



REVISIONS

TOTAL

PROJECT IDENTIFICATION NUMBER	18-28-013-010
PROJECT NUMBER	NHSX-013-2(42)--3H-28
R.O.W. PROJECT NUMBER	NHSN-013-2(42)--2R-28

LETTING DATE  
Oct 17 2023

UNKNOWN PAVEMENT - GRADE AND REPLACE  
NHSX-013-2(42)--3H-28

DELAWARE COUNTY

STA. 1513+75.00  
END CONSTRUCTION  
Ref. Loc. 53.7

PLANS OF PROPOSED IMPROVEMENT ON THE

# PRIMARY ROAD SYSTEM DELAWARE COUNTY

## UNKNOWN PAVEMENT - GRADE AND REPLACE

Honey Creek 0.2 mi N of Co Rd D13 to S Jct IA 3

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

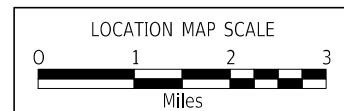
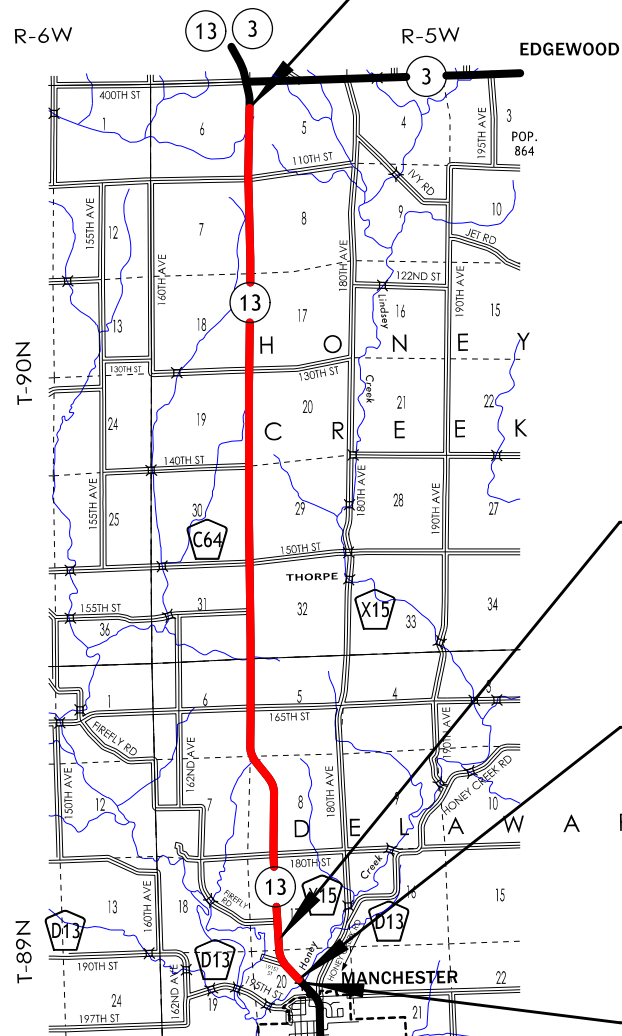


H Sheets

STA. 1051+00.00  
END RESURFACING  
BEGIN PAVING

STA. 1025+61.75  
BEGIN CONSTRUCTION  
BEGIN RESURFACING  
Ref. Loc. 44.0

FHWA # 23721



INDEX OF SHEETS	
No.	DESCRIPTION
<b>A Sheets</b>	<b>Title Sheets</b>
A.1	Title Sheet
<b>B Sheets</b>	<b>Typical Cross Sections and Details</b>
B.1 - 5	Typical Cross Sections and Details
<b>D Sheets</b>	<b>Mainline Plan and Profile Sheets</b>
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 18	IA 13
<b>E Sheets</b>	<b>Side Road Plan and Profile Sheets</b>
* E.1	Firefly Road
* E.2	185th Street
* E.3	180th Street
* E.4 - 5	165th Street
* E.6	155th Street
* E.7 - 8	C-64
* E.9	140th Street
* E.10 - 11	130th Street
* E.12 - 13	110th Street
<b>G Sheets</b>	<b>Survey Sheets</b>
G.1	Reference Ties and Bench Marks
G.2 - 6	Control Point Map & Horizontal & Vertical Control
<b>J Sheets</b>	<b>Traffic Control and Staging Sheets</b>
* J.1	Detour
<b>W Sheets</b>	<b>Mainline Cross Sections</b>
W.1 - 330	Mainline Cross Sections
<b>X Sheets</b>	<b>Side Road Cross Sections</b>
X.1	Side Road Cross Sections

DESIGN DATA RURAL			
2023	AADT	3000	V.P.D.
2043	AADT	3500	V.P.D.
20	--	DHV	--
			V.P.H.
			TRUCKS
			8 %
			Total
			Design ESALS
			--

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

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 12/3/2021



### Full Depth PCC Combination Shoulder

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

STATION TO STATION		(P) Feet	(G) Feet
1051+00.00	1085+50.00	6	4
1089+00.00	1105+00.00	6	4
1112+50.00	1216+00.00	6	4
1218+00.00	1234+25.00	6	4
1236+75.00	1281+75.00	6	4
1284+75.00	1311+25.00	6	4
1313+50.00	1326+00.00	6	4
1329+25.00	1354+25.00	6	4
1356+50.00	1377+75.00	6	4
1378+75.00	1440+00.00	6	4
1443+00.00	1446+00.00	6	4
1448+00.00	1511+25.00	6	4
1513+50.00	1513+75.00	6	4

### Curbed Shoulder

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

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

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
1085+50.00	1089+00.00	11	4" Sloped
1105+00.00	1112+50.00	11	4" Sloped
1216+00.00	1218+00.00	11	4" Sloped
1234+25.00	1236+75.00	11	4" Sloped
1281+75.00	1284+75.00	11	4" Sloped
1311+25.00	1313+50.00	11	4" Sloped
1326+00.00	1329+25.00	11	4" Sloped
1354+25.00	1356+50.00	11	4" Sloped
1377+50.00	1378+75.00	11	4" Sloped
1440+00.00	1443+00.00	11	4" Sloped
1446+00.00	1448+00.00	11	4" Sloped
1511+25.00	1513+50.00	11	4" Sloped

### Auxiliary Lane

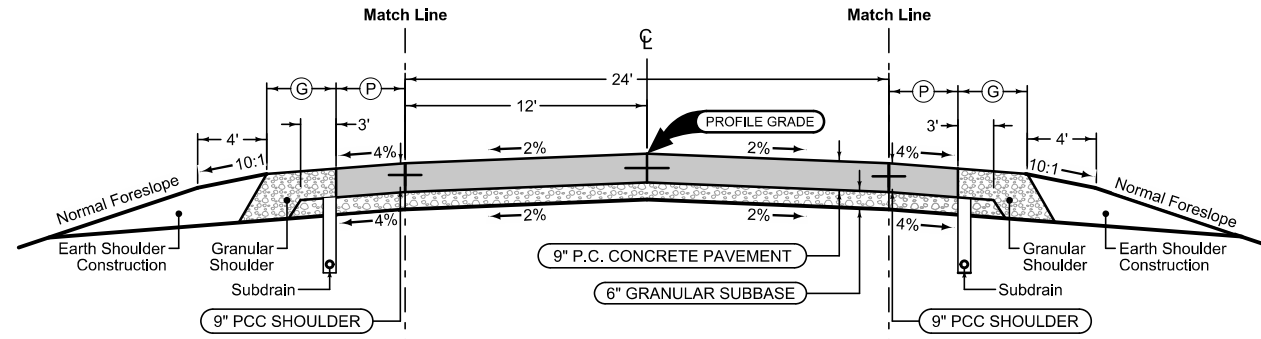
Longitudinal joint: L or KT  
 Transverse joint: Match Mainline

STATION TO STATION		(AL) Feet
1252+15.5	1260+91.7	0-16
1260+91.7	1266+61.3	16
1266+61.3	1275+37.5	16-0

### Full Depth PCC Combination Shoulder

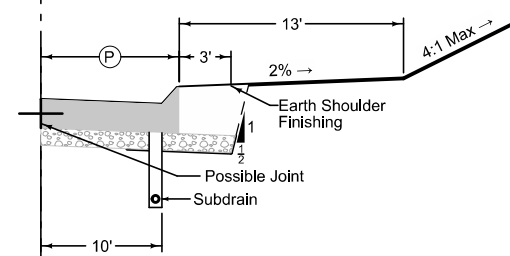
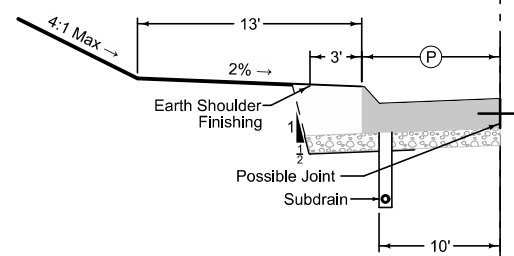
Shoulder Jointing:  
 Longitudinal joint: L-2 or KT-2  
 Transverse joints: C at 17' spacing

STATION TO STATION		(P) Feet	(G) Feet
1252+15.5	1275+37.5	6	4



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

STATION TO STATION	
1051+00	1513+75



### Full Depth PCC Combination Shoulder

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

STATION TO STATION		(P) Feet	(G) Feet
1051+00.00	1167+50.00	6	4
1171+00.00	1292+50.00	6	4
1297+00.00	1377+00.00	6	4
1380+00.00	1402+62.96	6	4
1404+80.00	1423+00.00	6	4
1429+00.00	1445+50.00	6	4
1448+50.00	1513+75.00	6	4

### Curbed Shoulder

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

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

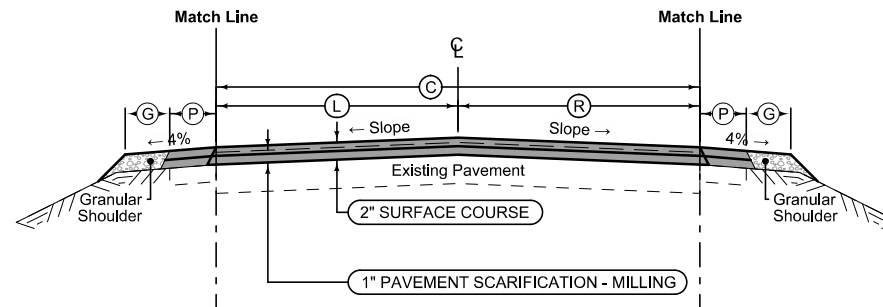
BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
1167+50.00	1171+00.00	11	4" Sloped
1292+50.00	1297+00.00	11	4" Sloped
1377+00.00	1380+00.00	11	4" Sloped
1402+62.96	1404+80.00	11	4" Sloped
1423+00.00	1429+00.00	11	4" Sloped
1445+50.00	1448+50.00	11	4" Sloped

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

## IOWA 13 PCC PAVING

**Combination Shoulder**

3R_Shldr_C_Overlay_04-19-11			
STATION TO STATION		(P) Feet	(G) Feet
1025+61.75	1051+00.00	6	0



**Combination Shoulder**

3R_Shldr_C_Overlay_04-19-11			
STATION TO STATION		(P) Feet	(G) Feet
1025+61.75	1051+00.00	6	0

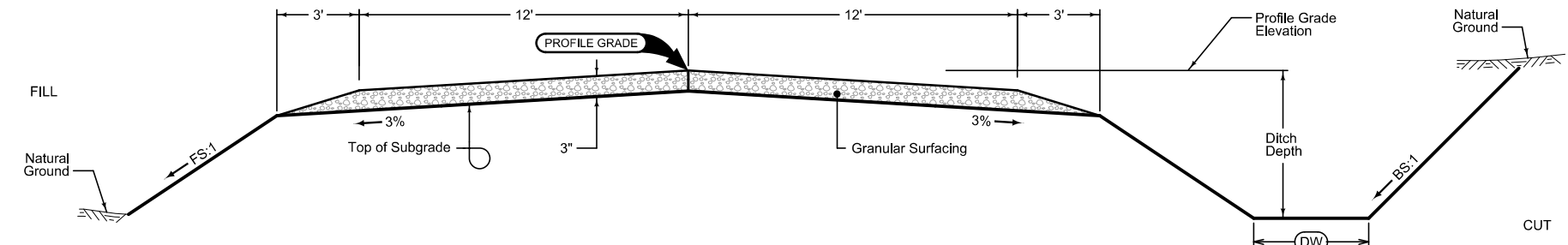
3R_MillingOverlay_04-19-11					
STATION TO STATION		(C) Feet	(L) Feet	(R) Feet	Pavement Scarification SY
1025+61.75	1051+00.00	24	12	12	6,768.67

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

**IOWA 13 MILLING / RESURFACING**

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		FS	BS	(DW) Feet
180th Street	6099+45.37	6100+45.37	x	x	x

G\_2\_GradeGran  
10-17-17

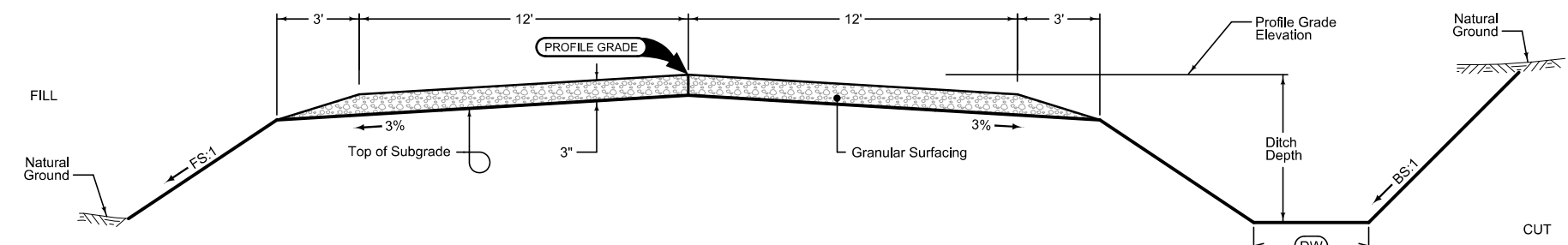


**GRADING AND GRANULAR SURFACING**  
**20' Width**

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.  
  
See plan & profile sheets and cross sections for additional details of ditches and backslopes.

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		FS	BS	(DW) Feet
155th Street	8235+95.95	8236+39.98	x	x	x
140th Street	10315+99.32	10316+14.87	x	x	x
130th Street	11367+70.00	11369+07.95	x	x	x
130th Street	11370+43.43	11371+70.00	x	x	x
110th Street	12474+15.00	12474+26.13	x	x	x
110th Street	12475+60.95	12475+90.01	x	x	x

G\_2\_GradeGran  
10-17-17

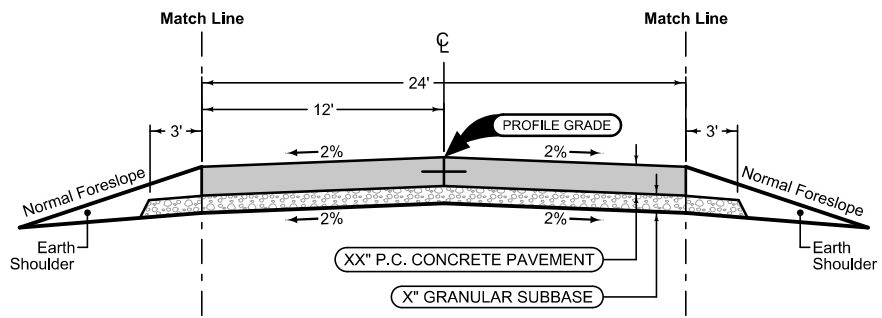


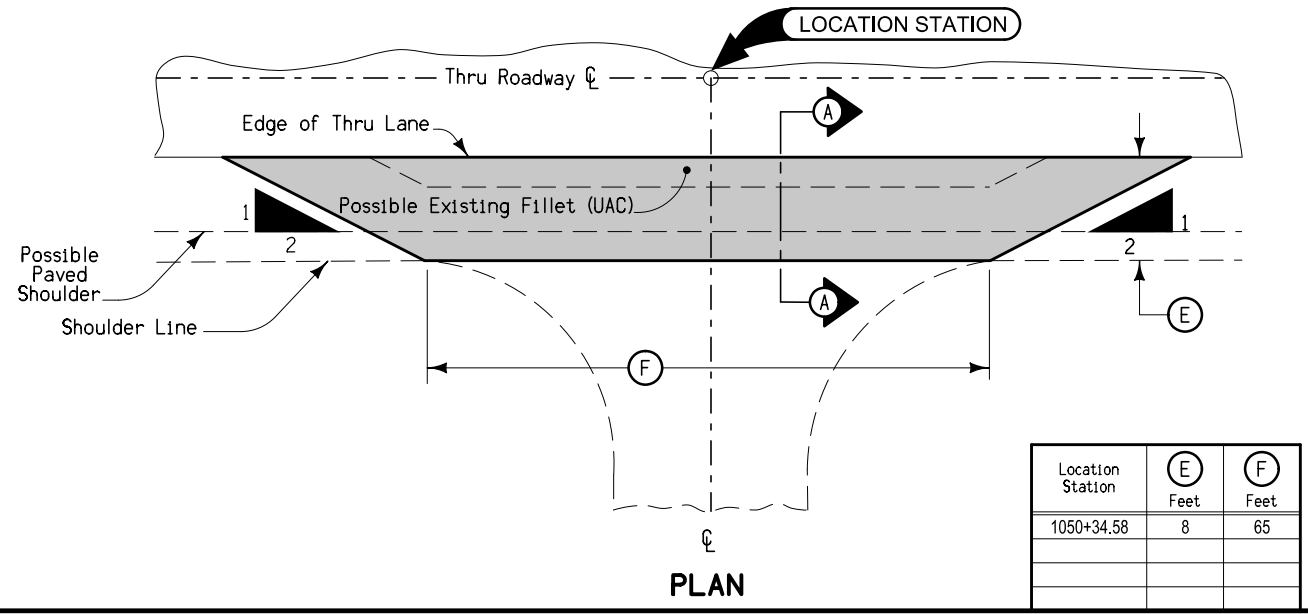
**GRADING AND GRANULAR SURFACING**  
**24' Width**

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.  
  
See plan & profile sheets and cross sections for additional details of ditches and backslopes.

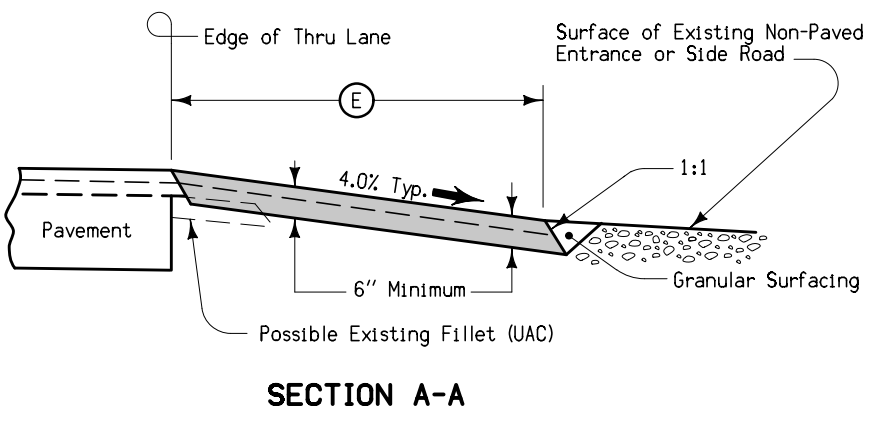
LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		FS	BS	(DW) Feet
Firefly Road	4061+74.90	4062+46.73	x	x	x
185th Street	5069+47.76	5070+08.48	x	x	x
180th Street	6098+56.32	6099+11.32	x	x	x
165th Street	7182+41.00	7183+71.35	x	x	x
165th Street	7183+96.99	7184+55.27	x	x	x
155th Street	8236+39.98	8236+92.98	x	x	x
150th Street / C64	9261+80.00	9263+64.69	x	x	x
150th Street / C64	9263+88.29	9265+21.84	x	x	x
140th Street	10316+14.87	10316+67.87	x	x	x
130th Street	11369+07.95	11369+61.95	x	x	x
130th Street	11369+88.43	11370+43.43	x	x	x
110th Street	12474+26.13	12474+95.13	x	x	x
110th Street	12475+07.95	12475+60.95	x	x	x

SR\_PAVE  
NEW



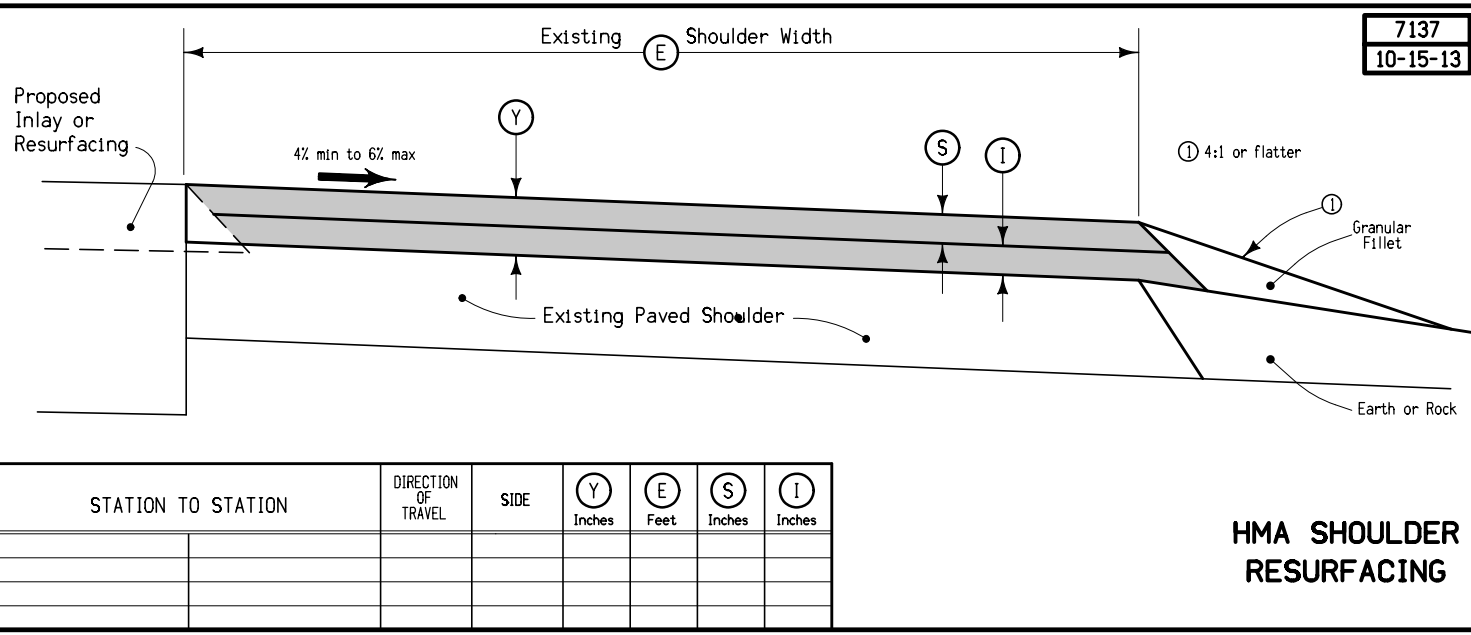


Location Station	(E) Feet	(F) Feet
1050+34.58	8	65



Special shaping of existing surface prior to placement of fillet may be required by the Engineer and is incidental to other work on the project.  
Quantities included with mainline quantities.

**FILLET FOR NON-PAVED ENTRANCES OR SIDE ROADS**



7137  
10-15-13

STATION TO STATION	DIRECTION OF TRAVEL	SIDE	(Y)	(E)	(S)	(I)
			Inches	Feet	Inches	Inches

**HMA SHOULDER RESURFACING**

### 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)
- Earth Dam or Dike (Proposed)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Proposed Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Proposed Intake
- Existing Utility Access (Manhole)
- Proposed Utility Access (Manhole)
- Fire Hydrant
- Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish
- Water Hook Up
- Radio Tower
- Tower Anchor
- Guardrail (Beam or Cable)
- Guard Post (one or two)
- Guard Post (over two)
- Filler Pipe
- Gas Valve
- Water Valve
- Speed Limit Sign
- Mile Marker Post
- Sign
- Traffic Signal Control Box
- Rail Road Signal Control Box
- Telephone Switch Box
- Electric Box

### UTILITY LEGEND

- EL1D Iowa DOT - Quality D**  
Jason Dale  
800 Lincoln Way  
Ames IA, 50010  
(515) 239-1995  
Jason.Dale@iowadot.us
- EL2D Alliant Energy - Quality D**  
Mary Montgomery  
PO Box 351  
Cedar Rapids IA, 52406-9874  
(319) 786-4768  
MaryMontgomery@alliantenergy.com
- FO2D Iowa Communications Network - Quality D**  
Mike Broderick  
400 E 14th St, Grimes State Office Building  
Des Moines IA, 50319  
(515) 725-4610  
Mike.Broderick@iowa.gov
- GL1D Black Hills - Quality D**  
Brad Fleming  
1102 E. First St.  
Papillion NE, 68046-7641  
(402) 221-2714  
brad.fleming@blackhillscorp.com
- TL1D Windstream Communications - Quality D**  
Steve Kness  
1450 N. Center Pt. Rd.  
Hiawatha IA, 52233  
(319) 790-7678  
stephen.kness@windstream.com
- WL1D Central Iowa Water Association - Quality D**  
Matt Mahler  
1351 Iowa Speedway Drive  
Newton IA, 50208  
(800) 400-6066  
mmahler@irua.net

### PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING		Design Color No.
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

### PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

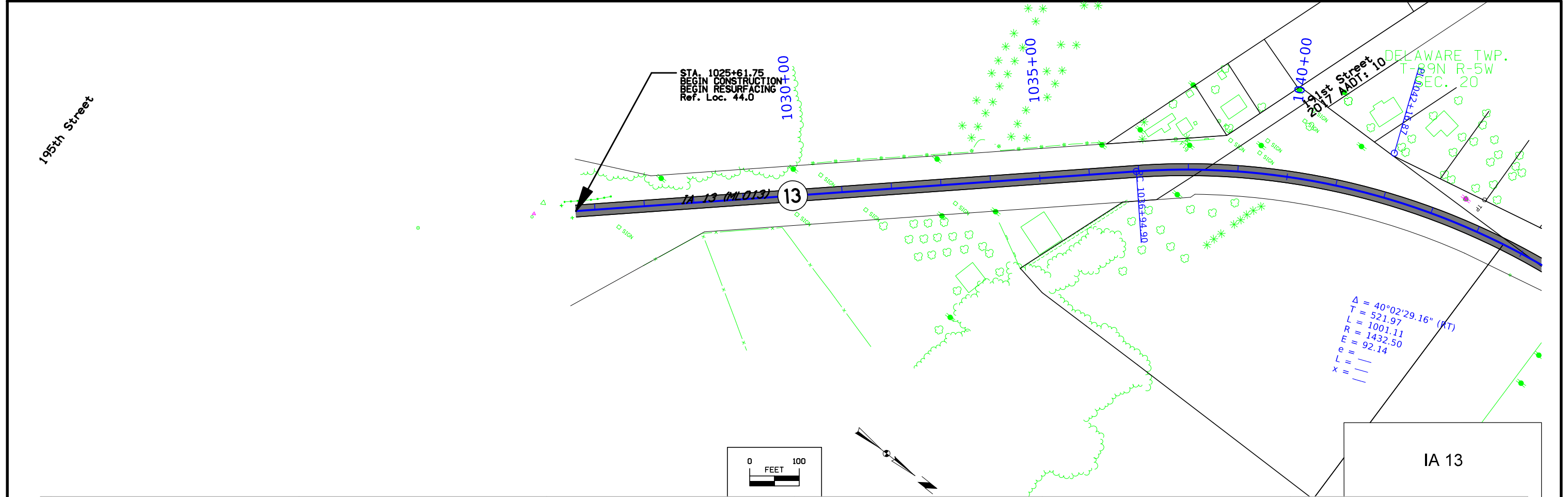
LINEWORK		Design Color No.
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

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

- ### RIGHT-OF-WAY LEGEND
- Proposed Right-of-Way
  - Existing Right of Way
  - Existing and Proposed Right-of-Way
  - Easement and Existing Right-of-Way
  - Easement (Temporary)
  - Easement
  - Access Control
  - Property Line

## PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

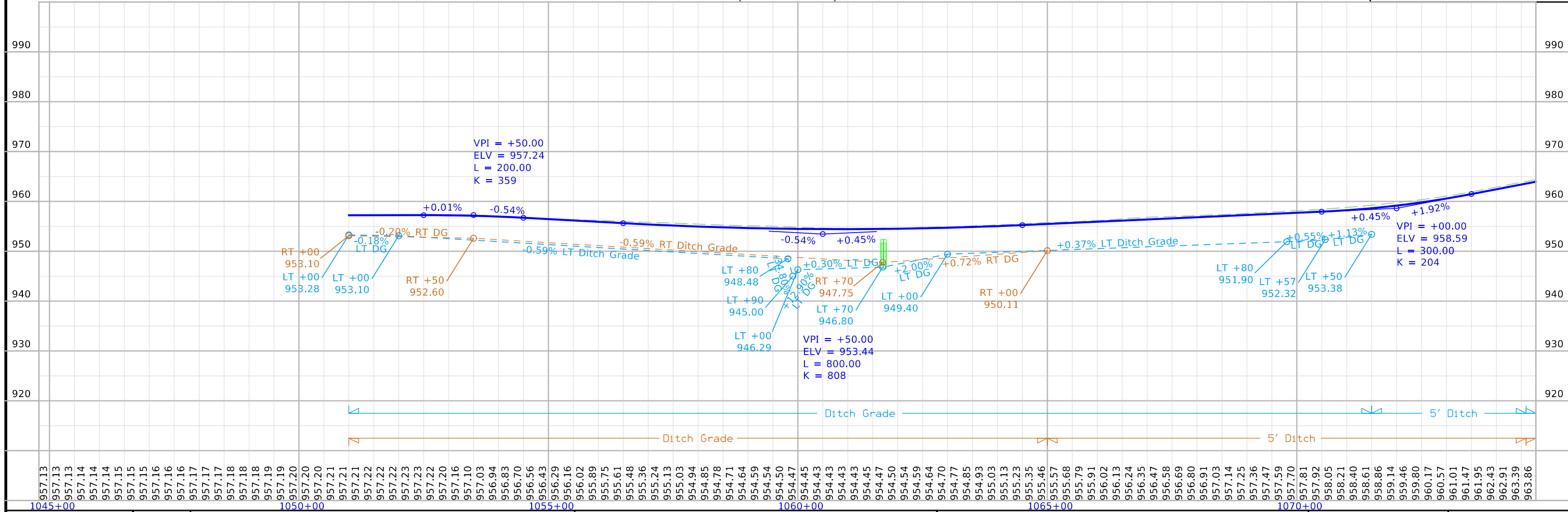
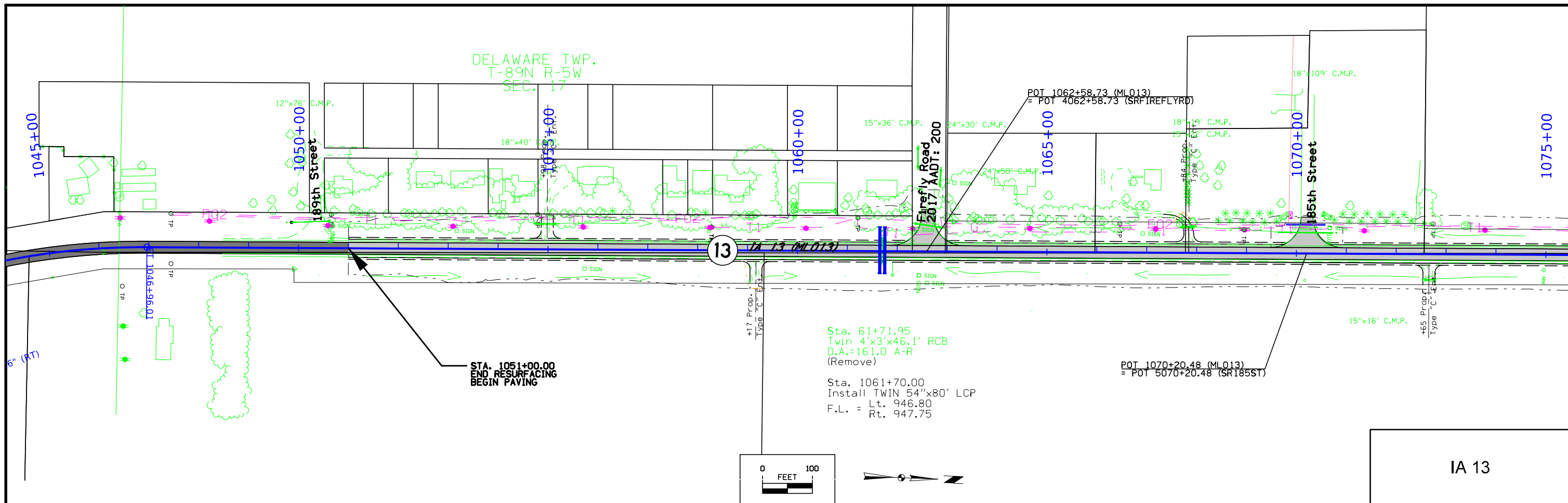
(COVERS SHEET SERIES D, E, F, & K)



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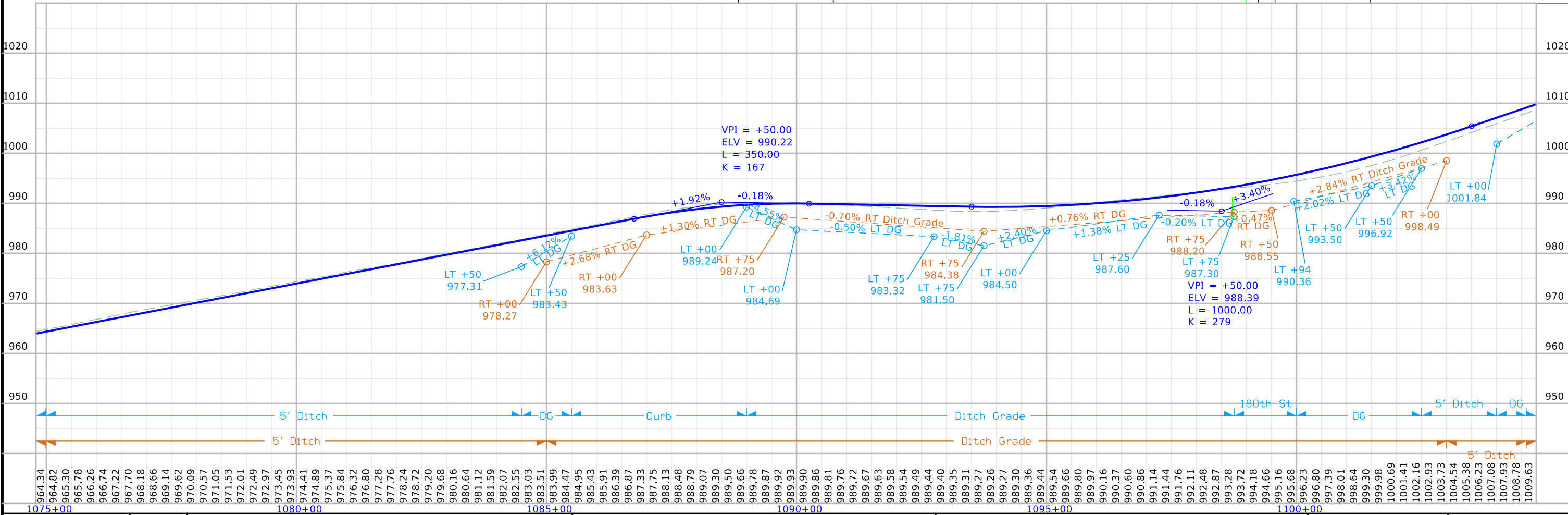
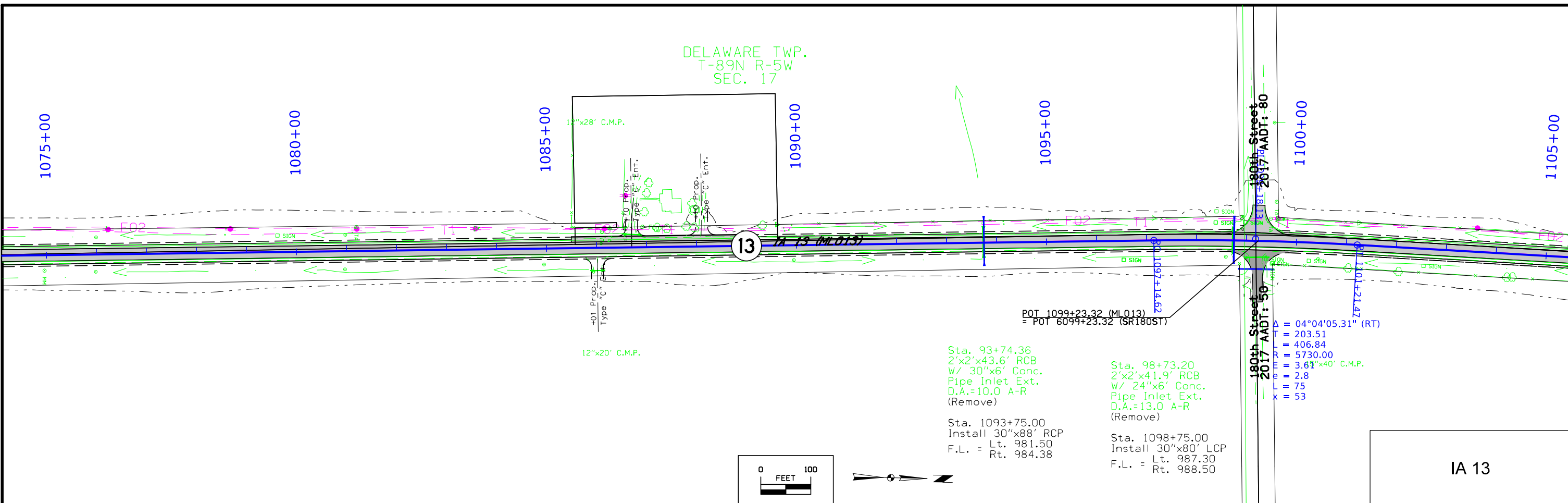
1015+00	1020+00	1025+00	1030+00	1035+00	1040+00
FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.2



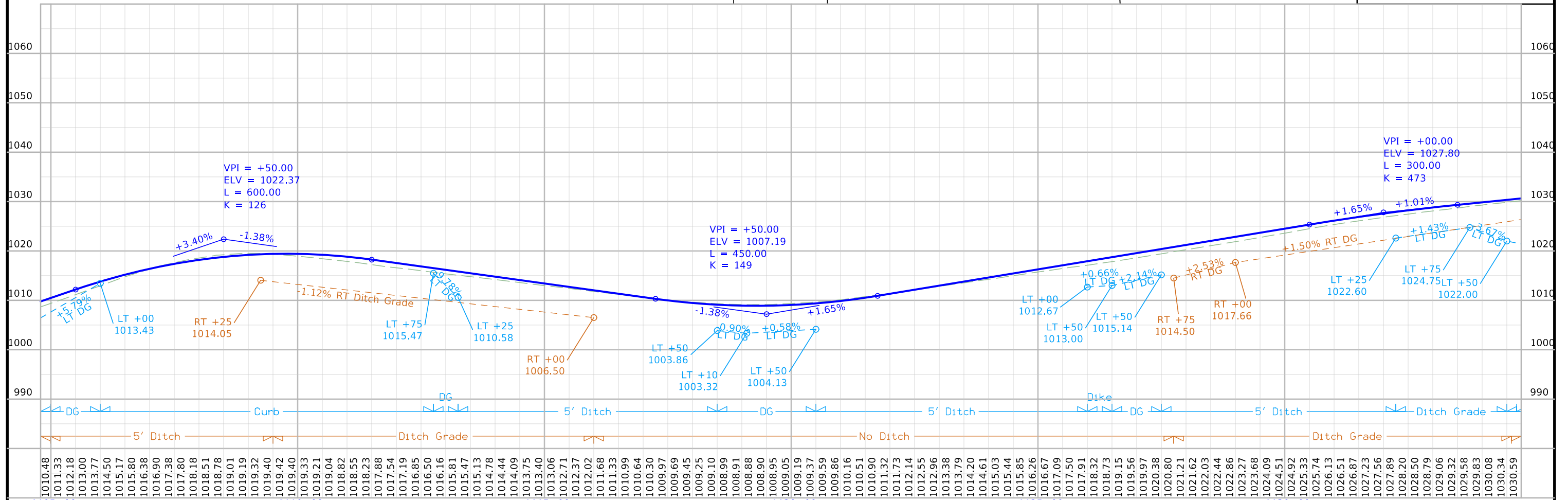
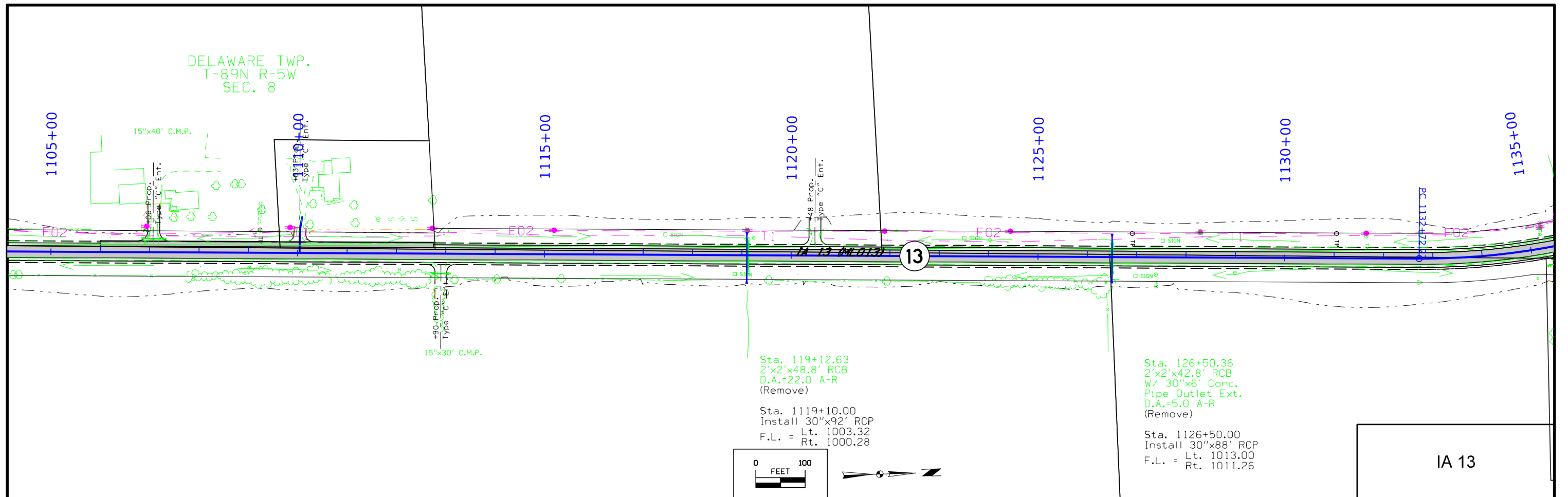


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Strum \ Prindle \ McNamara			NHSX-013-2(42)--3H-28	D.3	

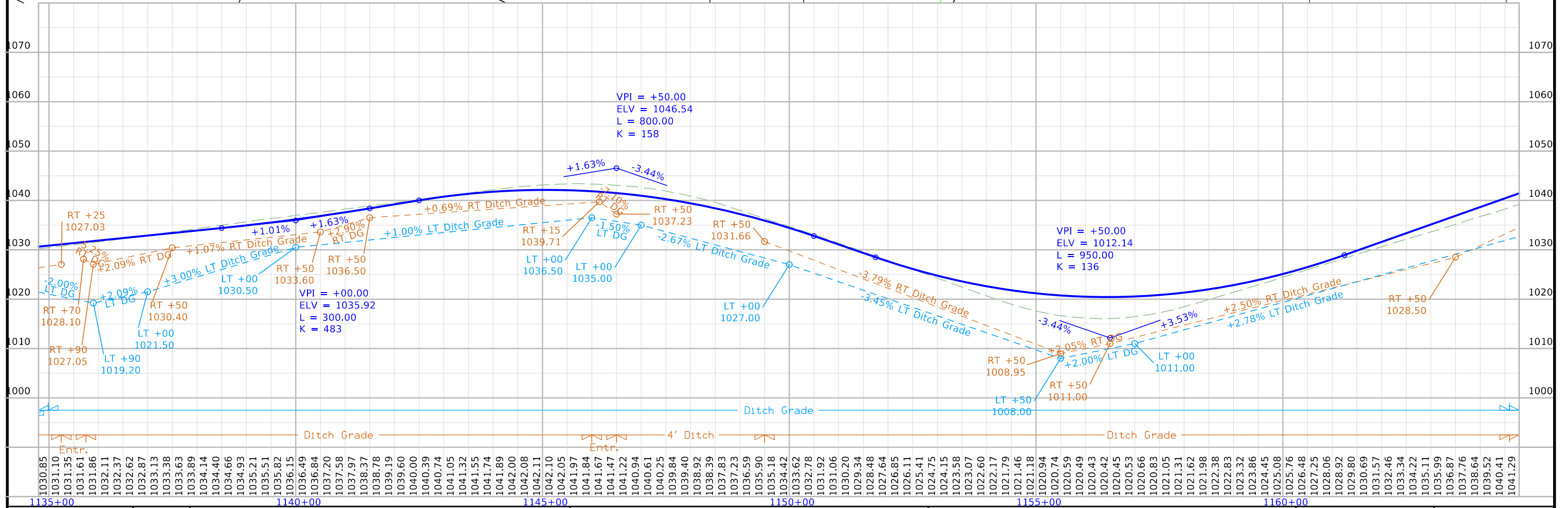
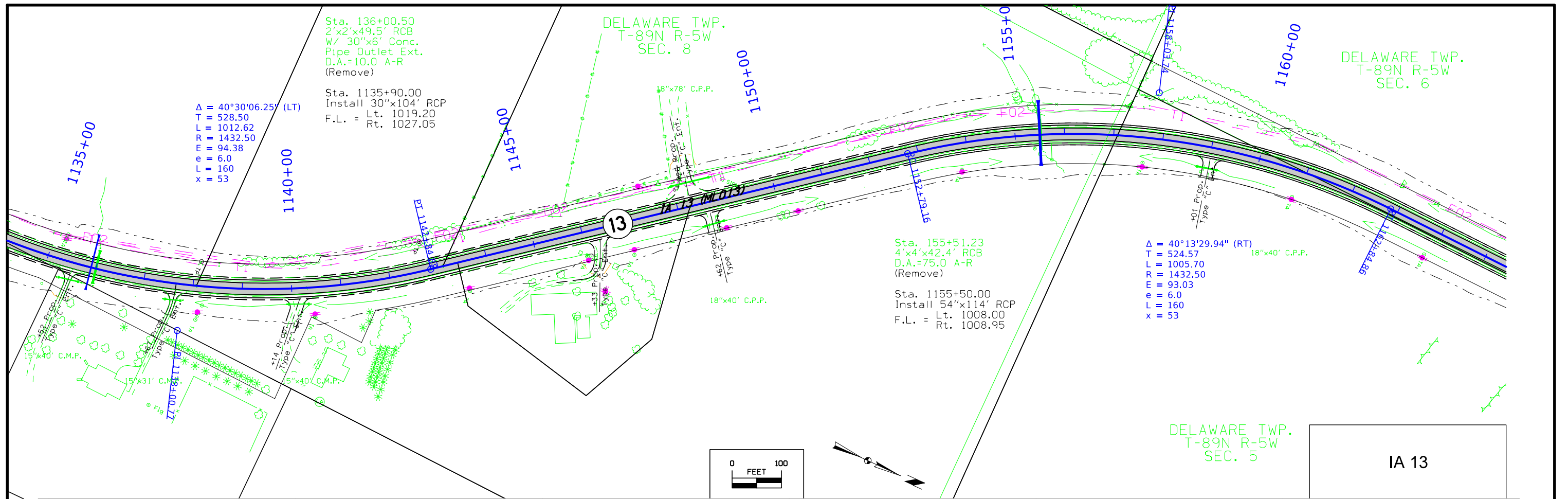
DELAWARE TWP.  
T-89N R-5W  
SEC. 17



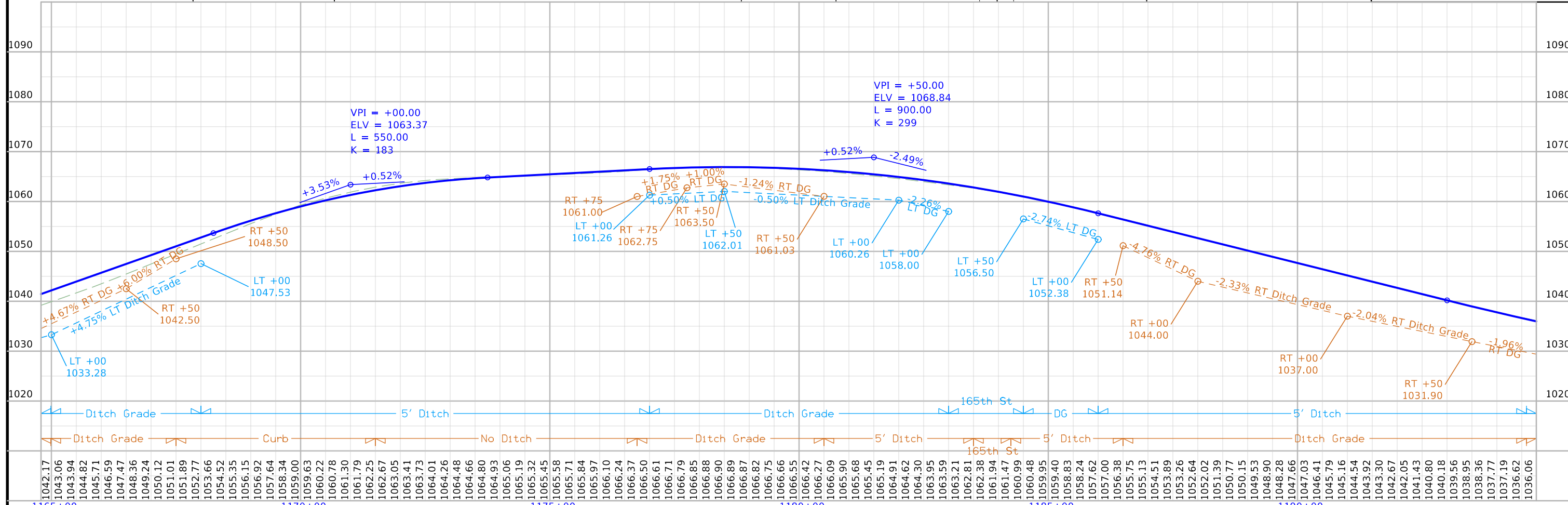
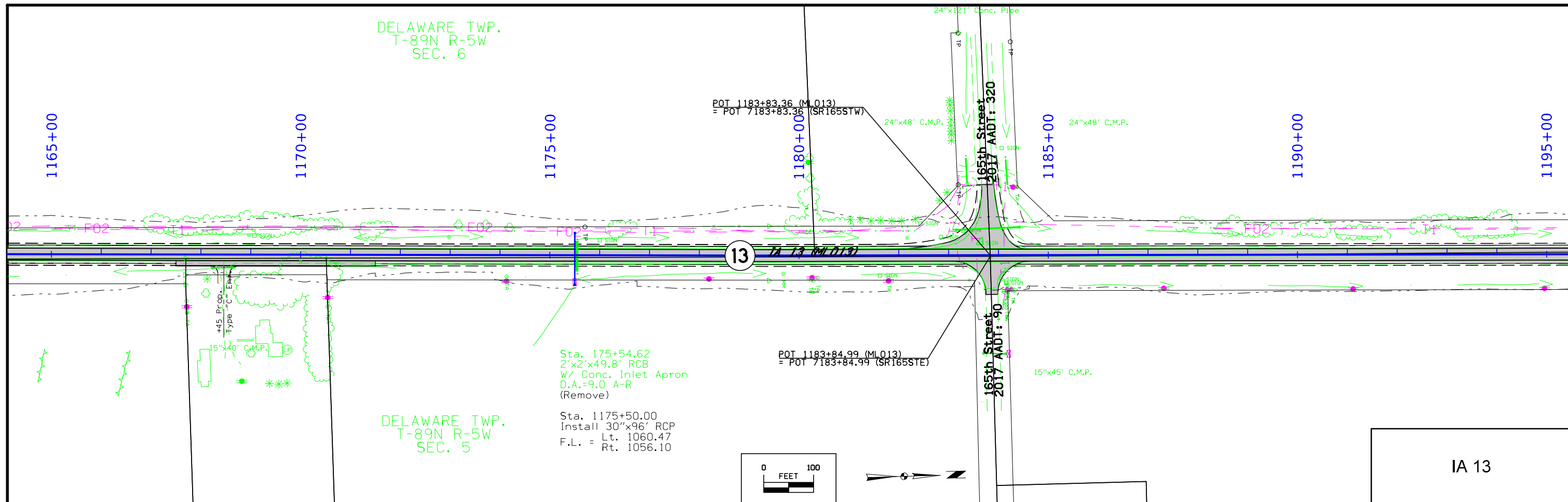
FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1075+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.4



1105+00	1110+00	1115+00	1120+00	1125+00	1130+00
FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.5
					REVISED



FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER	REVISED
1135+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.6	



FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1165+00	1170+00	1175+00	1180+00	1185+00	1190+00
Strum \ Prindle \ McNamara	DELWARE COUNTY			NHSX-013-2(42)--3H-28	D.7

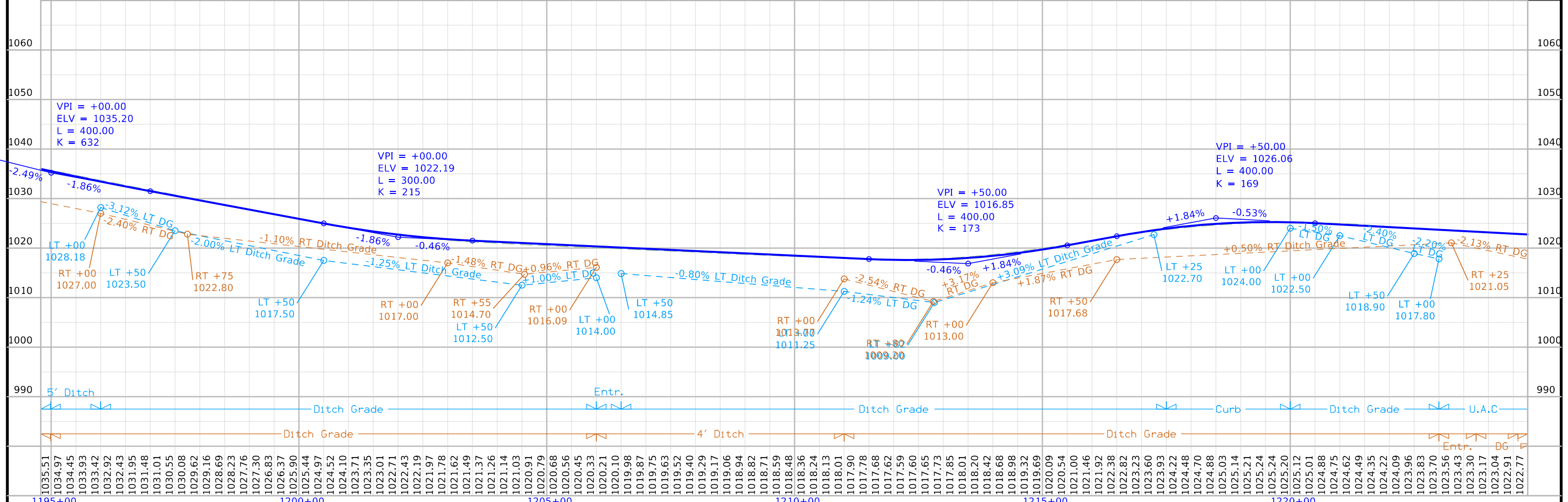
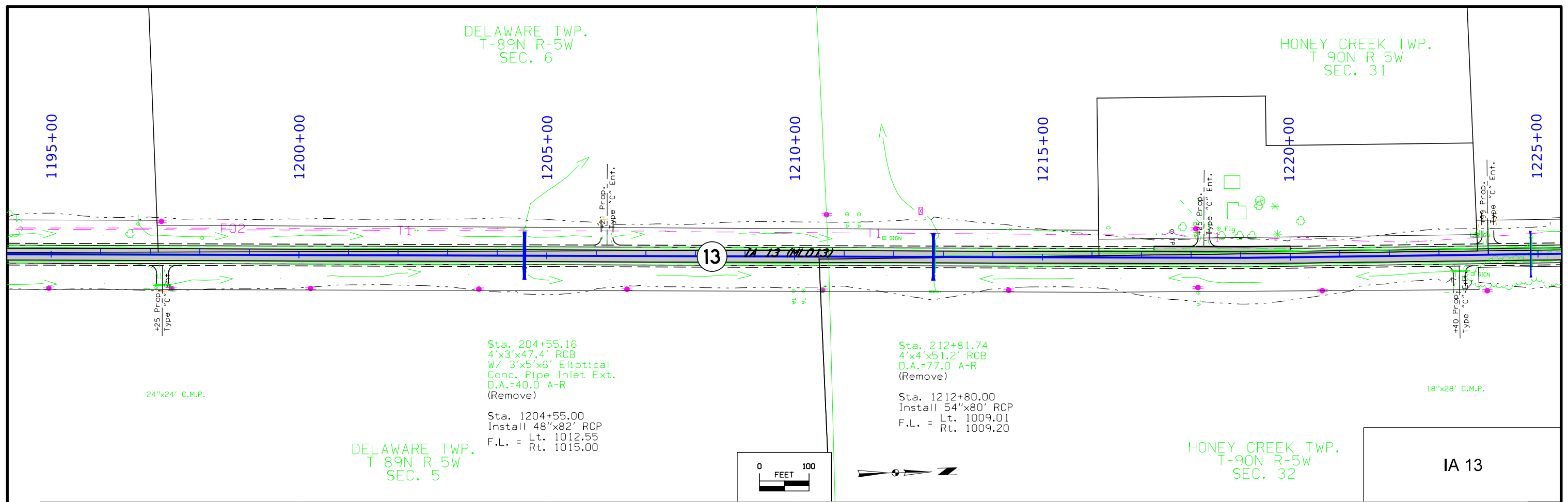
DELAWARE TWP.  
T-89N R-5W  
SEC. 6

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 31

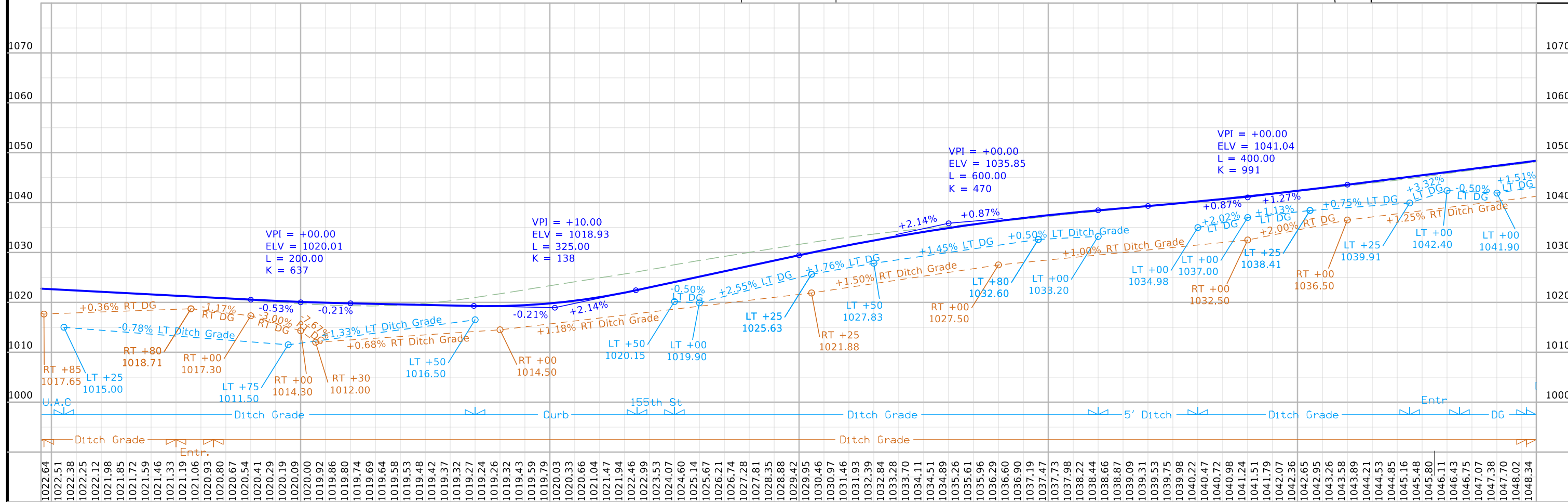
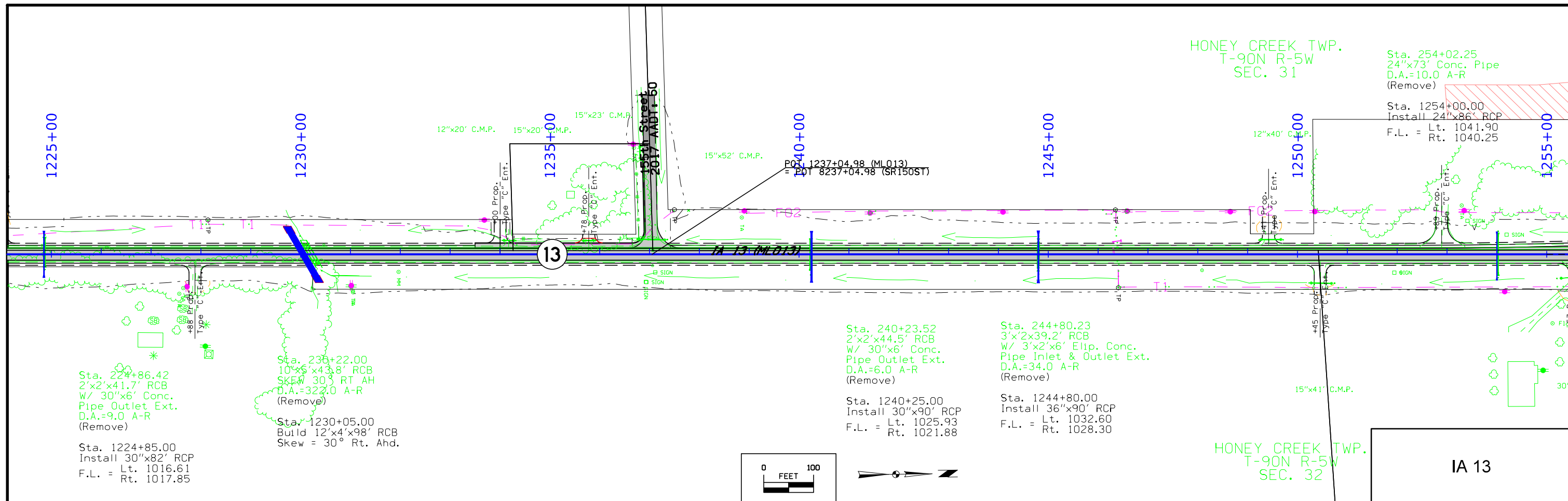
DELAWARE TWP.  
T-89N R-5W  
SEC. 5

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 32

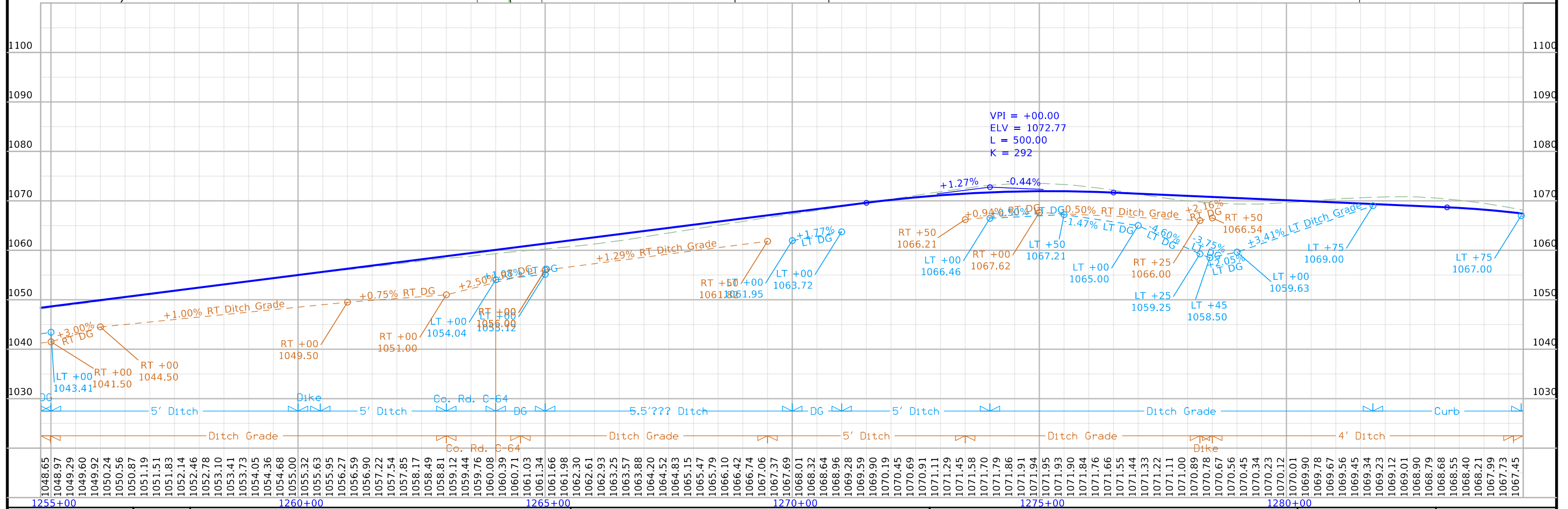
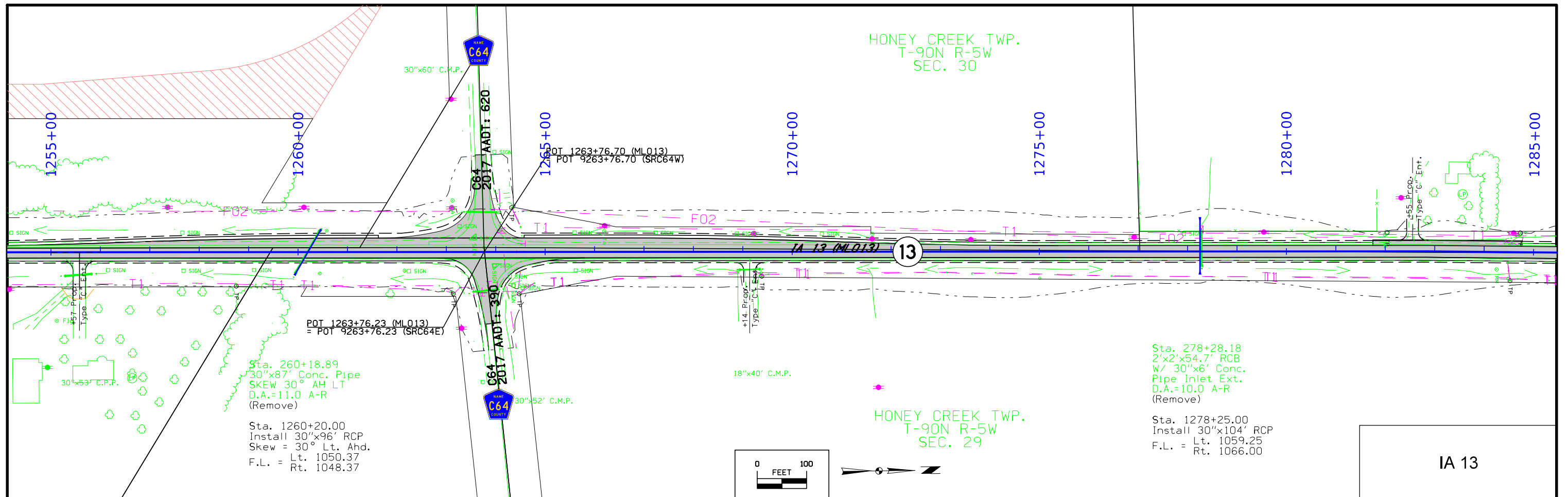
IA 13



1195+00	1200+00	1205+00	1210+00	1215+00	1220+00
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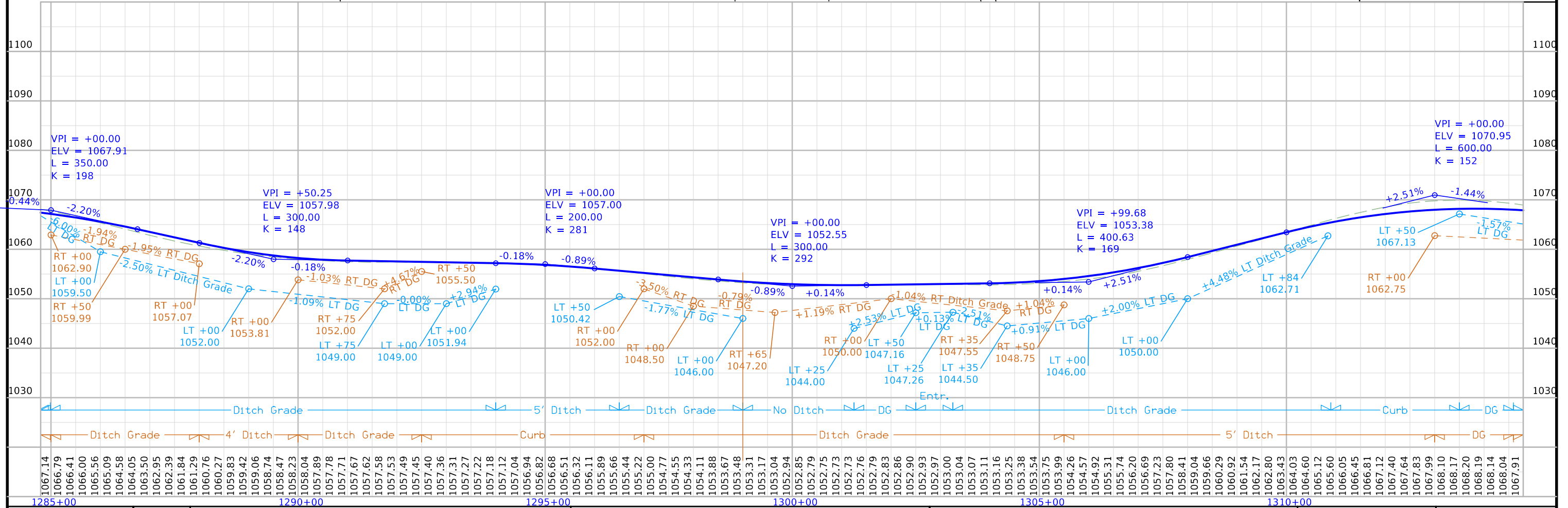
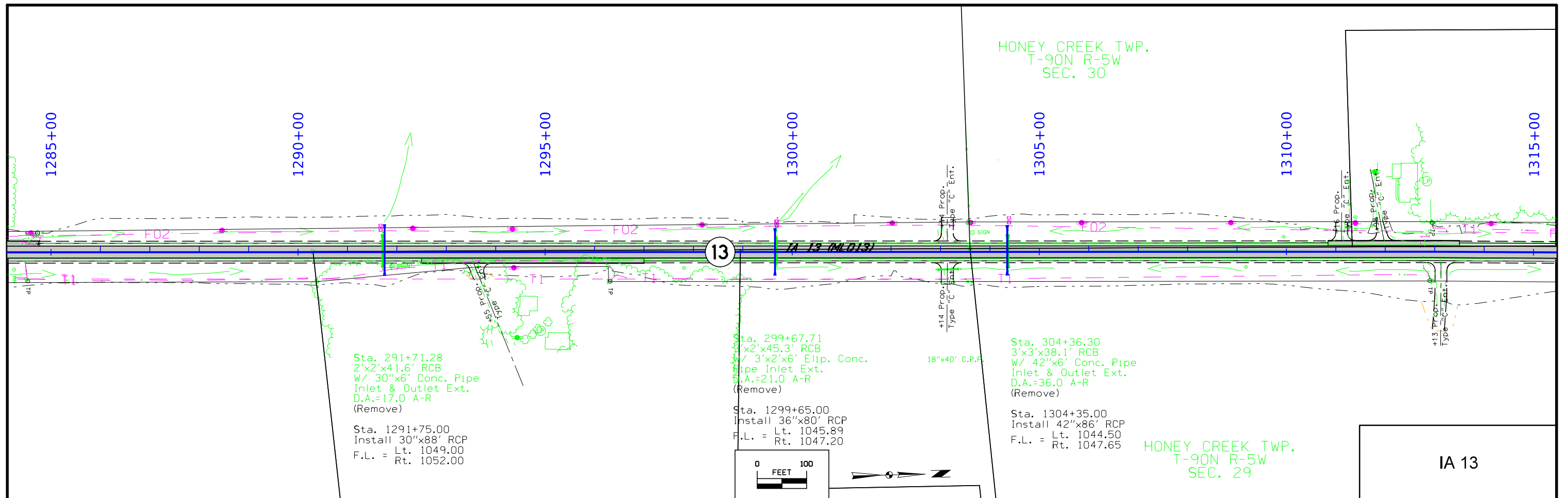


1225+00	1230+00	1235+00	1240+00	1245+00	1250+00
FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY		PROJECT NUMBER
		Strum \ Prindle \ McNamara			NHSX-013-2(42)--3H-28
					SHEET NUMBER
					D.9



FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1255+00	1260+00	1265+00	1270+00	1275+00	1280+00
Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28		D.10	





1285+00	1290+00	1295+00	1300+00	1305+00	1310+00	1315+00
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HONEY CREEK TWP.  
T-90N R-5W  
SEC. 19

Sta. 342+21.06  
2'x2'x41.3' RCB  
W/ 30"x6' Conc. Pipe  
Inlet & Outlet Ext.  
D.A.=12.0 A-R  
(Remove)

Sta. 1342+20.00  
Install 30"x94' RCP  
F.L. = Lt. 1084.31  
Rt. 1088.21

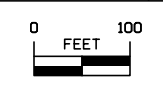
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 20

Sta. 320+60.75  
3'x2'x44.9' RCB  
W/ 36"x20"x6' Elip.  
Conc. Pipe Inlet Ext.  
D.A.=31.0 A-R  
(Remove)

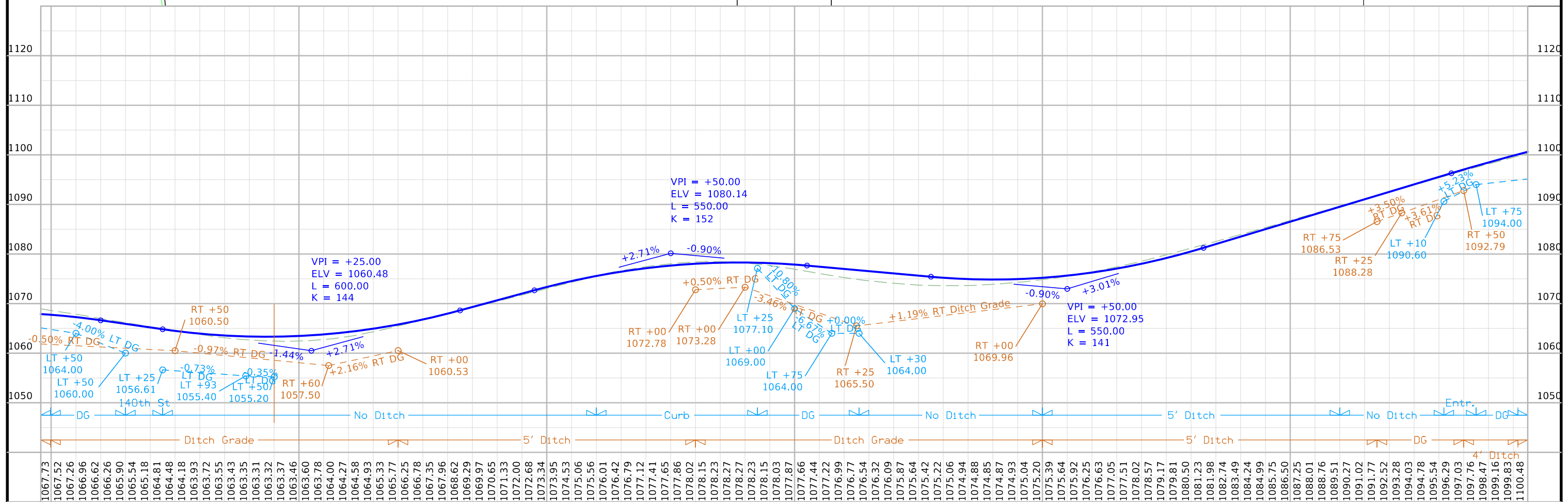
Sta. 1320+60.00  
Install 36"x90' RCP  
F.L. = Lt. 1054.94  
Rt. 1058.62

Sta. 331+28.77  
3'x2'x56.7' RCB  
D.A.=27.0 A-R  
(Remove)

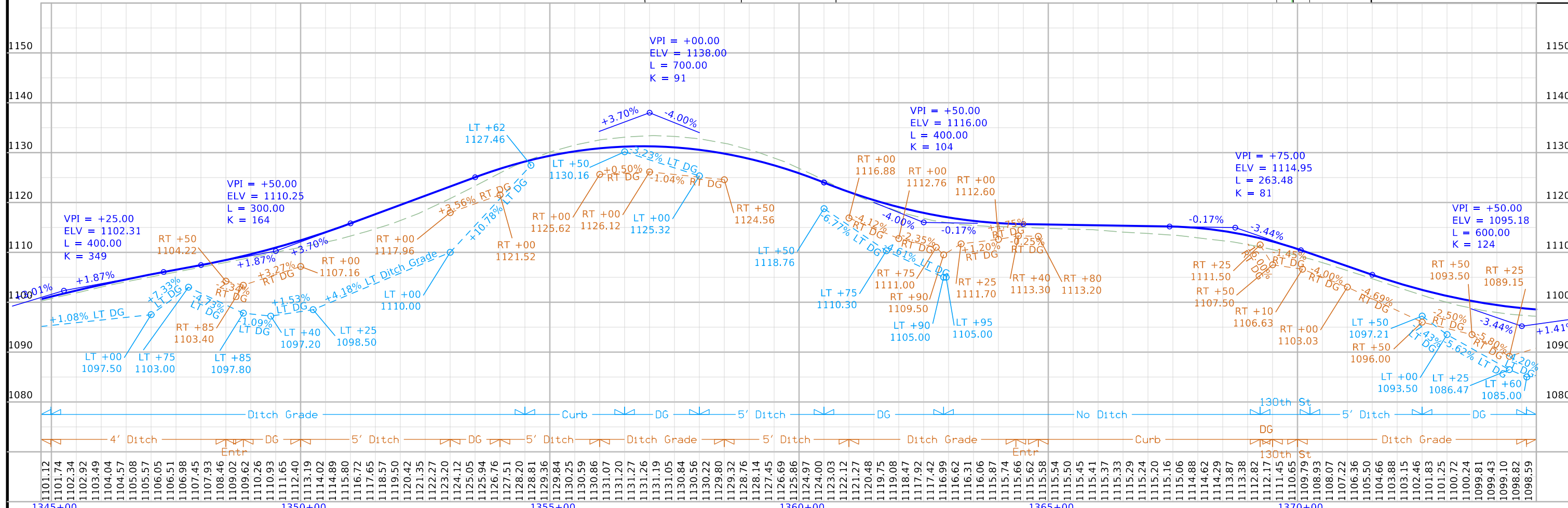
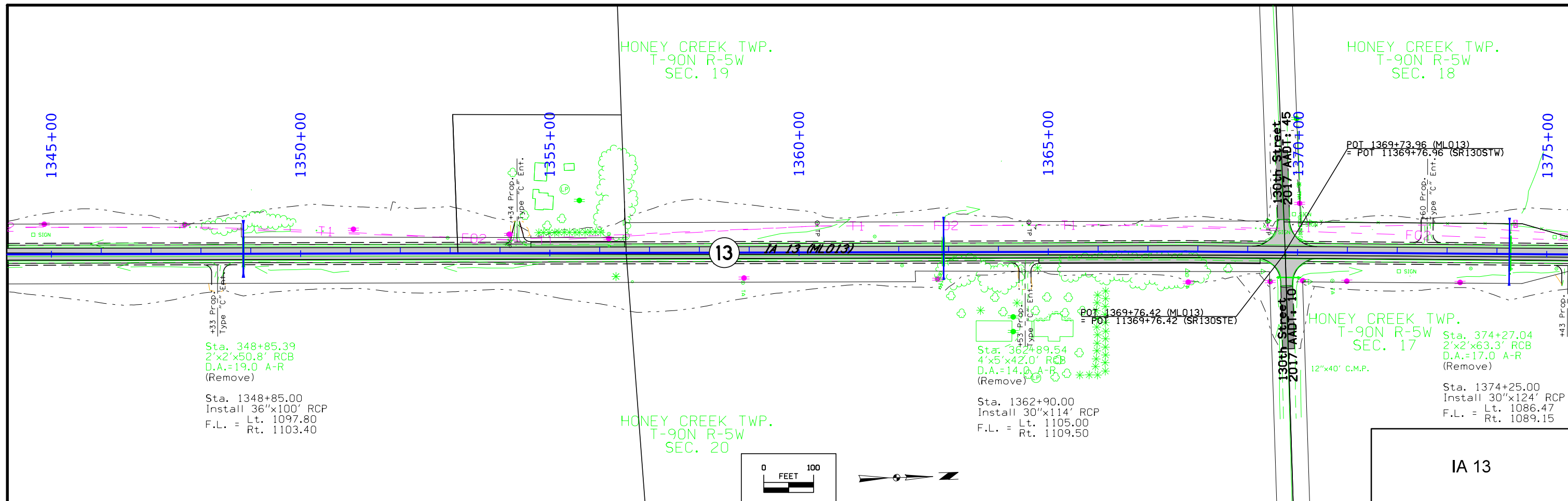
Sta. 1331+25.00  
Install 36"x112' RCP  
F.L. = Lt. 1063.86  
Rt. 1065.50



IA 13



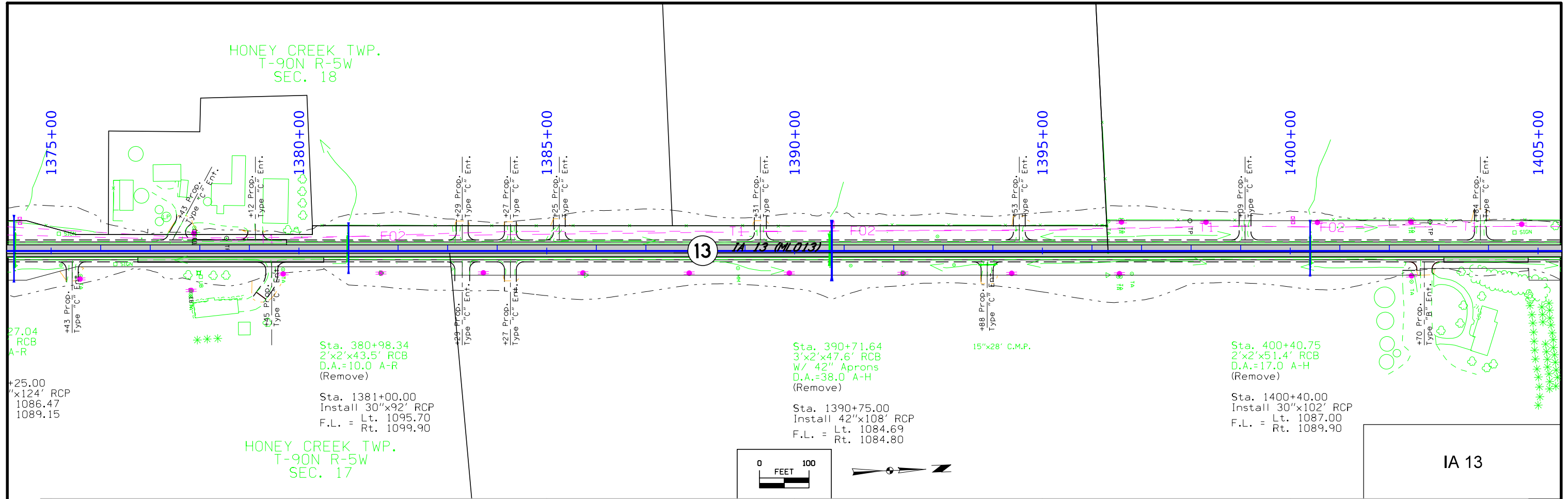
FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1315+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.12



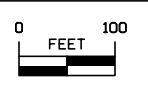
FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
12/2/2021	jstrum	Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.13

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 18

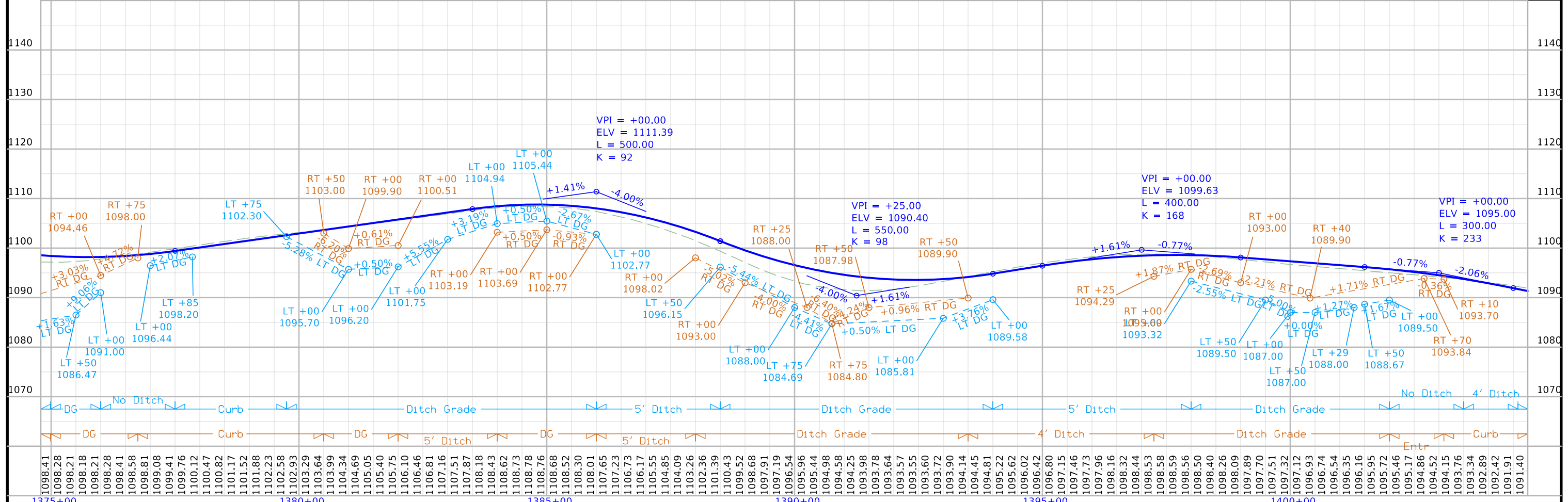
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 17



13



IA 13



FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1375+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.14

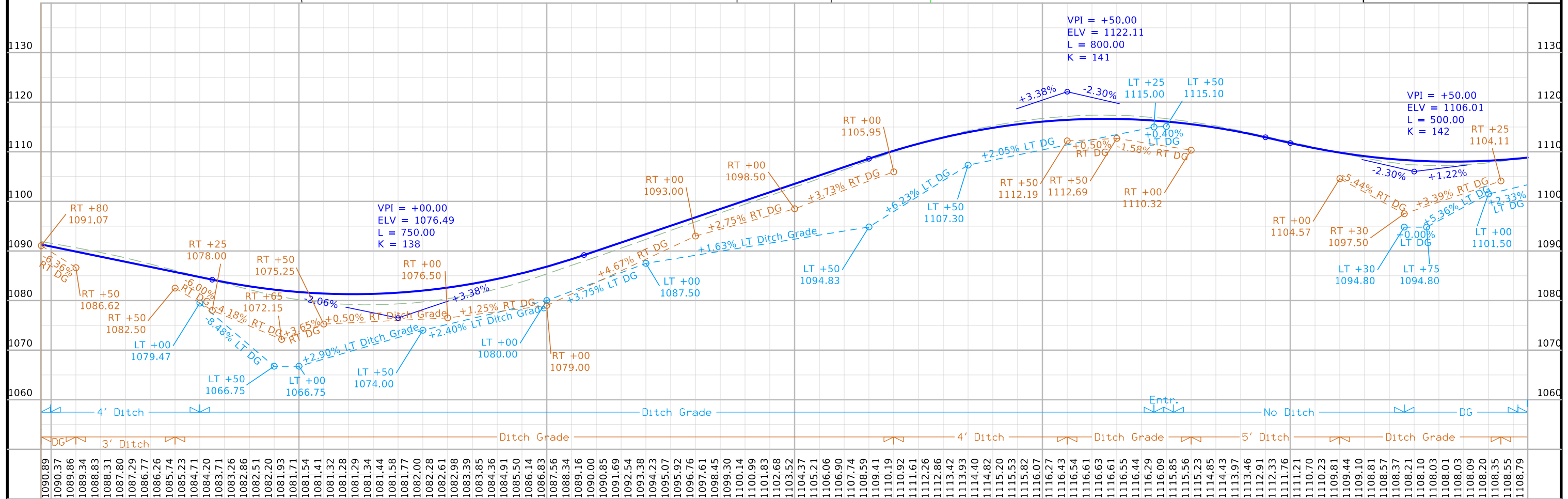
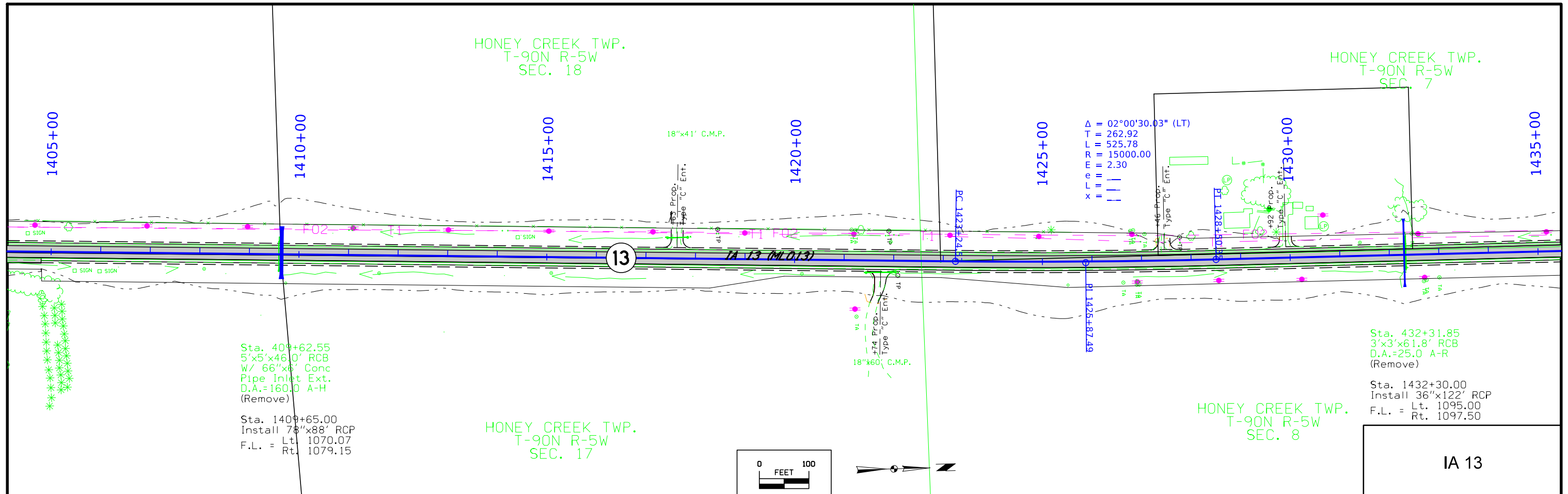
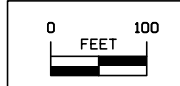
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 18

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 7

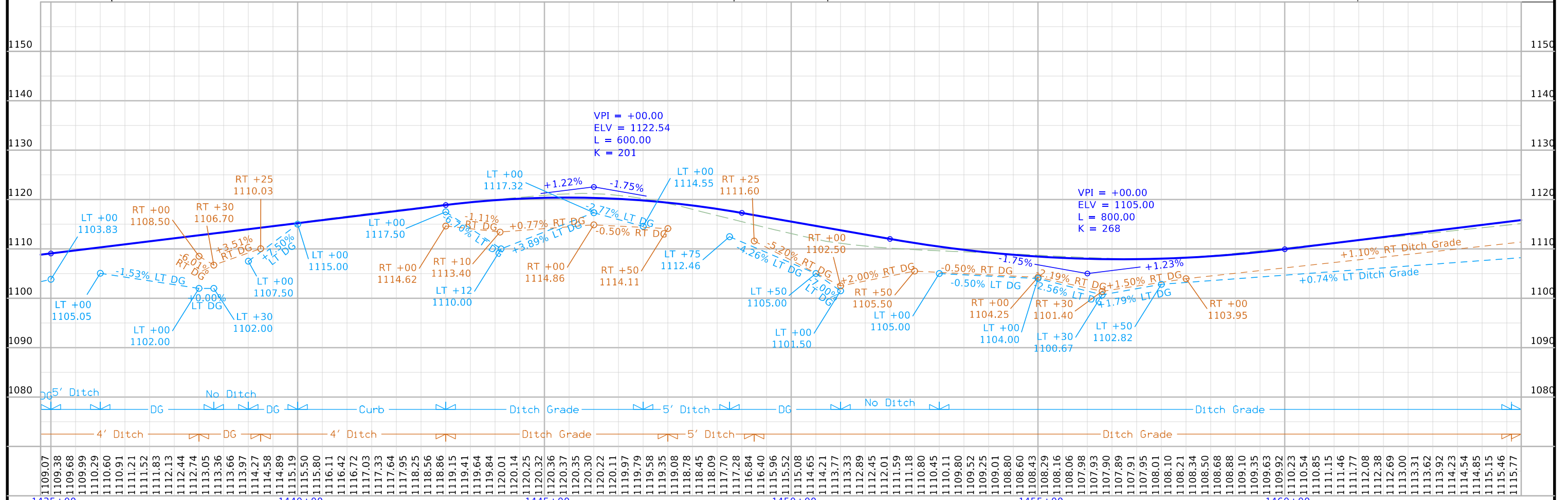
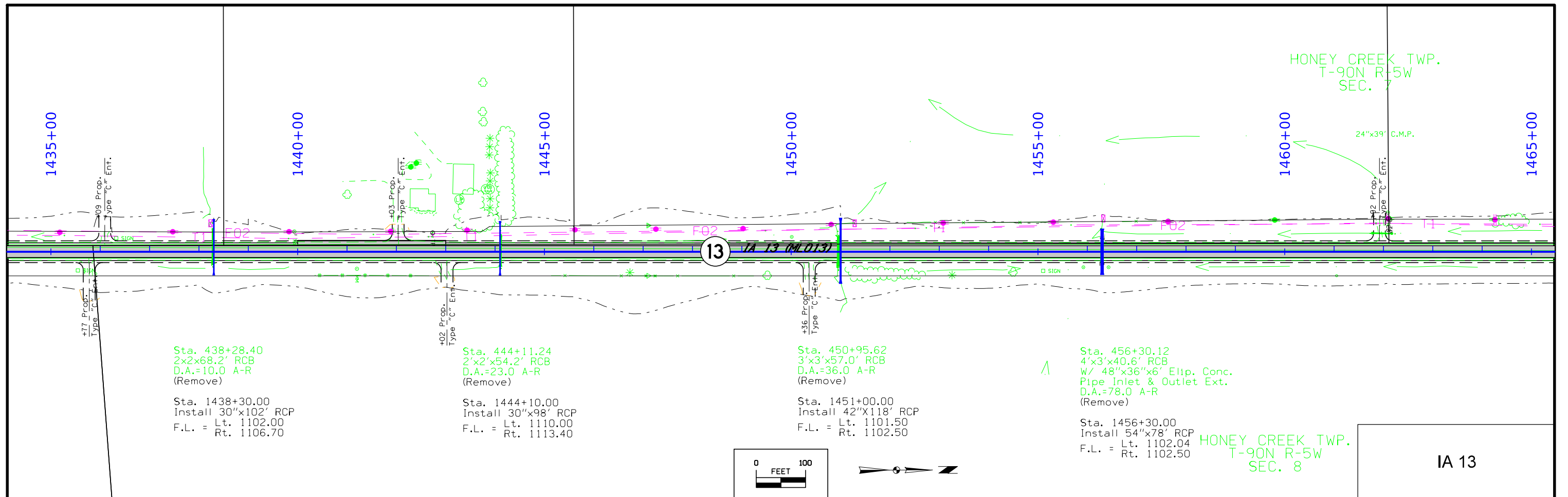
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 17

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 8

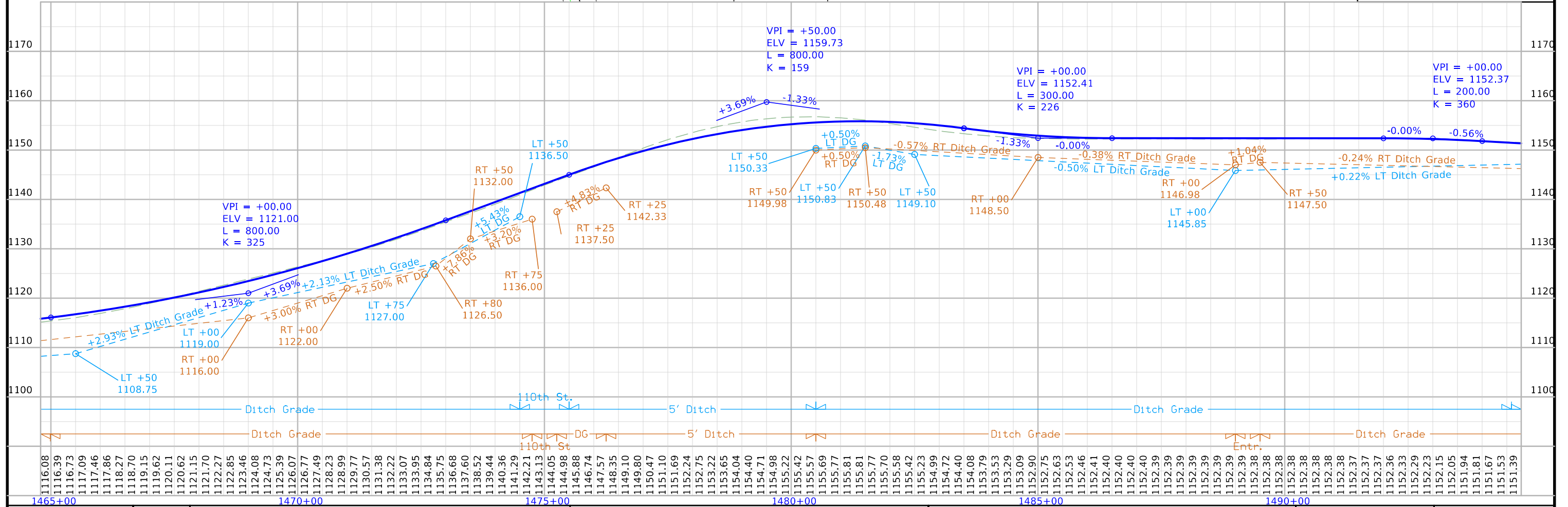
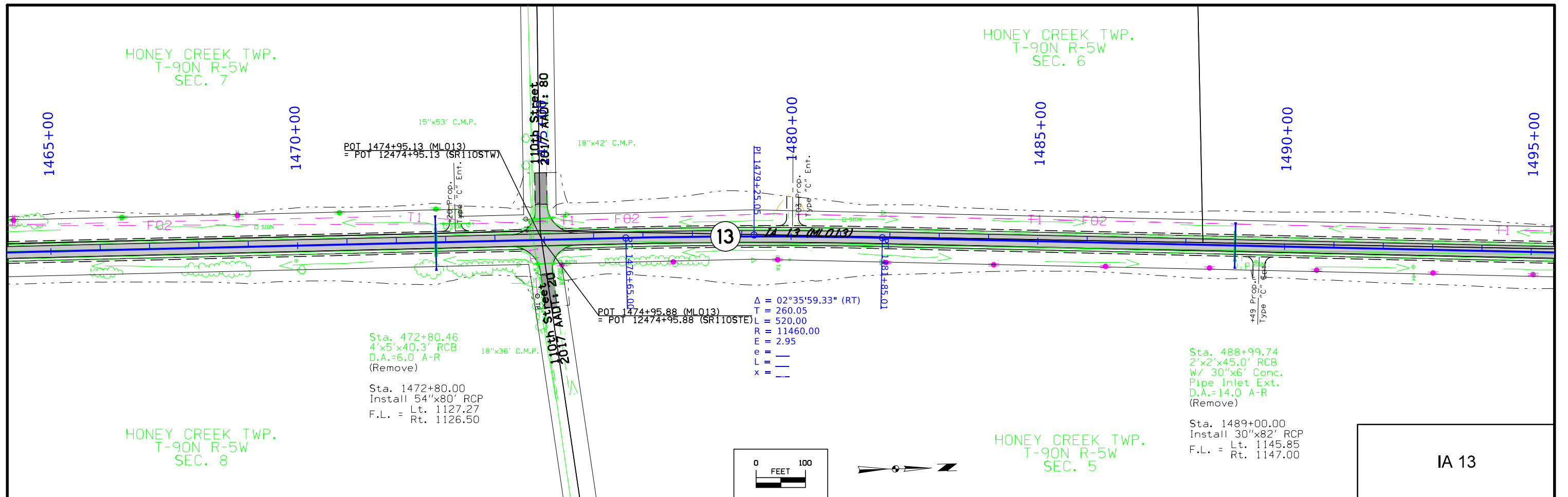
IA 13



1405+00	1410+00	1415+00	1420+00	1425+00	1430+00
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FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1435+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.16

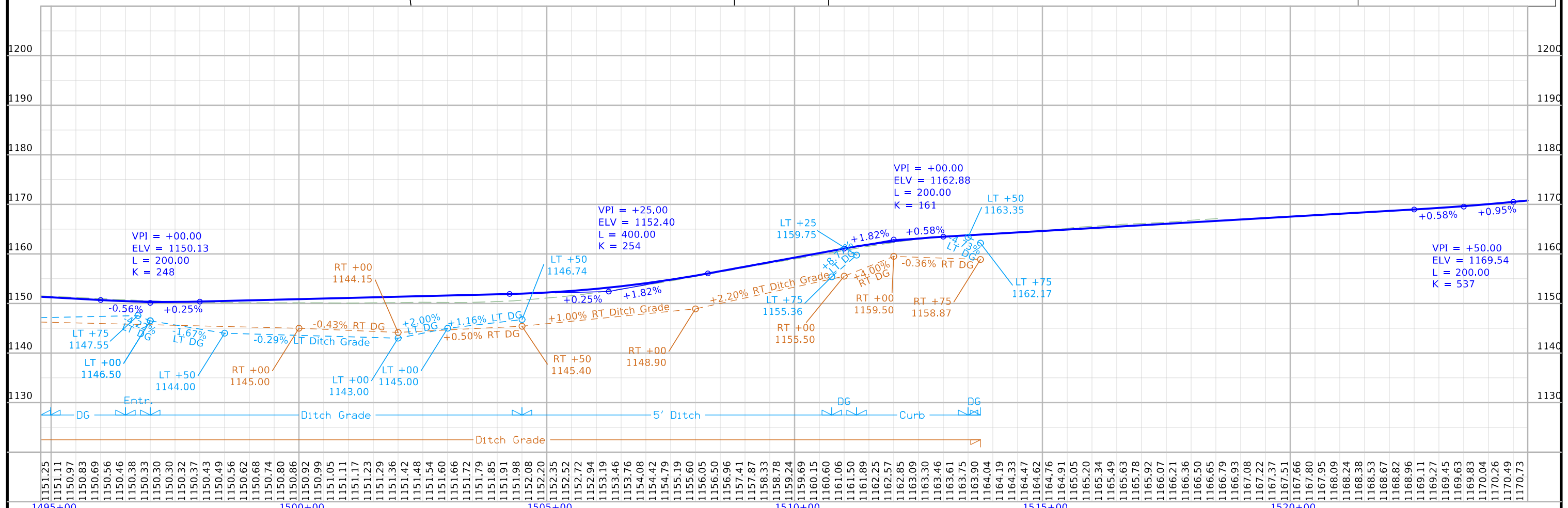
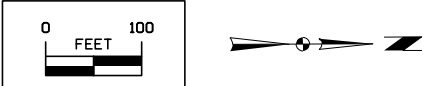
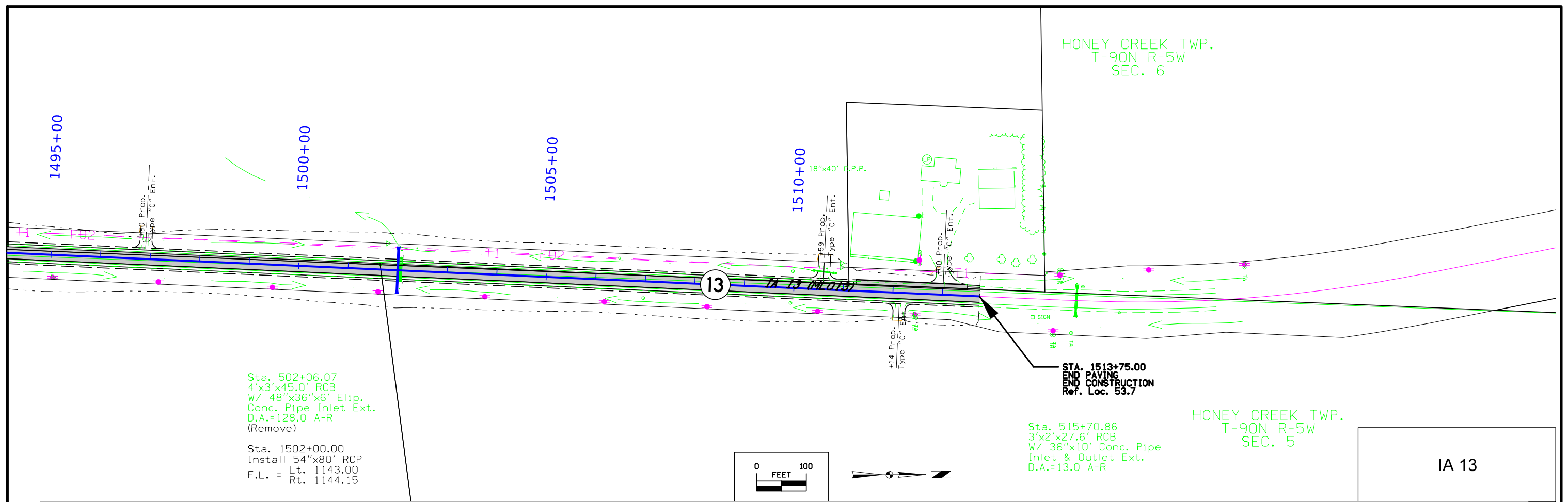


FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
1465+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	D.17

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 6

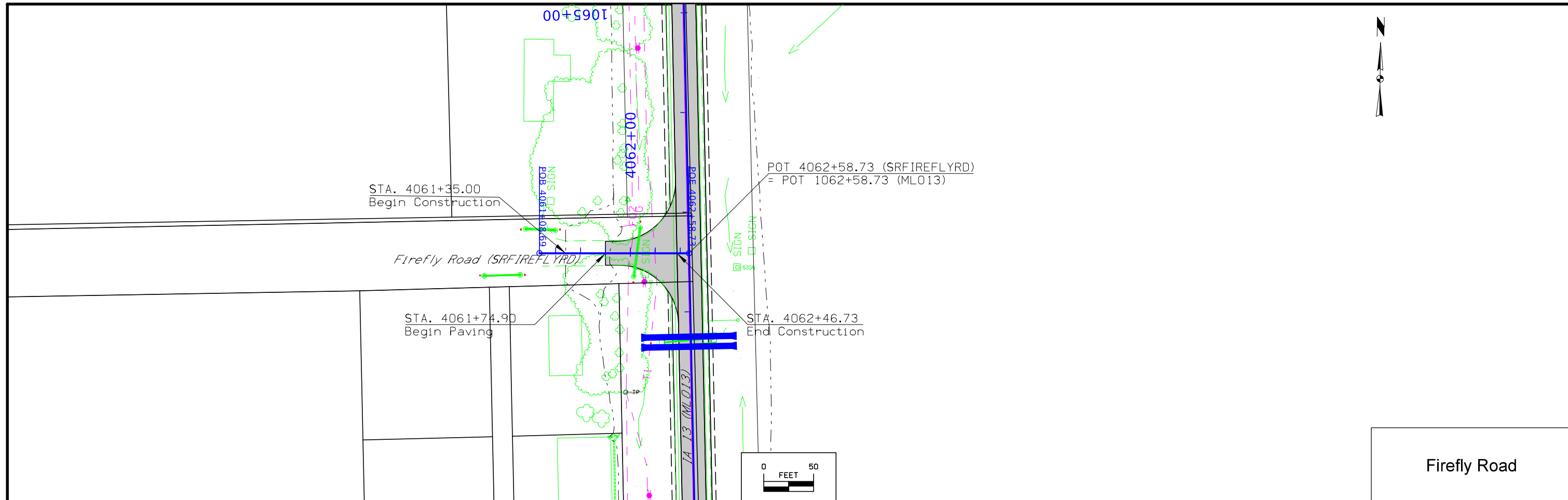
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 5

IA 13

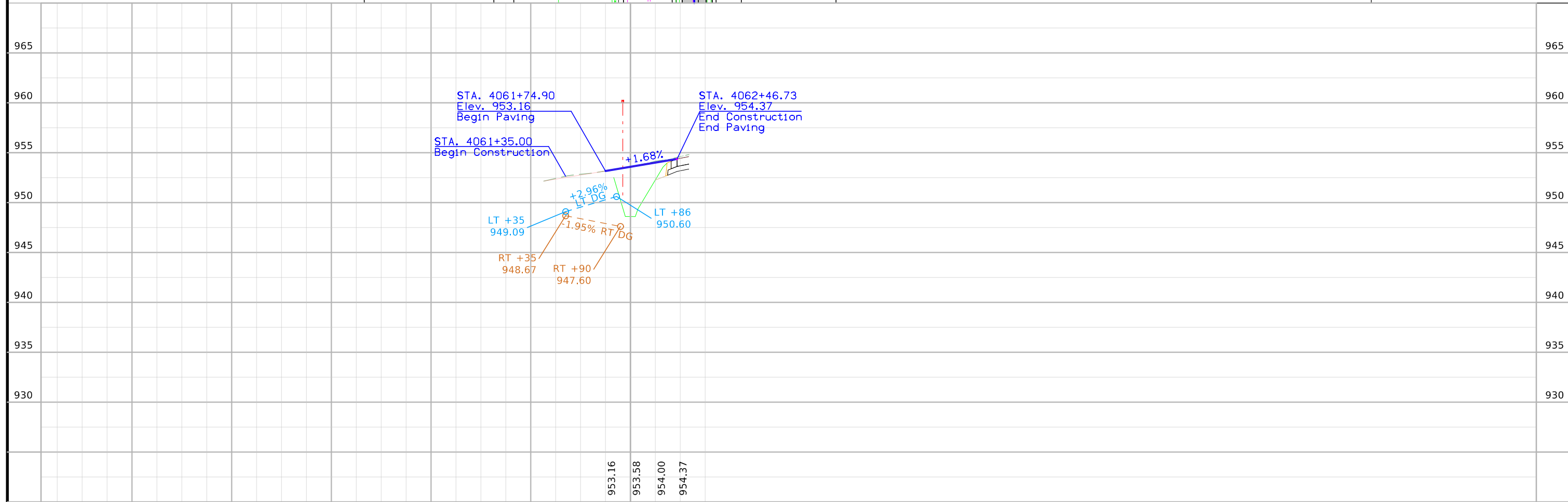


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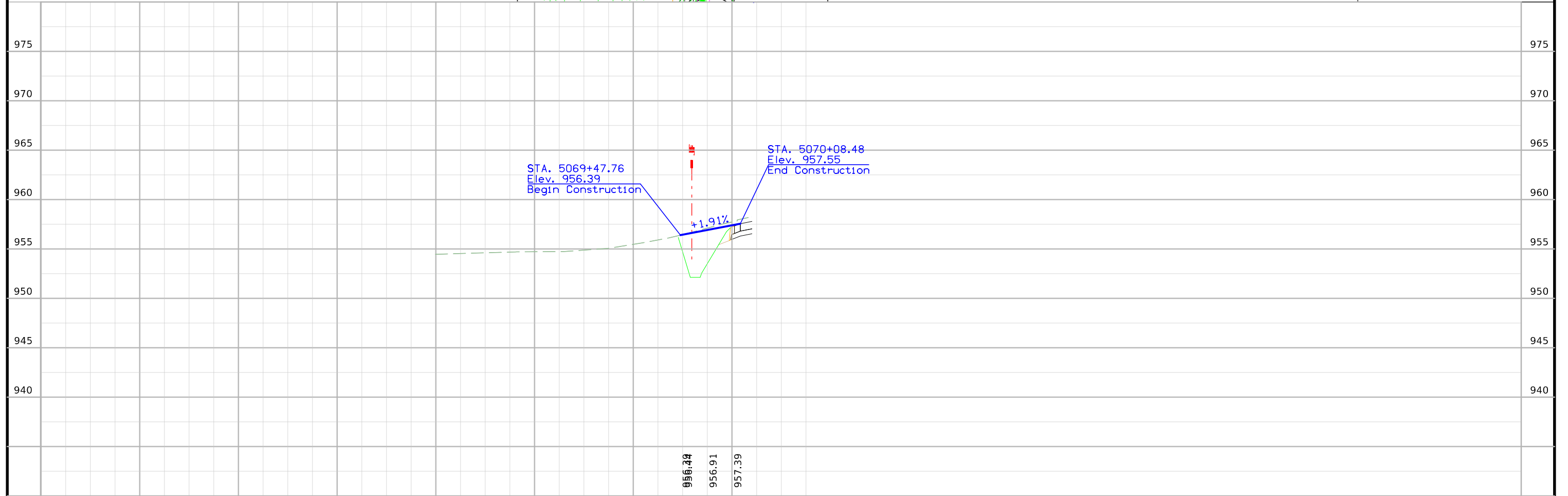
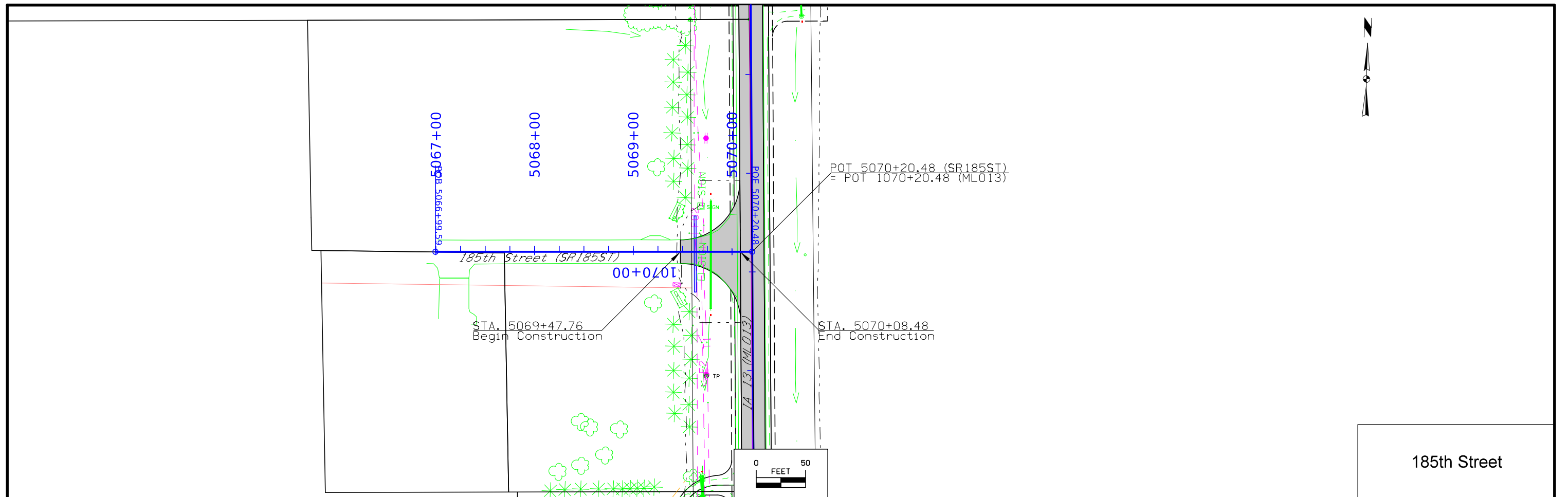




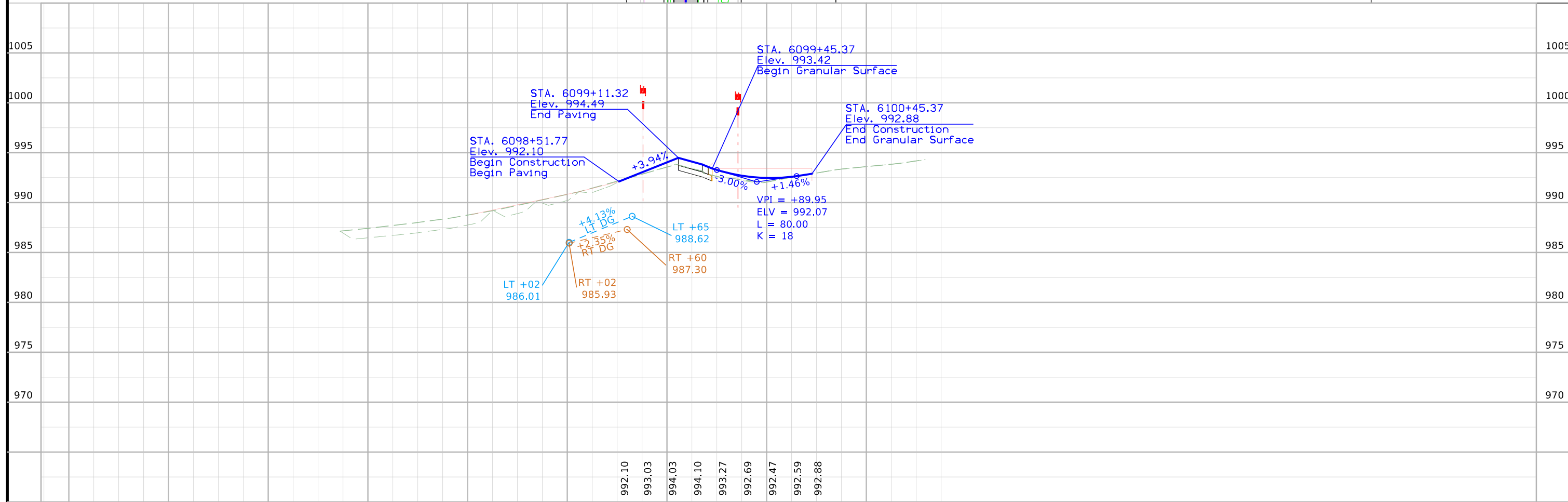
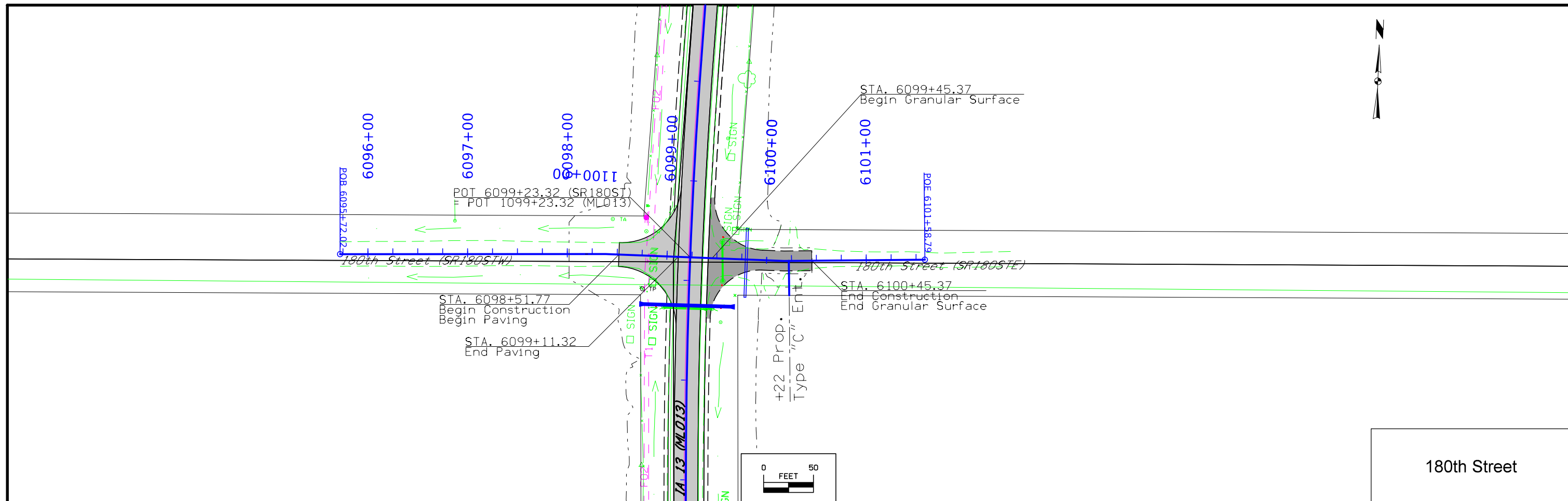
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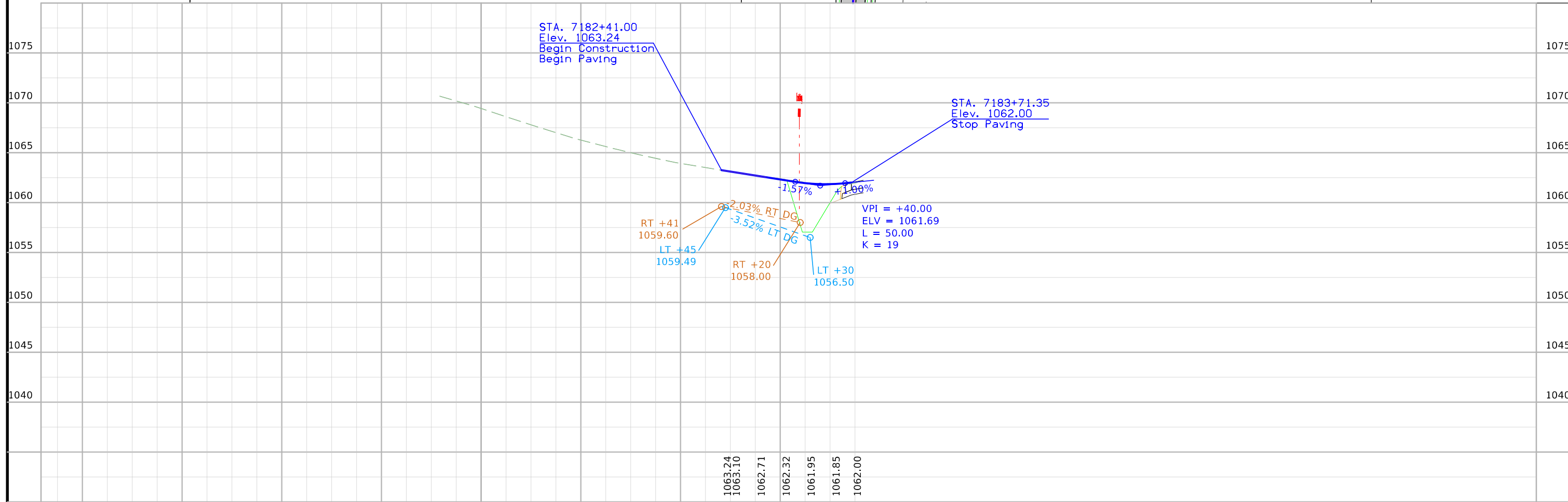
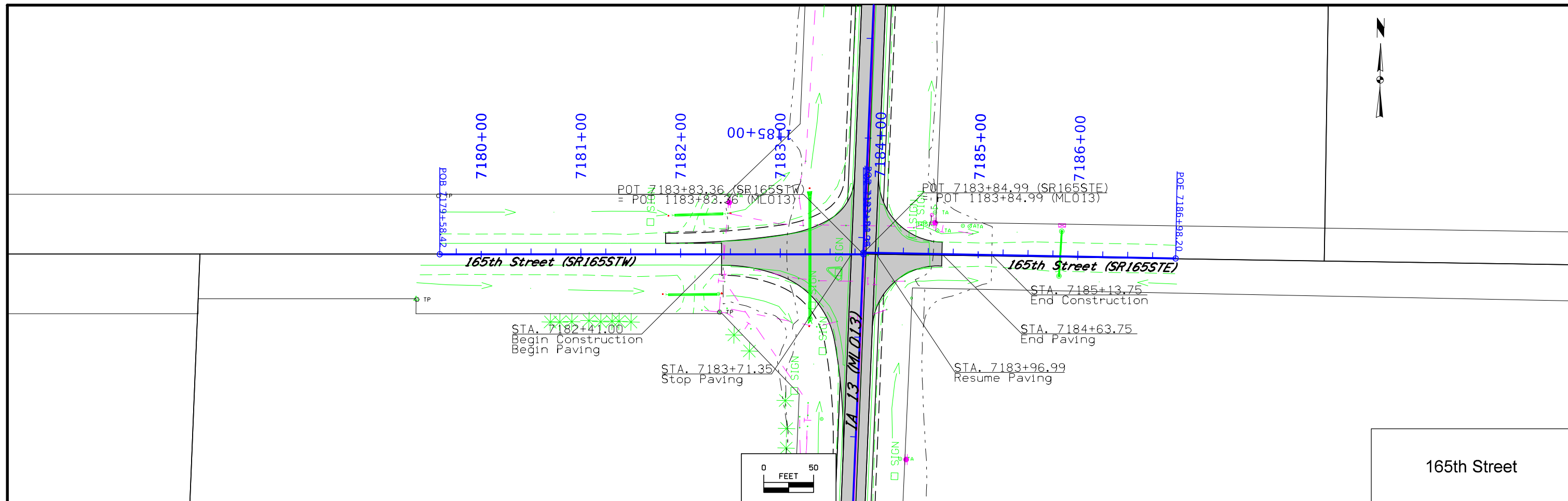
FILE NO.	ENGLISH	DESIGN TEAM	Strum \ Prindle \ McNamara	DELAWARE COUNTY	PROJECT NUMBER	NHSX-013-2(42)--3H-28	SHEET NUMBER	E.1
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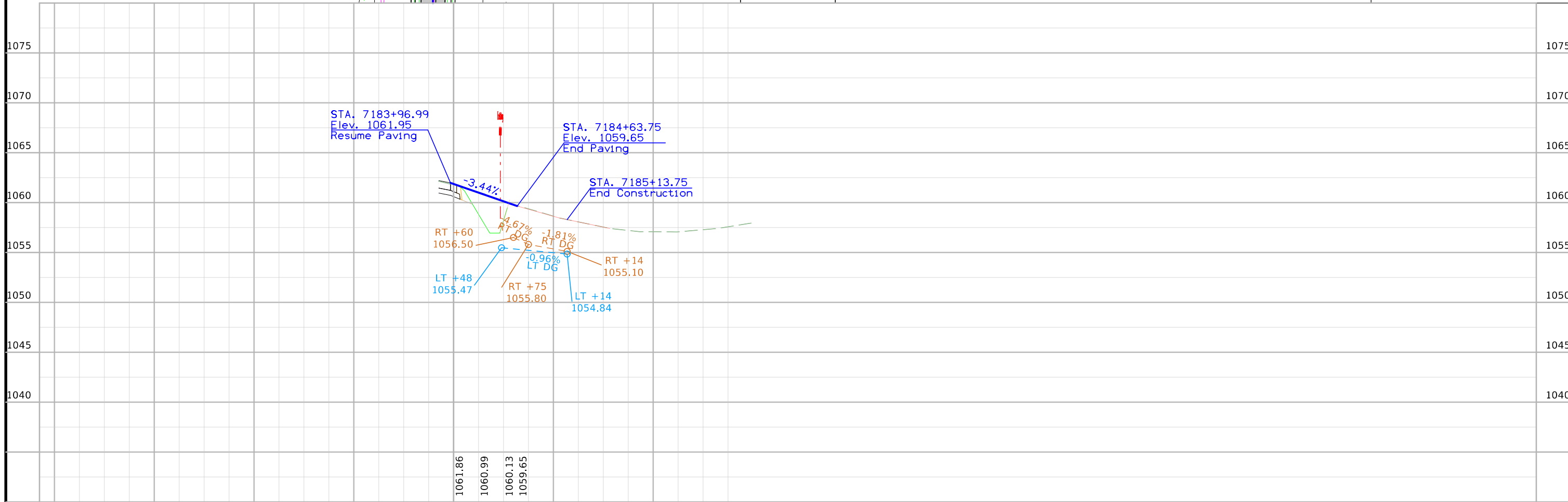
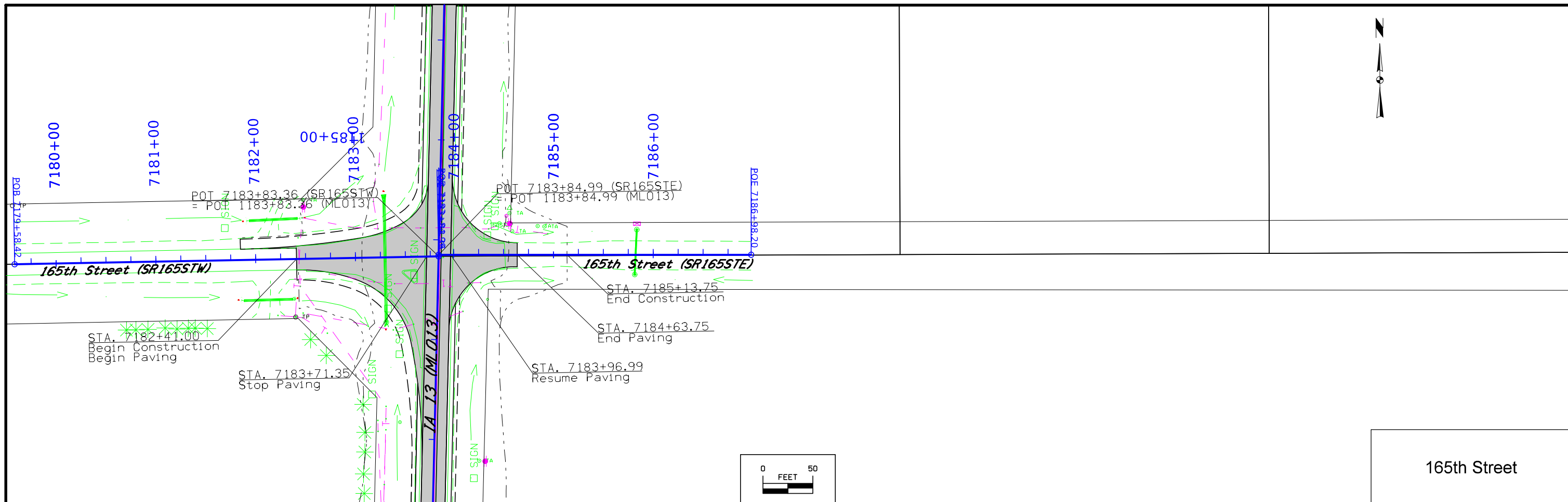
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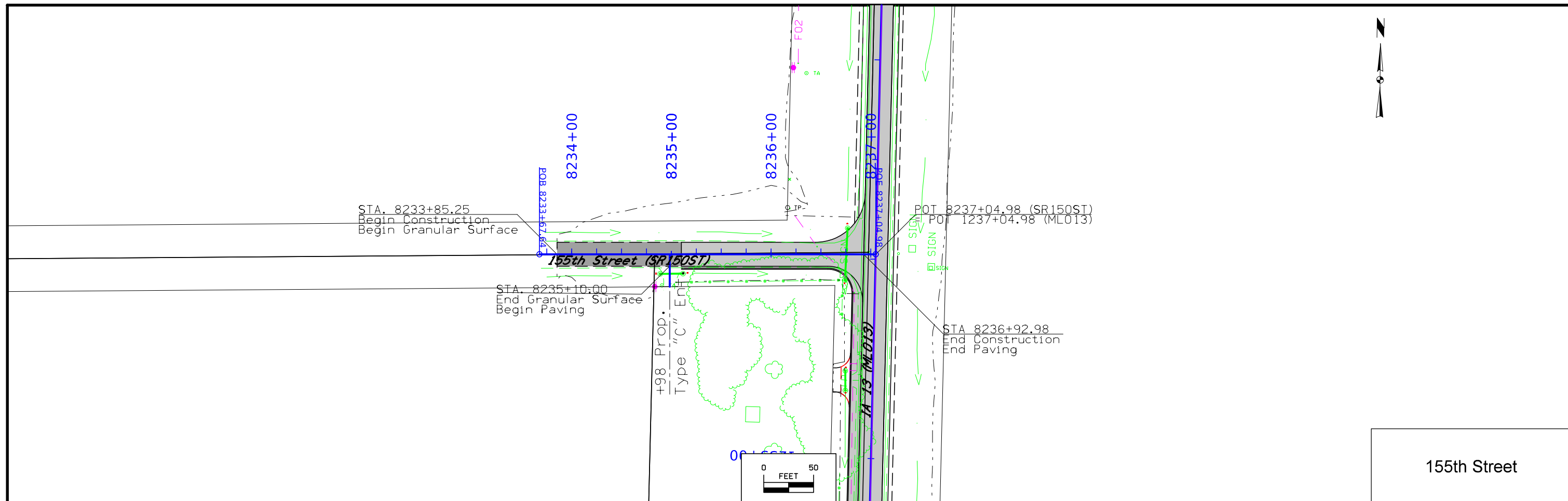
6093+00	6094+00	6095+00	6096+00	6097+00	6098+00	6099+00	6100+00	6101+00	DELAWARE COUNTY	PROJECT NUMBER NH5X-013-2(42)--3H-28	SHEET NUMBER E.3
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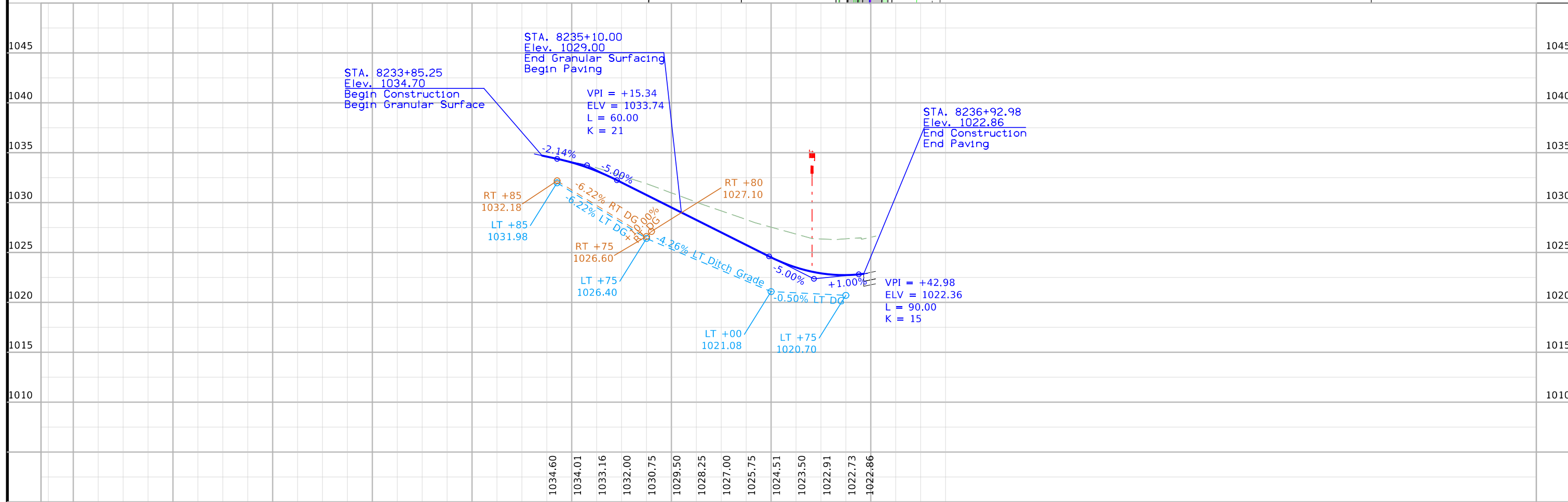
7176+00	7177+00	7178+00	7179+00	7180+00	7181+00	7182+00	7183+00	DELAWARE COUNTY	PROJECT NUMBER NH5X-013-2(42)--3H-28	SHEET NUMBER E.4
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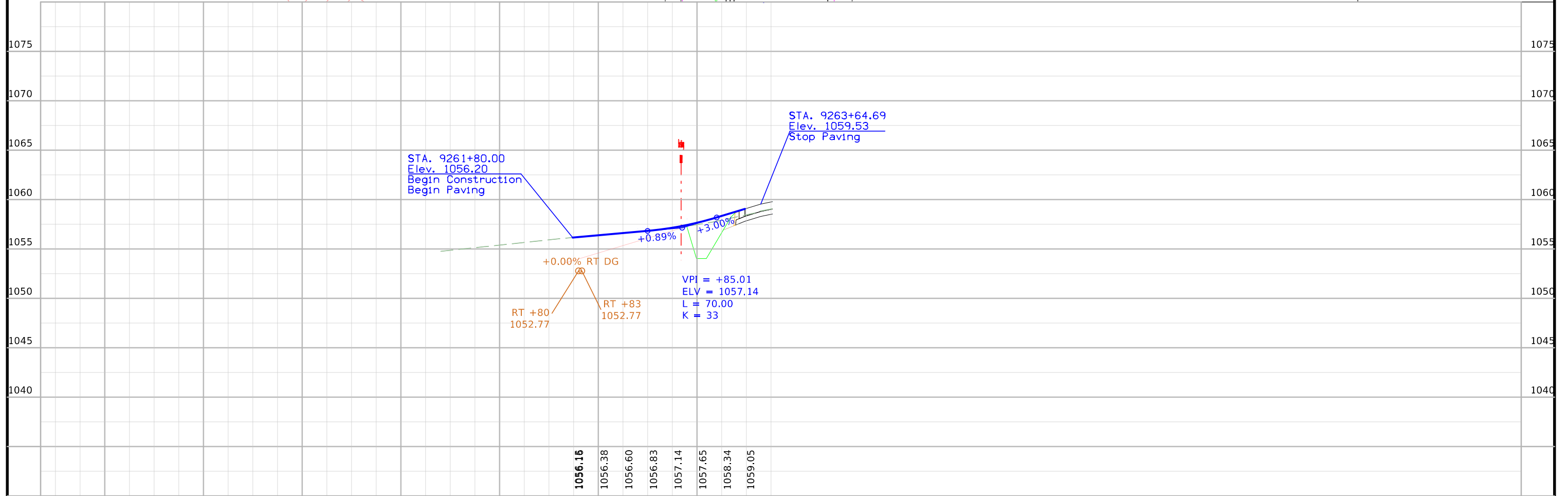
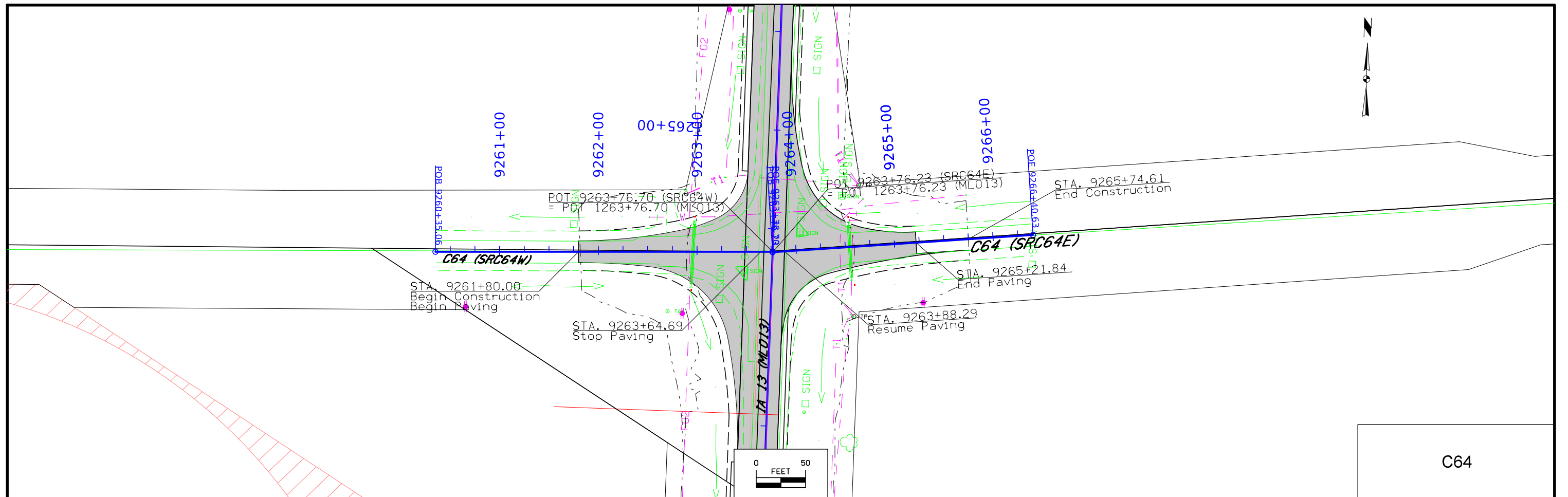
7180+00	7181+00	7182+00	7183+00	7184+00	7185+00	7186+00	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER E.5
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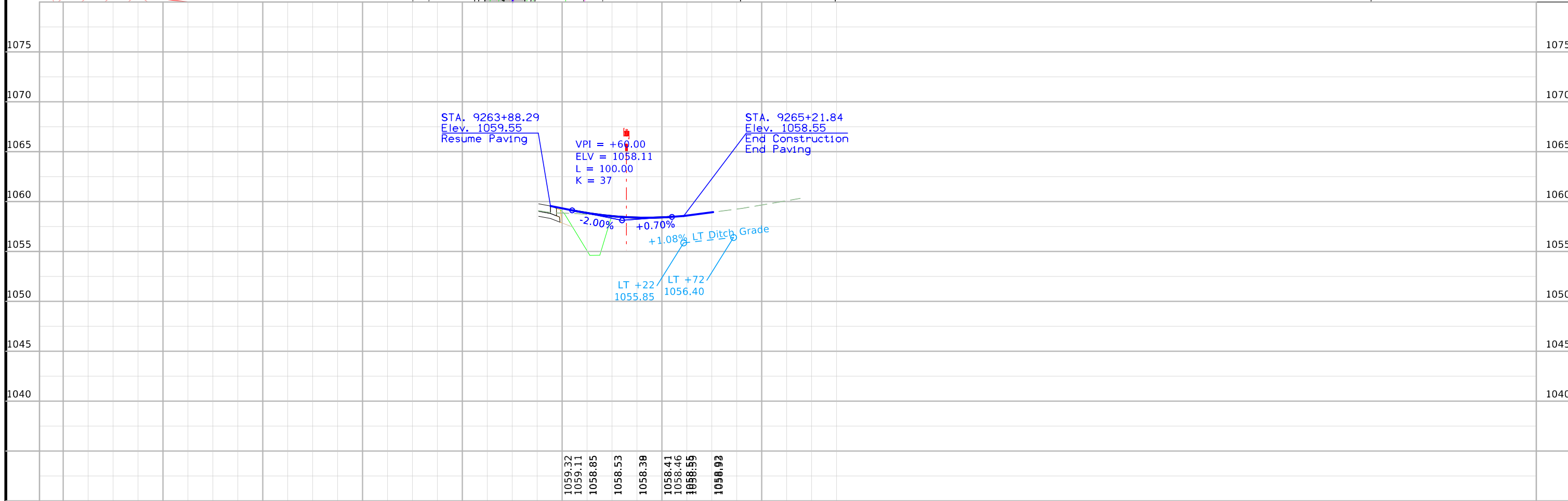
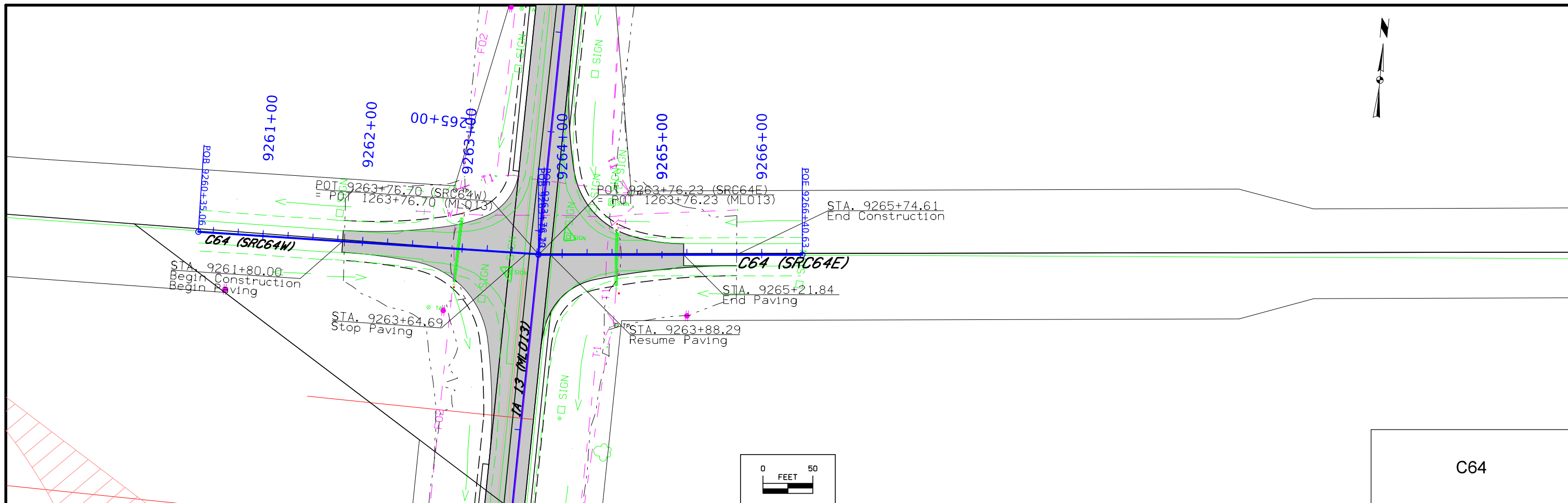
155th Street



8229+00	8230+00	8231+00	8232+00	8233+00	8234+00	8235+00	8236+00	8237+00	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER E.6
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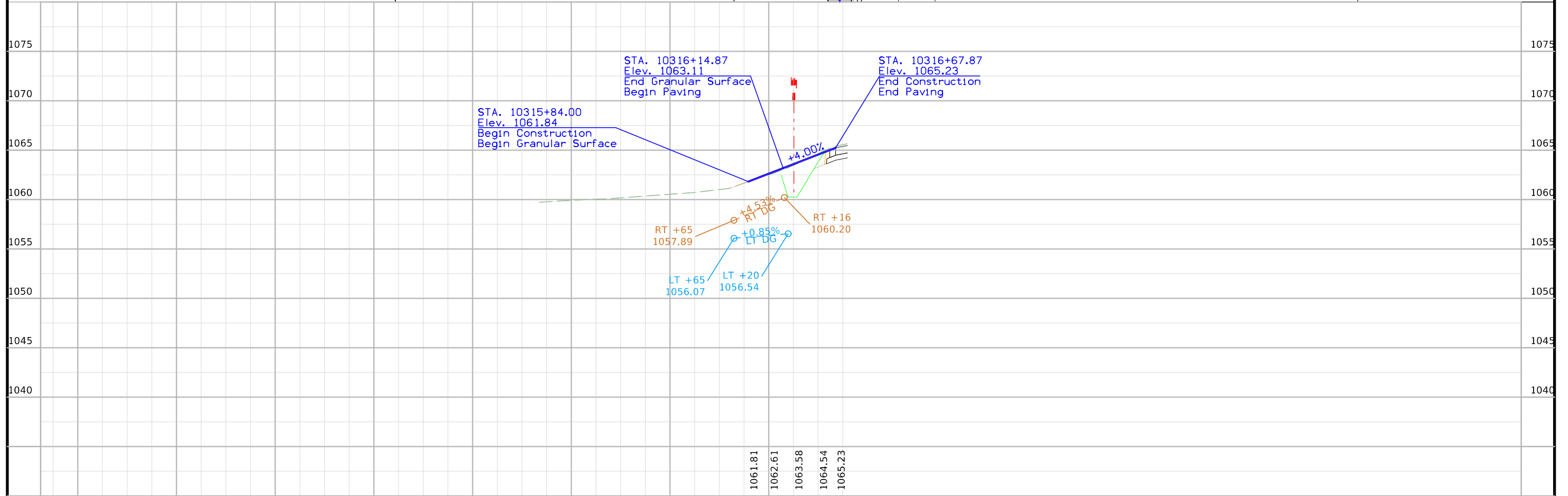
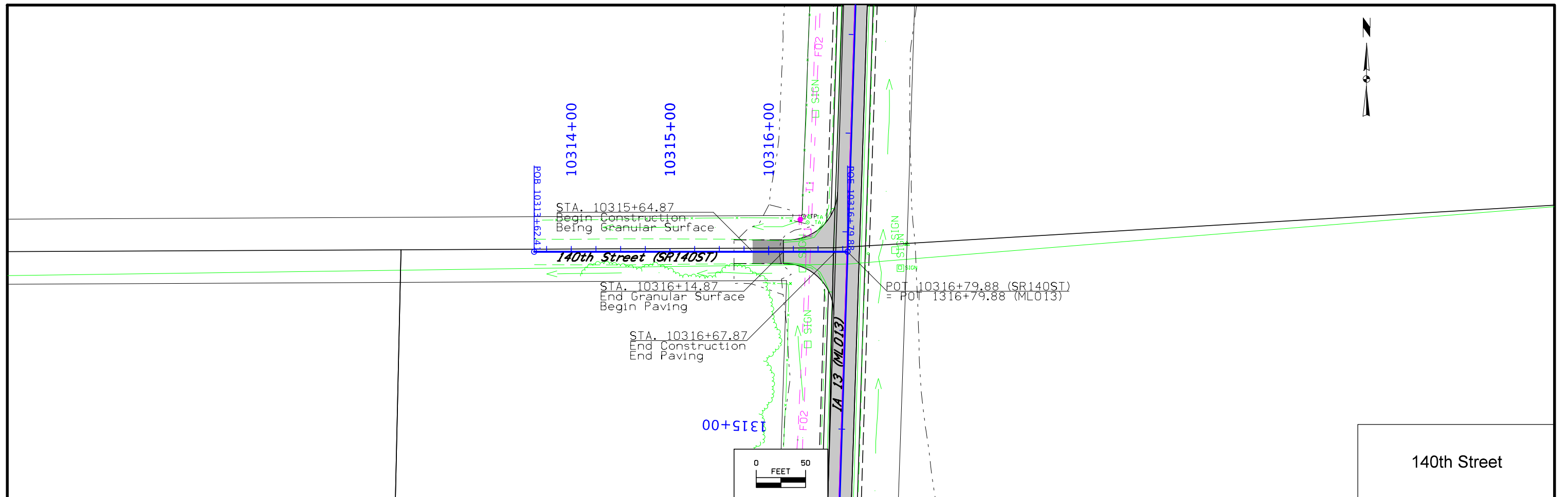


FILE NO.	ENGLISH	DESIGN TEAM	DELAWARE COUNTY	PROJECT NUMBER	SHEET NUMBER
9257+00		Strum \ Prindle \ McNamara		NHSX-013-2(42)--3H-28	E.7

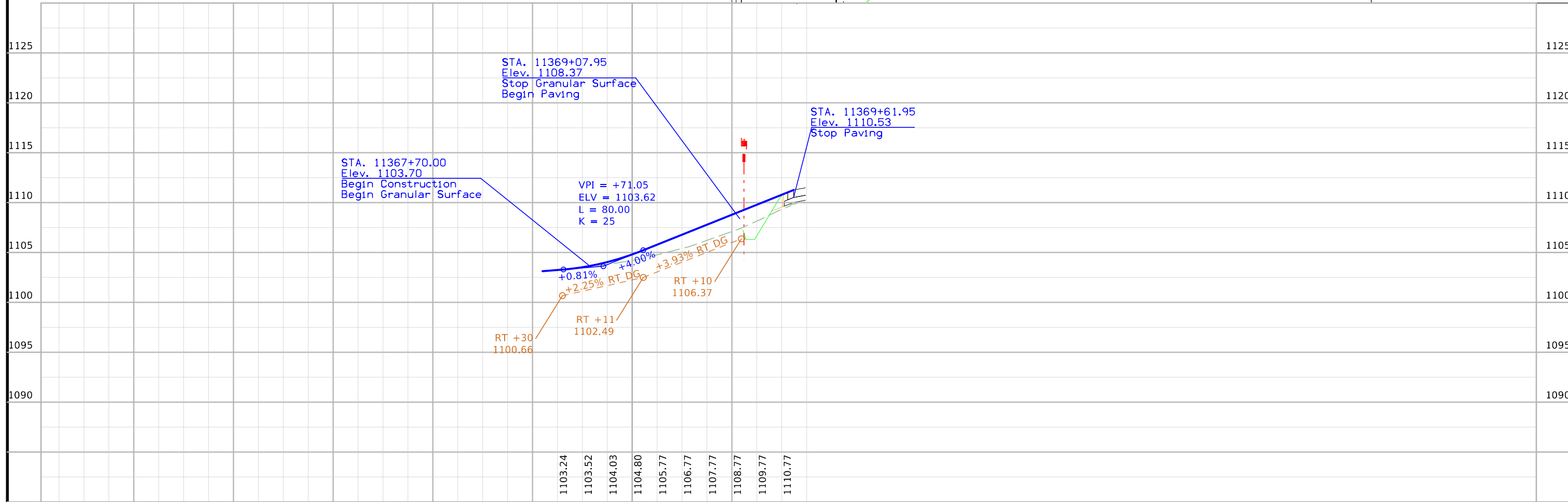
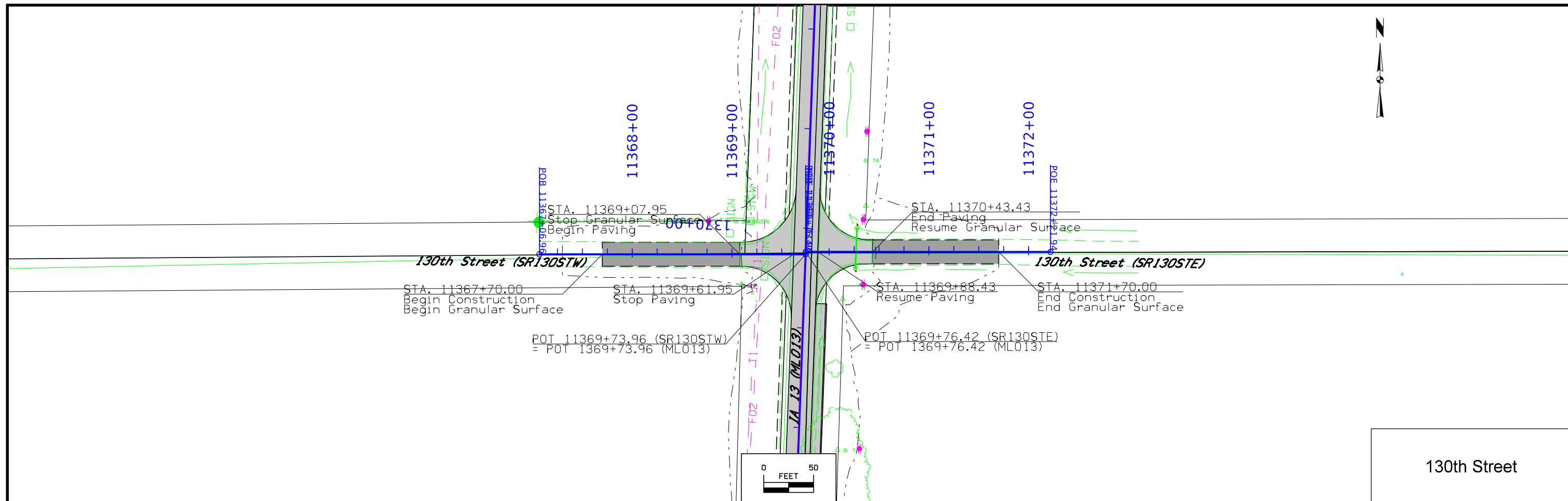


9259+00	9260+00	9261+00	9262+00	9263+00	9264+00	9265+00	9266+00	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER E.8
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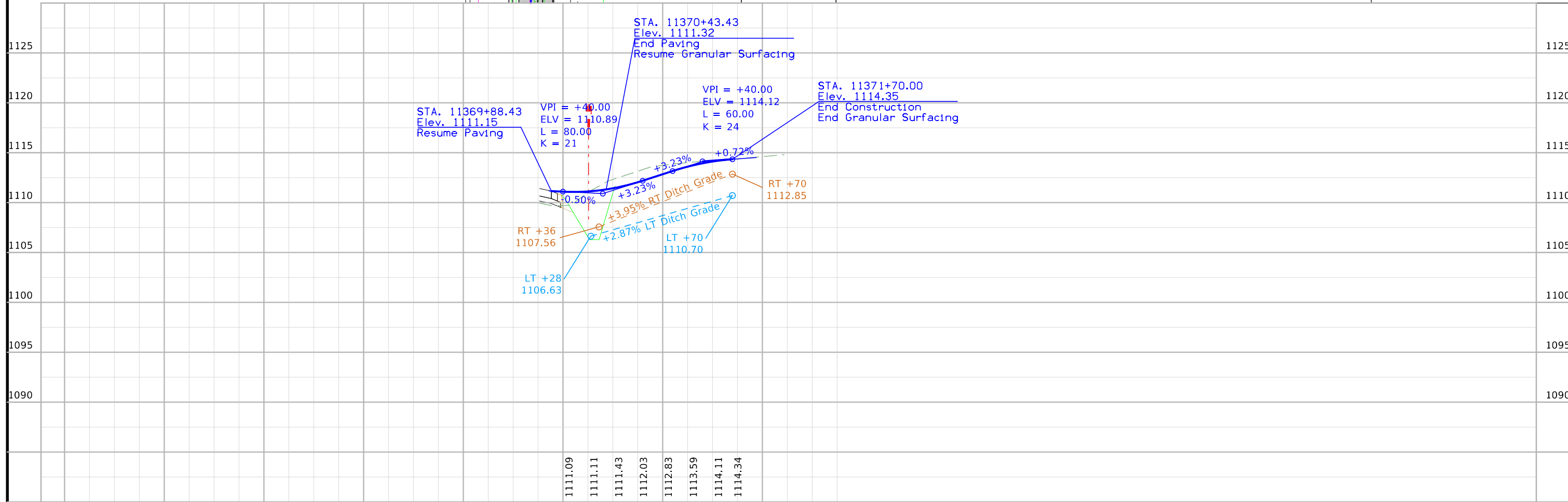
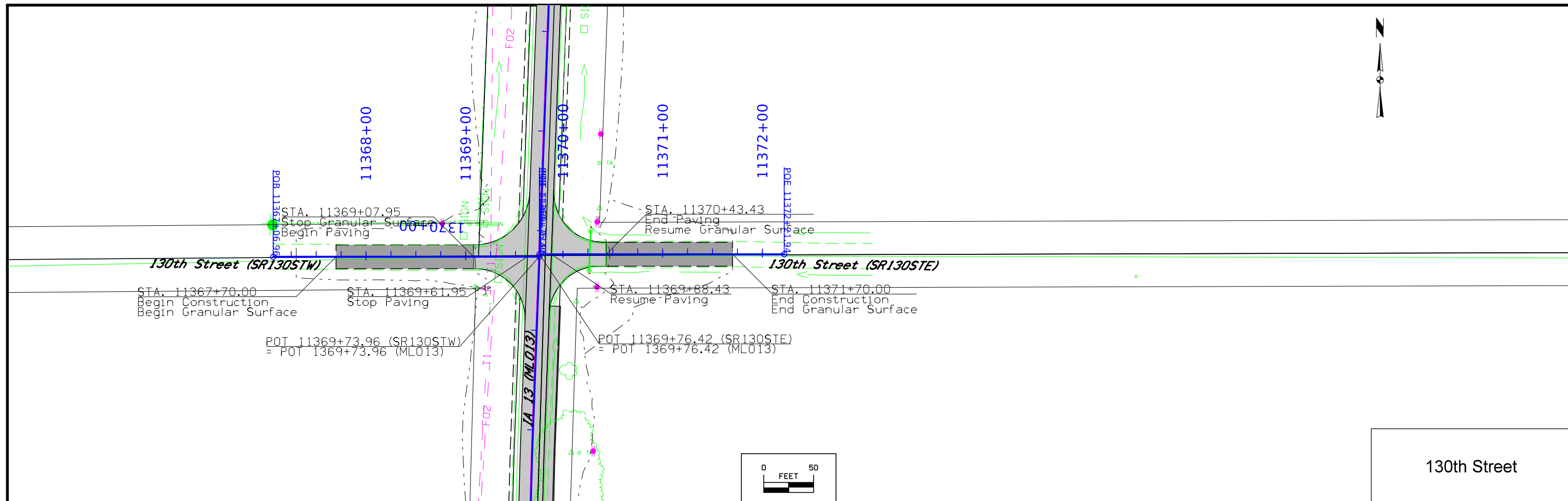




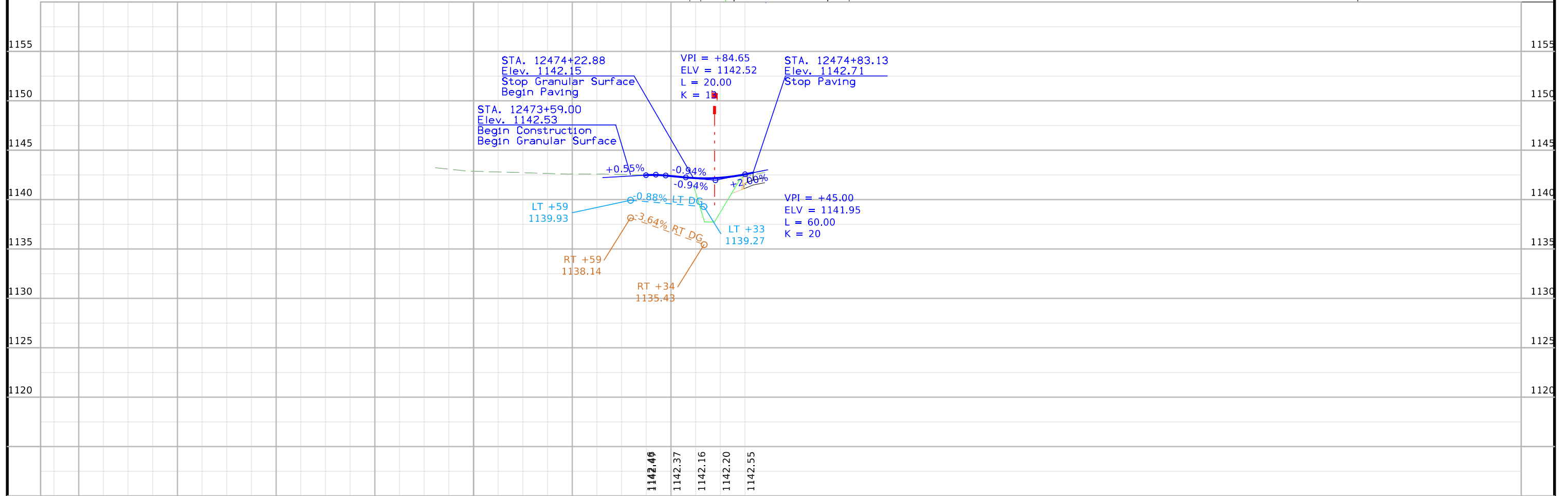
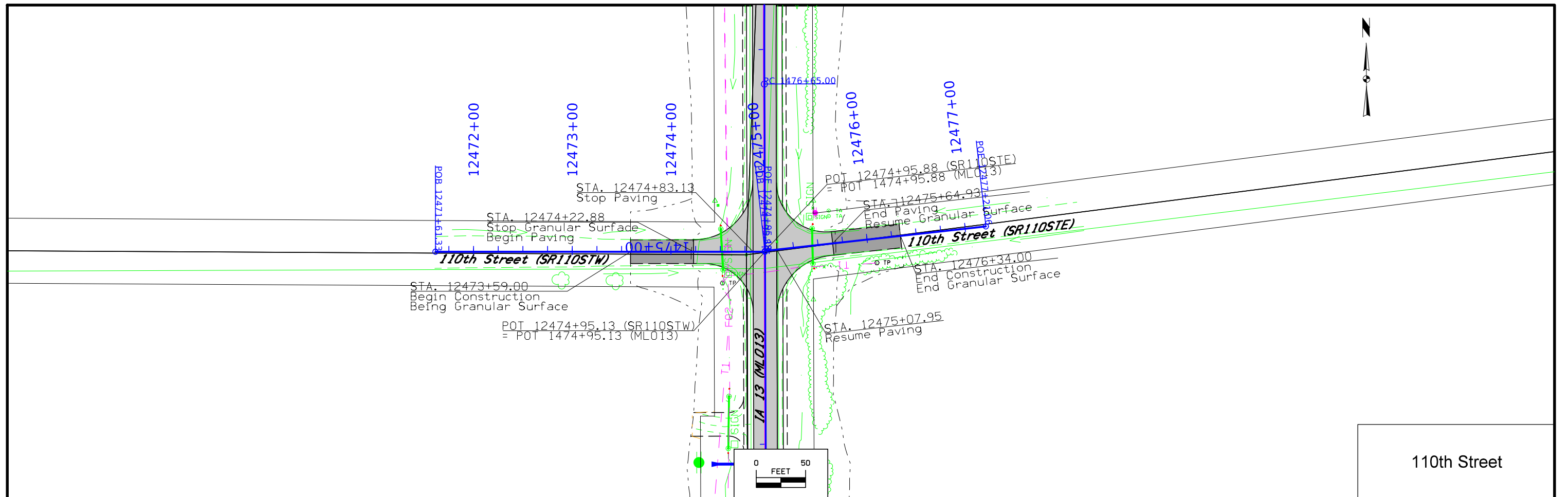
10309+00	10310+00	10311+00	10312+00	10313+00	10314+00	10315+00	10316+00	DELAWARE COUNTY	PROJECT NUMBER NH5X-013-2(42)--3H-28	SHEET NUMBER E.9
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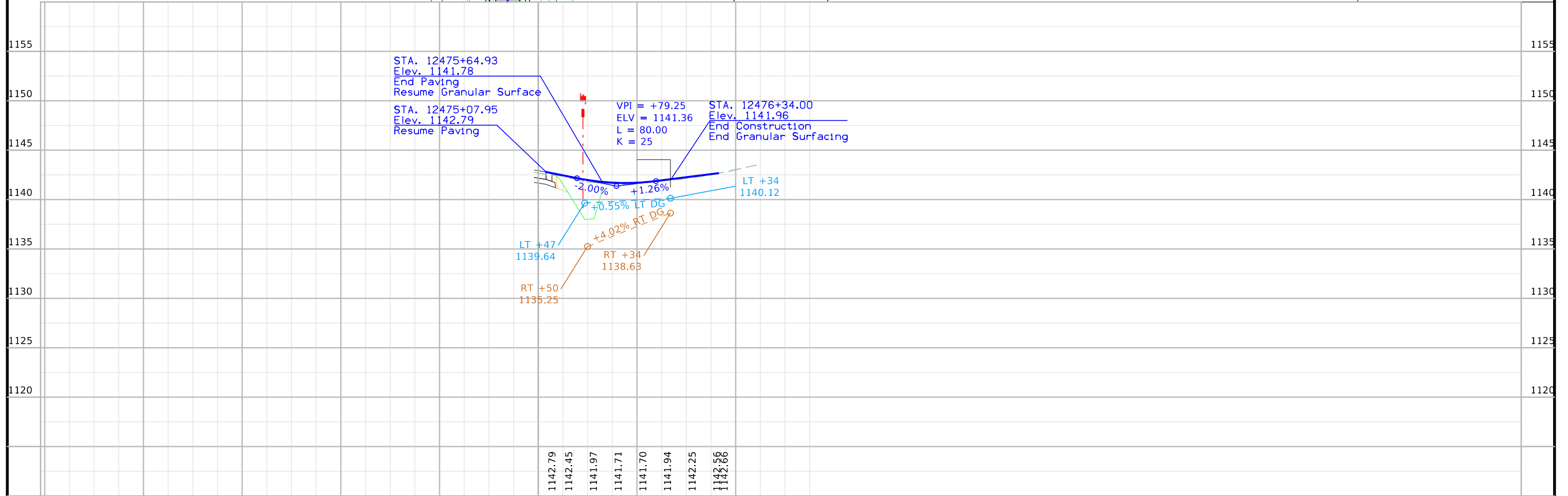
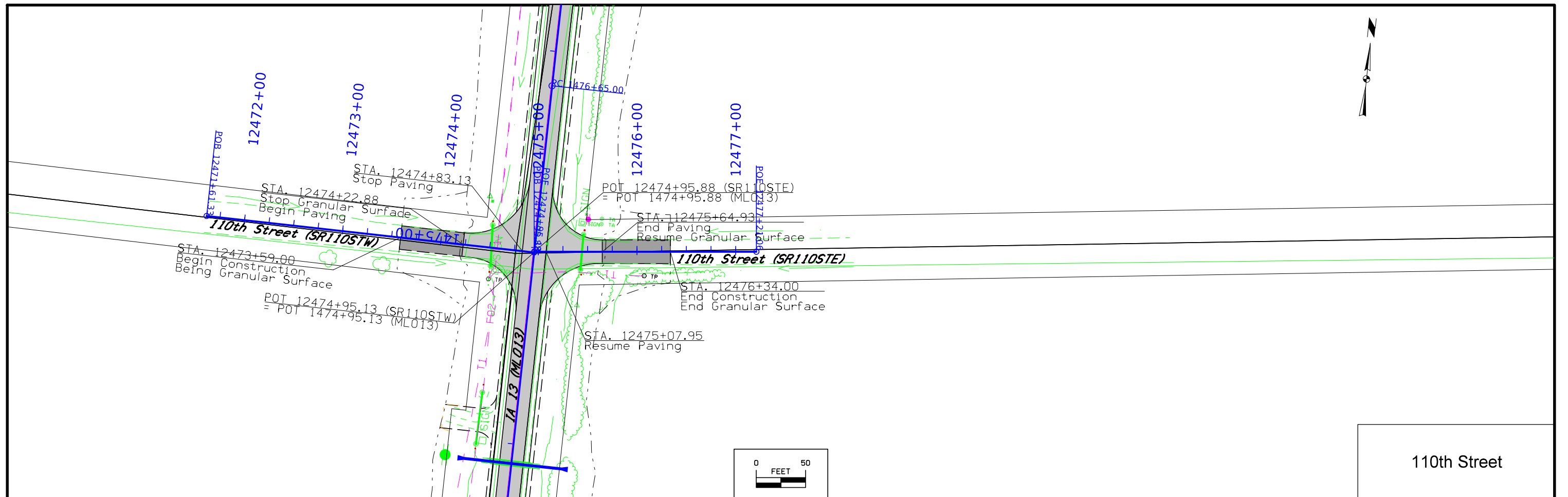
FILE NO.	ENGLISH	DESIGN TEAM Strum \ Prindle \ McNamara	DELAWARE COUNTY	PROJECT NUMBER NH5X-013-2(42)--3H-28	SHEET NUMBER E.10
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11365+00	11366+00	11367+00	11368+00	11369+00	11370+00	11371+00	11372+00	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER E.11
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12468+00	12469+00	12470+00	12471+00	12472+00	12473+00	12474+00	1142.45	1142.37	1142.16	1142.20	1142.55	DELAWARE COUNTY	PROJECT NUMBER NH5X-013-2(42)--3H-28	SHEET NUMBER E.12
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12470+00	12471+00	12472+00	12473+00	12474+00	12475+00	12476+00	12477+00	DELAWARE COUNTY	PROJECT NUMBER NH5X-013-2(42)--3H-28	SHEET NUMBER E.13
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## Survey Information

Delaware County  
 NHSX-013-2(42)--3H-28  
 PIN 18-28-013-010  
 IA 13 – Partial Survey of IA 13 0.5 Miles N of Honey Creek to 0.2 Miles S of Junction IA 3  
 Approx. 9 Miles  
 SAP 0953.0

### General Information

Measurement units for this survey are US survey feet. Project datum and control was established using IARTN. This is a partial survey of IA 13. Starting 0.5 Miles north of Honey Creek and ending 0.2 Miles south of Junction IA 3

### Vertical Control

Vertical datum for this survey is relative to NAVD88. Geoid 12B was used in this survey. Iowa RTN was used to establish 16 control points surrounding the perimeter of the project. CP101-CP116 were then calibrated from CP100. Additional benchmarks were placed throughout the project using RTK GPS.

BM #518 EL= 1018.714' this survey 1983 AB Plan Sheet 16 of 97 EL=1018.75'  
 BM #530 EL=1069.312' this survey 1983 AB Plan Sheet 16 of 97 EL=1069.57'  
 BM #535 EL= 1093.007' this survey 1983 AB Plan Sheet 16 of 97 EL=1093.27'  
 BM #542 EL= 1102.501' this survey 1983 AB Plan Sheet 16 of 97 EL=1102.75'  
 BM #543 EL= 1110.365' this survey 1983 AB Plan Sheet 16 of 97 EL=1110.71'  
 BM #544 EL= 1107.384' this survey 1983 AB Plan Sheet 16 of 97 EL=1107.57'

### Horizontal Control

The project coordinate system for this survey is IaRCS Zone 3(U.S. Survey Feet). This survey control is relative to IaRTN reference Stations. IaRTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011) for Epoch 2010.00. We establish 16 control points surrounding the perimeter of the project limits, observing each for 180 epochs. CP101-CP116 were then calibrated from CP100. Additional control points were placed throughout the project using GNSS Base-Rover setup relative to CP100.

The Combined Scale Factor may be used for total station stakeout and location to survey in the State Plane Coordinate system.

### Alignment Information

The horizontal alignment for this survey is a retrace of As-Built Plans No. P-236Abc-24390948. Survey stationing was equated to the plan PC at STA 152+79.40 at point #4228, Found Cut "X" in Pavement, and run back and ahead without equation throughout the end of the survey. The alignment from STA 514+72.75 forward throughout the end of the survey is a retrace of As-Built Plans No. F-13-2(13)—20-28.

Survey stationing relates to as-built plan stationing as follows:

PT Sta. 14+79.40 Project No. P-236Abc-24390948  
 Survey POT Sta. 14+79.40

PC Sta 152+79.40 Project No. P-236Abc-24390948  
 Survey PC STA 152+79.40

PI STA 367+77.10 Project No. P-236Abc-24390948  
 Survey PI STA 367+77.40

PC STA 423+86.60 Project No. P-236Abc-24390948  
 Survey PC STA 423+86.90

PC STA 476+65.00 Project No. P-236Abc-24390948  
 Survey PC STA 476+65.30

TS STA 616+83.75 Project No. F-13-2(13)—20-28  
 Survey TS STA 514+72.75

CS STA 621+42.02 Project No. F-13-2(13)—20-28  
 Survey CS STA 521+60.25

POT STA 628+44.99 Project No. F-13-2(13)—20-28  
 Survey POT STA 528+64.19

### Point Numbers Used

Control Points 100-117, 120-158  
 Bench Points 500-536,538-551  
 Topo 4000-33435,37000-38355,40000-40469

Point Numbers available for future surveys  
 1-99,118,119,159-499,537,552-999,1037-1999,2034-2999,3027-3999,  
 33436-36999,38356-39999,40470-100000

### Date(s) of Survey

Begin Date 10/28/2019  
 End Date 4/30/2020

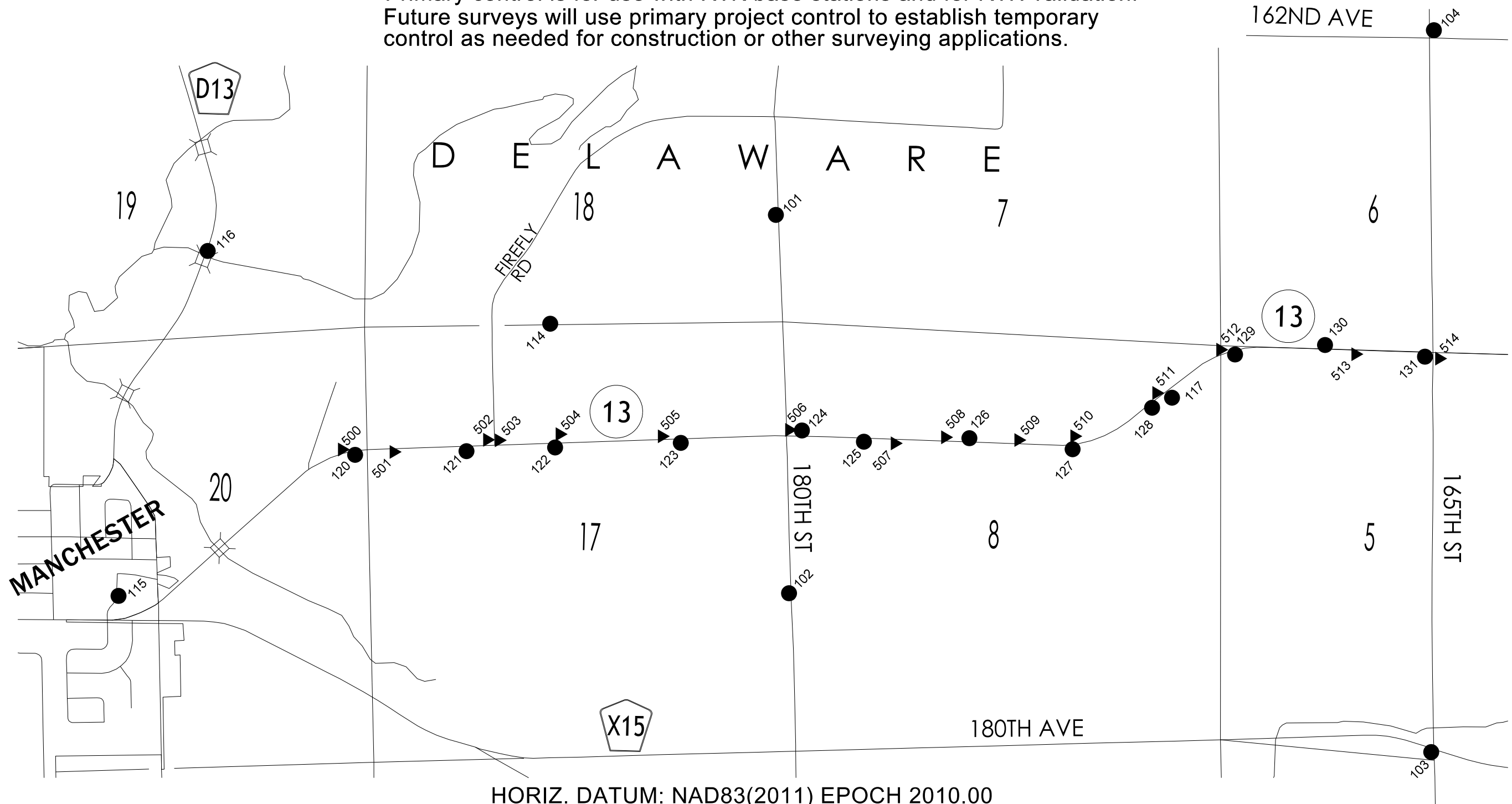
### Party Personnel

Jeremy Leemon	Survey Project Manager
Chris Ries	Assistant Survey Project Manager
CJ Beckman	Instrument
Scott Jones	Instrument
Jacob Powers	Instrument

Survey Feature table lafea1/22/2015.doc  
 Trimble IowaDOT19.1.fxl file  
 CADD Feature Table and Cell files IDOTsurvey\_smd

### CONTROL POINT VICINITY MAP

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



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

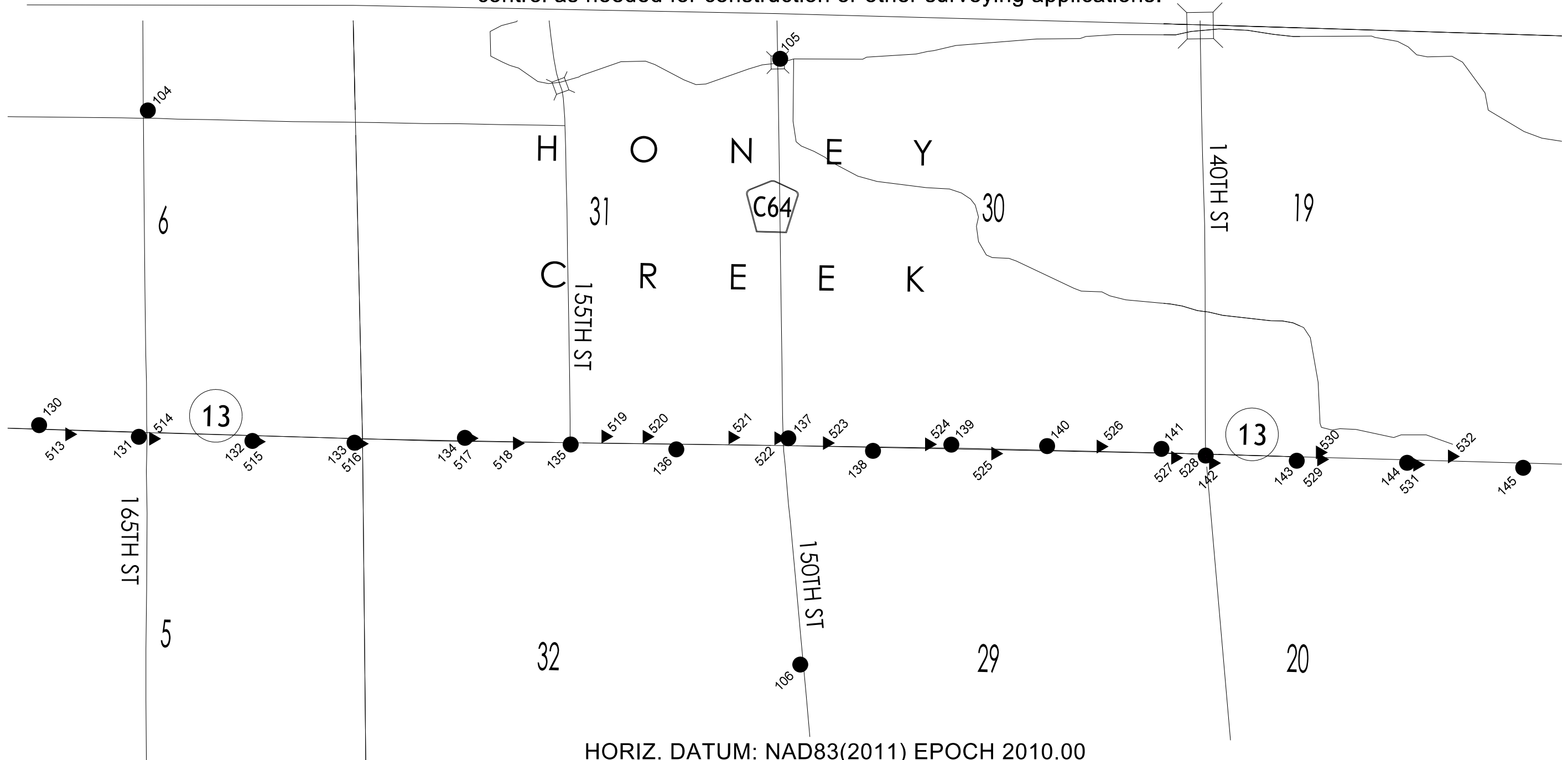
VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 3

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

### CONTROL POINT VICINITY MAP

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 control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00  
 VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 3

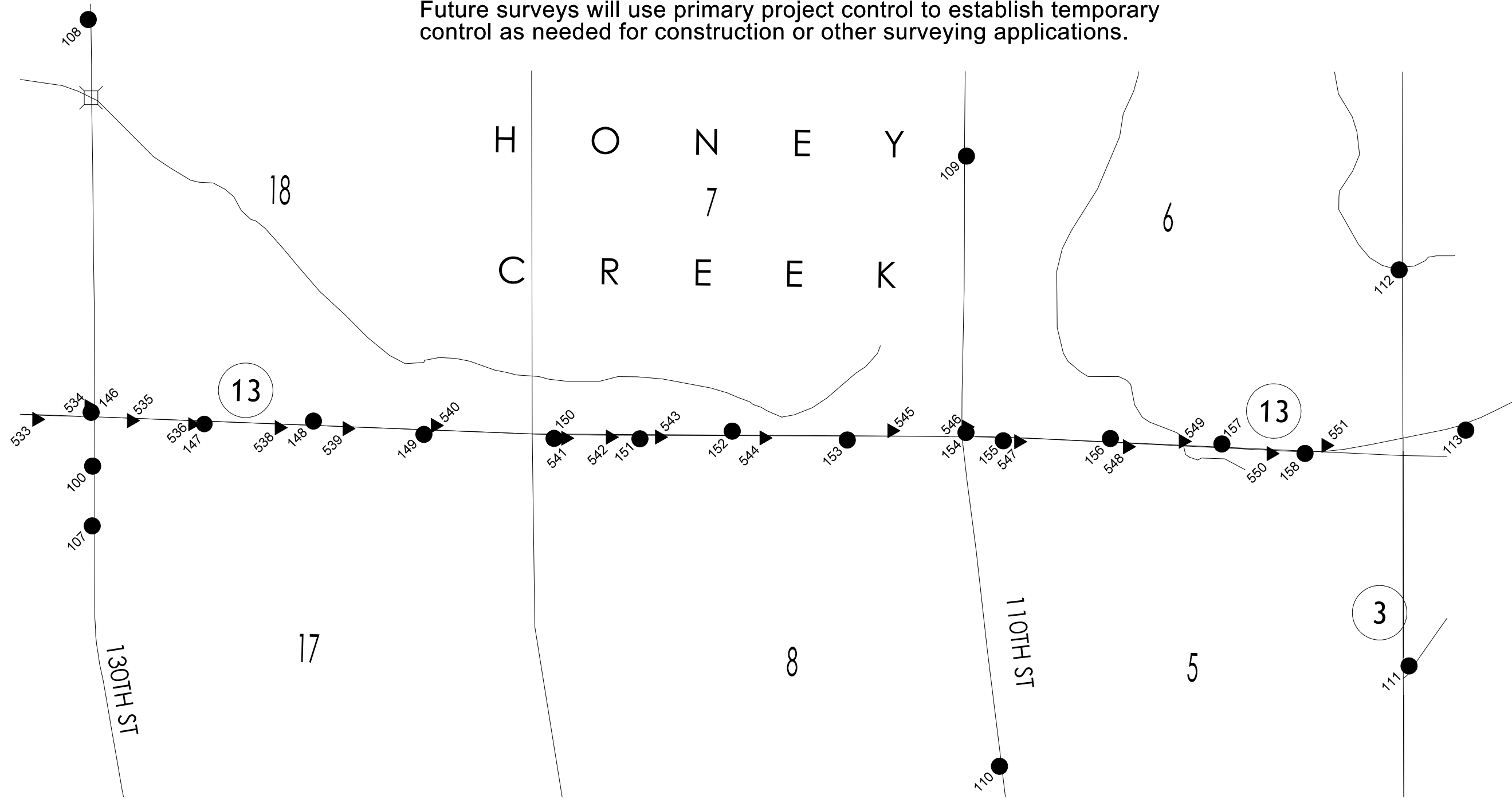
Coordinate listing from next sheet will be used with IaRTN for monument  
 recovery. No other reference ties are given.





### CONTROL POINT VICINITY MAP

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



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 3

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

# HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

## Ia. Regional Coordinate System Zone 3

Point Name	Northing	Easting	Elev.	Fea. Code	Description						
100	9156609.88	13428109.73	1113.52	CP	SET REBAR 6 IN DEEP 24 FT SOUTH OF 130TH ST CL 599 FT EAST OF IA 13 CL	136	9144692.05	13427297.85	1038.75	CP	SET REBAR 6 IN DEEP 67 FT EAST OF CL SOUTH SIDE OF FIELD ENT
101	9129808.81	13425361.63	965.32	CP	SET REBAR 6 IN DEEP 38 FT SOUTH OF 180TH ST CL 120 FT WEST OF CULVERT	137	9146097.64	13427159.21	1055.44	CP	FD REBAR 6 IN DEEP 90 FT WEST OF CL 60 FT NORTH OF 150TH ST CL
102	9129972.80	13430107.40	973.24	CP	FD REBAR 6 IN DEEP 26 FT SOUTH OF 180TH ST CL NEAR CORNER POST	138	9147160.26	13427317.49	1077.17	CP	SET REBAR 6 IN DEEP 54 FT EAST OF CL
103	9138025.75	13432098.74	1004.52	CP	SET REBAR 6 IN DEEP 50 FT SE OF 180TH AVE CL 38 FT SOUTH OF 165TH ST CL	139	9148144.45	13427239.17	1066.63	CP	SET REBAR 6 IN DEEP 40 FT WEST OF CL 24 FT NORTH OF PP
104	9138059.37	13423046.27	1014.03	CP	SET REBAR 6 IN DEEP 55 FT NORTH OF 165TH CL 93 FT WEST OF 162ND AVE CL	140	9149346.52	13427256.49	1051.70	CP	SET REBAR 6 IN DEEP 50 FT WEST OF CL 130 FT SOUTH OF PP
105	9145995.39	13422398.91	999.64	CP	SET REBAR 6 IN DEEP 26 FT NORTH OF 150TH ST 20 FT WEST OF TRIP BOX CUL	141	9150780.92	13427291.81	1064.30	CP	SET REBAR 6 IN DEEP 49 FT WEST OF CL 74 FT SOUTH OF RES ENT
106	9146247.69	13429998.35	1057.44	CP	SET REBAR 6 IN DEEP 44 FT SOUTH OF 150TH ST AT CORNER POST	142	9151337.12	13427376.73	1064.43	CP	SET REBAR 6 IN DEEP 21 FT EAST OF CL AT 140TH ST INTERSECTION
107	9156605.01	13428834.84	1108.73	CP	SET REBAR 6 IN DEEP 30 FT SOUTH OF 130TH ST CL AT FENCE	143	9152479.63	13427441.53	1086.44	CP	SET REBAR 6 IN DEEP 53 FT EAST OF CL 180 FT NORTH OF FARM ENT
108	9156557.81	13422695.84	1079.62	CP	FD REBAR 6 IN DEEP 30 FT SOUTH OF 130TH ST 100 FT WEST OF TREE	144	9153864.57	13427467.49	1092.56	CP	SET REBAR 6 IN DEEP 38 FT EAST OF CL NORTH SIDE OF FIELD ENT
109	9167201.34	13424352.04	1161.98	CP	FD REBAR 6 IN DEEP 20 FT NORTH OF 110TH ST 530 FT WEST OF FARM ENT	145	9155321.18	13427529.19	1145.65	CP	SET REBAR 6 IN DEEP 58 FT EAST OF CL NORTH SIDE OF FENCE
110	9167602.09	13431749.77	1095.75	CP	FD REBAR 6 IN DEEP 24 FT SOUTH OF 110TH ST WEST SIDE OF FIELD ENT	146	9156592.29	13427457.94	1107.17	CP	SET REBAR 6 IN DEEP 52 FT WEST OF CL 40 FT SOUTH OF 130TH ST CL
111	9172565.41	13430532.79	1142.69	CP	FD REBAR 6 IN DEEP 63 FT NORTH OF IA 3 CL 45 FT SW OF 398TH CL	147	9157963.77	13427599.85	1105.72	CP	FD REBAR 6 IN DEEP 36 FT EAST OF CL 63 FT SOUTH OF PP
112	9172446.34	13425731.62	1135.93	CP	FD REBAR 6 IN DEEP 40 FT SOUTH OF 400TH ST 45 FT EAST OF CULVERT	148	9159286.59	13427564.38	1104.43	CP	FD REBAR 6 IN DEEP 51 FT WEST OF CL 31 FT SOUTH OF PP
113	9173253.97	13427674.30	1171.00	CP	FD REBAR 6 IN DEEP 77 FT NE OF CL 13 FT SE OF BILLBOARD	149	9160625.43	13427725.48	1076.09	CP	SET REBAR 6 IN DEEP 58 FT EAST OF CL 10 FT NORTH OF PIPE
114	9126978.75	13426726.67	961.96	CP	SET REBAR 6 IN DEEP 42 SOUTH OF 185TH ST ACROSS FORM HOUSE #16939	150	9162203.10	13427774.44	1131.86	CP	SET REBAR 6 IN DEEP 47 FT EAST OF CL 140 FT SOUTH OF PP
115	9121566.03	13430140.63	953.12	CP	FD REBAR 6 IN DEEP W CAP 4 FEET BEHIND CURB NORTH OF WINDSOR DR	151	9163243.30	13427778.90	1112.35	CP	SET REBAR 6 IN DEEP 44 FT EAST OF CL NORTH SIDE OF FIELD ENT
116	9122683.94	13425814.54	943.05	CP	FD MAG NAIL NW COR OF BRIDGE 195TH ST	152	9164363.14	13427685.82	1127.42	CP	CUT X ON ROW RAIL 53 FT WEST OF CL 17 FT SOUTH OF PP
117	9134714.93	13427604.45	1037.31	CP	SET REBAR 6 IN DEEP W/ ALUM. CAP 32 FT EAST OF CL NORTH OF FIELD ENT	153	9165757.49	13427793.10	1111.73	CP	SET REBAR 6 IN DEEP 49 FT EAST OF CL 100 FT SOUTH OF FIELD ENT
120	9124532.64	13428371.06	951.85	CP	SET REBAR 6 IN DEEP 48 FT EAST OF CL	154	9167195.05	13427702.90	1142.33	CP	SET REBAR 6 IN DEEP 47 FT WEST OF CL 44 FT NORTH OF 110 ST CL
121	9125928.89	13428325.25	953.30	CP	SET REBAR 6 IN DEEP 62 FT EAST OF CL 15 FT SOUTH OF FIELD ENT	155	9167648.42	13427803.78	1160.74	CP	SET REBAR 6 IN DEEP 47 FT EAST OF CL 24 FT NORTH OF PP
122	9127040.58	13428279.03	953.24	CP	SET REBAR 6 IN DEEP 54 FT EAST OF CL AT 185TH ST	156	9168946.09	13427776.34	1147.54	CP	SET REBAR 6 IN DEEP 43 FT WEST OF CL
123	9128616.20	13428220.96	984.65	CP	SET REBAR 6 IN DEEP 48 FT EAST OF CL SOUTH SIDE OF FIELD ENT	157	9170297.74	13427841.49	1148.83	CP	SET REBAR 6 IN DEEP 45 FT WEST OF CL
124	9129993.81	13428086.94	990.79	CP	FD REBAR 6 IN DEEP 45 FT WEST OF CL 47 FT NORTH OF 180TH ST	158	9171305.63	13427956.13	1165.63	CP	SET REBAR 6 IN DEEP 22 FT EAST OF CL 85 FT NORTH OF PIPE
125	9130911.52	13428206.35	1018.27	CP	SET REBAR 6 IN DEEP 42 FT EAST OF CL 105 FT SOUTH OF RES ENT						
126	9132234.92	13428163.03	1014.19	CP	SET REBAR 6 IN DEEP 51 FT WEST OF CL 23 FT NORTH OF PP						
127	9133529.21	13428301.41	1029.12	CP	SET REBAR 6 IN DEEP 58 FT EAST OF CL 50 FT SOUTH OF FARM ENT						
128	9134525.69	13427780.45	1043.43	CP	SET REBAR 6 IN DEEP 52 FT EAST OF CL 12 FT SE OF FARM ENT						
129	9135566.27	13427113.17	1018.46	CP	SET REBAR 6 IN DEEP 53 FT EAST OF CL SOUTH SIDE OF FIELD ENT						
130	9136694.59	13426993.96	1059.95	CP	SET REBAR 6 IN DEEP 50 FT WEST OF CL 120 FT NORTH OF SIGN						
131	9138002.20	13427135.72	1058.79	CP	SET REBAR 6 IN DEEP 50 FT EAST OF CL 43 FT SOUTH OF 165TH ST CL						
132	9139371.31	13427192.45	1026.19	CP	SET REBAR 6 IN DEEP 67 FT EAST OF CL 14 FT SOUTH OF FIELD ENT						
133	9140721.13	13427224.26	1015.91	CP	SET REBAR 6 IN DEEP 59 FT EAST OF CL NW OF PP						
134	9142038.67	13427154.53	1019.07	CP	CUT X ON ROW RAIL 41 FT WEST OF CL						
135	9143366.41	13427236.14	1023.65	CP	SET REBAR 6 IN DEEP 23 FT EAST OF CL AT 155TH ST INTERSECTION						

# HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

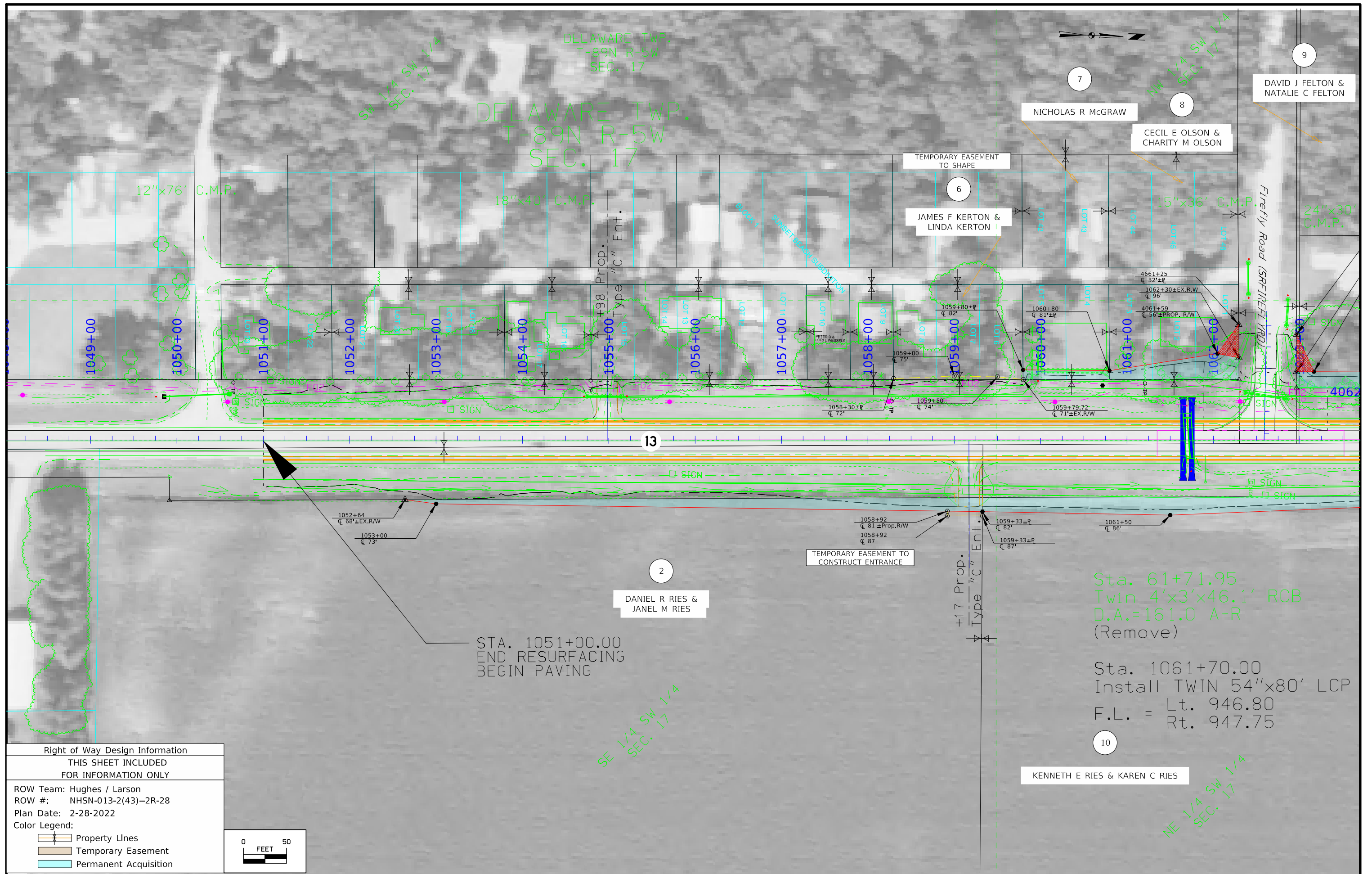
HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

## Ia. Regional Coordinate System Zone 3

500	9124367.87	13428304.94	953.41	BM	SET RR SPK E SIDE PP 50 FT WEST OF CL	536	9157819.84	13427602.50	1105.61	BM	SET RR SPK W SIDE PP 45 FT EAST OF CL
501	9125015.63	13428335.26	956.41	BM	CUT X ON ROW RAIL 42 FT EAST OF CL 50 FT NORTH OF FIREFLY RD	538	9158871.98	13427643.70	1092.79	BM	SET RR SPK W SIDE PP 45 EAST OF CL 146 FT NORTH OF PIPE
502	9126252.25	13428205.88	952.15	BM	FD BARN SPIKE 46 FT WEST OF CL 33 FT SOUTH OF FIREFLY RD	539	9159694.28	13427655.07	1093.66	BM	FD IHC BM ON INHDWL EAST SIDE
503	9126333.77	13428188.76	954.23	BM	CUT X ON ROW RAIL 60 FT WEST OF CL	540	9160764.89	13427618.51	1075.62	BM	SET RR SPK E SIDE PP 54 FT WEST OF CL 146 NORTH OF PIPE
504	9127073.13	13428145.74	956.48	BM	CUT A SQUARE ON SOUTH CORNER FAWN TRAIL SIGN	541	9162343.30	13427772.27	1121.83	BM	SET RR SPK W SIDE PP 42 FT EAST OF CL 45 FT SOUTH OF ENT
505	9128378.46	13428138.74	980.67	BM	SET RR SPK E SIDE PP 42 FT WEST OF CL	542	9162884.26	13427758.79	1102.50	BM	FD IHC BM ON IN HDWL
506	9129981.76	13428086.45	991.42	BM	SET RR SPK E SIDE PP 45 FT WEST OF CL 35 FT NORTH OF 180TH ST	543	9163480.59	13427758.23	1110.37	BM	FD IHC BM ON IN HDWL
507	9131298.93	13428227.31	1013.60	BM	CUT X ON ROW RAIL 48 FT EAST OF CL SOUTH SIDE OF FIELD ENT	544	9164747.64	13427767.74	1107.38	BM	FD IHC BM ON IN HDWL 60 FT NORTH OF FIELD ENT
508	9131931.03	13428151.38	1008.81	BM	SET RR SPK SE SIDE PP 51 FT WEST OF CL	545	9166298.36	13427681.72	1116.18	BM	FD RR SPK E SIDE PP 65 FT WEST OF CL
509	9132848.53	13428185.66	1020.72	BM	FD RR SPK E SIDE PP 51 FT WEST OF CL	546	9167199.65	13427699.85	1143.95	BM	CUT X ON ROW RAIL 50 FT WEST OF CL 50 FT NORTH OF 110TH ST CL
510	9133536.88	13428198.69	1025.00	BM	SET RR SPK E SIDE PP 42 FT WEST OF CL	547	9167834.12	13427813.87	1155.36	BM	CUT X ON ROW RAIL 49 FT EAST OF CL 9 FT SOUTH OF PP
511	9134578.81	13427595.87	1038.06	BM	CUT X ON ROW RAIL 59 FT WEST OF CL 57 FT SE OF FARM ENT	548	9169153.50	13427875.31	1151.51	BM	SET RR SPK W SIDE PP 46 FT EAST OF CL 185 FT SOUTH OF FIELD ENT
512	9135381.15	13427053.04	1013.40	BM	CUT X ON ROW RAIL 60 FT WEST OF CL NEAR CORNER POST	549	9169829.91	13427809.79	1146.65	BM	CUT X ON ROW RAIL 53 FT WEST OF CL 31 FT SOUTH OF PIPE
513	9137074.28	13427109.24	1060.21	BM	SET RR SPK W SIDE PP 52 FT EAST OF CL 200 FT NORTH OF FIELD ENT	550	9170893.14	13427958.47	1161.97	BM	SET RR SPK W SIDE PP 43 FT EAST OF CL 30 FT NORTH OF FIELD ENT
514	9138093.51	13427158.50	1058.74	BM	CUT X ON ROW RAIL 70 EAST OF CL 45 FT NORTH OF 165TH ST CL	551	9171558.18	13427859.82	1166.25	BM	SET RR SPK E SIDE PP 68 FT WEST OF CL
515	9139403.13	13427194.82	1025.92	BM	SET RR SPK W SIDE PP 68 FT EAST OF CL 18 FT NORTH OF FIELD ENT						
516	9140716.19	13427232.57	1017.22	BM	FD RR SPKW SIDE PP 68 FT EAST OF CL						
517	9142038.67	13427154.53	1019.07	BM	CUT X ON ROW RAIL 41 FT WEST OF CL						
518	9142692.99	13427222.81	1018.71	BM	FD IHC BM ON INHDWL EAST SIDE						
519	9143804.03	13427136.15	1034.70	BM	SET RR SPK E SIDE PP 83 FT WEST OF CL 115 FT NORTH OF PIPE						
520	9144319.69	13427139.48	1040.88	BM	FD RR SPK E SIDE PP 86 FT WEST OF CL 175 FT NORTH OF PIPE						
521	9145397.75	13427149.63	1049.69	BM	FD RR SPK E SIDE PP 91 FT WEST OF CL 175 FT NORTH OF RES ENT						
522	9145972.96	13427158.95	1055.54	BM	SET RR SPK E SIDE PP 89 FT WEST OF CL 64 FT SOUTH OF 150 ST CL						
523	9146583.33	13427219.26	1063.36	BM	FD RR SPK E SIDE PP 37 FT WEST OF CL AT FARM ENT						
524	9147863.97	13427235.09	1071.92	BM	SET RR SPK E SIDE PP 38 FT WEST OF CL 55 FT SOUTH OF FARM ENT						
525	9148696.26	13427351.26	1057.73	BM	CUT X ON ROW RAIL 60 FT EAST OF CL AT CORNER OF CROPPFIELD						
526	9150017.75	13427262.76	1048.97	BM	CUT X ON ROW RAIL 60 FT WEST OF CL 52 FT NORTH OF FIELD ENT						
527	9150953.48	13427403.68	1077.07	BM	CUT X ON ROW RAIL 59 FT EAST OF CL 18 FT SOUTH OF FARM ENT						
528	9151347.00	13427415.94	1065.73	BM	CUT X ON ROW RAIL 60 FT EAST OF CL AT 140TH ST INTERSECTION						
529	9152770.85	13427336.24	1066.14	BM	SET RR SPK E SIDE PP 61 FT WEST OF CL 20 FT SOUTH OF PIPE						
530	9152786.49	13427424.88	1069.31	BM	FD IHC BM ON INHDWL EAST SIDE						
531	9153991.57	13427491.43	1096.47	BM	CUT X ON ROW RAIL 59 FT EAST OF CL 135 FT NORTH OF FIELD ENT						
532	9154427.31	13427386.57	1105.55	BM	SET RR SPK E SIDE PP 59 FT WEST OF CL 118 SOUTH OF PIPE						
533	9155933.32	13427543.17	1112.71	BM	SET RR SPK W SIDE PP 58 FT EAST OF CL 10 FT SOUTH OF PIPE						
534	9156600.53	13427447.03	1109.06	BM	CUT X ON ROW RAIL 63 FT WEST OF CL 30 FT SOUTH OF 130TH ST CL						
535	9157081.97	13427558.75	1093.01	BM	FD IHC BM ON INHDWL EAST SIDE						

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.



DELAWARE TWP.  
T-89N R-5W  
SEC. 17

DELAWARE TWP.  
T-89N R-5W  
SEC. 17

Sta. 61+71.95  
Twin 4'x3'x46.1' RCB  
D.A.=161.0 A-R  
(Remove)

Sta. 1061+70.00  
Install TWIN 54"x80' LCP  
F.L. = Lt. 946.80  
Rt. 947.75

STA. 1051+00.00  
END RESURFACING  
BEGIN PAVING

DANIEL R RIES &  
JANEL M RIES

JAMES F KERTON &  
LINDA KERTON

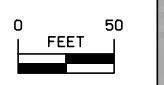
CECIL E OLSON &  
CHARITY M OLSON

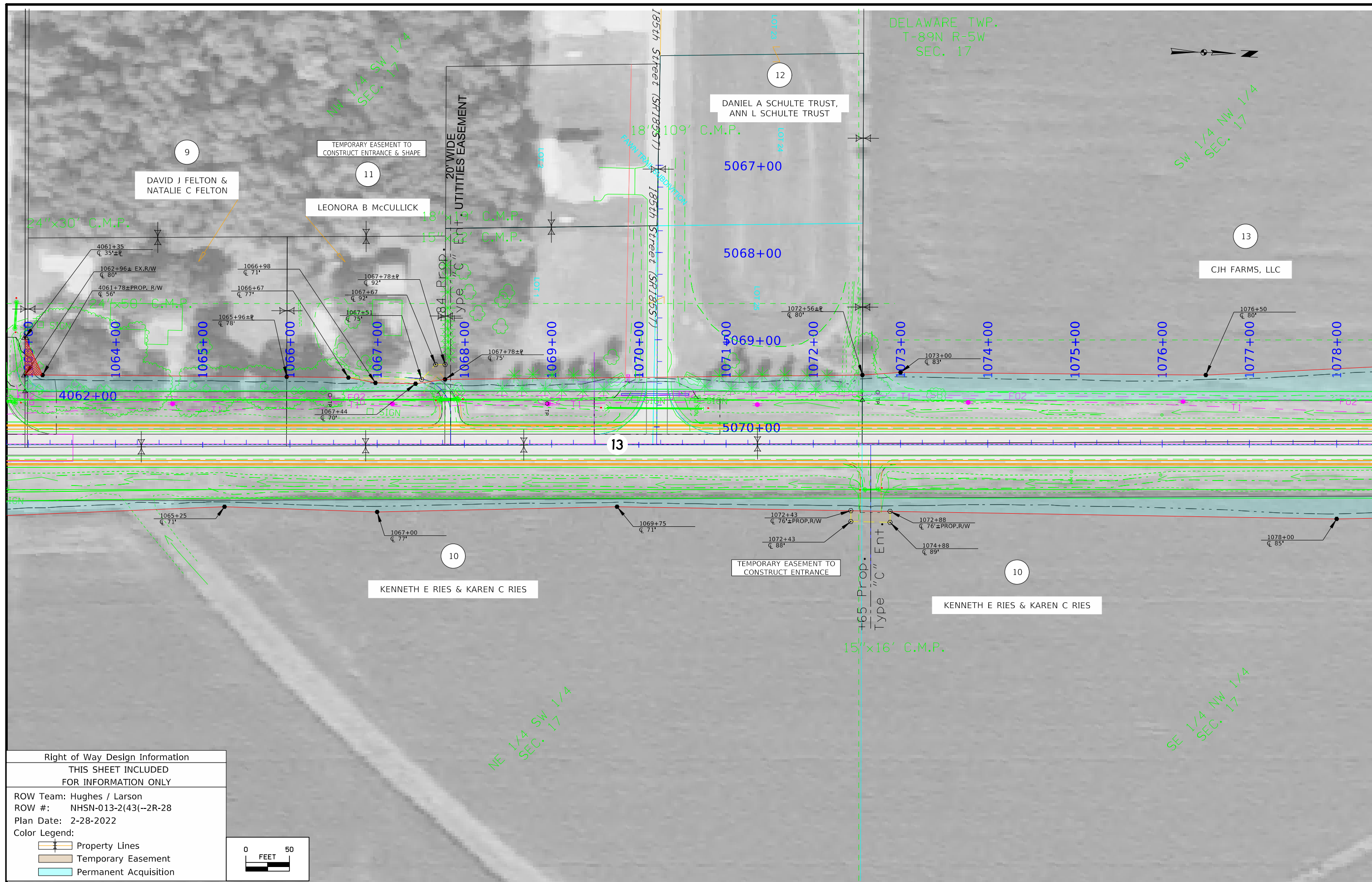
NICHOLAS R MCGRAW

DAVID J FELTON &  
NATALIE C FELTON

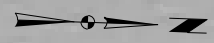
KENNETH E RIES & KAREN C RIES

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	2-28-2022
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

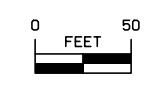




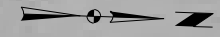
DELAWARE TWP.  
T-89N R-5W  
SEC. 17



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

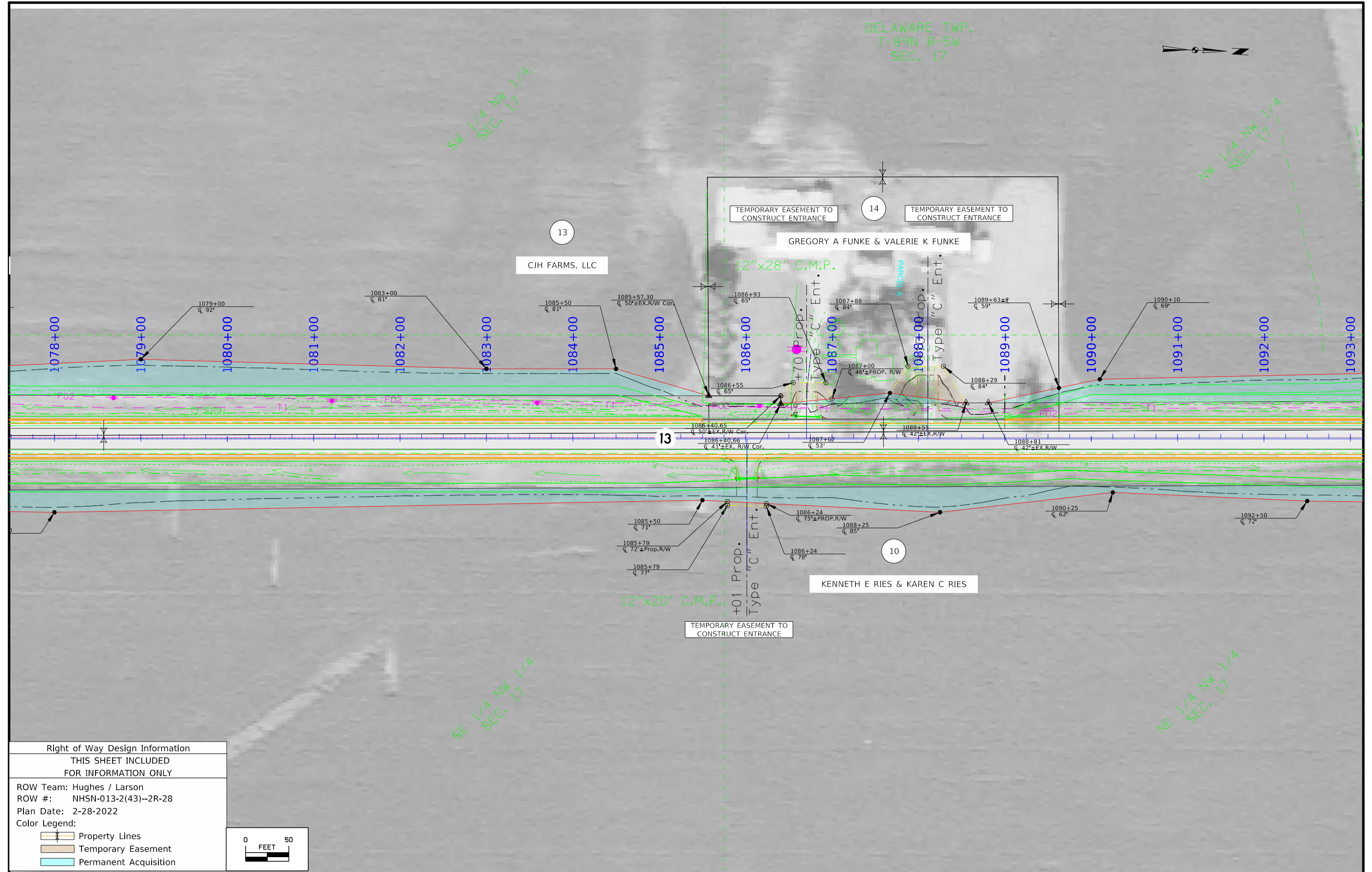


DELAWARE TWP.  
T-89N R-5W  
SEC. 17



SW 1/4 NW 1/4  
SEC. 17

NW 1/4 NW 1/4  
SEC. 17

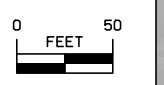


13  
CJH FARMS, LLC

14  
TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE  
GREGORY A FUNKE & VALERIE K FUNKE

10  
KENNETH E RIES & KAREN C RIES

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



DELAWARE TWP.  
T-89N R-5W  
SEC. 17

DELAWARE TWP.  
T-89N R-5W  
SEC. 8

SW 1/4 SW 1/4  
SEC. 8

NW 1/4 NW 1/4  
SEC. 17

13  
CJH FARMS, LLC

15  
JOHN G HOFFMANN & LORIE N HOFFMANN

10  
KENNETH E RIES & KAREN C RIES

16  
RONALD LEE KLEIN & PAMELA GERALYN KLEIN

Sta. 93+74.36  
2'x2'x43.6' RCB  
W/ 30"x6' Conc.  
Pipe Inlet Ext.  
D.A.=10.0 A-R  
(Remove)

Sta. 1093+75.00  
Install 30"x88' RCP  
F.L. = Lt. 981.50  
Rt. 984.38

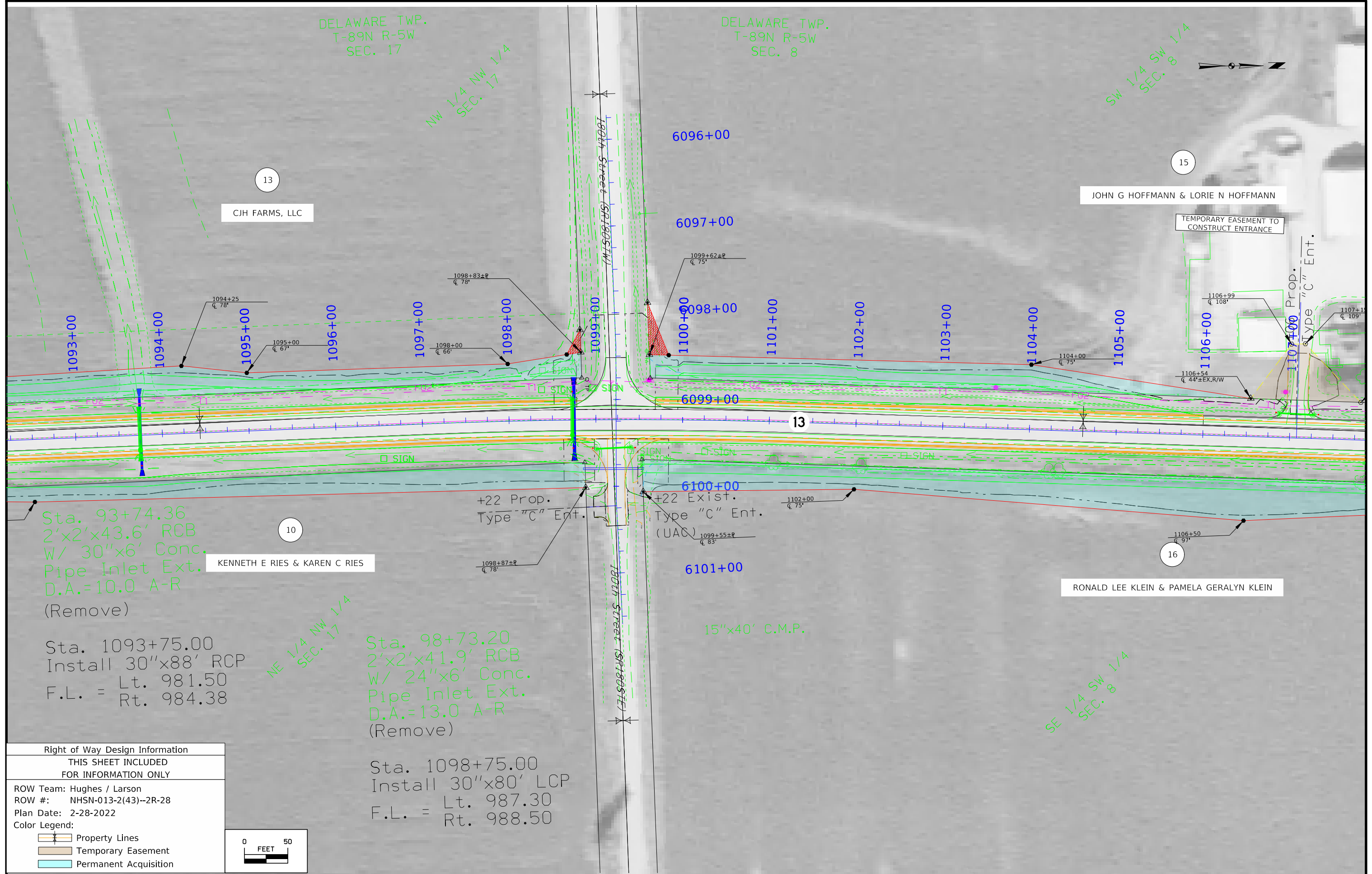
NE 1/4 NW 1/4  
SEC. 17

Sta. 98+73.20  
2'x2'x41.9' RCB  
W/ 24"x6' Conc.  
Pipe Inlet Ext.  
D.A.=13.0 A-R  
(Remove)

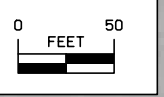
Sta. 1098+75.00  
Install 30"x80' LCP  
F.L. = Lt. 987.30  
Rt. 988.50

15"x40' C.M.P.

SE 1/4 SW 1/4  
SEC. 8

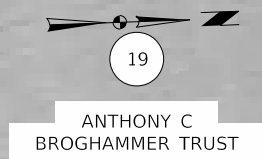


Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	2-28-2022
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





DELAWARE TWP.  
T-89N R-5W  
SEC. 8



SW 1/4 SW 1/4  
SEC. 8

NW 1/4 SW 1/4  
SEC. 8

JOHN G HOFFMANN & LORIE N HOFFMANN

ROBERT G NAEVE &  
KARY L NAEVE

DAVID A BROGHAMMER

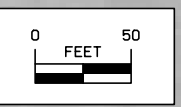
RONALD LEE KLEIN & PAMELA GERALYN KLEIN



Sta. 119+12.63  
2'x2'x48.8' RCB  
D.A.=22.0 A-R  
(Remove)

Sta. 1119+10.00  
Install 30"x92' RCP  
F.L. = Lt. 1003.32  
Rt. 1000.28

Right of Way Design Information	
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ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



DELAWARE TWP.  
T-89N R-5W  
SEC. 8

NW 1/4 SW 1/4  
SEC. 8

SW 1/4 NW 1/4  
SEC. 8

(Remove)

Sta. 1135+90.00  
Install 30"x104' RCP  
Lt. 1019.20  
F.L. = Rt. 1027.05

Sta. 136+00.50  
2'x2'x49.5' RCB  
W/ 30"x6' Conc.  
Pipe Outlet Ext.  
D.A.=10.0 A-R

ANTHONY C BROGHAMMER TRUST

RONALD LEE KLEIN & PAMELA GERALYN KLEIN

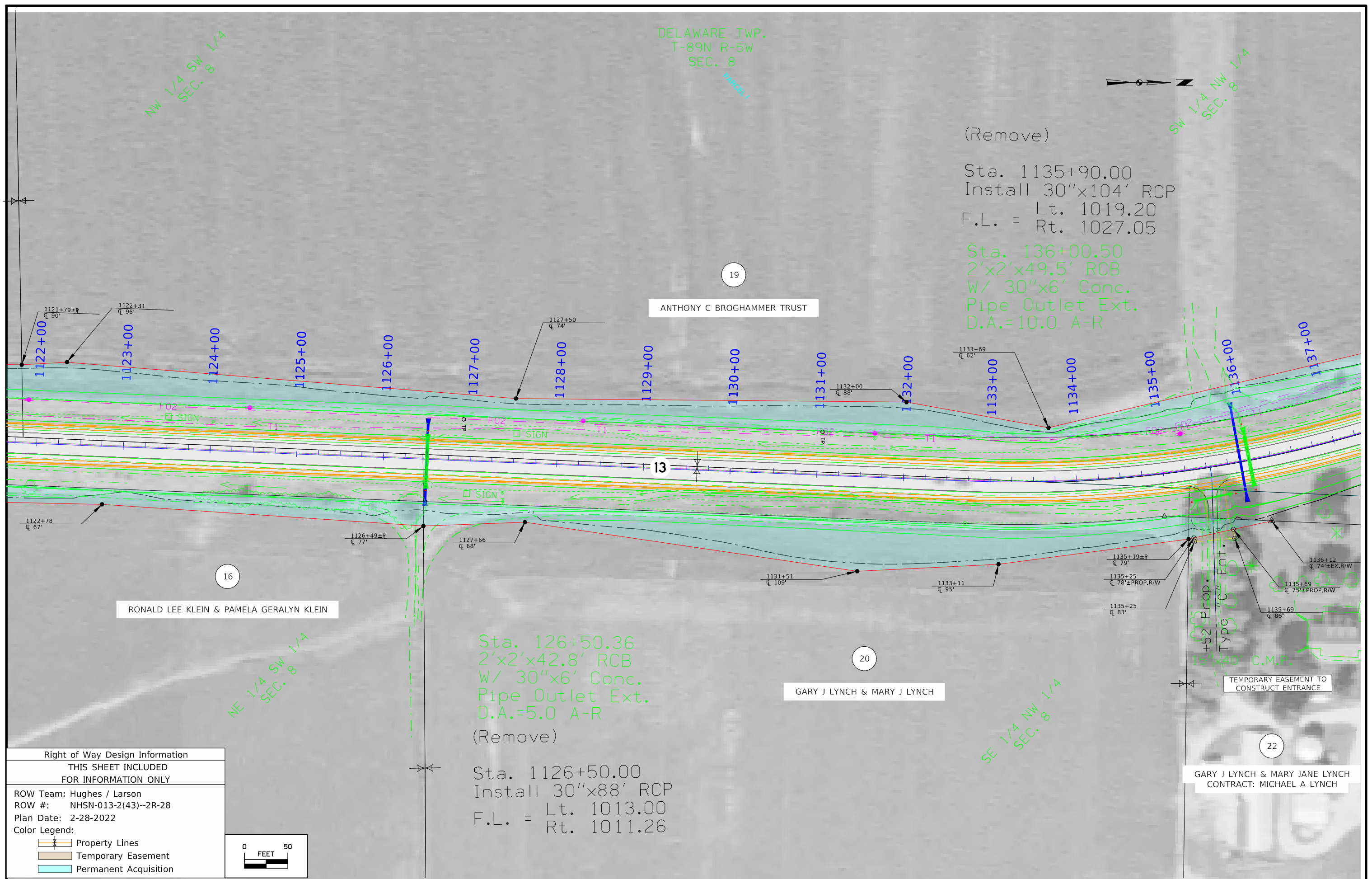
GARY J LYNCH & MARY J LYNCH

GARY J LYNCH & MARY JANE LYNCH  
CONTRACT: MICHAEL A LYNCH

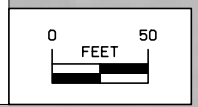
Sta. 126+50.36  
2'x2'x42.8' RCB  
W/ 30"x6' Conc.  
Pipe Outlet Ext.  
D.A.=5.0 A-R

(Remove)

Sta. 1126+50.00  
Install 30"x88' RCP  
Lt. 1013.00  
F.L. = Rt. 1011.26

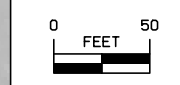


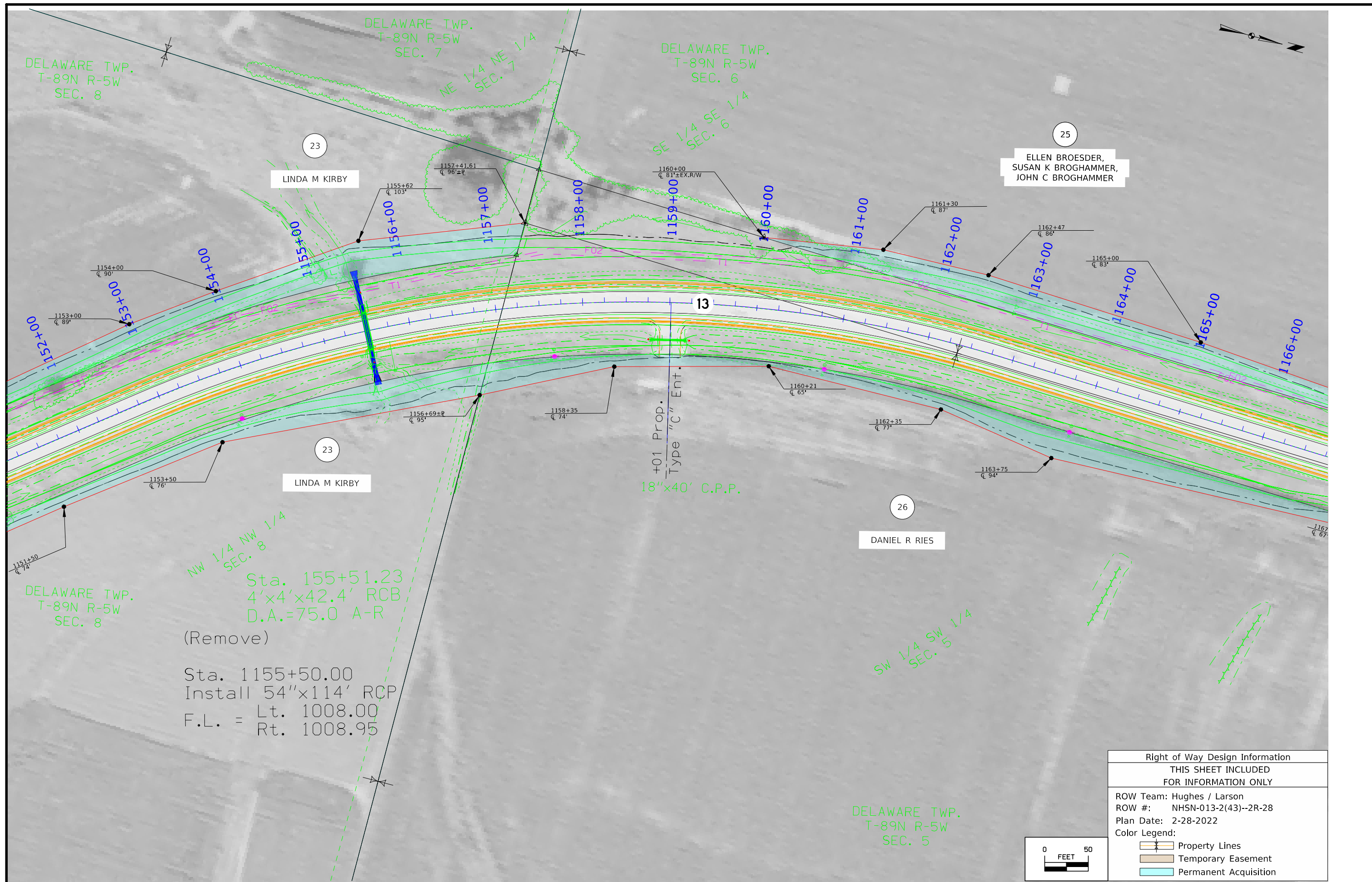
Right of Way Design Information	
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ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
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	Property Lines
	Temporary Easement
	Permanent Acquisition





DELAWARE TWP.  
T-89N R-5W  
SEC. 8

DELAWARE TWP.  
T-89N R-5W  
SEC. 7

DELAWARE TWP.  
T-89N R-5W  
SEC. 6

DELAWARE TWP.  
T-89N R-5W  
SEC. 8

DELAWARE TWP.  
T-89N R-5W  
SEC. 5

LINDA M KIRBY

LINDA M KIRBY

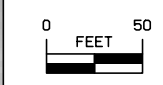
DANIEL R RIES

ELLEN BROESDER,  
SUSAN K BROGHAMMER,  
JOHN C BROGHAMMER

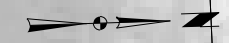
Sta. 155+51.23  
4'x4'x42.4' RCB  
D.A.=75.0 A-R  
(Remove)  
Sta. 1155+50.00  
Install 54"x114' RCP  
F.L. = Lt. 1008.00  
Rt. 1008.95

+01 Prop.  
Type "C" Ent.  
18"x40' C.P.P.

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Plan Date: 2-28-2022	
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	Property Lines
	Temporary Easement
	Permanent Acquisition



DELAWARE TWP.  
T-89N R-5W  
SEC. 6



SE 1/4 SE 1/4  
SEC. 6

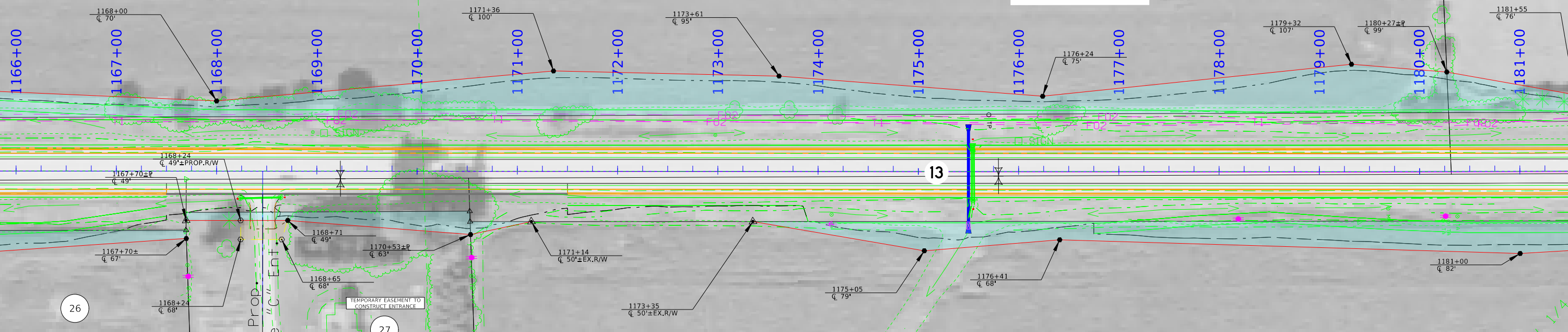
NE 1/4 SE 1/4  
SEC. 6

29

ROGER D &  
CONNIE GROTH

25

ELLEN BROESDER,  
SUSAN K BROGHAMMER,  
JOHN C BROGHAMMER



26

DANIEL R RIES

145 Prop.  
Type "C" ENT

27

KENNETH L JR. &  
WANDA A LINDERWELL

28

GILBERT A & MAUREEN E HOFFMANN

Sta. 175+54.62  
2'x2'x49.8' RCB  
w/ Conc. Inlet Apron  
D.A.=9.0 A-R  
(Remove)

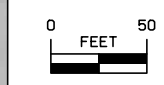
Sta. 1175+50.00  
Install 30"x96' RCP  
F.L. = Lt. 1060.47  
Rt. 1056.10

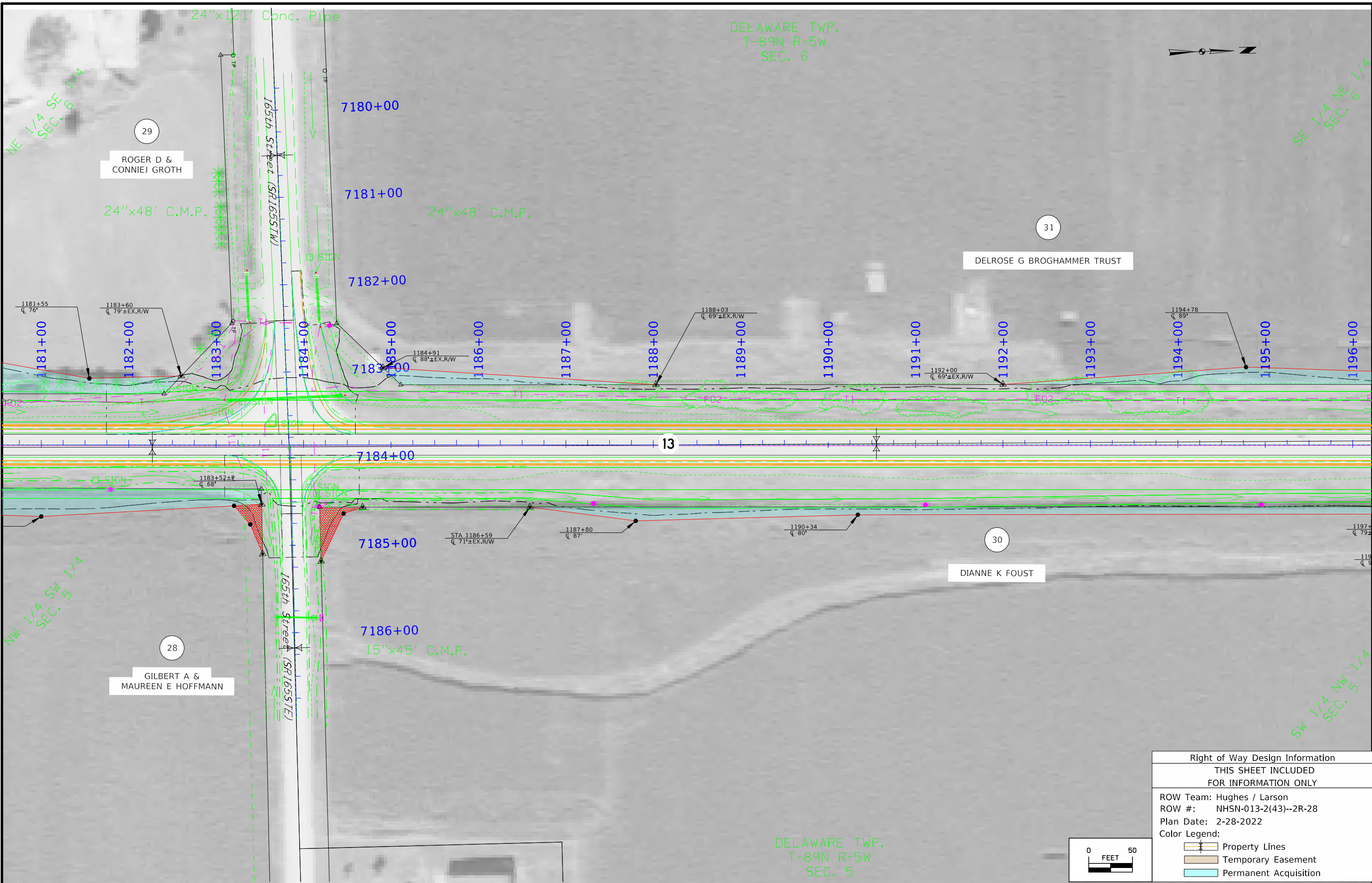
NW 1/4 SW 1/4  
SEC. 5

SW 1/4 SW 1/4  
SEC. 5

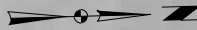
DELAWARE TWP.  
T-89N R-5W  
SEC. 5

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ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	2-28-2022
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





DELAWARE TWP.  
T-89N R-5W  
SEC. 6



NE 1/4 SE 1/4  
SEC. 6

SE 1/4 NE 1/4  
SEC. 6

29  
ROGER D &  
CONNIE J GROTH

31  
DELROSE G BROGHAMMER TRUST

24"x48' C.M.P.

24"x48' C.M.P.

1181+55  
C 76'  
1182+00  
1183+60  
C 79'±EX.R/W

1188+03  
C 69'±EX.R/W

1194+78  
C 89'

1183+52+P  
C 58'

STA 1186+59  
C 71'±EX.R/W

1187+80  
C 87'

1190+34  
C 80'

1197+  
C 79'

119  
C 8

NW 1/4 SW 1/4  
SEC. 5

28  
GILBERT A &  
MAUREEN E HOFFMANN

30  
DIANNE K FOUST

7186+00  
15"x45' C.M.P.

SW 1/4 NW 1/4  
SEC. 5

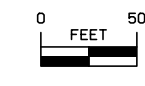
DELAWARE TWP.  
T-89N R-5W  
SEC. 5

Right of Way Design Information  
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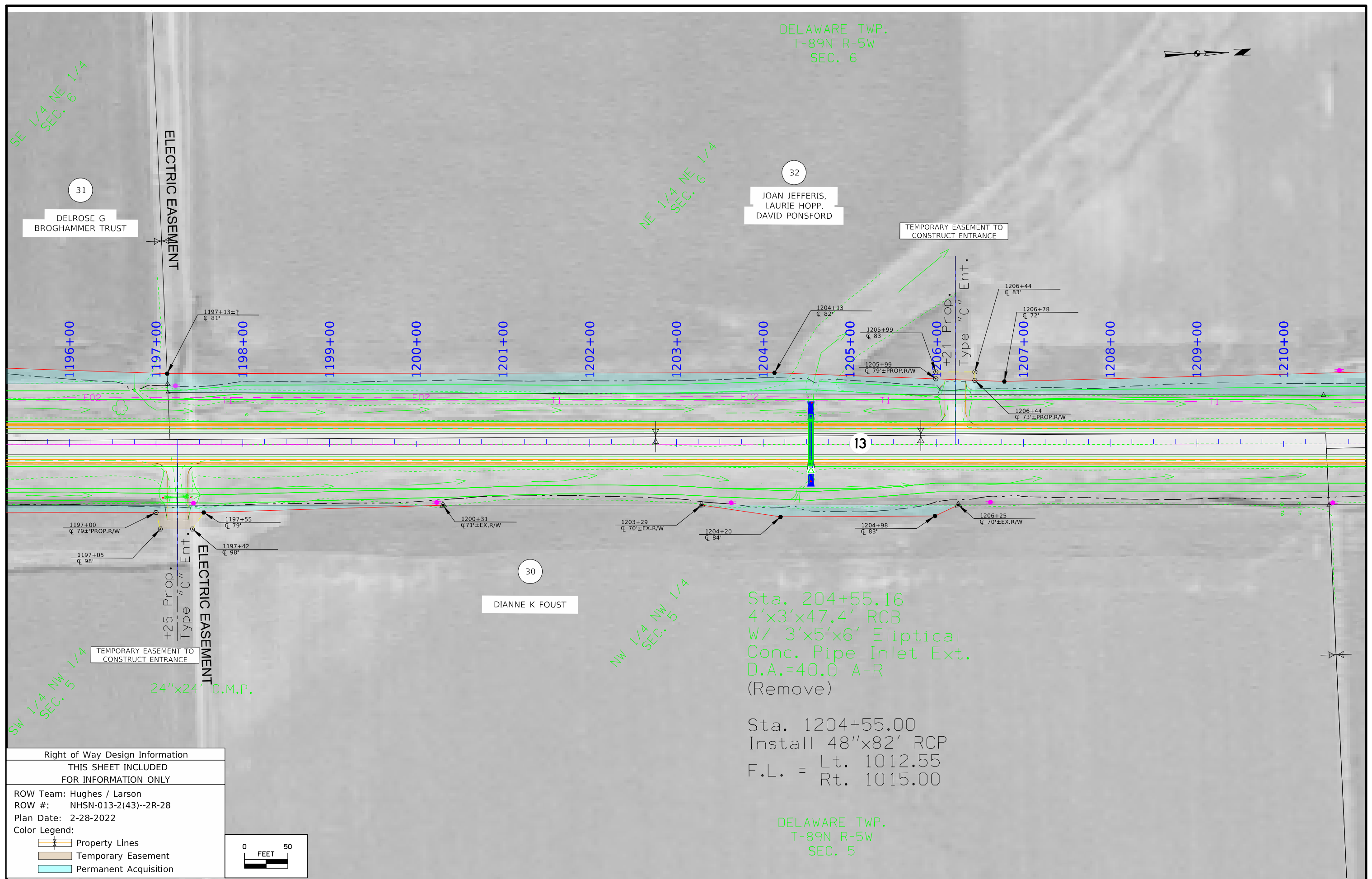
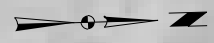
ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022

Color Legend:  

- Property Lines
- Temporary Easement
- Permanent Acquisition



DELAWARE TWP.  
T-89N R-5W  
SEC. 6



32  
JOAN JEFFERIS,  
LAURIE HOPP,  
DAVID PONSFORD

30  
DIANNE K FOUST

Sta. 204+55.16  
4'x3'x47.4' RCB  
W/ 3'x5'x6' Elliptical  
Conc. Pipe Inlet Ext.  
D.A.=40.0 A-R  
(Remove)

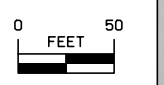
Sta. 1204+55.00  
Install 48"x82' RCP  
F.L. = Lt. 1012.55  
Rt. 1015.00

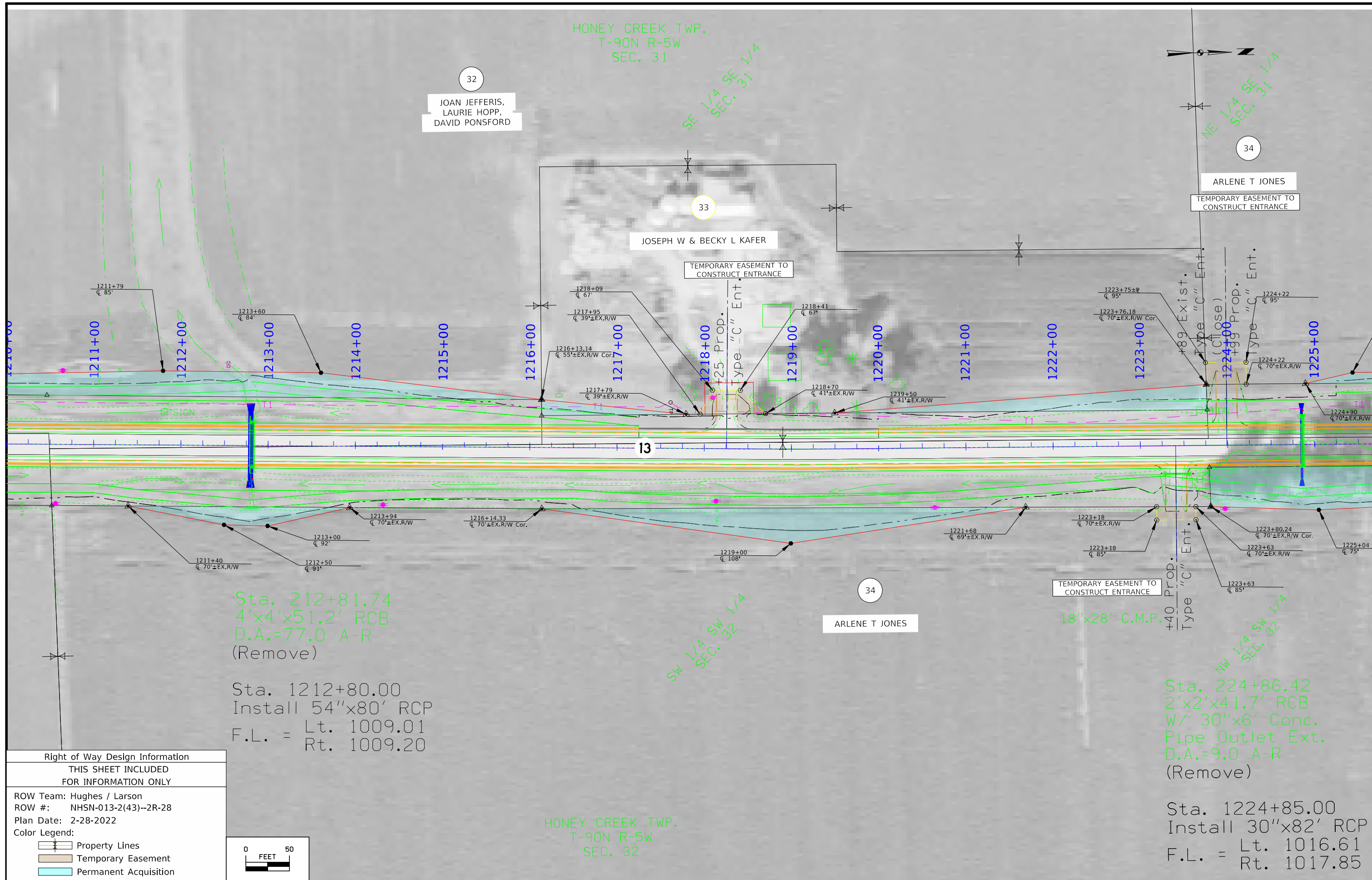
DELAWARE TWP.  
T-89N R-5W  
SEC. 5

Right of Way Design Information  
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FOR INFORMATION ONLY

ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022

Color Legend:  
 Property Lines  
 Temporary Easement  
 Permanent Acquisition





32  
 JOAN JEFFERIS,  
 LAURIE HOPP,  
 DAVID PONSFORD

33  
 JOSEPH W & BECKY L KAFER  
 TEMPORARY EASEMENT TO  
 CONSTRUCT ENTRANCE

34  
 ARLENE T JONES  
 TEMPORARY EASEMENT TO  
 CONSTRUCT ENTRANCE

34  
 ARLENE T JONES

Sta. 1212+81.74  
 4'x4'x51.2' RCB  
 D.A.=77.0 A-R  
 (Remove)

Sta. 1212+80.00  
 Install 54"x80' RCP  
 F.L. = Lt. 1009.01  
 Rt. 1009.20

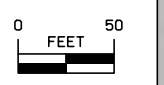
18"x28' C.M.P.  
 TEMPORARY EASEMENT TO  
 CONSTRUCT ENTRANCE

Sta. 224+86.42  
 2'x2'x41.7' RCB  
 W/ 30"x6' Conc.  
 Pipe Outlet Ext.  
 D.A.=9.0 A-R  
 (Remove)

Sta. 1224+85.00  
 Install 30"x82' RCP  
 F.L. = Lt. 1016.61  
 Rt. 1017.85

HONEY CREEK TWP.  
 T-90N R-5W  
 SEC. 32

Right of Way Design Information	
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ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





HONEY CREEK TWP.  
T-90N R-5W  
SEC. 31

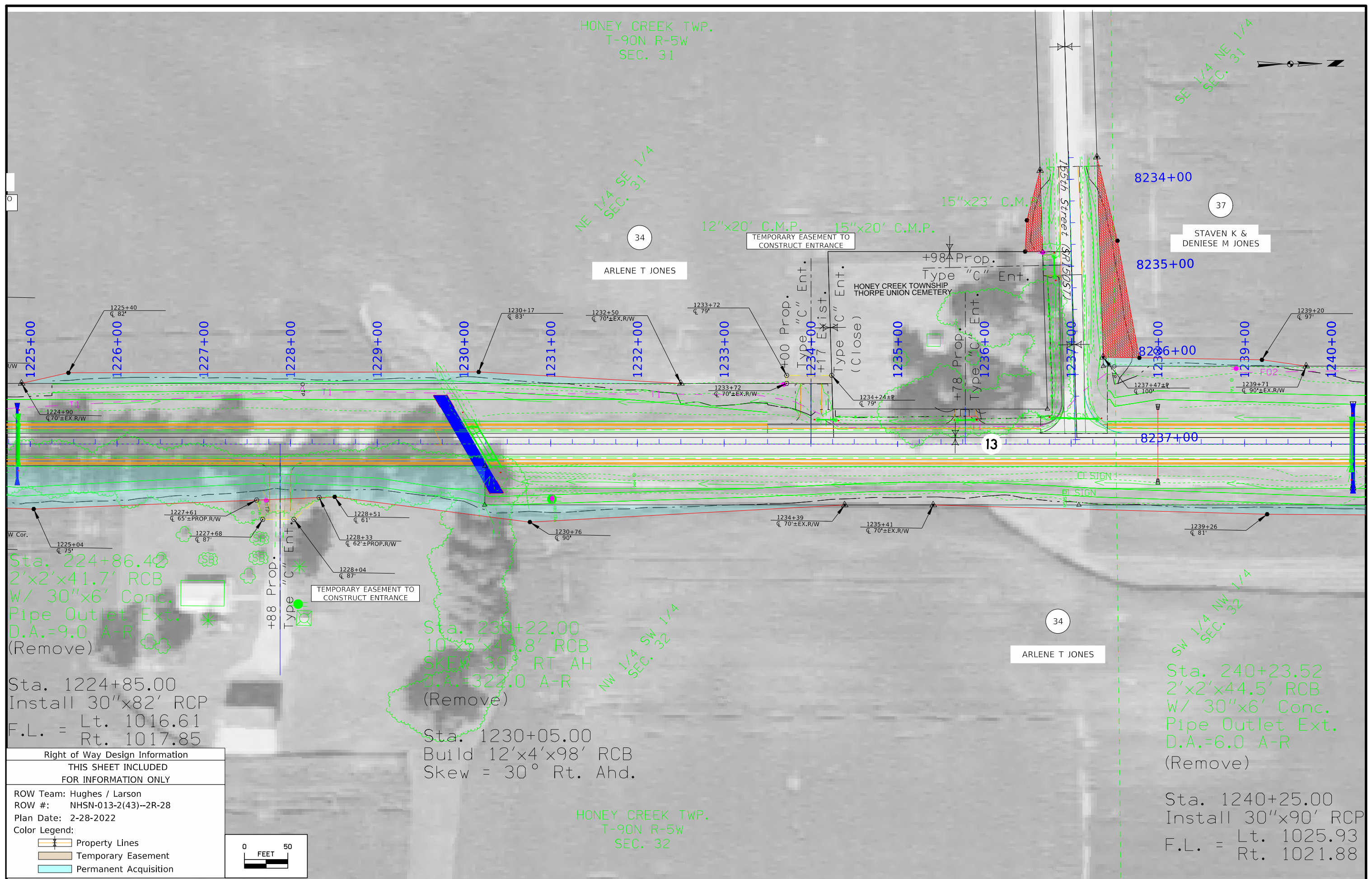
SE 1/4 NE 1/4  
SEC. 31

NE 1/4 SE 1/4  
SEC. 31

NW 1/4 SW 1/4  
SEC. 32

SW 1/4 NW 1/4  
SEC. 32

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 32



Sta. 224+86.40  
2'x2'x41.7' RCB  
W/ 30"x6' Conc.  
Pipe Outlet Ext.  
D.A.=9.0 A-R  
(Remove)

Sta. 230+22.00  
10'x5'x43.8' RCB  
SKEW 30° RT AH  
D.A.=322.0 A-R  
(Remove)

Sta. 1230+05.00  
Build 12'x4'x98' RCB  
Skew = 30° Rt. Ahd.

Sta. 240+23.52  
2'x2'x44.5' RCB  
W/ 30"x6' Conc.  
Pipe Outlet Ext.  
D.A.=6.0 A-R  
(Remove)

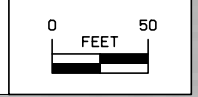
Sta. 1240+25.00  
Install 30"x90' RCP  
F.L. = Lt. 1025.93  
Rt. 1021.88

Sta. 1224+85.00  
Install 30"x82' RCP  
F.L. = Lt. 1016.61  
Rt. 1017.85

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ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022

Color Legend:  
Property Lines  
Temporary Easement  
Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 31

Sta. 254+02.25  
24"x73' Conc. Pipe  
D.A.=10.0 A-R

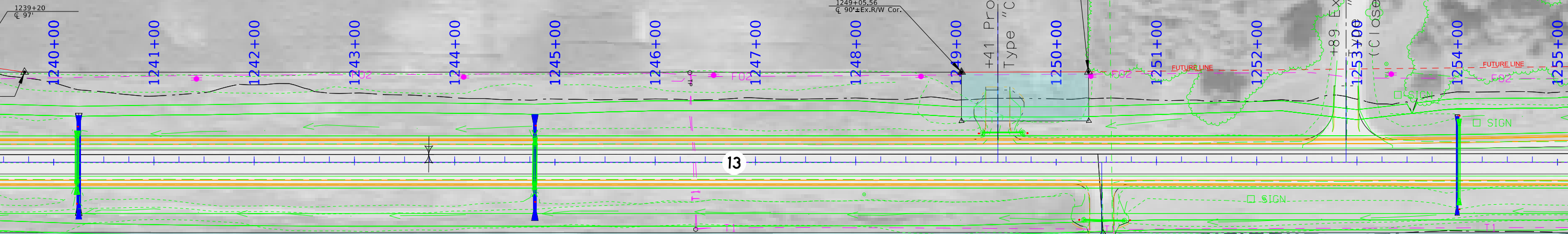
(Remove)

Sta. 1254+00.00  
Install 24"x86' RCP  
F.L. = Lt. 1041.90  
Rt. 1040.25

COUNTY DOES NOT WANT TO MAINTAIN THIS ROAD SIDE PARK  
STATE IS GOING TO ABANDON SOME OF THIS EASEMENT  
NEED TO KNOW WHAT TO RETAIN FOR THIS PROJECT

STAVEN K & DENIESE M JONES

STATE OF IOWA



Sta. 240+23.52  
2'x2'x44.5' RCB  
W/ 30"x6' Conc.  
Pipe Outlet Ext.  
D.A.=6.0 A-R  
(Remove)

Sta. 244+80.23  
3'x2'x39.2' RCB  
W/ 3'x2'x6' Elip. Conc.  
Pipe Inlet & Outlet Ext.  
D.A.=34.0 A-R

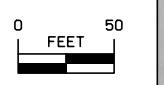
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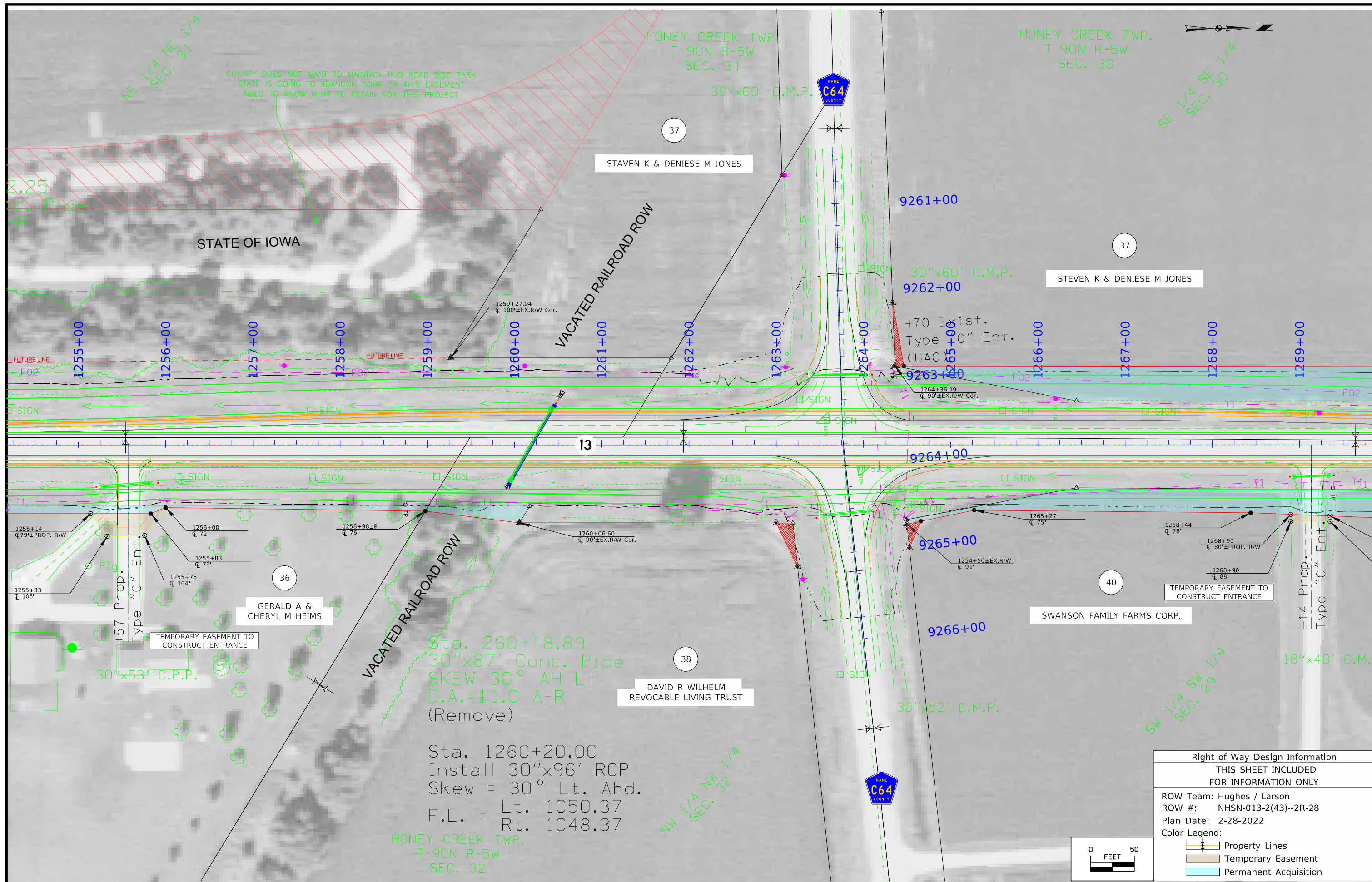
Sta. 1240+25.00  
Install 30"x90' RCP  
F.L. = Lt. 1025.93  
Rt. 1021.88

Sta. 1244+80.00  
Install 36"x90' RCP  
F.L. = Lt. 1032.60  
Rt. 1028.30

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 32

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	Permanent Acquisition

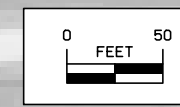




FILE NO.	ENGLISH	DESIGN TEAM STRUM / PRINDLE / McNAMARA	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER H.15
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2:42:43 PM 3/16/2022 CHUGHES pw:\NTP\wint1.dot.int.lan:PWMain\Documents\Projects\2801301018\ROW\28013043.dgn

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Color Legend:	
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	Temporary Easement
	Permanent Acquisition

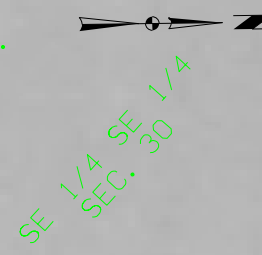


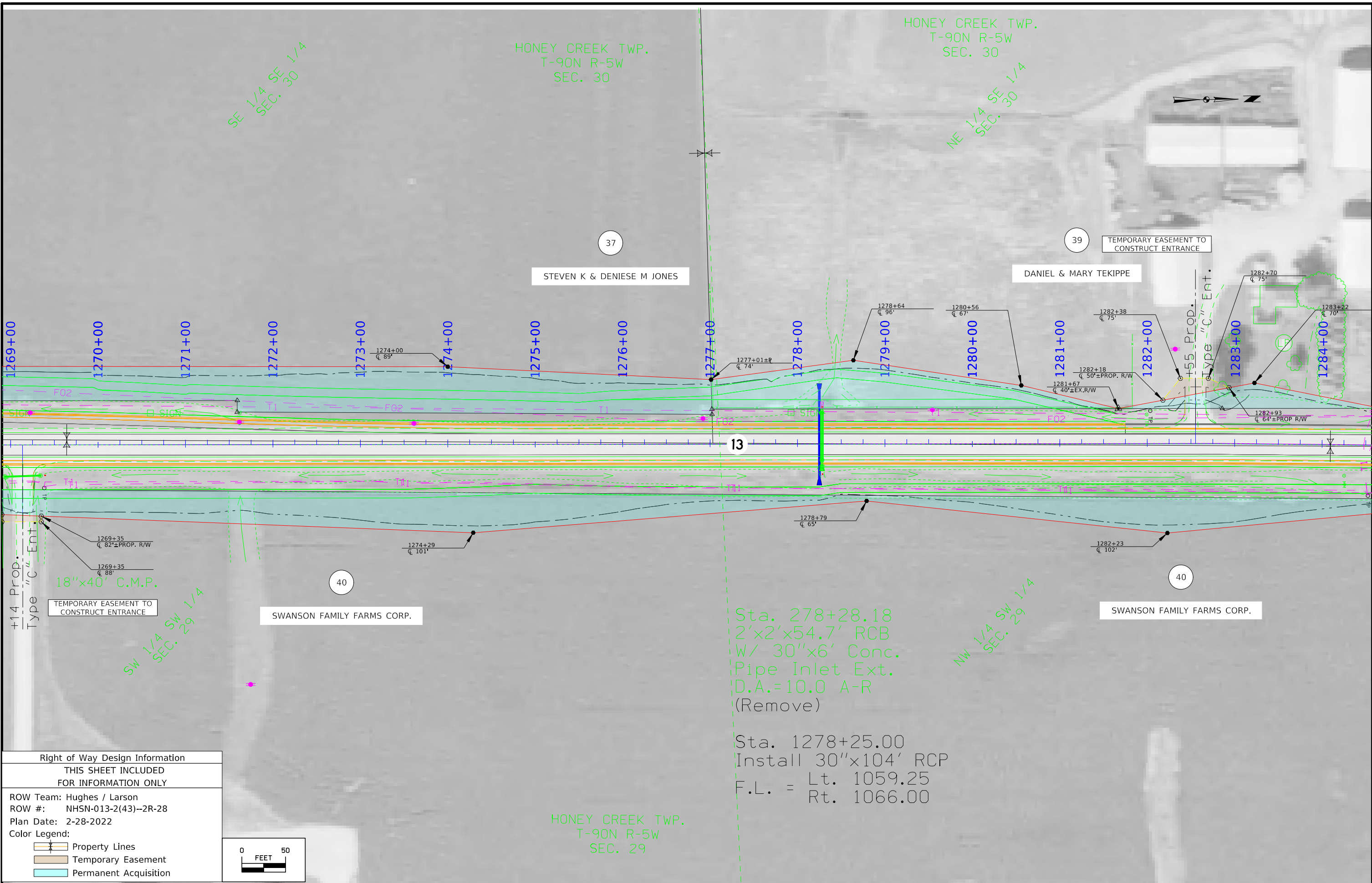
Sta. 260+18.89  
 30"x87' Conc. Pipe  
 SKEW 30° AH LT  
 D.A.=11.0 A-R  
 (Remove)

Sta. 1260+20.00  
 Install 30"x96' RCP  
 Skew = 30° Lt. Ahd.  
 F.L. = Lt. 1050.37  
 Rt. 1048.37

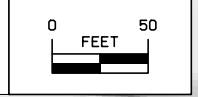
HONEY CREEK TWP.  
 T-90N R-5W  
 SEC. 32

COUNTY DOES NOT WANT TO MAINTAIN THIS ROAD SIDE PARK  
 STATE IS GOING TO ABANDON SOME OF THIS EASEMENT  
 NEED TO KNOW WHAT TO RETAIN FOR THIS PROJECT





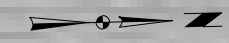
Right of Way Design Information	
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ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



Sta. 278+28.18  
 2'x2'x54.7' RCB  
 W/ 30"x6' Conc.  
 Pipe Inlet Ext.  
 D.A.=10.0 A-R  
 (Remove)

Sta. 1278+25.00  
 Install 30"x104' RCP  
 F.L. = Lt. 1059.25  
 Rt. 1066.00

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 30



NE 1/4 SE 1/4  
SEC. 30

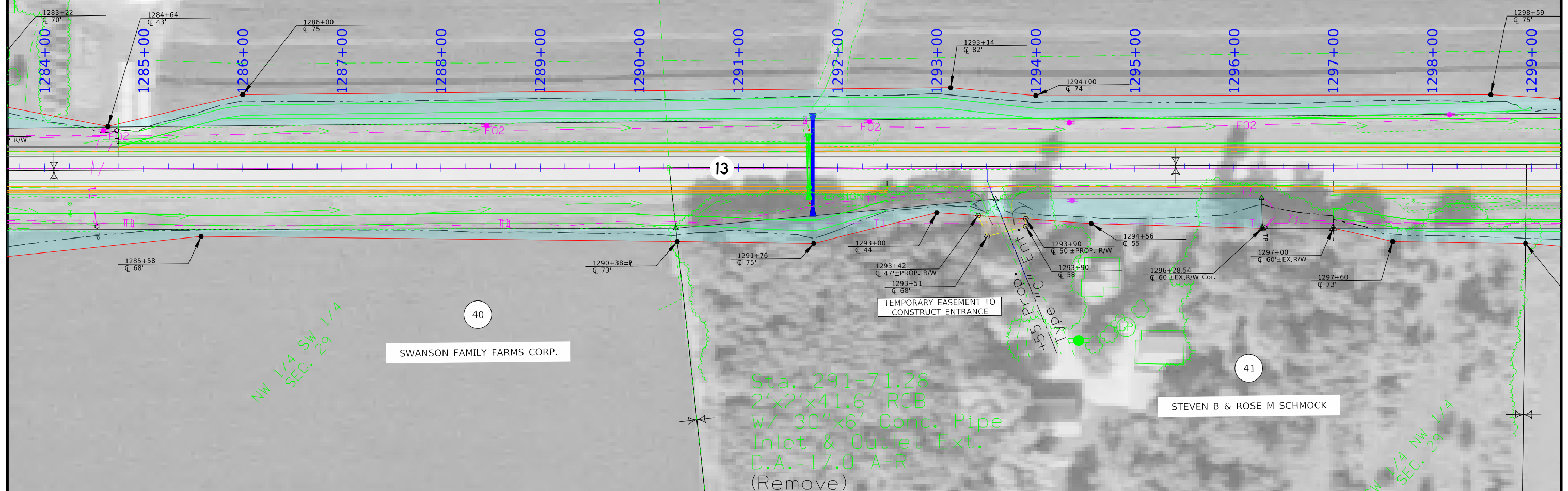
SE 1/4 NE 1/4  
SEC. 30

39

DANIEL & MARY TEKIPPE

39

DANIEL & MARY TEKIPPE



13

40

SWANSON FAMILY FARMS CORP.

41

STEVEN B & ROSE M SCHMOCK

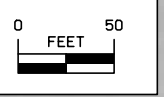
Sta. 291+71.28  
2'x2'x41.6' RCB  
W/ 30"x6' Conc. Pipe  
Inlet & Outlet Ext.  
D.A.=17.0 A-R  
(Remove)

Sta. 1291+75.00  
Install 30"x88' RCP  
F.L. = Lt. 1049.00  
Rt. 1052.00

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 29

SW 1/4 NW 1/4  
SEC. 29

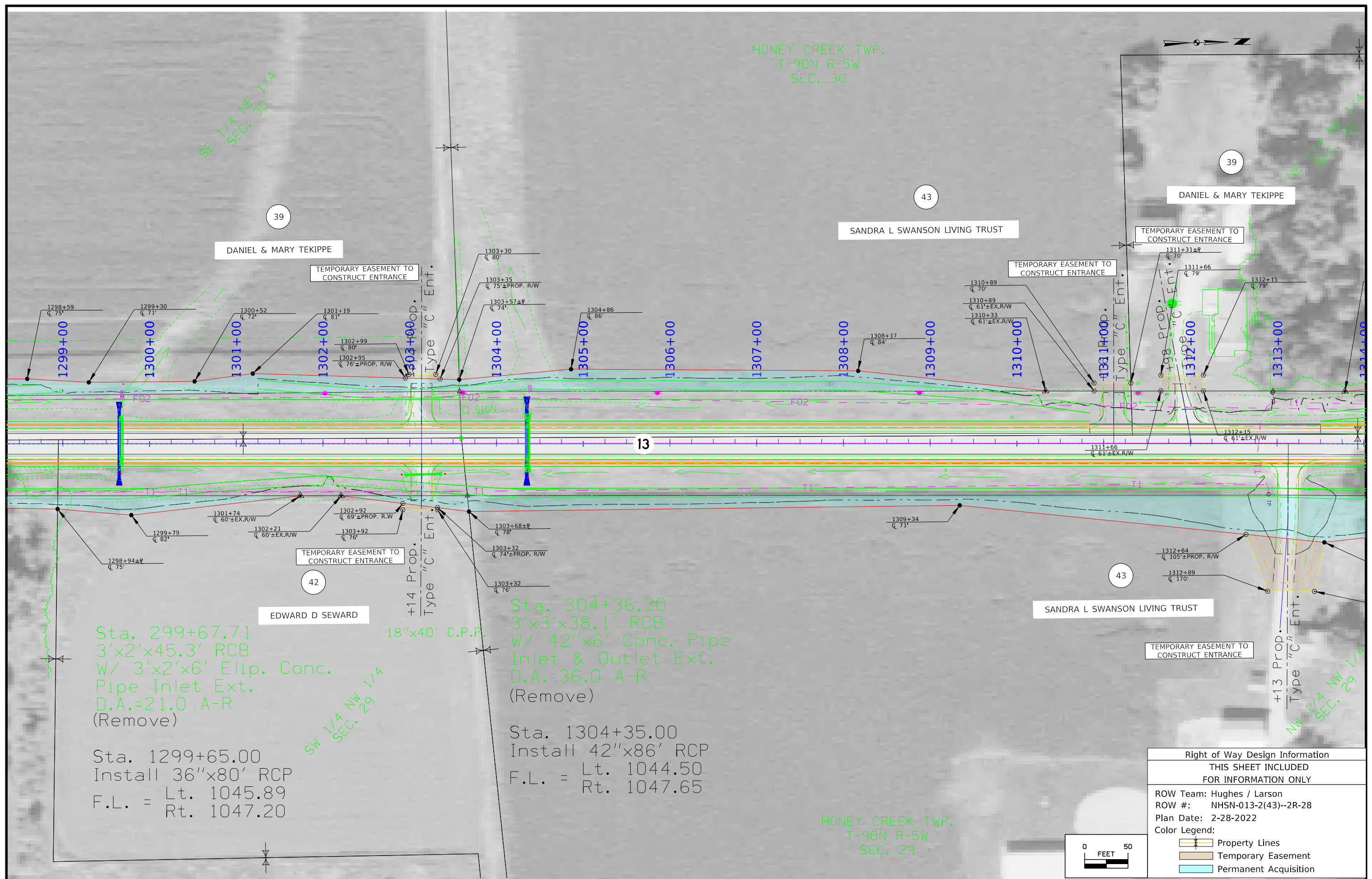
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ROW #: NHSN-013-2(43)--2R-28	
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	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 30

SE 1/4 NE 1/4  
SEC. 30

NE 1/4 NE 1/4  
SEC. 30



Sta. 299+67.71  
3'x2'x45.3' RCB  
W/ 3'x2'x6' Elip. Conc.  
Pipe Inlet Ext.  
D.A.=21.0 A-R  
(Remove)

Sta. 1299+65.00  
Install 36"x80' RCP  
F.L. = Lt. 1045.89  
Rt. 1047.20

Sta. 304+36.30  
3'x3'x38.1' RCB  
W/ 42"x6' Conc. Pipe  
Inlet & Outlet Ext.  
D.A.=36.0 A-R  
(Remove)

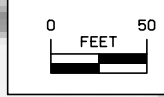
Sta. 1304+35.00  
Install 42"x86' RCP  
F.L. = Lt. 1044.50  
Rt. 1047.65

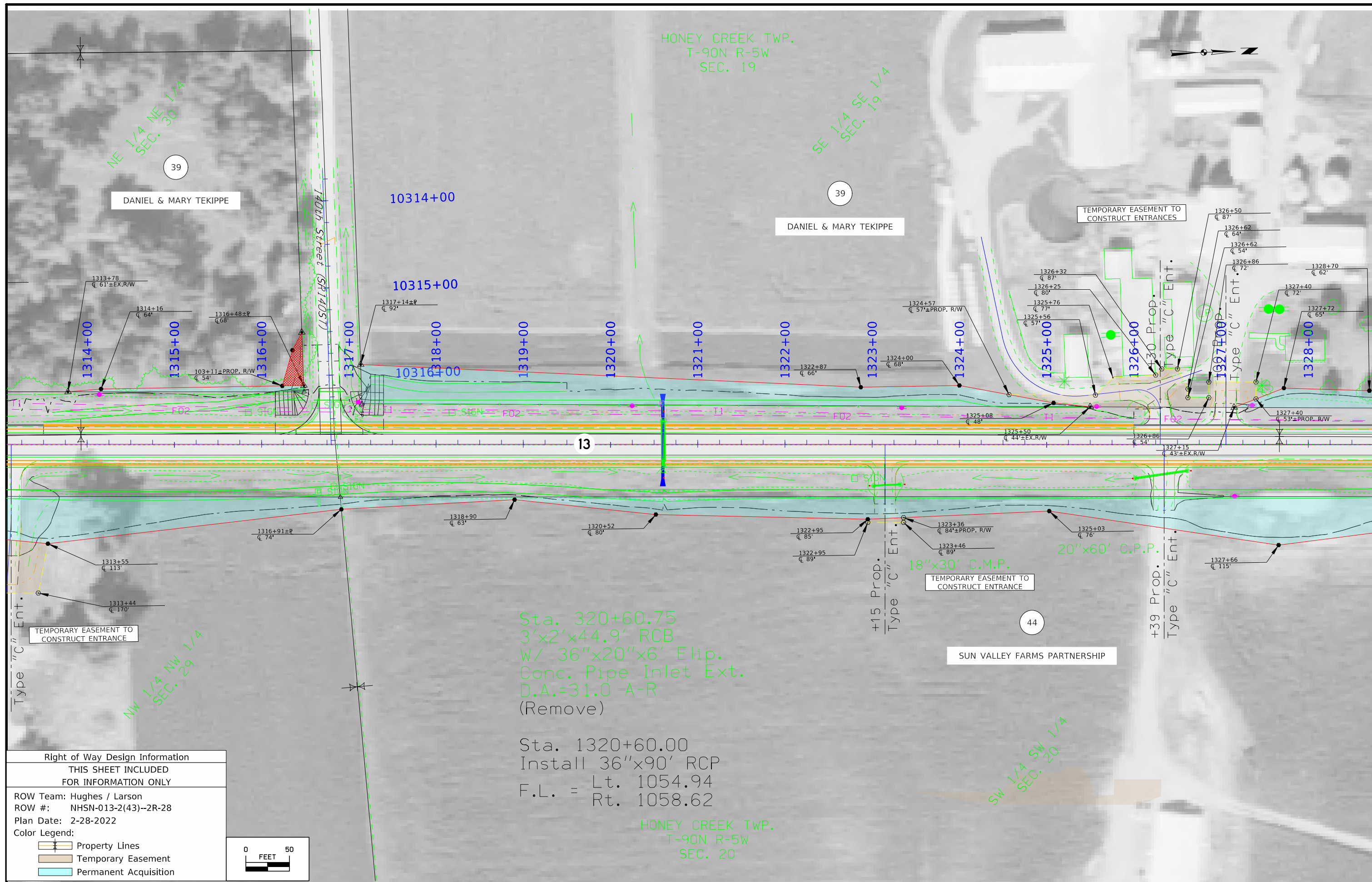
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 29

Right of Way Design Information  
THIS SHEET INCLUDED  
FOR INFORMATION ONLY

ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022

Color Legend:  
 Property Lines  
 Temporary Easement  
 Permanent Acquisition





NE 1/4 NE 1/4 SEC. 30

SE 1/4 SE 1/4 SEC. 19

NW 1/4 NW 1/4 SEC. 29

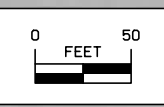
SW 1/4 SW 1/4 SEC. 20

Sta. 320+60.75  
 3'x2'x44.9' RCB  
 W/ 36"x20"x6' Elip.  
 Conc. Pipe Inlet Ext.  
 D.A.=31.0 A-R  
 (Remove)

Sta. 1320+60.00  
 Install 36"x90' RCP  
 F.L. = Lt. 1054.94  
 Rt. 1058.62

HONEY CREEK TWP.  
 T-90N R-5W  
 SEC. 20

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 19

Sta. 342+21.06  
2'x2'x41.3' RCB  
W/ 30"x6' Conc. Pipe  
Inlet & Outlet Ext.  
D.A.=12.0 A-R  
(Remove)

Sta. 1342+20.00  
Install 30'x94' RCP  
F.L. = Lt. 1084.31  
Rt. 1088.21

DANIEL & MARY TEKIPPE

DANIEL & MARY TEKIPPE

TEMPORARY EASEMENT TO  
CONSTRUCT ENTRANCE

39

39

46

44

SUN VALLEY FARMS PARTNERSHIP

Sta. 331+28.77  
3'x2'x56.7' RCB  
D.A.=27.0 A-R  
(Remove)

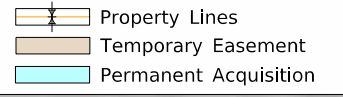
Sta. 1331+25.00  
Install 36"x112' RCP  
F.L. = Lt. 1063.86  
Rt. 1065.50

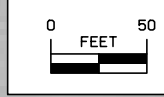
DELORES F STELKEN  
CONTRACT: BRAD W & SHERRI L CLAUSON

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 20

Right of Way Design Information  
THIS SHEET INCLUDED  
FOR INFORMATION ONLY

ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022

Color Legend:  






HONEY CREEK TWP.  
T-90N R-5W  
SEC. 19

SE 1/4 NE 1/4  
SEC. 19

NE 1/4 NE 1/4  
SEC. 19

ROSE ANN KELCHEN REVOCABLE TRUST

ROSE ANN KELCHEN REVOCABLE TRUST

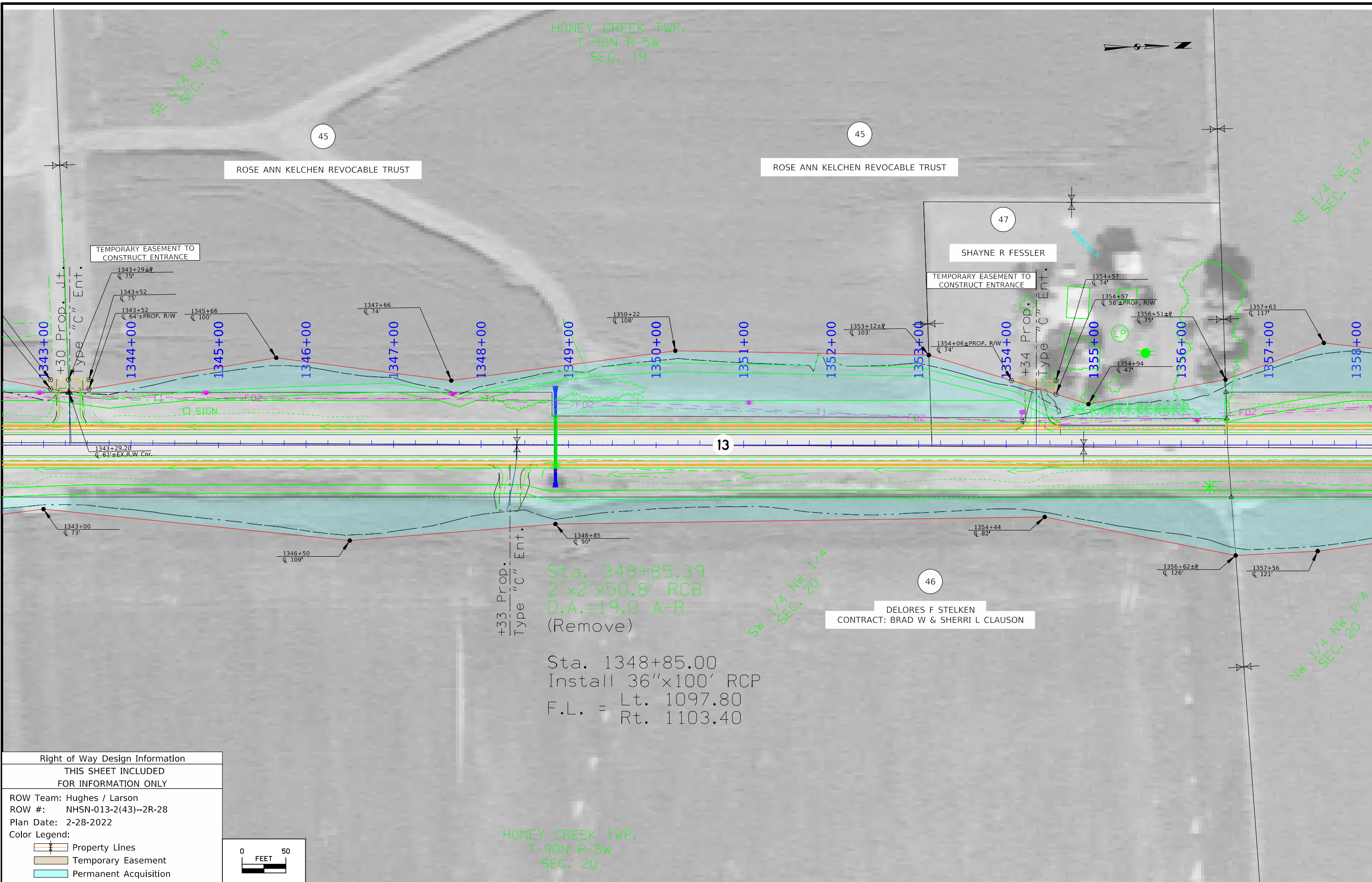
SHAYNE R FESSLER

DELORES F STELKEN  
CONTRACT: BRAD W & SHERRI L CLAUSON

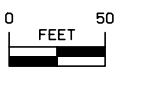
Sta. 348+85.39  
2'x2'x50.8' RCB  
D.A.=19.0 A-R  
(Remove)

Sta. 1348+85.00  
Install 36"x100' RCP  
F.L. = Lt. 1097.80  
Rt. 1103.40

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 20



Right of Way Design Information	
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ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 19

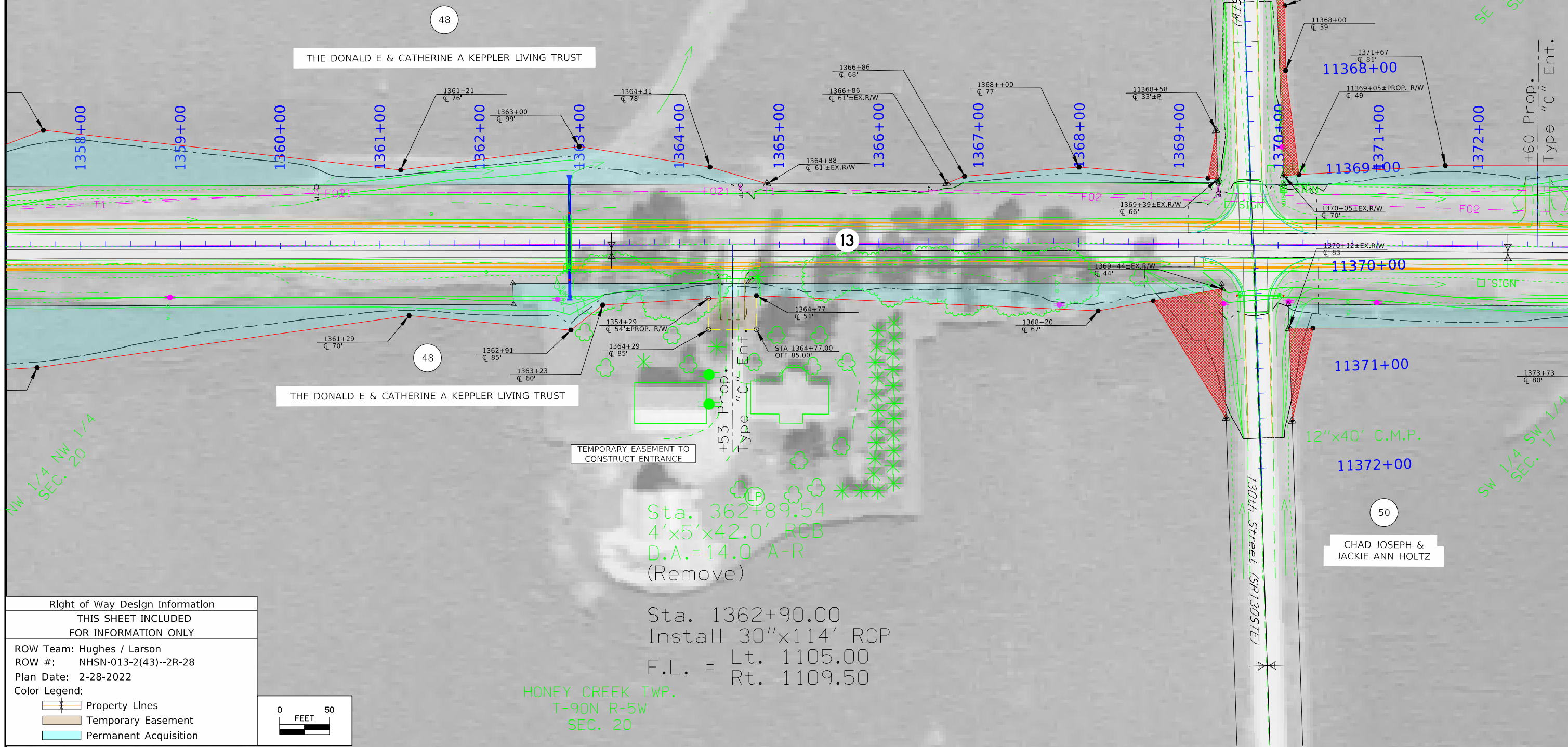
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 18

NE 1/4 NE 1/4  
SEC. 19

SE 1/4 SE 1/4  
SEC. 18

NW 1/4 NW 1/4  
SEC. 20

SW 1/4 SW 1/4  
SEC. 17



THE DONALD E & CATHERINE A KEPPLER LIVING TRUST

THE DONALD E & CATHERINE A KEPPLER LIVING TRUST

D & C FARM, LLC

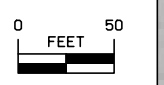
CHAD JOSEPH & JACKIE ANN HOLTZ

Sta. 362+89.54  
4'x5'x42.0' RCB  
D.A.=14.0 A-R  
(Remove)

Sta. 1362+90.00  
Install 30"x114' RCP  
F.L. = Lt. 1105.00  
Rt. 1109.50

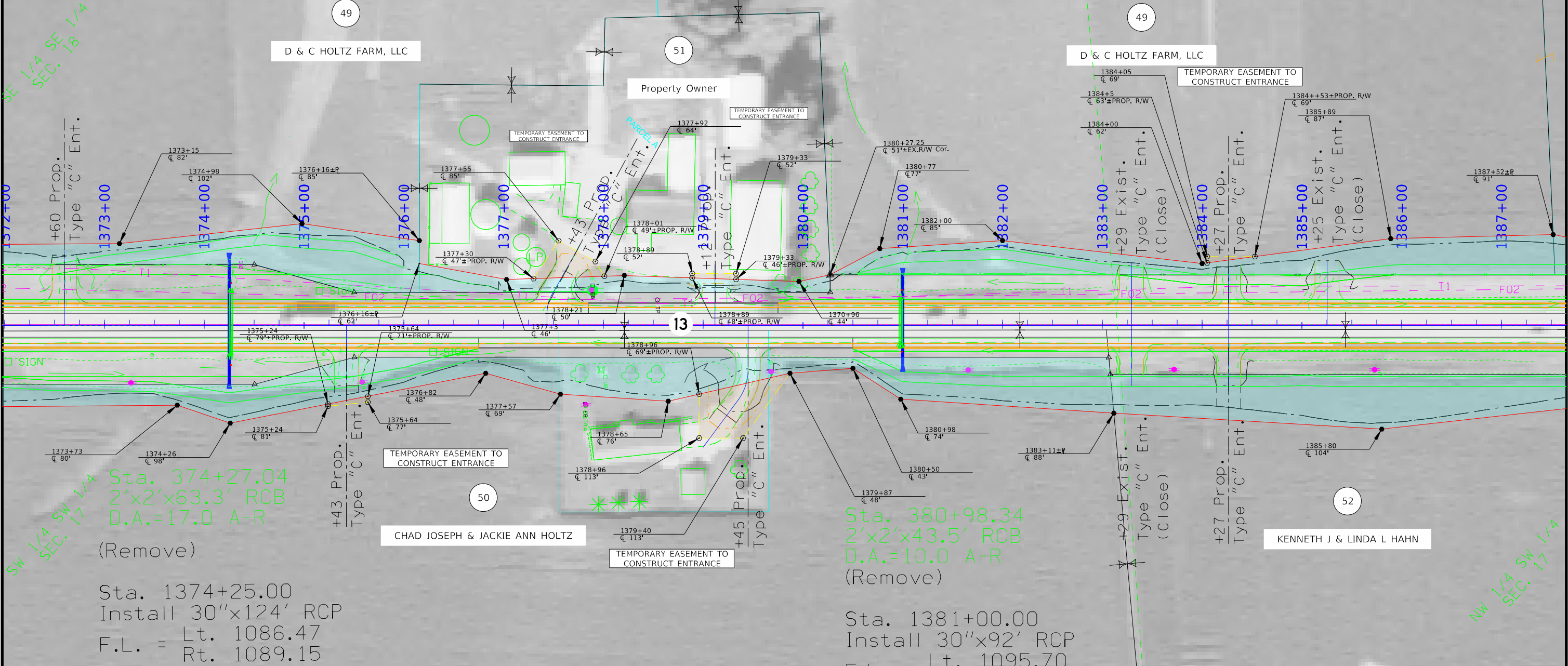
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 20

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

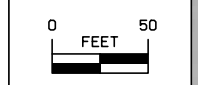


HONEY CREEK TWP.  
T-90N R-5W  
SEC. 18

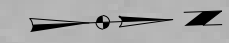
NE 1/4 SE 1/4  
SEC. 18



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	2-28-2022
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

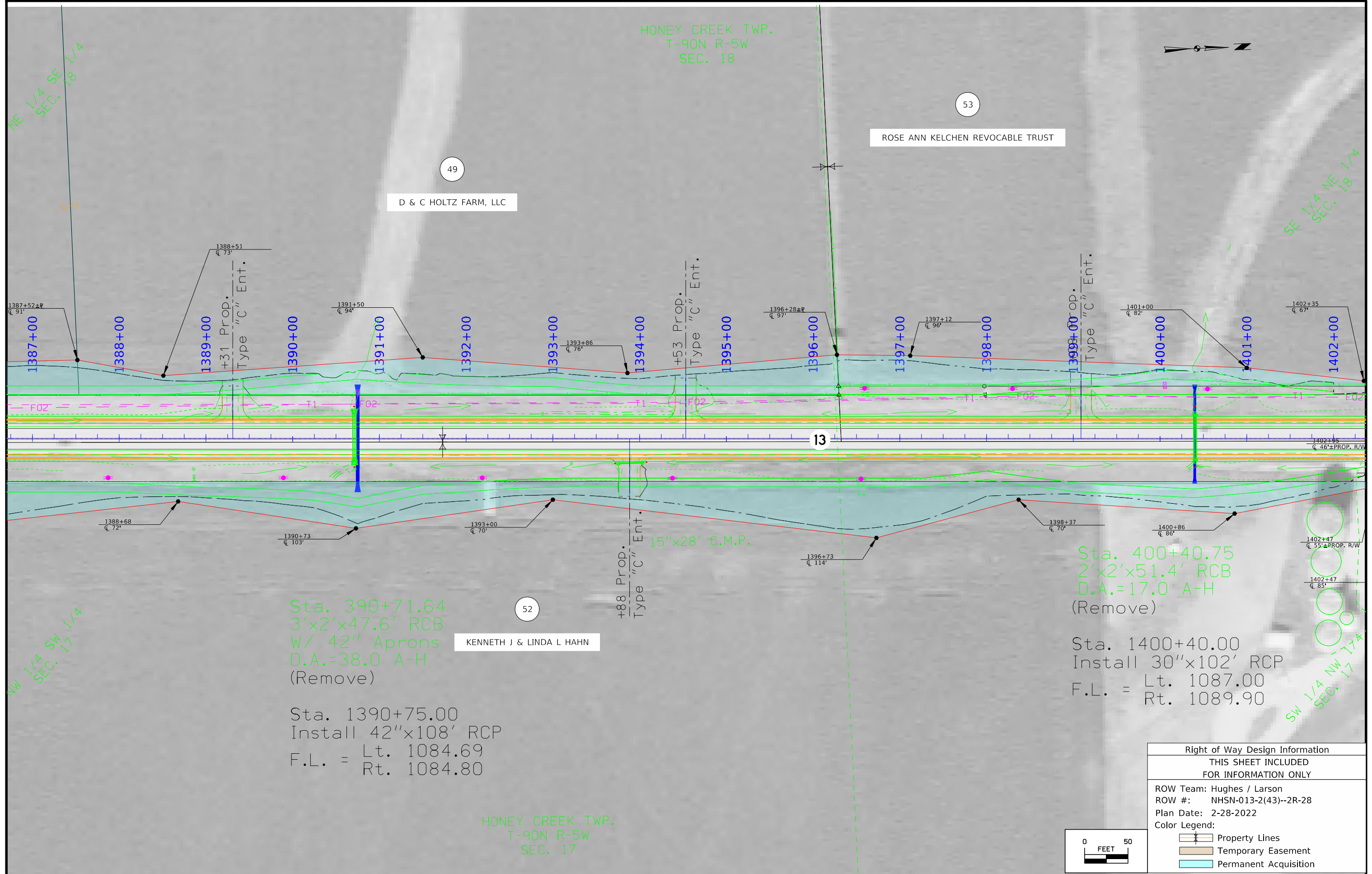


HONEY CREEK TWP.  
T-90N R-5W  
SEC. 18



D & C HOLTZ FARM, LLC

ROSE ANN KELCHEN REVOCABLE TRUST



Sta. 390+71.64  
3'x2'x47.6' RCB  
w/ 42" Aprons  
D.A.=38.0 A-H  
(Remove)

KENNETH J & LINDA L HAHN

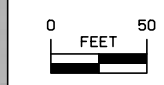
Sta. 1390+75.00  
Install 42"x108' RCP  
F.L. = Lt. 1084.69  
Rt. 1084.80

Sta. 400+40.75  
2'x2'x51.4' RCB  
D.A.=17.0 A-H  
(Remove)

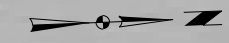
Sta. 1400+40.00  
Install 30"x102' RCP  
F.L. = Lt. 1087.00  
Rt. 1089.90

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 17

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	2-28-2022
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 18



SE 1/4 NE 1/4  
SEC. 18

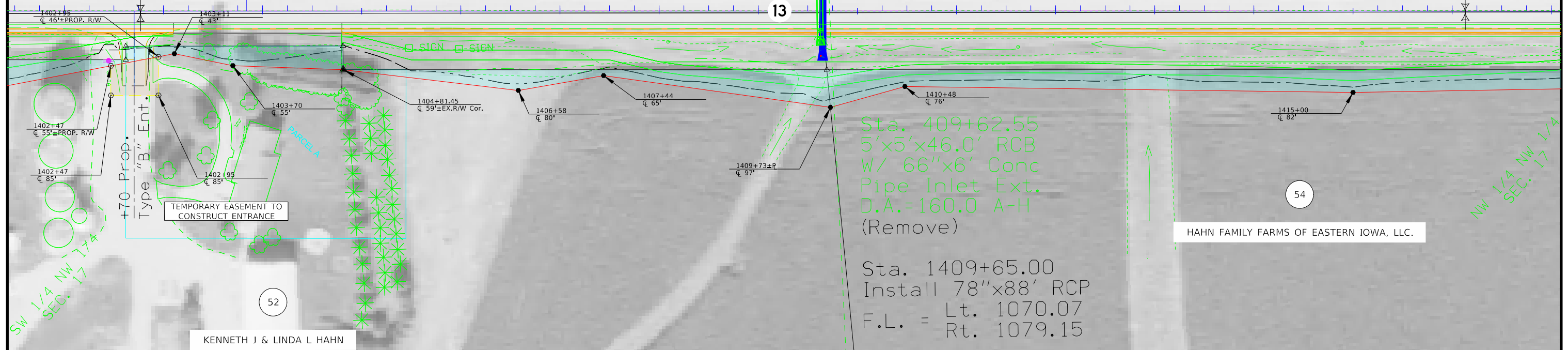
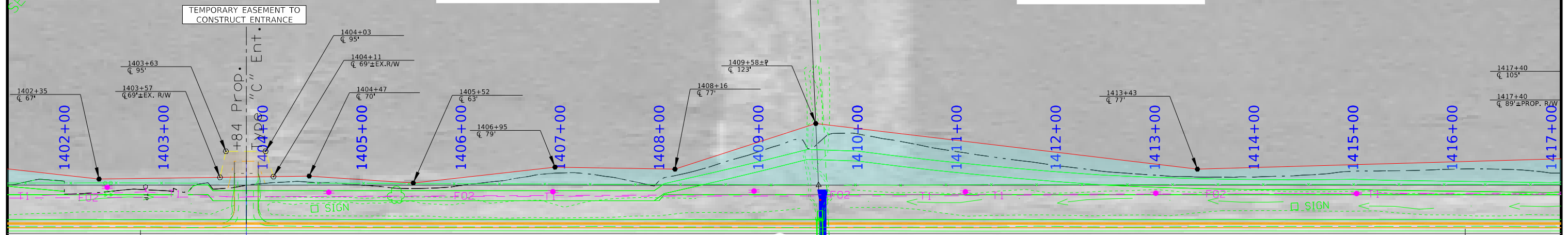
NE 1/4 NE 1/4  
SEC. 18

53

55

ROSE ANN KELCHEN REVOCABLE TRUST

LAVERN A & JEFFREY F KELCHEN



Sta. 409+62.55  
5'x5'x46.0' RCB  
w/ 66"x6' Conc  
Pipe Inlet Ext.  
D.A.=160.0 A-H  
(Remove)

Sta. 1409+65.00  
Install 78"x88' RCP  
F.L. = Lt. 1070.07  
Rt. 1079.15

HAHN FAMILY FARMS OF EASTERN IOWA, LLC.

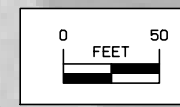
SW 1/4 NW 1/4  
SEC. 17

NW 1/4 NW 1/4  
SEC. 17

52

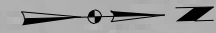
KENNETH J & LINDA L HAHN

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 17



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-22	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 18



NE 1/4 NE 1/4  
SEC. 18

SE 1/4 SE 1/4  
SEC. 17

55

LAVERN A & JEFFREY F KELCHEN

56

BARR LIVING TRUST

57

THOMAS E AMTHAUER

18"x41' C.M.P.

TEMPORARY EASEMENT TO  
CONSTRUCT ENTRANCE



13

NW 1/4 NW 1/4  
SEC. 17

SW 1/4 SW 1/4  
SEC. 8

TEMPORARY EASEMENT TO  
CONSTRUCT ENTRANCE

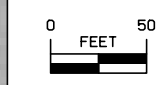
18"x60' G.M.P.

54

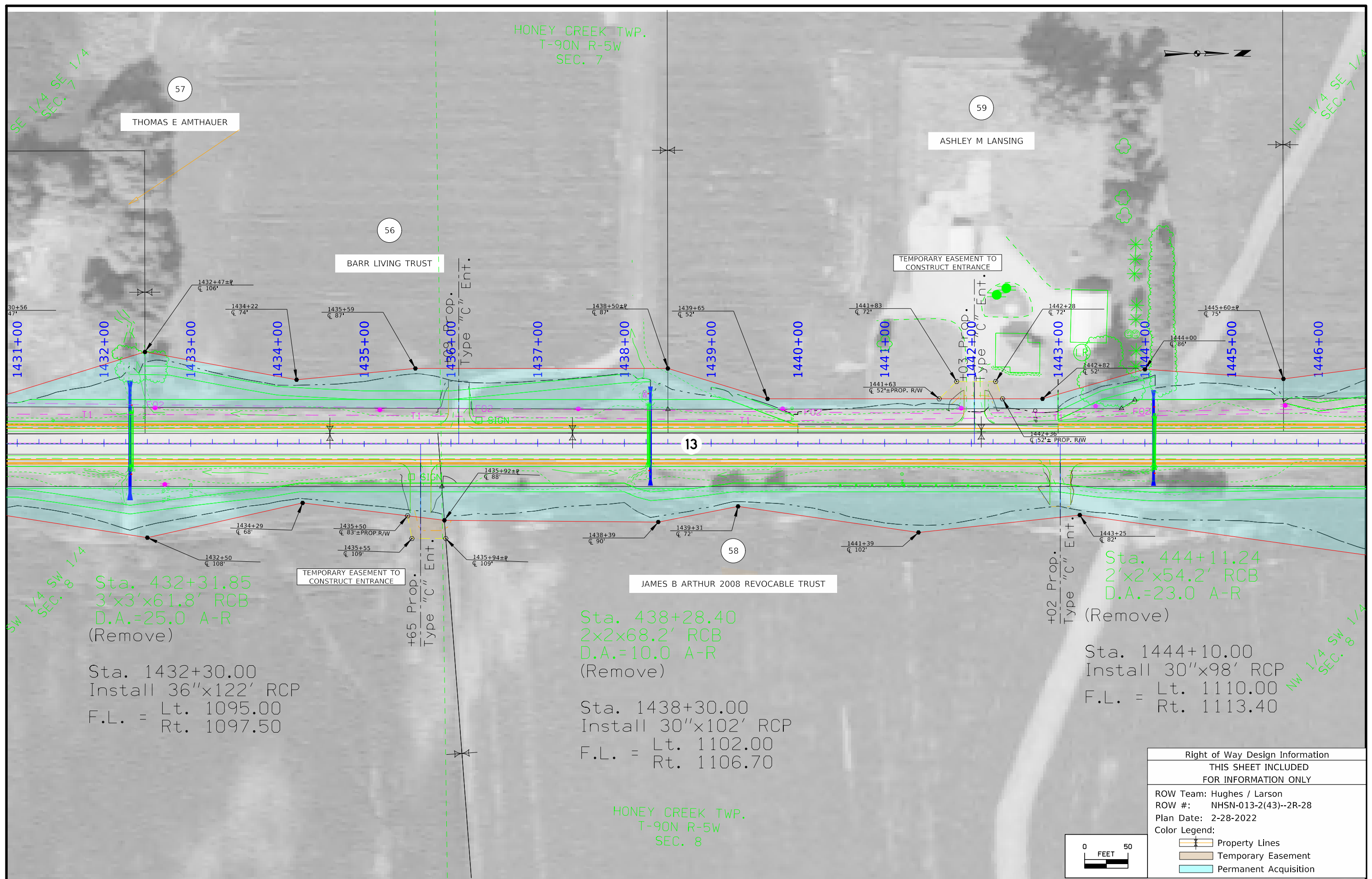
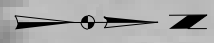
HAHN FAMILY FARMS OF EASTERN IOWA, LLC.

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 17

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 20-28-22	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 7



57  
THOMAS E AMTHAUER

59  
ASHLEY M LANSING

56  
BARR LIVING TRUST

58  
JAMES B ARTHUR 2008 REVOCABLE TRUST

Sta. 432+31.85  
3'x3'x61.8' RCB  
D.A.=25.0 A-R  
(Remove)

Sta. 1432+30.00  
Install 36"x122' RCP  
F.L. = Lt. 1095.00  
Rt. 1097.50

Sta. 438+28.40  
2x2x68.2' RCB  
D.A.=10.0 A-R  
(Remove)

Sta. 1438+30.00  
Install 30"x102' RCP  
F.L. = Lt. 1102.00  
Rt. 1106.70

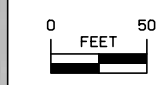
Sta. 444+11.24  
2'x2'x54.2' RCB  
D.A.=23.0 A-R  
(Remove)

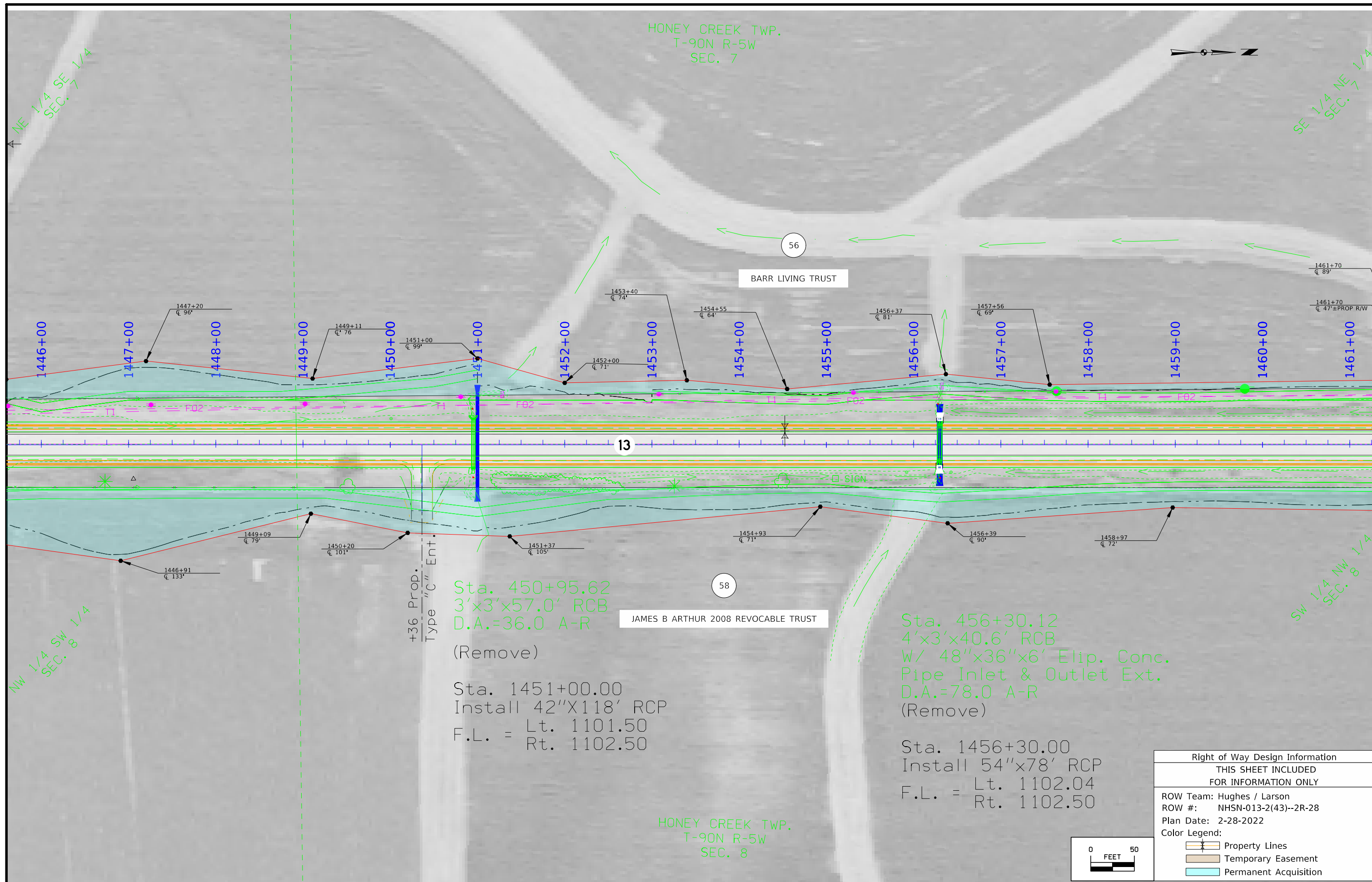
Sta. 1444+10.00  
Install 30"x98' RCP  
F.L. = Lt. 1110.00  
Rt. 1113.40

Right of Way Design Information  
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ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022  
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

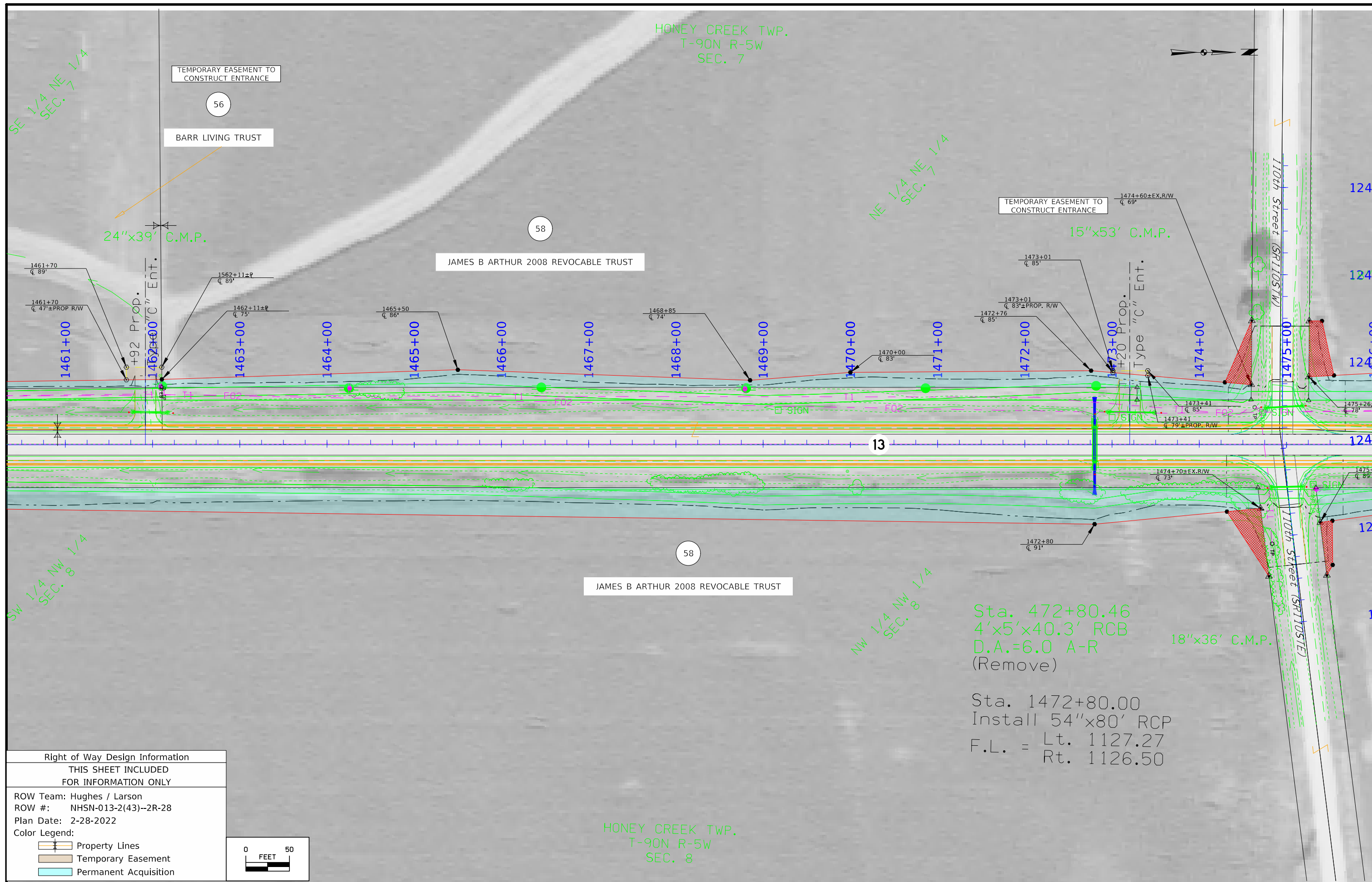




FILE NO.	ENGLISH	DESIGN TEAM STRUME / PRINDLE / McNAMARA	DELAWARE COUNTY	PROJECT NUMBER NHSX-013-2(42)--3H-28	SHEET NUMBER H.28
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Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





HONEY CREEK TWP.  
T-90N R-5W  
SEC. 7

JAMES B ARTHUR 2008 REVOCABLE TRUST

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 8

TEMPORARY EASEMENT TO  
CONSTRUCT ENTRANCE

56

BARR LIVING TRUST

24"x39' C.M.P.

58

JAMES B ARTHUR 2008 REVOCABLE TRUST

TEMPORARY EASEMENT TO  
CONSTRUCT ENTRANCE

15"x53' C.M.P.

1474+60±EX.R/W  
C 69'

1473+01  
C 85'

1473+01  
C 83'±PROP. R/W

1472+76  
C 85'

1470+00  
C 83'

1468+85  
C 74'

1465+50  
C 86'

1462+11±P  
C 89'

1461+70  
C 89'

1461+70  
C 47'±PROP R/W

1462+00  
C 47'±PROP R/W

1462+11±P  
C 75'

1473+00  
C 85'

Type "C" Ent.

1474+00

1473+41  
C 85'

1473+41  
C 79'±PROP. R/W

1474+70±EX.R/W  
C 73'

1472+80  
C 91'

Sta. 472+80.46  
4'x5'x40.3' RCB  
D.A.=6.0 A-R  
(Remove)

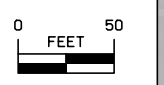
18"x36' C.M.P.

Sta. 1472+80.00  
Install 54"x80' RCP  
F.L. = Lt. 1127.27  
Rt. 1126.50

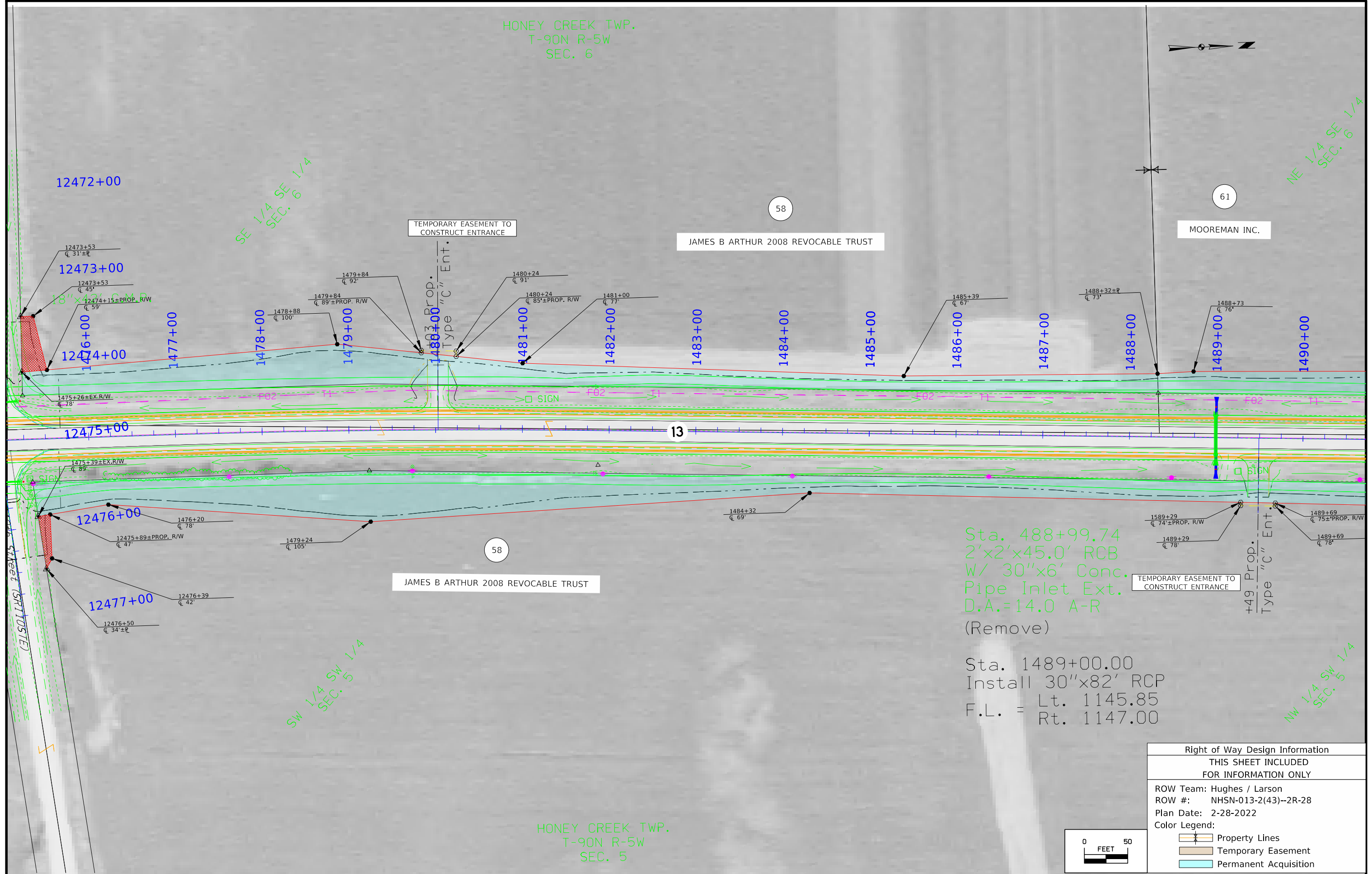
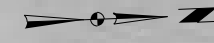
Right of Way Design Information  
THIS SHEET INCLUDED  
FOR INFORMATION ONLY

ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022

Color Legend:  
Property Lines  
Temporary Easement  
Permanent Acquisition



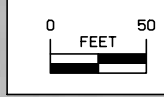
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 6



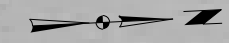
Sta. 488+99.74  
2'x2'x45.0' RCB  
W/ 30"x6' Conc.  
Pipe Inlet Ext.  
D.A.=14.0 A-R  
(Remove)

Sta. 1489+00.00  
Install 30"x82' RCP  
F.L. = Lt. 1145.85  
Rt. 1147.00

Right of Way Design Information	
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ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 6



Sta. 502+06.07  
4'x3'x45.0' RCB  
W/ 48"x36"x6' Elip.  
Conc. Pipe Inlet Ext.  
D.A.=128.0 A-R  
(Remove)

Sta. 1502+00.00  
Install 54"x80' RCP  
F.L. = Lt. 1143.00  
Rt. 1144.15

NE 1/4 SE 1/4  
SEC. 6

SE 1/4 NE 1/4  
SEC. 6

61

MOOREMAN INC.

TEMPORARY EASEMENT TO  
CONSTRUCT ENTRANCE

1490+00 1491+00 1492+00 1493+00 1494+00 1495+00 1496+00 1497+00 1498+00 1499+00 1500+00 1501+00 1502+00 1503+00 1504+00 1505+00

1489+69 1489+69 1495+00 1497+86 1501+80±P

58

JAMES B ARTHUR 2008 REVOCABLE TRUST

60

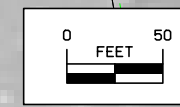
JOSEPH C KINTZLE REVOCABLE TRUST

NW 1/4 SW 1/4  
SEC. 5

SW 1/4 NW 1/4  
SEC. 5

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 5

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	Hughes / Larson
ROW #:	NHSN-013-2(43)--2R-28
Plan Date:	2-28-2022
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 6



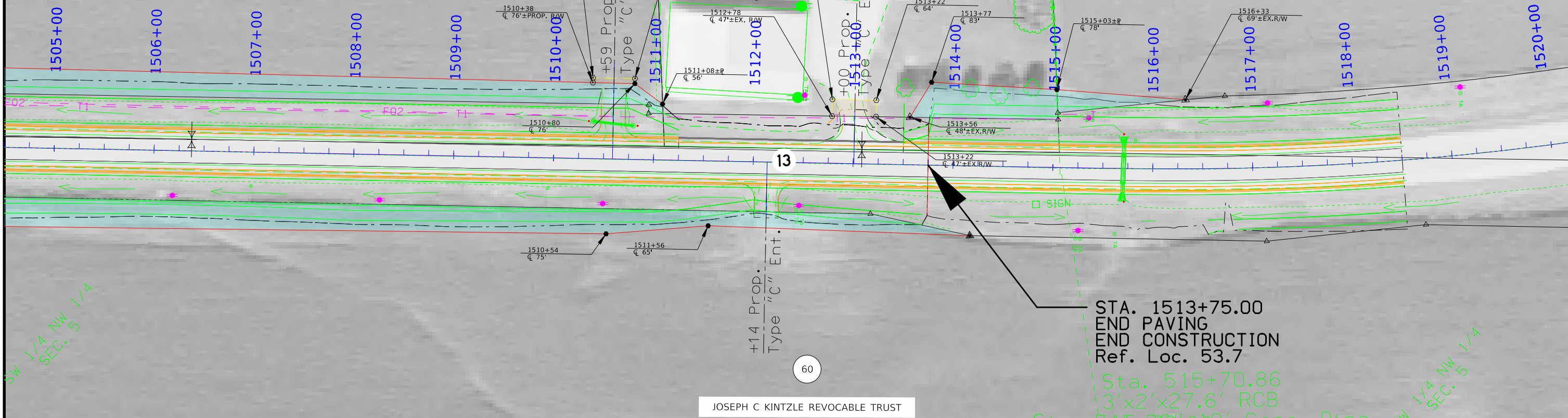
SE 1/4 NE 1/4  
SEC. 6

NE 1/4 NE 1/4  
SEC. 6

61  
MOOREMAN INC.

MICHAEL J & EDEN C GAUL

63  
MATTHEW D & MICHELLE L VENTEICHER



60  
JOSEPH C KINTZLE REVOCABLE TRUST

STA. 1513+75.00  
END PAVING  
END CONSTRUCTION  
Ref. Loc. 53.7

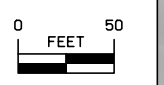
Sta. 1515+70.86  
3'x2'x27.6' RCB  
Outlet Ext.  
W/ 360x10' Conc. Pipe  
Inlet & Outlet Ext.  
D.A.=13.0 A-R

Right of Way Design Information  
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FOR INFORMATION ONLY

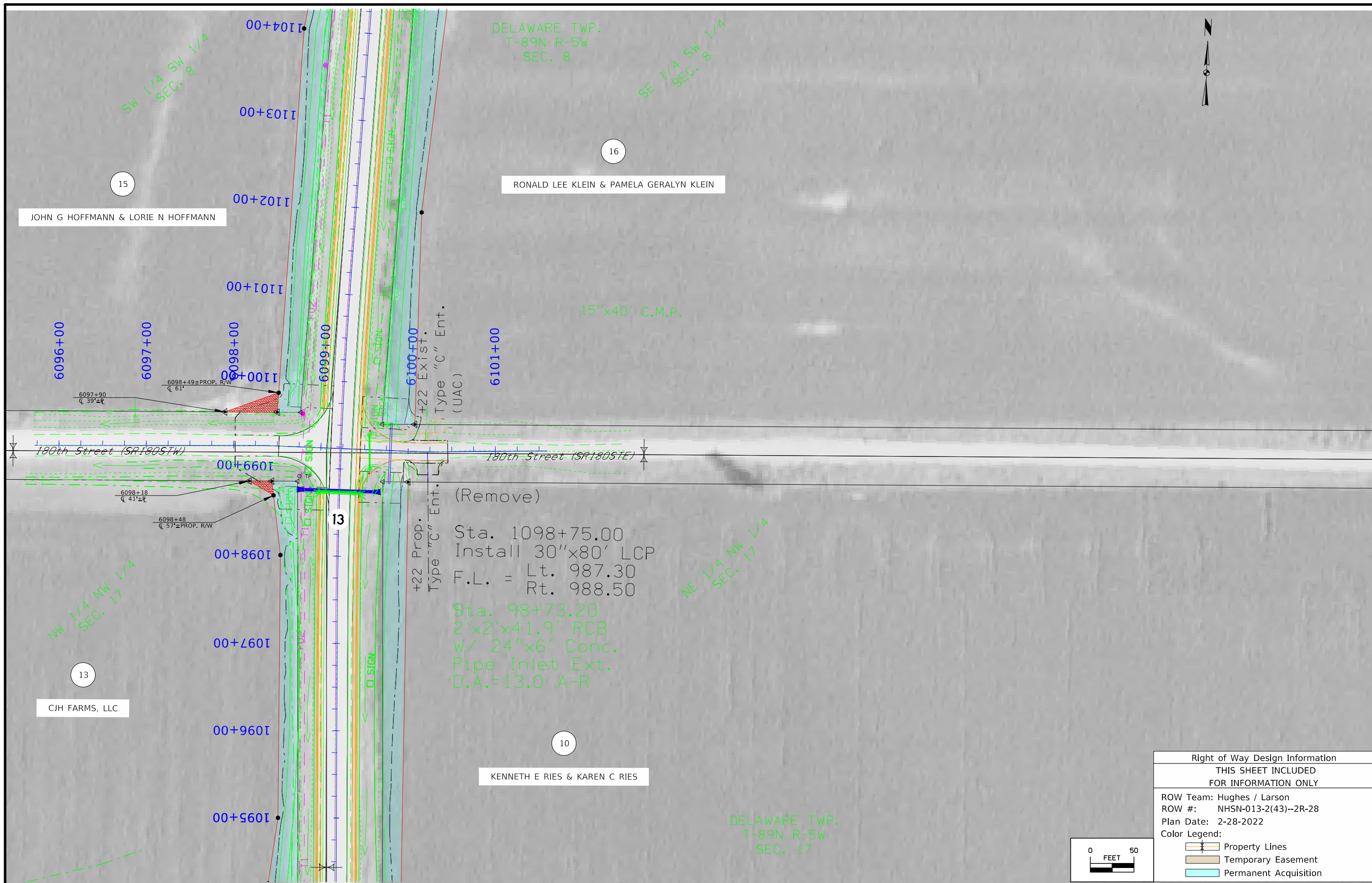
ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022

Color Legend:  

 Property Lines  
 Temporary Easement  
 Permanent Acquisition



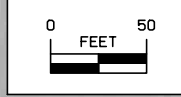
HONEY CREEK TWP.  
T-90N R-5W  
SEC. 5



Right of Way Design Information  
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 FOR INFORMATION ONLY

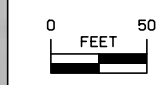
ROW Team: Hughes / Larson  
 ROW #: NHSN-013-2(43)--2R-28  
 Plan Date: 2-28-2022

Color Legend:  
 [Yellow line] Property Lines  
 [Brown shaded area] Temporary Easement  
 [Cyan shaded area] Permanent Acquisition





Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



HONEY CREEK TWP.  
T-90N R-5W  
SEC. 31

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 32

(Remove)  
Sta. 1240+25.00  
Install 30"x90' RCP  
F.L. = Lt. 1025.93  
Rt. 1021.88

Sta. 240+23.52  
2'x2'x44.5' RCB  
W/ 30"x6' Conc.  
Pipe Outlet Ext.  
D.A.=6.0 A-R



STAVEN K & DENIESE M JONES


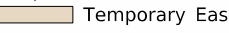
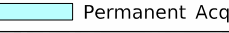
ARLENE T JONES

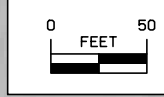
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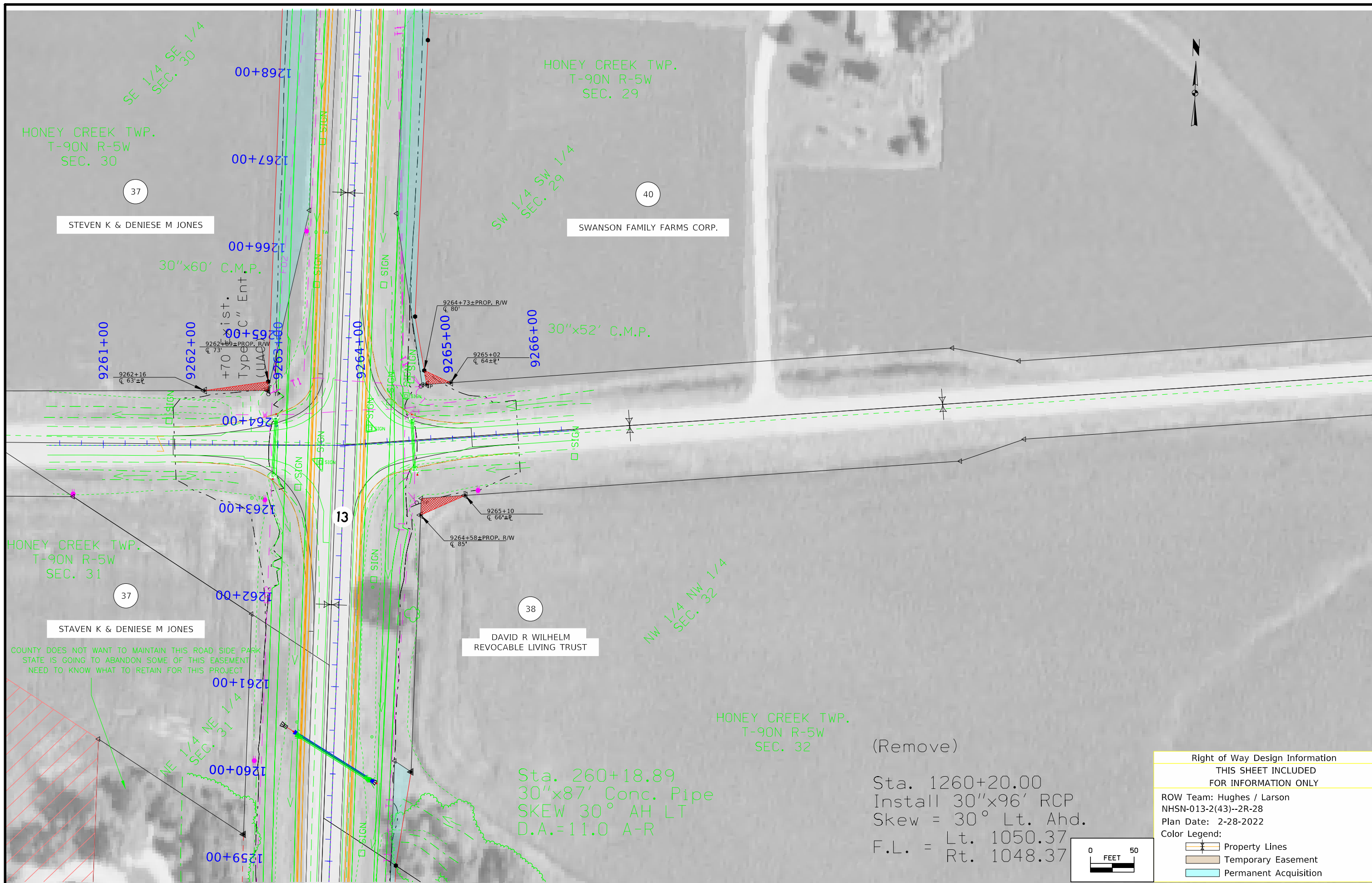


Right of Way Design Information  
THIS SHEET INCLUDED  
FOR INFORMATION ONLY

ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2/28/2021  
Color Legend:

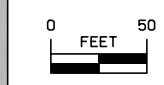
-  Property Lines
-  Temporary Easement
-  Permanent Acquisition





Sta. 260+18.89  
 30"x87' Conc. Pipe  
 SKEW 30° AH LT  
 D.A.=11.0 A-R

(Remove)  
 Sta. 1260+20.00  
 Install 30"x96' RCP  
 Skew = 30° Lt. Ahd.  
 F.L. = Lt. 1050.37  
 Rt. 1048.37

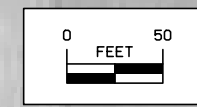


Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHSN-013-2(43)--2R-28	
Plan Date: 2-28-2021	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



Sta. 374+27.04  
 2'x2'x63.3' RCB  
 D.A.=17.0 A-R

(Remove)

Sta. 1374+25.00  
 Install 30"x124' RCP  
 F.L. = Lt. 1086.47  
 Rt. 1089.15



49

D & C HOLTZ FARM, LLC

50

CHAD JOSEPH & JACKIE ANN HOLTZ

HONEY CREEK TWP.  
 T-90N R-5W  
 SEC. 18

HONEY CREEK TWP.  
 T-90N R-5W  
 SEC. 17

SE 1/4 SE 1/4  
 SEC. 18 1/4

SW 1/4 SW 1/4  
 SEC. 17 1/4

130th Street (SR130SW)

130th Street (SR130SE)

12"x40' C.M.P.

48

THE DONALD E &  
 CATHERINE A KEPPLER LIVING TRUST

48

THE DONALD E & CATHERINE A KEPPLER LIVING TRUST

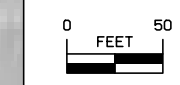
NE 1/4 NE 1/4  
 SEC. 19 1/4

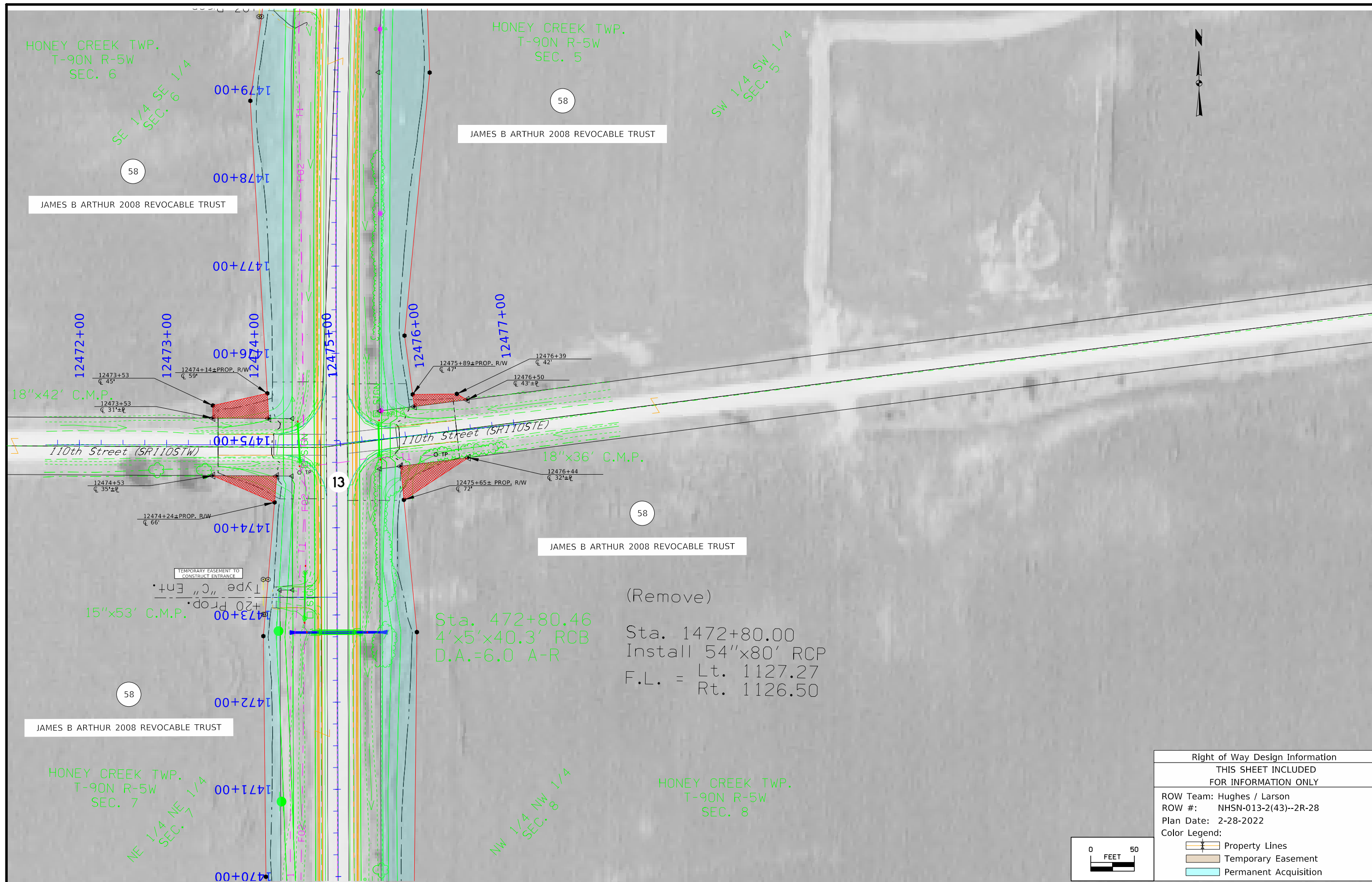
NW 1/4 NW 1/4  
 SEC. 20 1/4

HONEY CREEK TWP.  
 T-90N R-5W  
 SEC. 19

HONEY CREEK TWP.  
 T-90N R-5W  
 SEC. 20

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Hughes / Larson	
ROW #: NHNS-013-2943--2R-28	
Plan Date: 2-28-22	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition





HONEY CREEK TWP.  
T-90N R-5W  
SEC. 6

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 5

SW 1/4 SW 1/4  
SEC. 5

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 7

HONEY CREEK TWP.  
T-90N R-5W  
SEC. 8

NW 1/4 NW 1/4  
SEC. 8

JAMES B ARTHUR 2008 REVOCABLE TRUST

JAMES B ARTHUR 2008 REVOCABLE TRUST

JAMES B ARTHUR 2008 REVOCABLE TRUST

JAMES B ARTHUR 2008 REVOCABLE TRUST

18"x42' C.M.P.

18"x36' C.M.P.

15"x53' C.M.P.

Sta. 472+80.46  
4'x5'x40.3' RCB  
D.A.=6.0 A-R

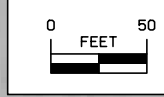
(Remove)  
Sta. 1472+80.00  
Install 54"x80' RCP  
F.L. = Lt. 1127.27  
Rt. 1126.50

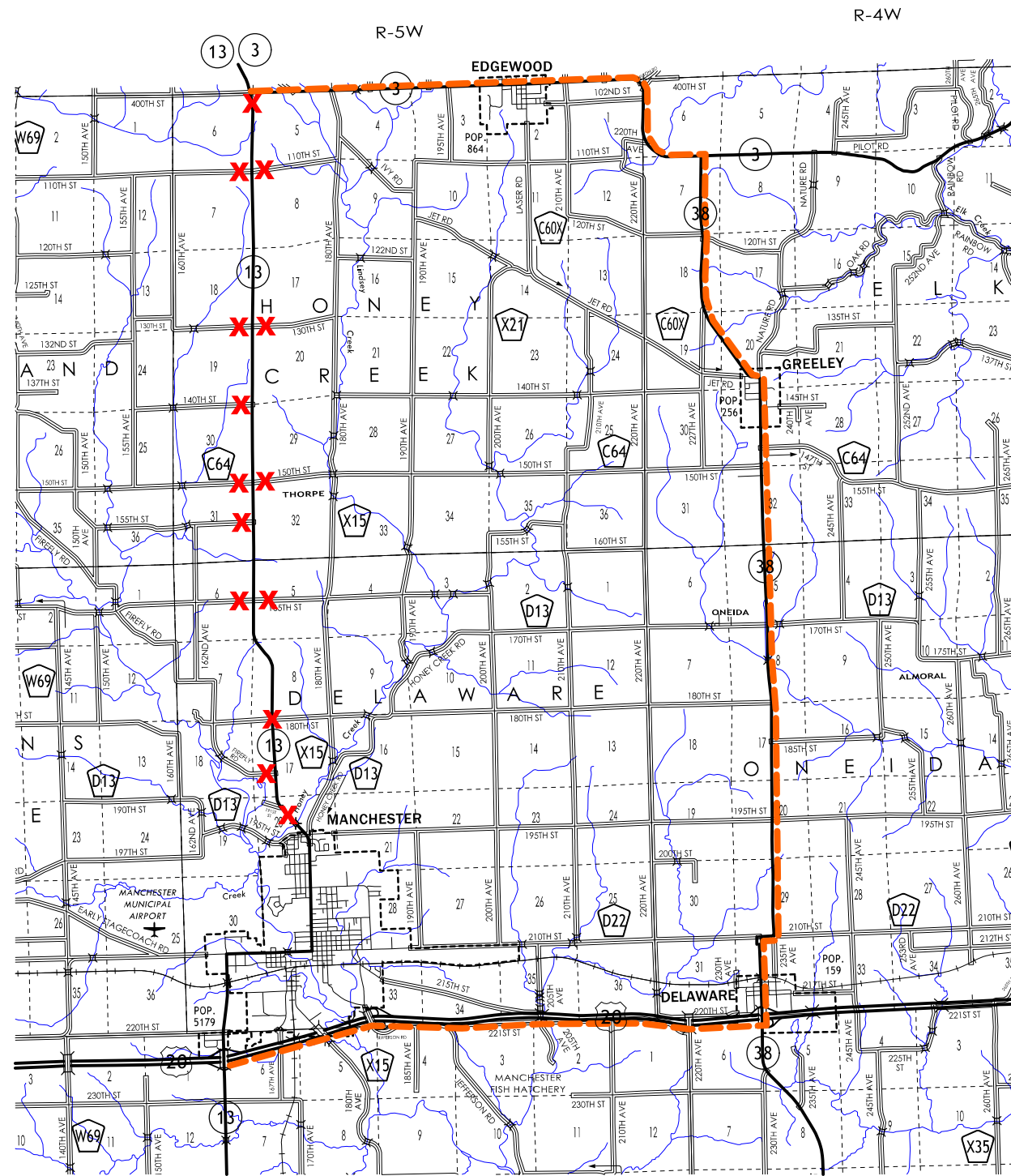
TEMPORARY EASEMENT TO  
CONSTRUCT ENTRANCE

Right of Way Design Information  
THIS SHEET INCLUDED  
FOR INFORMATION ONLY

ROW Team: Hughes / Larson  
ROW #: NHSN-013-2(43)--2R-28  
Plan Date: 2-28-2022

Color Legend:  
 Property Lines  
 Temporary Easement  
 Permanent Acquisition





**LEGEND:**

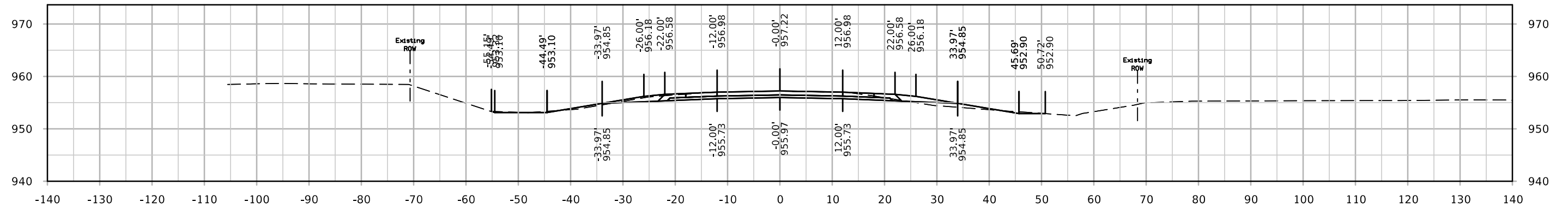
**X** Closure

**- - - - -** Detour Route

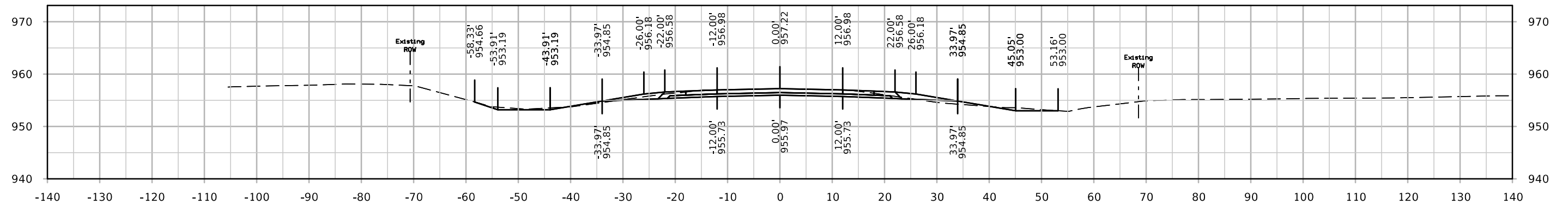
**DETOUR**  
 HONEY CREEK 0.2 mi N of Co Rd to S Jct IA 3  
 IA 13 NB/SB CLOSED

FILE NO.	ENGLISH	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER	J.1
12:52:03 PM	11/23/2021	jstrum				

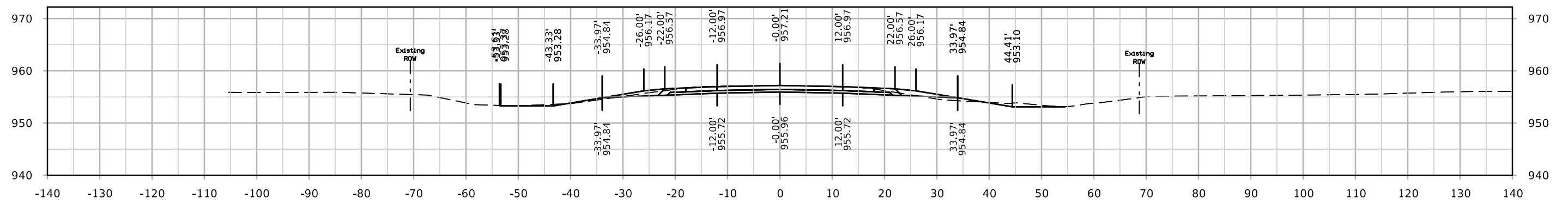
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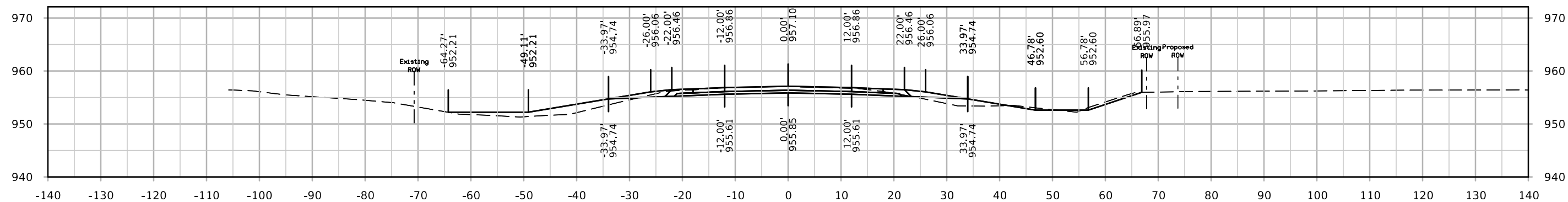
STA. 1052+00.00



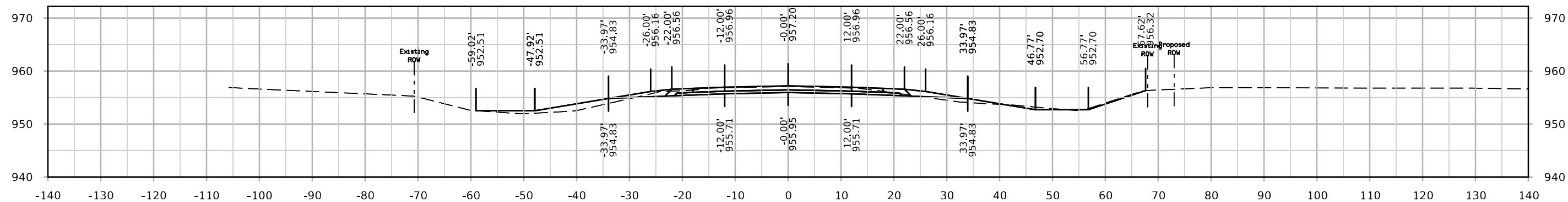
STA. 1051+50.00



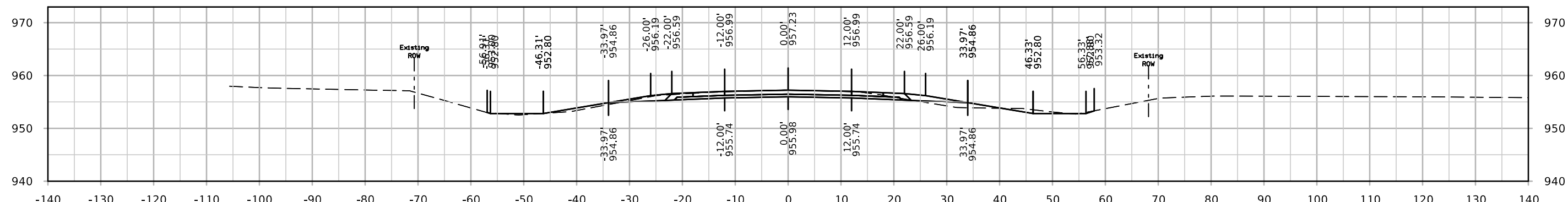
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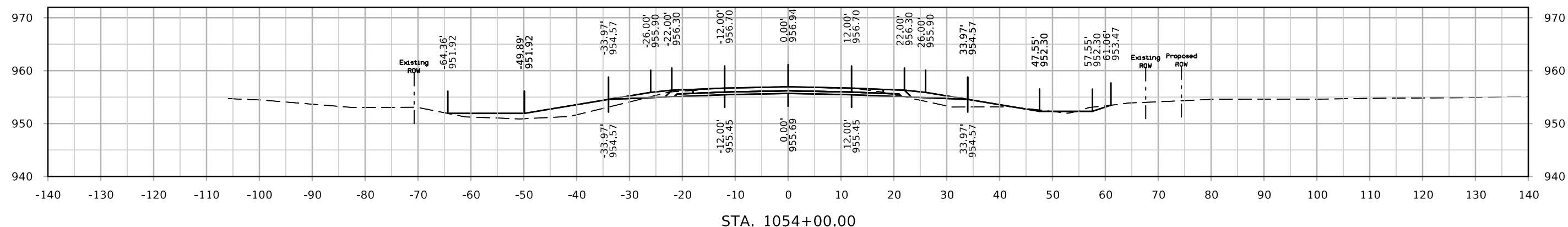
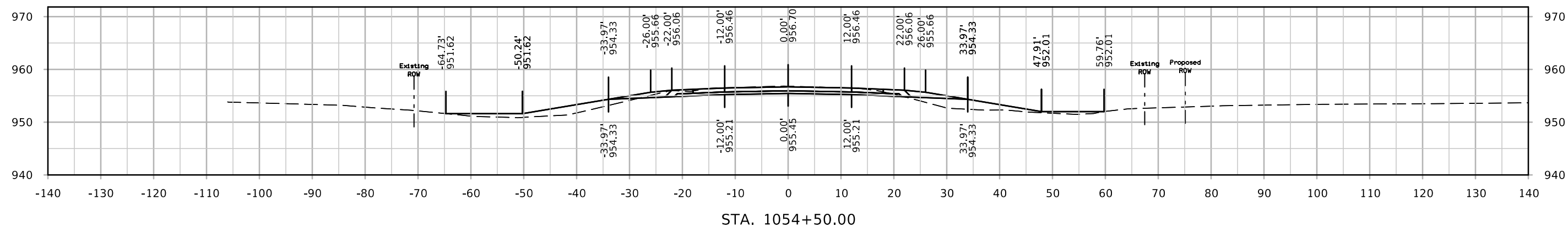
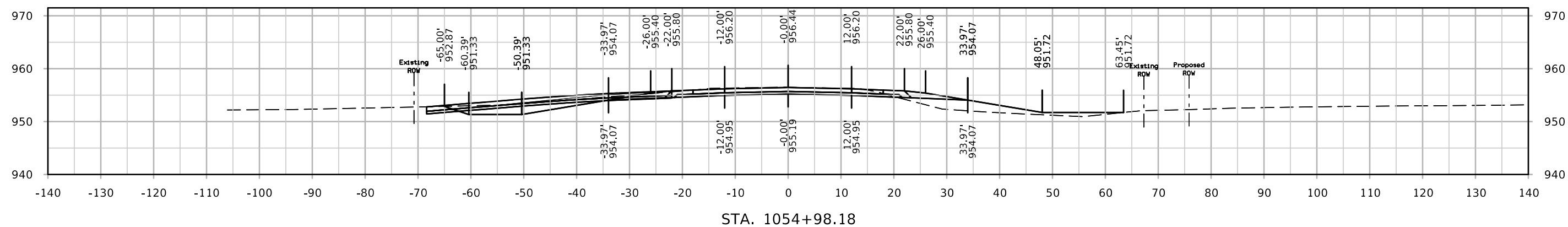
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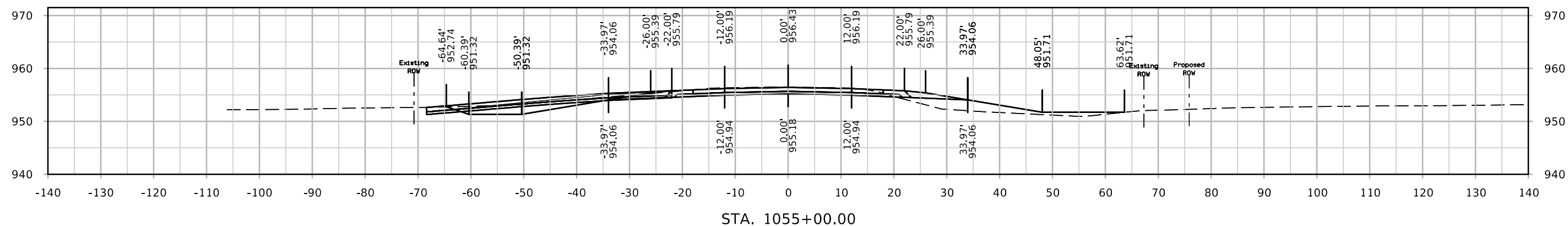
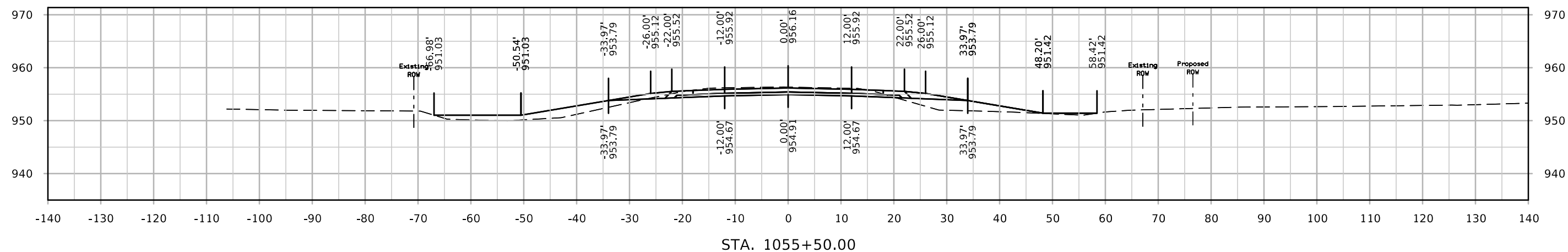
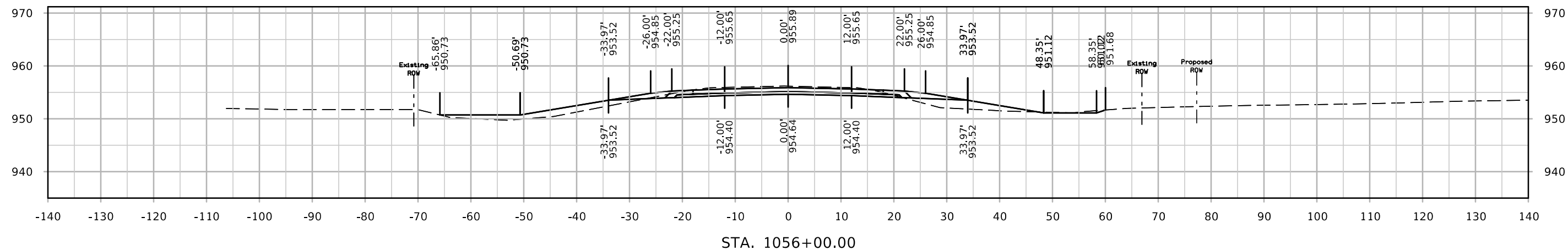


STA. 1053+00.00

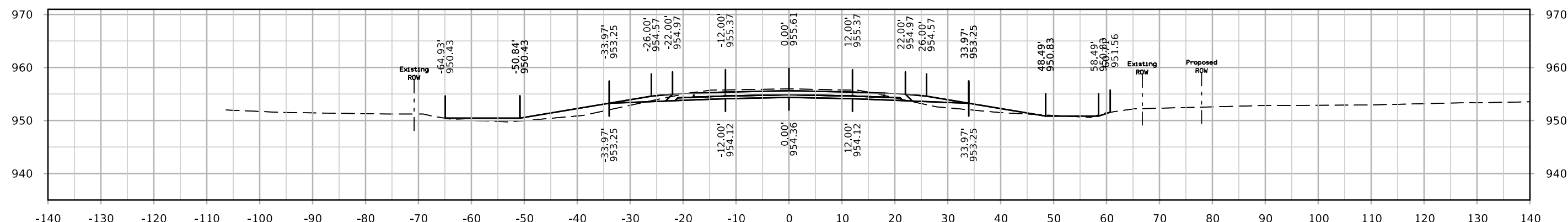
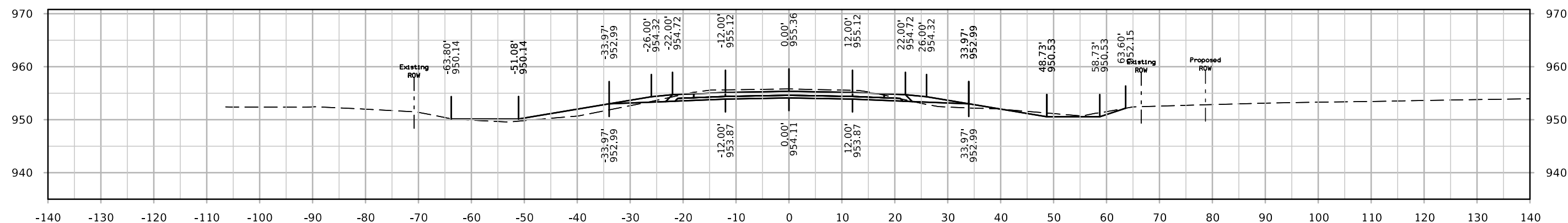
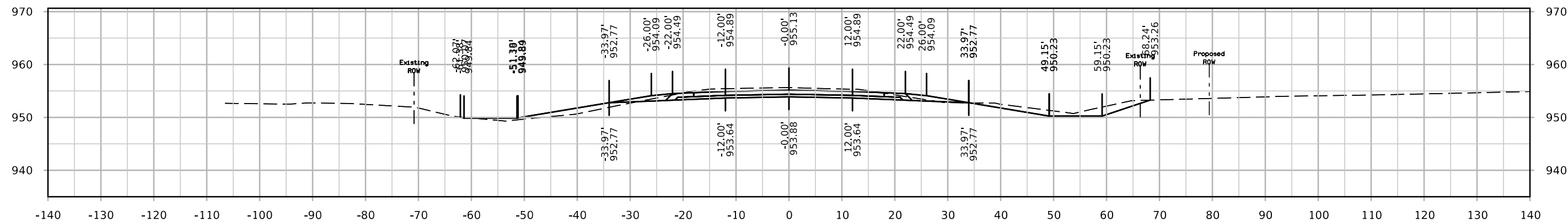


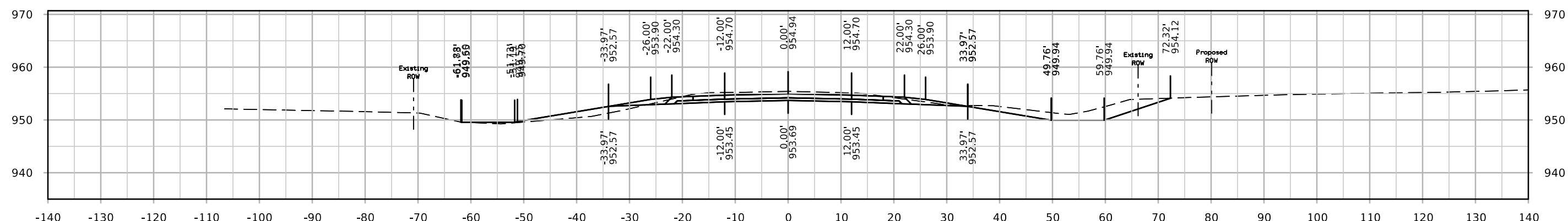
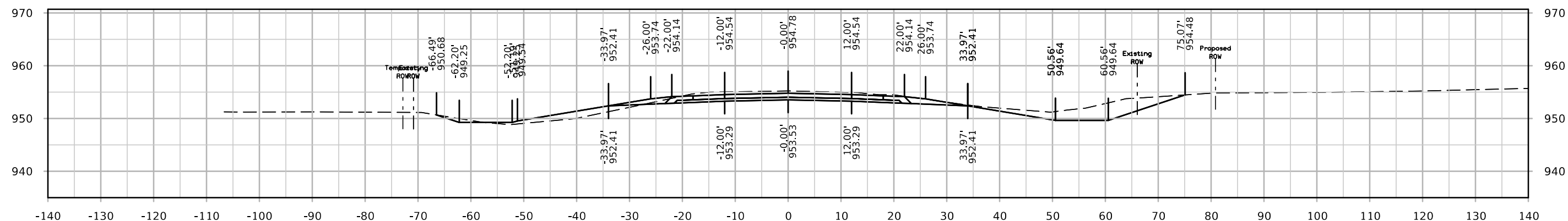
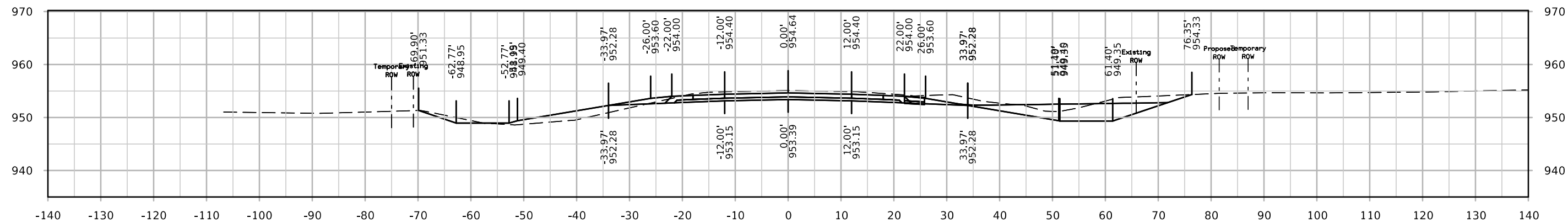
STA. 1052+50.00

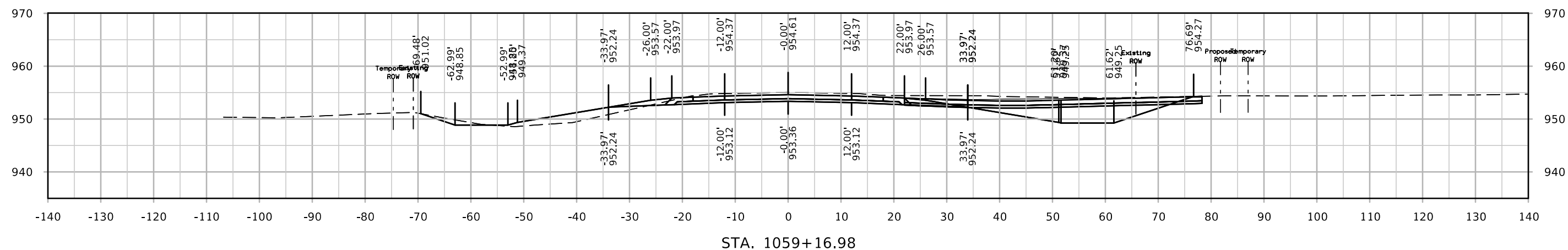
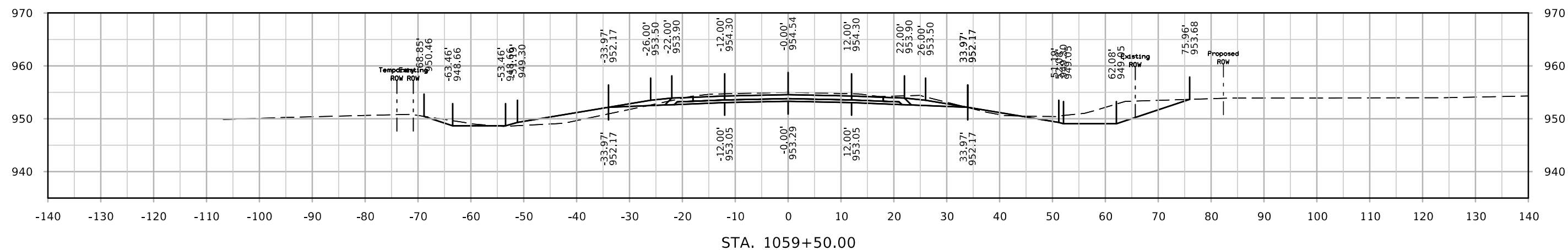
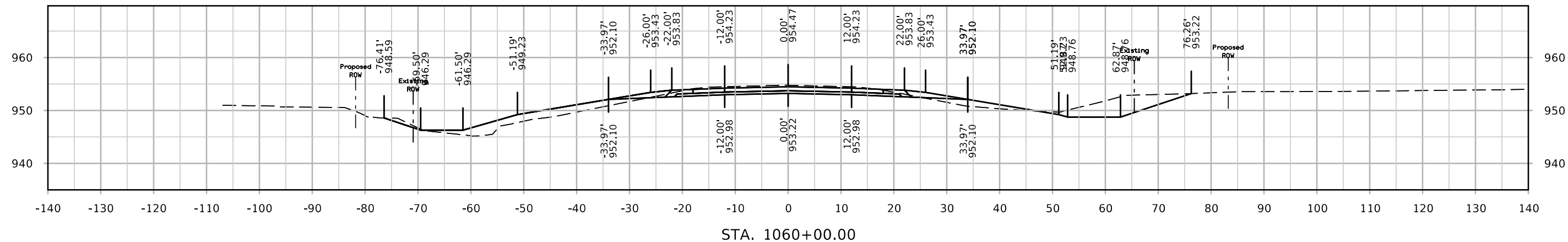


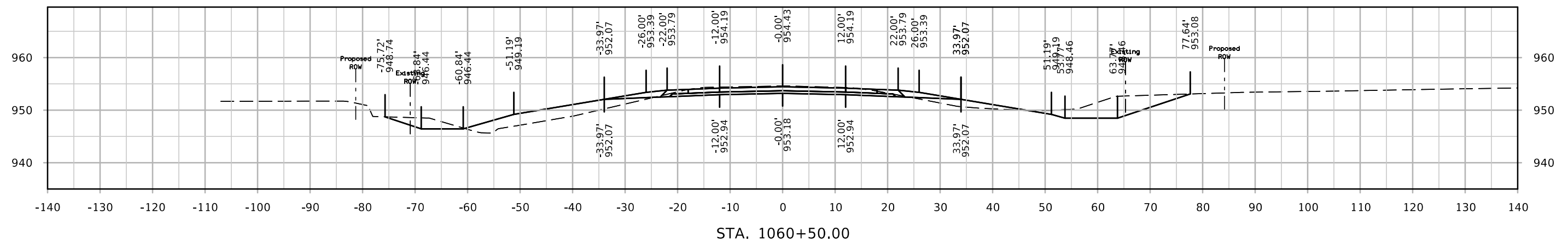
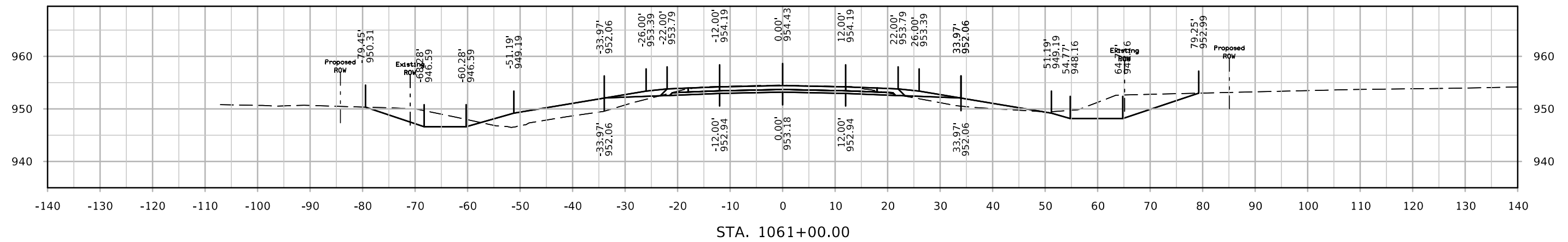
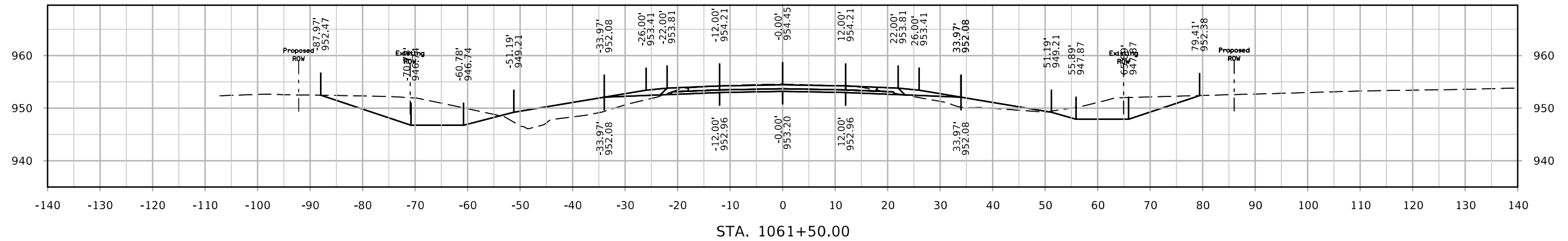


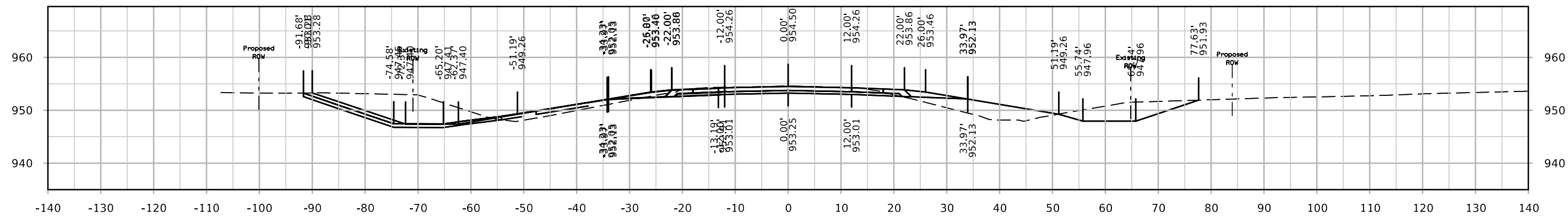




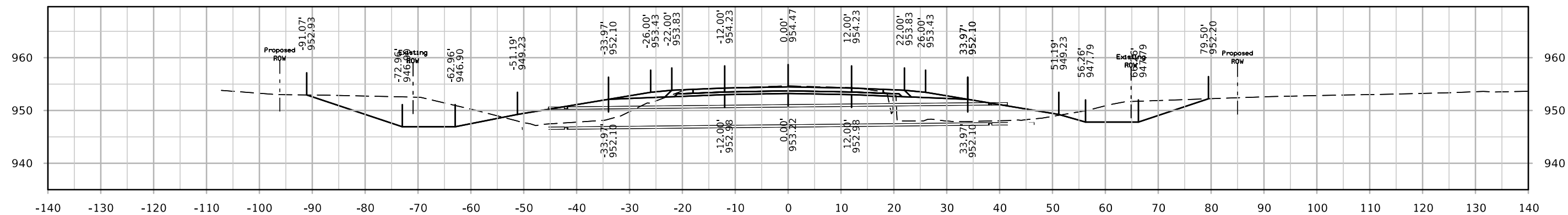




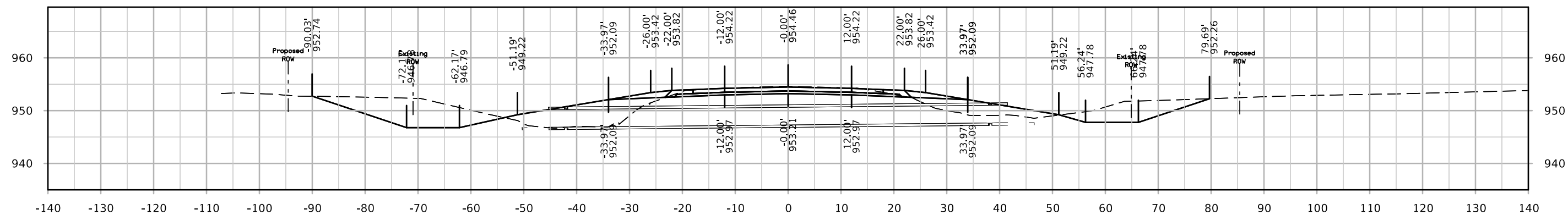




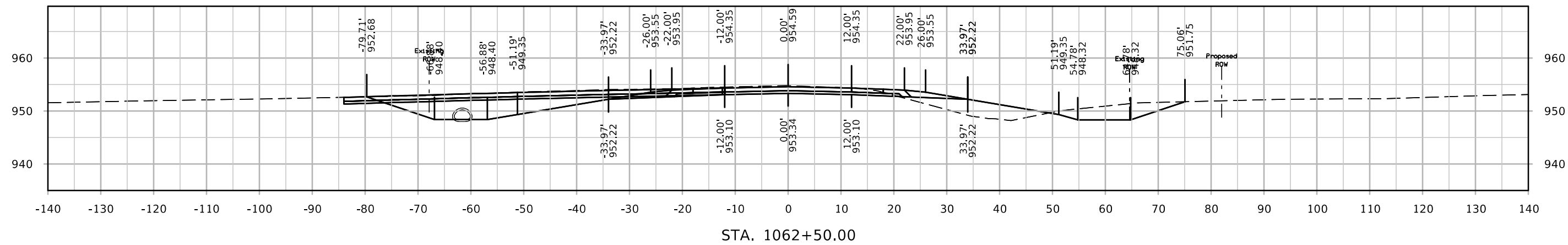
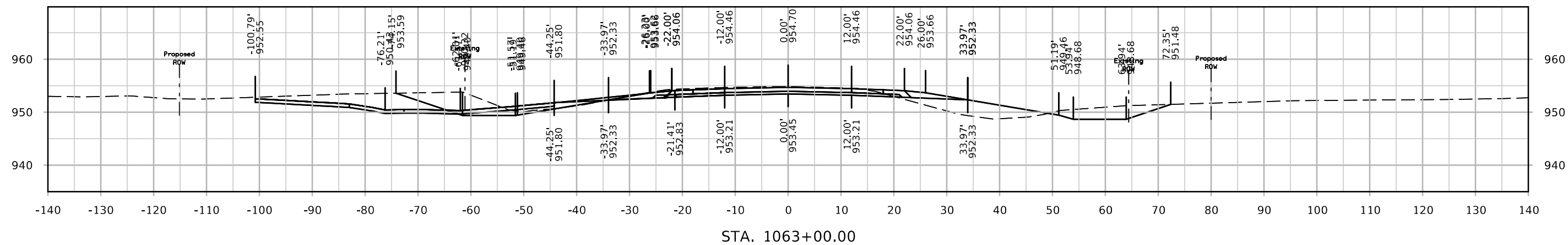
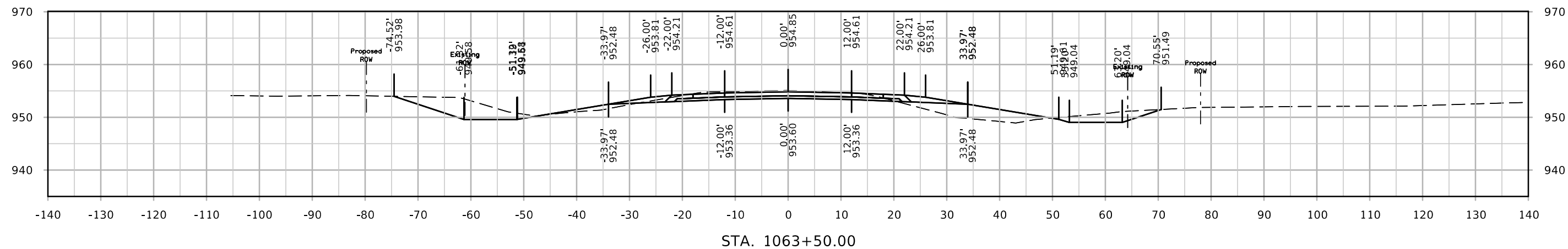
STA. 1062+00.00

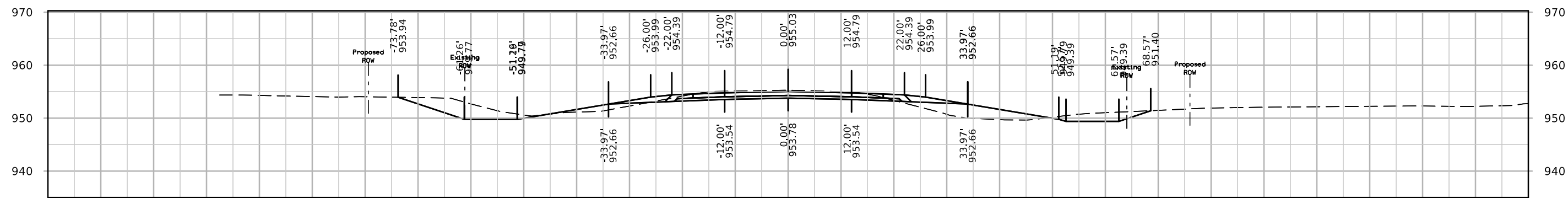
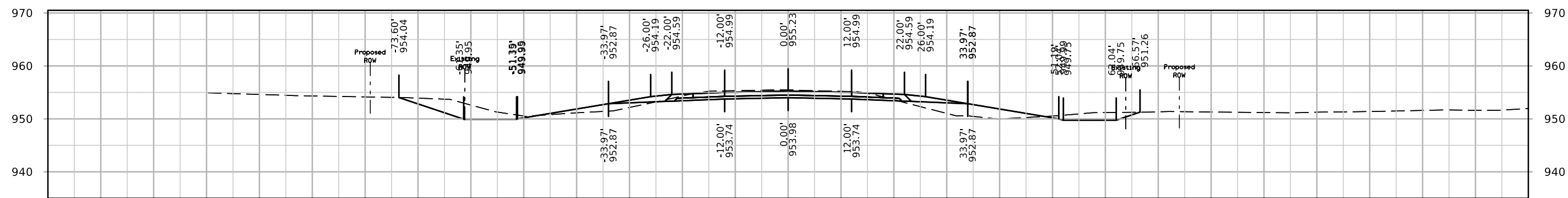
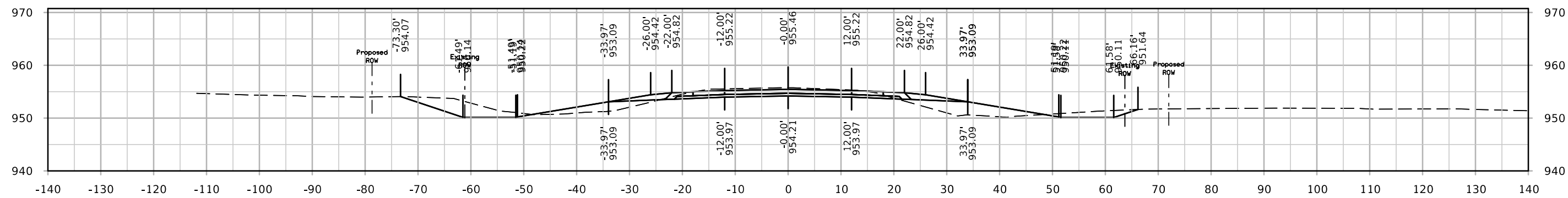


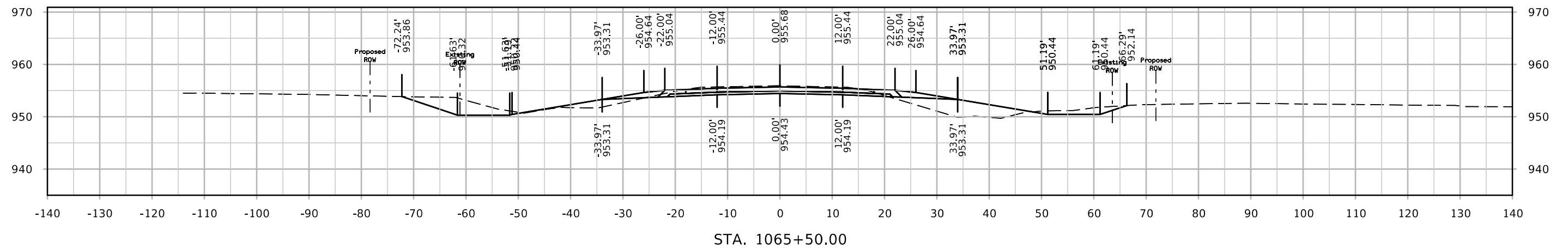
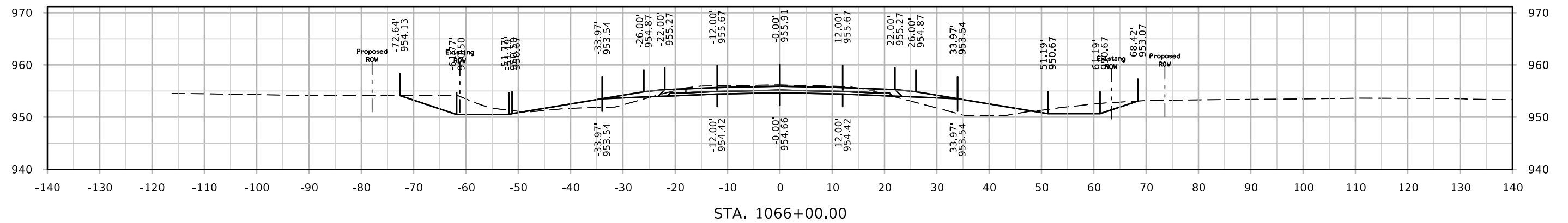
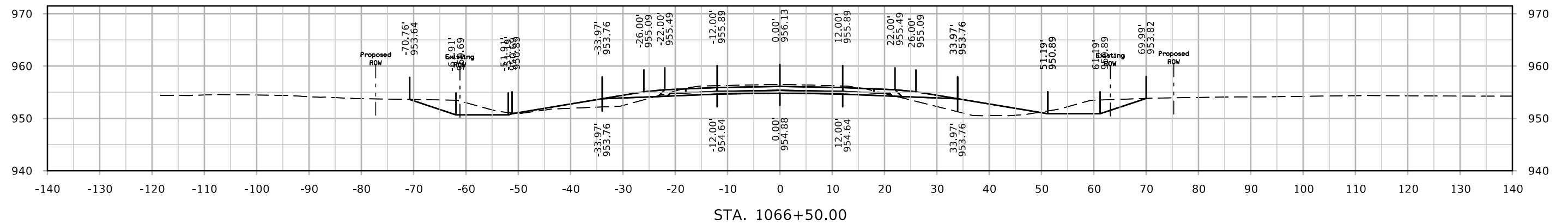
STA. 1061+75.00



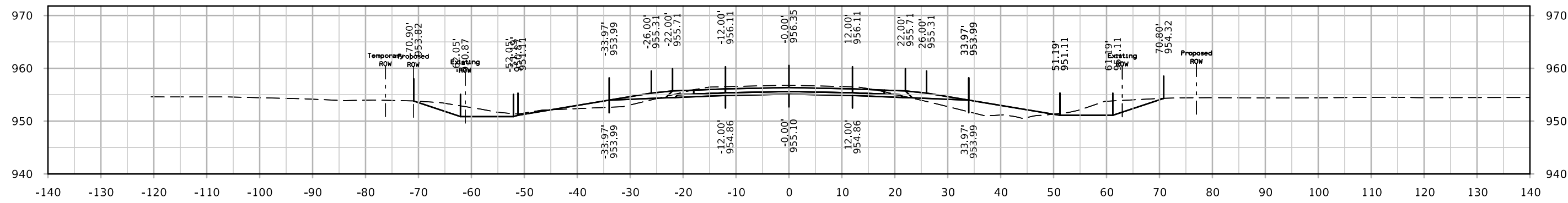
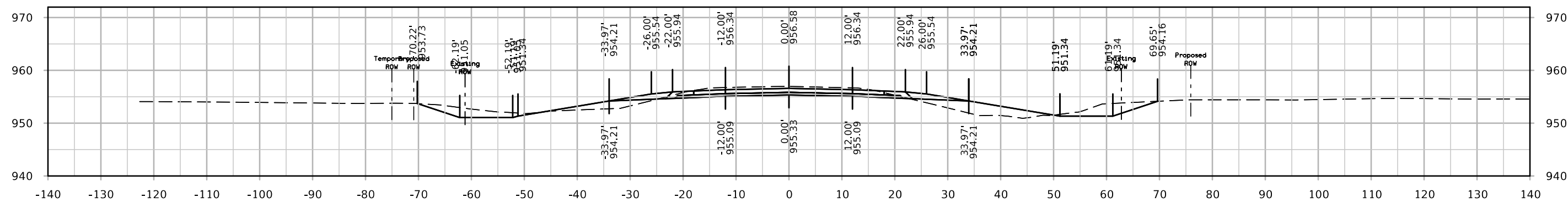
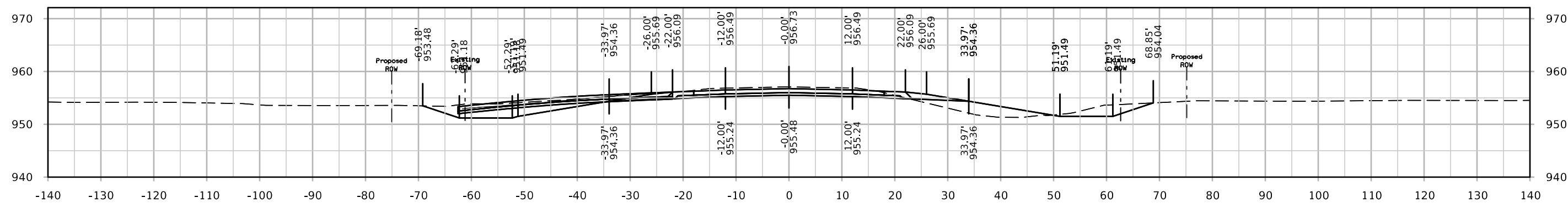
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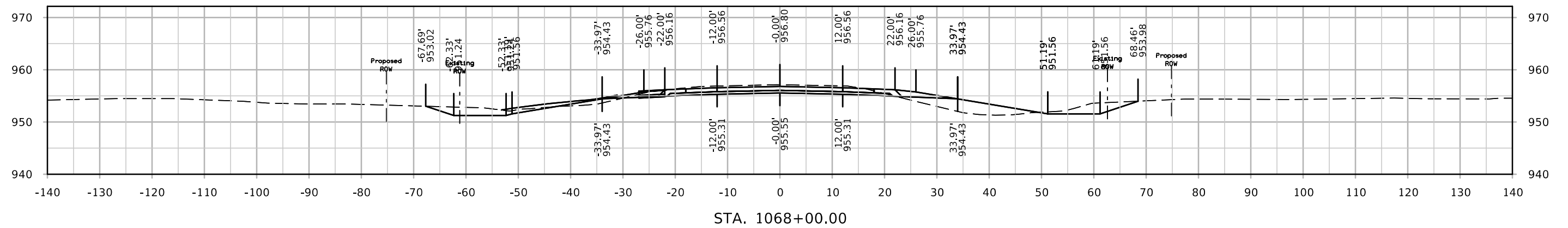
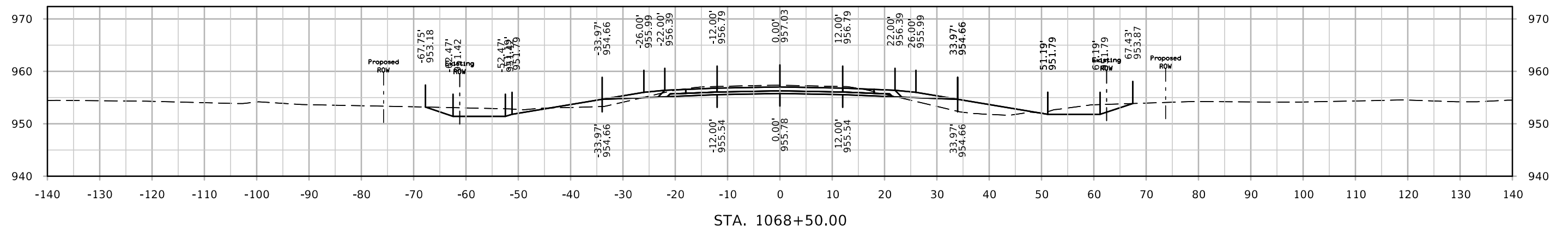
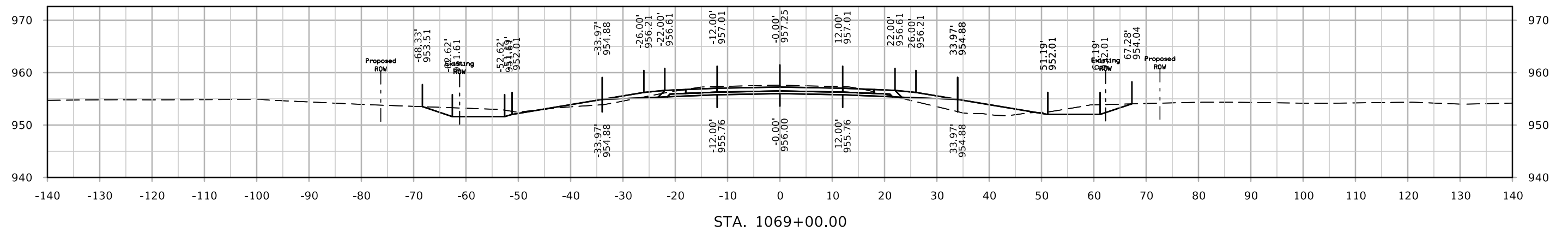


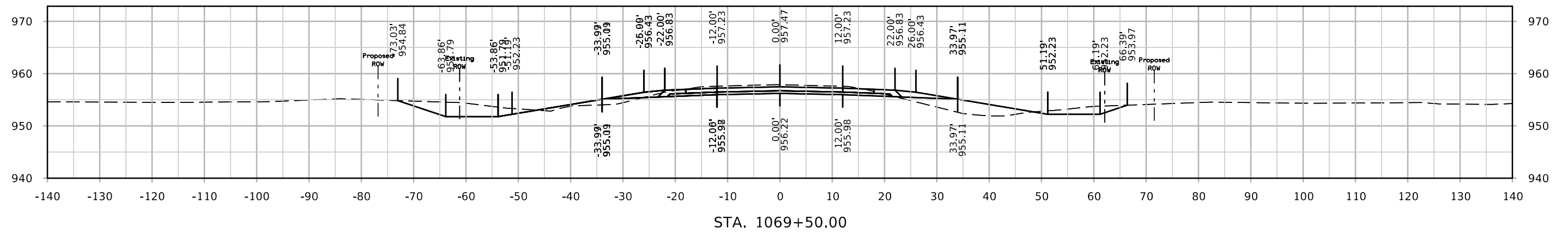
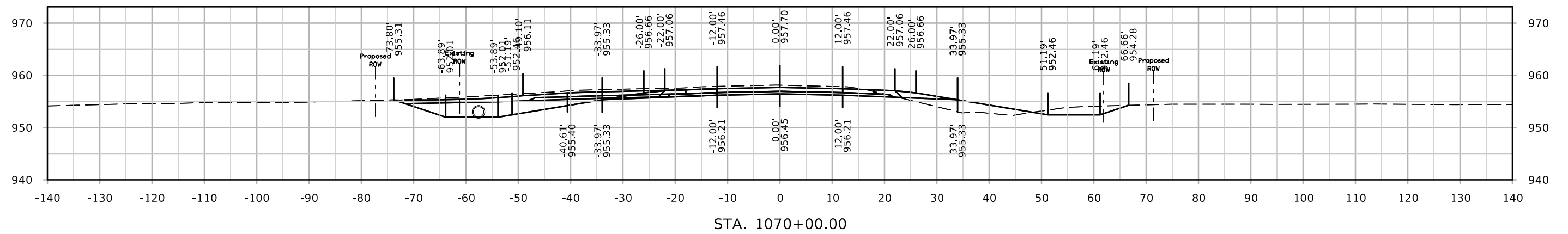
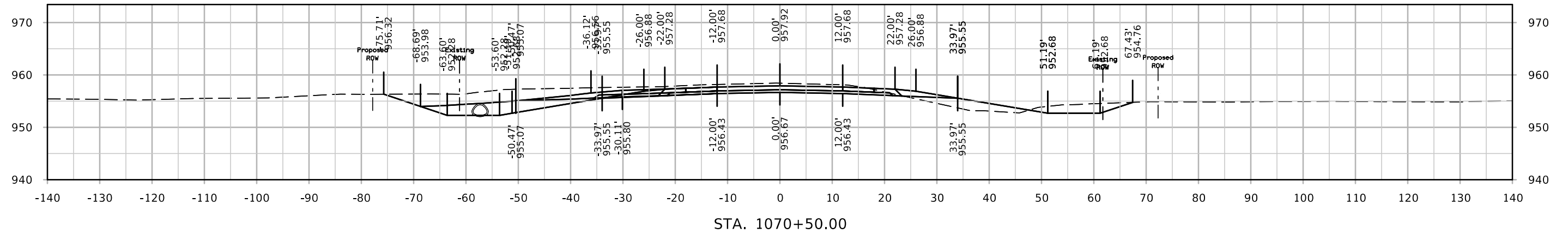


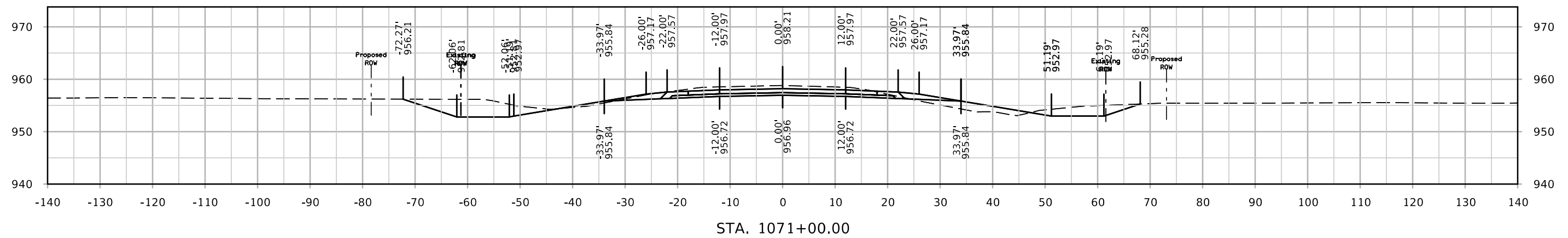
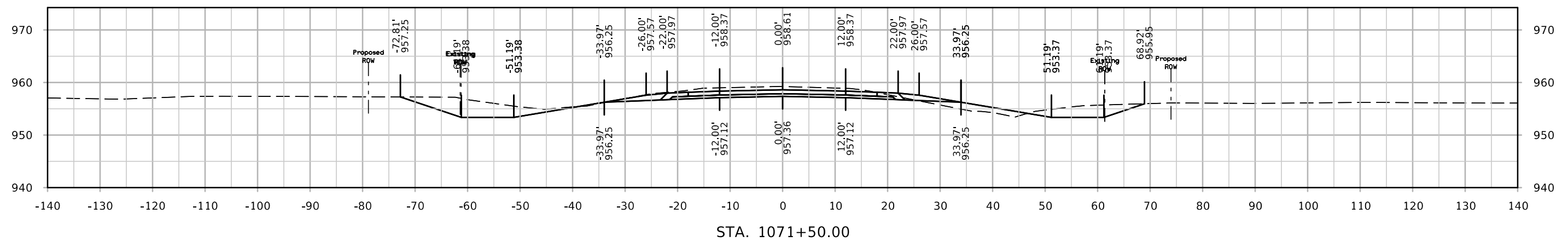
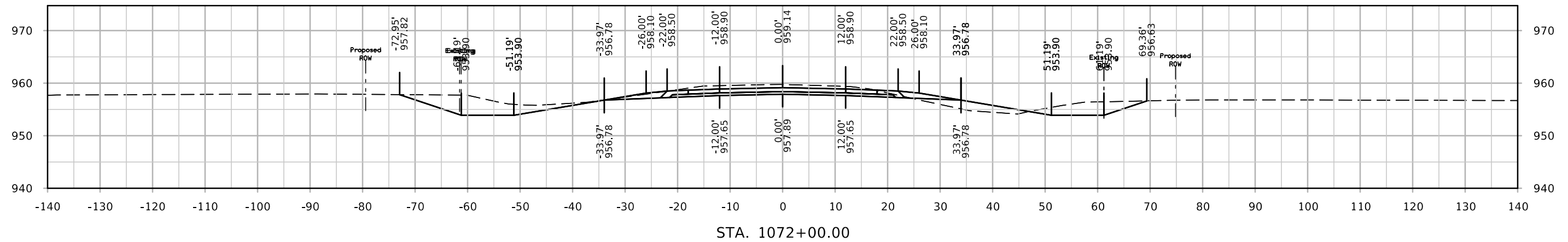


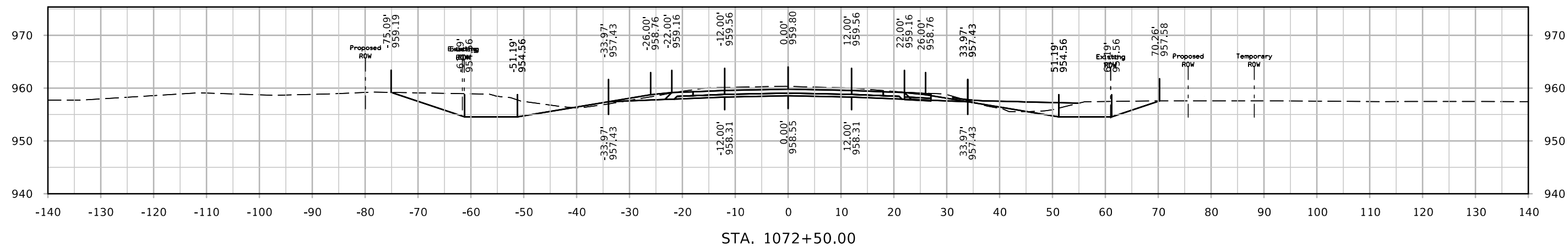
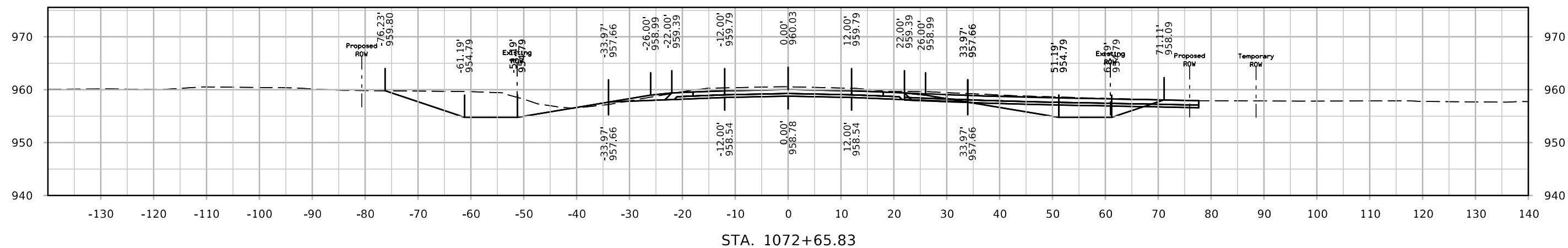
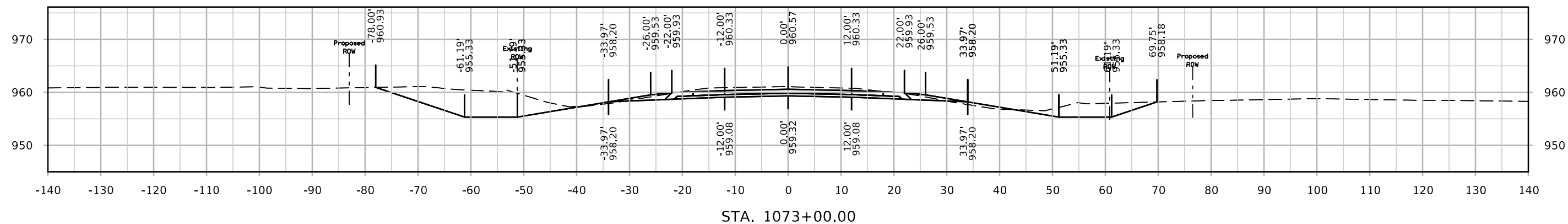


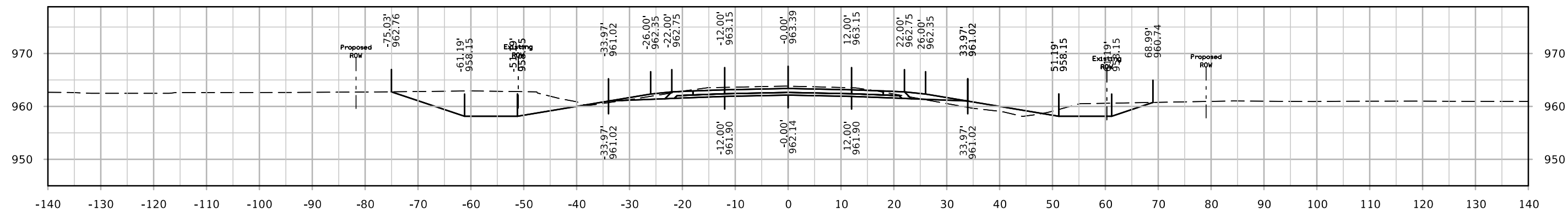




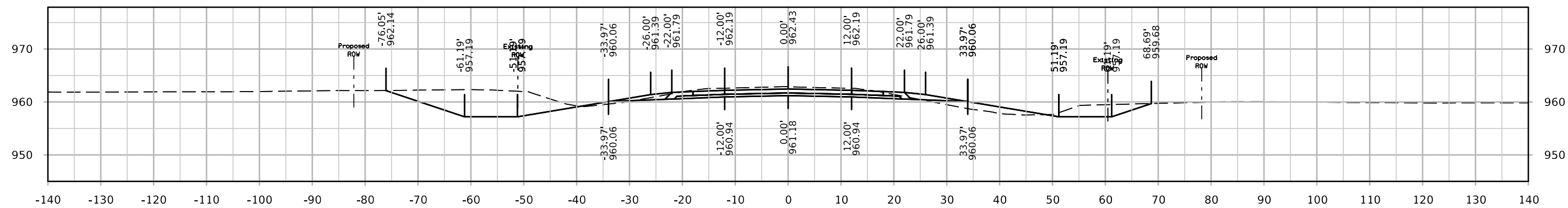




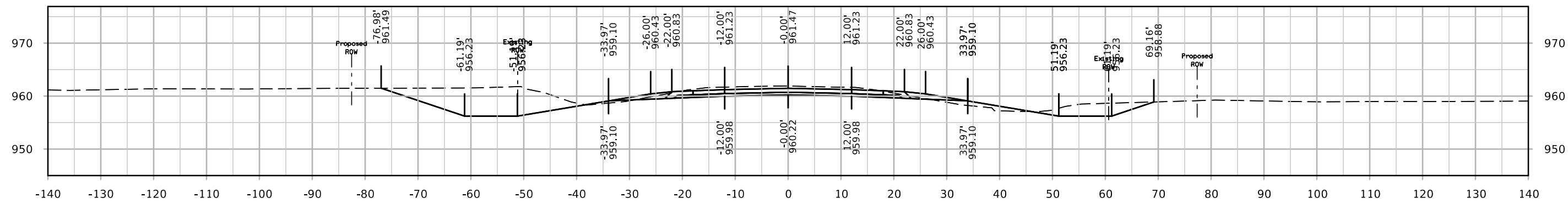




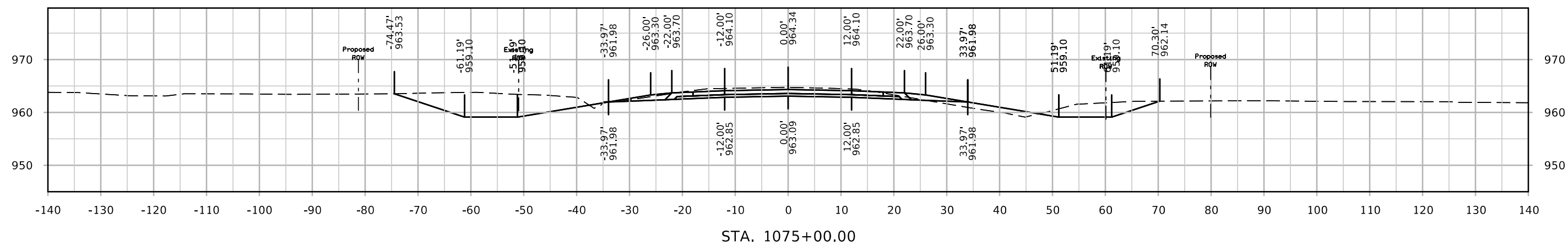
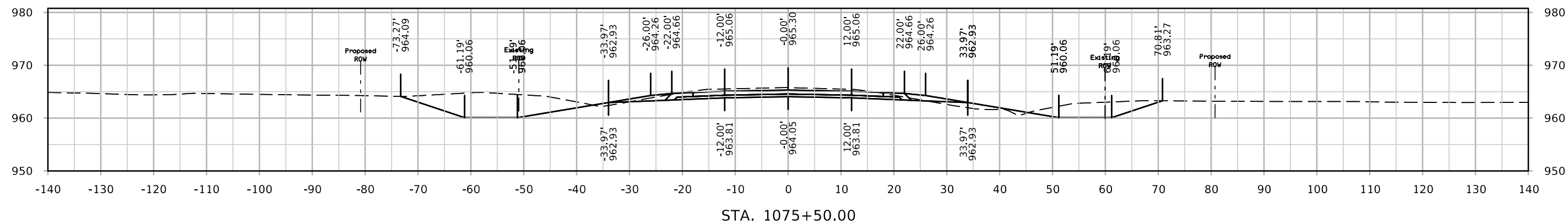
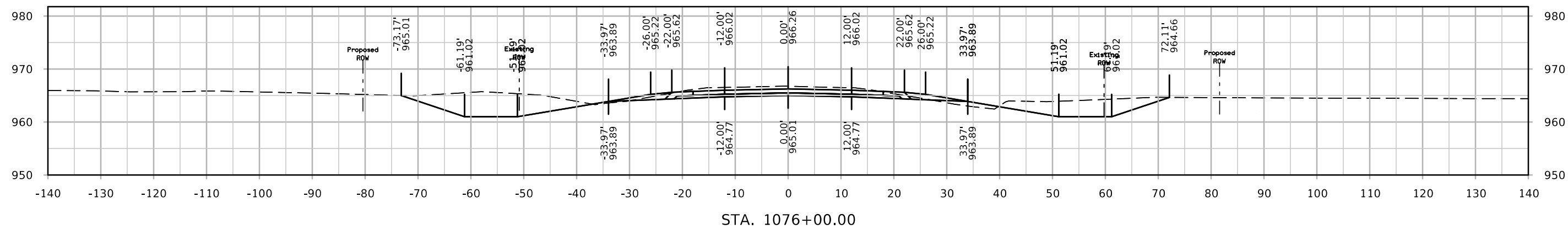
STA. 1074+50.00

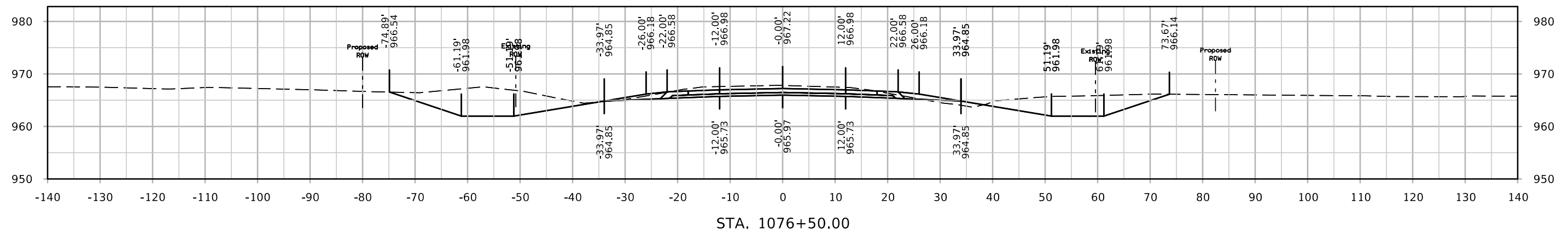
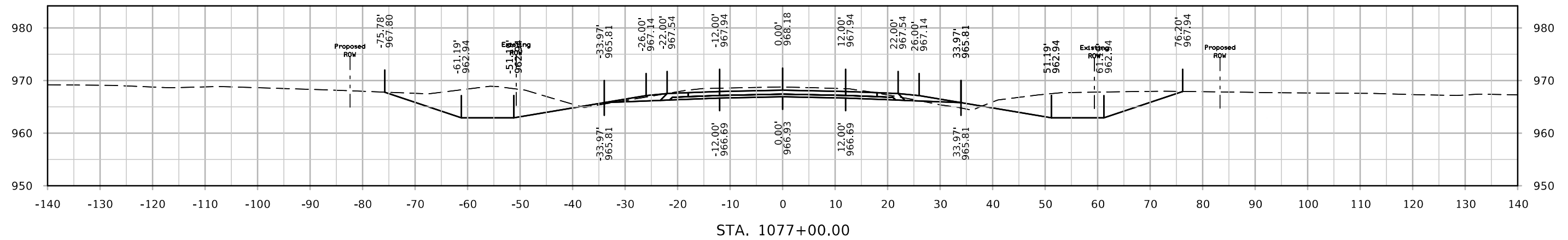
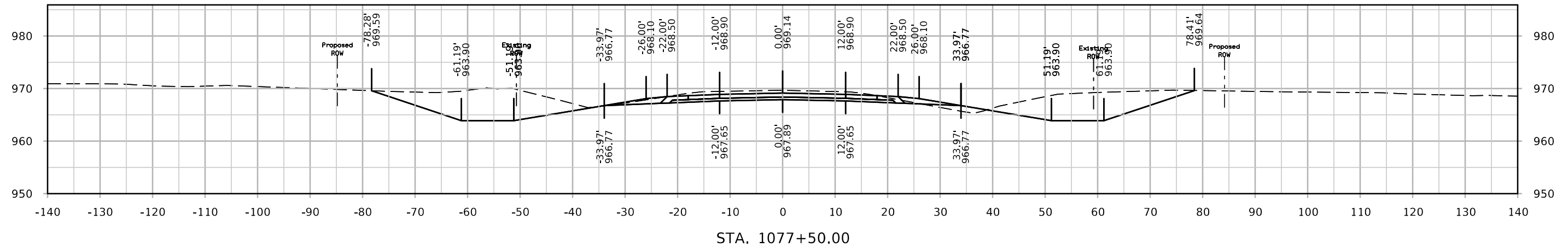


STA. 1074+00.00

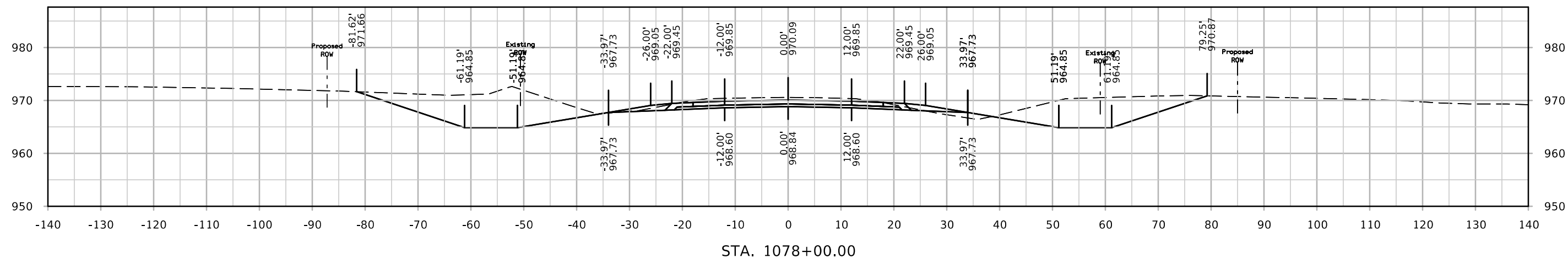
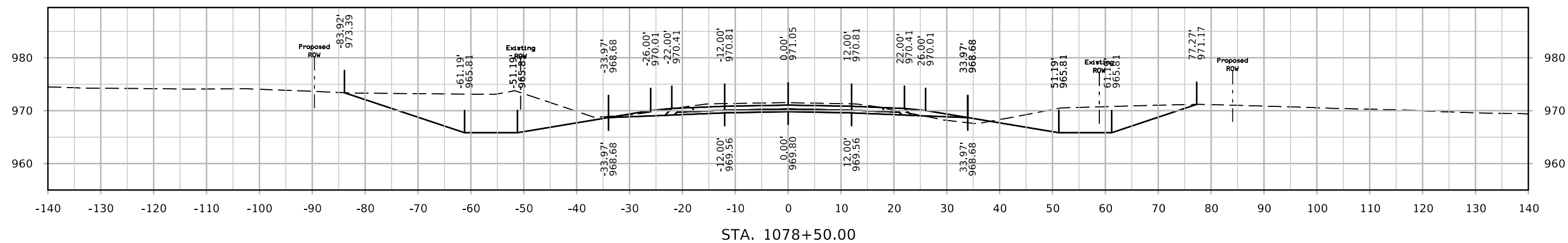
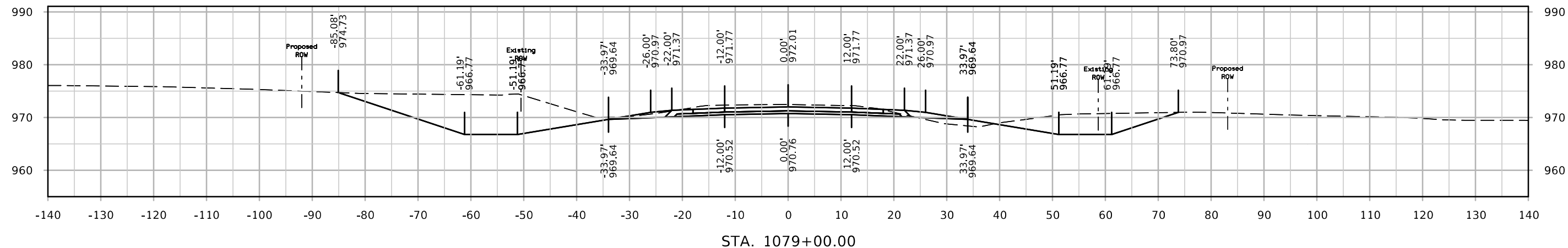


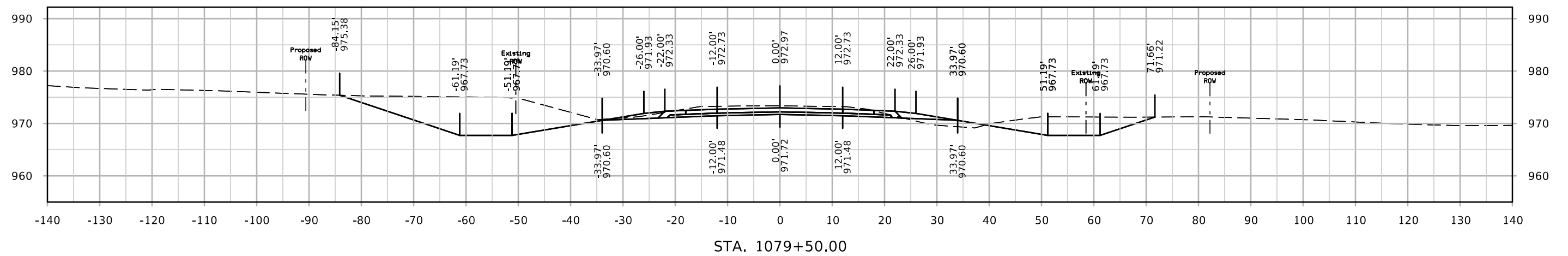
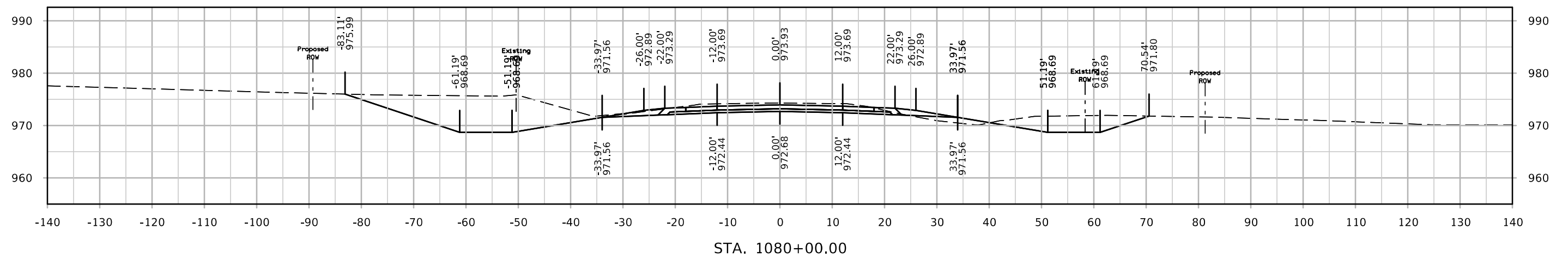
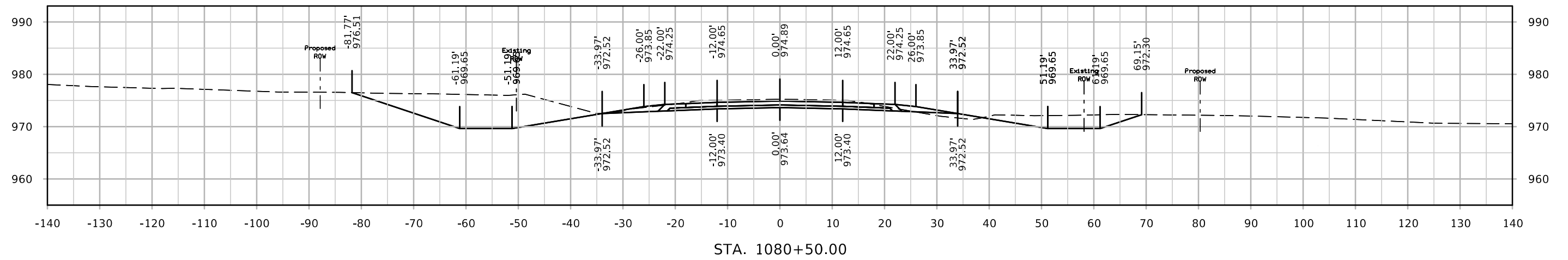
STA. 1073+50.00

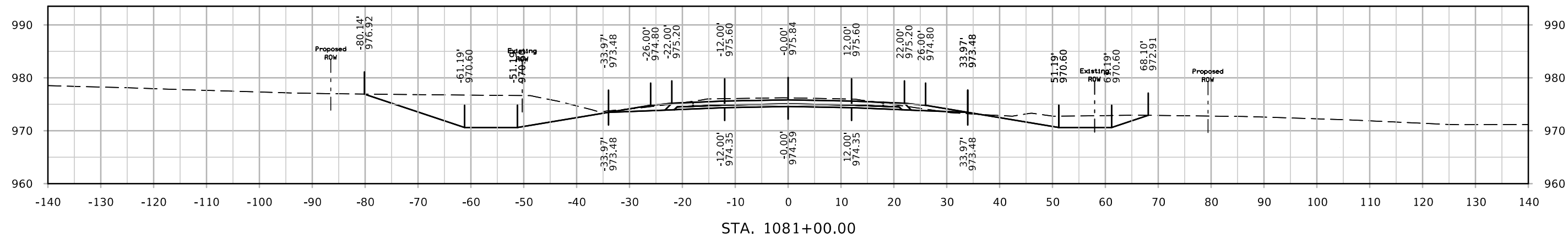
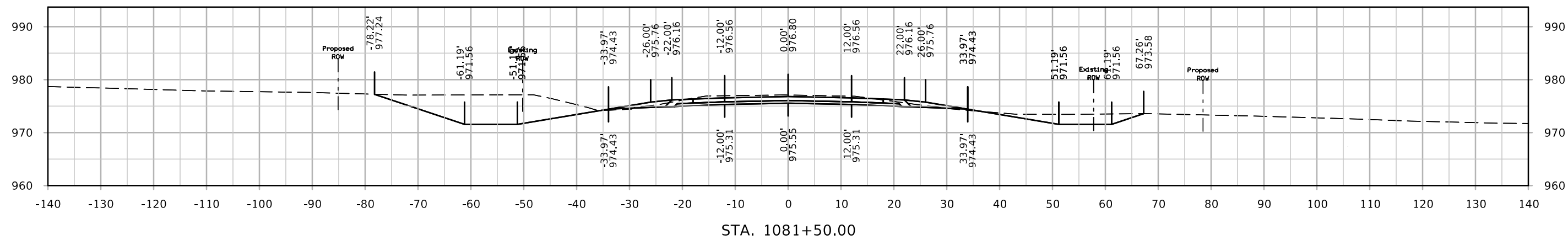
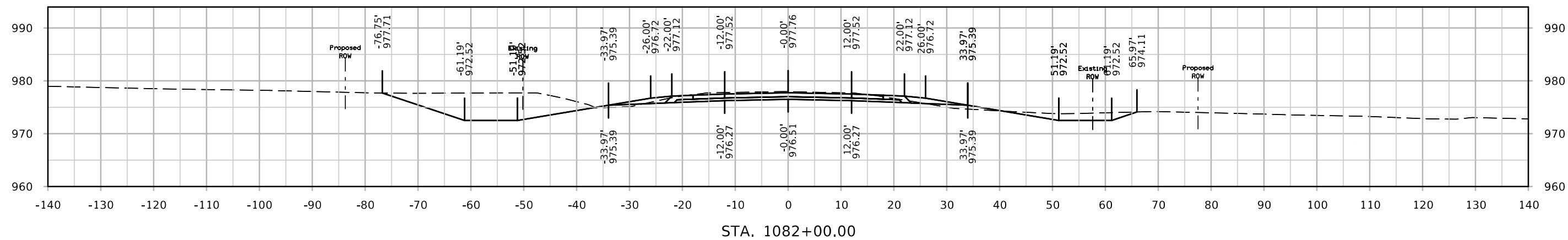


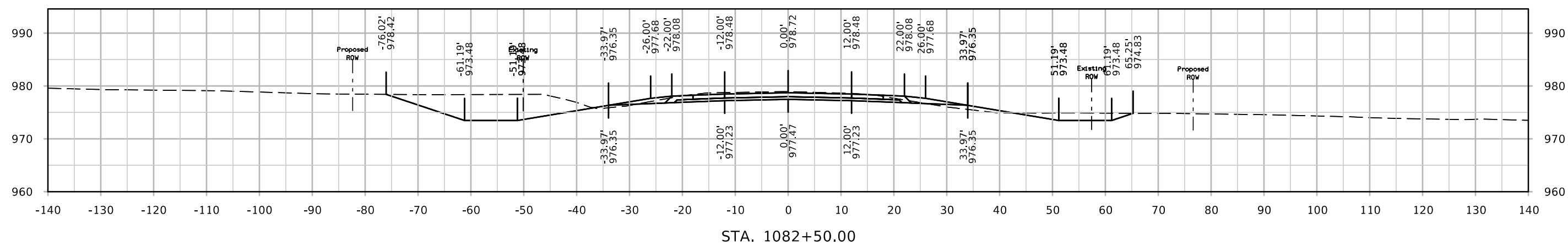
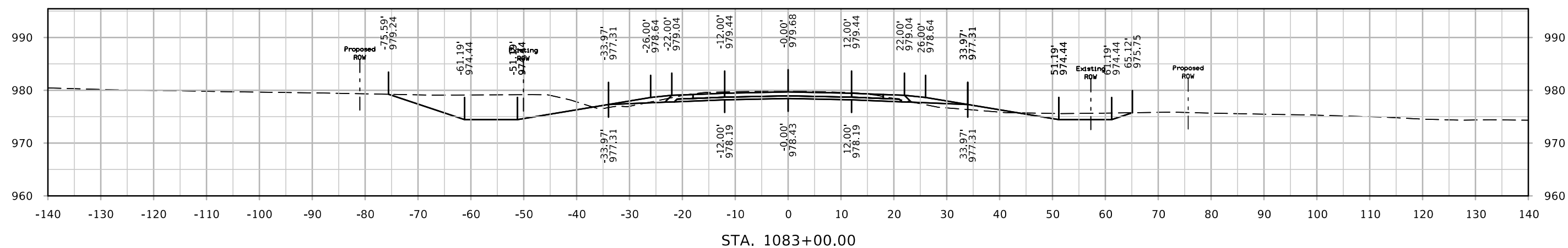
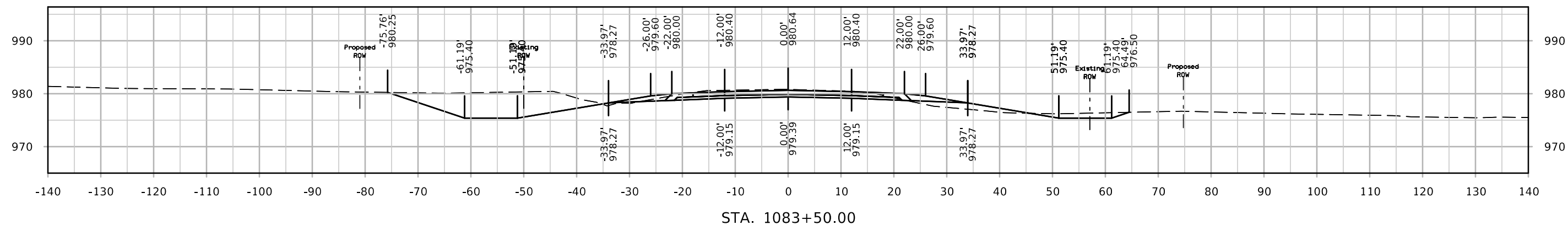


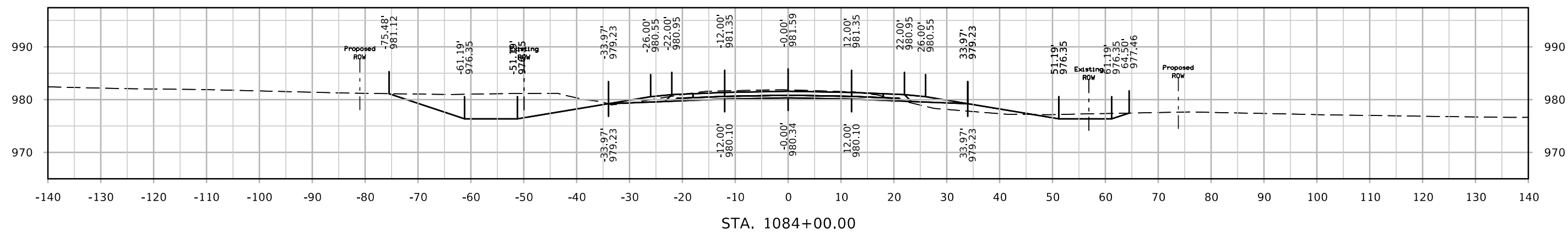
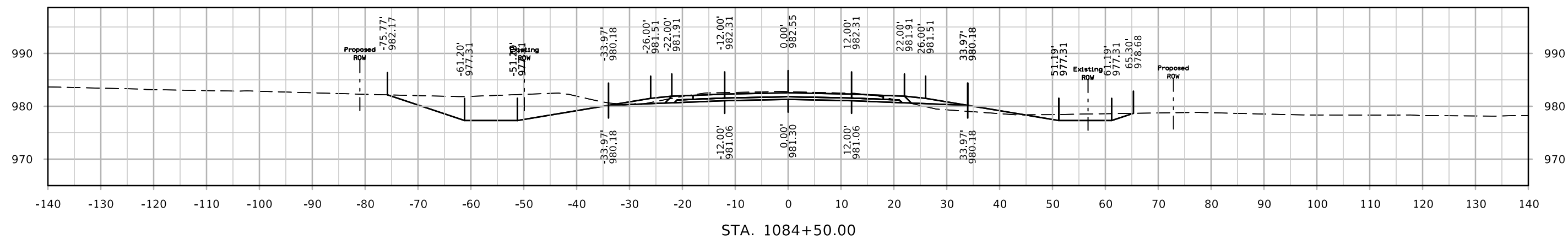
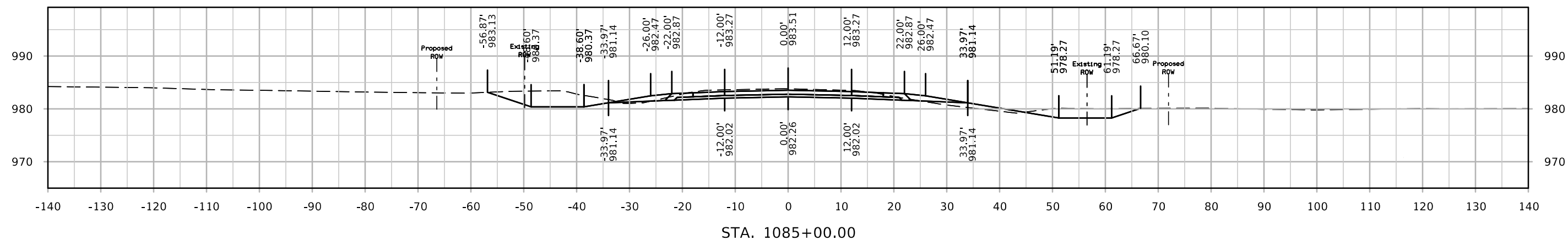


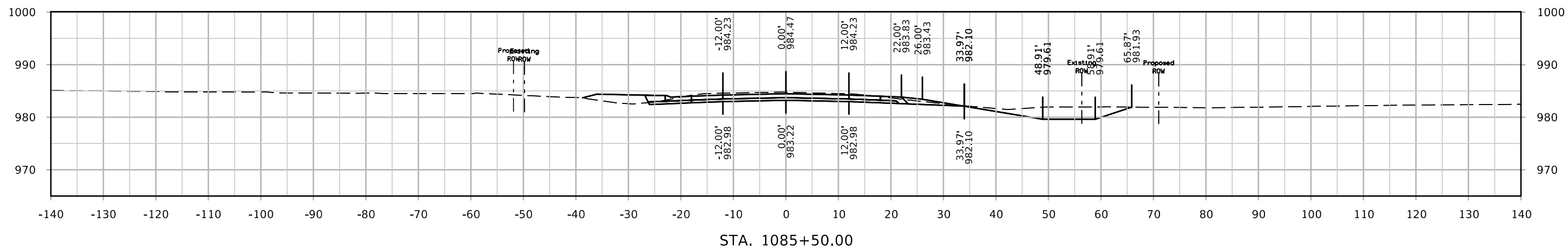
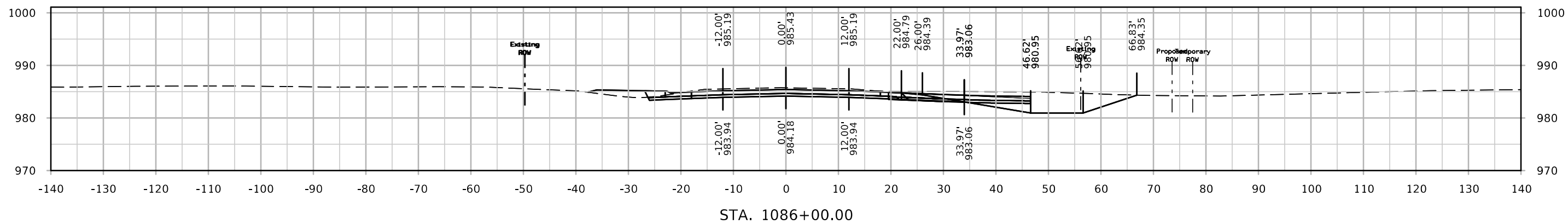
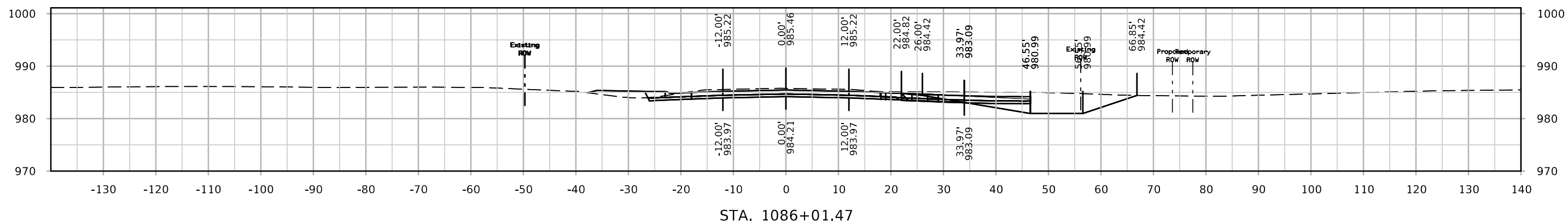


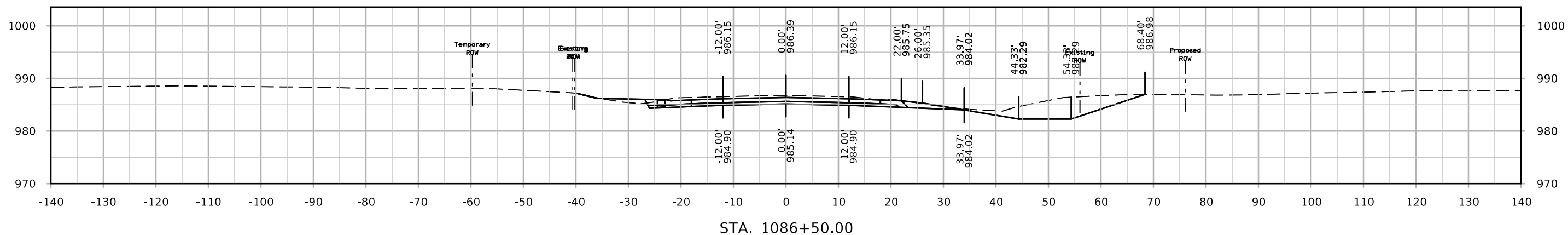
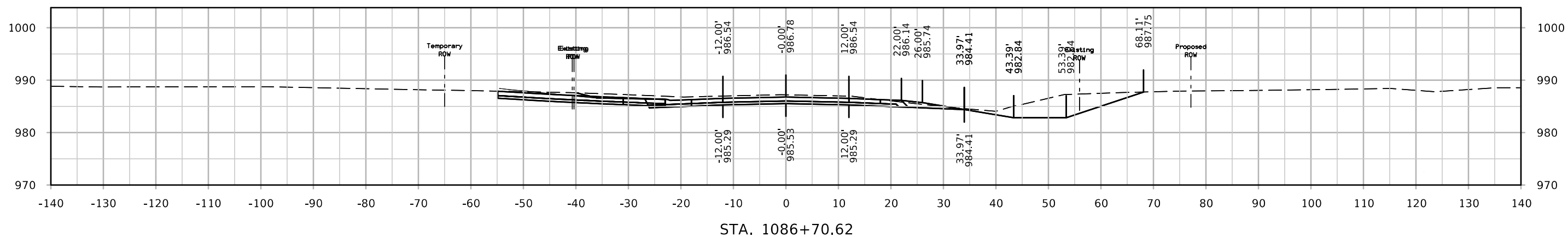
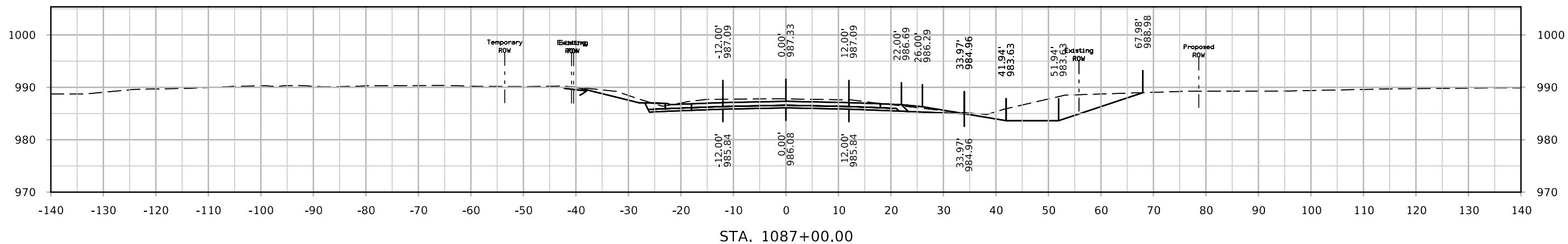


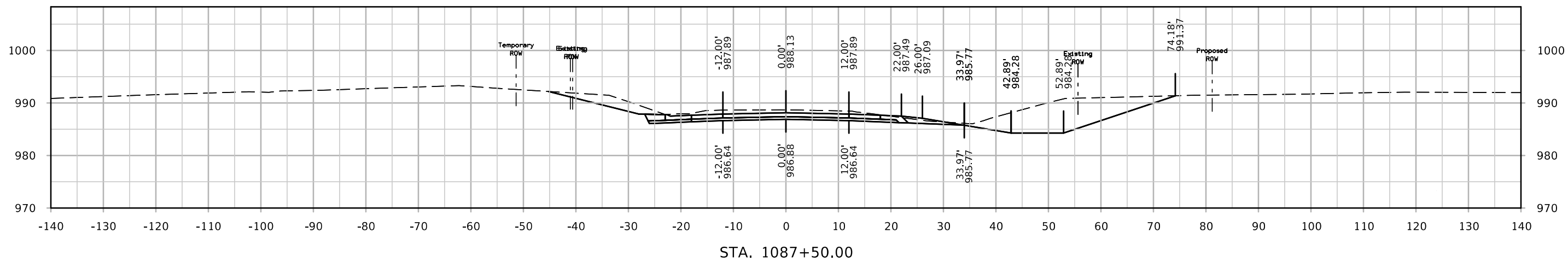
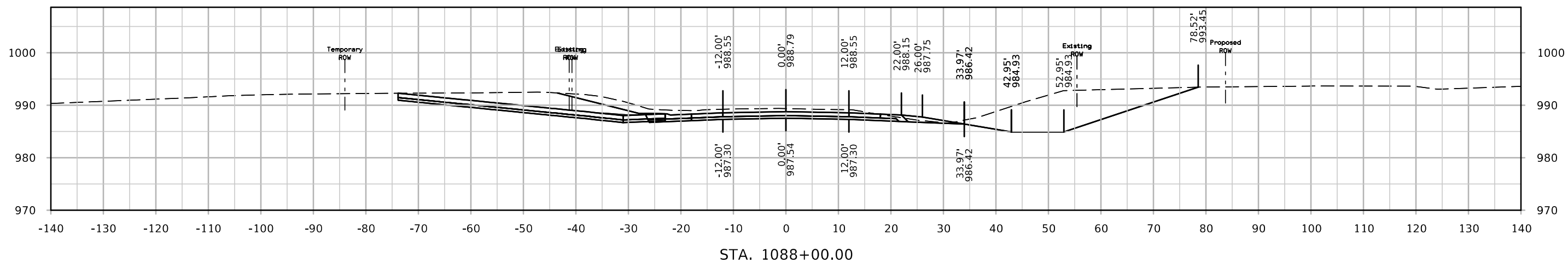
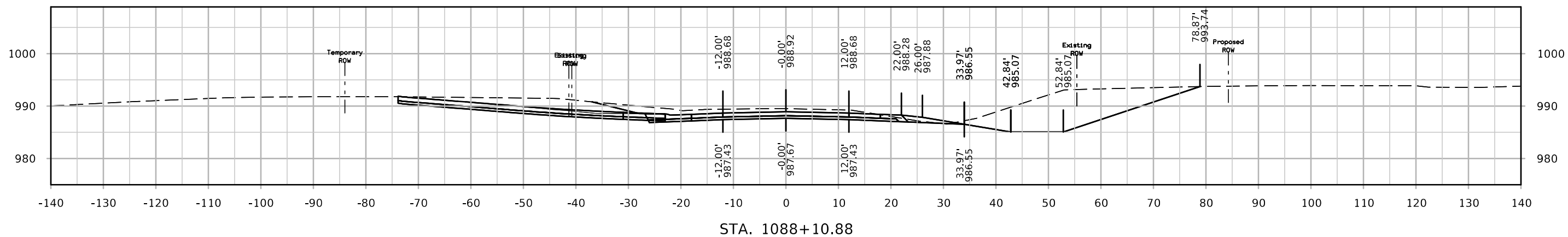




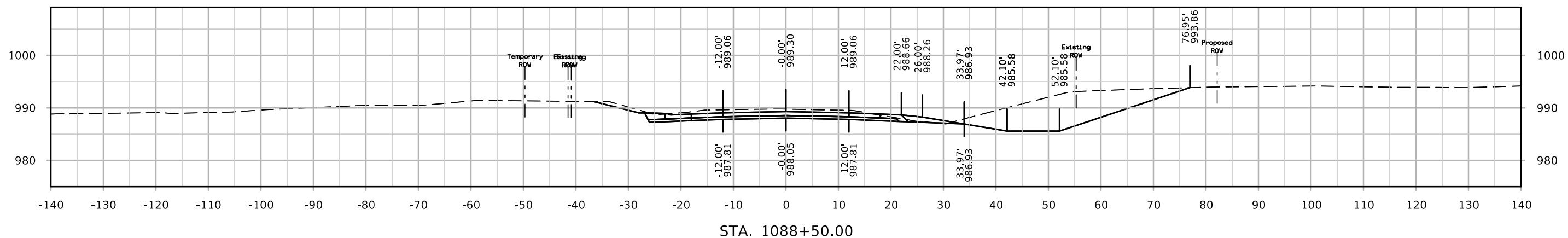
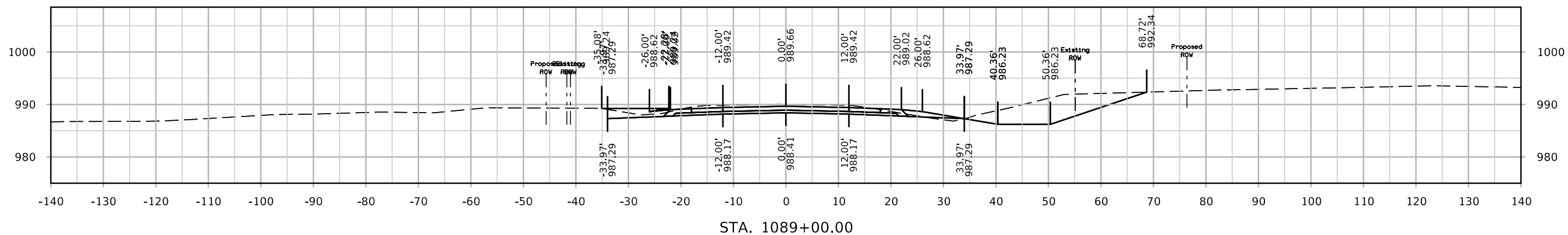
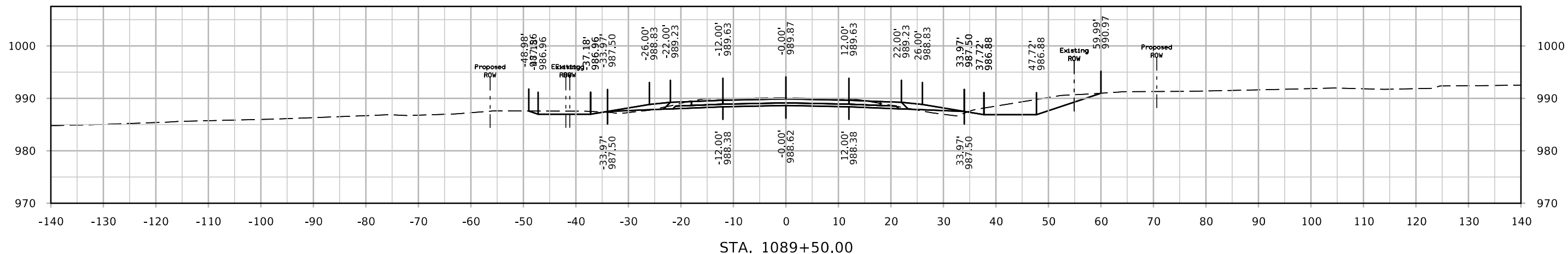


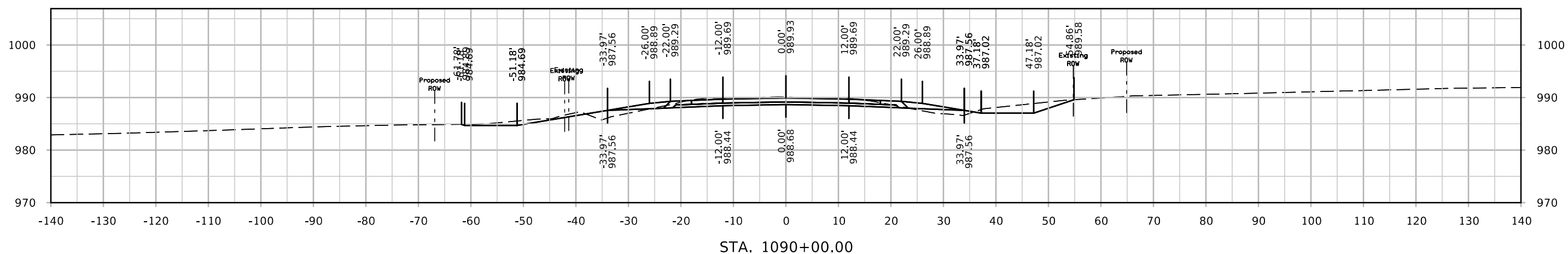
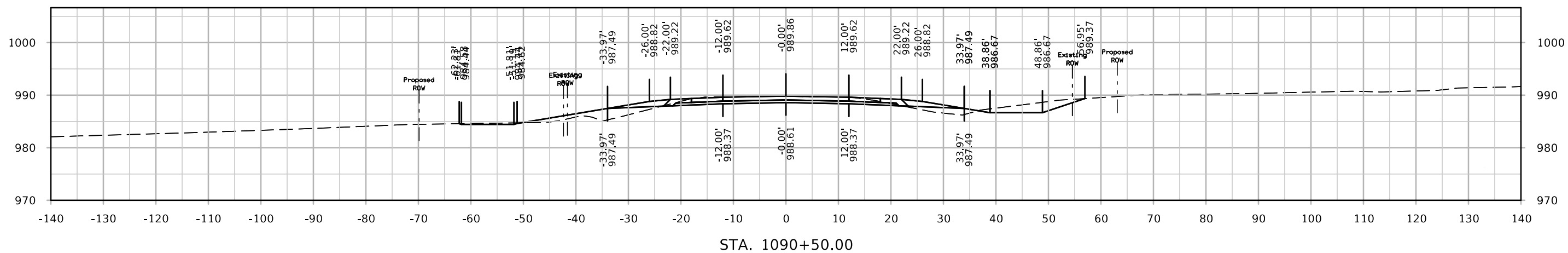
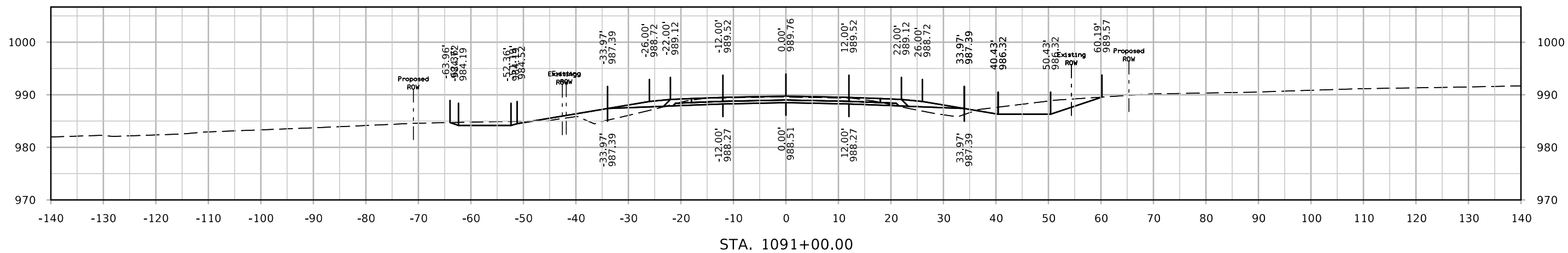


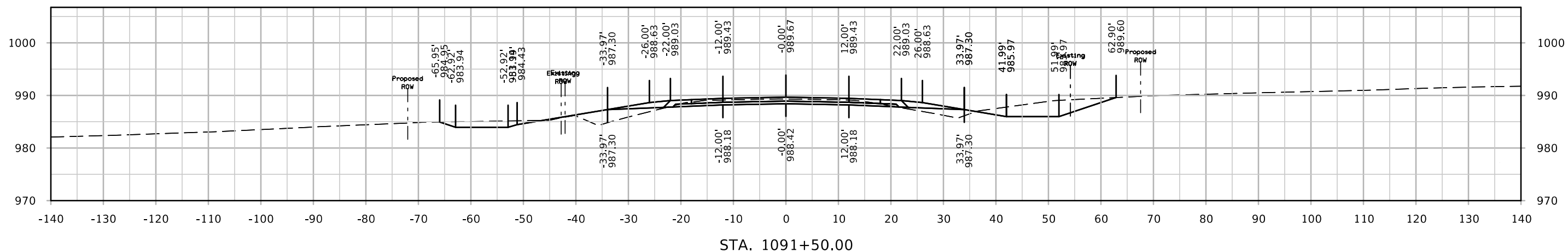
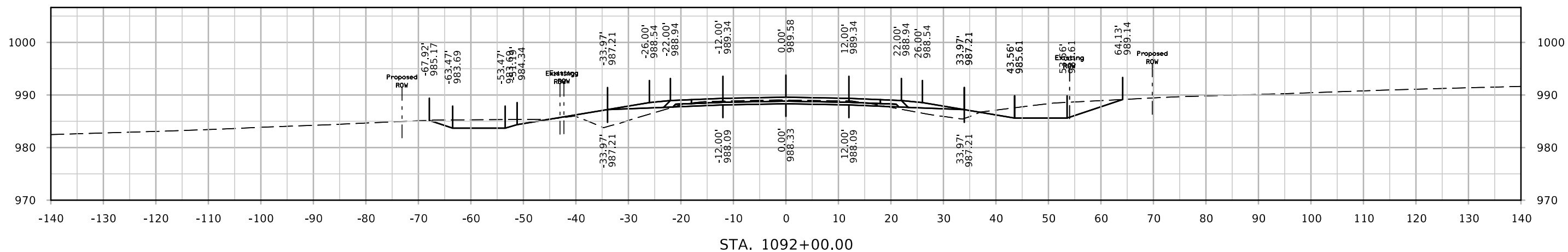
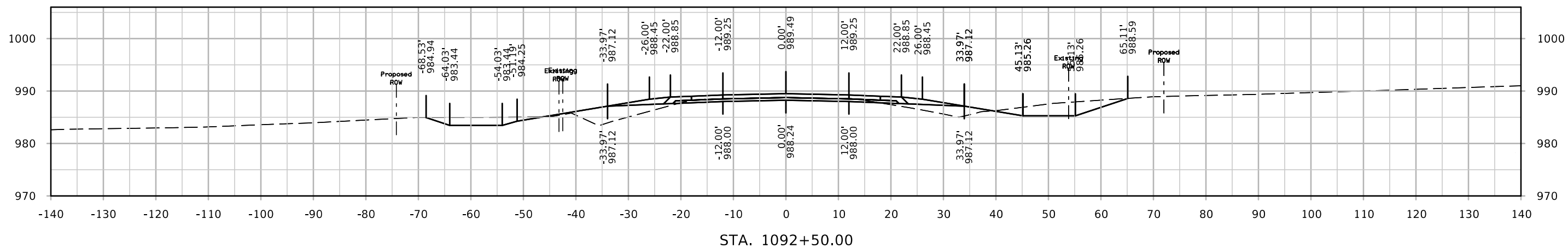


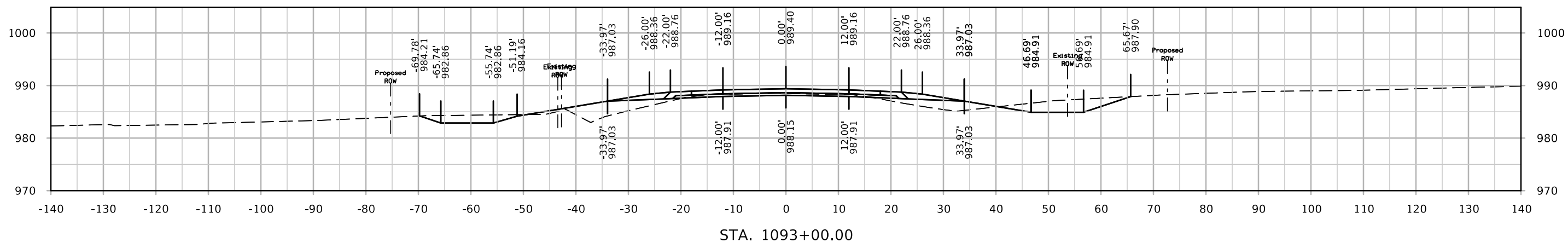
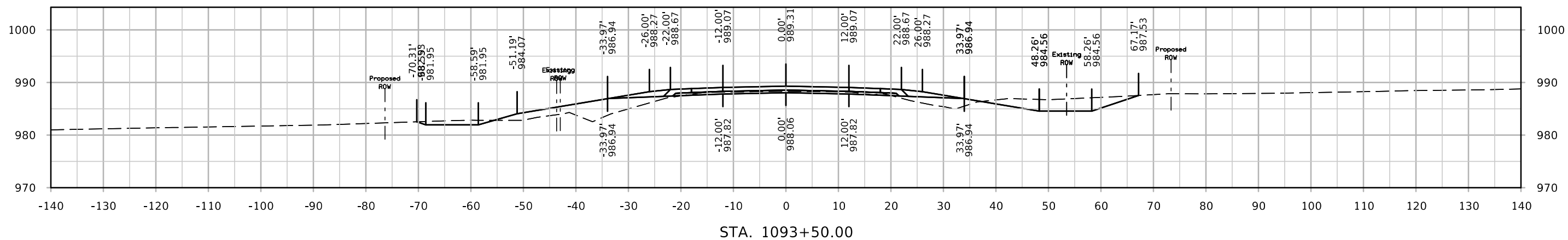
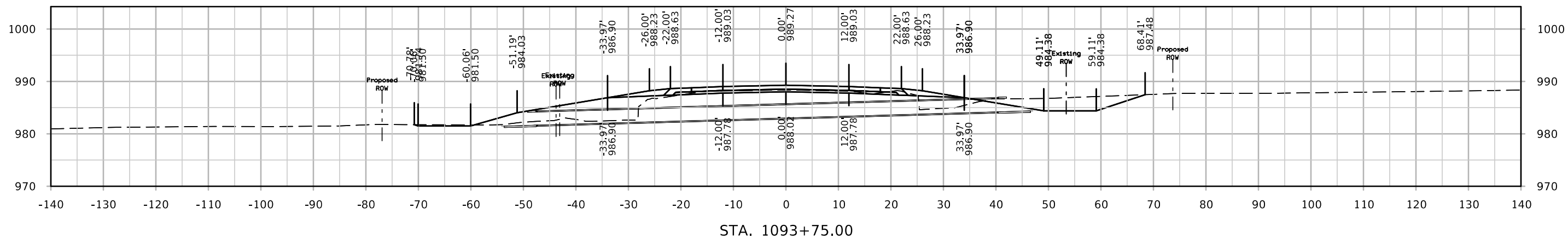


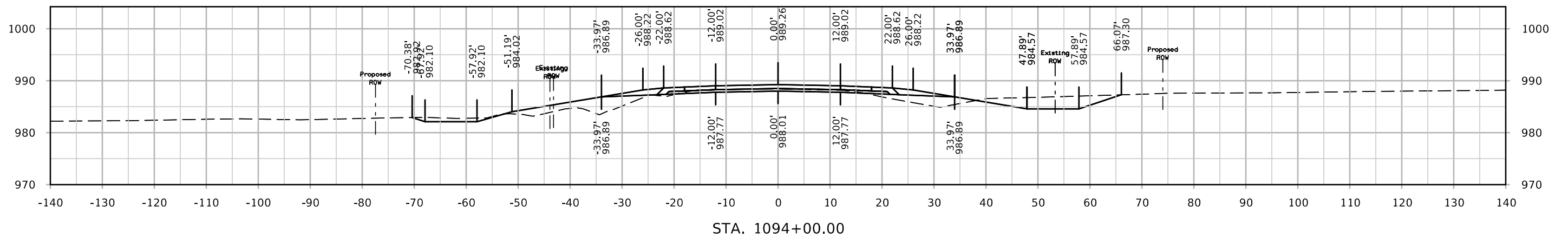
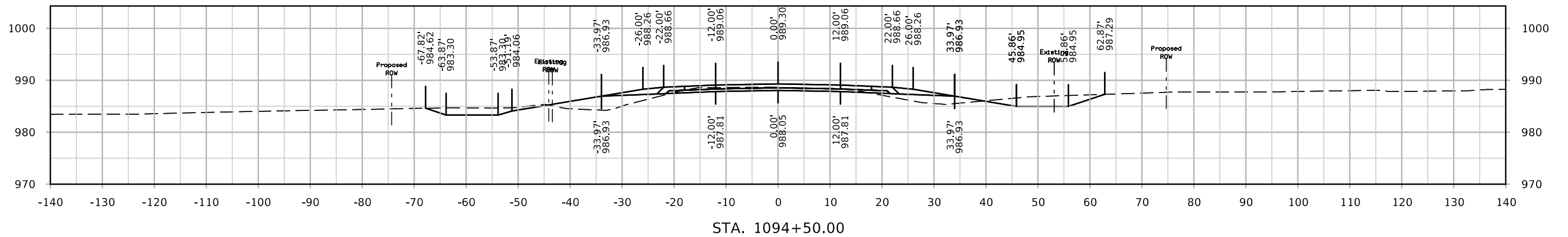
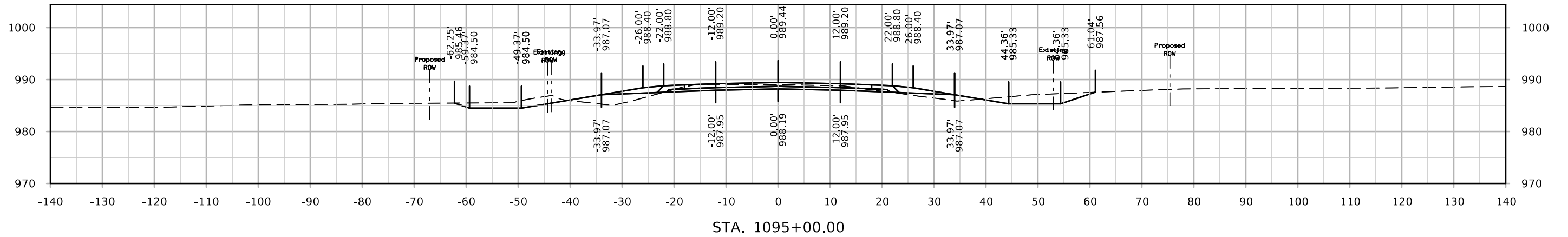


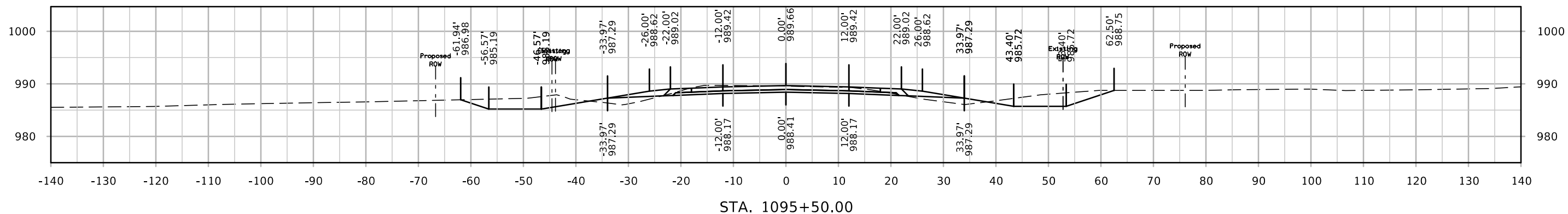
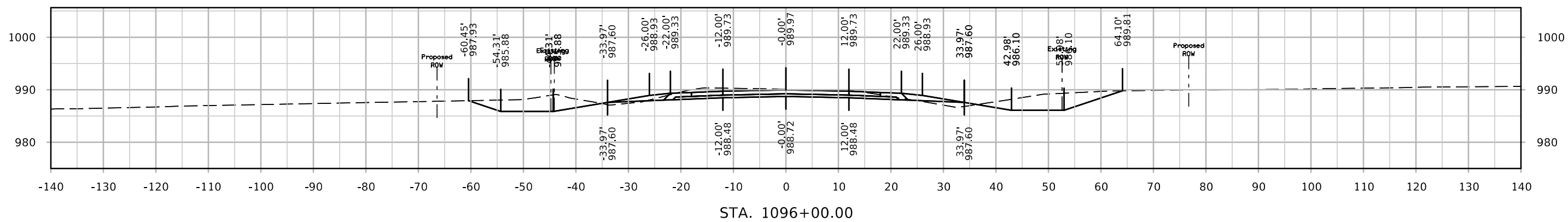
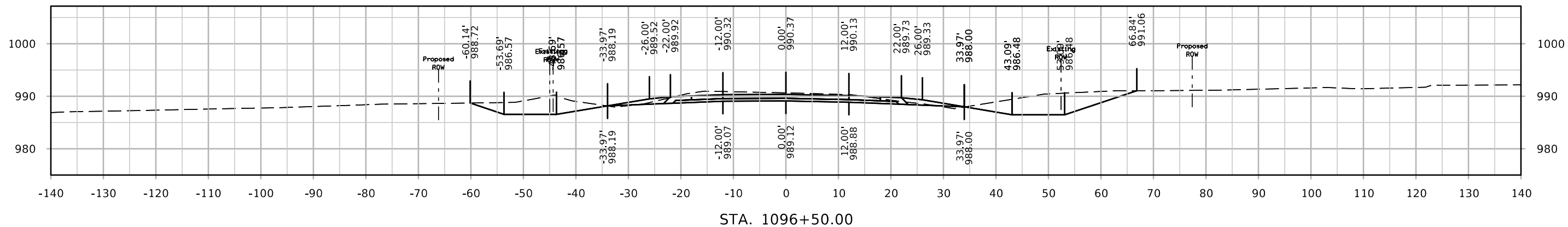


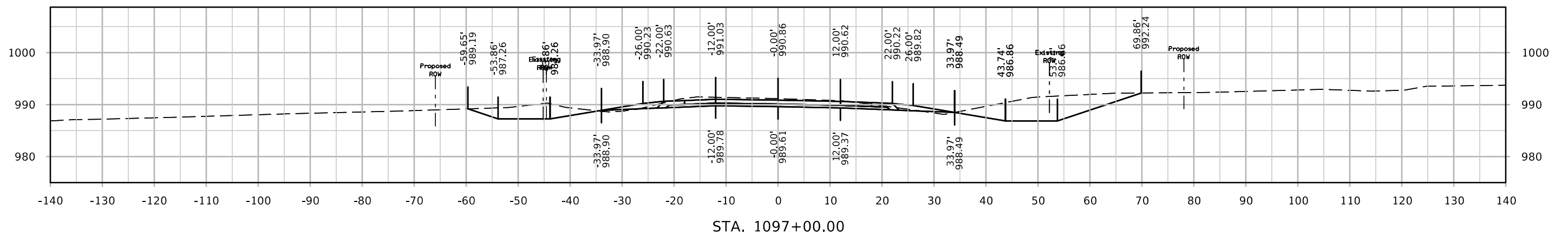
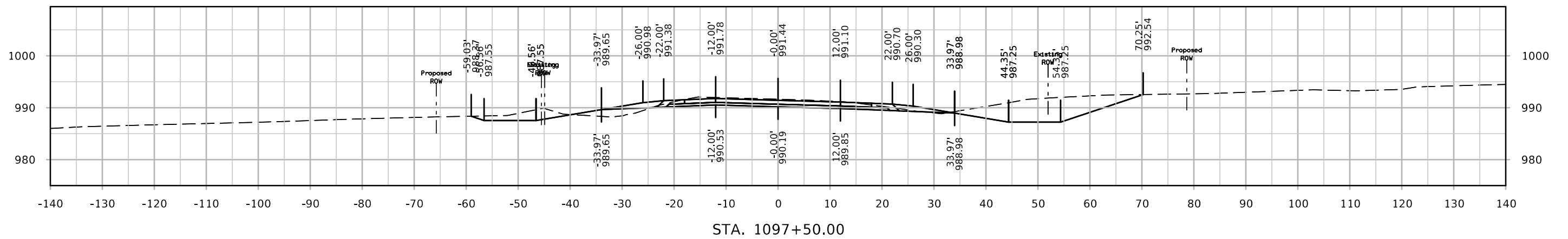
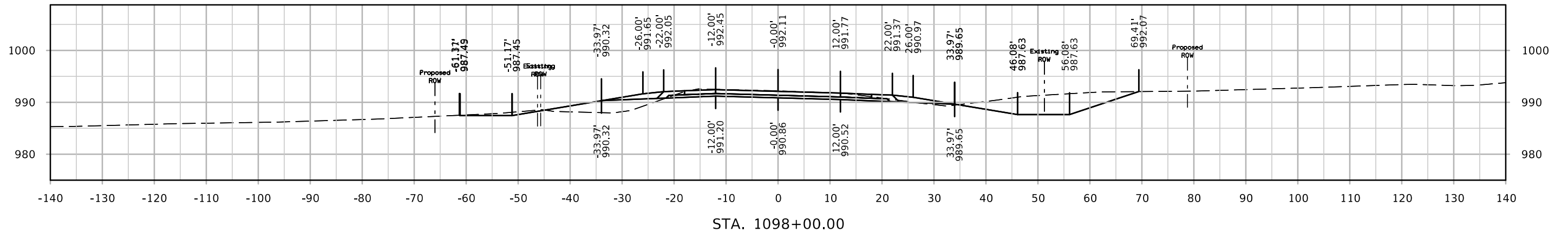


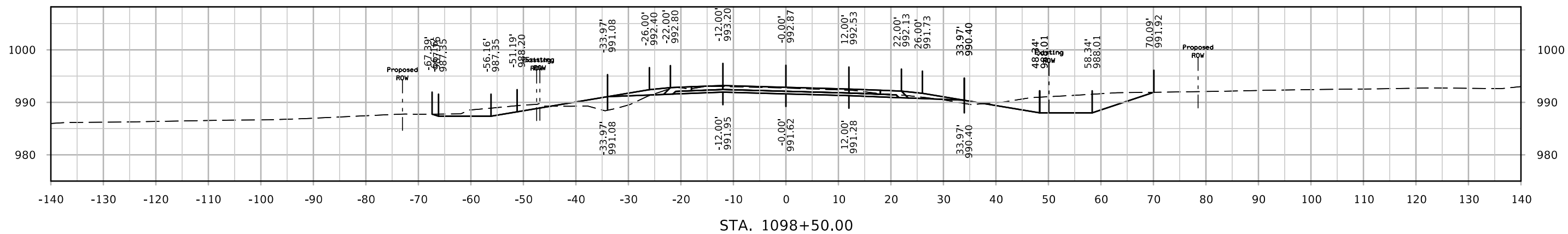
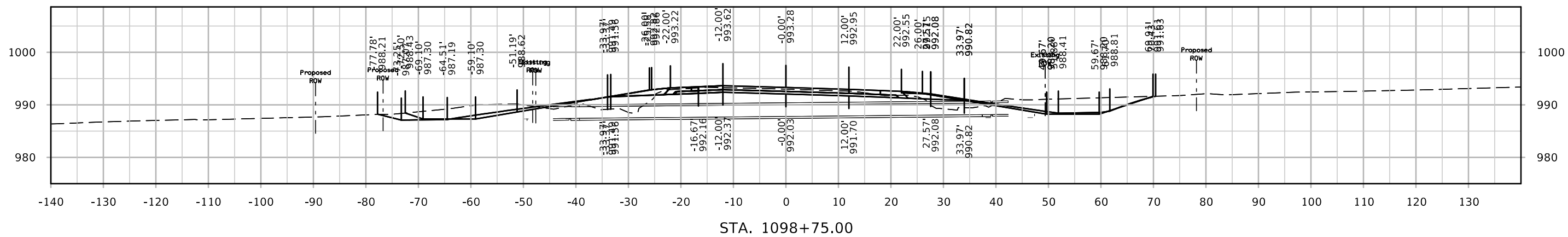
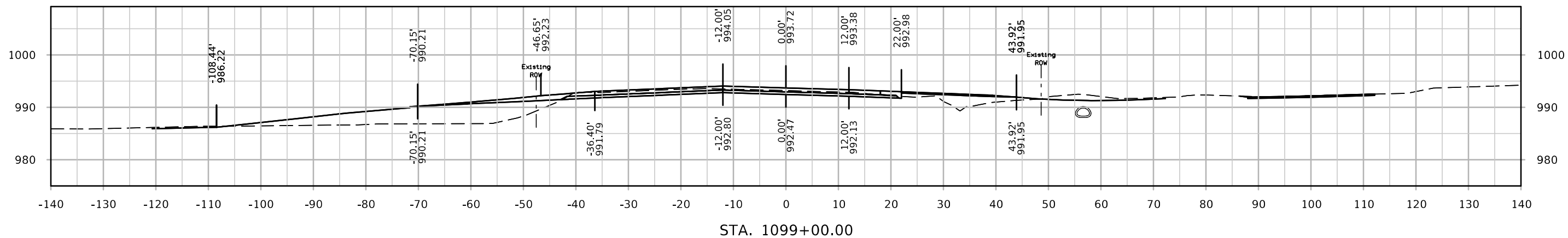




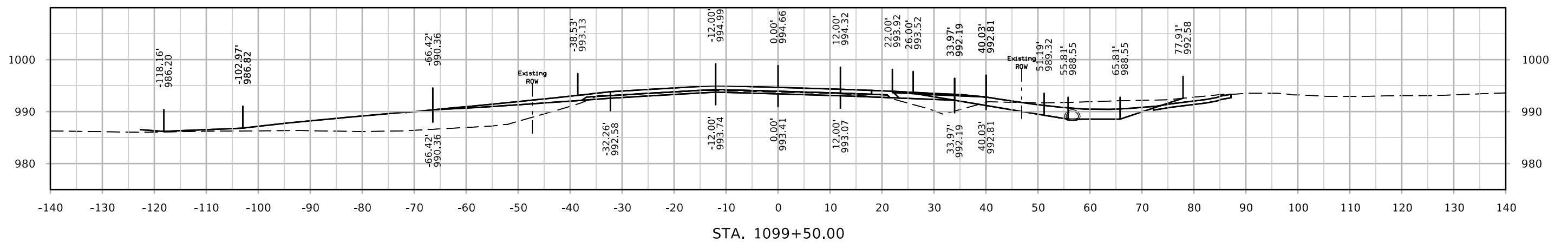
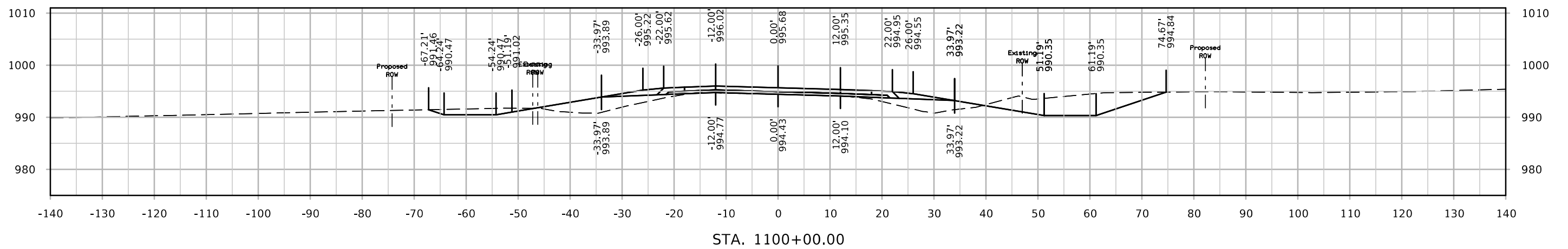
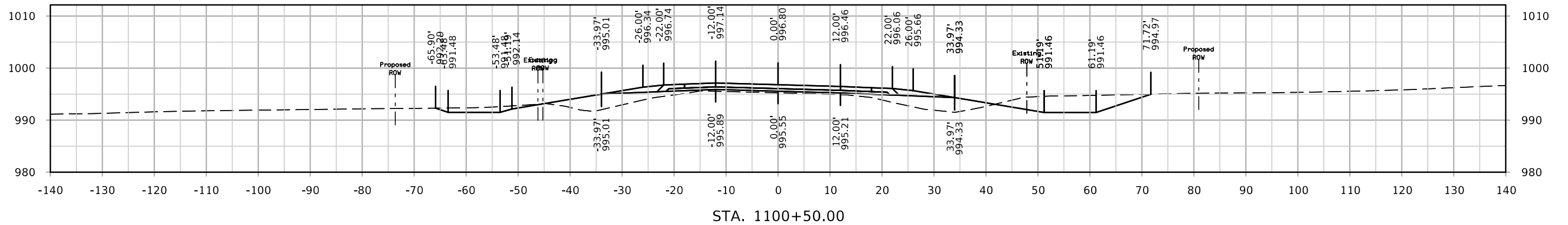


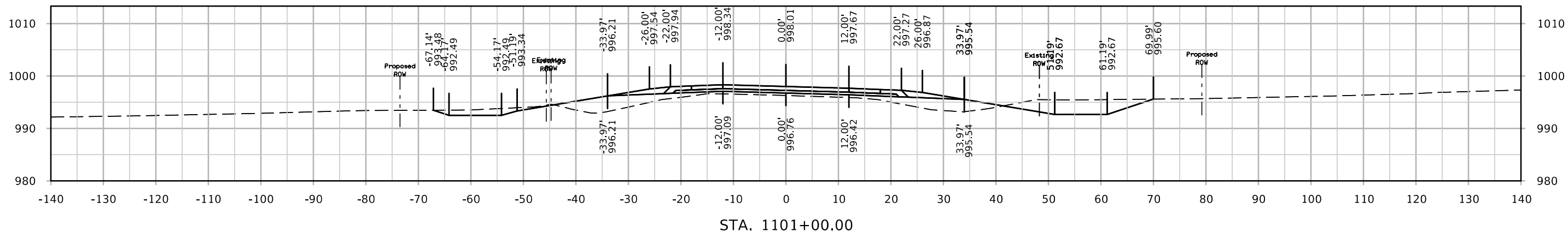
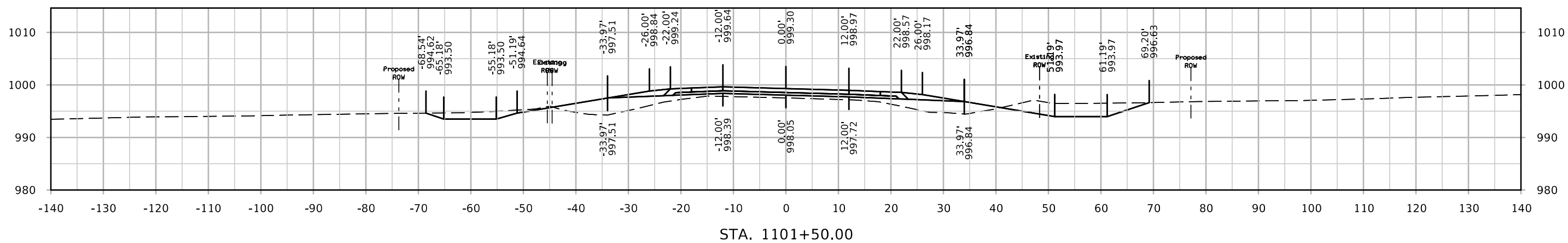
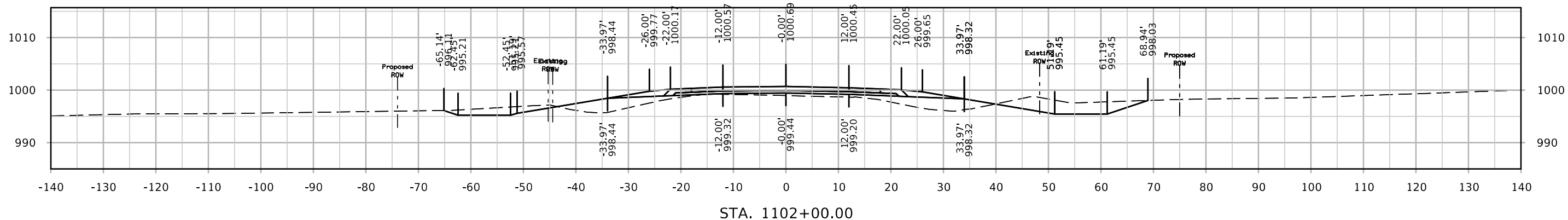


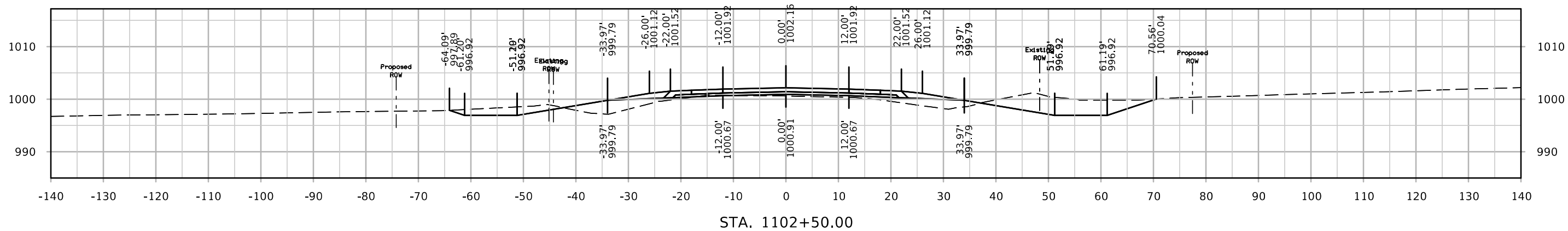
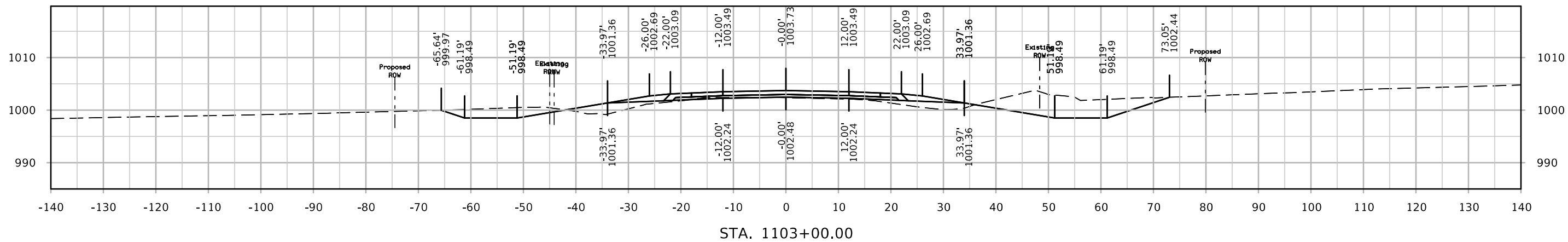
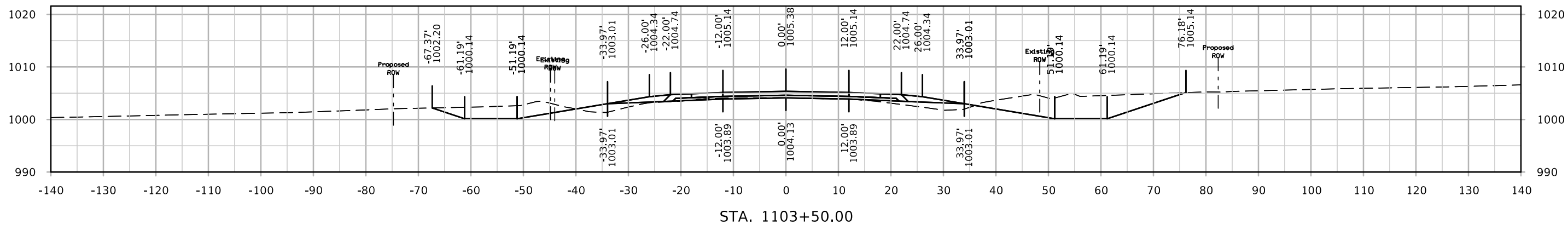


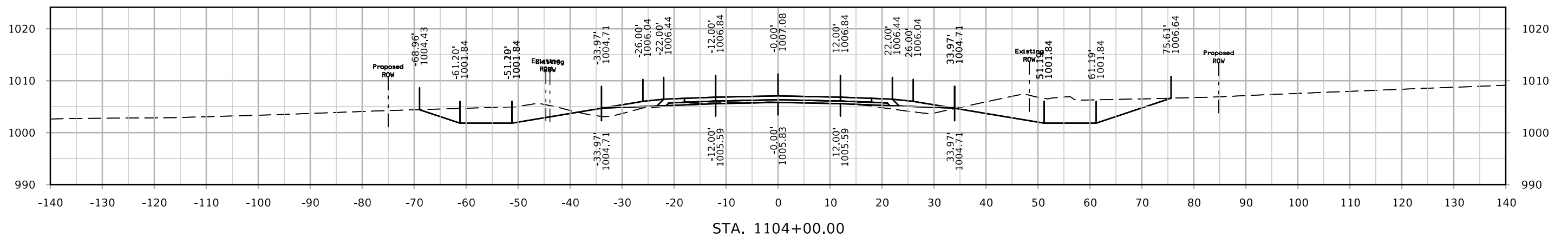
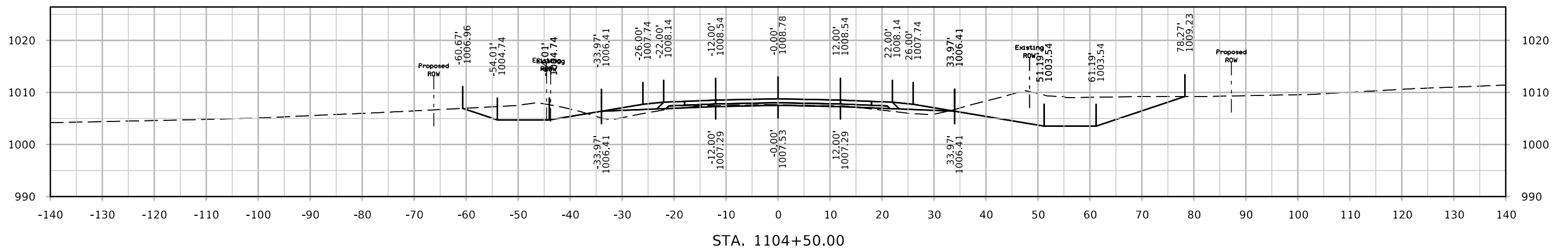
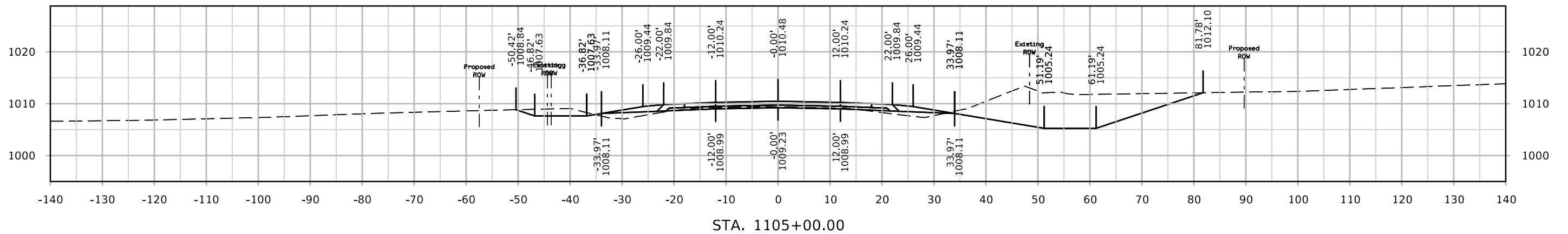


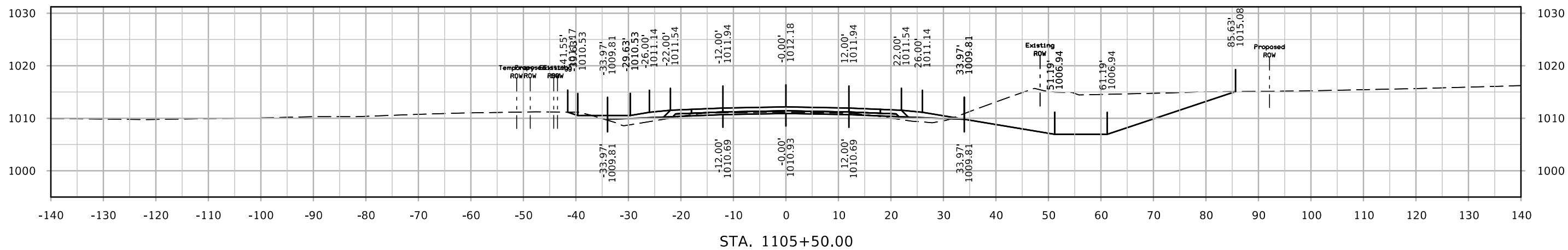
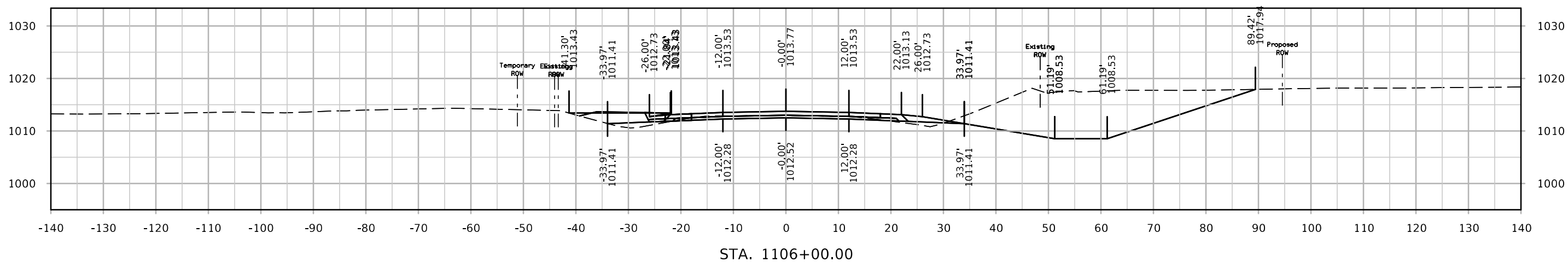
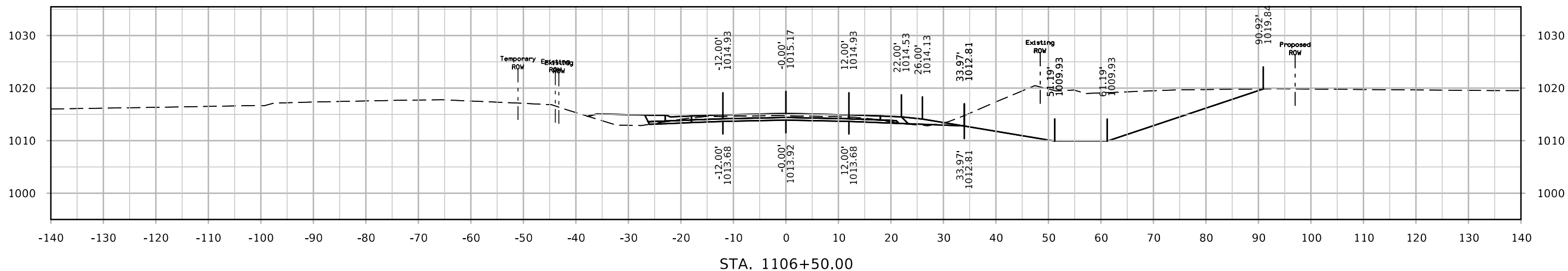


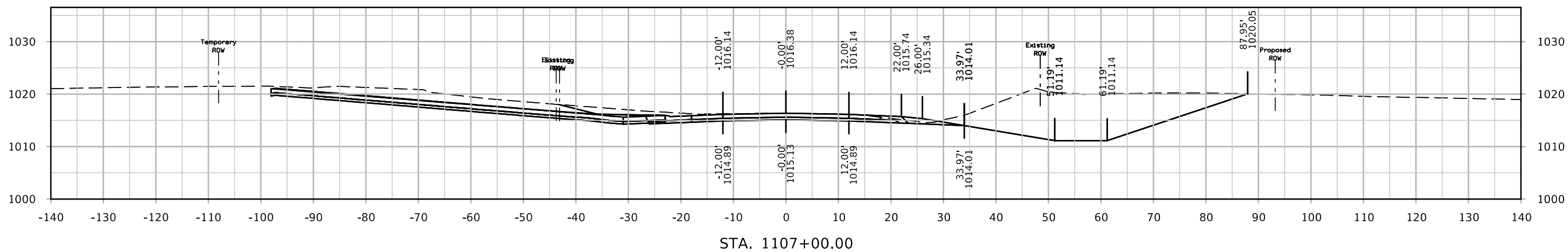
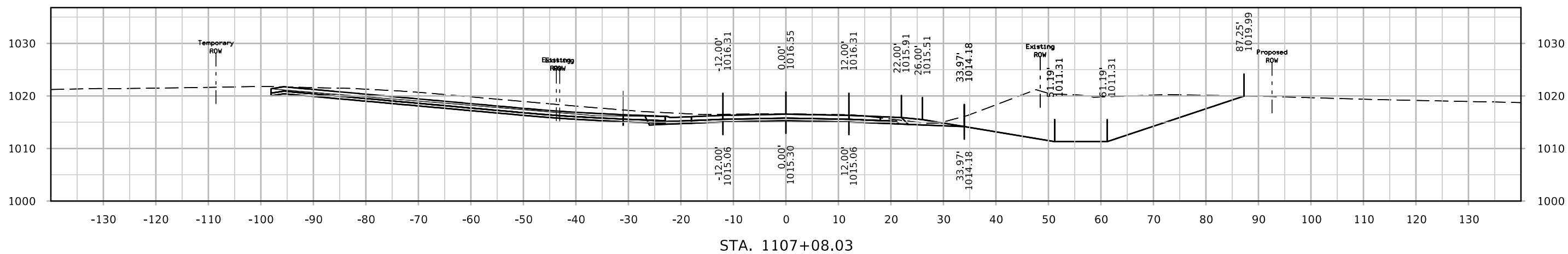
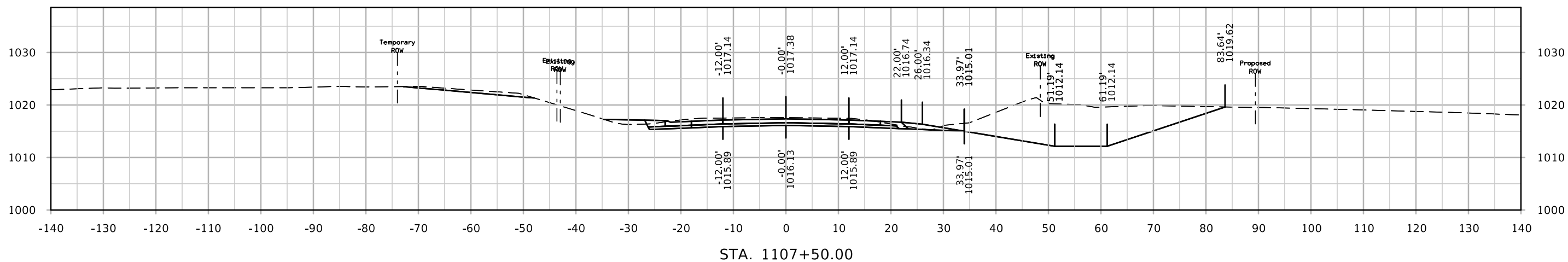


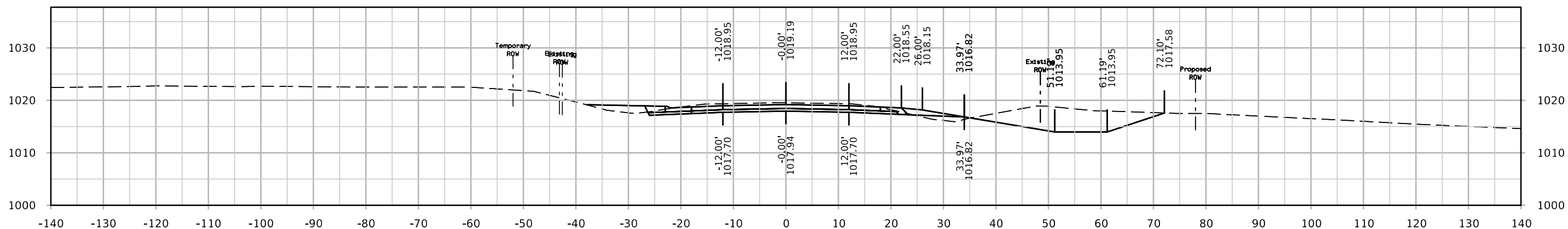




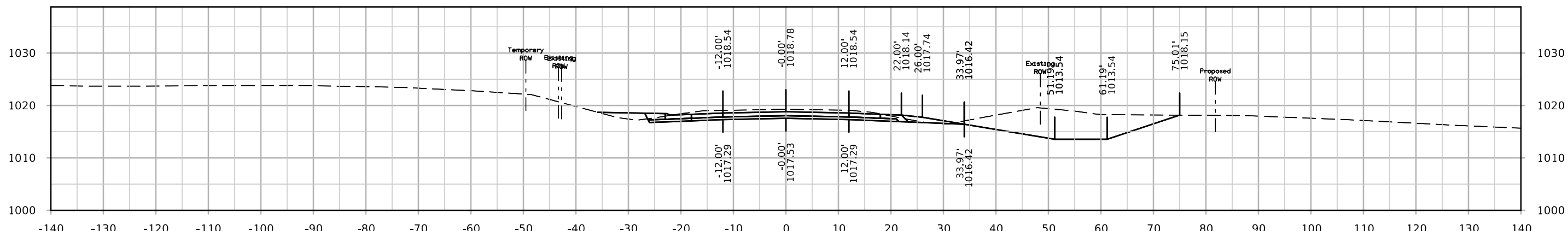




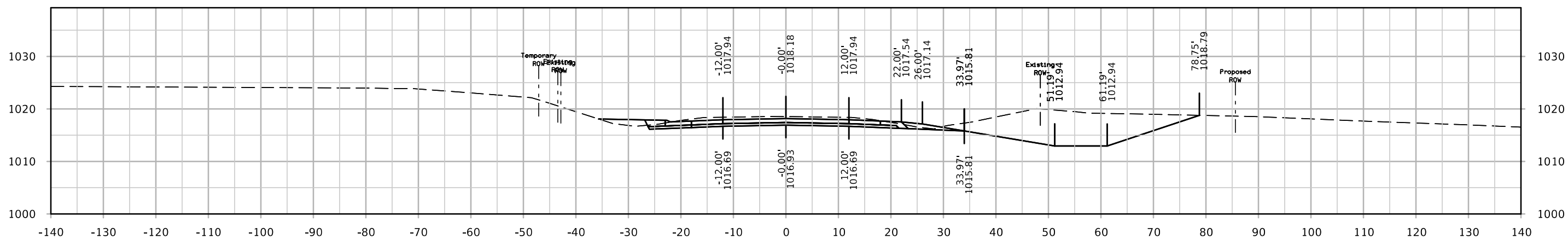




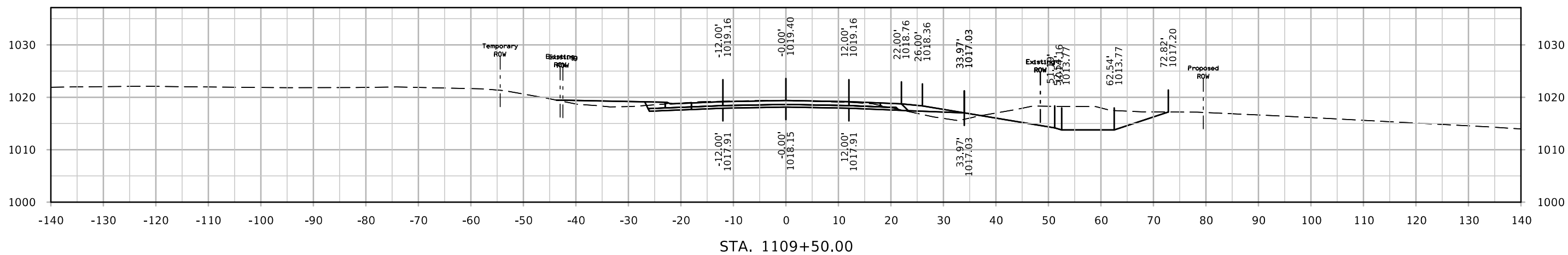
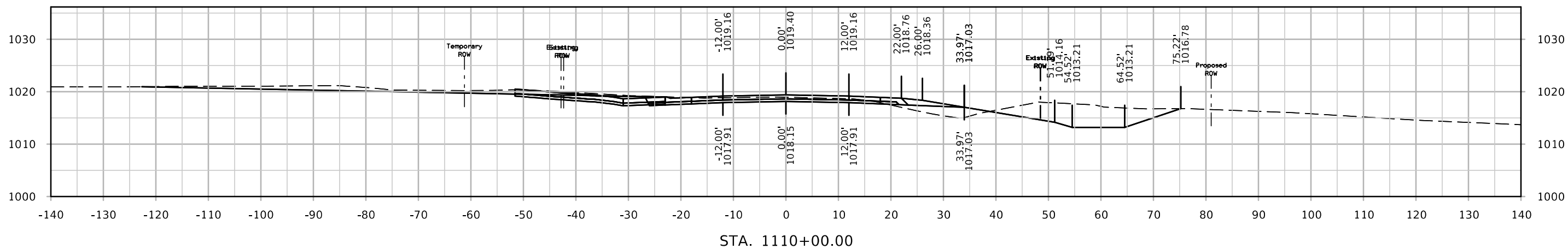
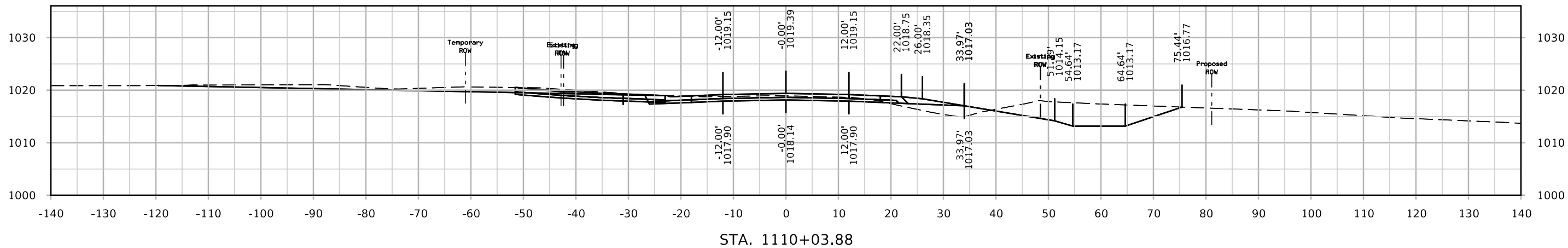
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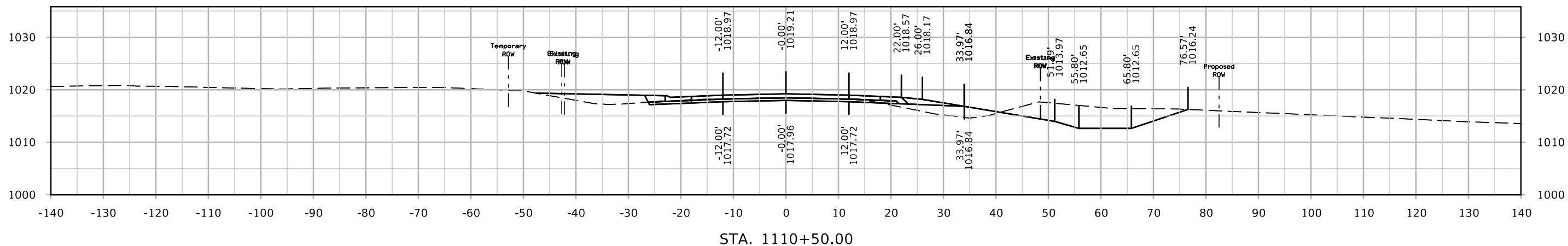
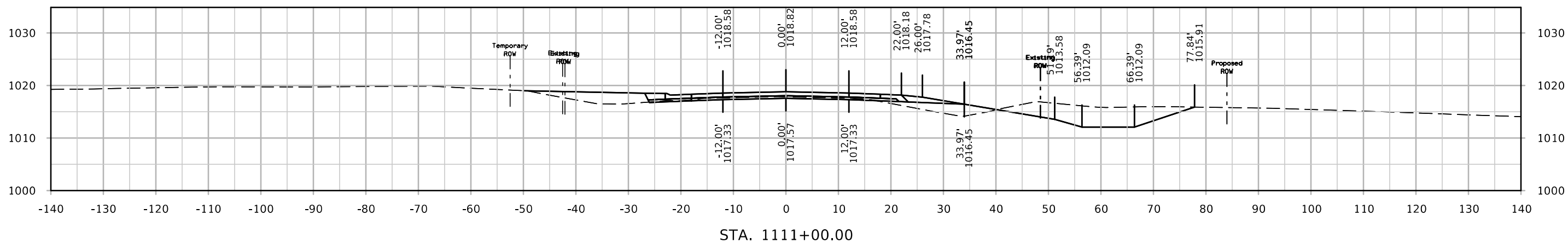
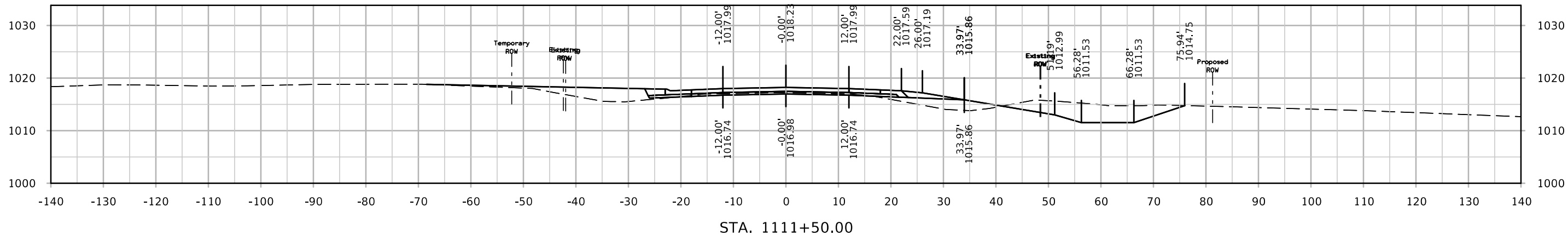
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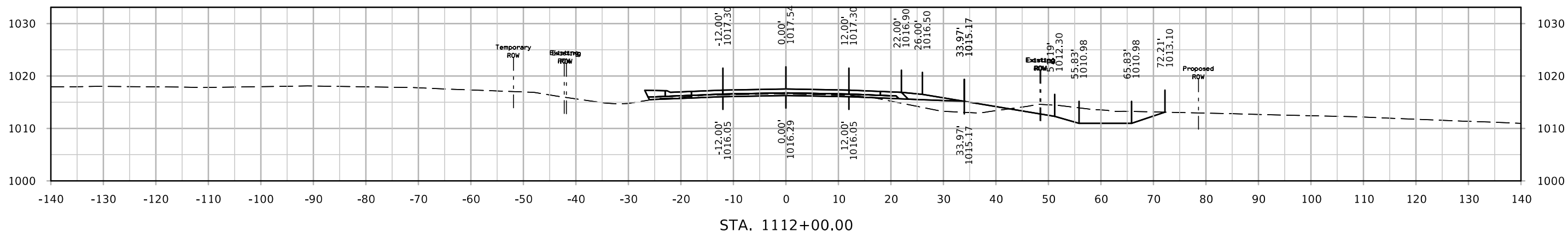
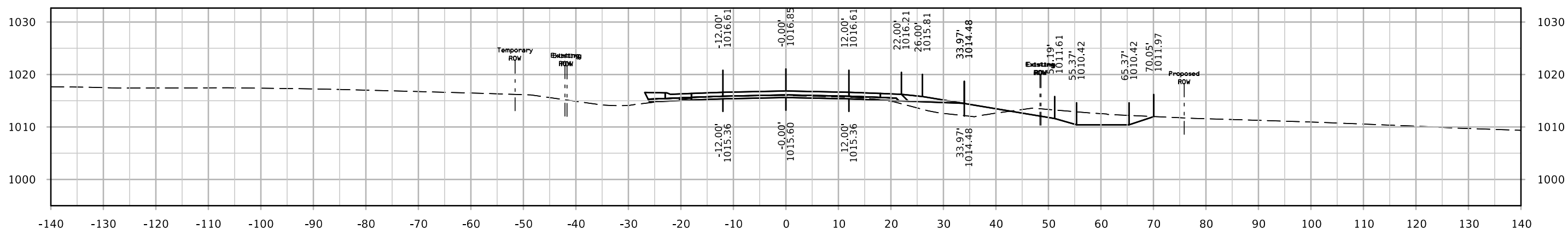
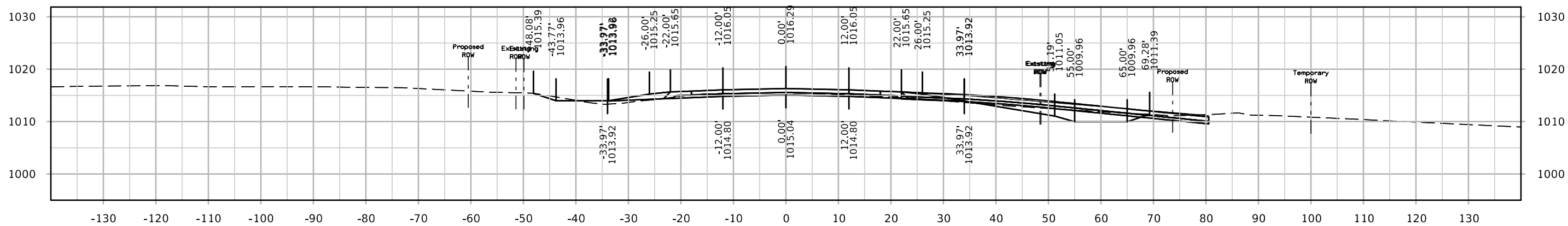


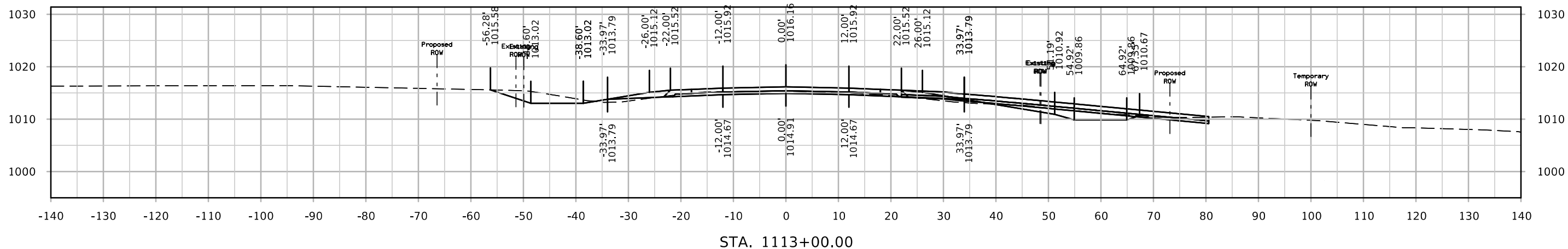
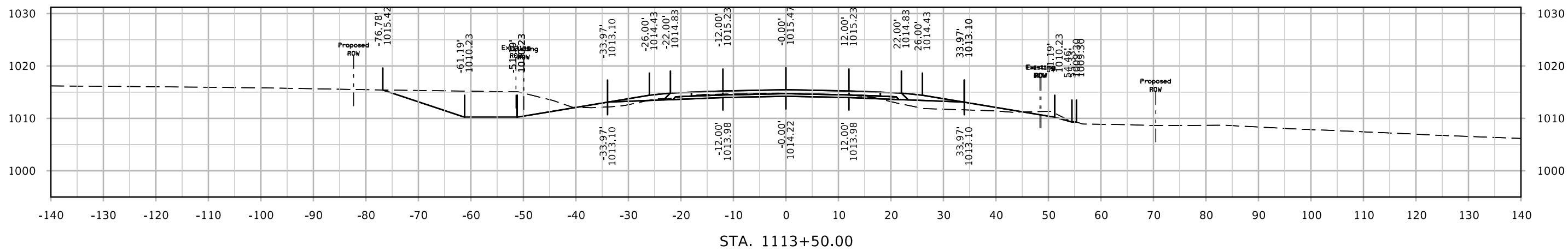
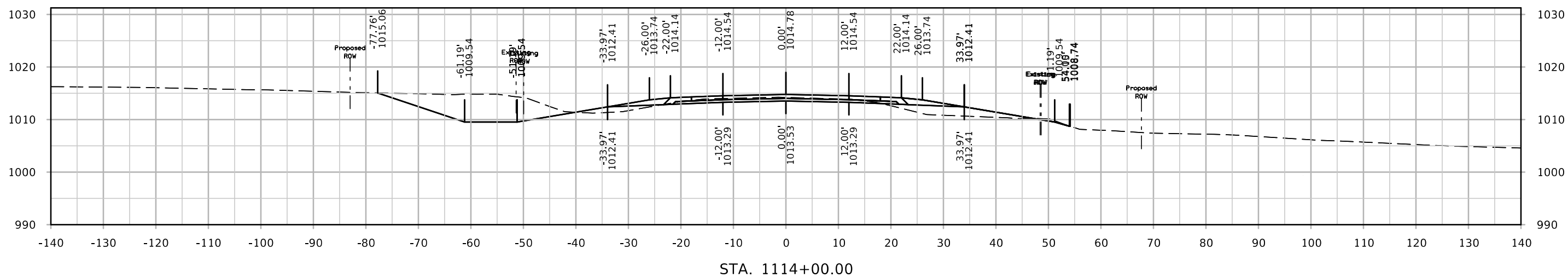
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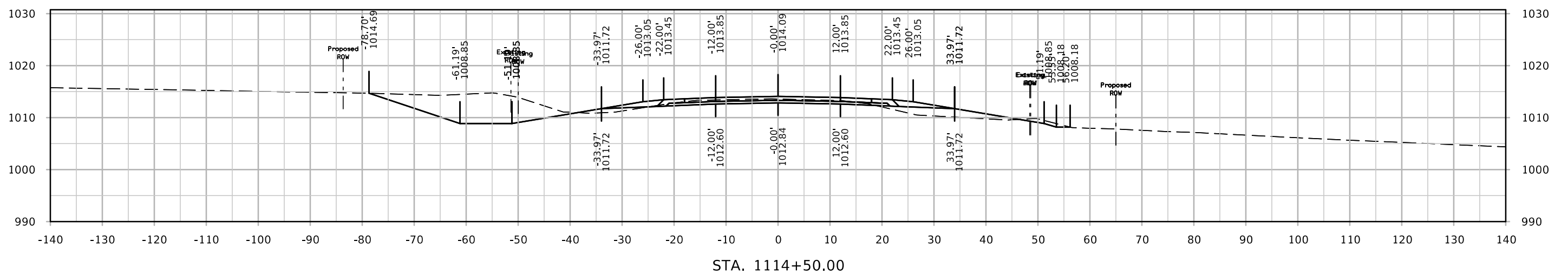
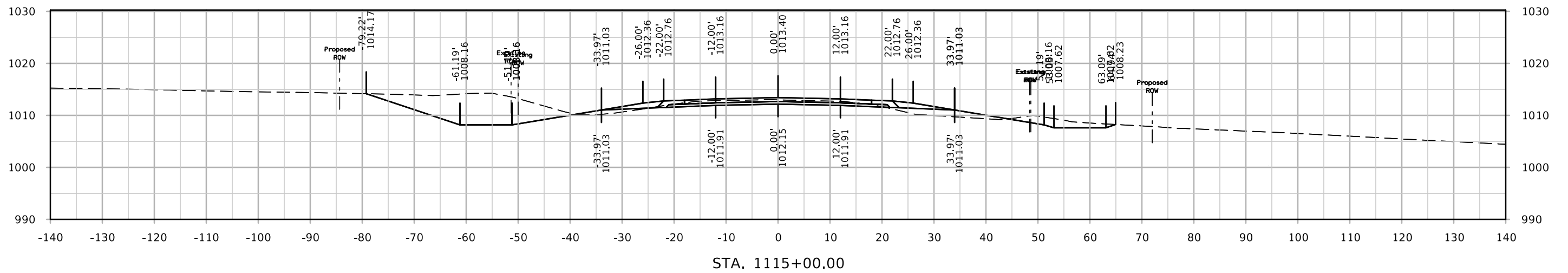
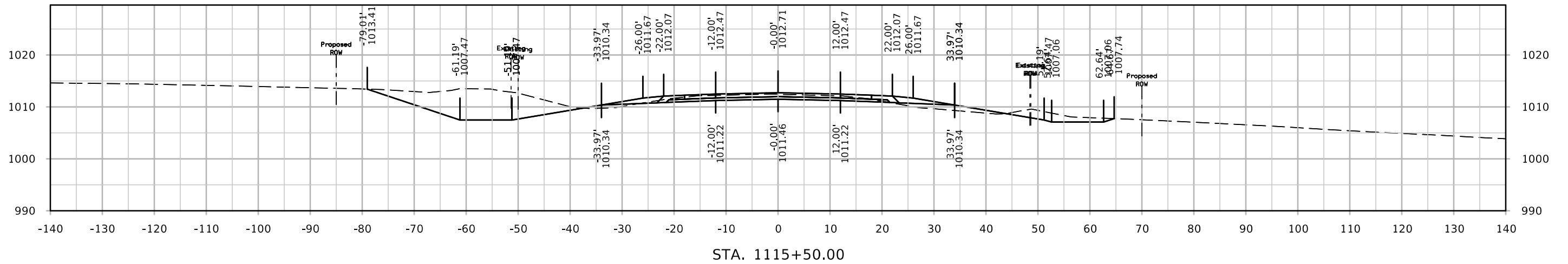


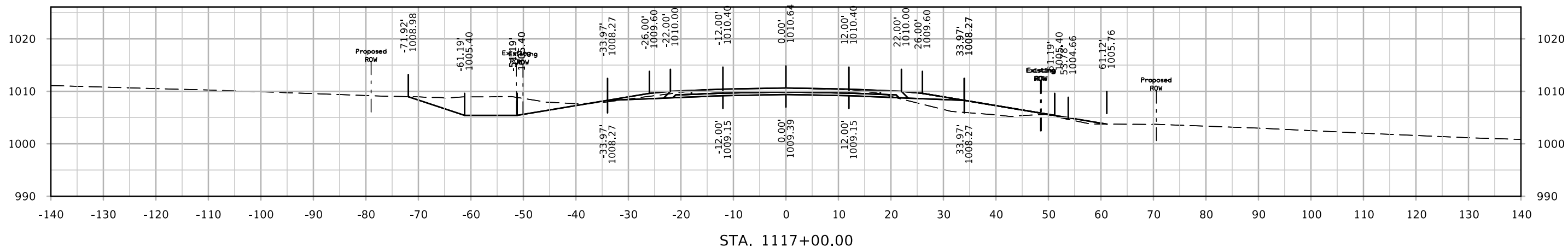




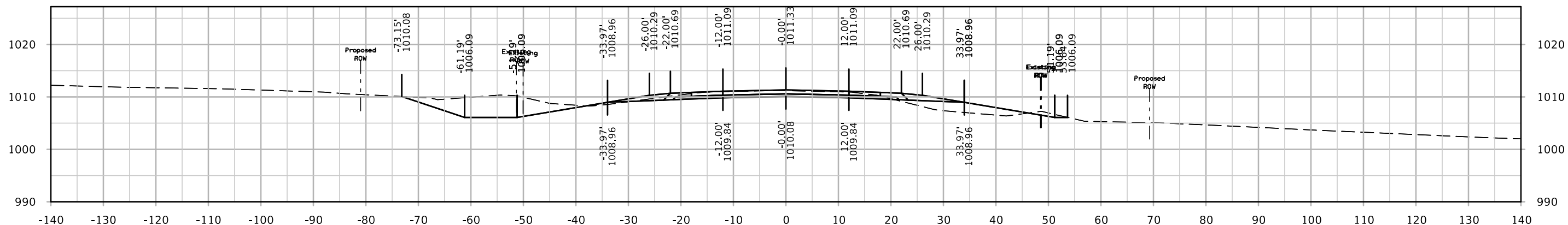




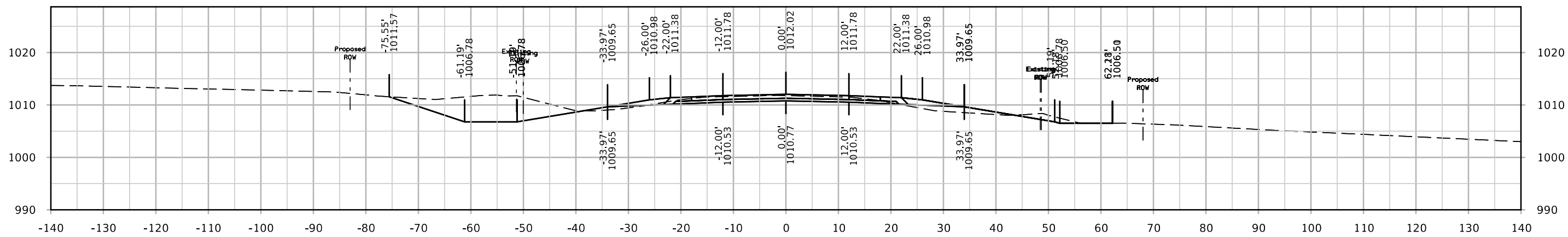




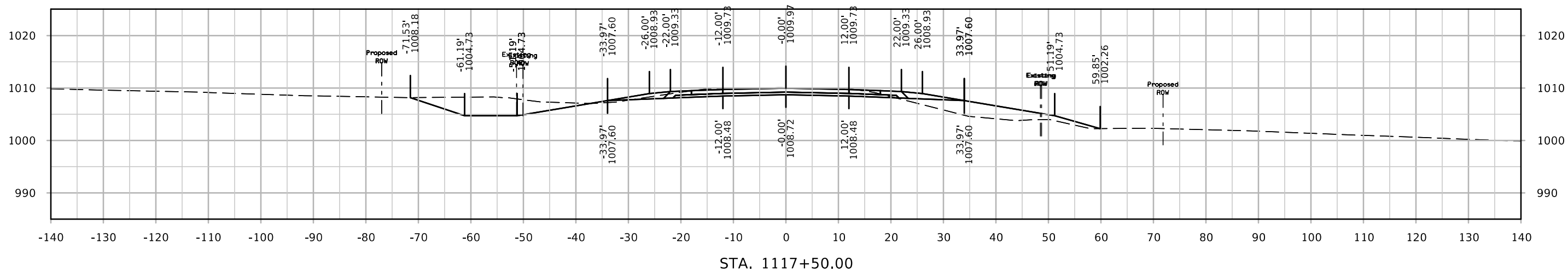
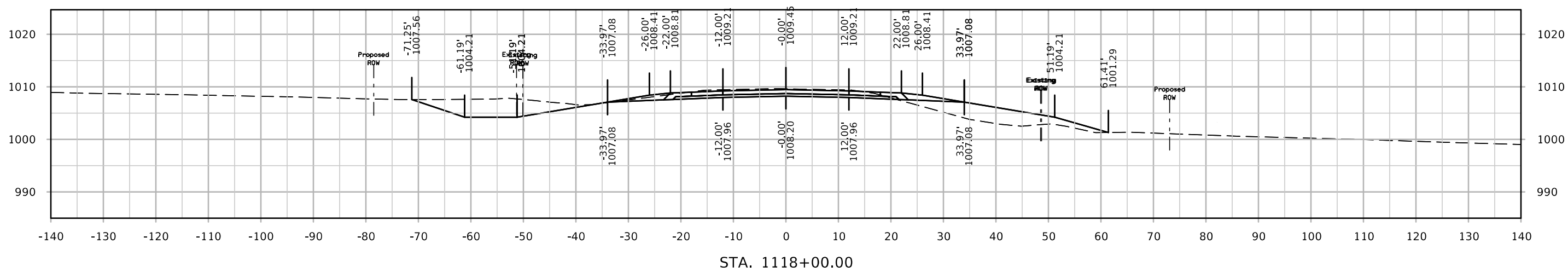
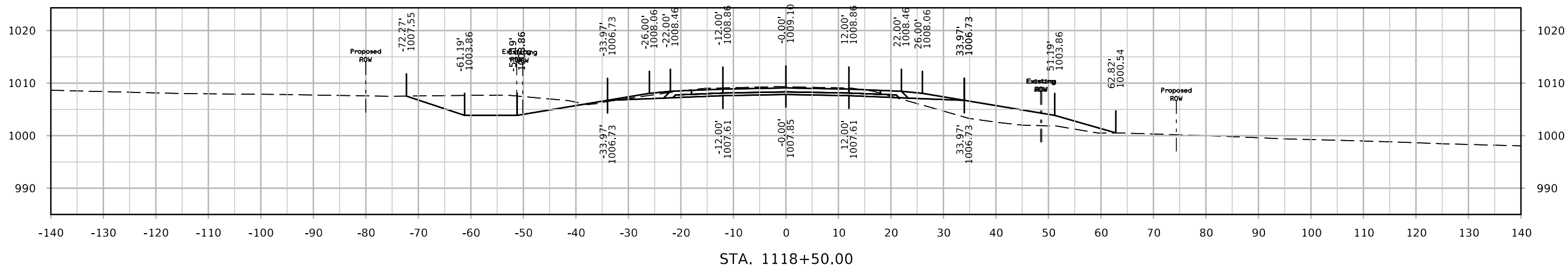
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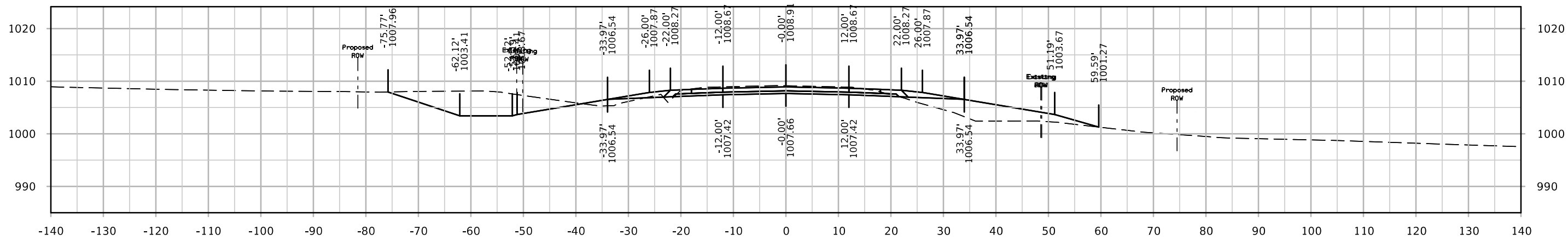
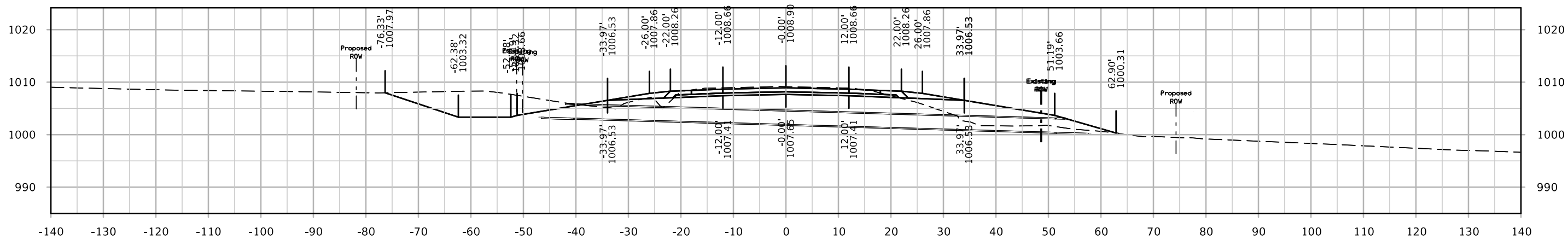
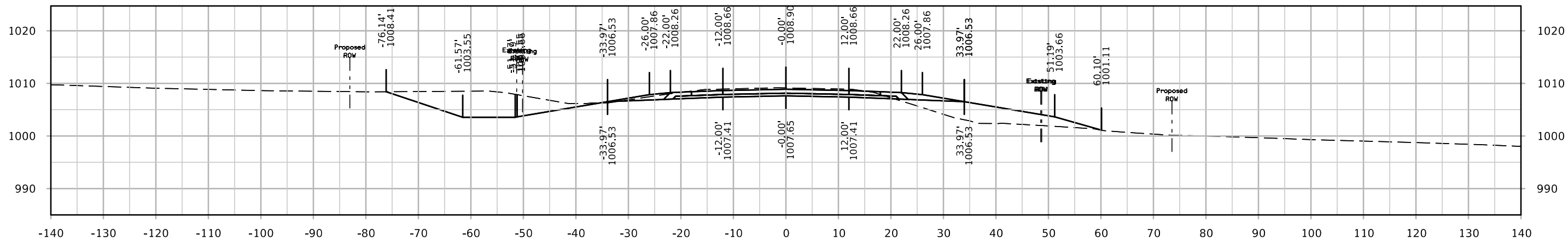


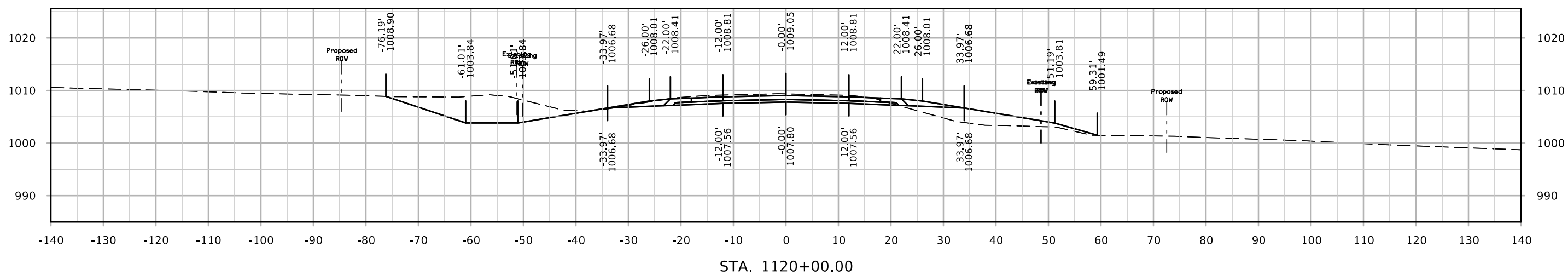
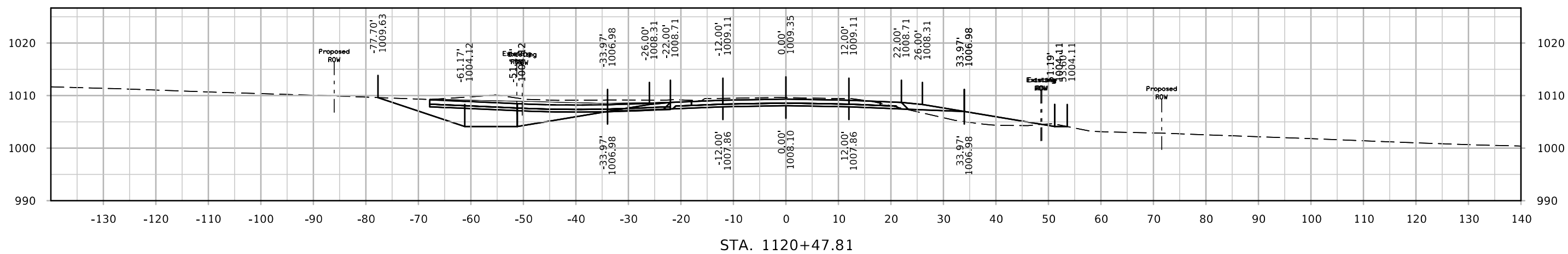
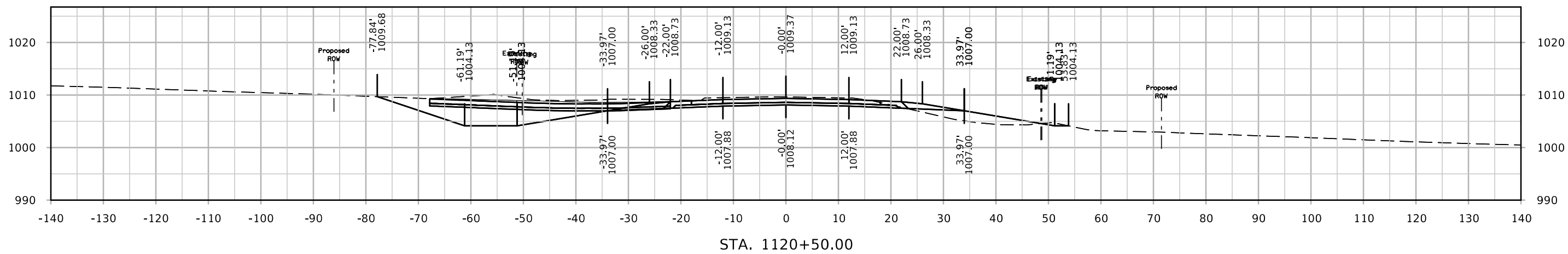
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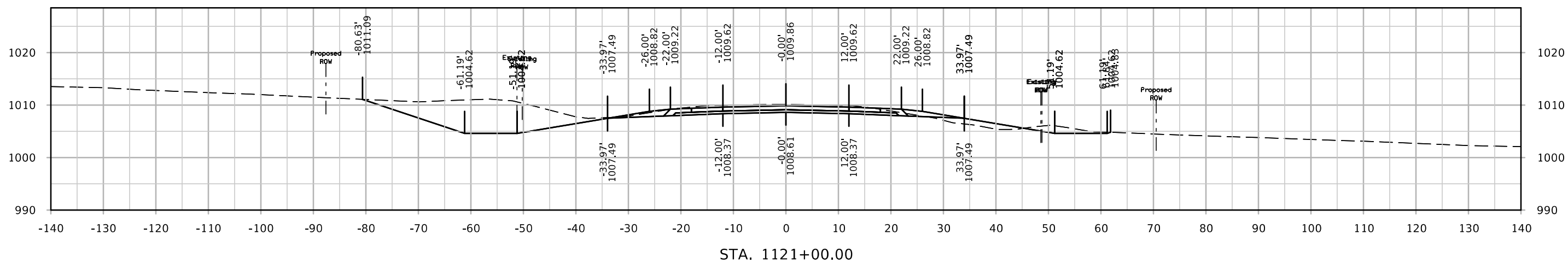
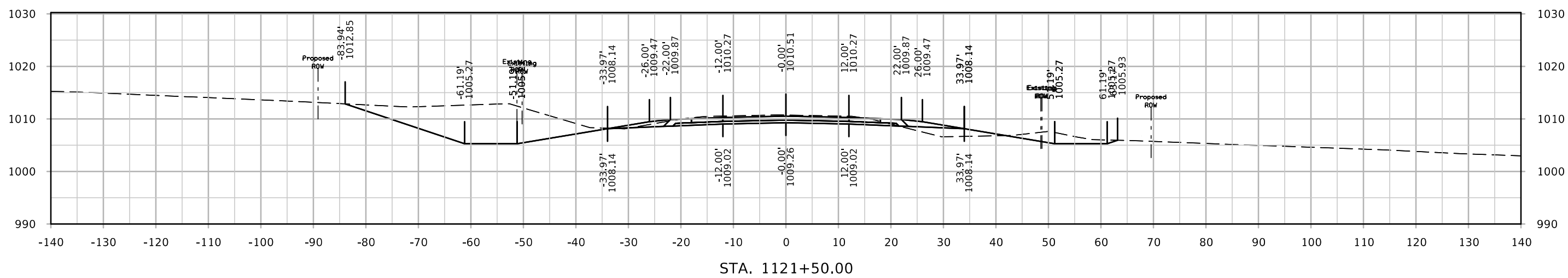
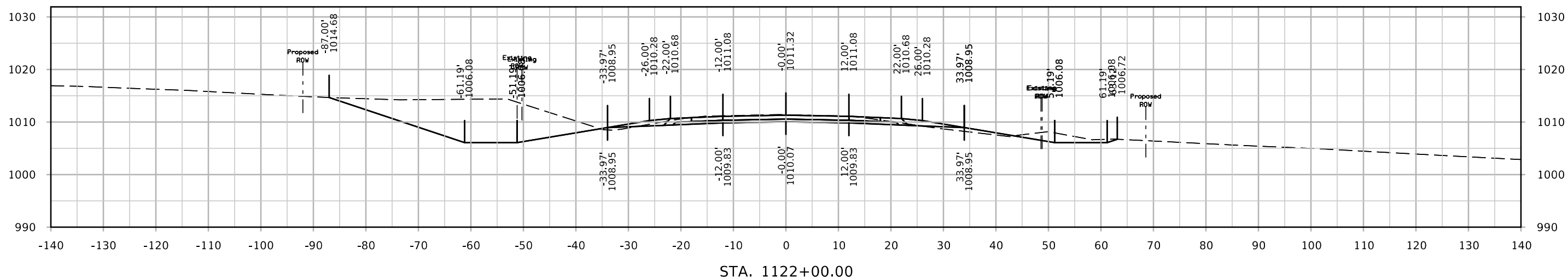
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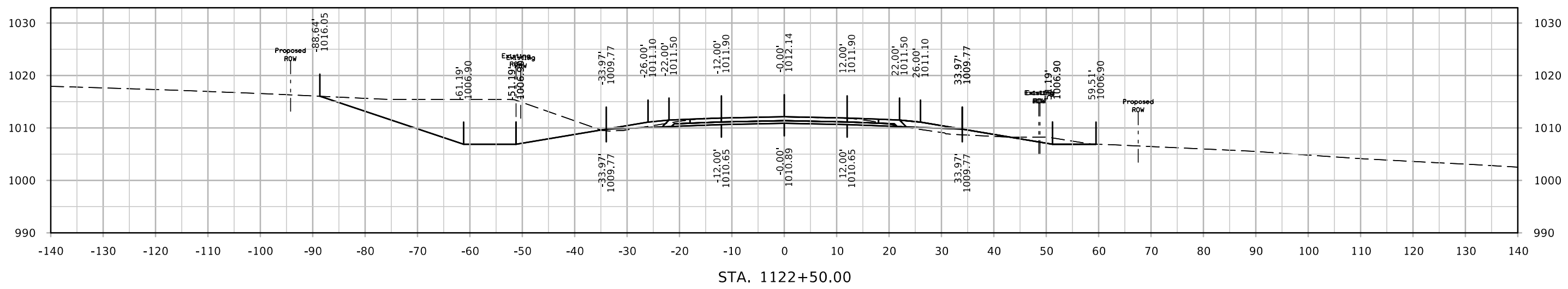
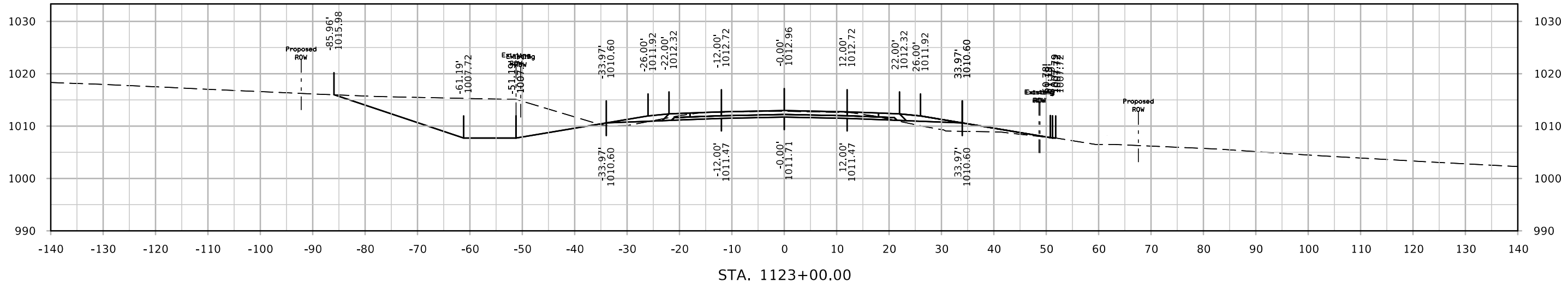
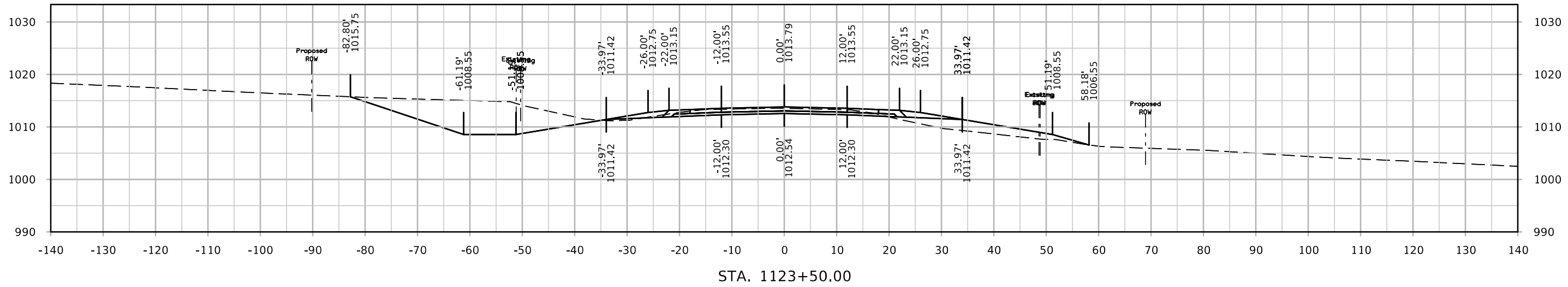


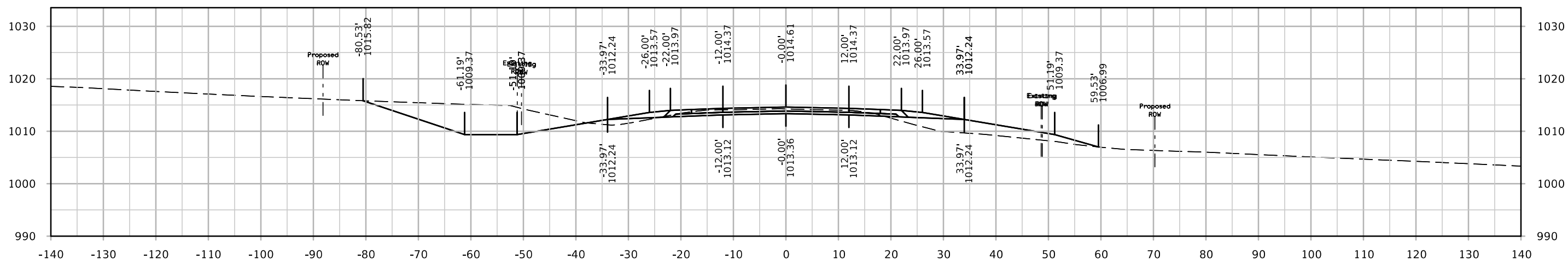
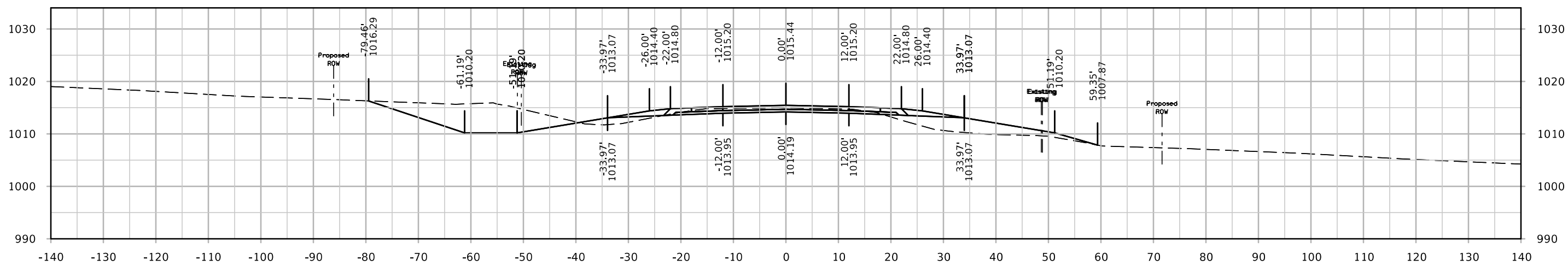
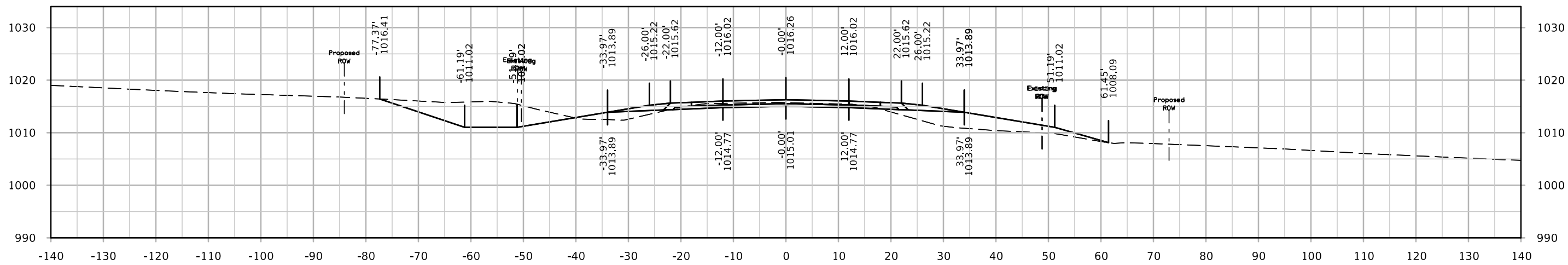


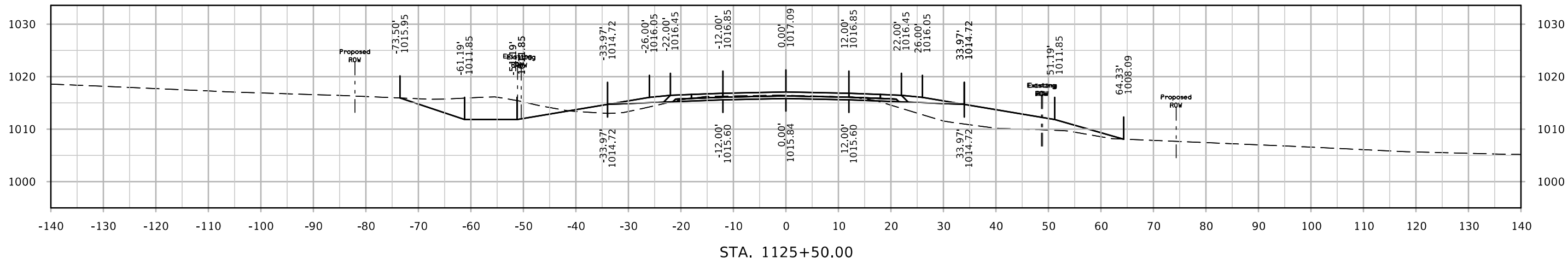
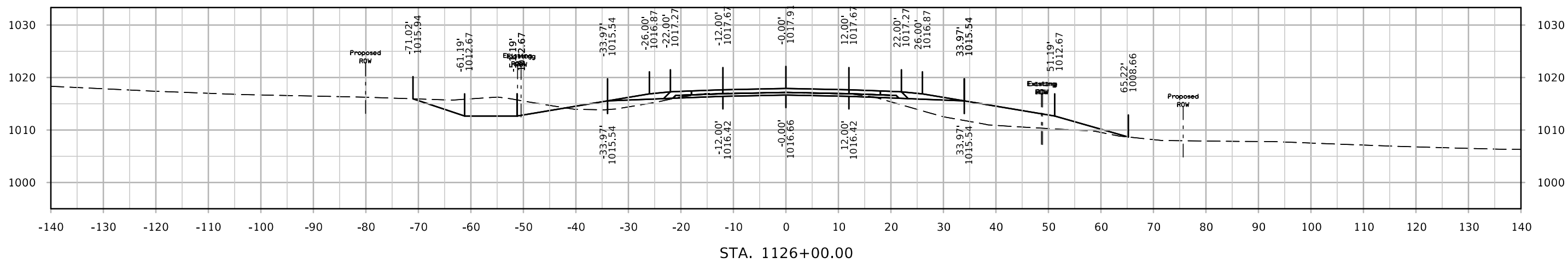
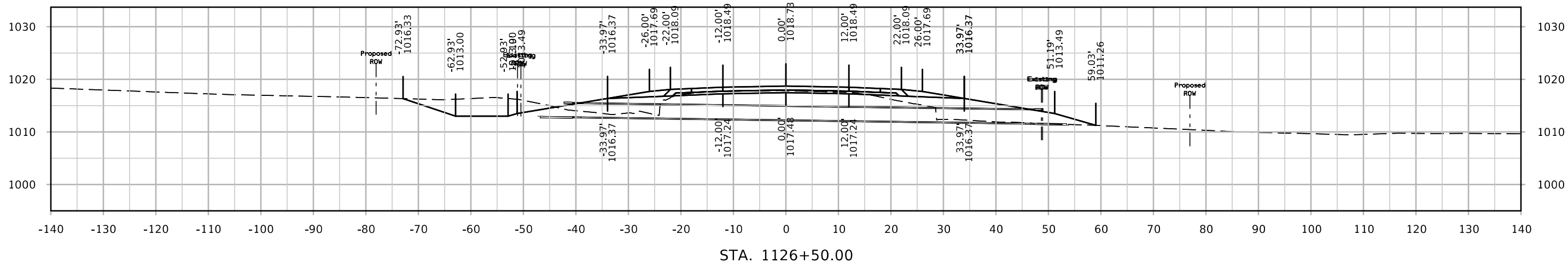


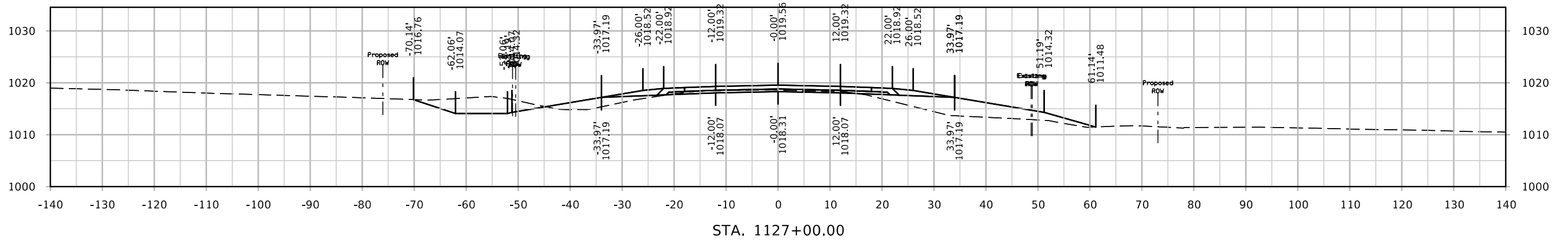
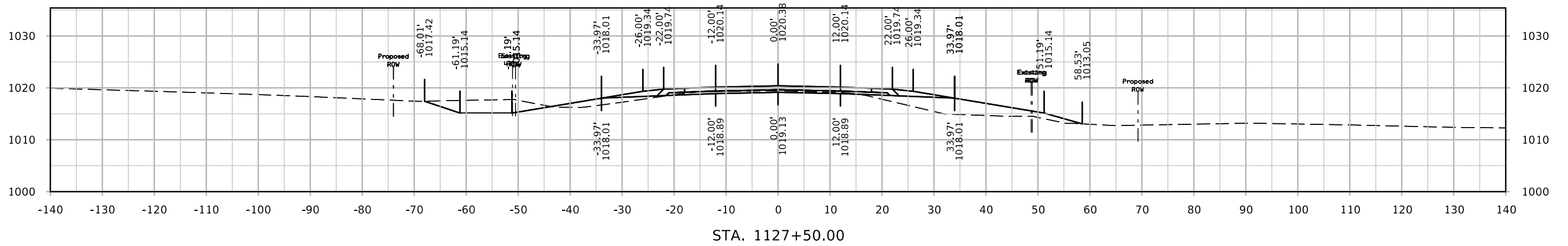
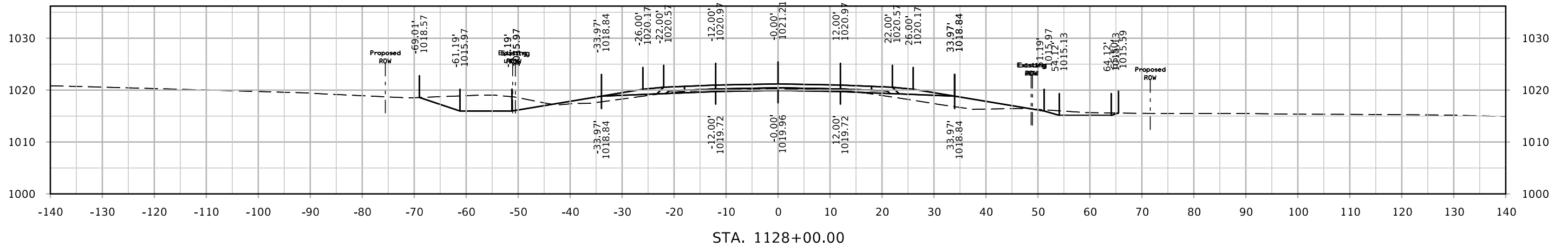


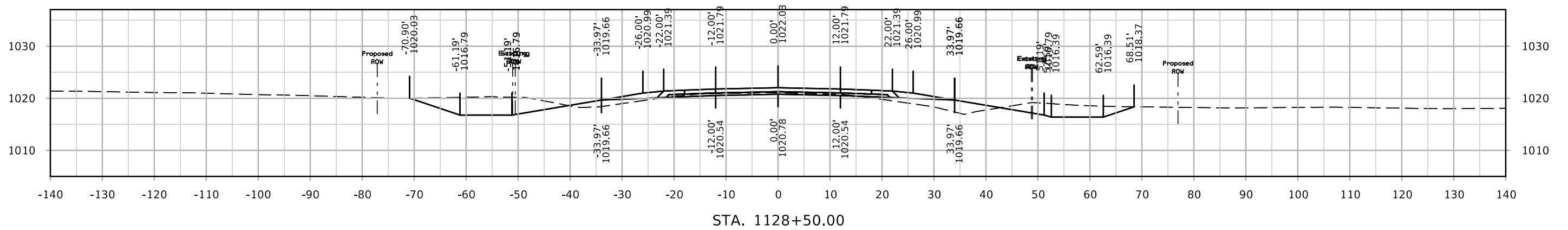
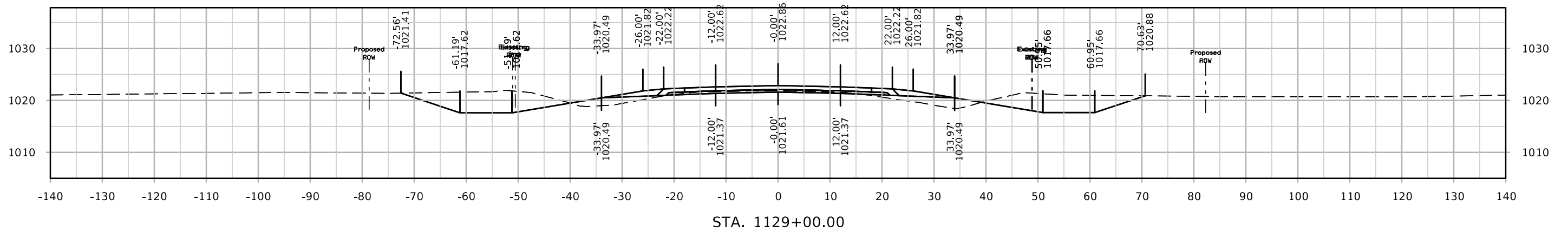
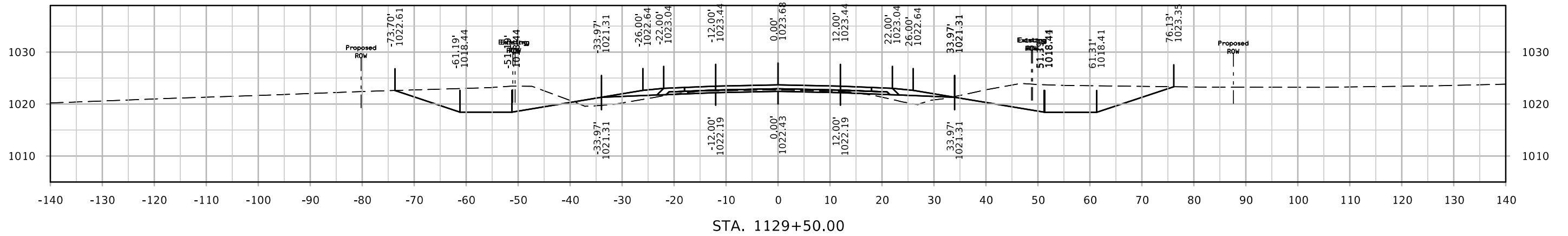


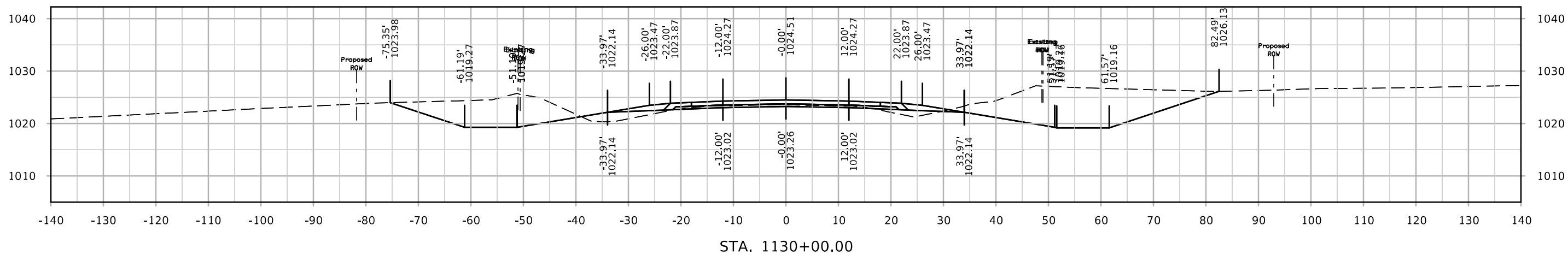
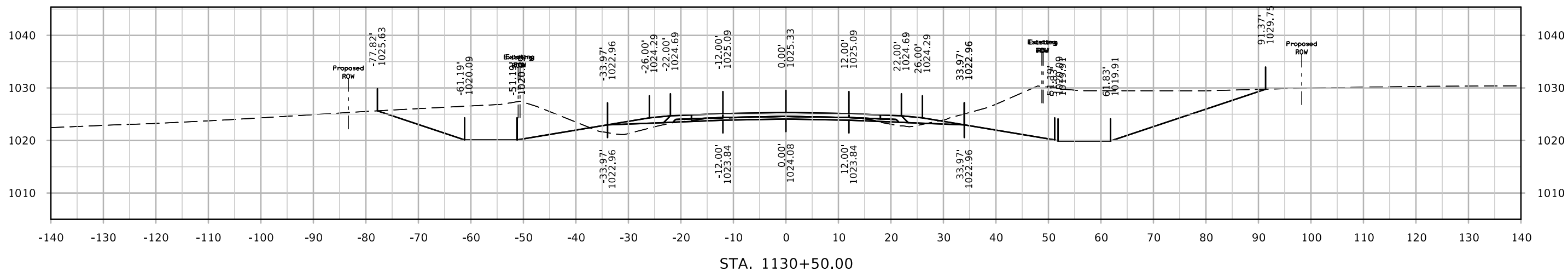
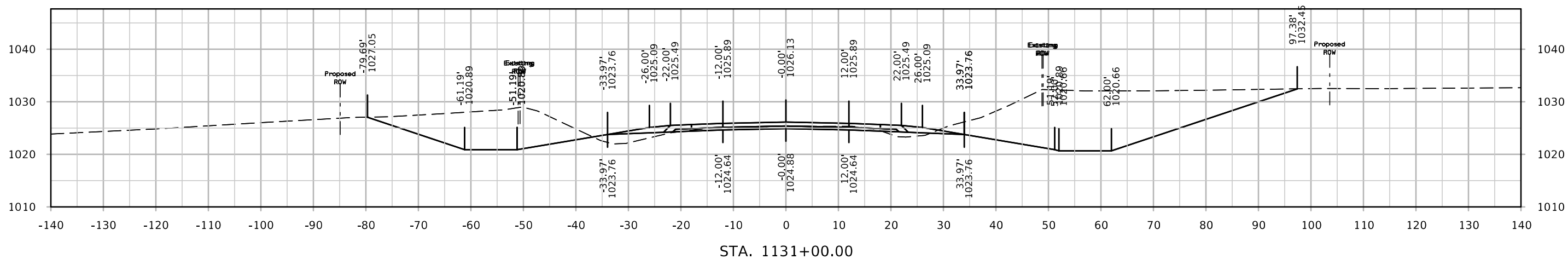


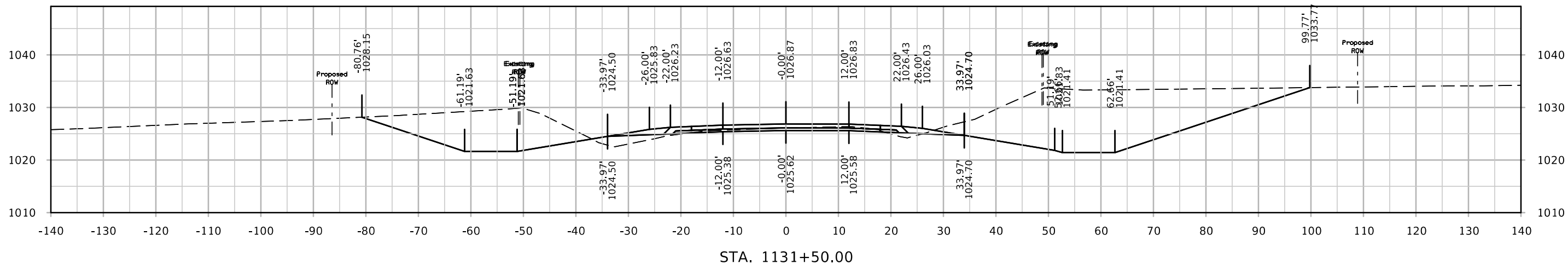
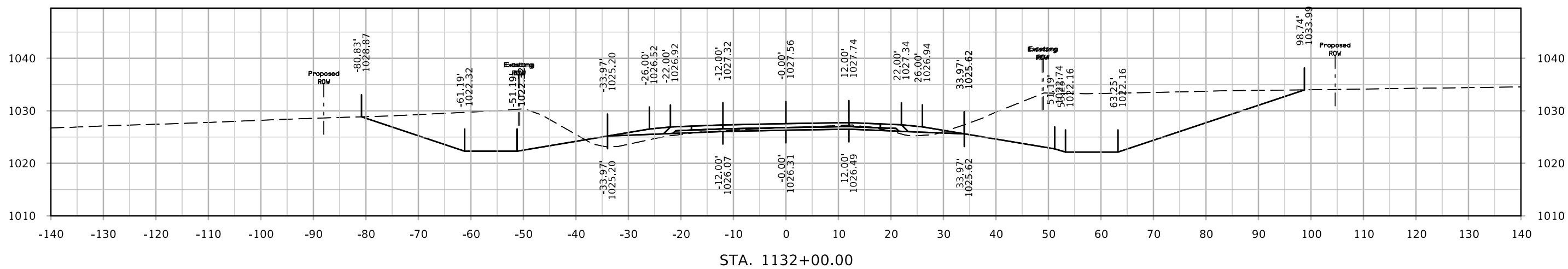
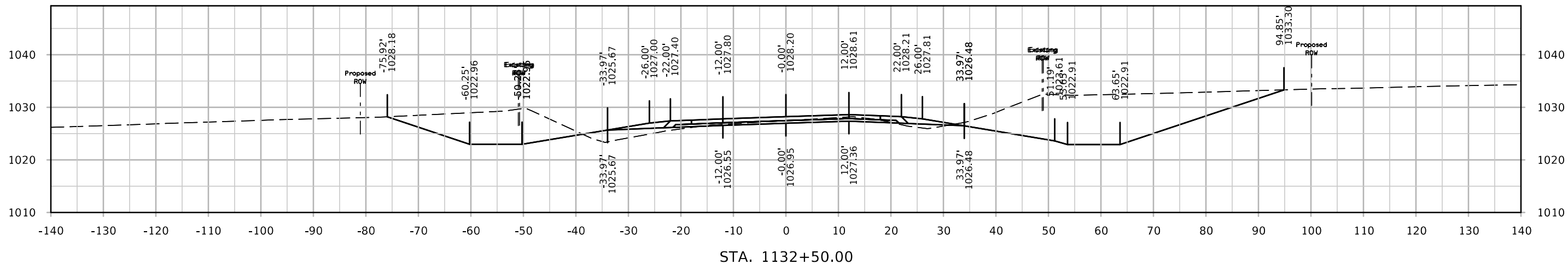




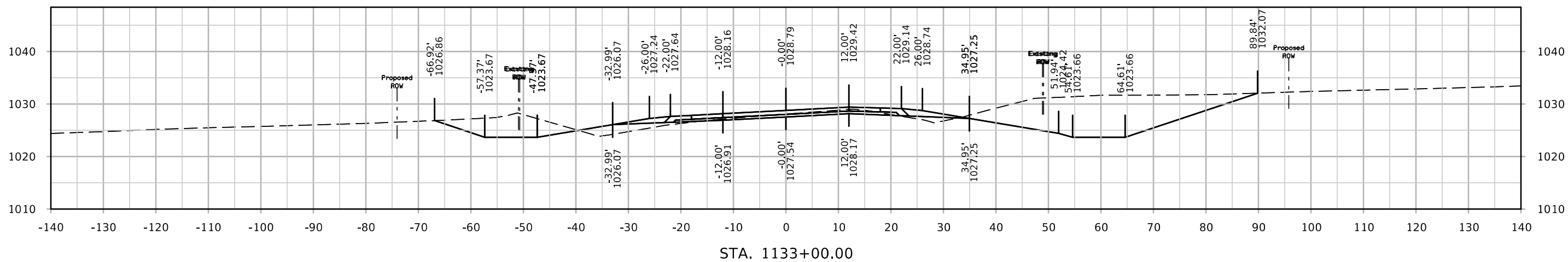
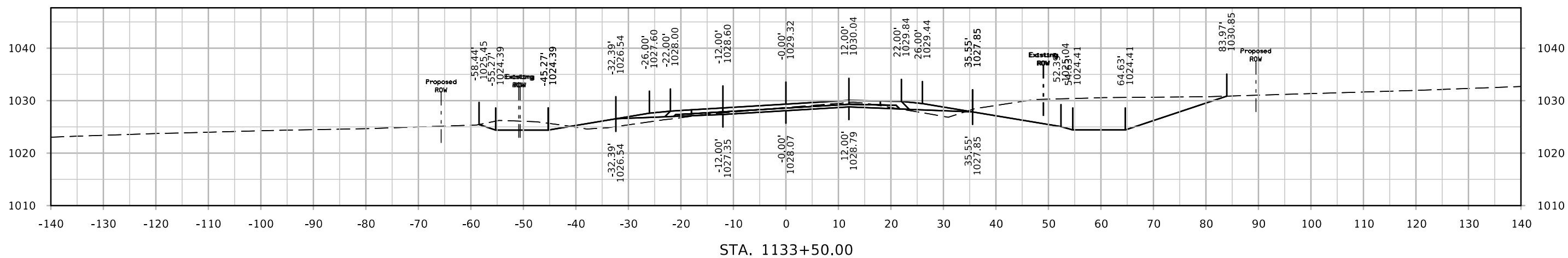
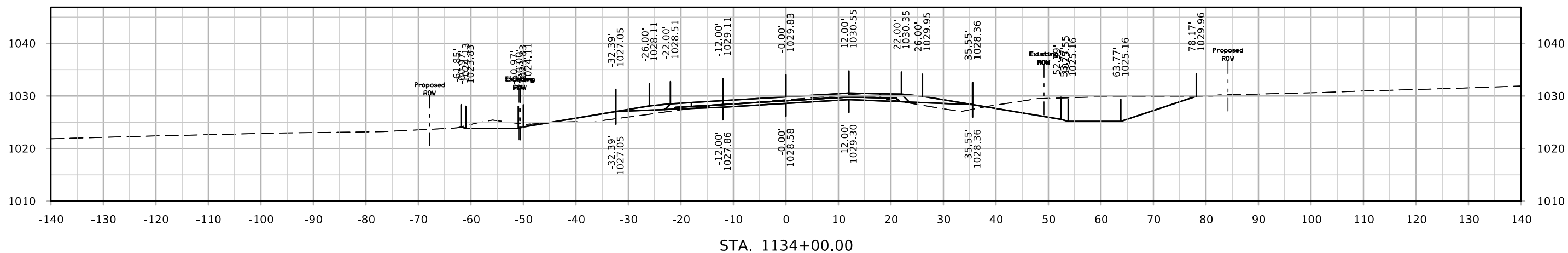


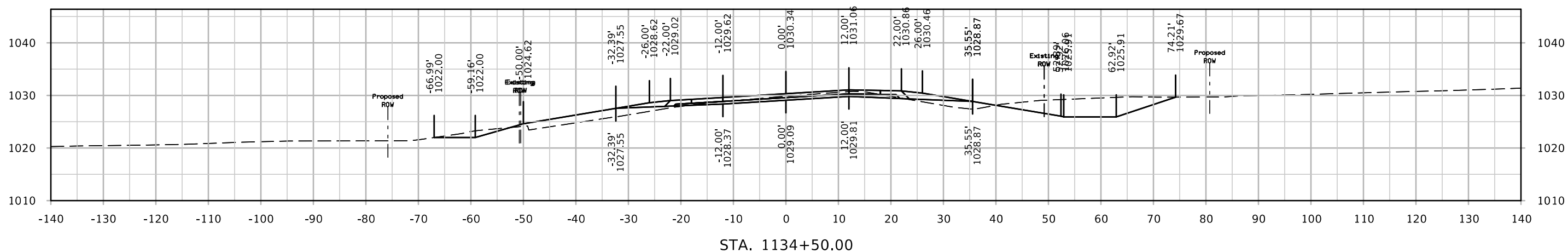
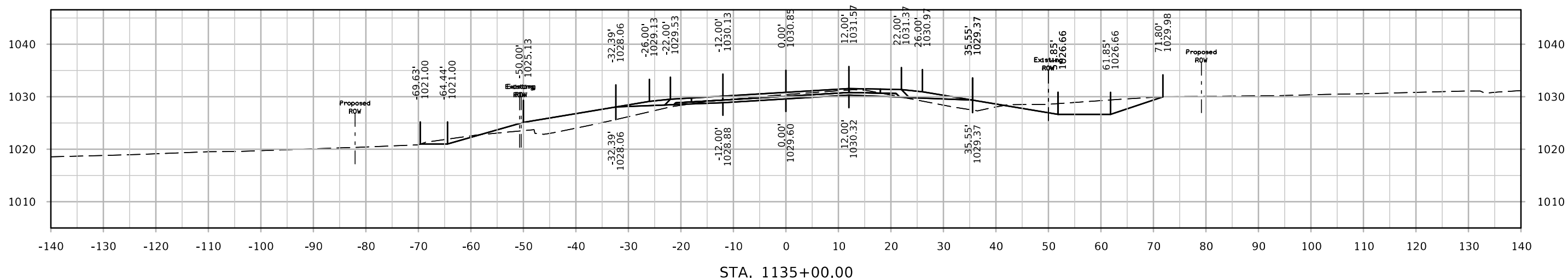
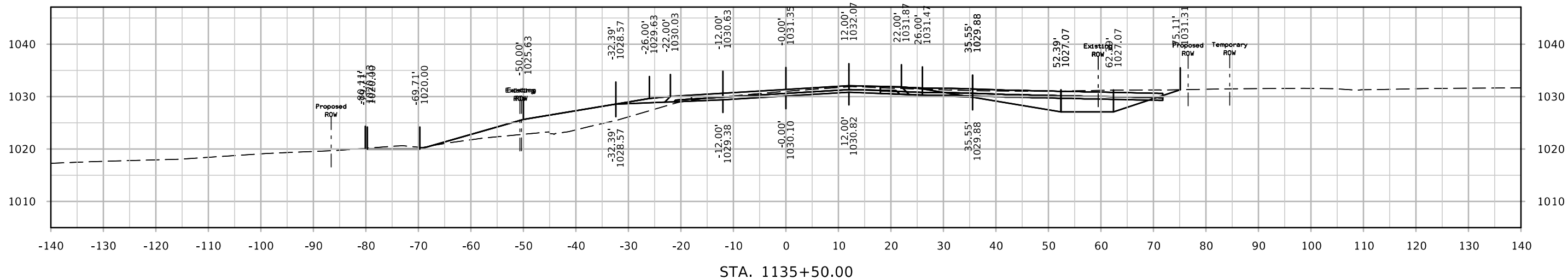


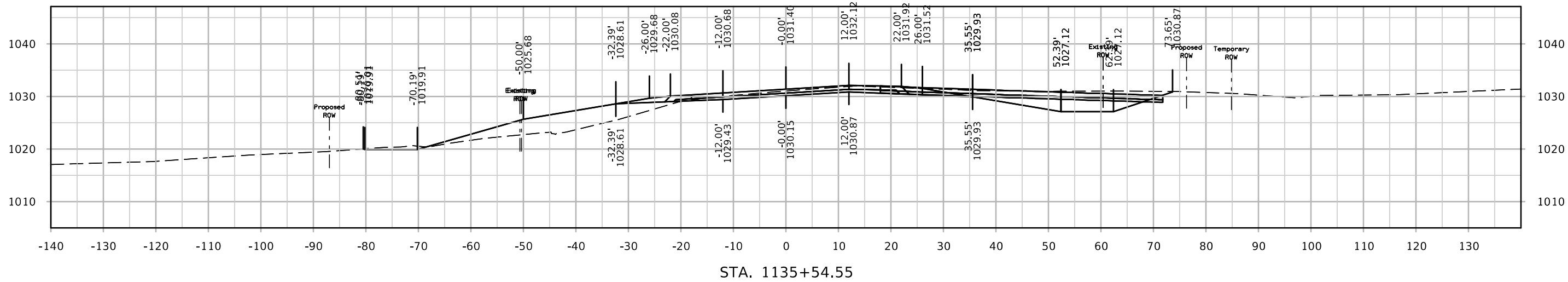
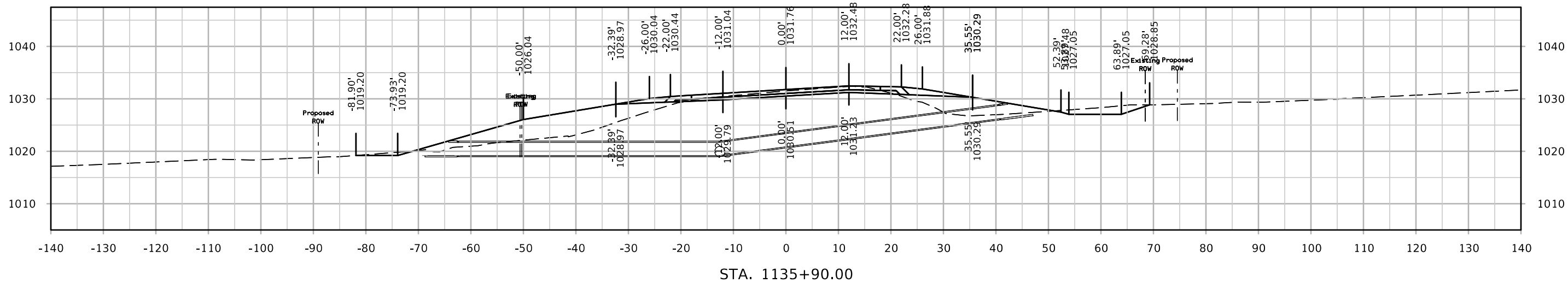
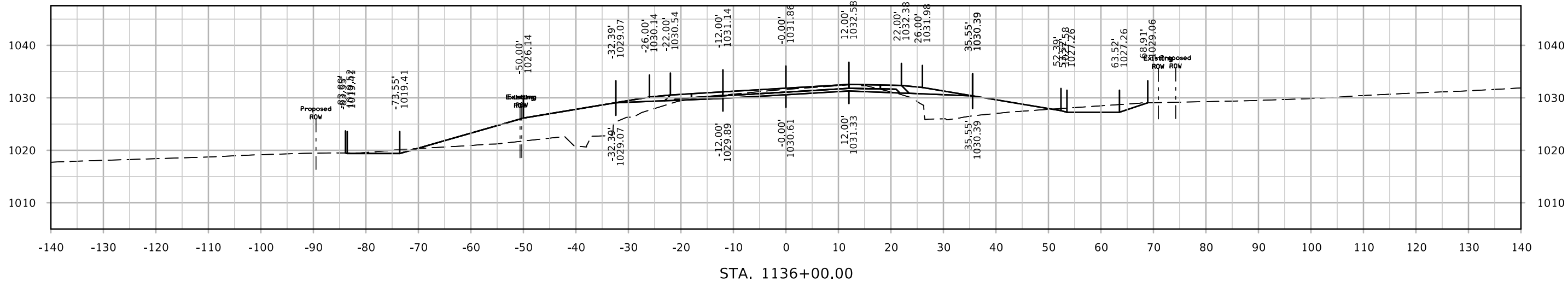




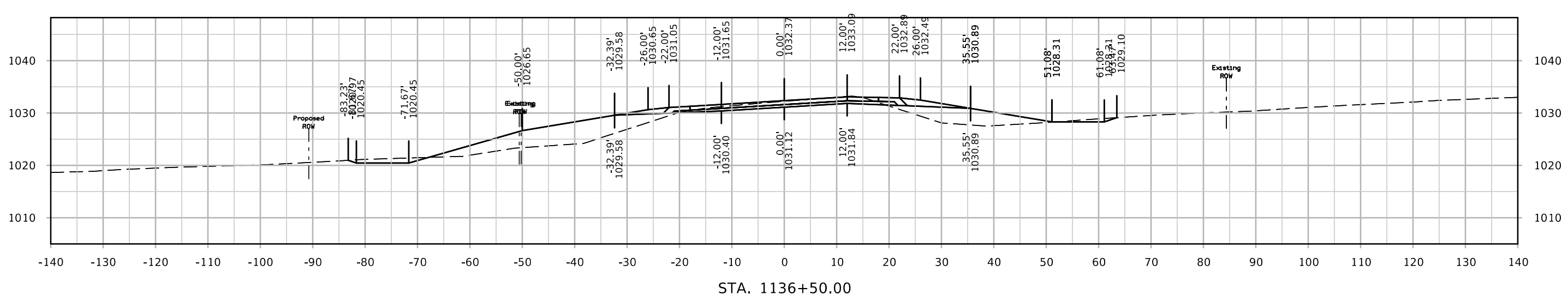
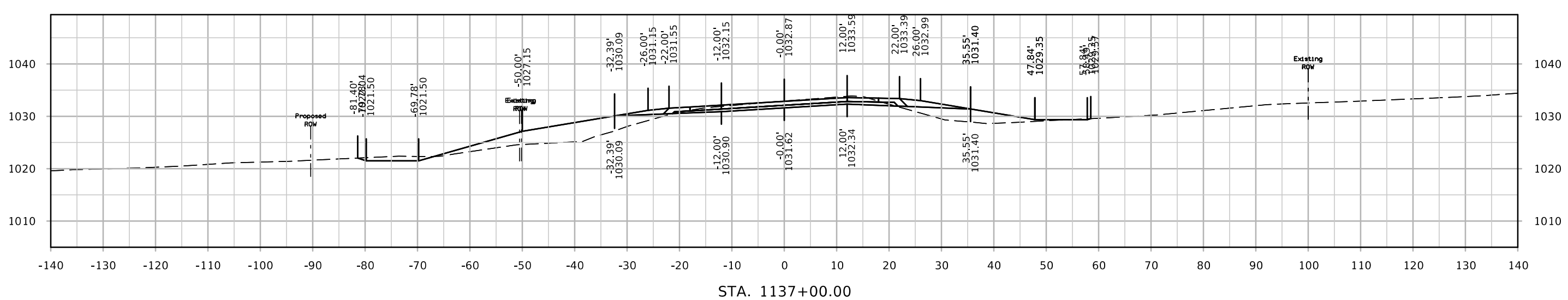
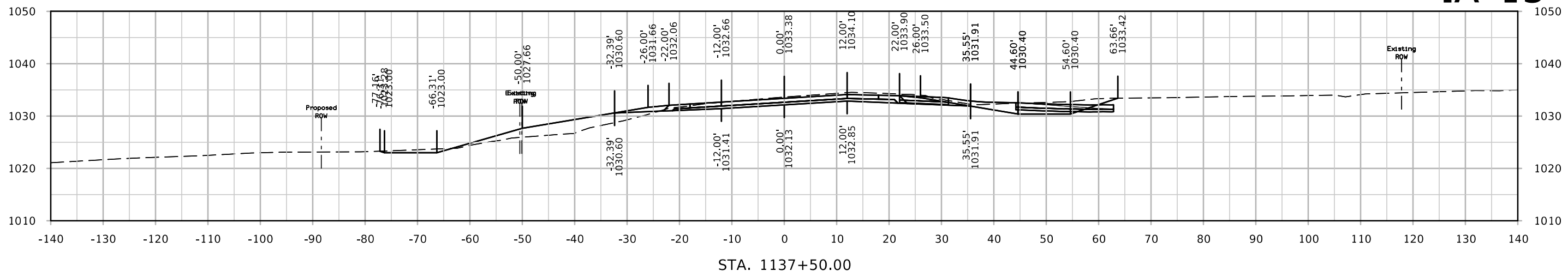


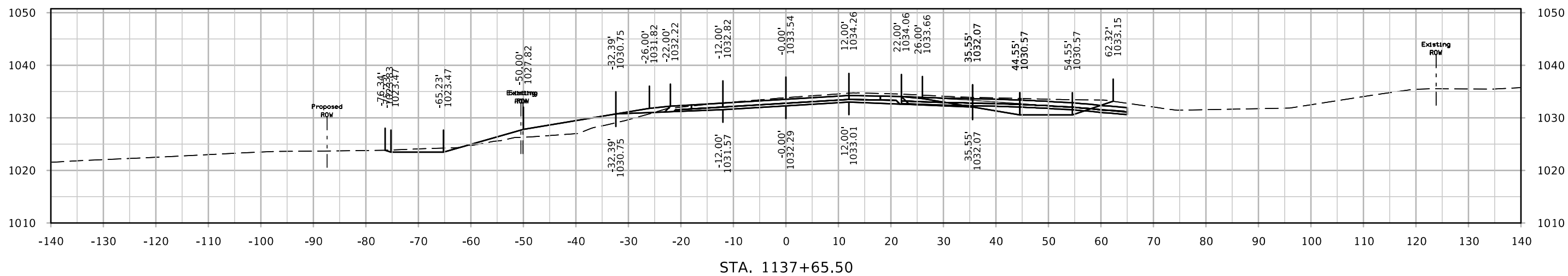
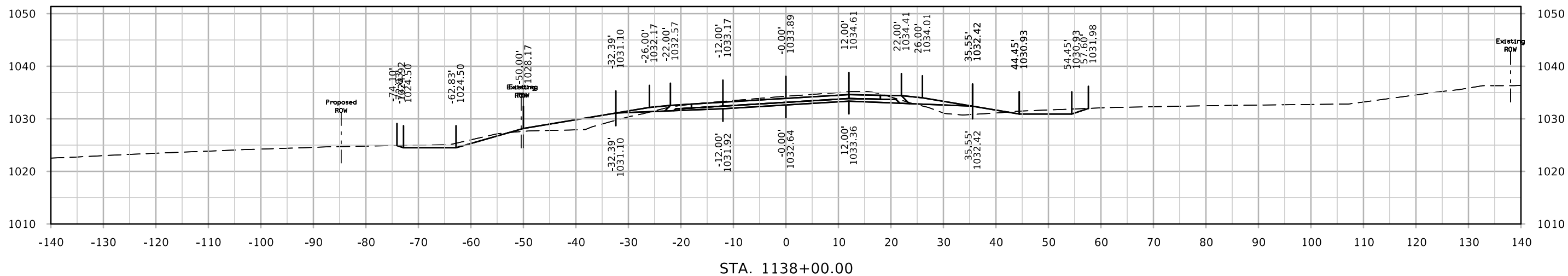
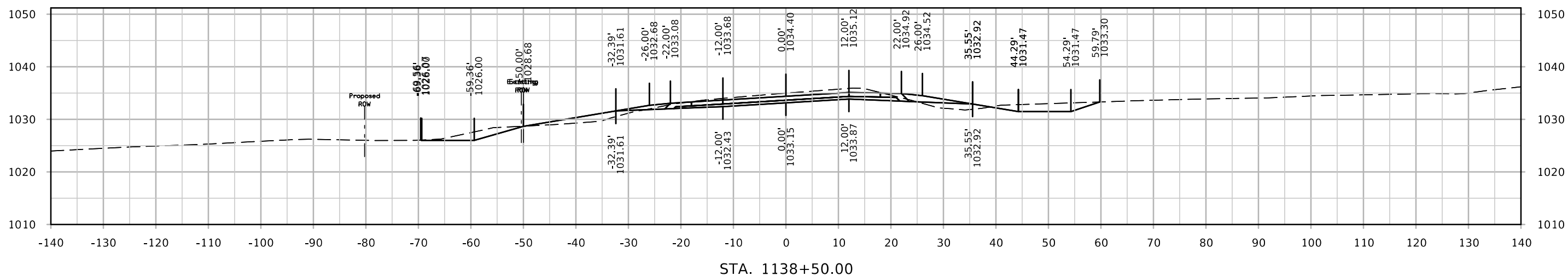


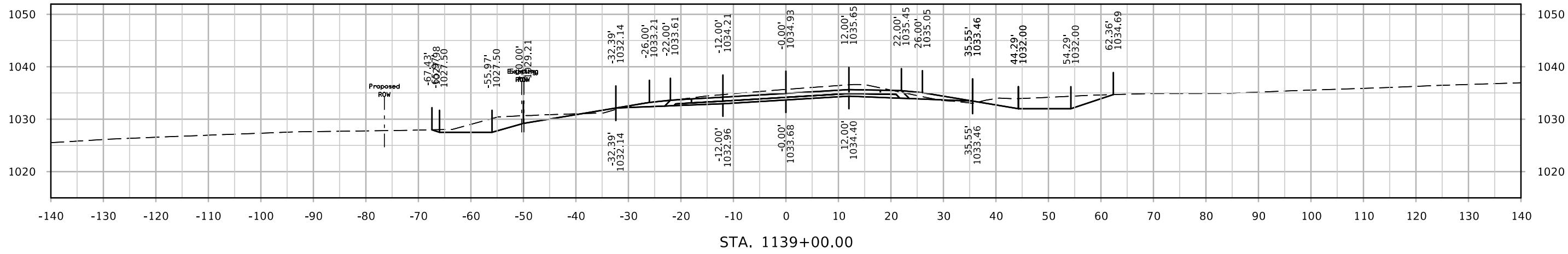
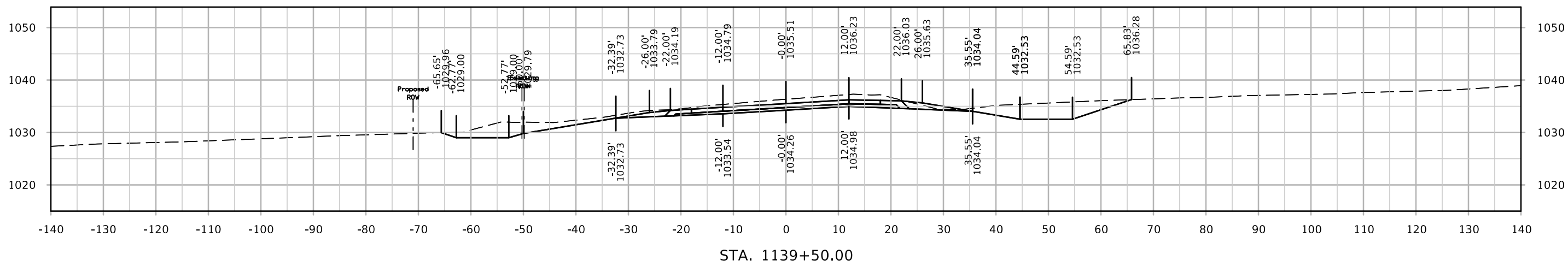
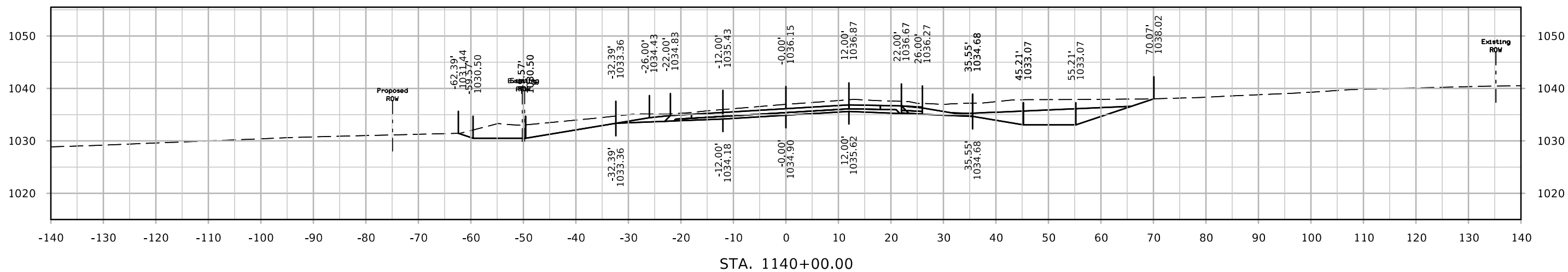


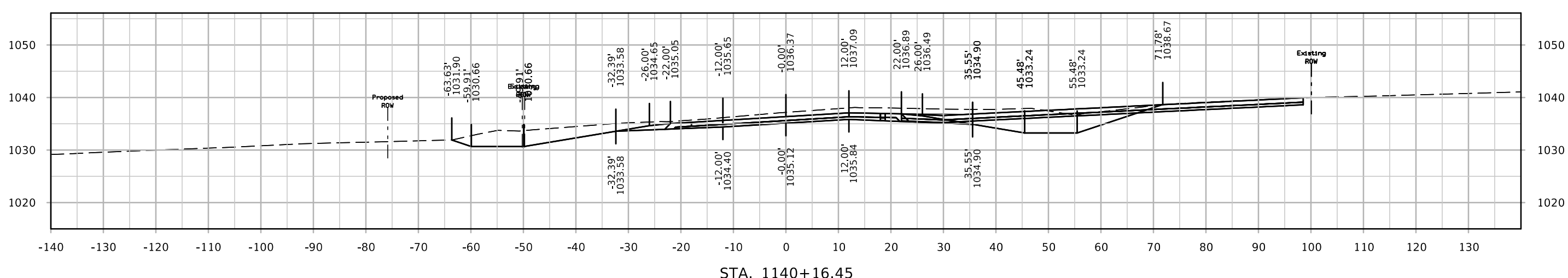
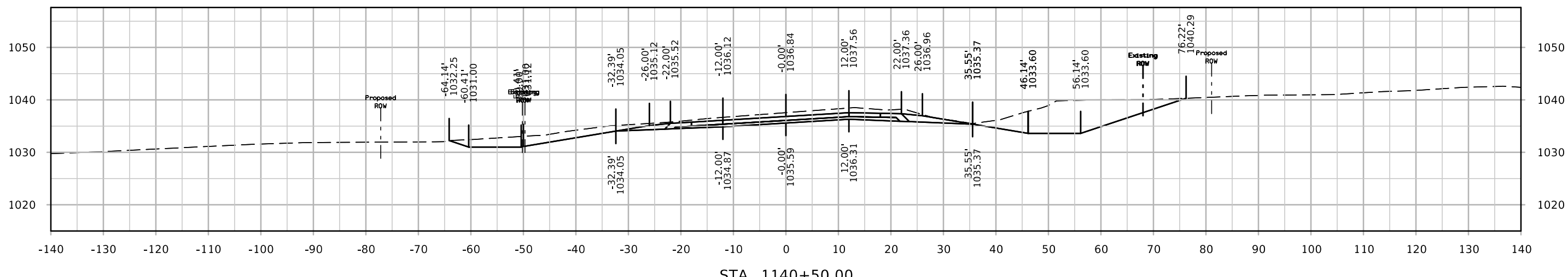
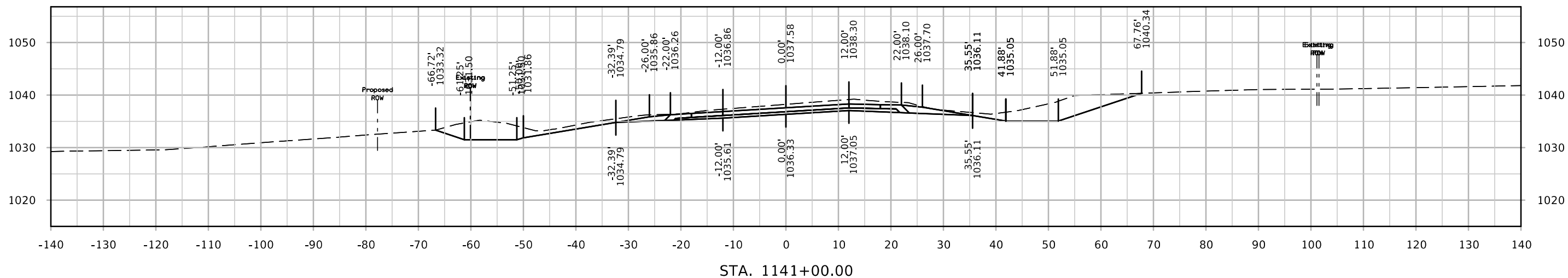


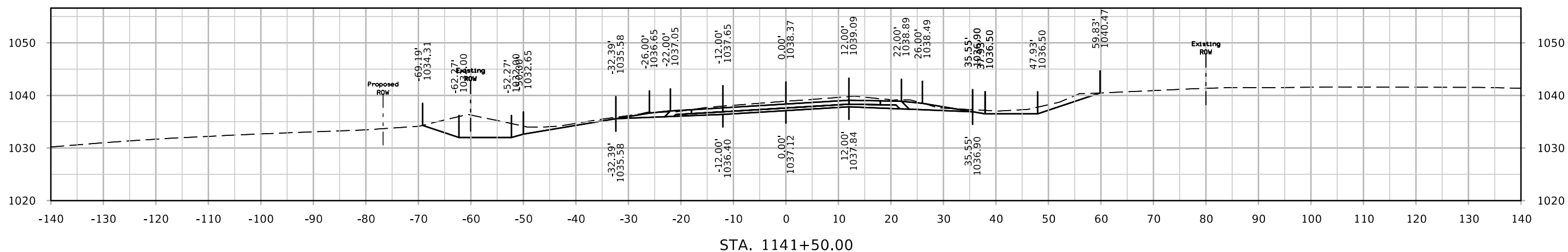
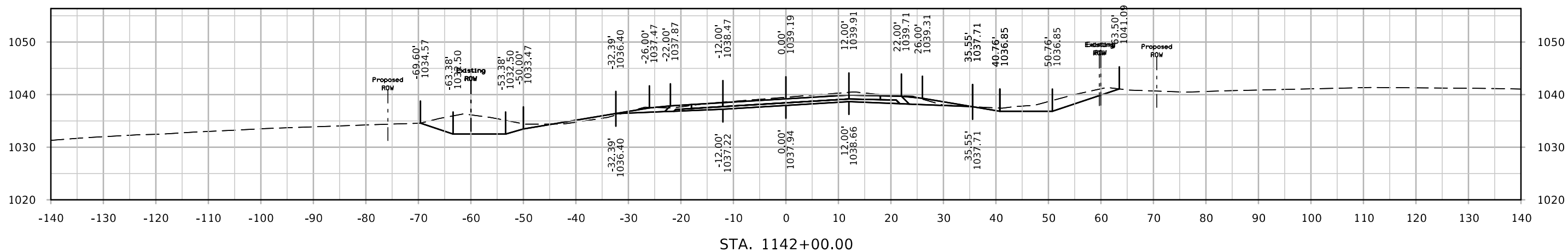
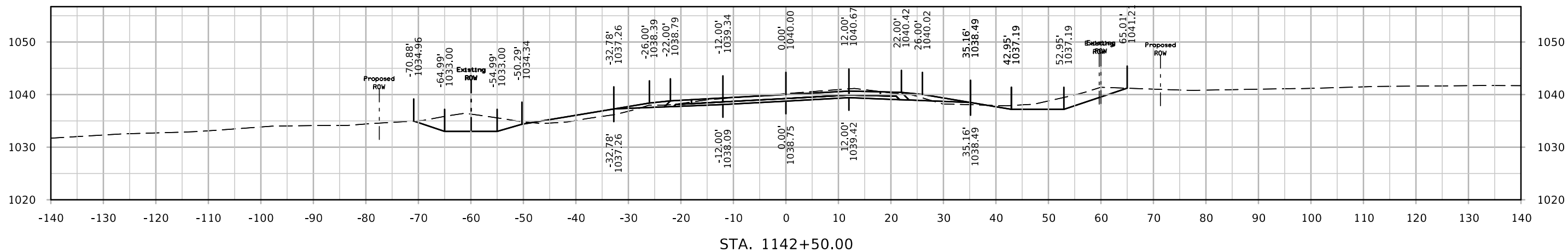
# IA 13



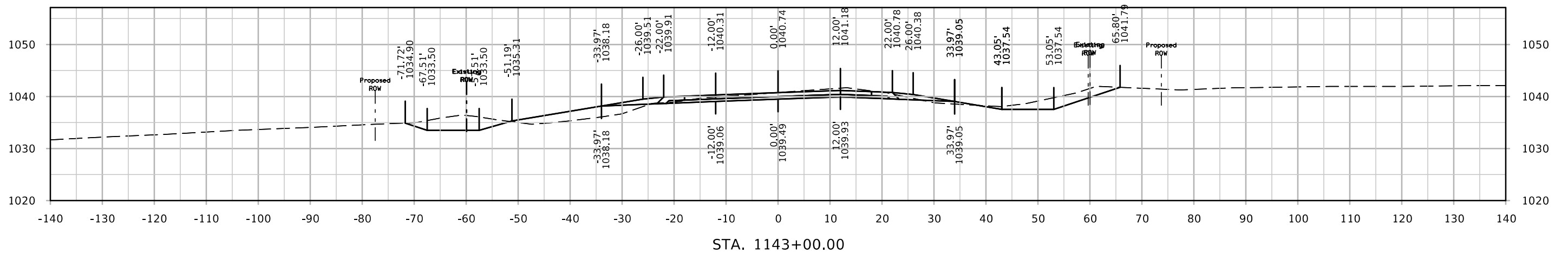
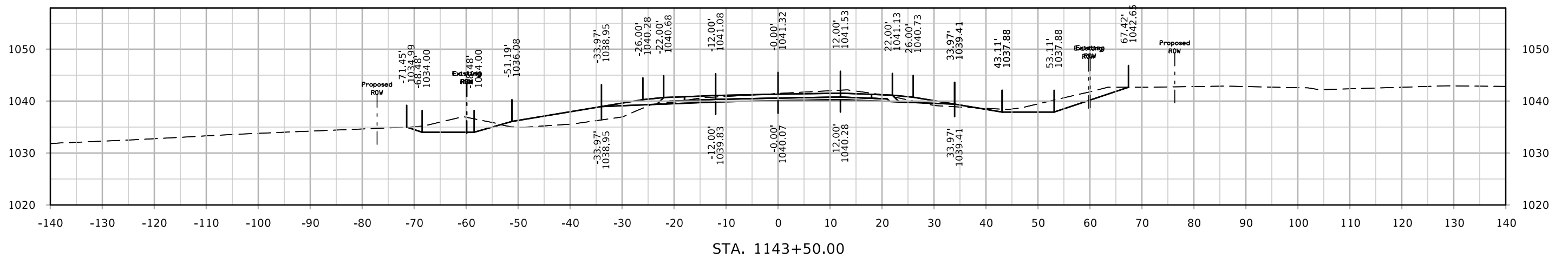
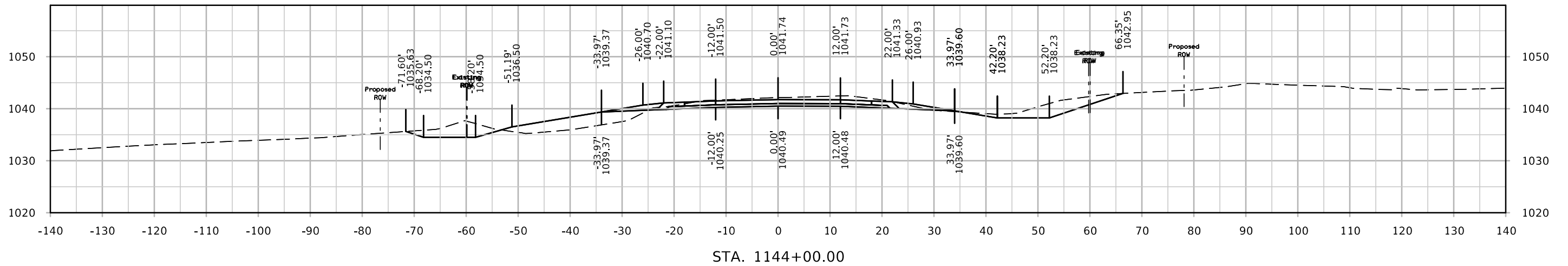




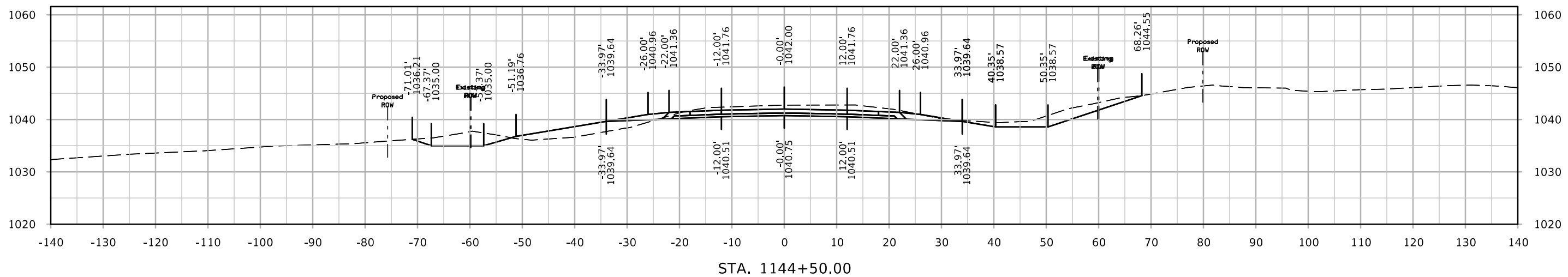
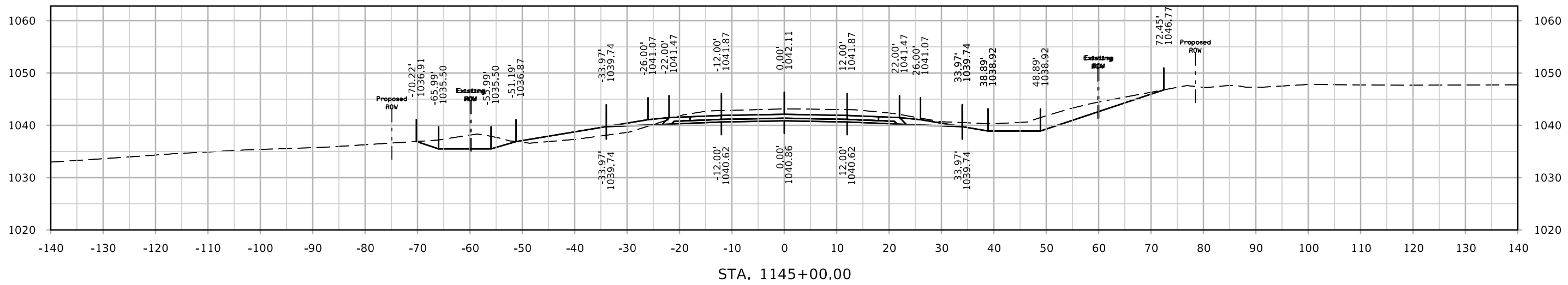
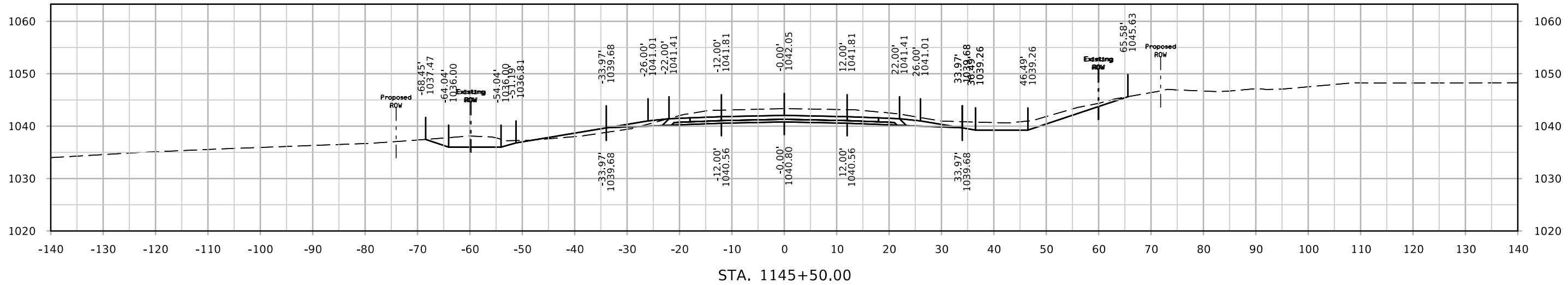


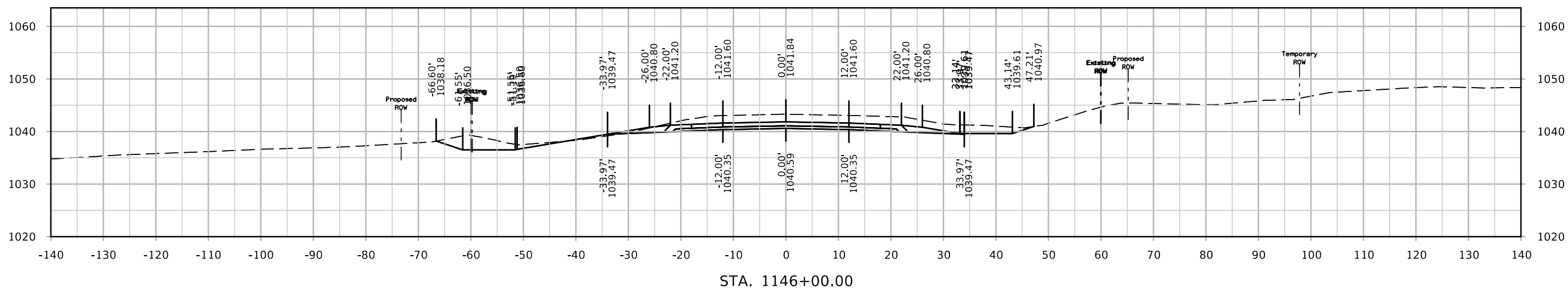
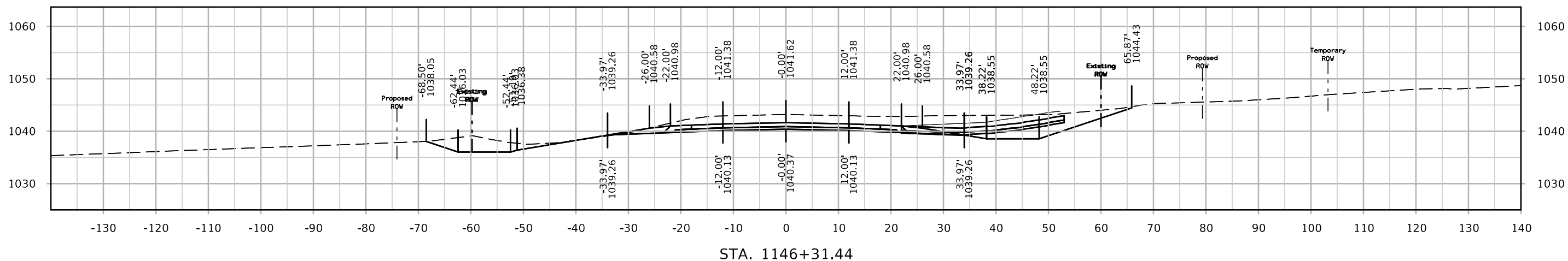
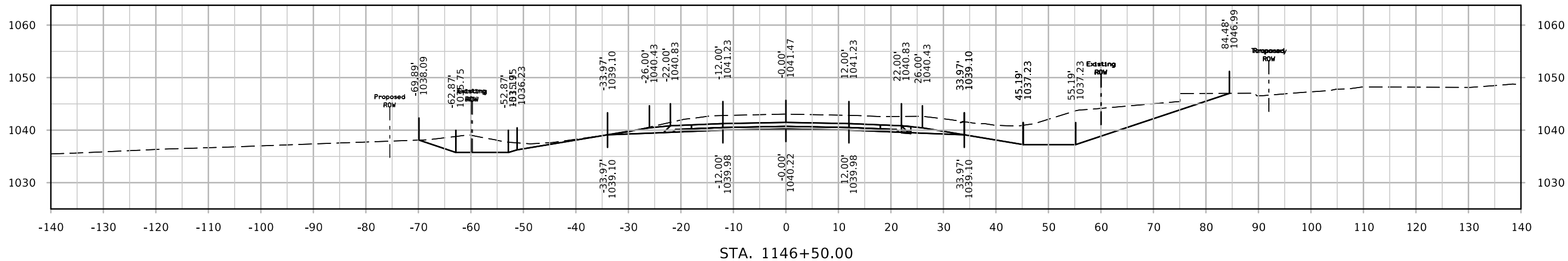


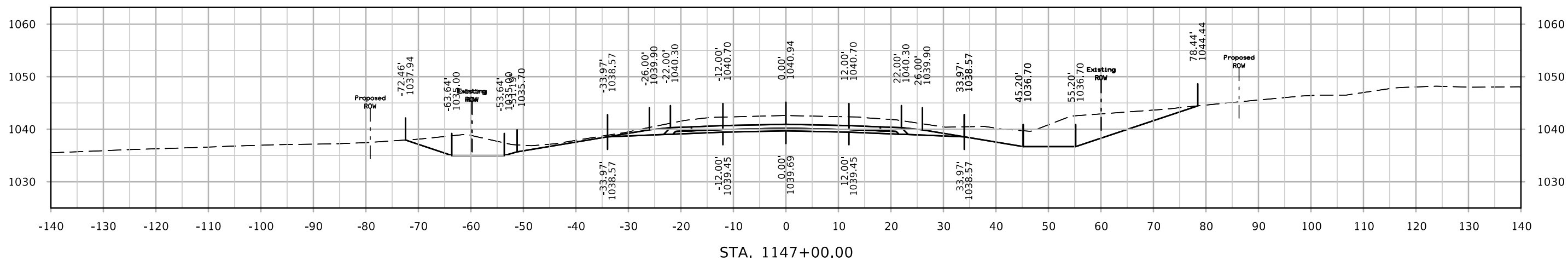
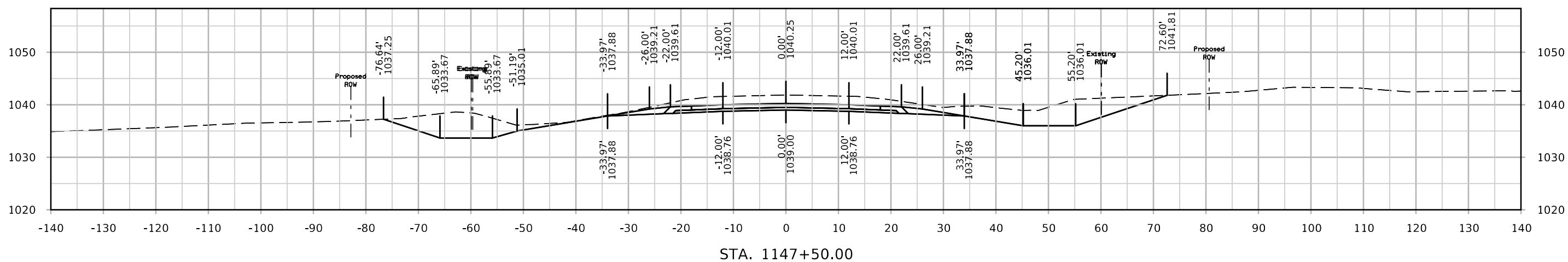
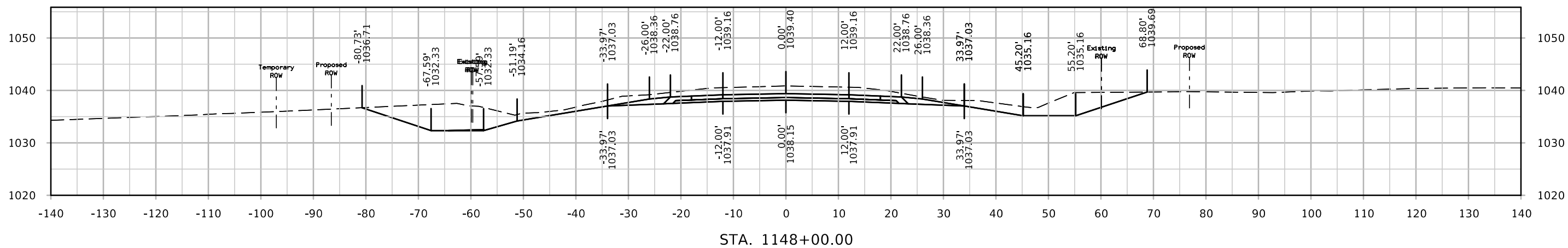


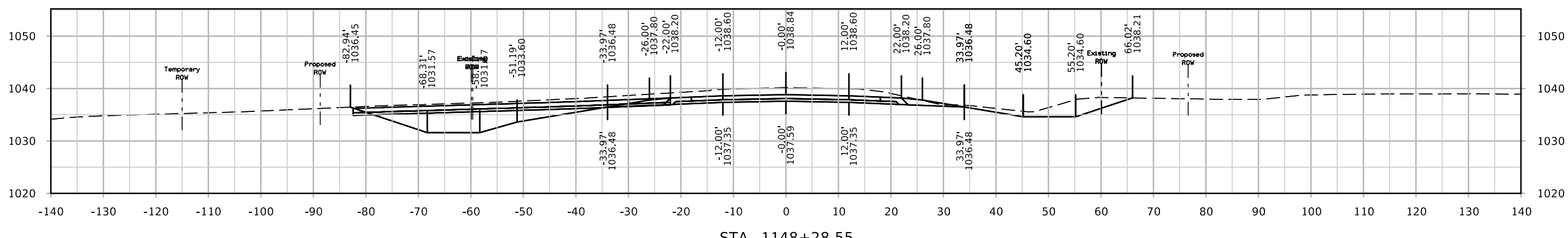
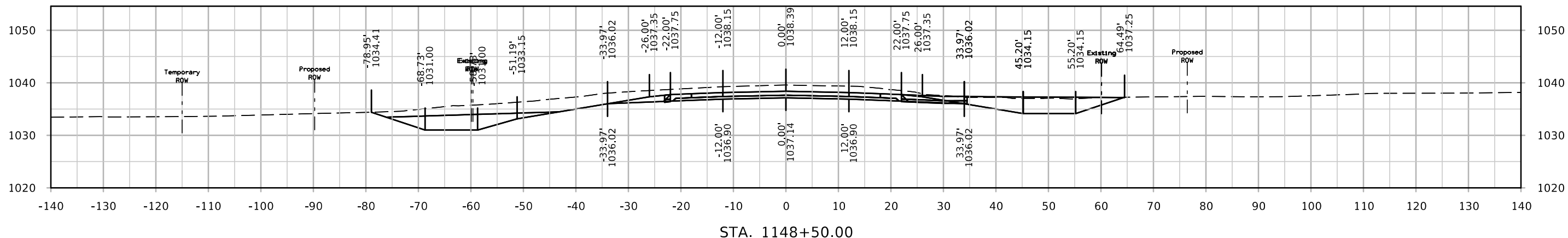
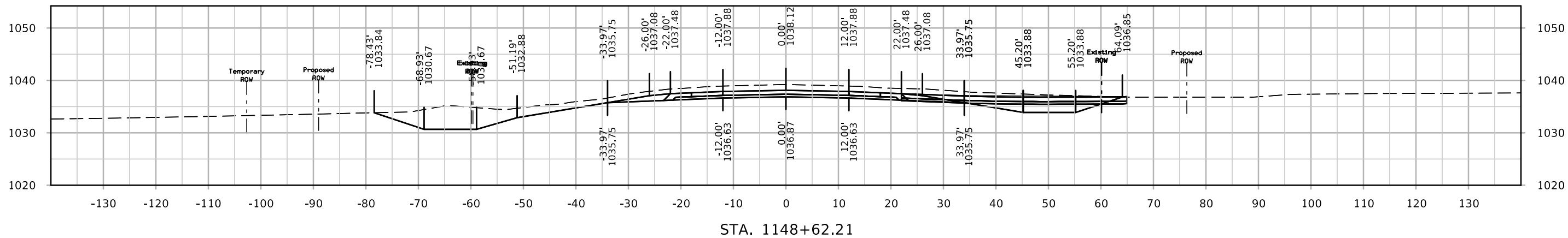


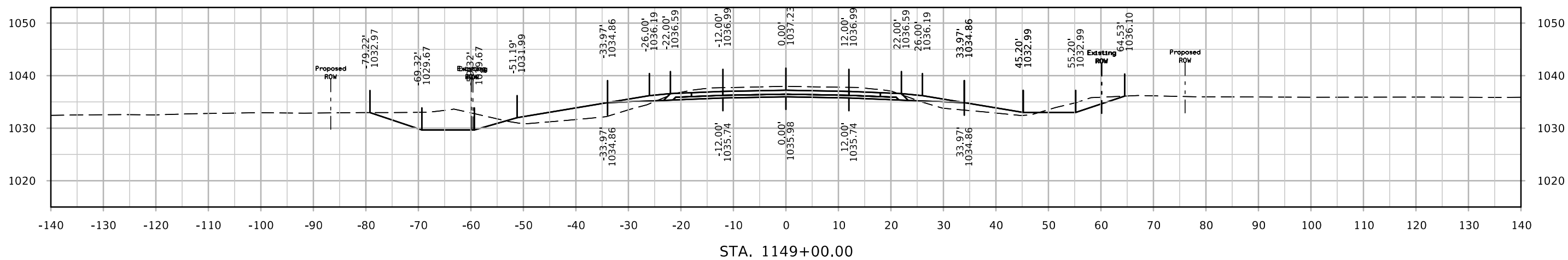
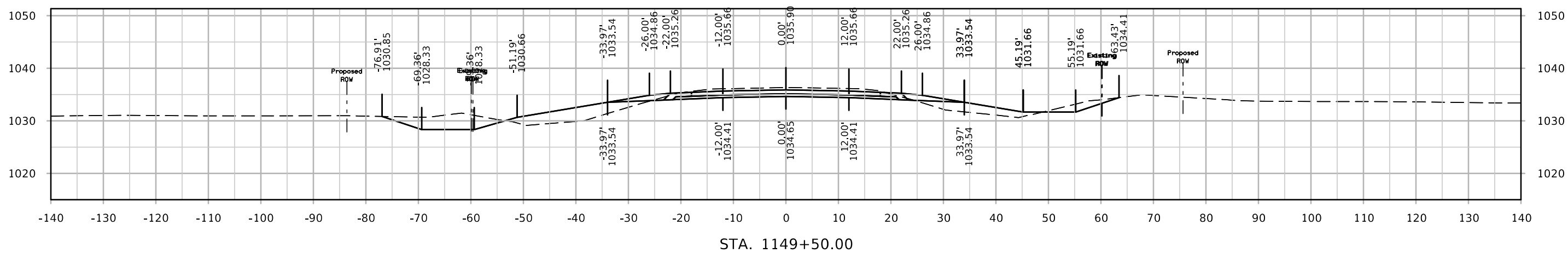
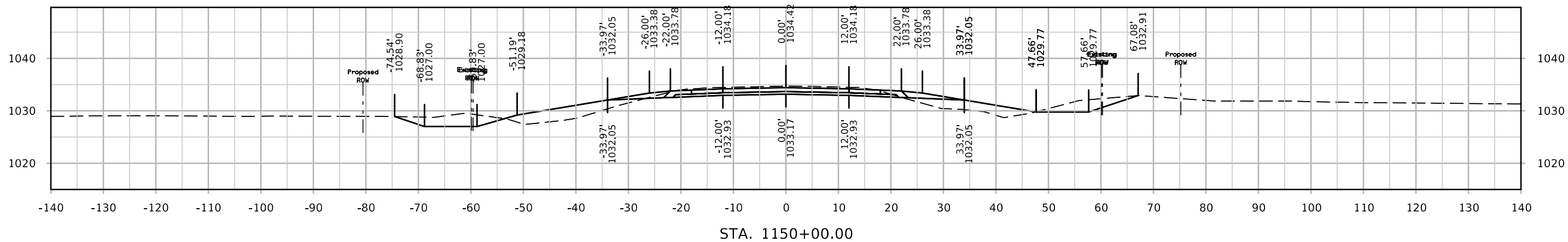
# IA 13

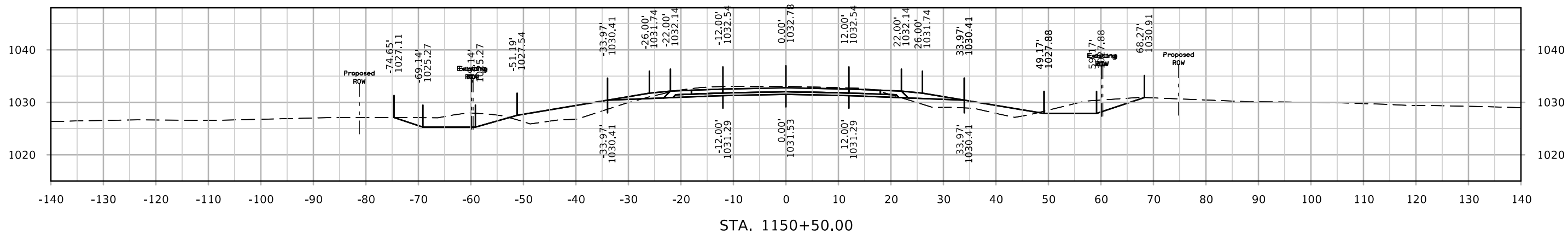
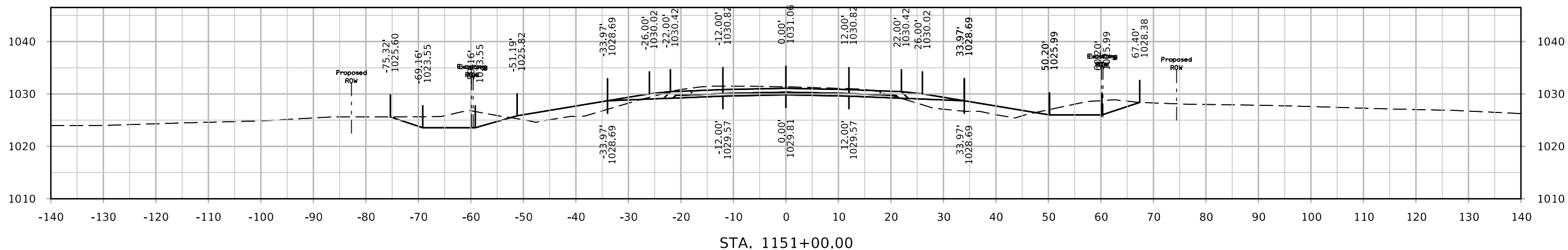


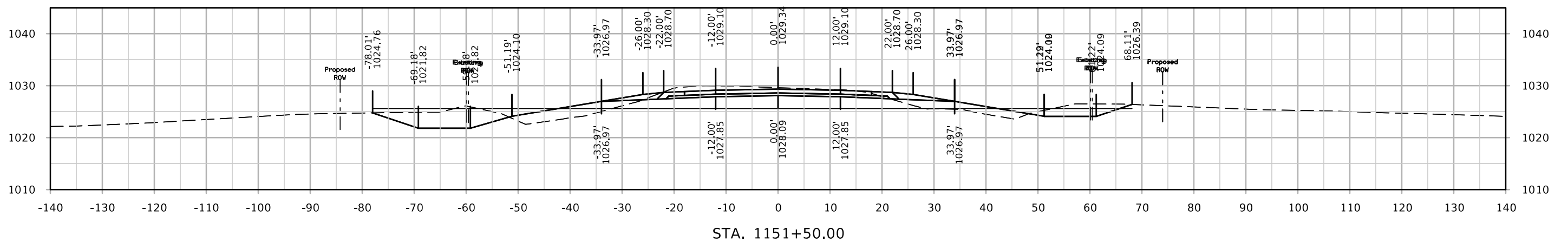
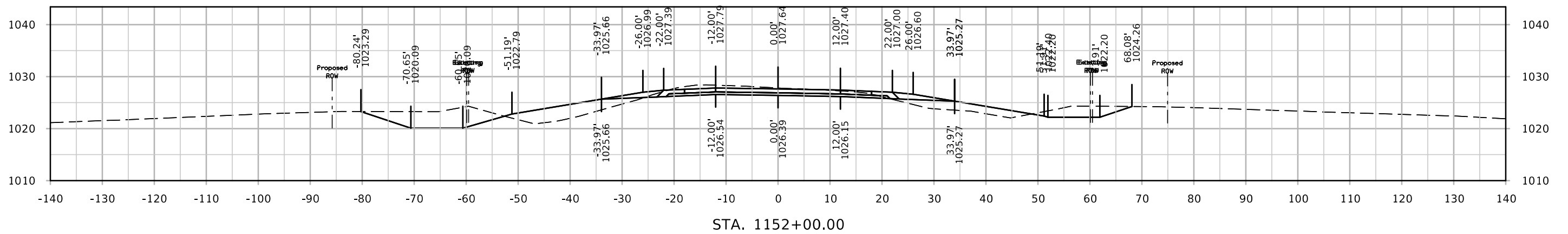
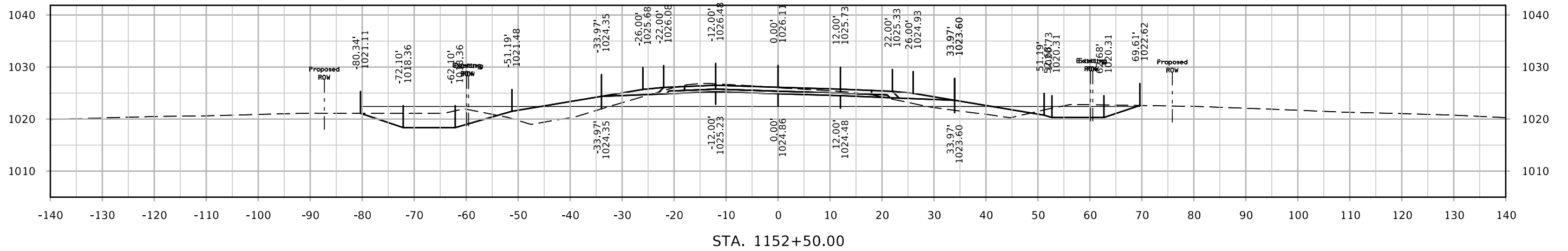




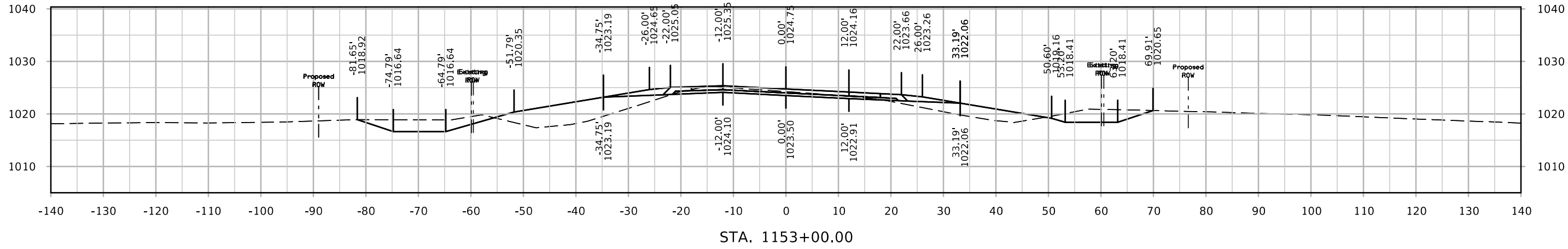
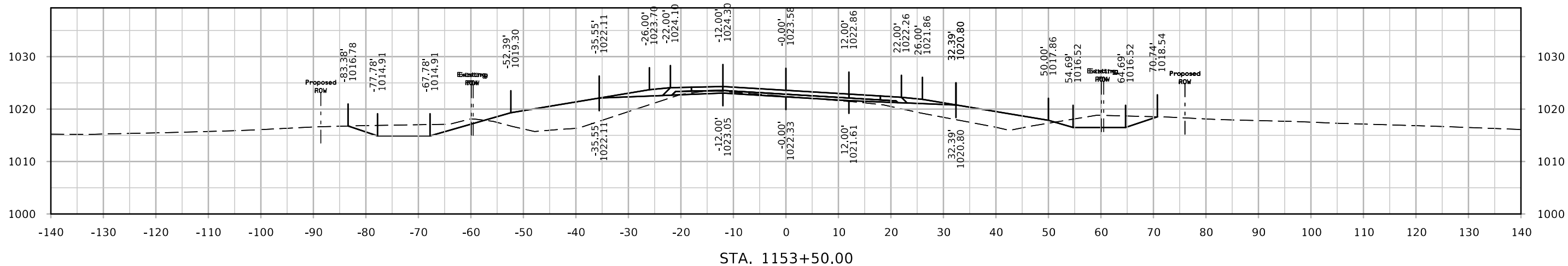
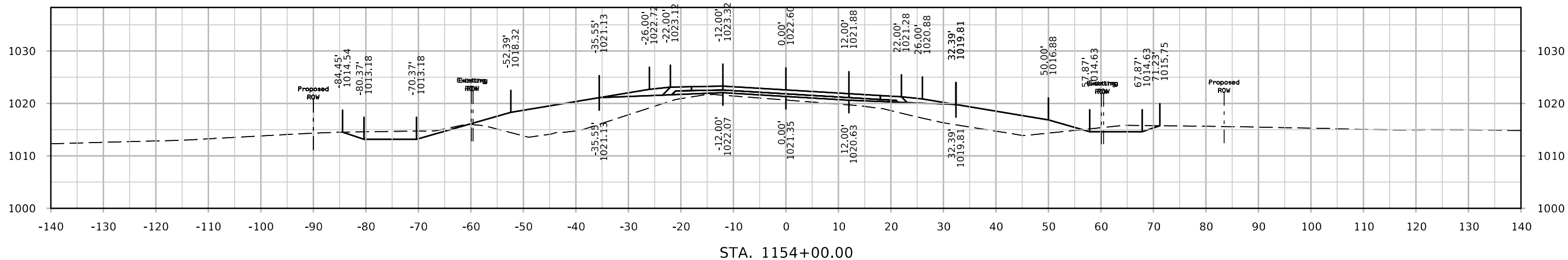


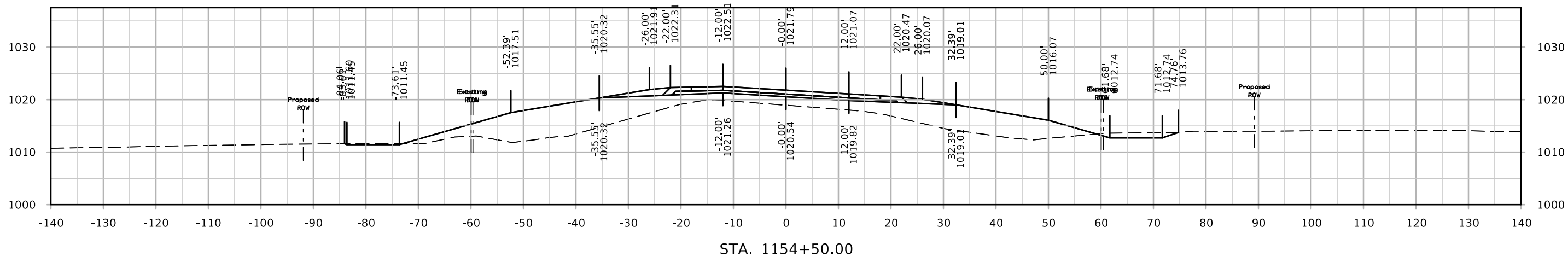
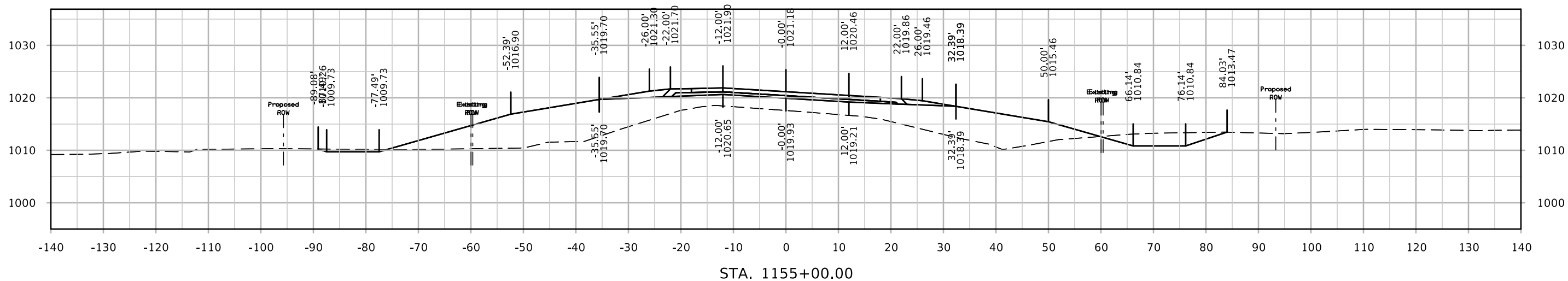
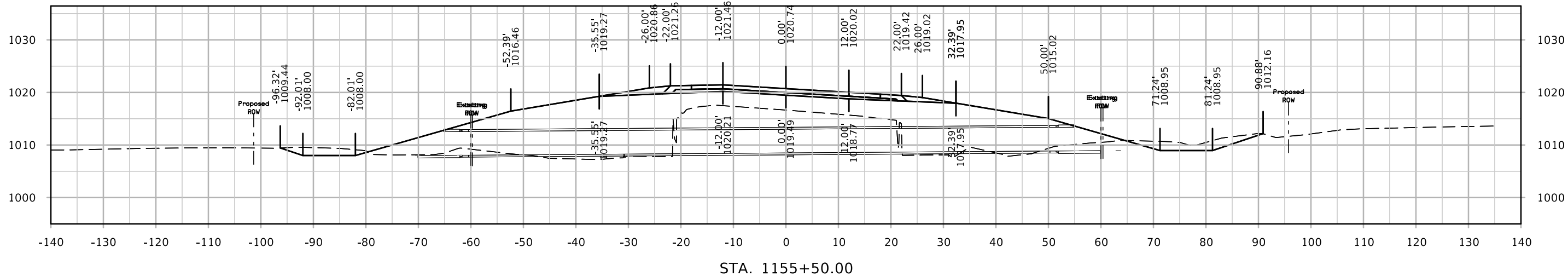


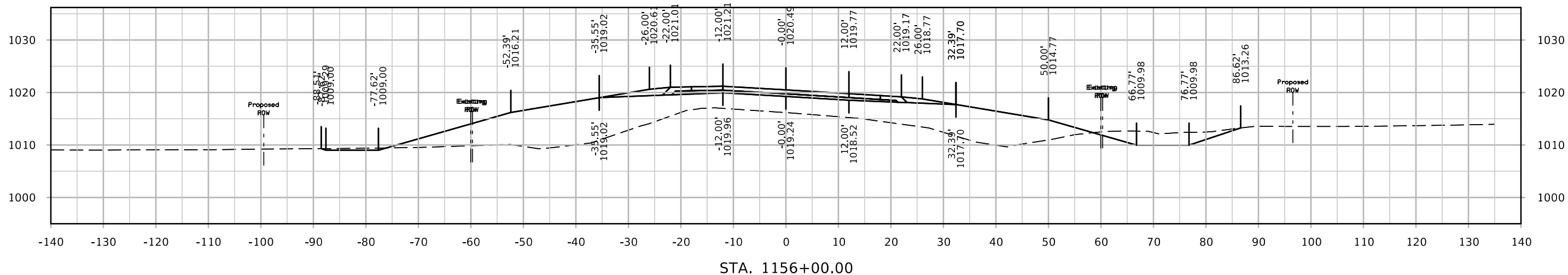
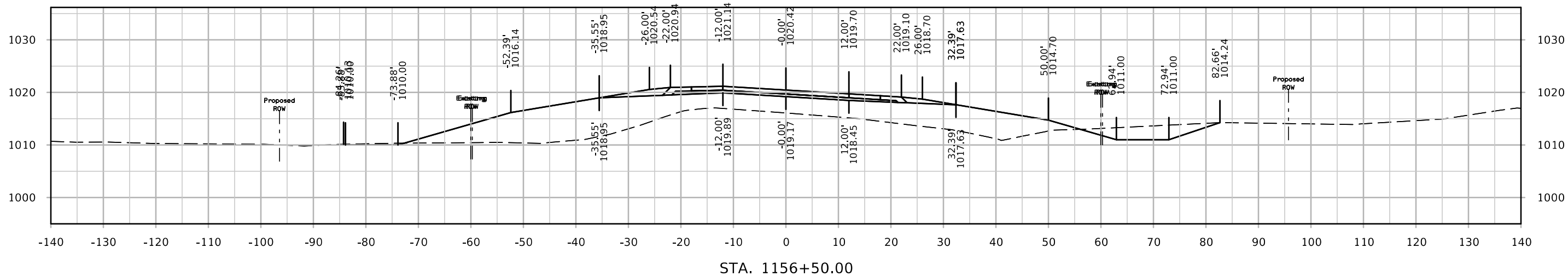
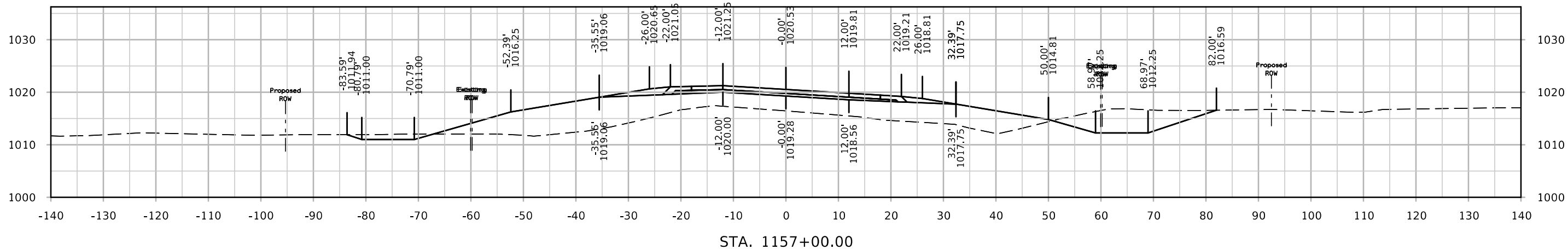


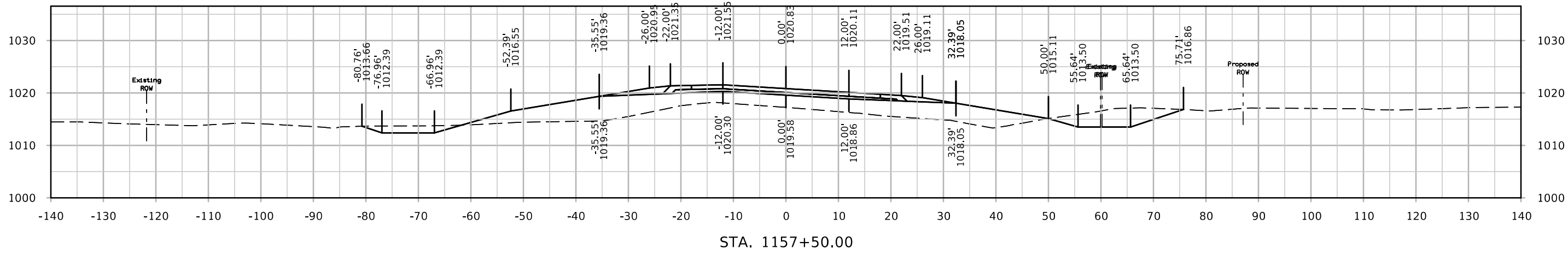
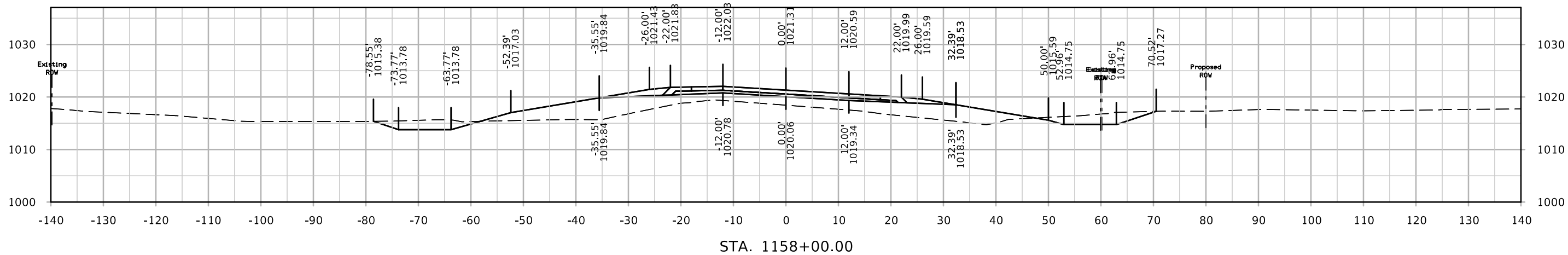
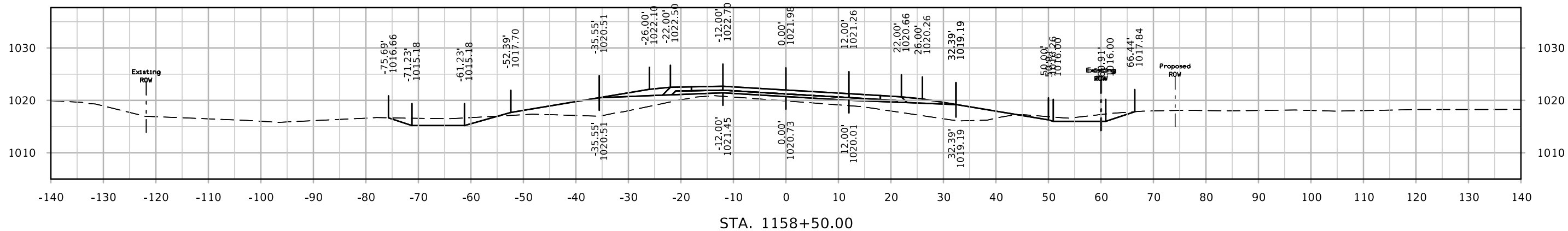


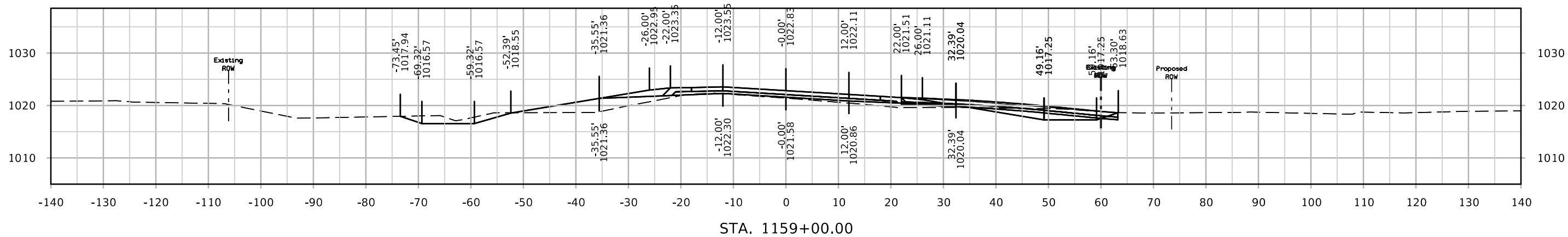
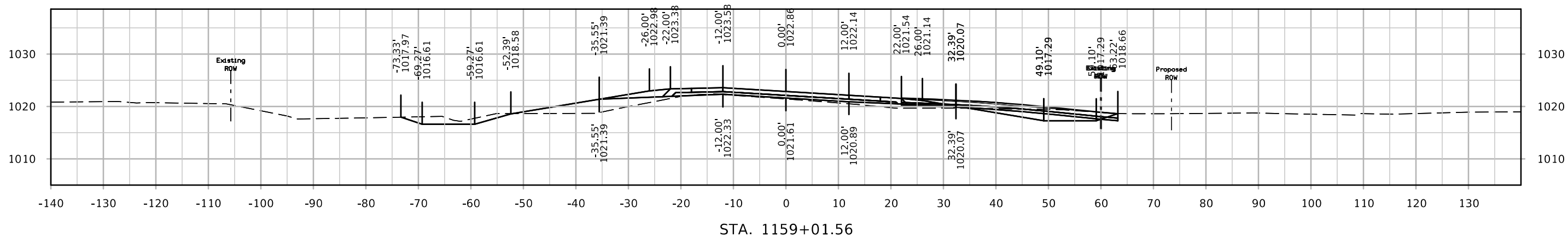
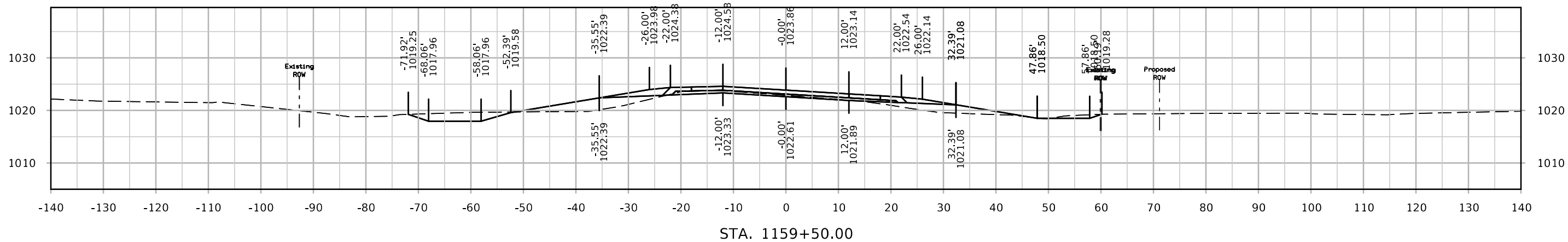


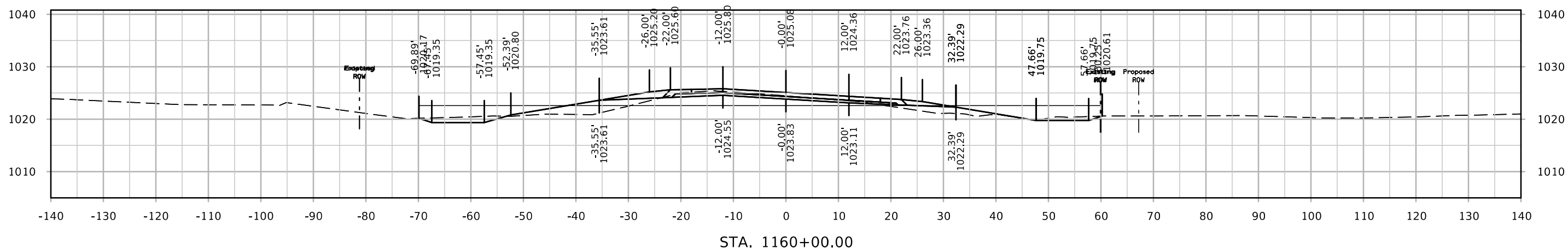
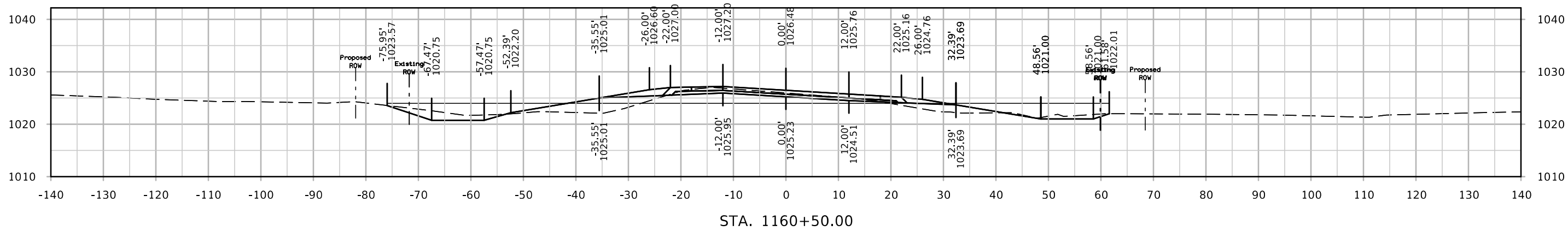
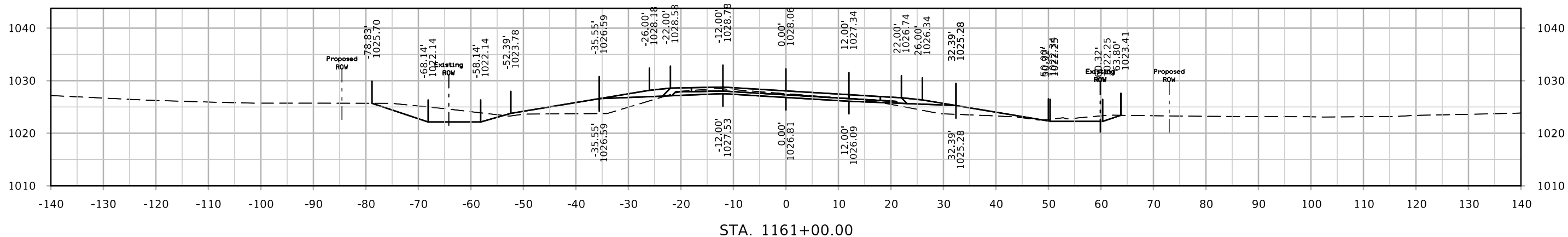


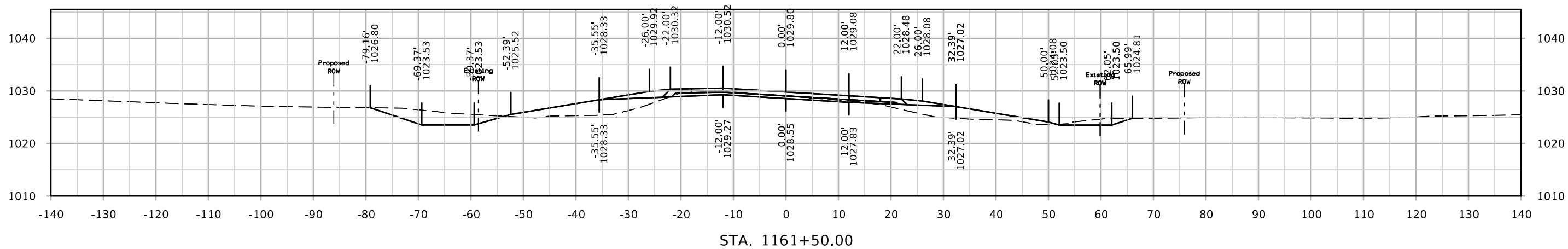
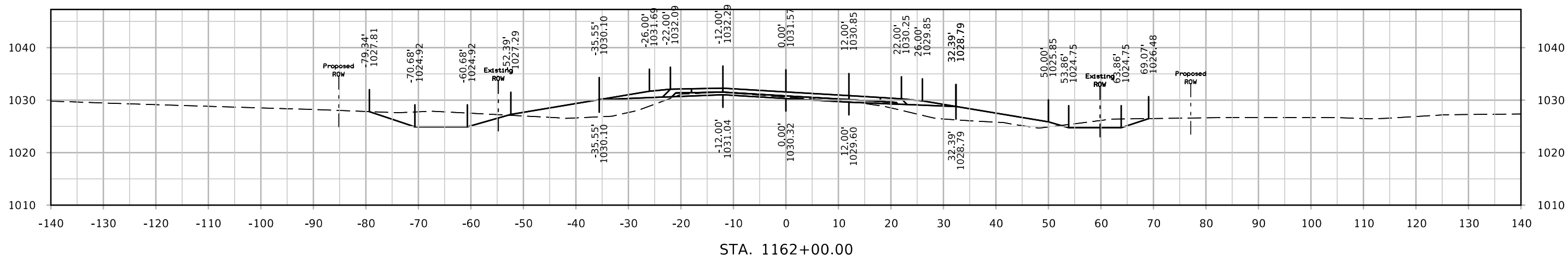
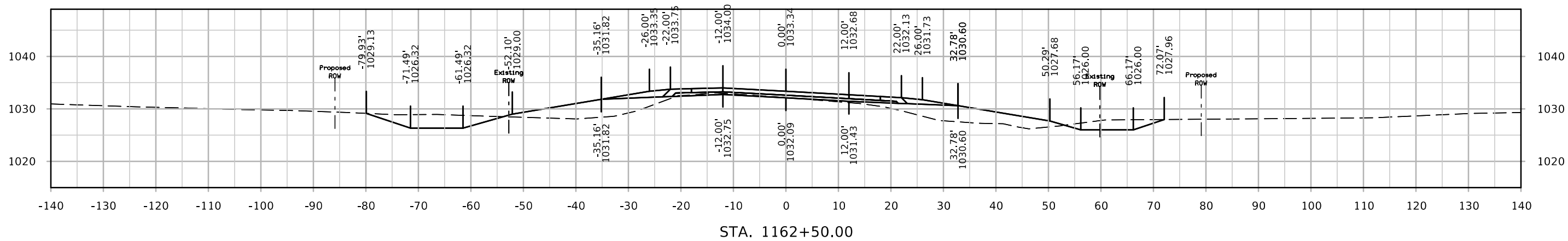


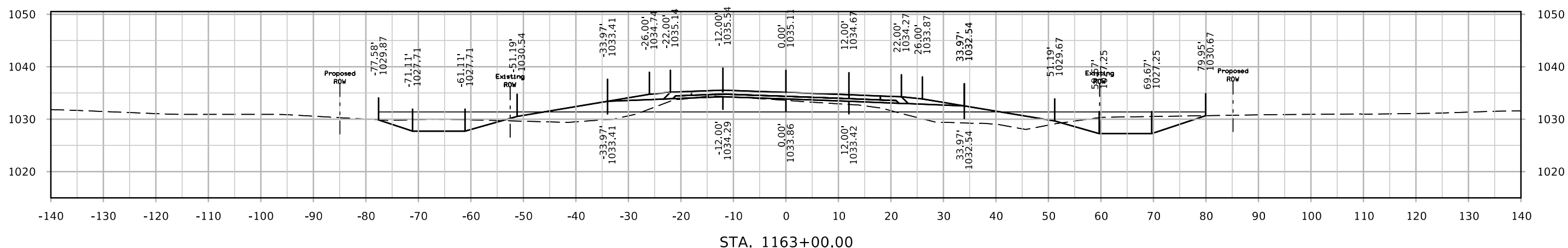
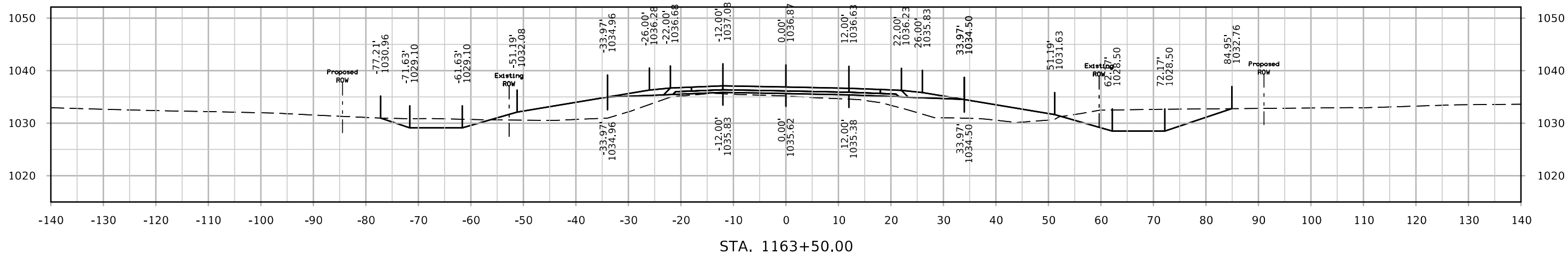
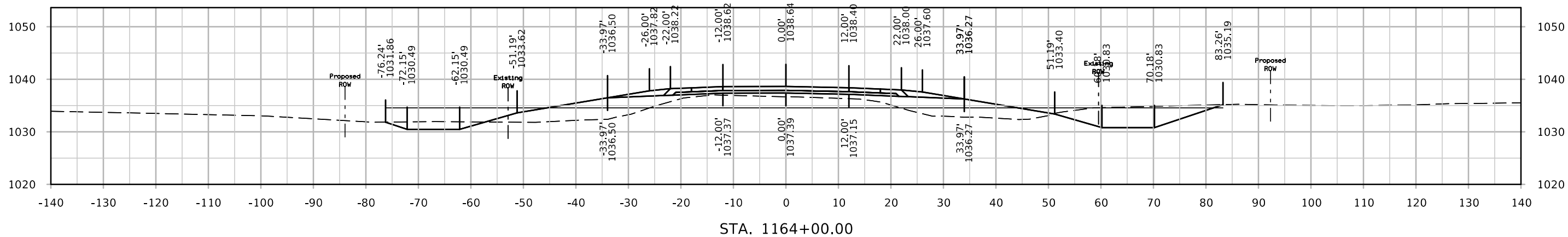




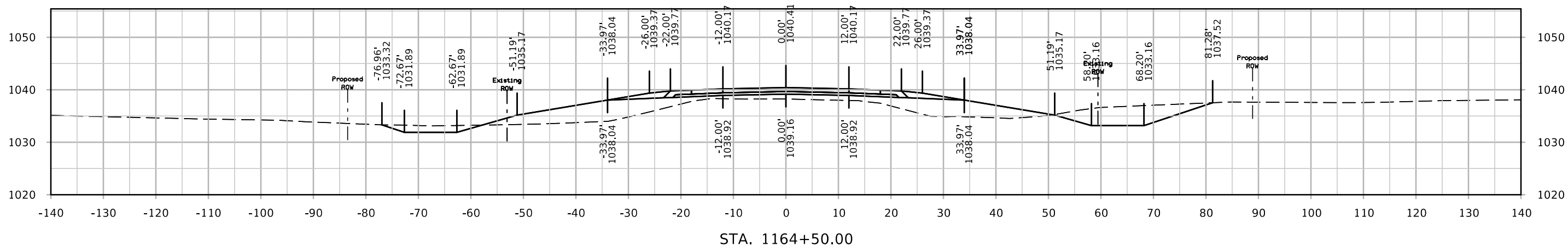
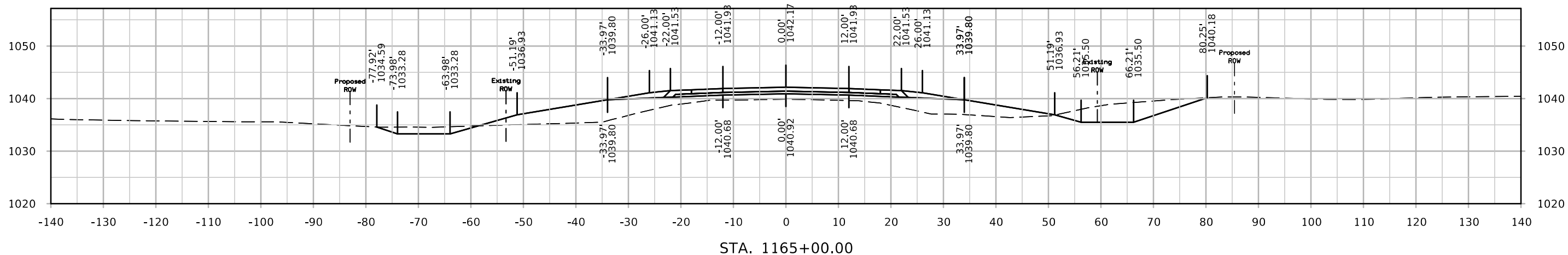
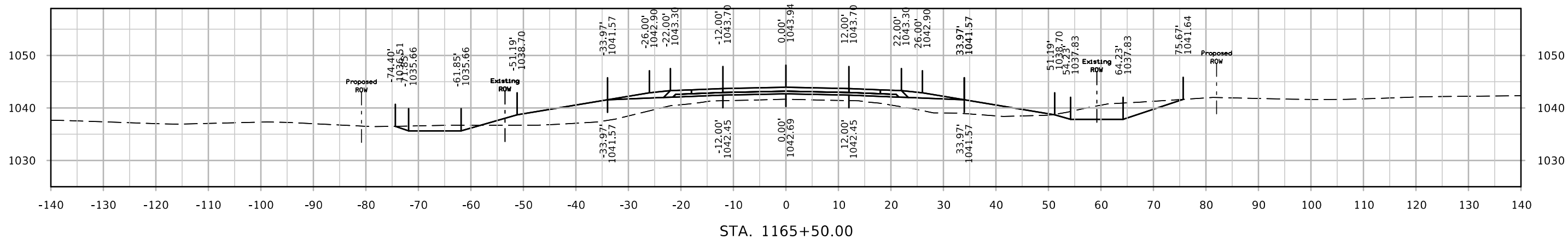


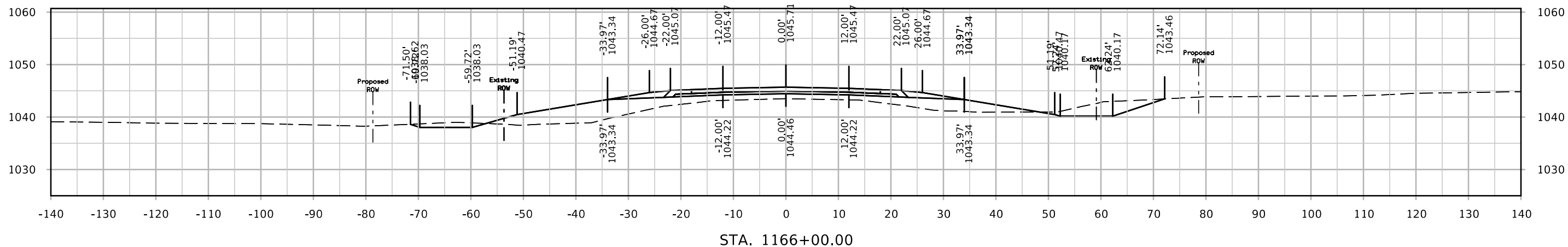
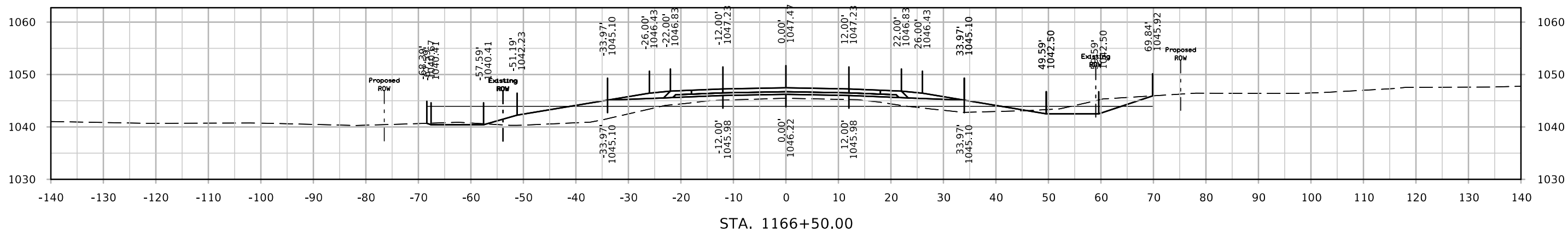
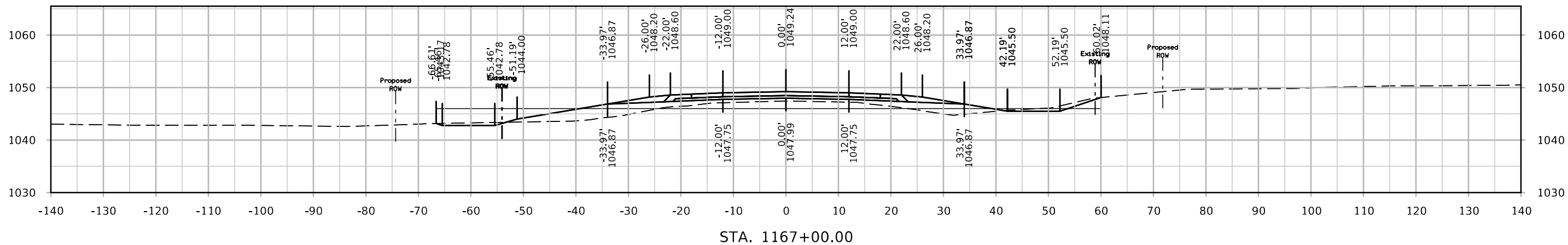


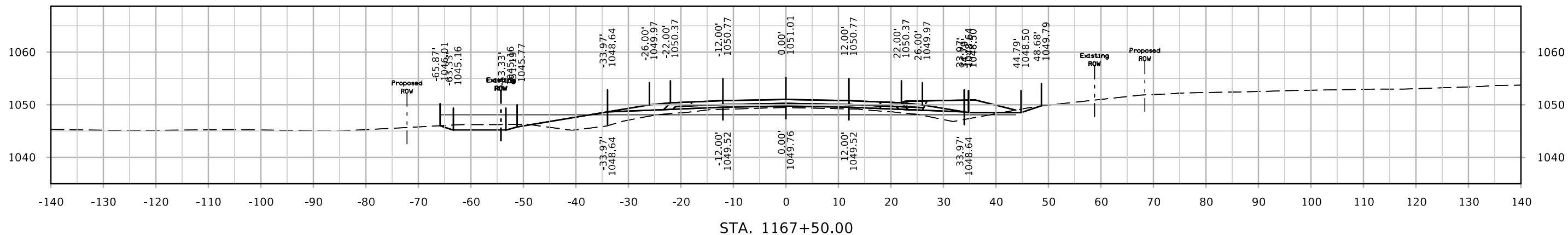
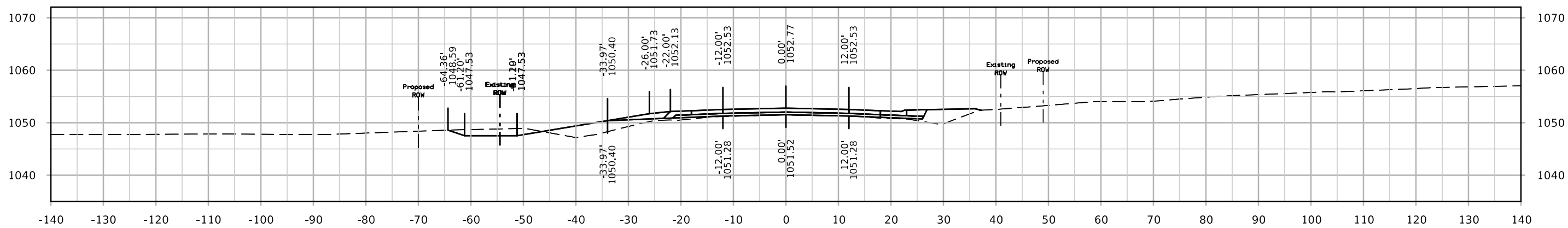
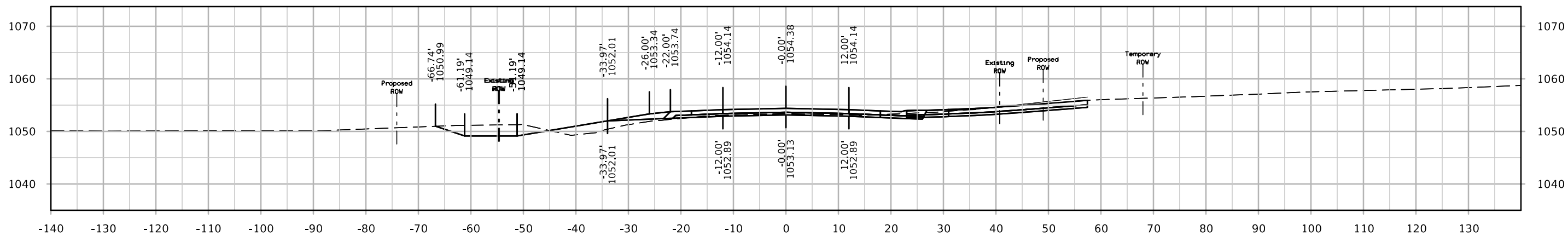


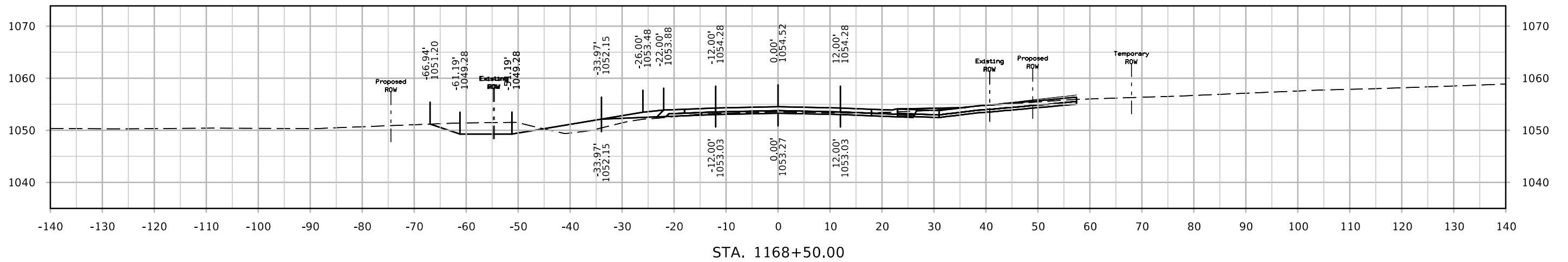
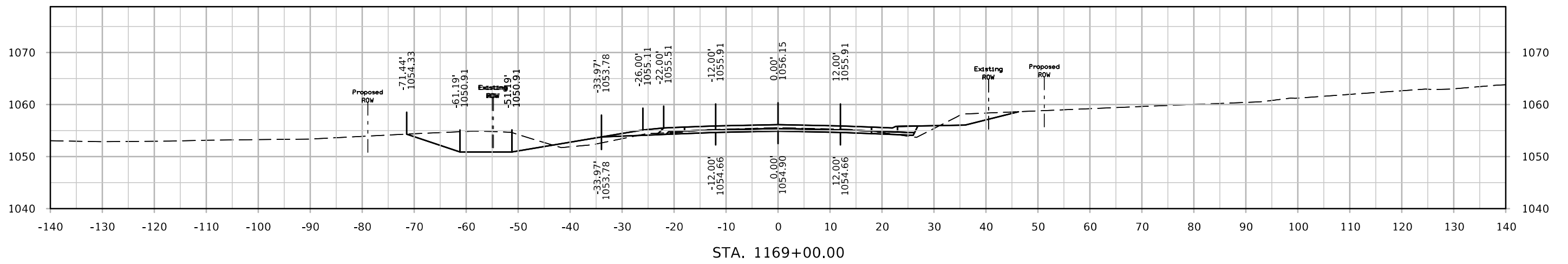
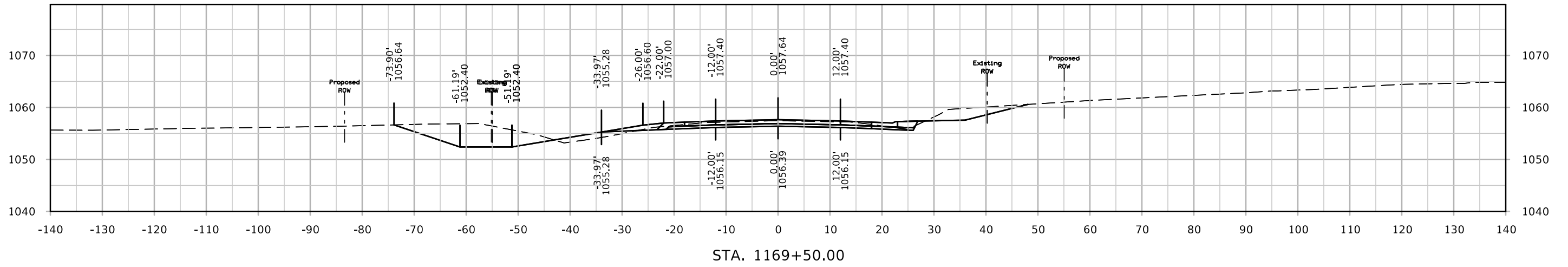


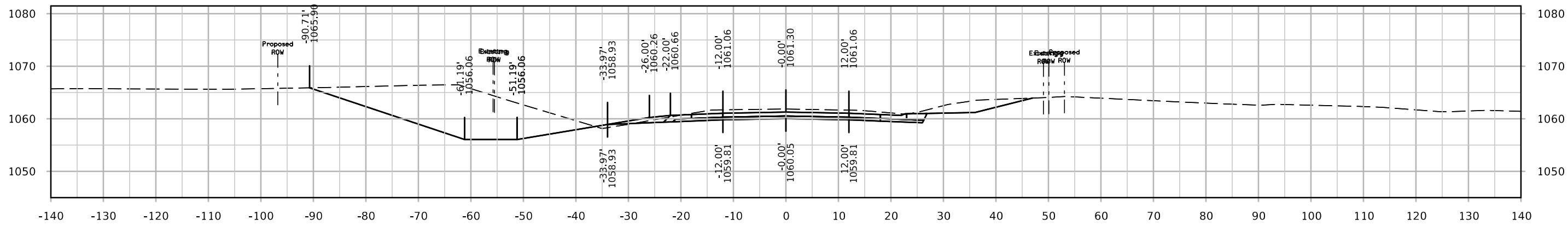




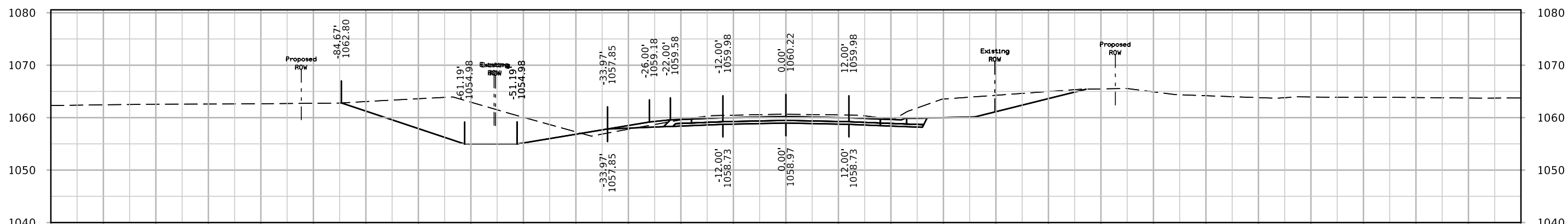




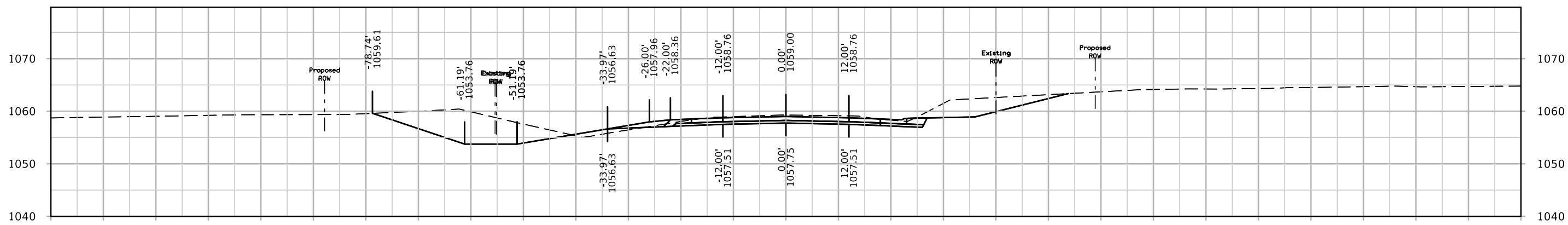




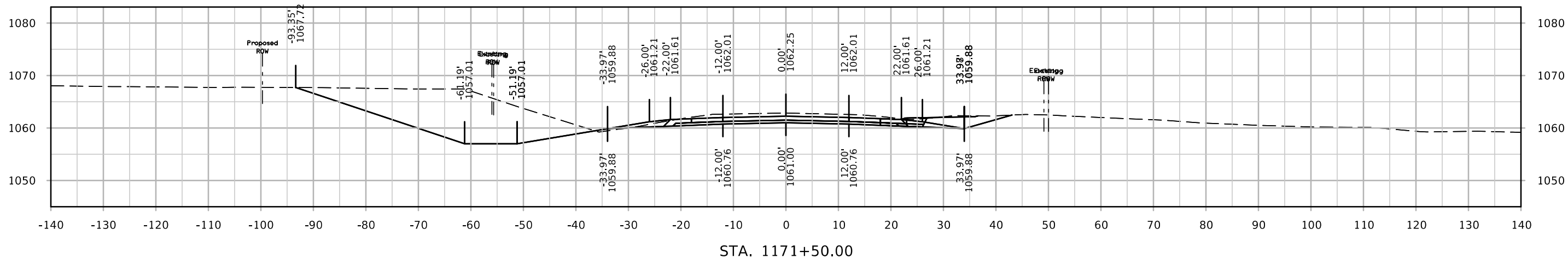
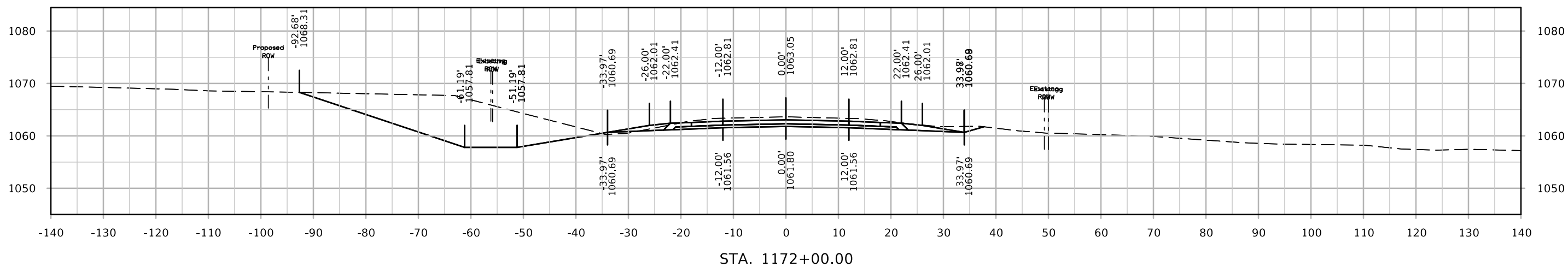
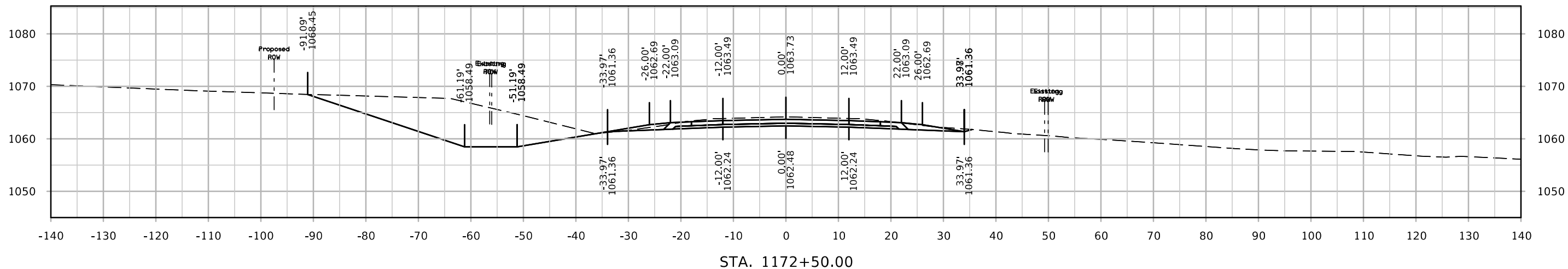
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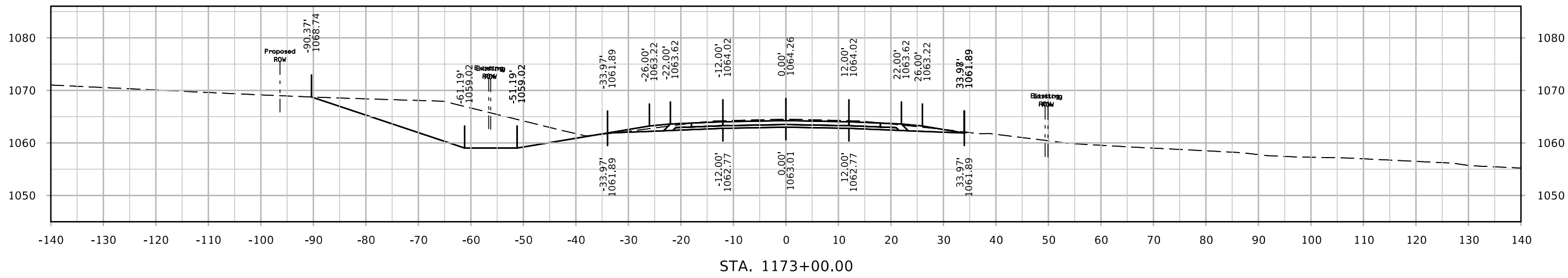
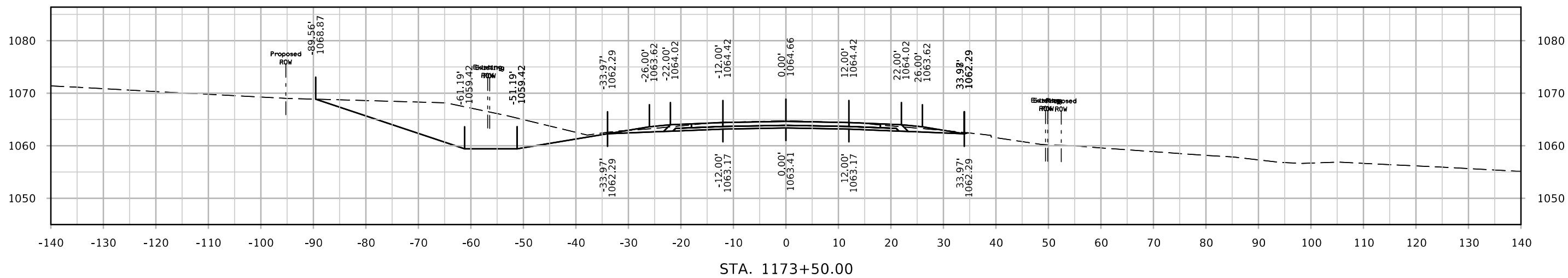
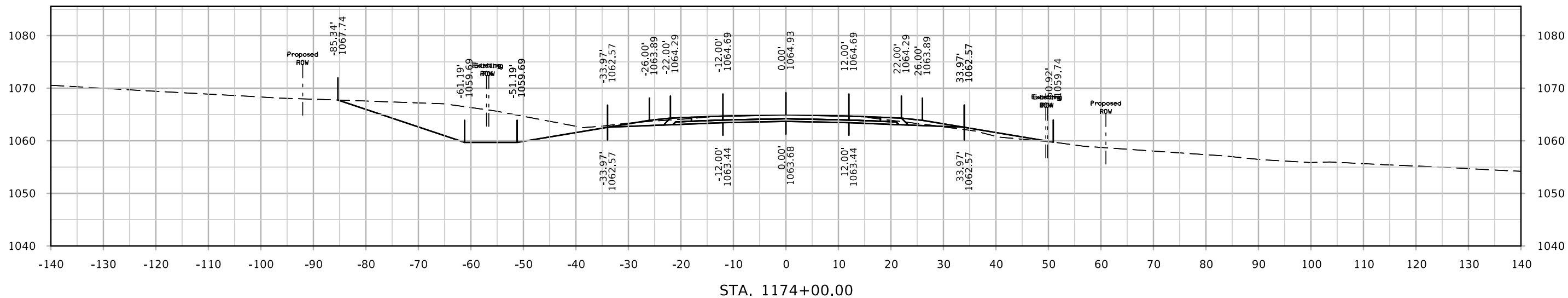


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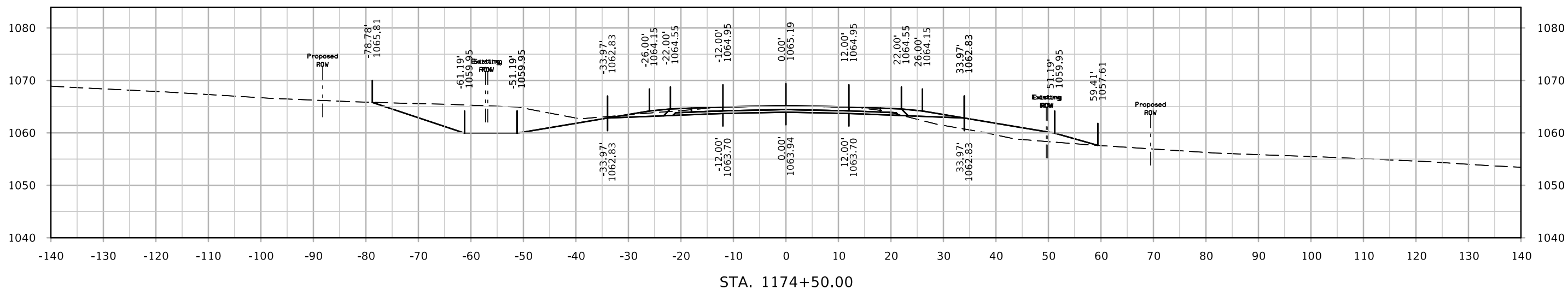
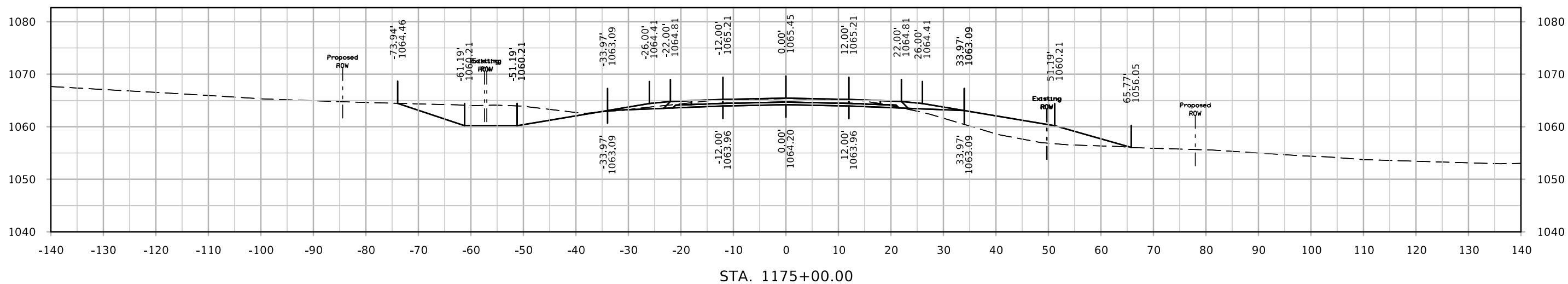
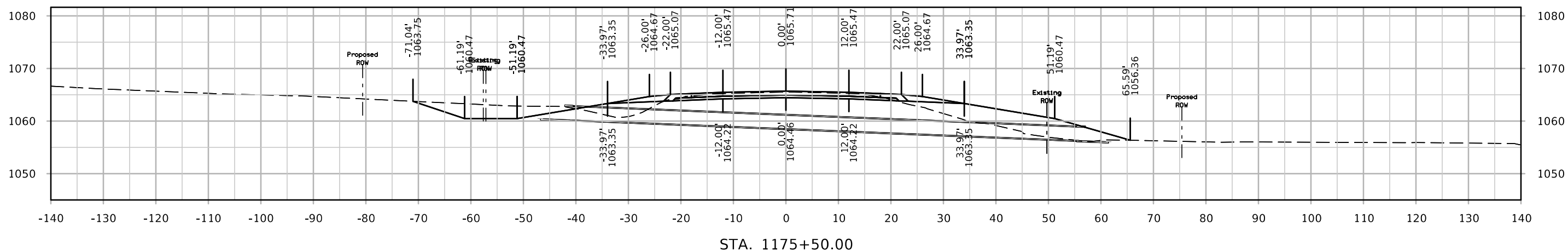


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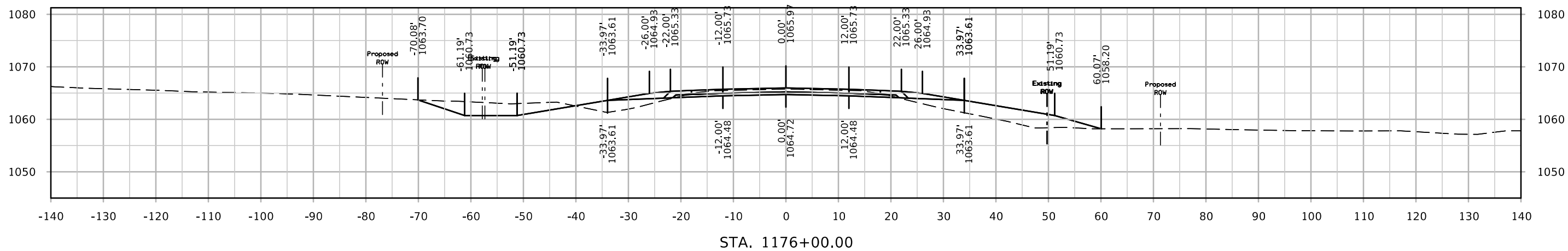
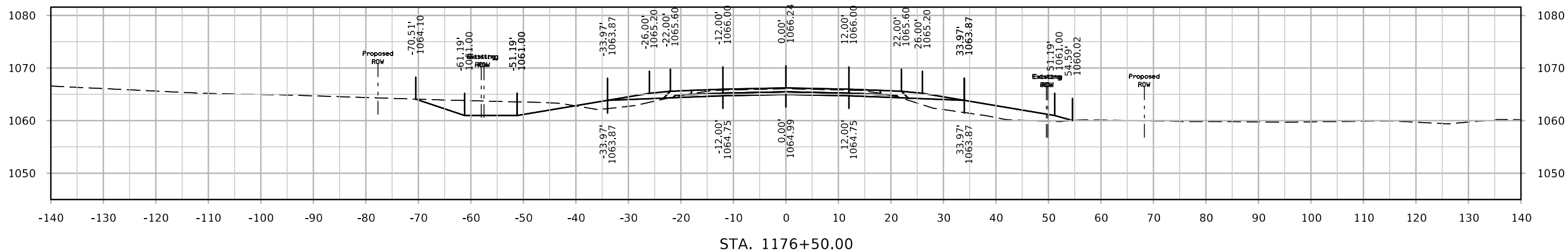
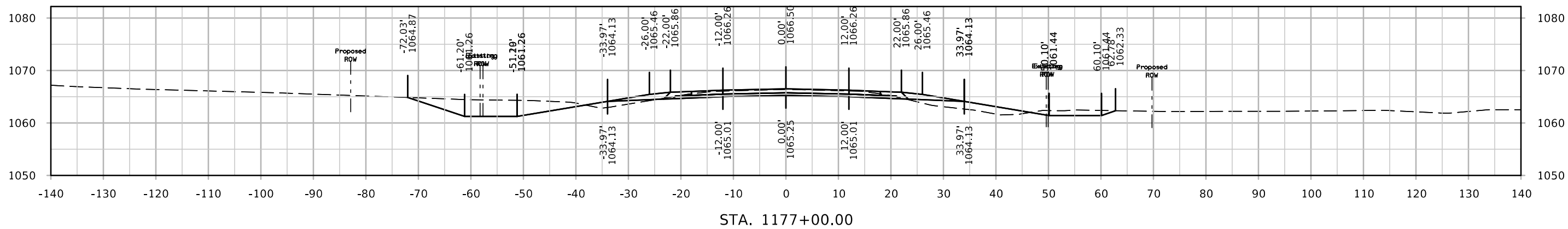


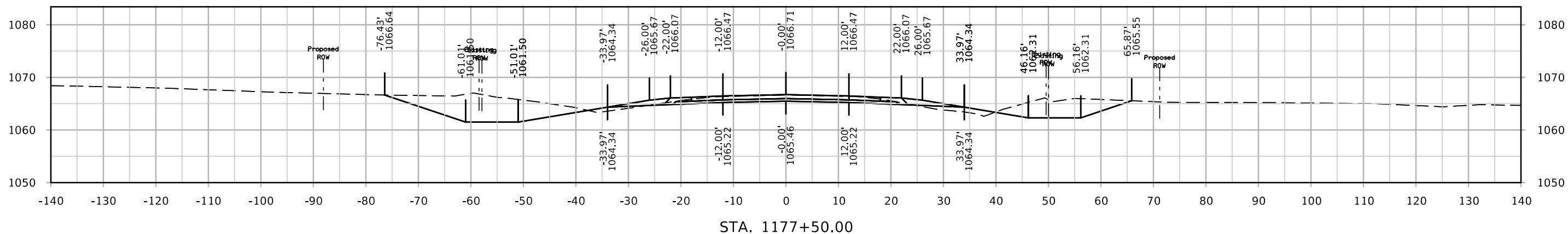
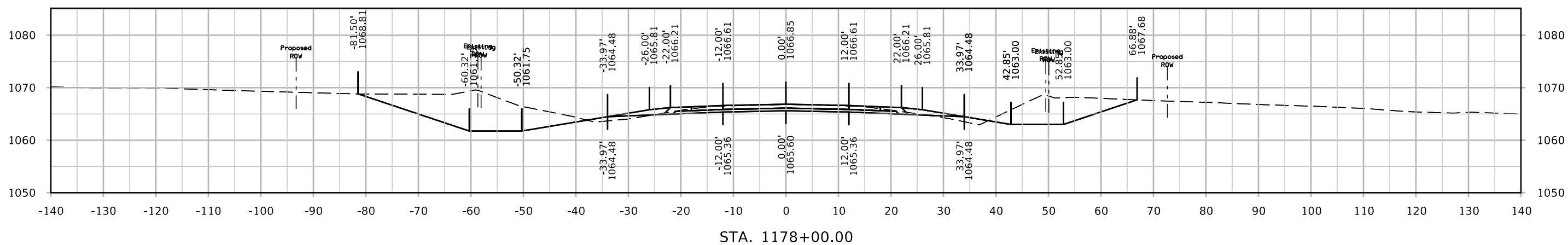
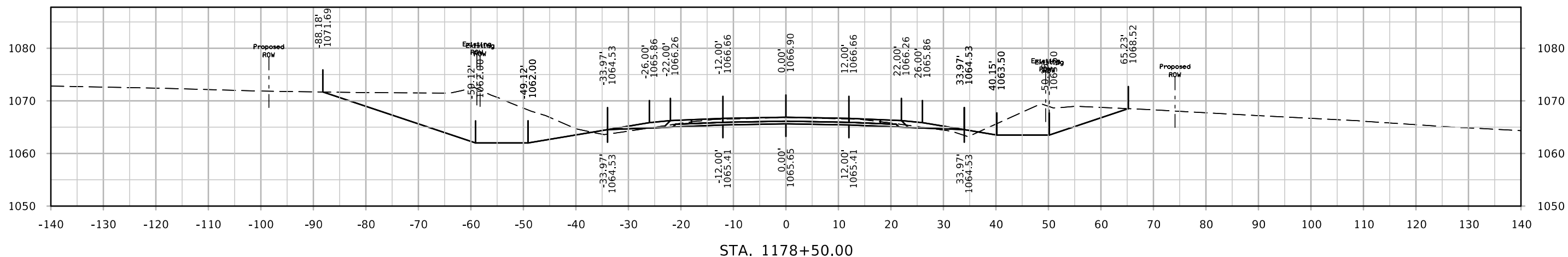


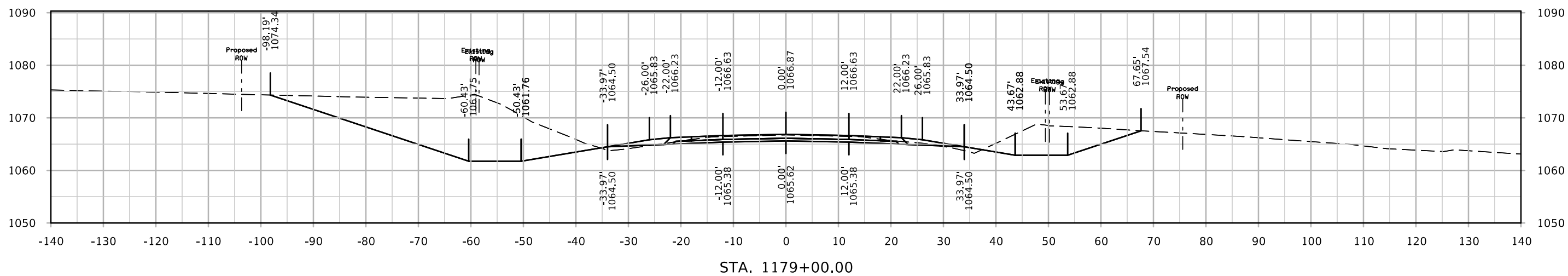
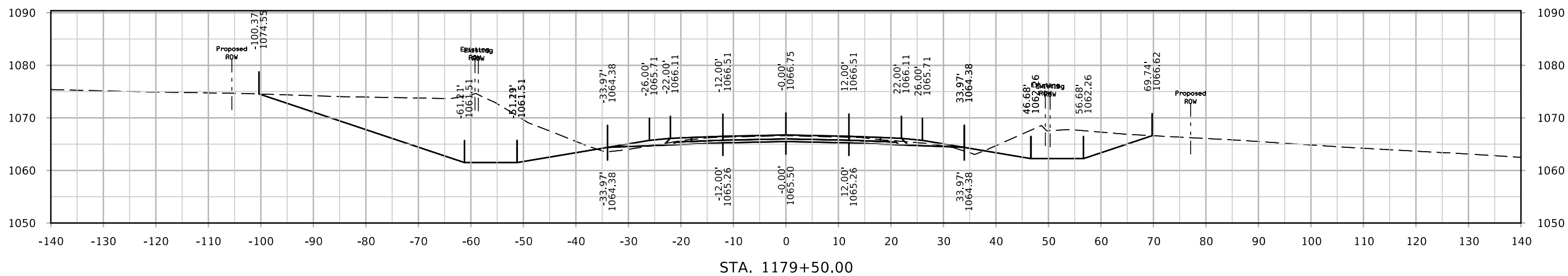
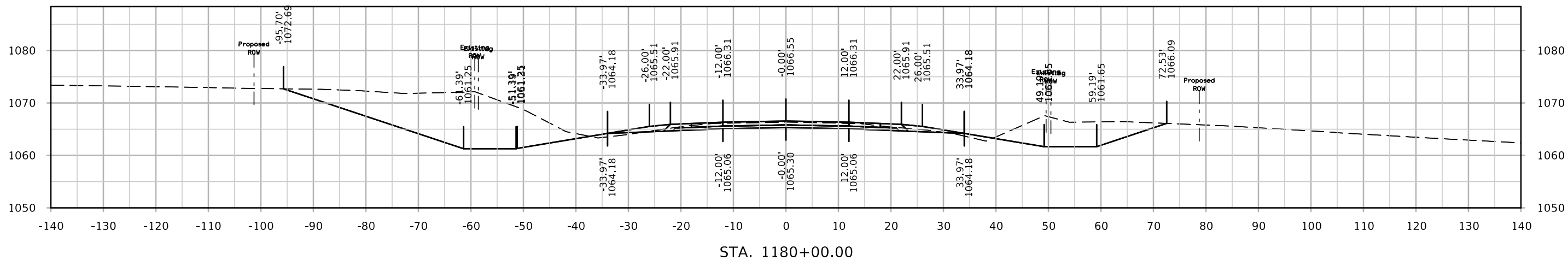
# IA 13

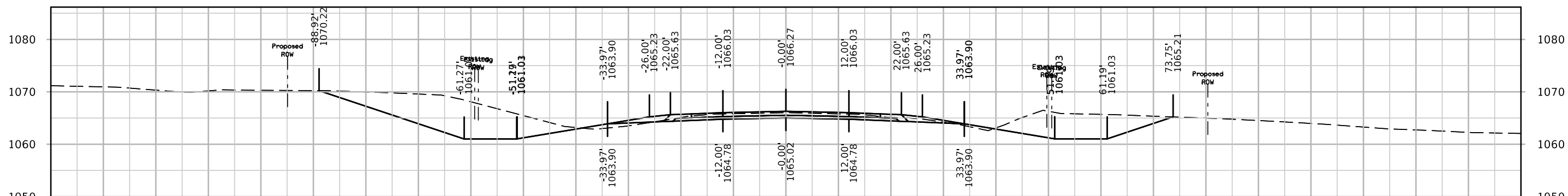
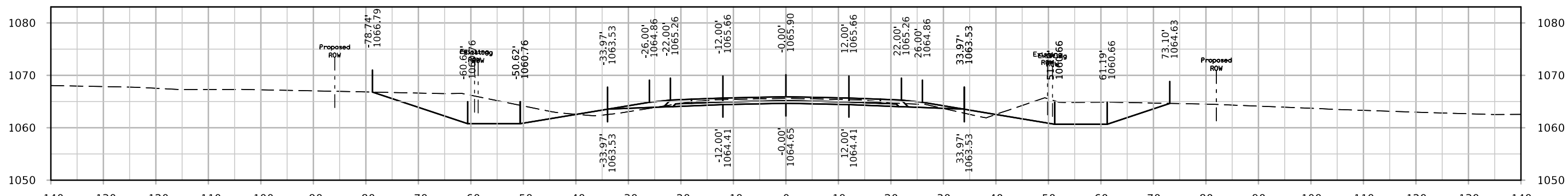
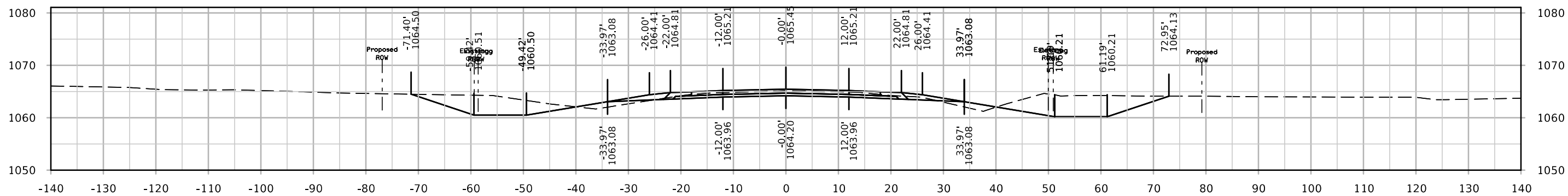


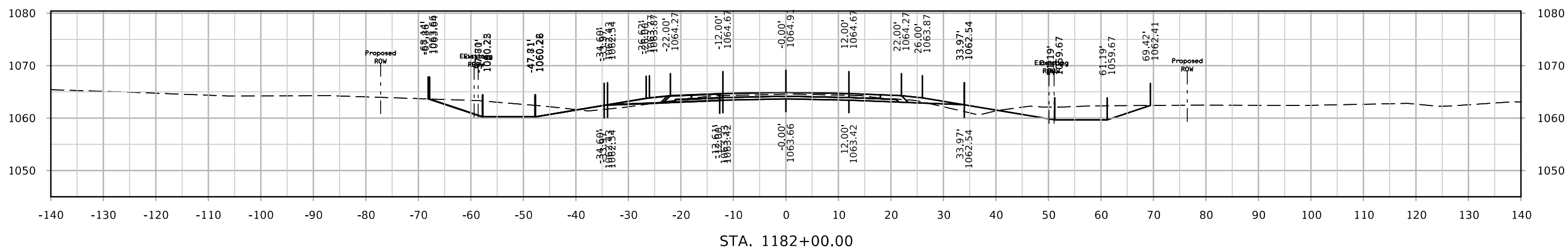
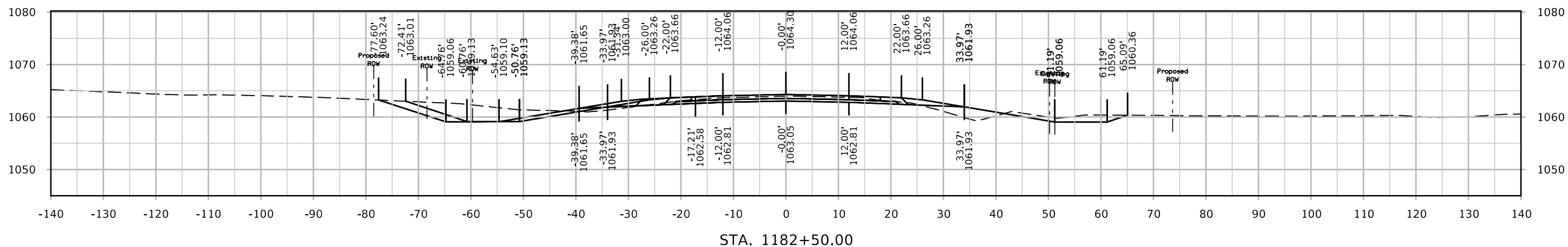
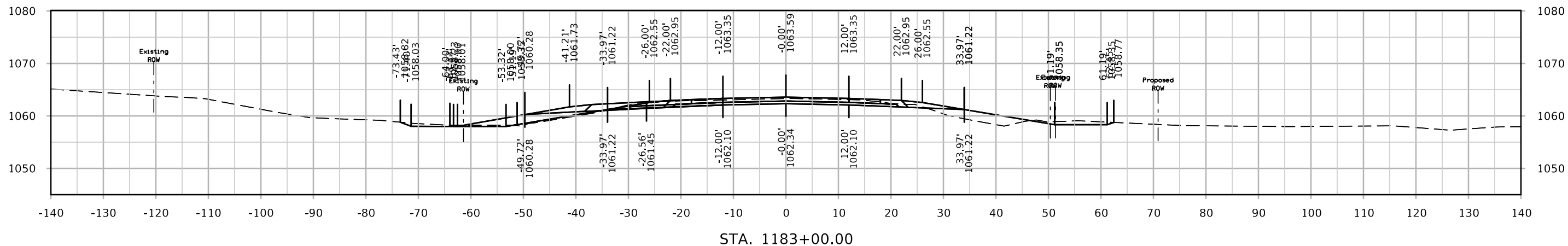


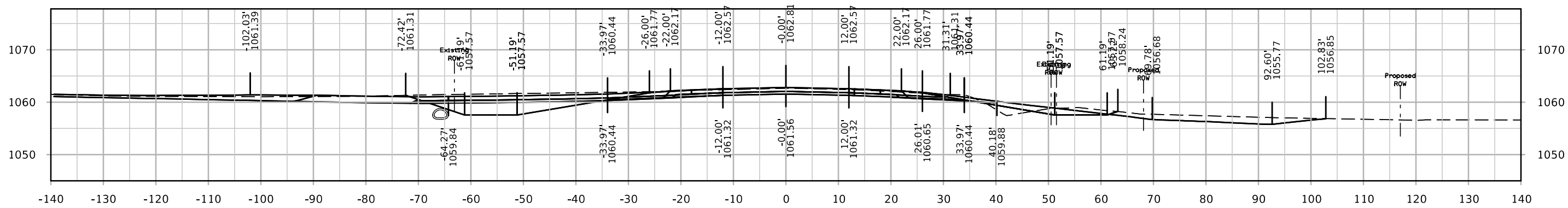
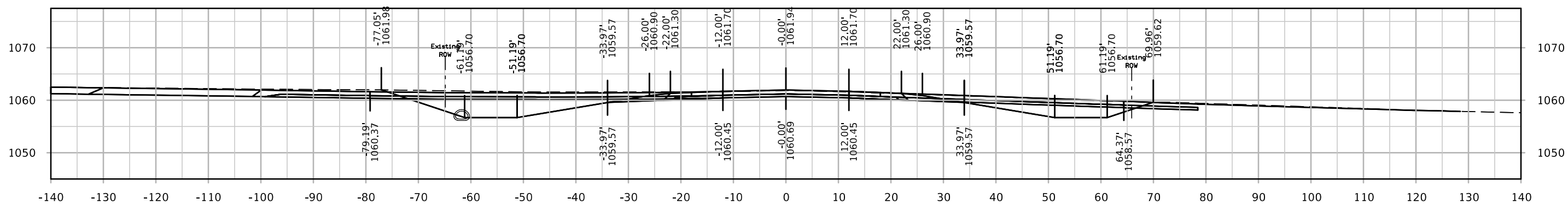
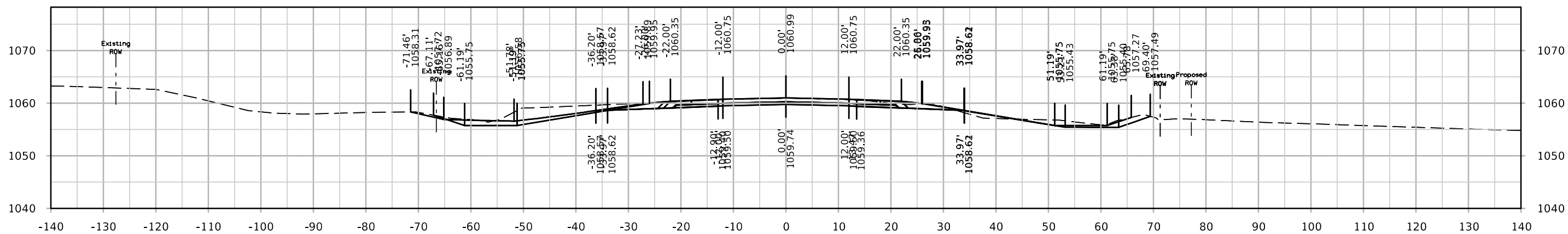


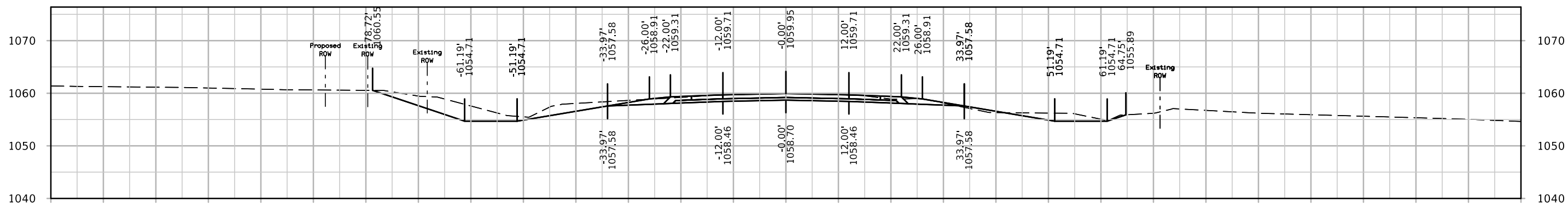
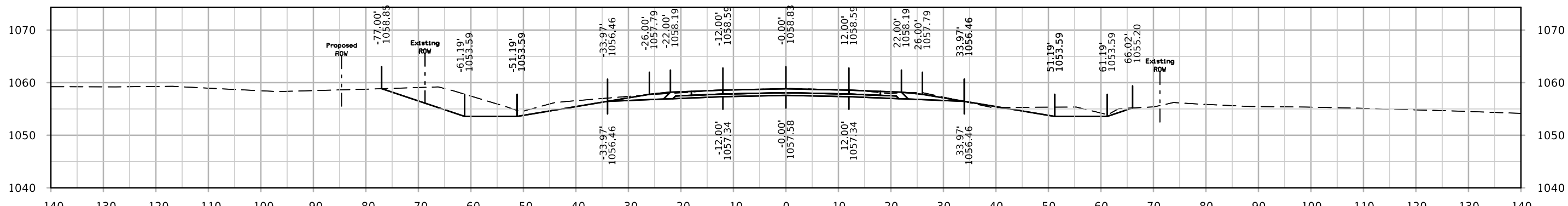
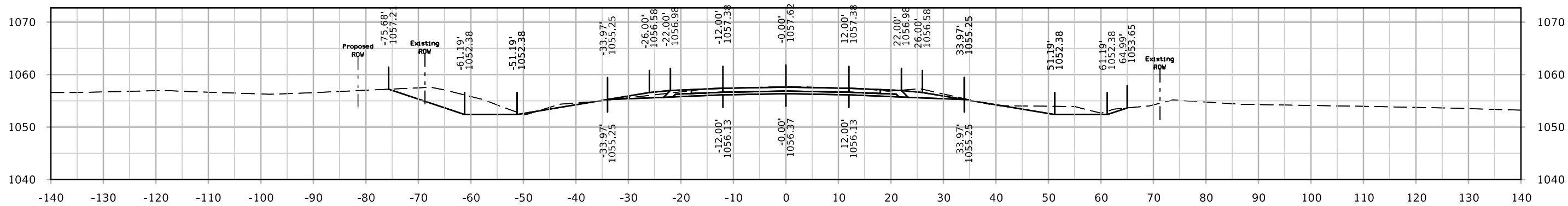


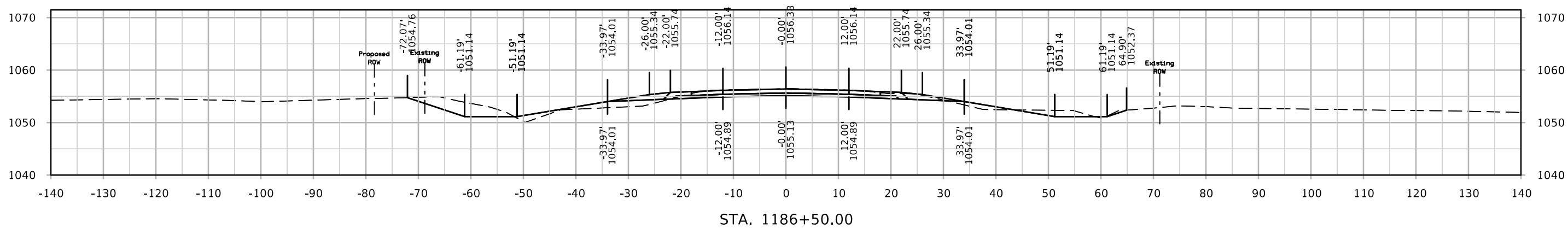
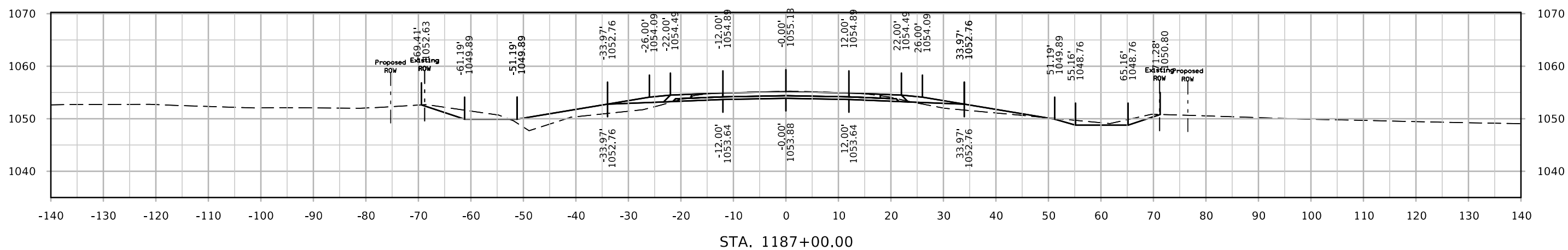
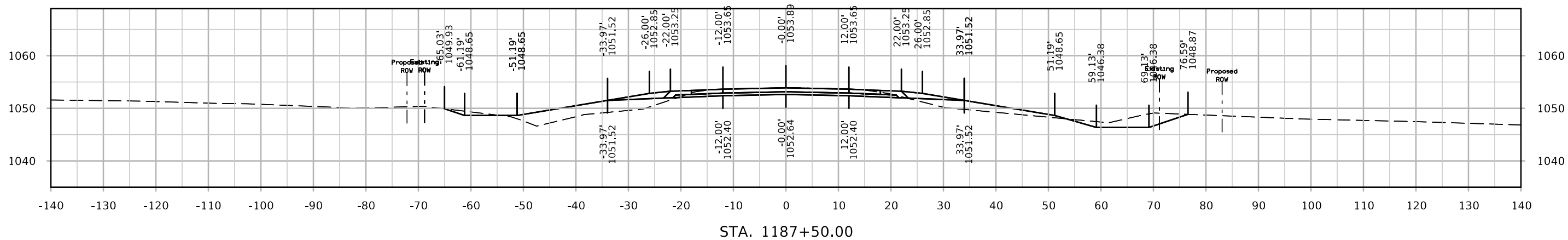




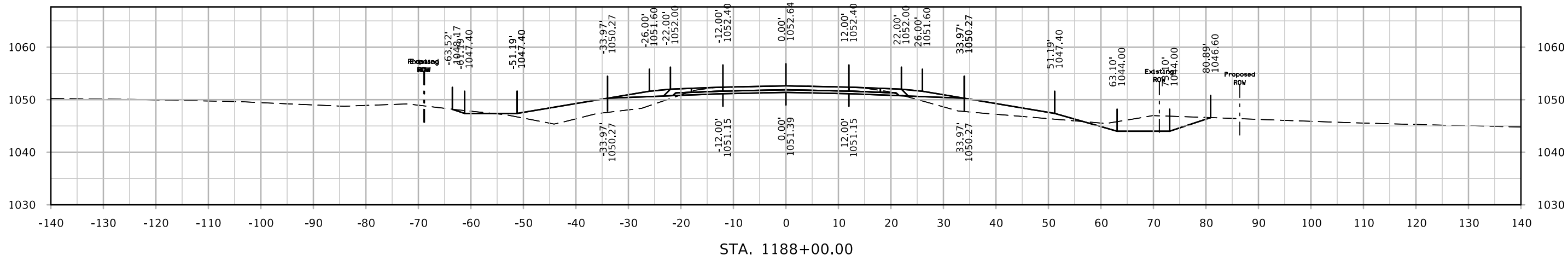
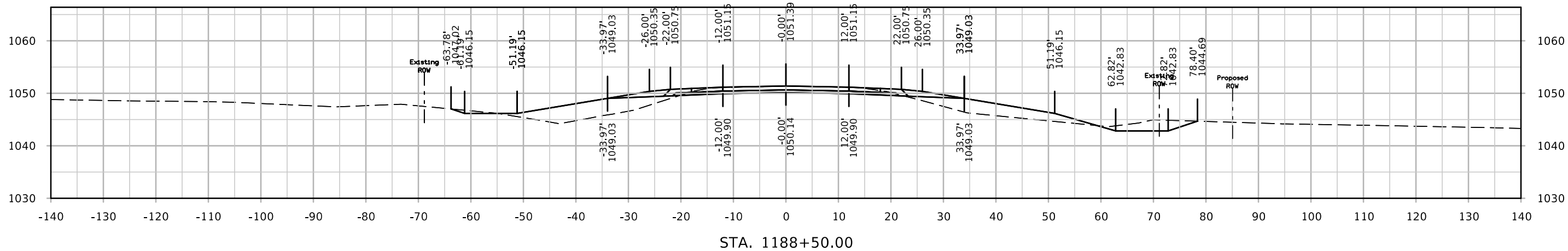
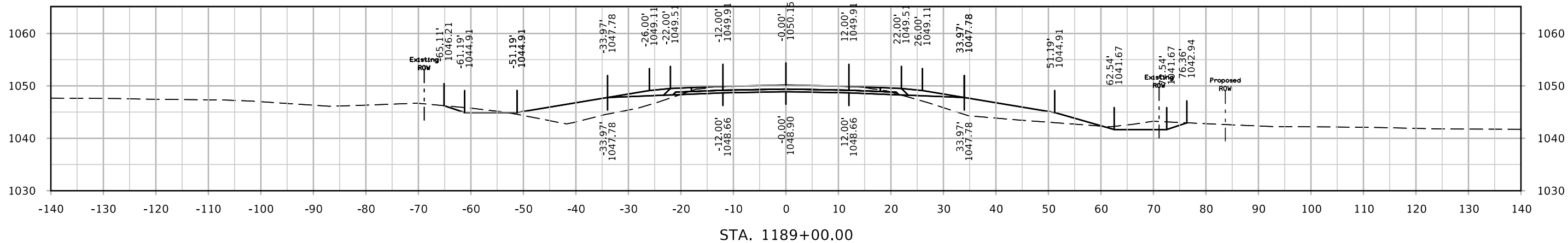


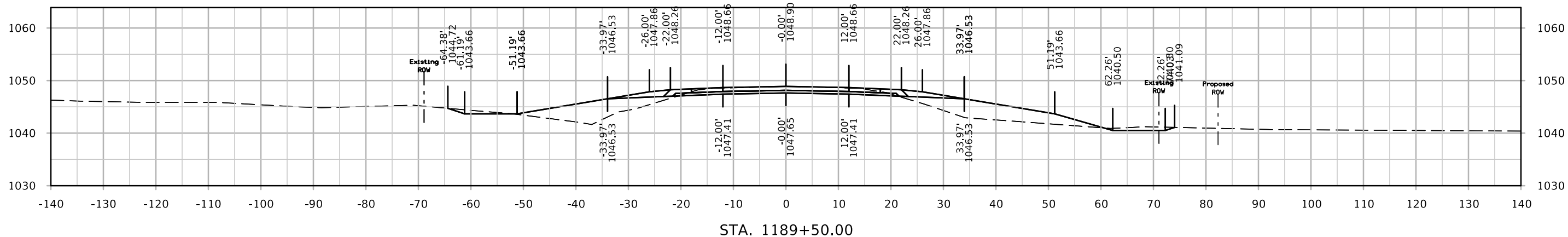
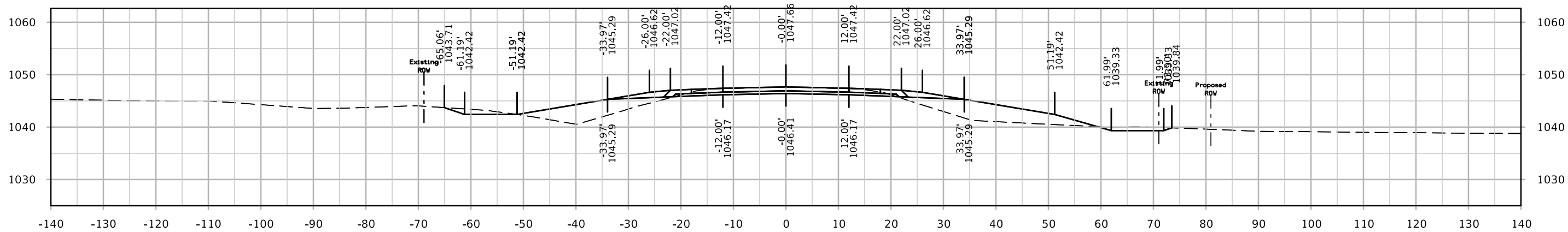
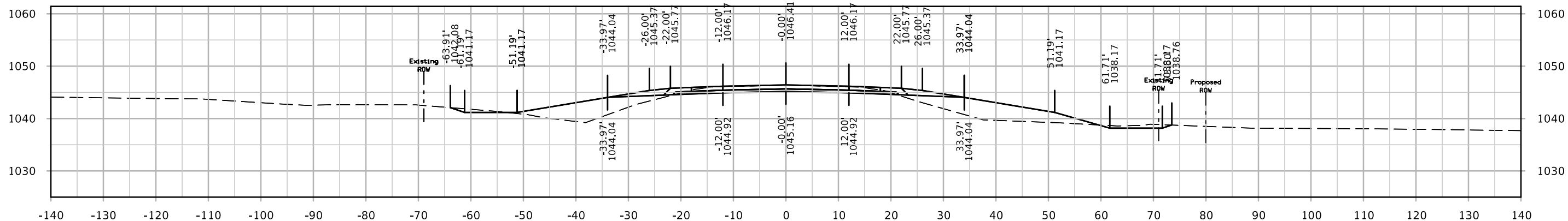


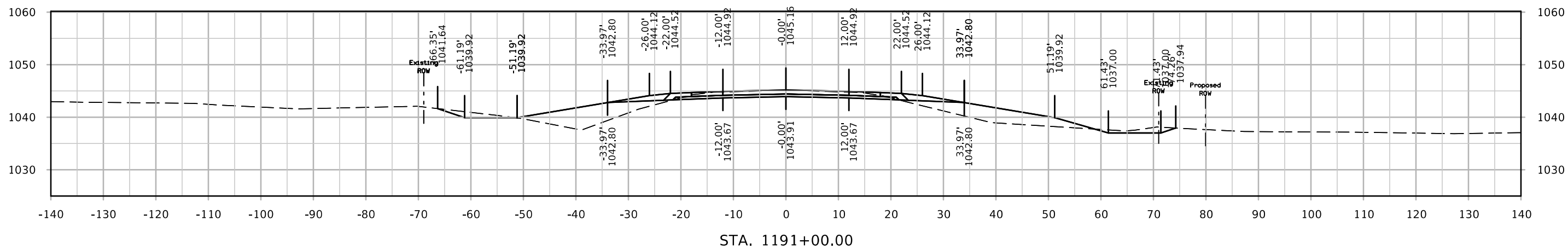
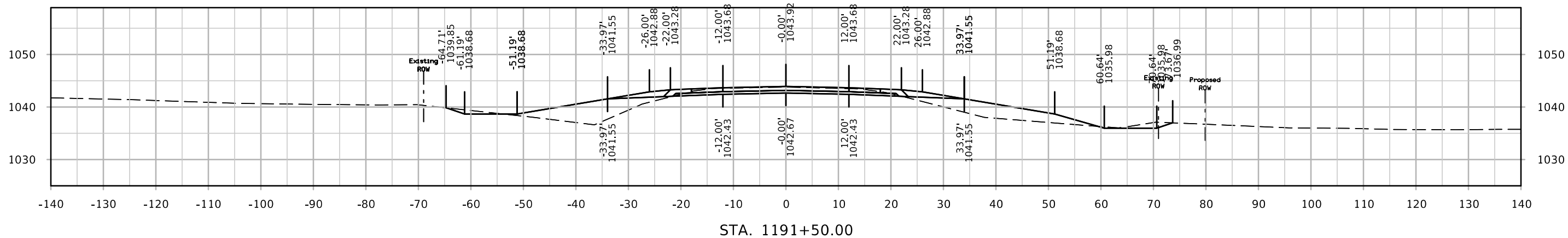
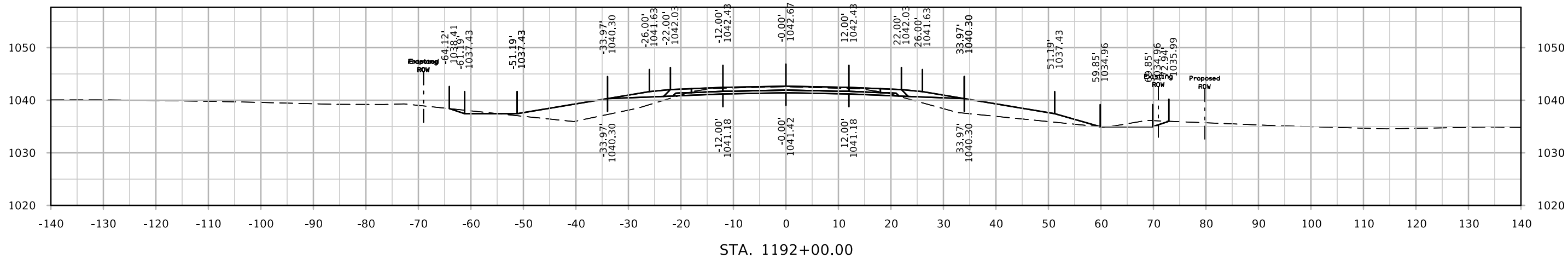


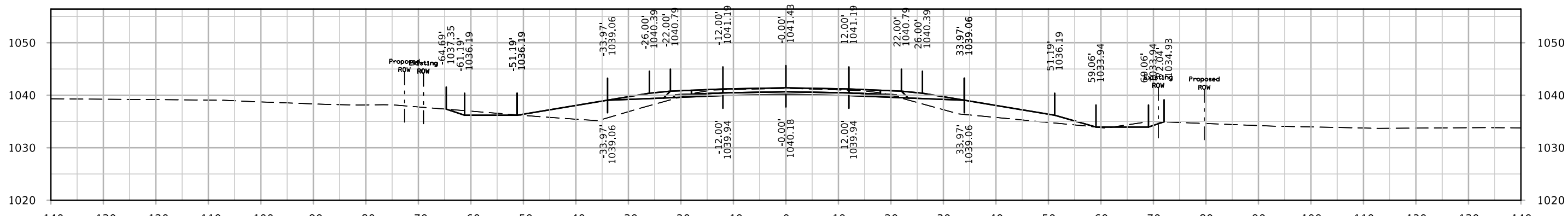
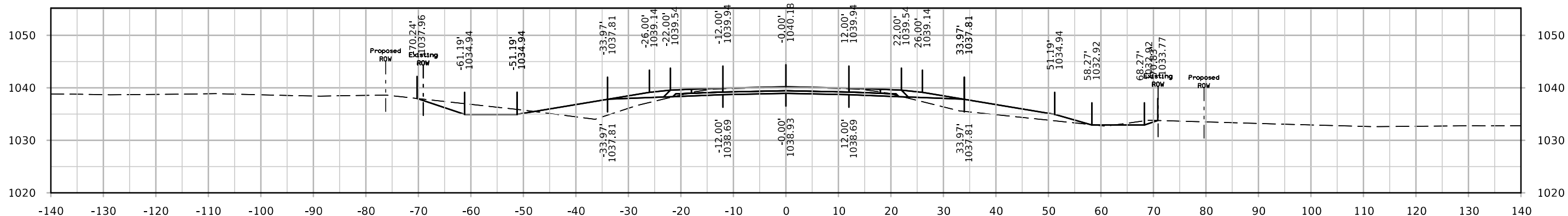
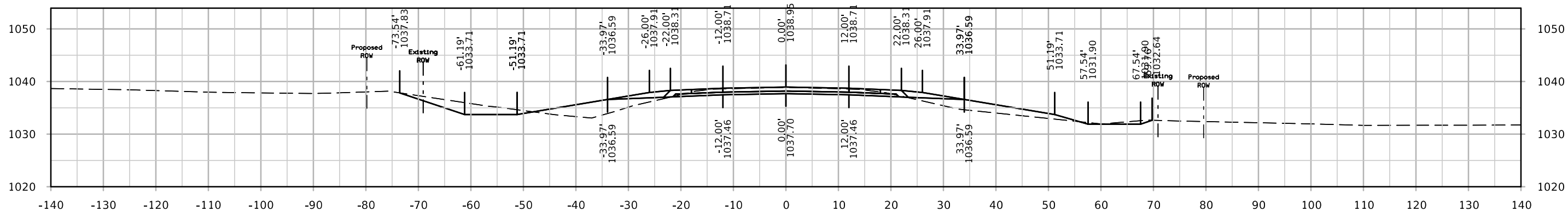


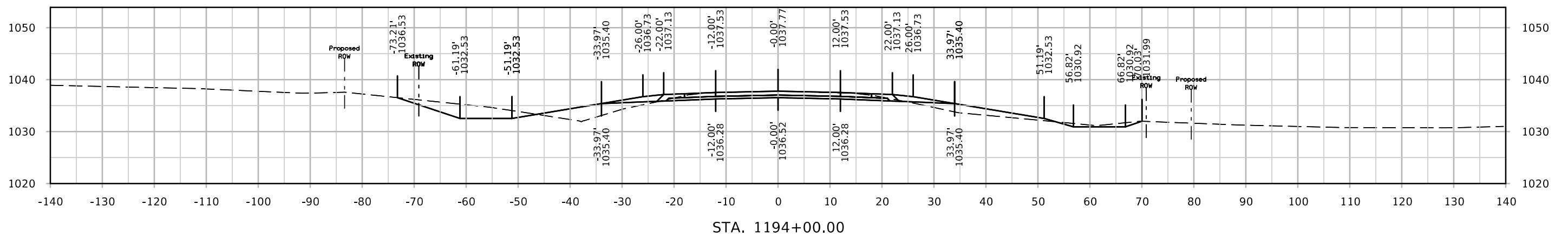
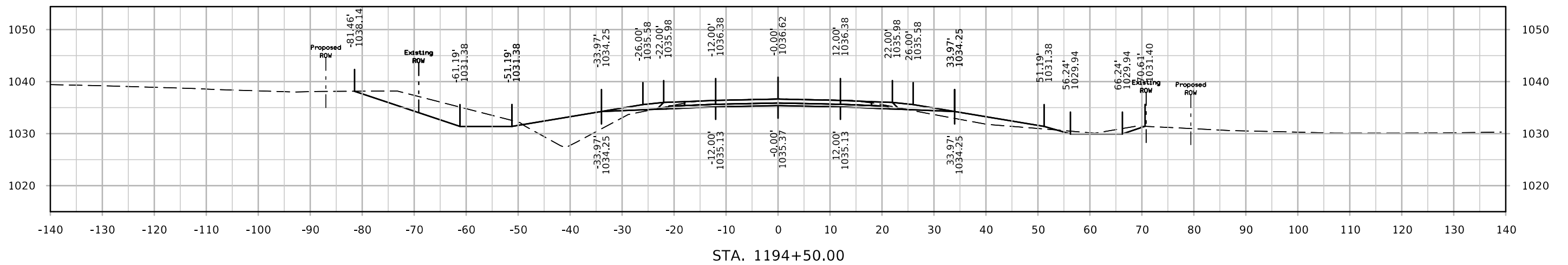
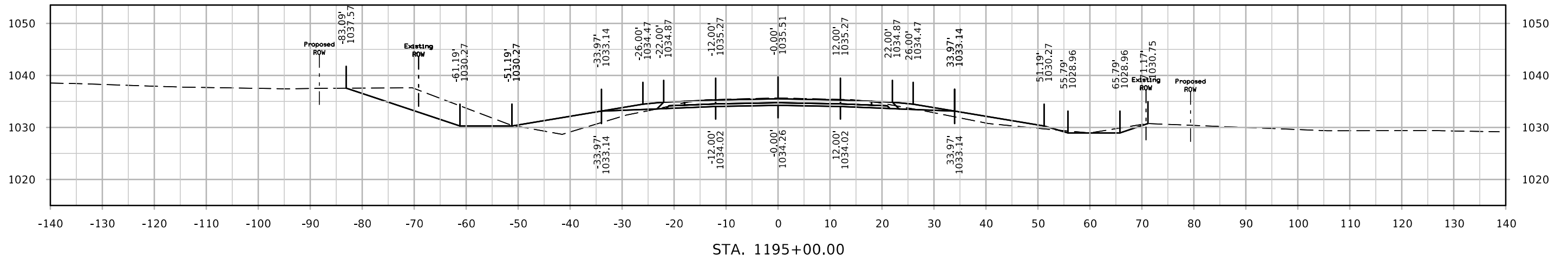


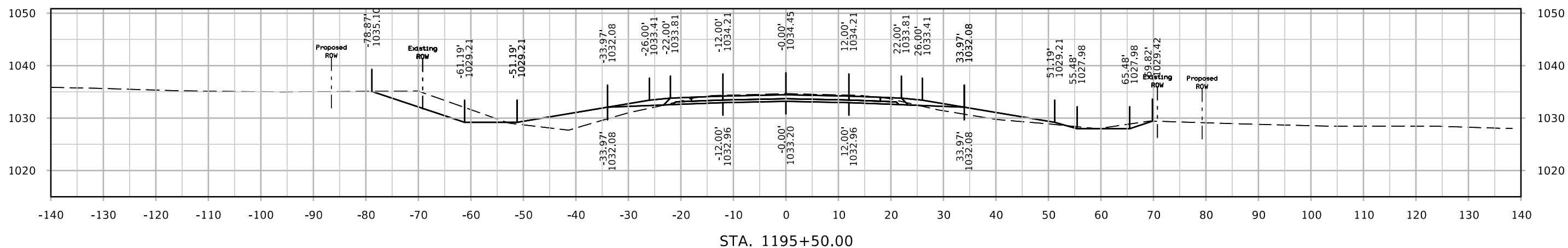
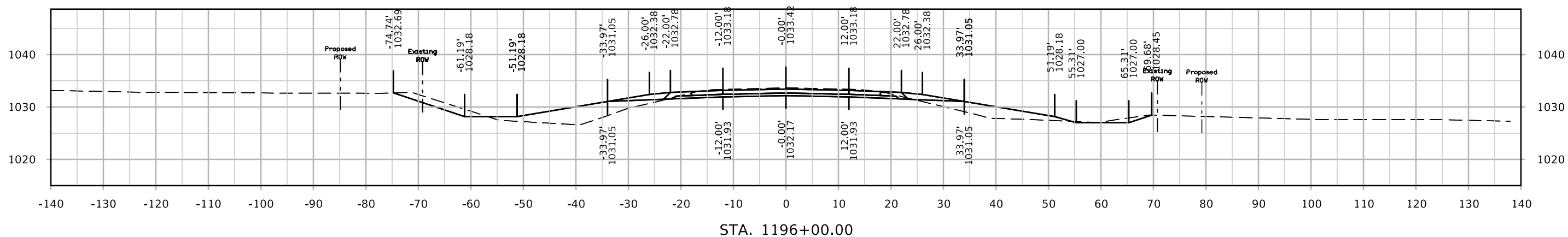
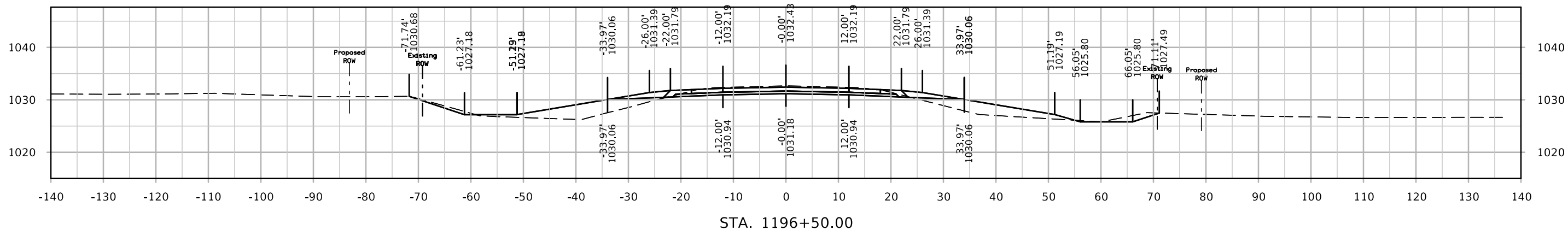


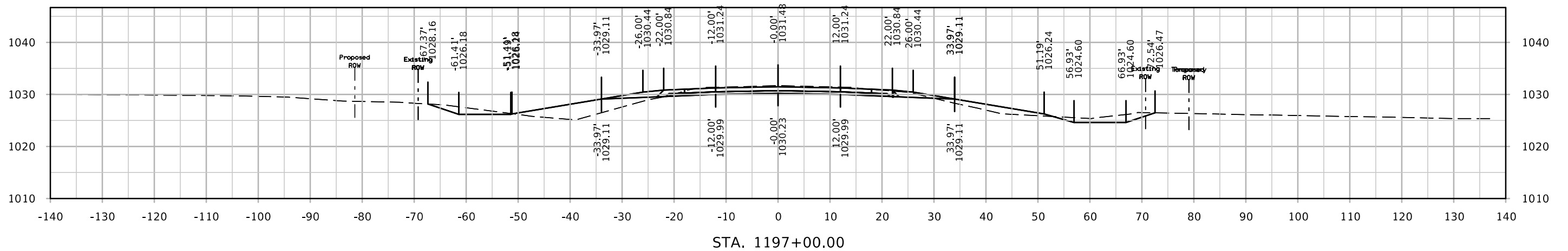
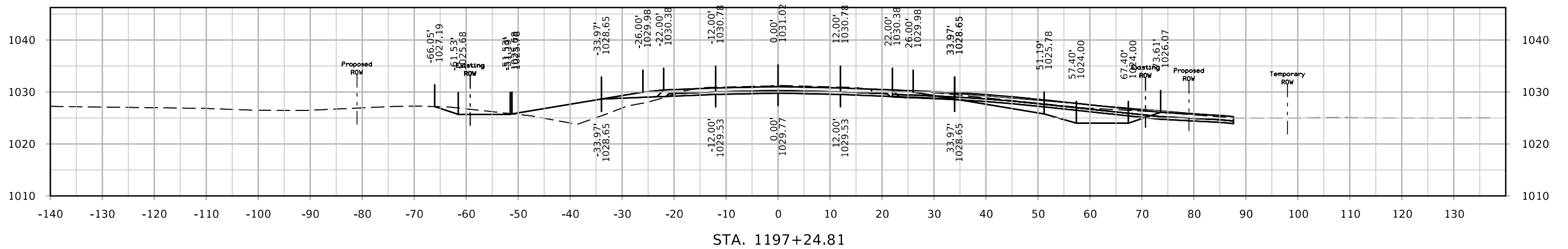
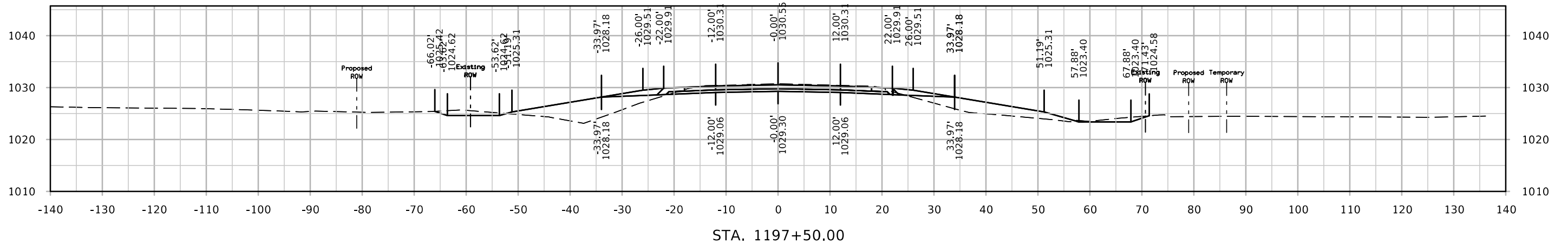


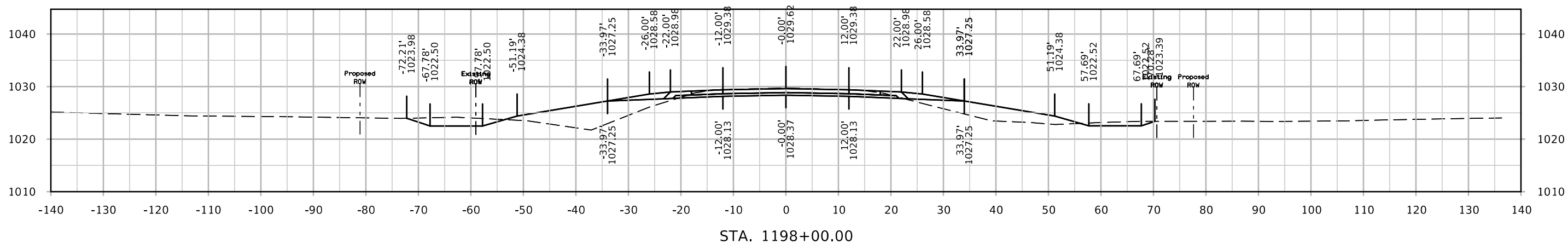
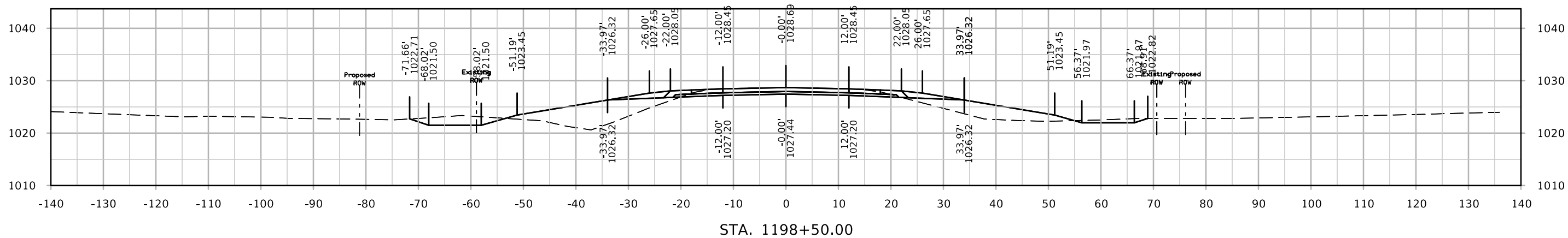
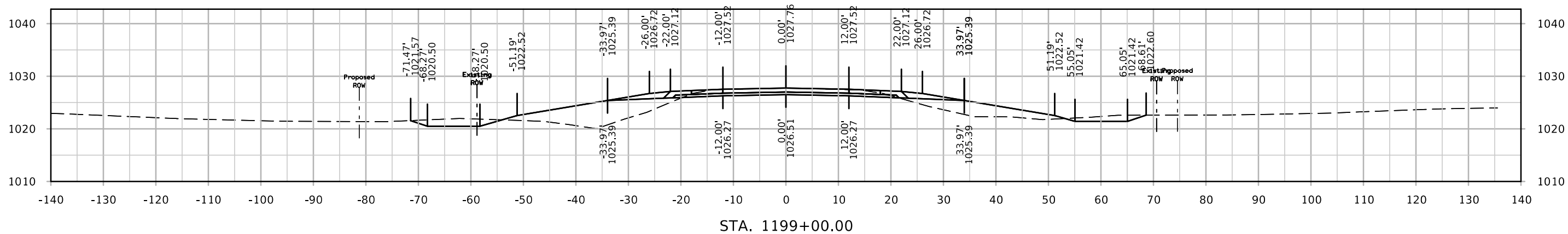




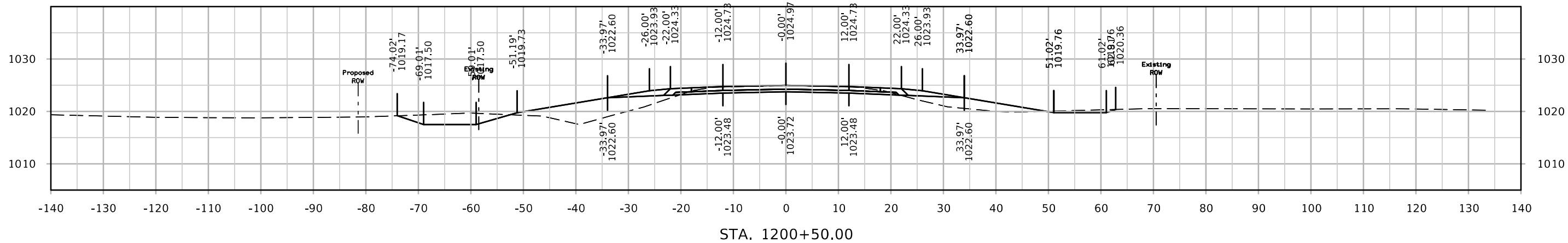




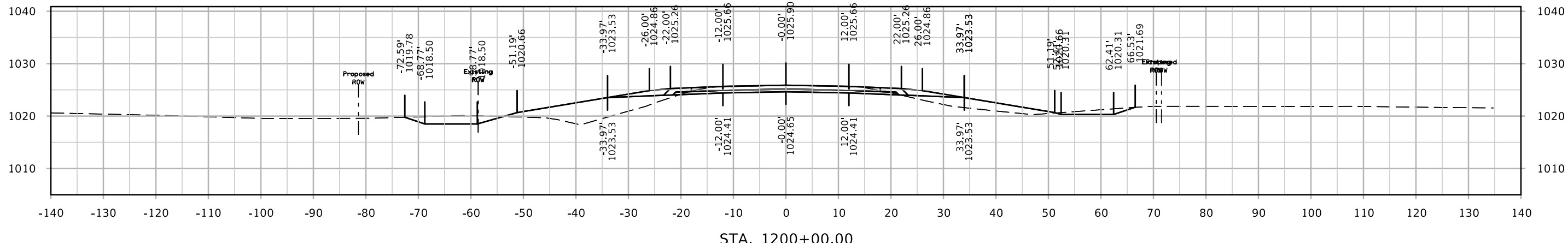




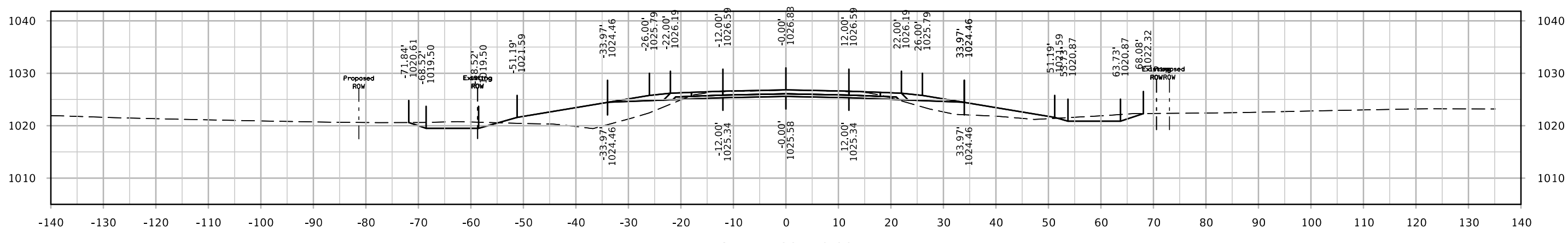




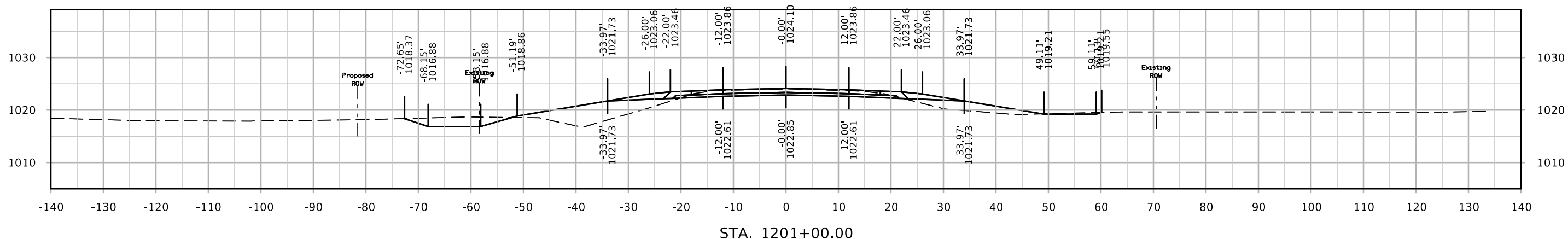
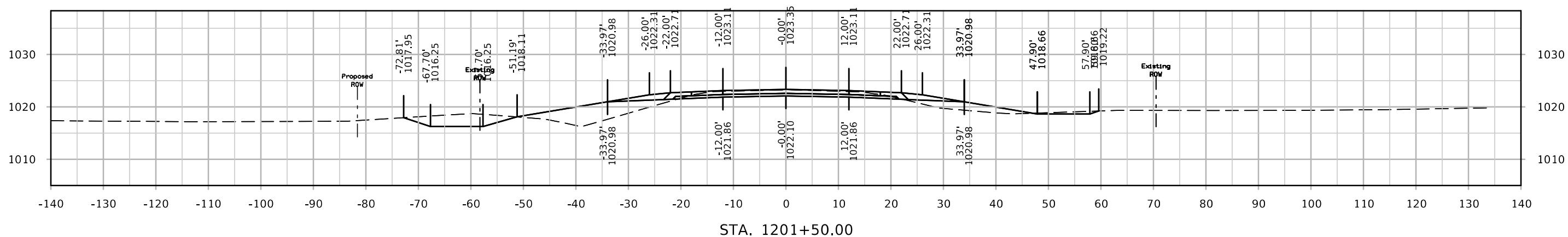
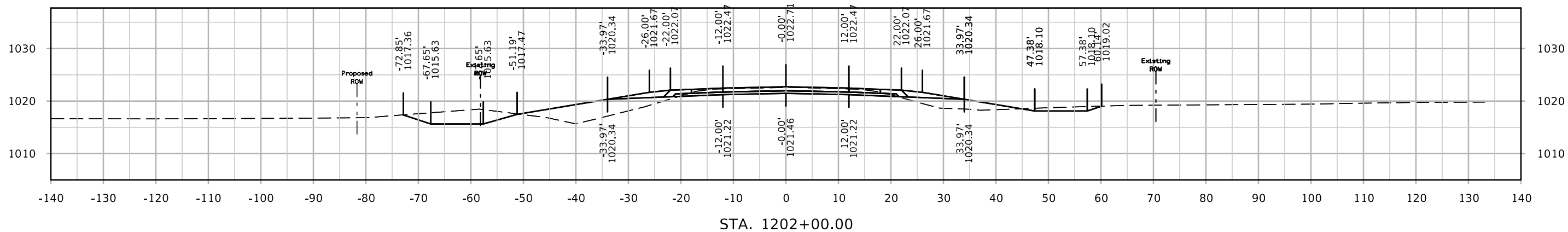
STA. 1200+50.00

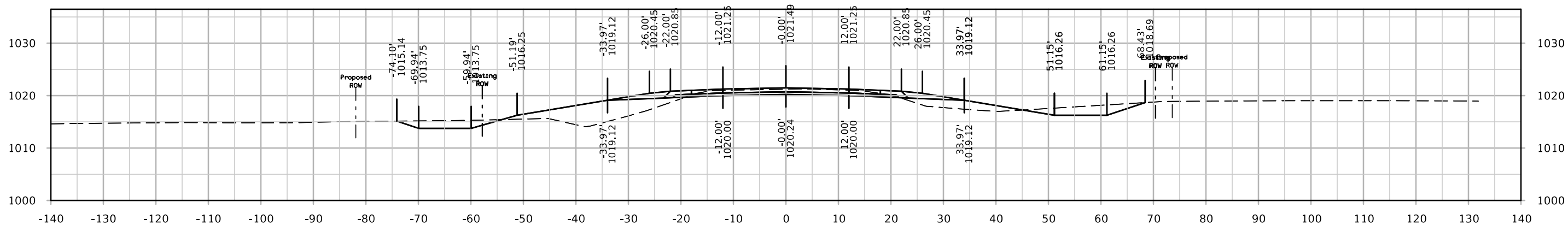


STA. 1200+00.00

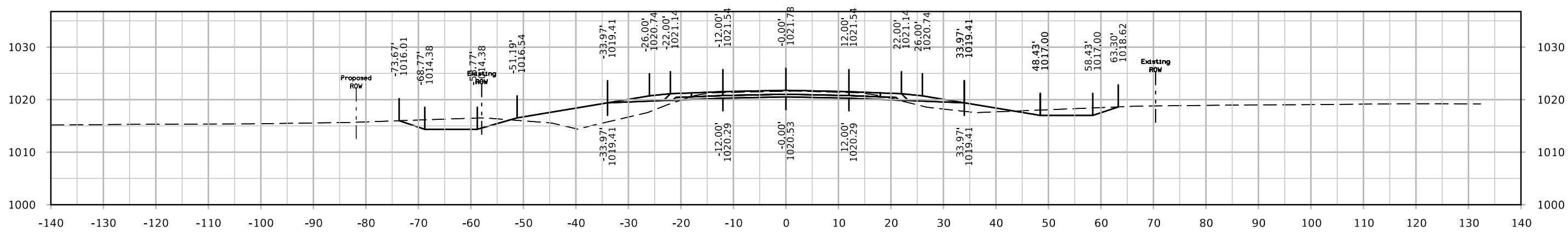


STA. 1199+50.00

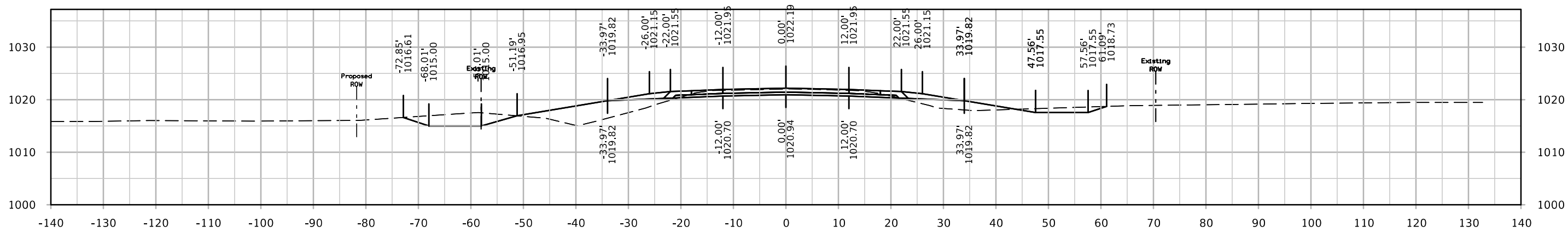




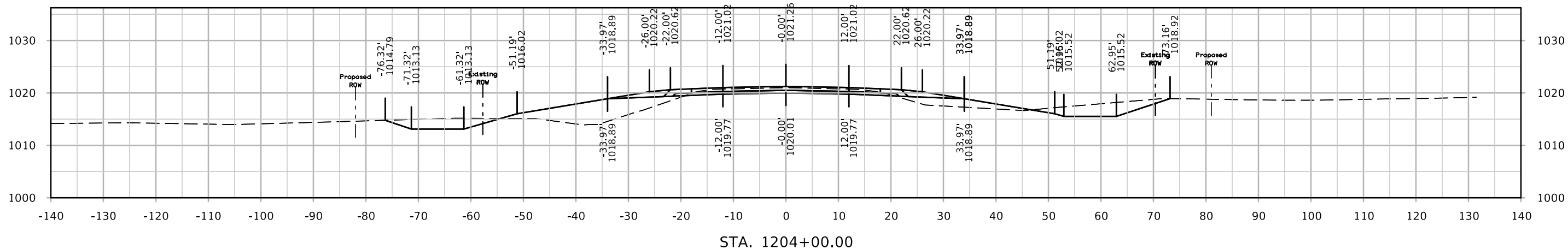
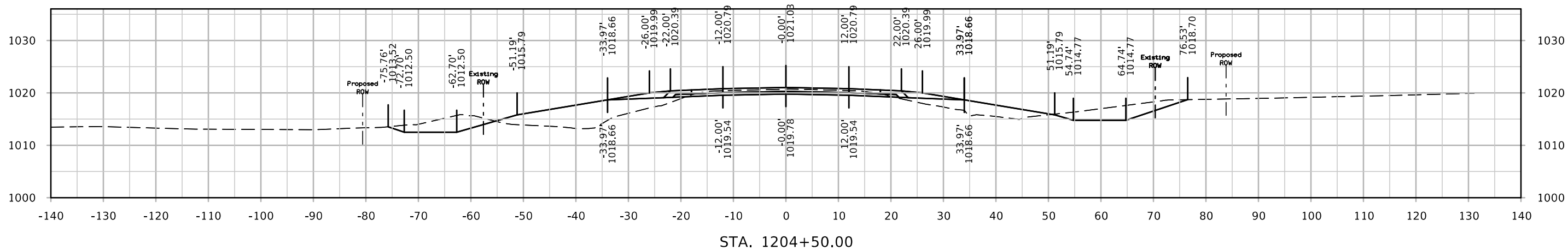
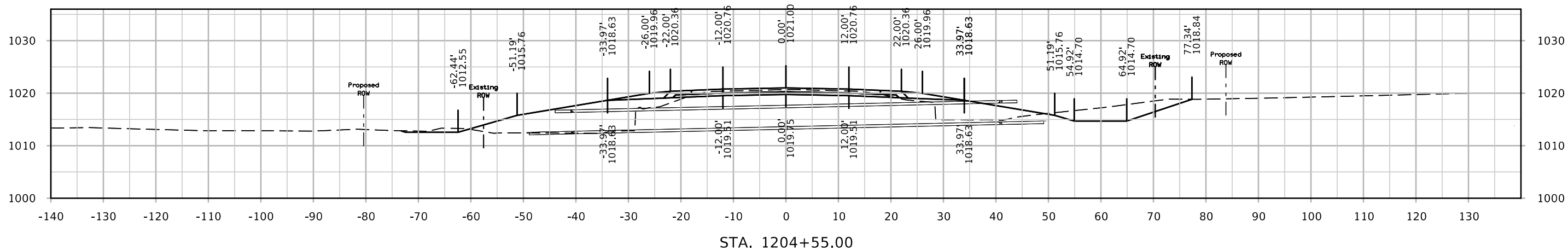
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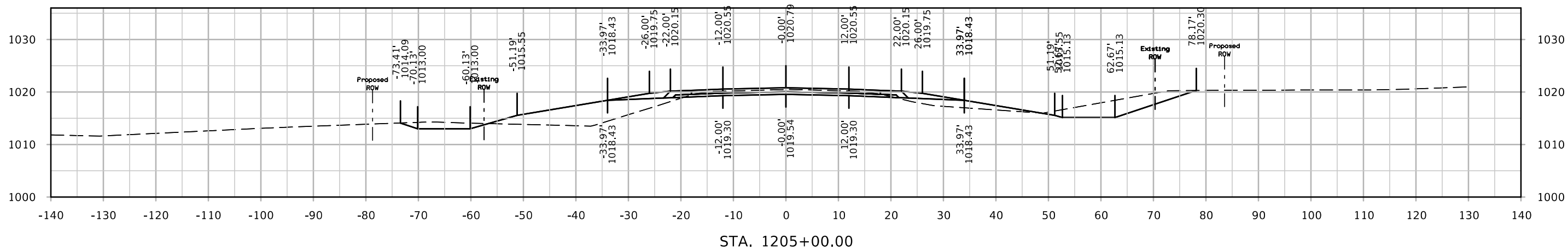
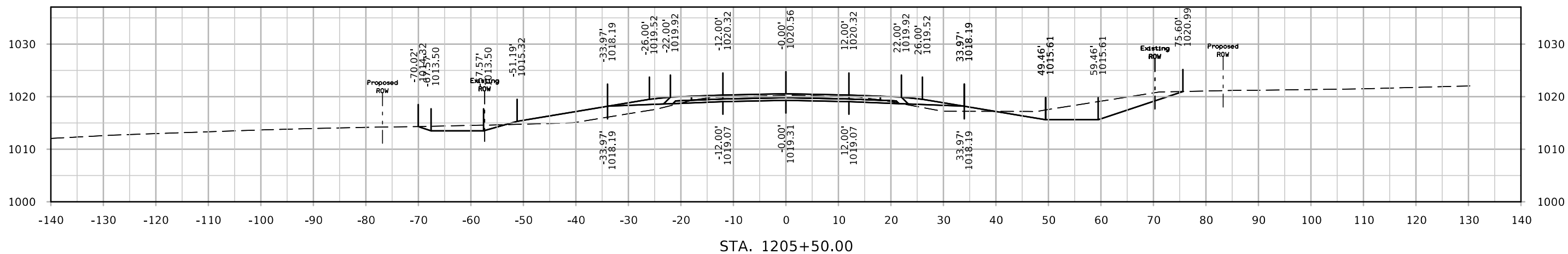
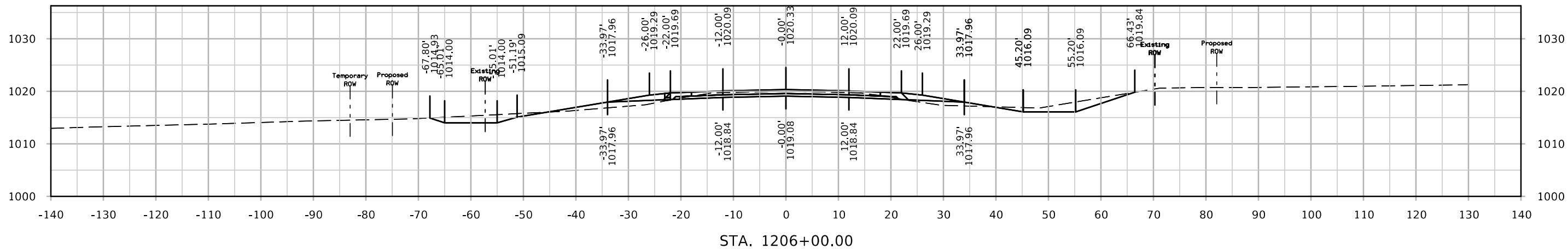


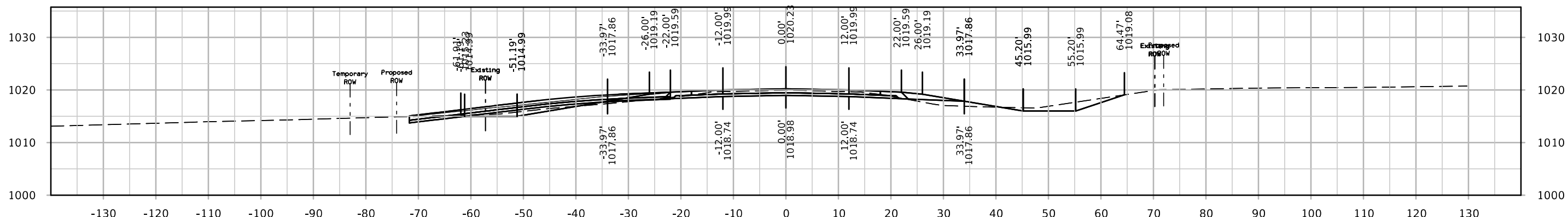
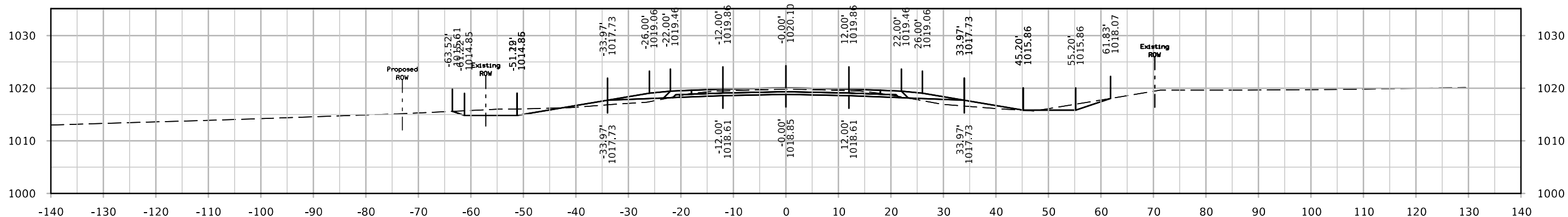
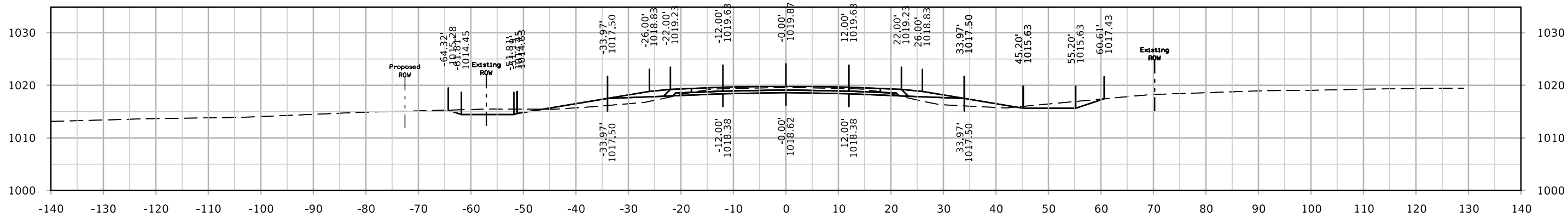
STA. 1203+00.00

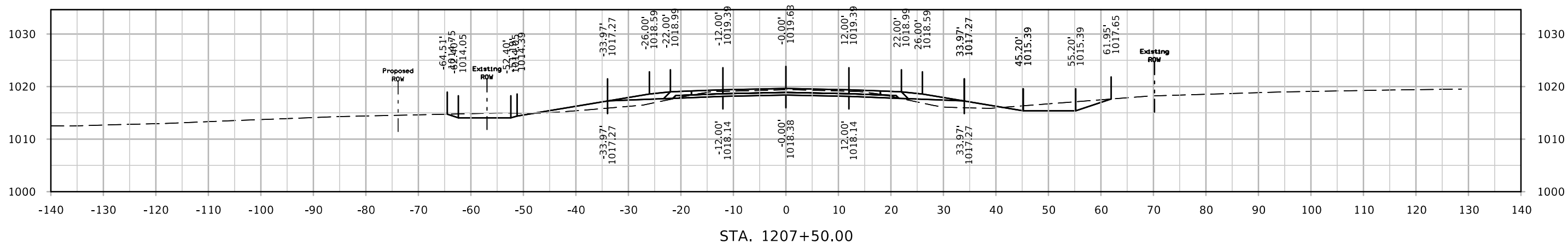
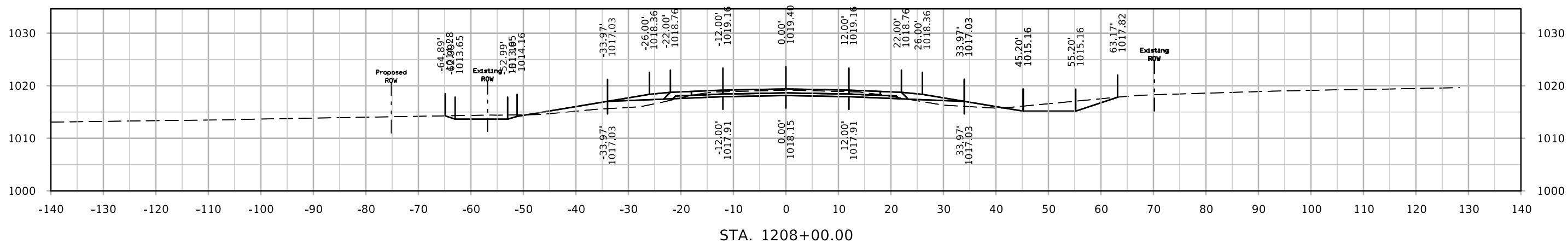
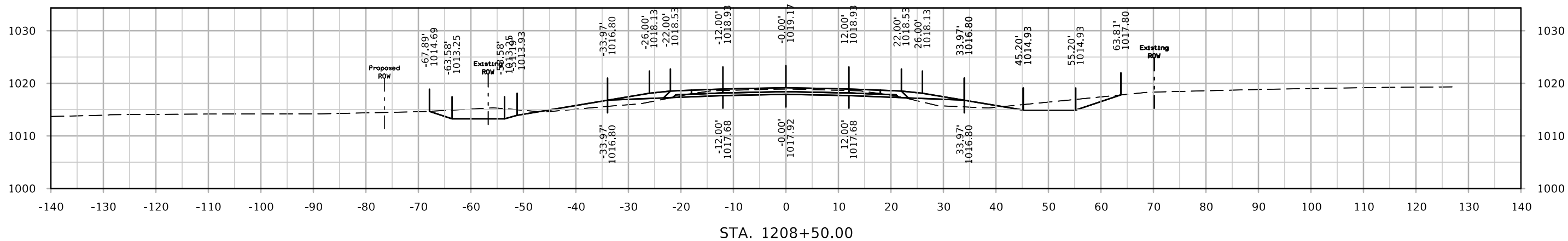


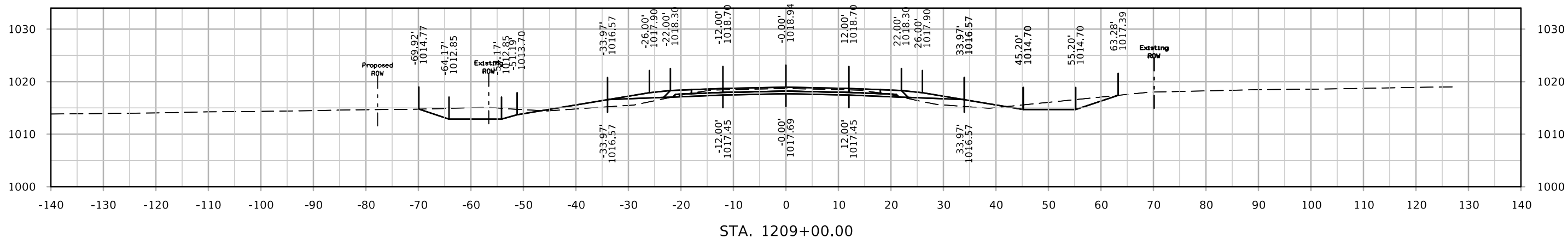
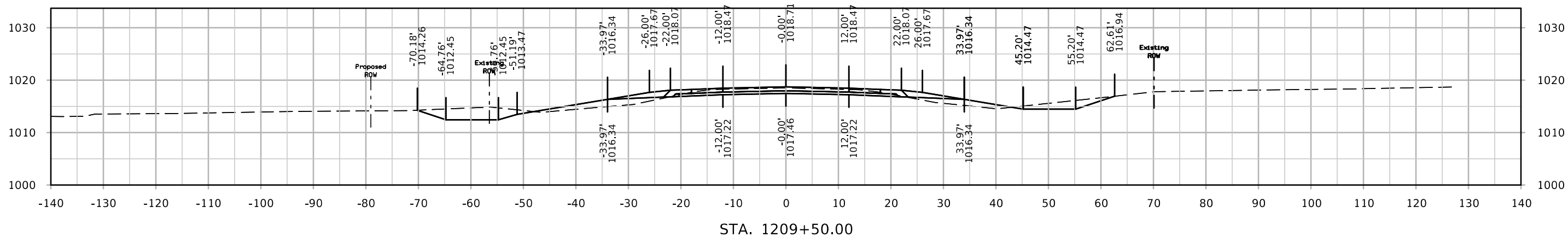
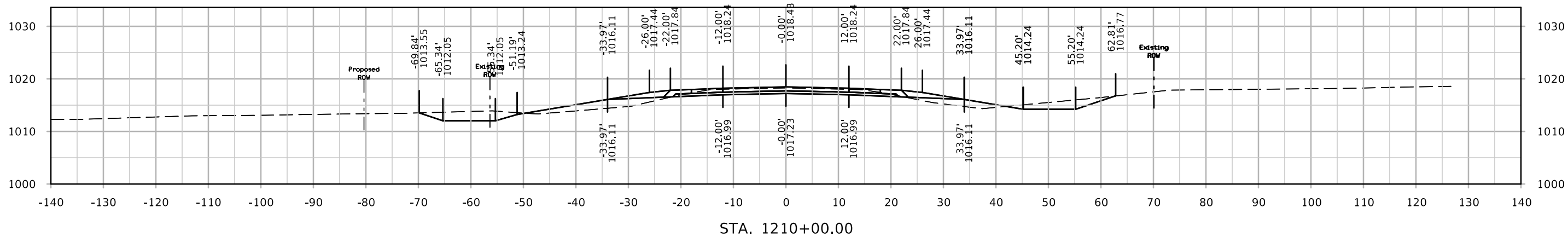
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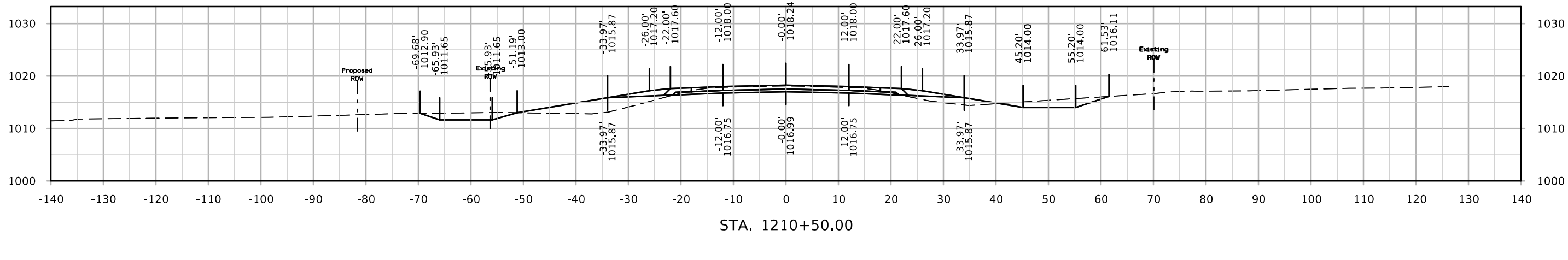
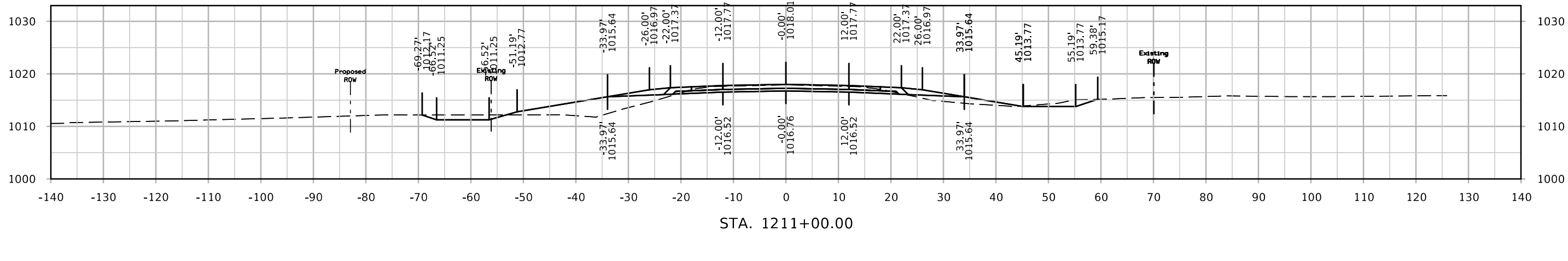
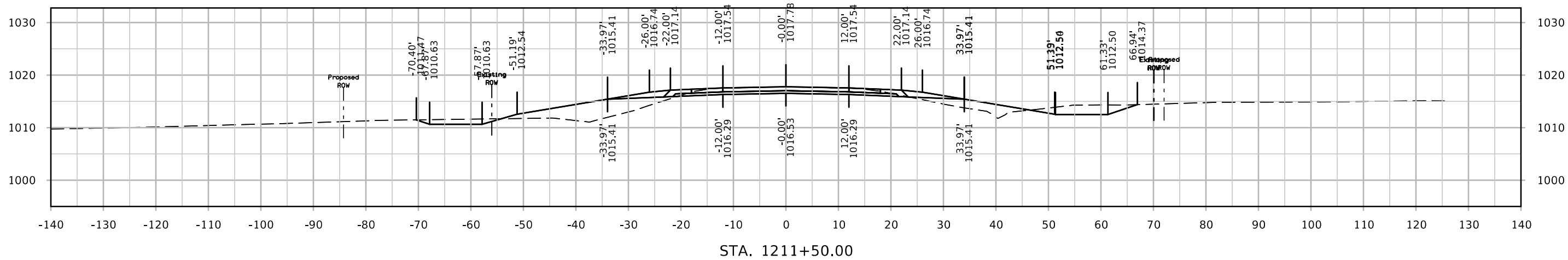


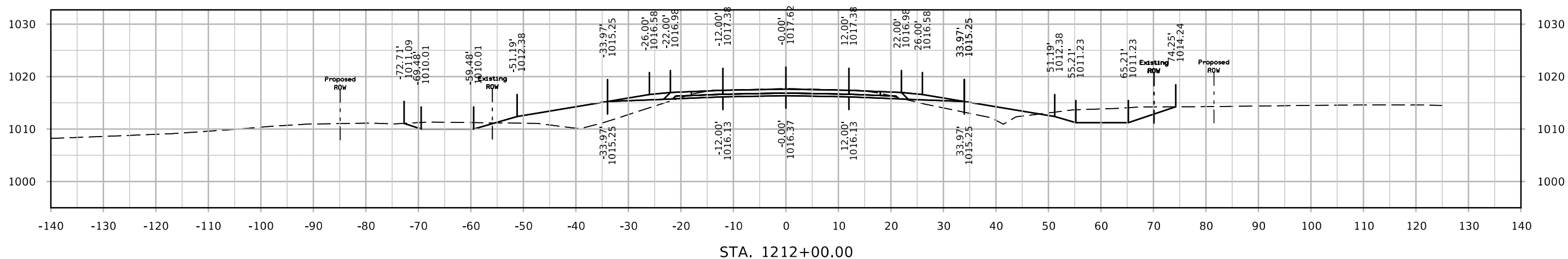
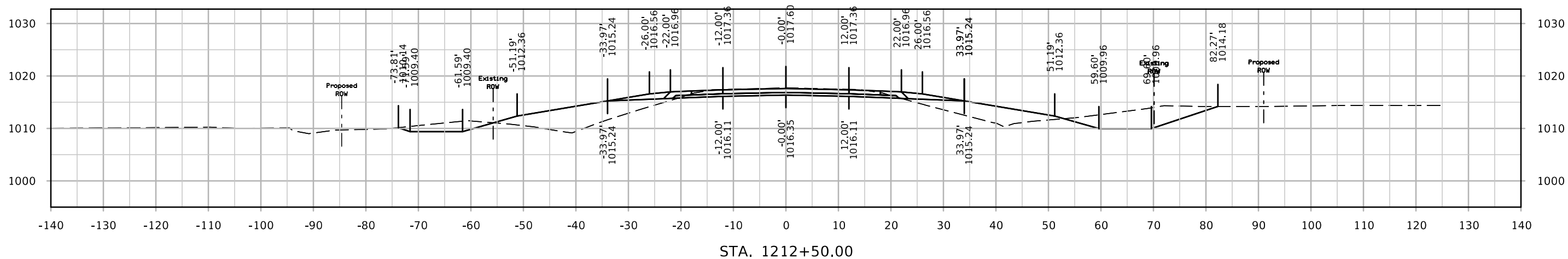
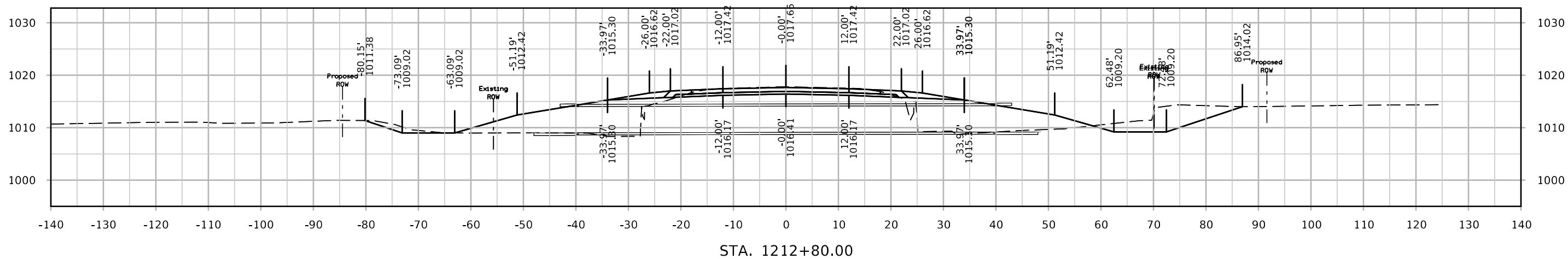


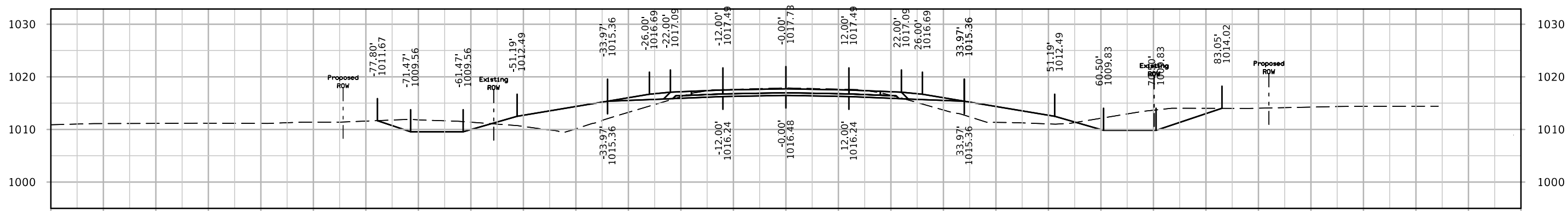
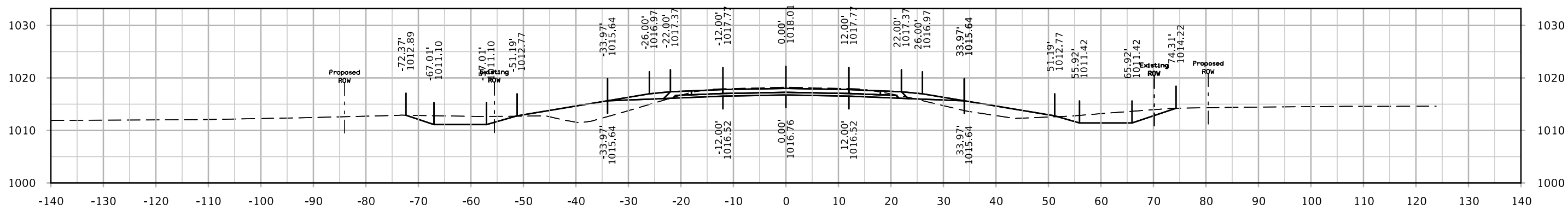
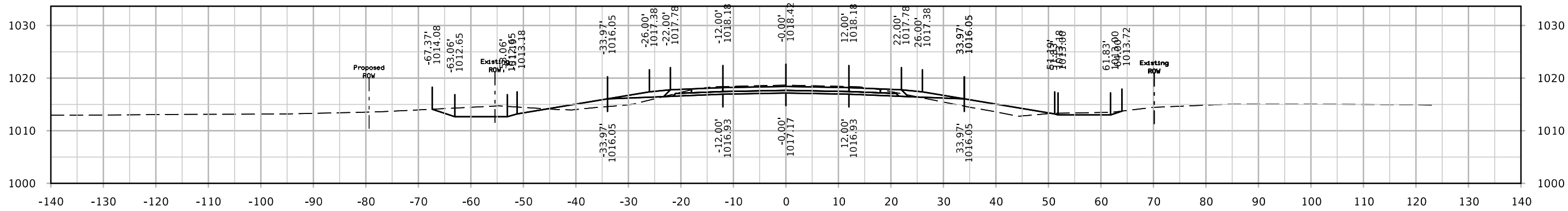


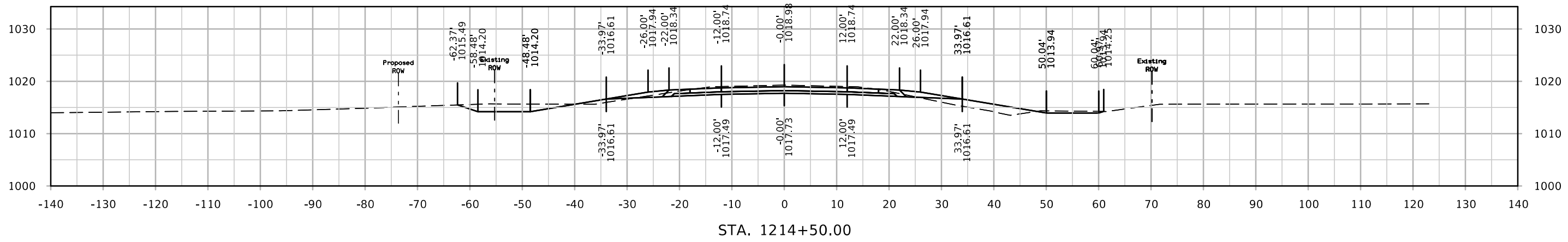
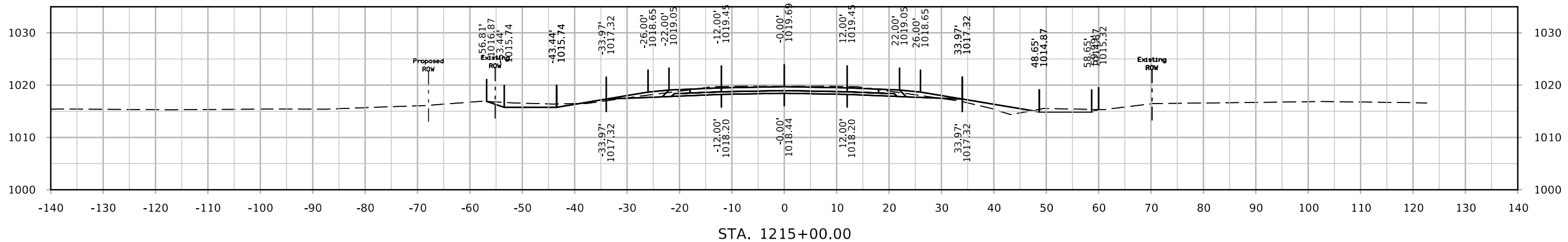
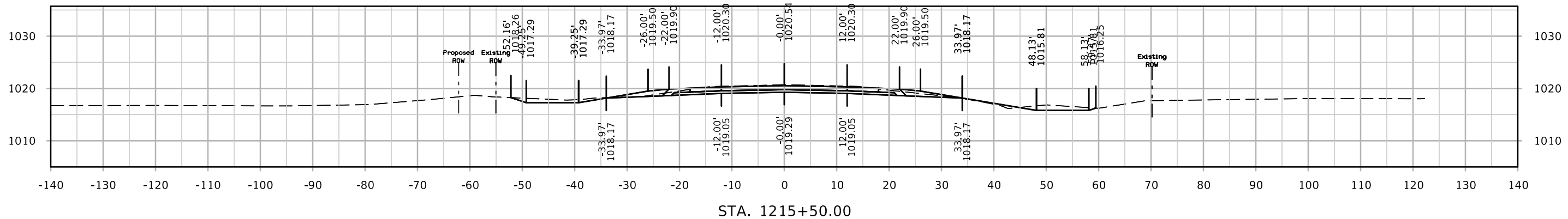


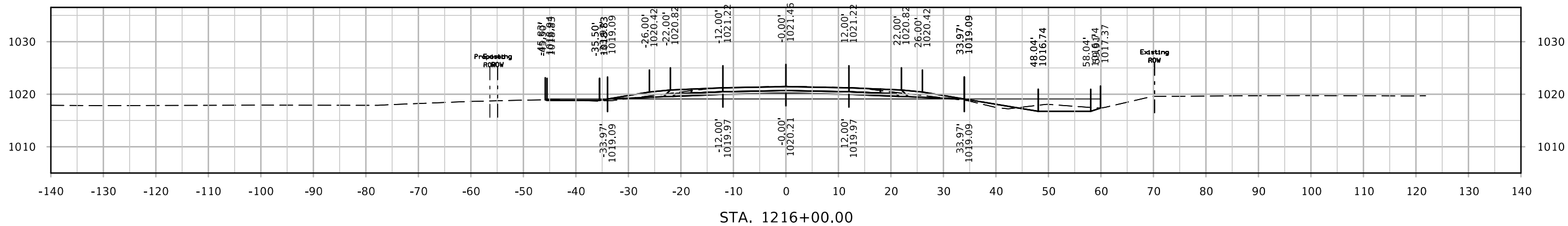
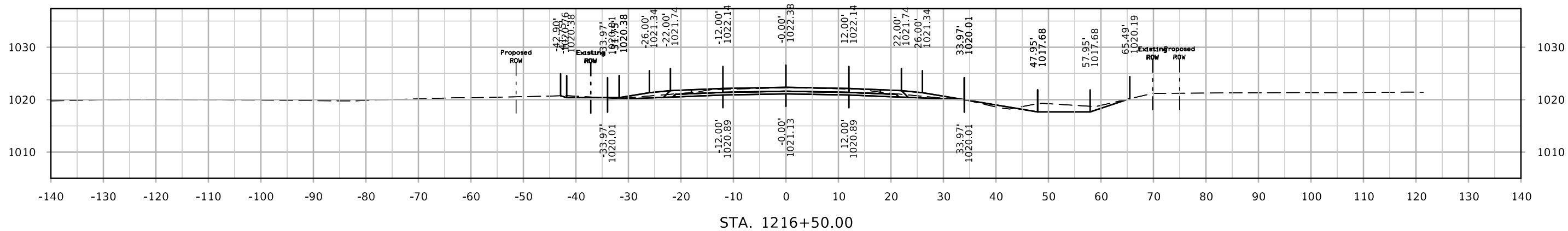
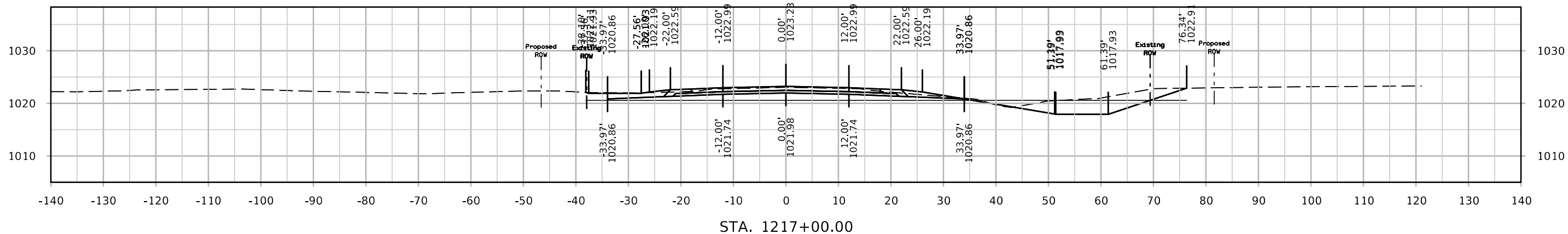


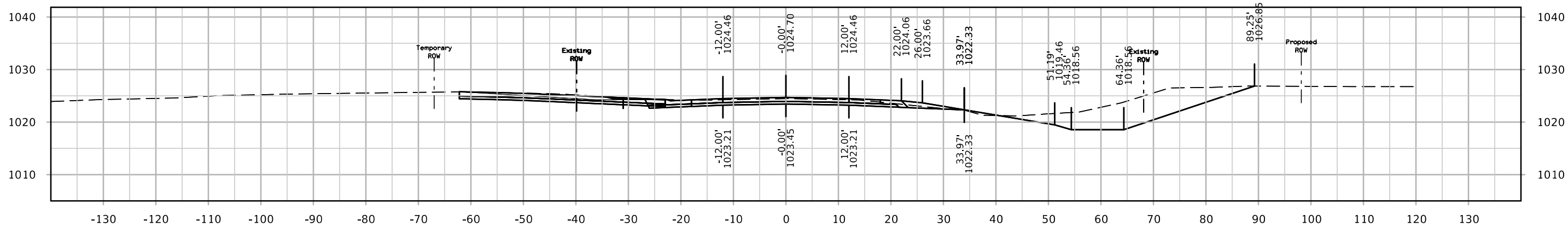




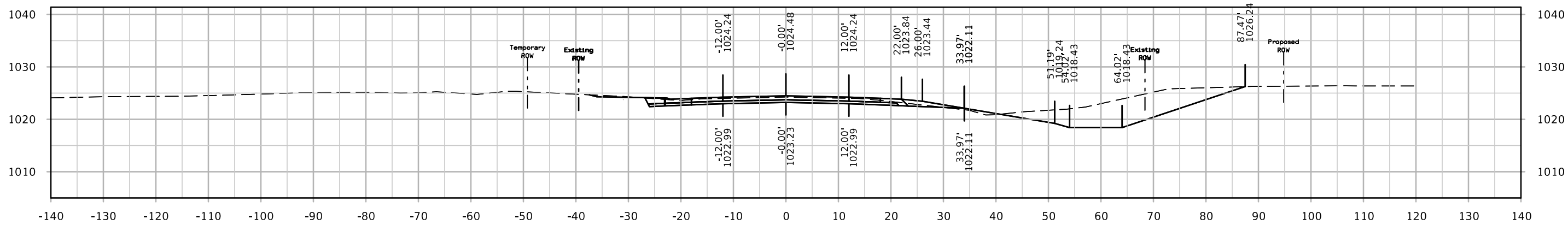




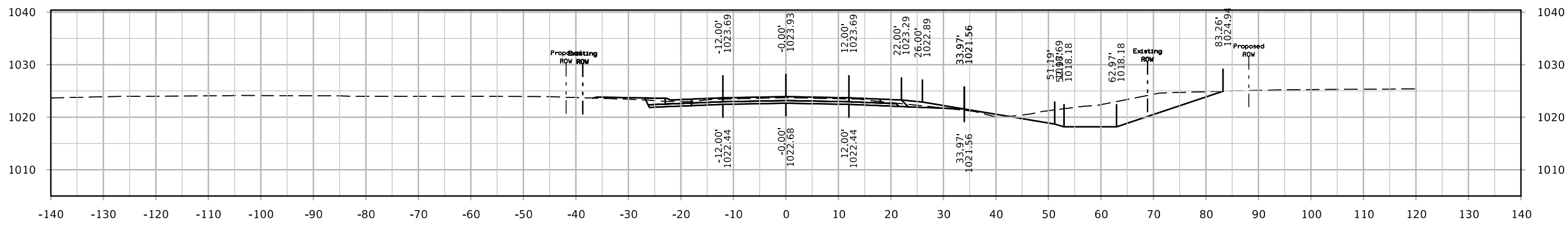




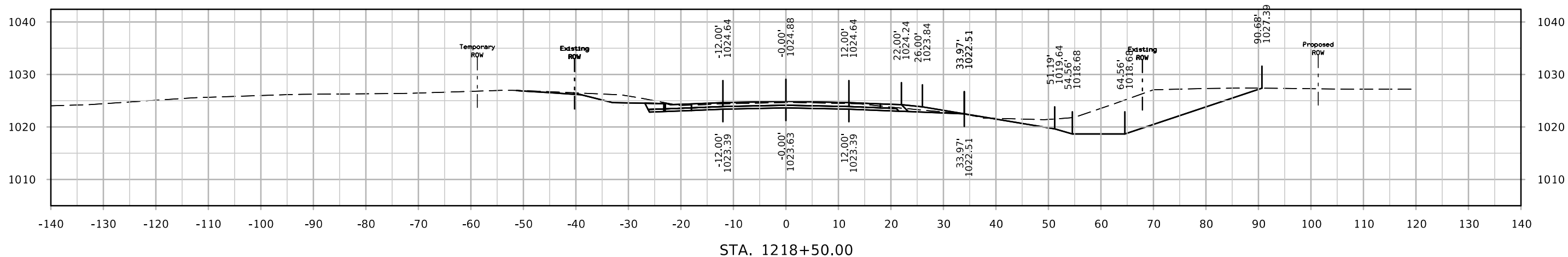
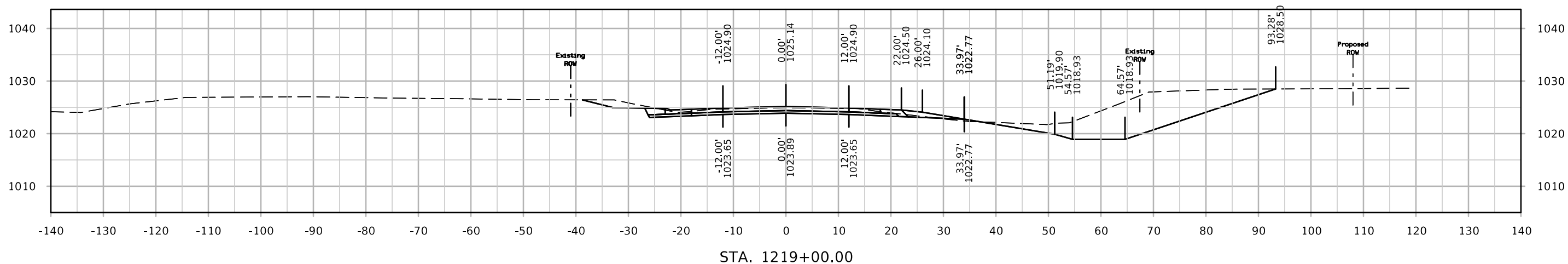
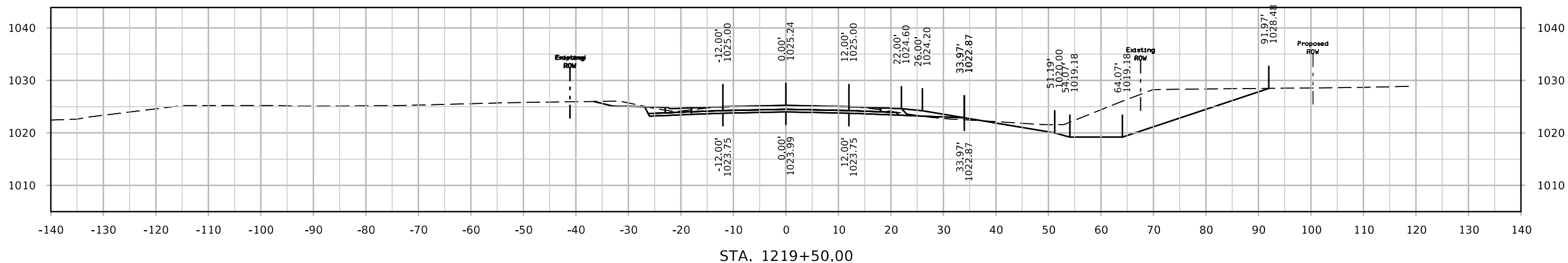
STA. 1218+25.63

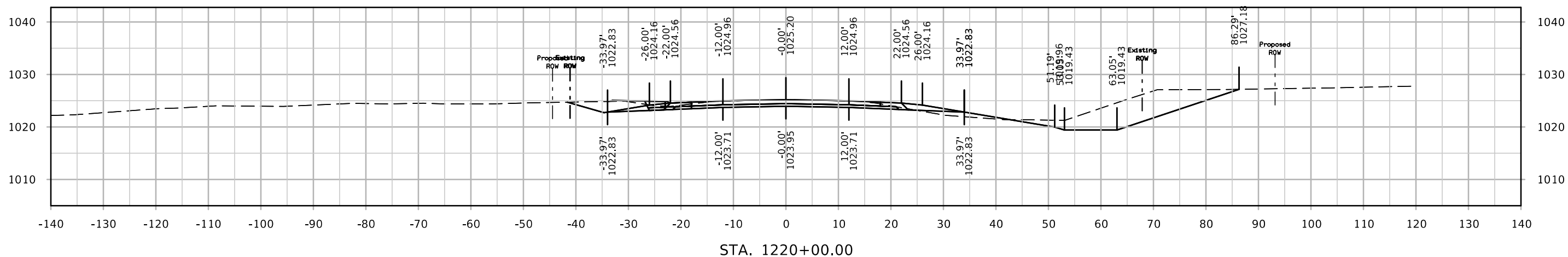
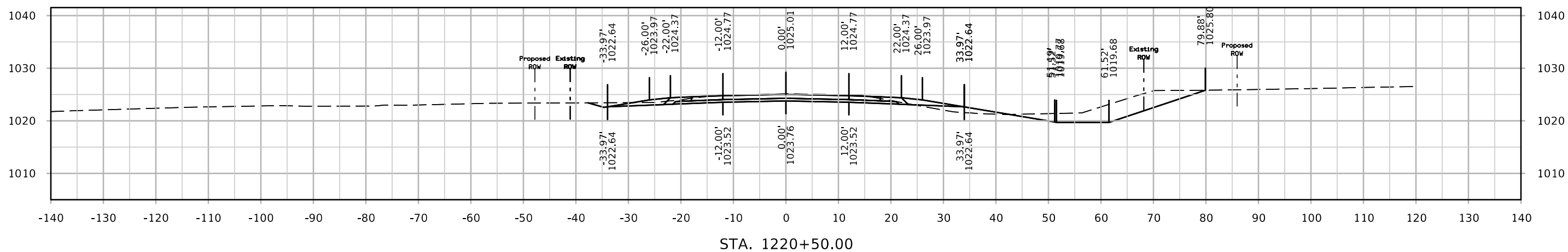
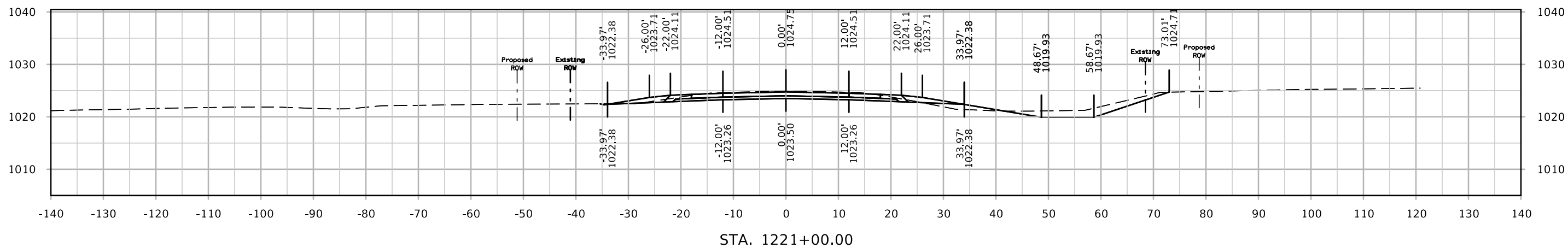


STA. 1218+00.00

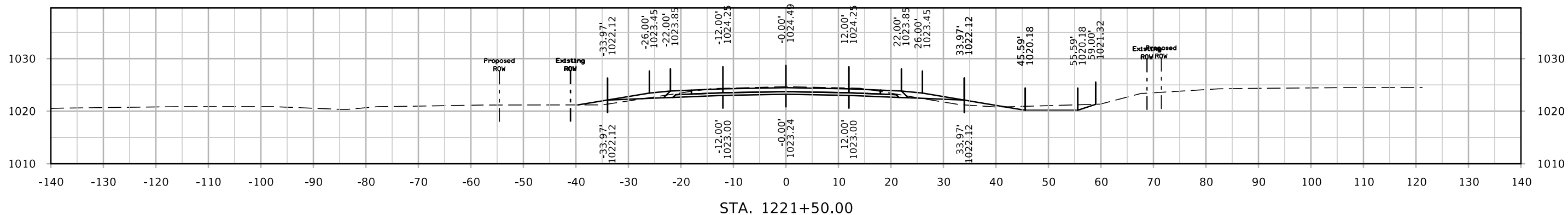
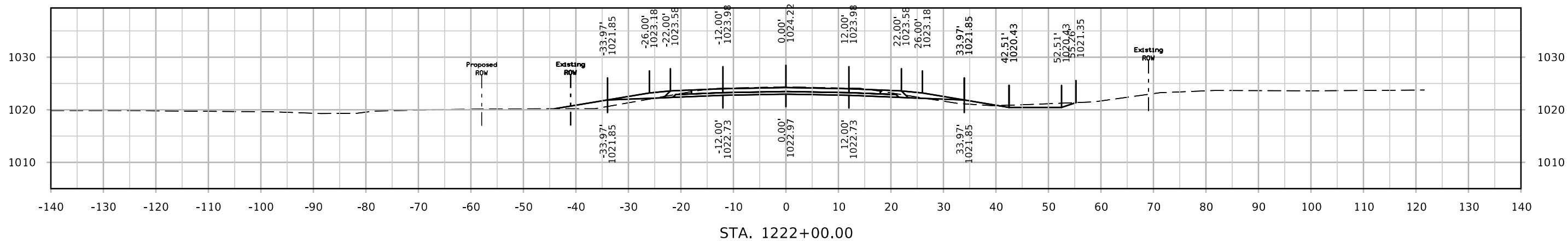
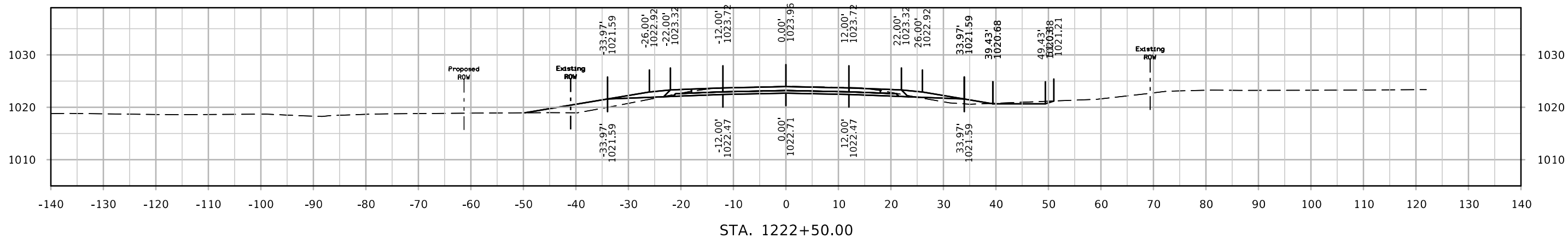


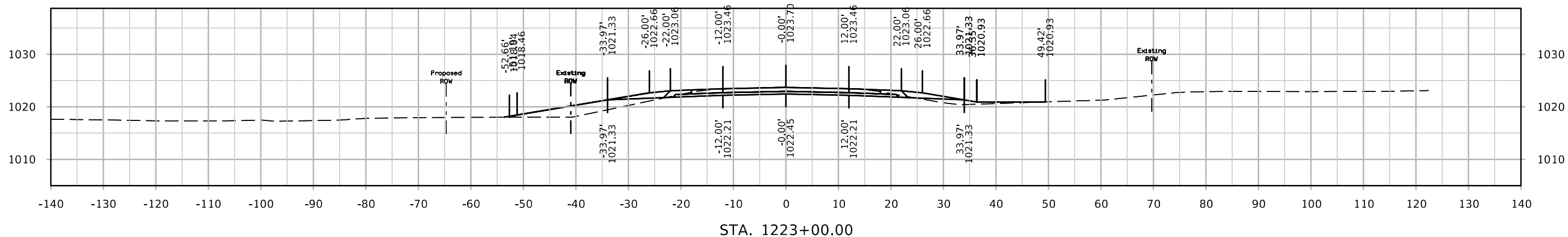
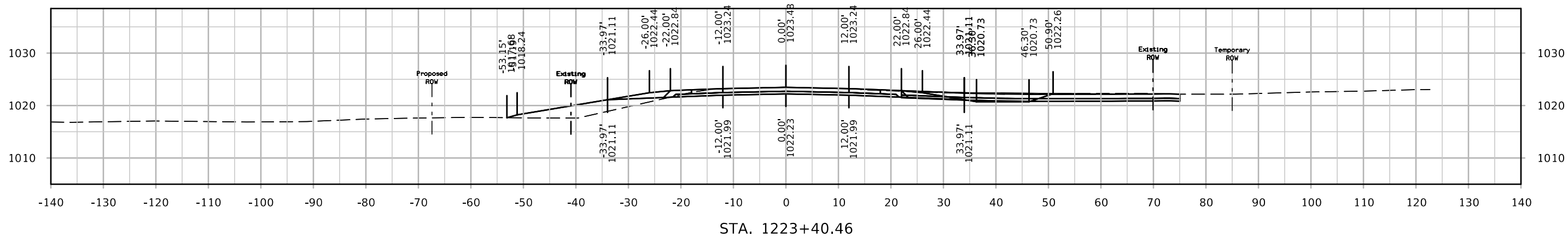
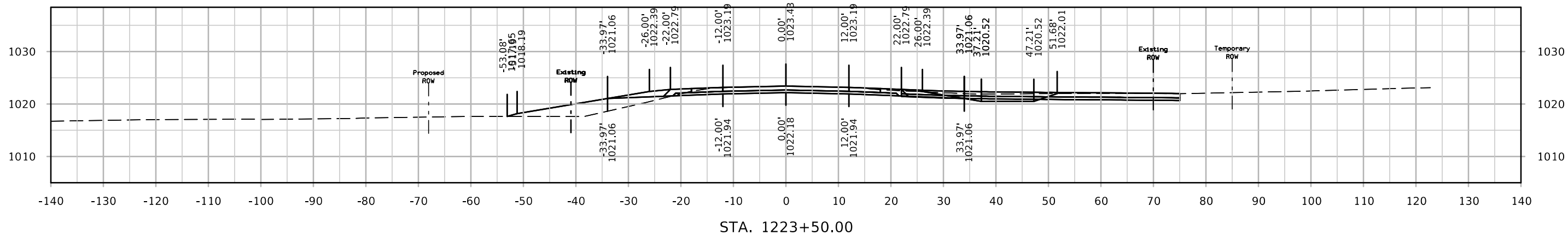
STA. 1217+50.00

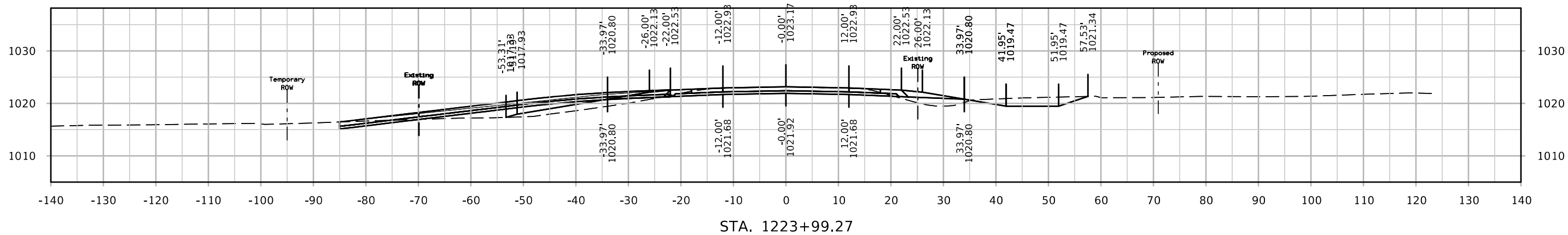
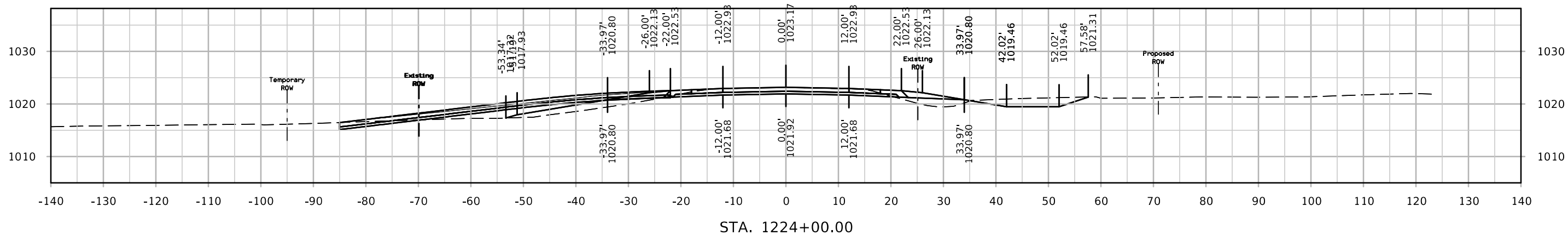
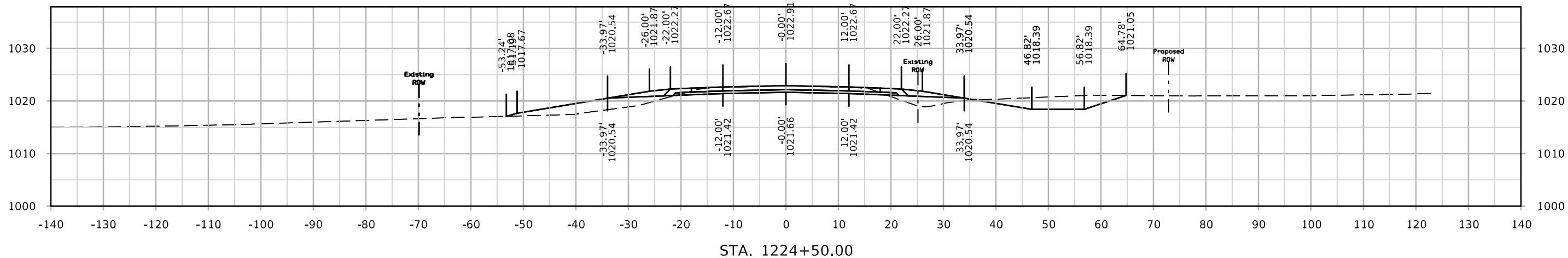


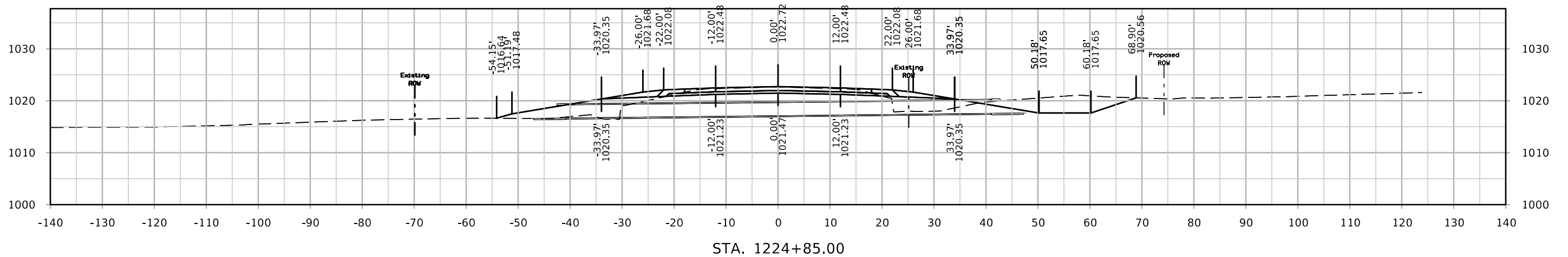
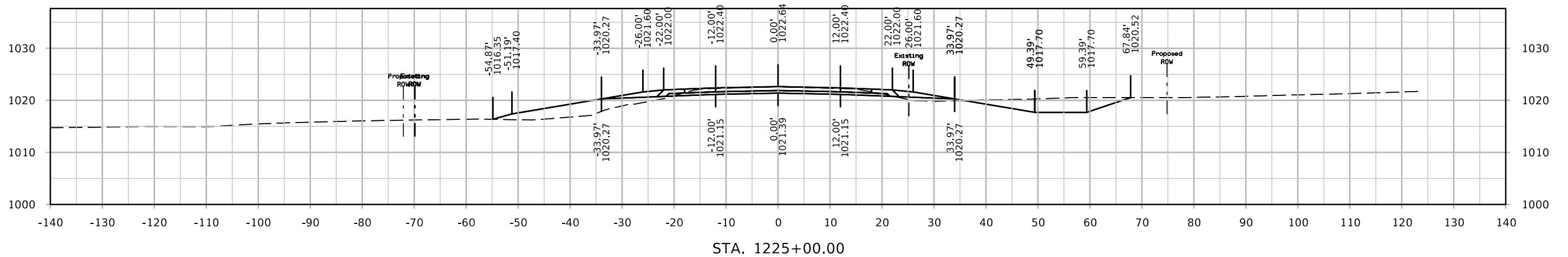
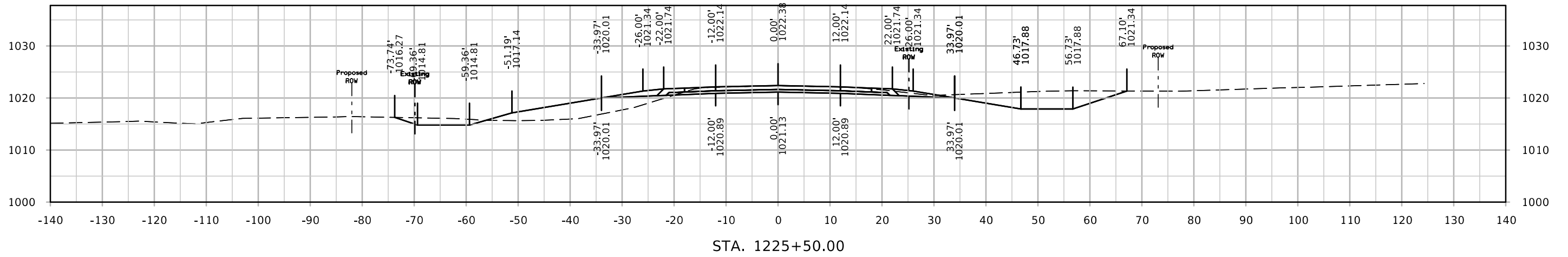


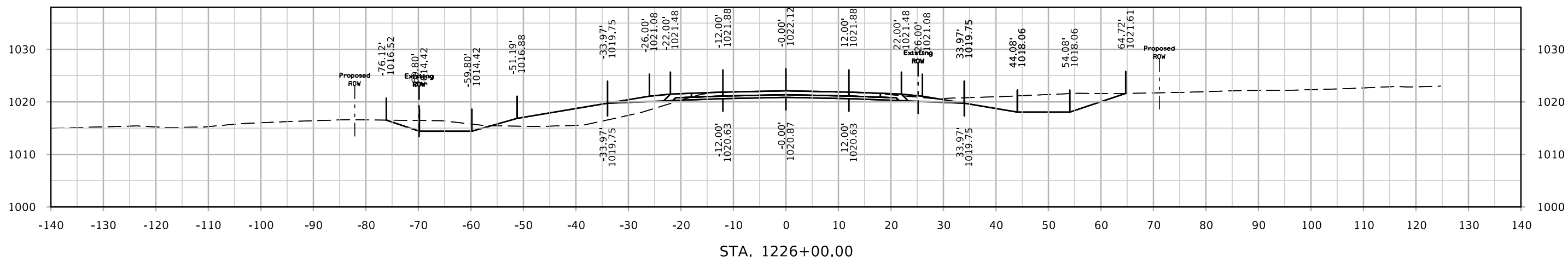
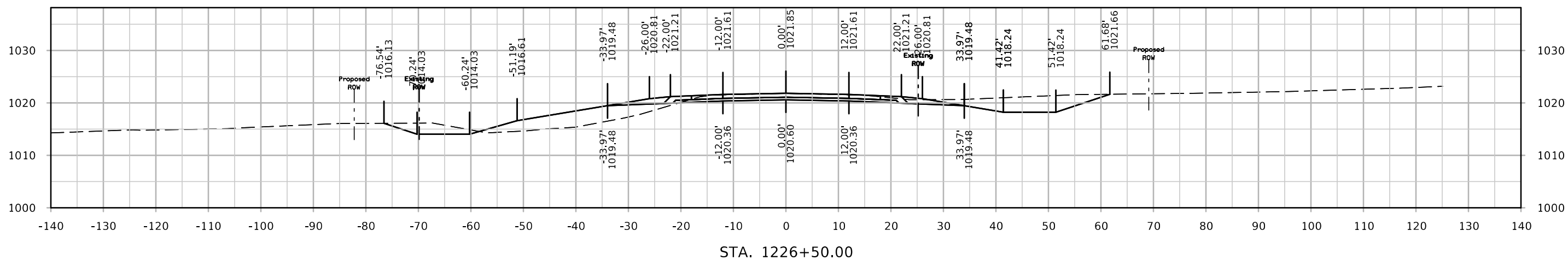
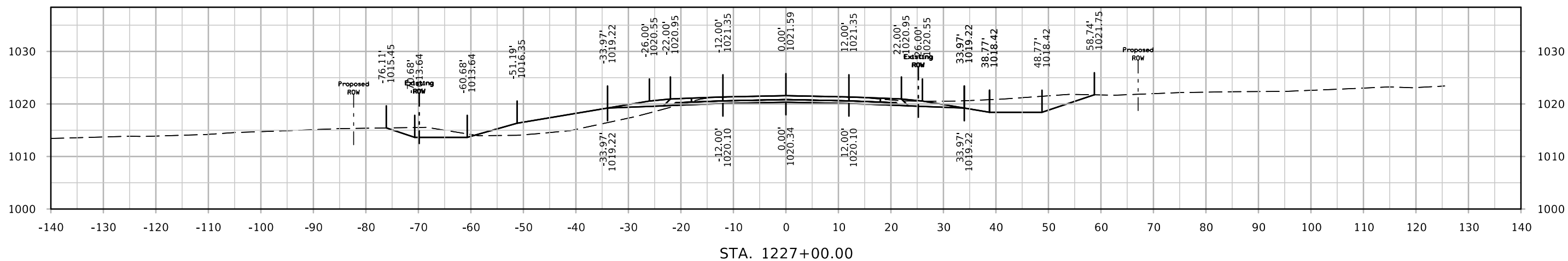


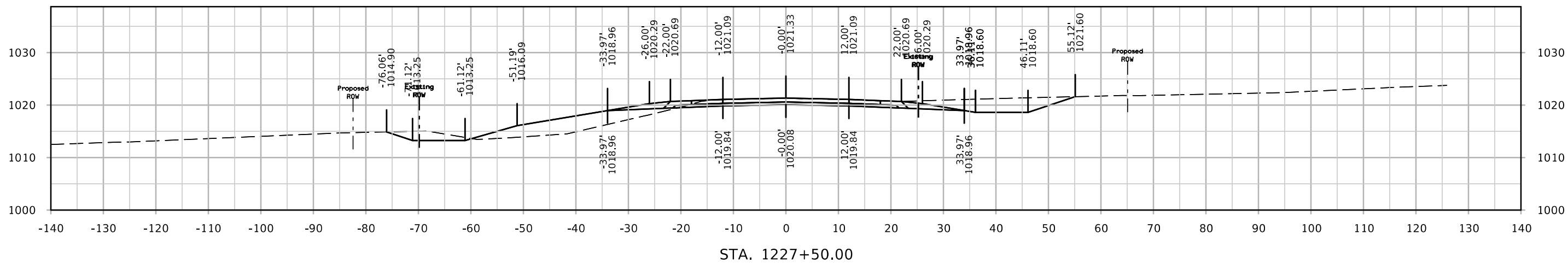
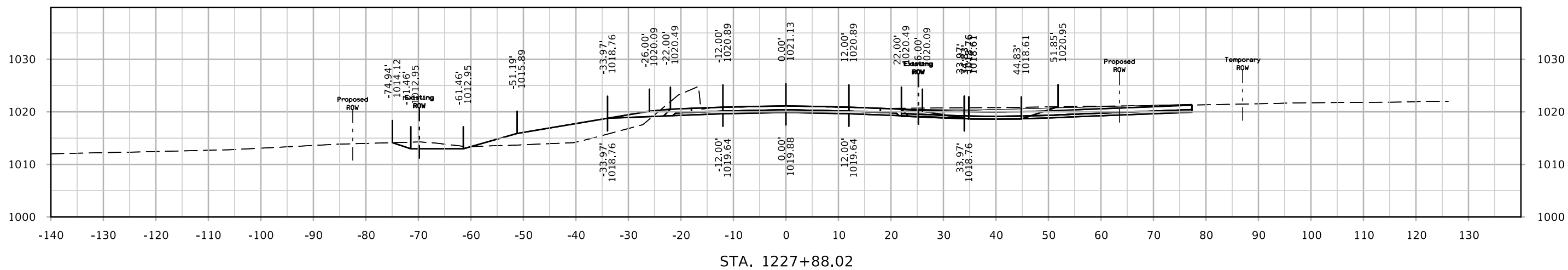
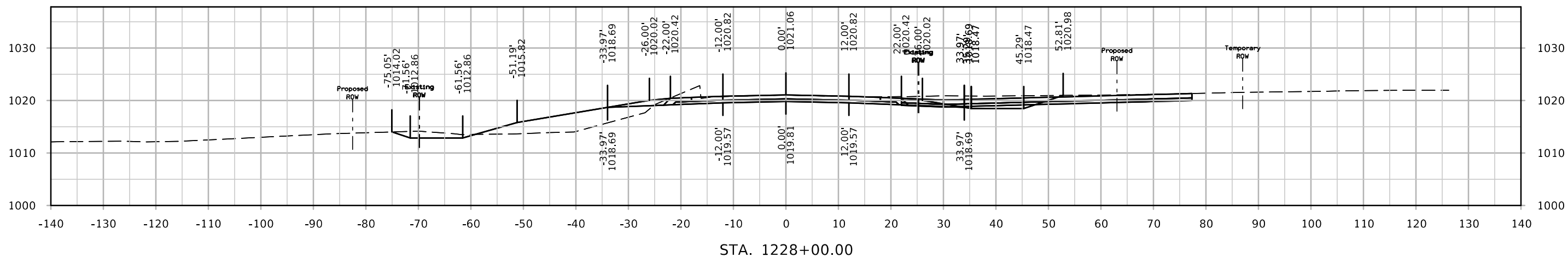


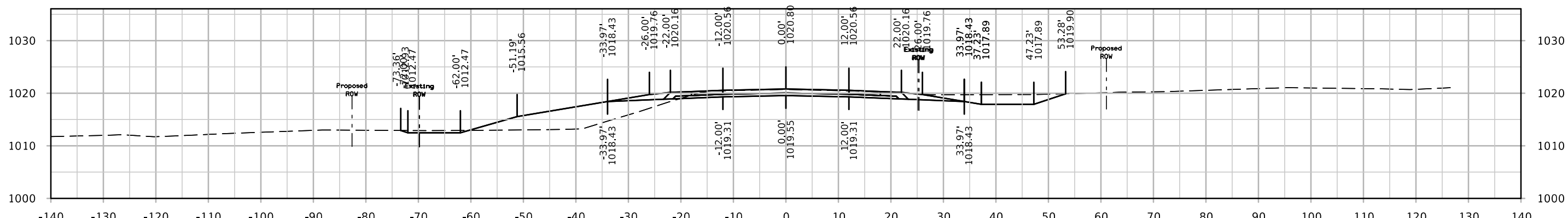
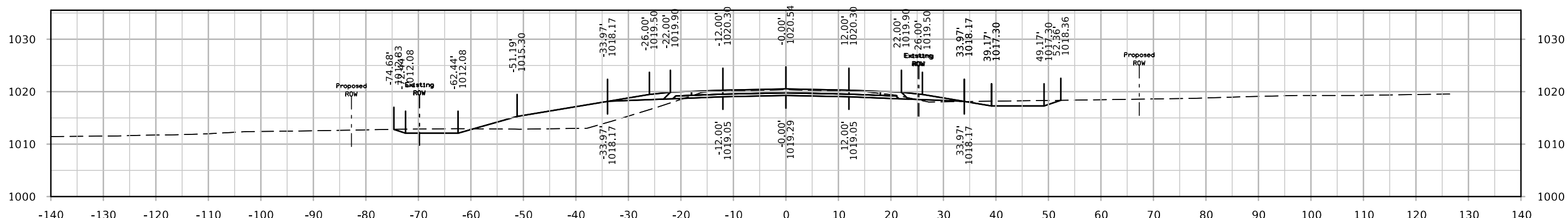
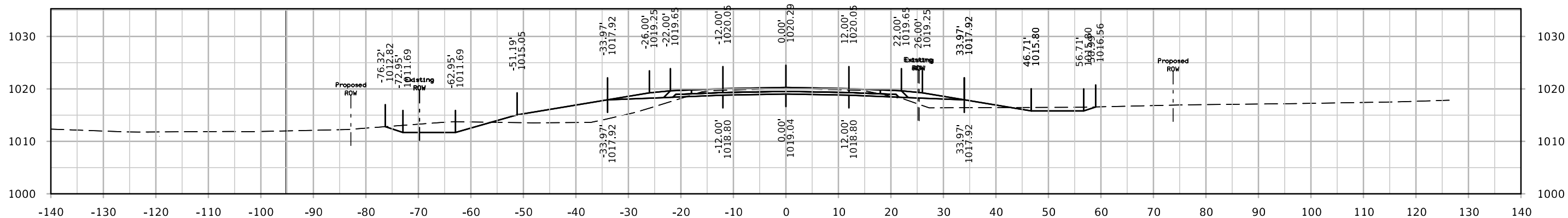


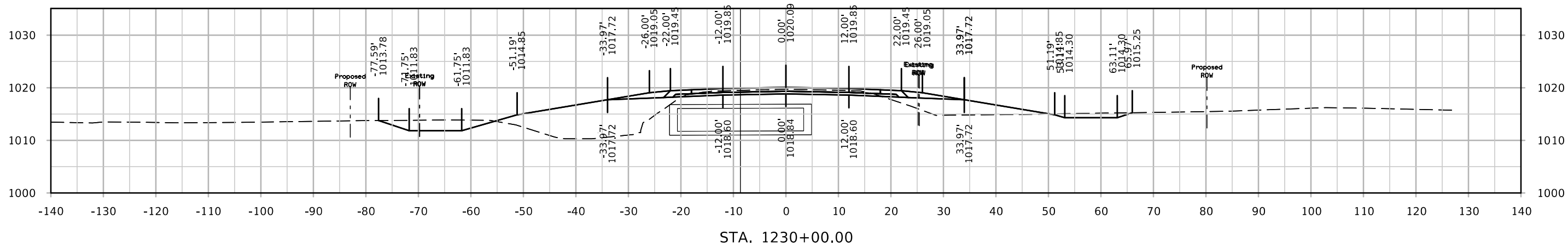






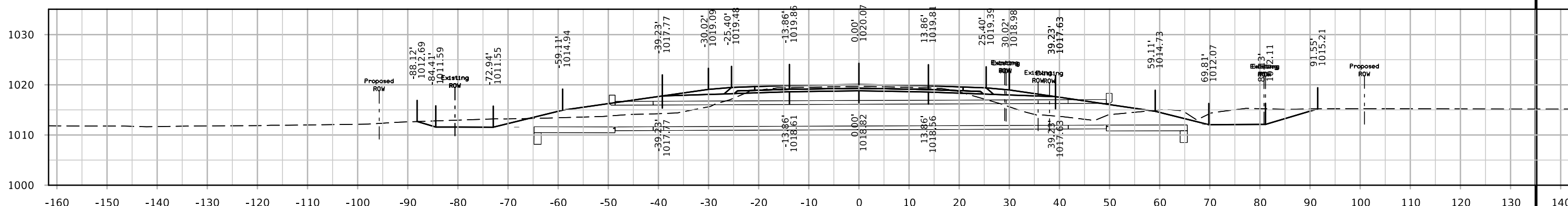
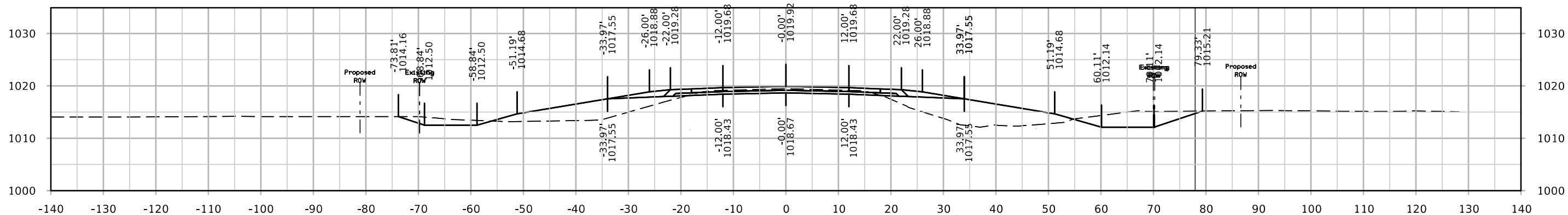
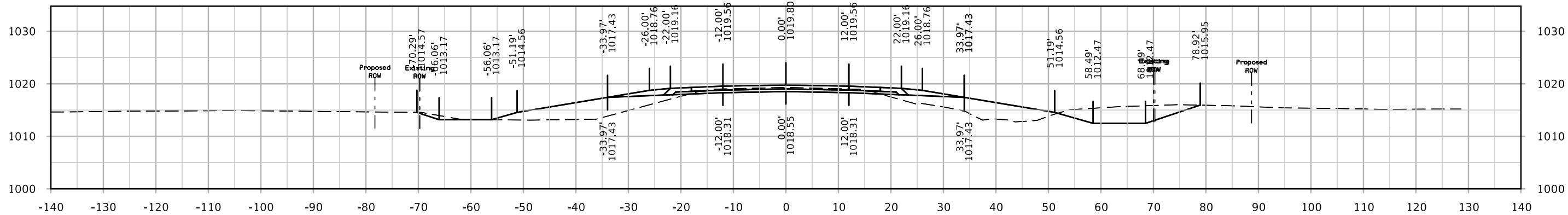


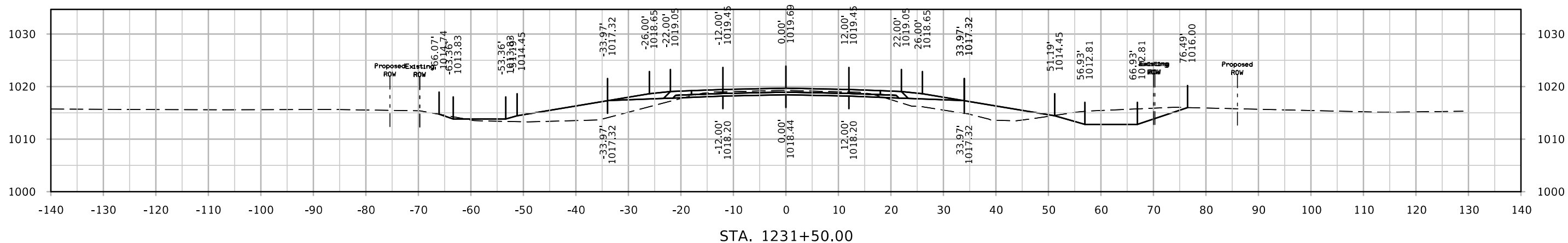
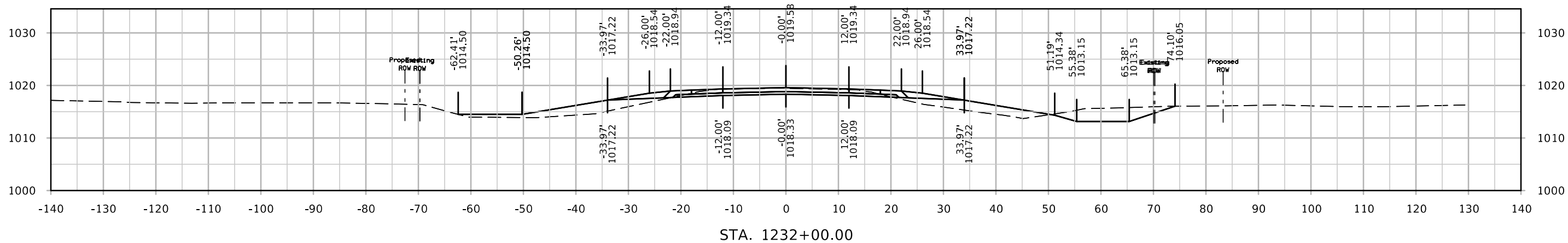
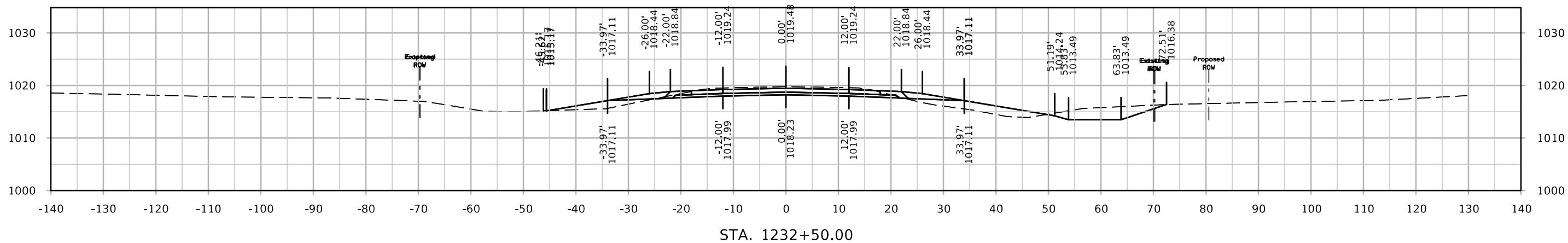


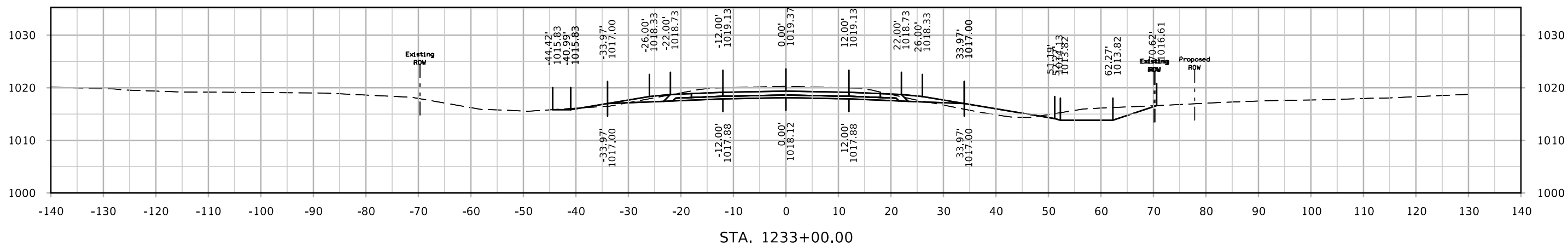
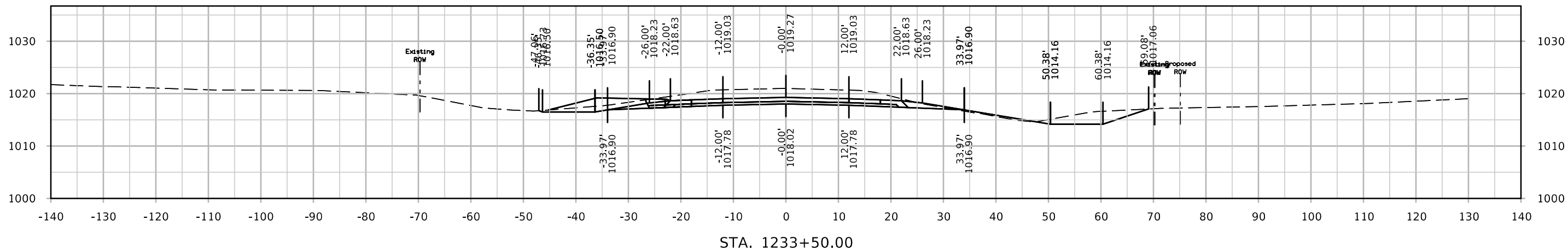
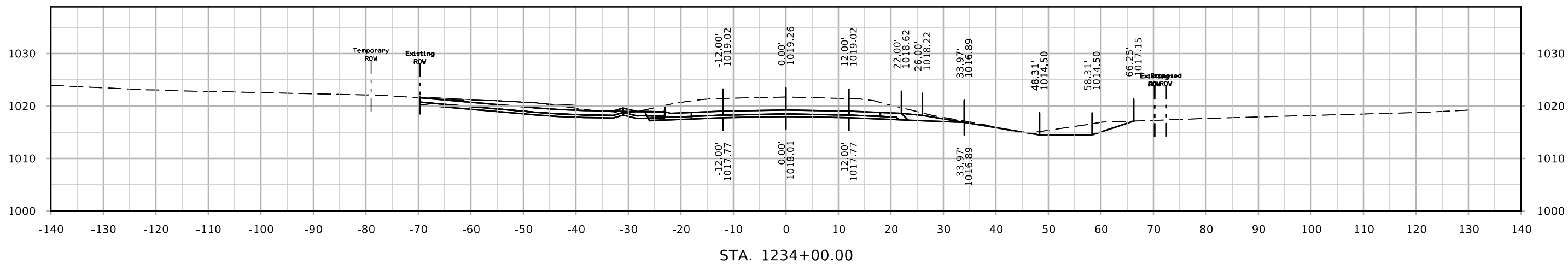


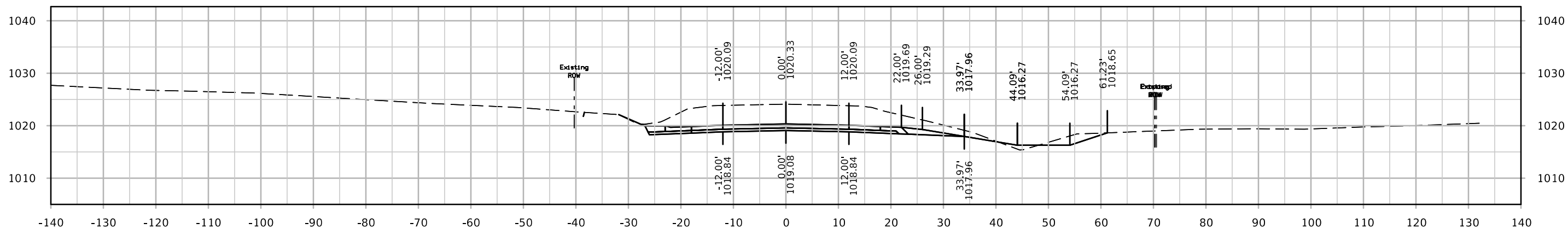
STA. 1230+00.00



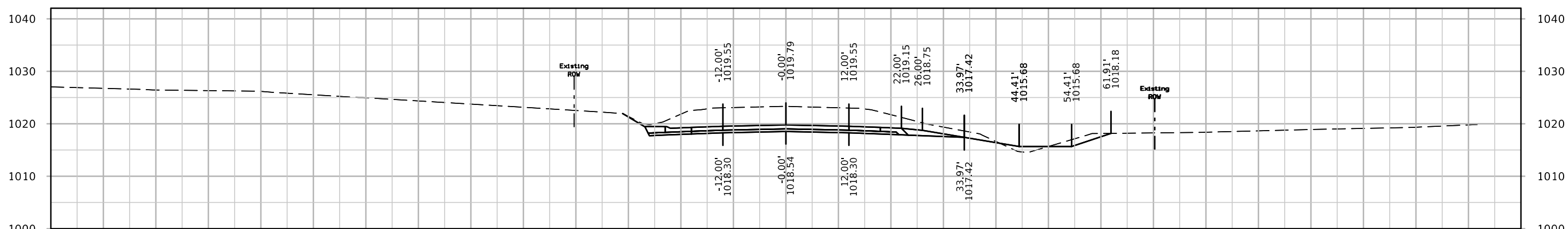




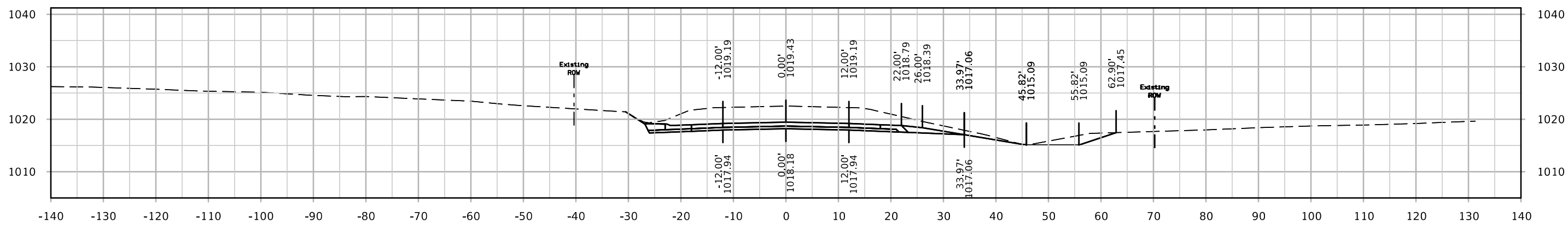




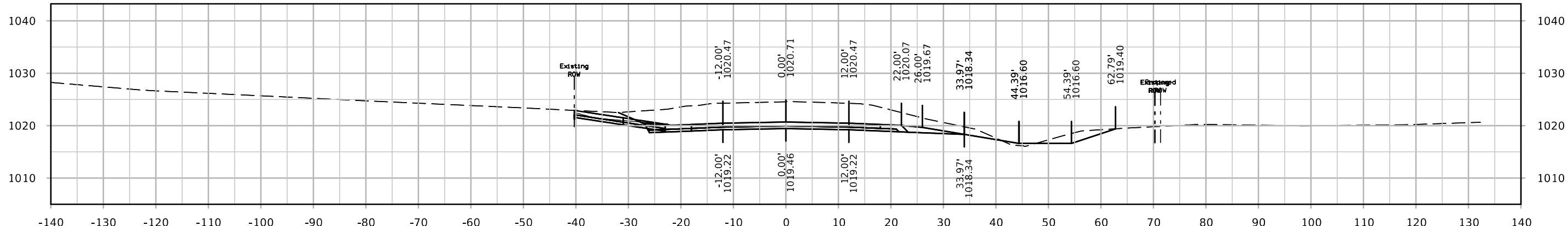
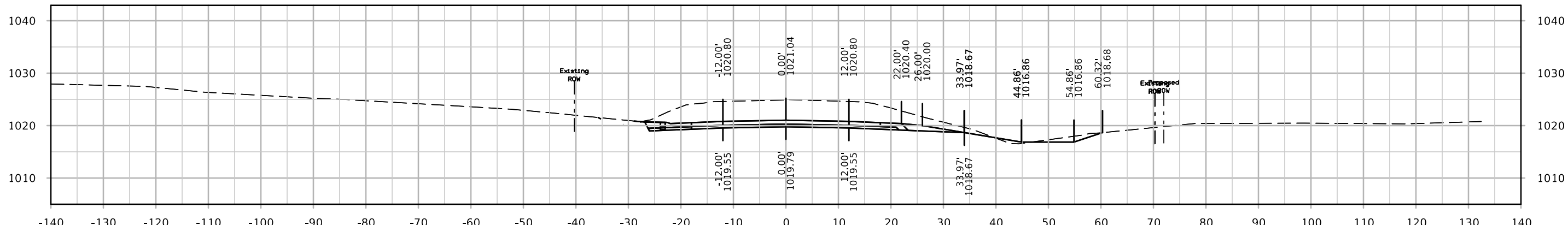
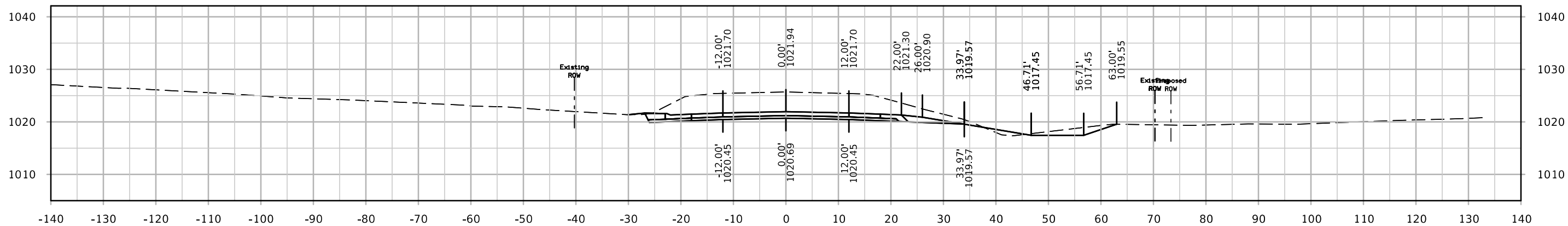
STA. 1235+50.00



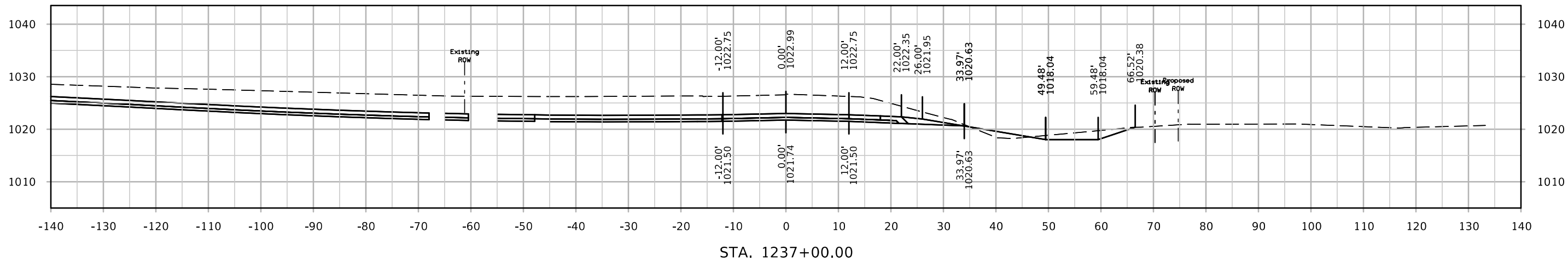
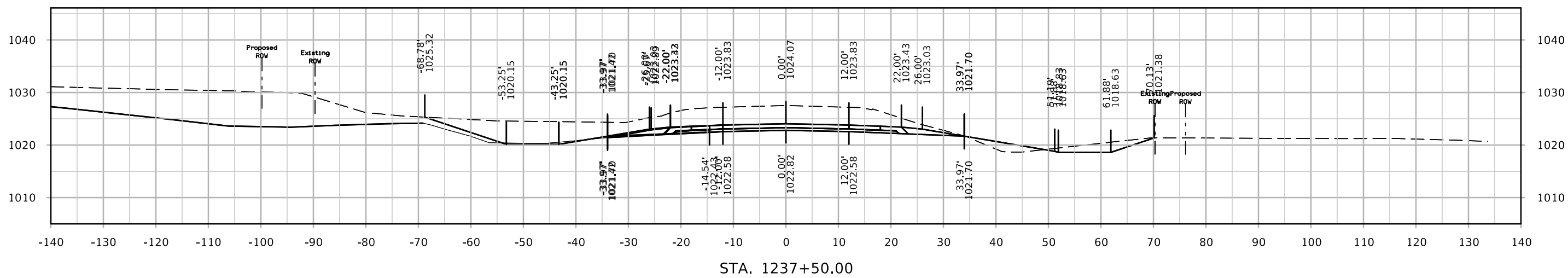
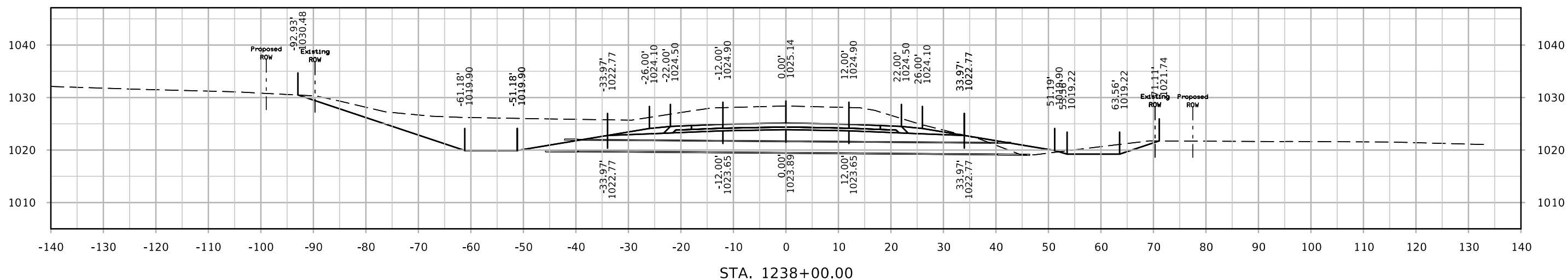
STA. 1235+00.00

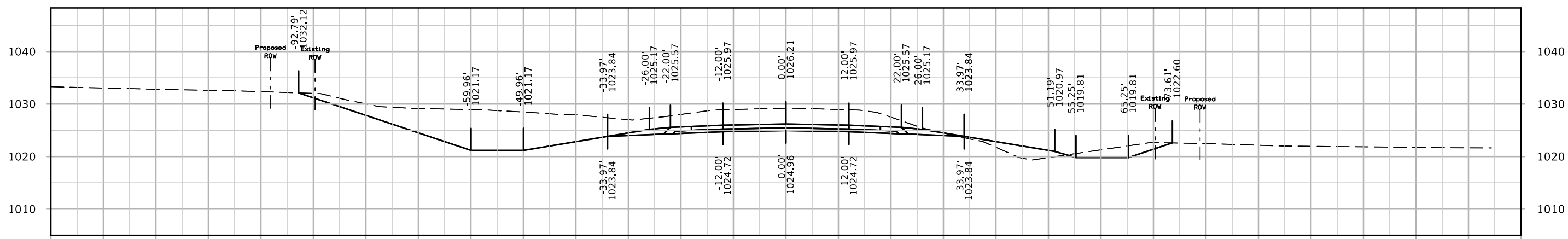
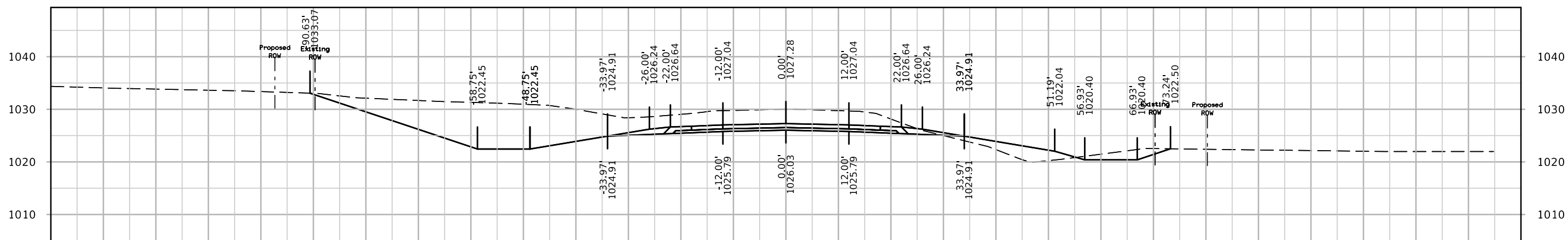
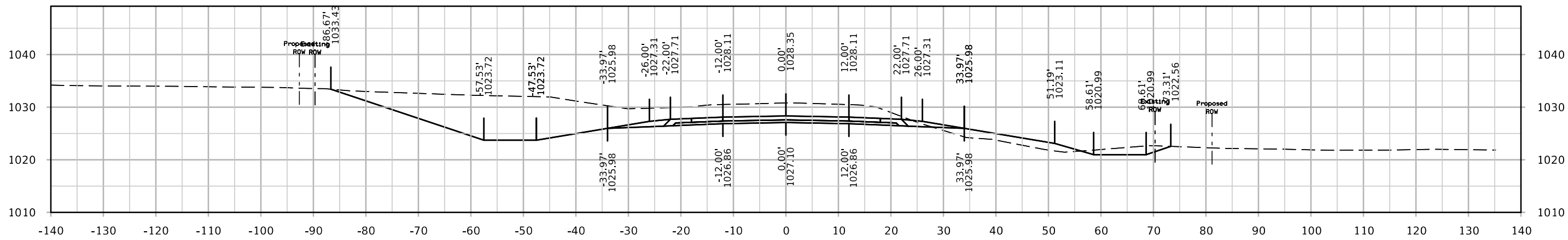


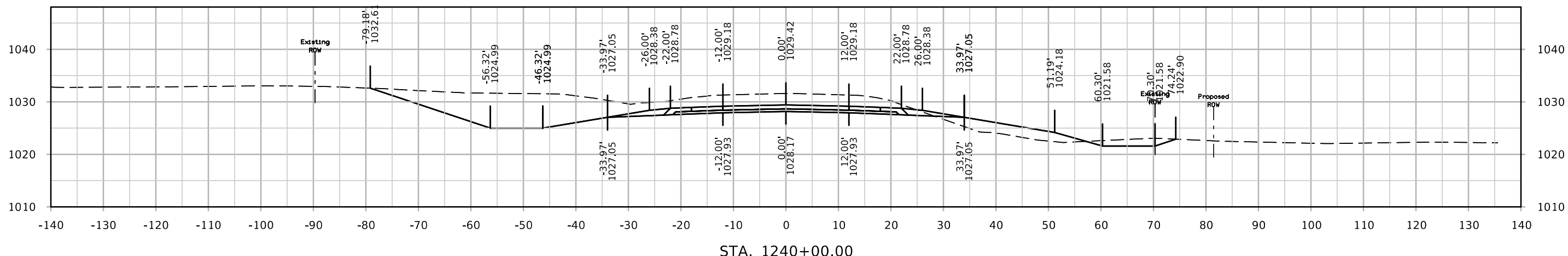
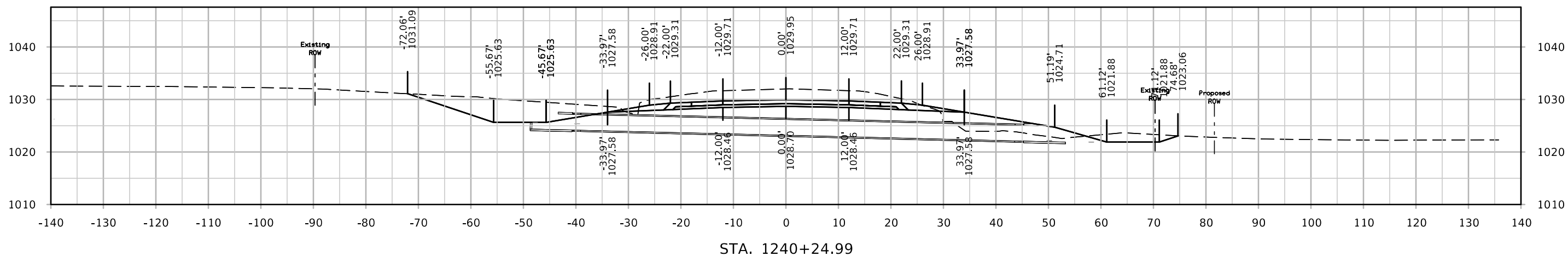
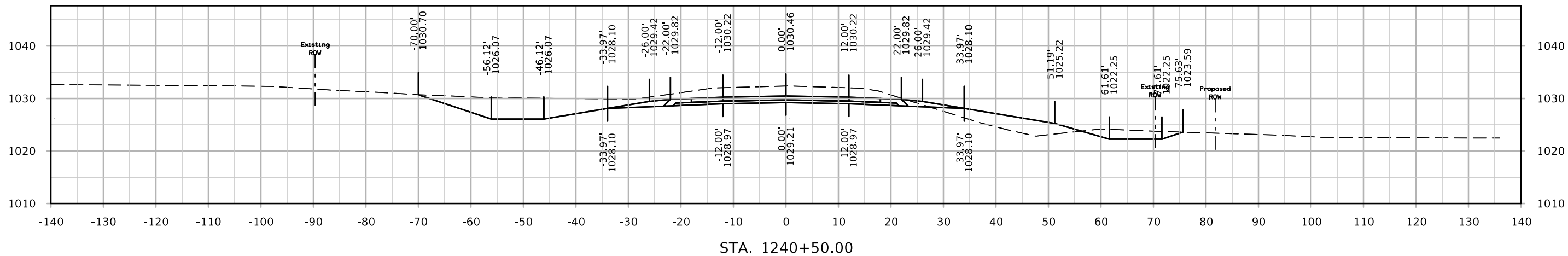
STA. 1234+50.00



# IA 13

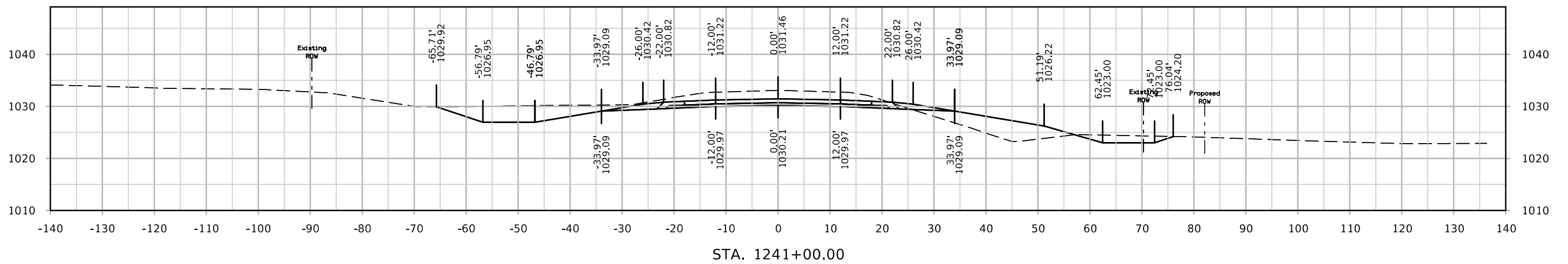
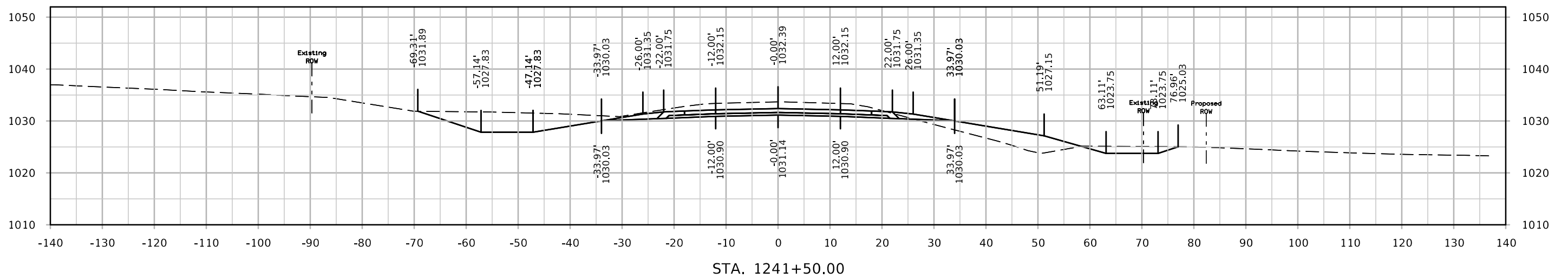
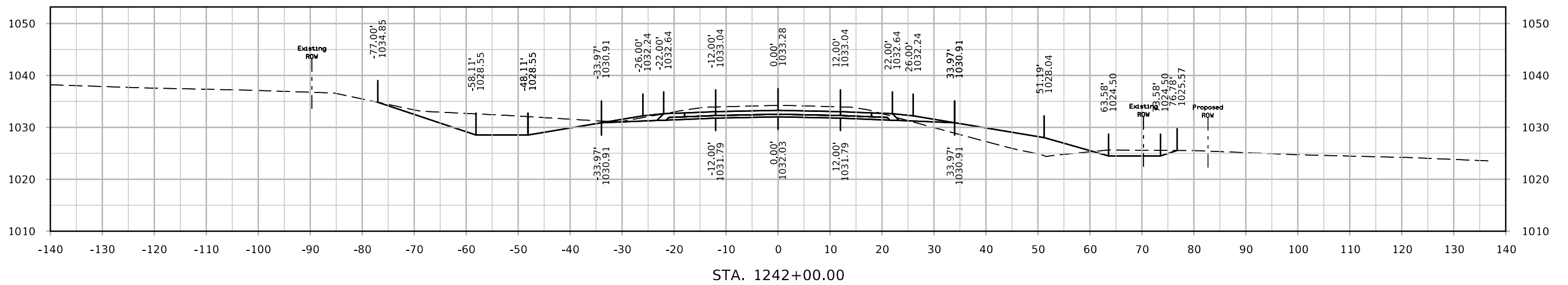




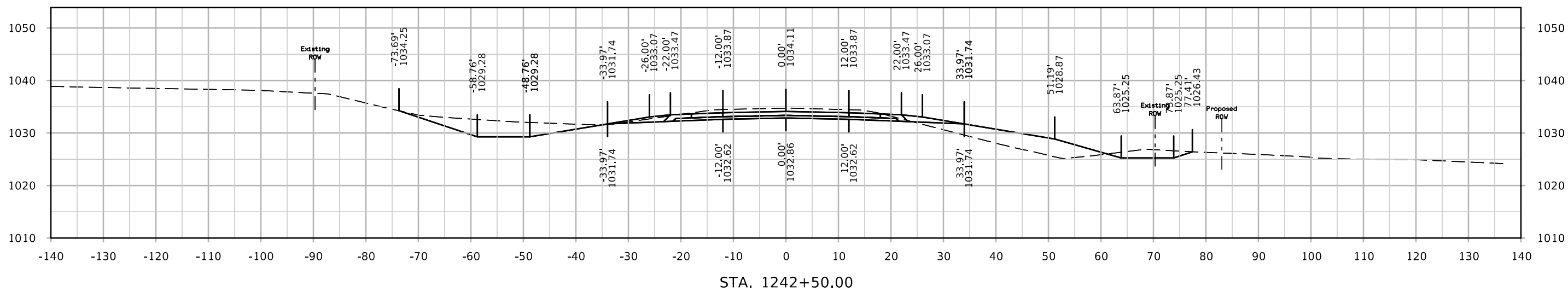
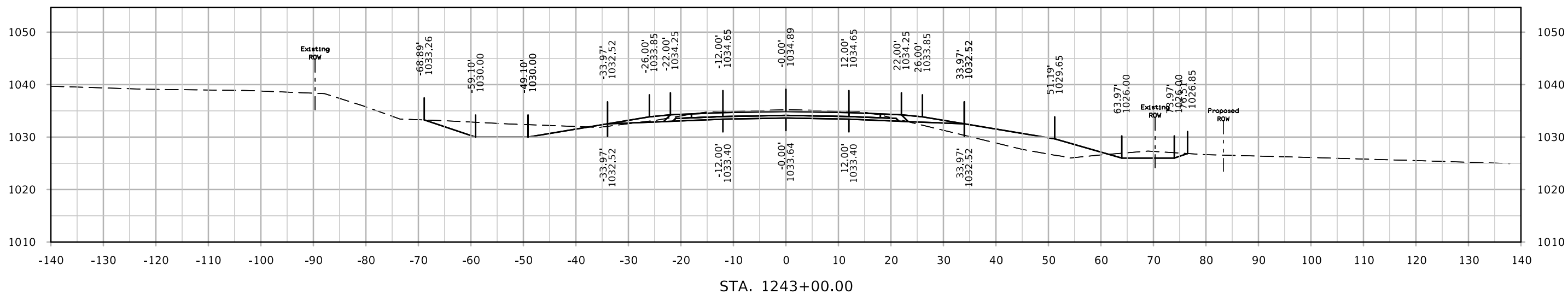
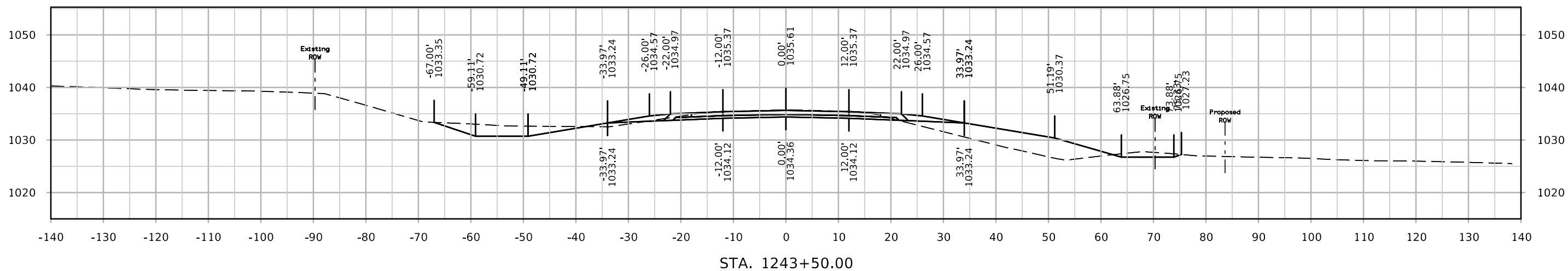


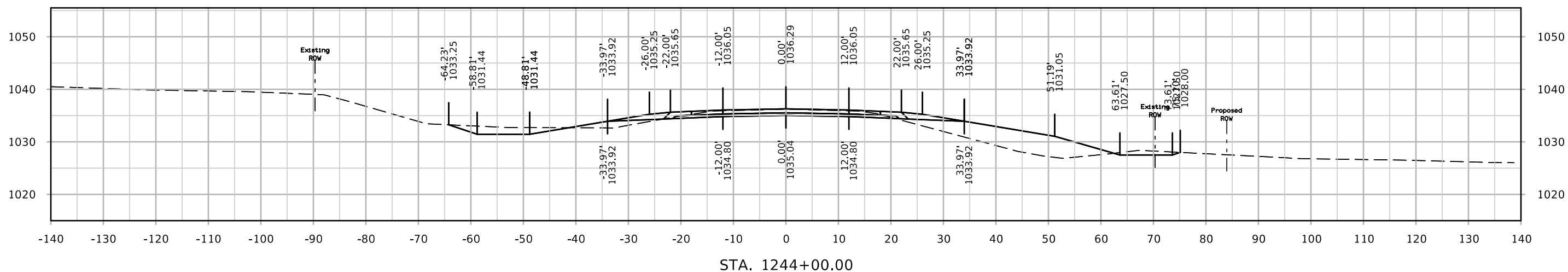
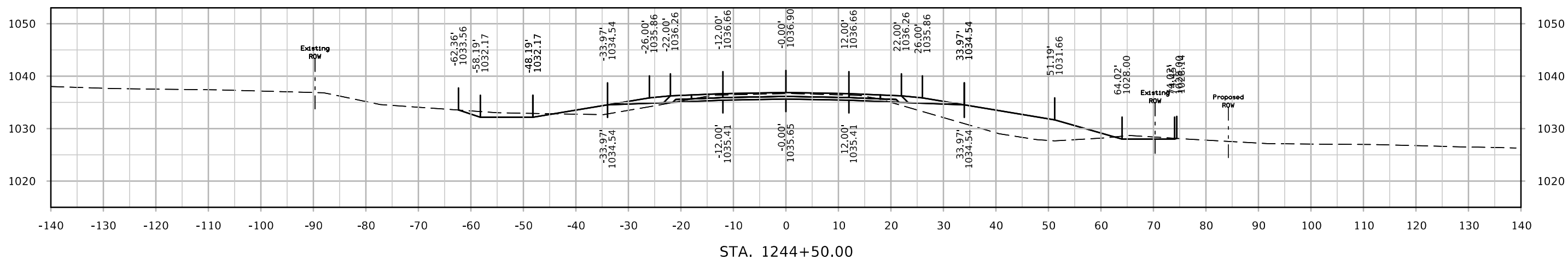
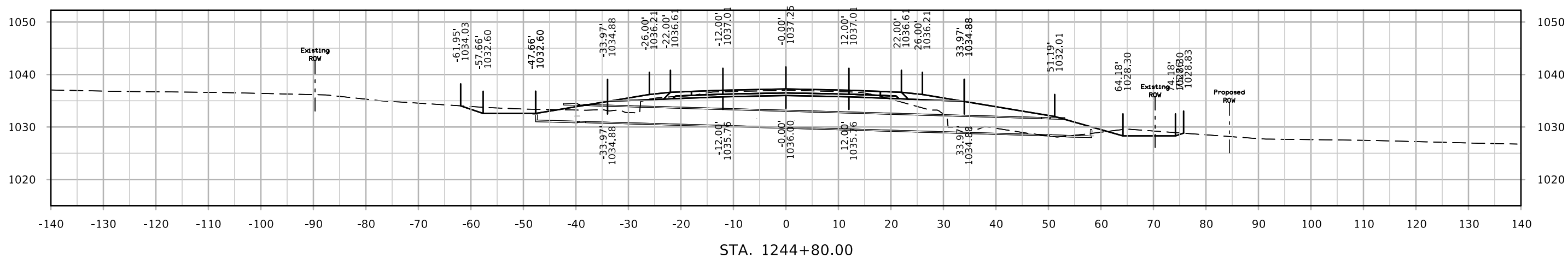


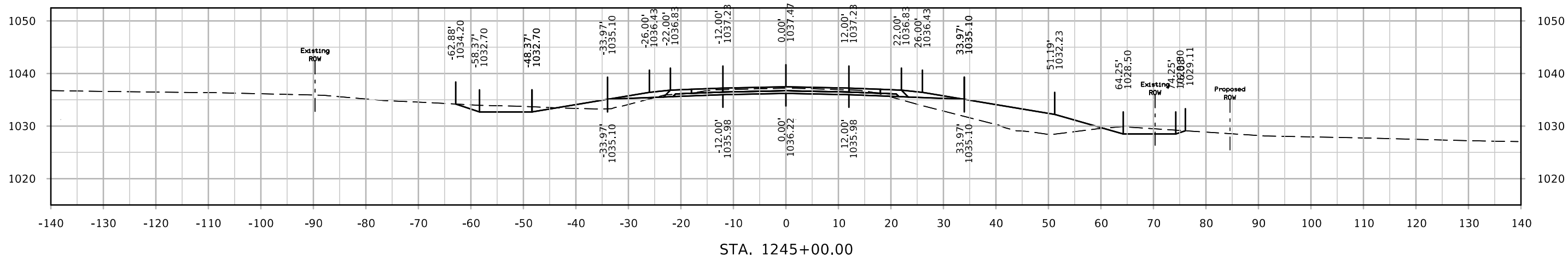
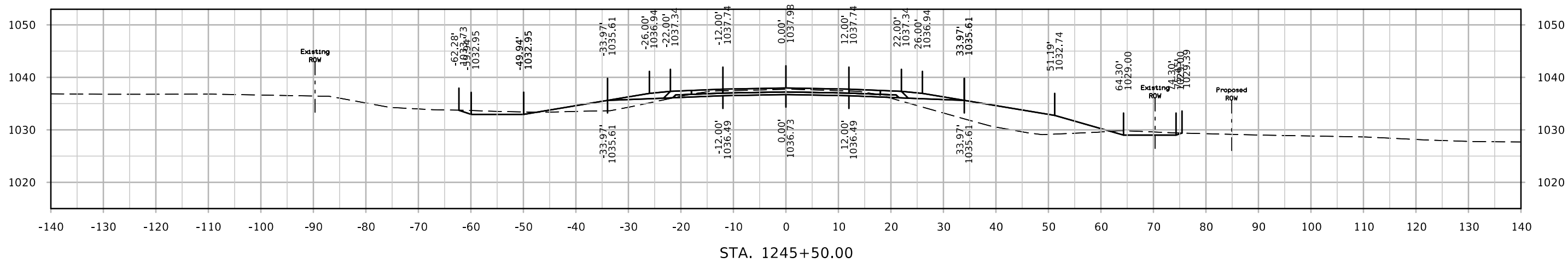
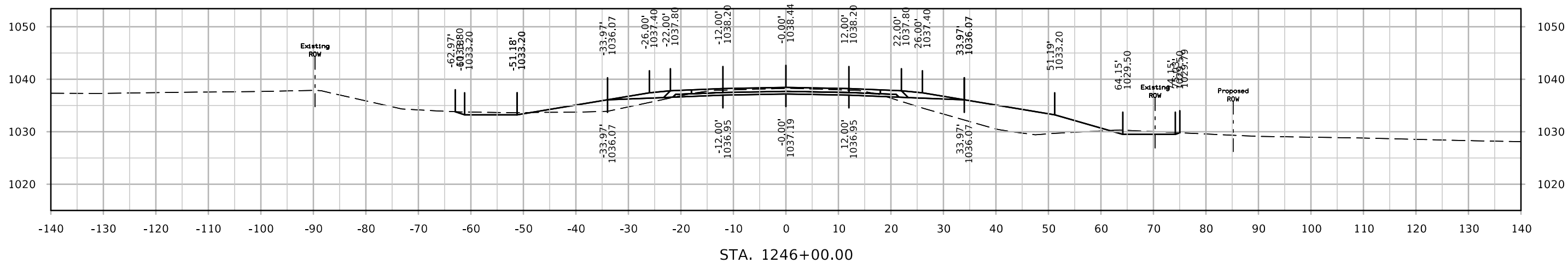
# IA 13

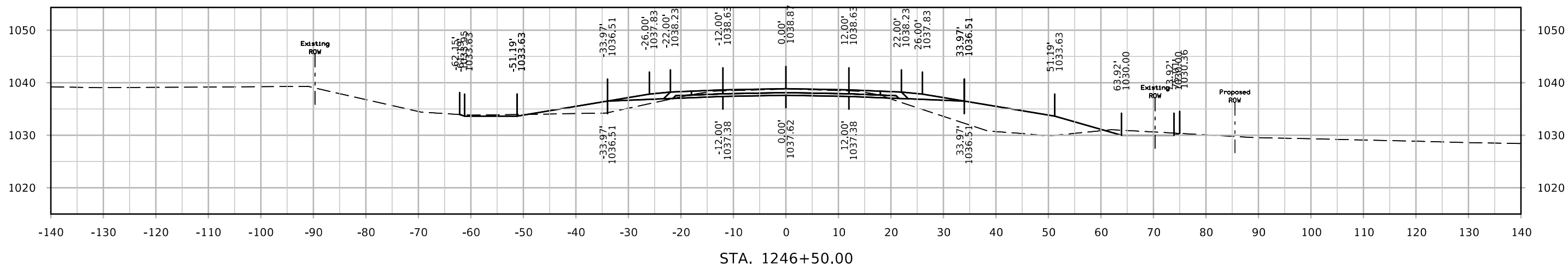
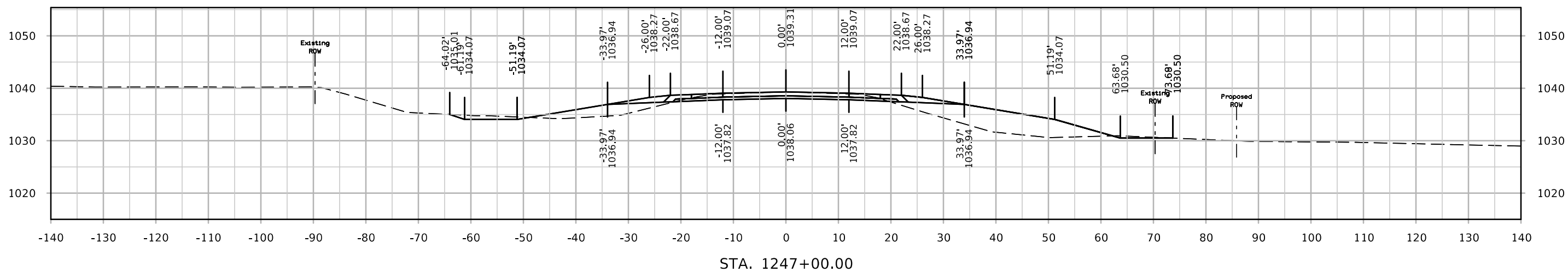
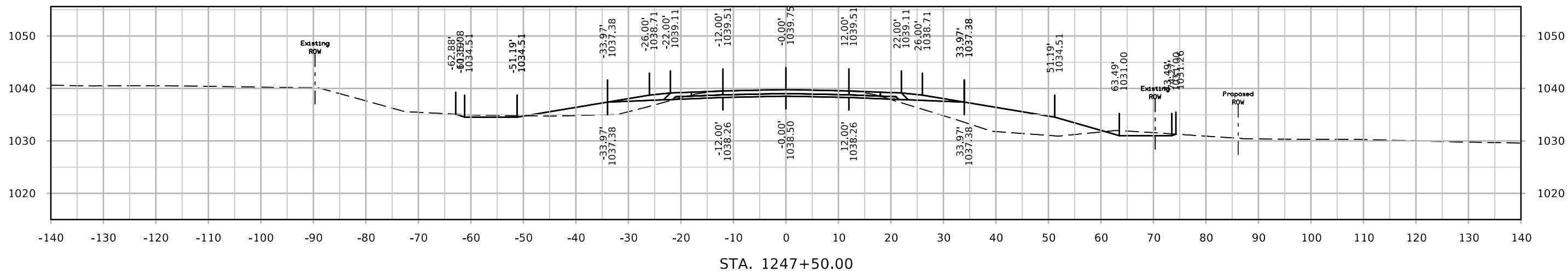


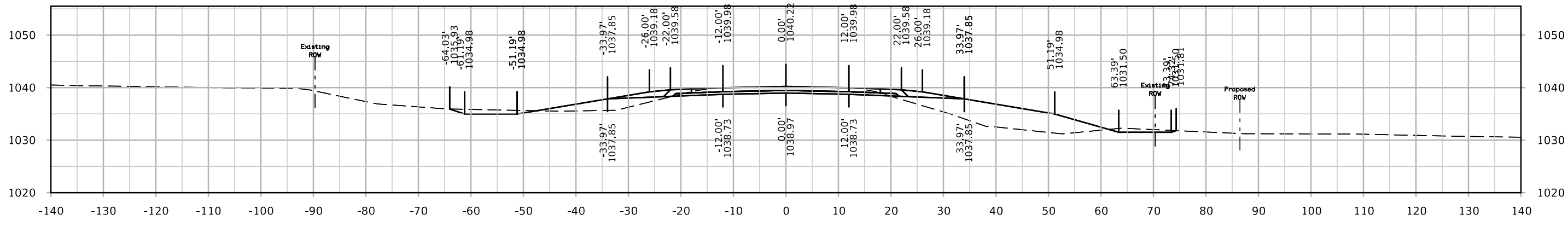
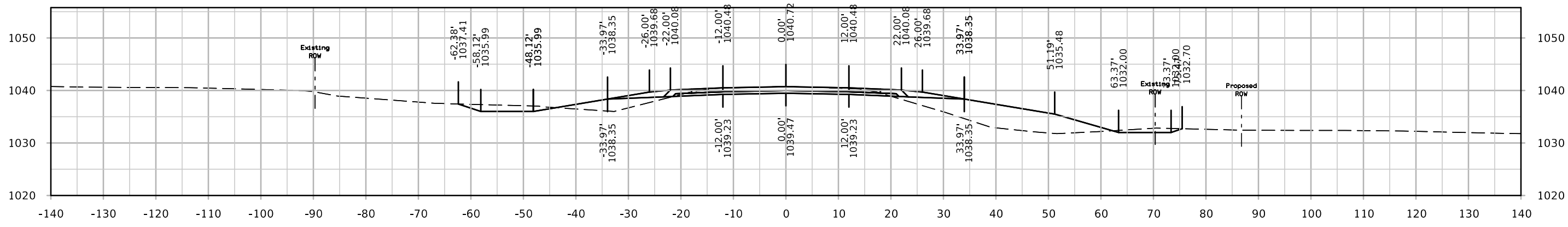
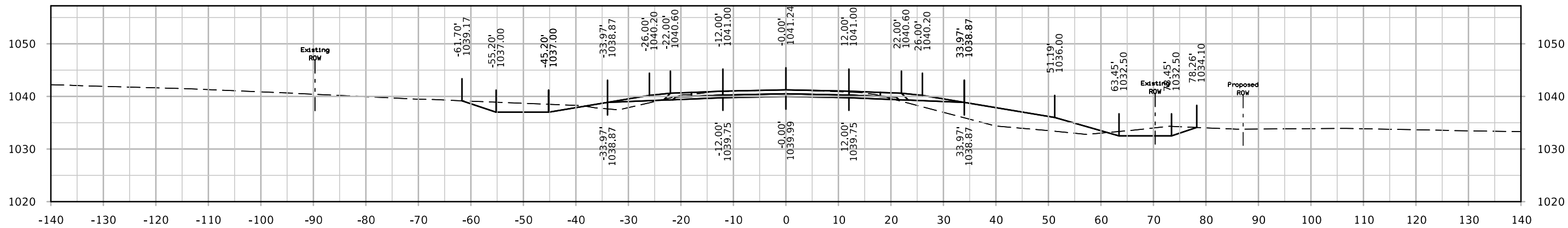
# IA 13

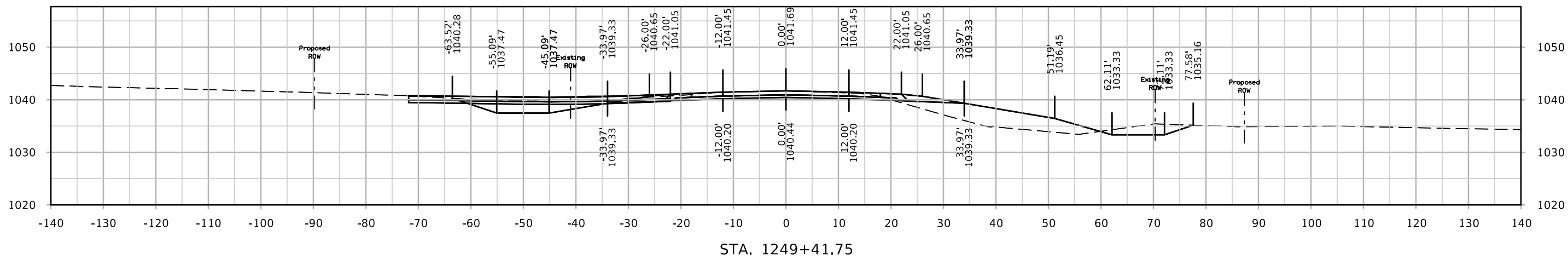
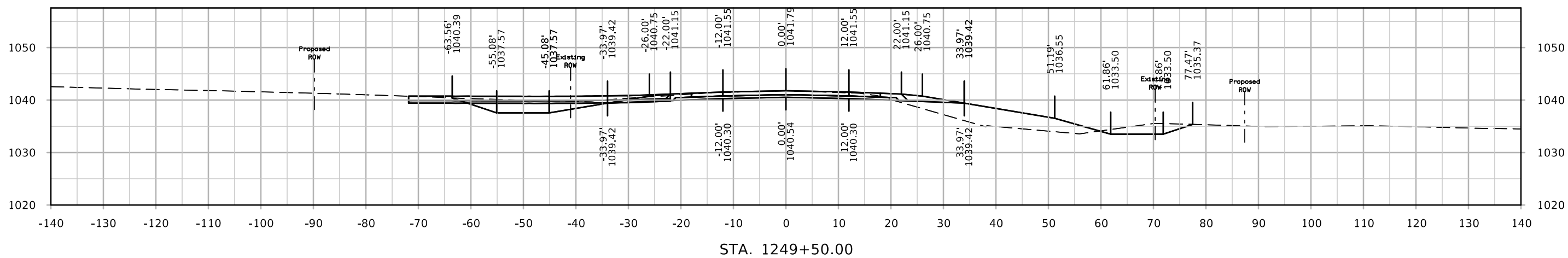
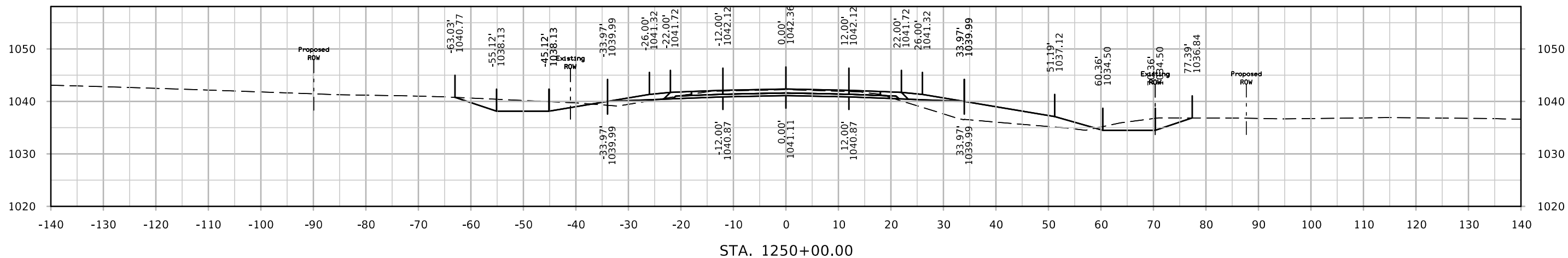


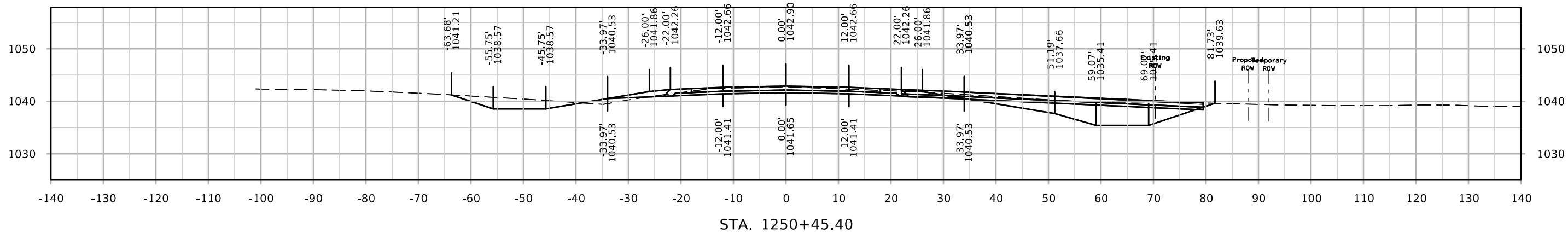
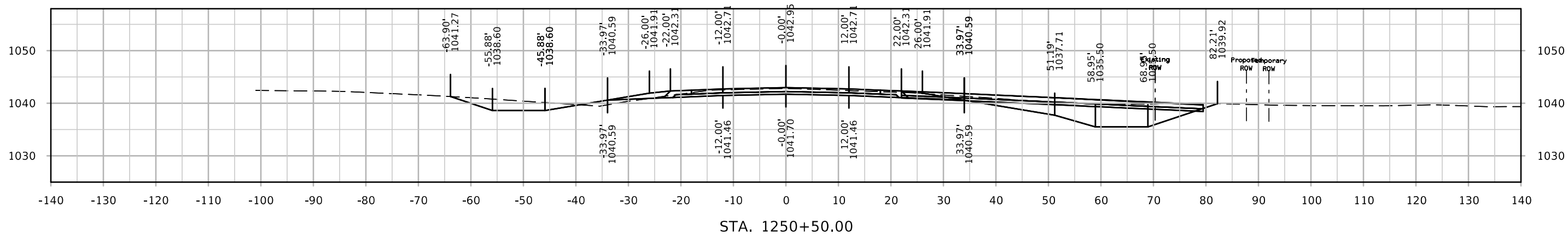
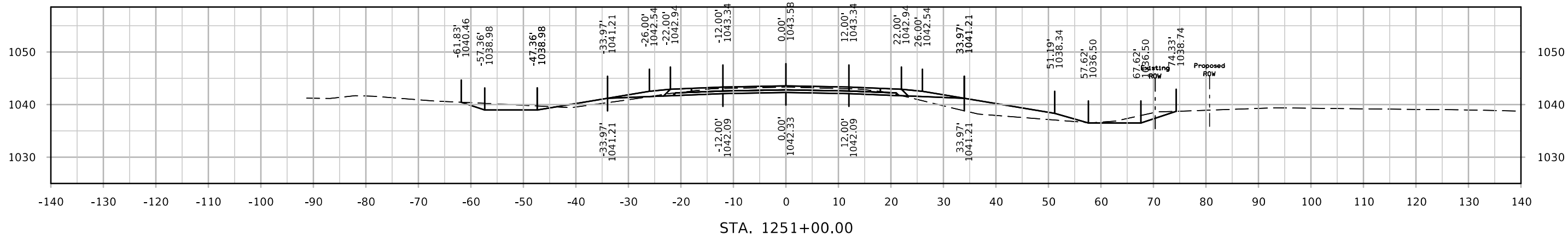




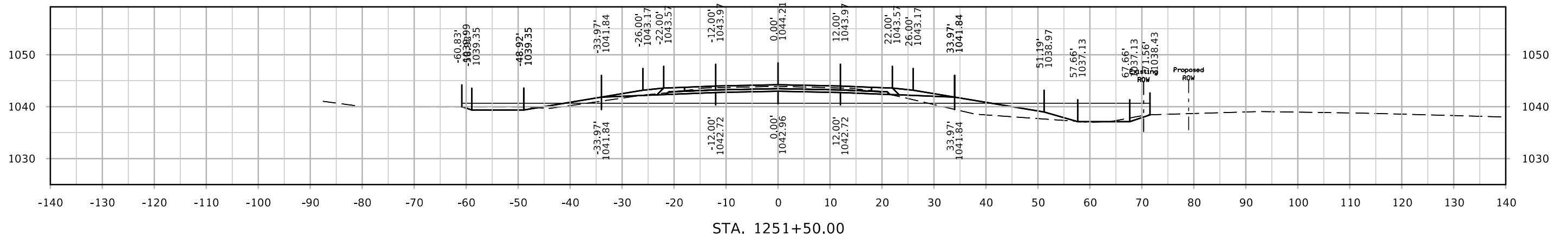
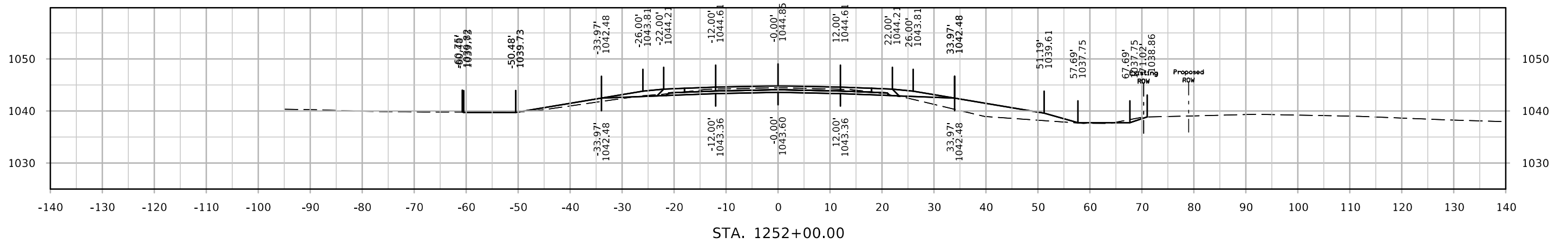
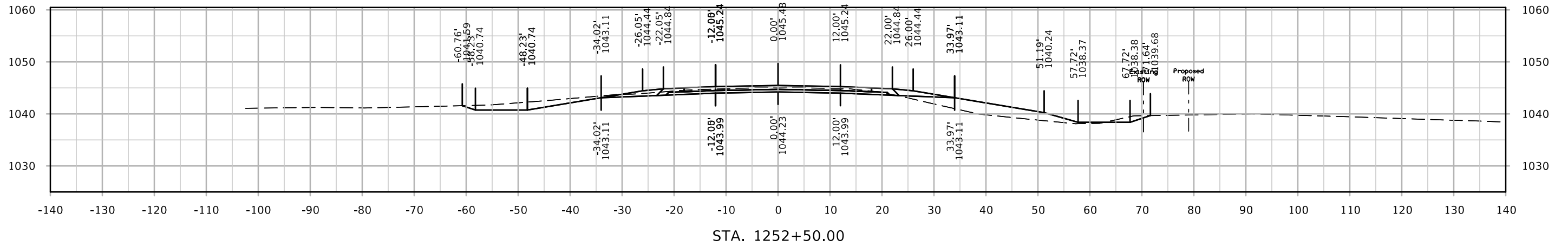


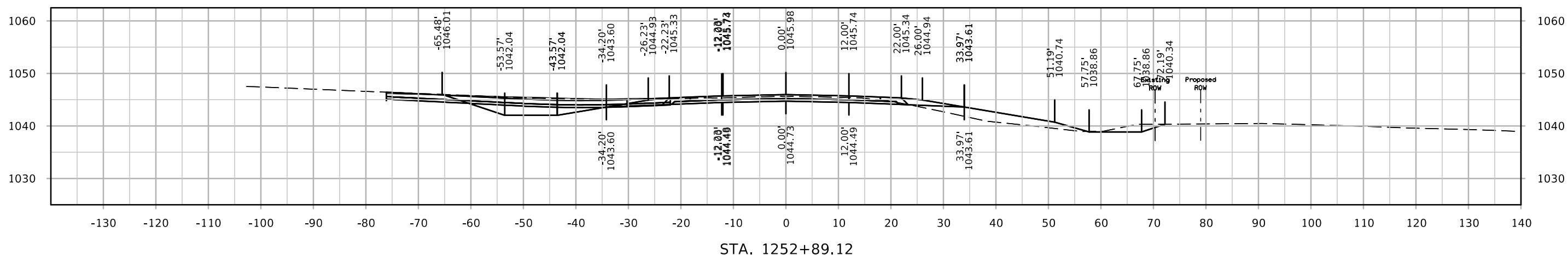
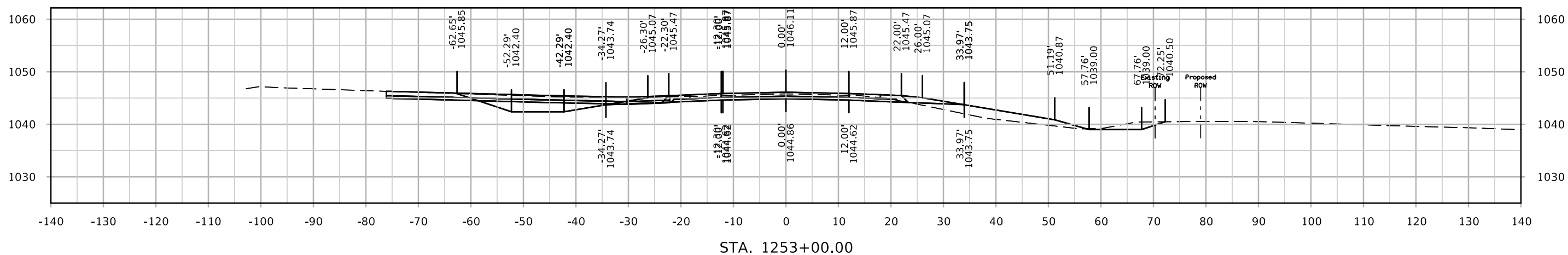
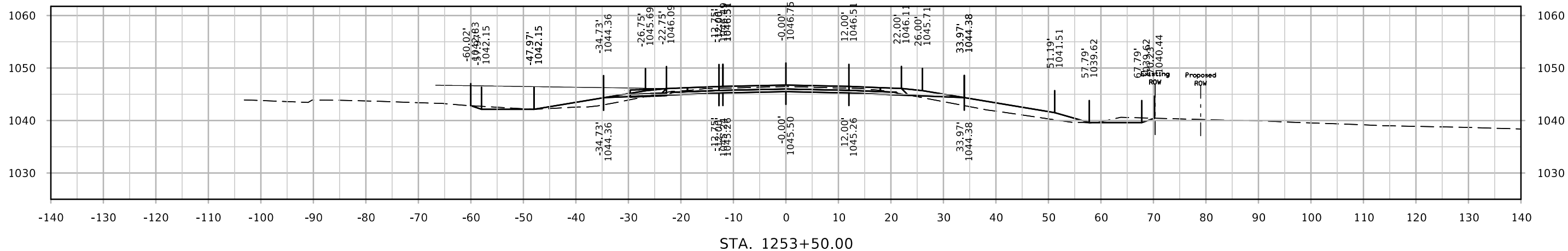


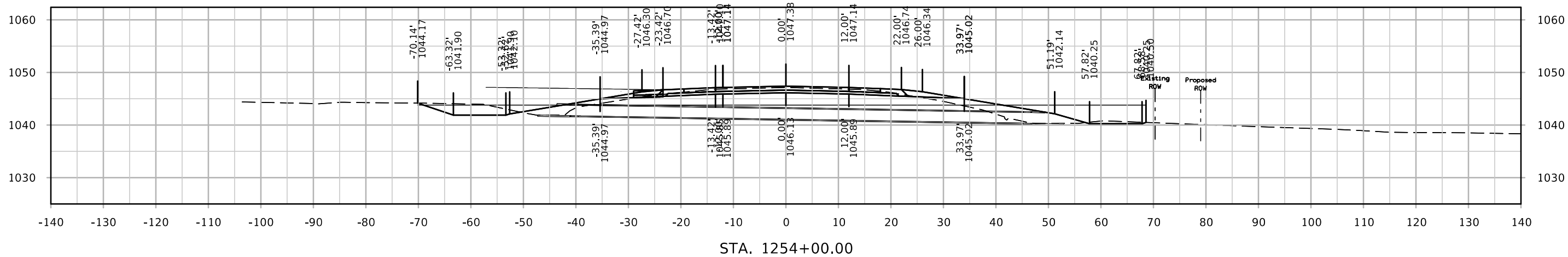
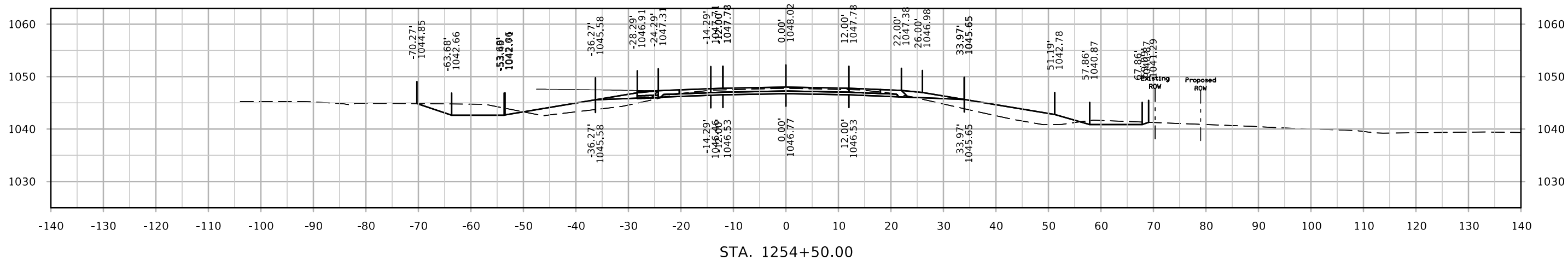
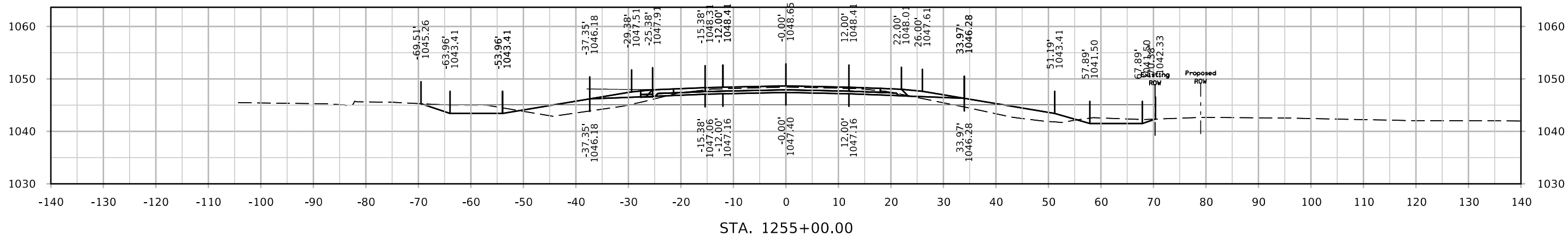


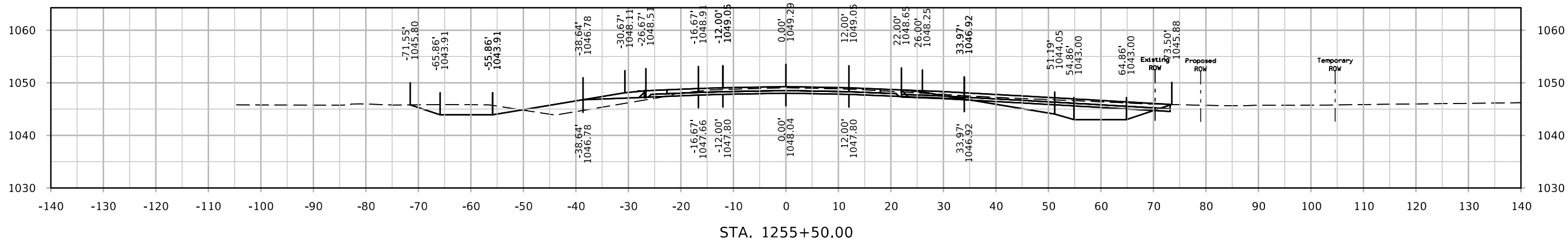
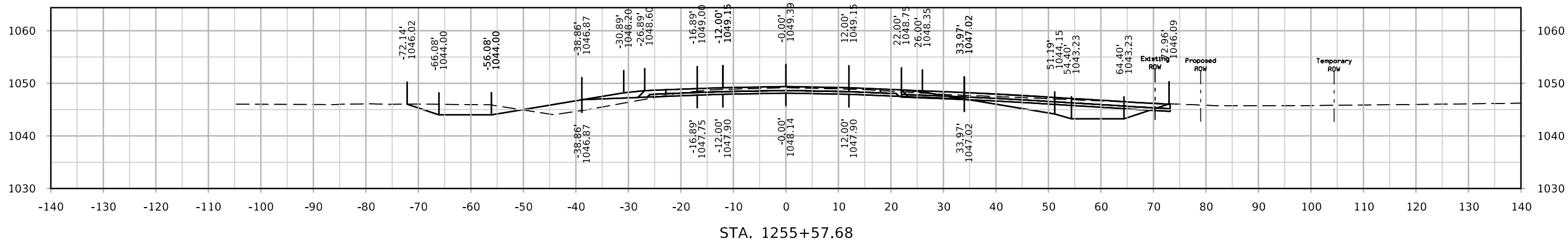
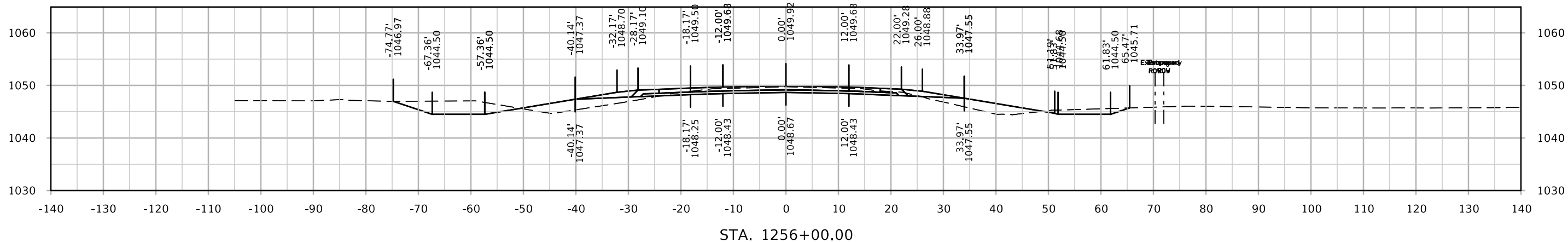


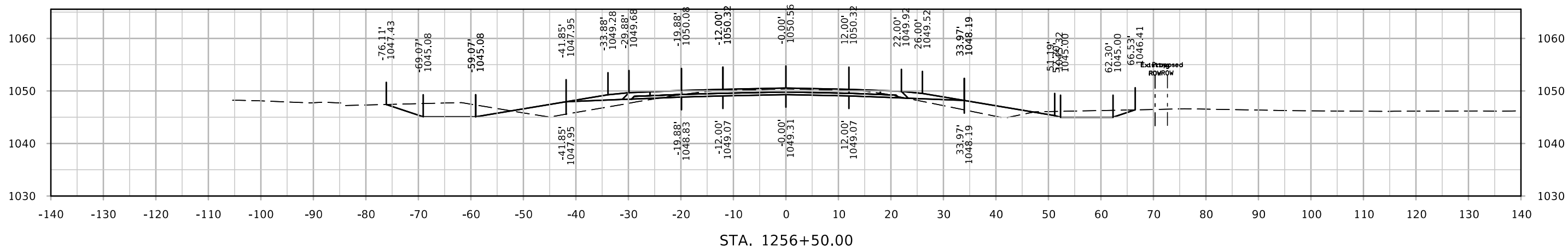
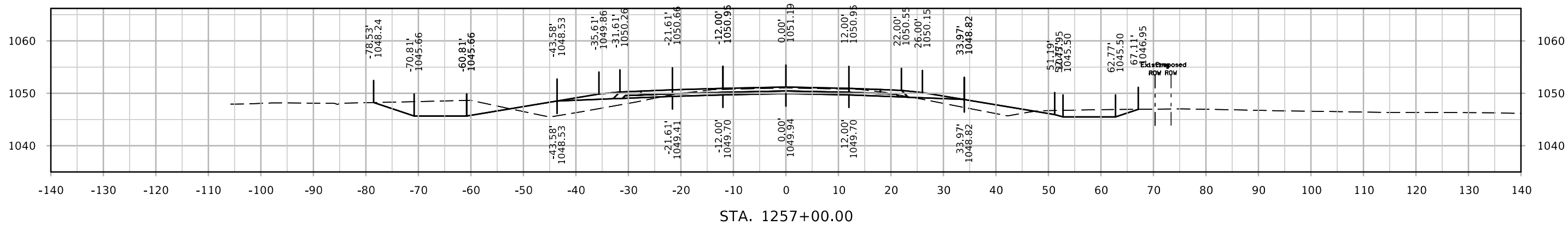
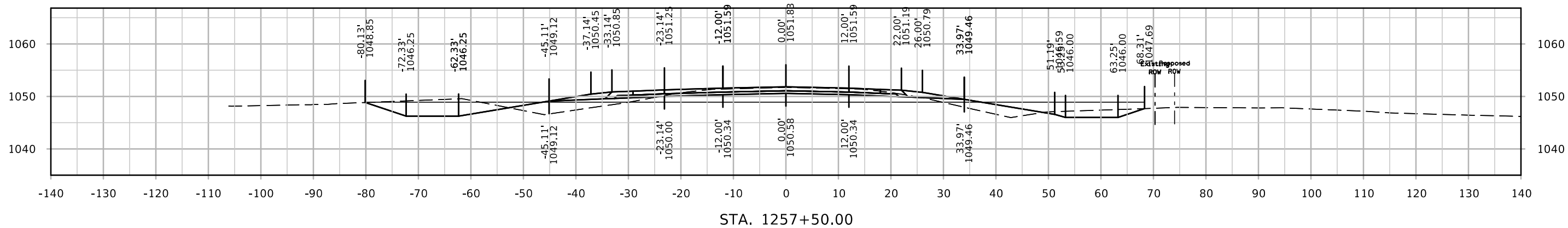


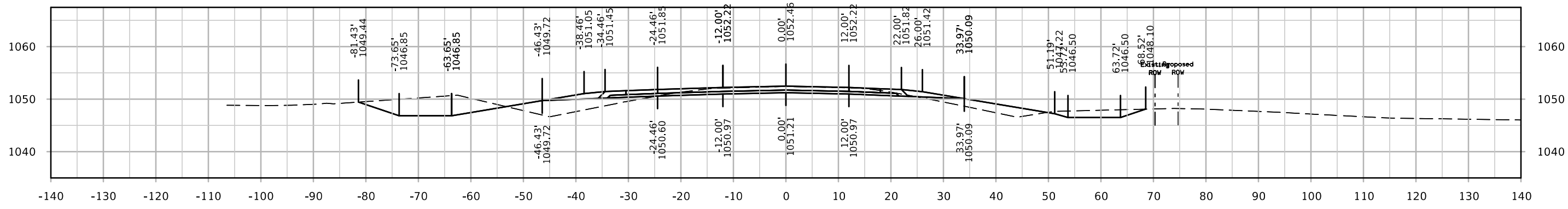
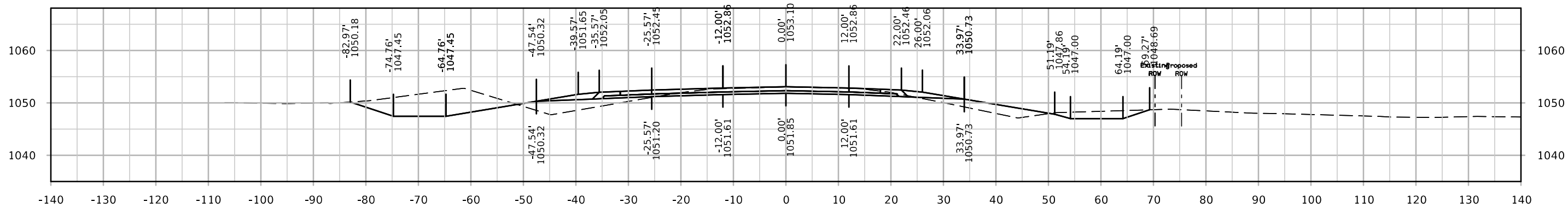
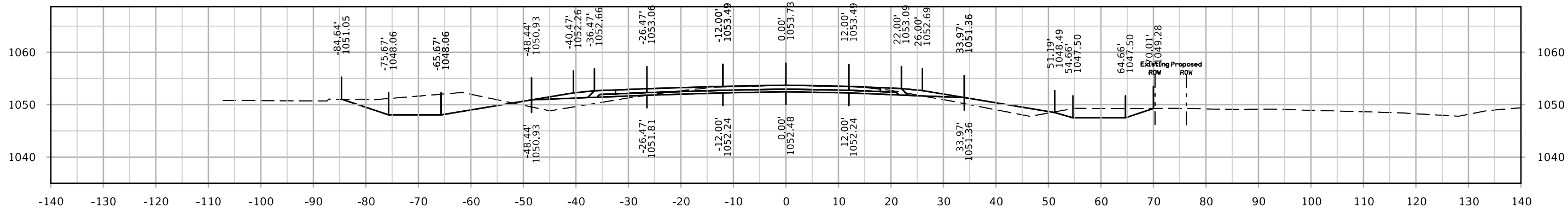


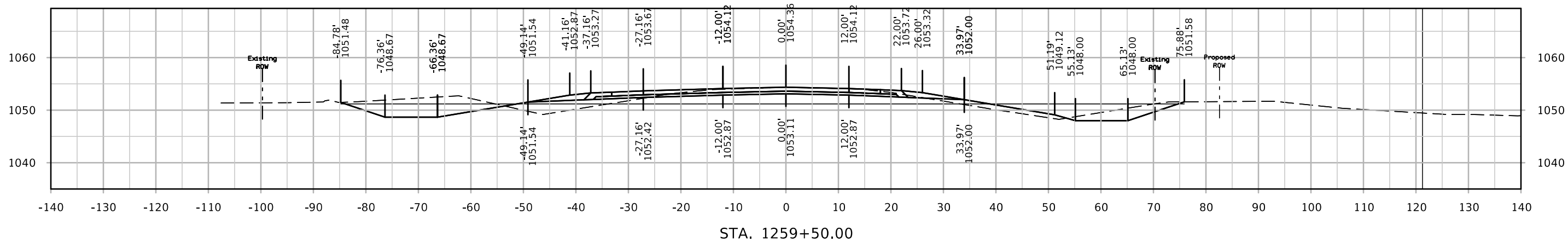
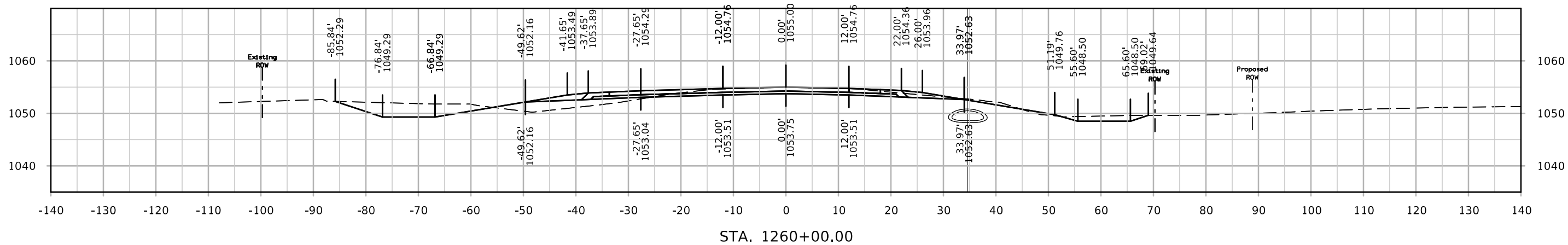


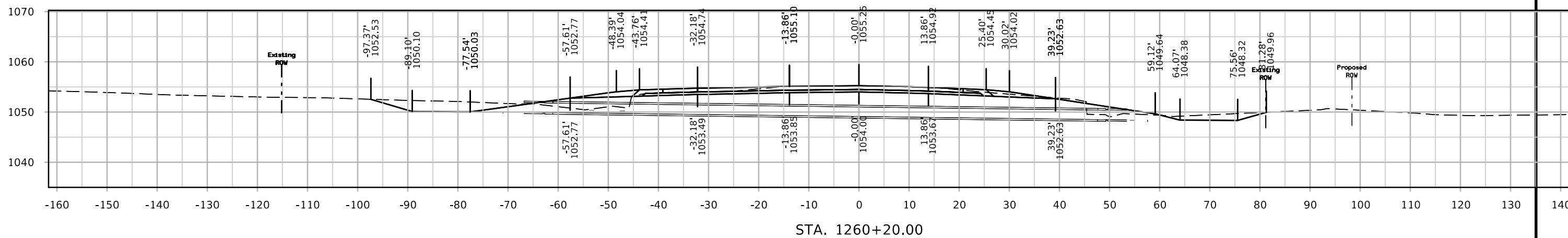
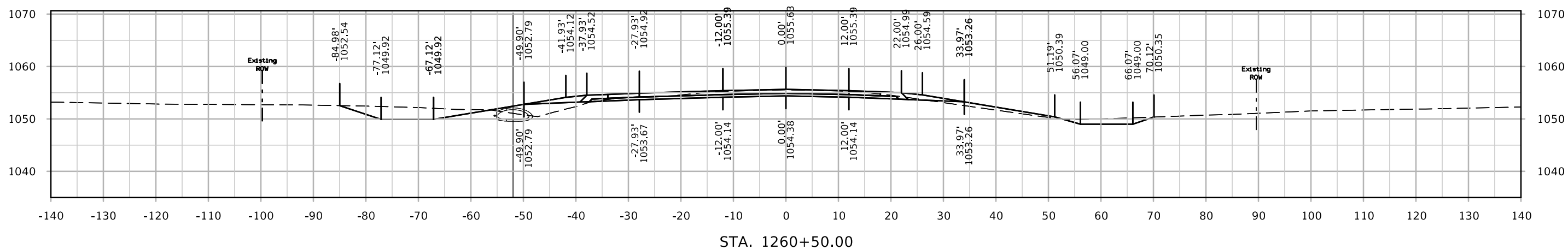
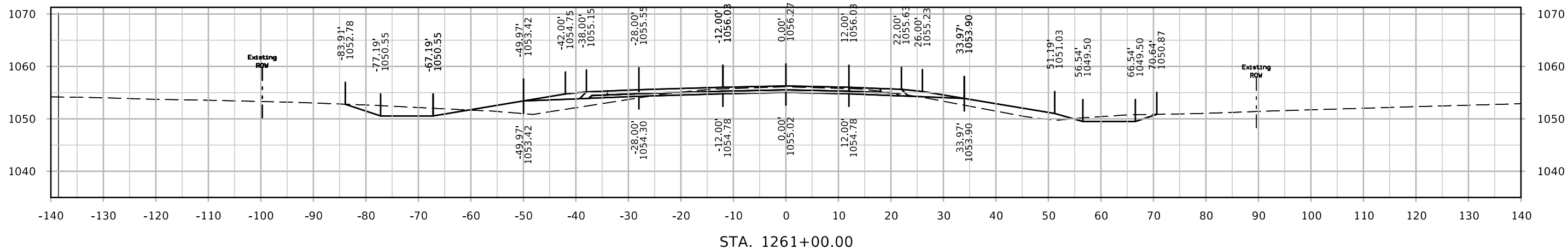




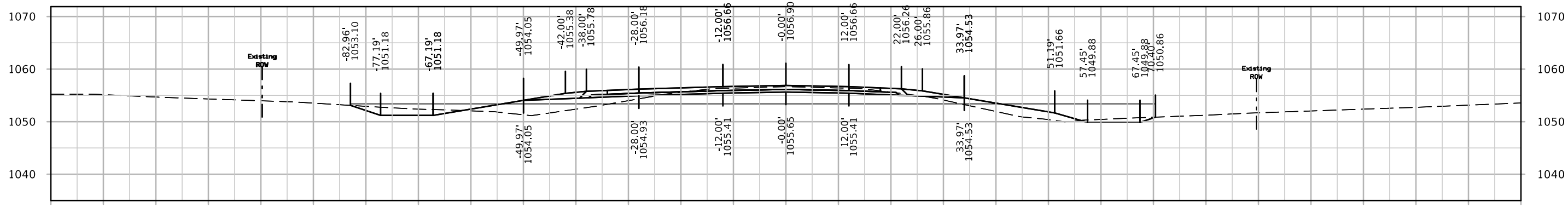
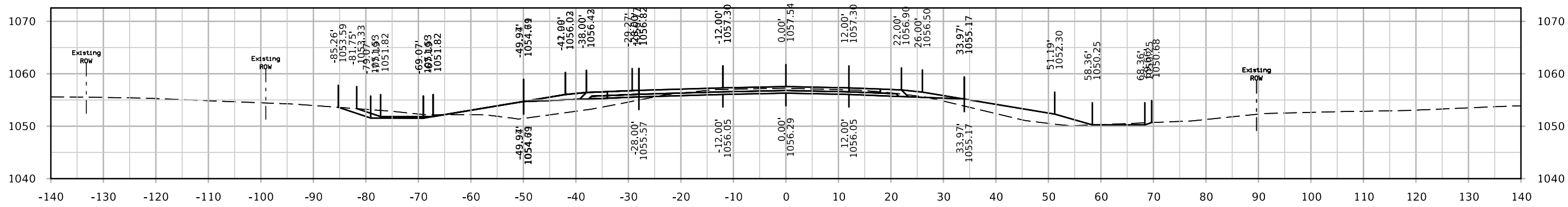
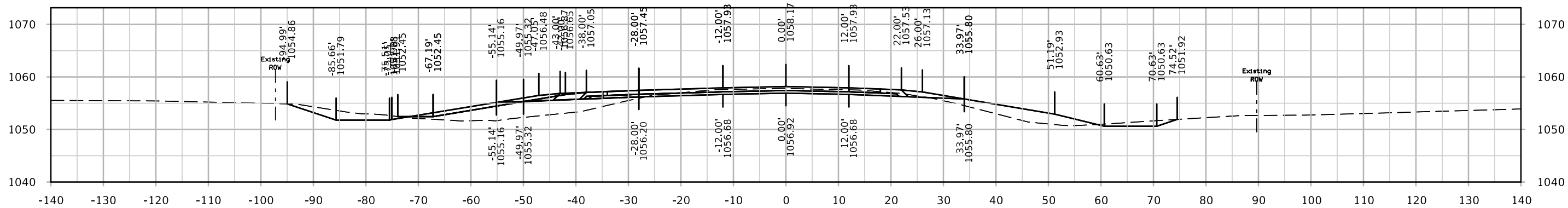


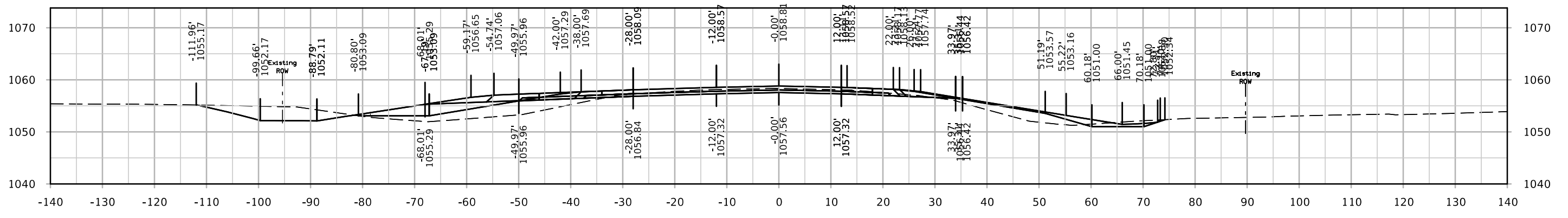
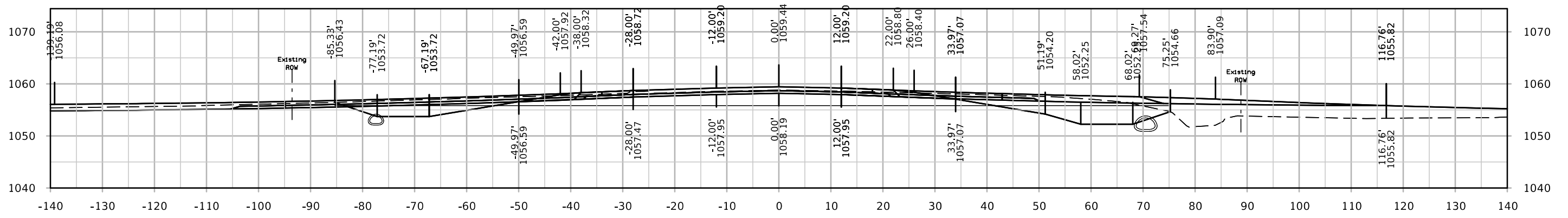
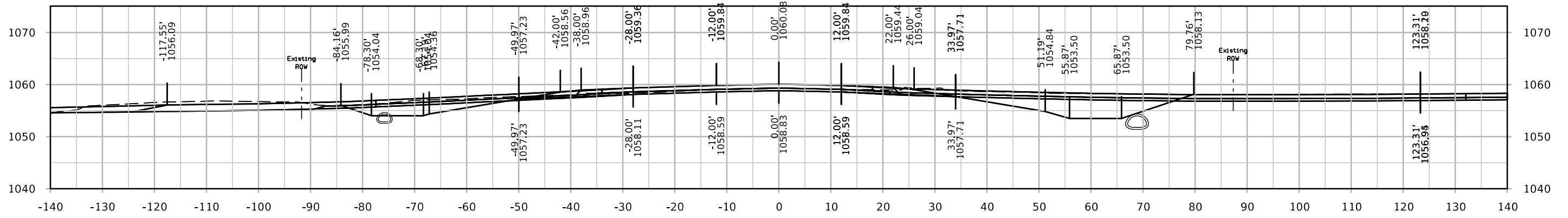


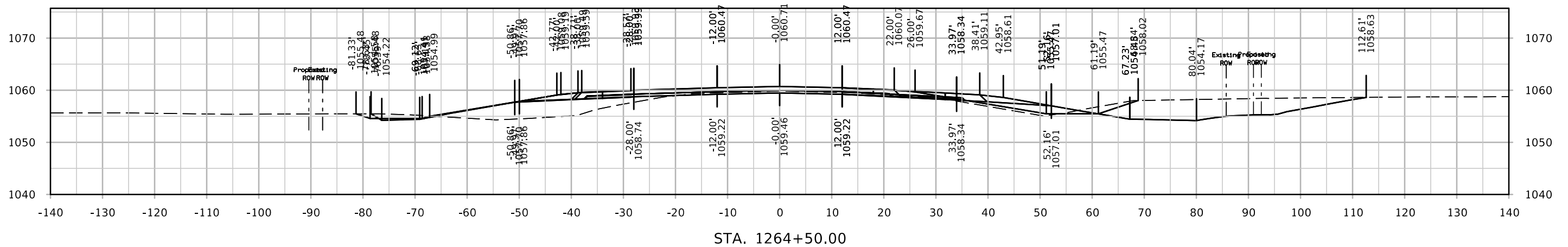
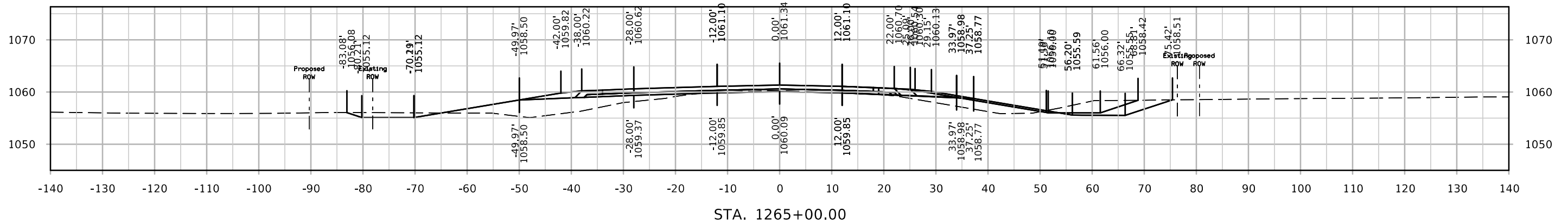
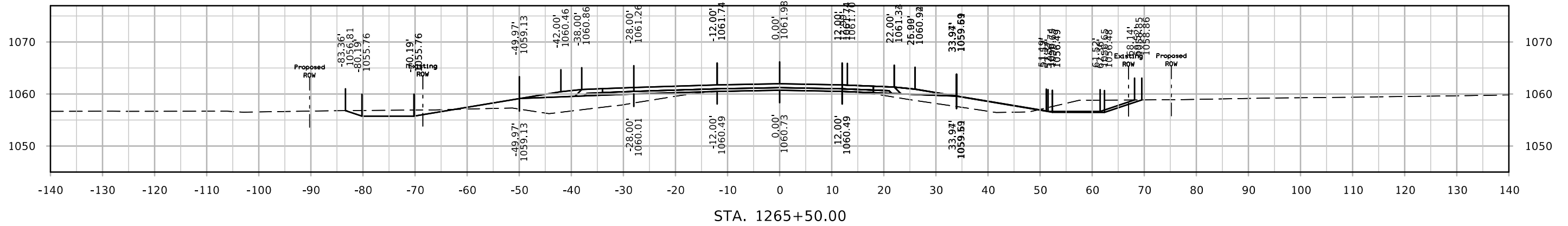


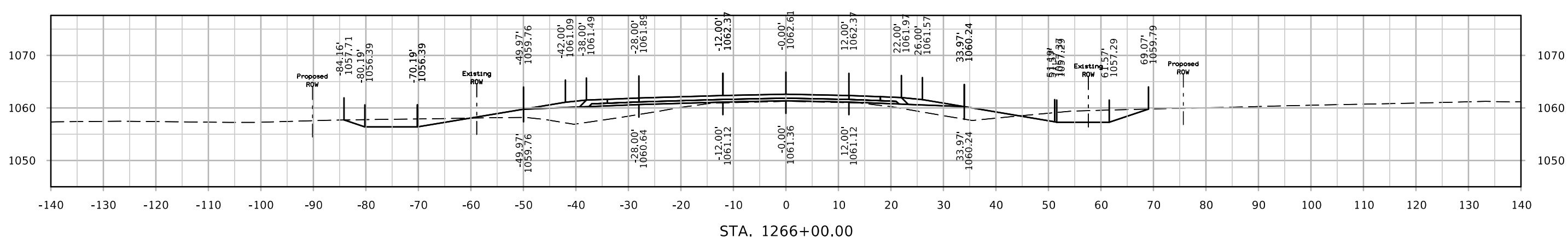
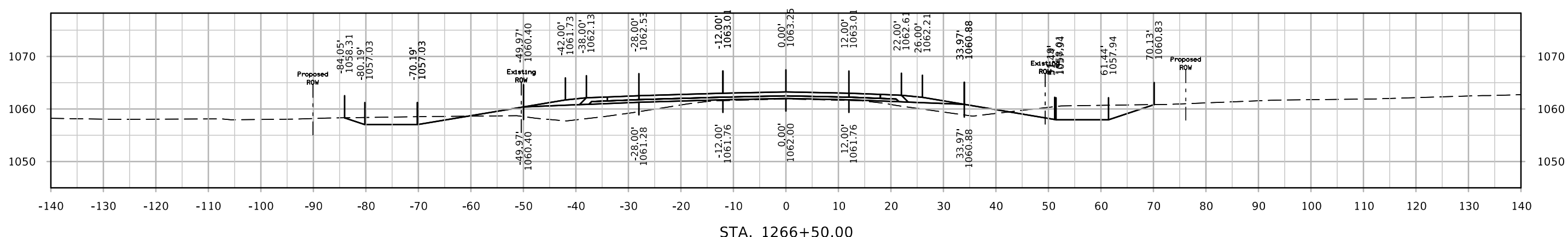
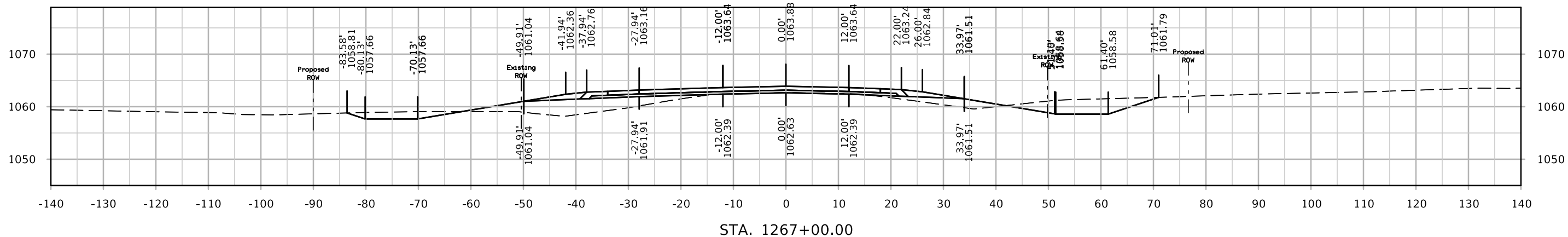


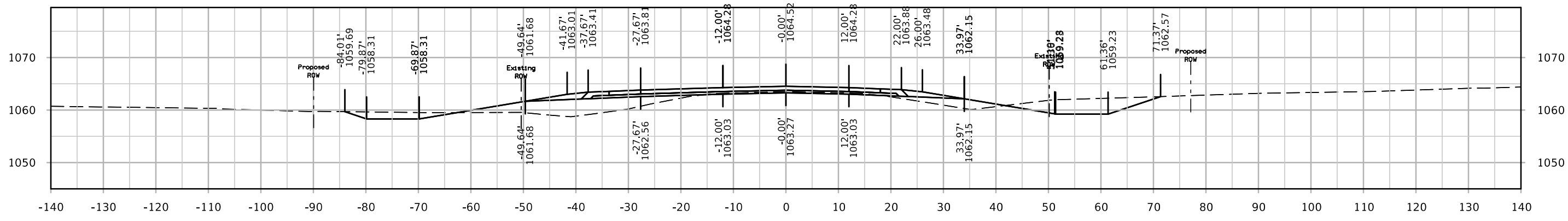
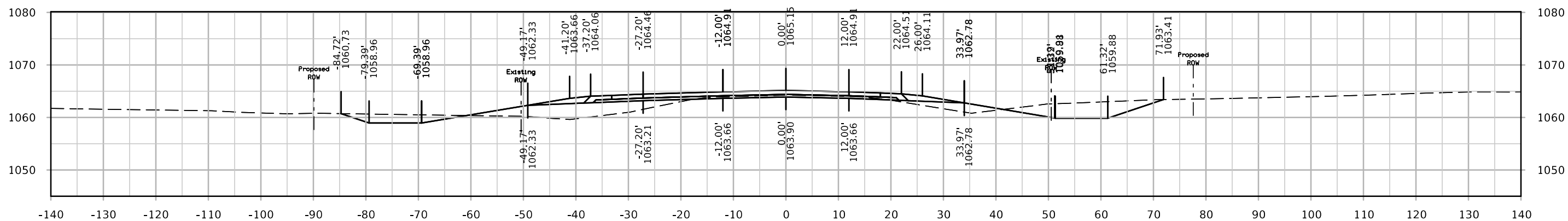
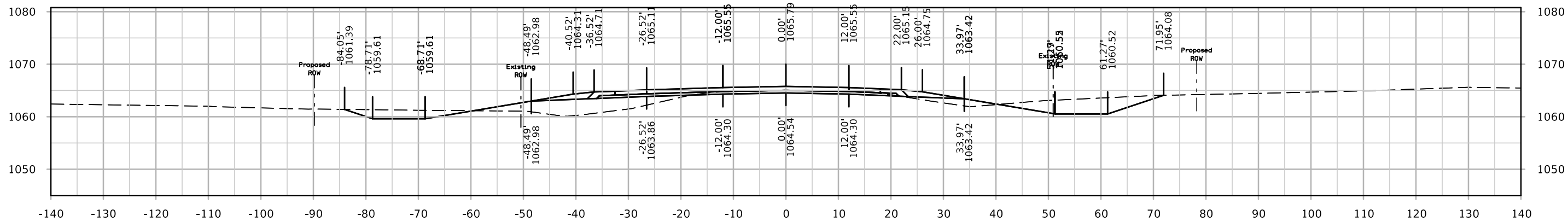


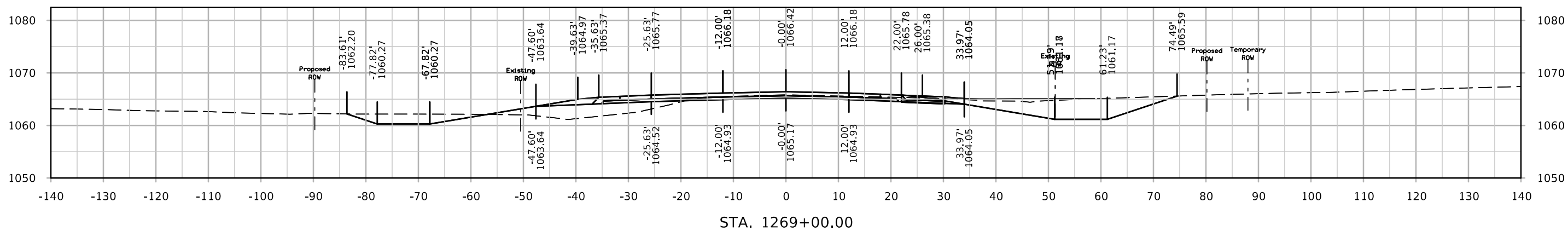
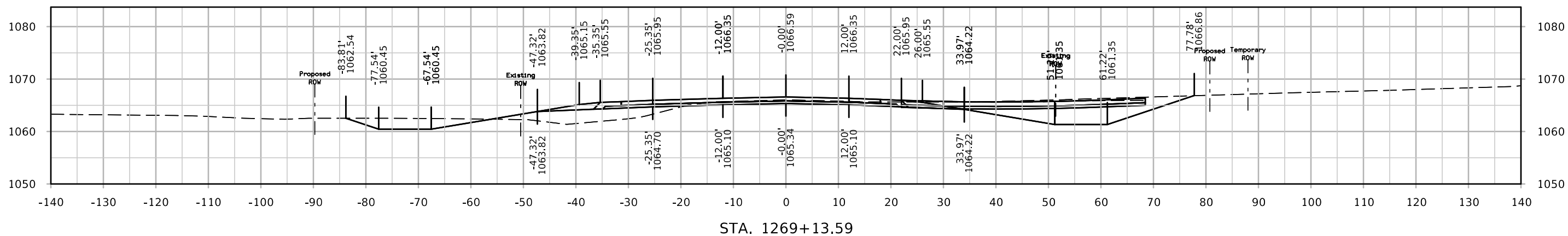
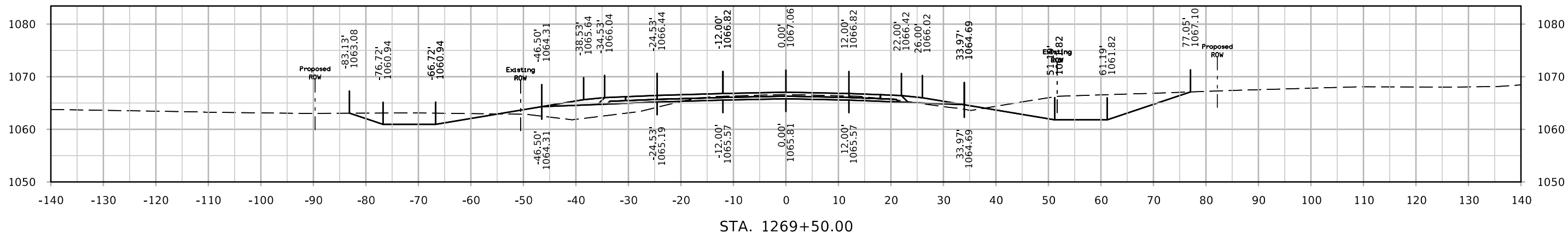


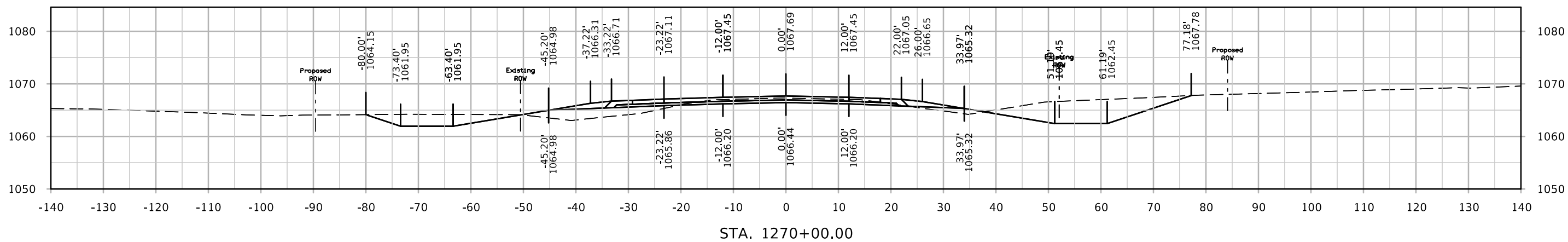
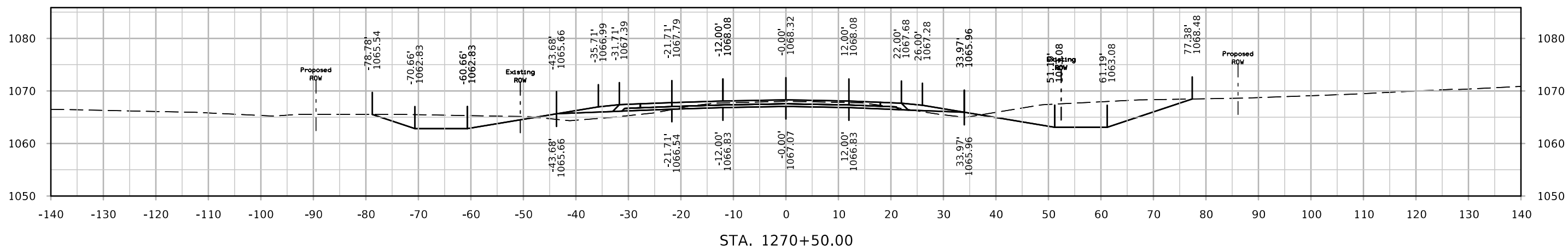
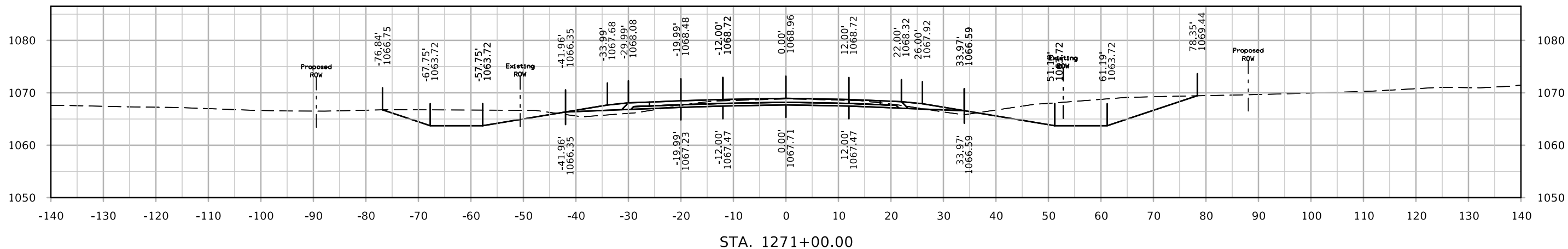


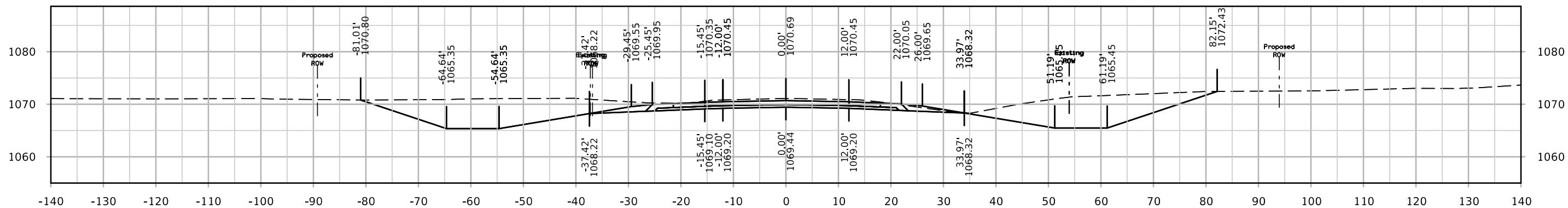




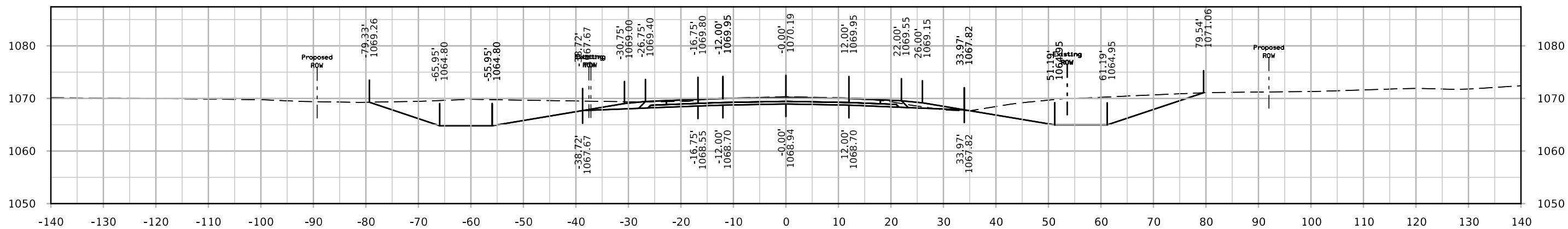




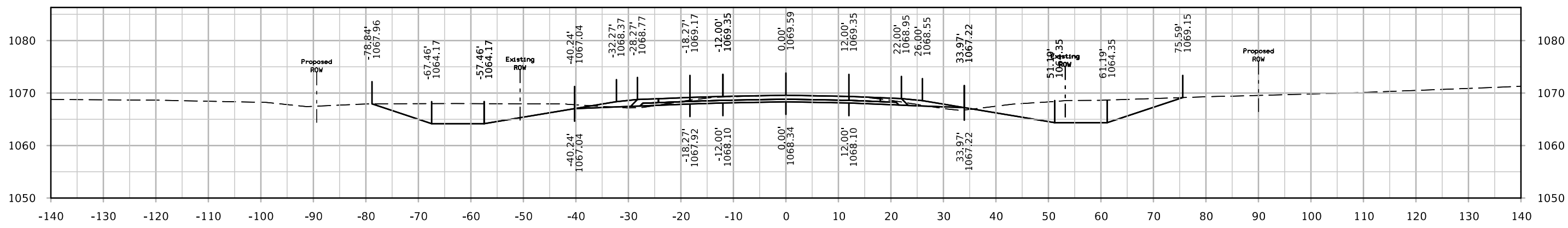




STA. 1272+50.00

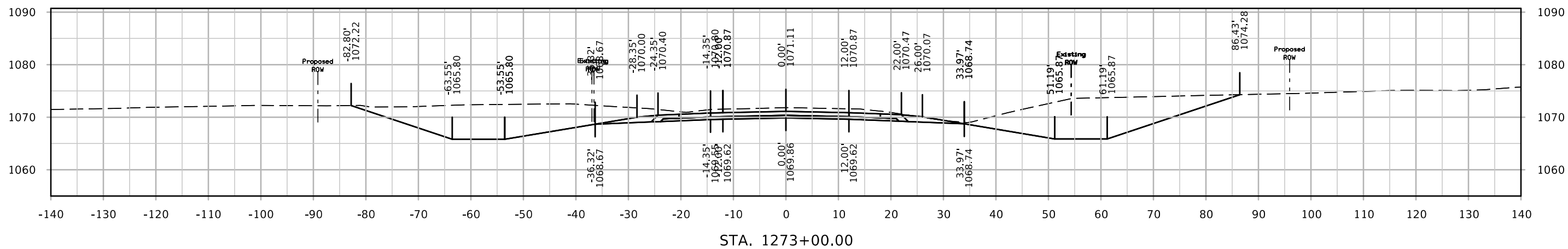
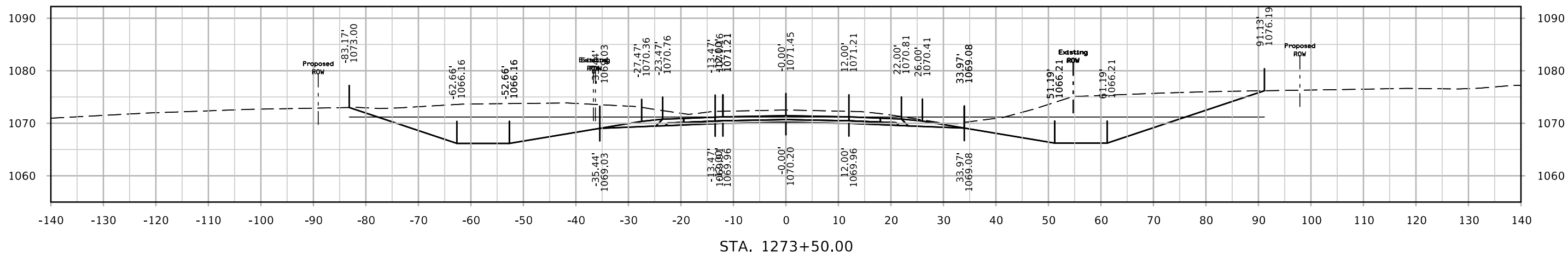
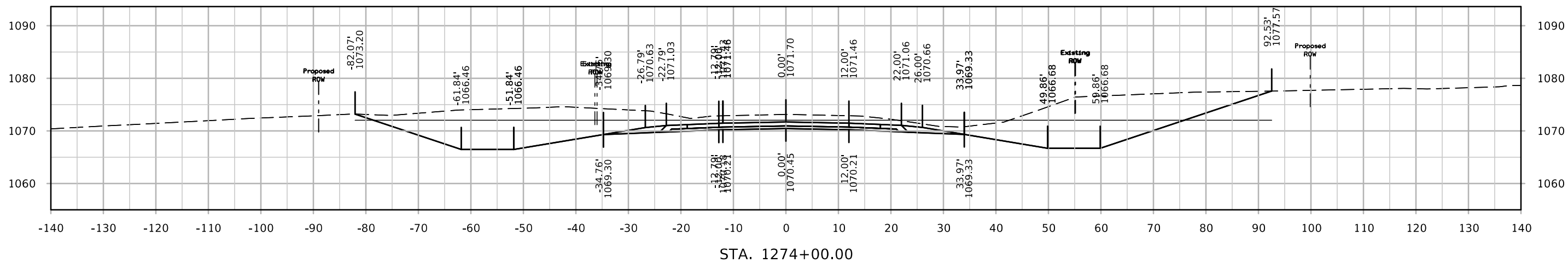


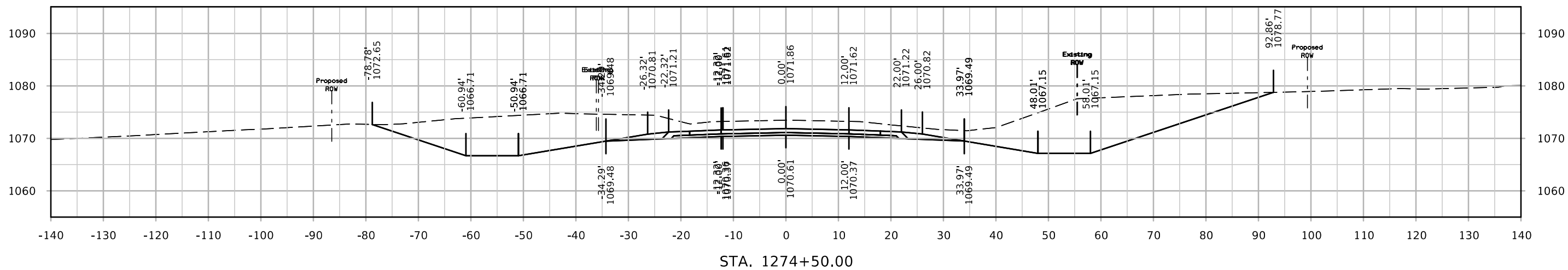
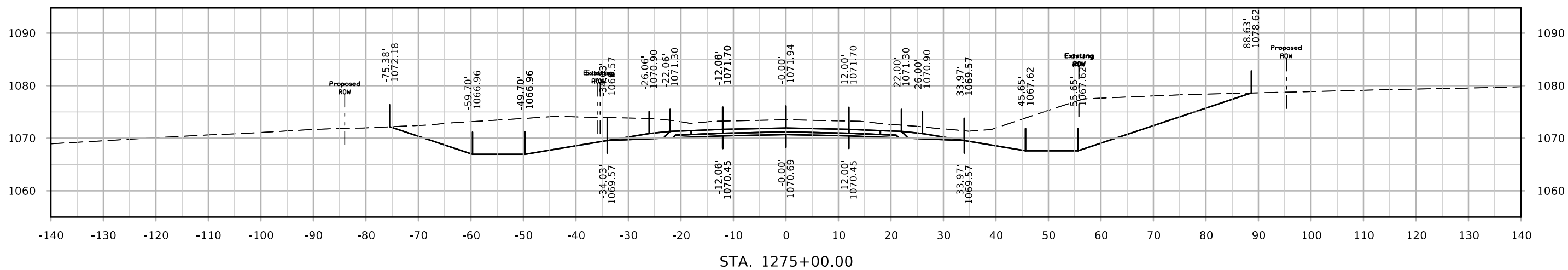
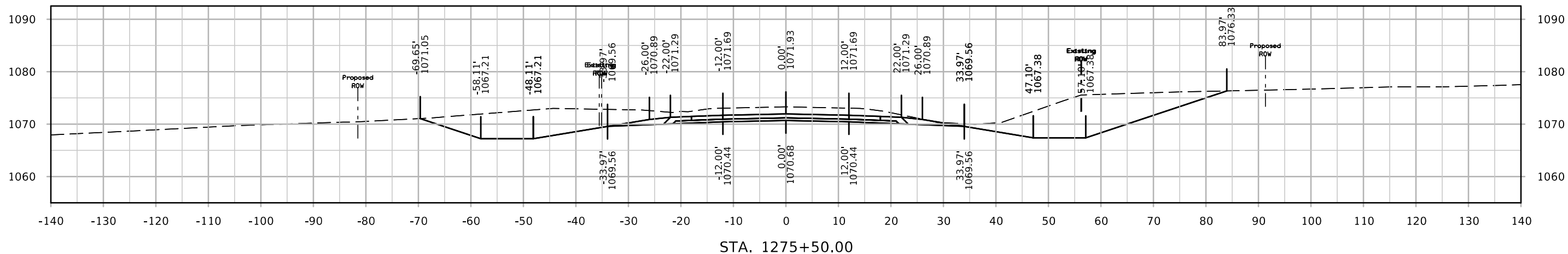
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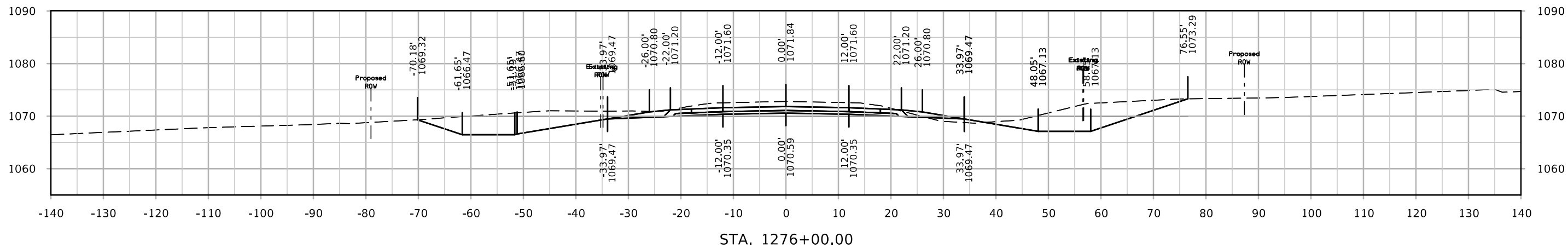
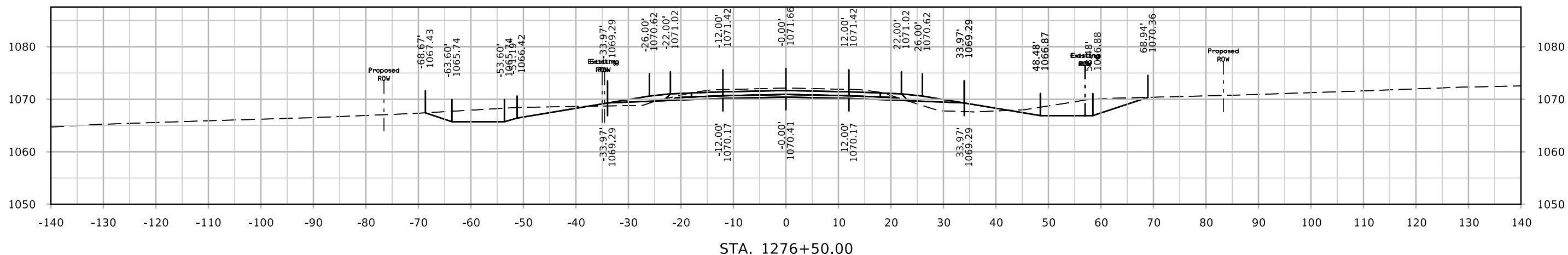
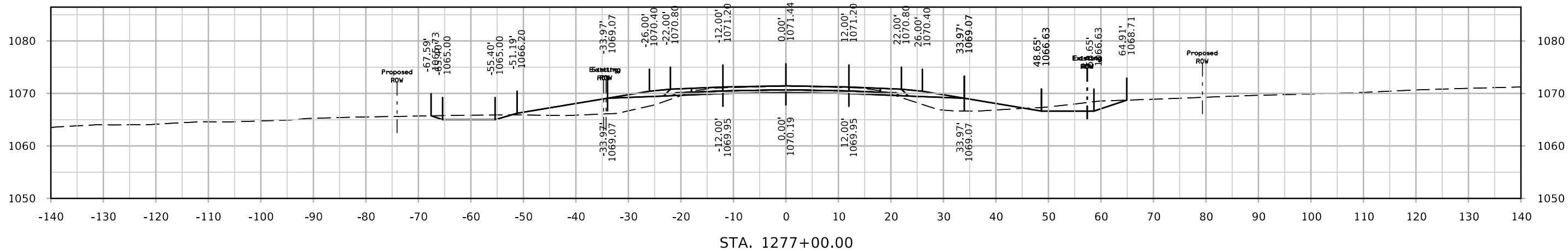


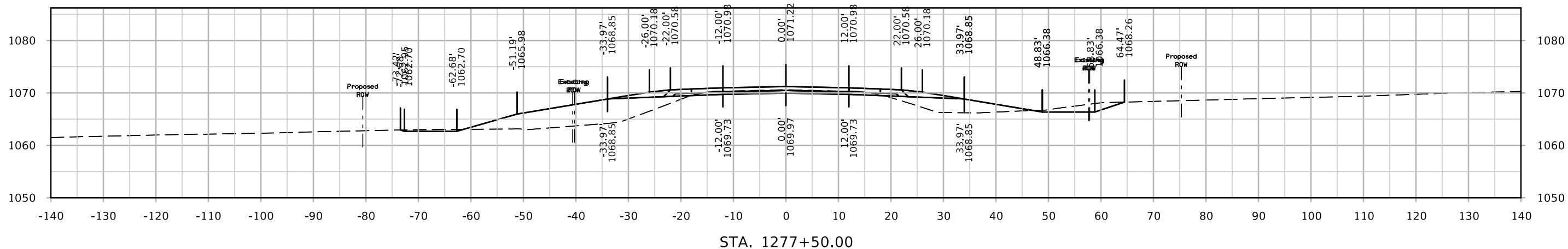
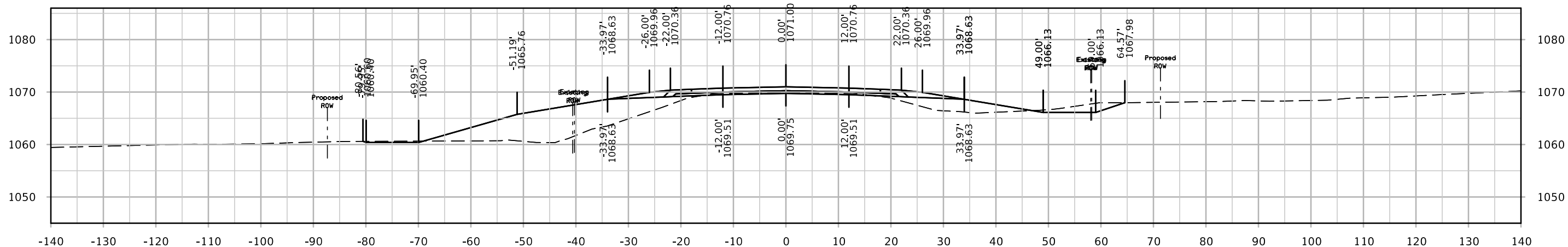
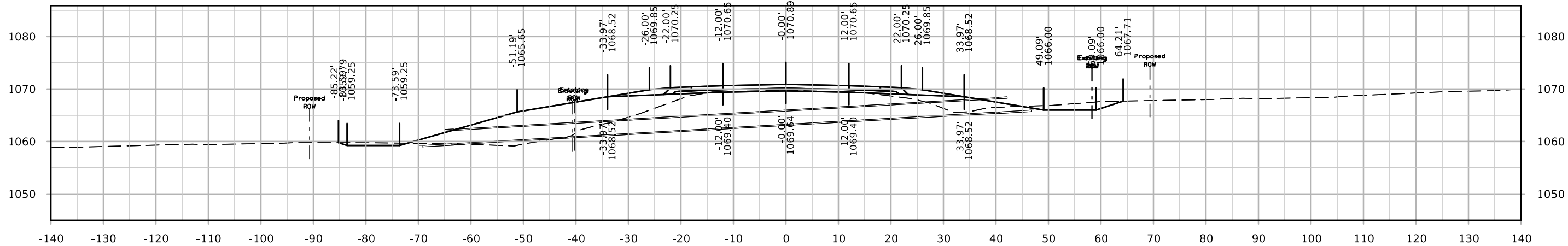
STA. 1271+50.00

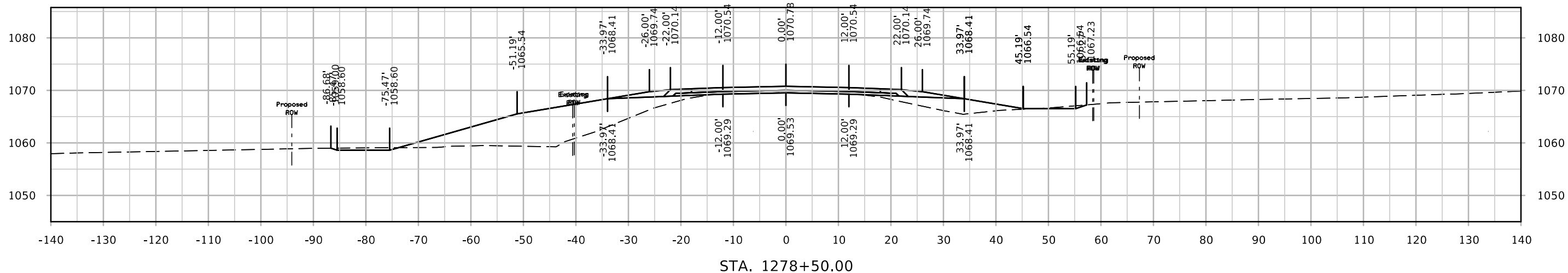
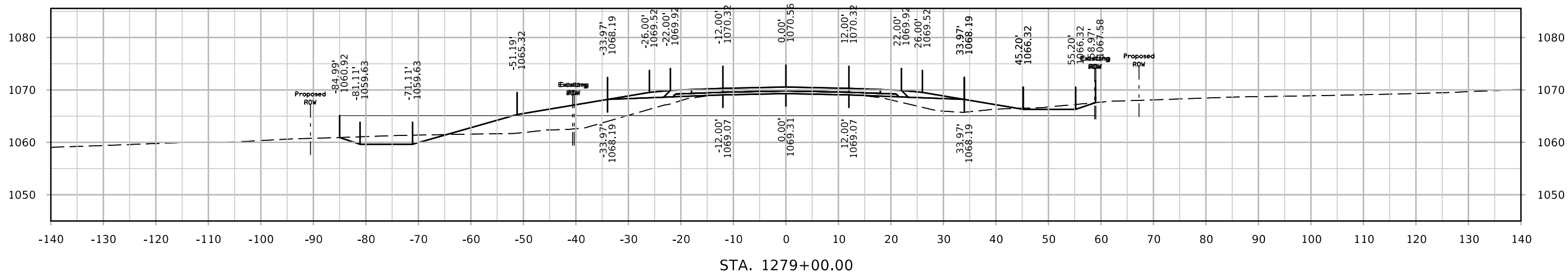
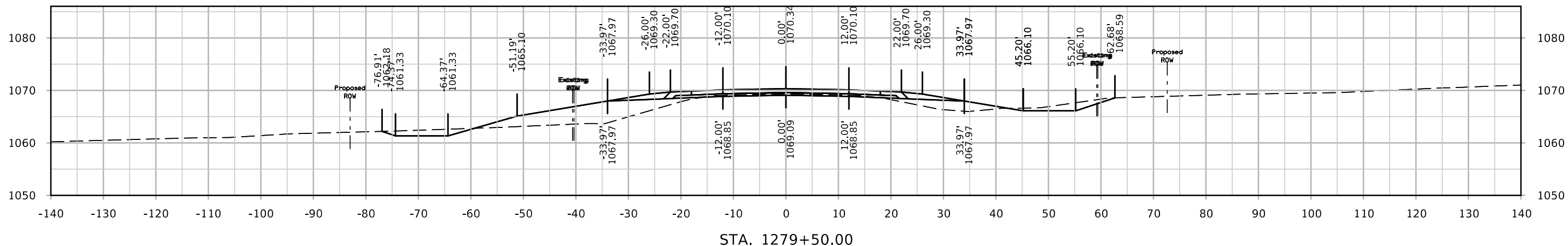


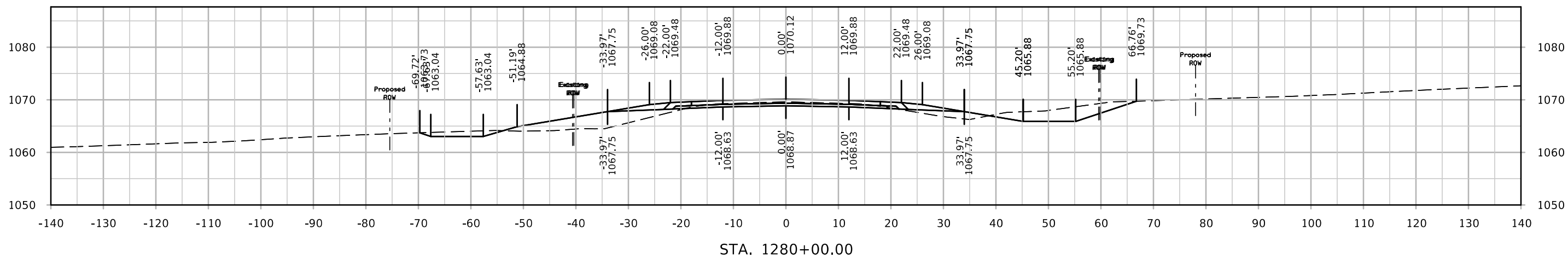
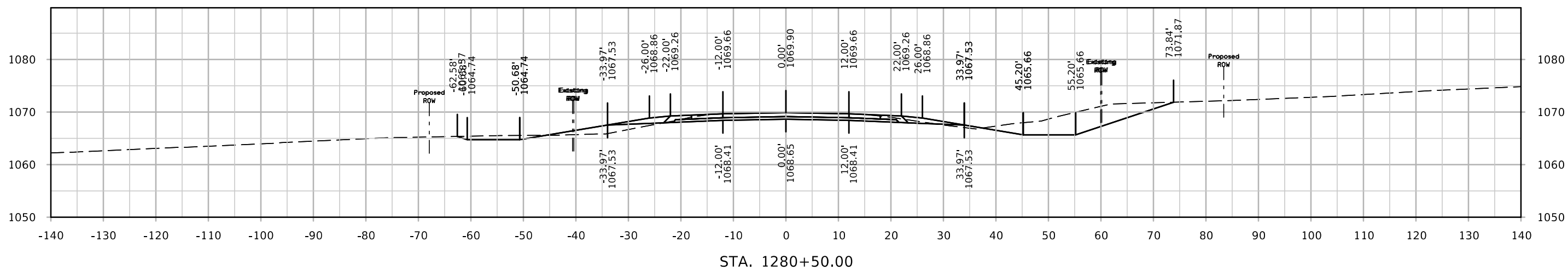
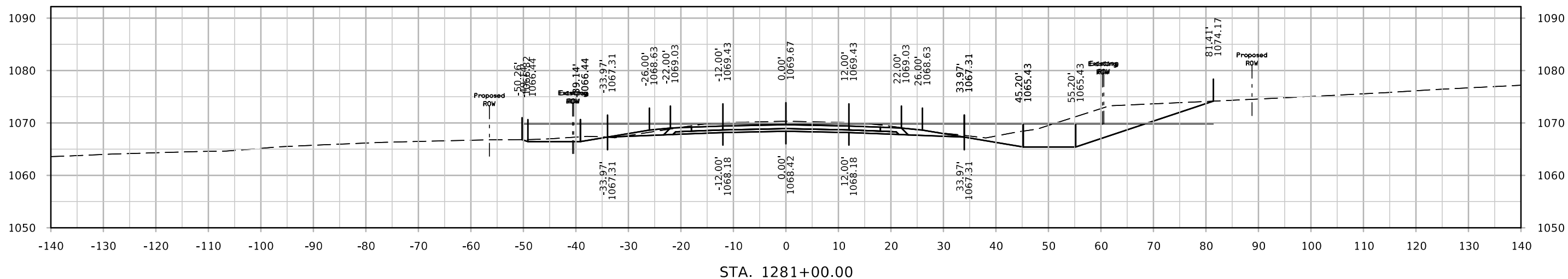




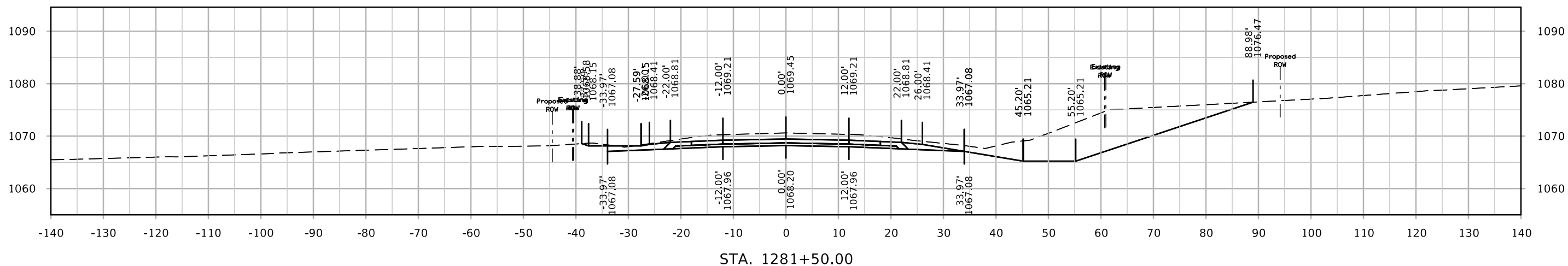
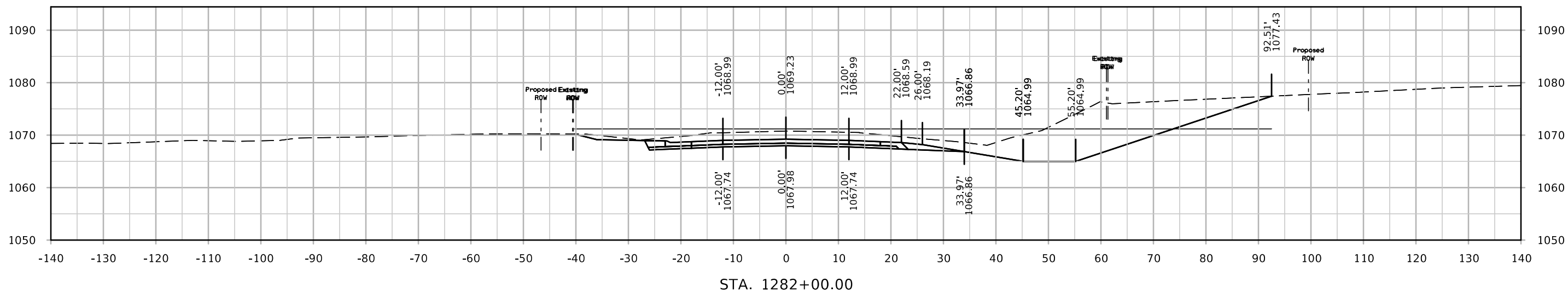
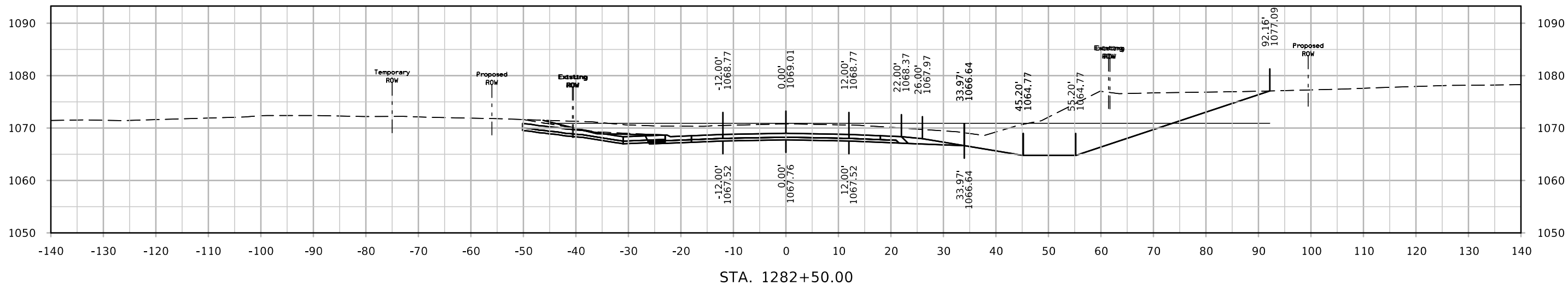




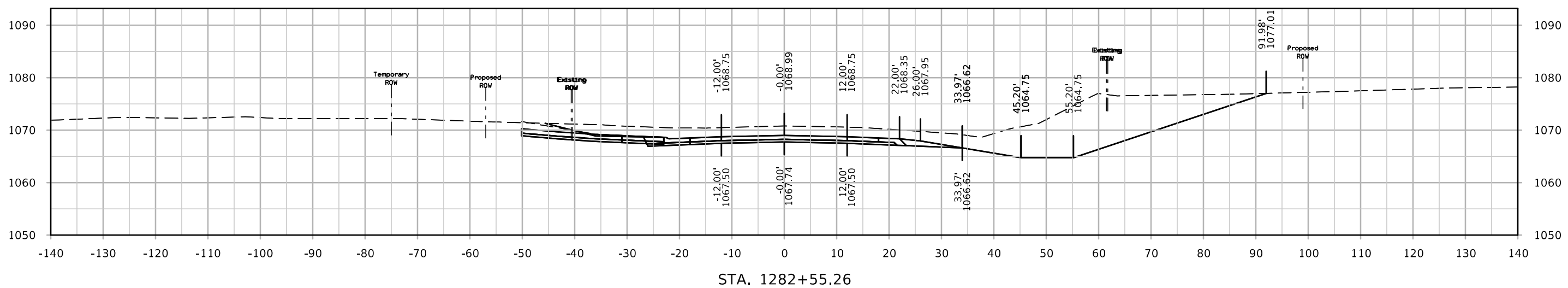
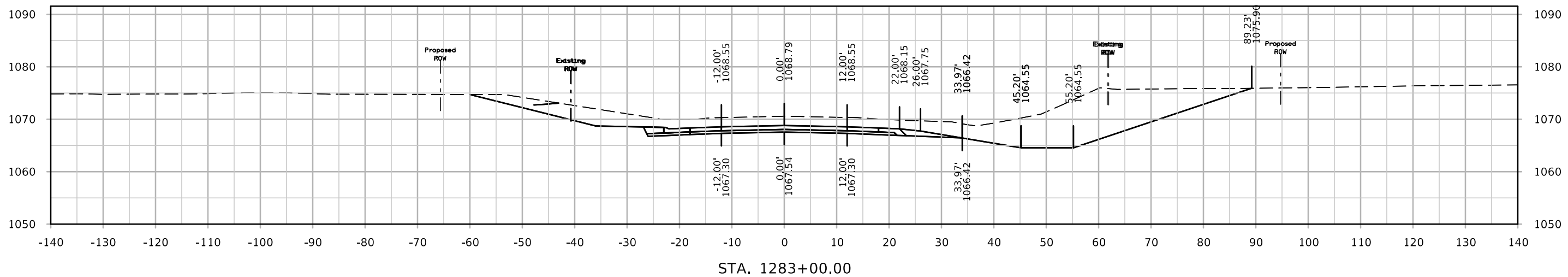
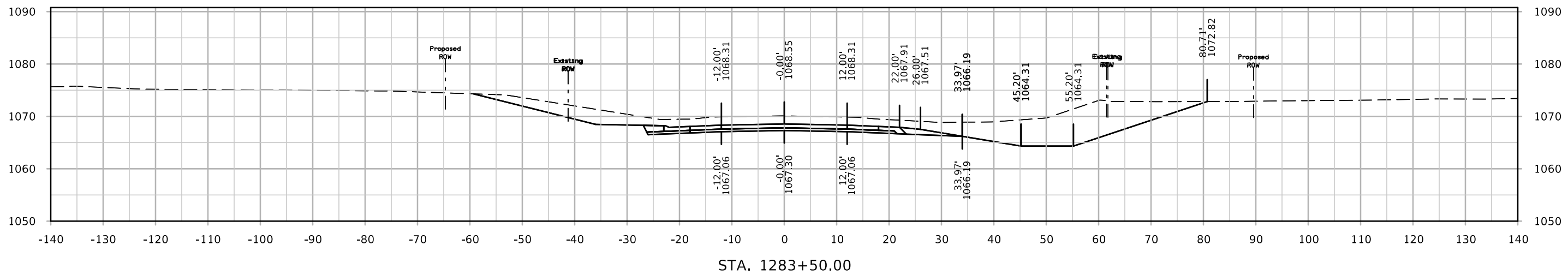




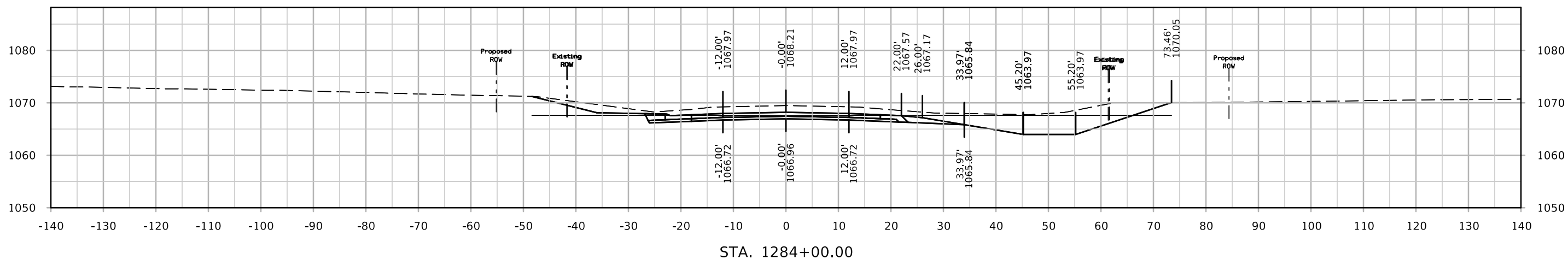
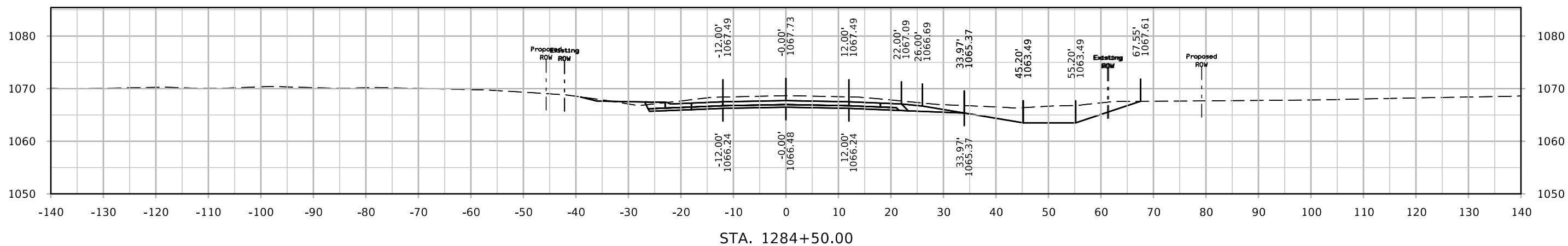
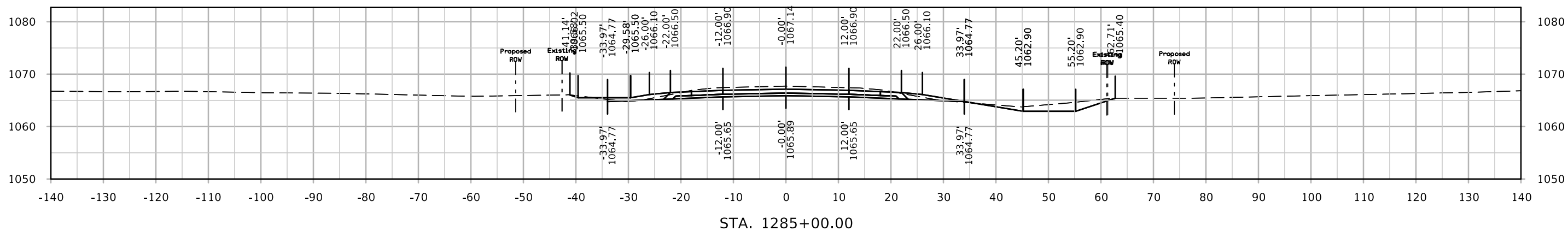
# IA 13

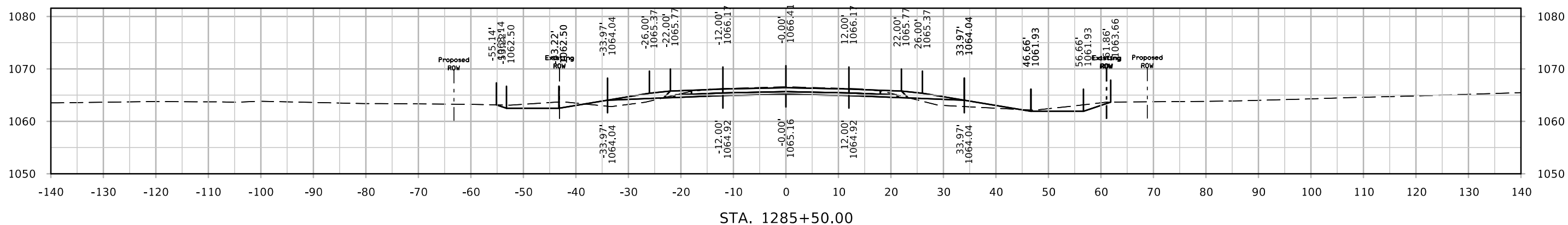
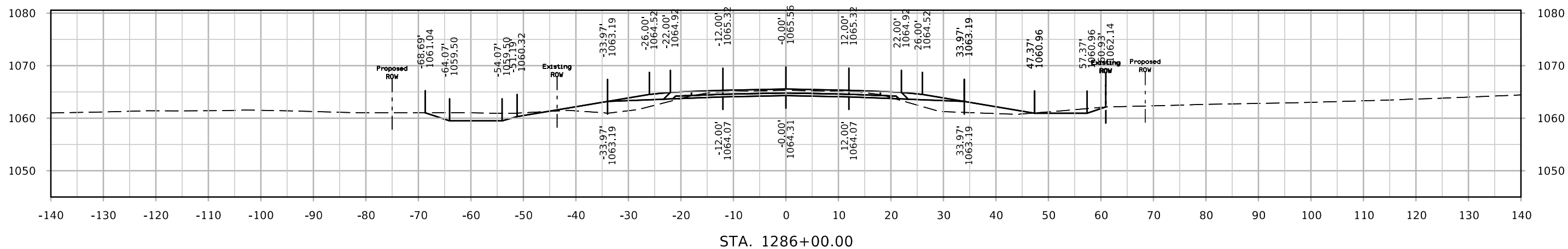
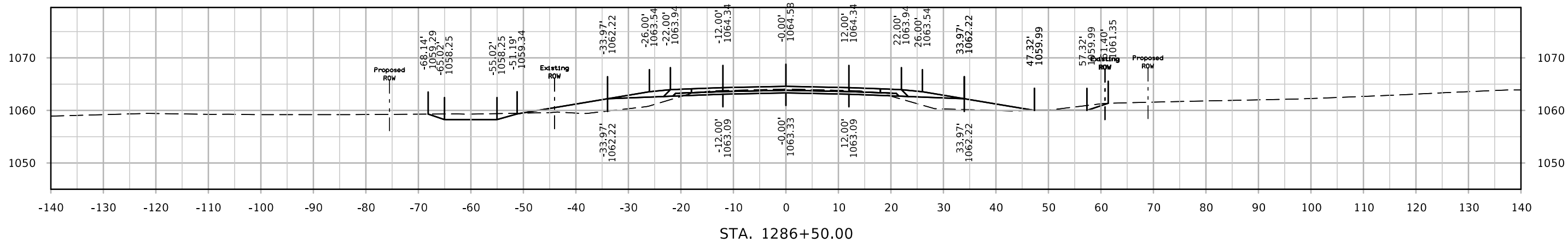


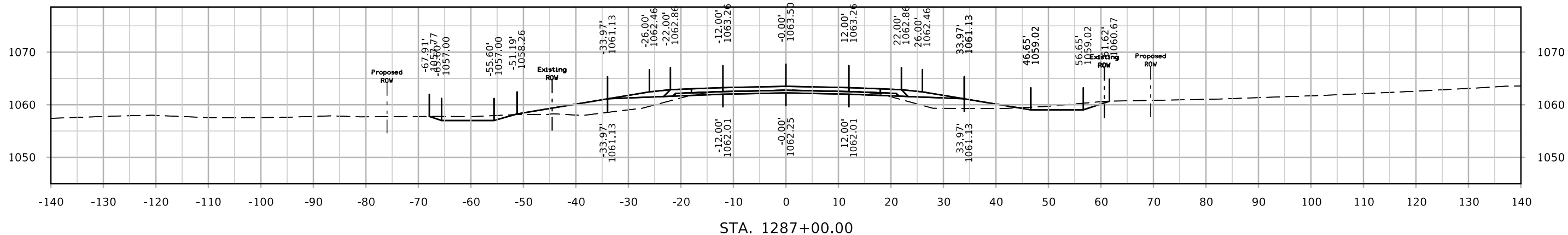
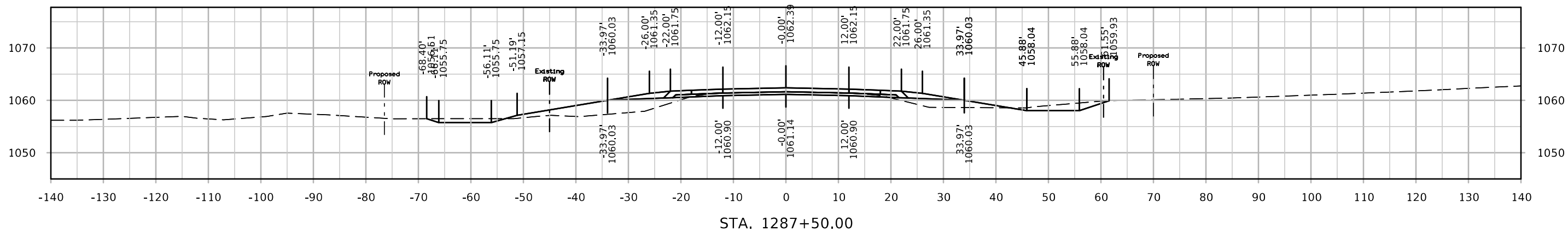
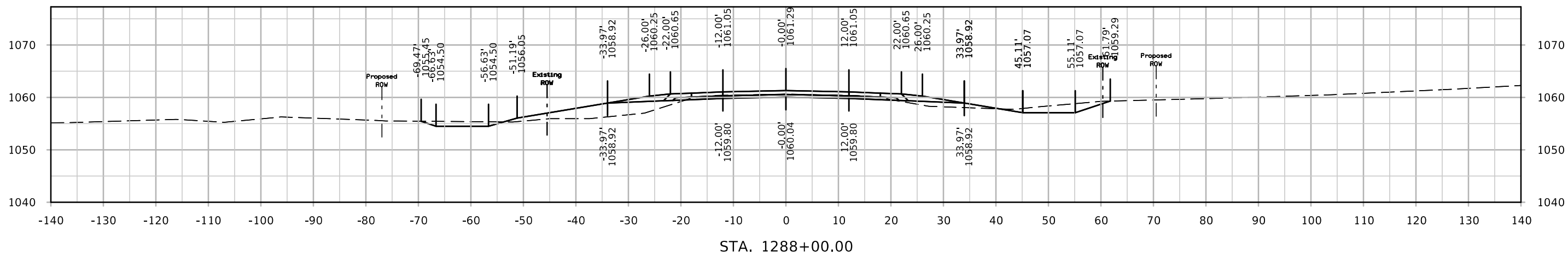
# IA 13

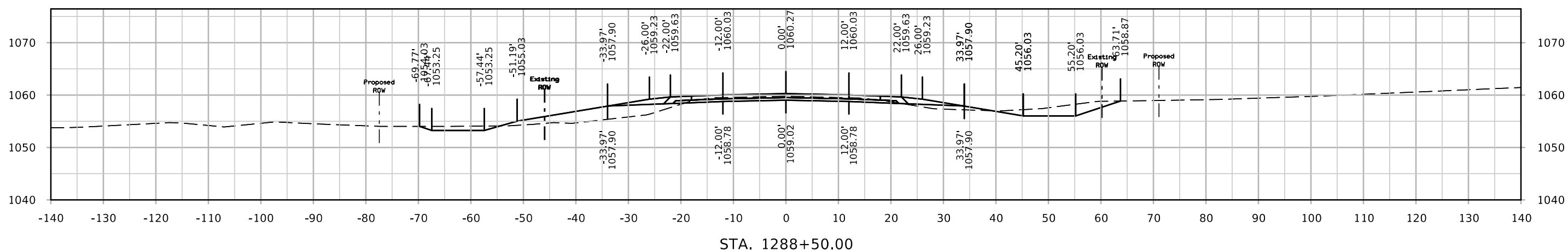
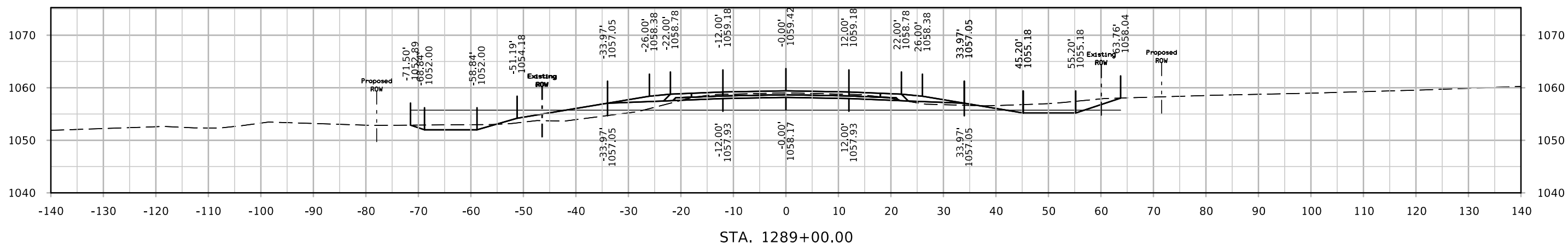
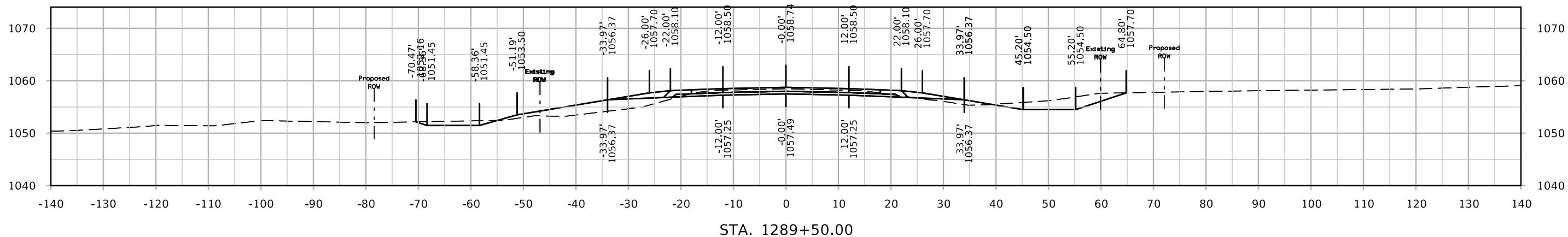


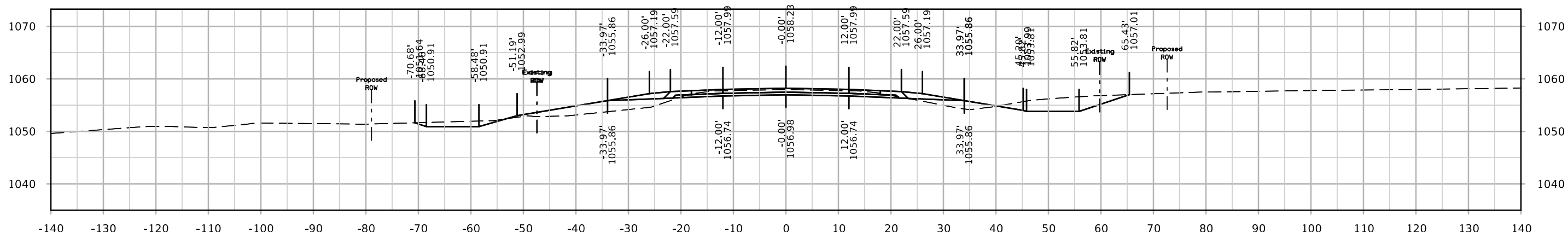
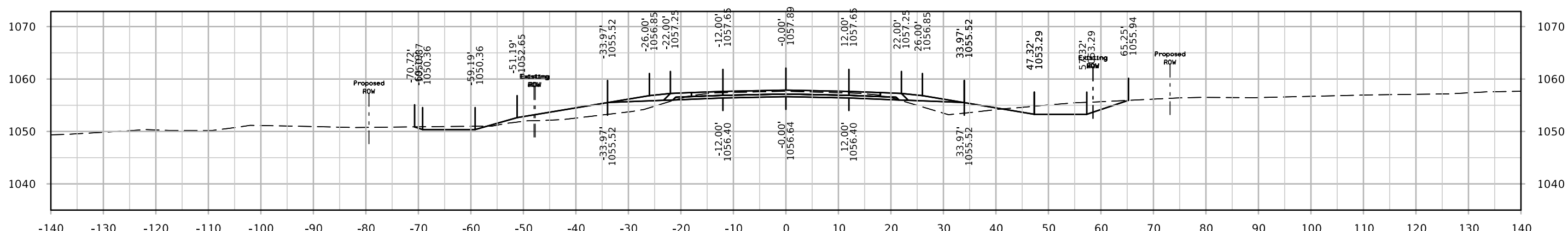
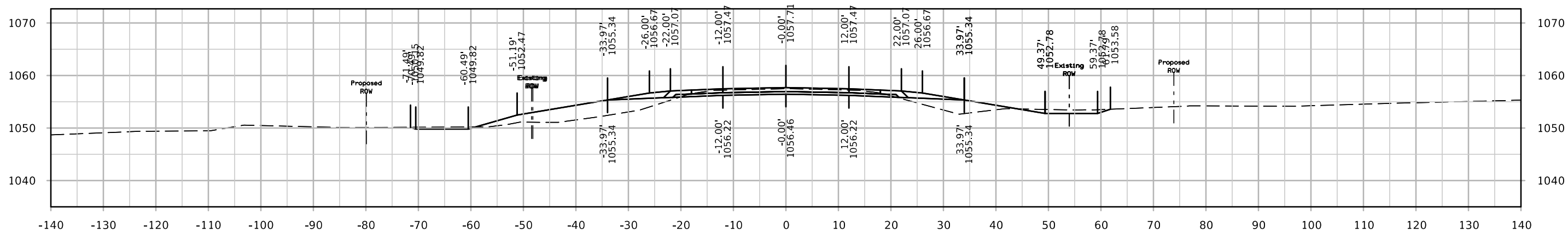


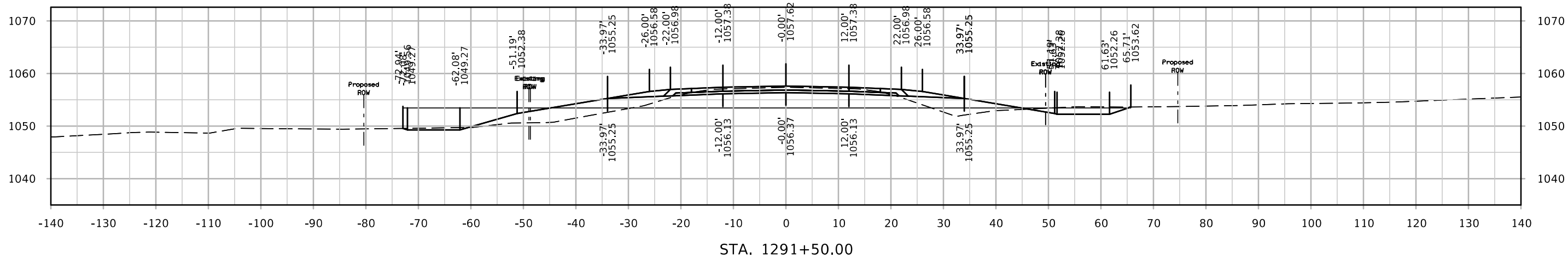
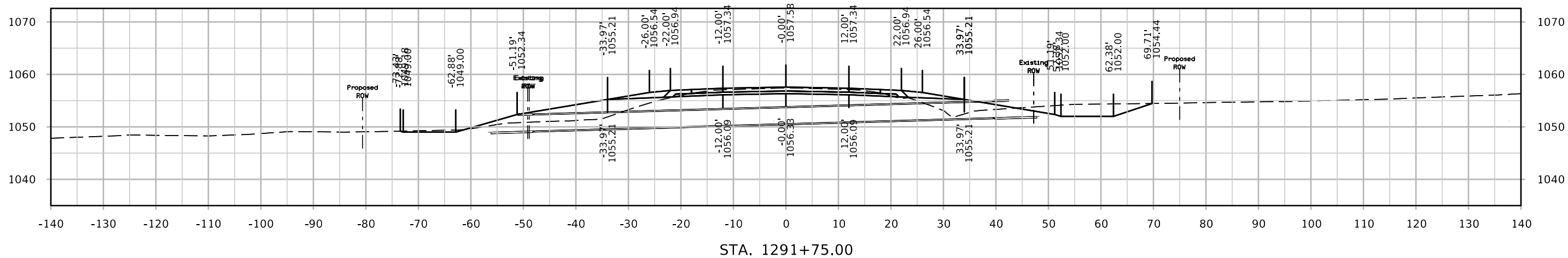
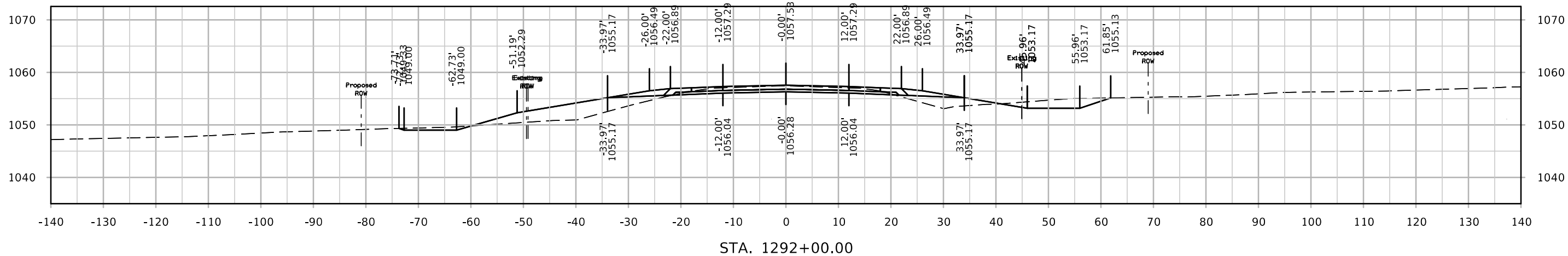


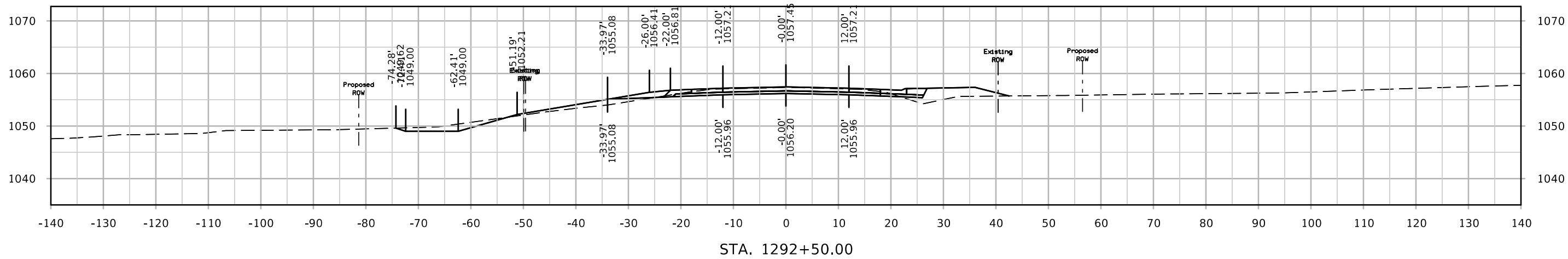
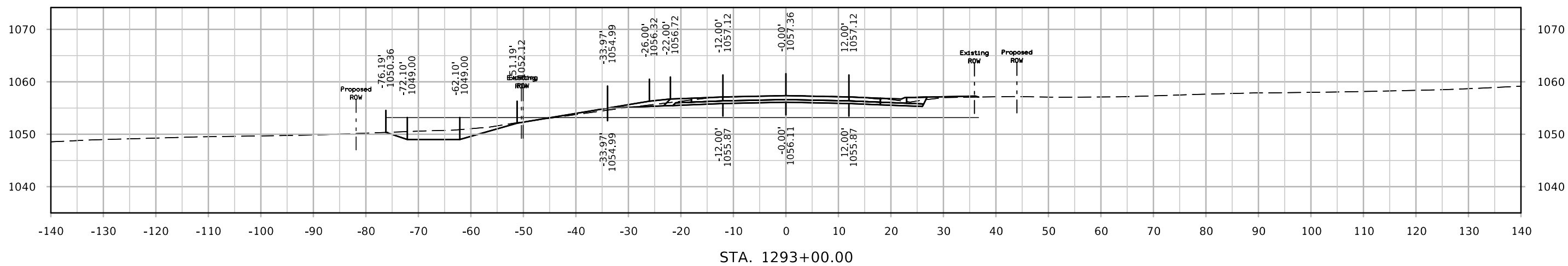
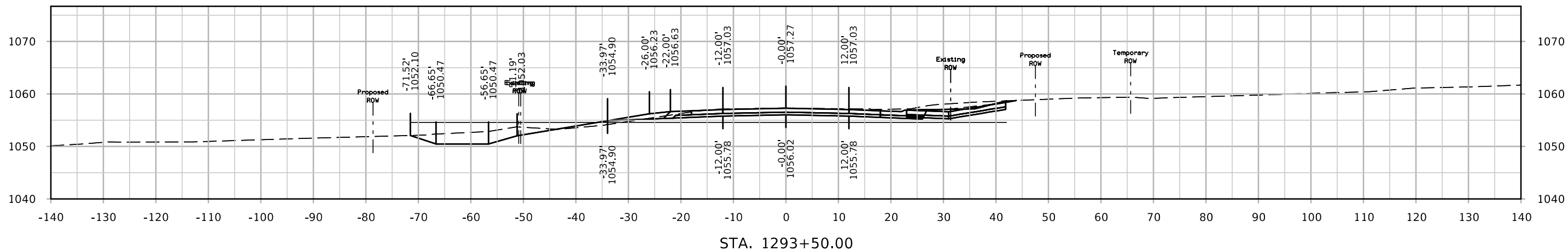


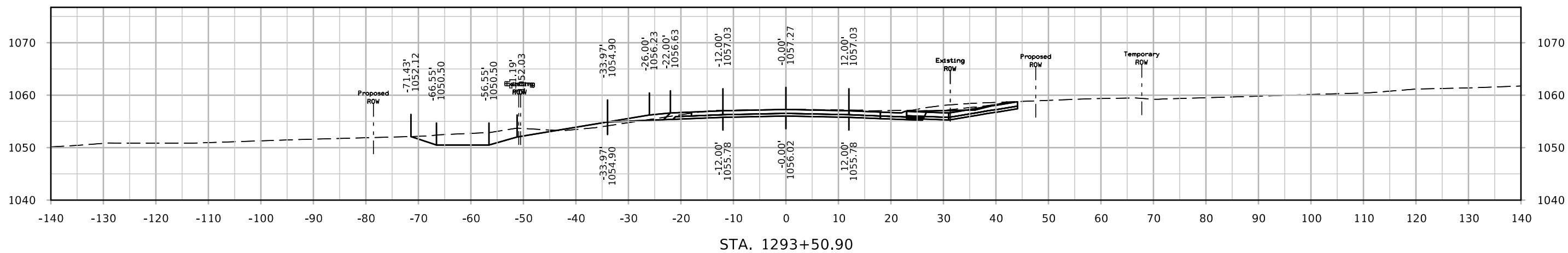
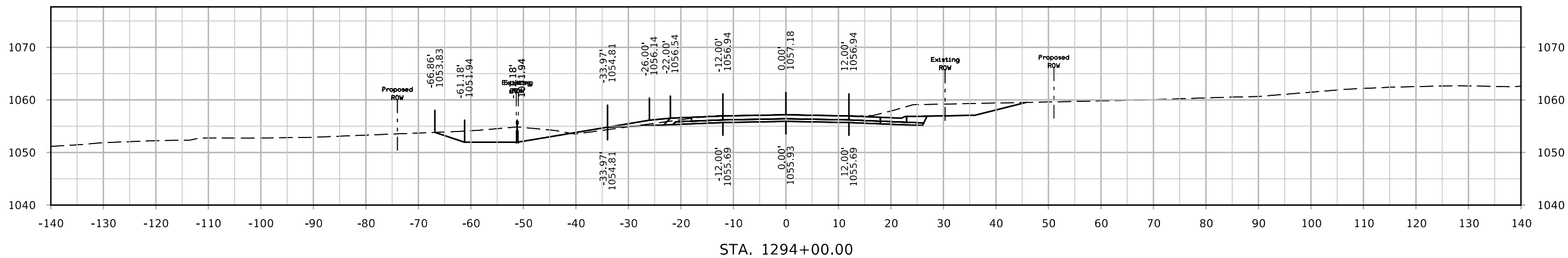
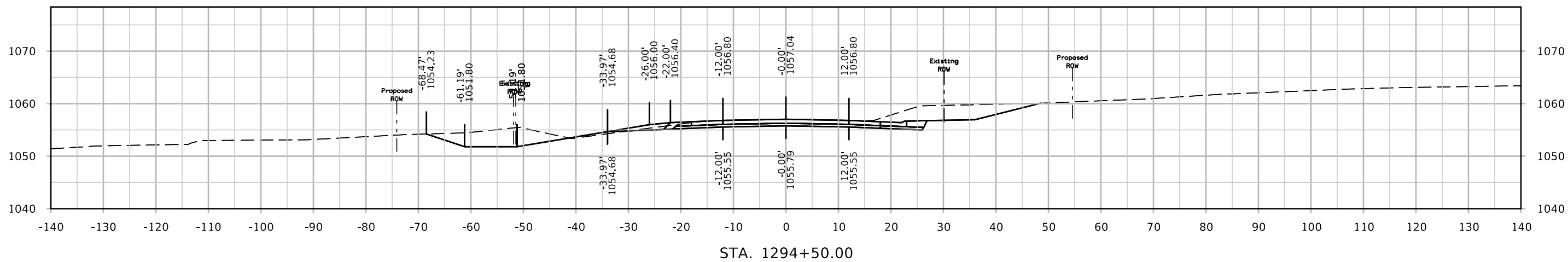




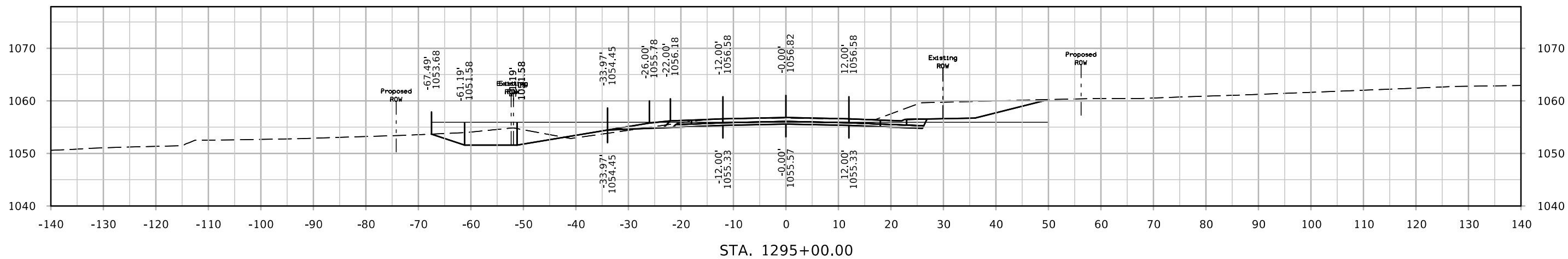
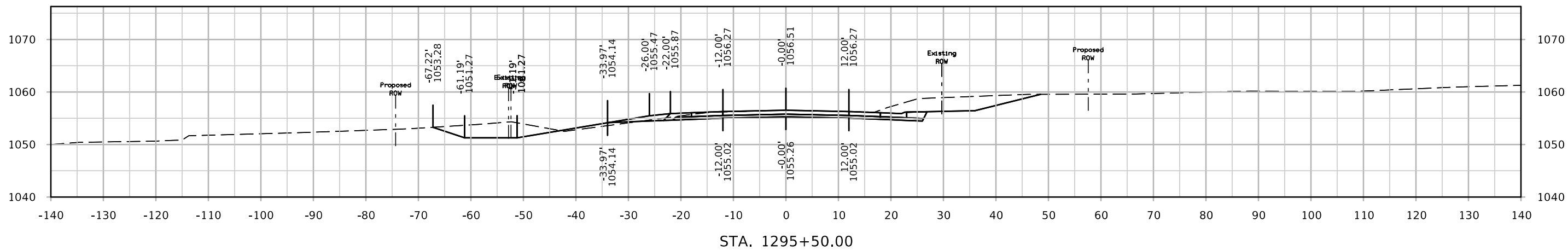
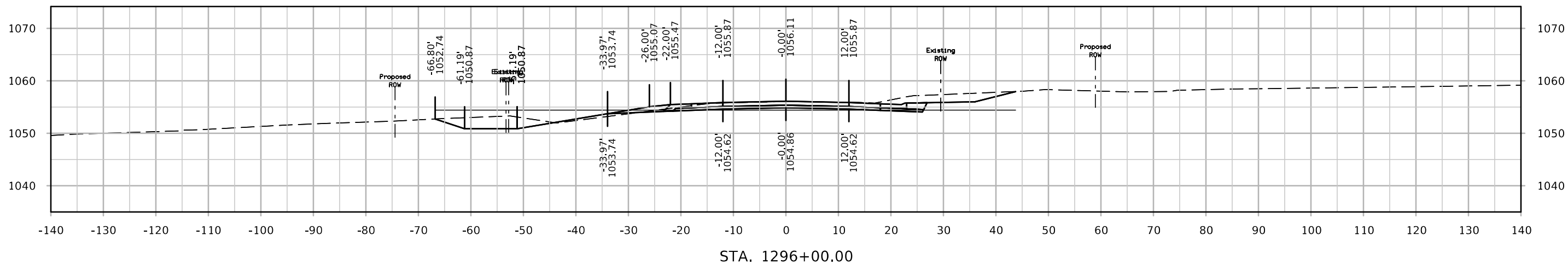


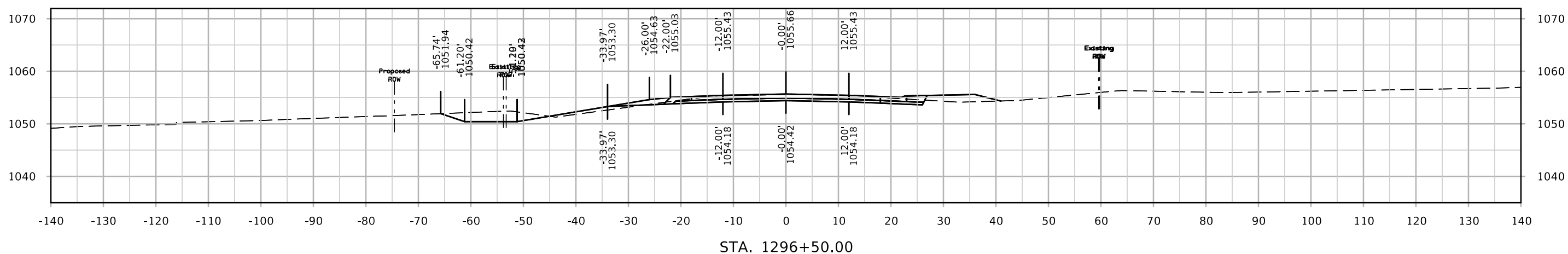
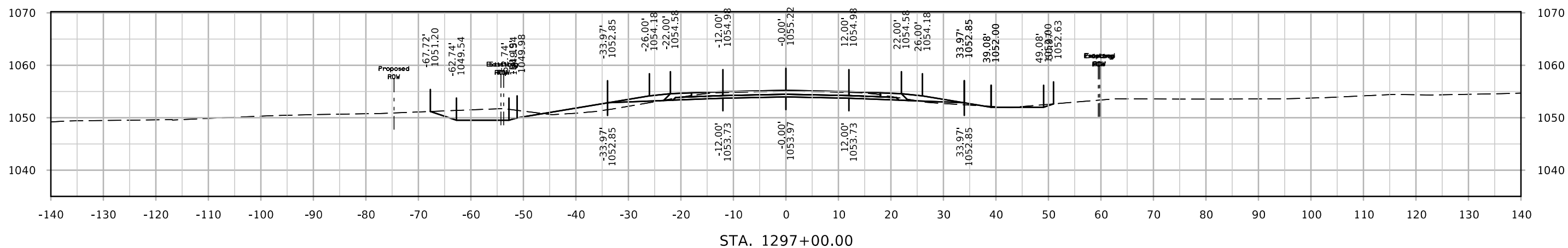
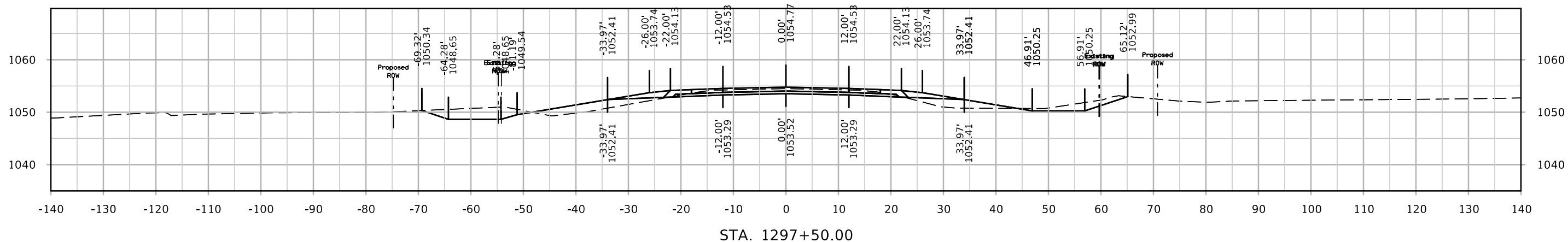


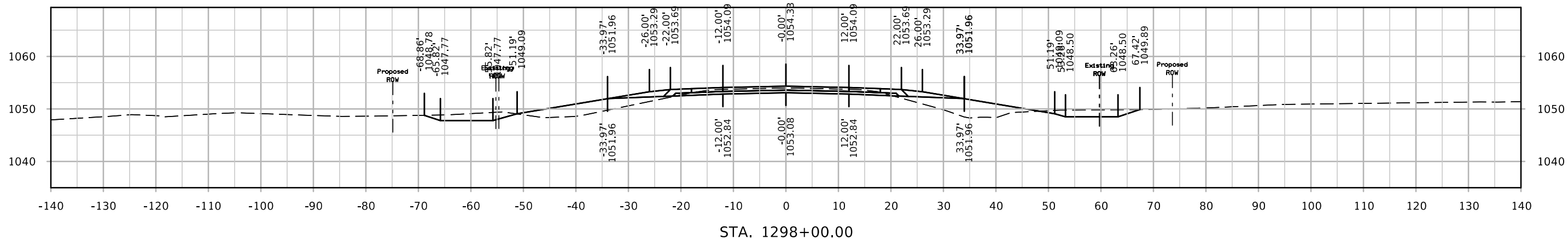
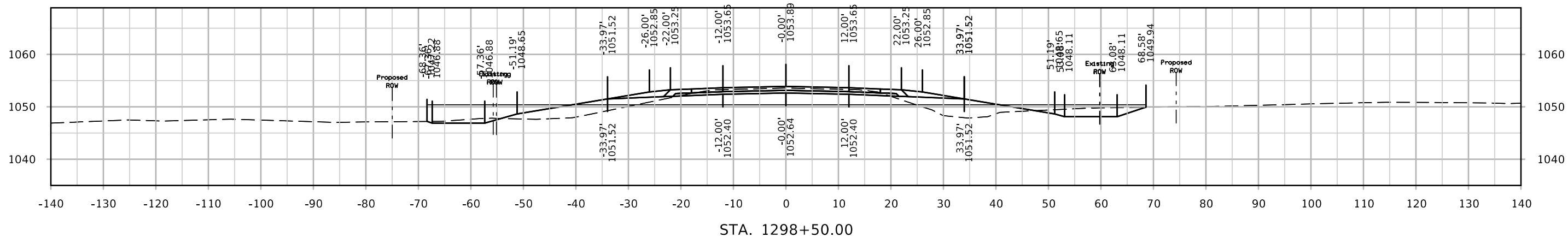
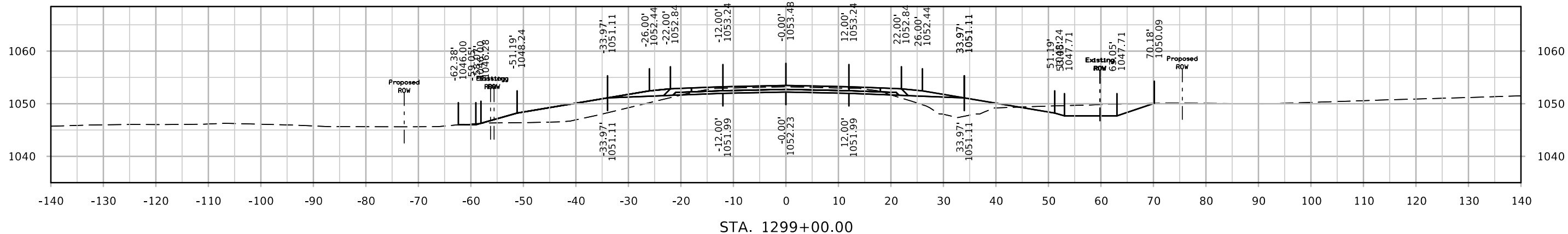


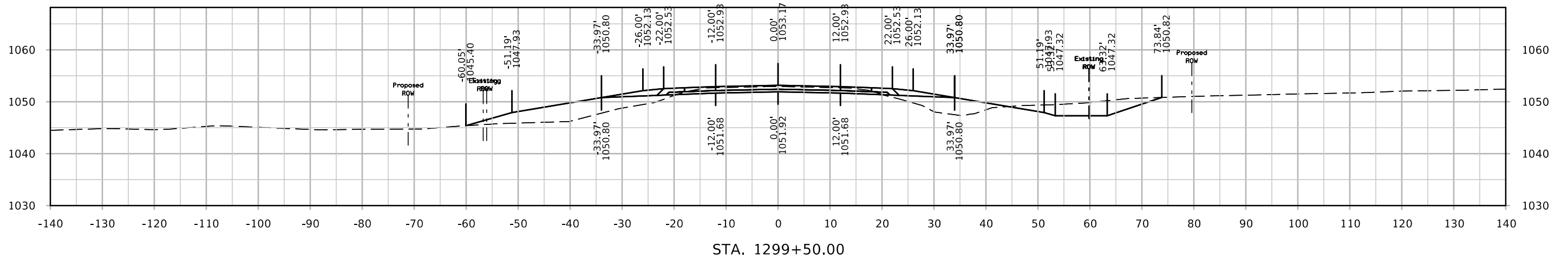
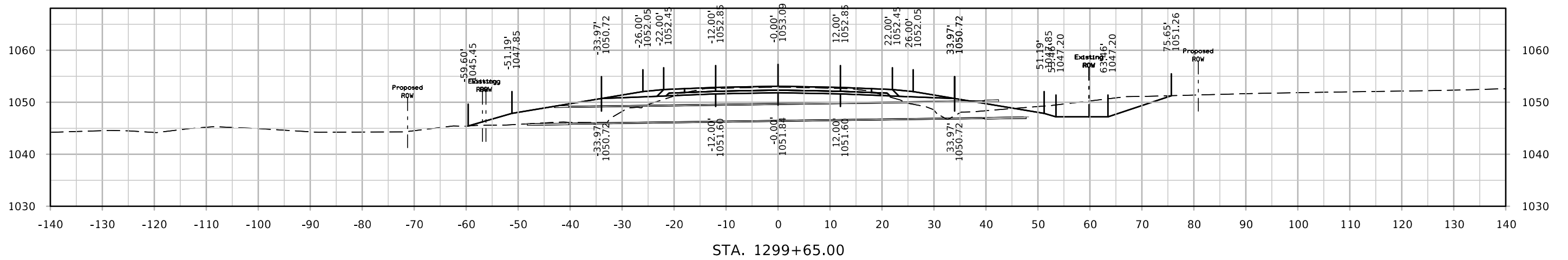
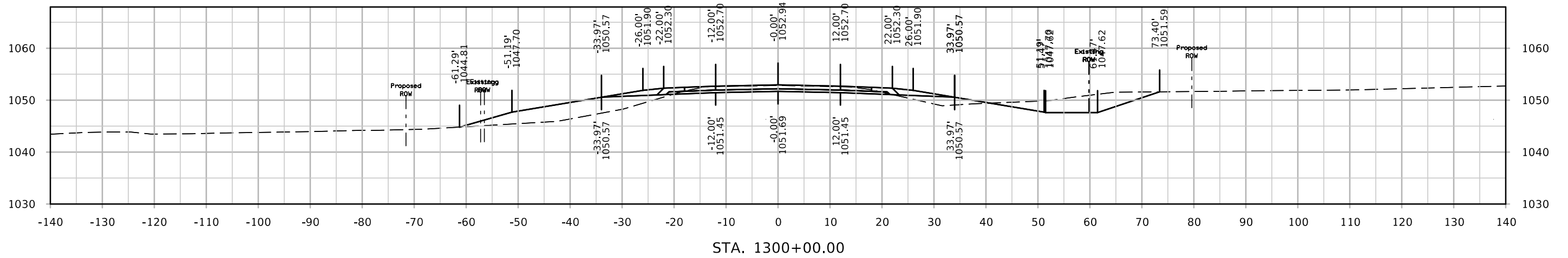


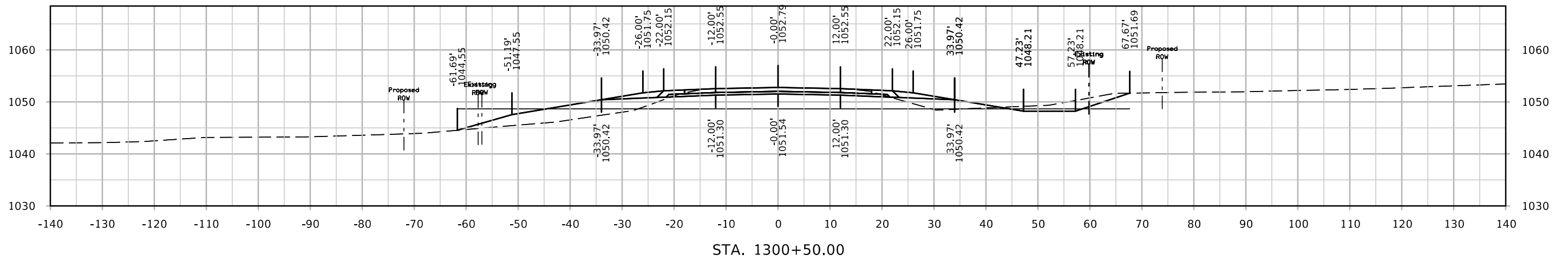
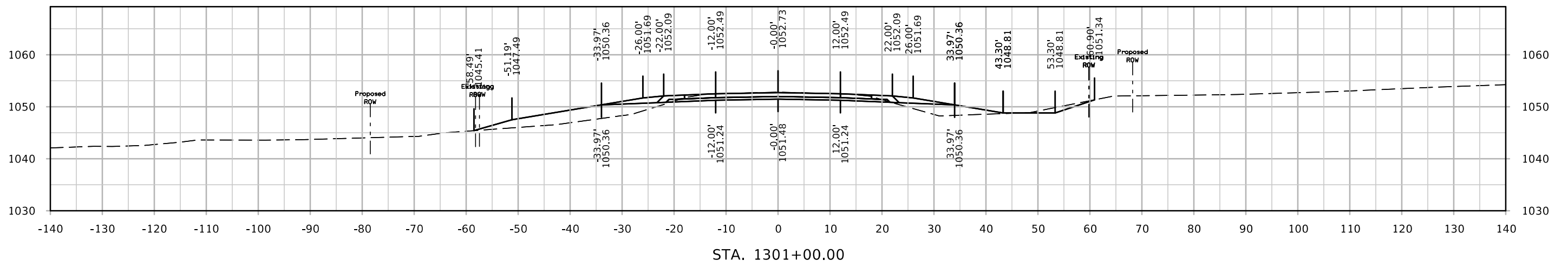
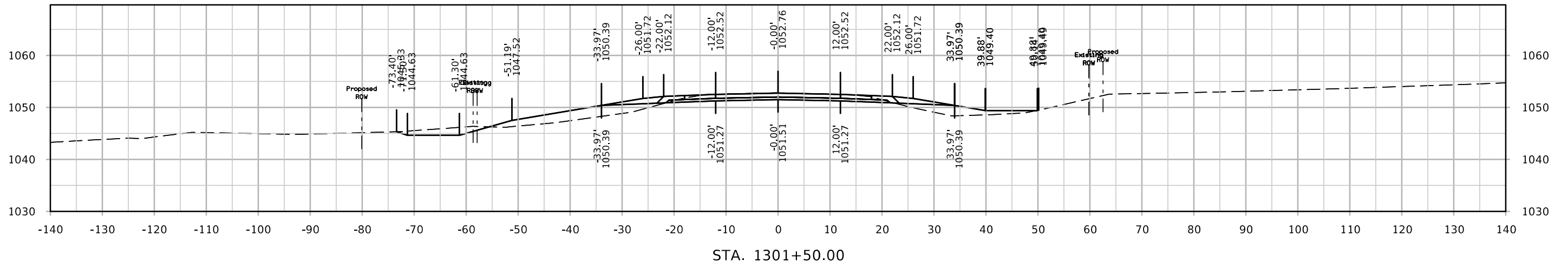


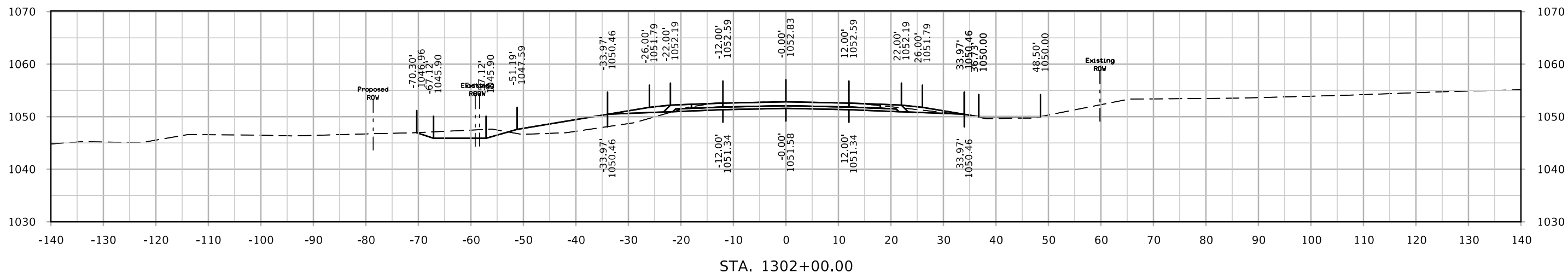
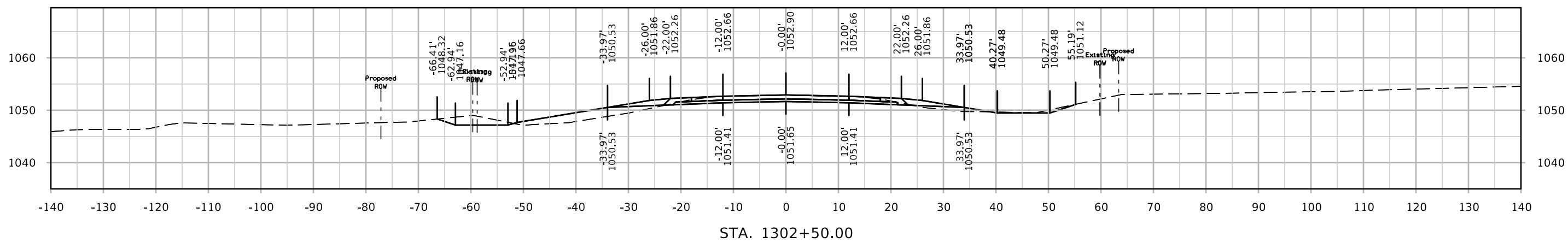
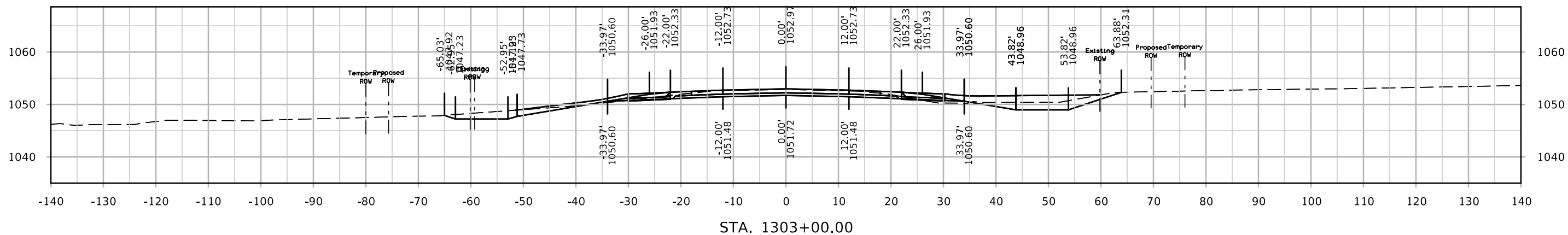


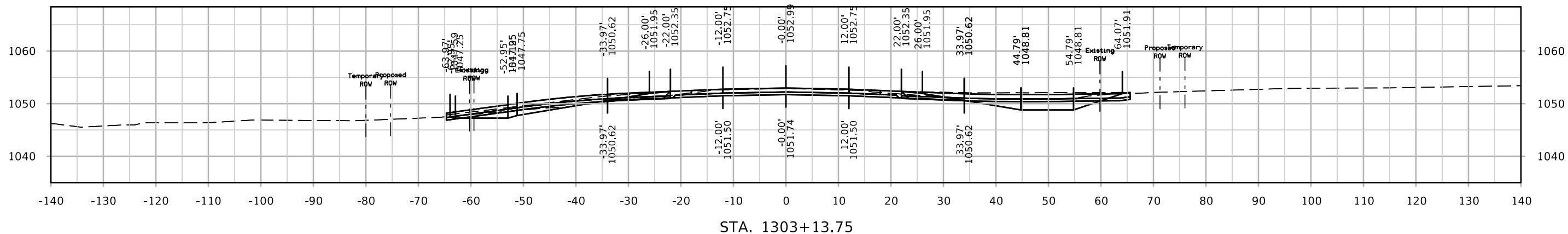
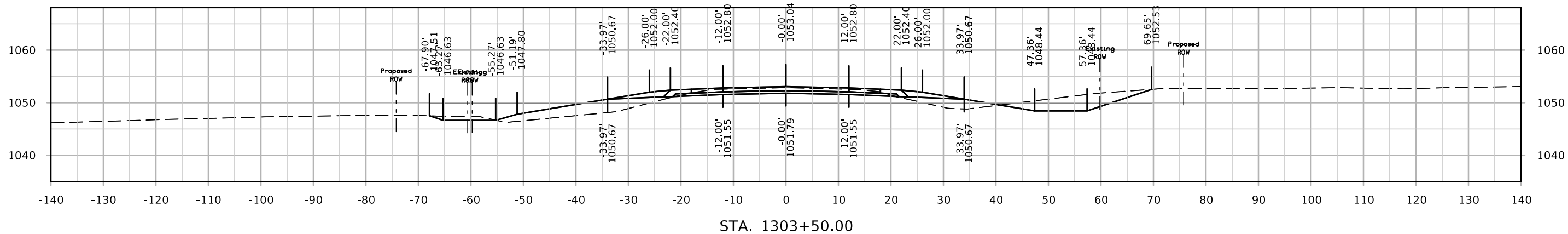
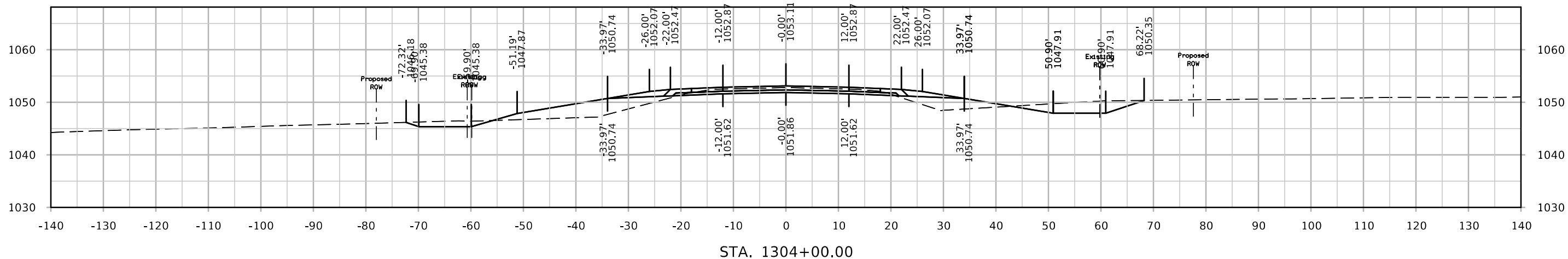


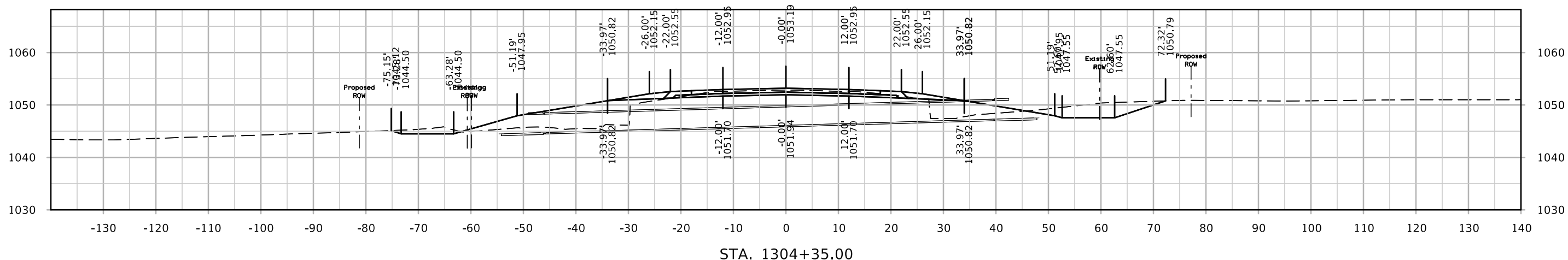
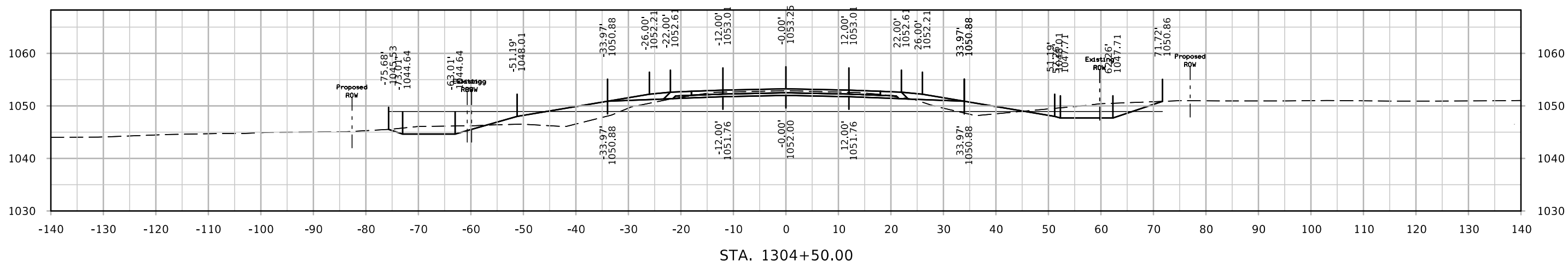
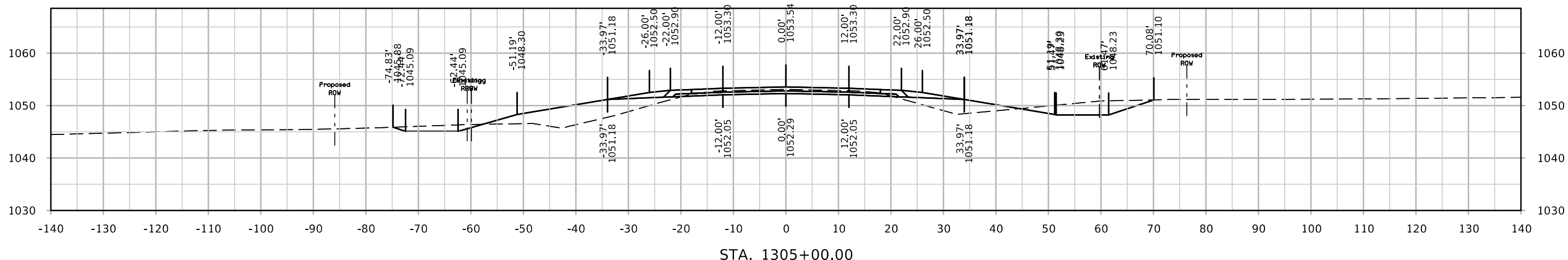




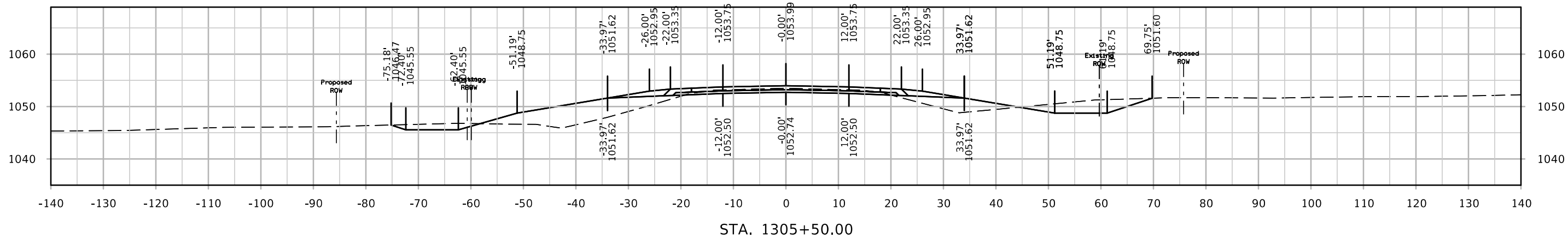
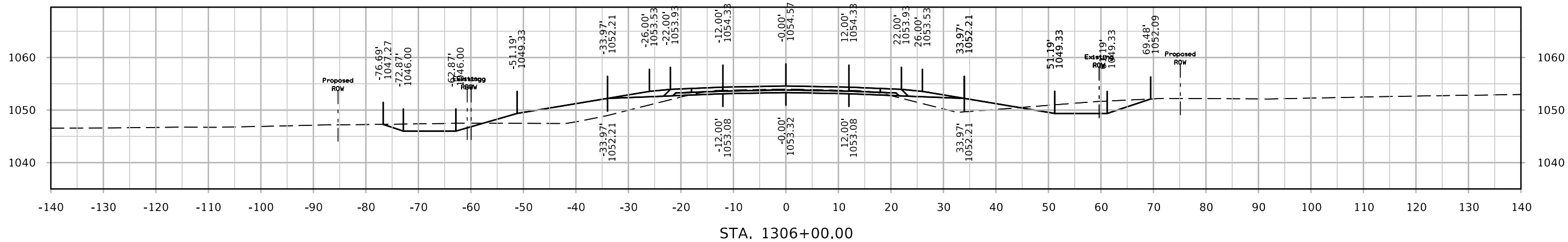
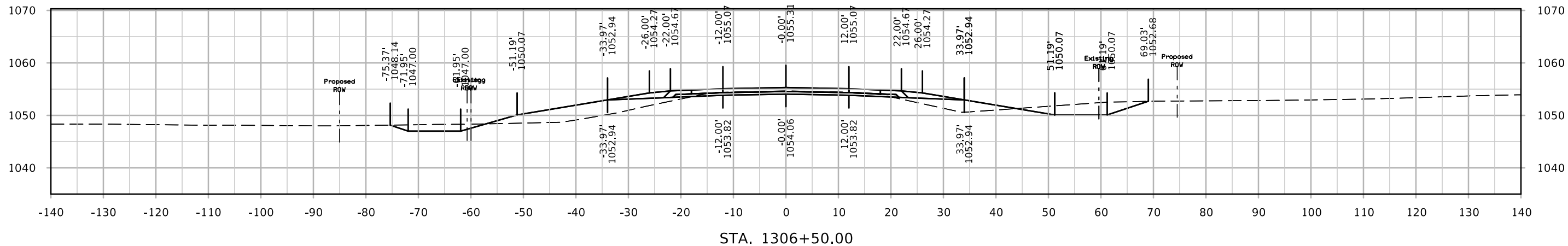


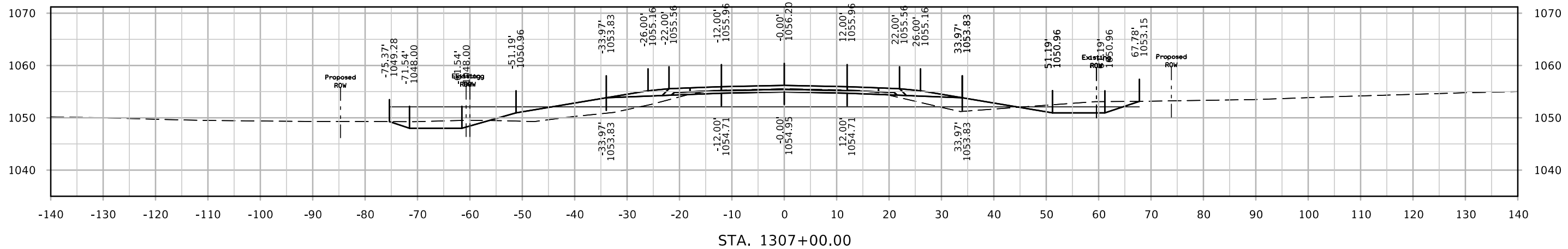
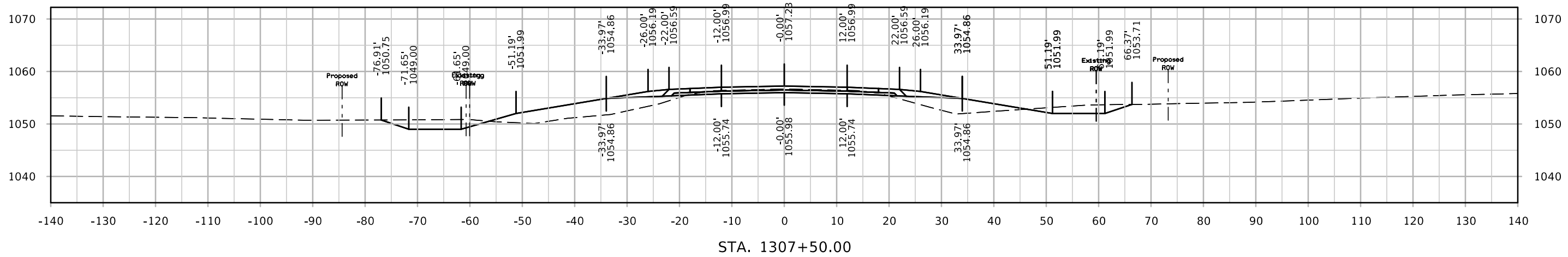
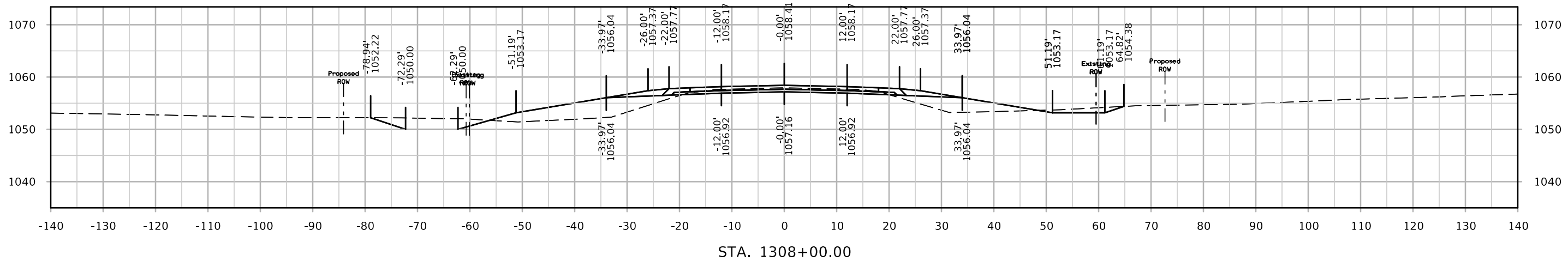


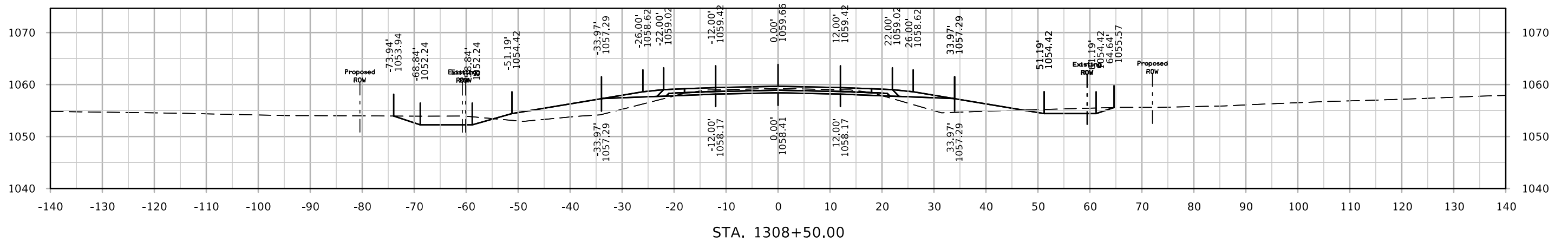
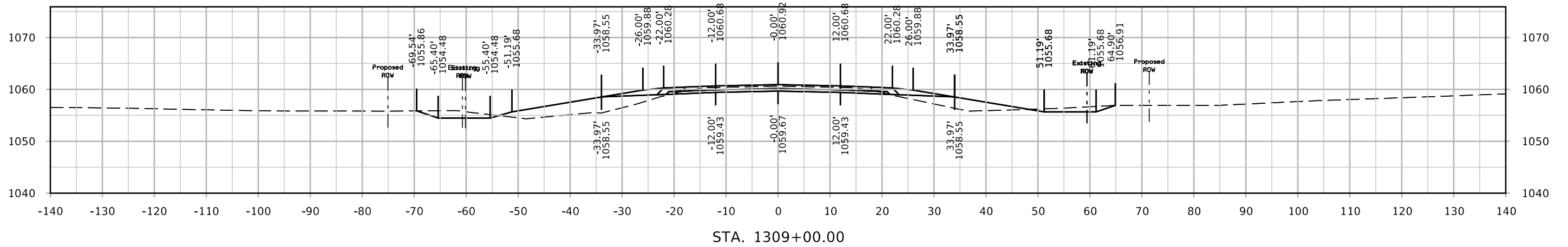
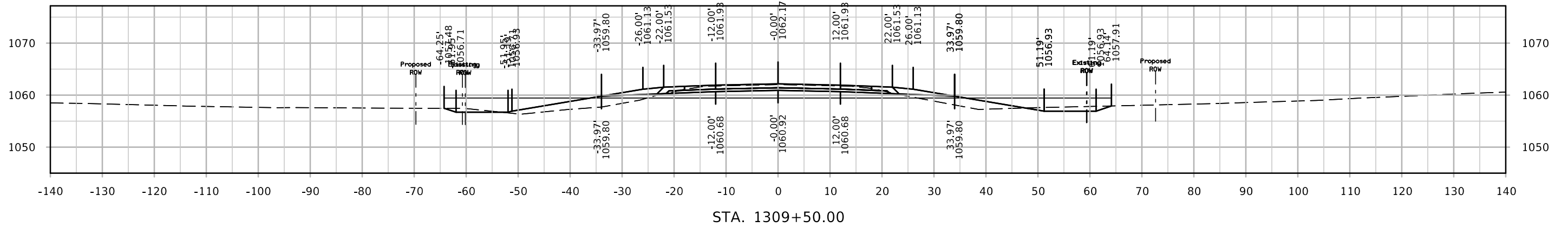


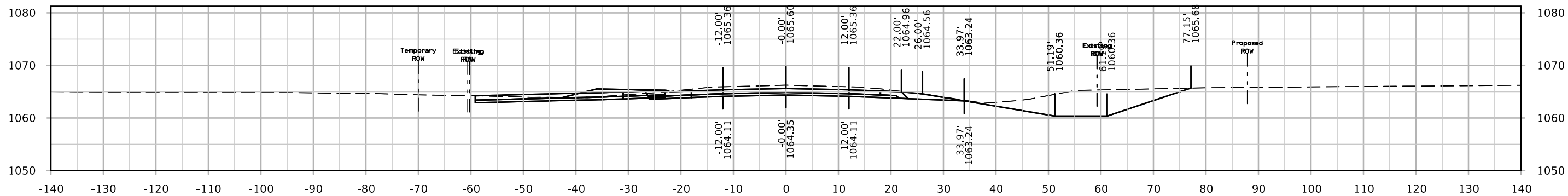




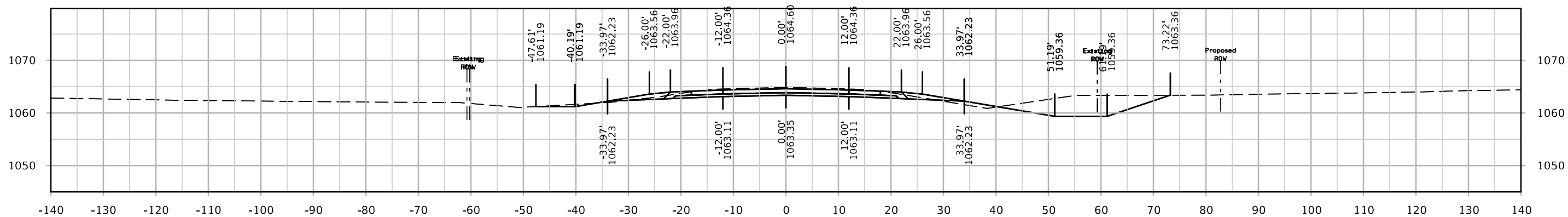




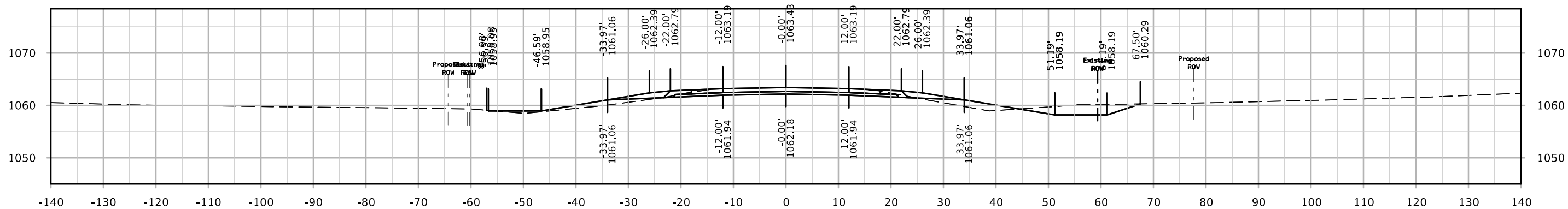




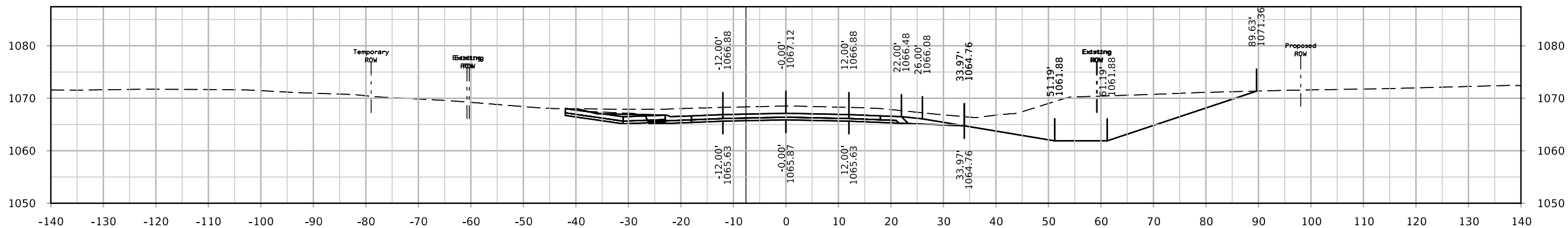
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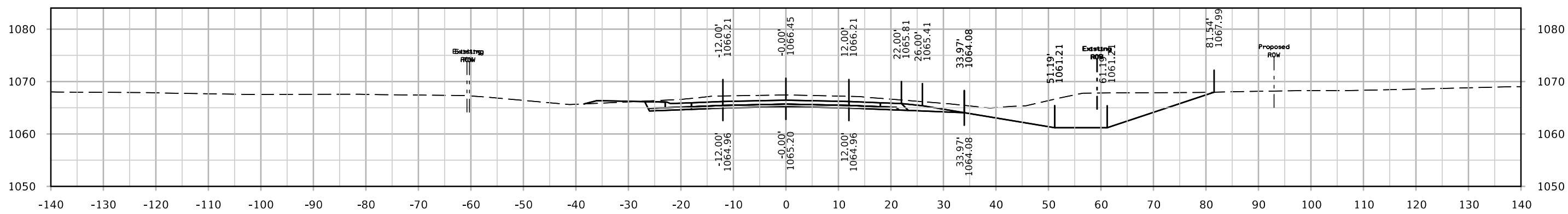
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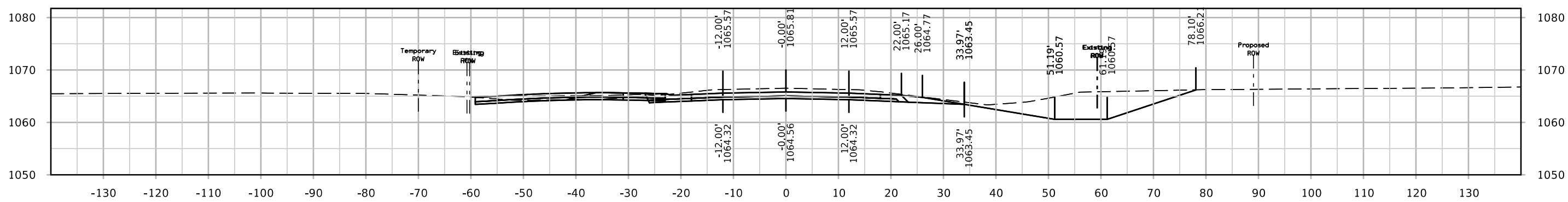
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STA. 1312+00.00

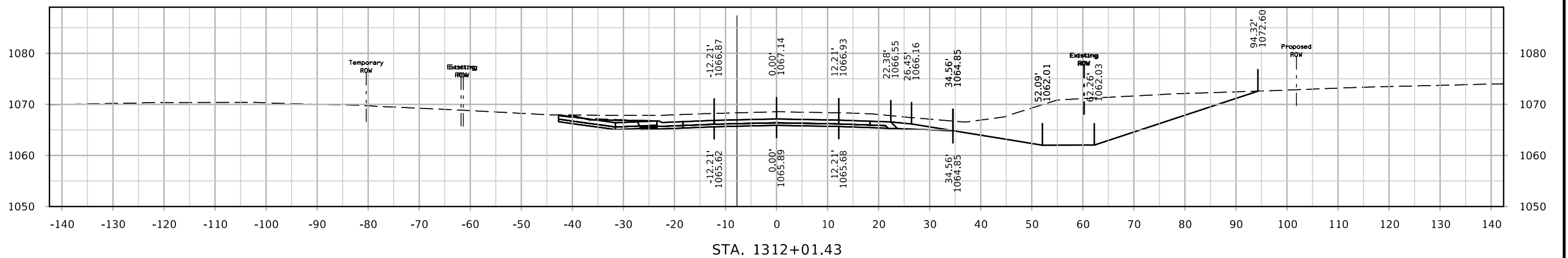
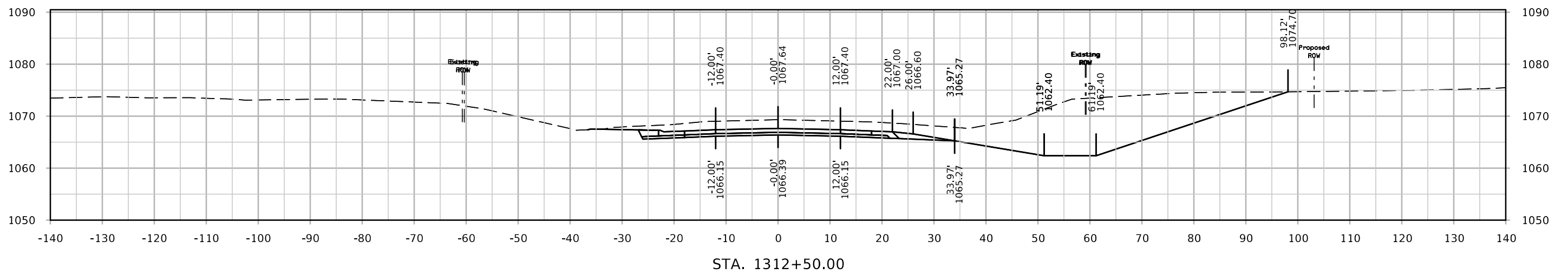
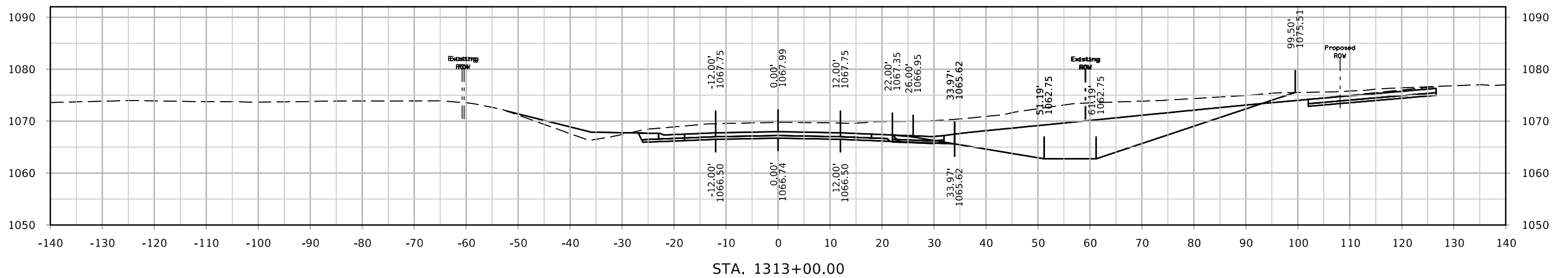


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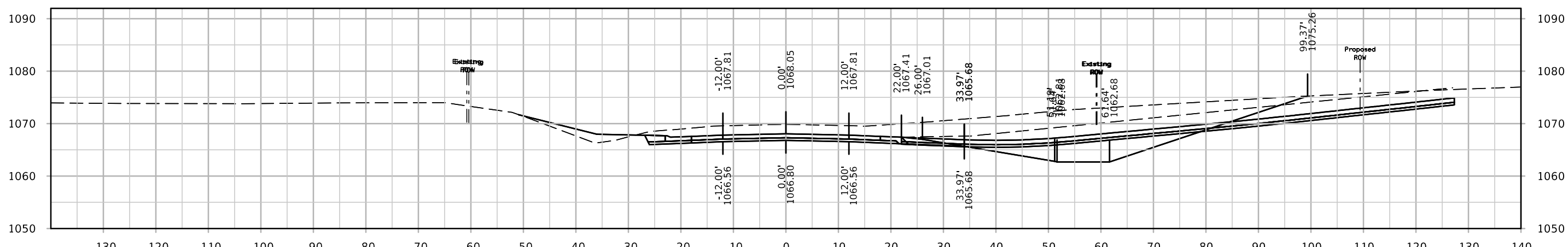
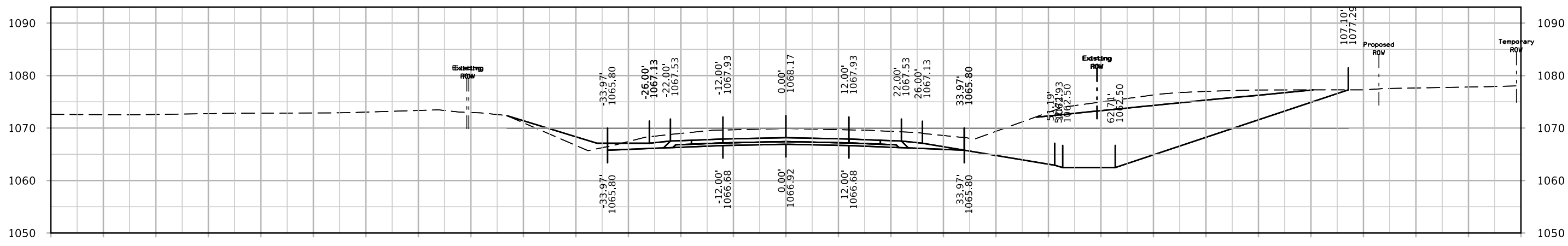
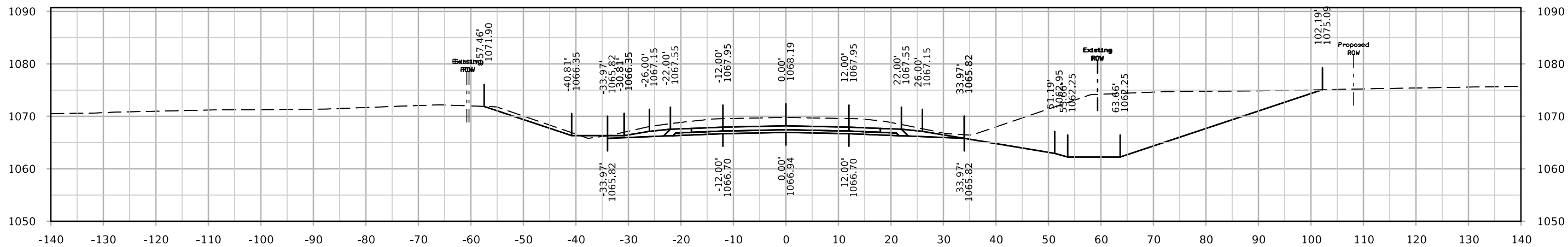


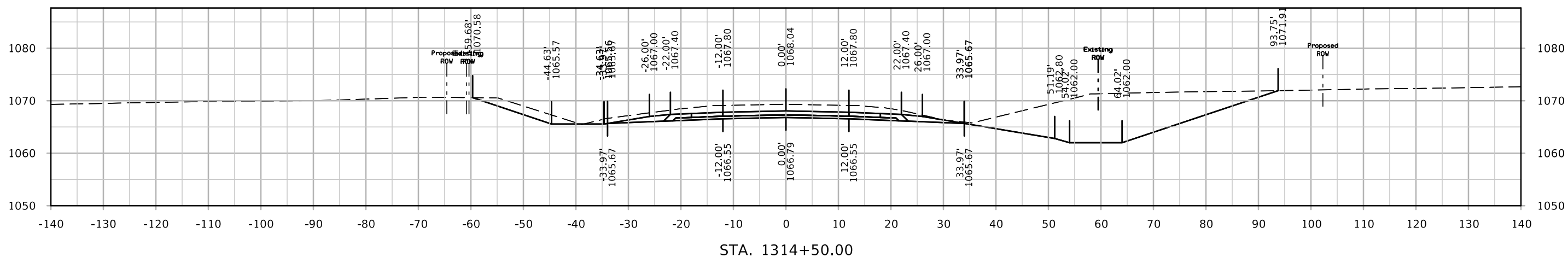
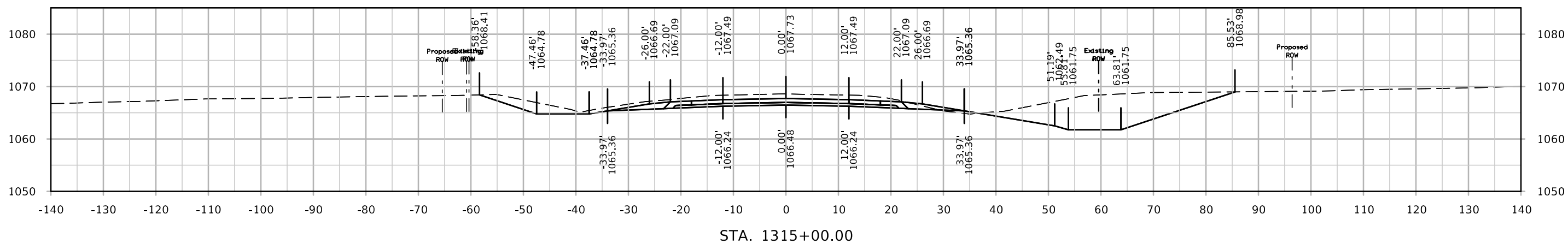
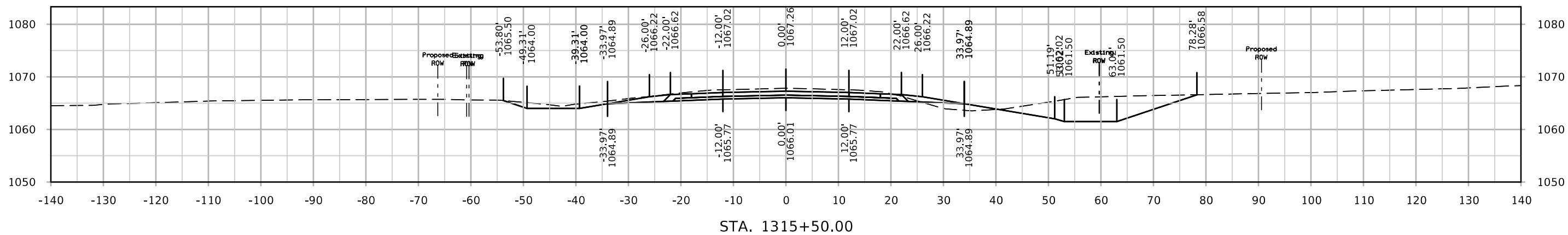
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# IA 13

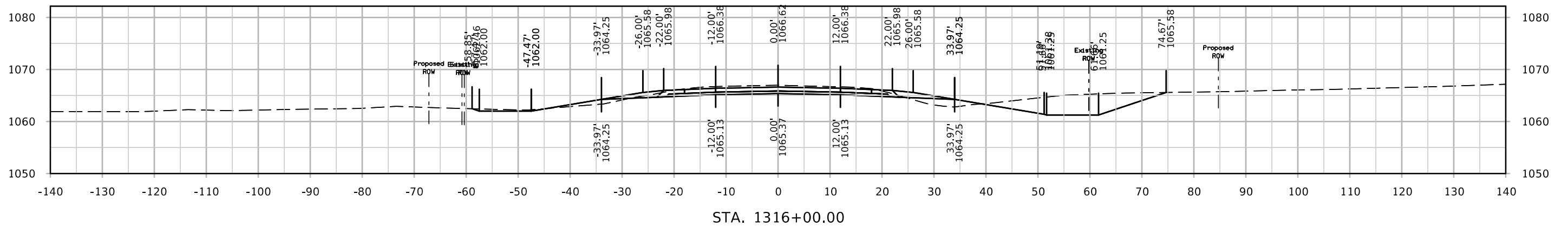
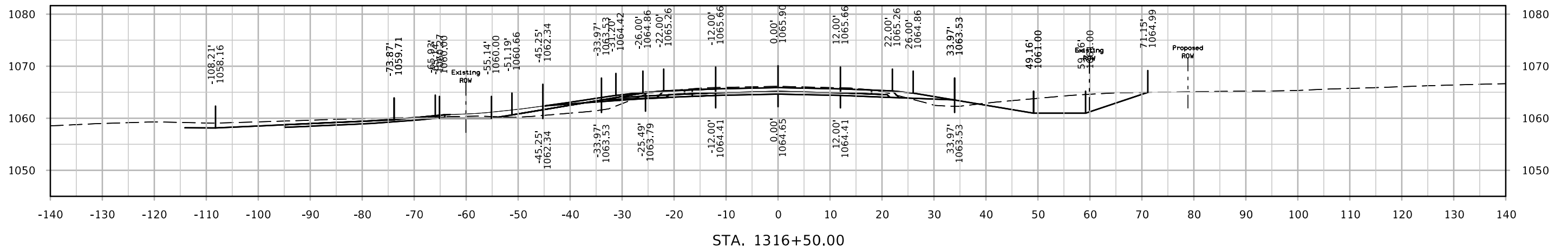
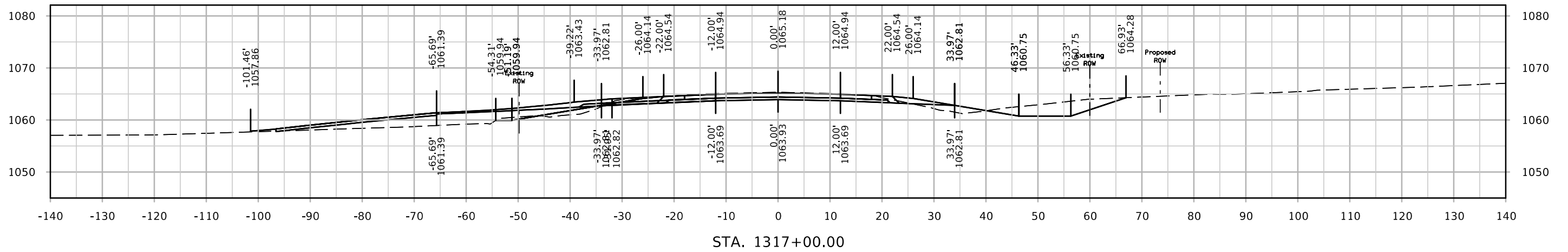


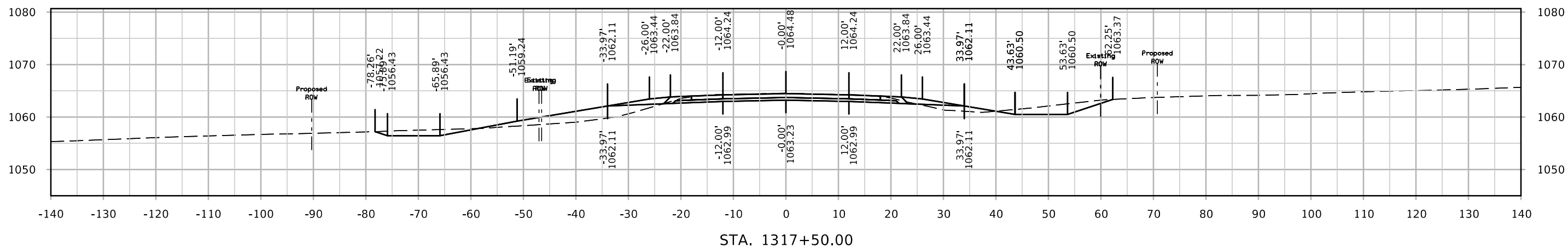
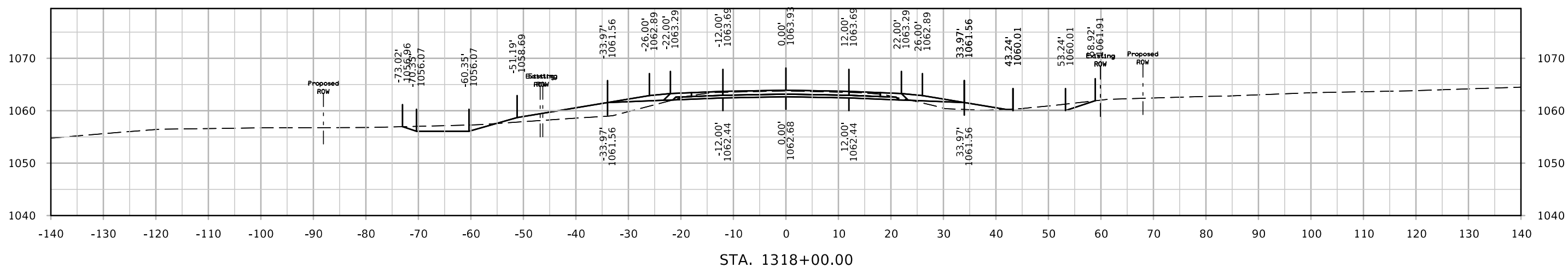
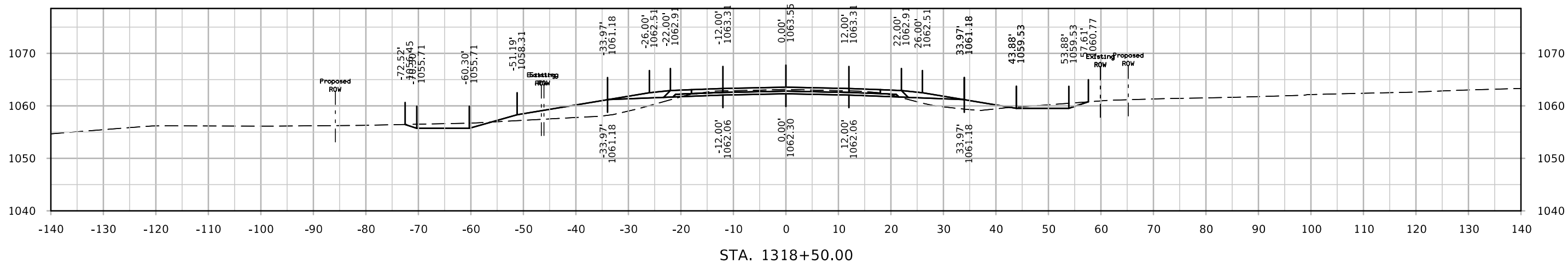
# IA 13

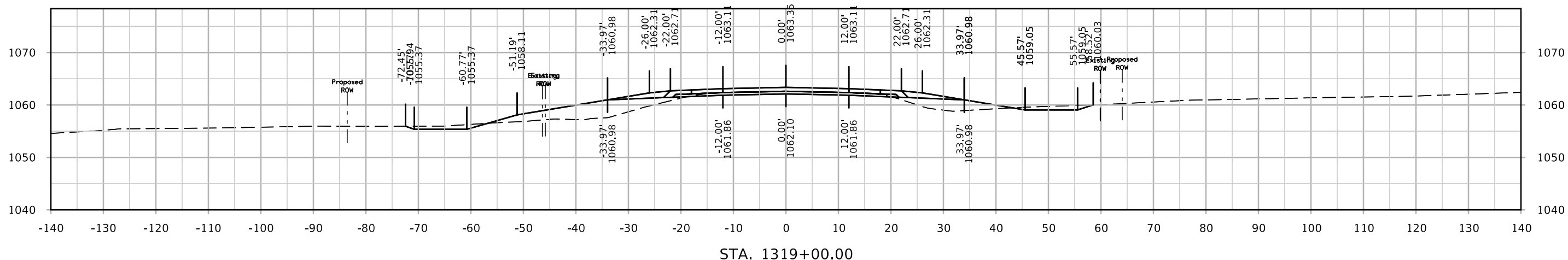
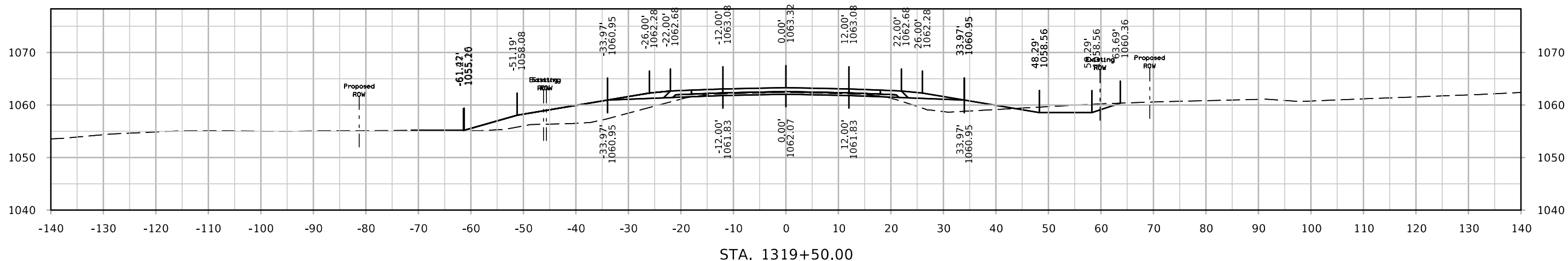
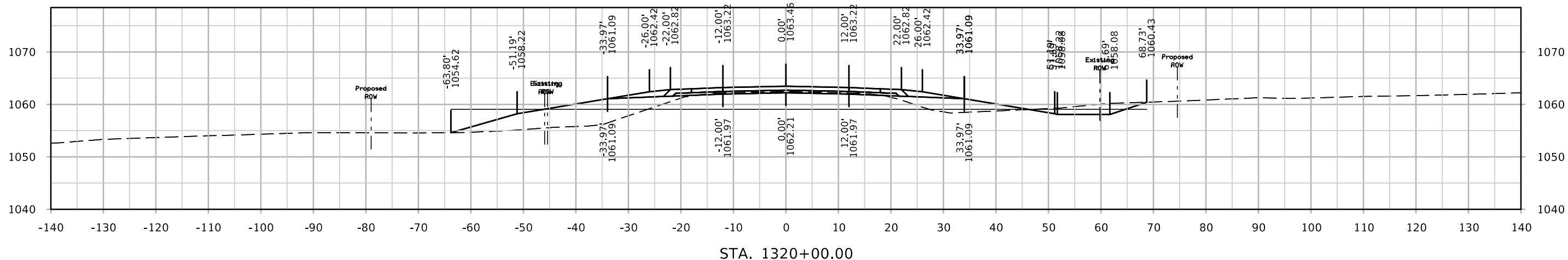


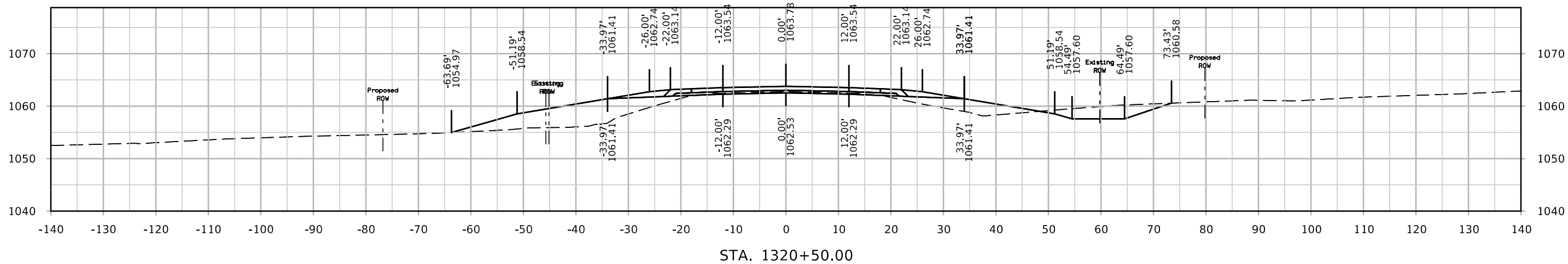
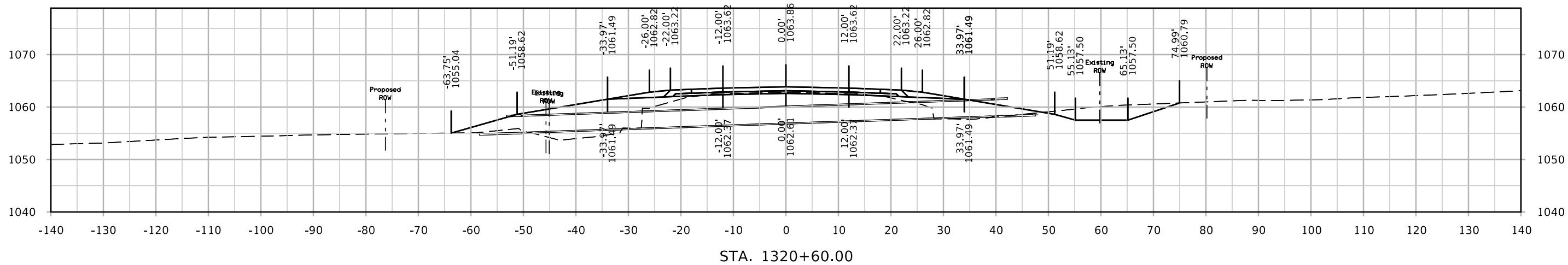
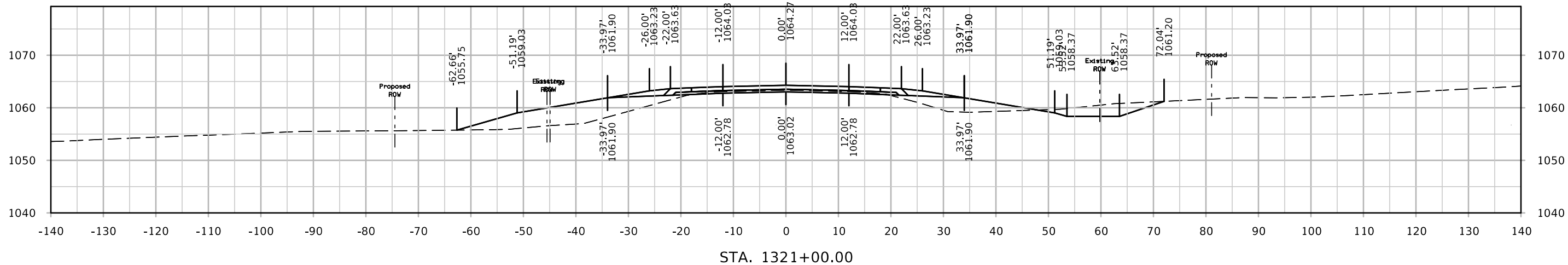


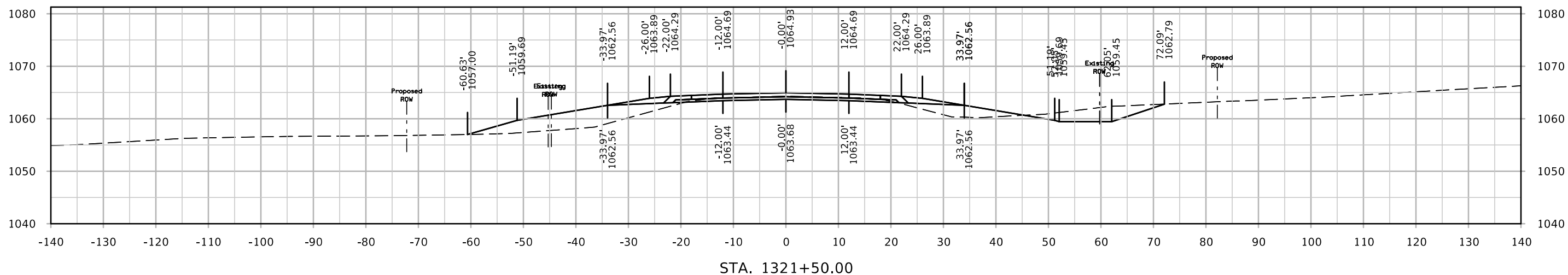
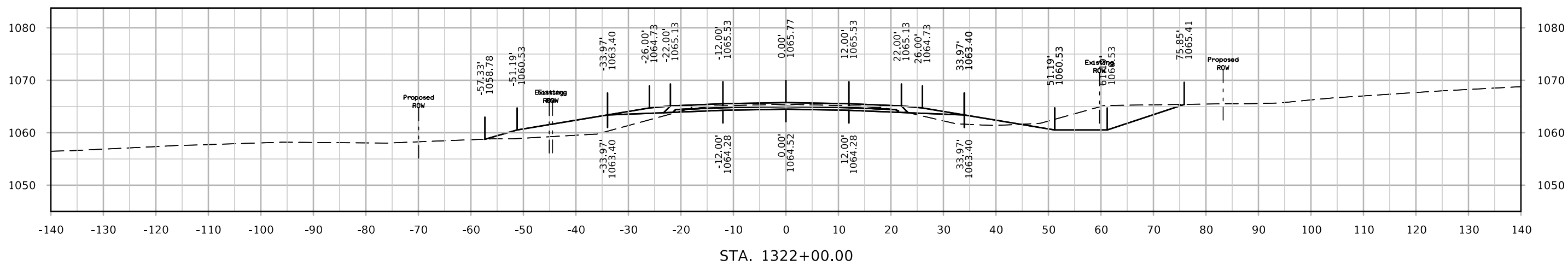
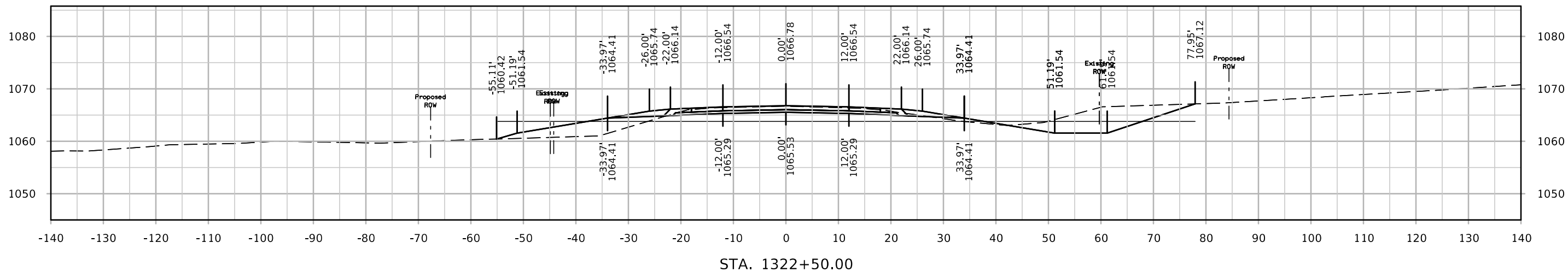


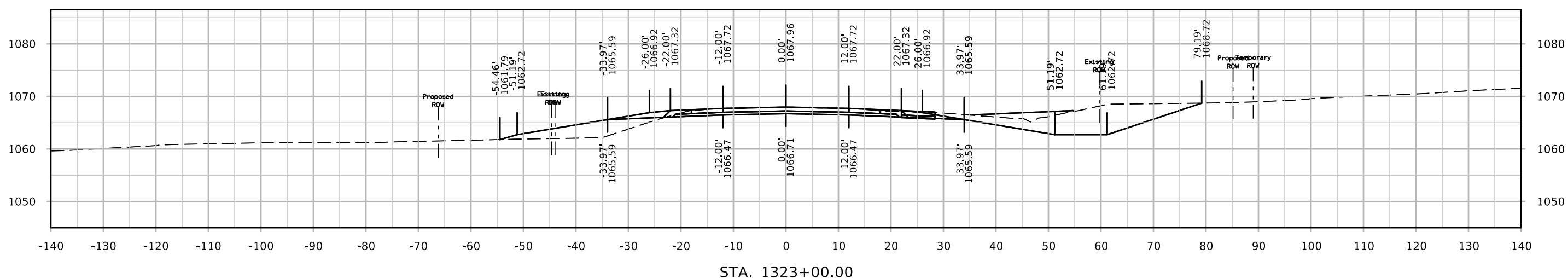
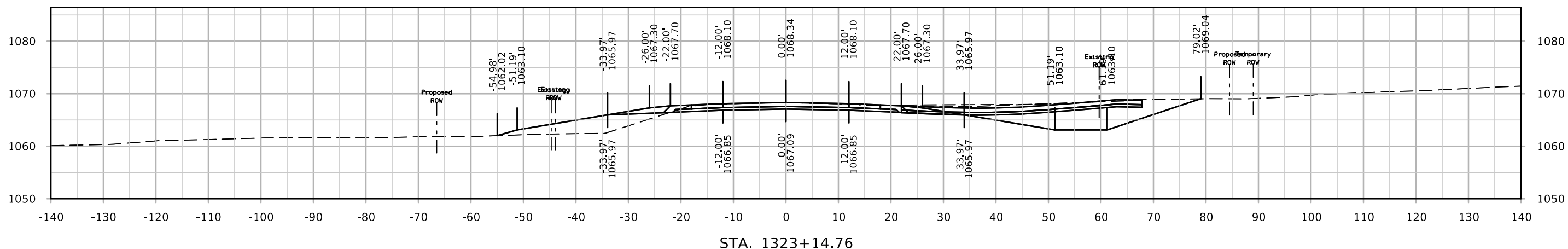
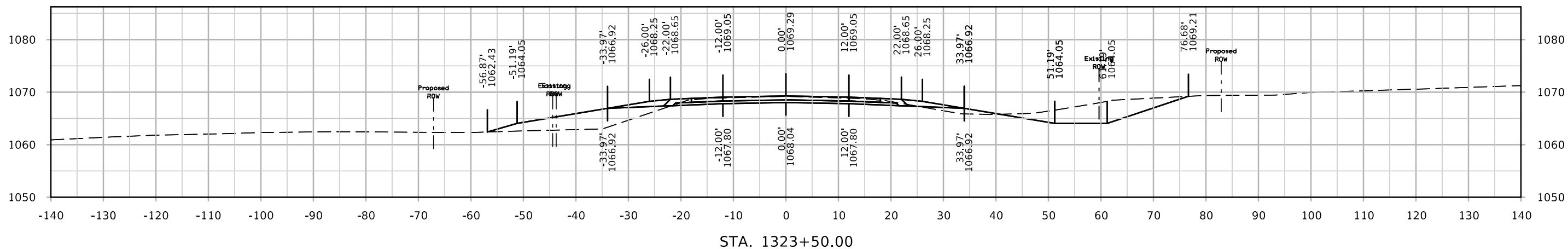


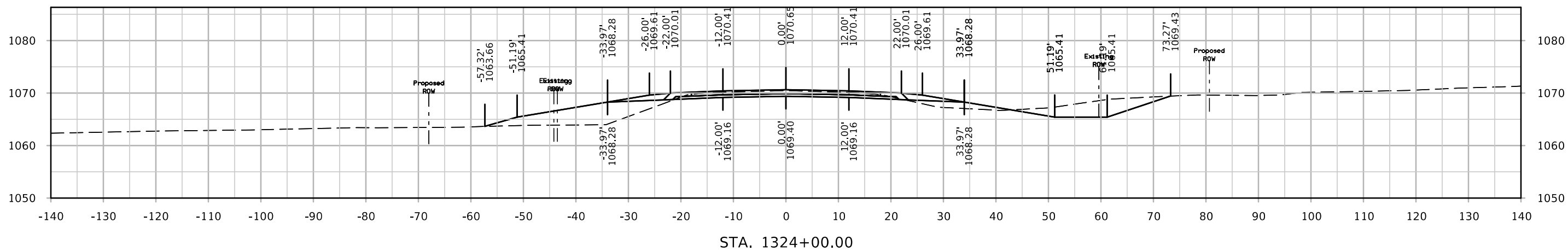
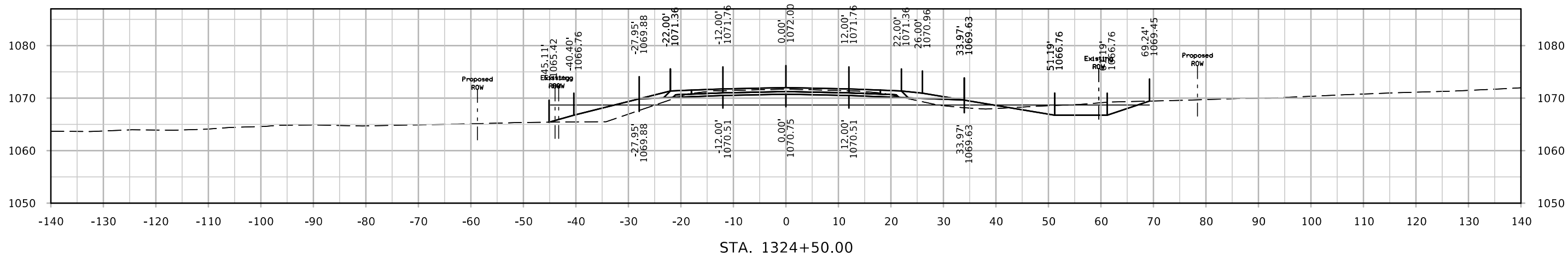
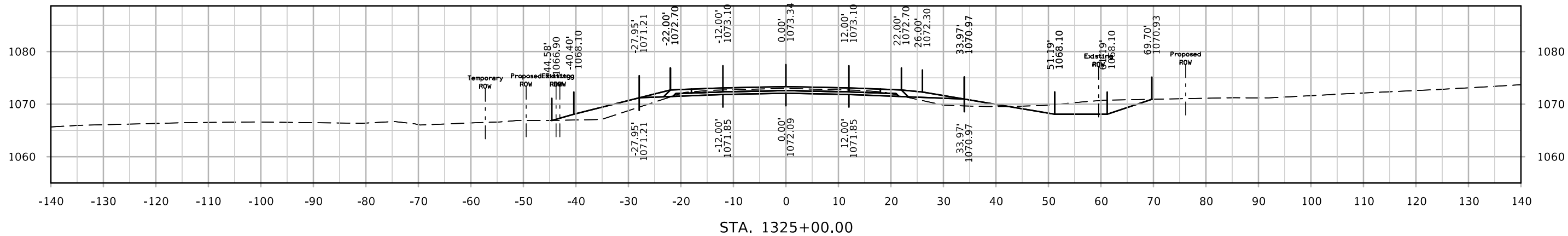


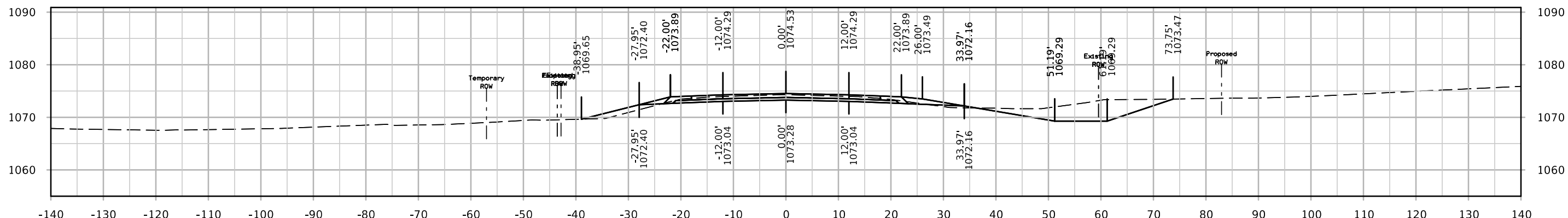
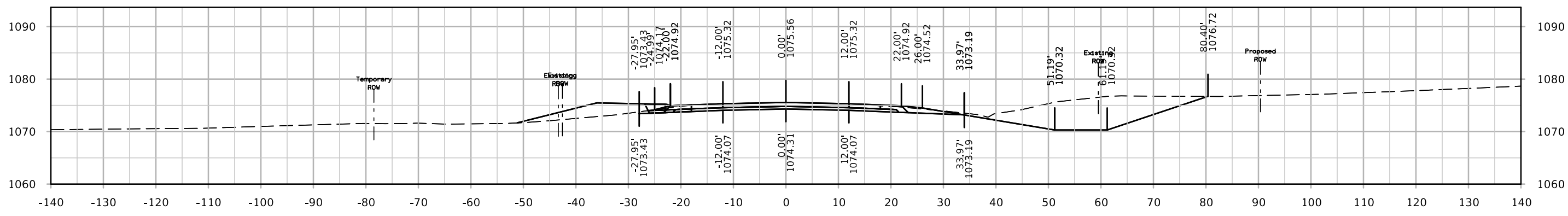
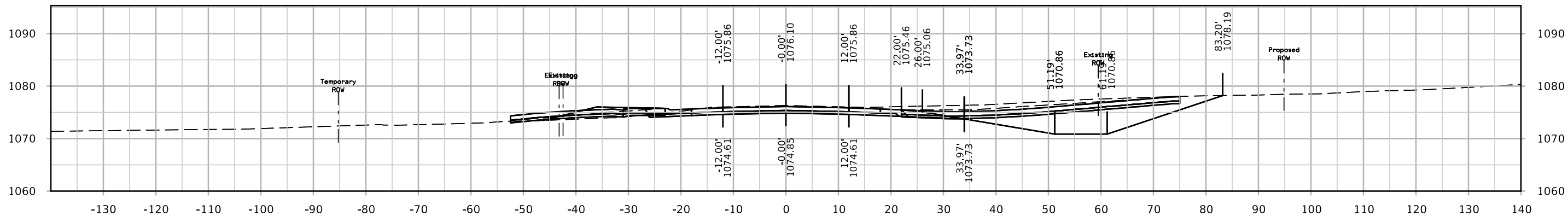






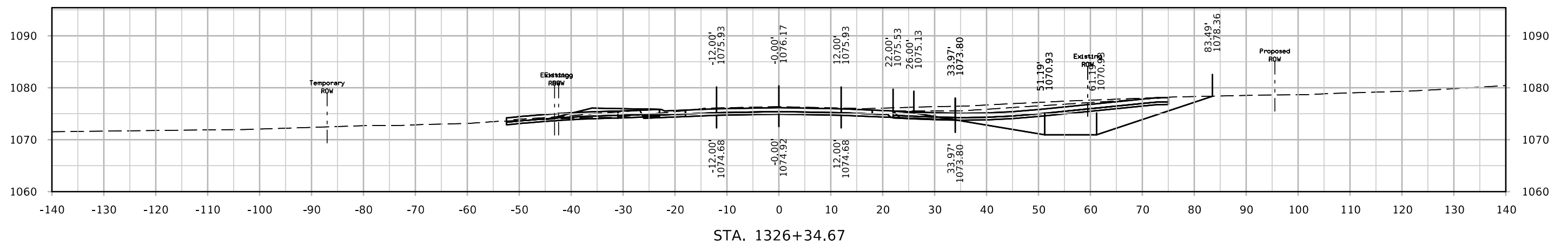
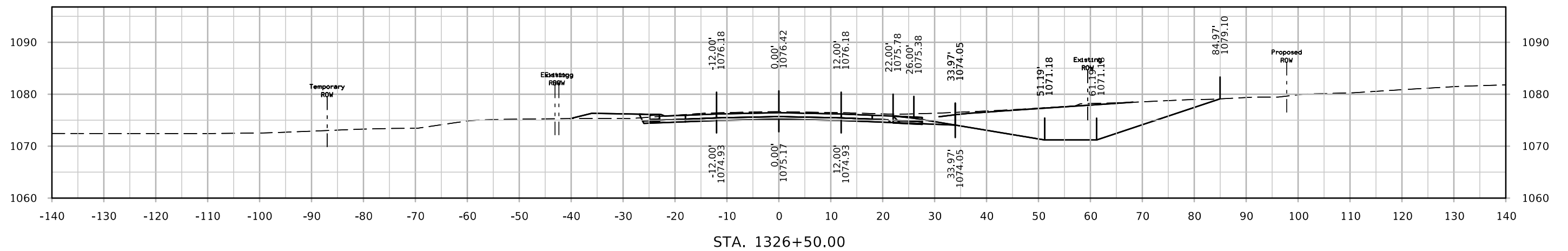
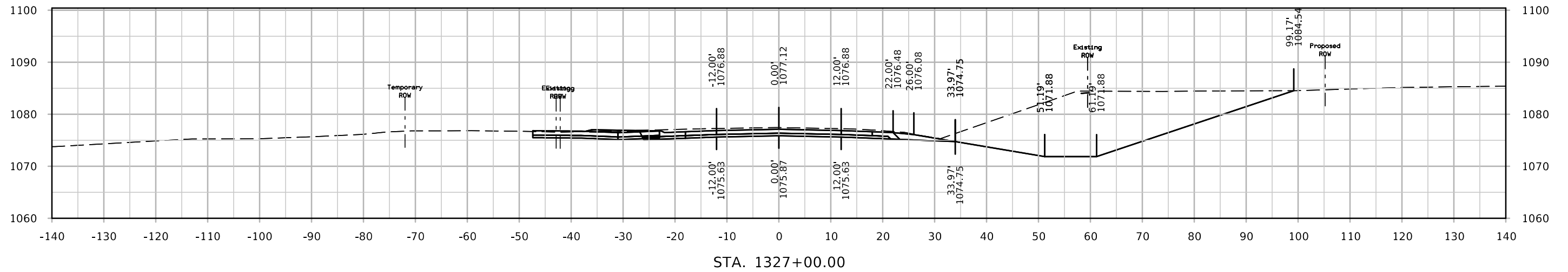




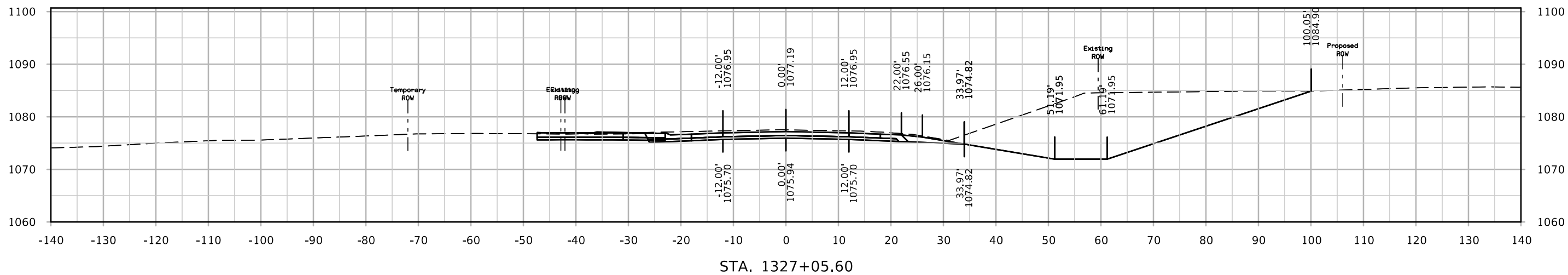
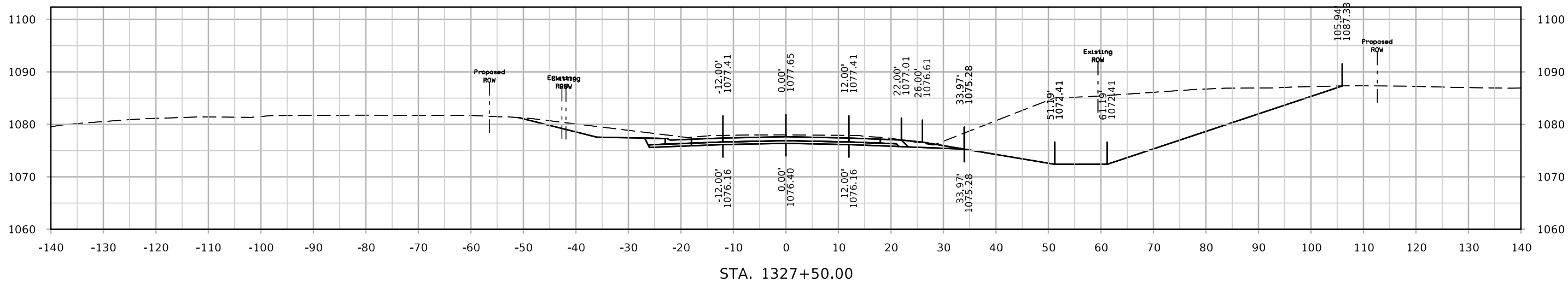
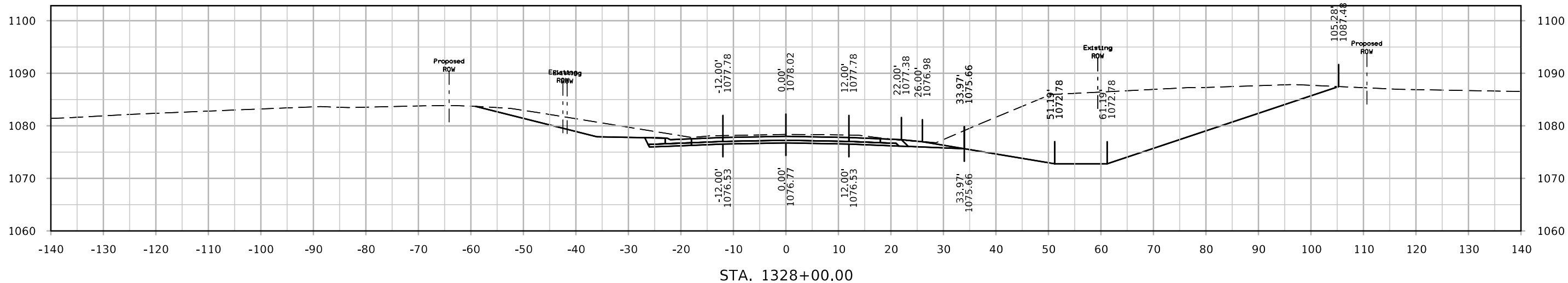


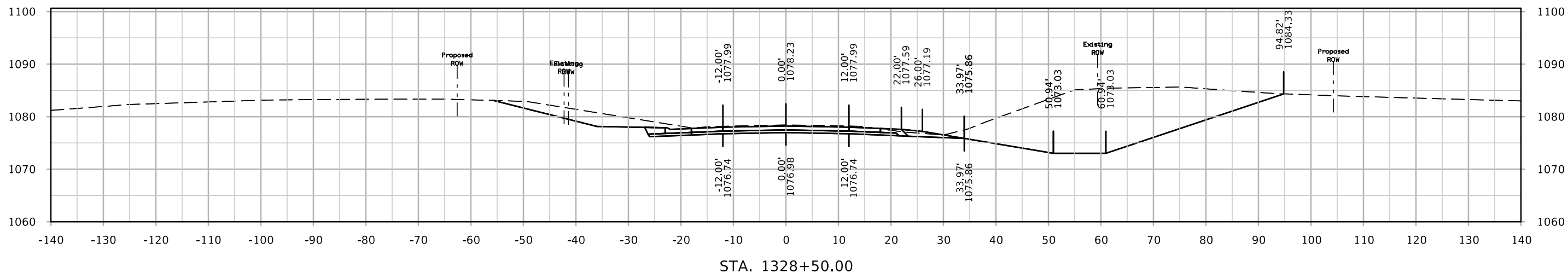
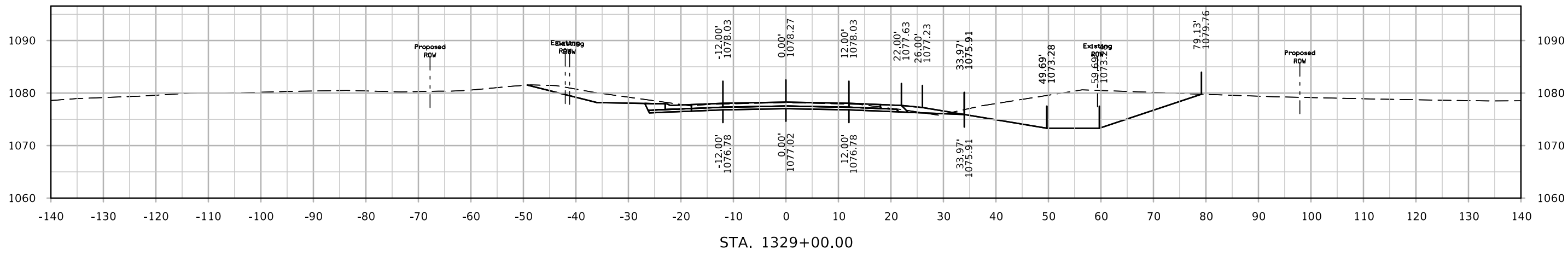
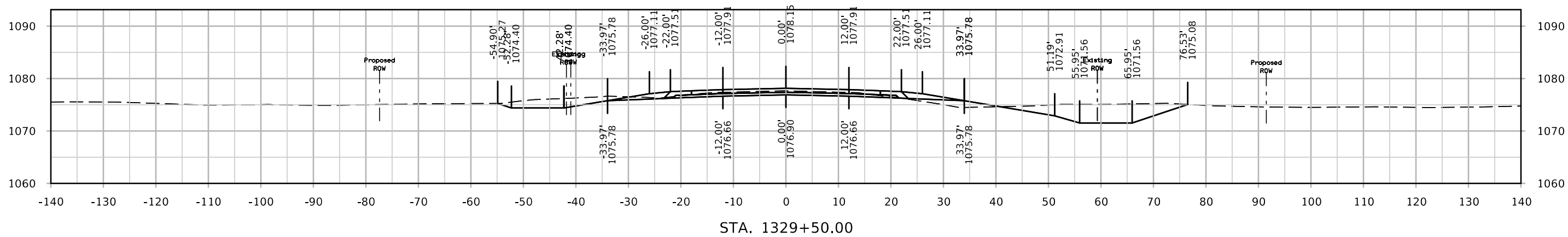


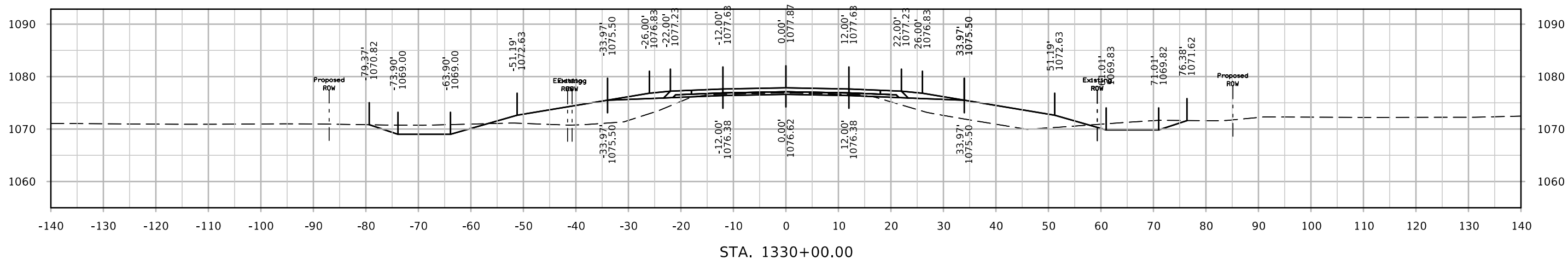
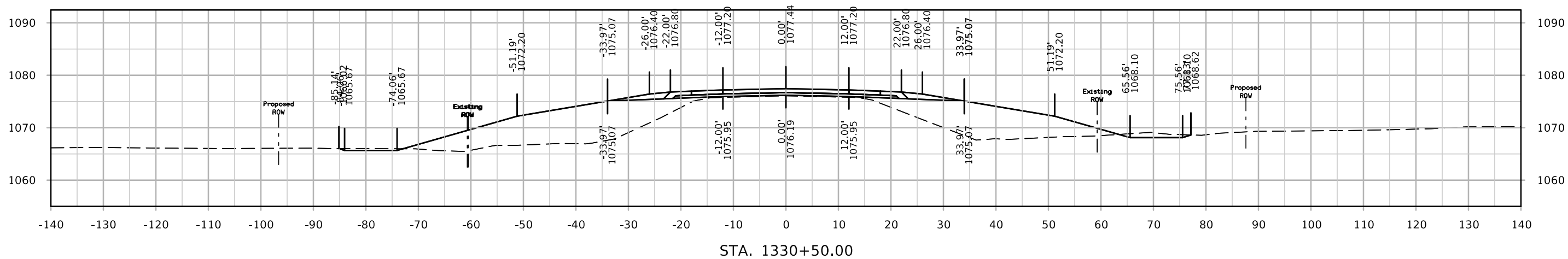
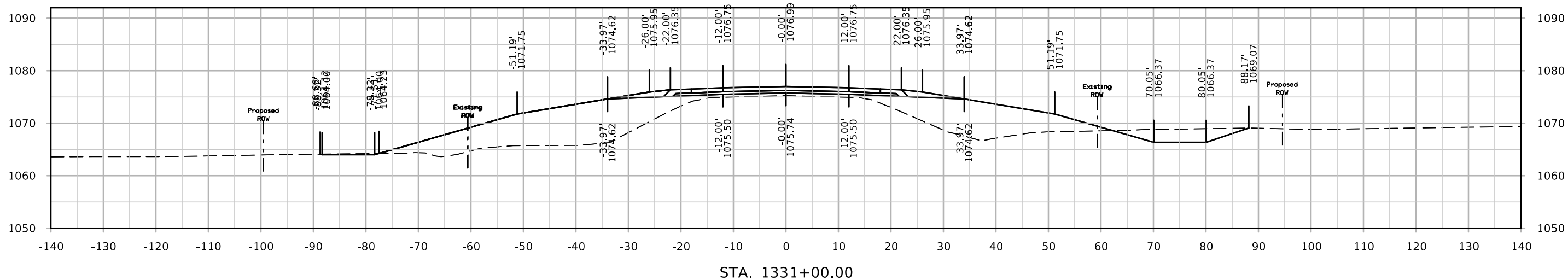
# IA 13



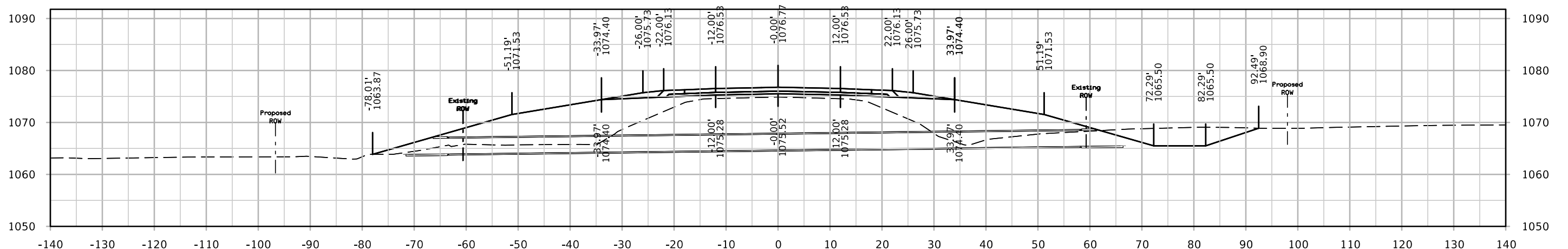
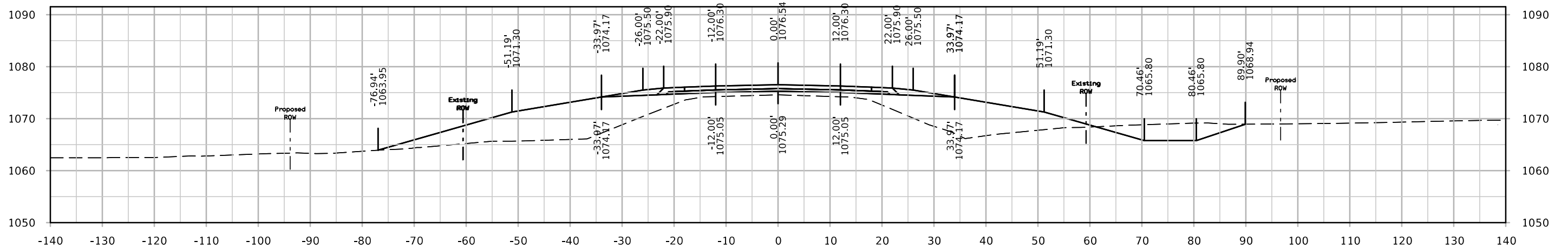
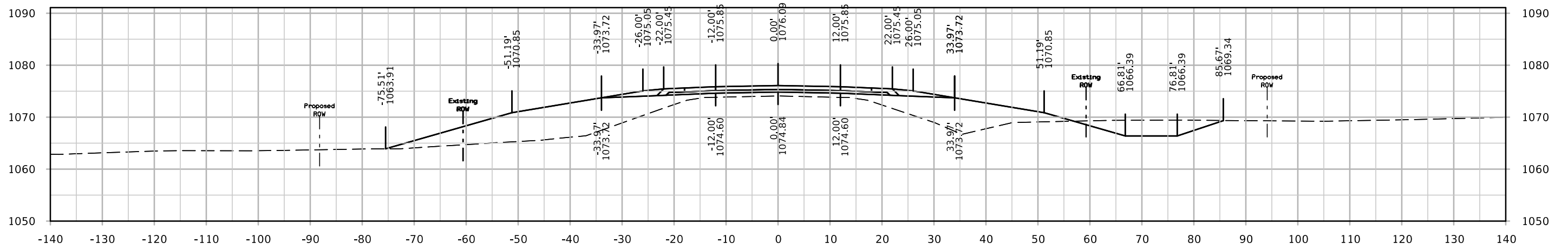
# IA 13

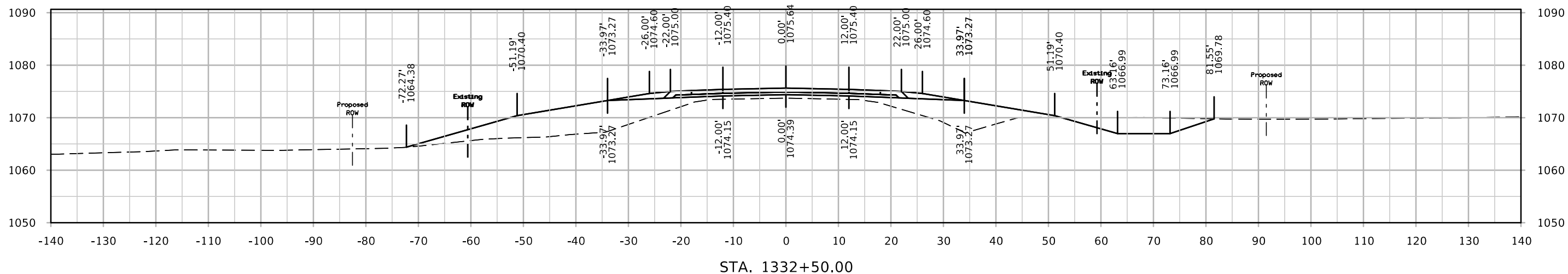
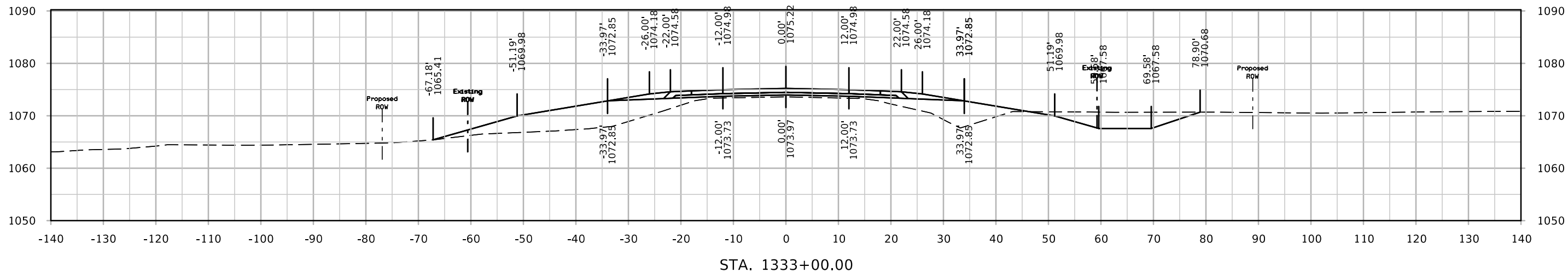
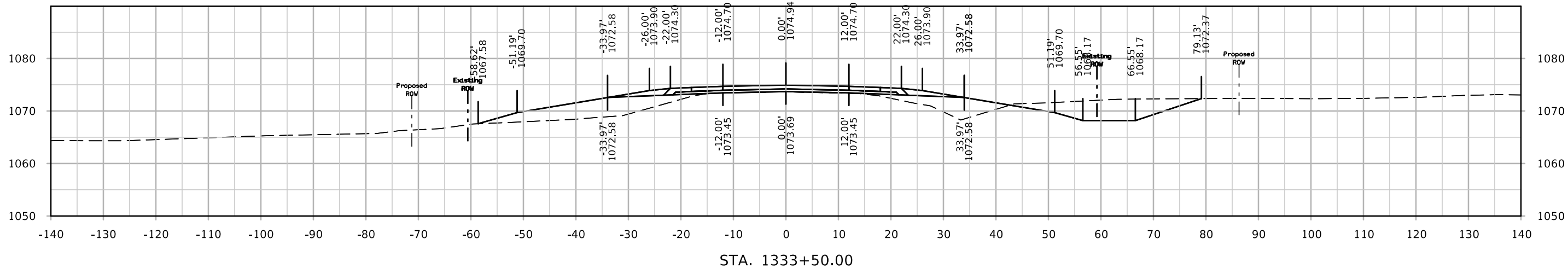


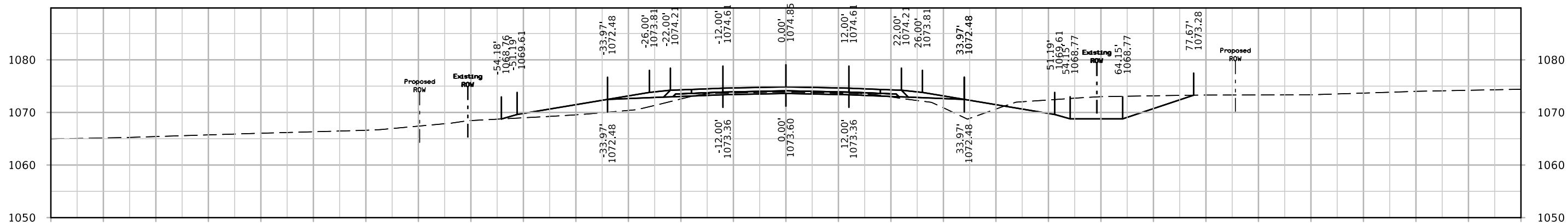
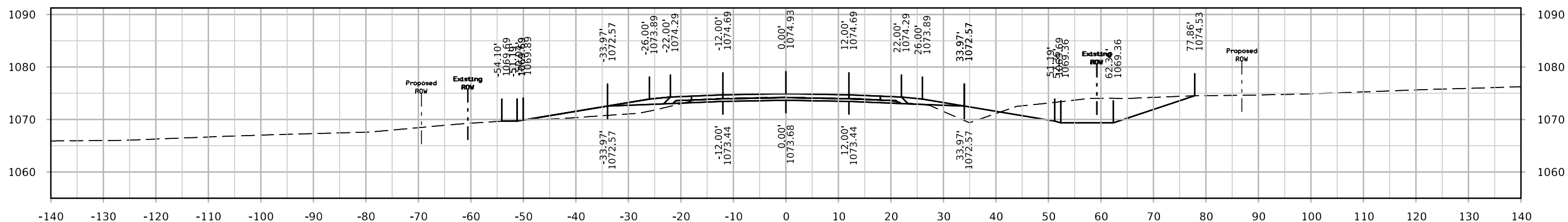
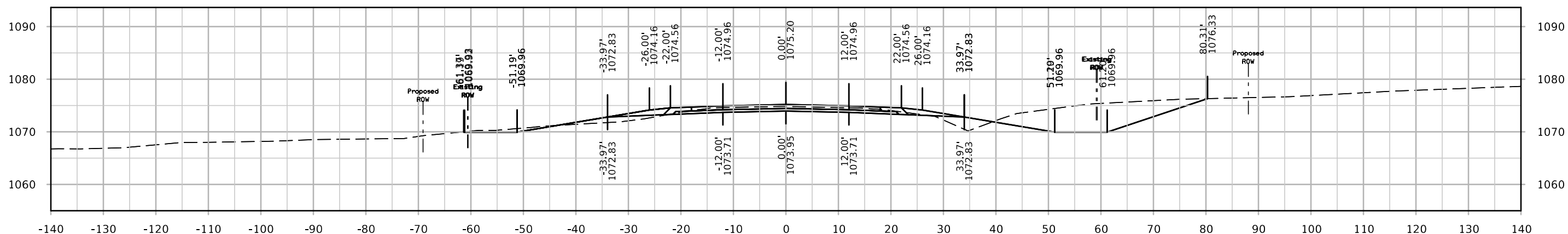


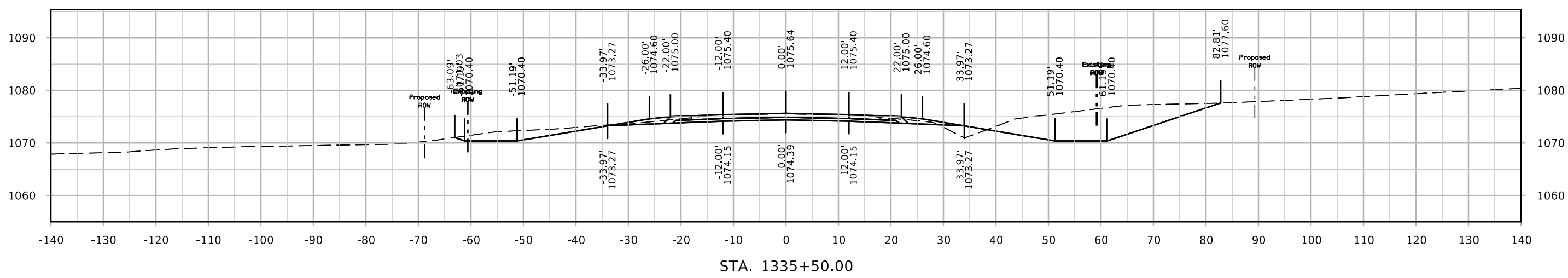
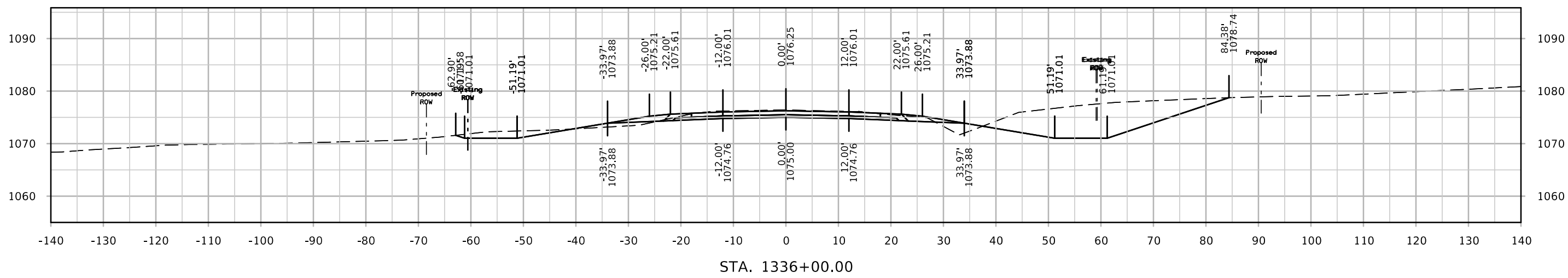
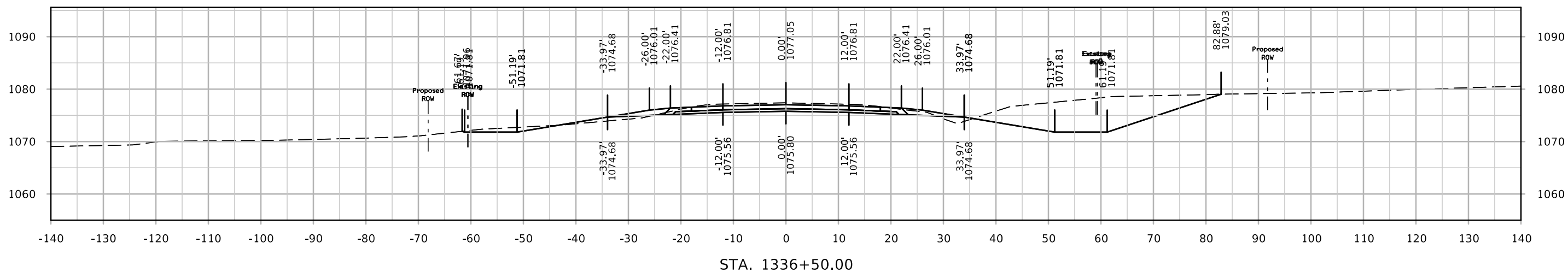


# IA 13

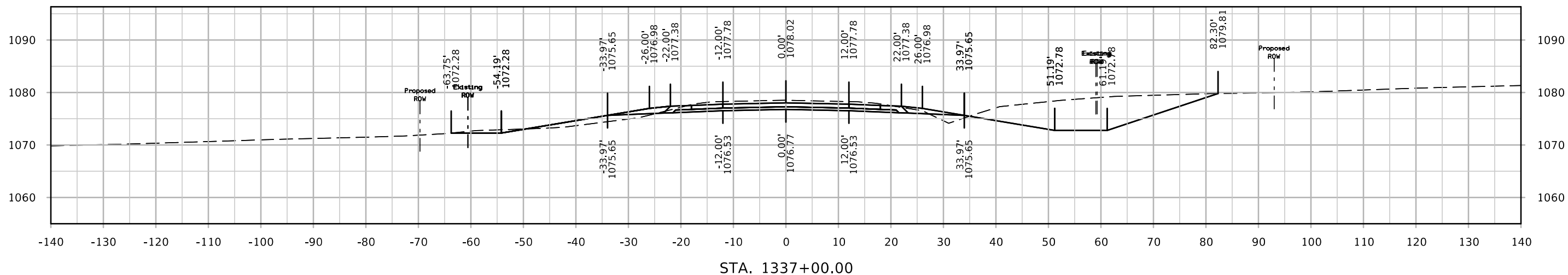
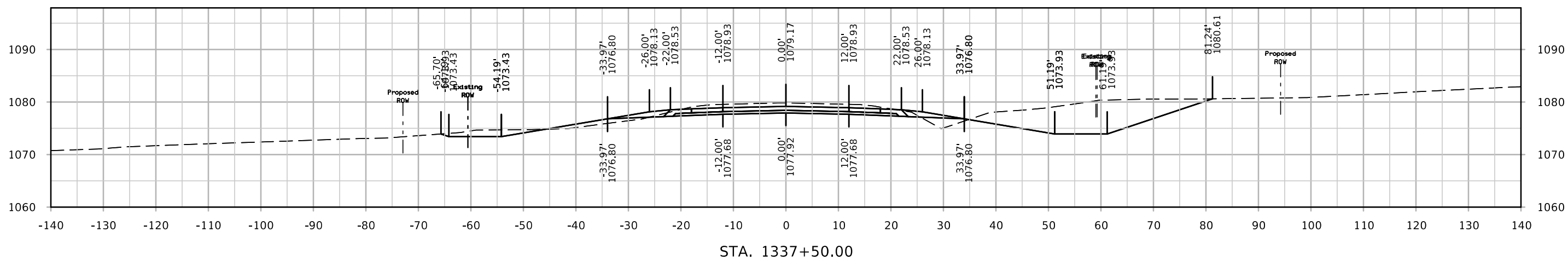
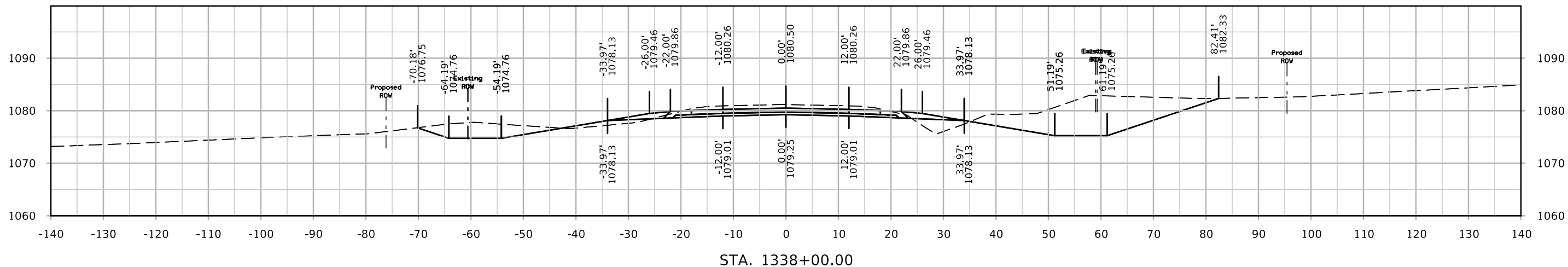


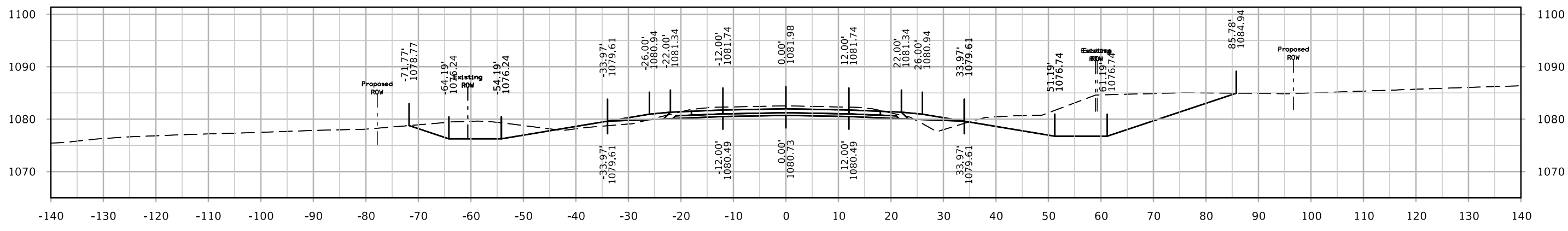
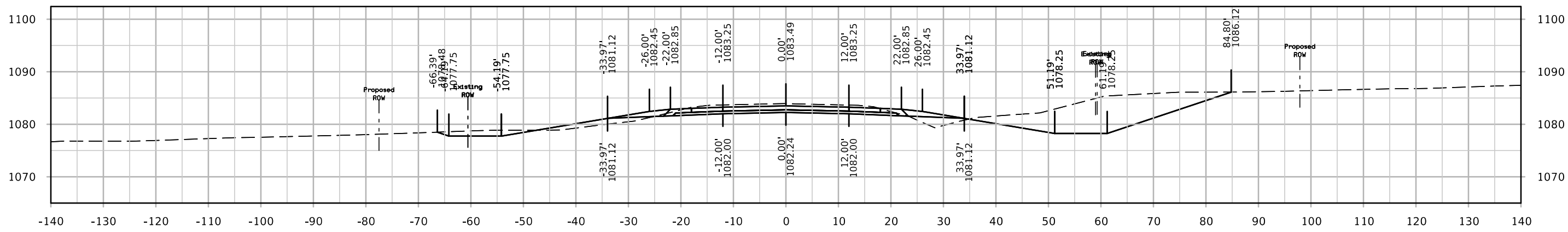
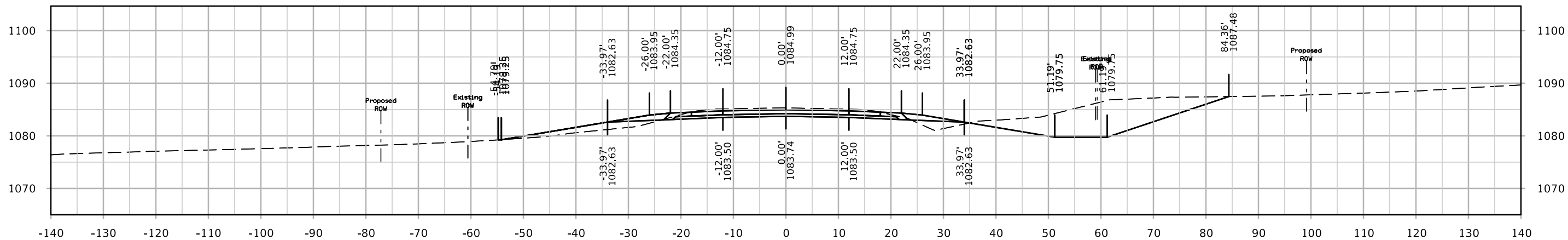


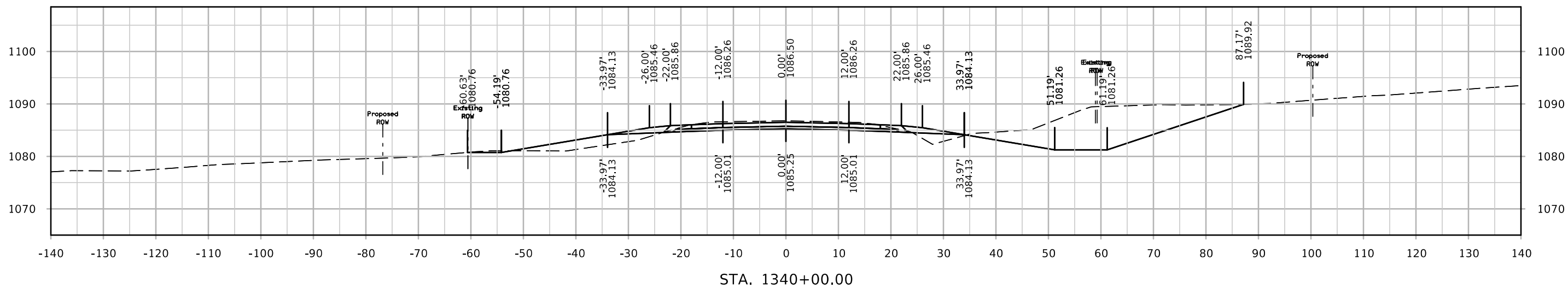
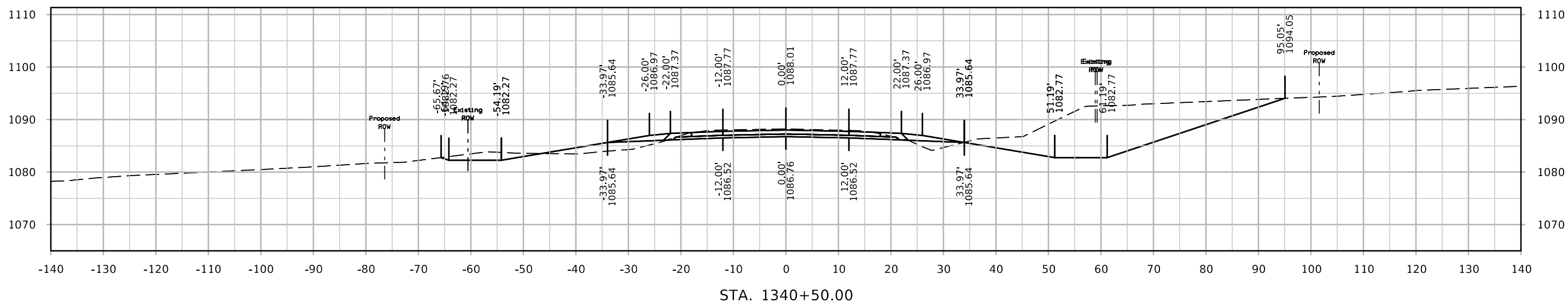


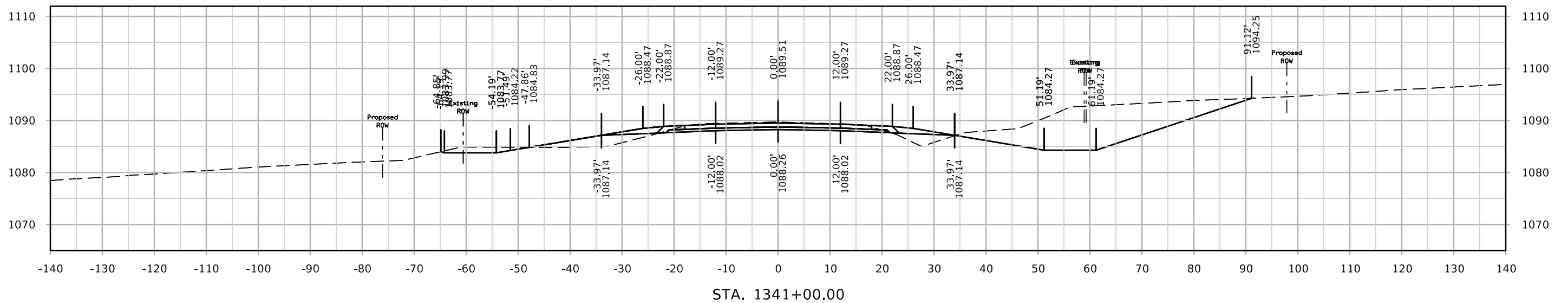
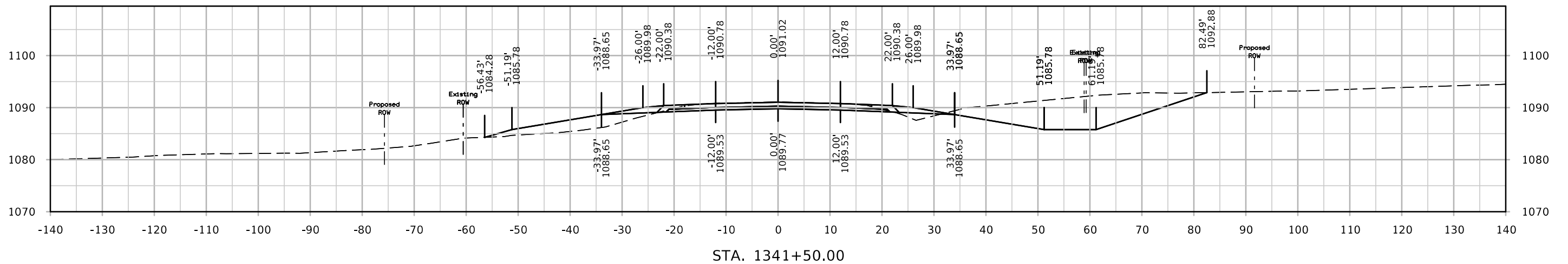
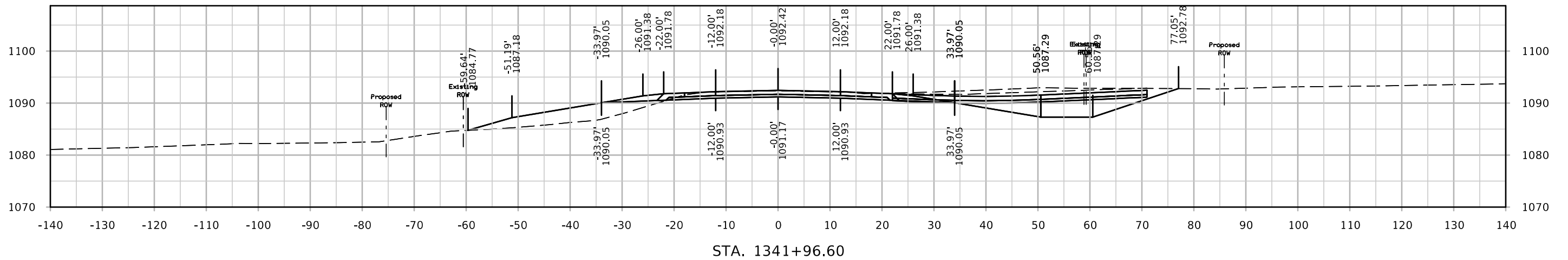


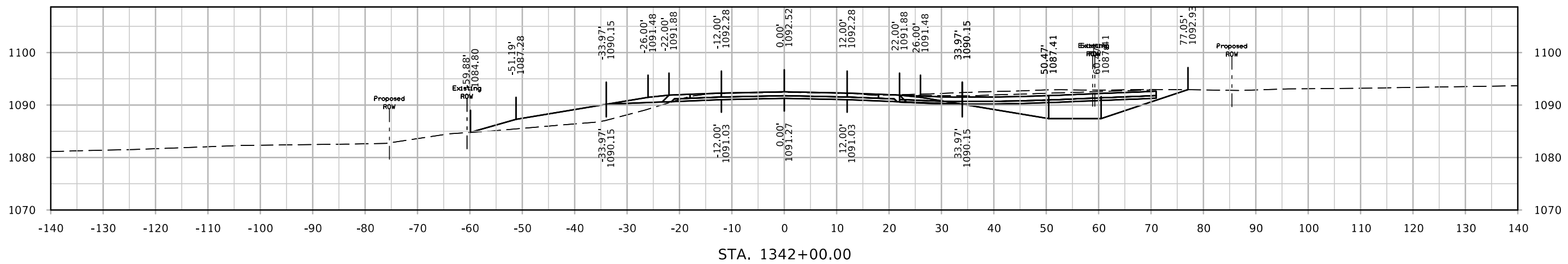
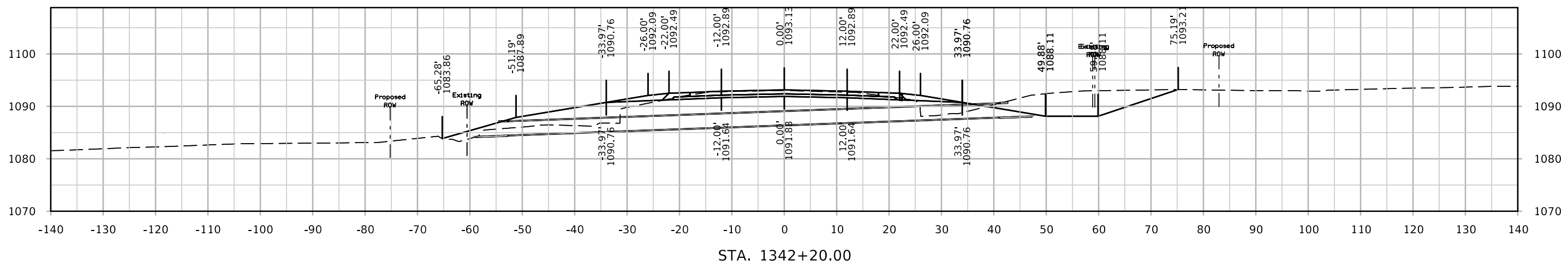
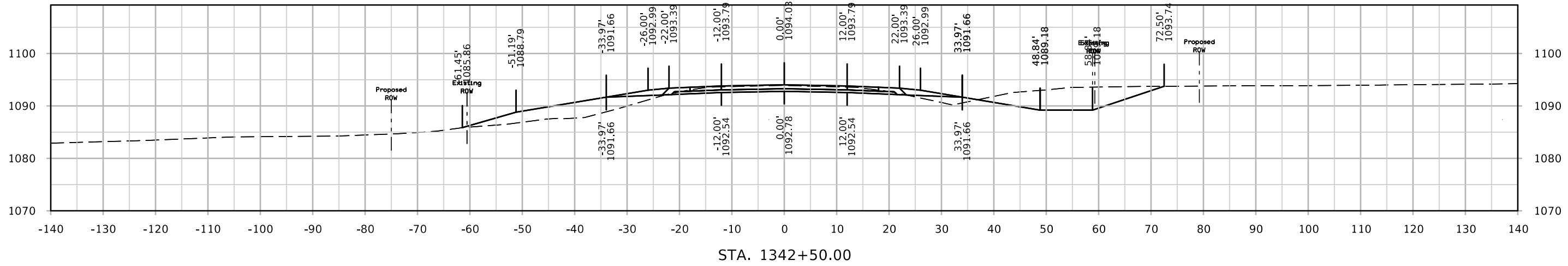


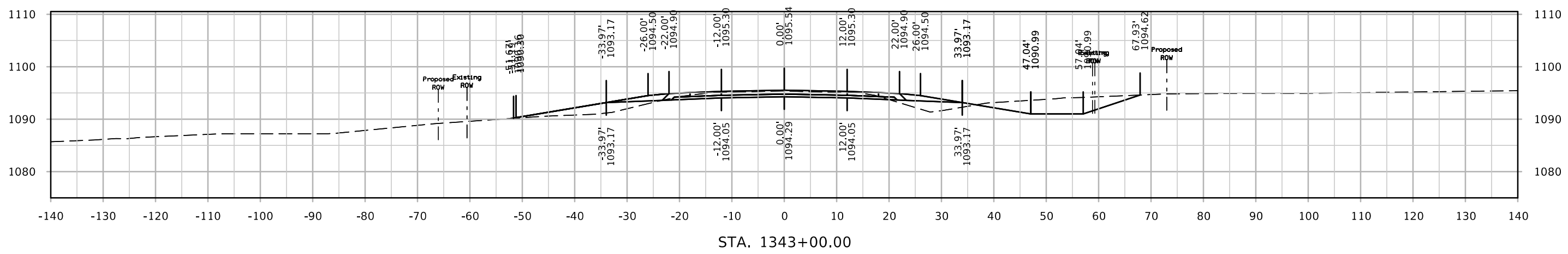
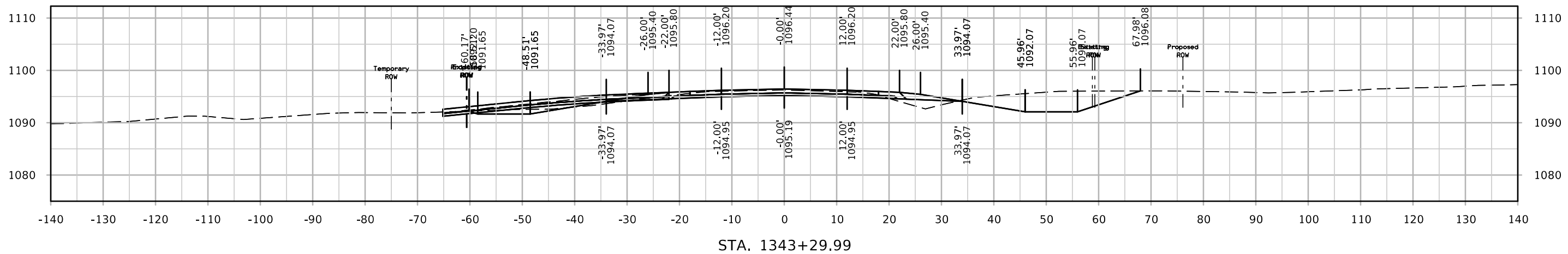
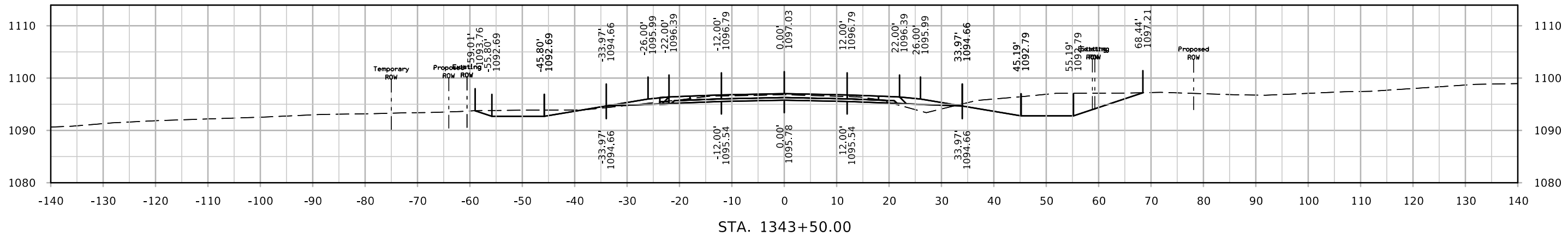


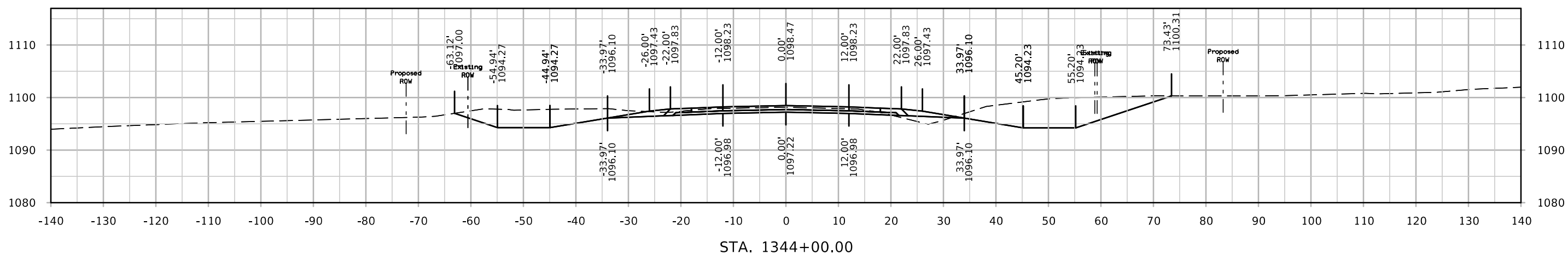
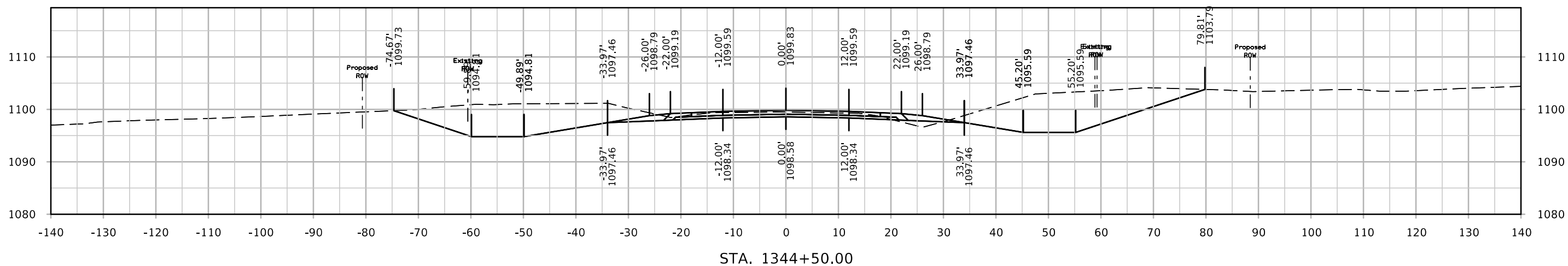
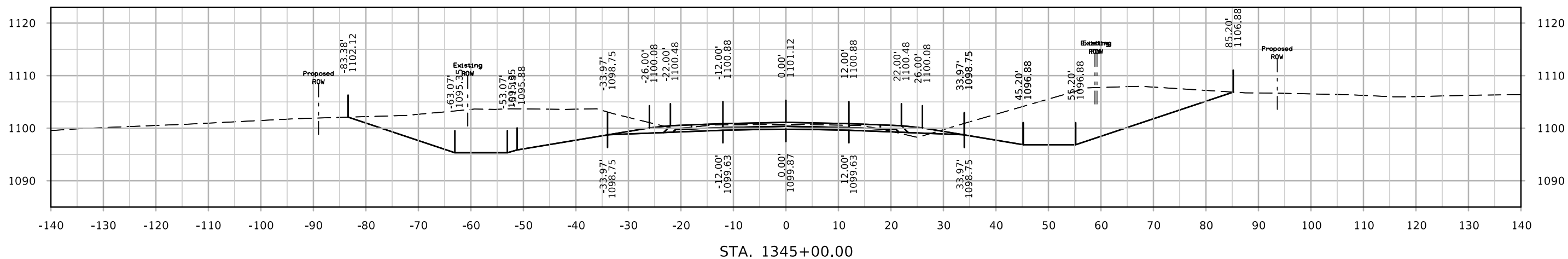




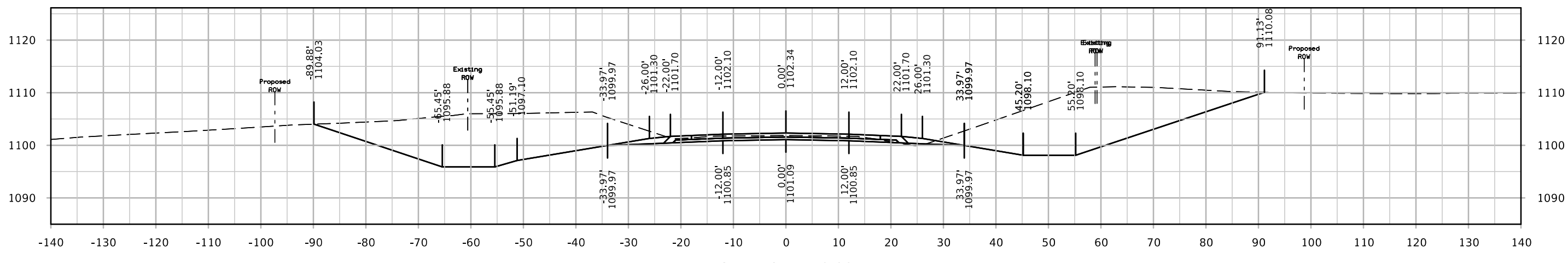
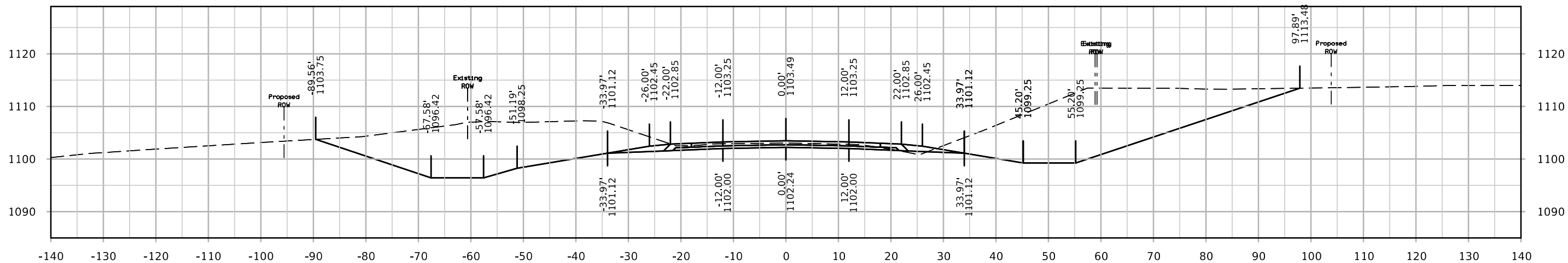
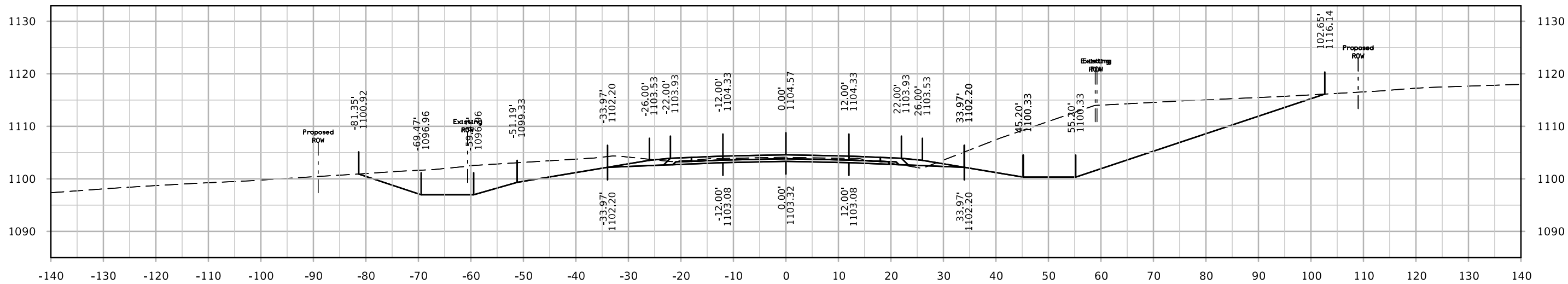




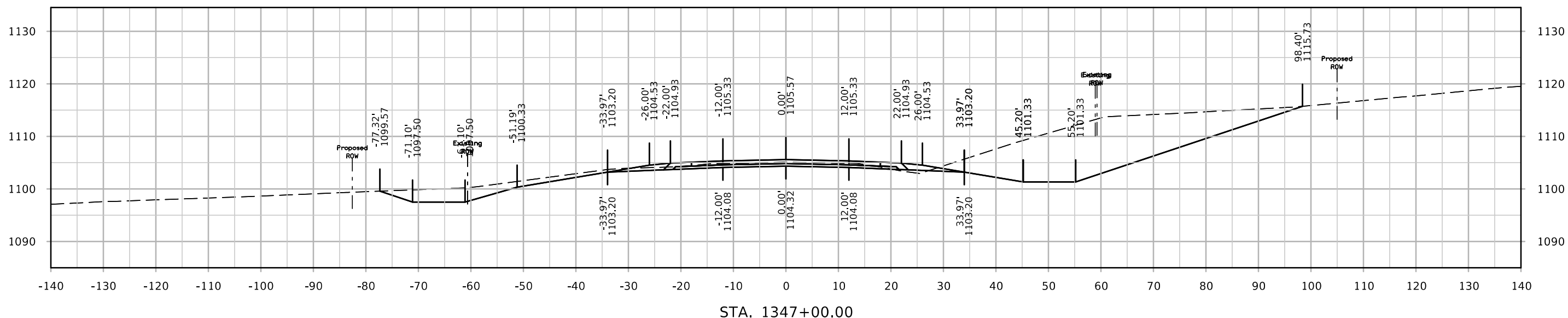
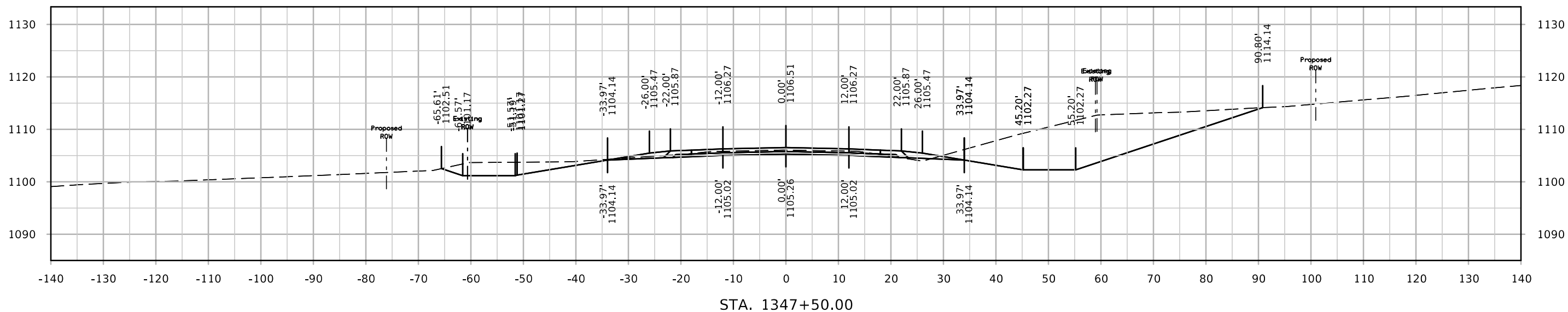




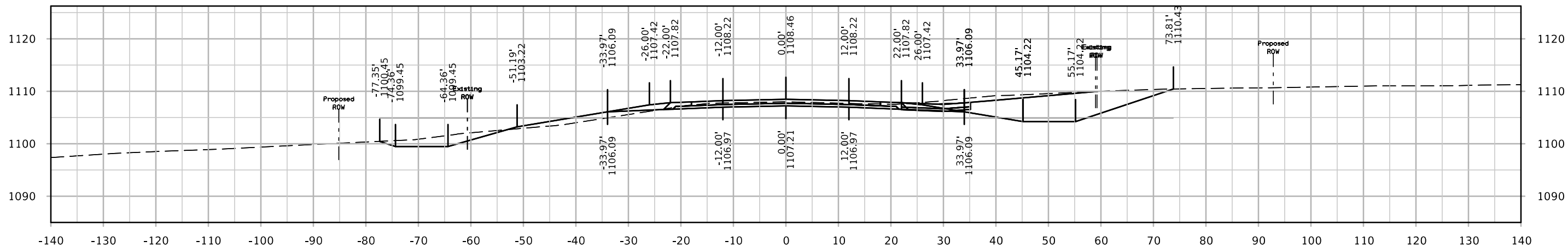
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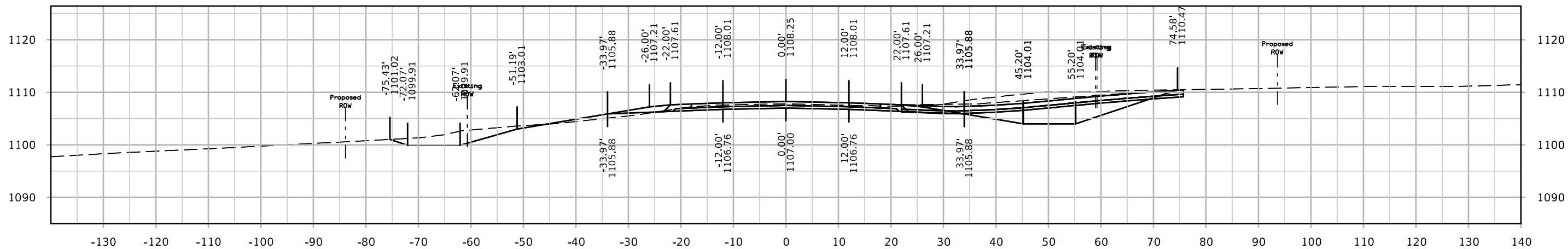




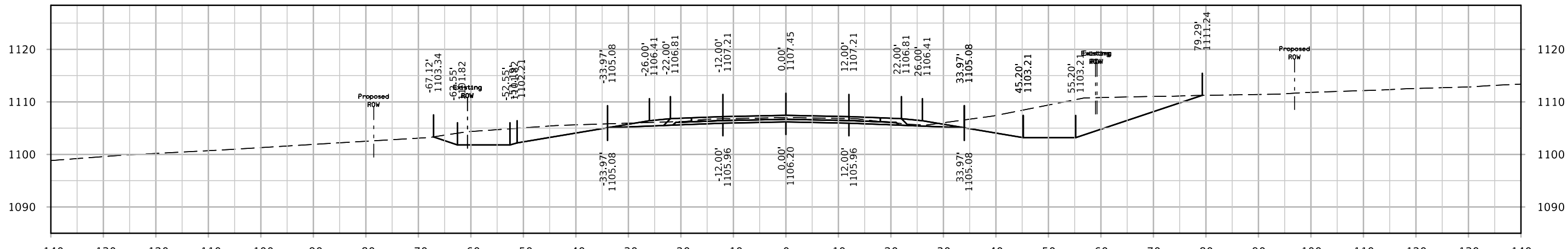
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STA. 1348+50.00

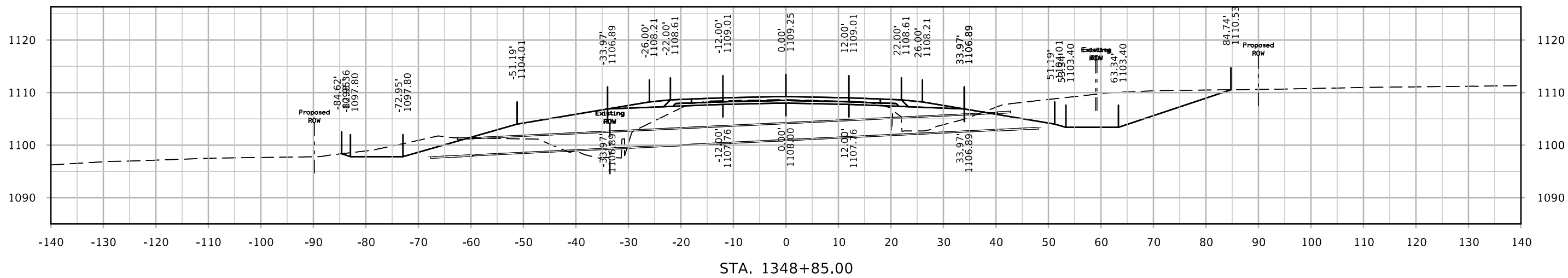
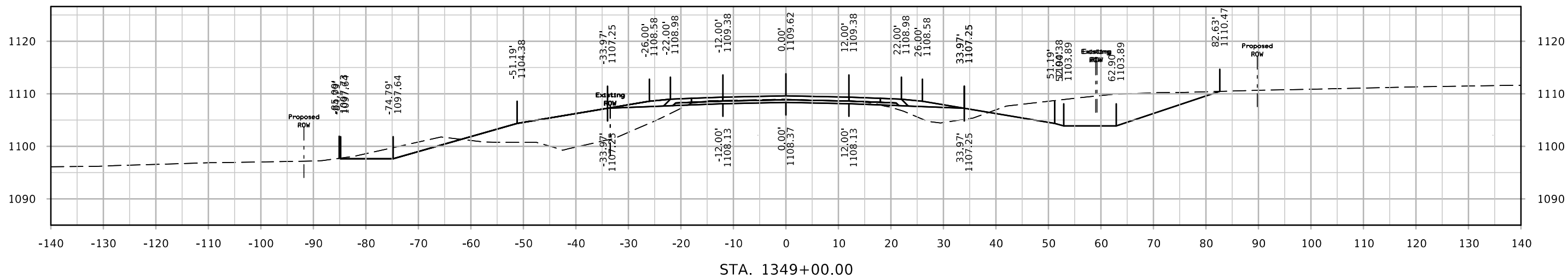
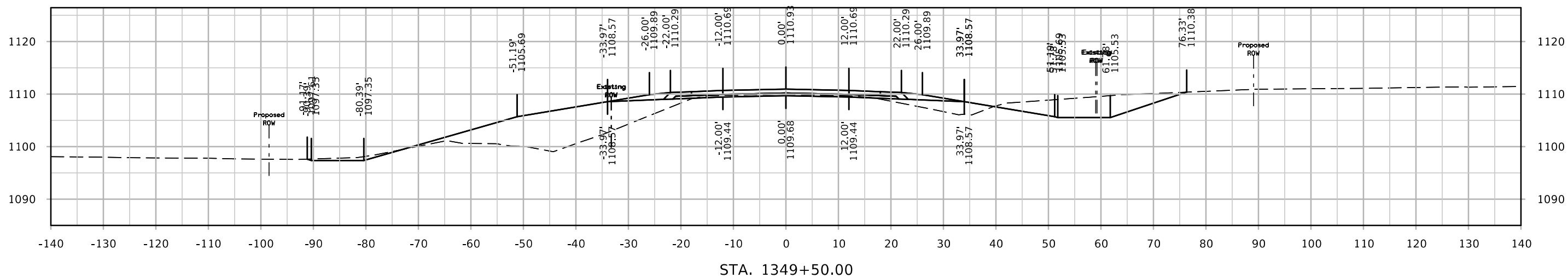


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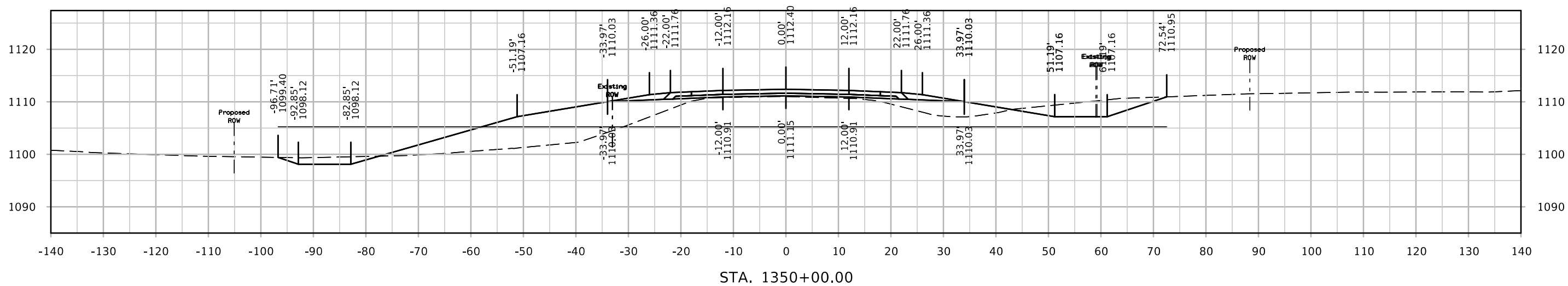
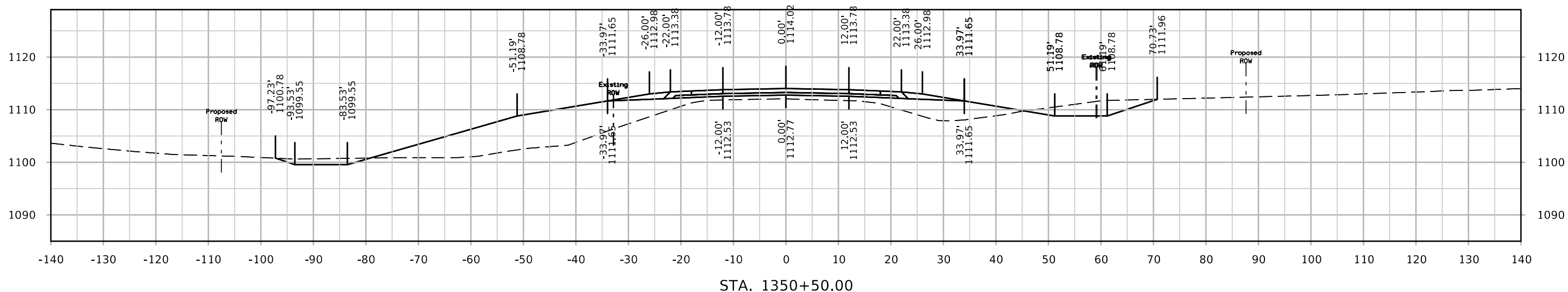
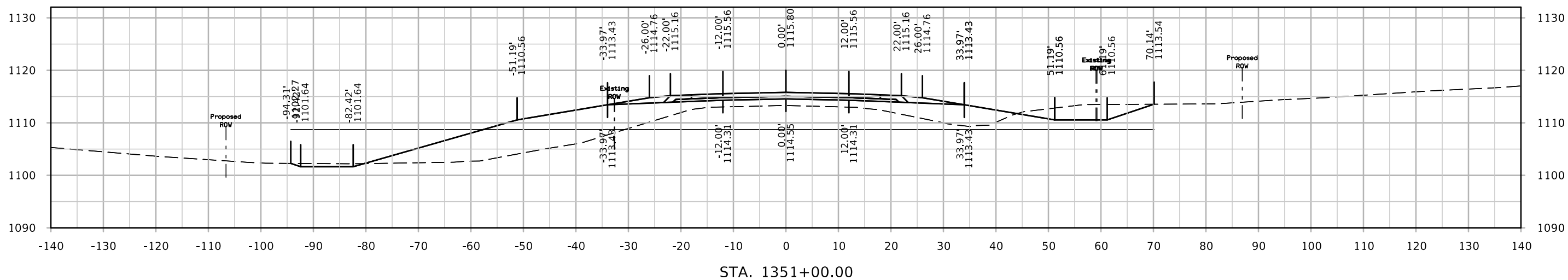


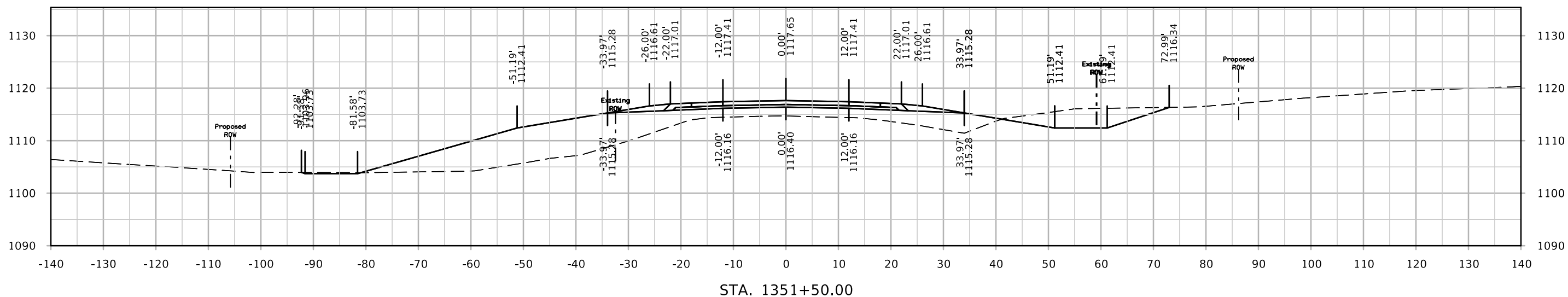
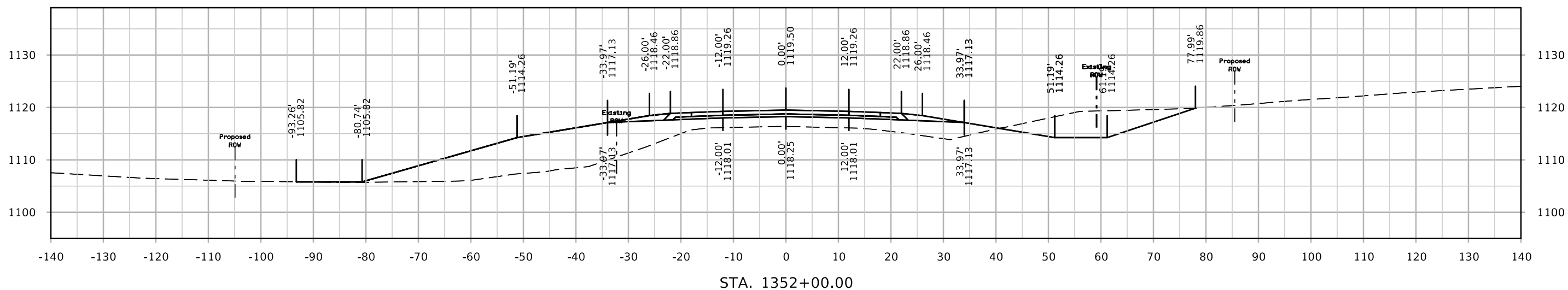
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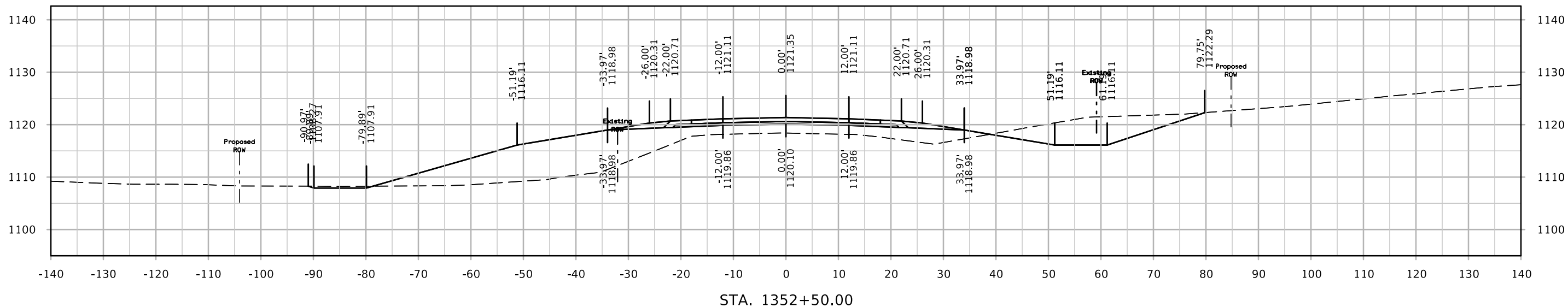
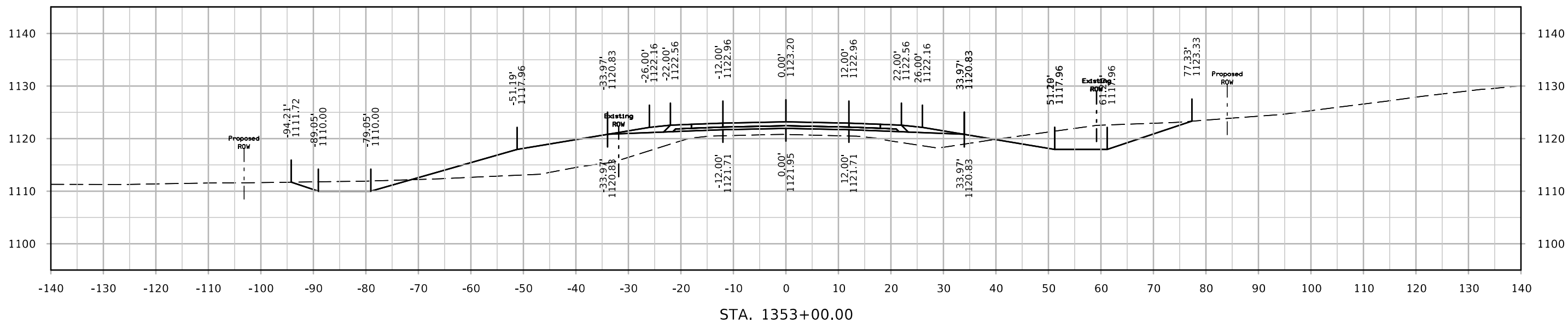
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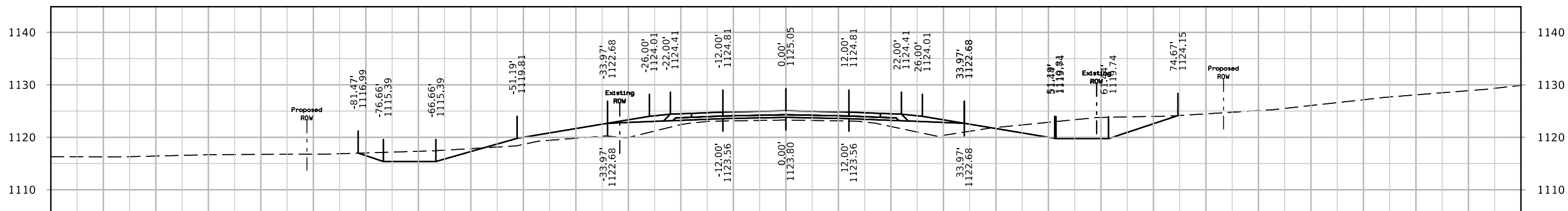
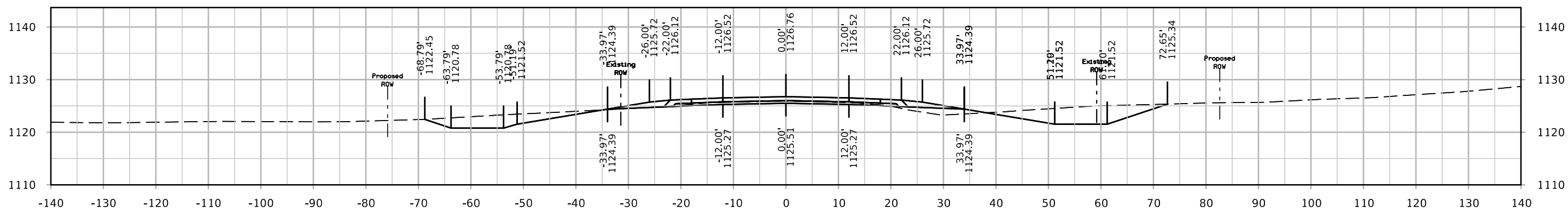
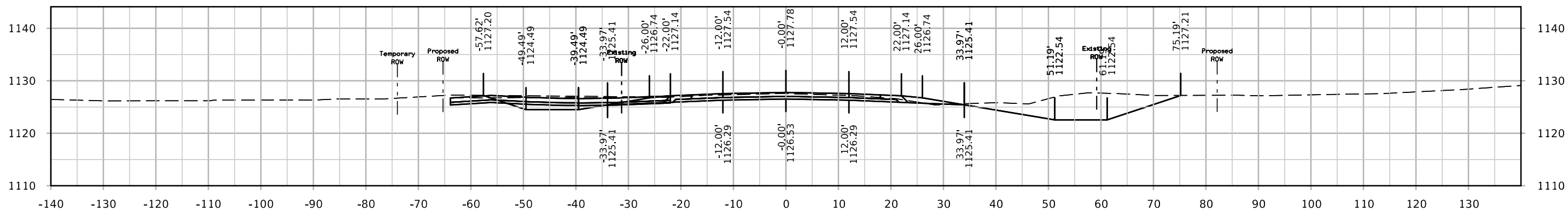


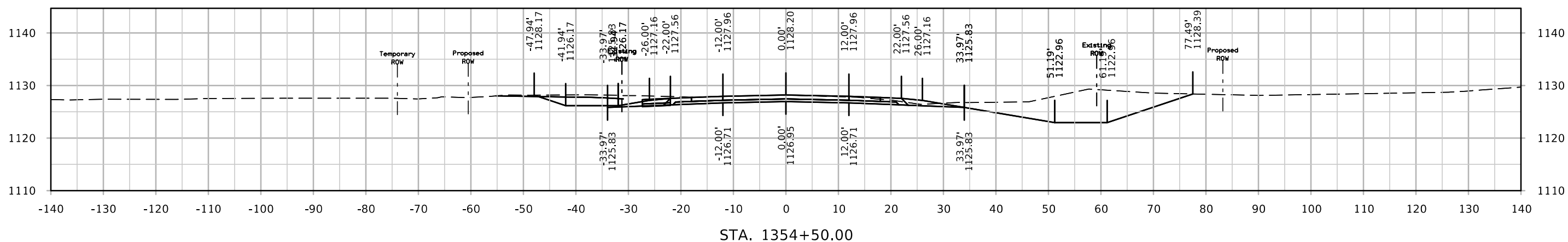
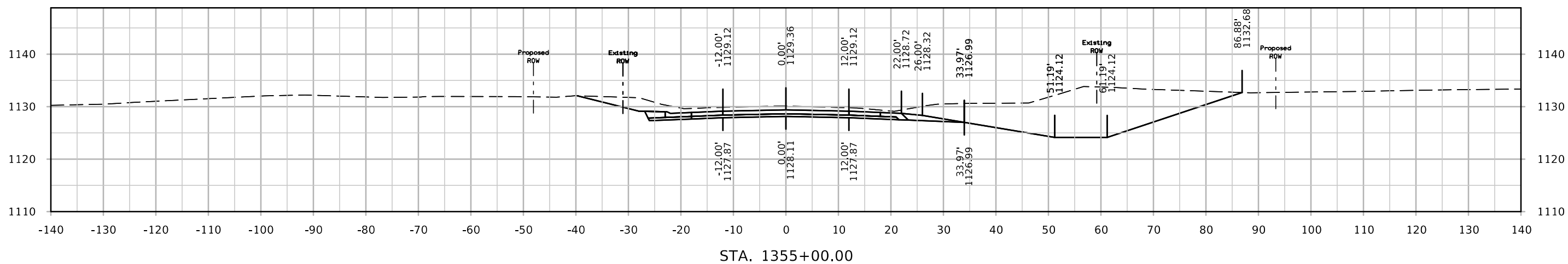
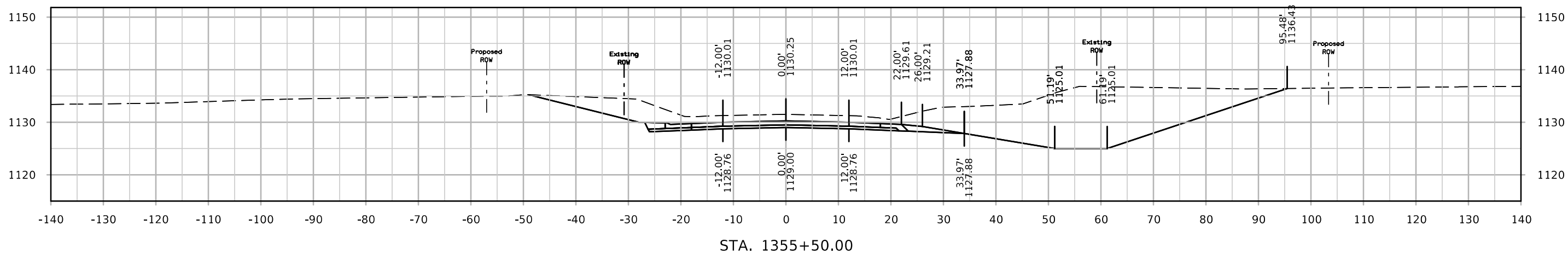
# IA 13



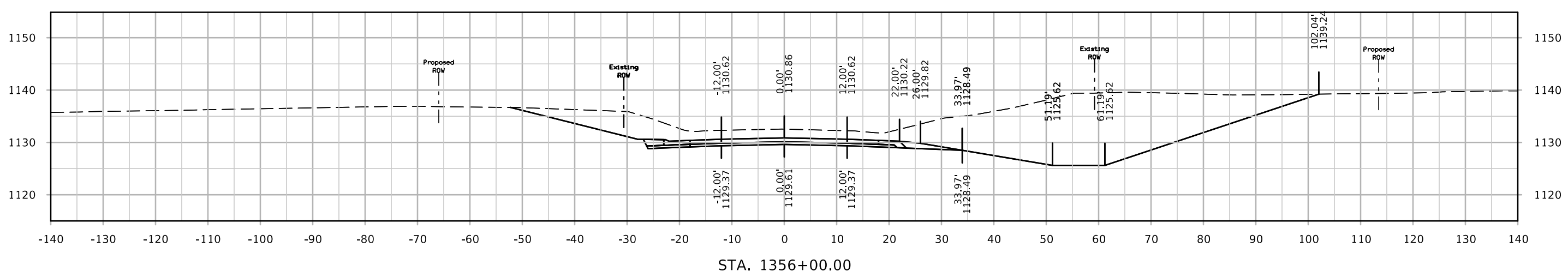
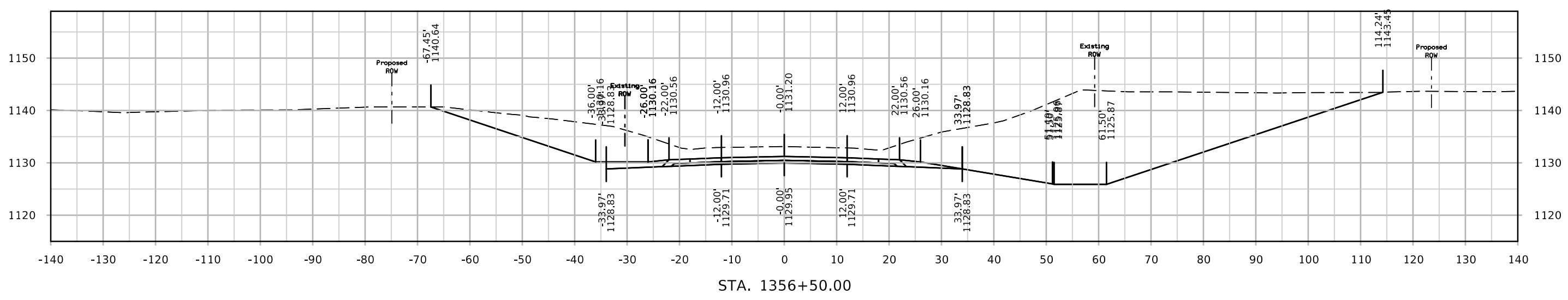
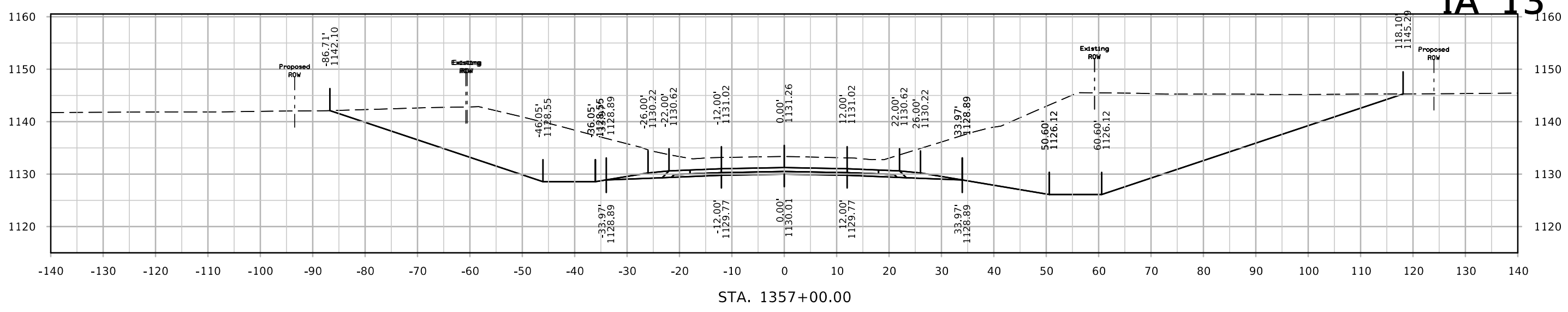




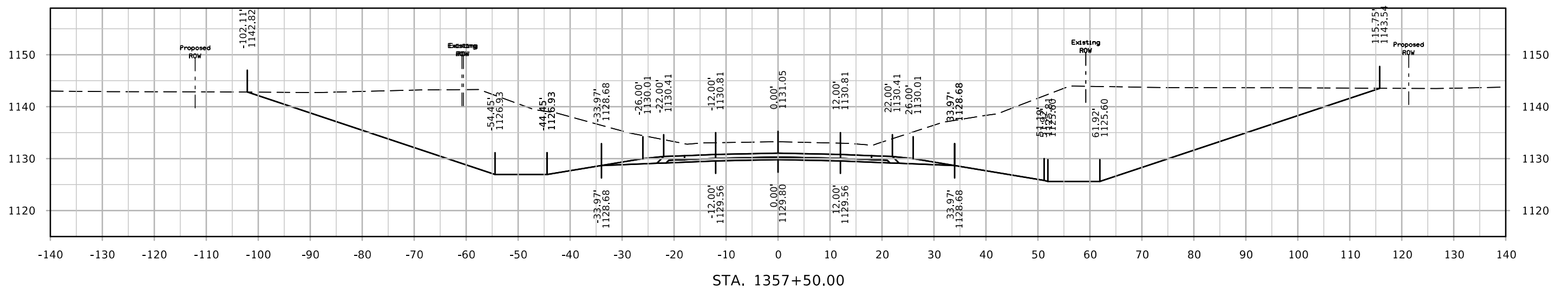
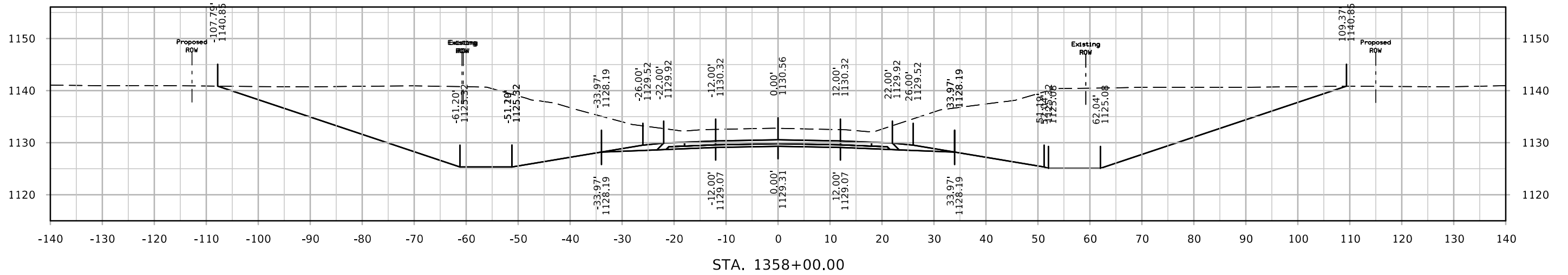
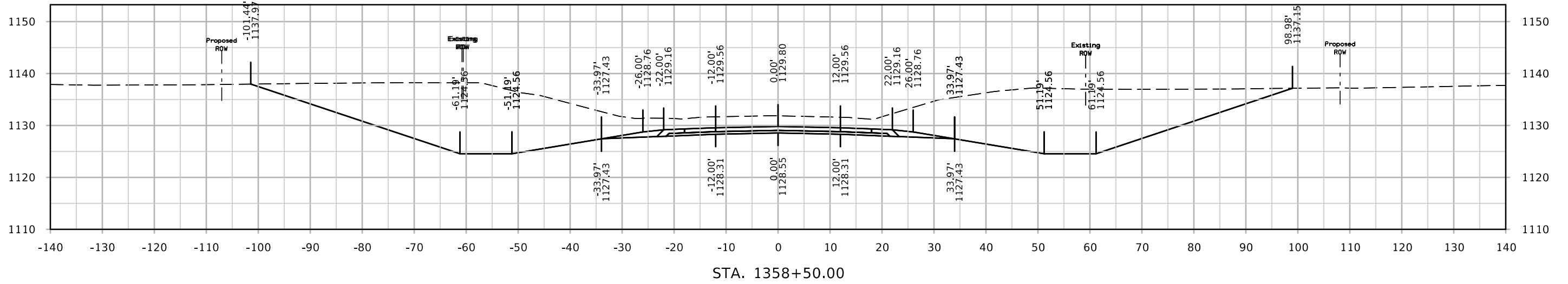


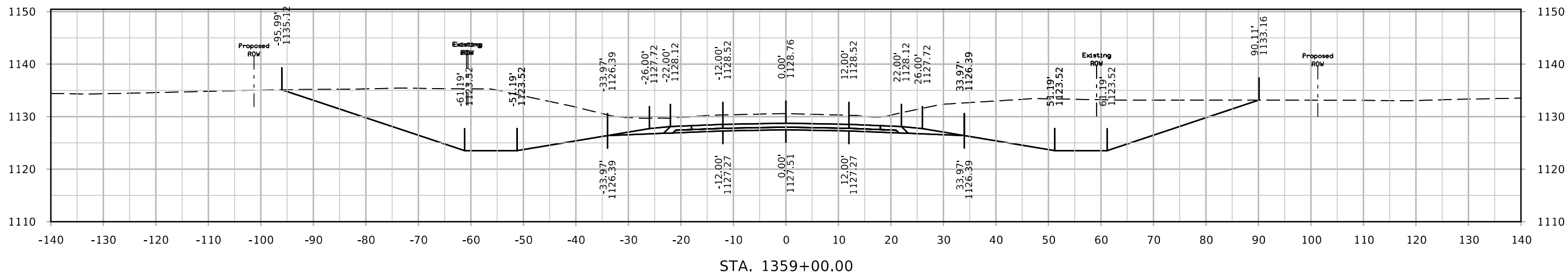
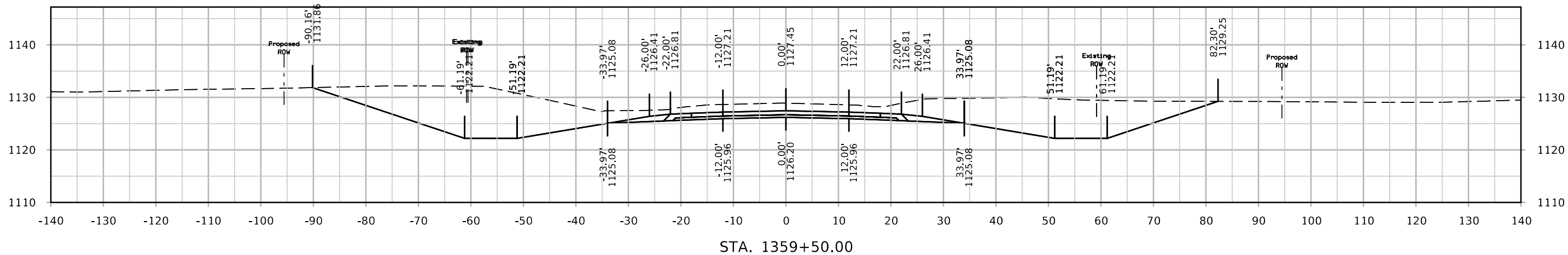
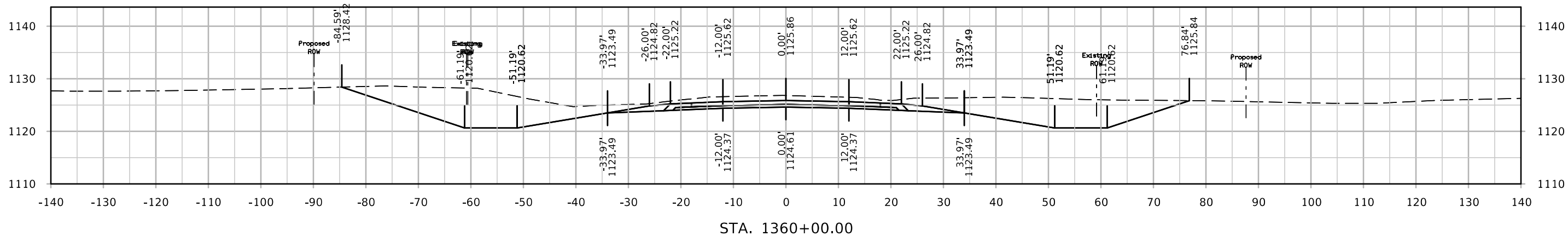


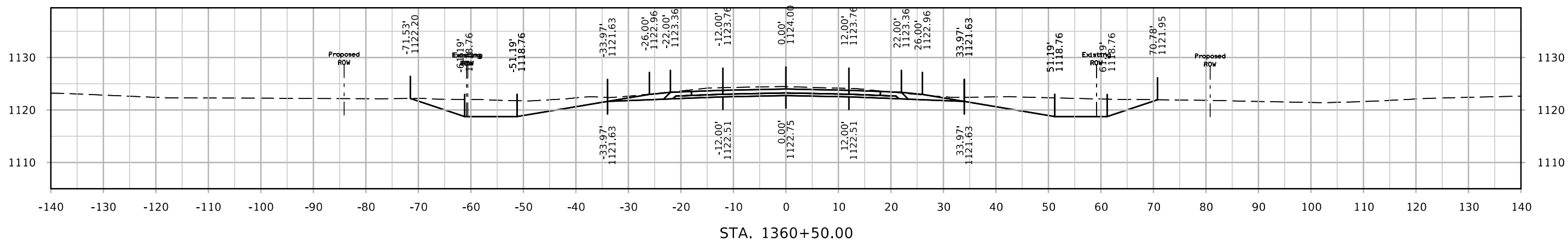
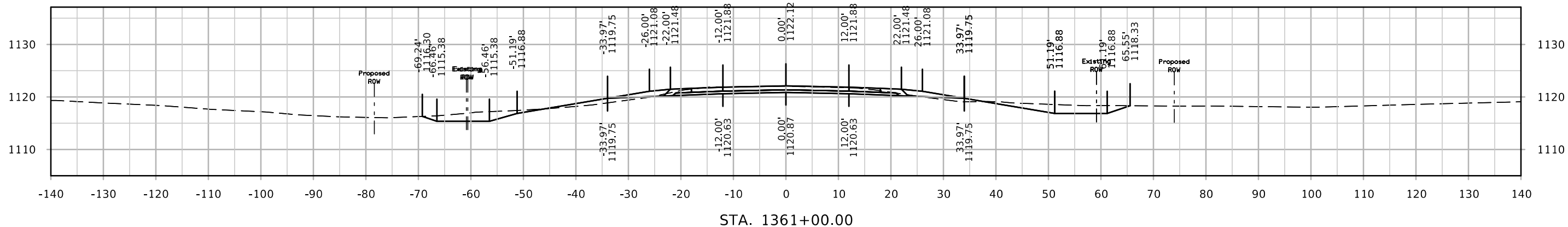
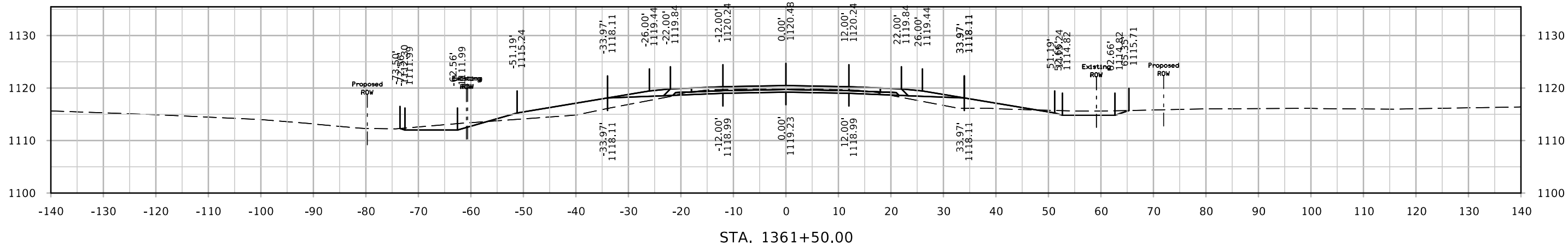


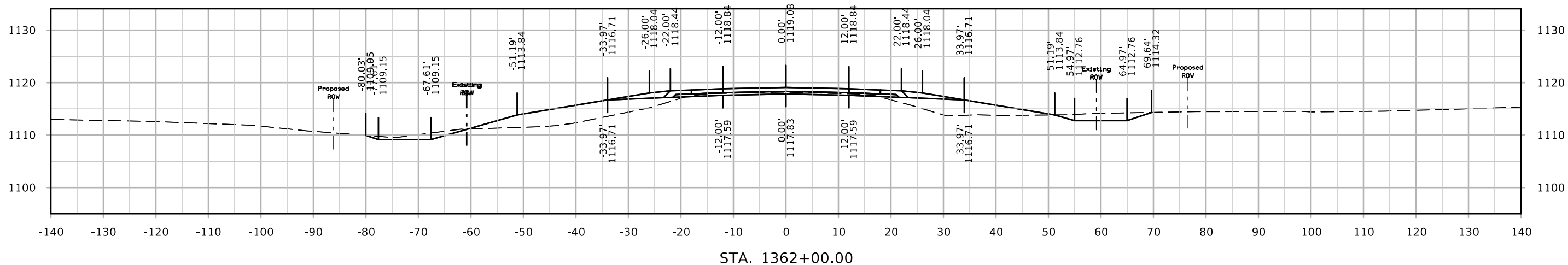
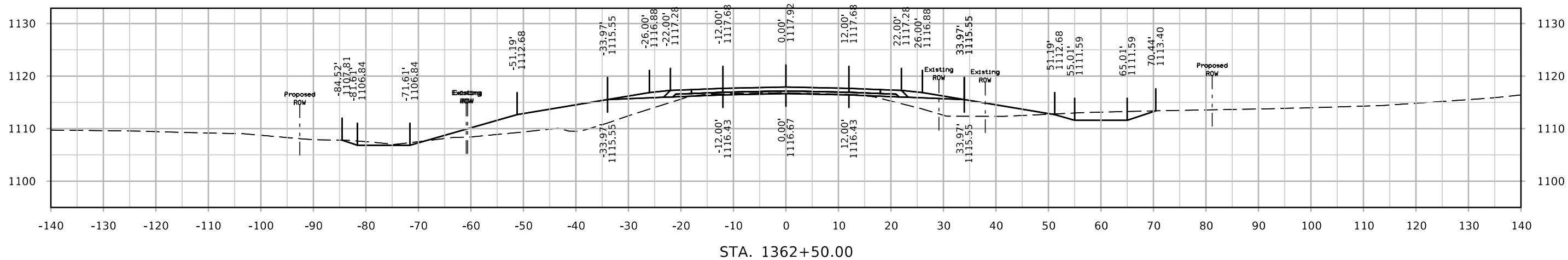
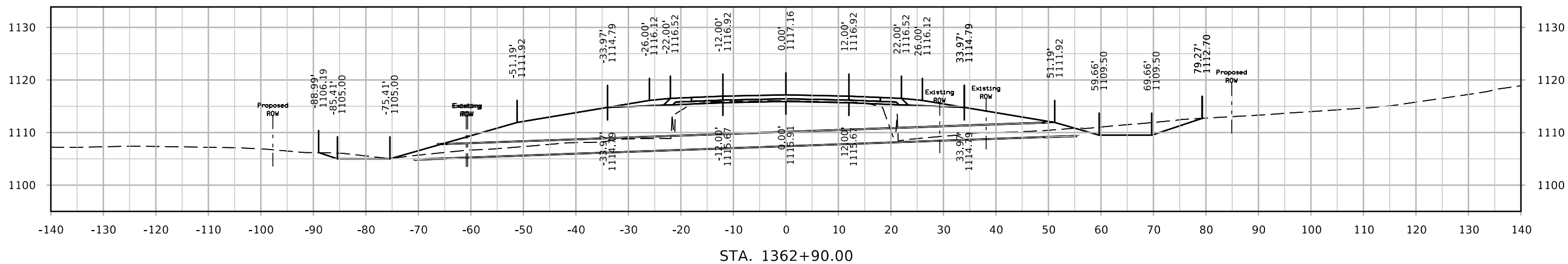


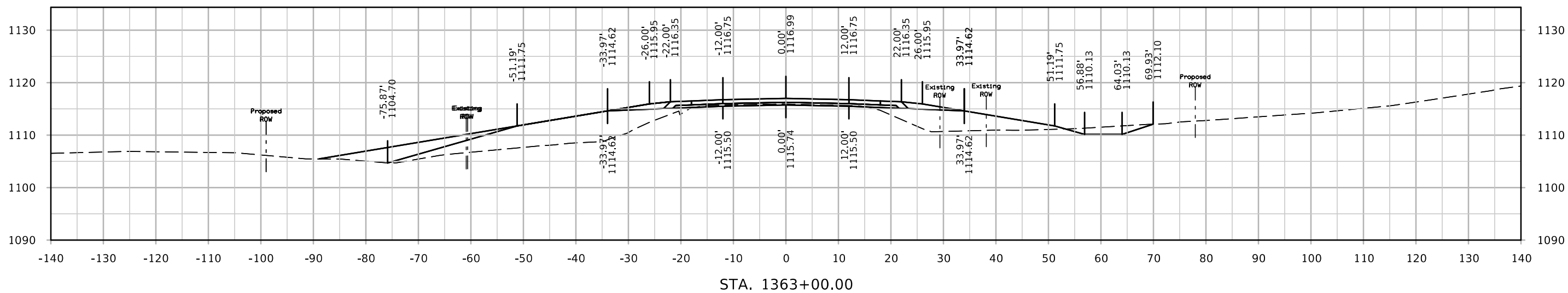
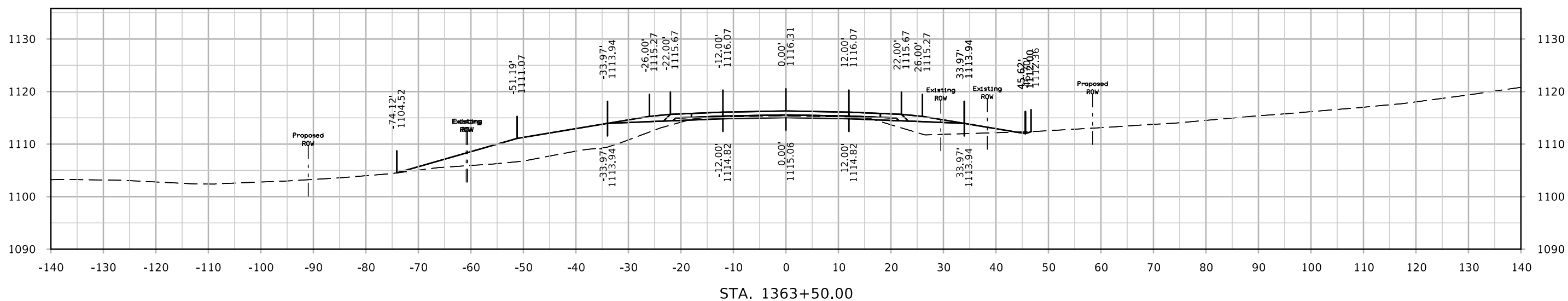
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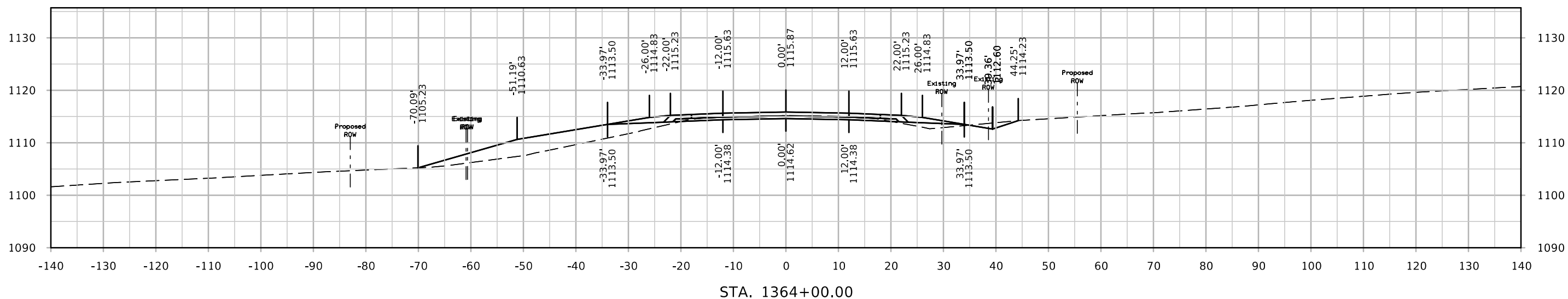
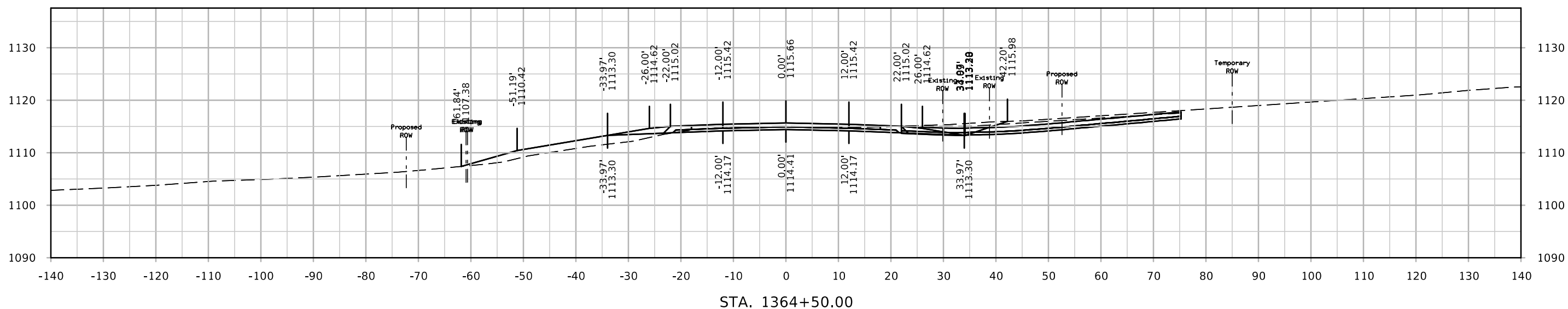


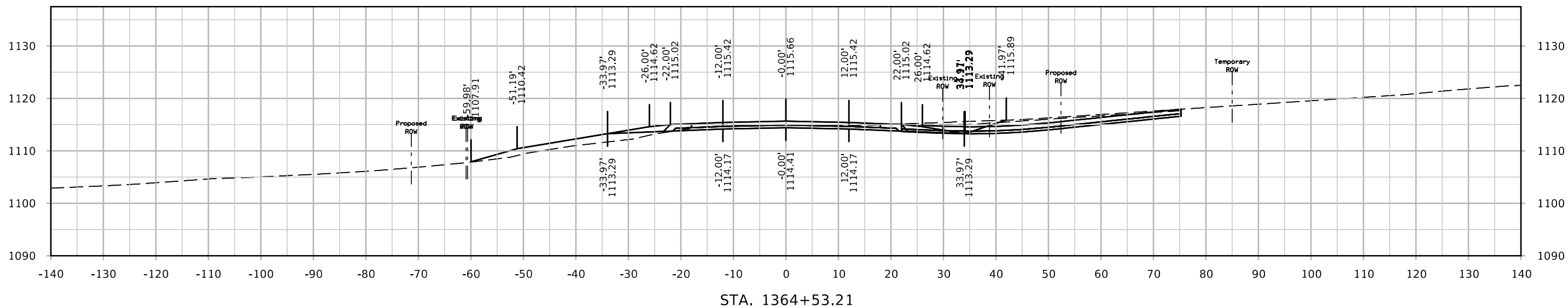
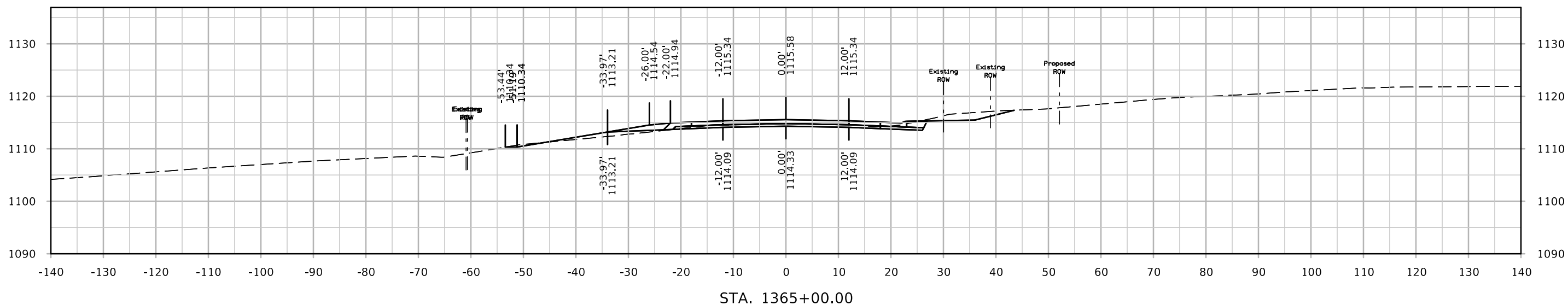




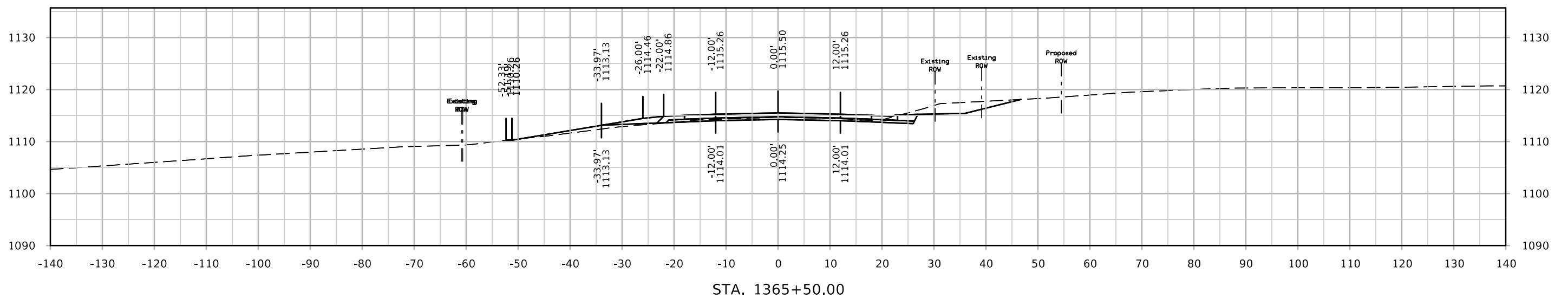
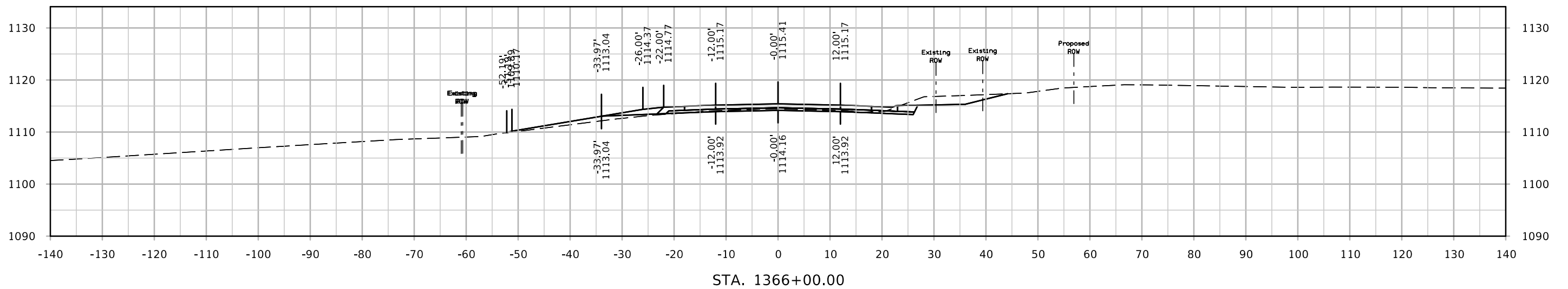
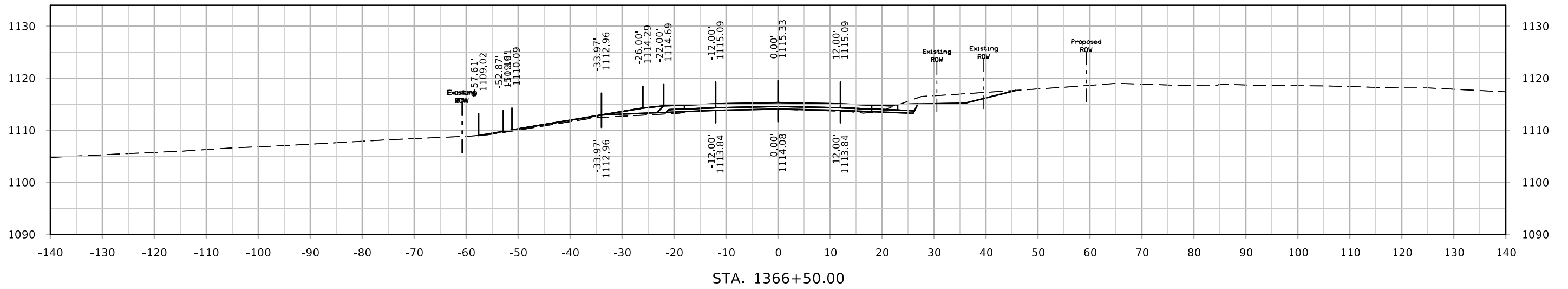




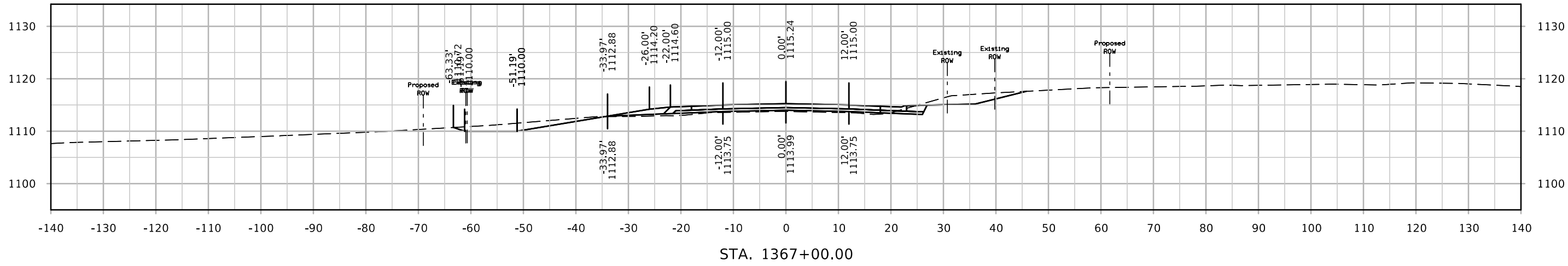
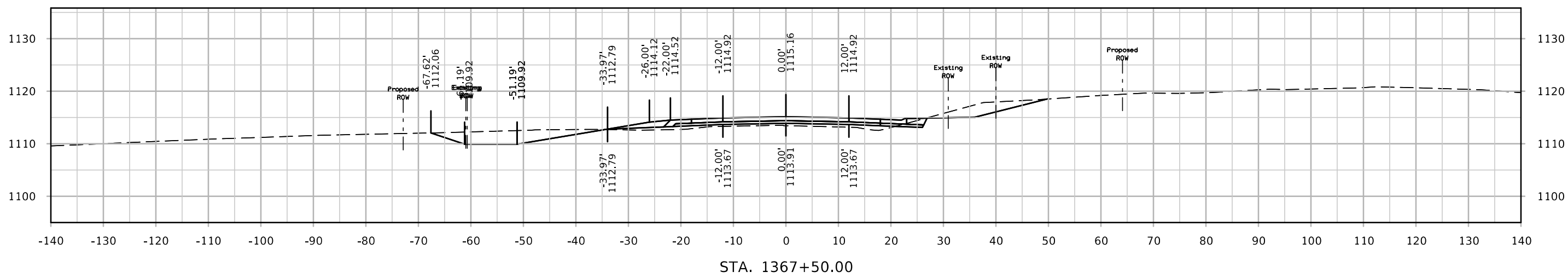
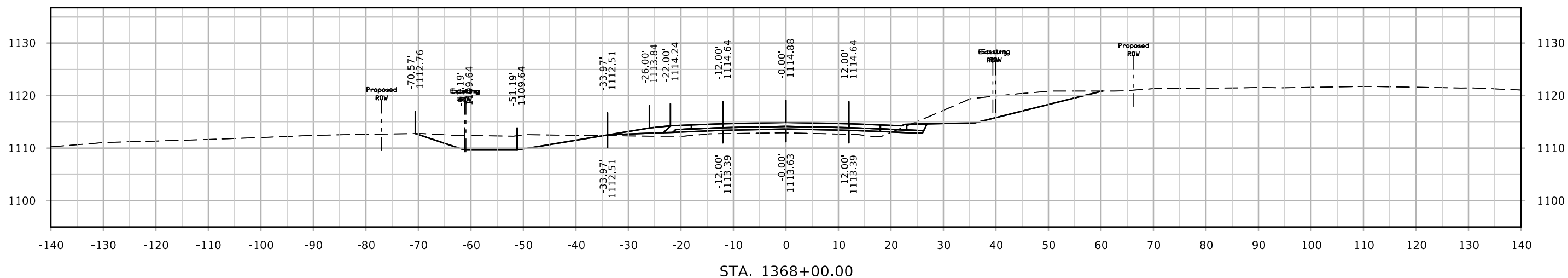


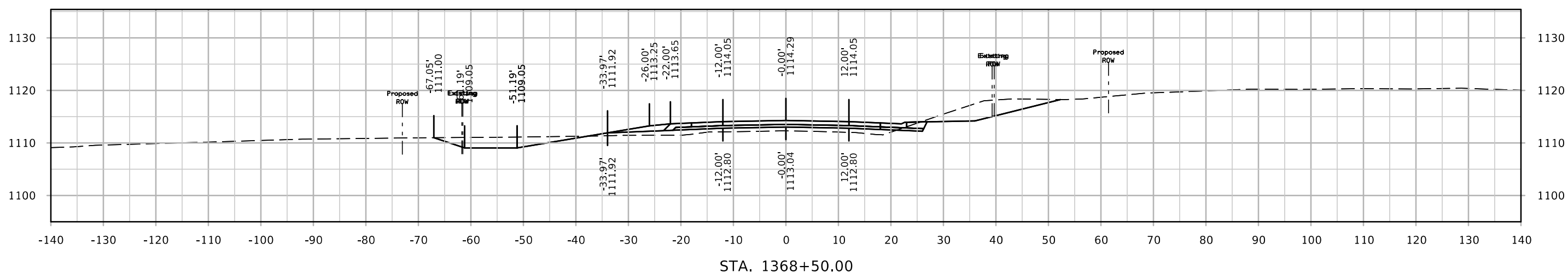
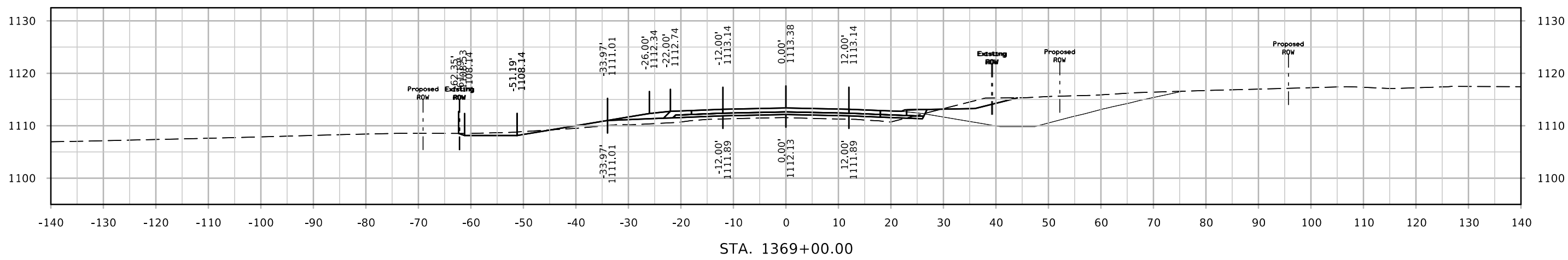
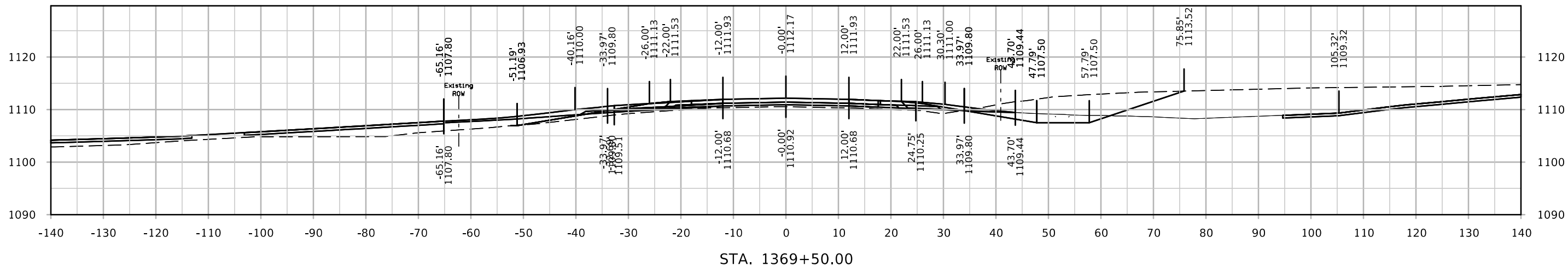


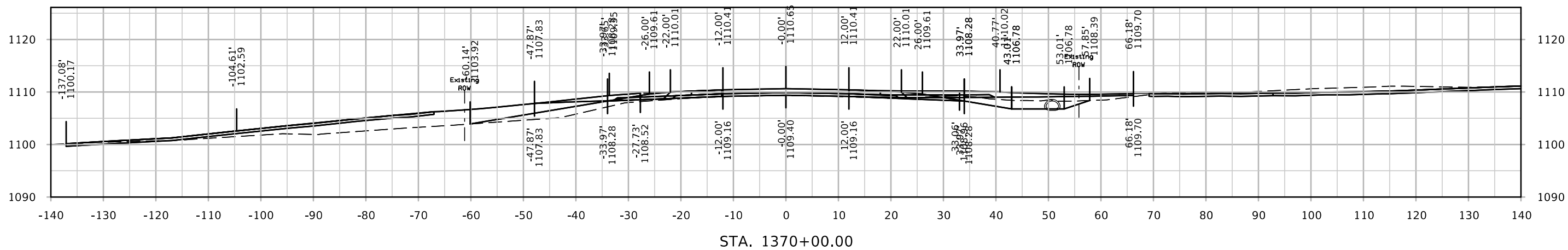
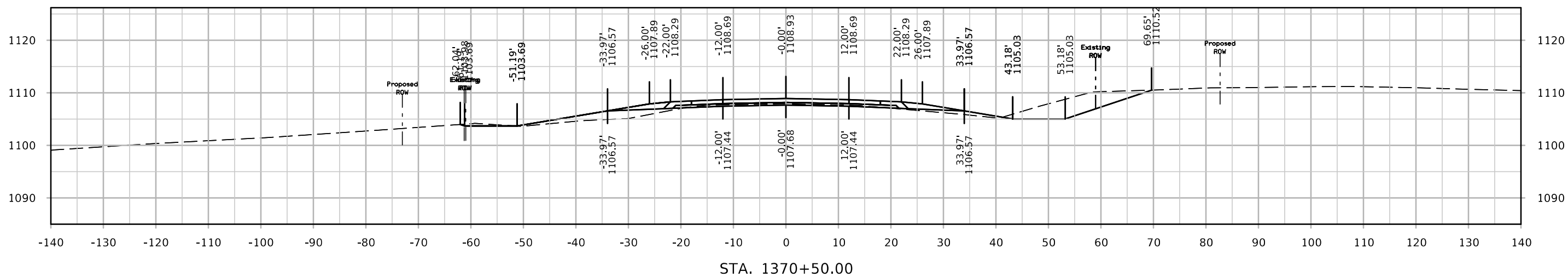
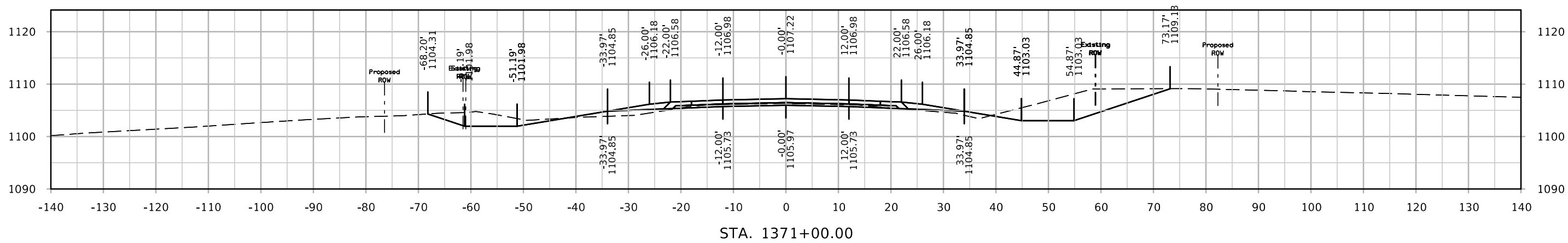


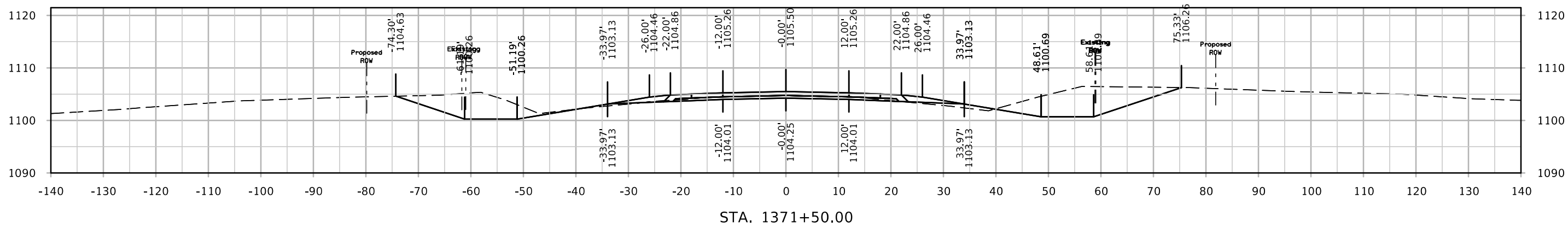
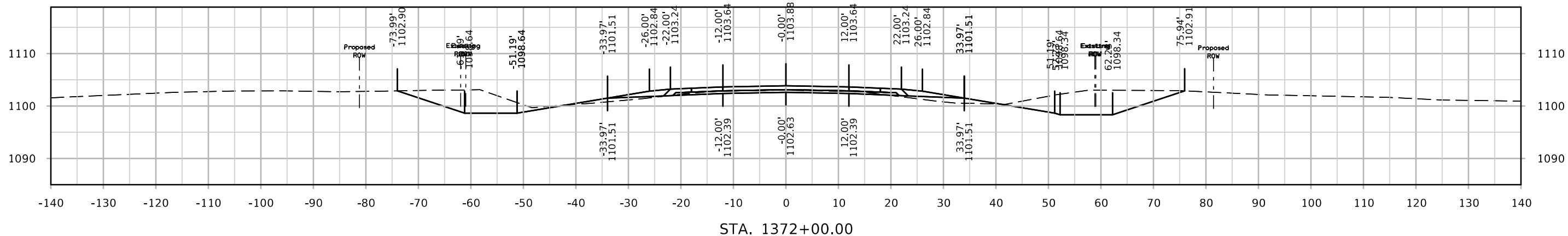
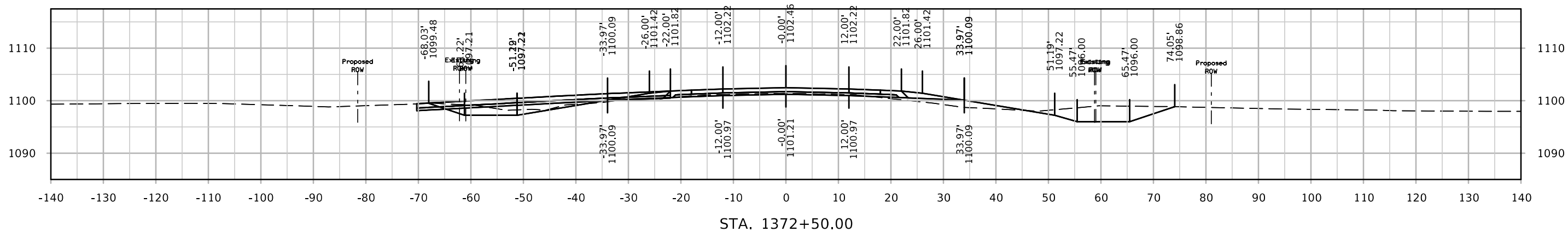


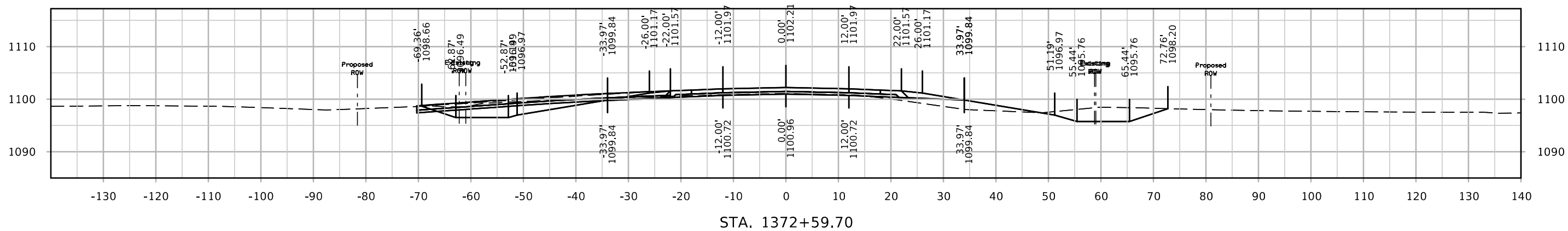
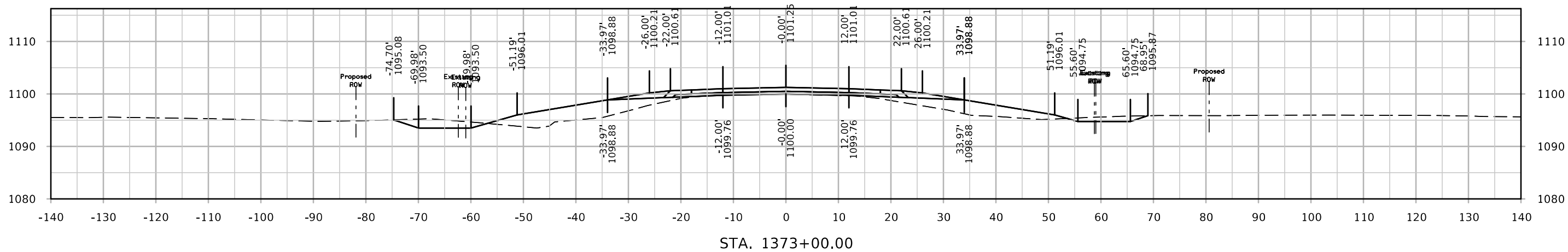
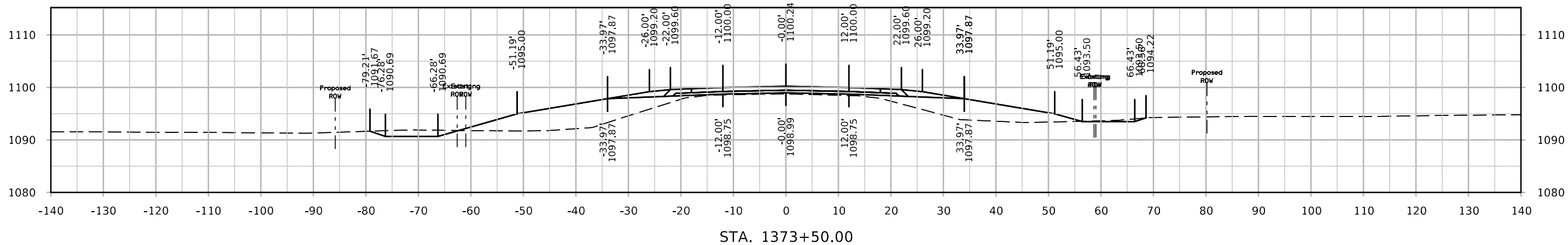
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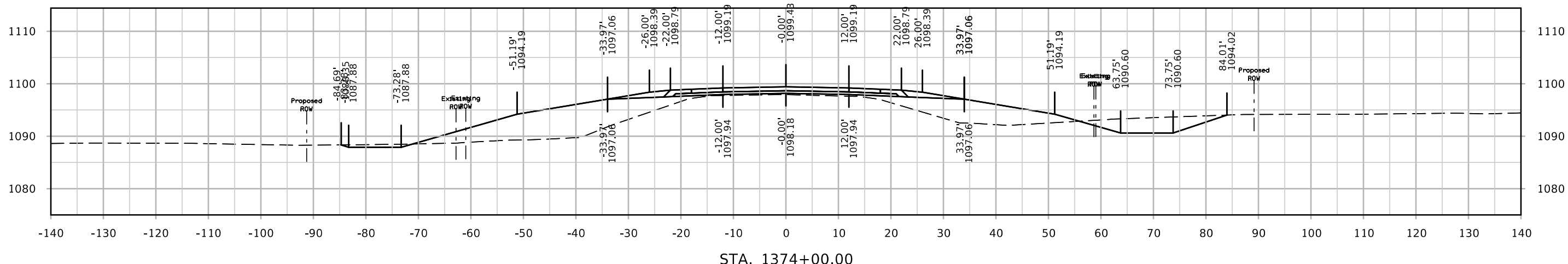
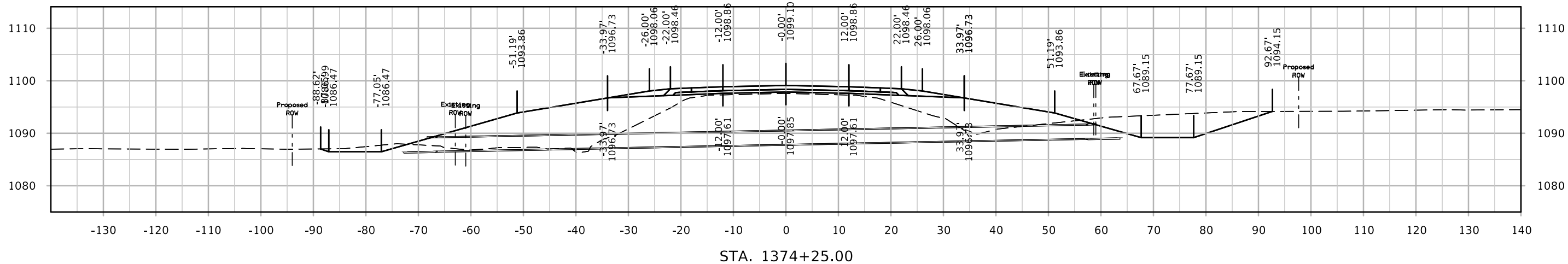
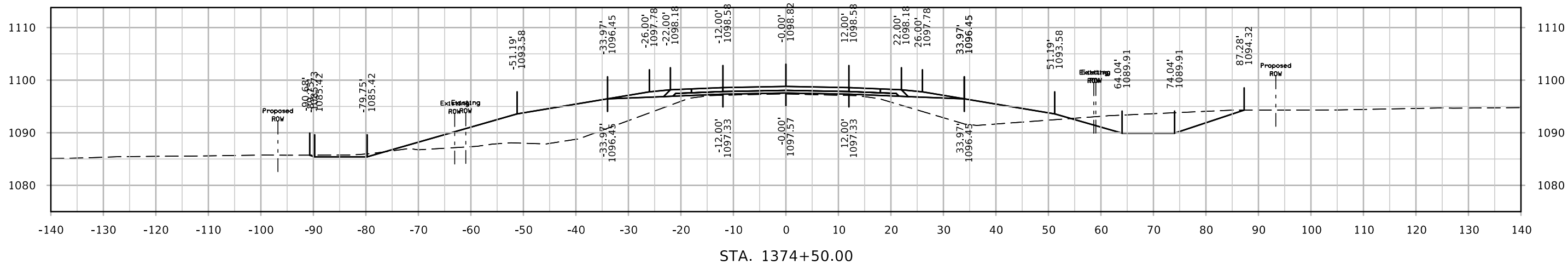


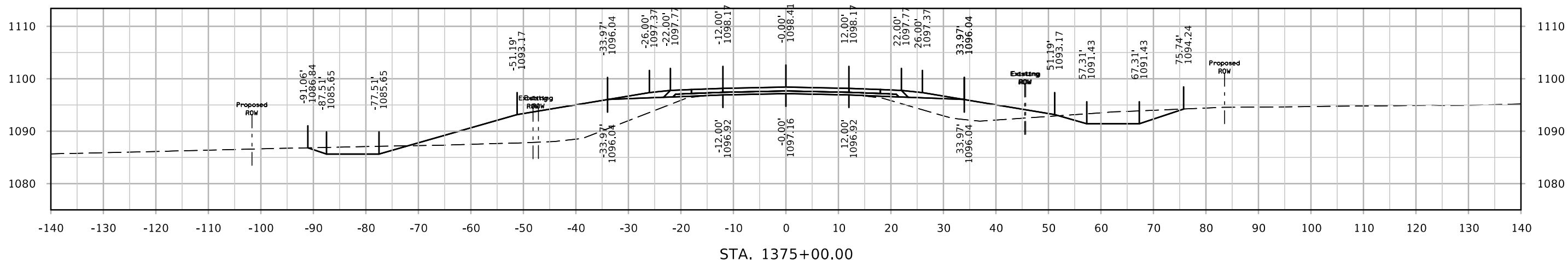
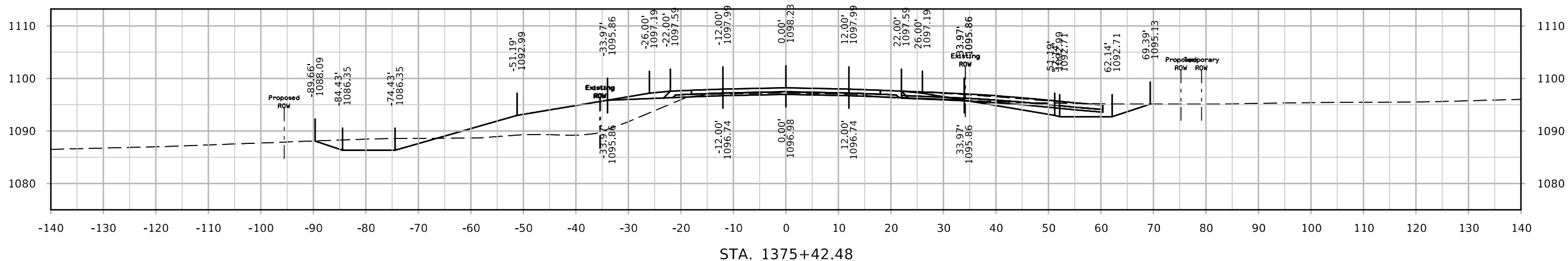
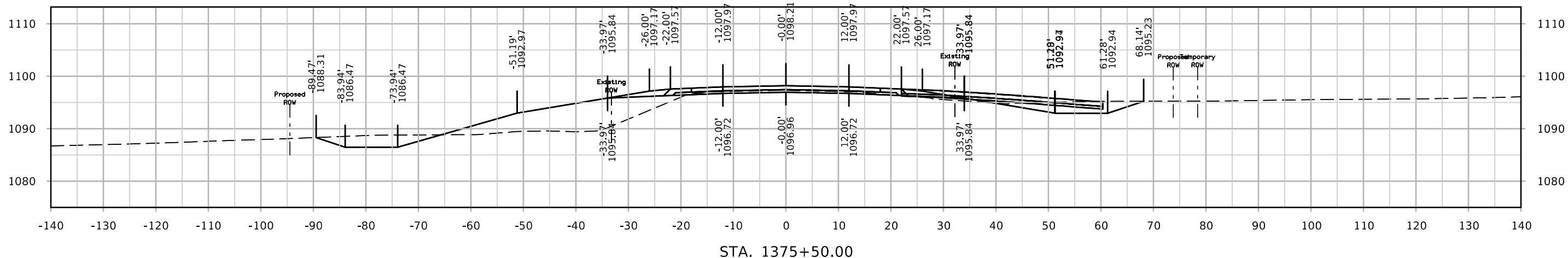




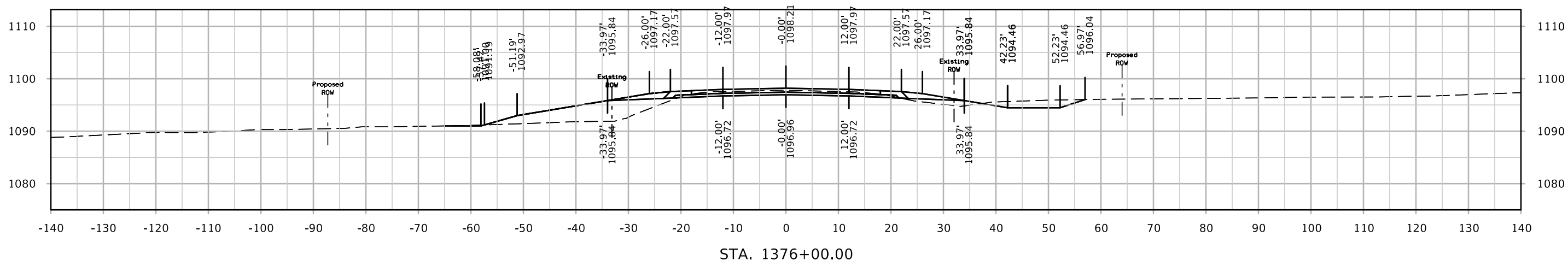
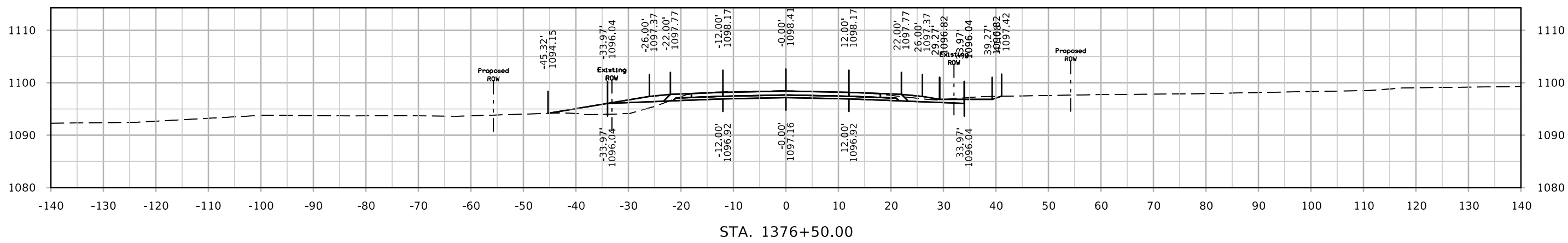
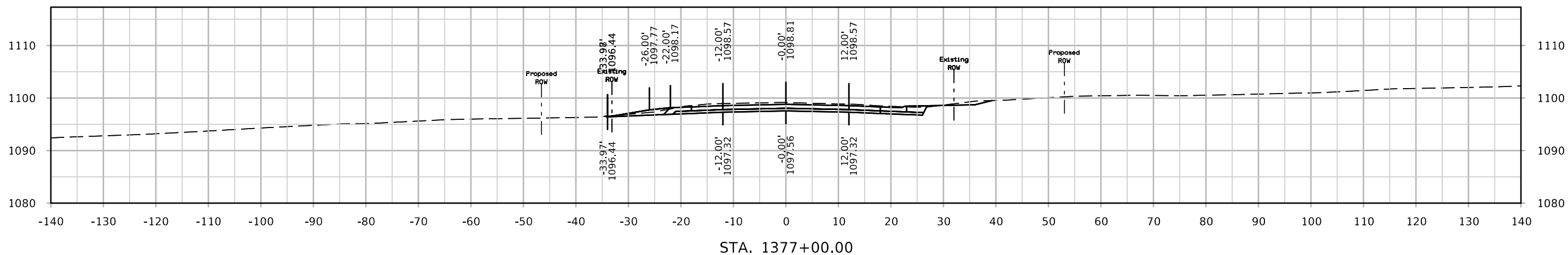


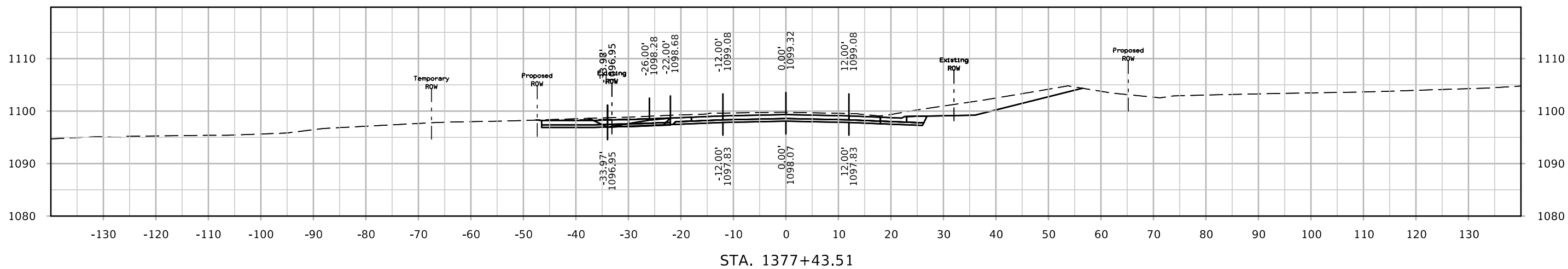
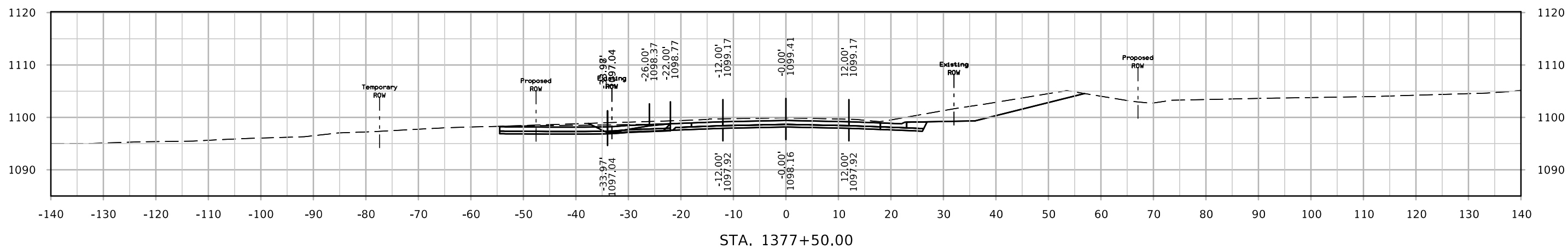
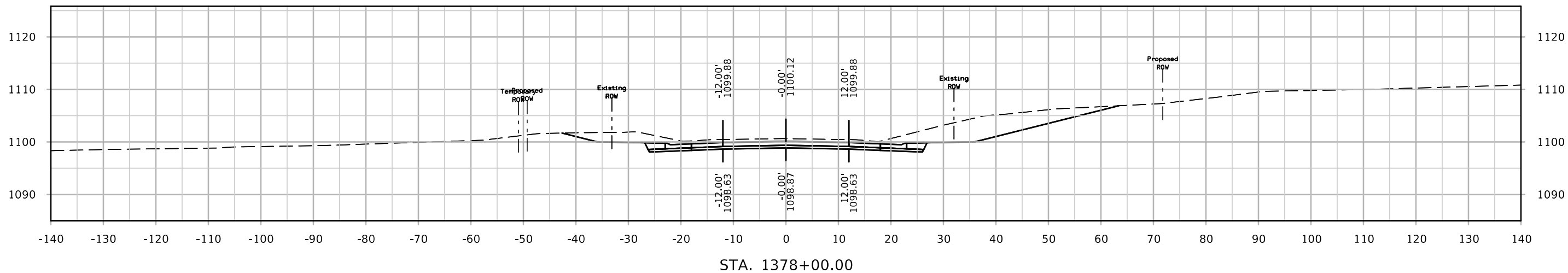


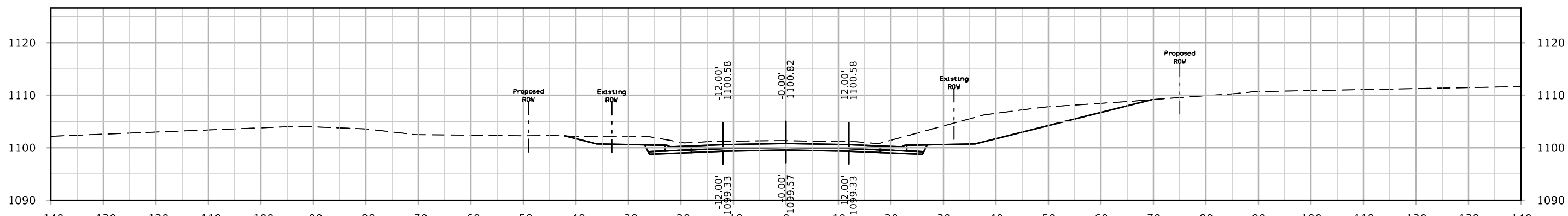
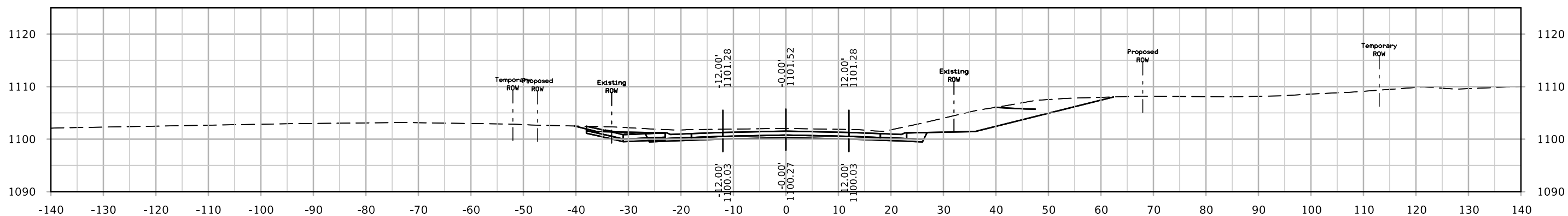
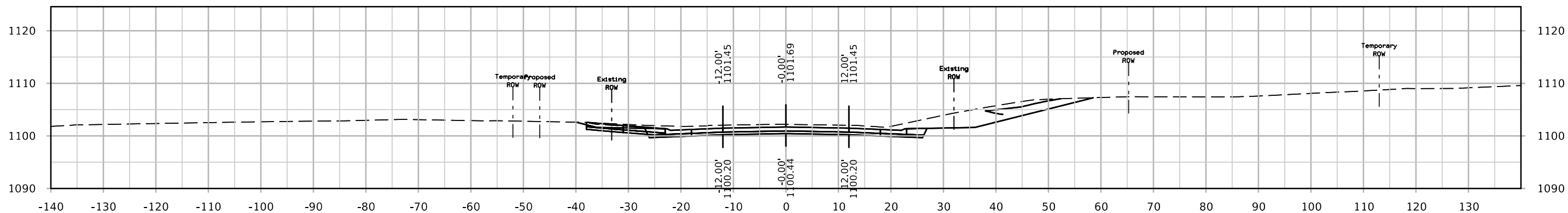


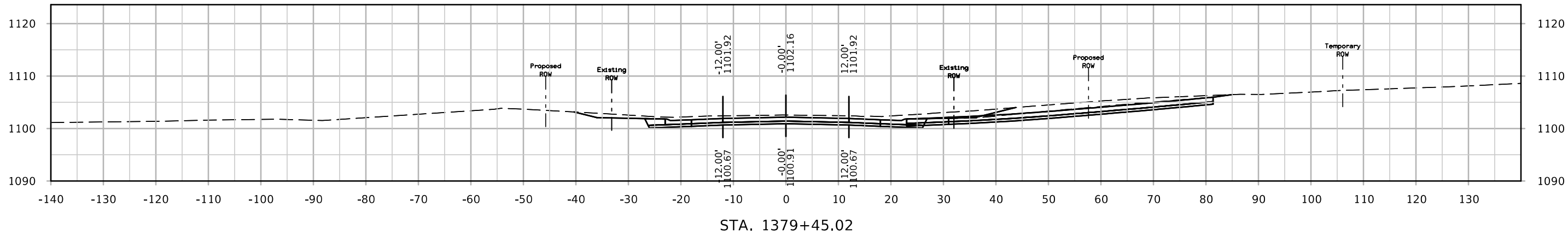
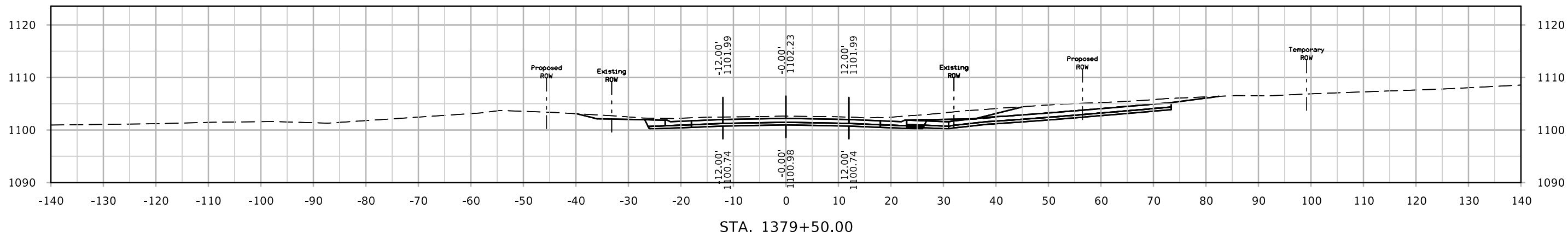
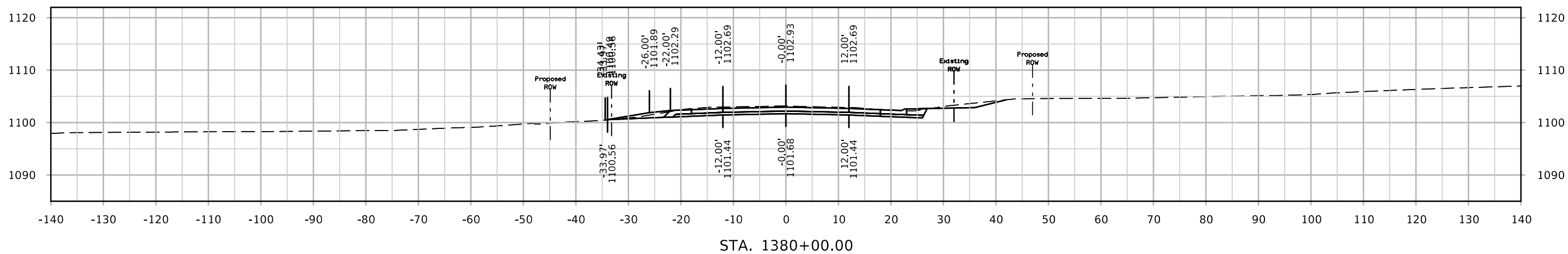




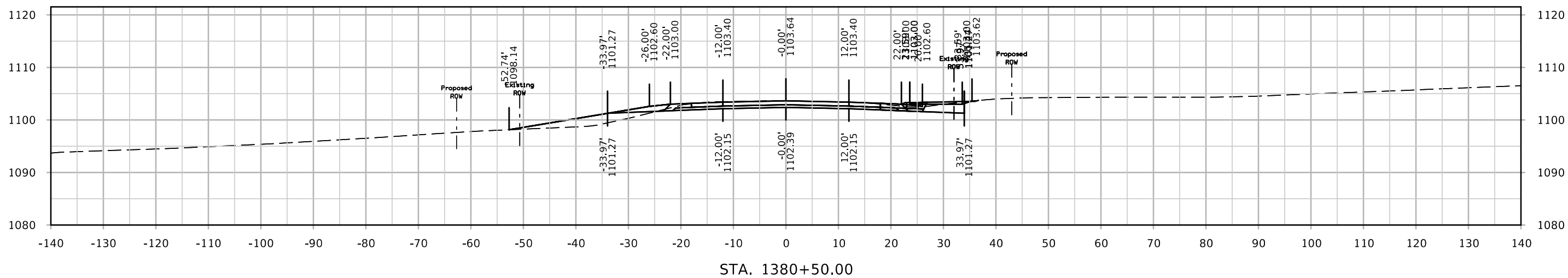
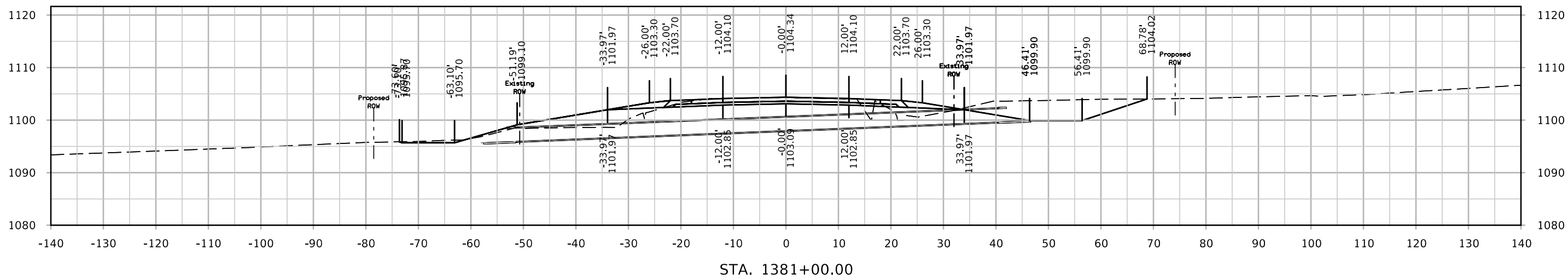
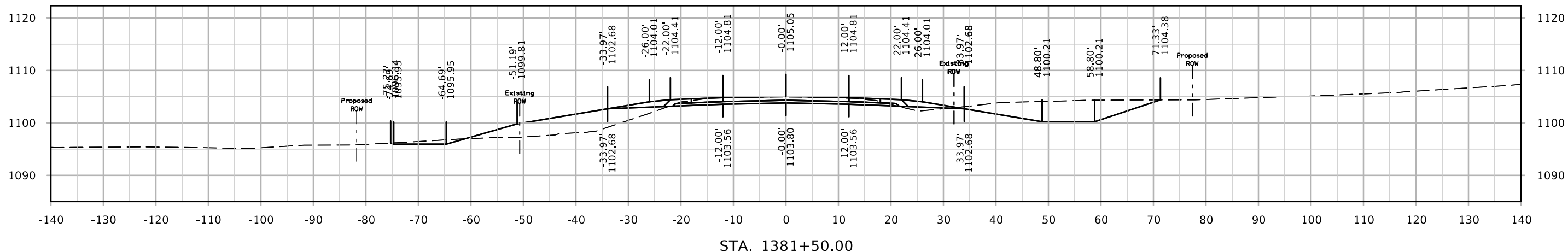


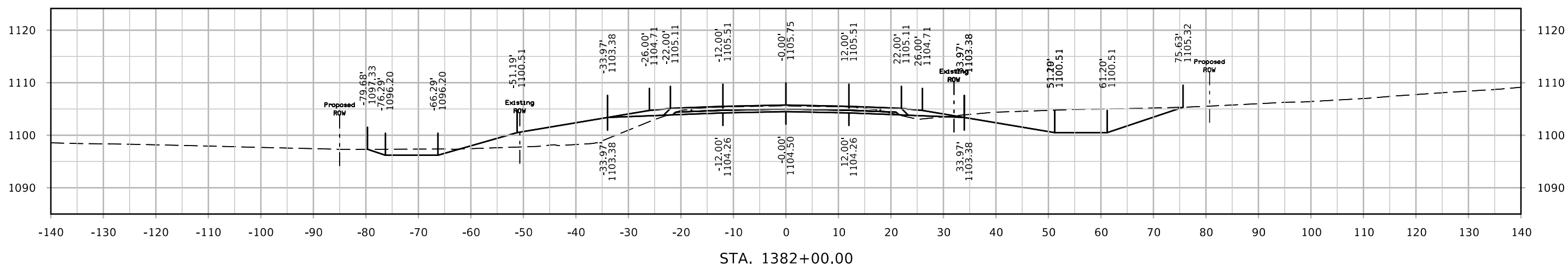
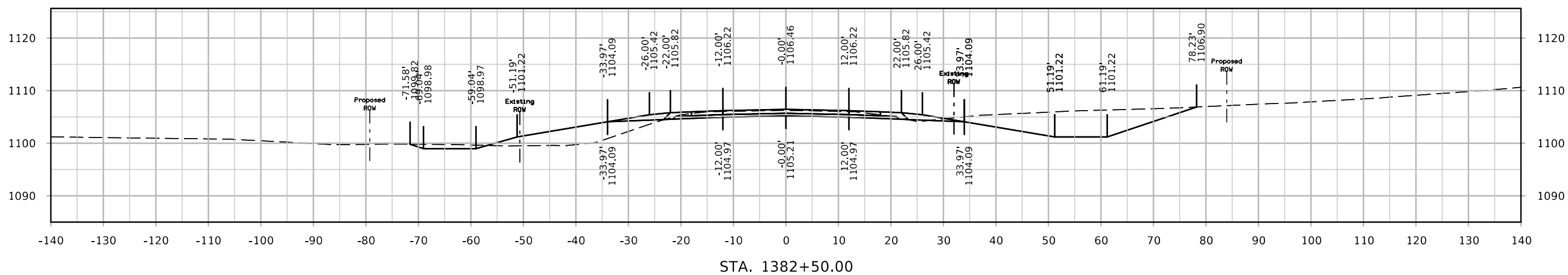
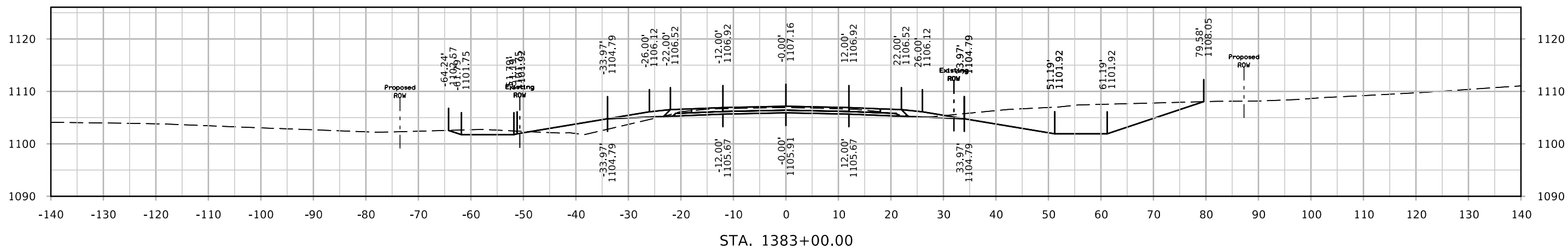


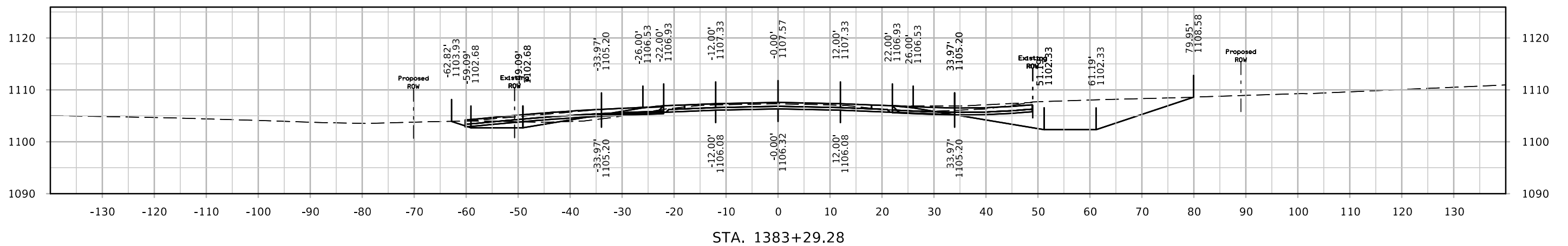
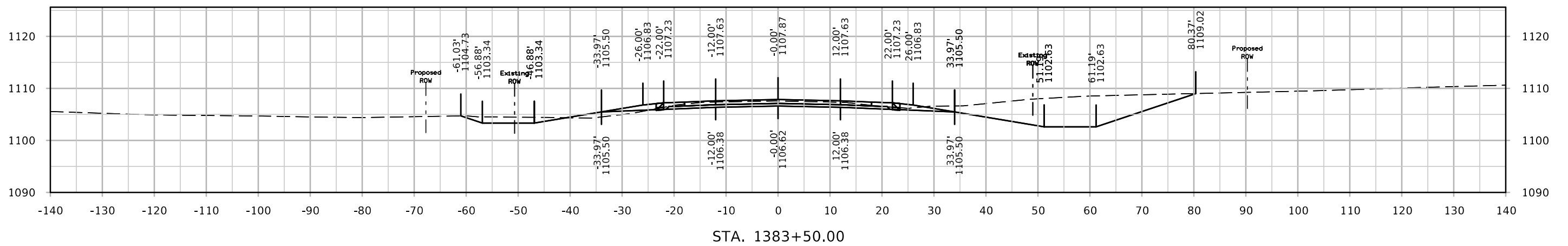
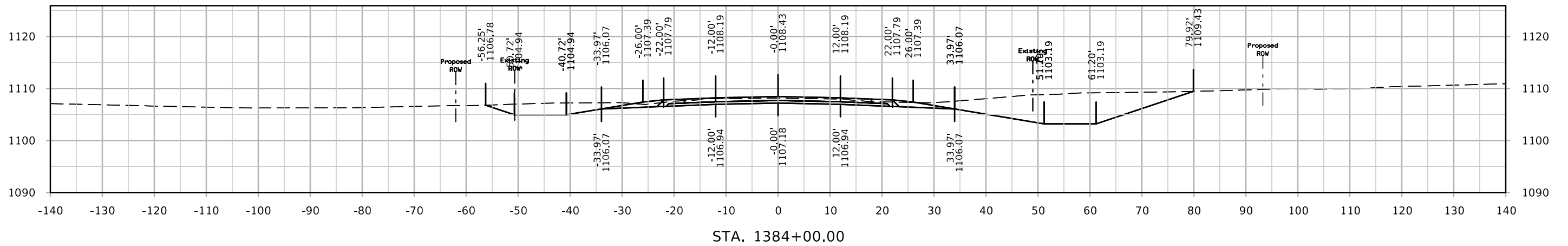


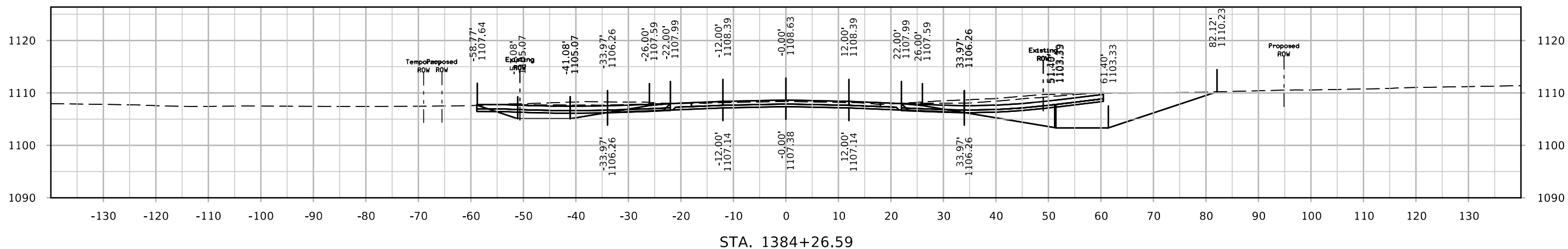
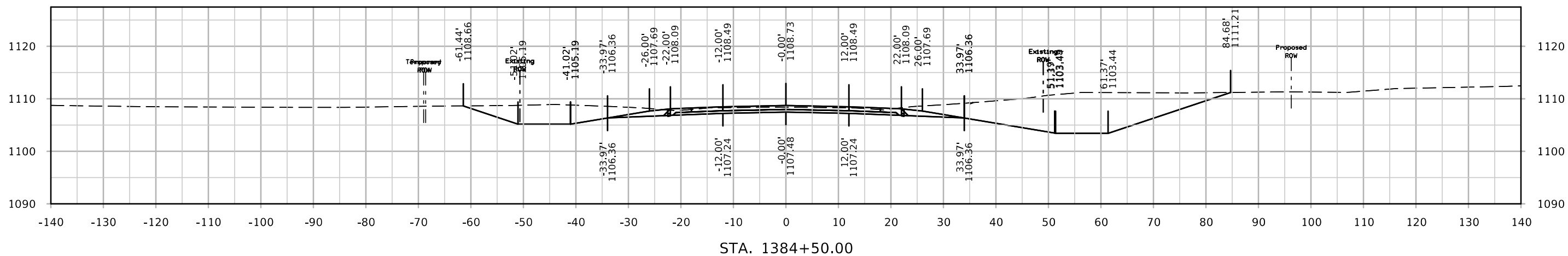
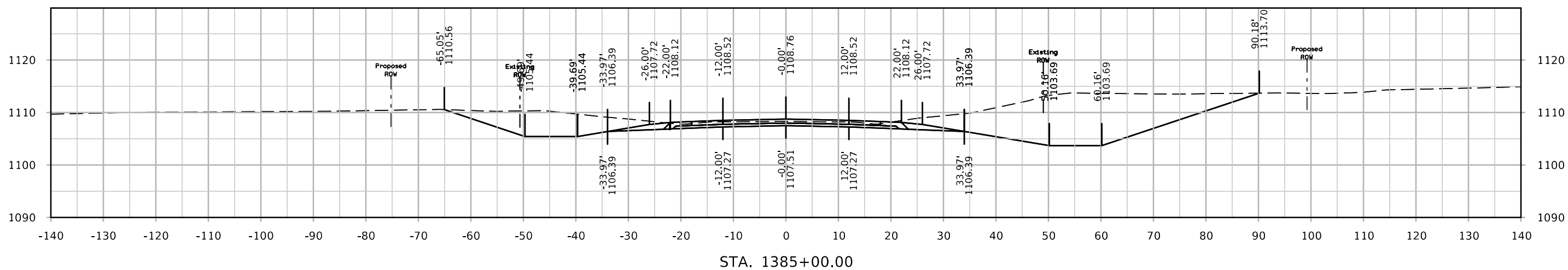


# IA 13

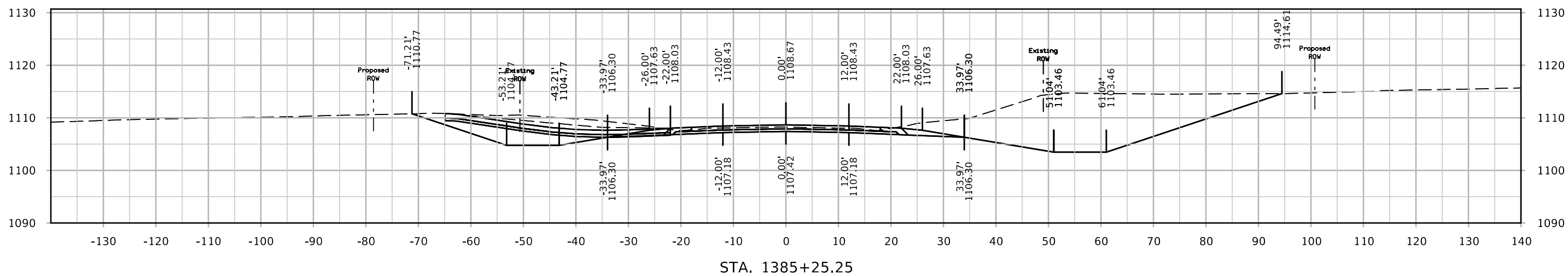
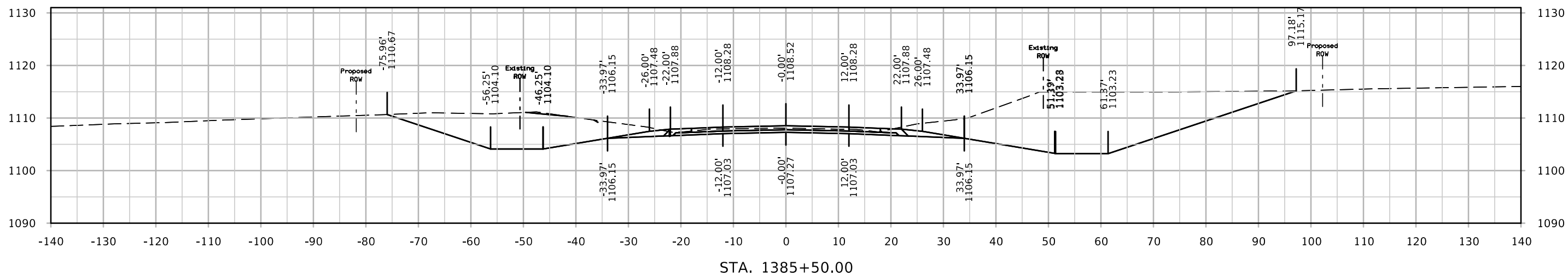
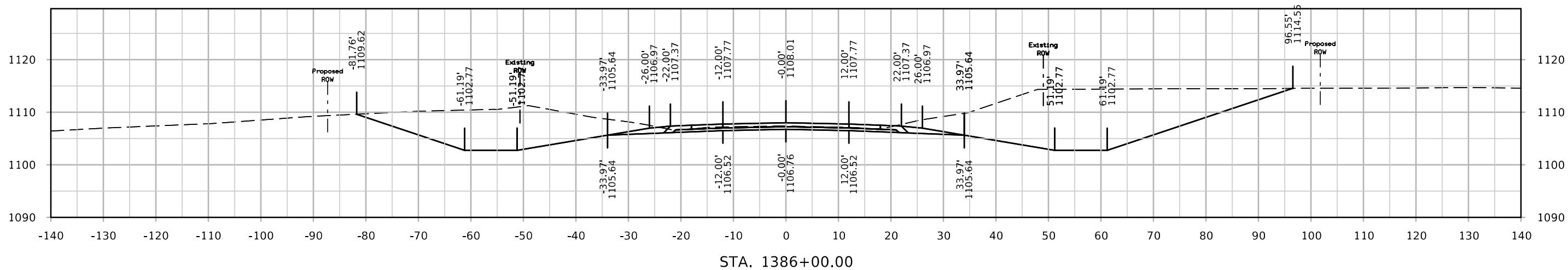


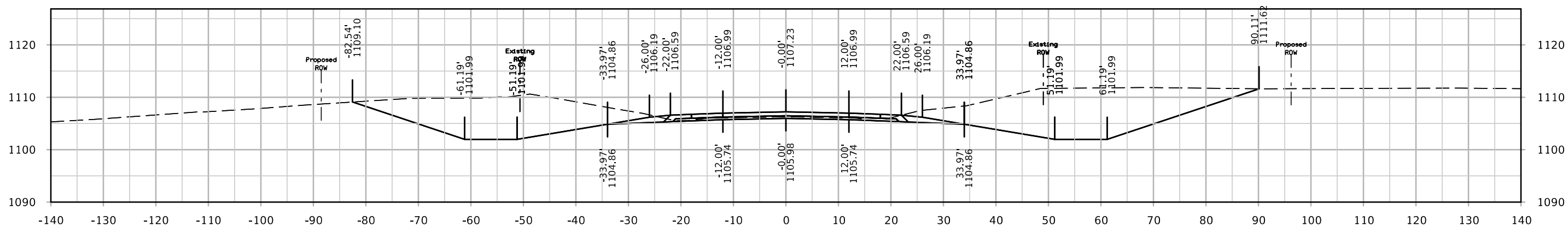
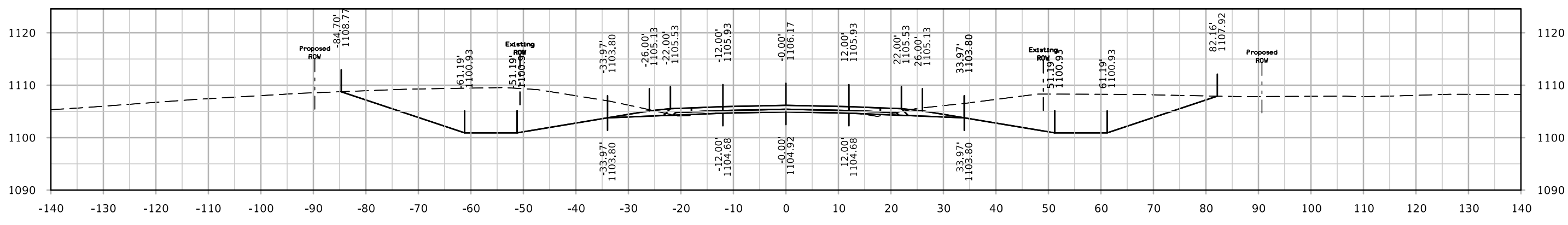
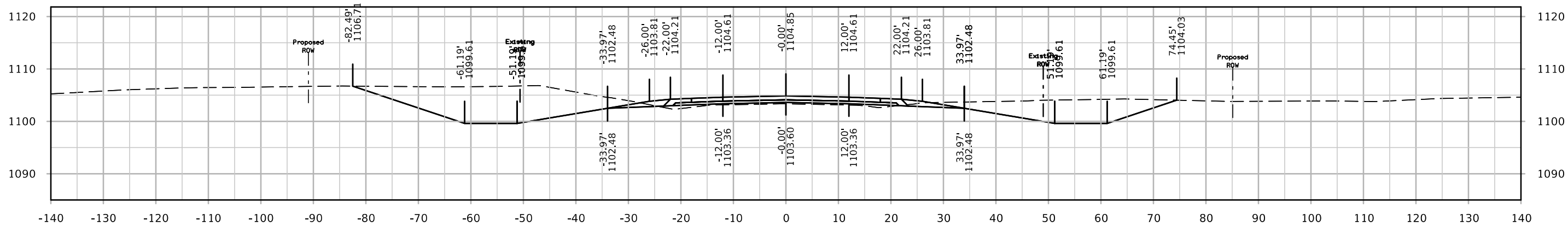


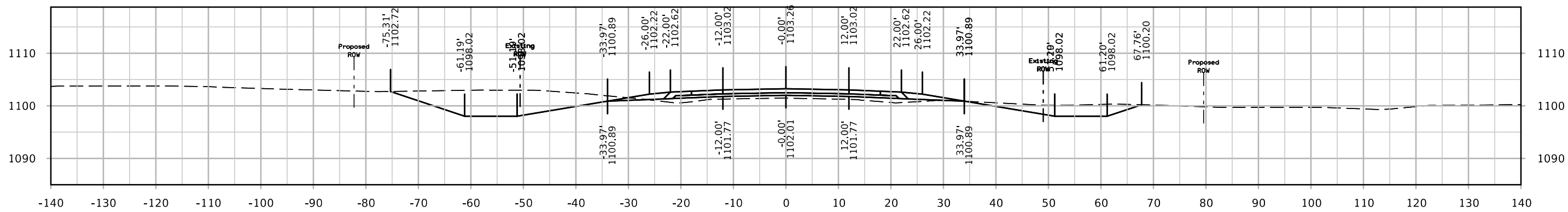
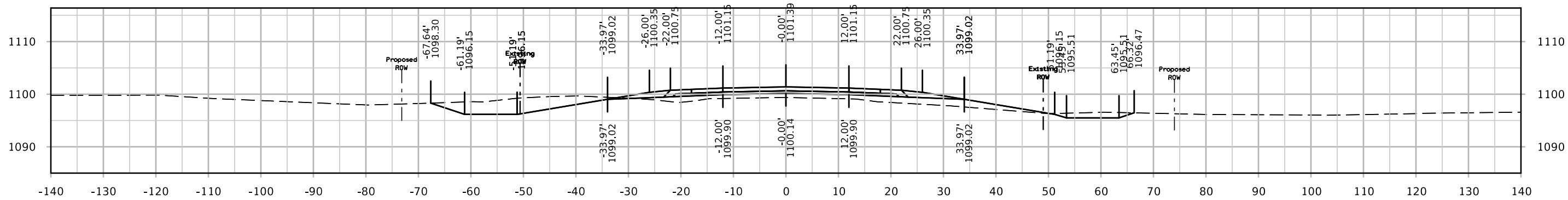
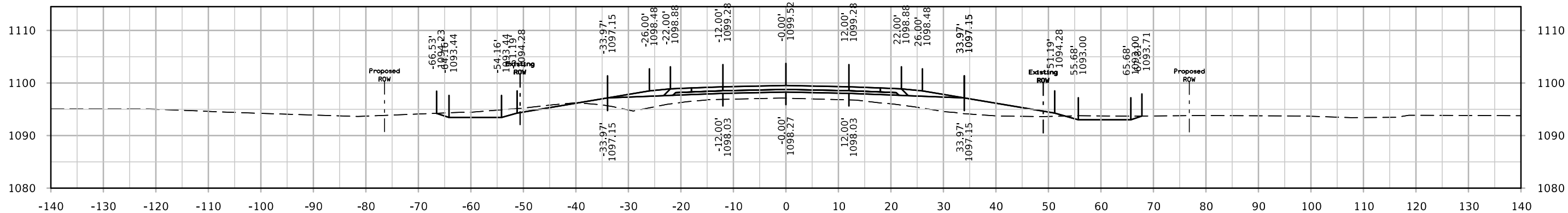


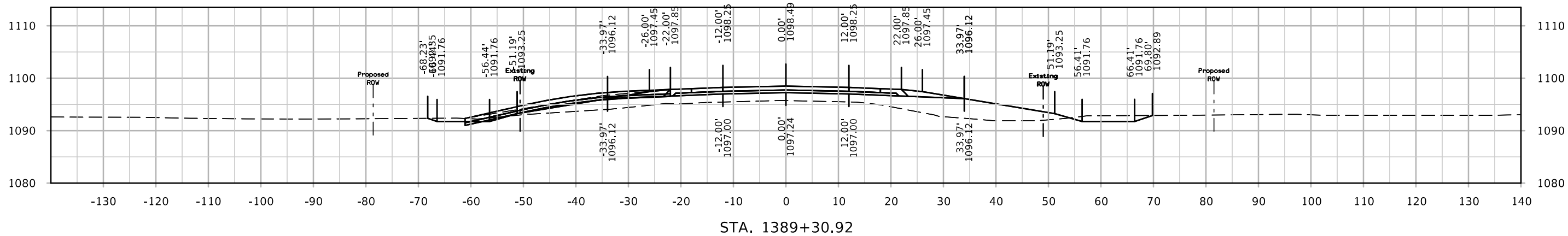
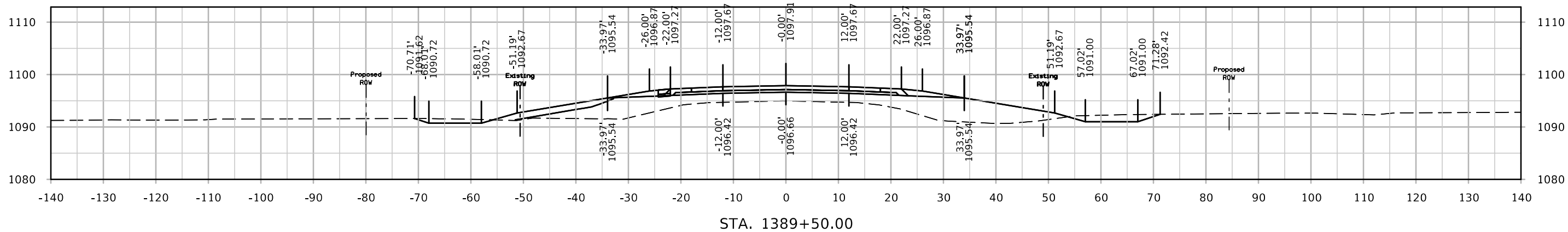
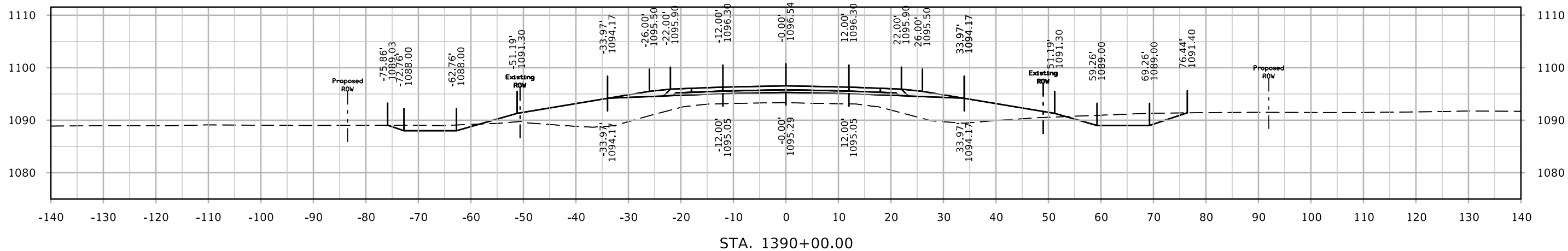


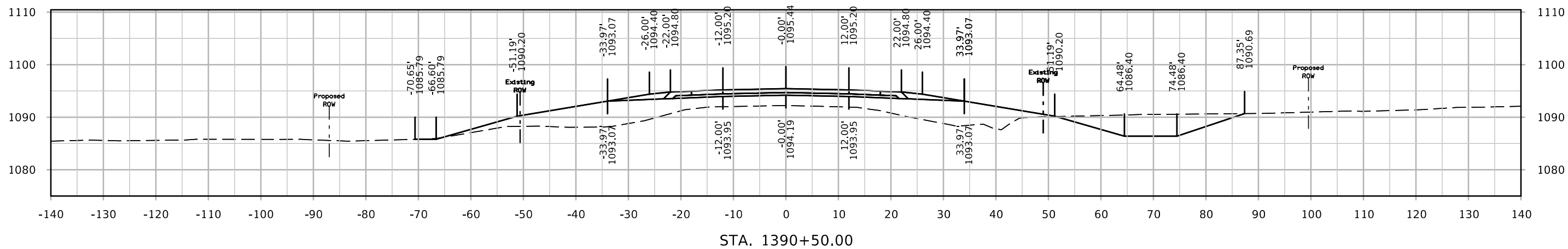
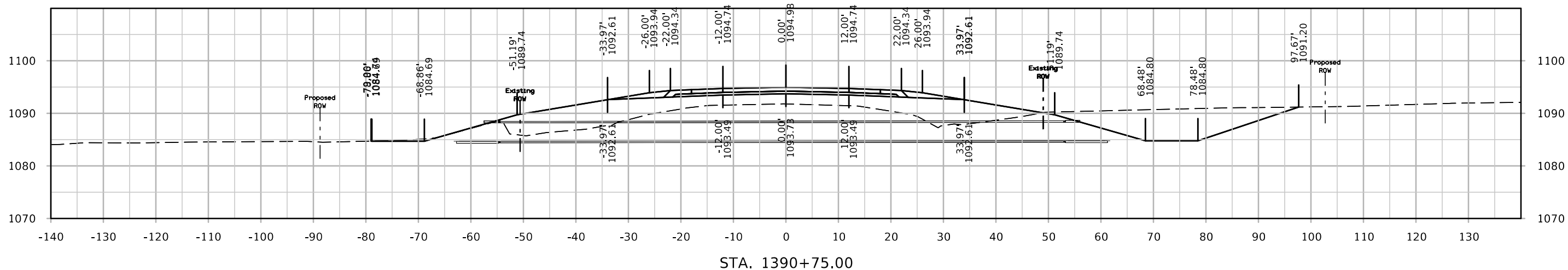
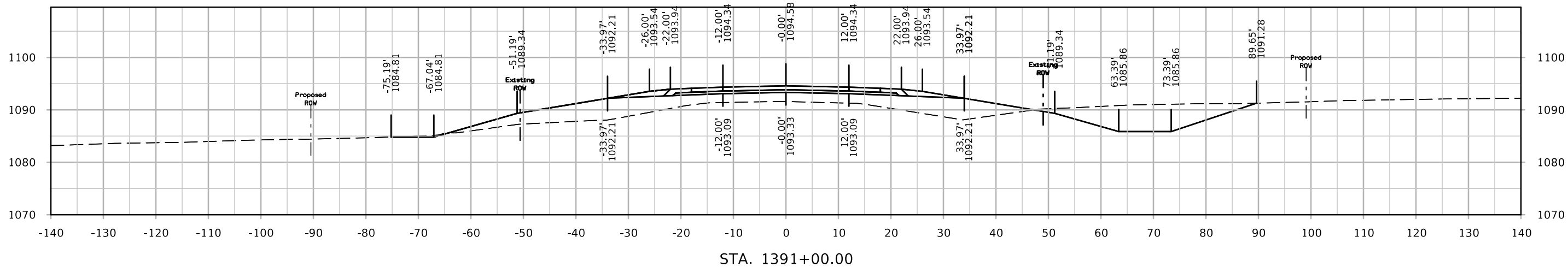


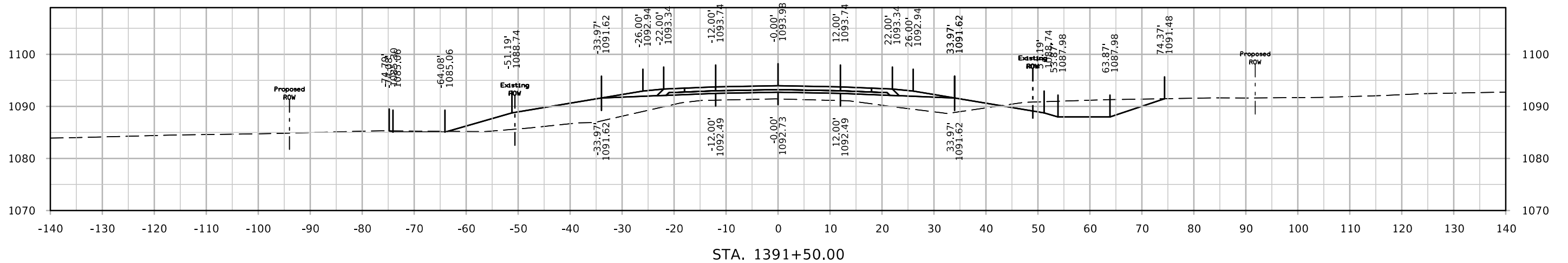
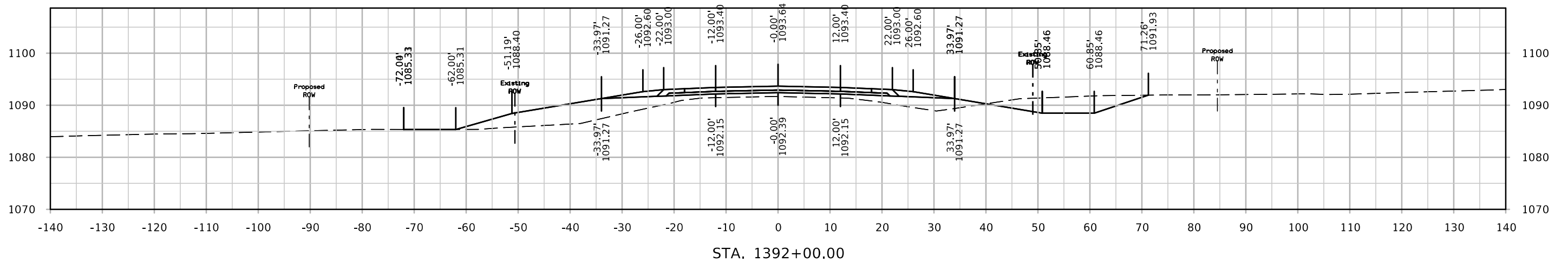
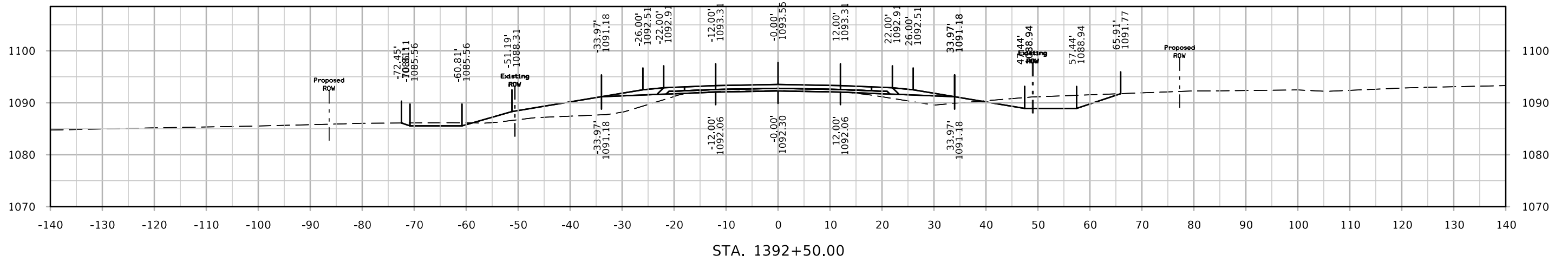


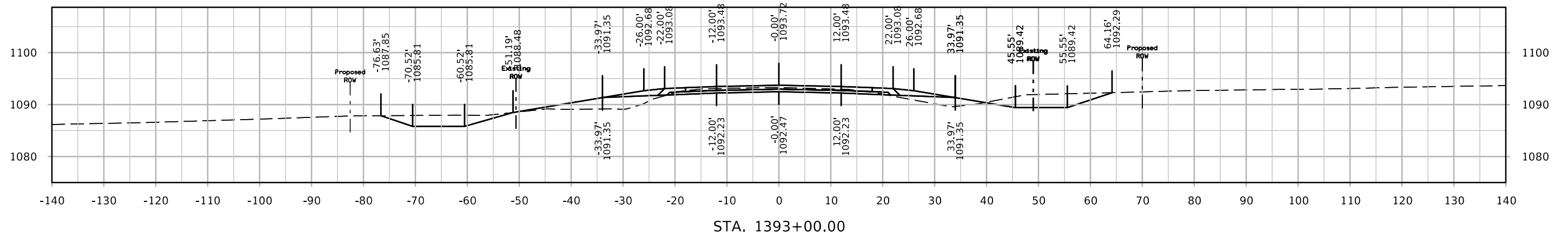
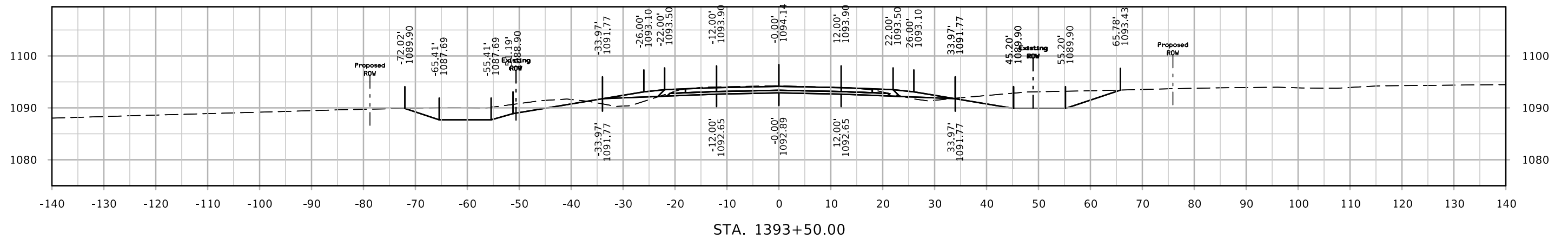
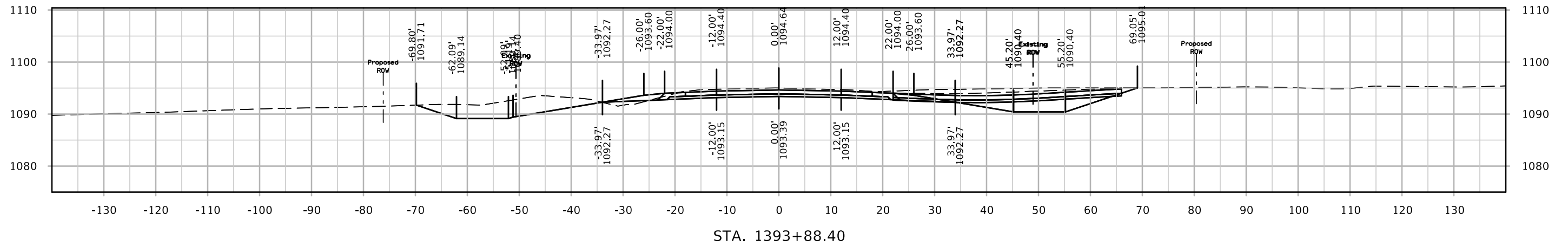


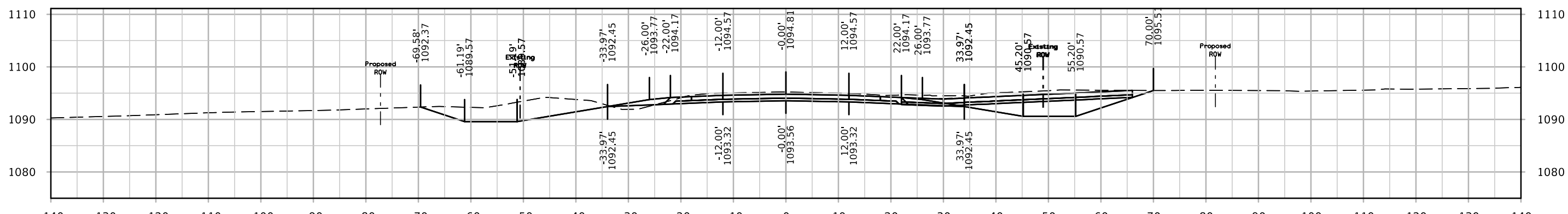
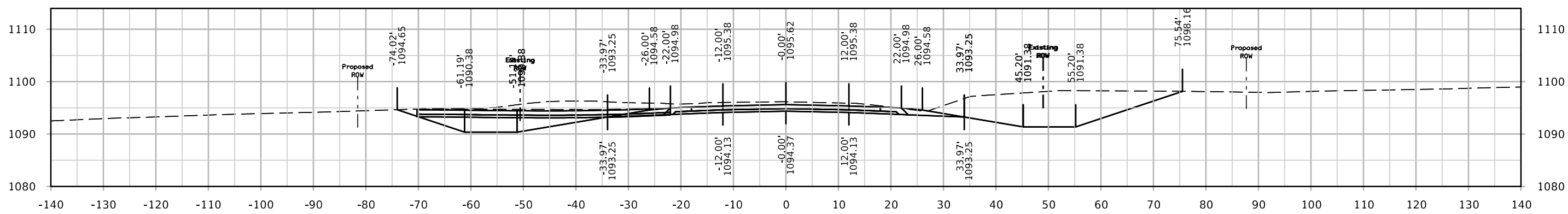
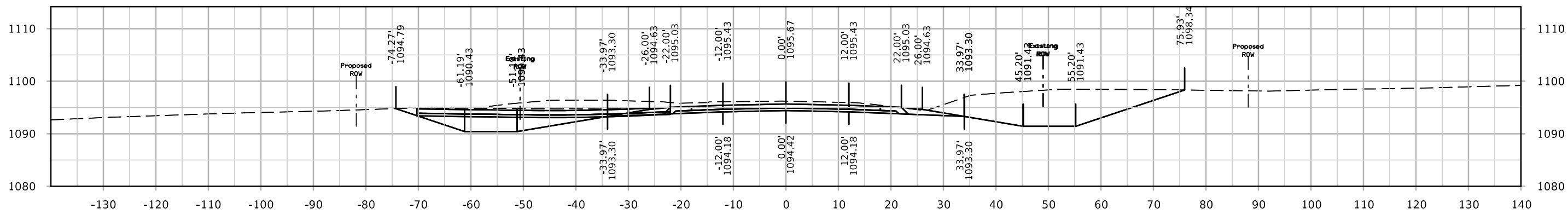




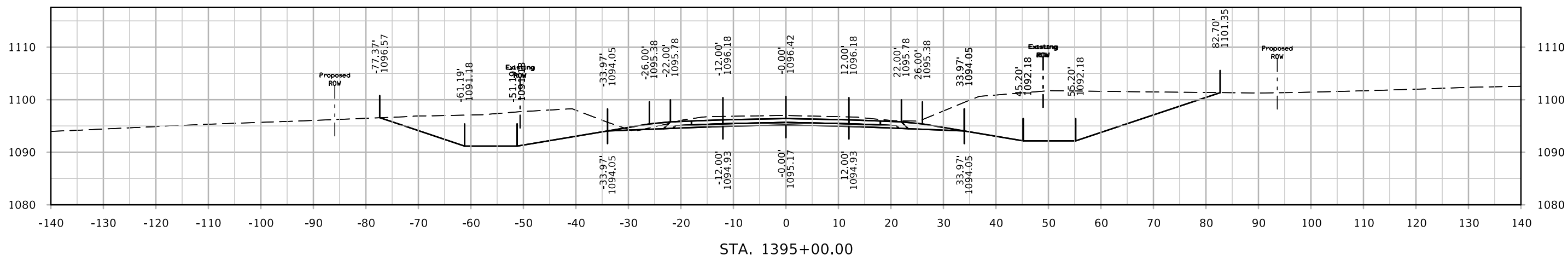
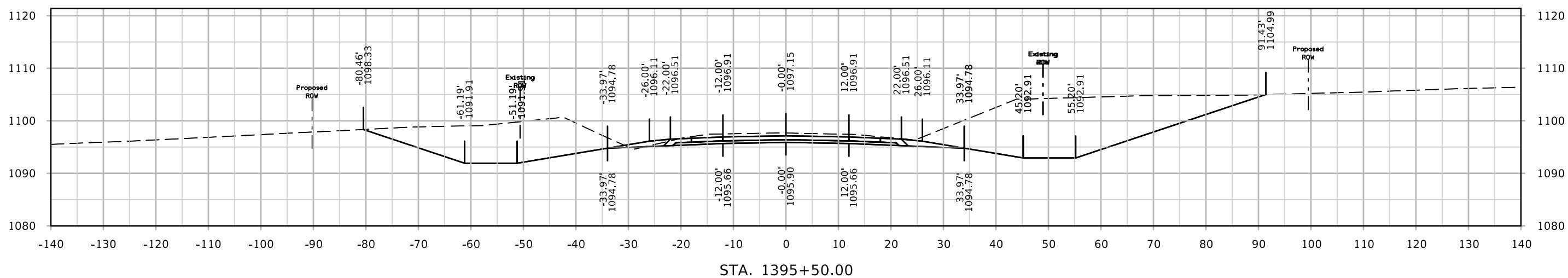
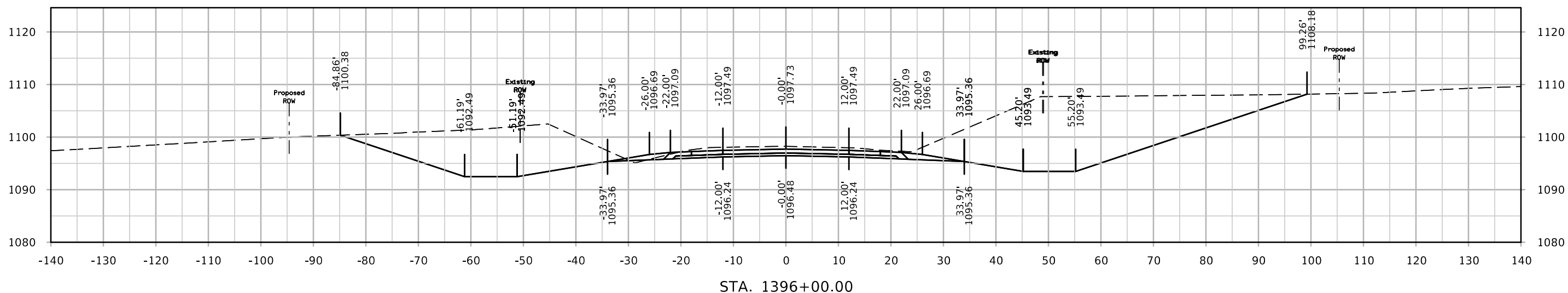


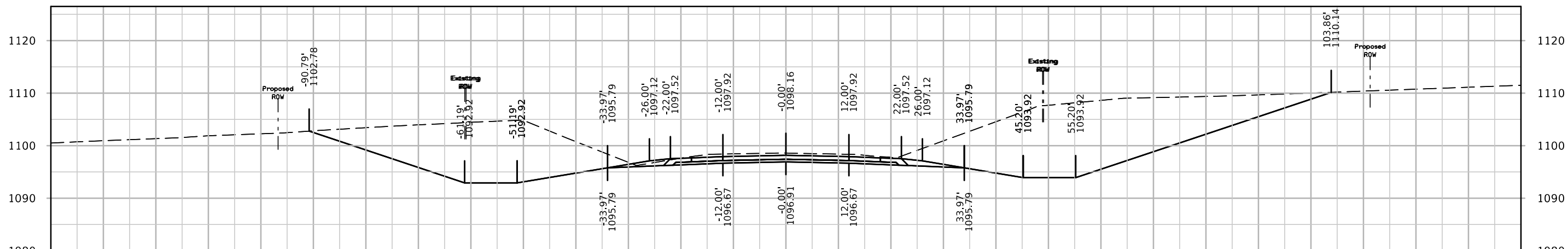
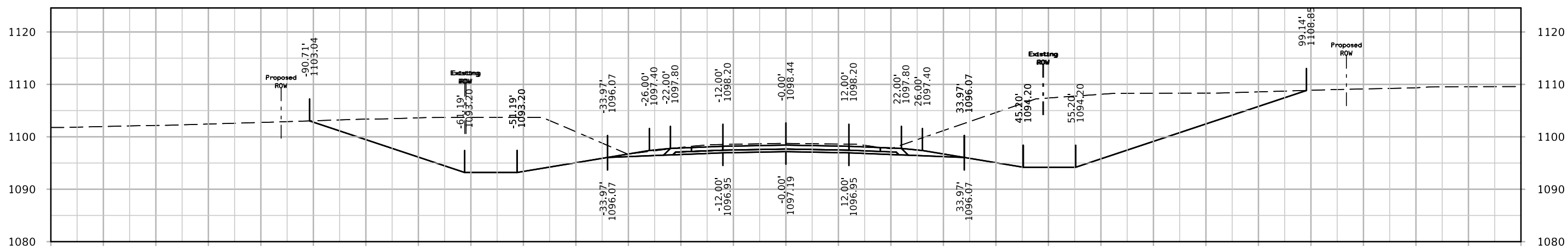
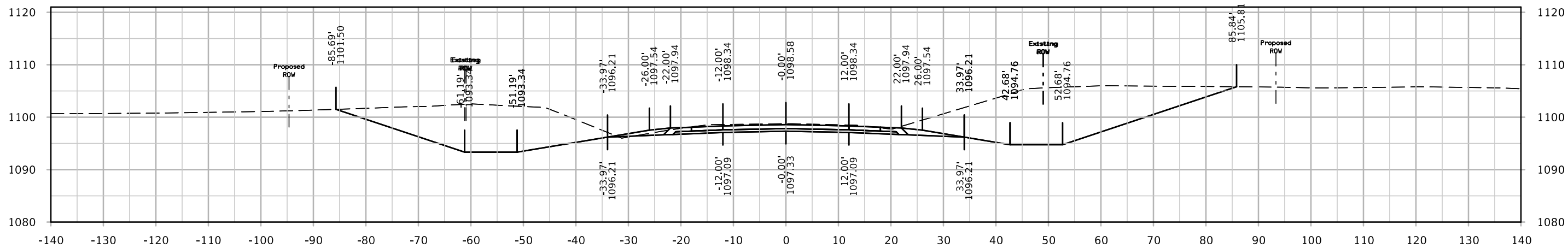


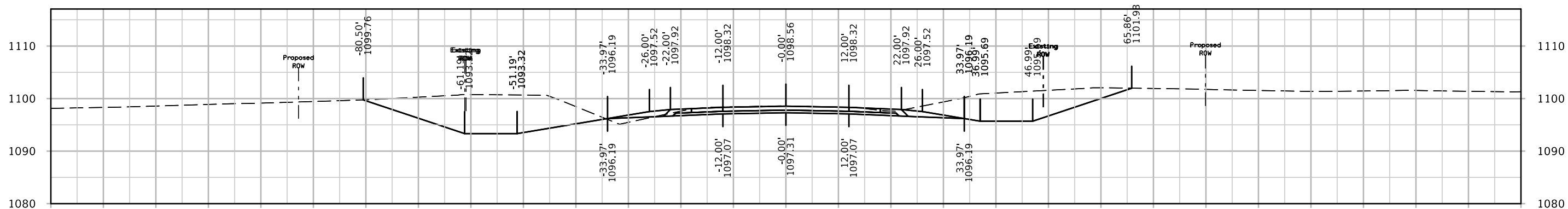
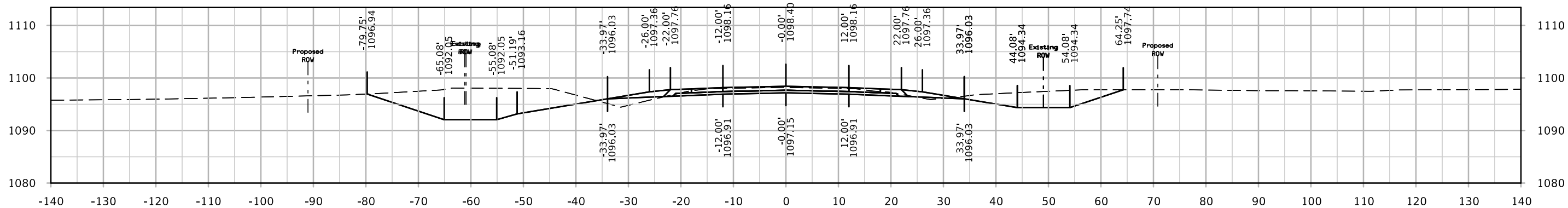
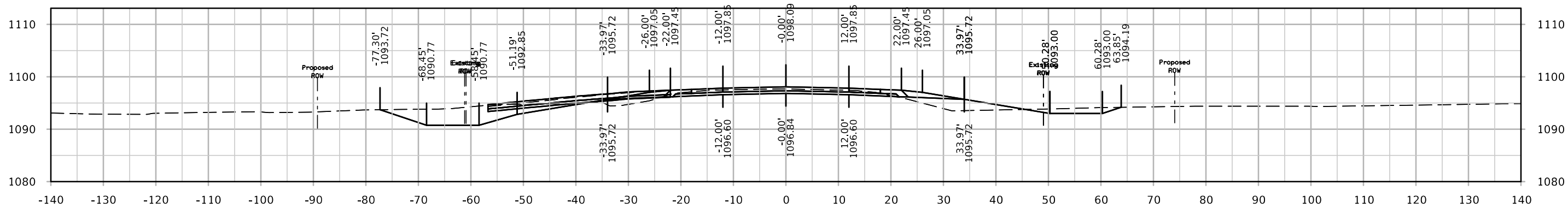


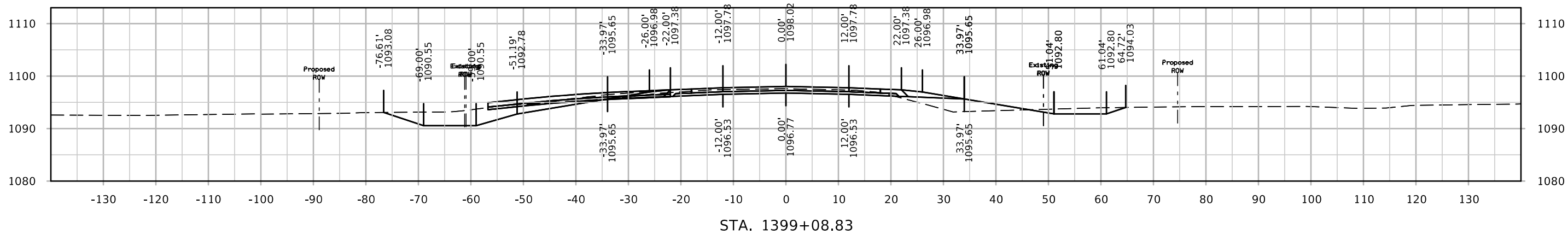
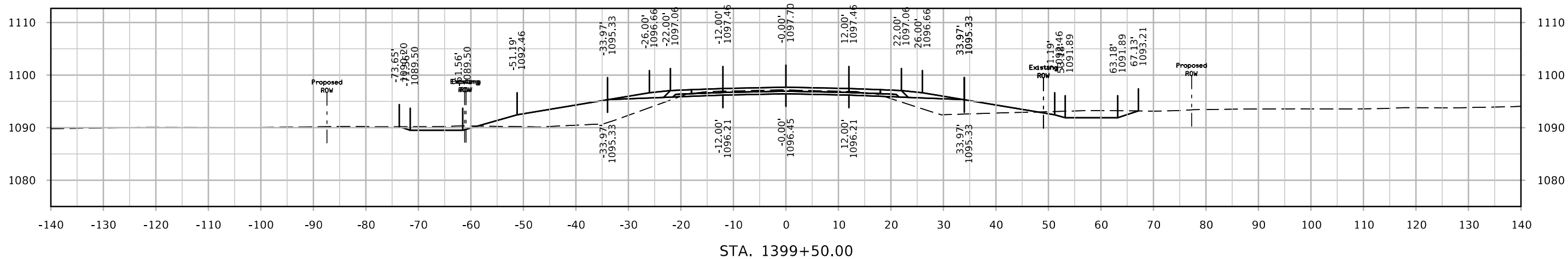
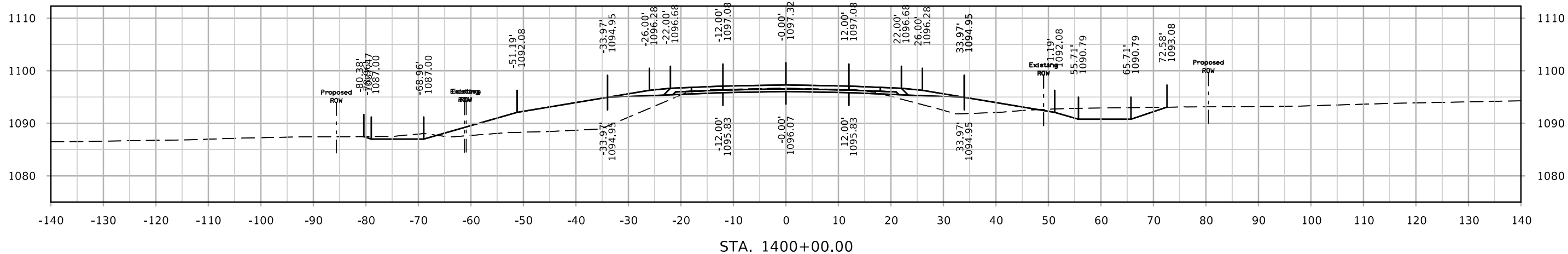




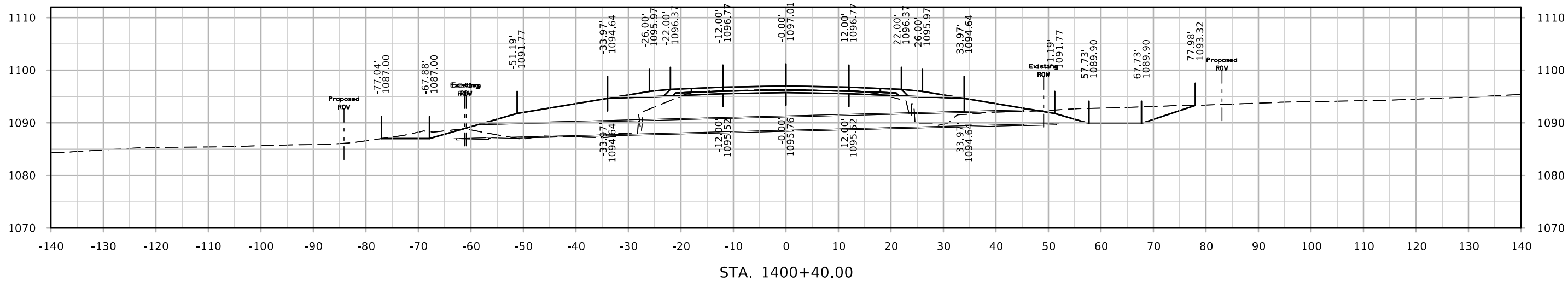
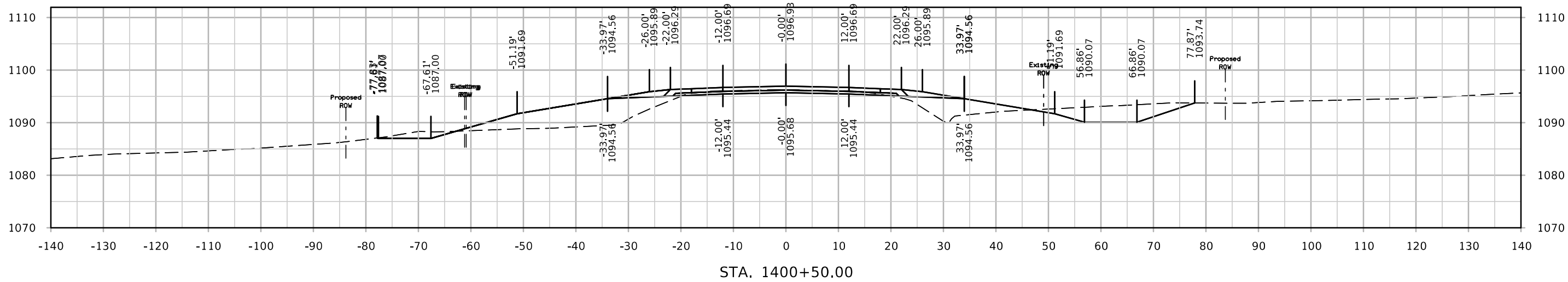
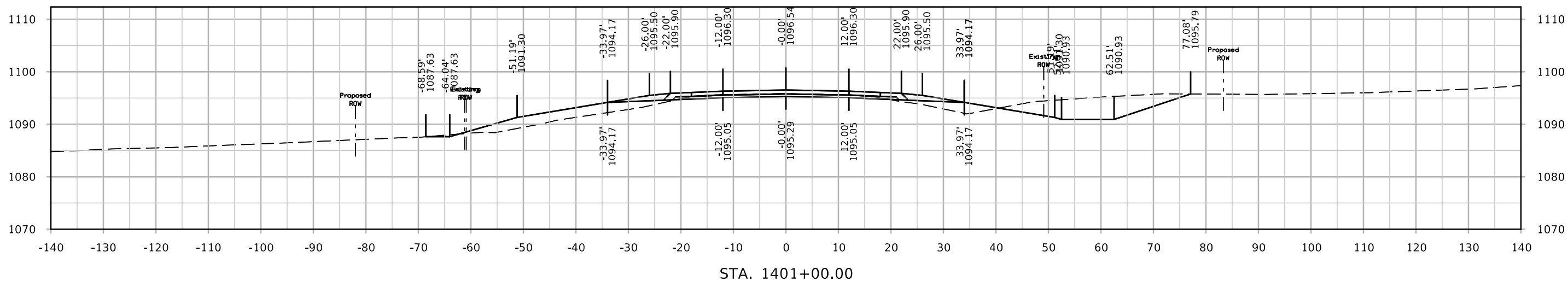


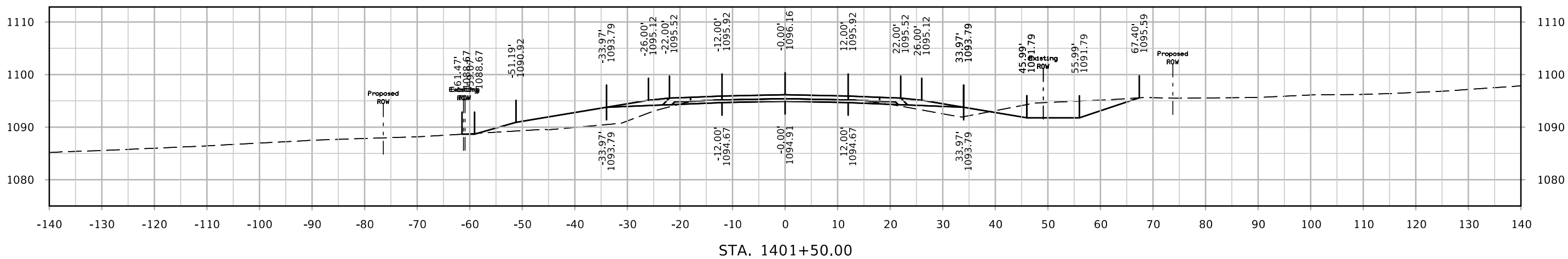
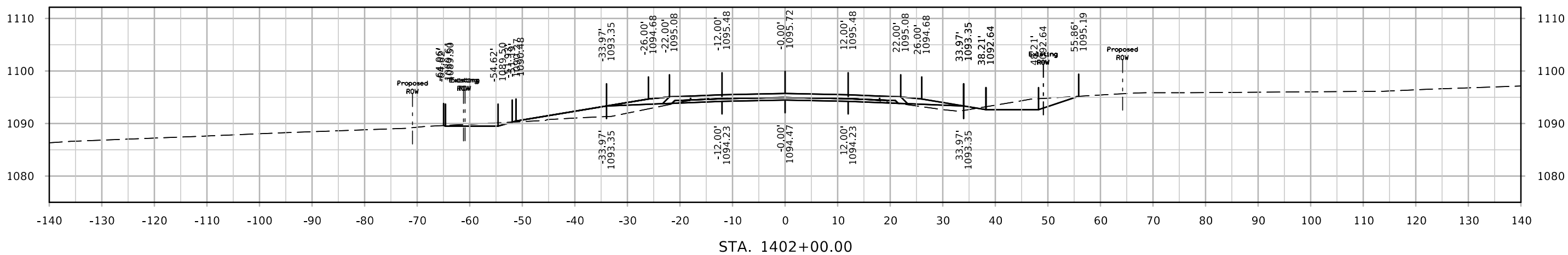
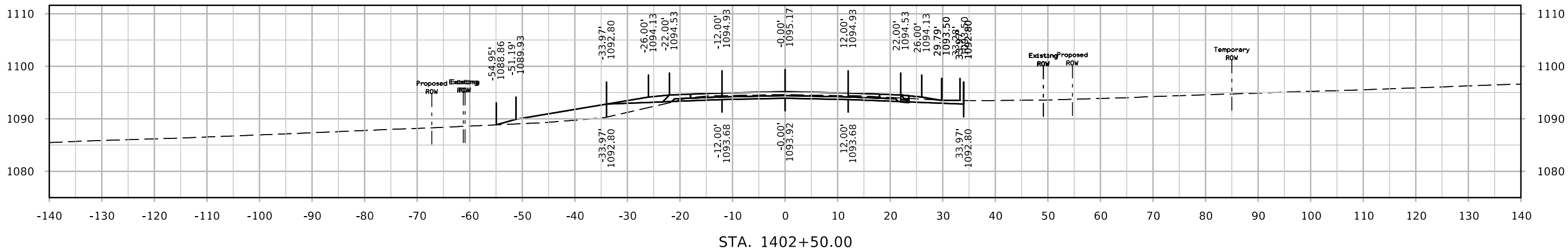




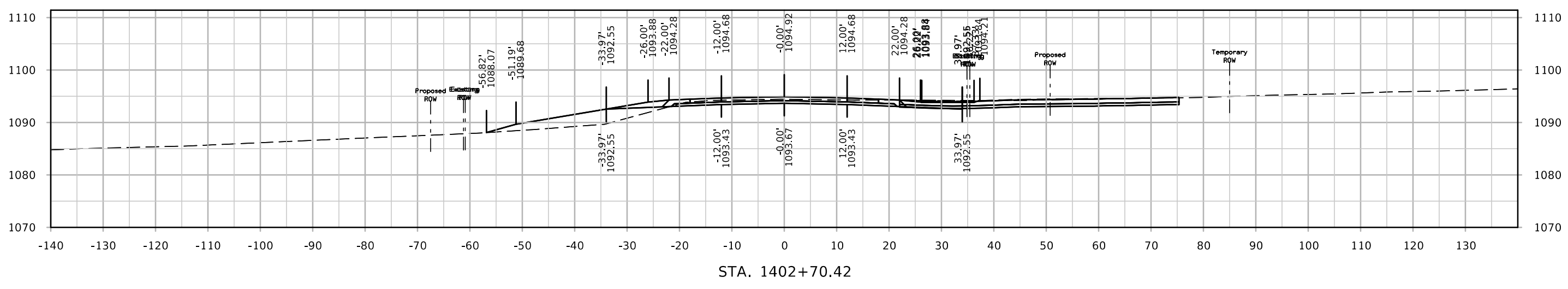
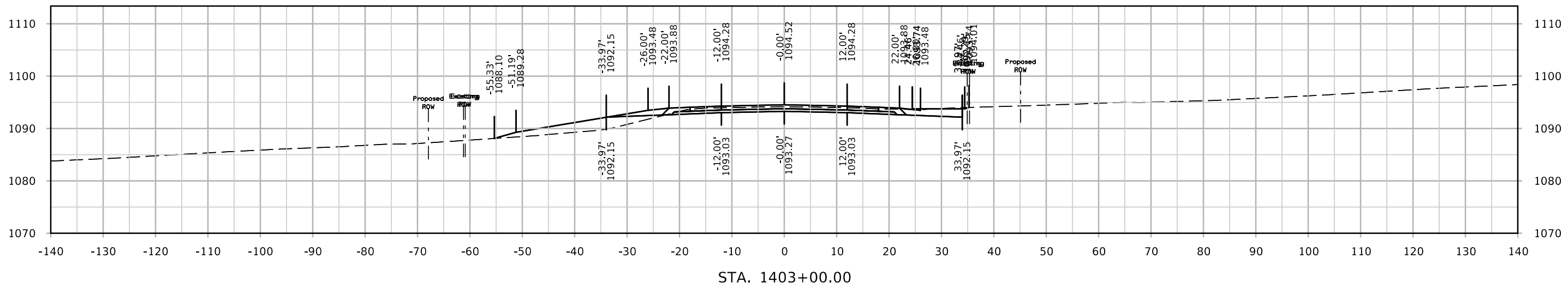
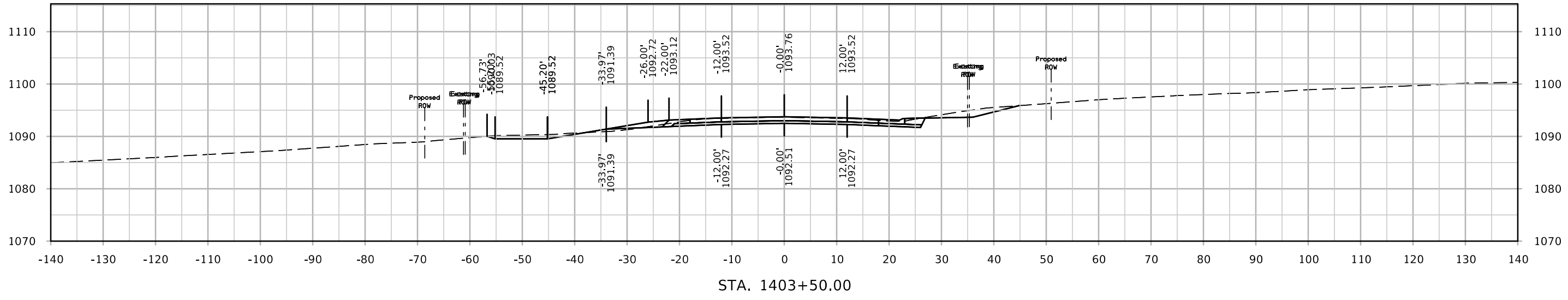


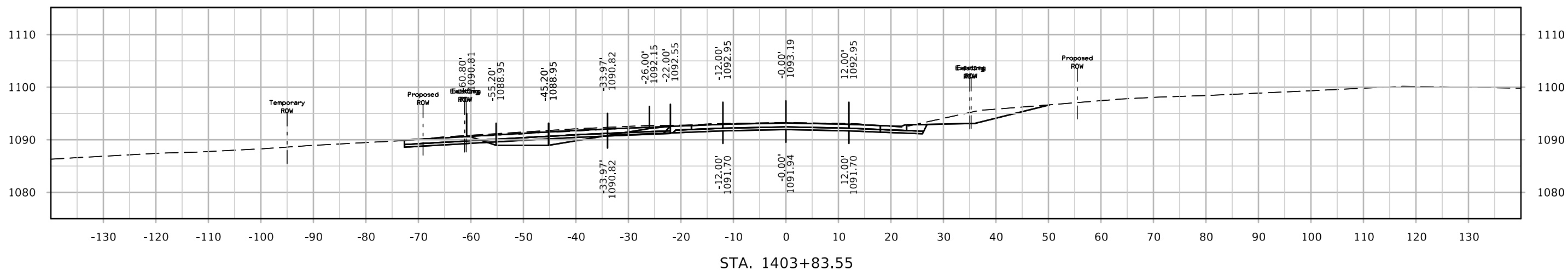
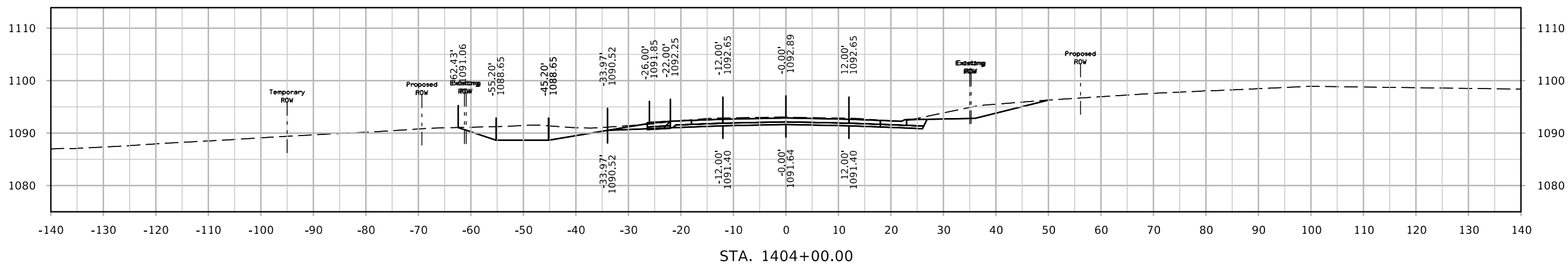
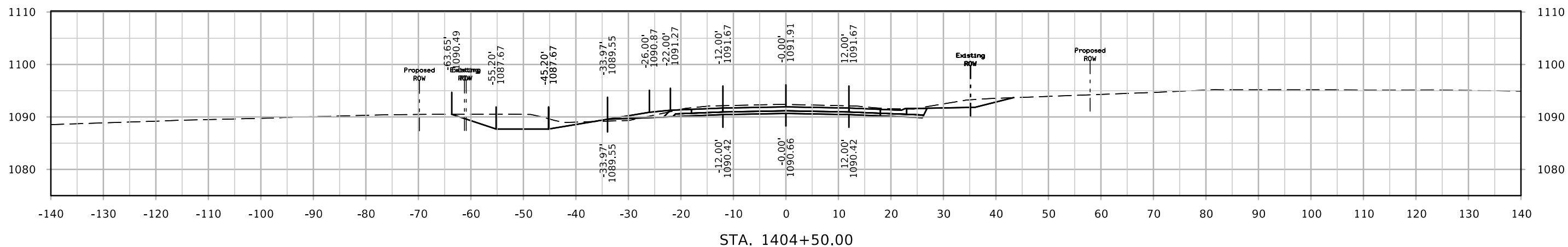
# IA 13



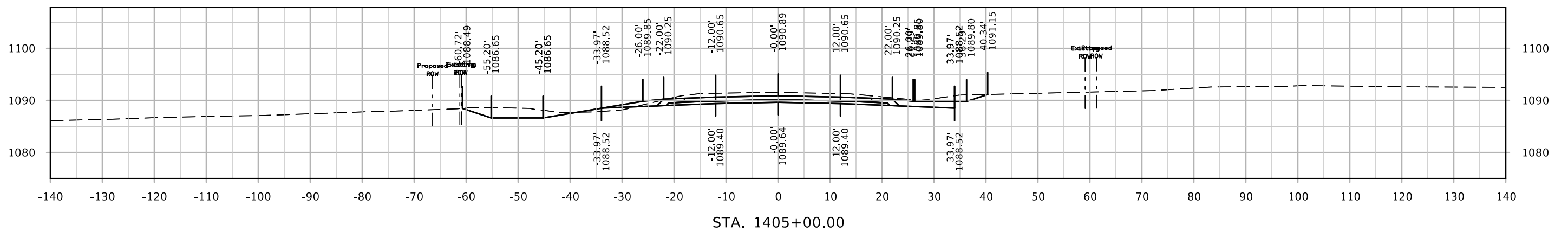
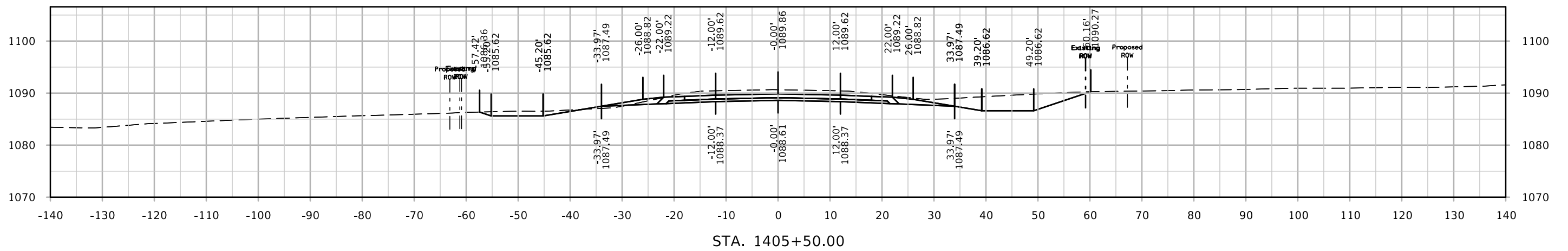
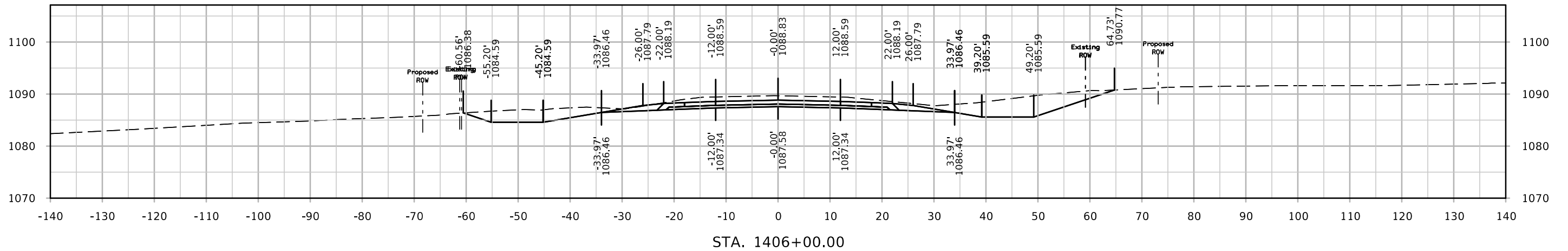


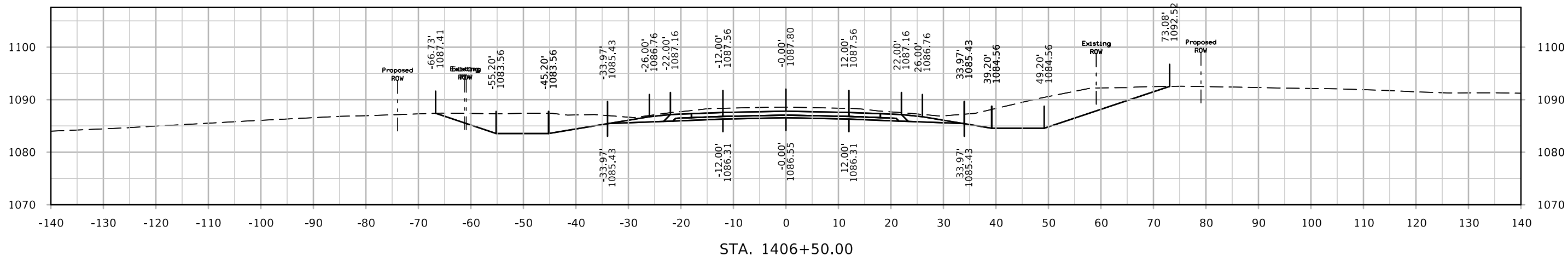
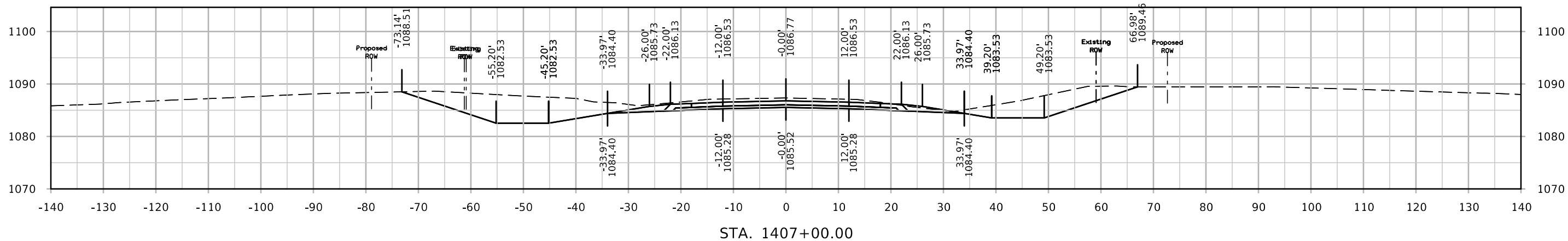
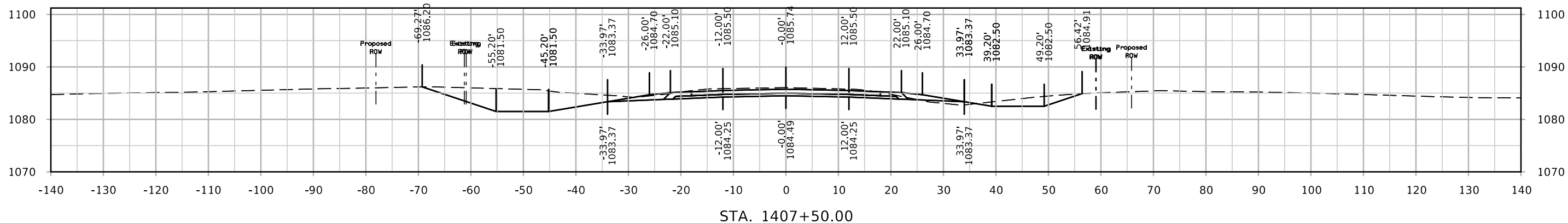
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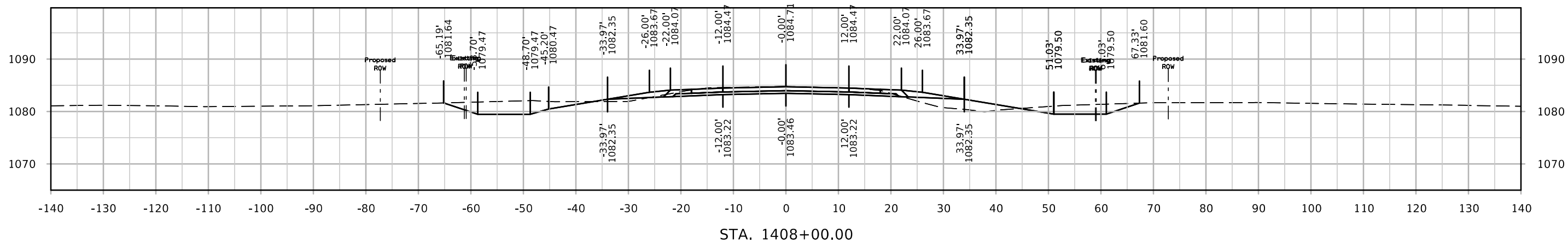
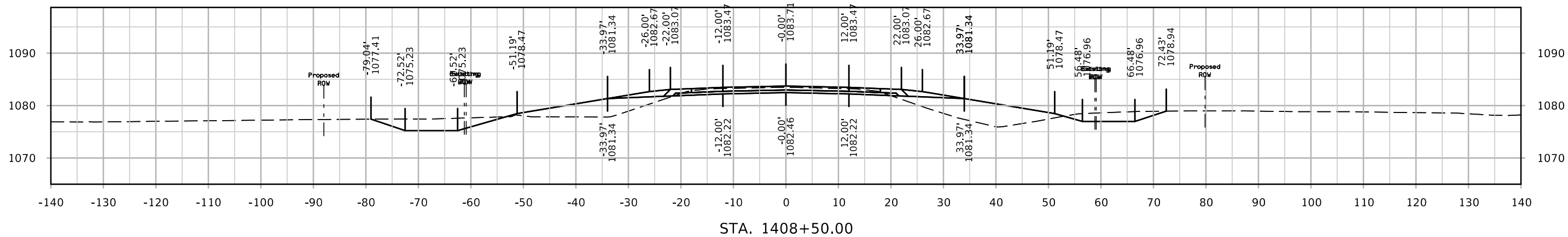
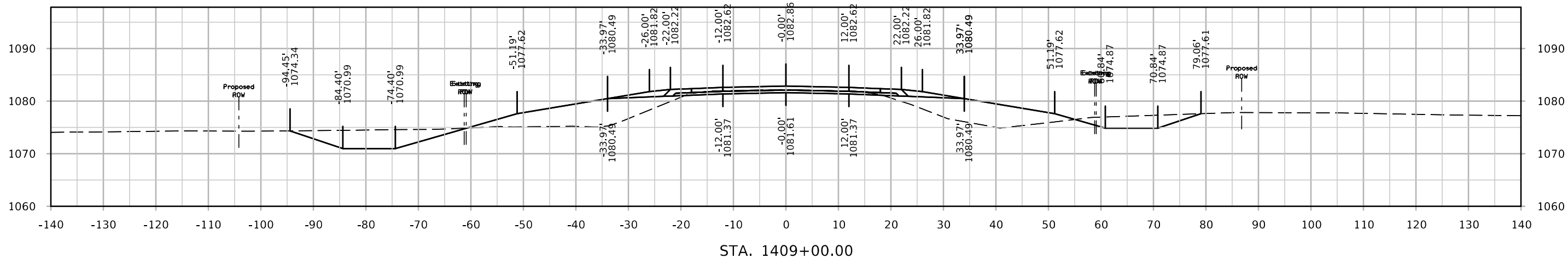


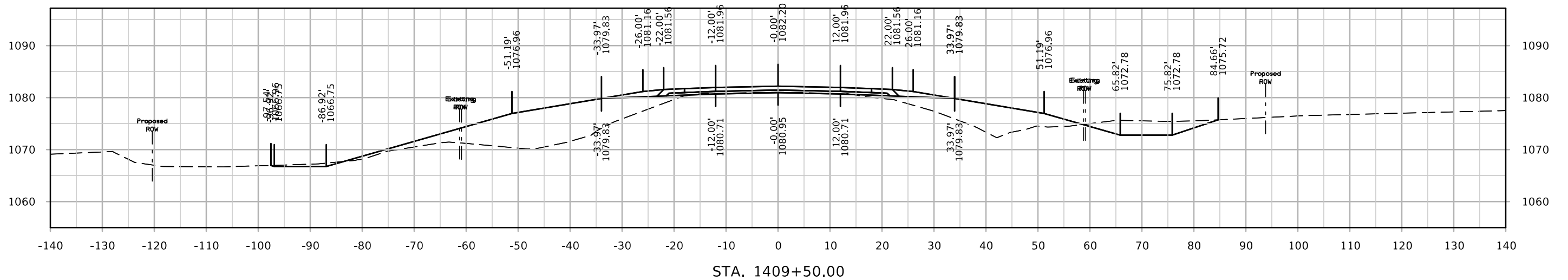
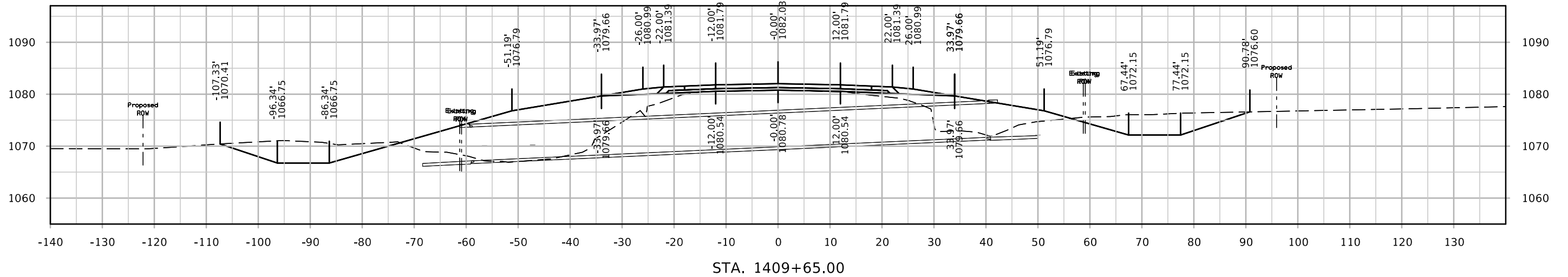
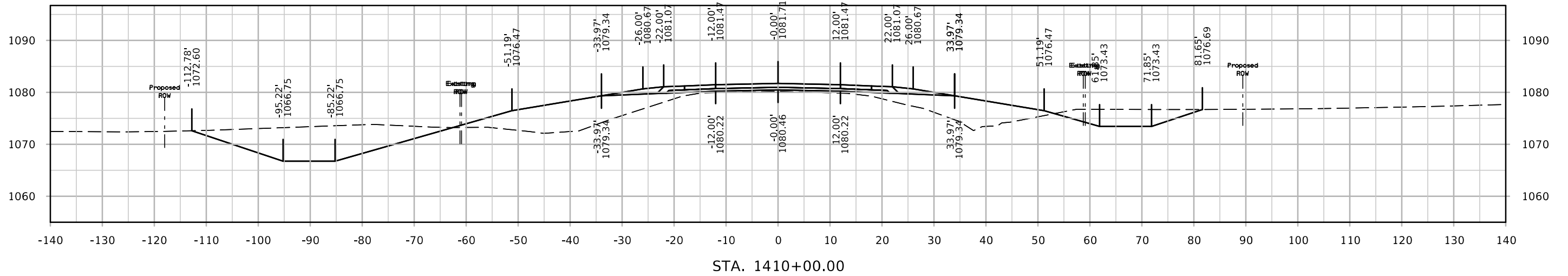


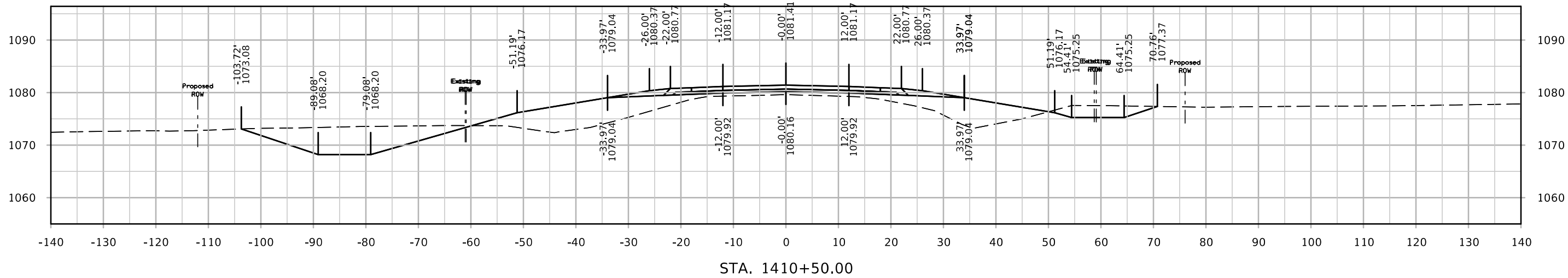
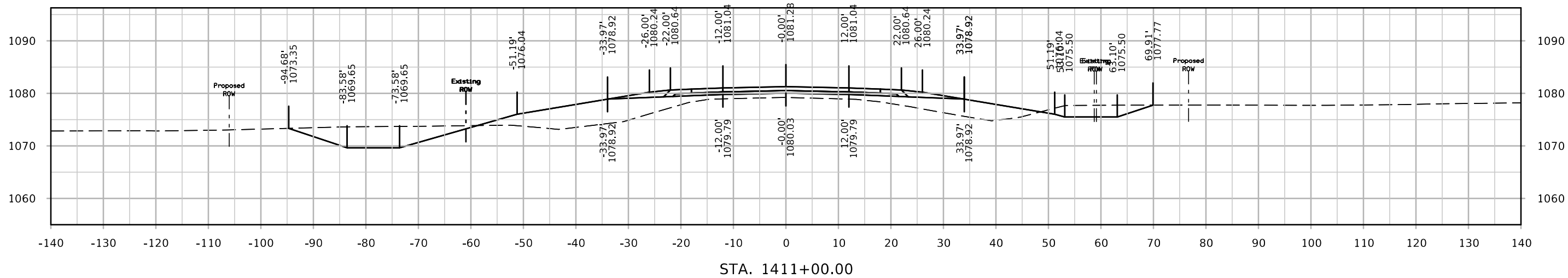
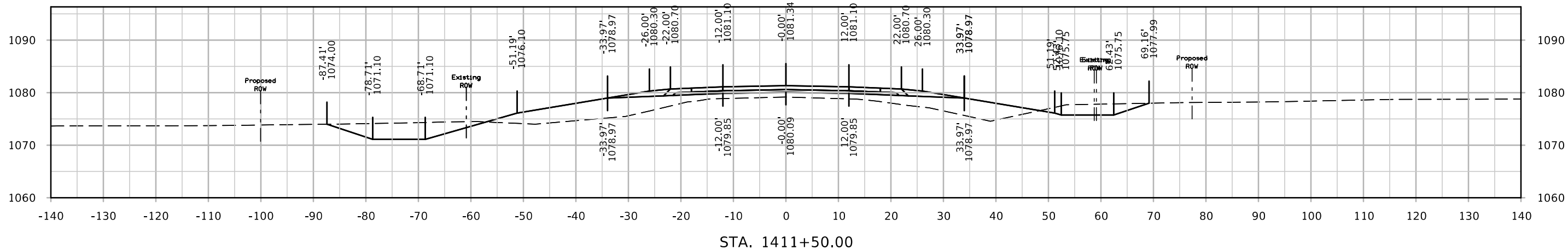


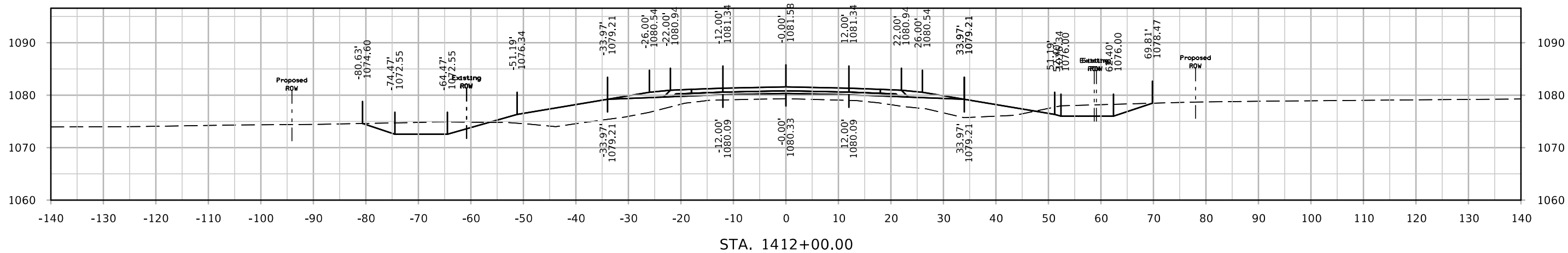
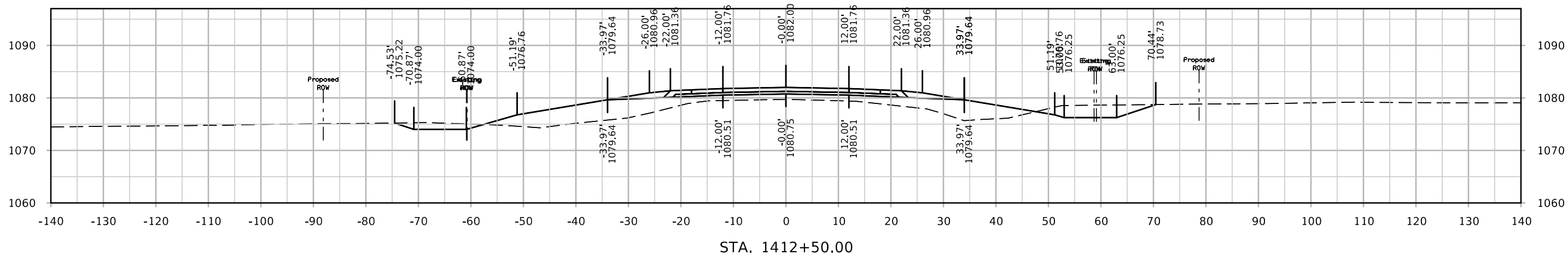
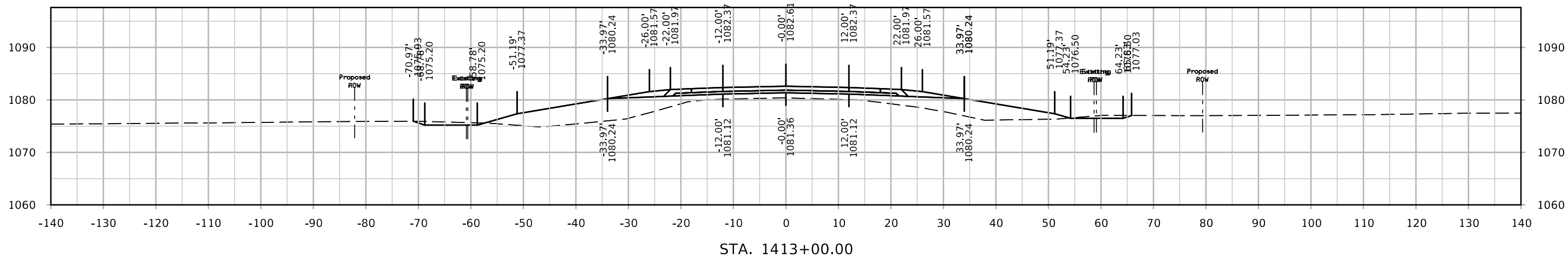


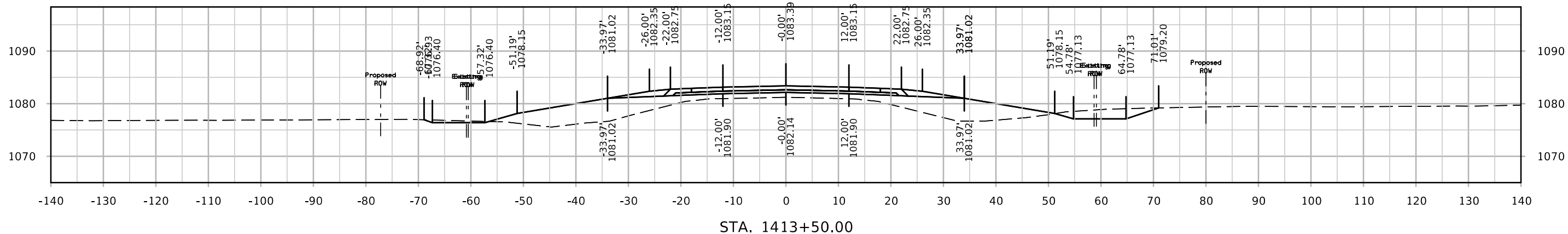
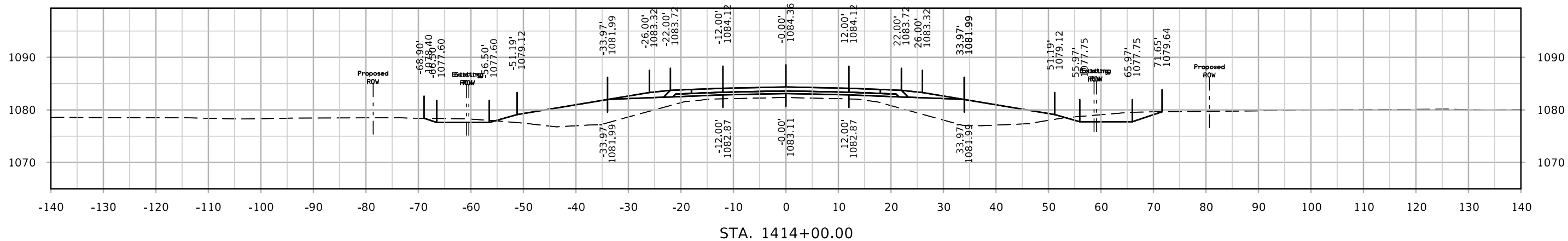
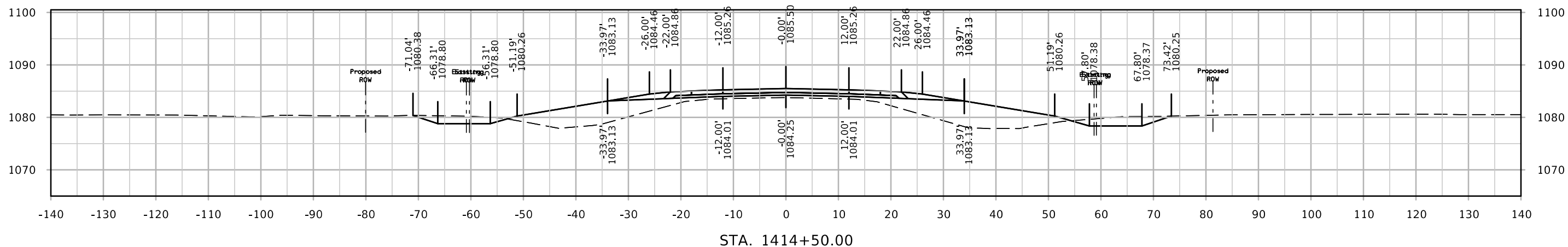


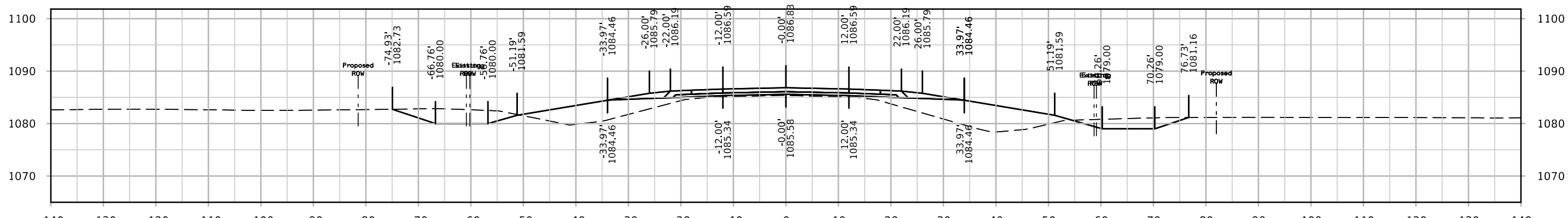
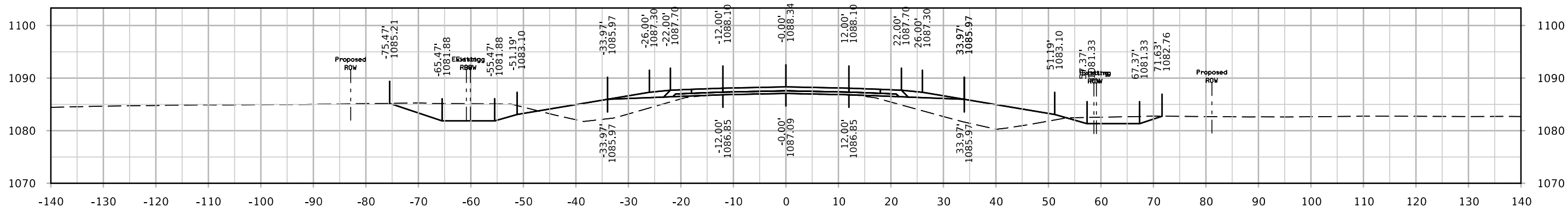
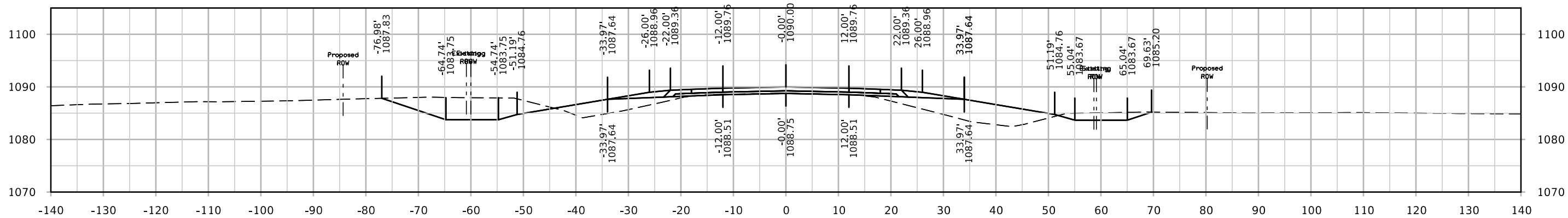




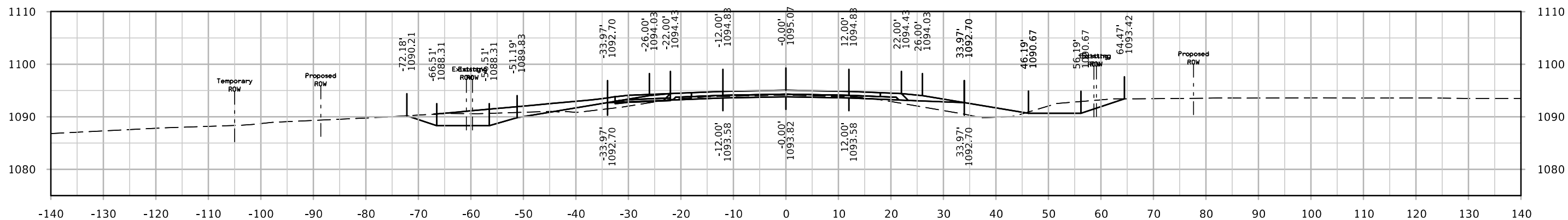




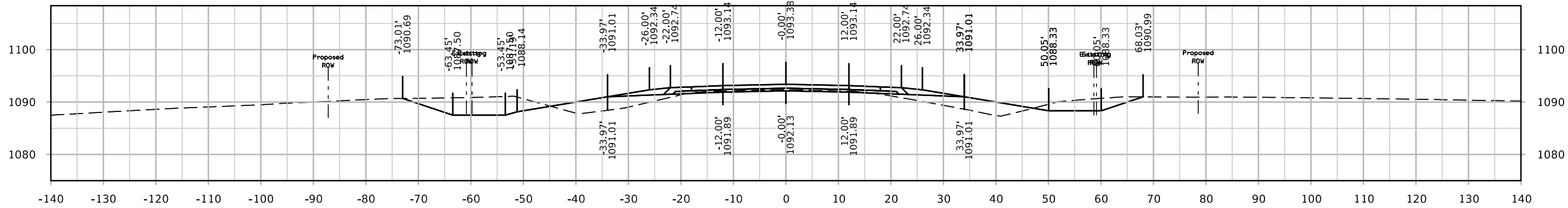




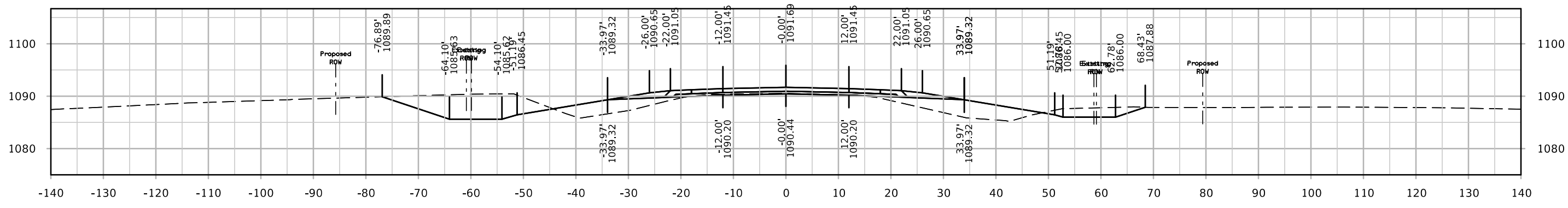




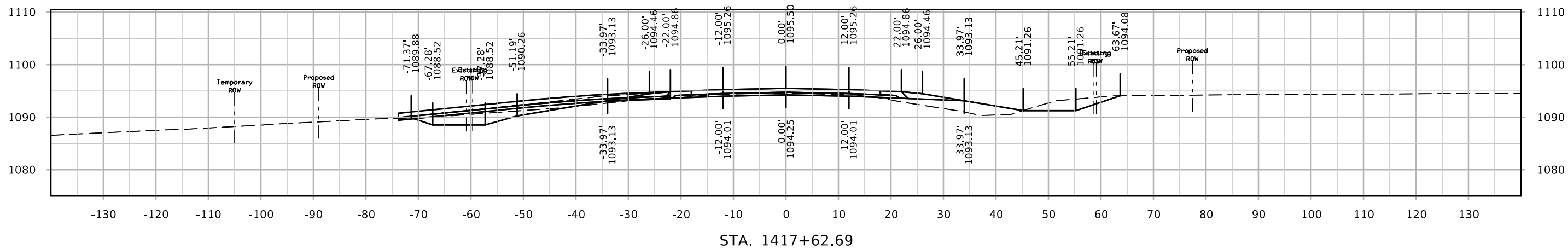
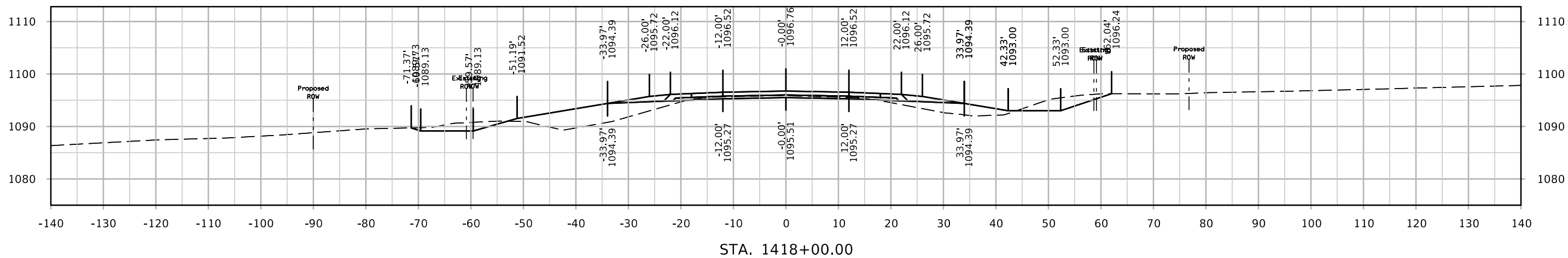
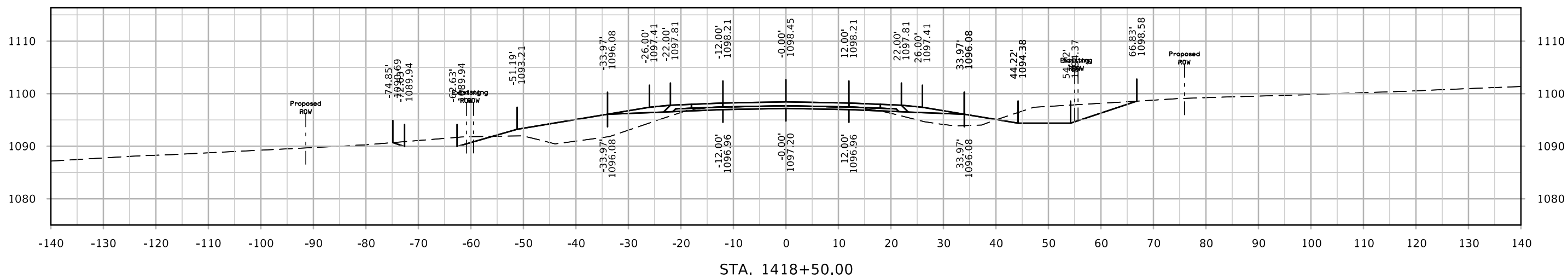
STA. 1417+50.00



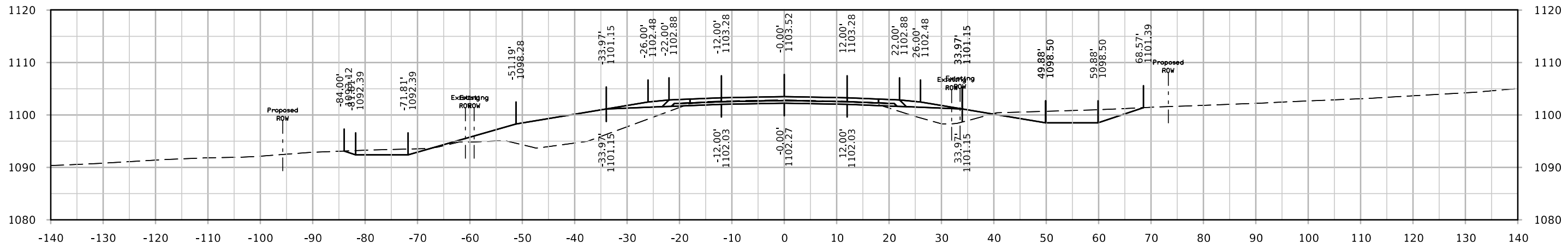
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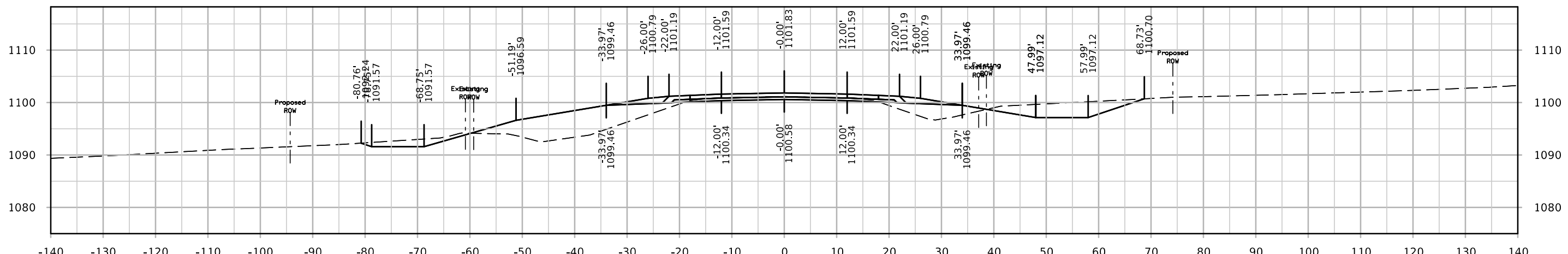
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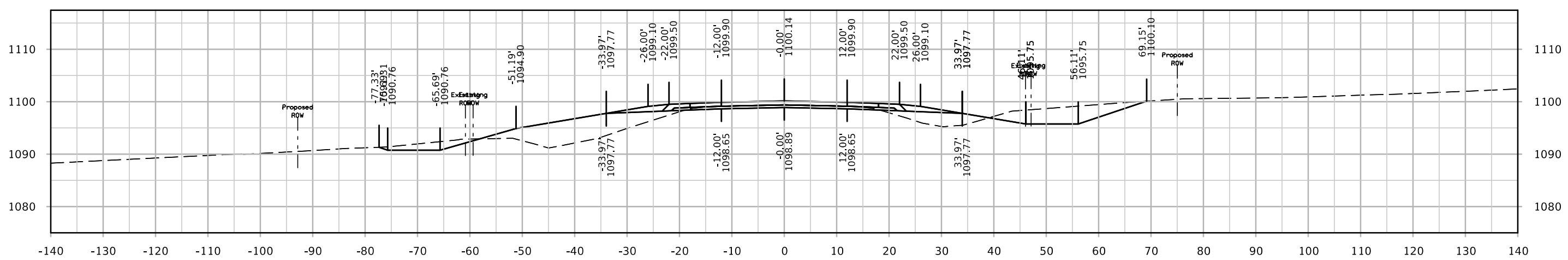
# IA 13



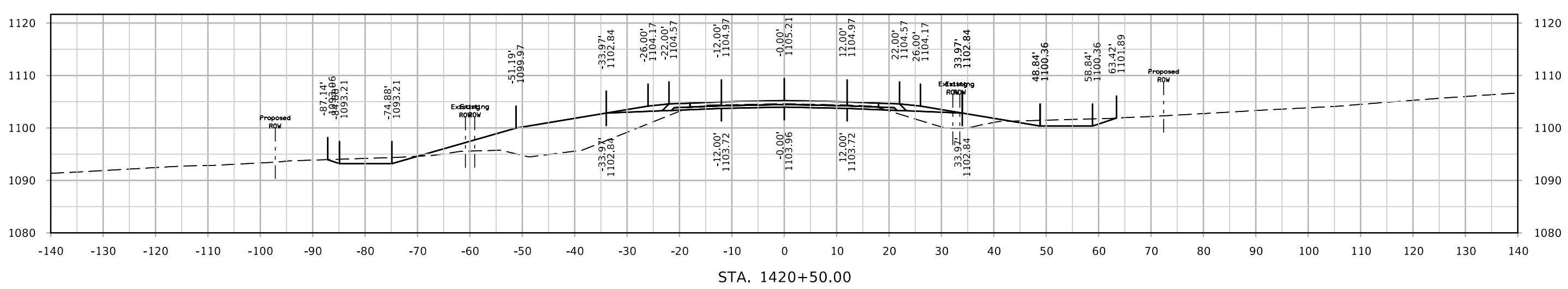
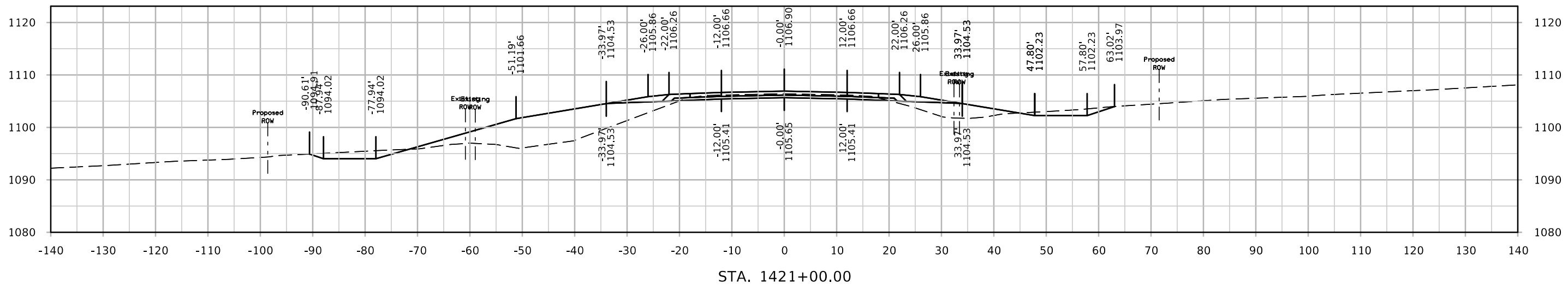
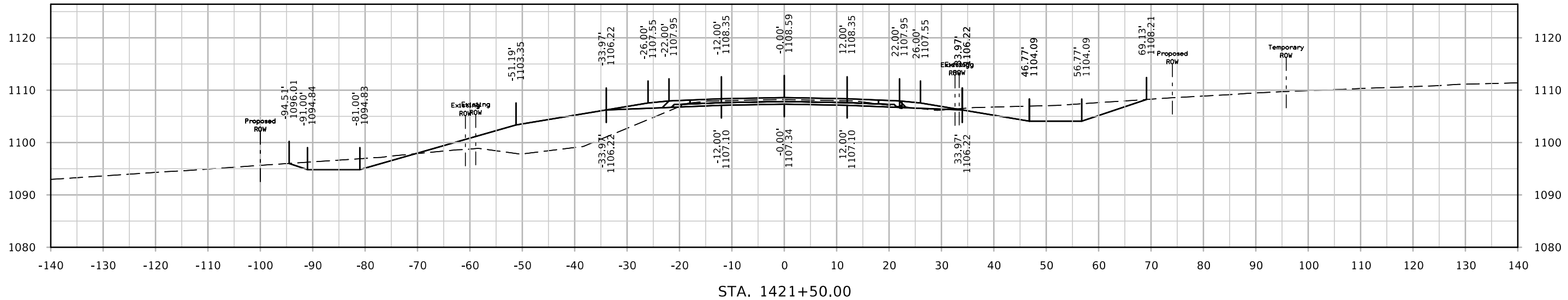
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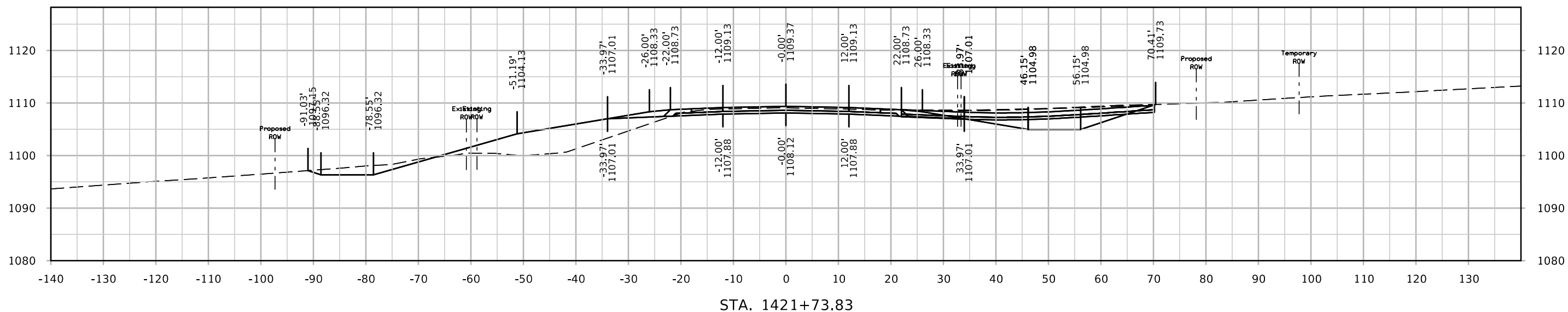
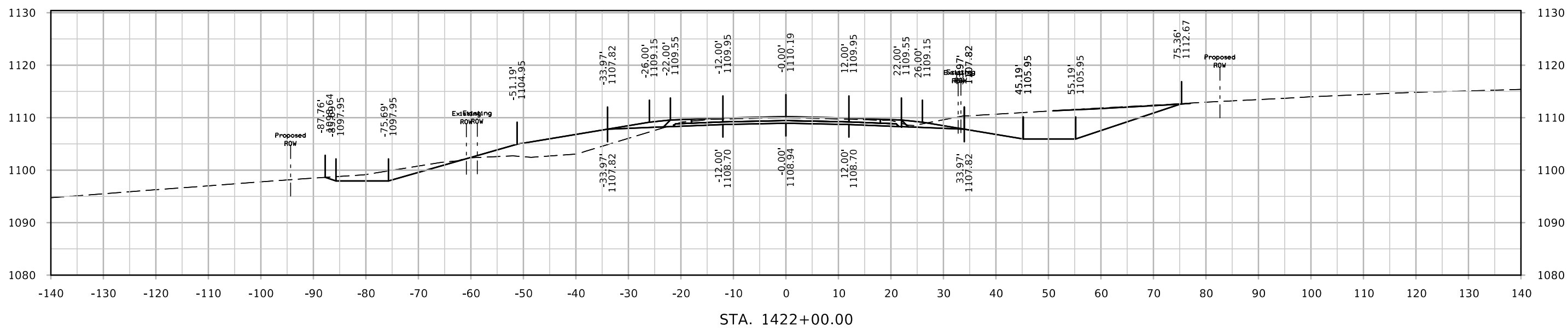


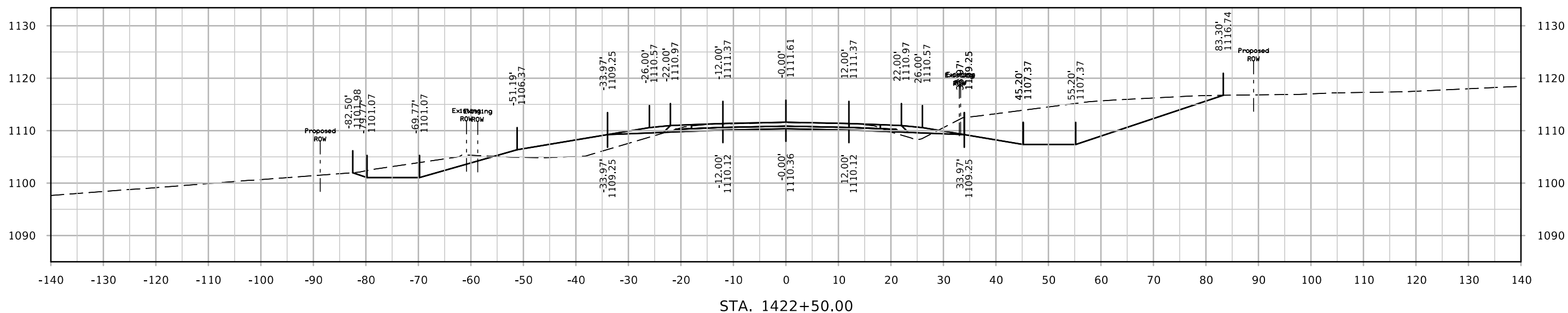
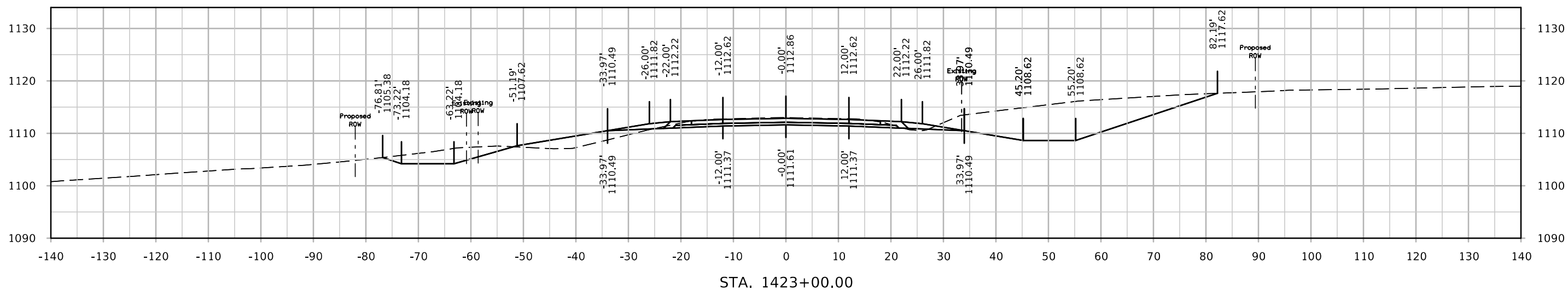
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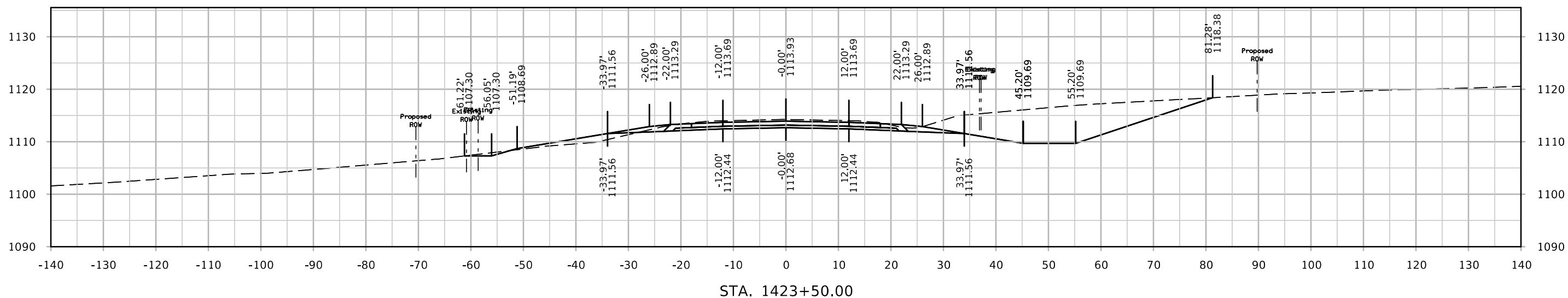
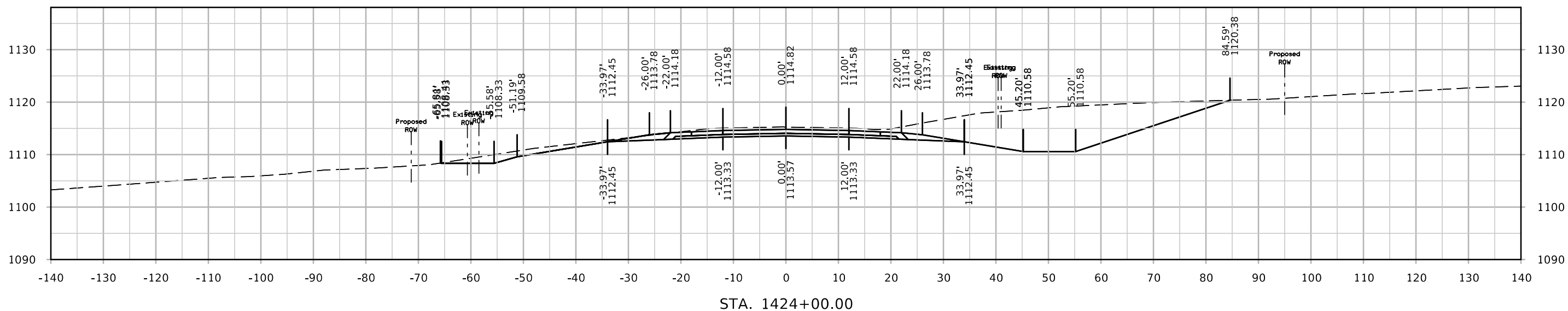


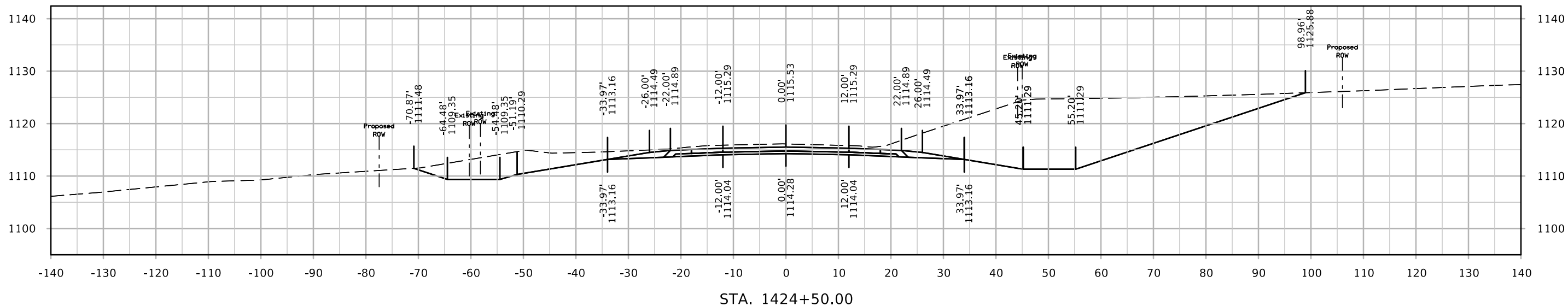
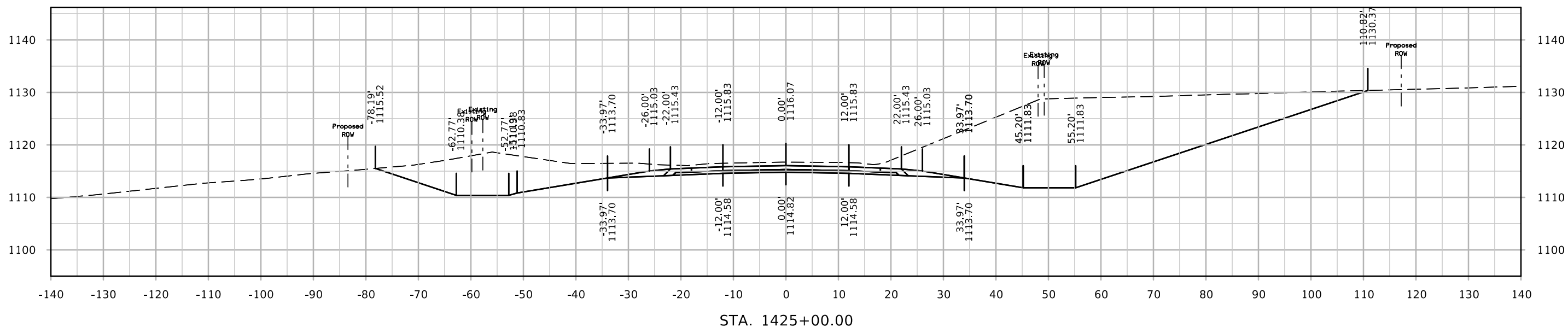
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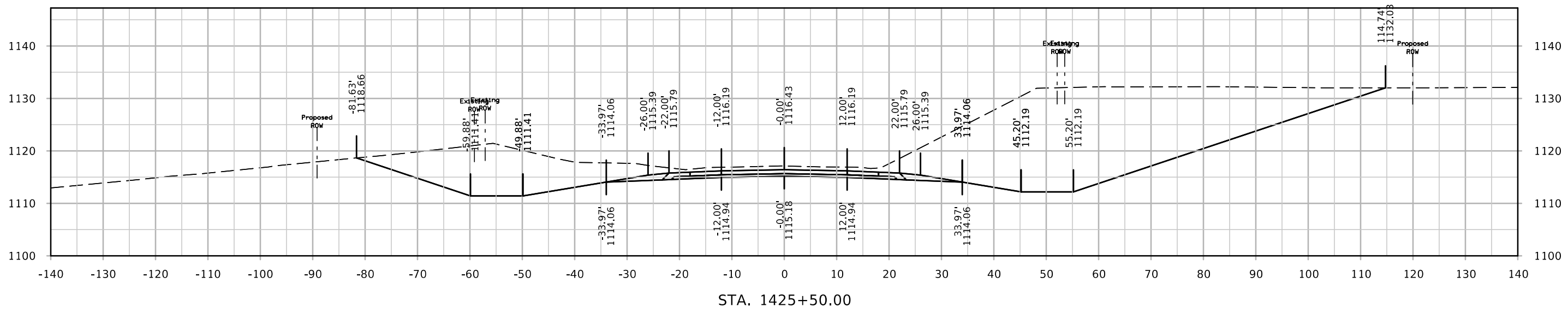
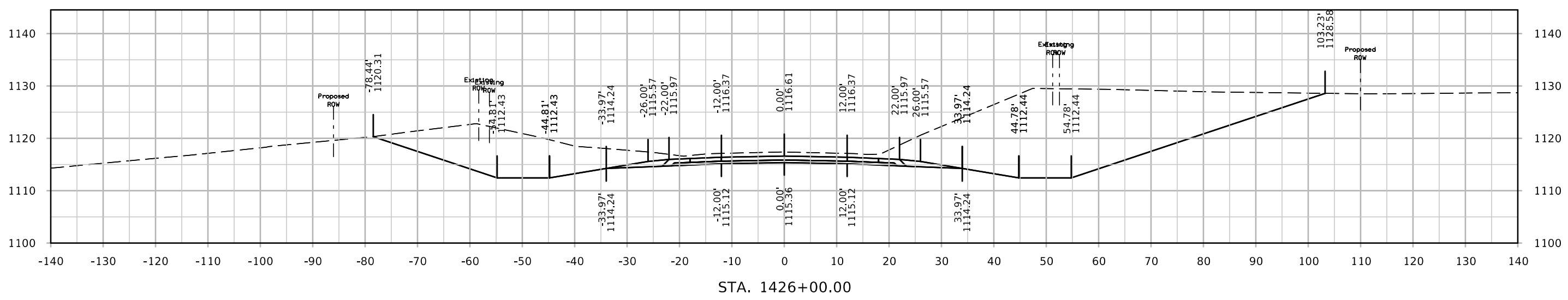
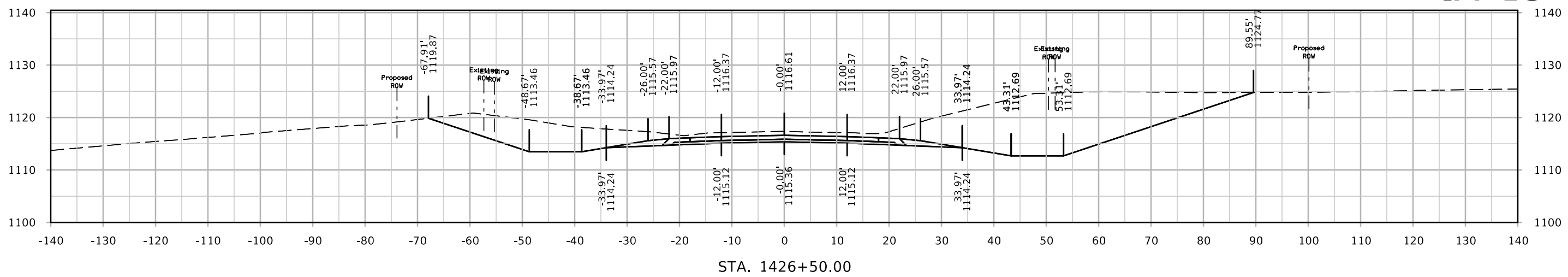


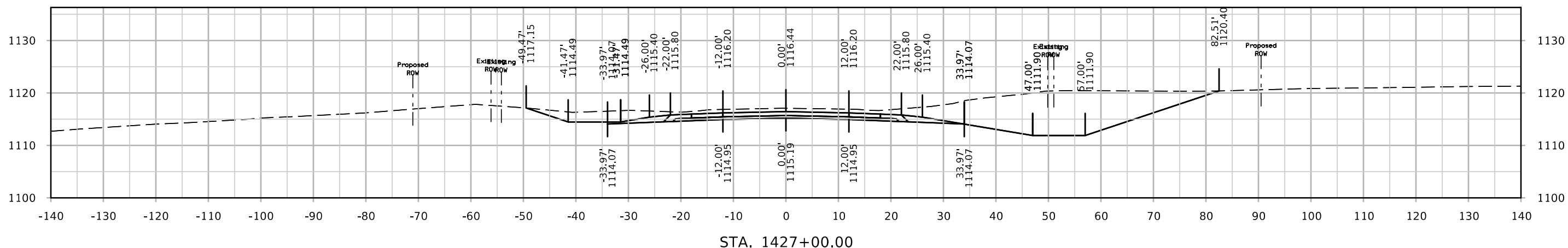
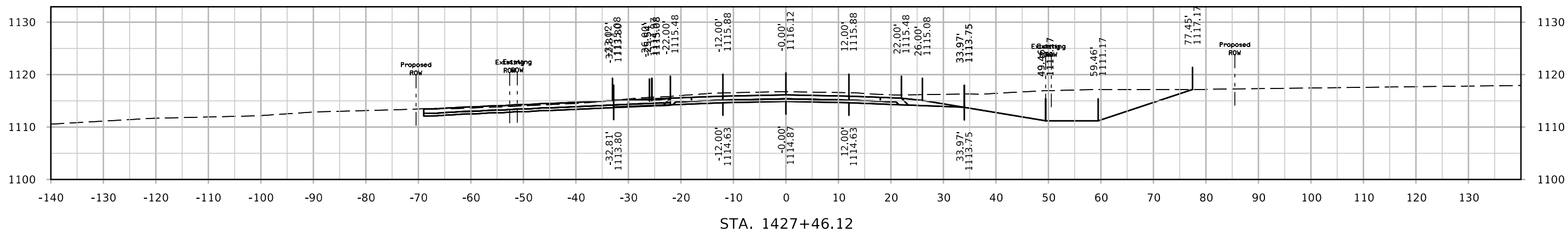
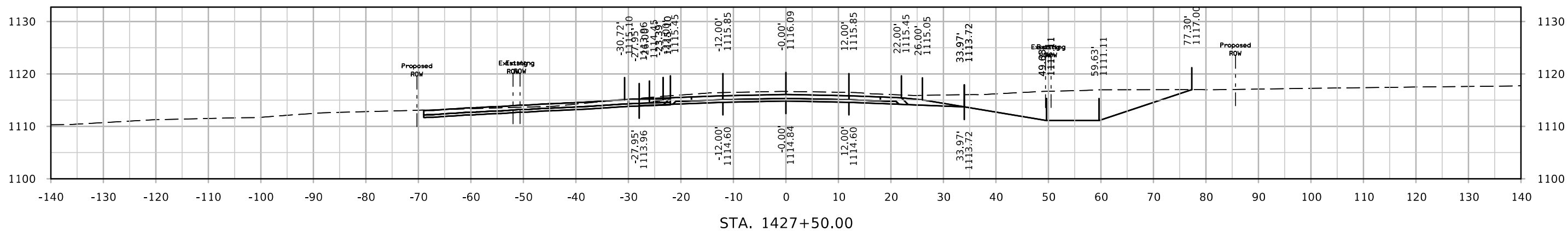


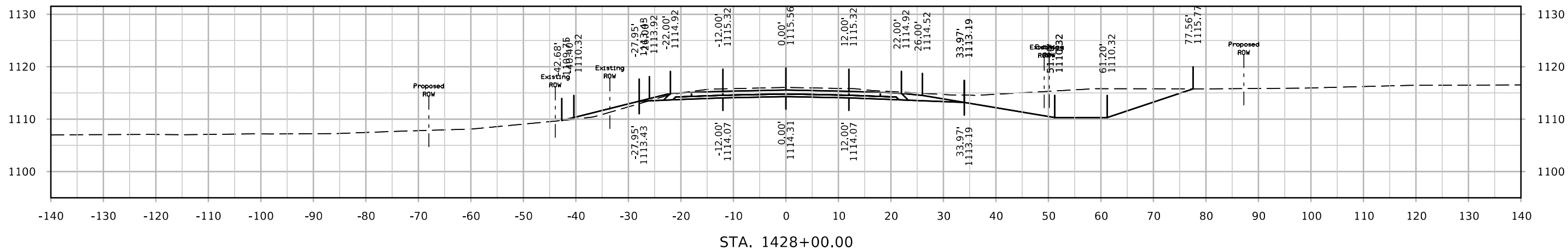
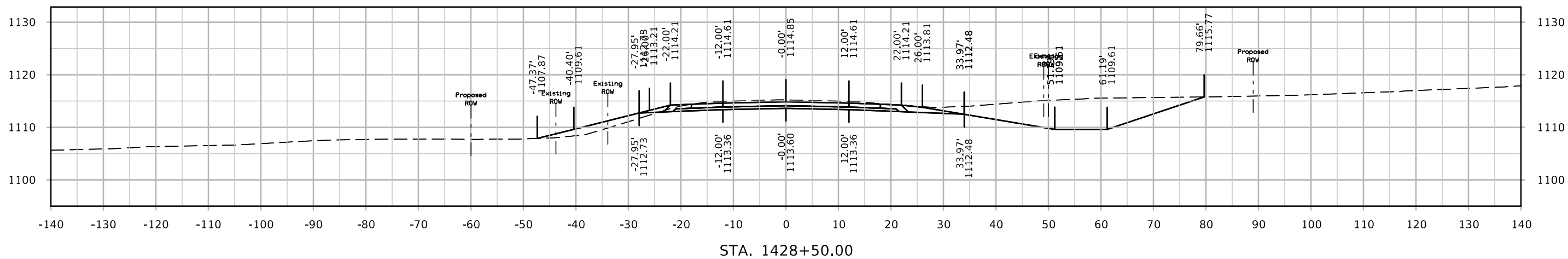
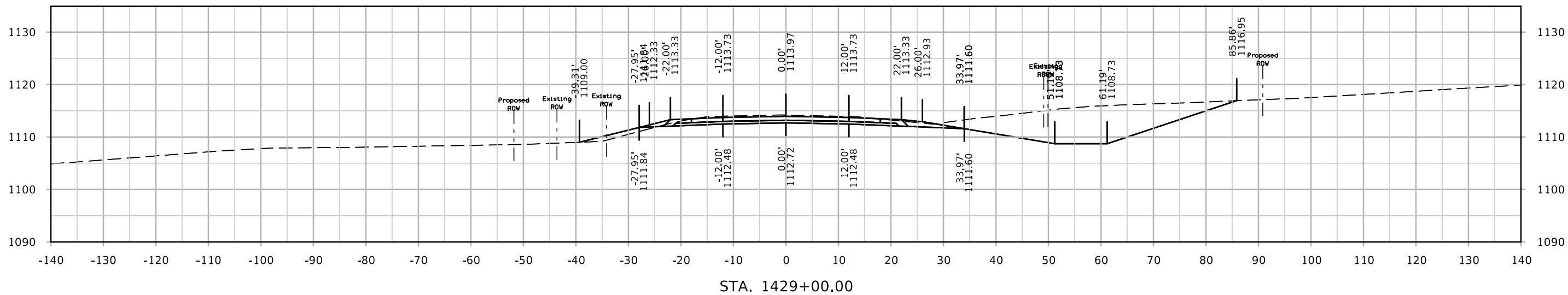




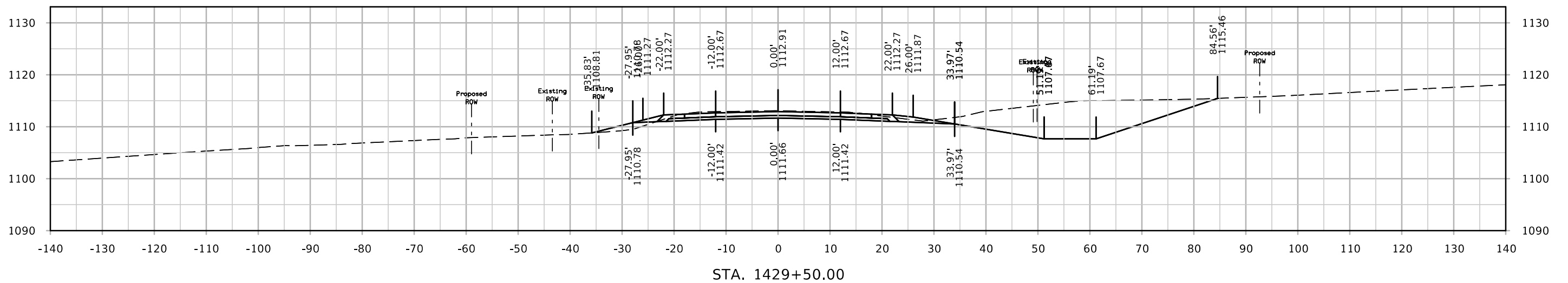
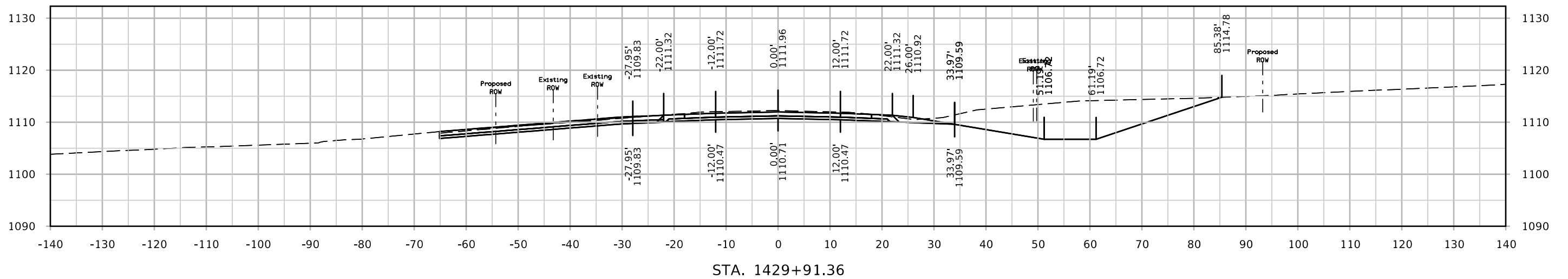
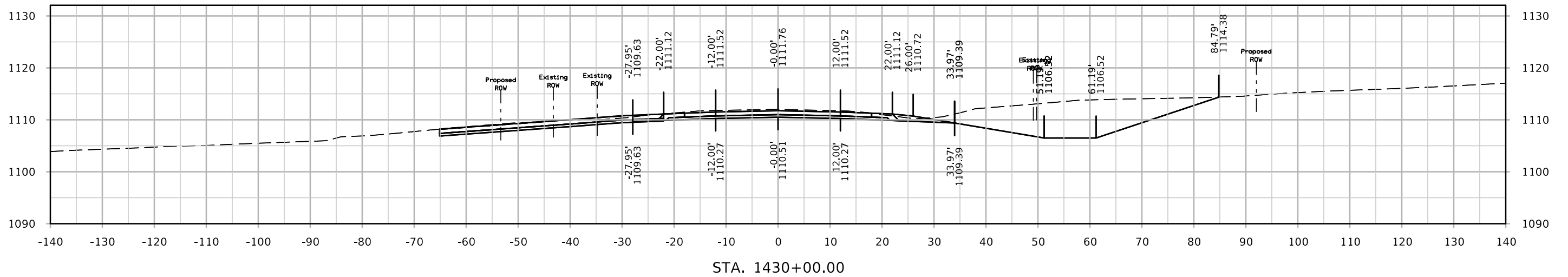
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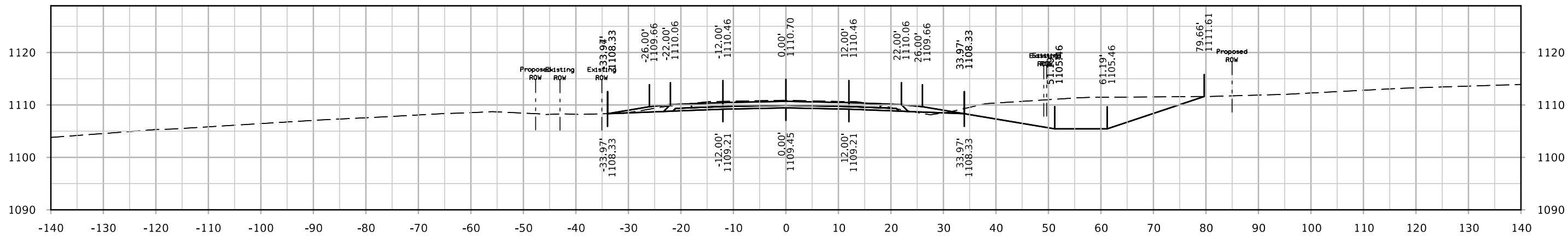
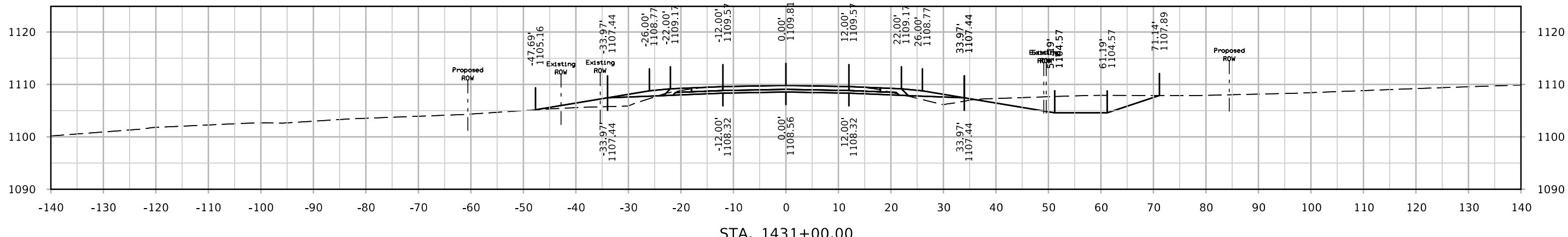
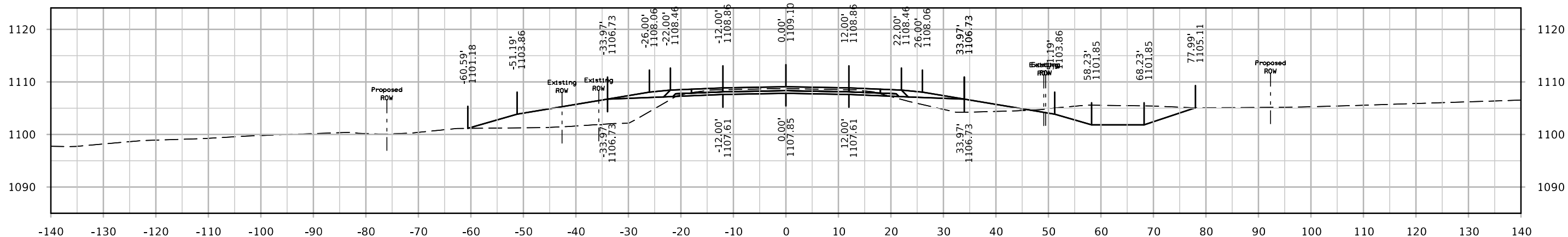


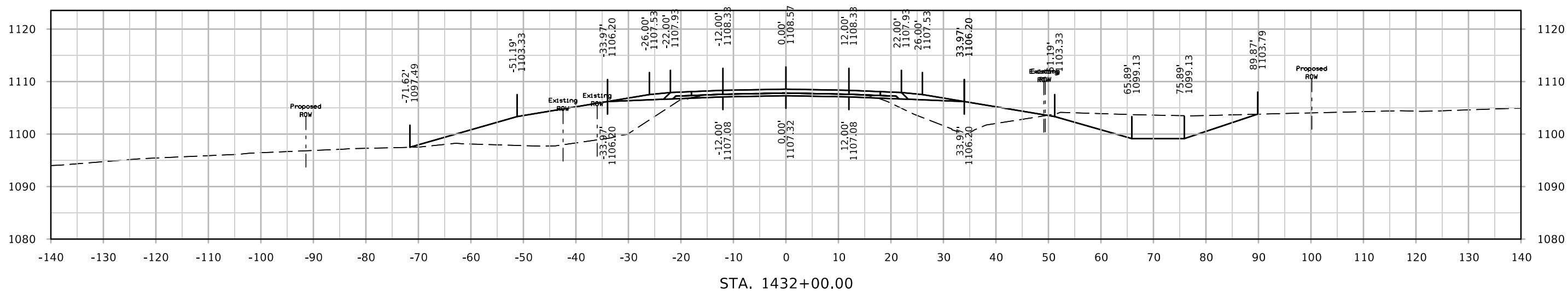
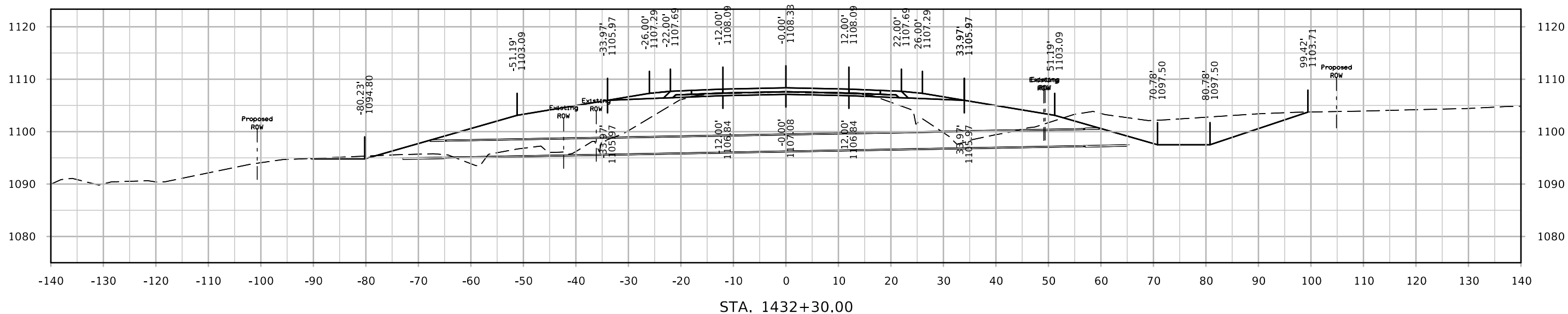


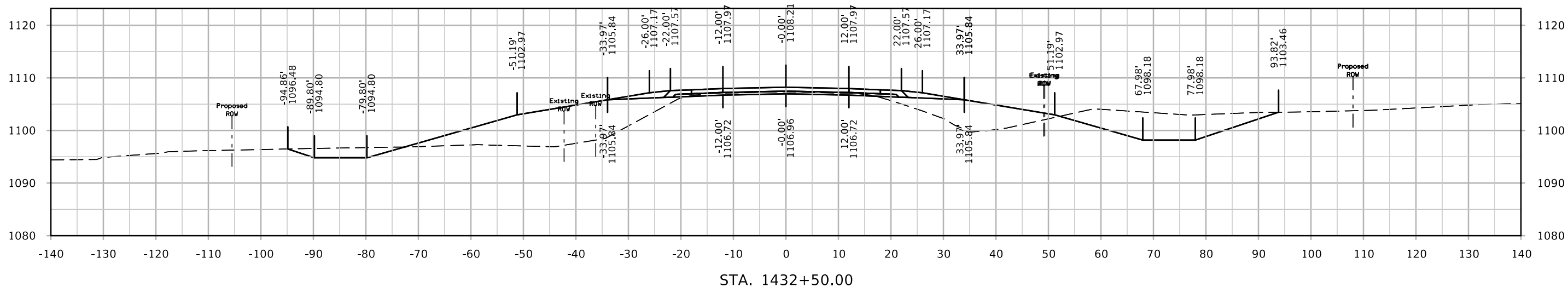
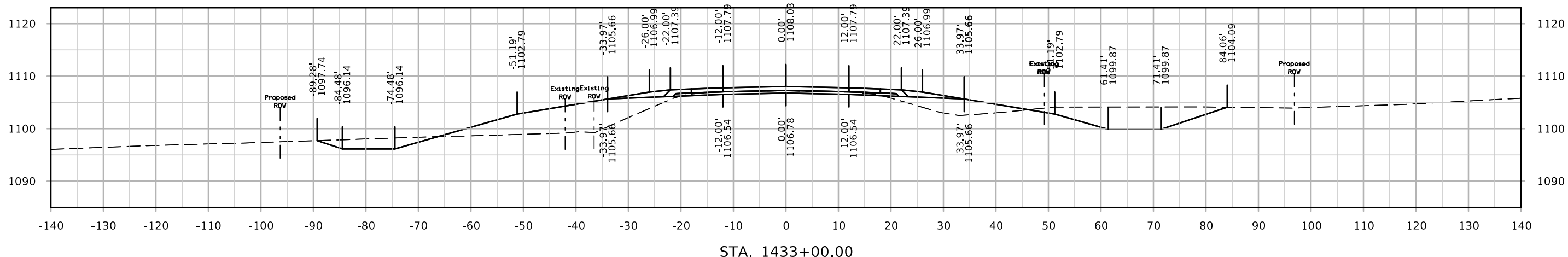
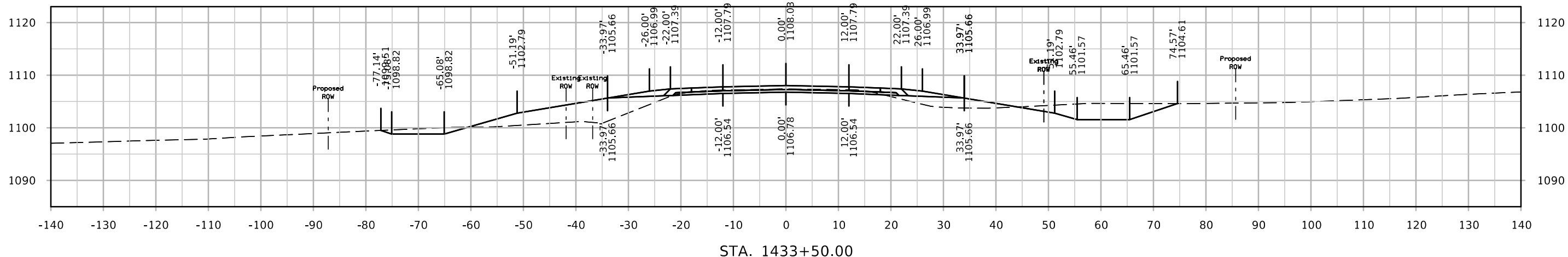


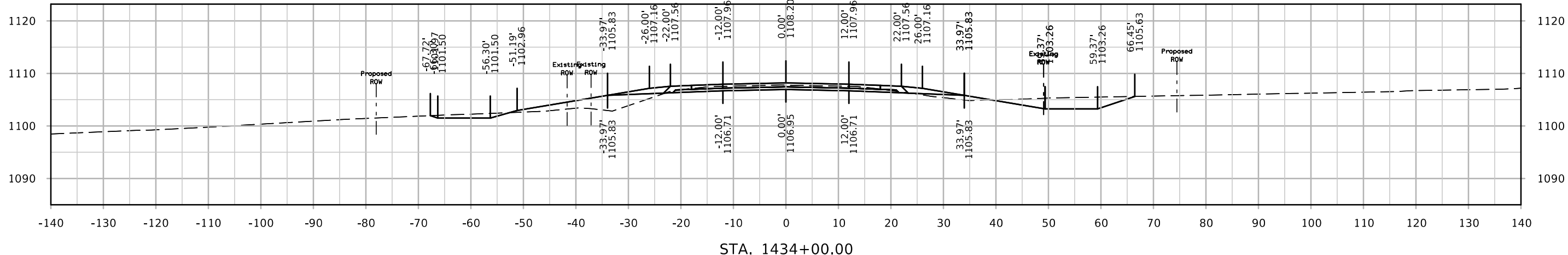
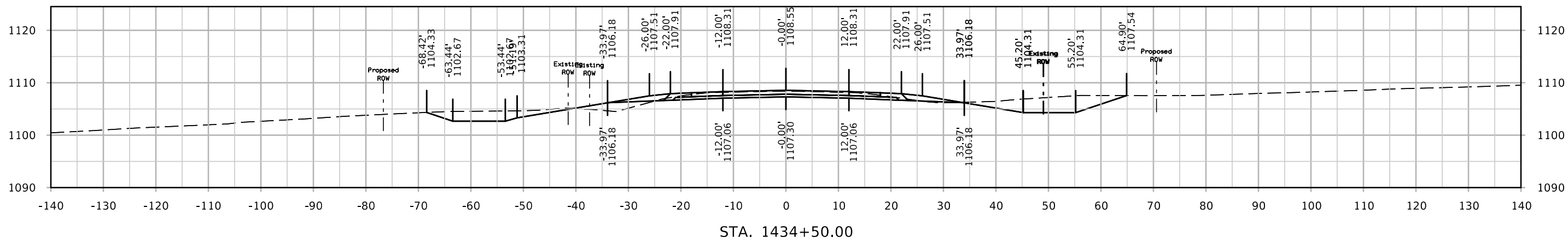
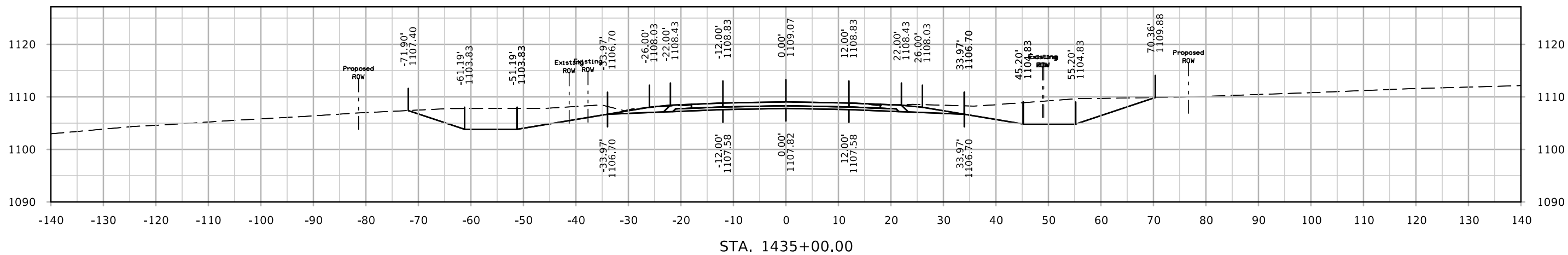
# IA 13





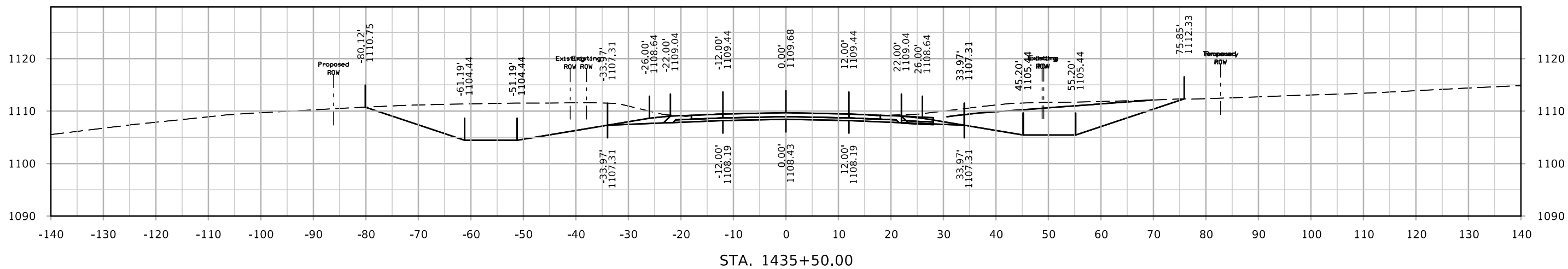
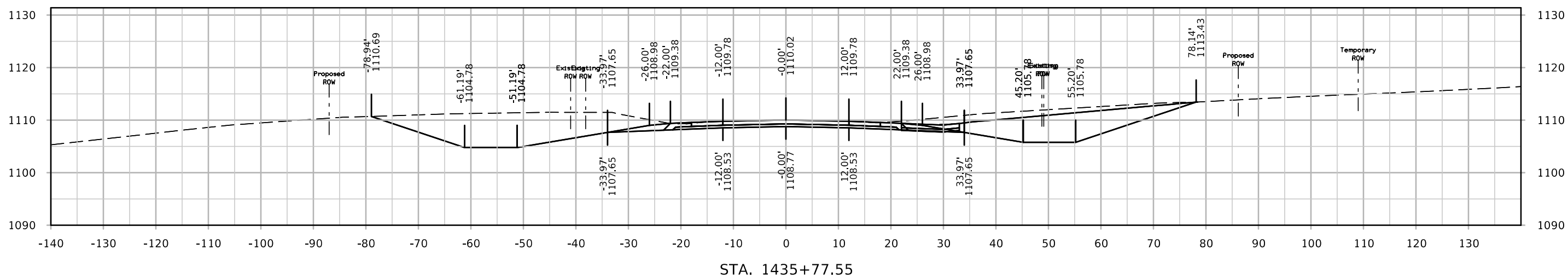
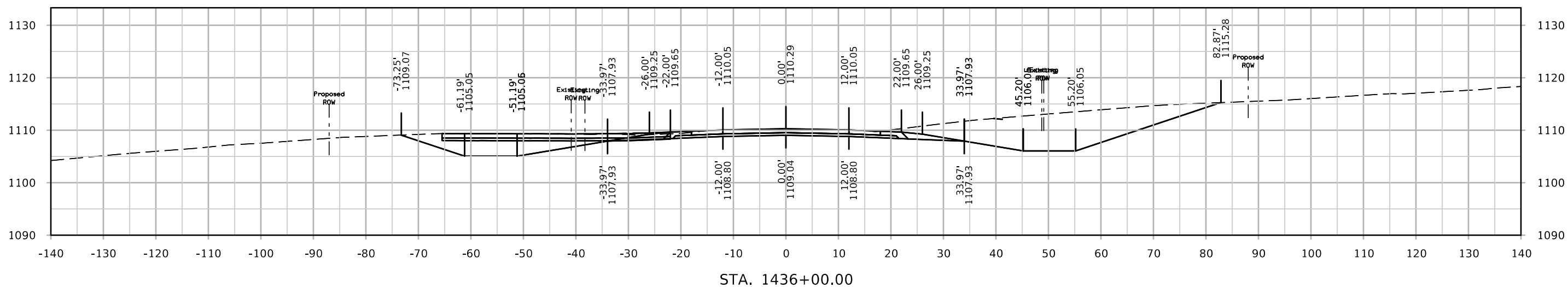




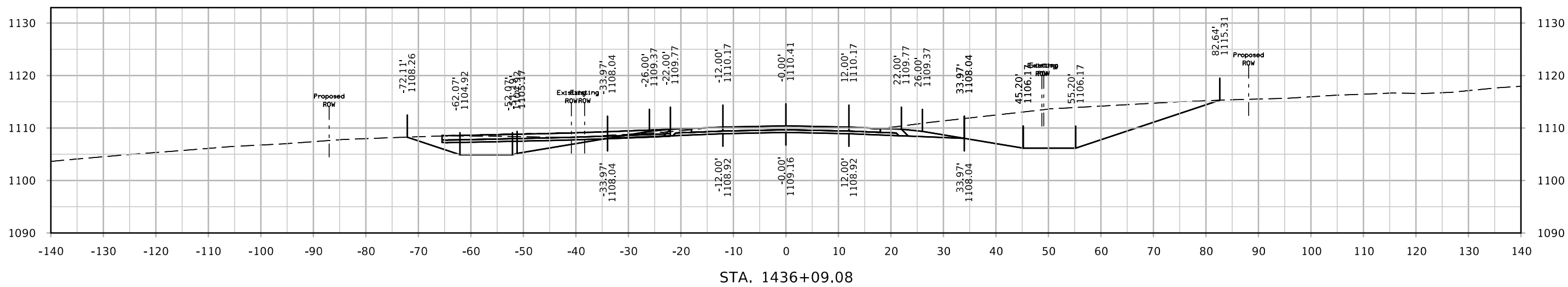
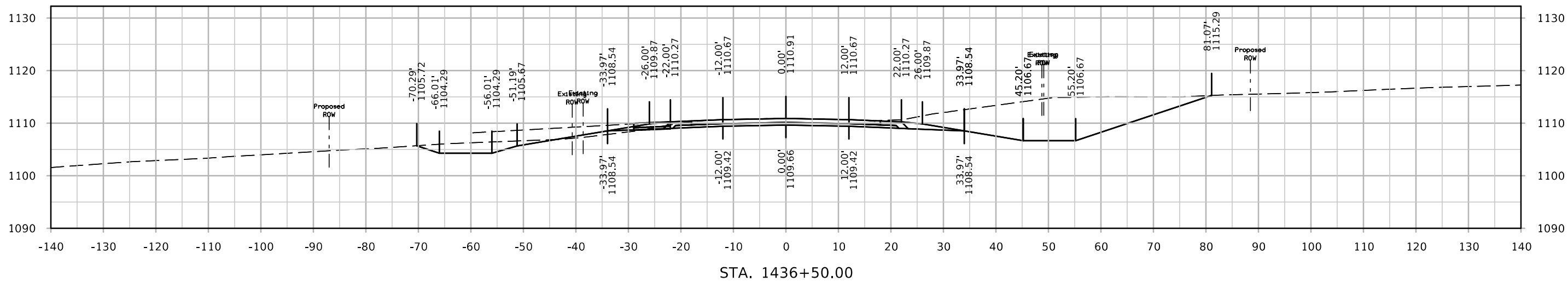
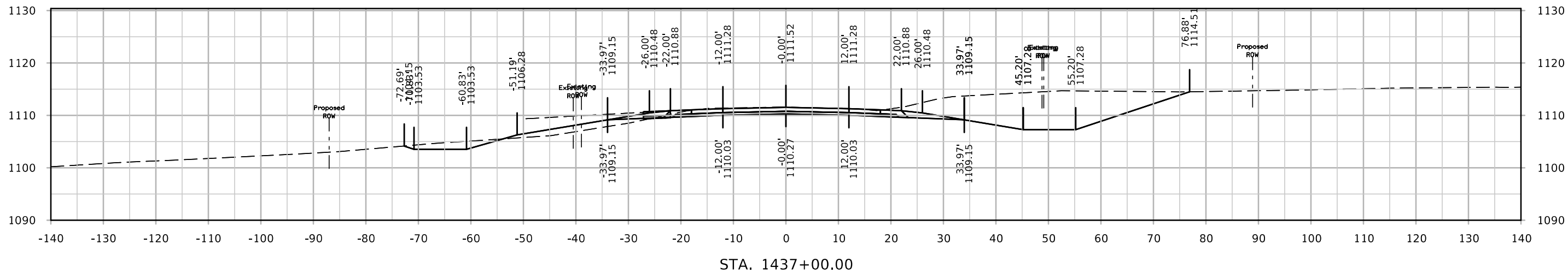




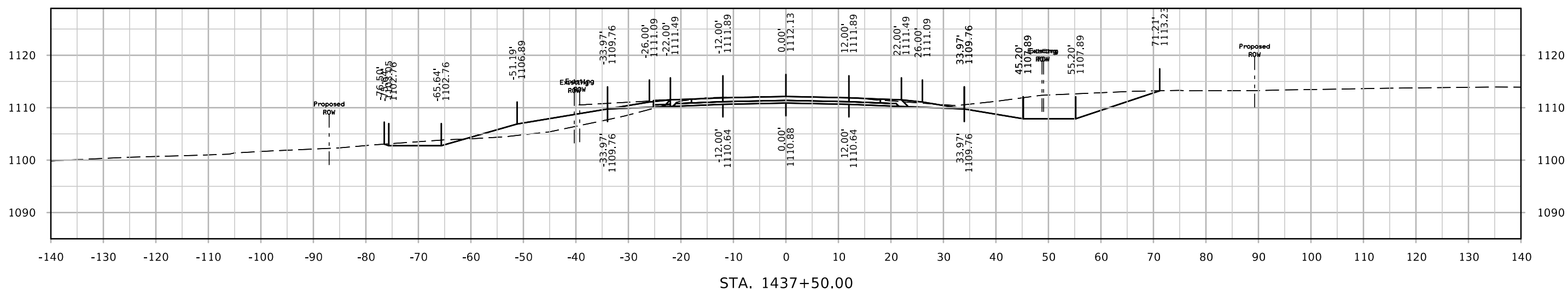
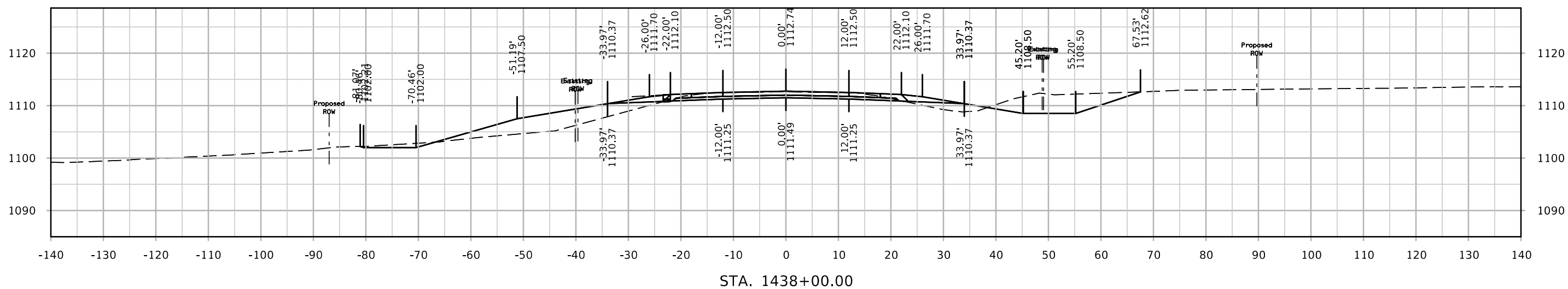
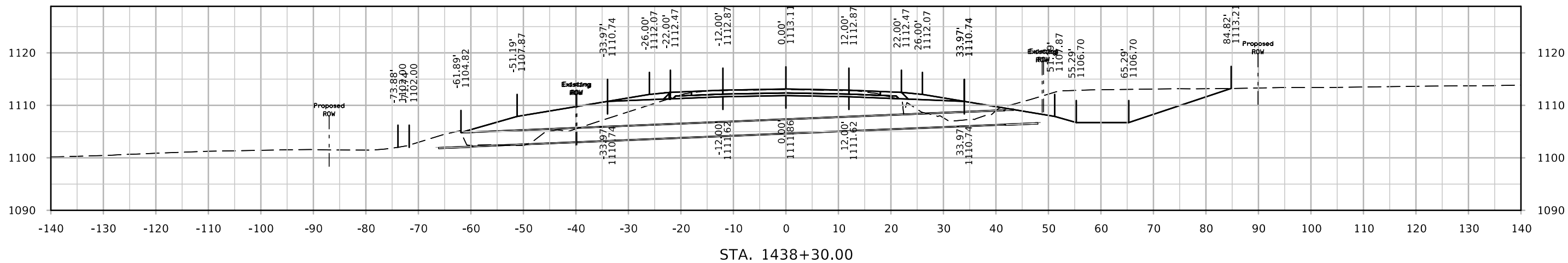
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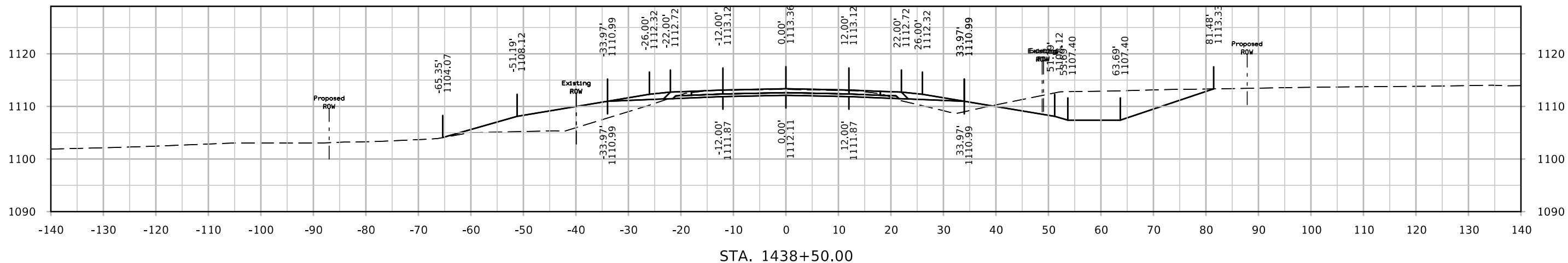
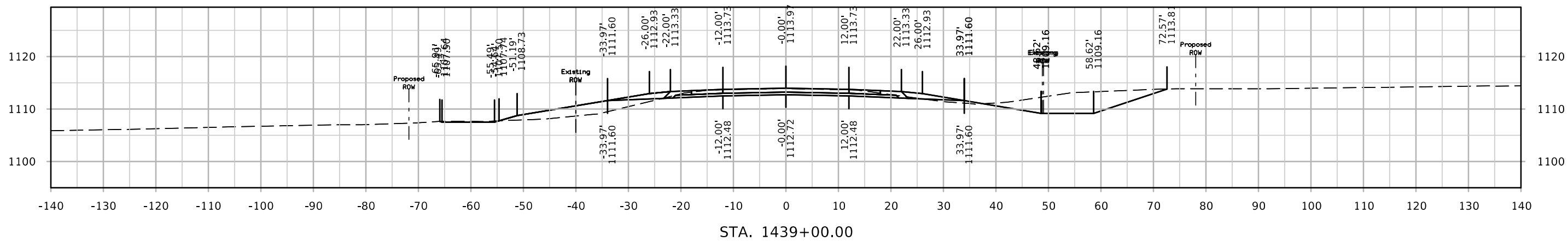
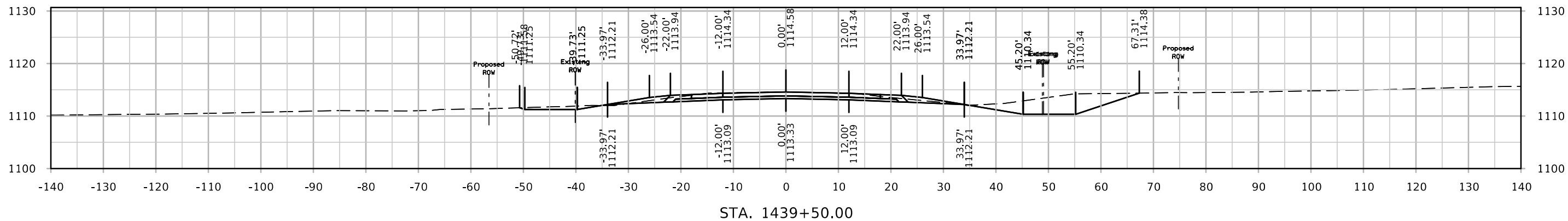


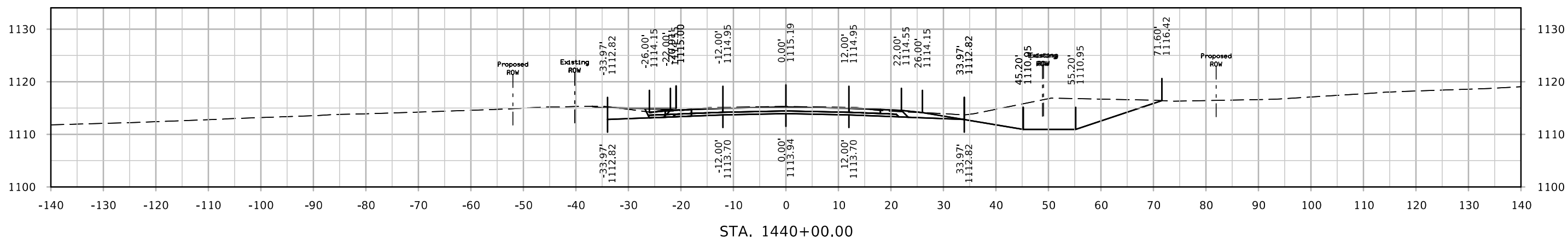
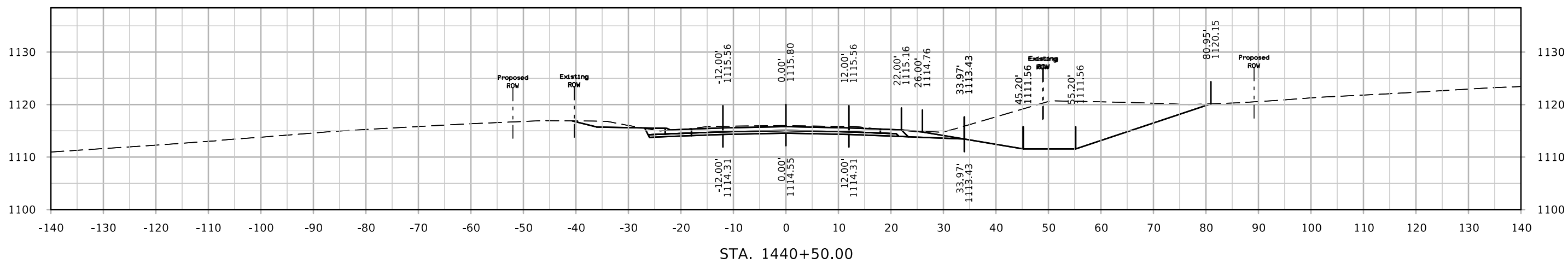
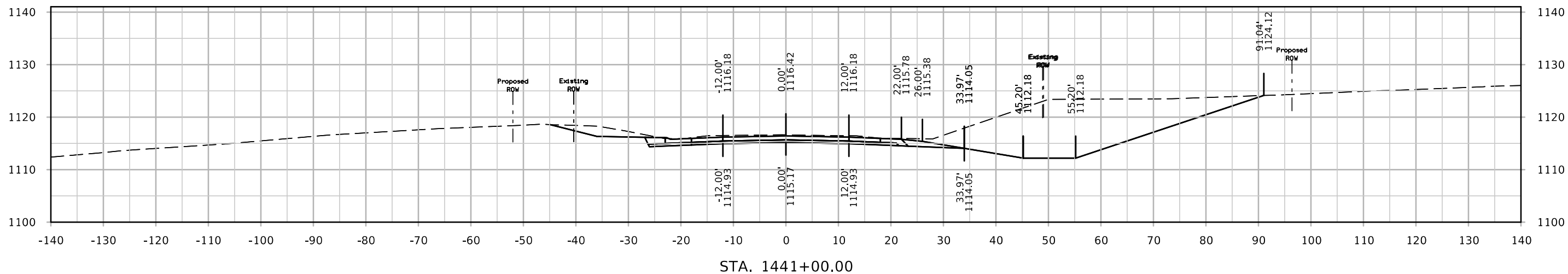
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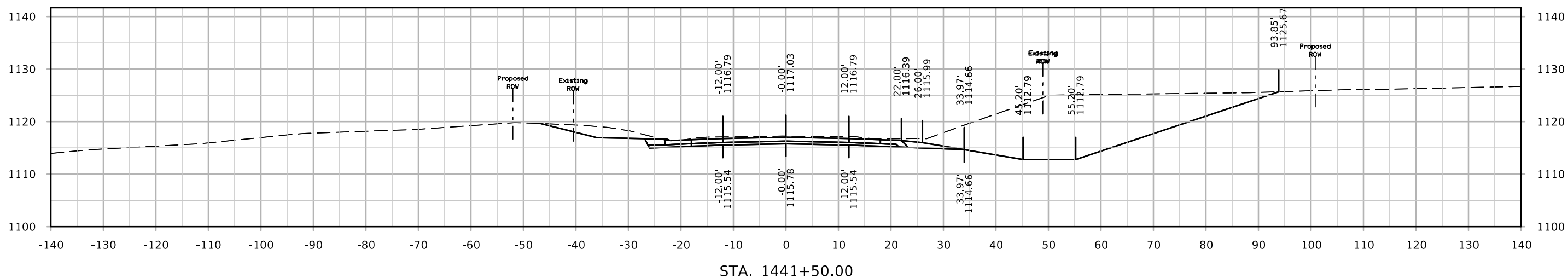
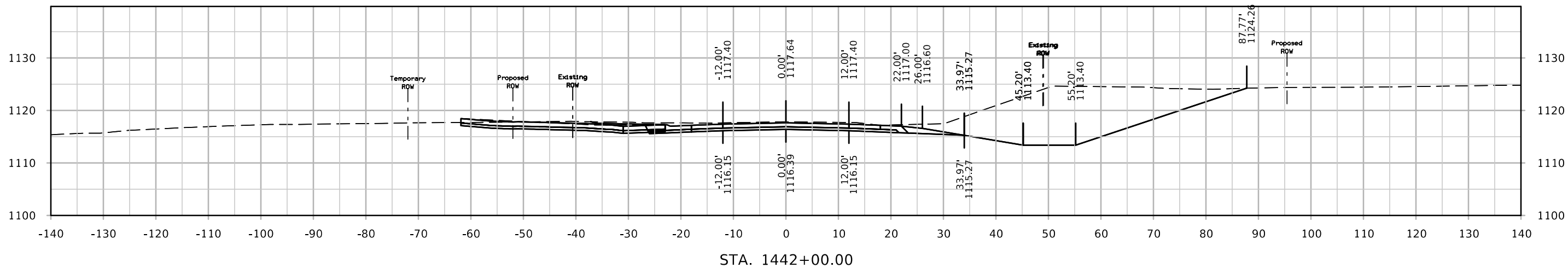
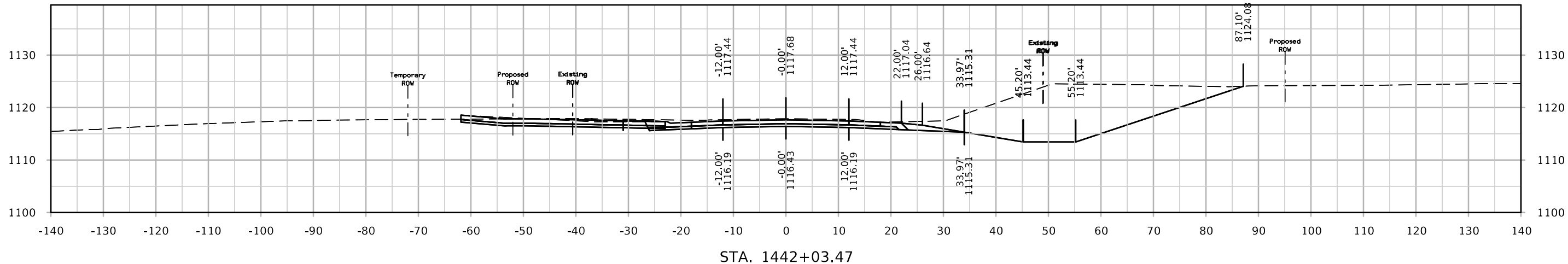


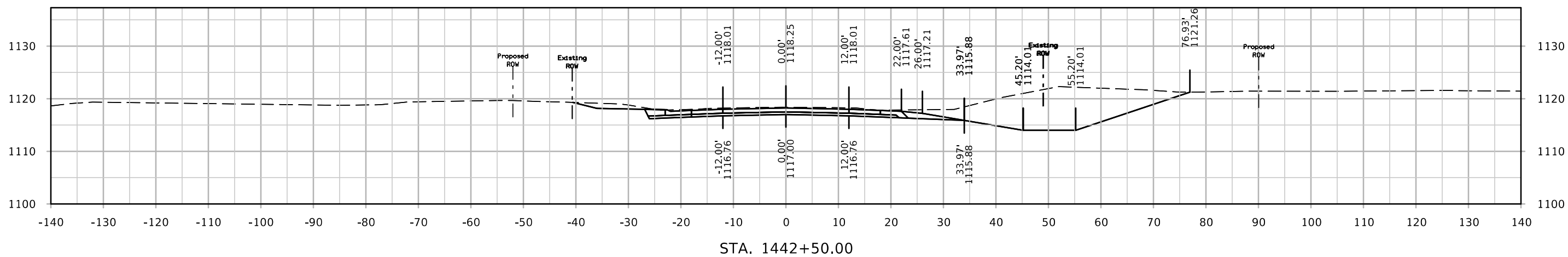
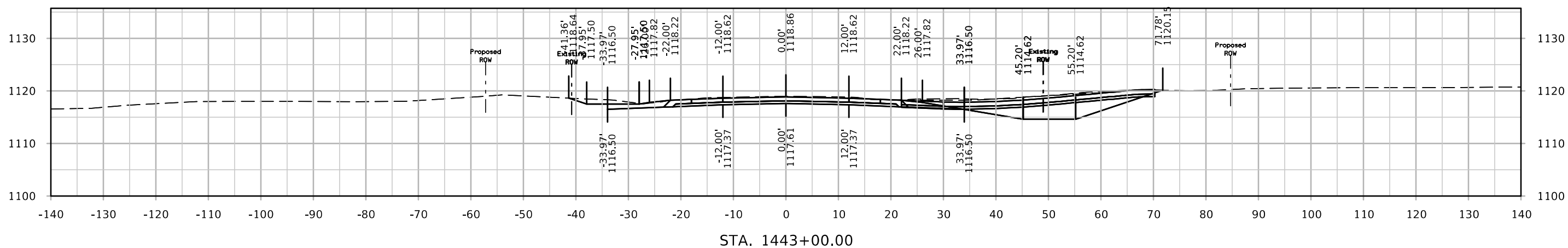
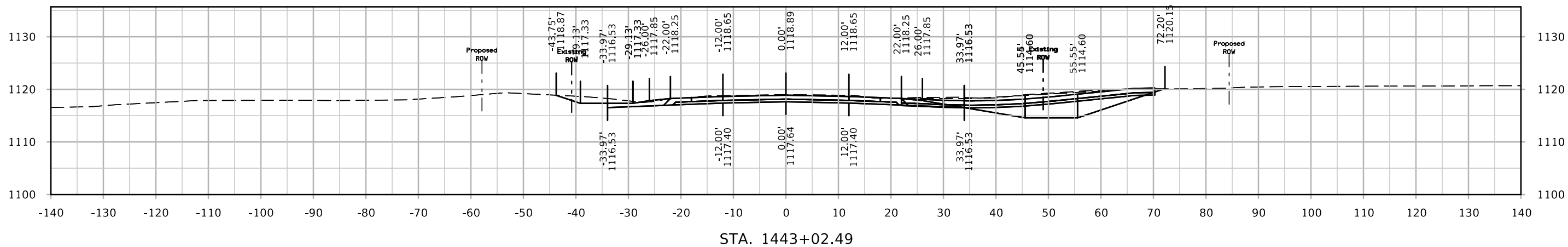
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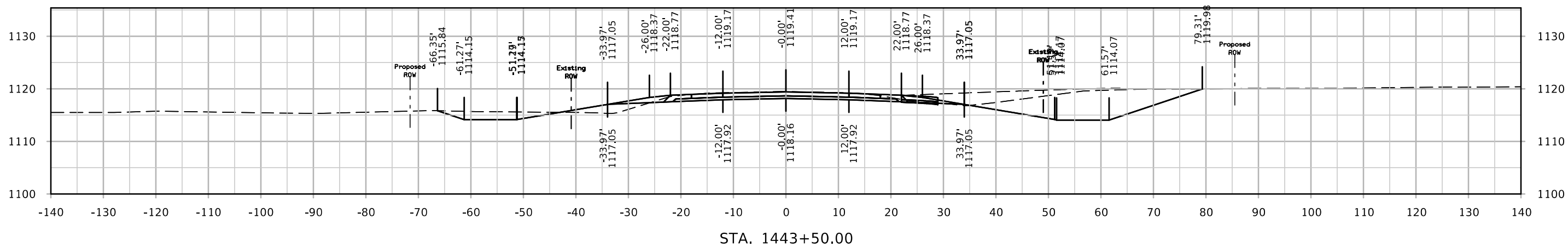
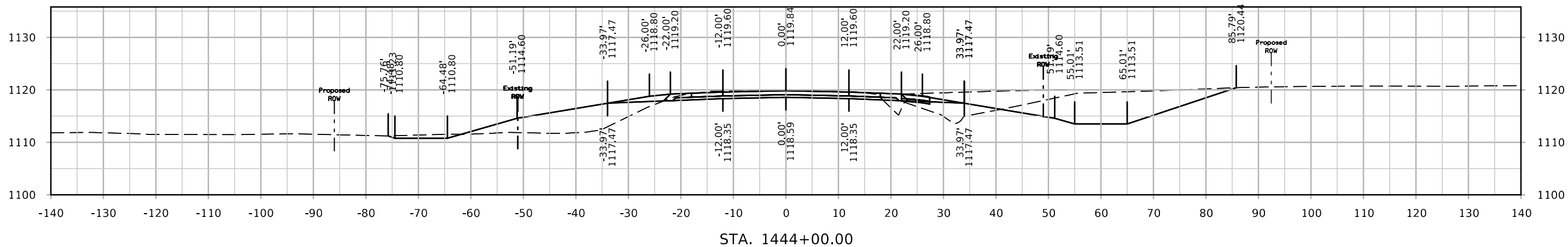
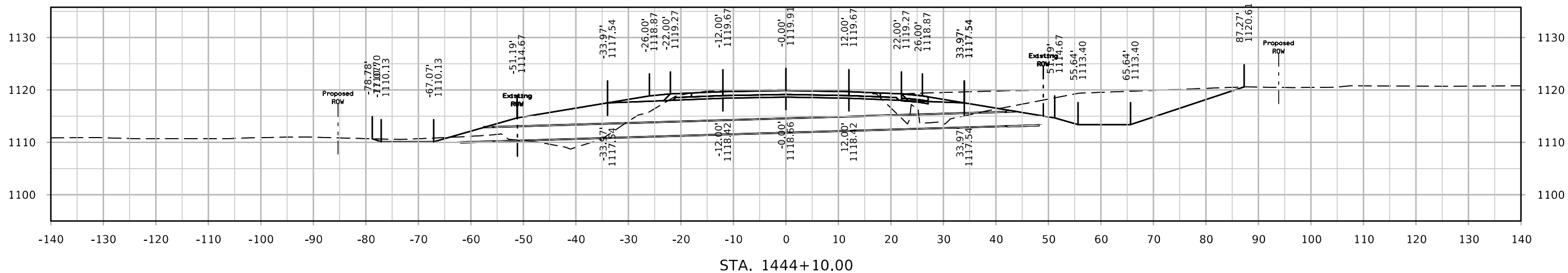






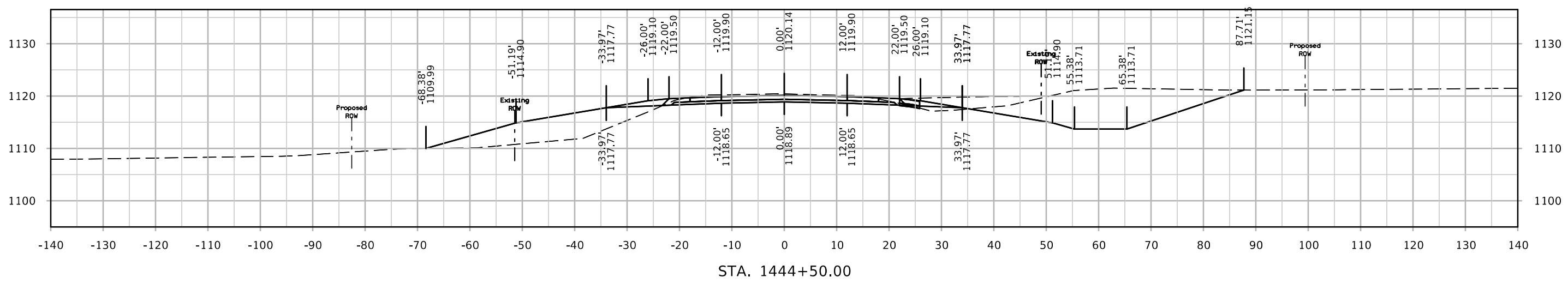
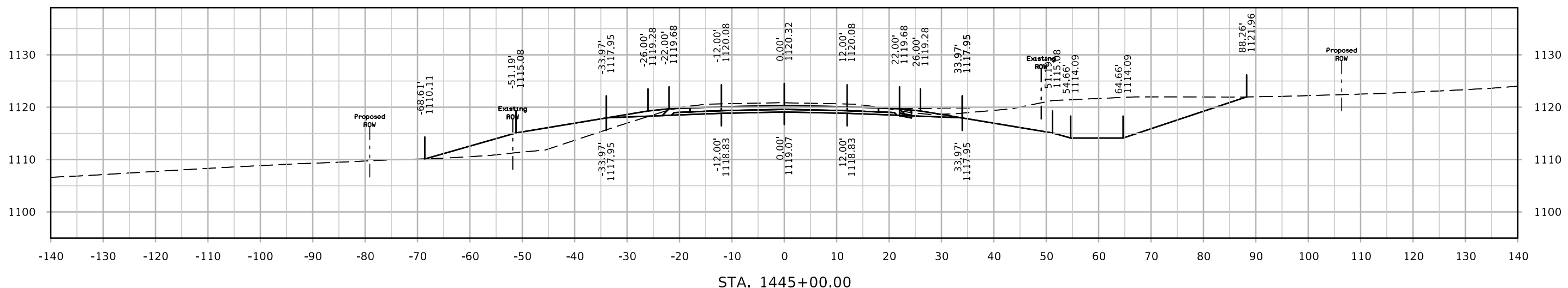
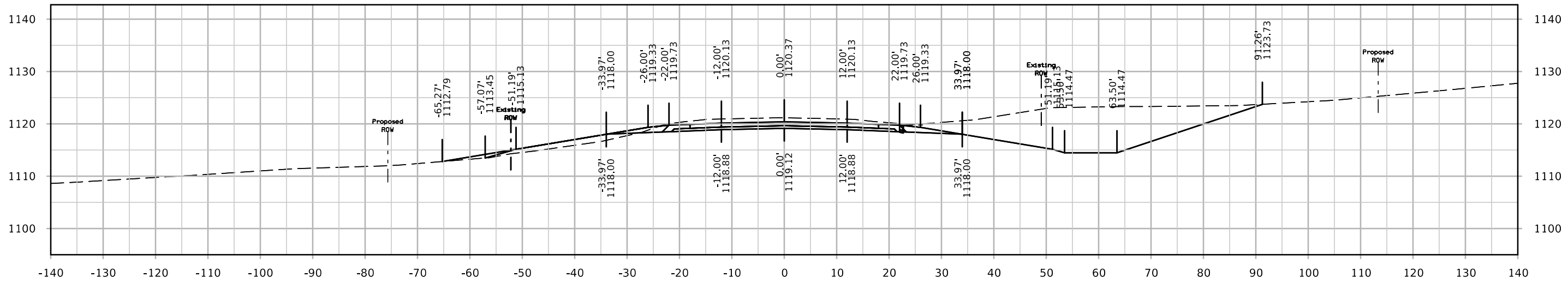


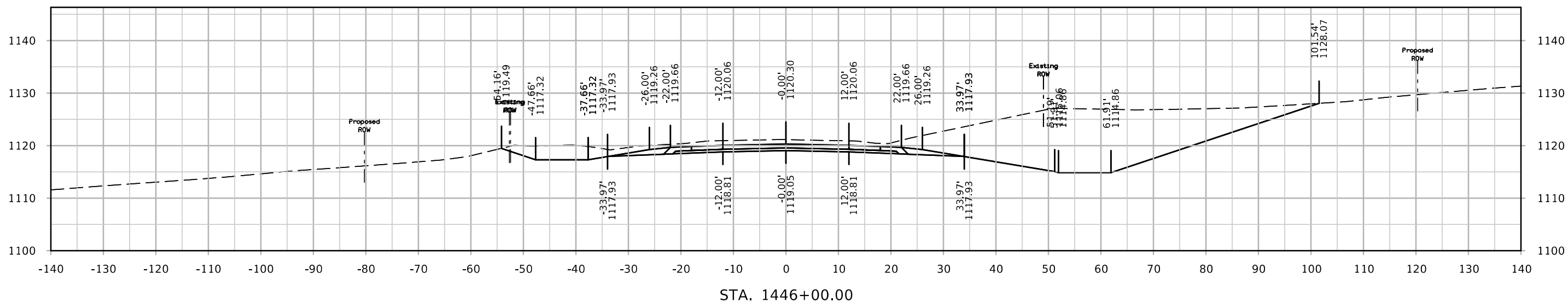
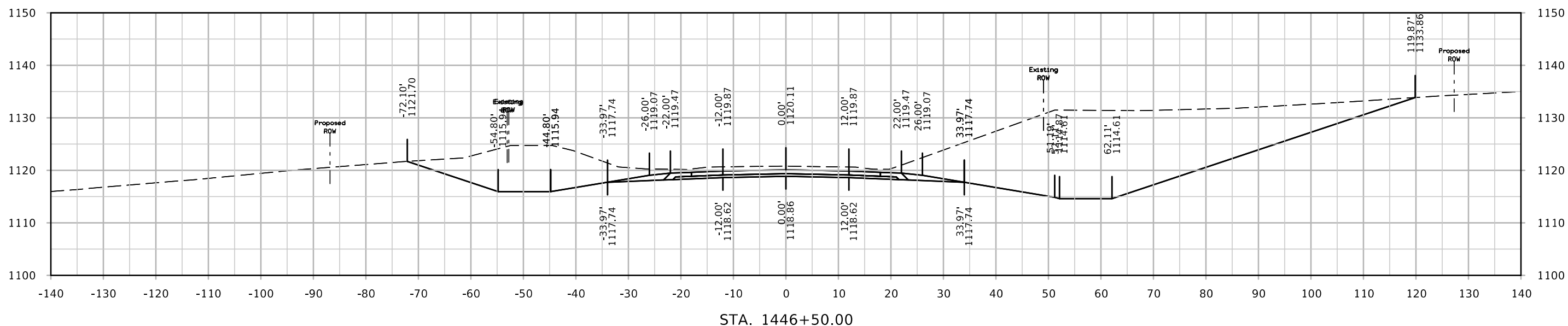


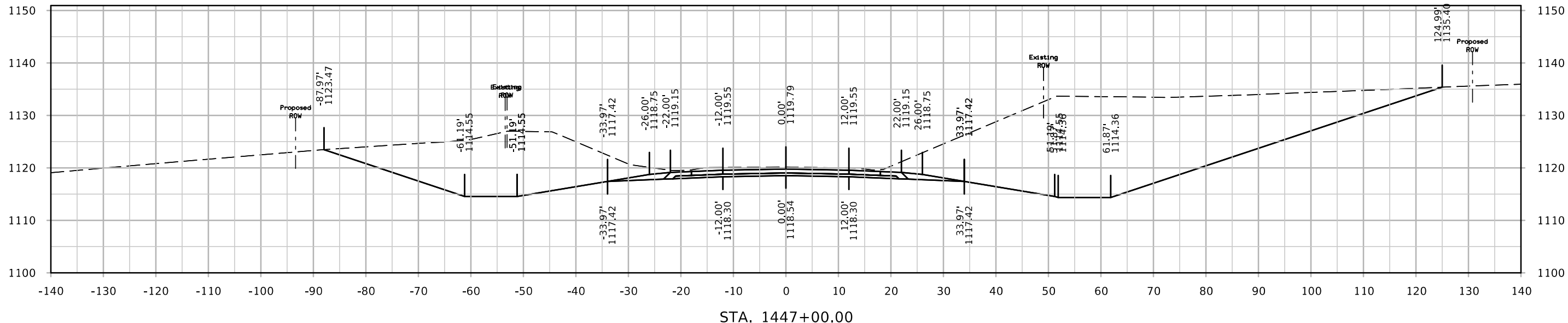
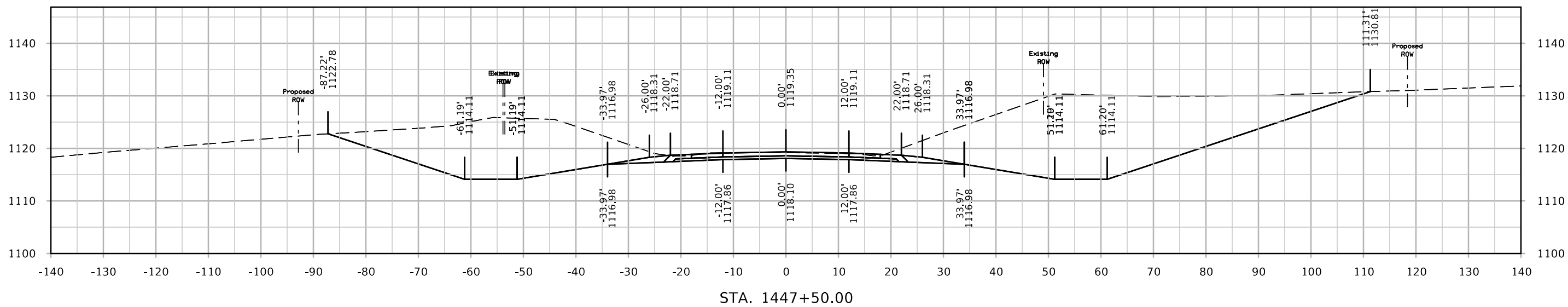


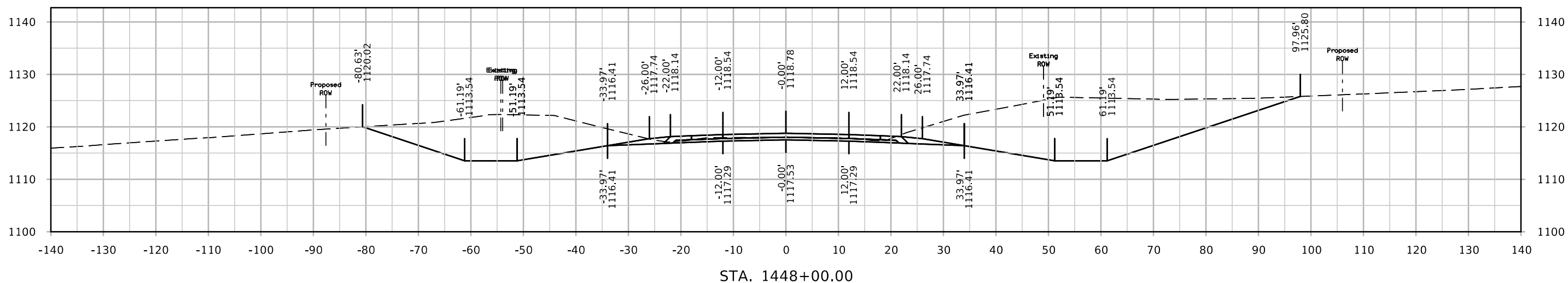
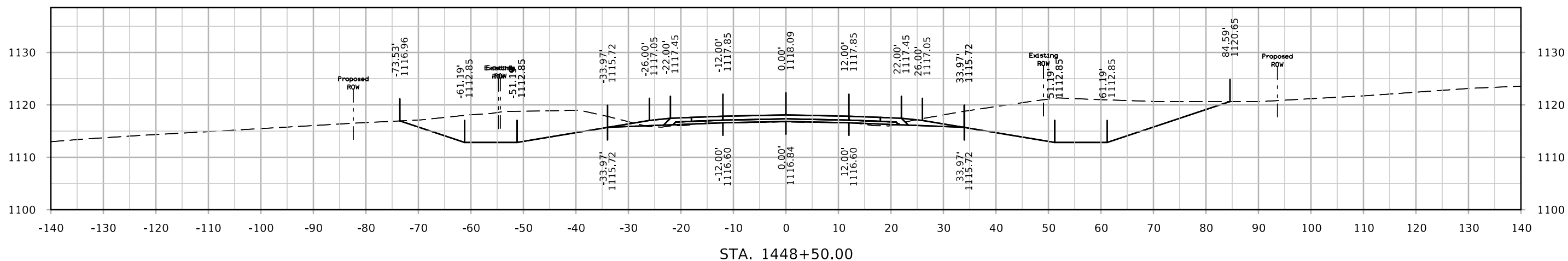
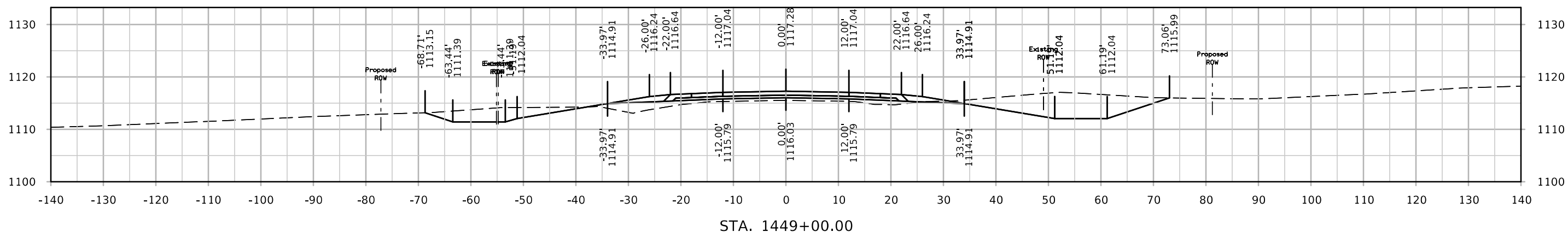


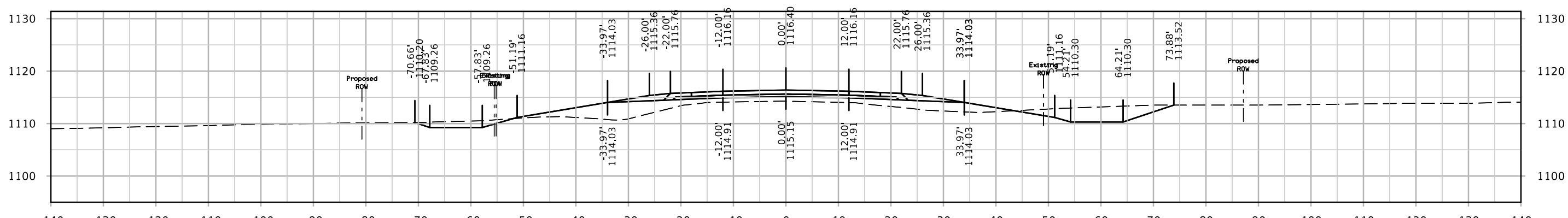
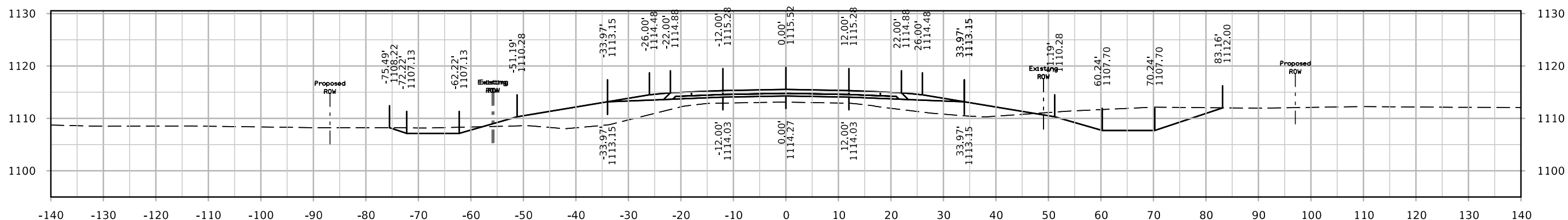
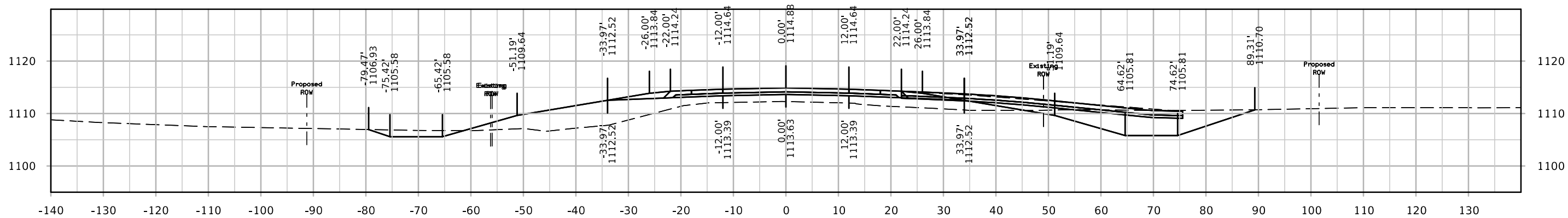
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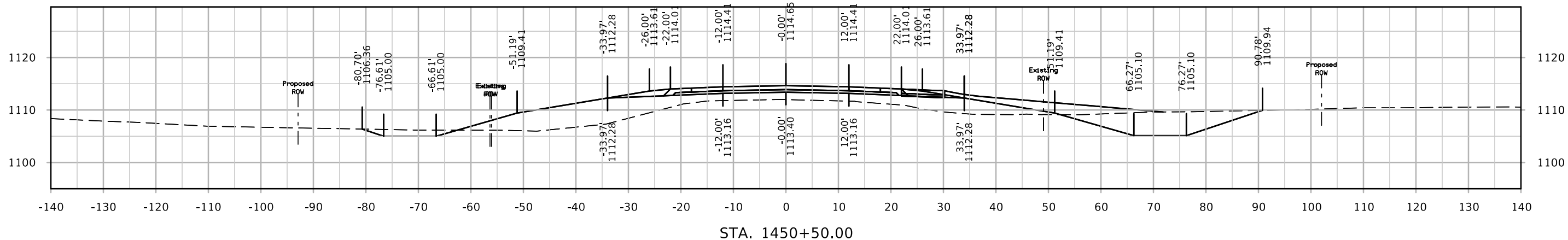
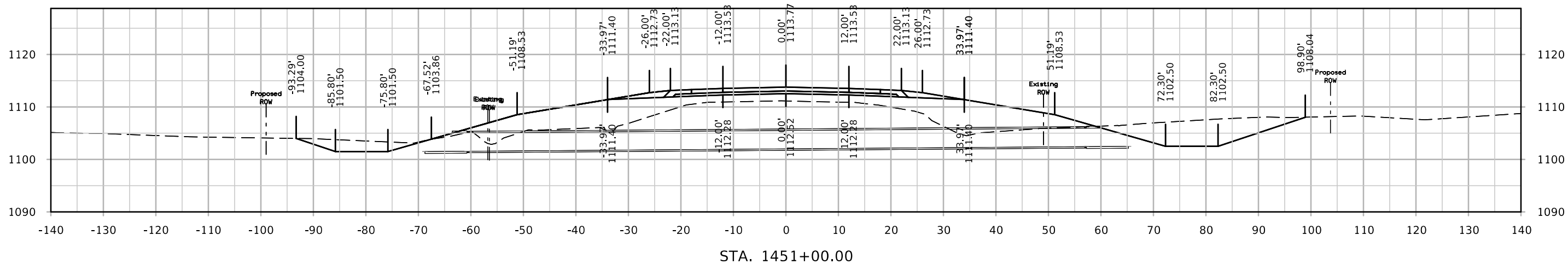


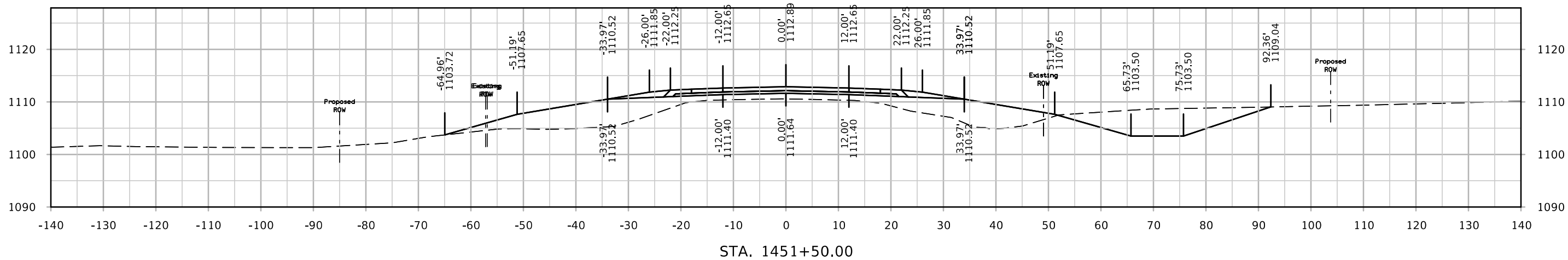
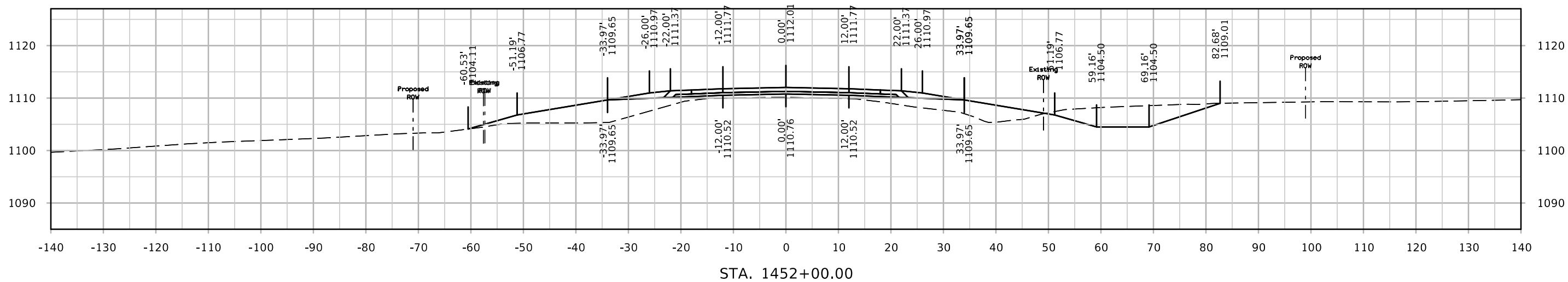
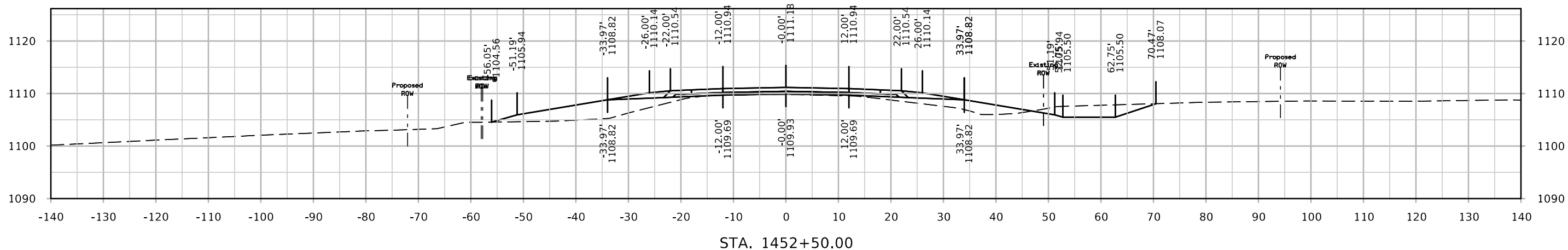


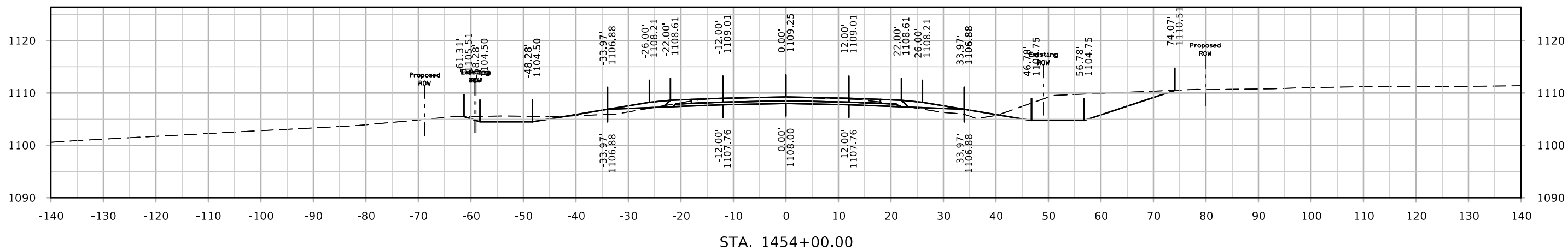




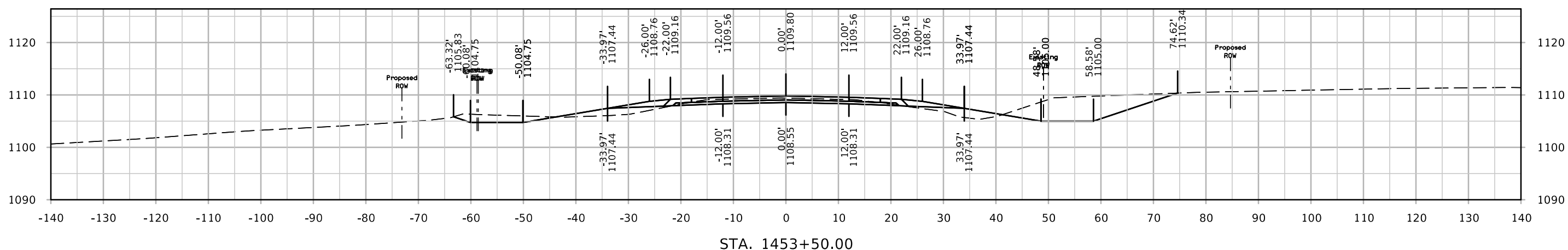




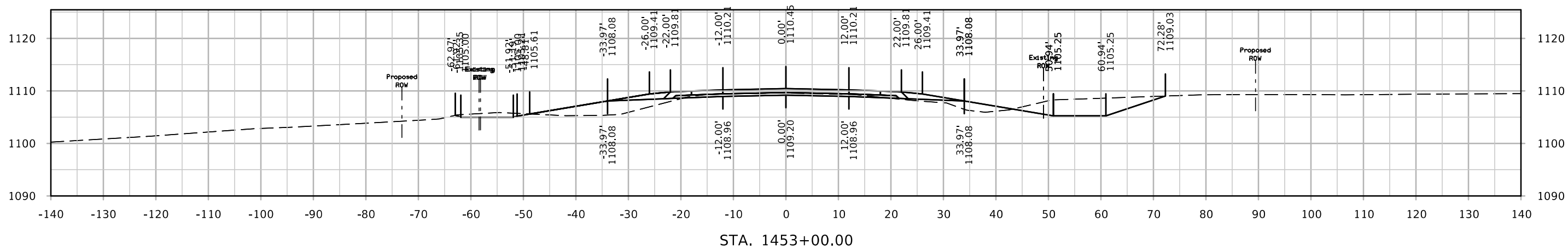




STA. 1454+00.00

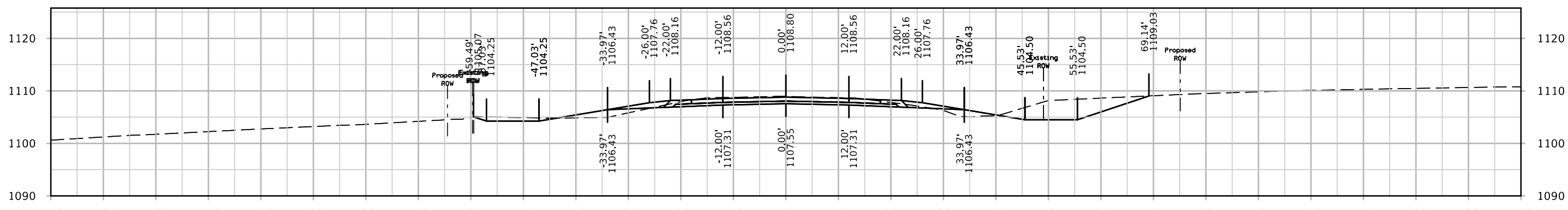
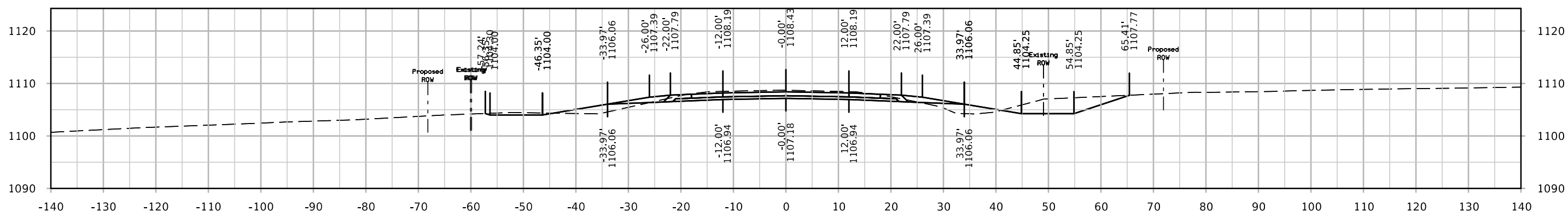
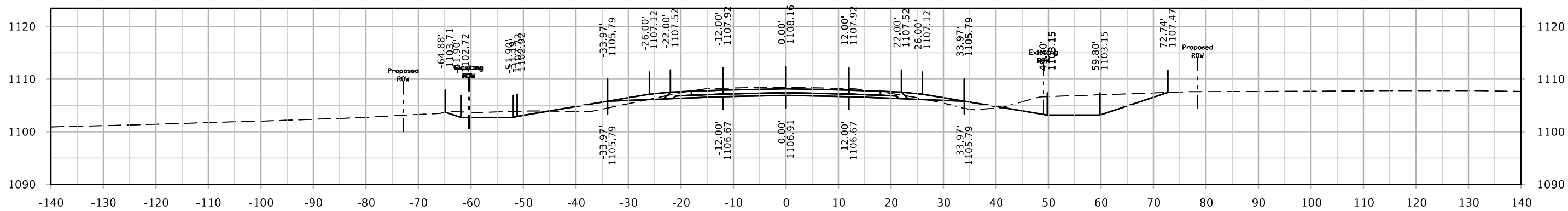


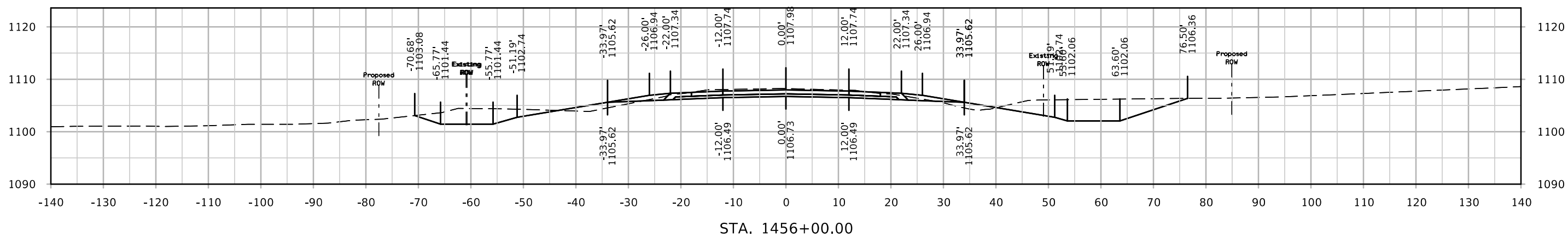
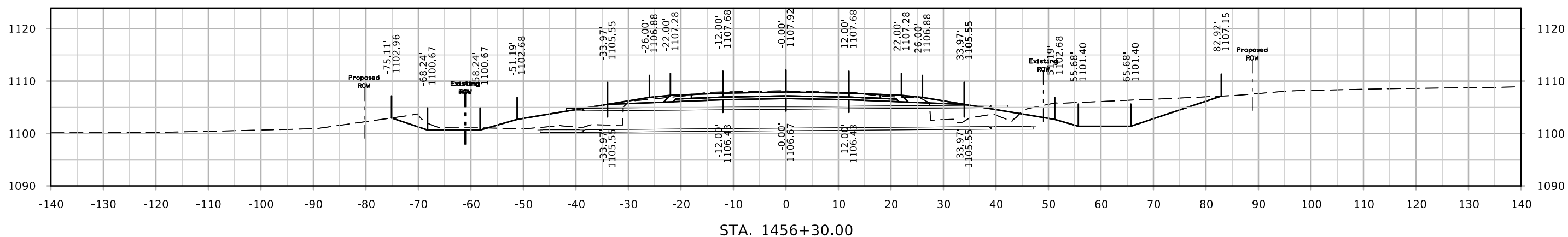
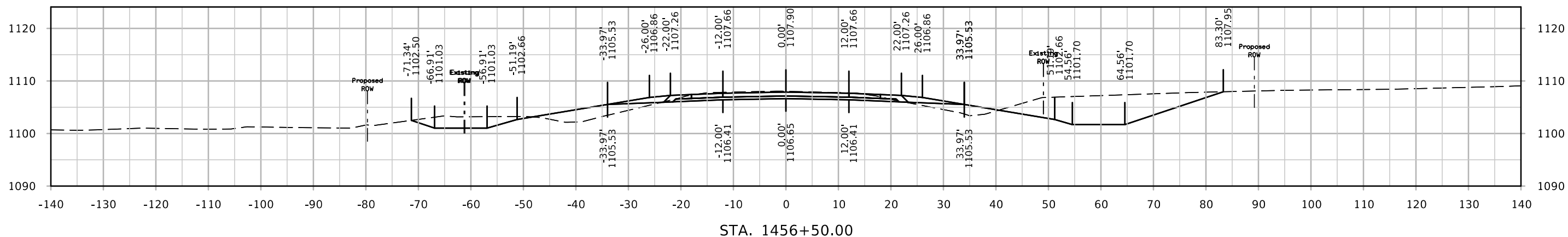
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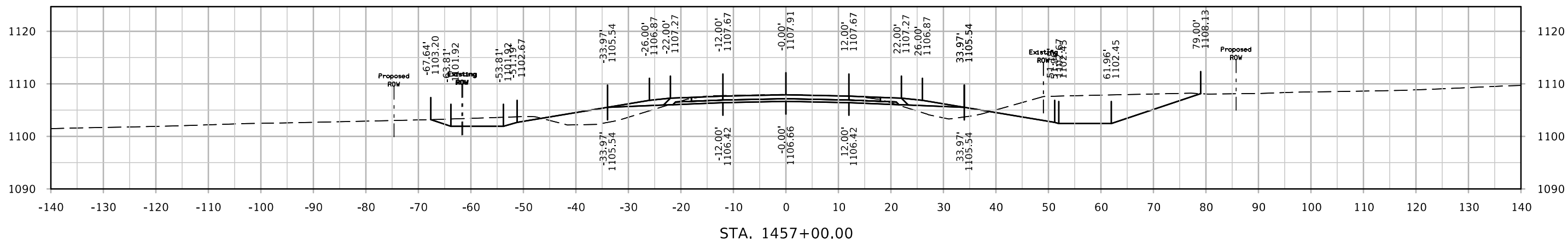
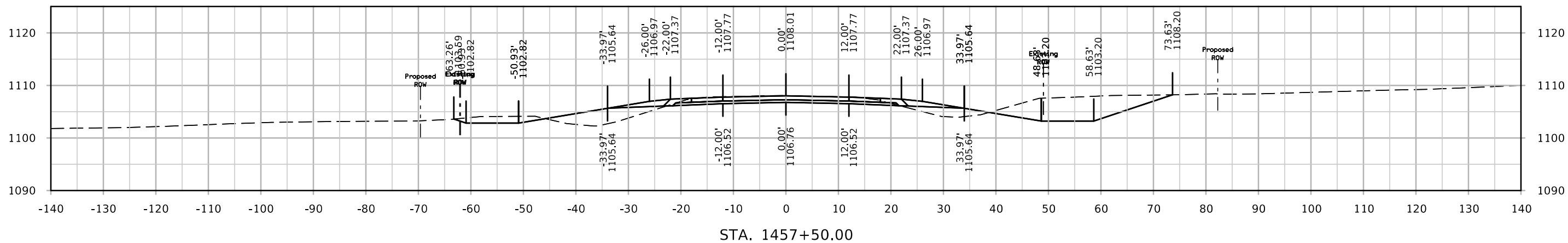
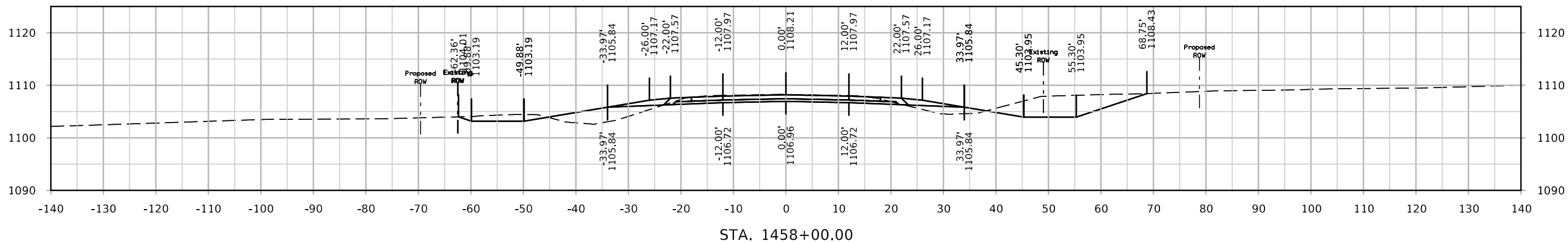


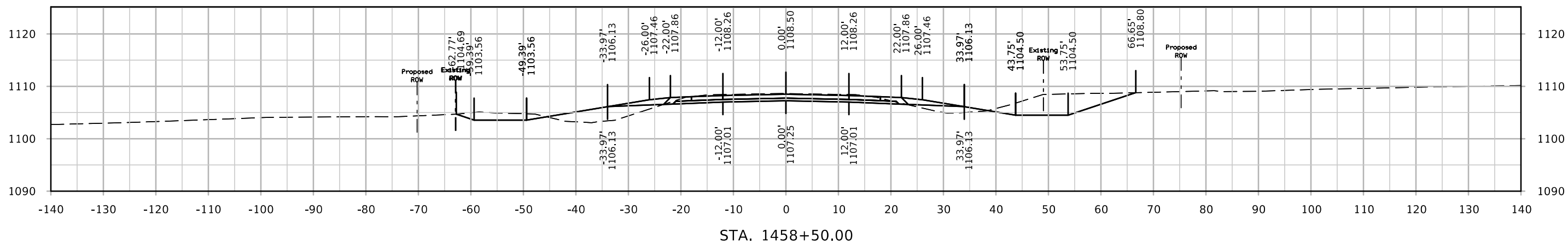
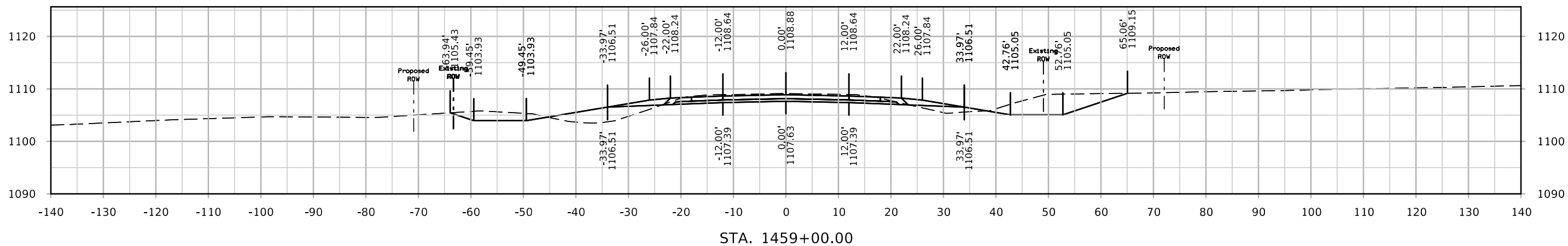
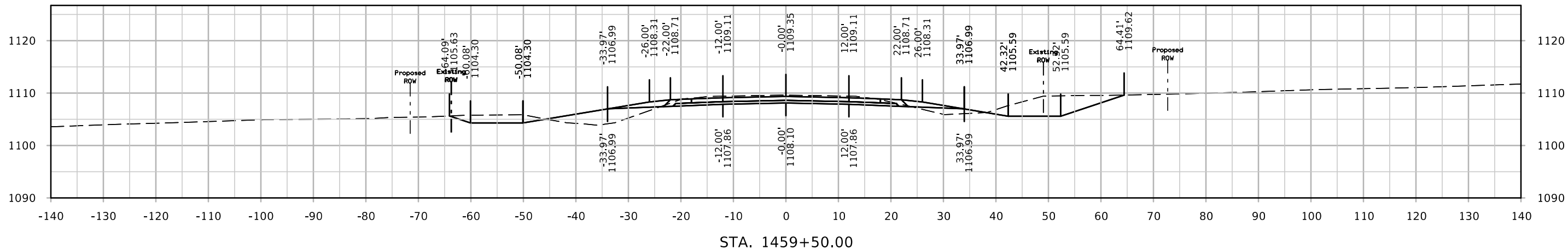
STA. 1453+00.00

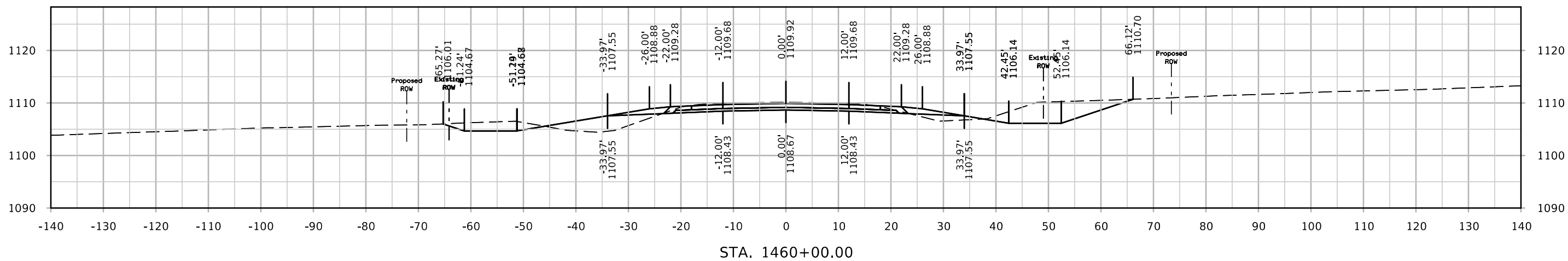
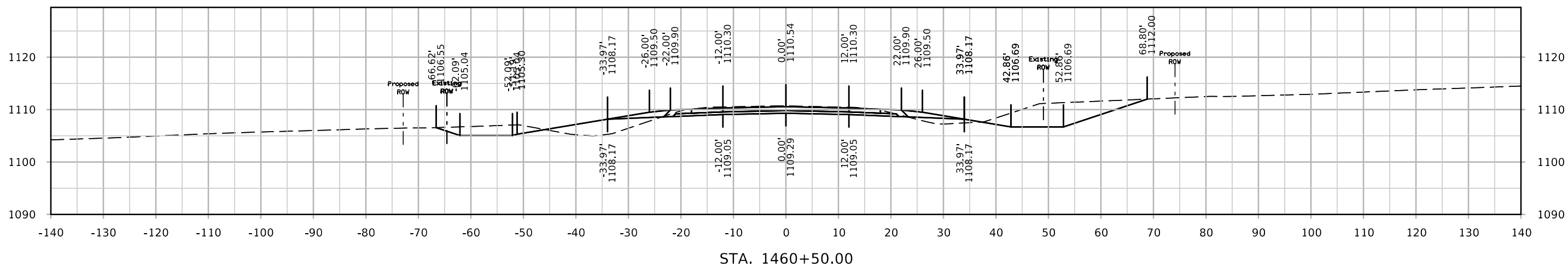
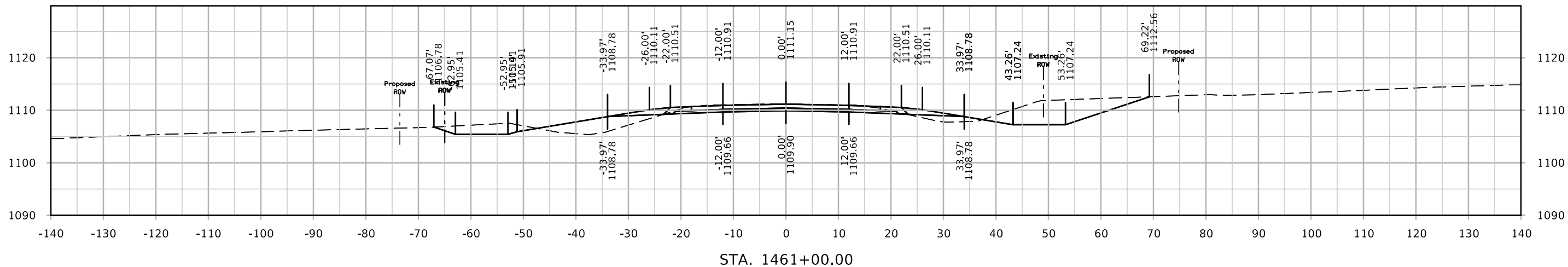


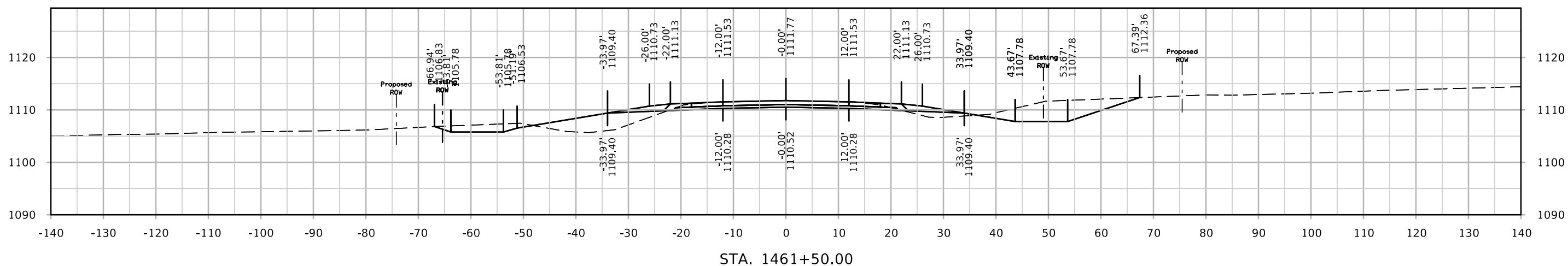
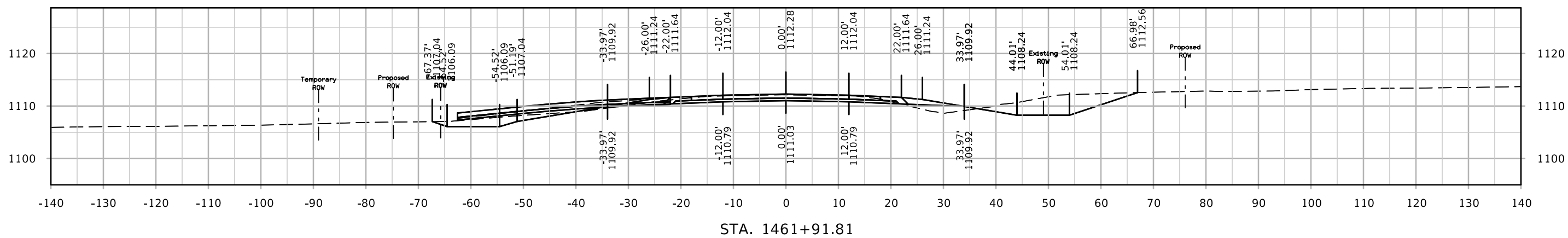
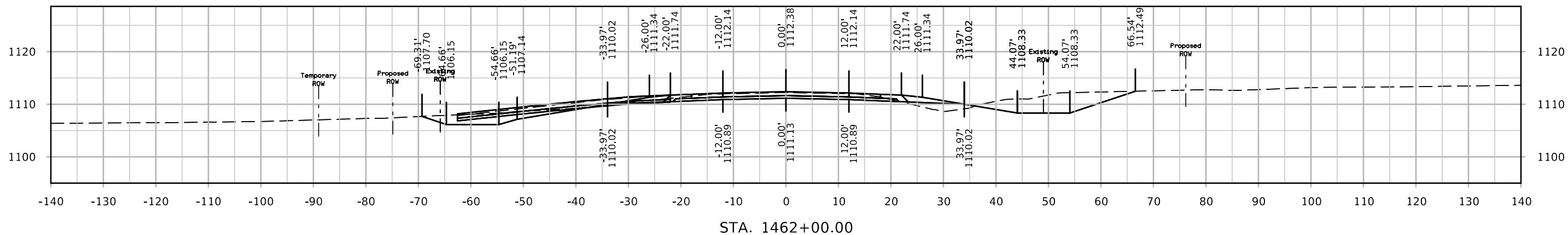


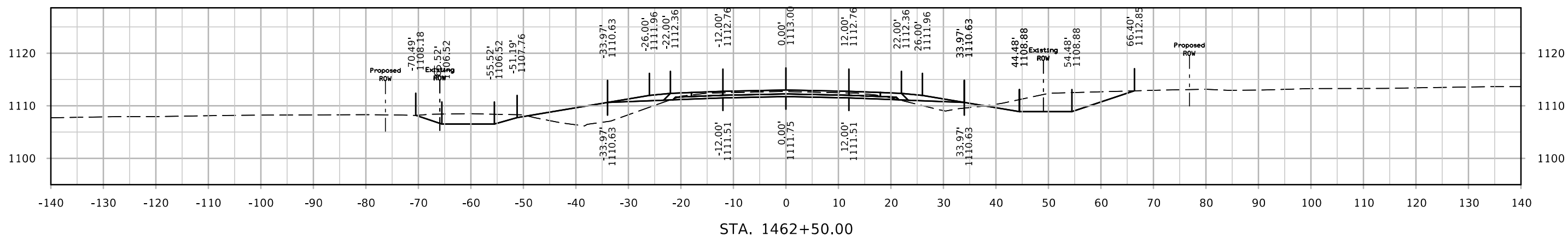
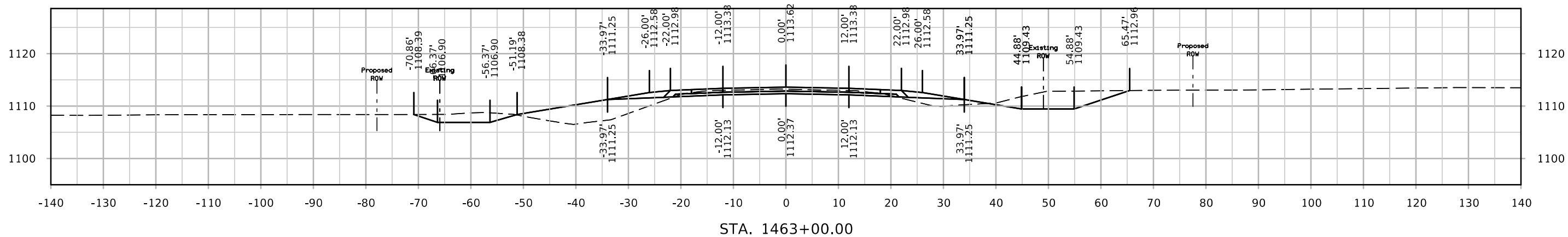
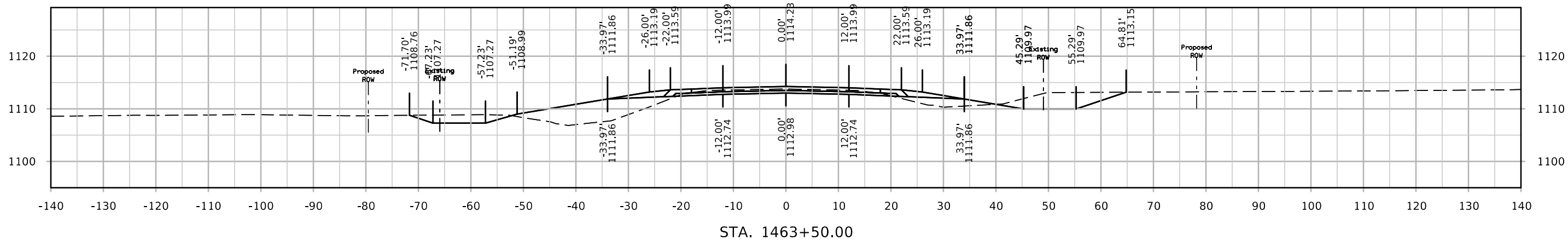


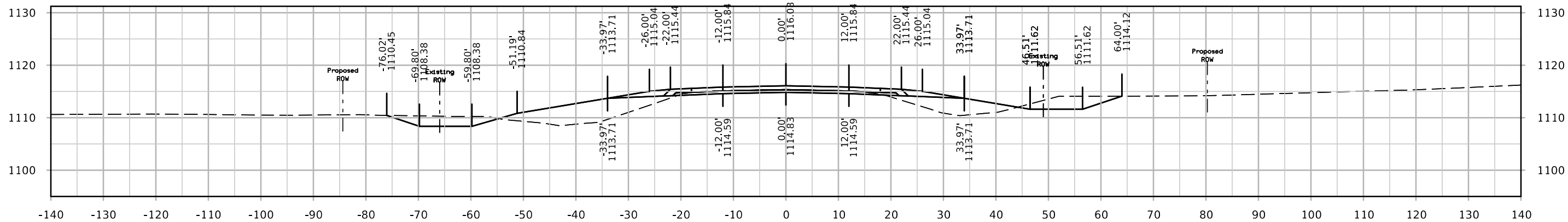




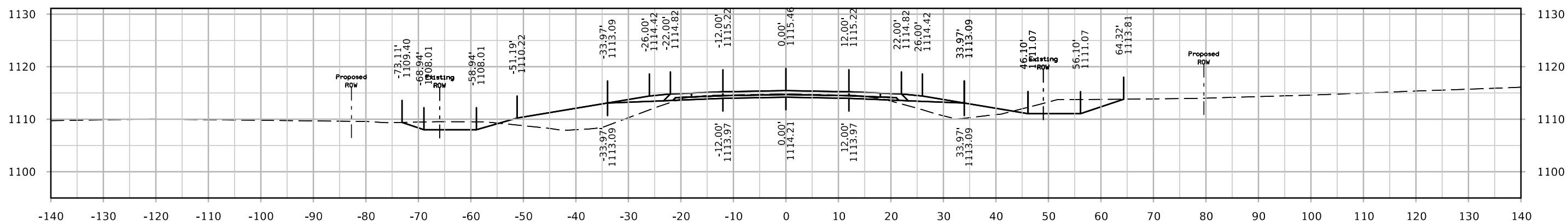




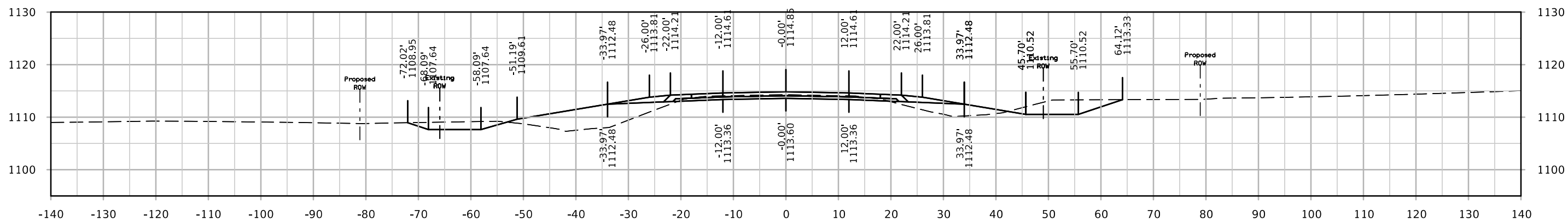




STA. 1465+00.00

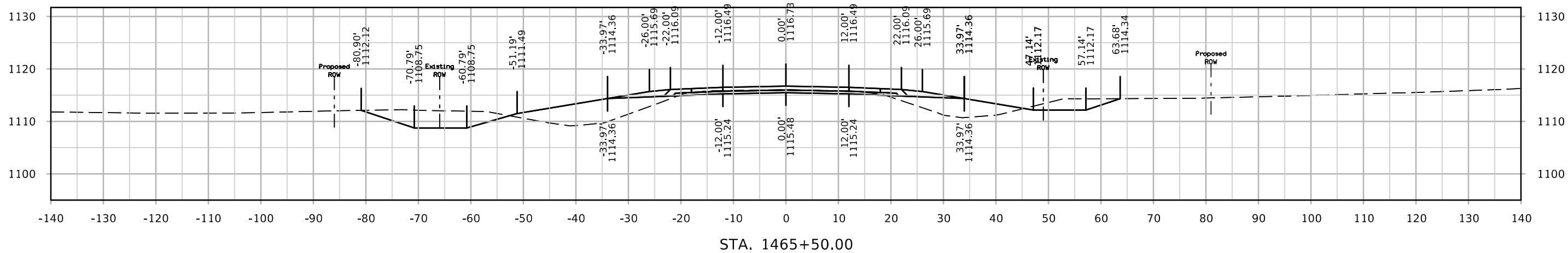
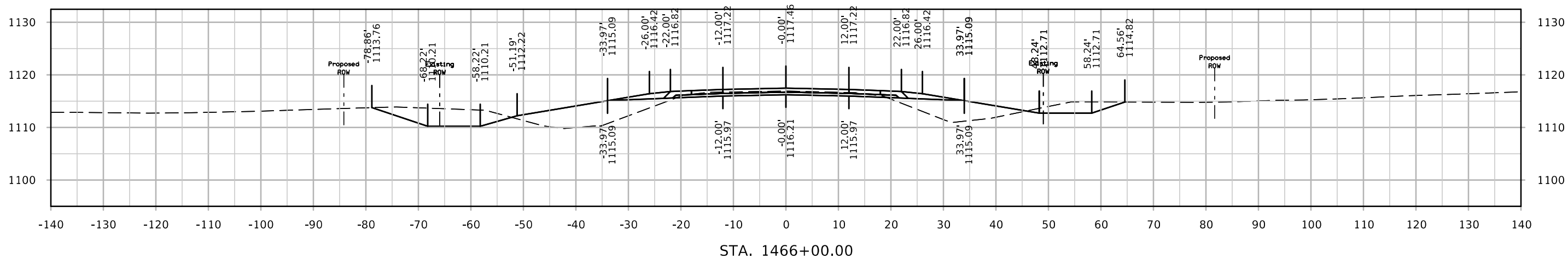
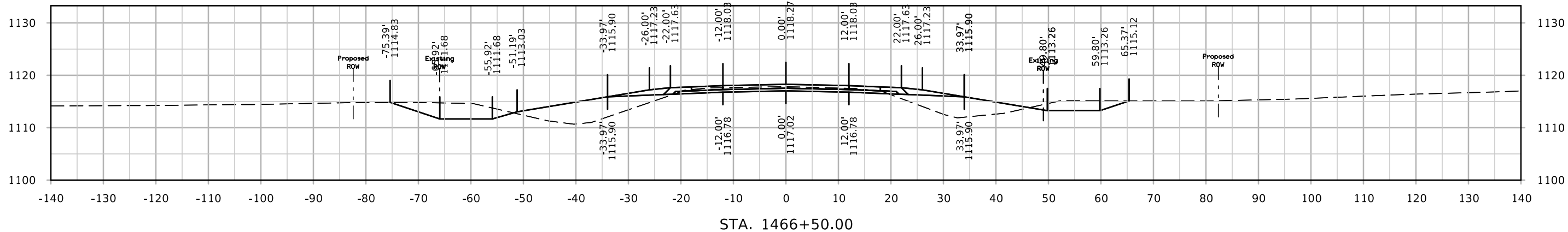


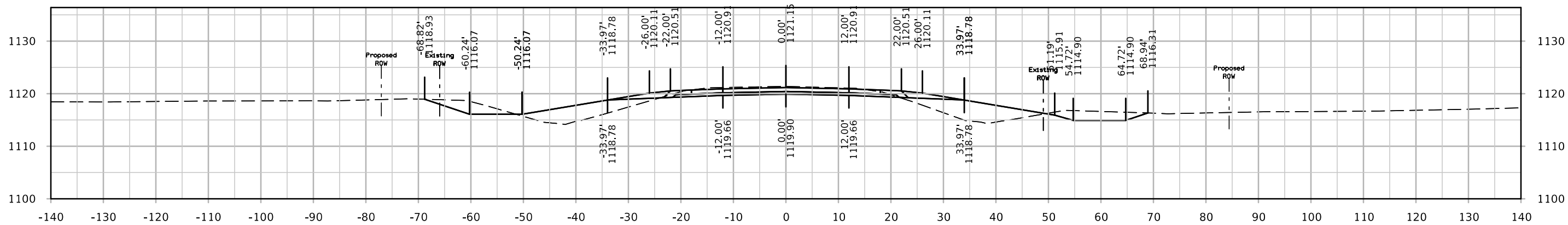
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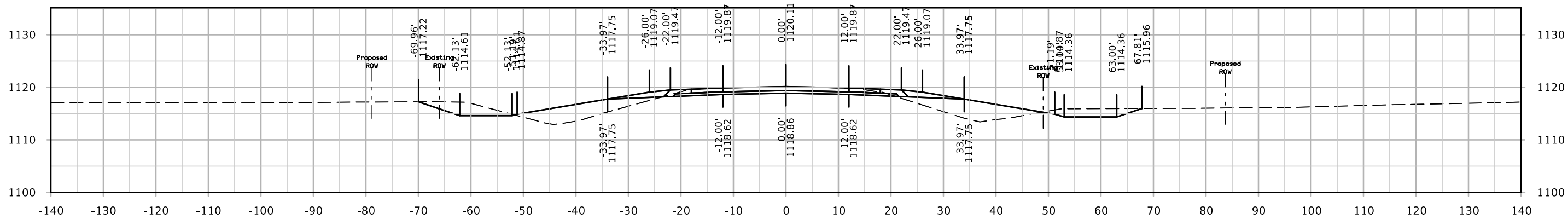
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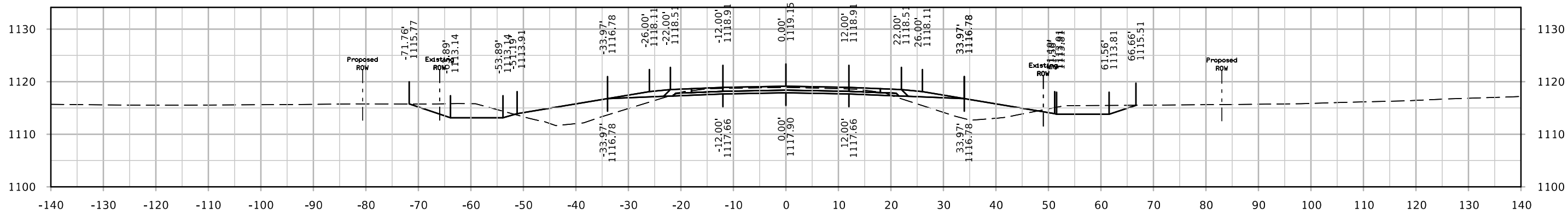




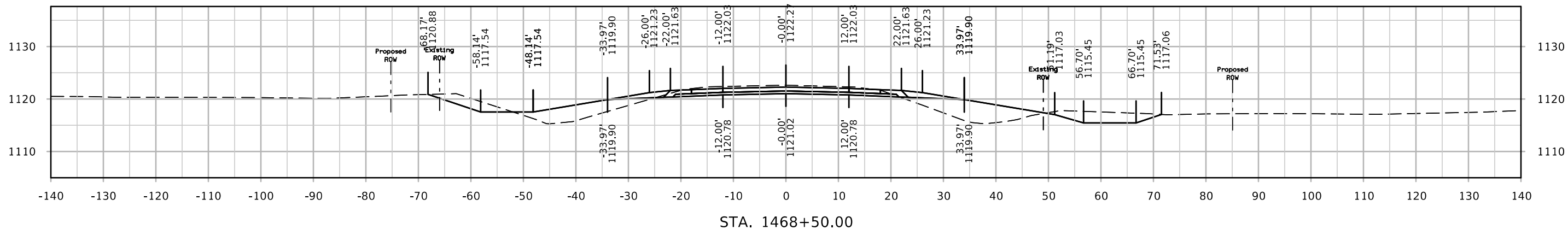
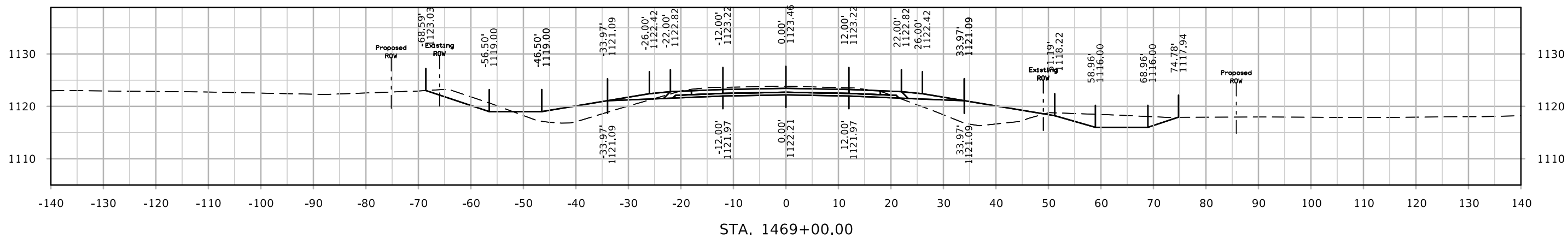
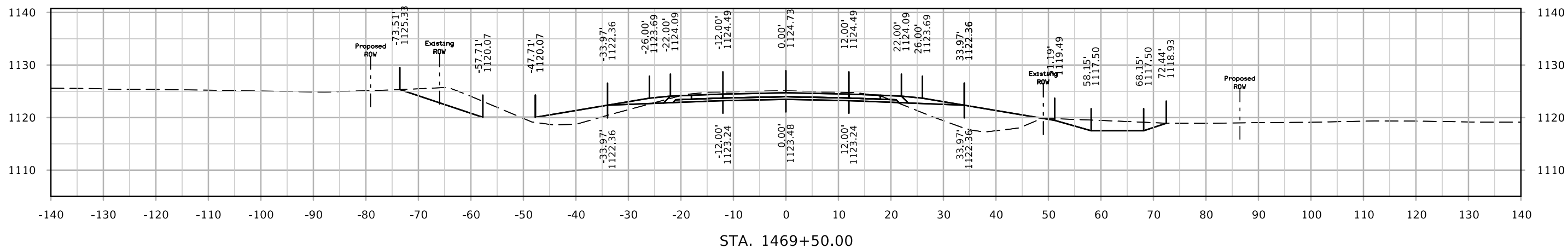
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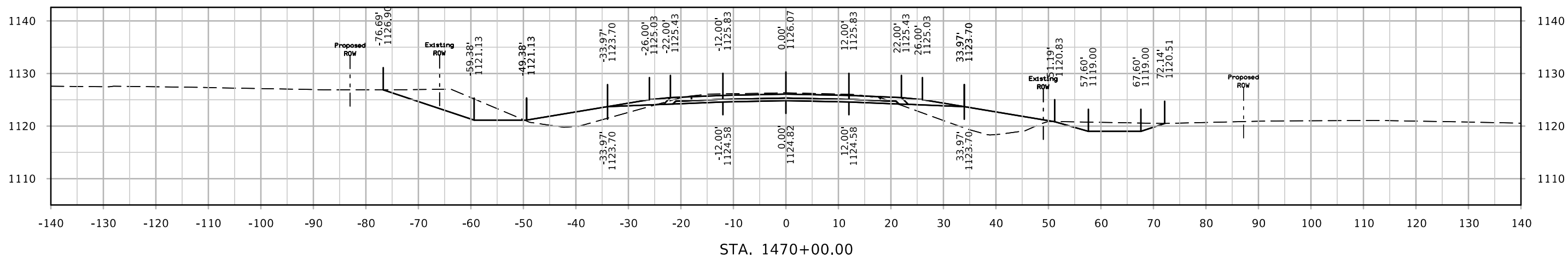
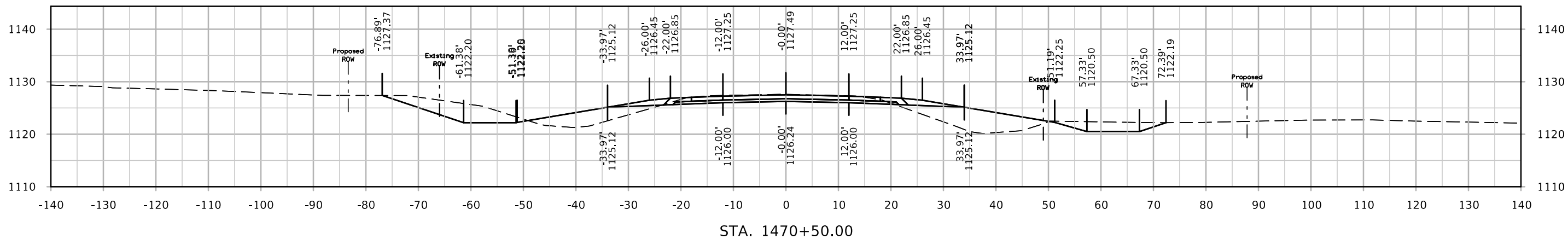
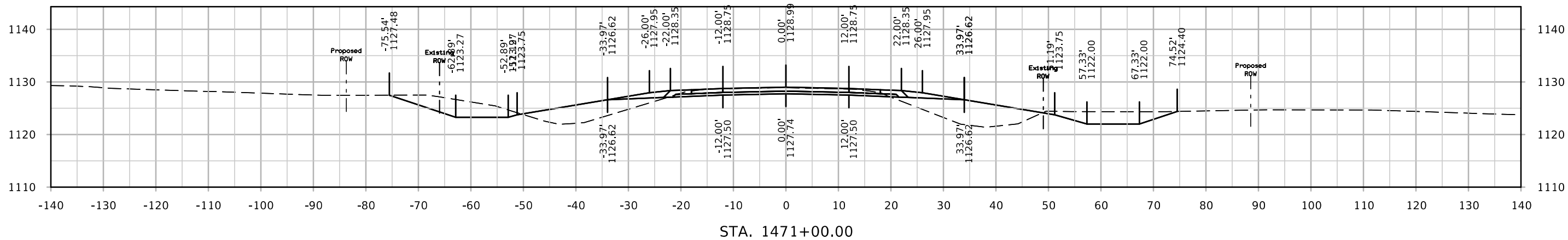


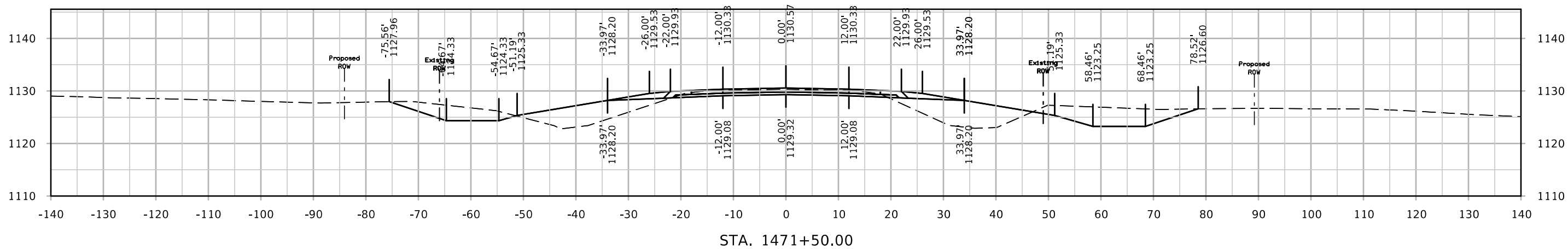
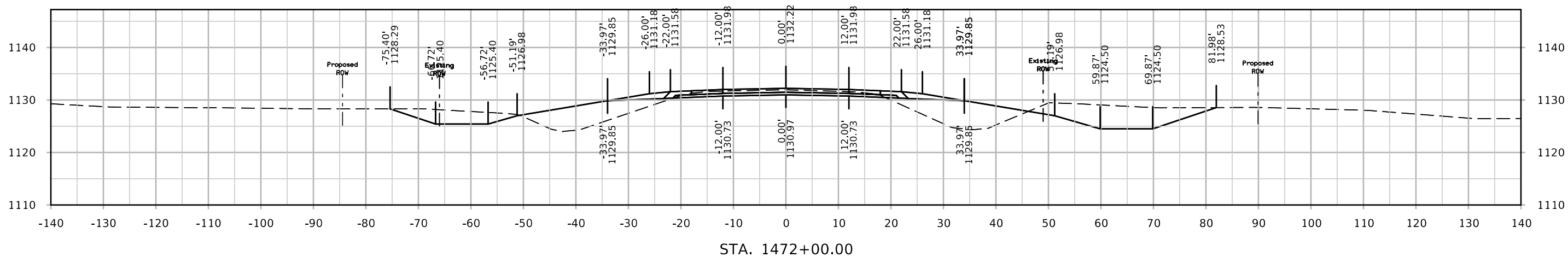
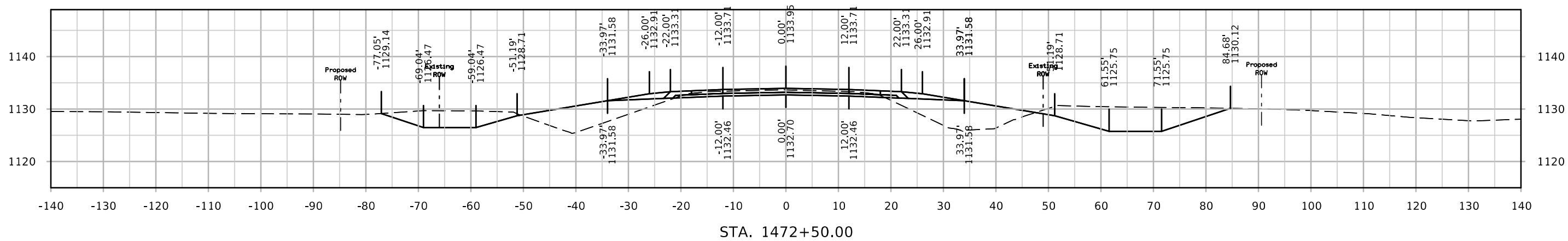
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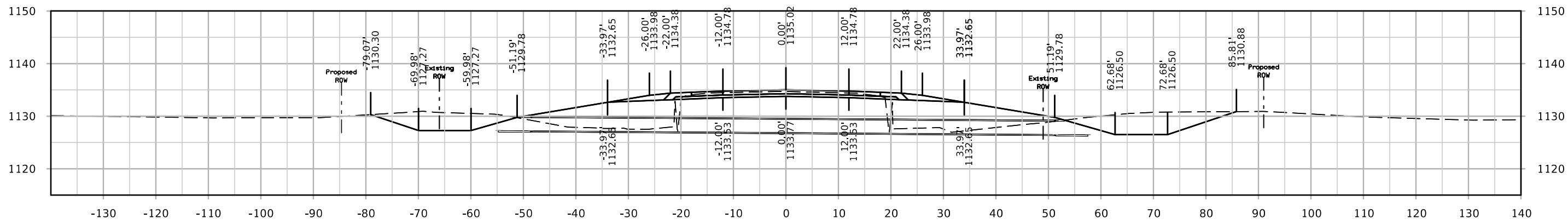
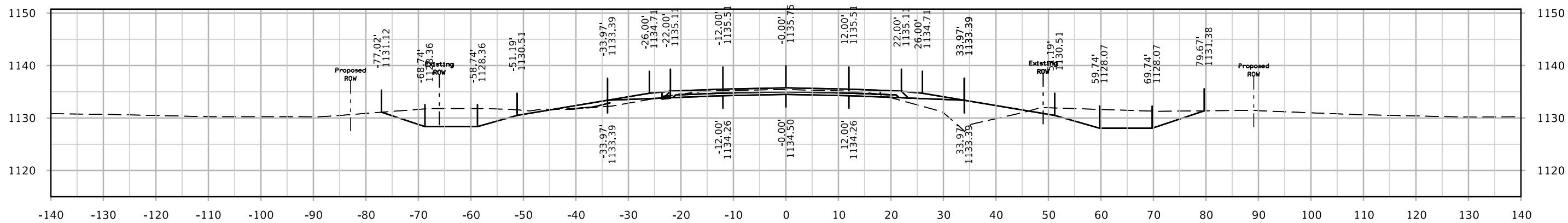
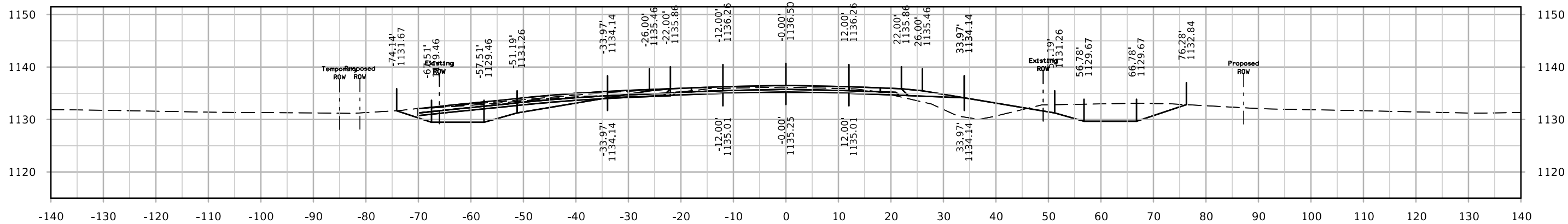


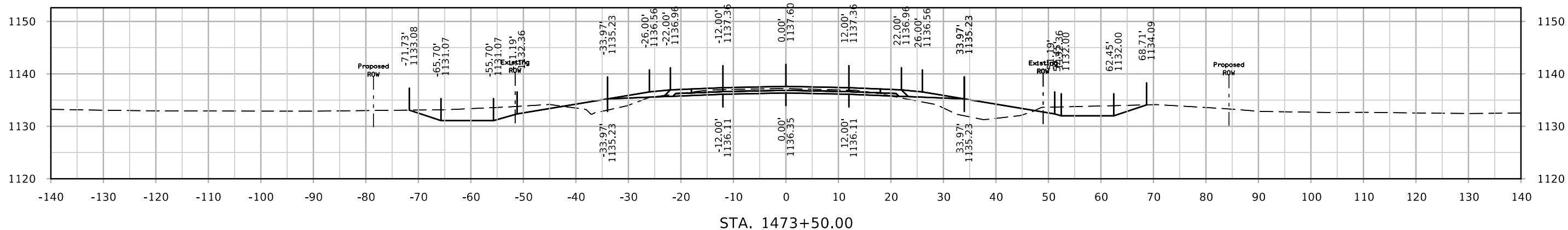
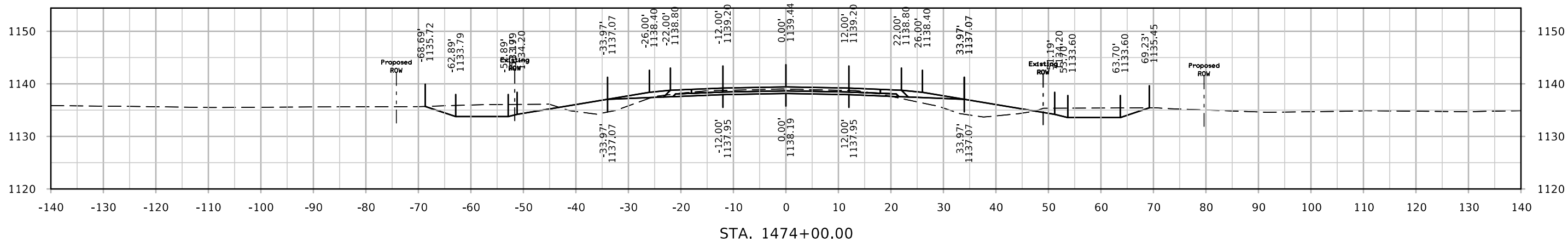
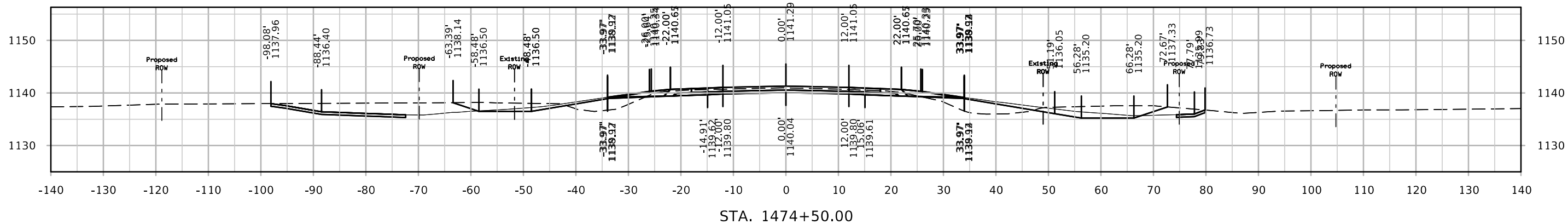
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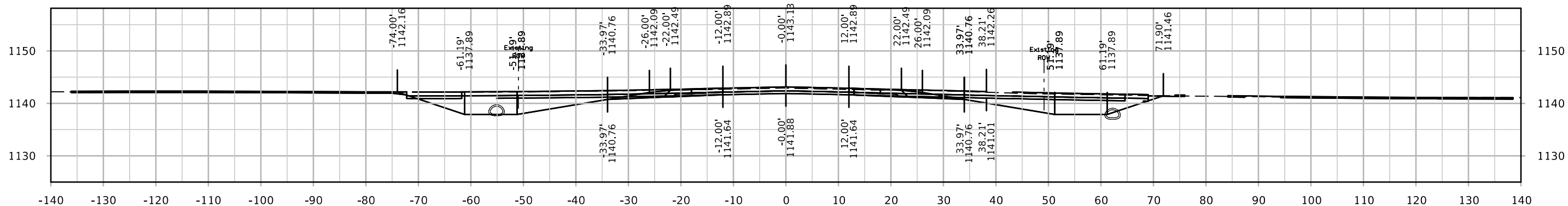
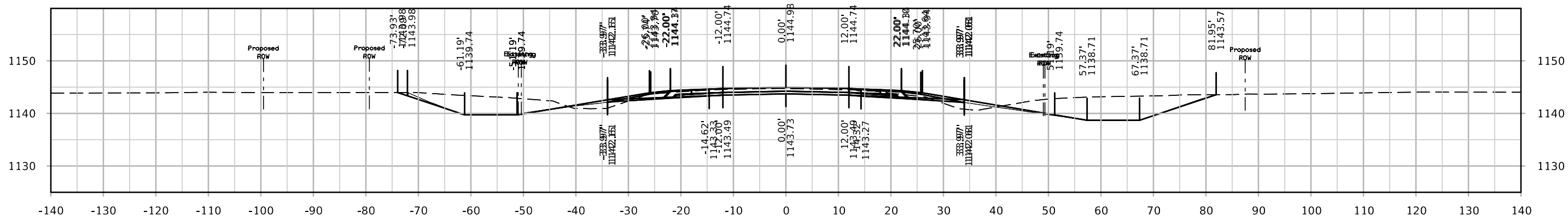
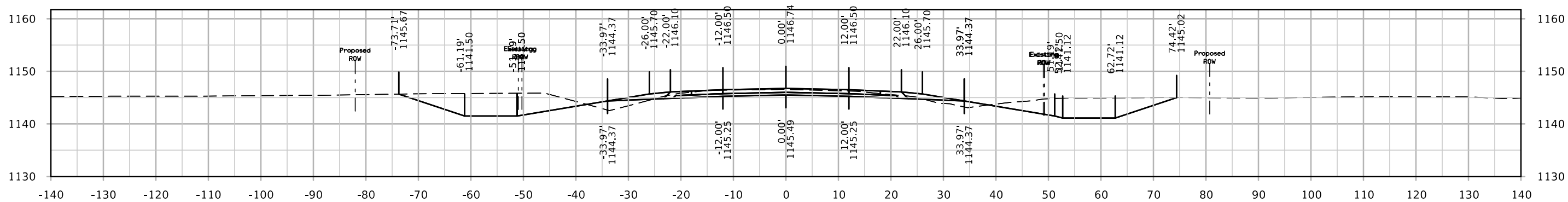




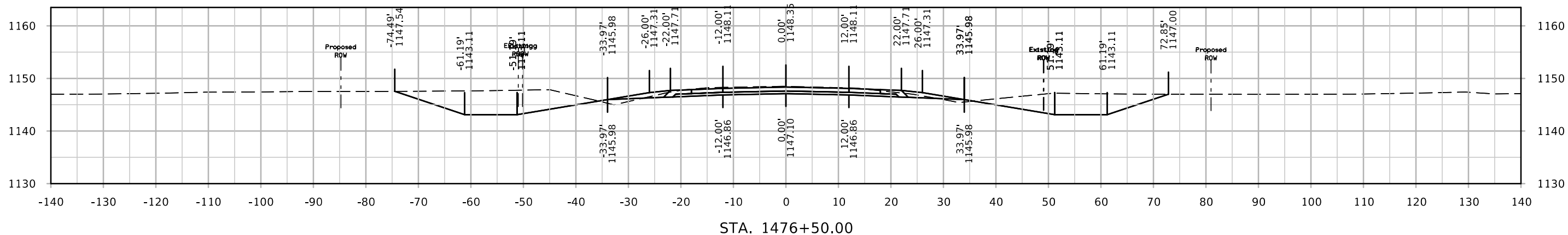
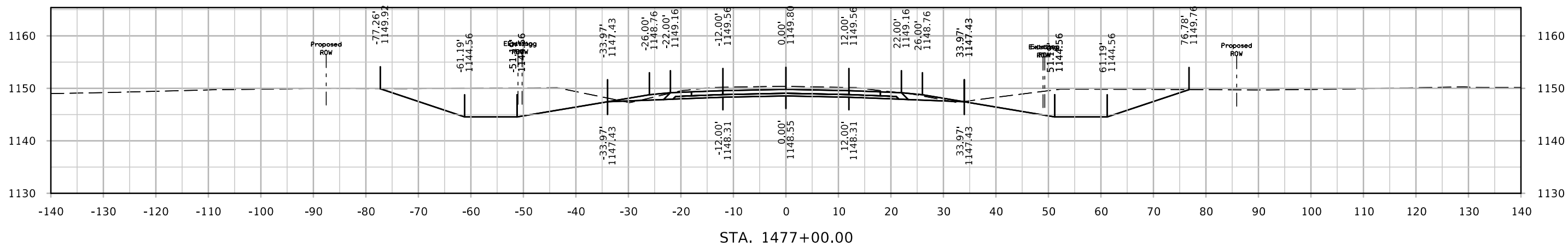
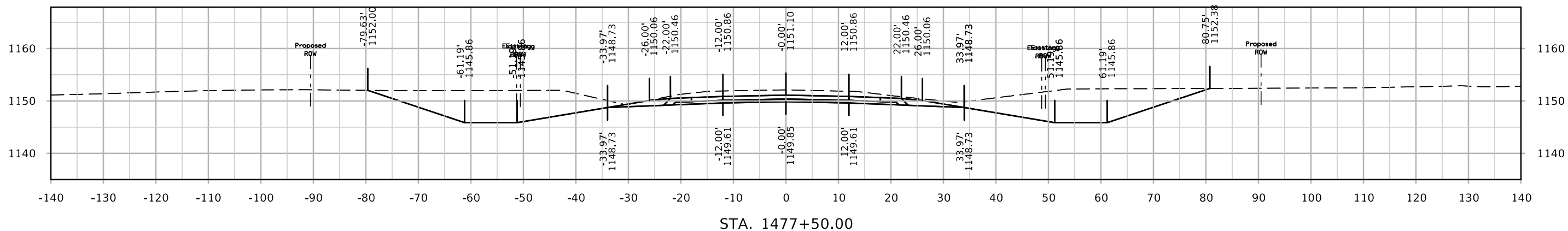


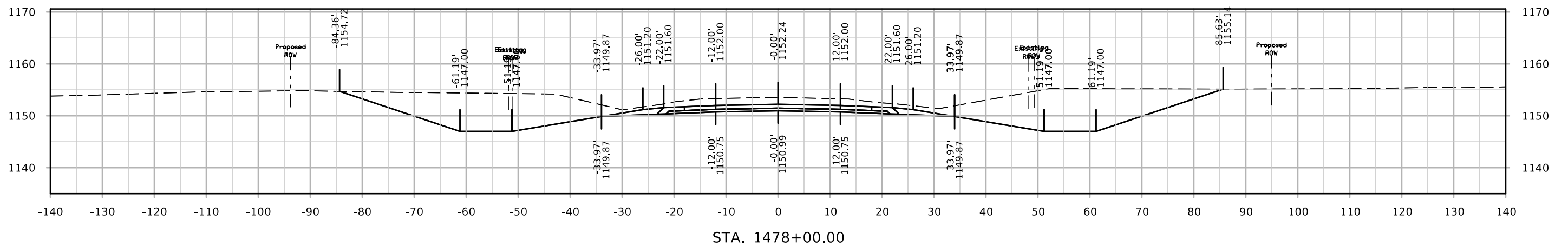
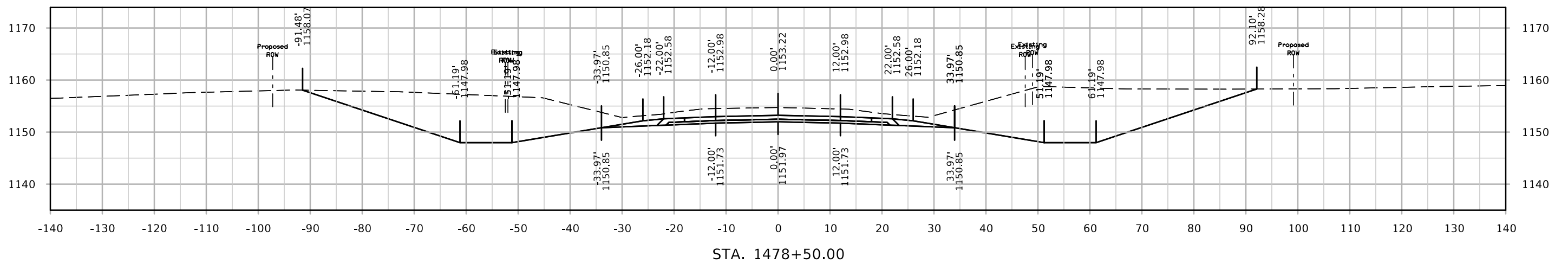
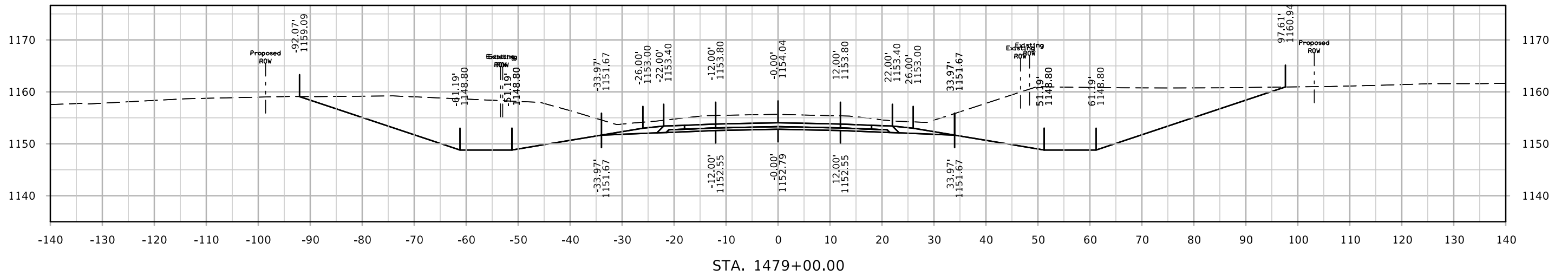


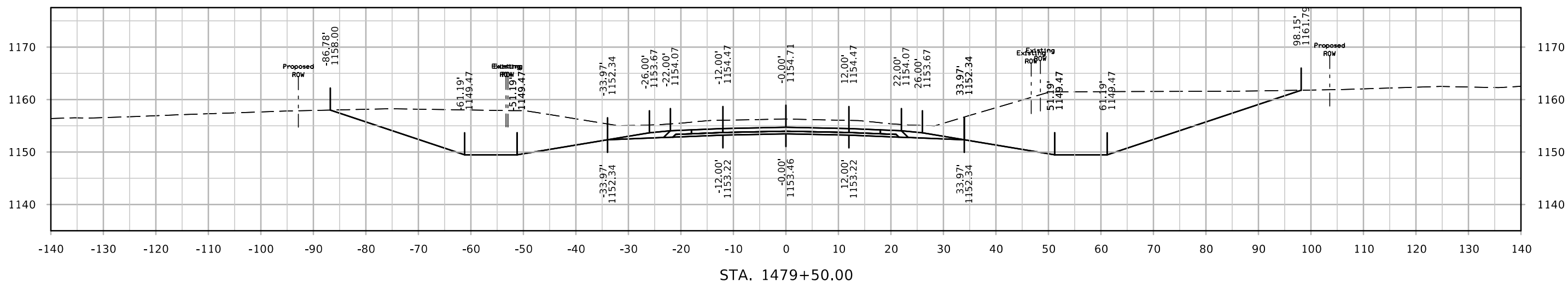
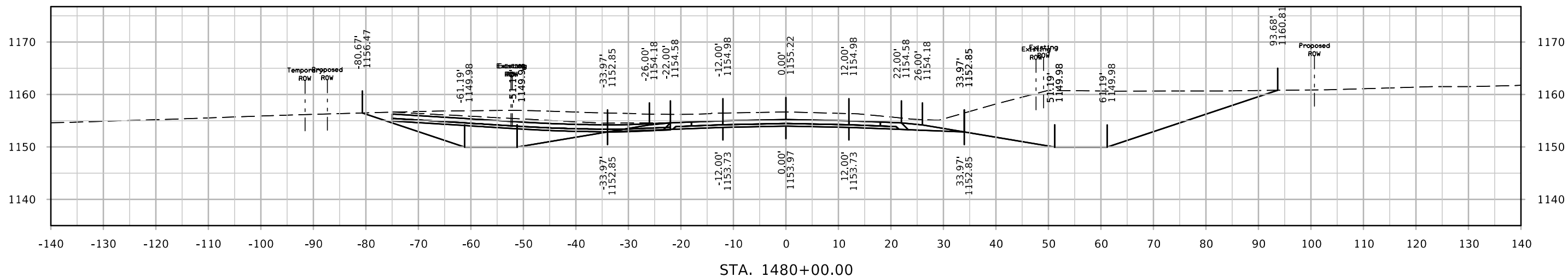
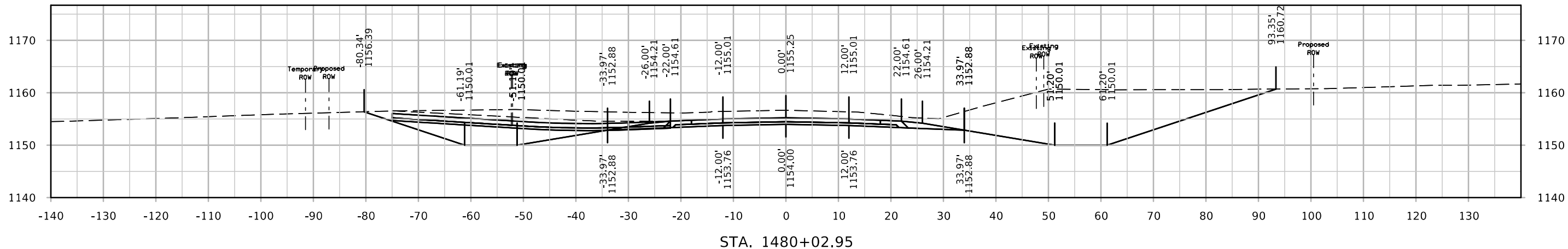


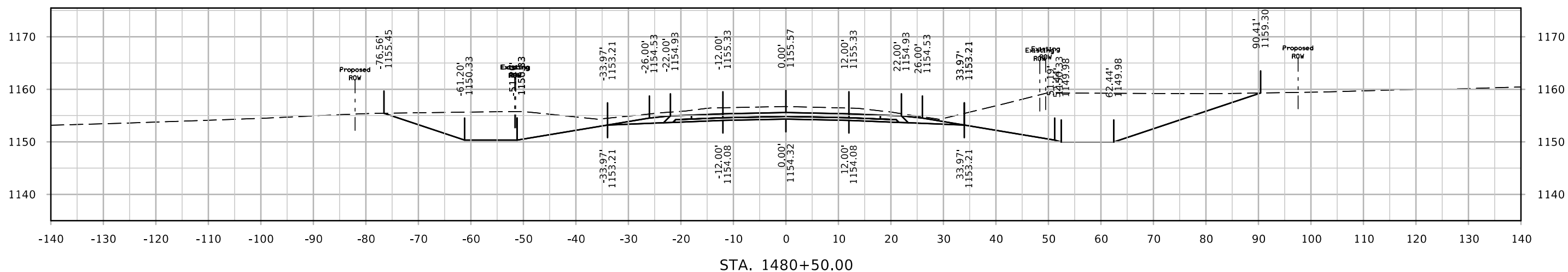
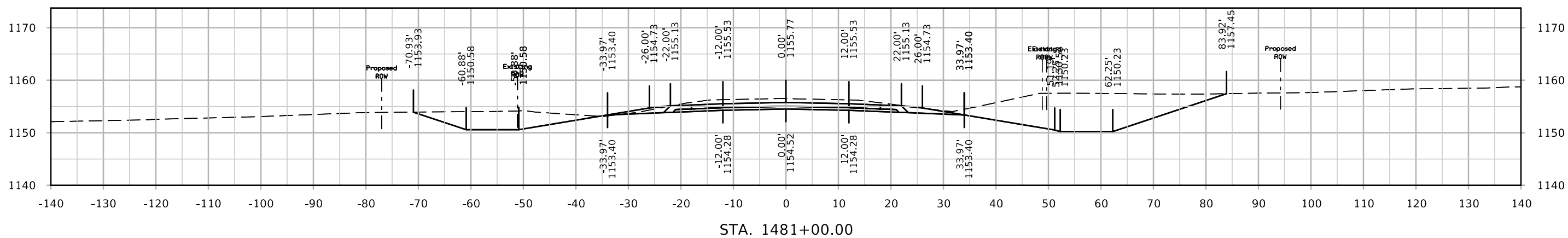
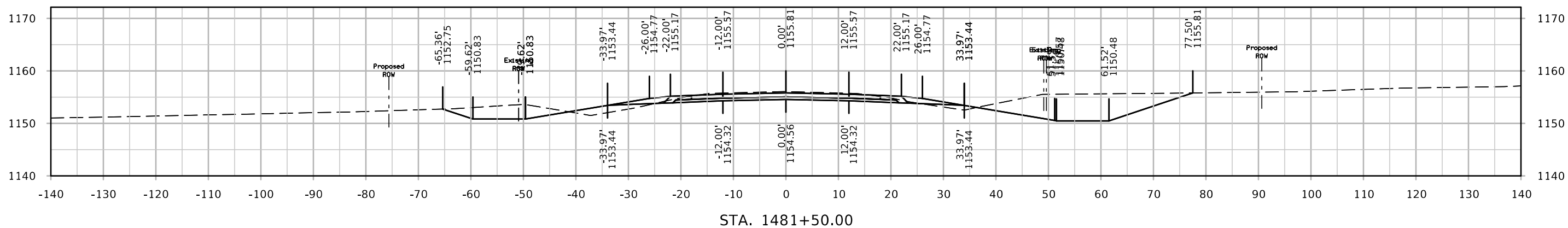


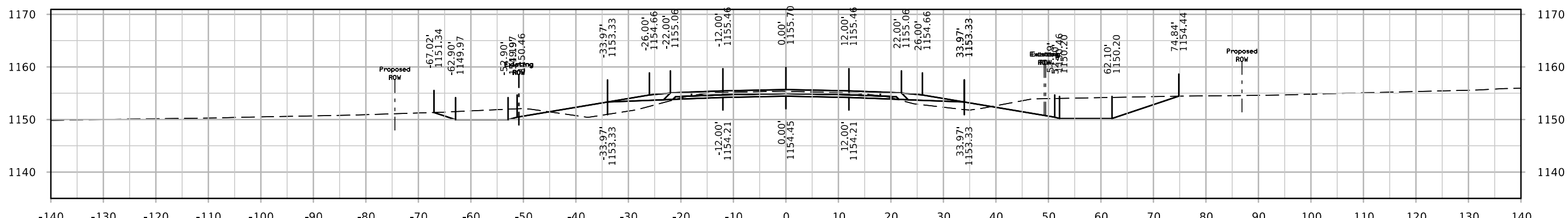
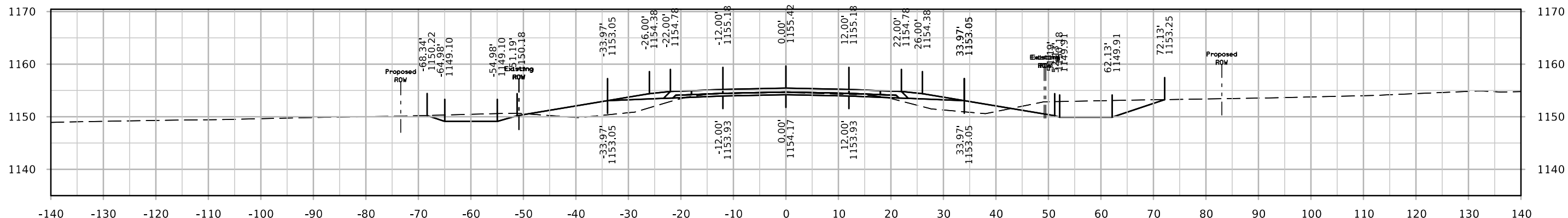
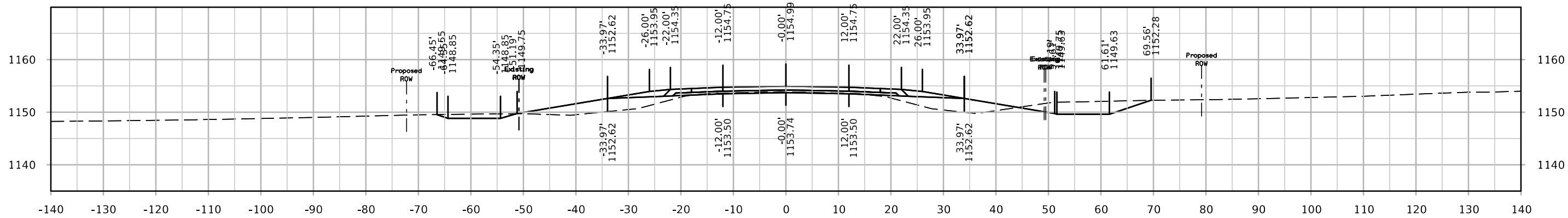


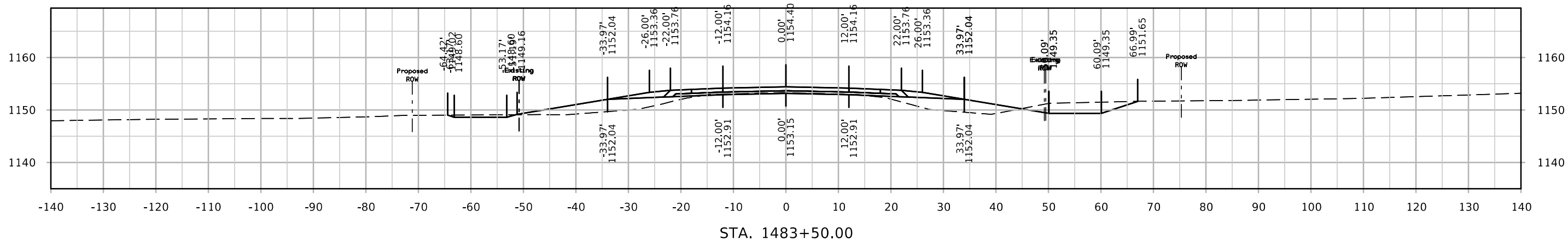
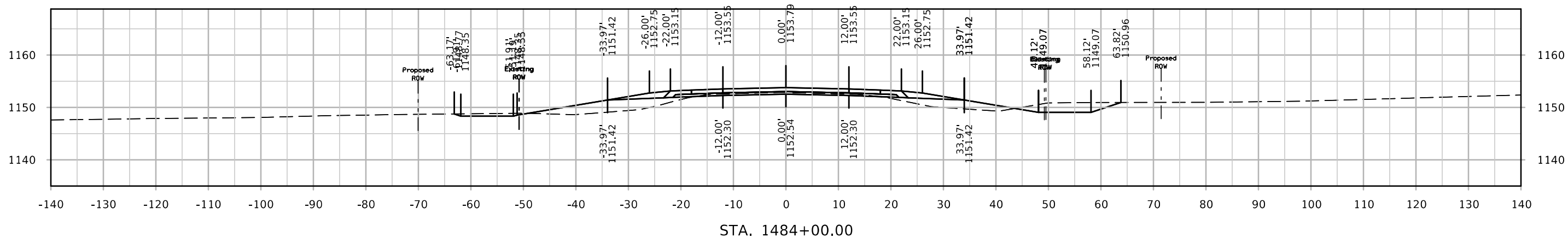
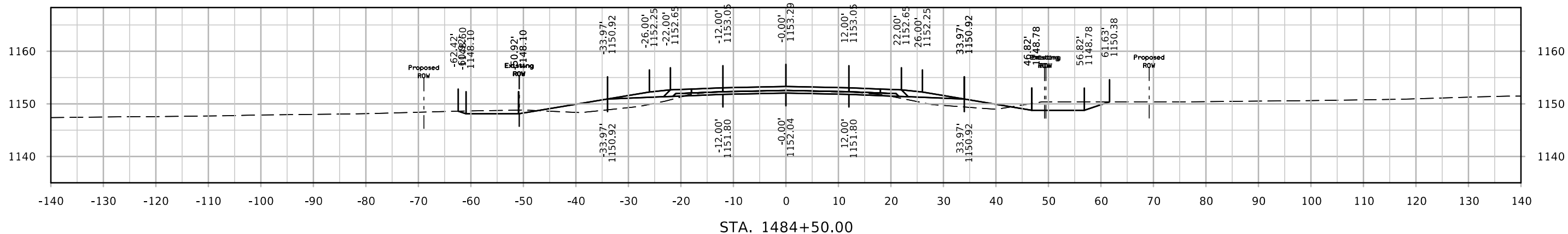


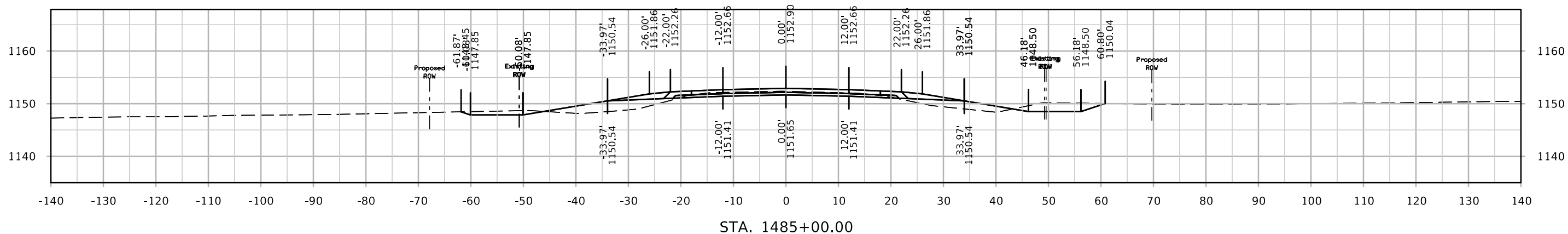
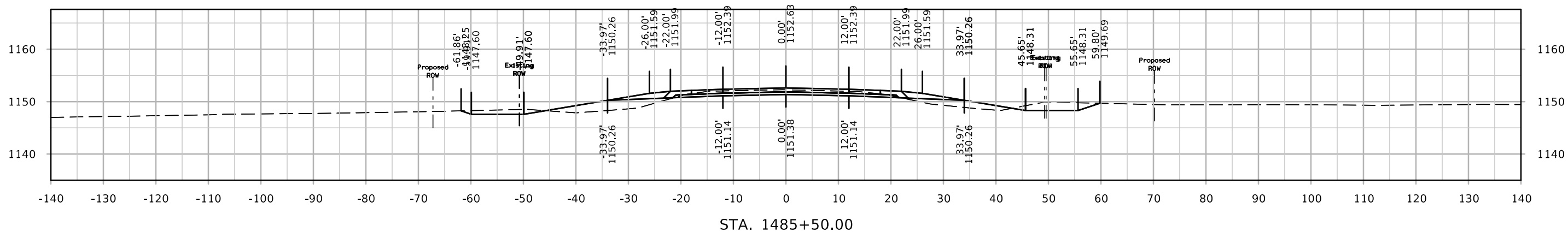
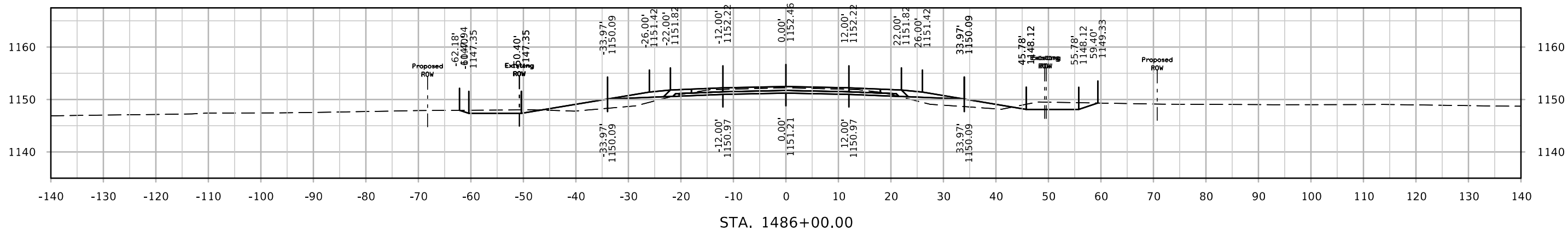


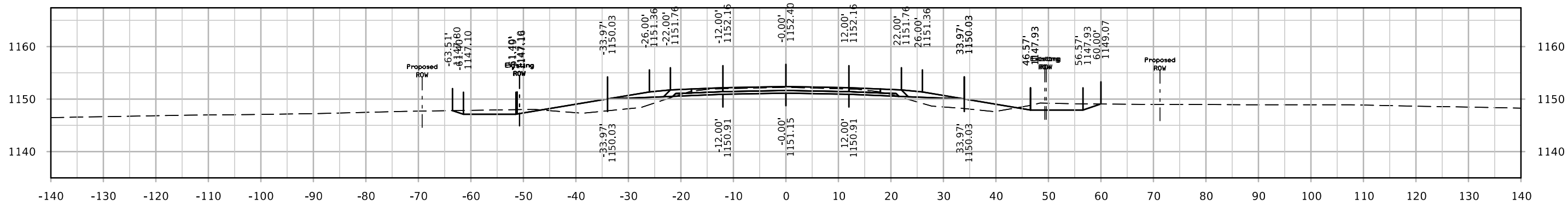
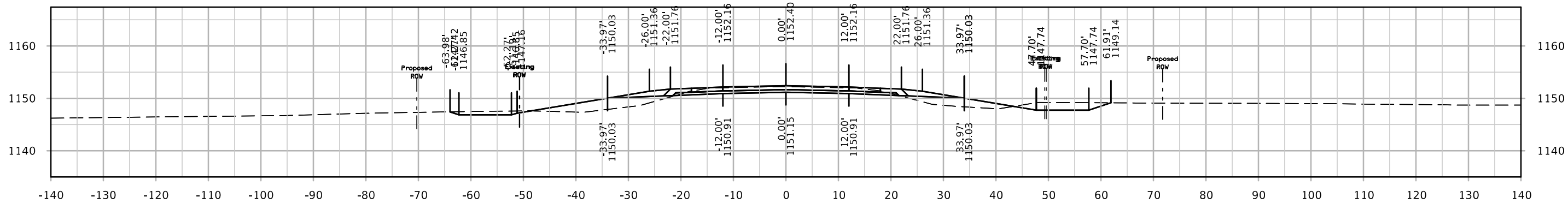
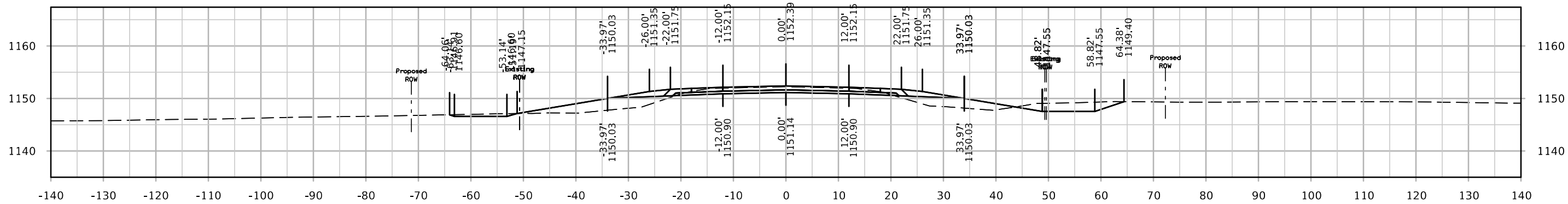




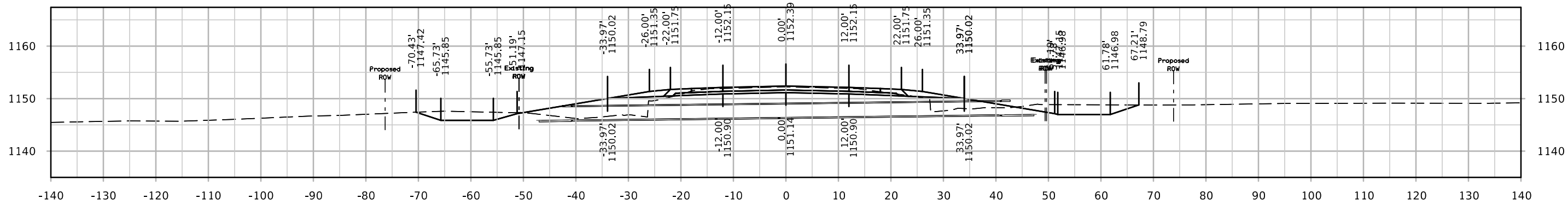




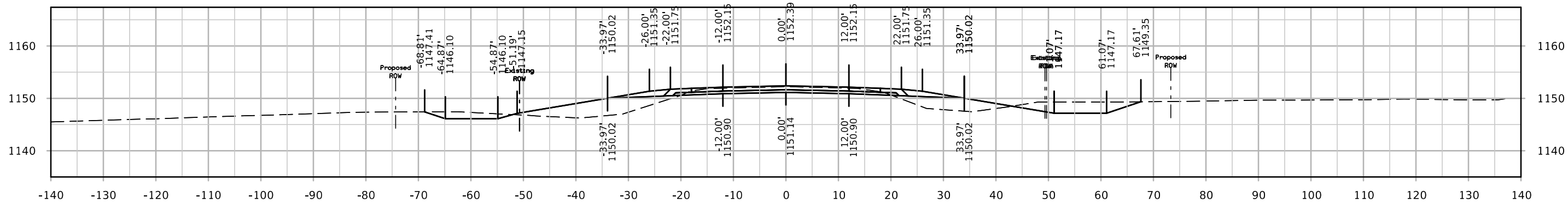




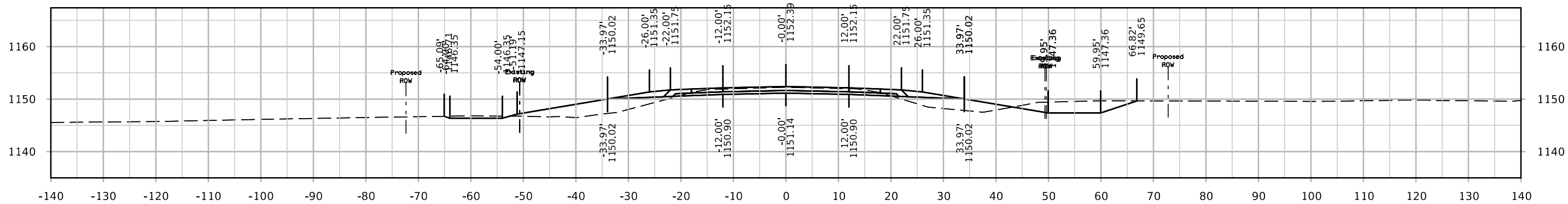




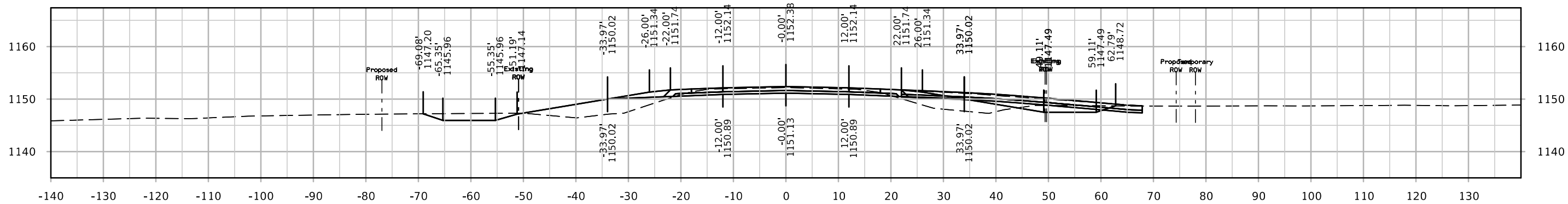
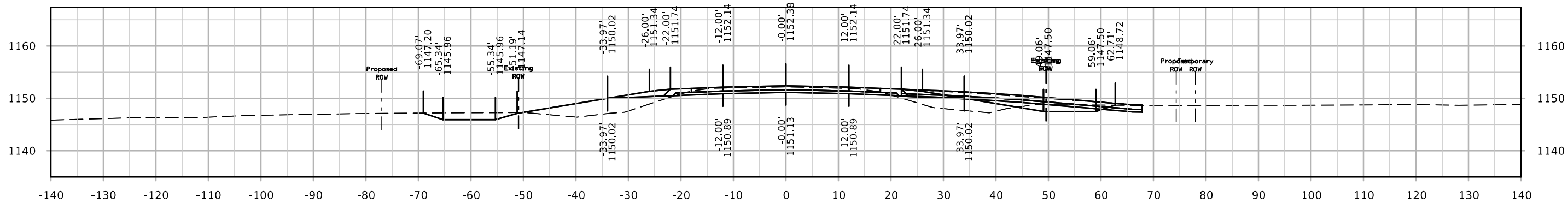
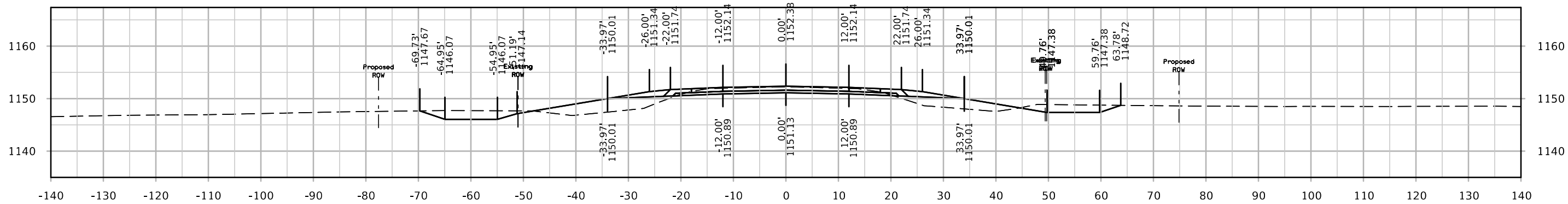
STA. 1489+00.00

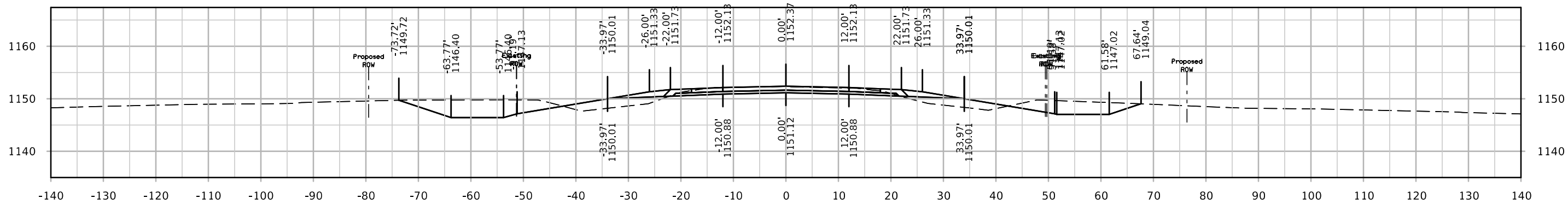


STA. 1488+50.00

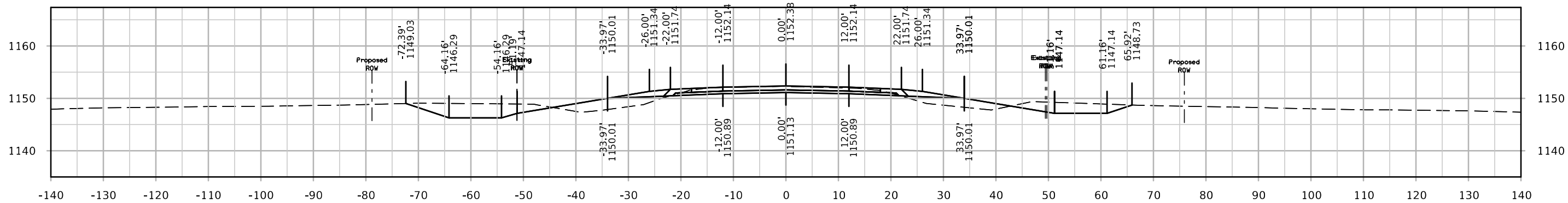


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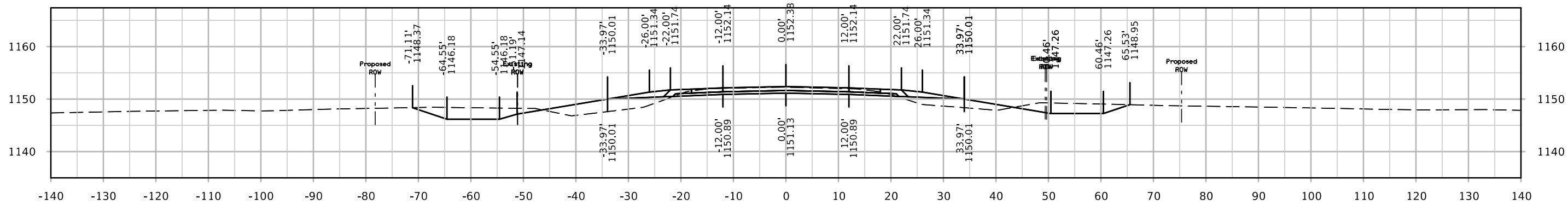




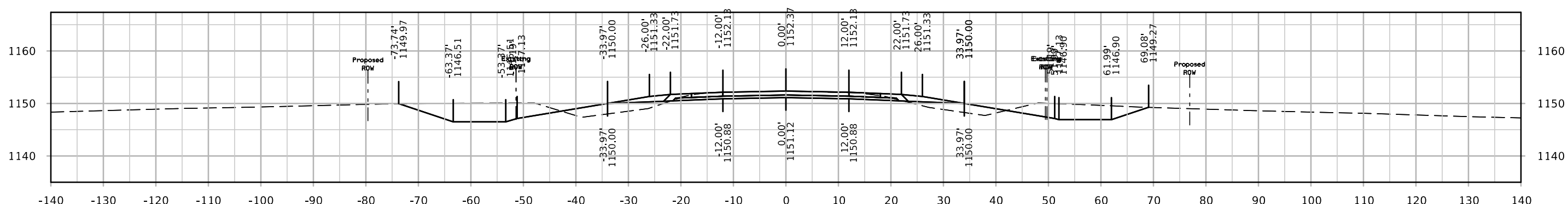
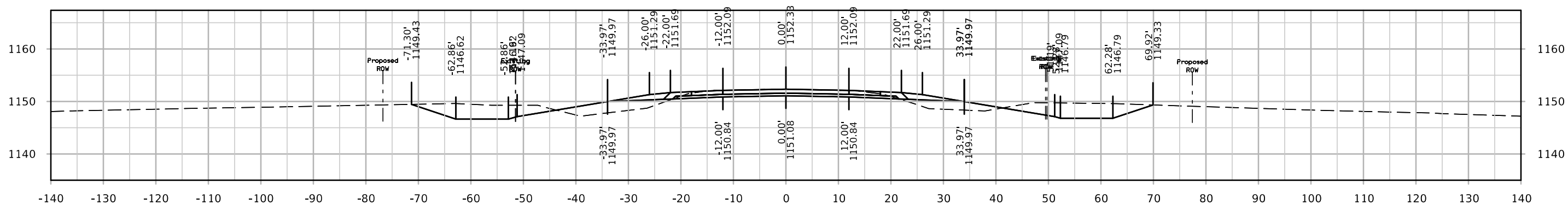
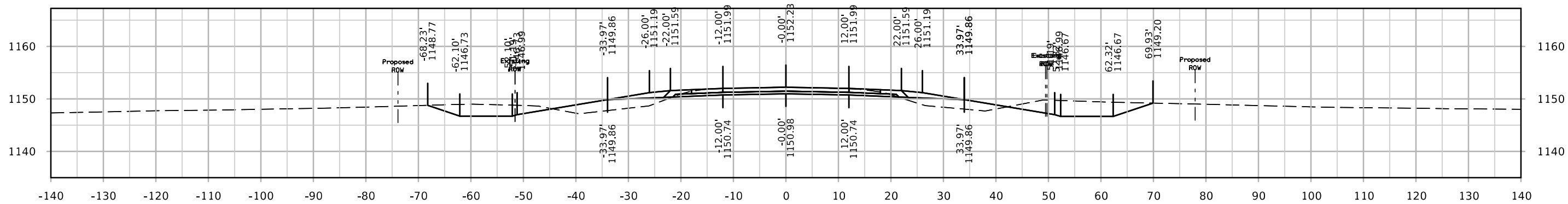
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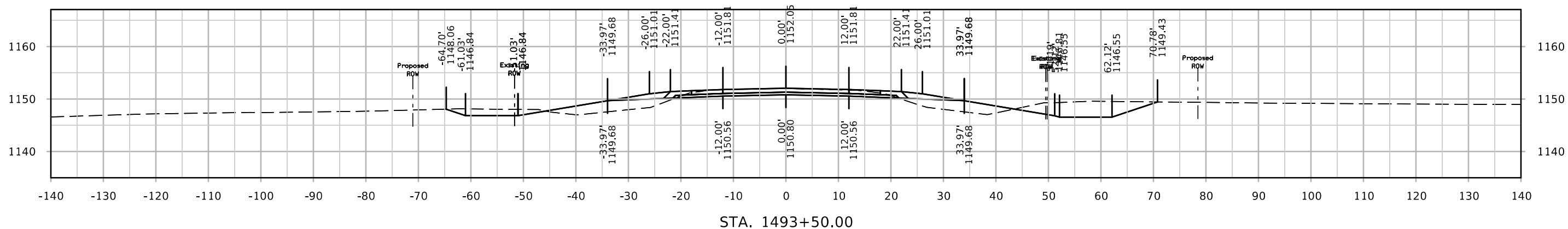
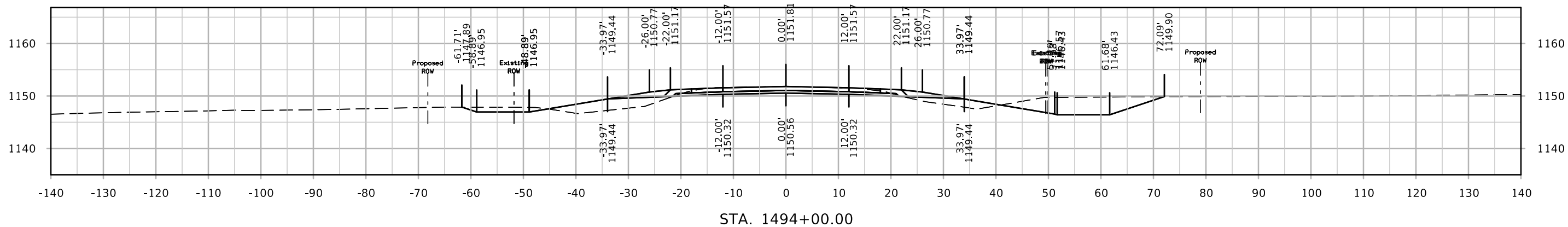
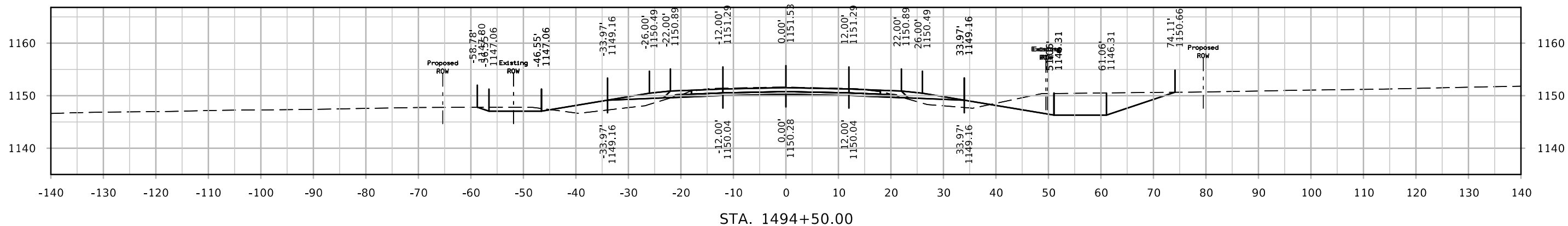


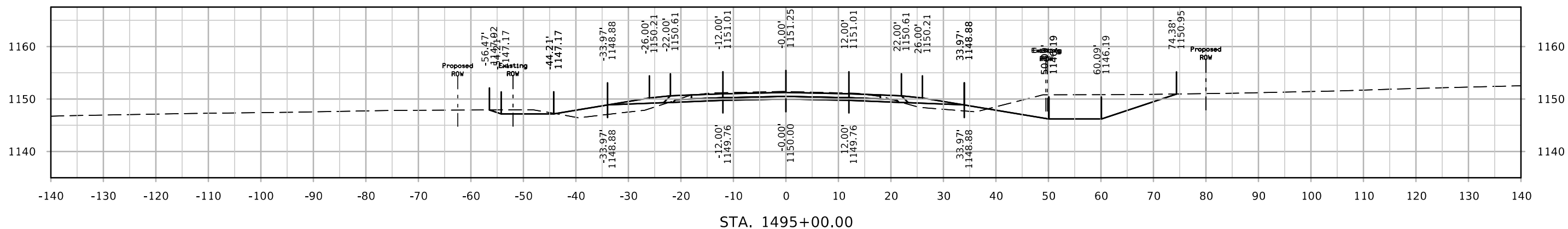
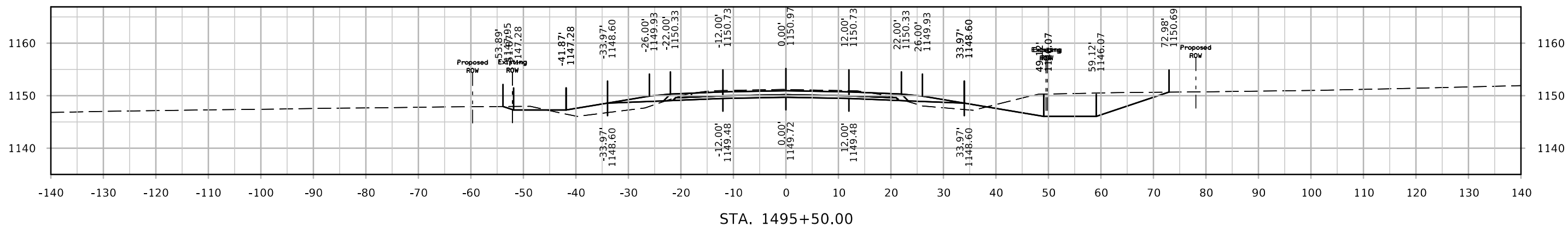
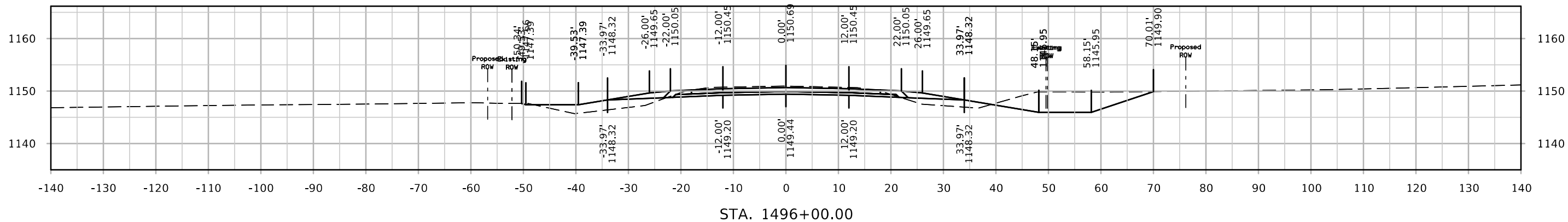
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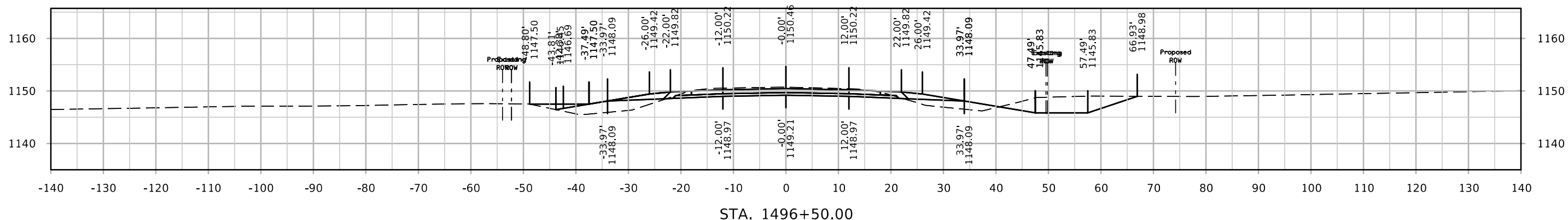
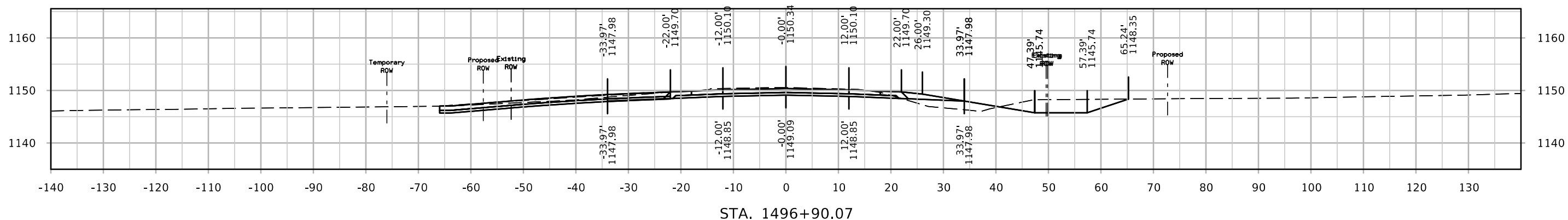
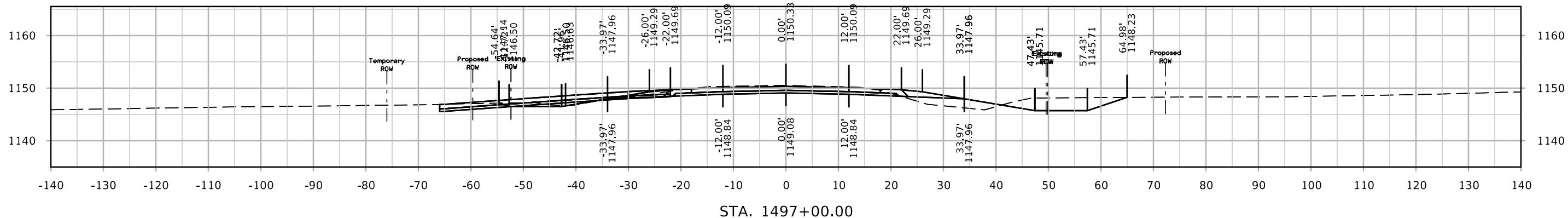


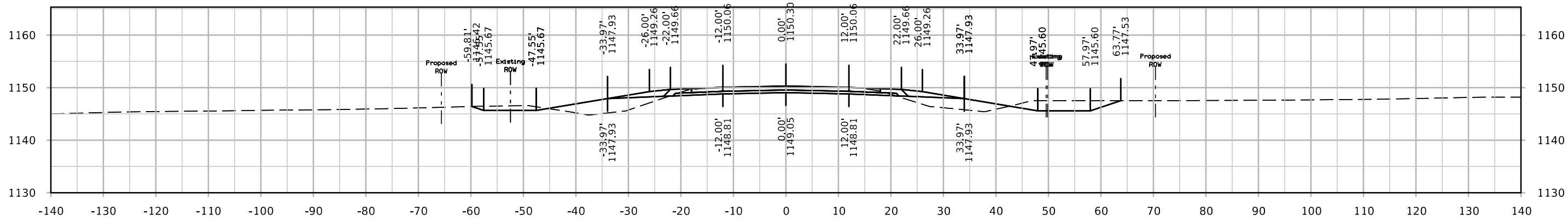
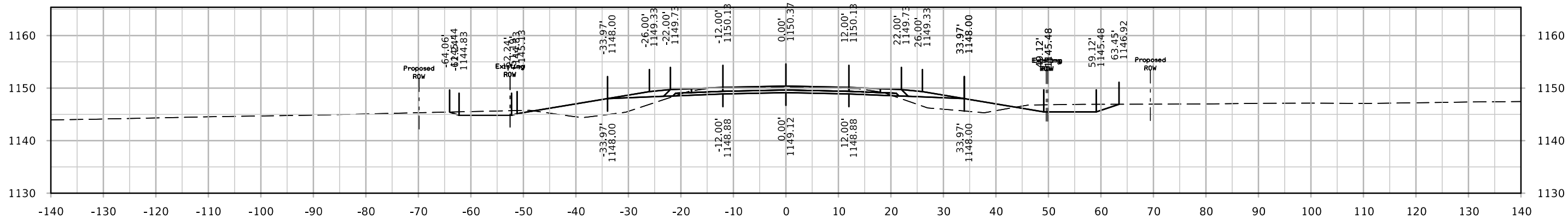
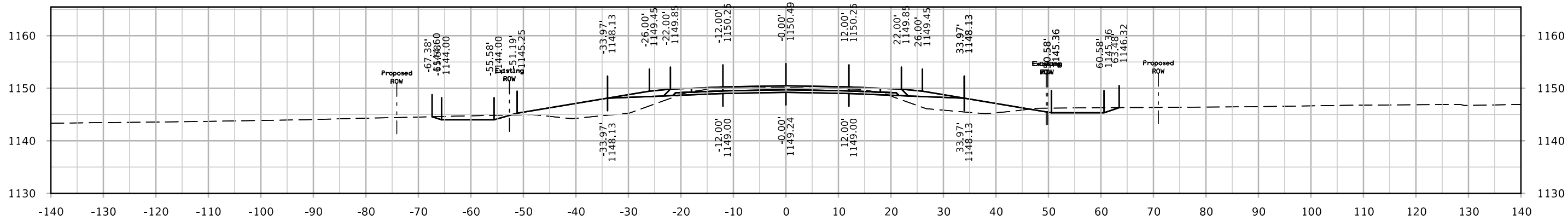
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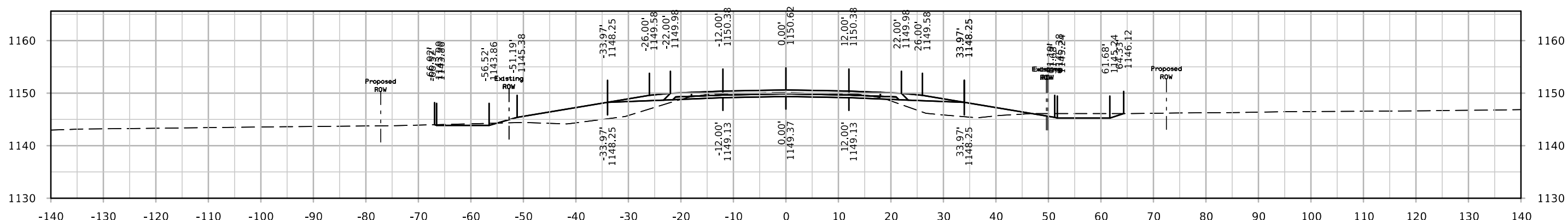
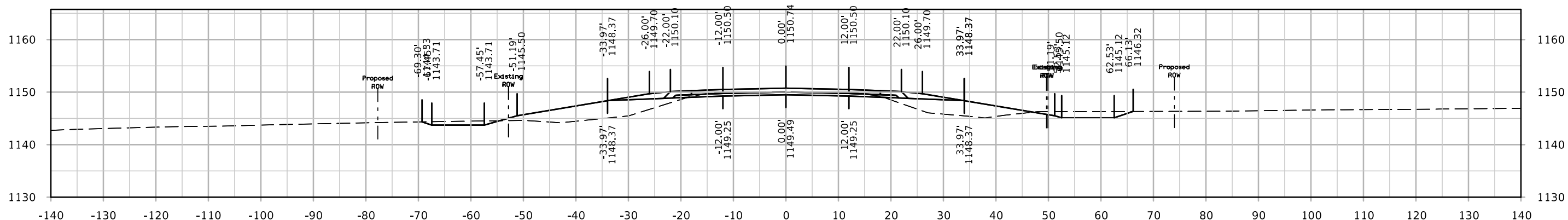
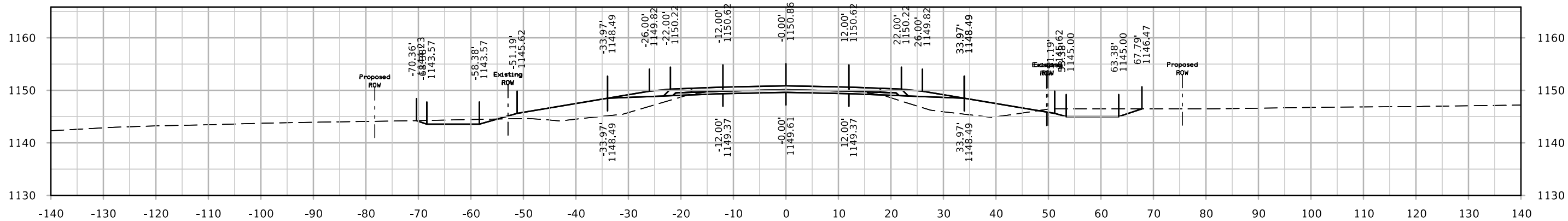


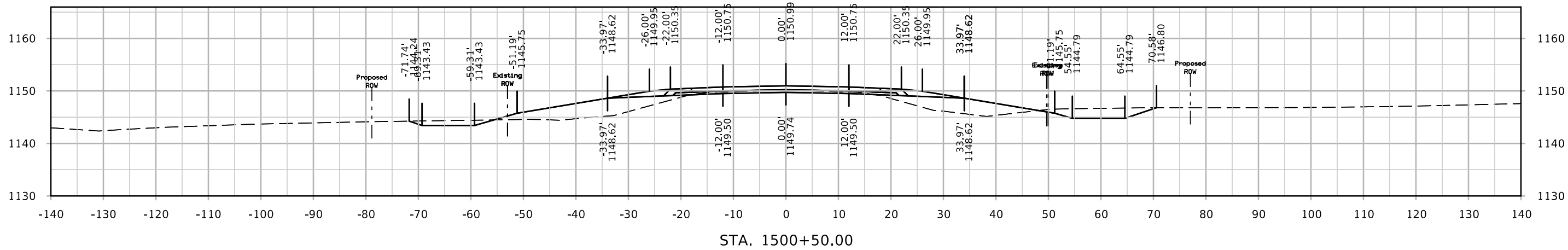
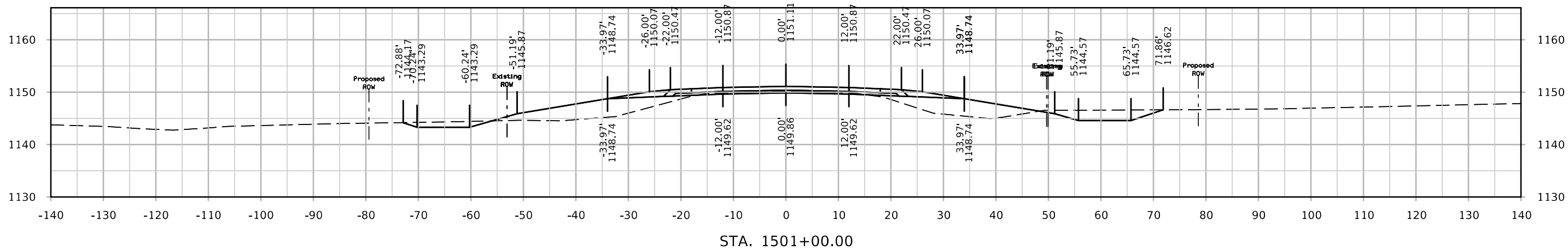
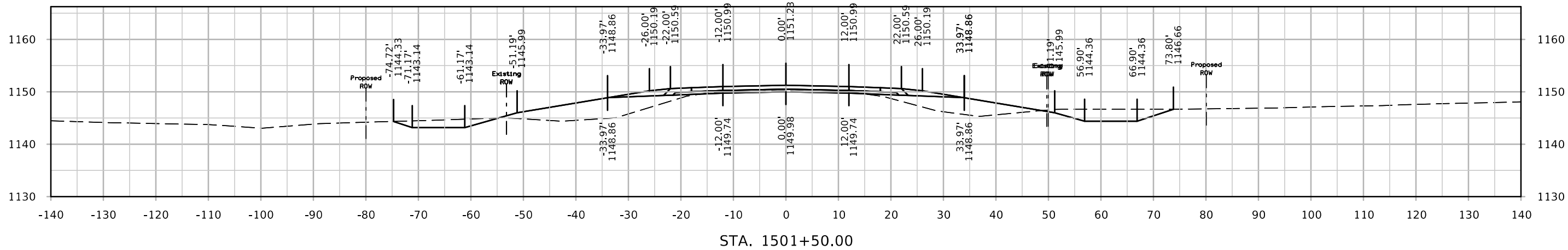


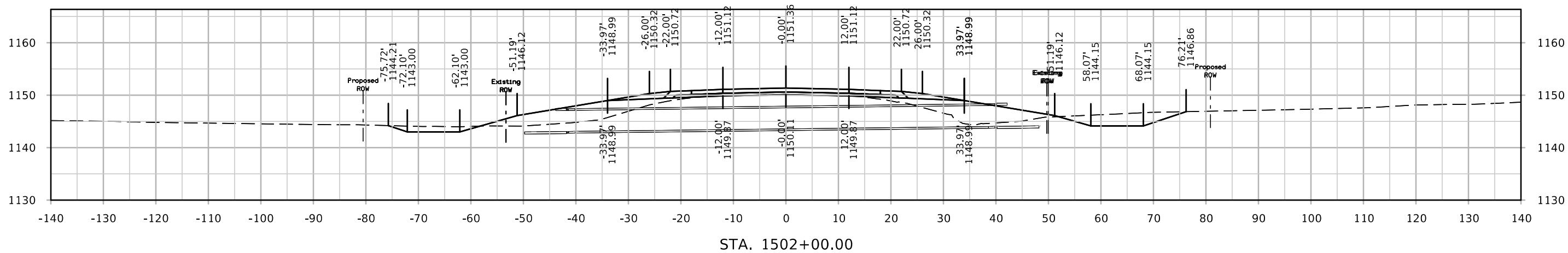
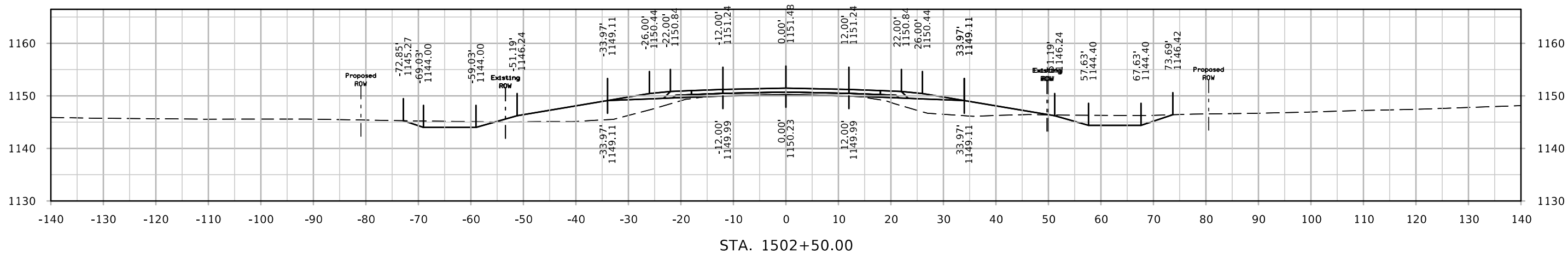
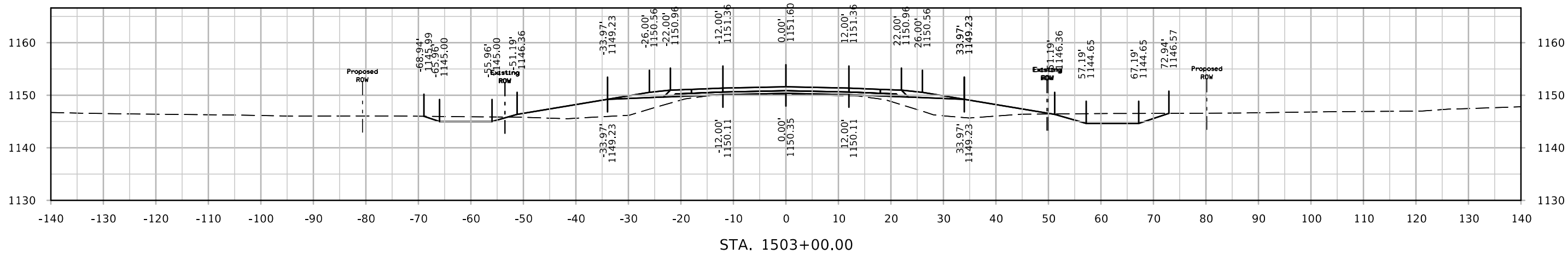


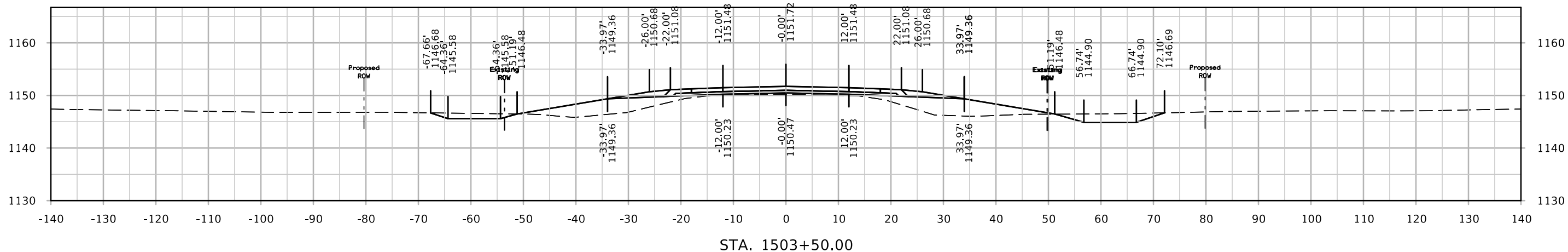
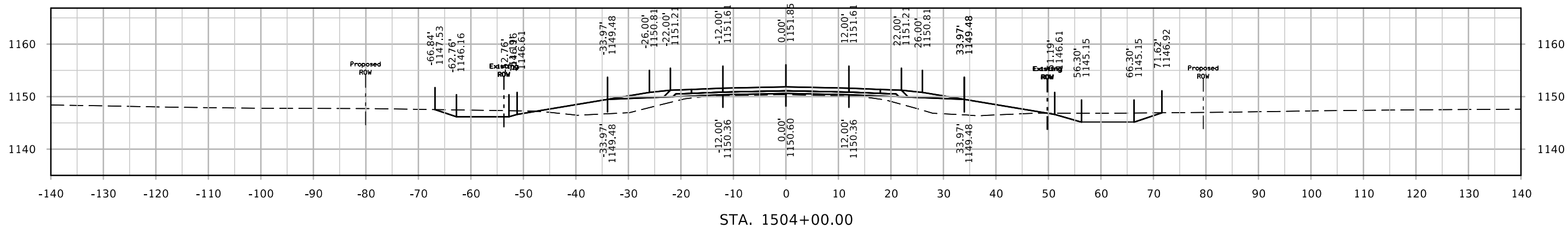
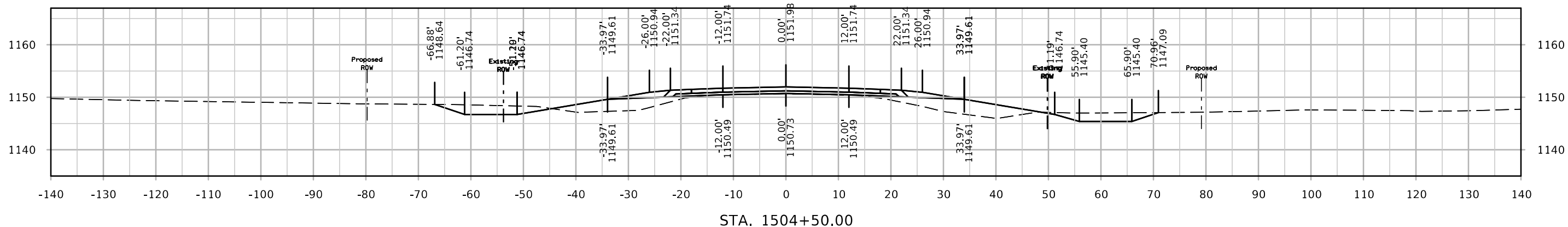


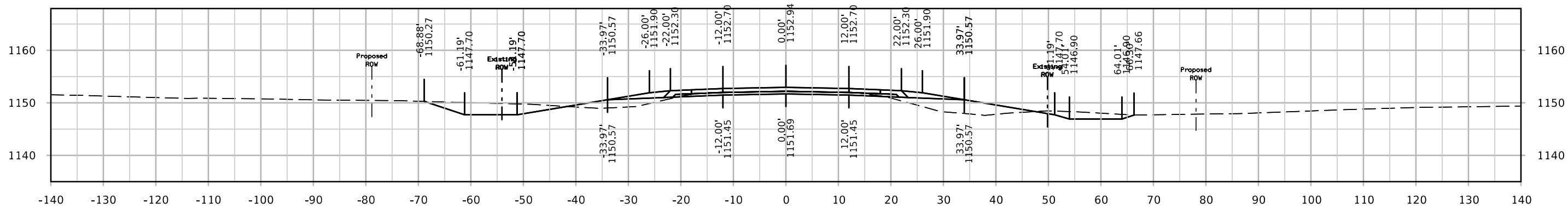




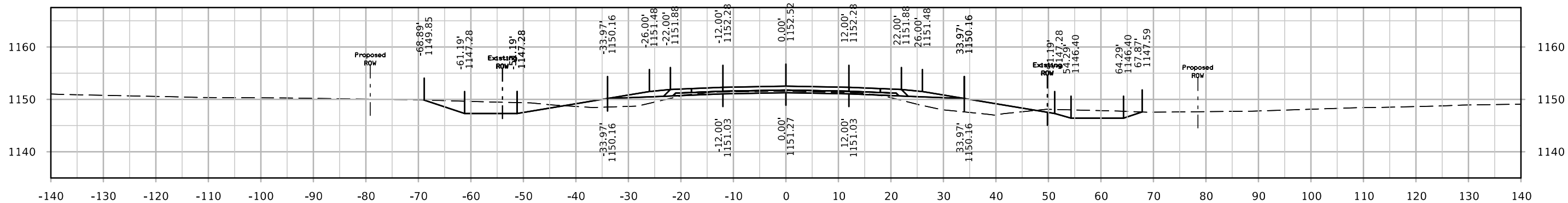




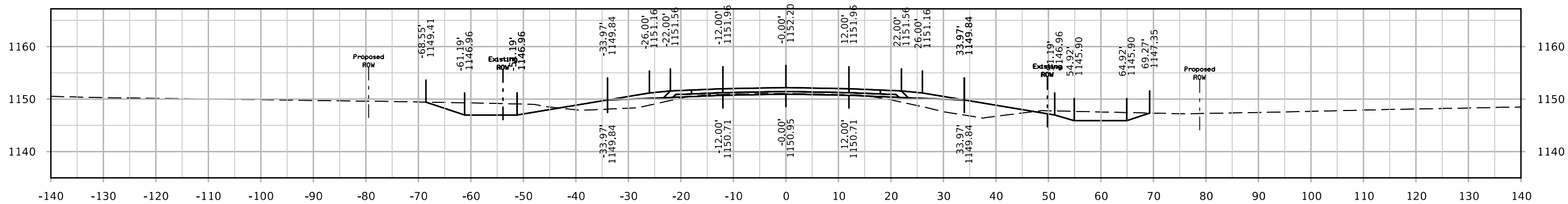




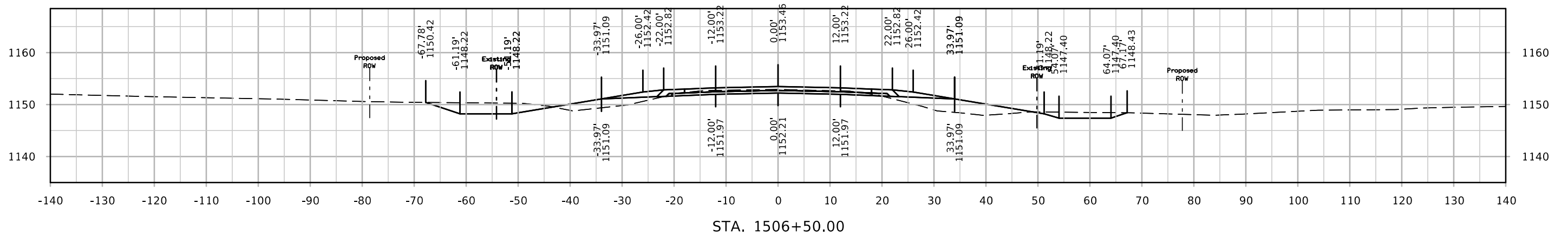
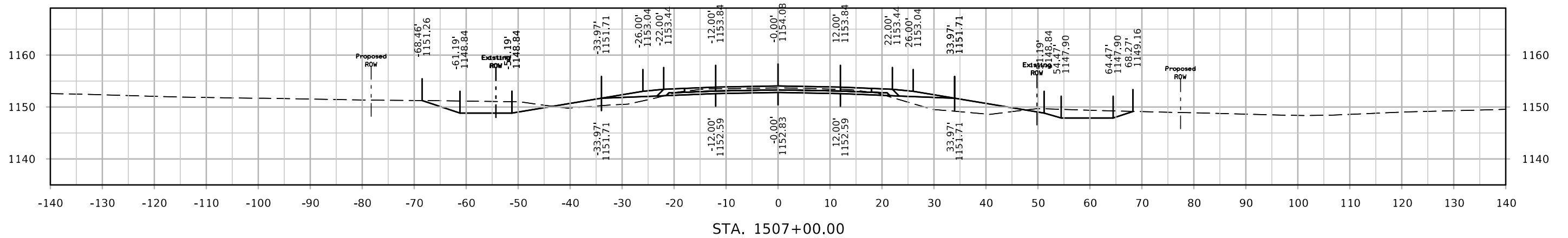
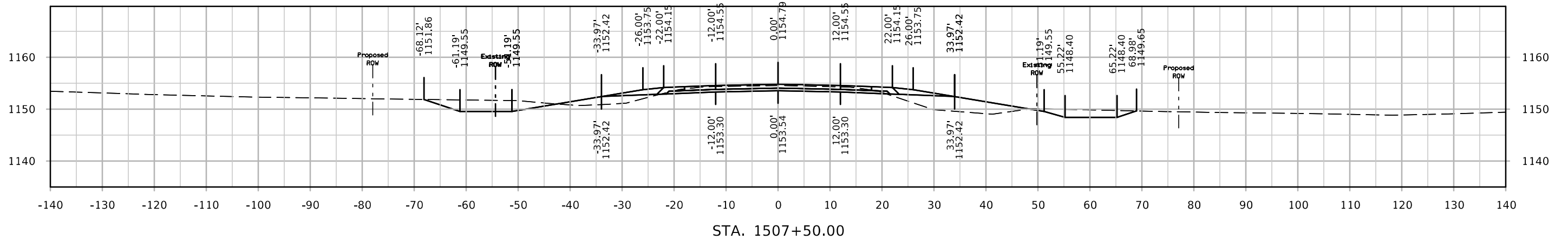
STA. 1506+00.00

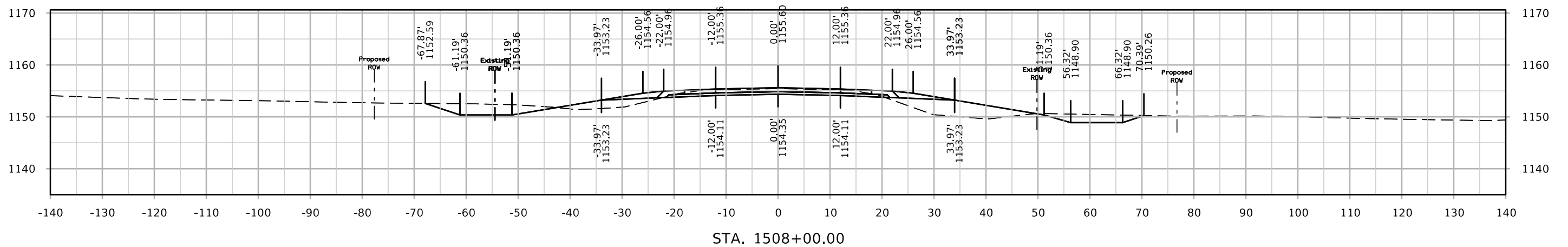
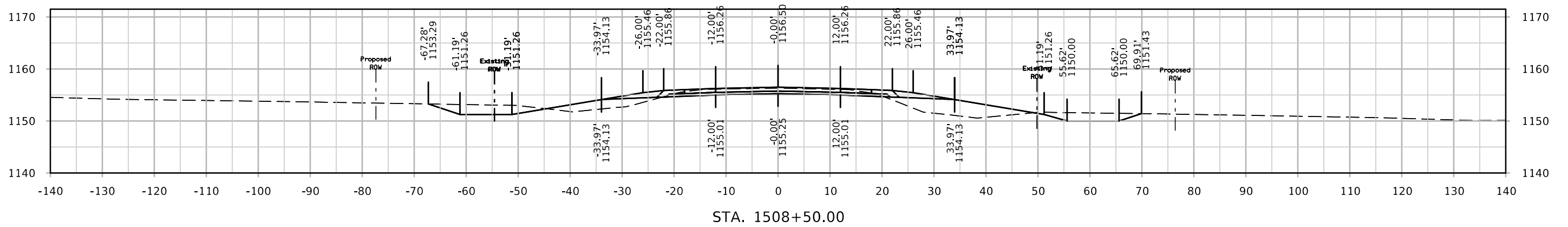
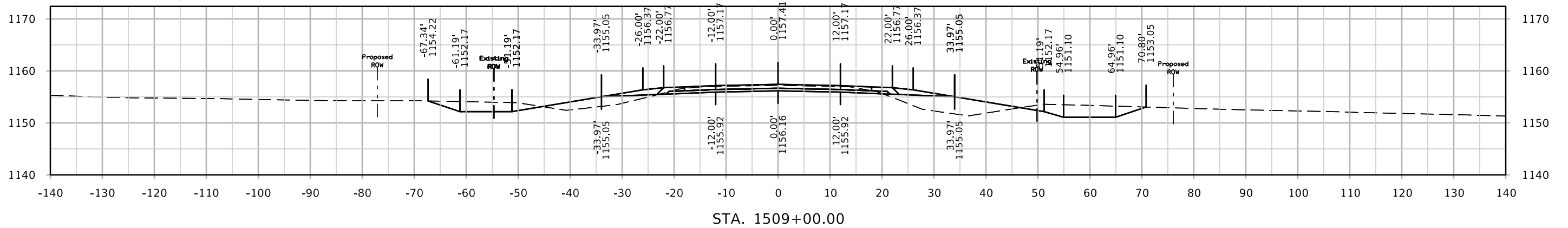


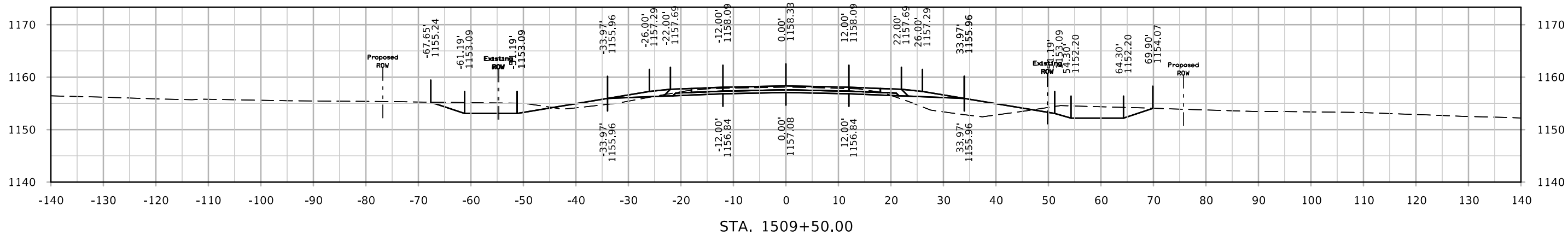
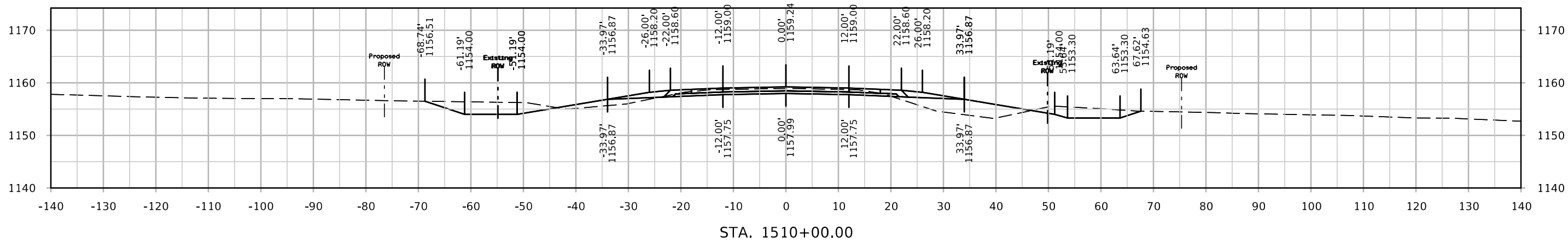
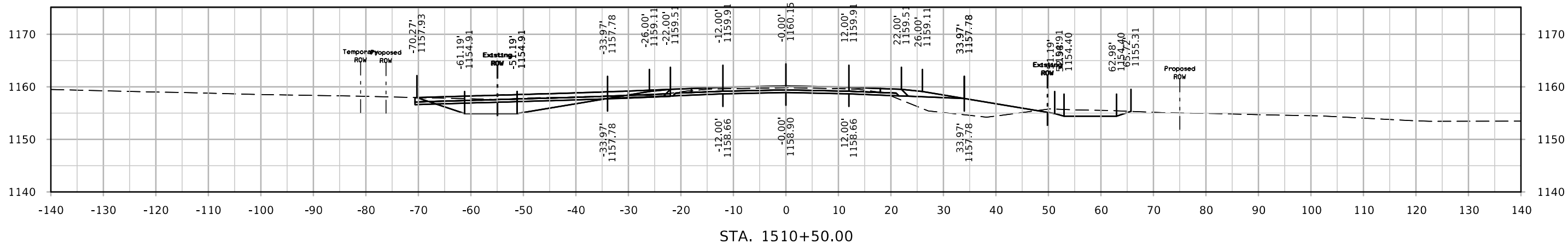
STA. 1505+50.00



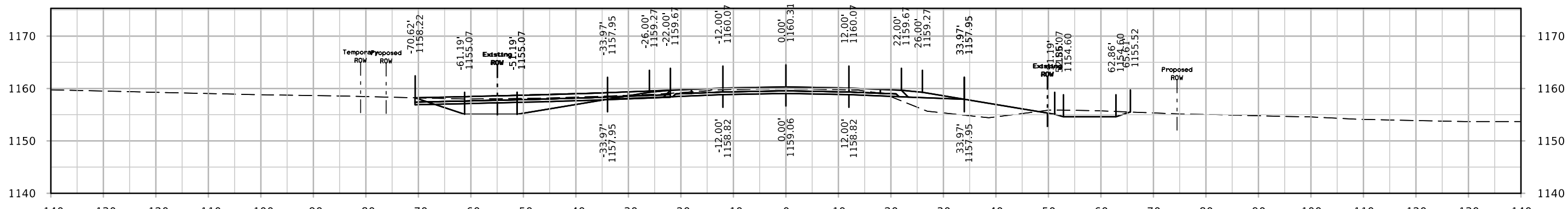
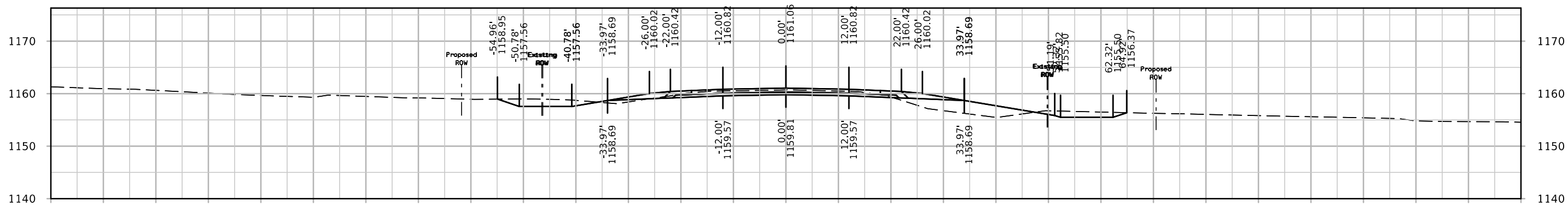
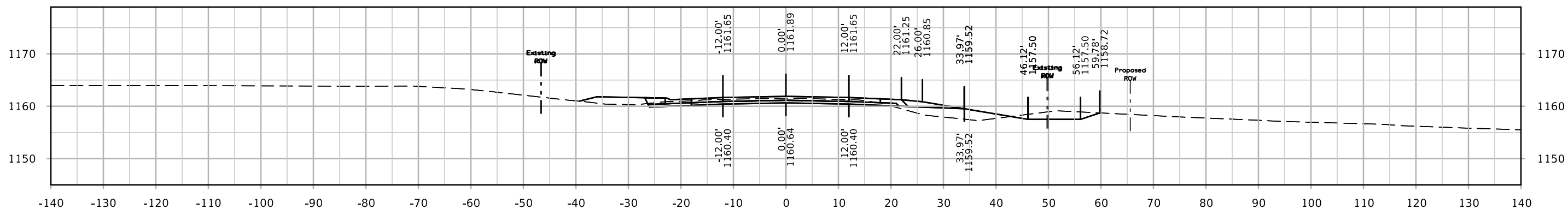
STA. 1505+00.00

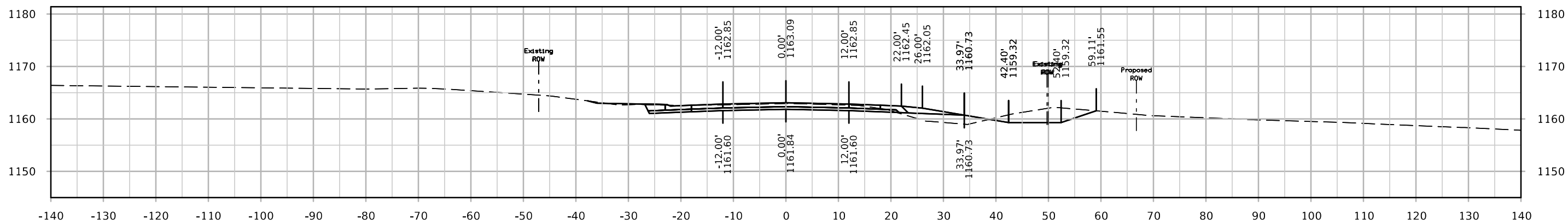




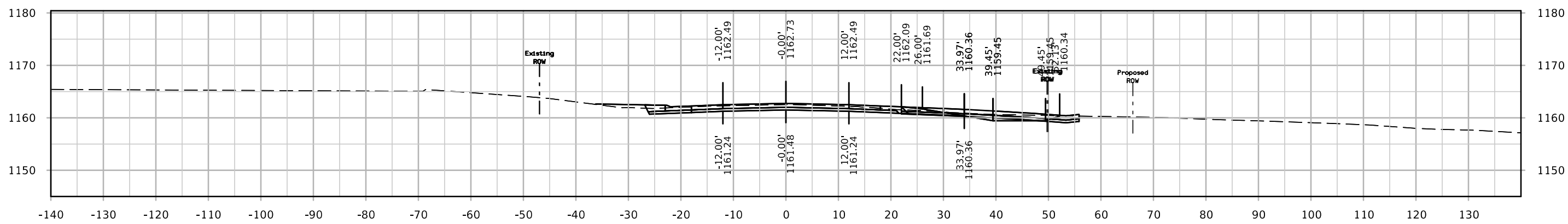




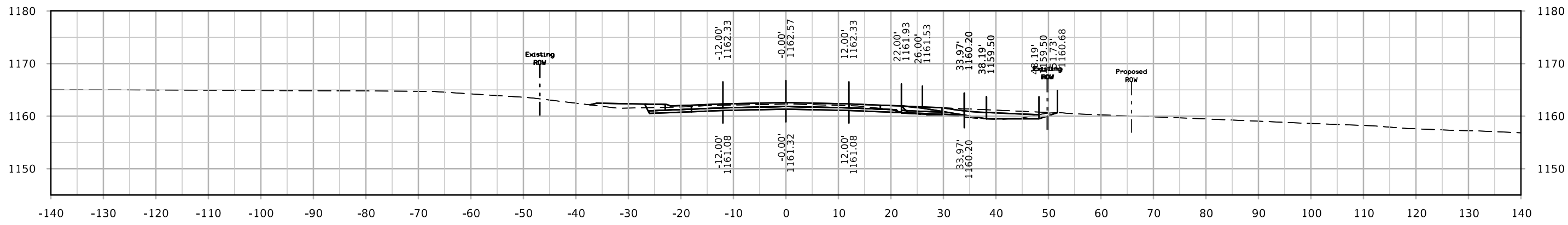




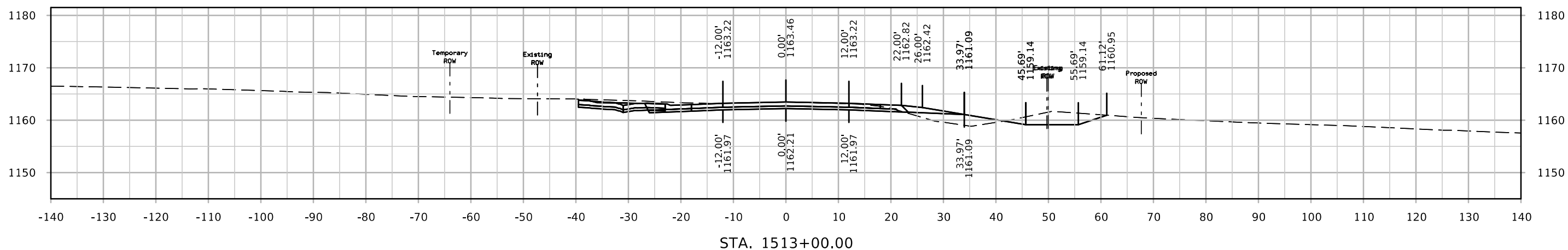
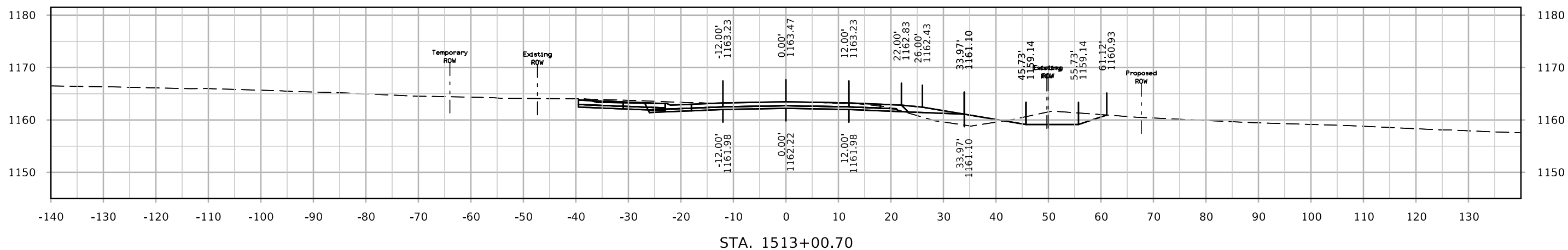
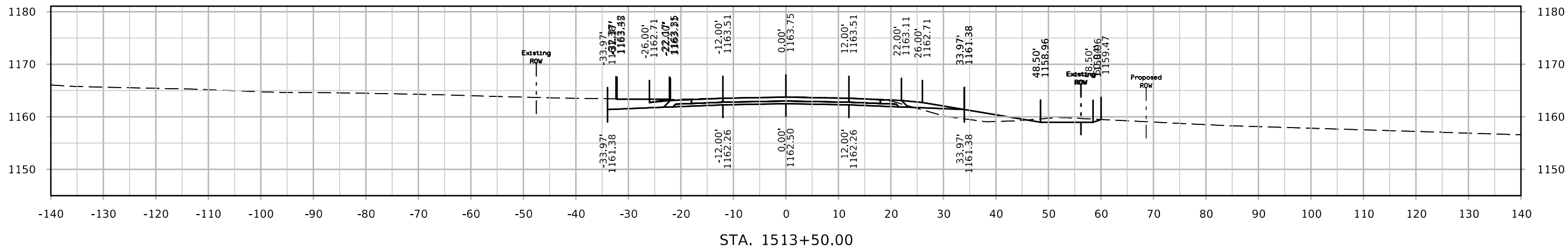
STA. 1512+50.00

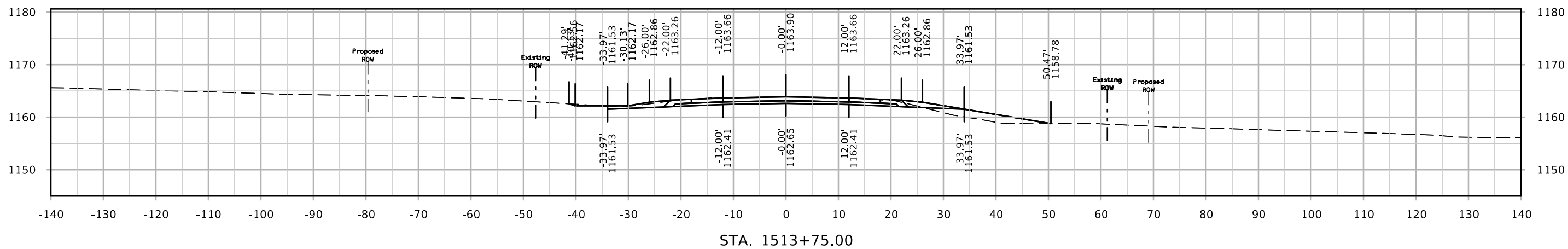


STA. 1512+13.88

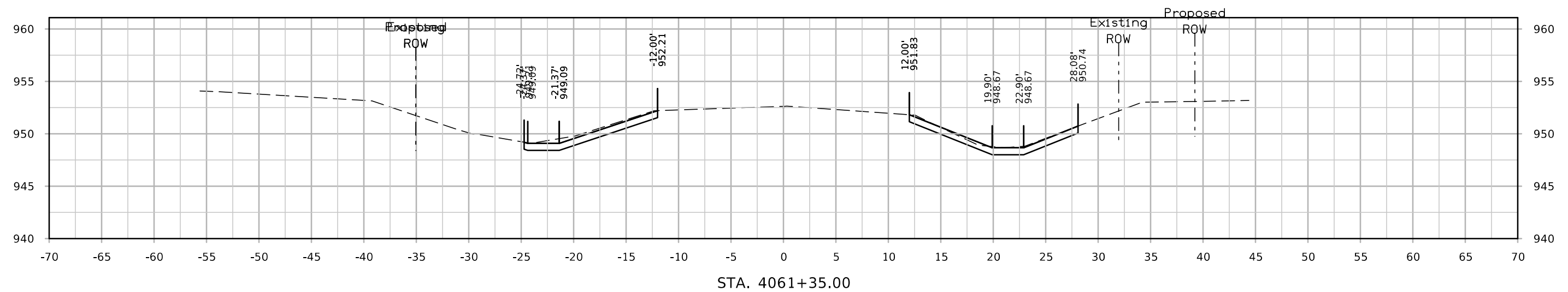
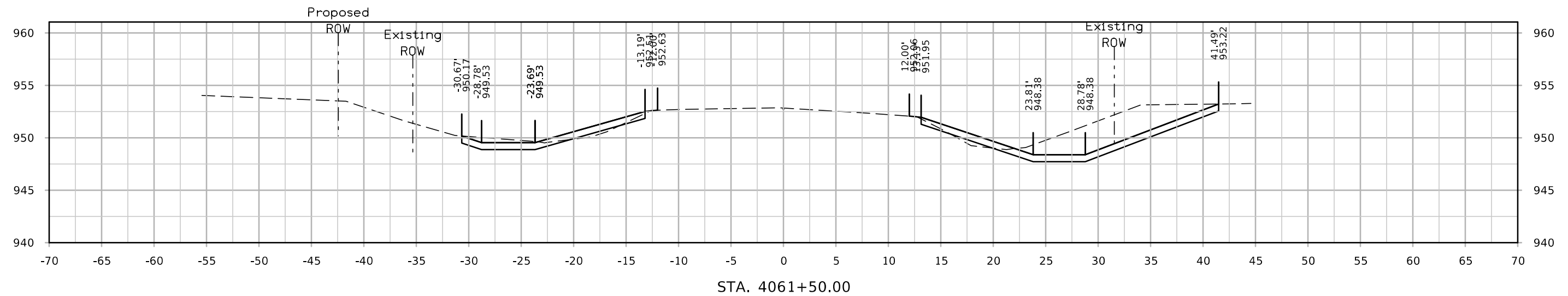
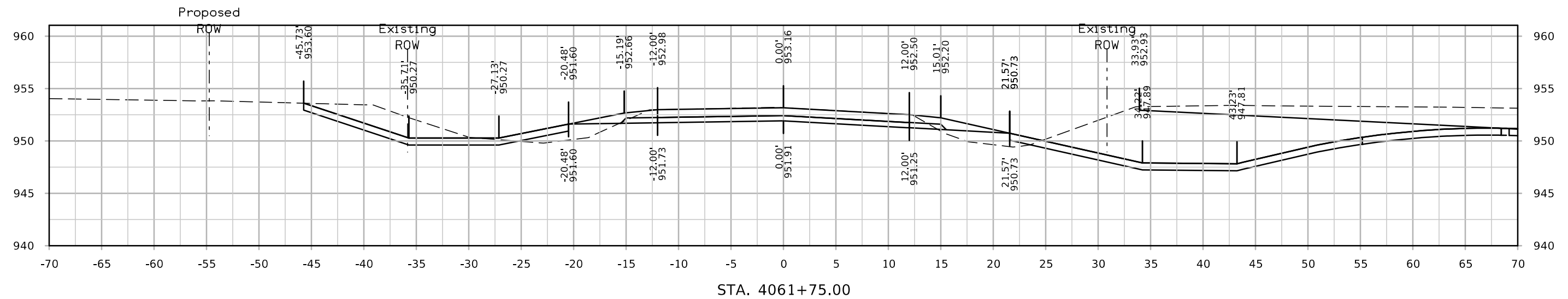


STA. 1512+00.00

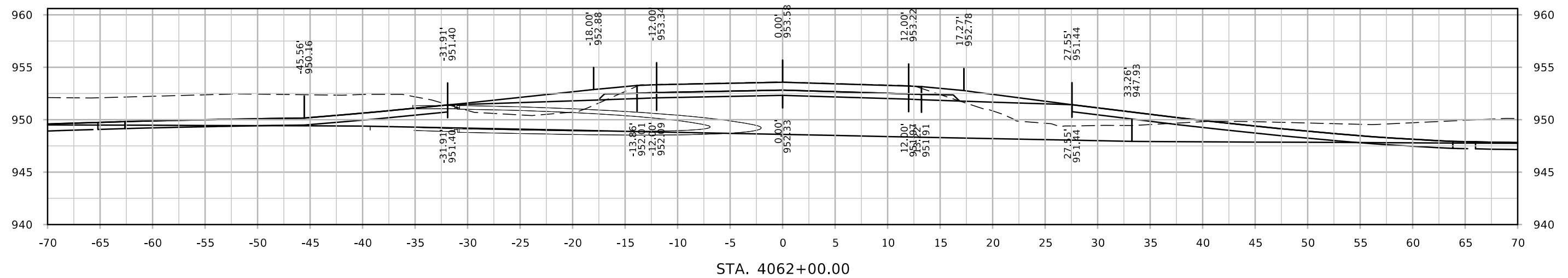
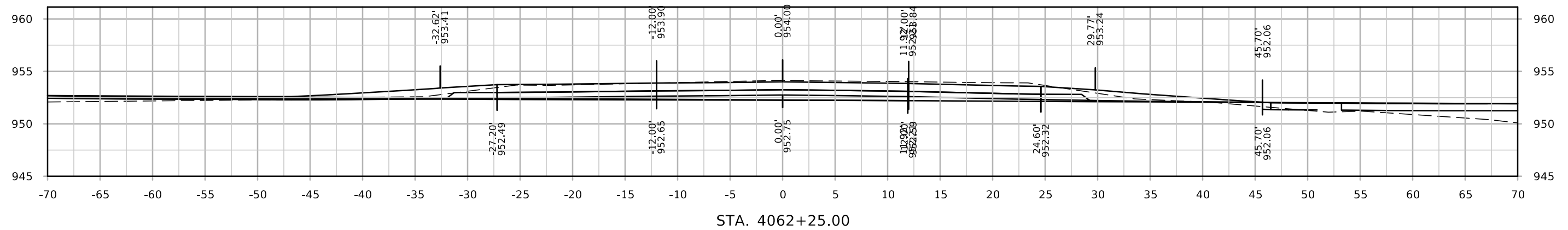
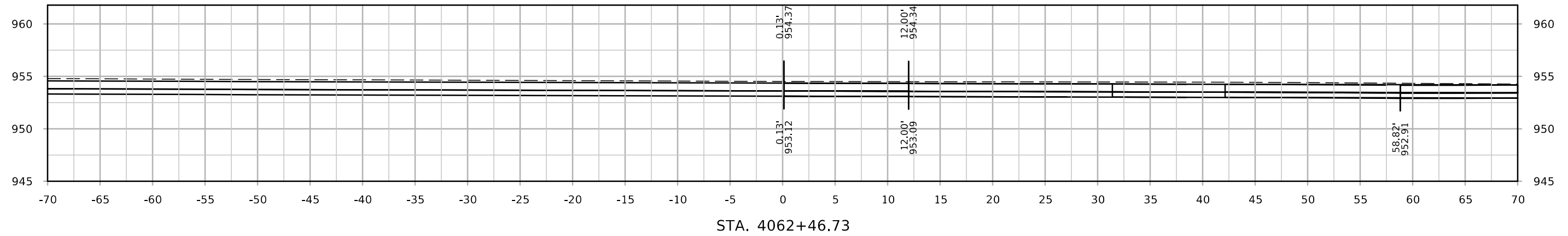




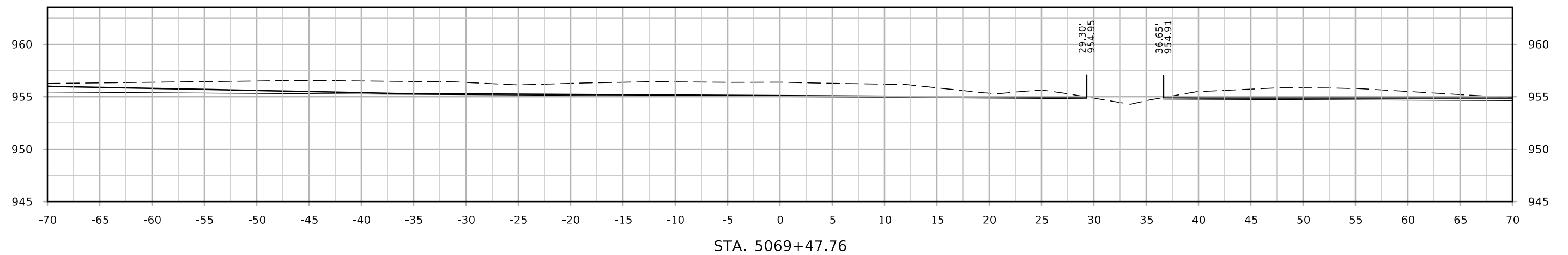
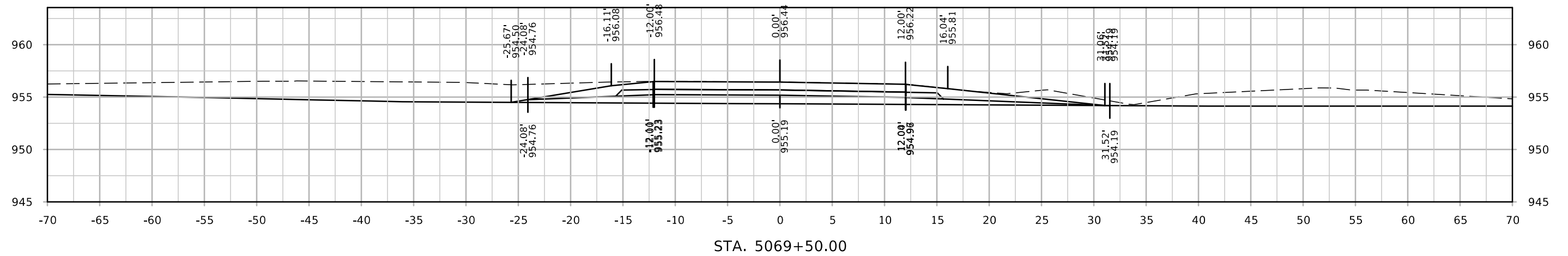
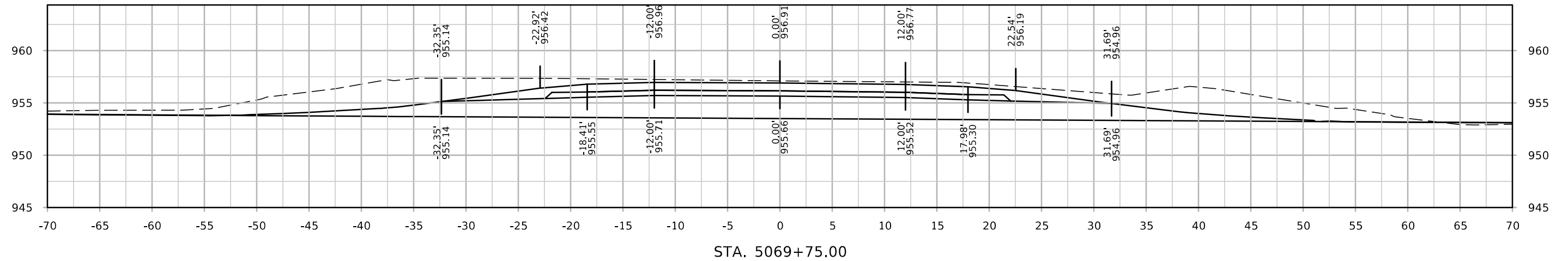
# Firefly Rd



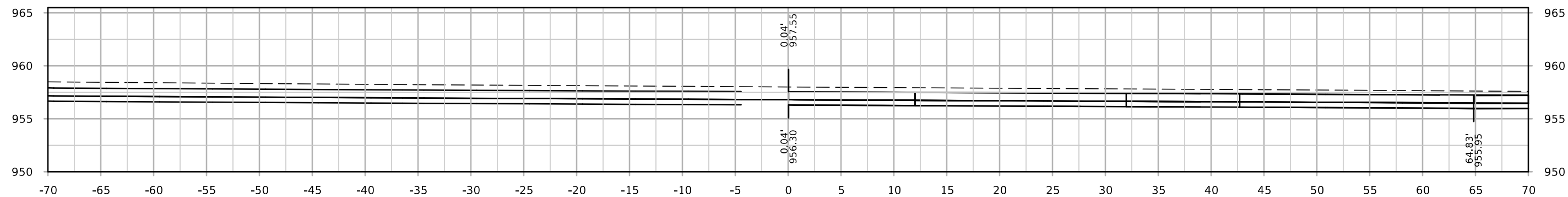
# Firefly Rd



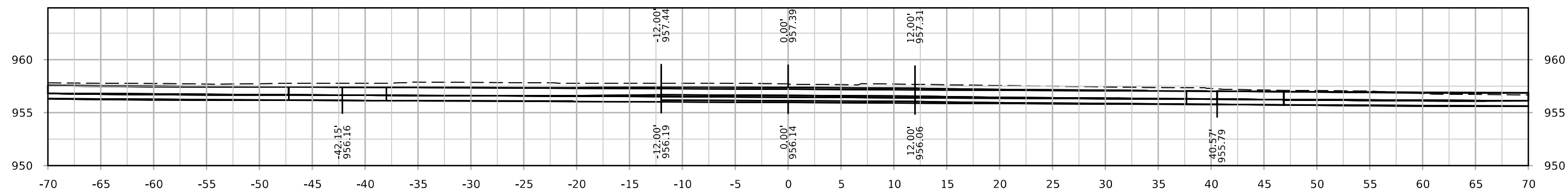
# 185th St



# 185th St



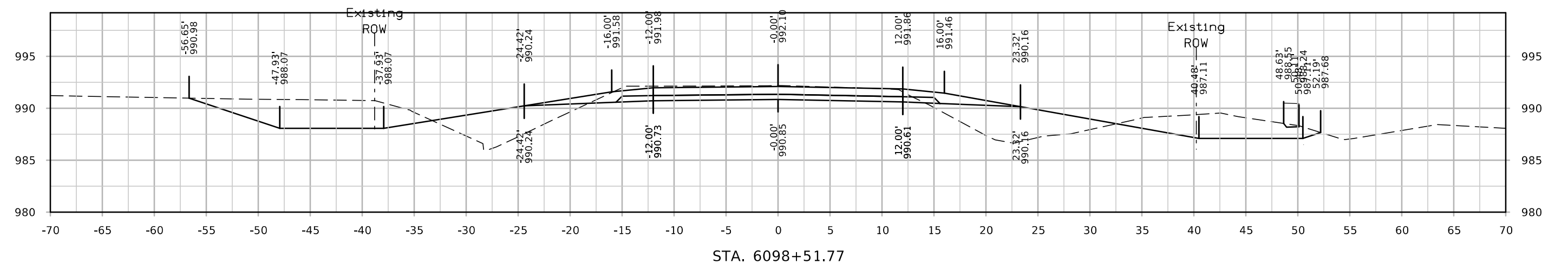
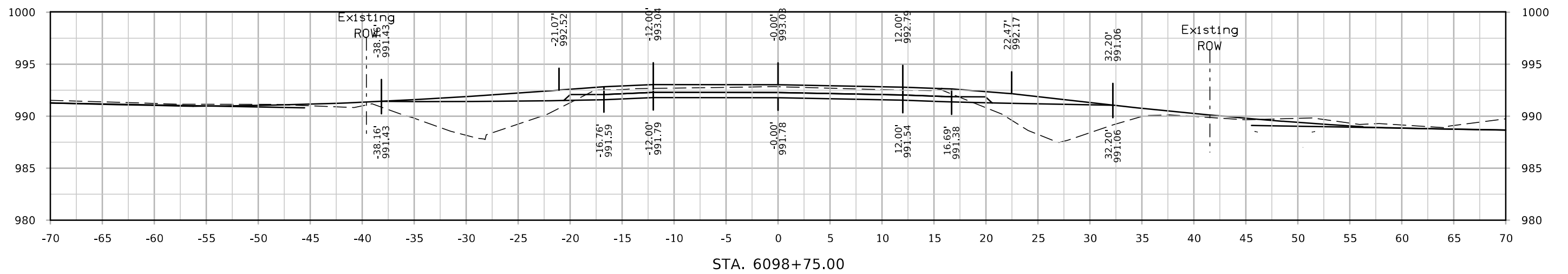
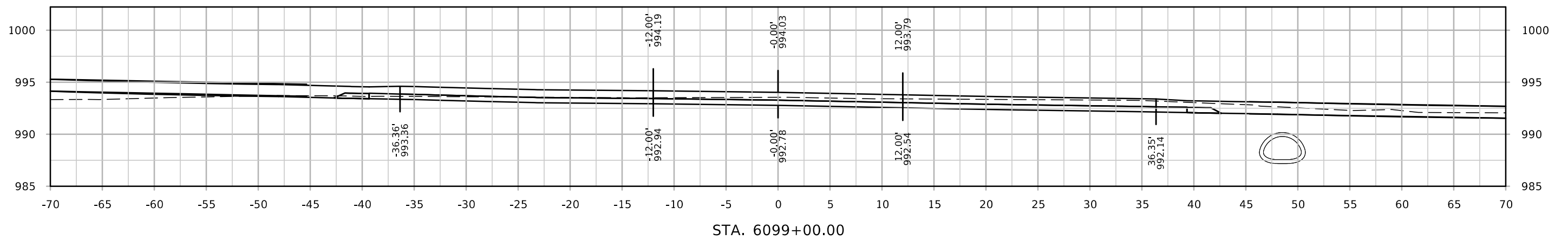
STA. 5070+08.48



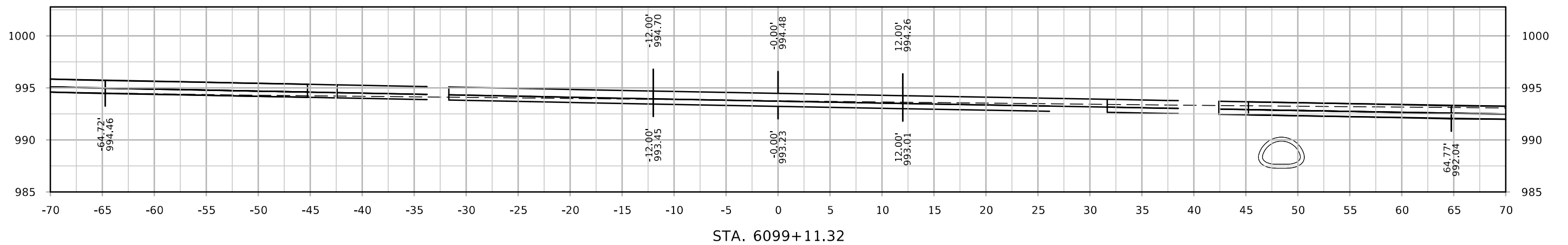
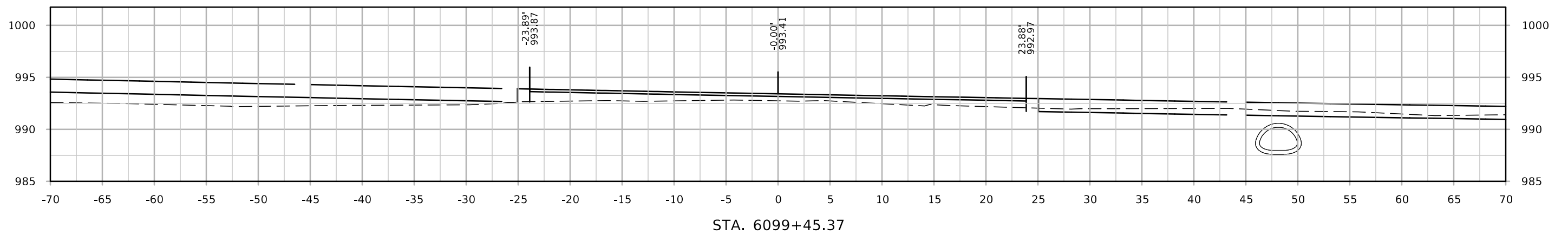
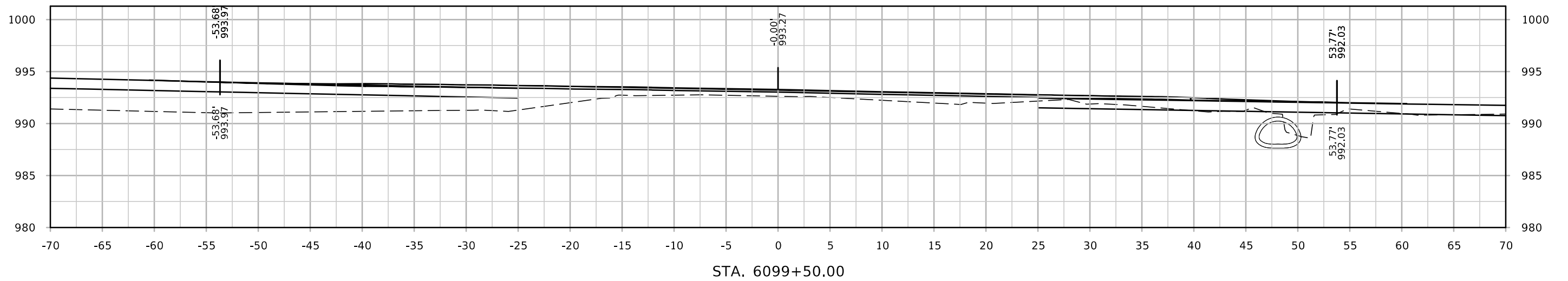
STA. 5070+00.00



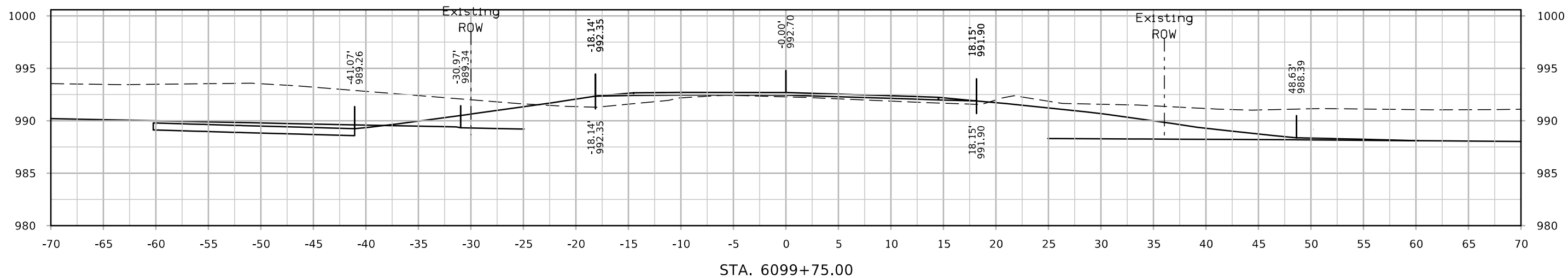
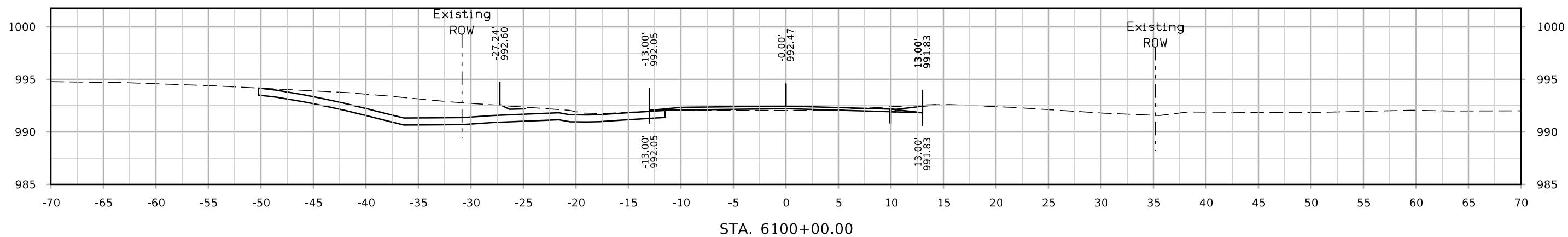
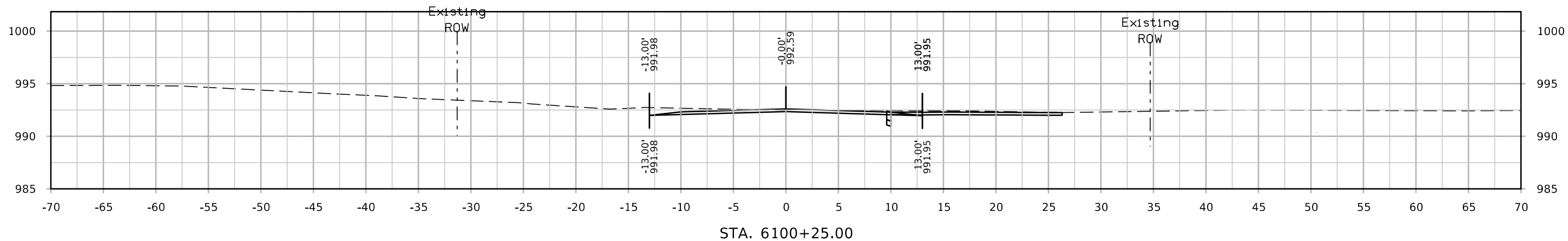
# 180th St



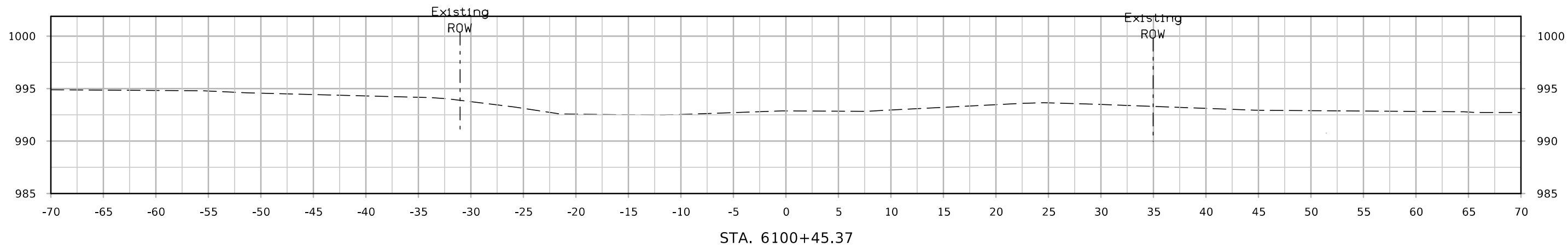
# 180th St



# 180th St

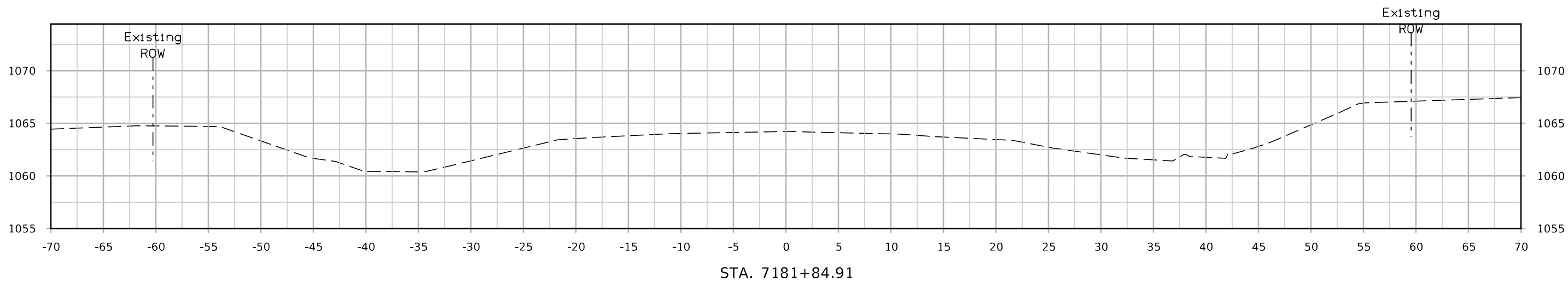
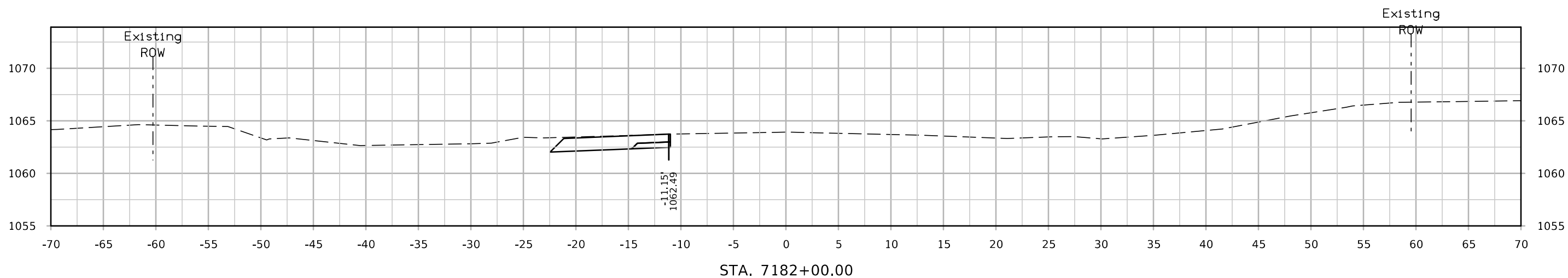
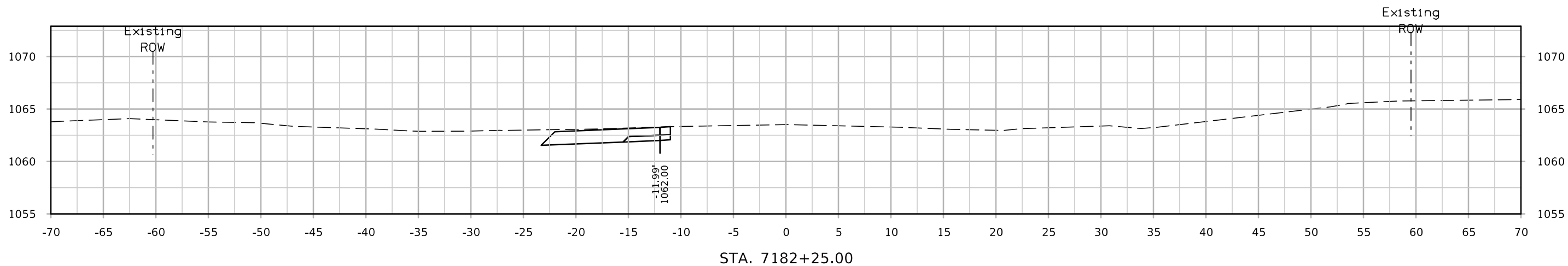


# 180th St

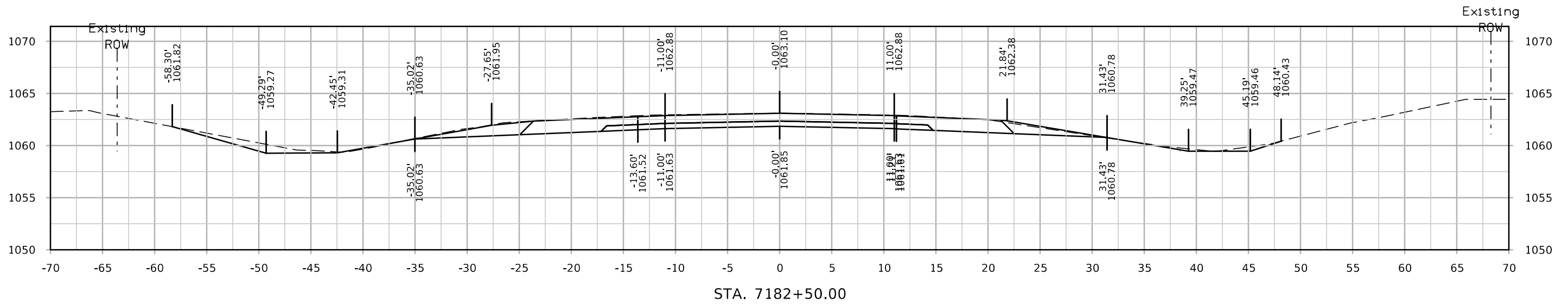
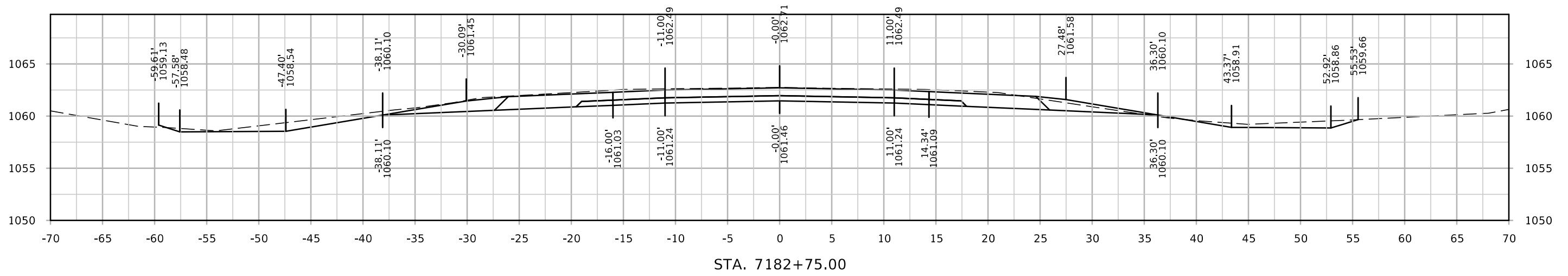
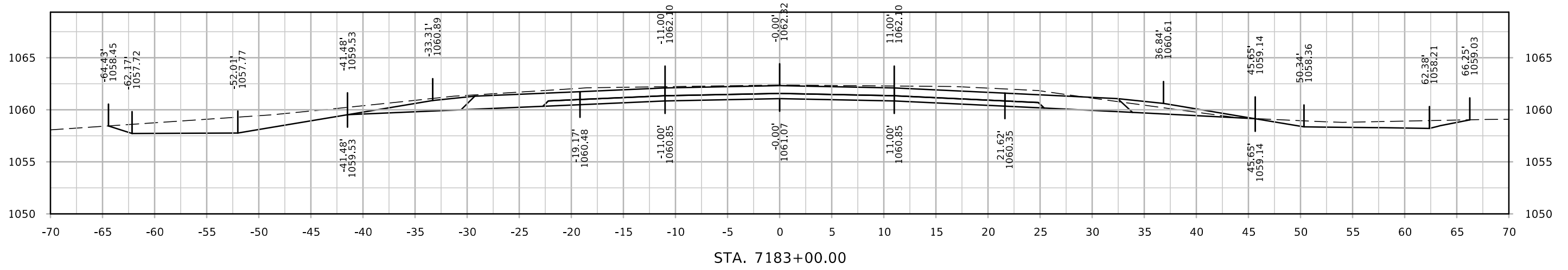


STA. 6100+45.37

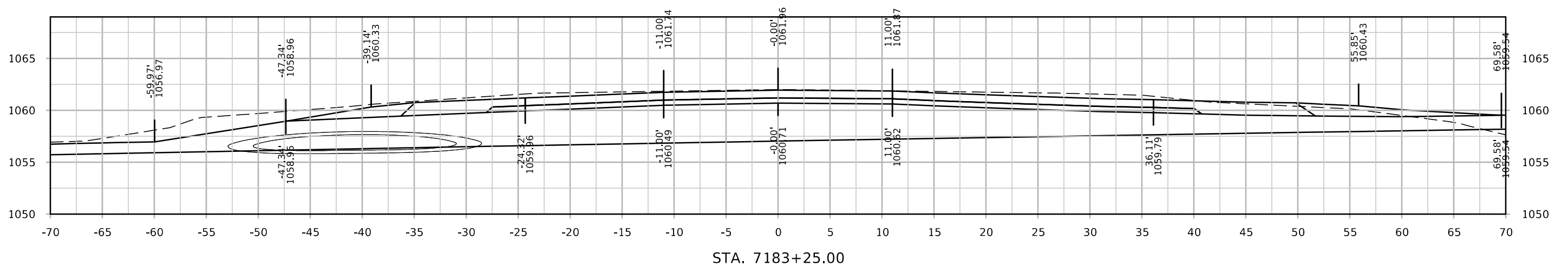
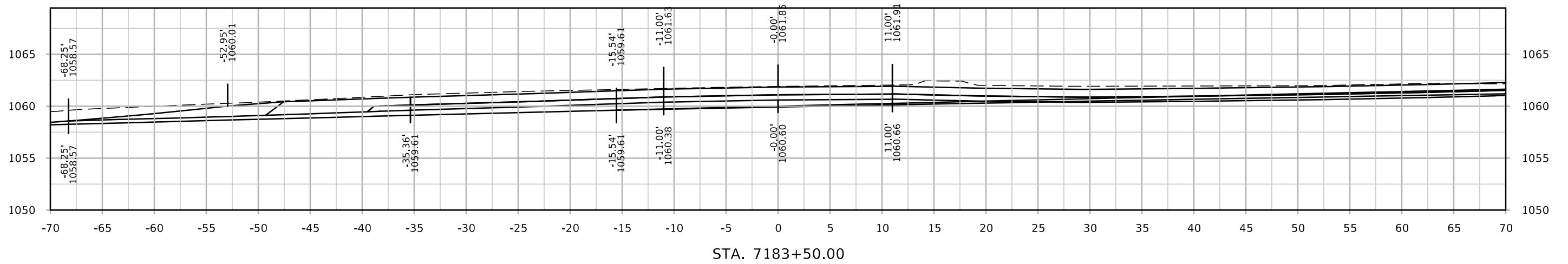
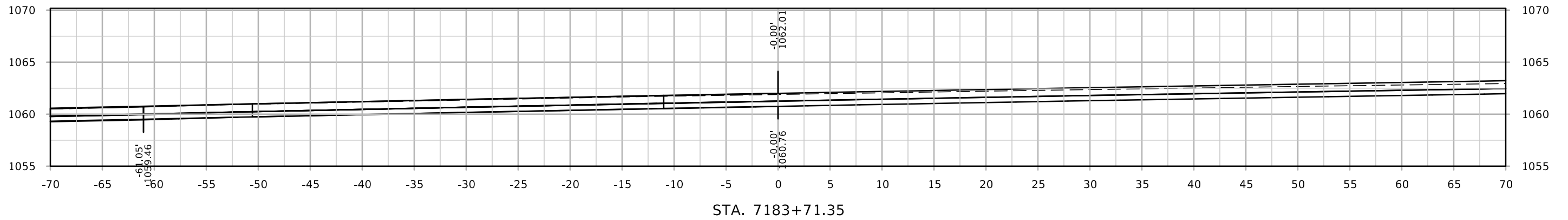
# 165th St



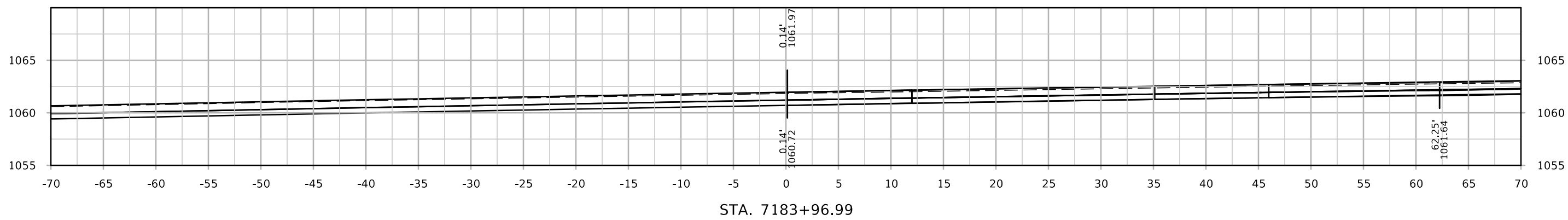
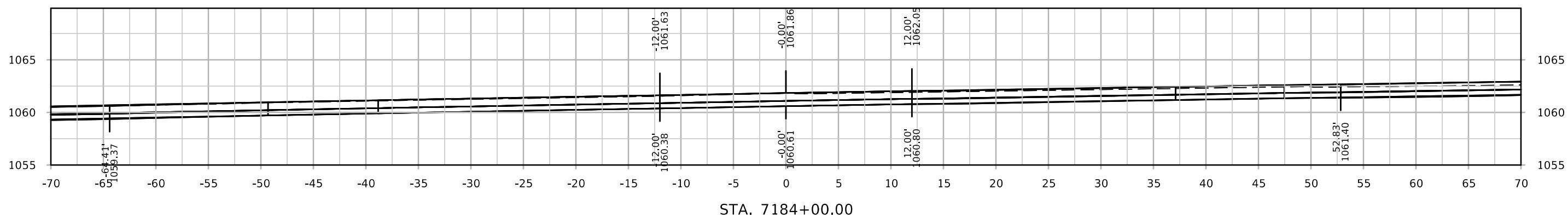
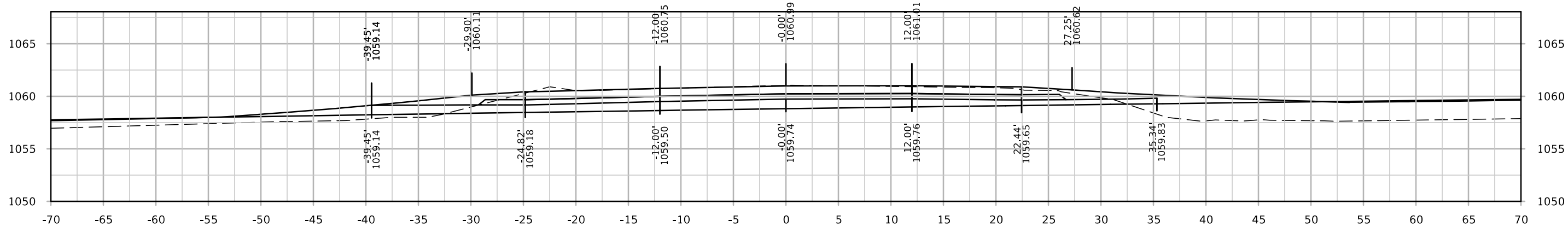
# 165th St



# 165th St

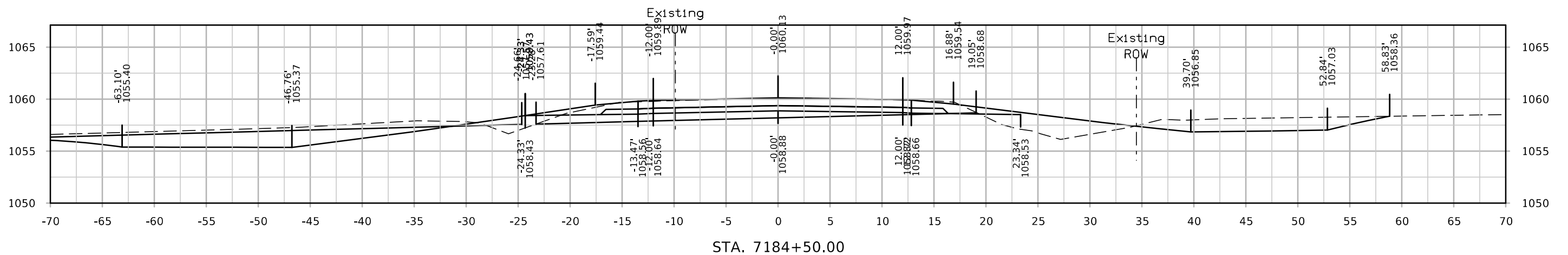
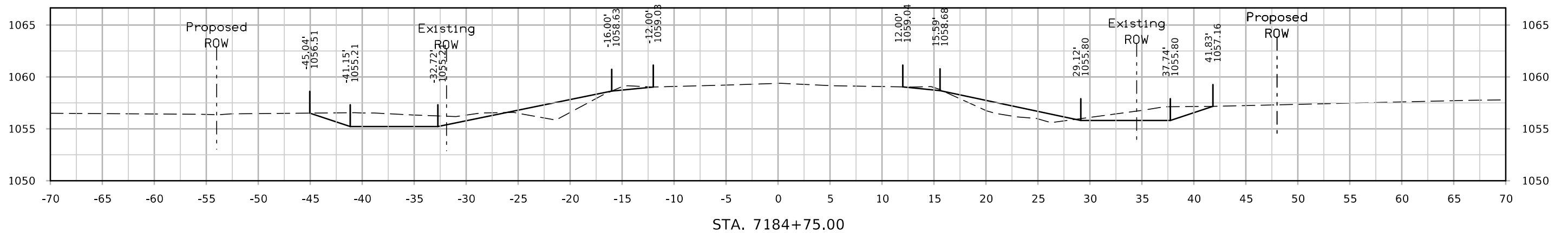
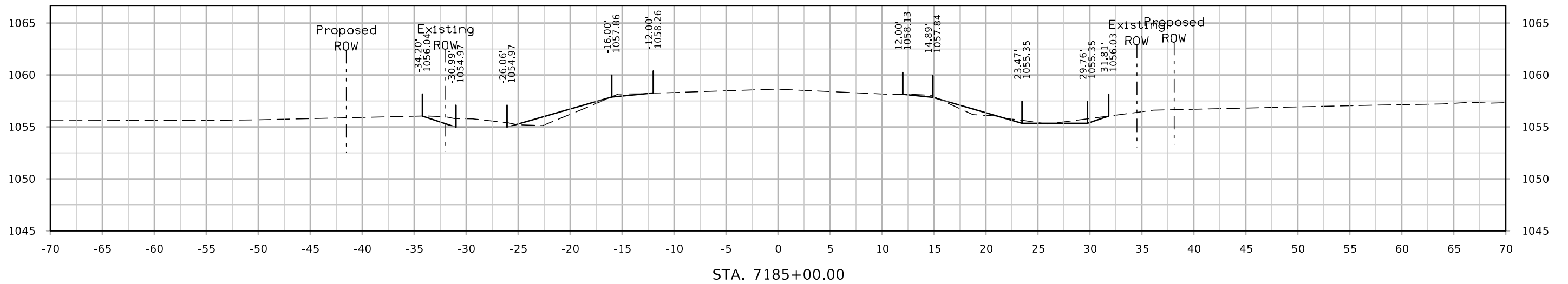


# 165th St

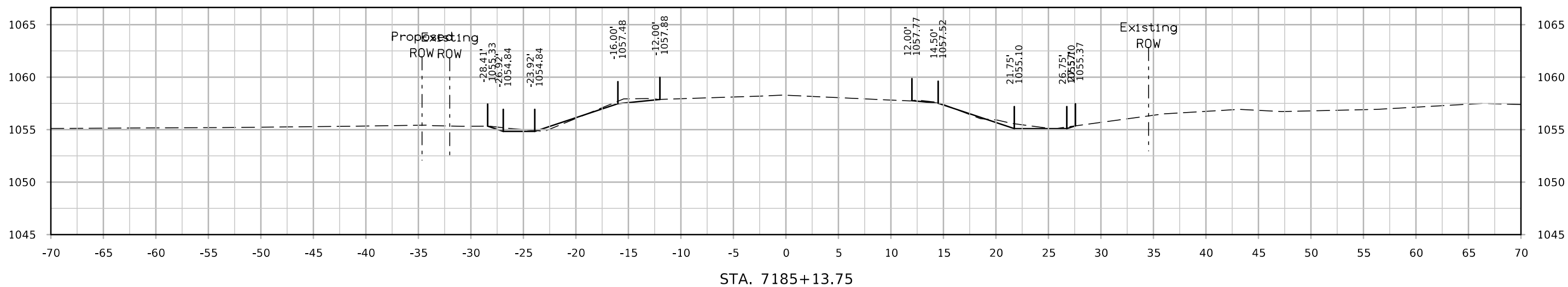




# 165th St

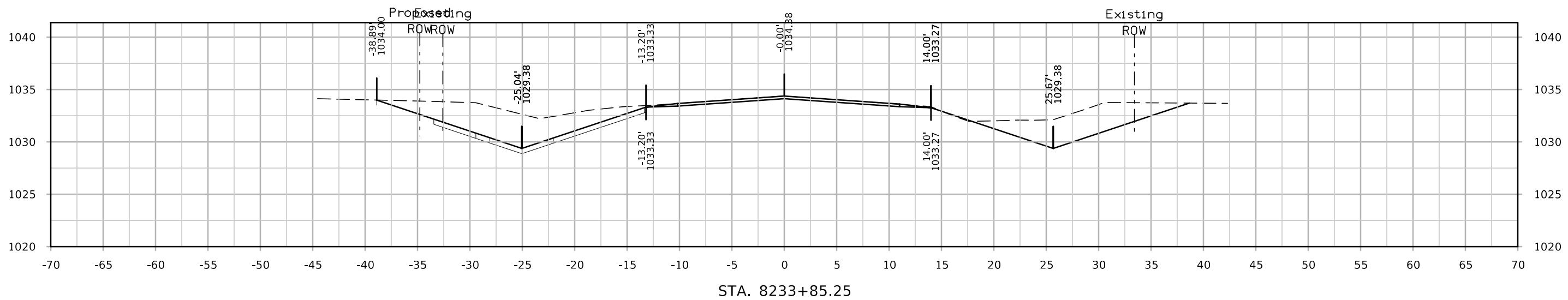
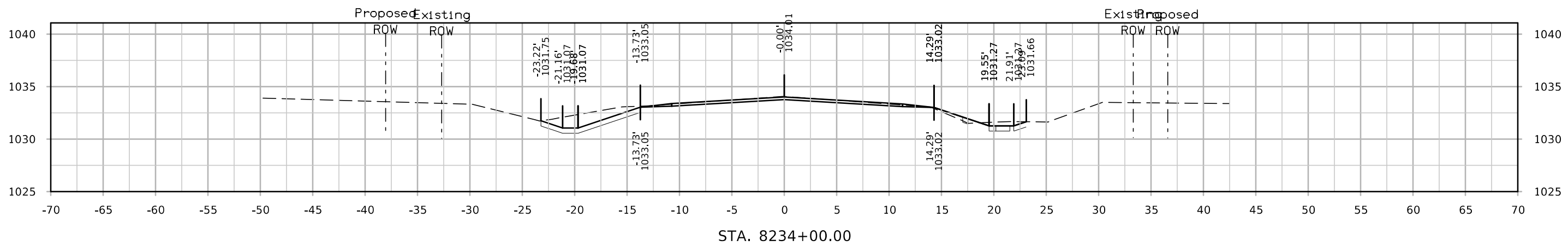
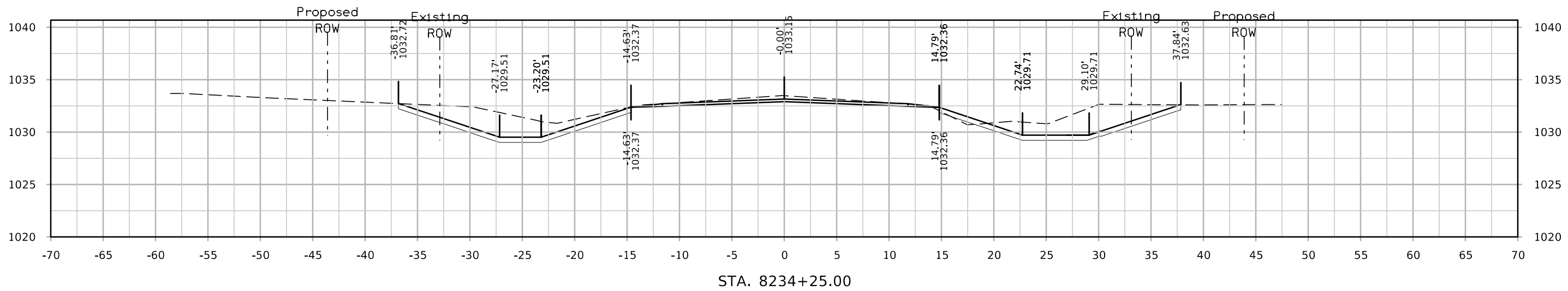


# 165th St

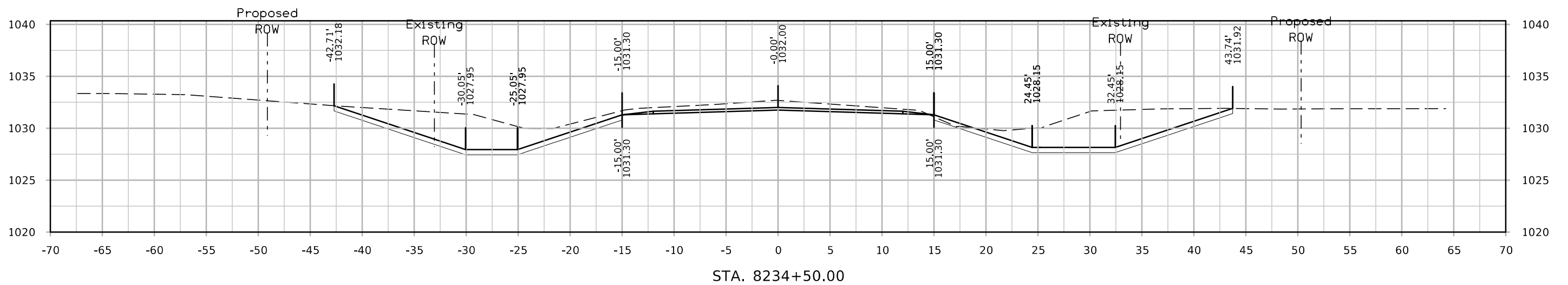
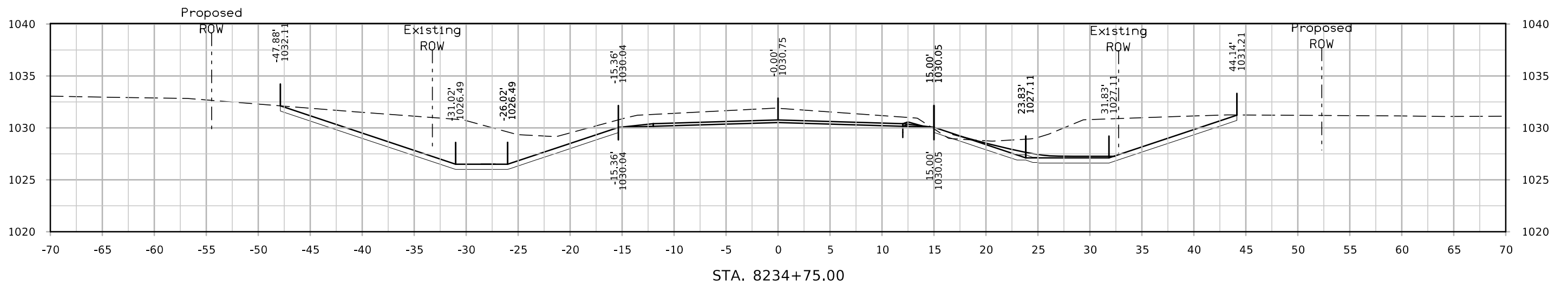
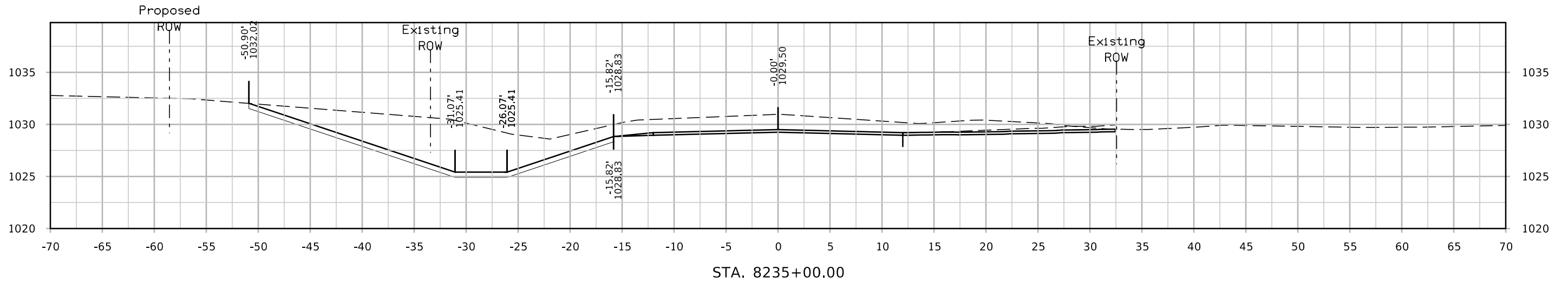


STA. 7185+13.75

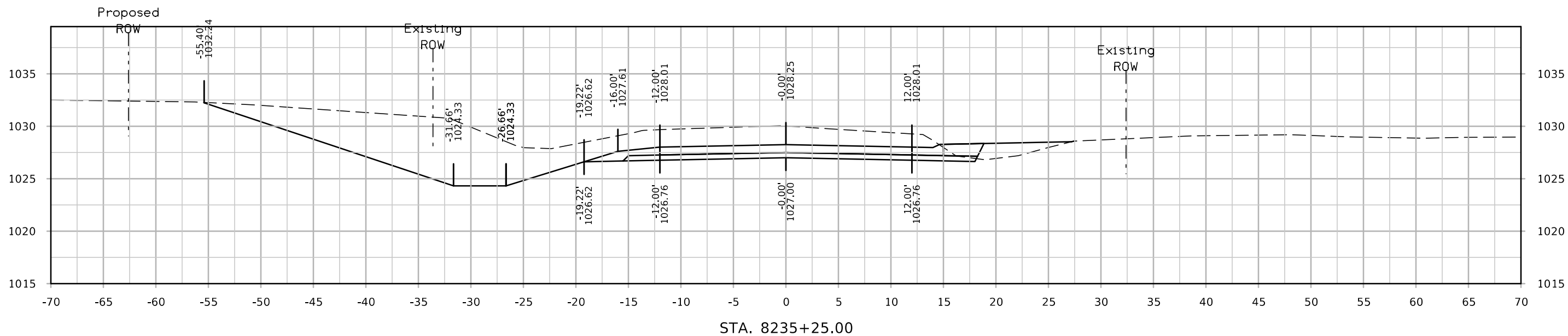
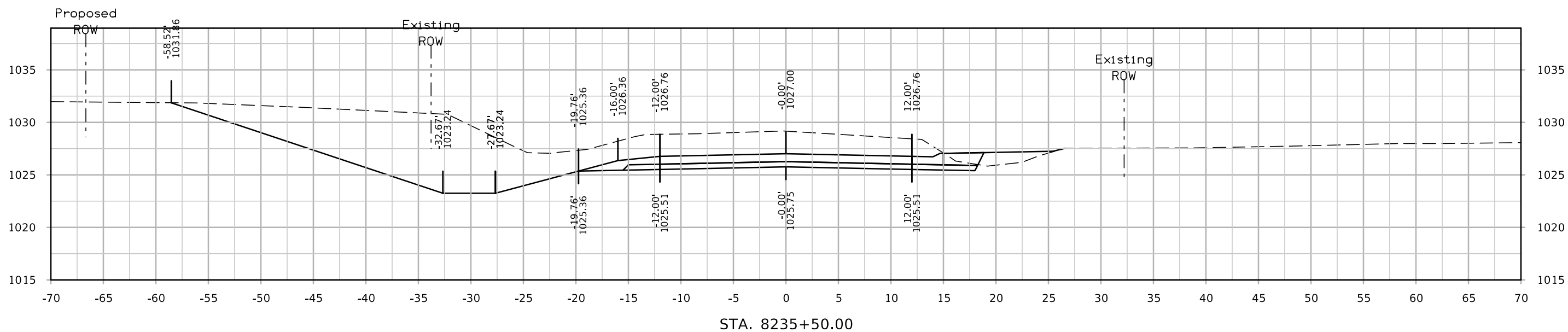
# 155th St



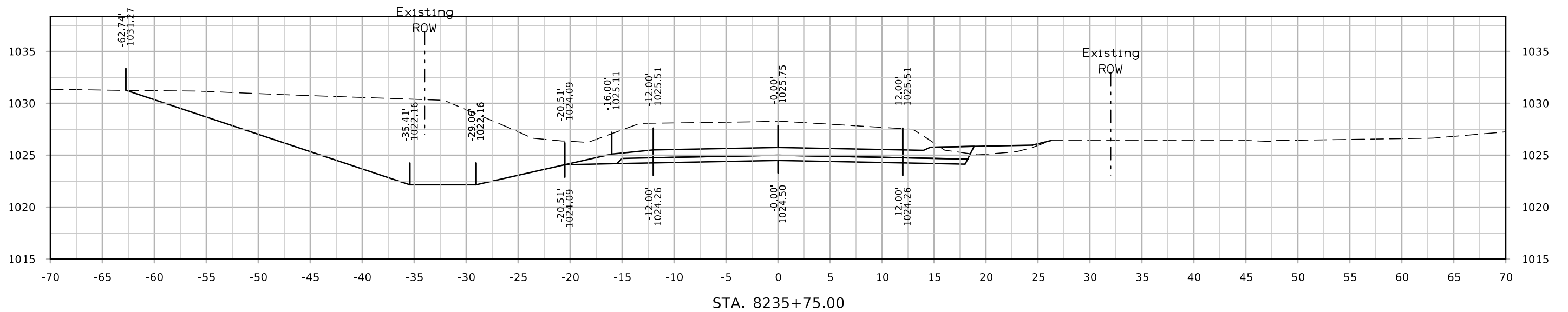
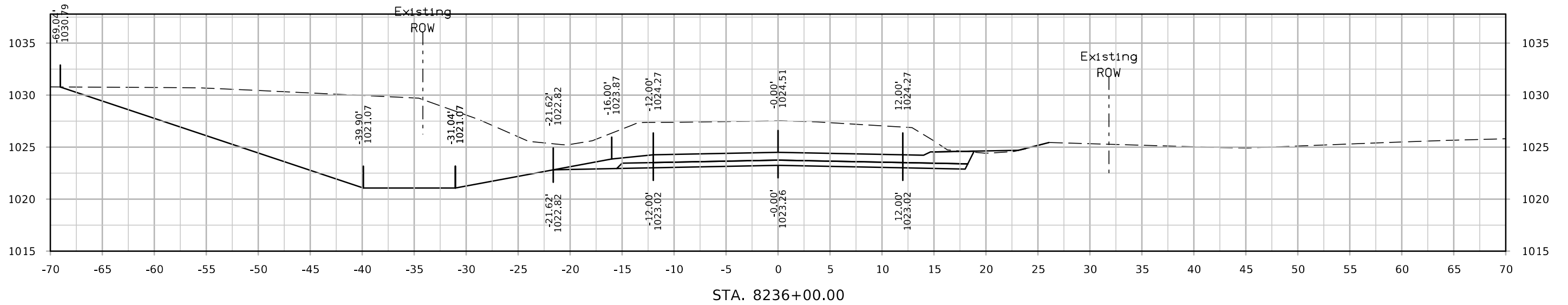
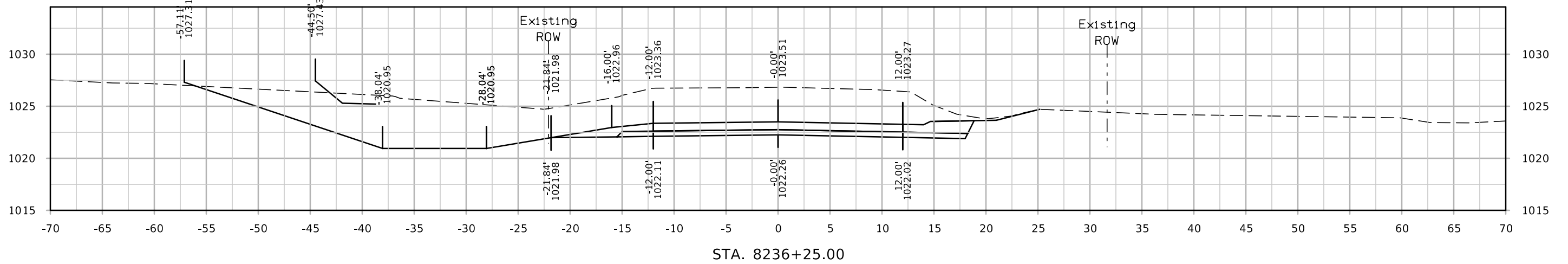
# 155th St



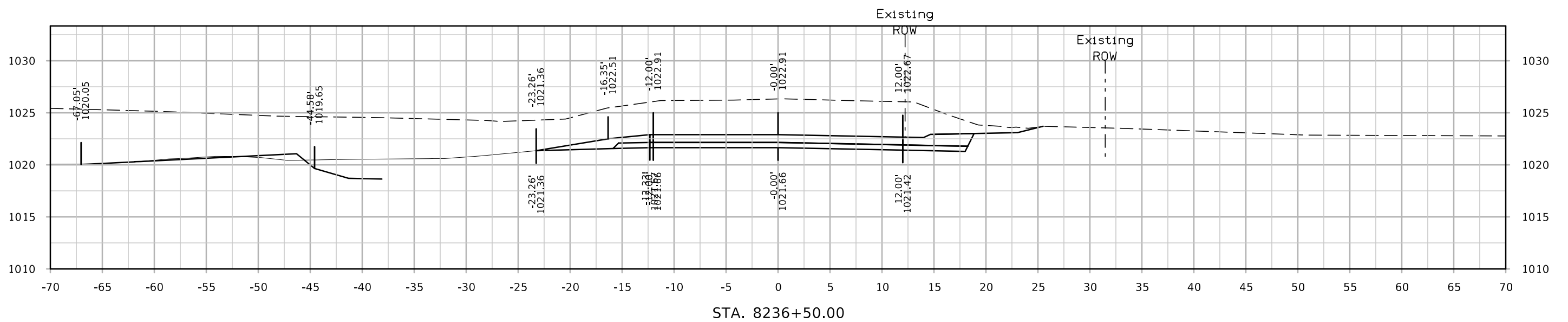
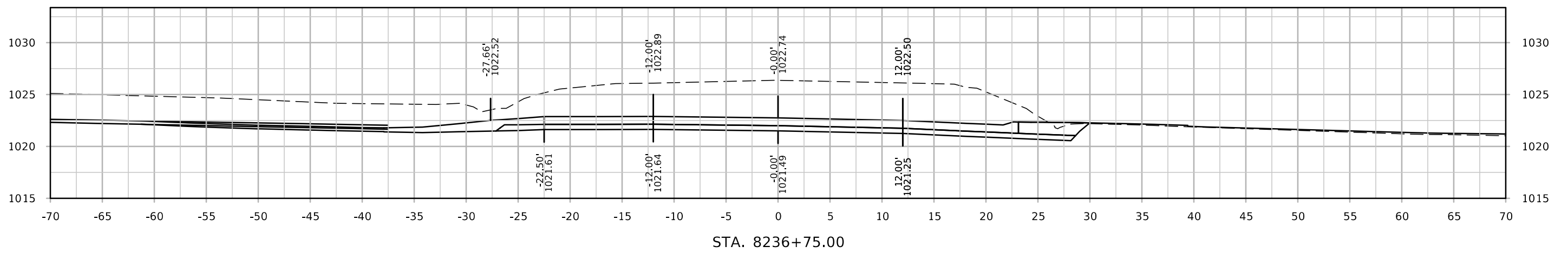
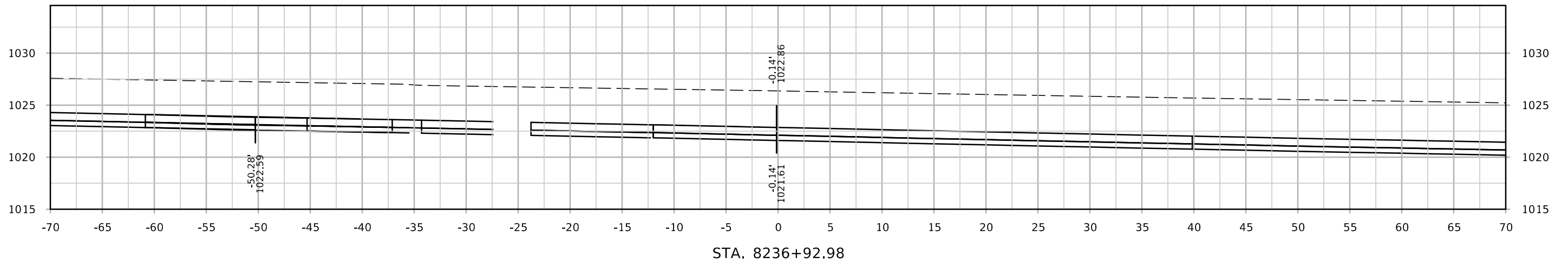
# 155th St

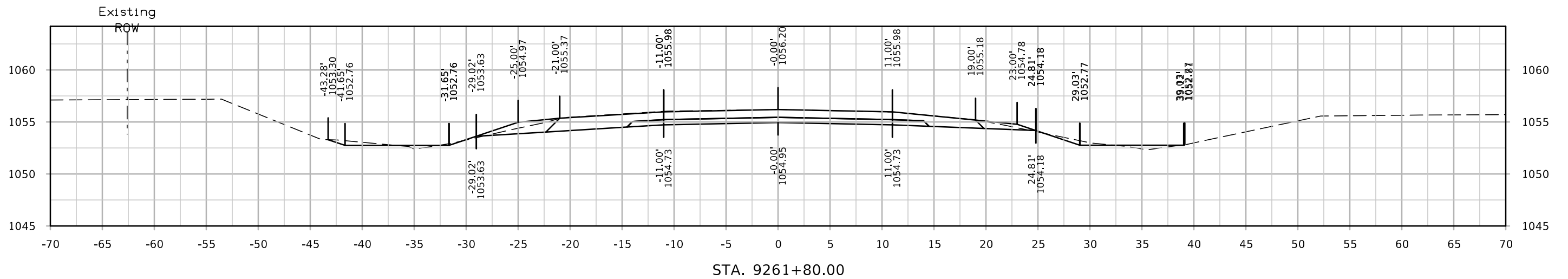
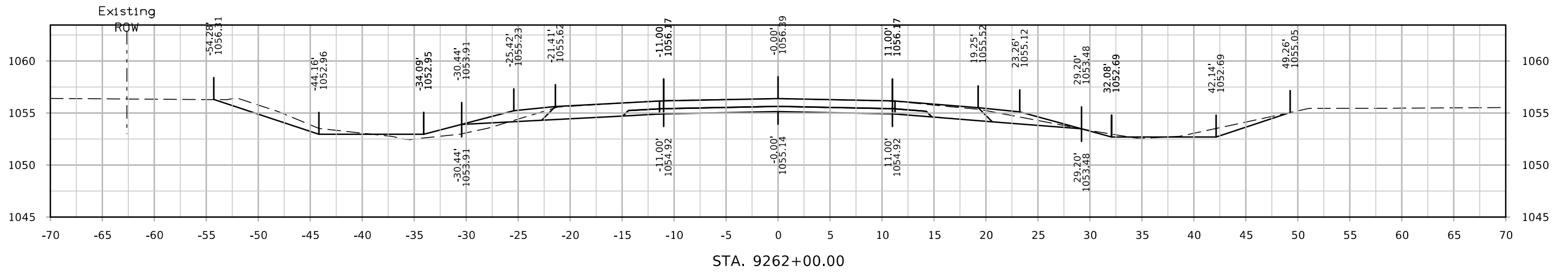
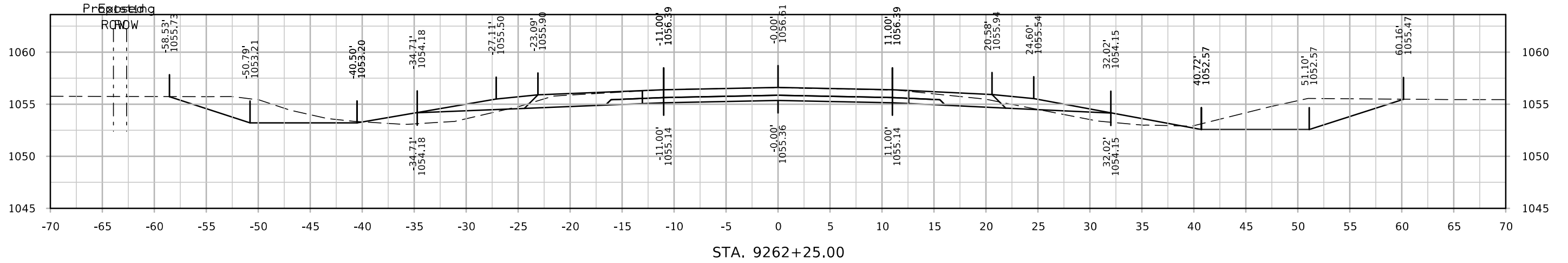


# 155th St

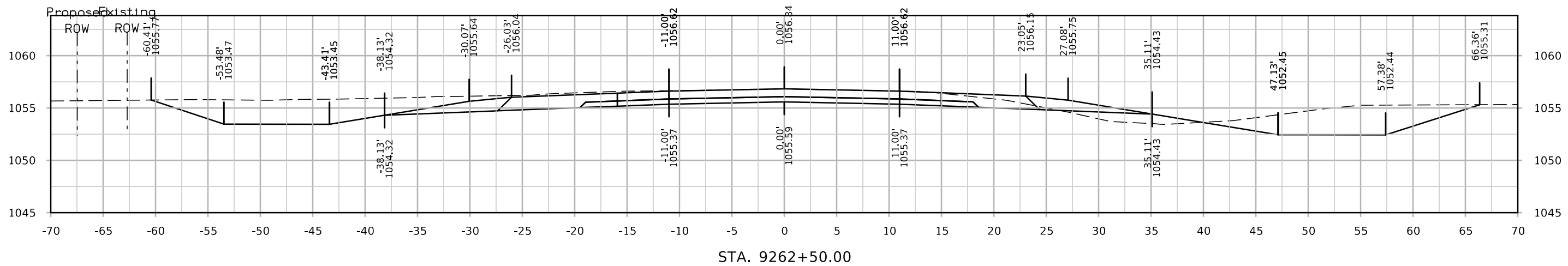
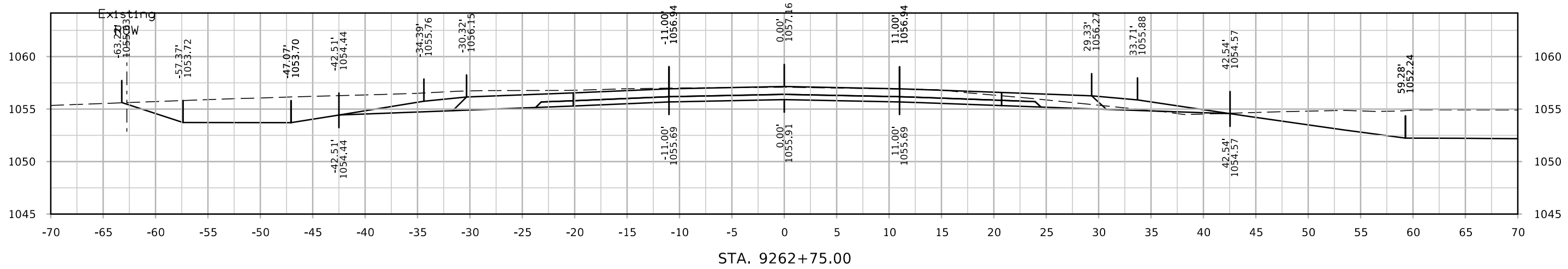
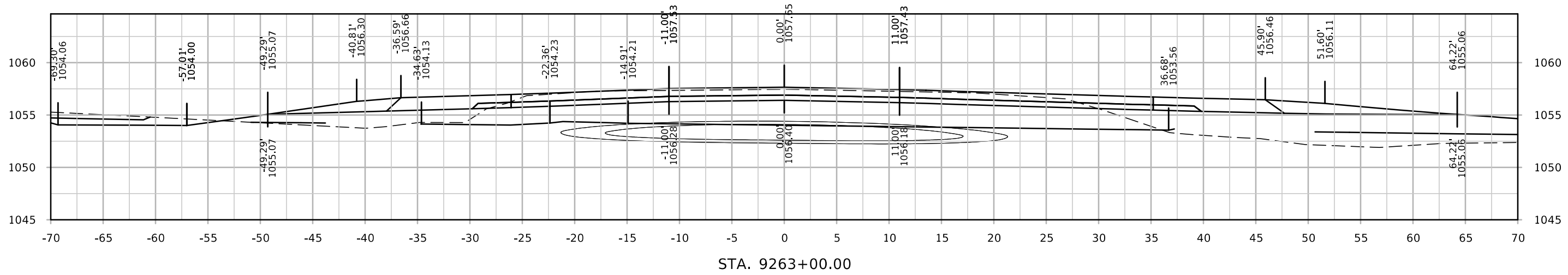


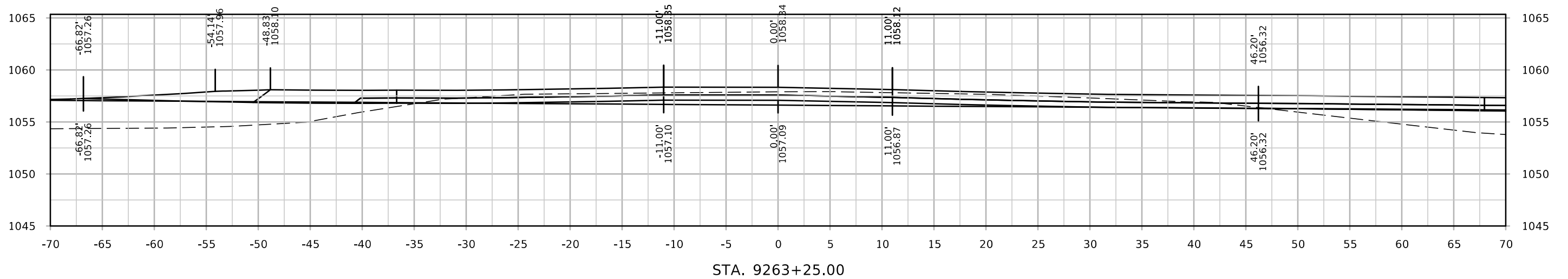
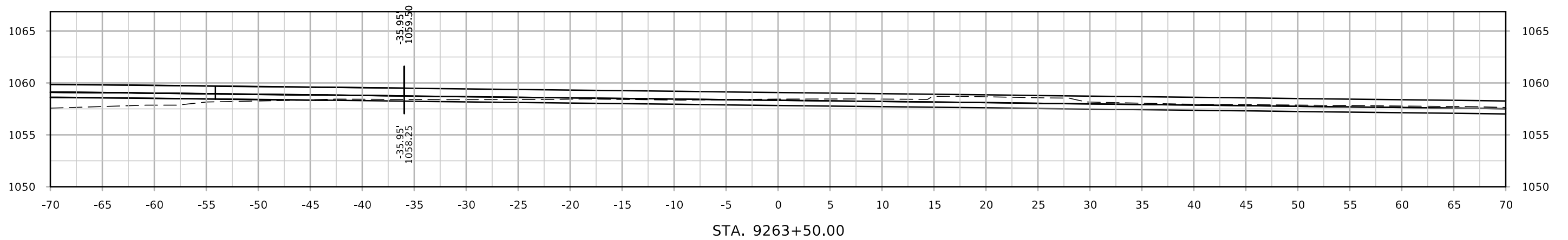
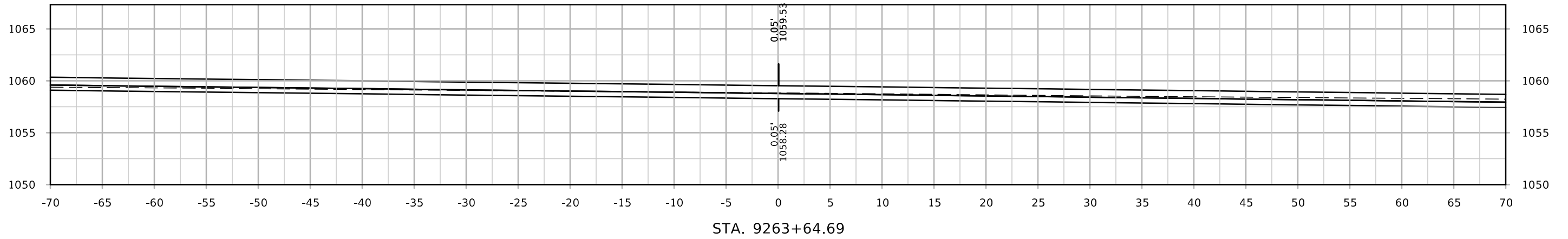
# 155th St

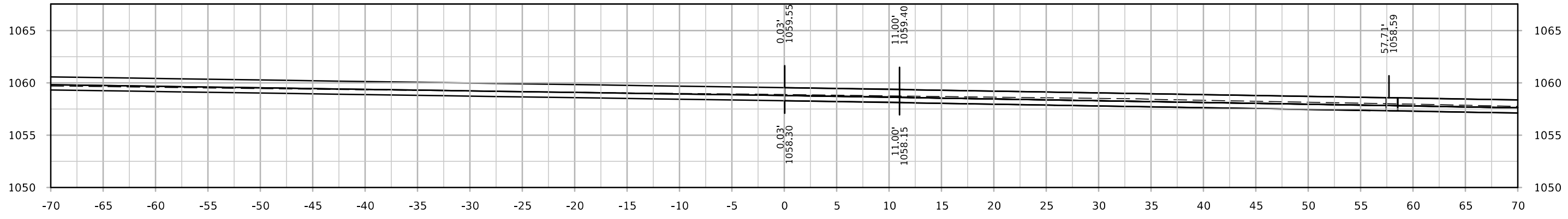
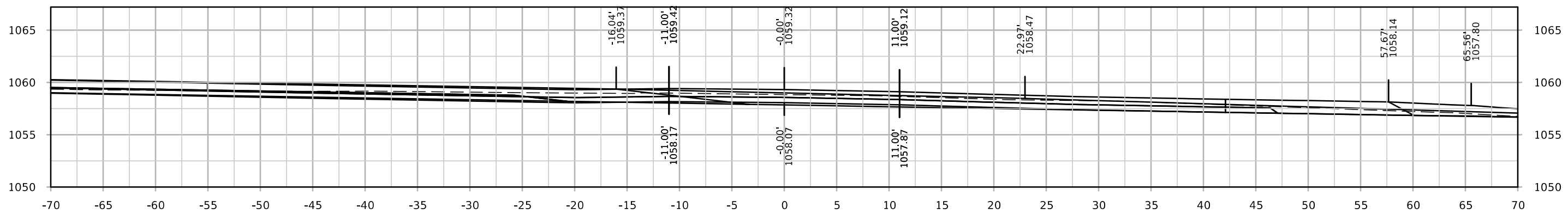
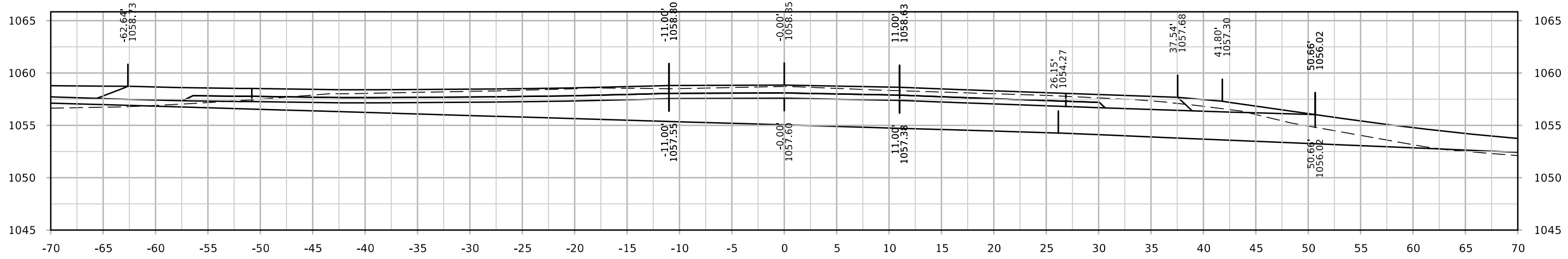




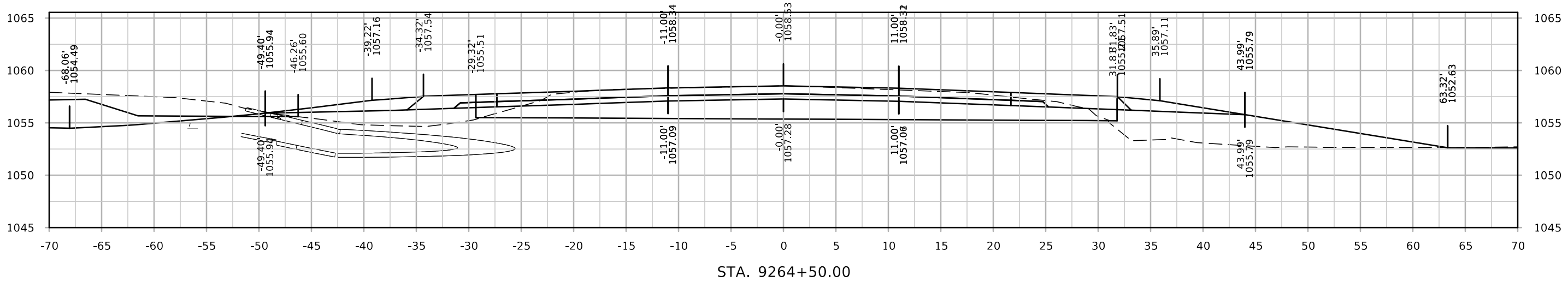
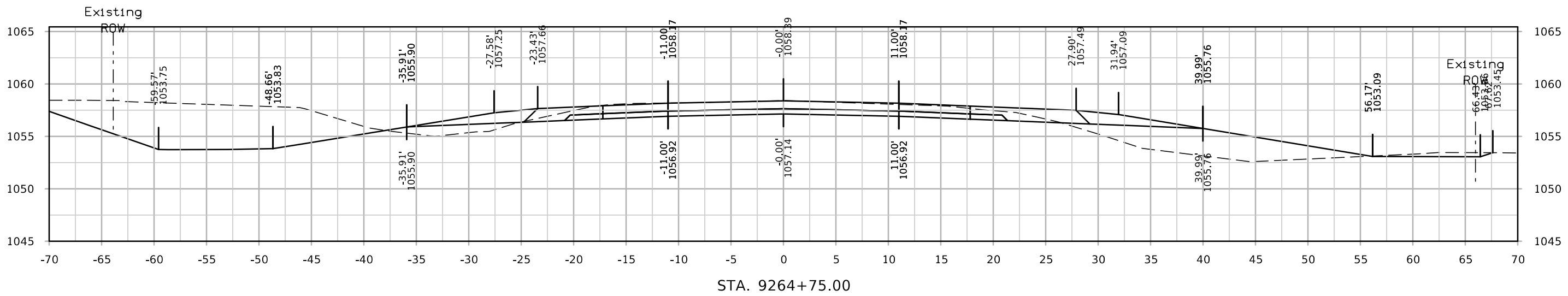
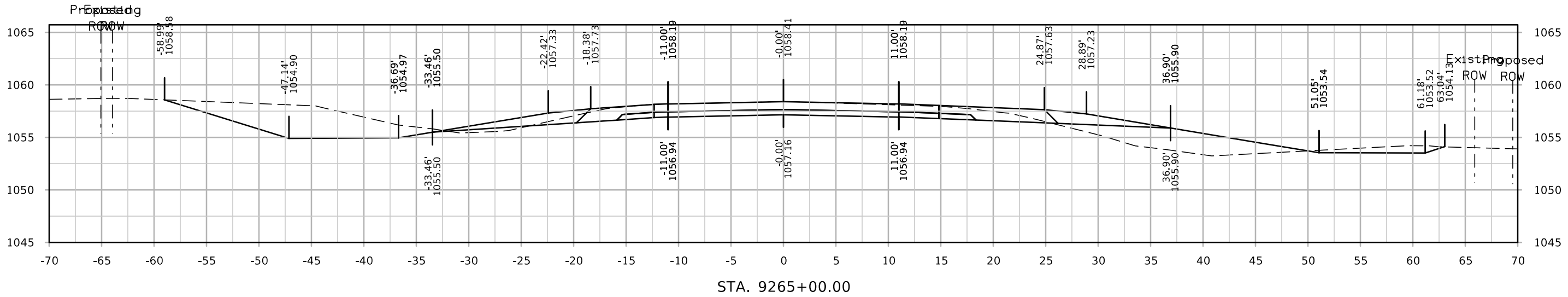


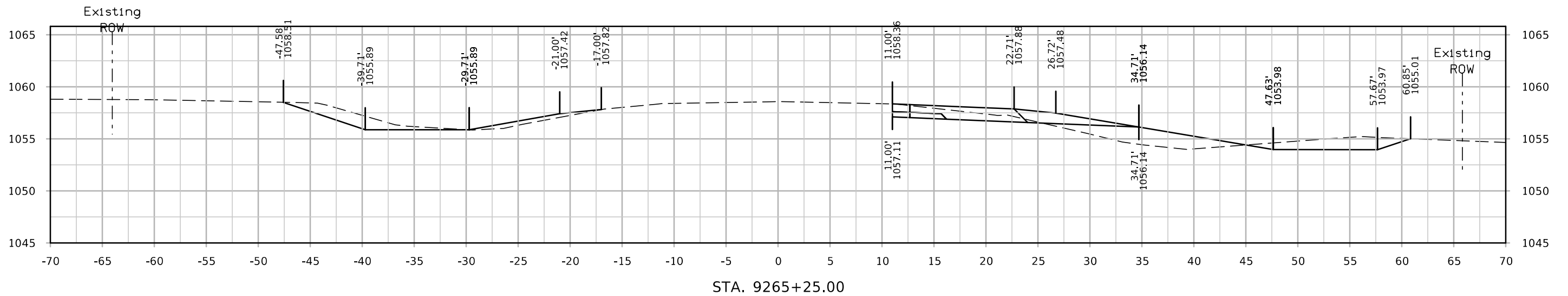
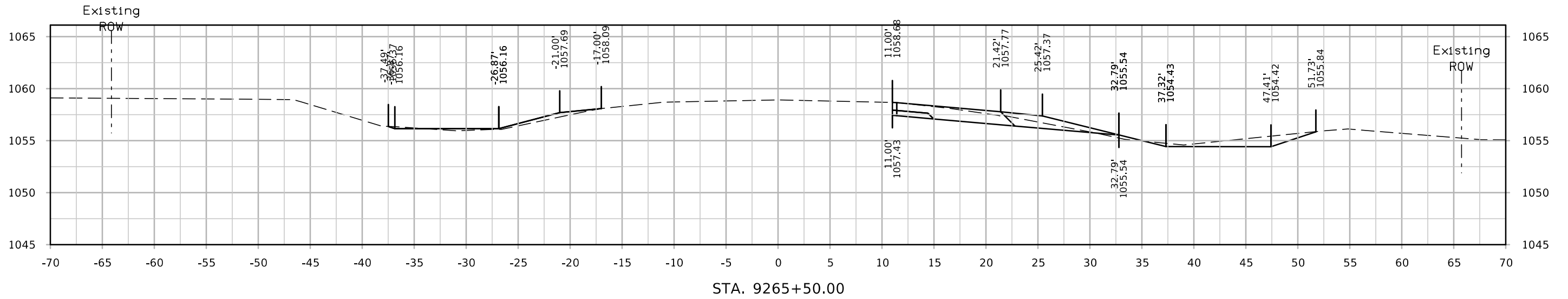
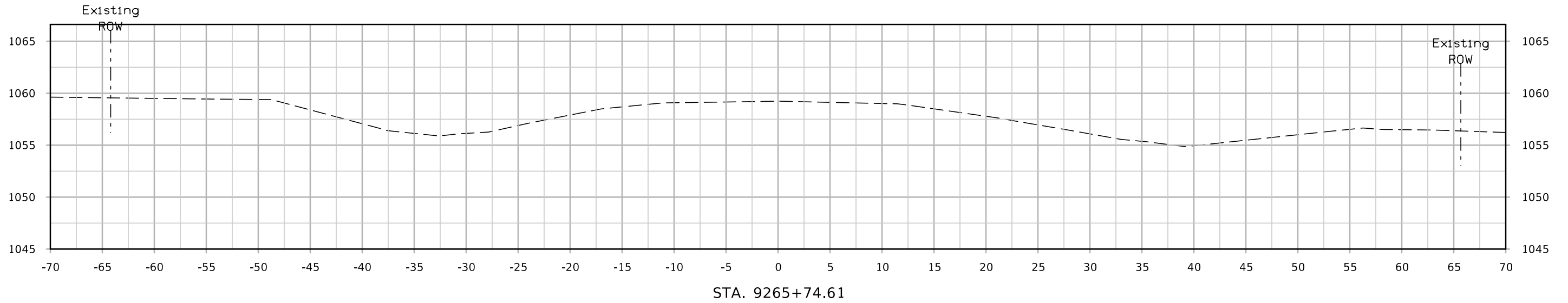




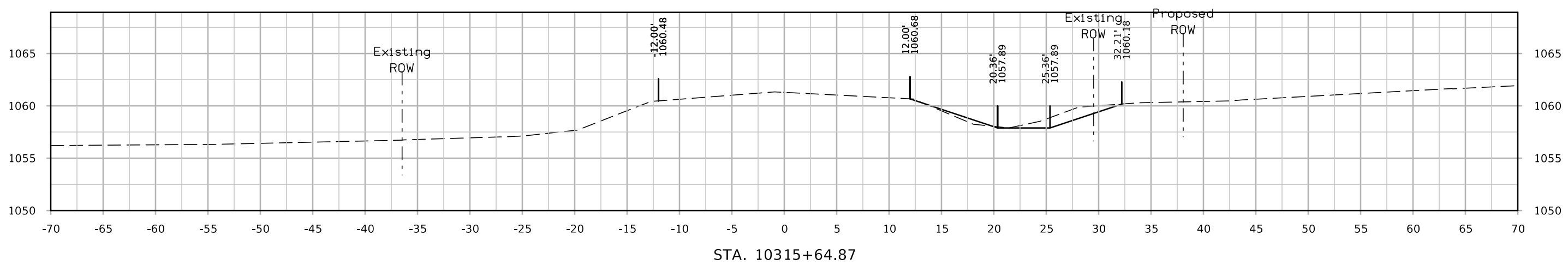
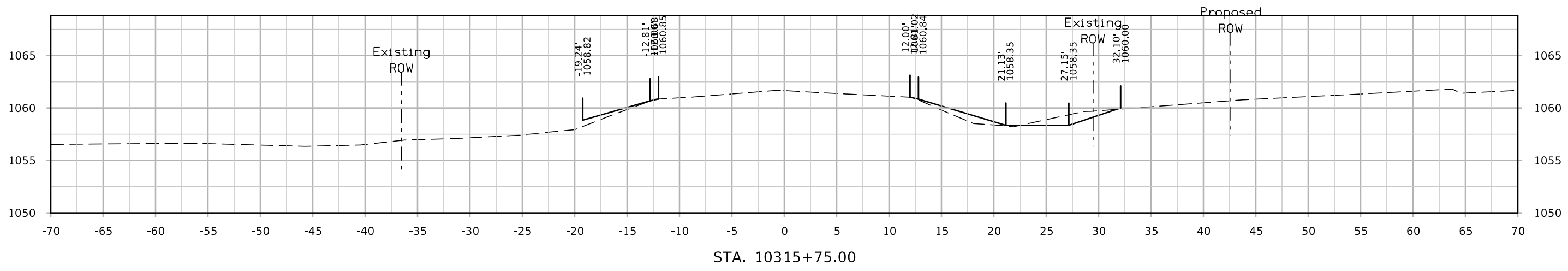
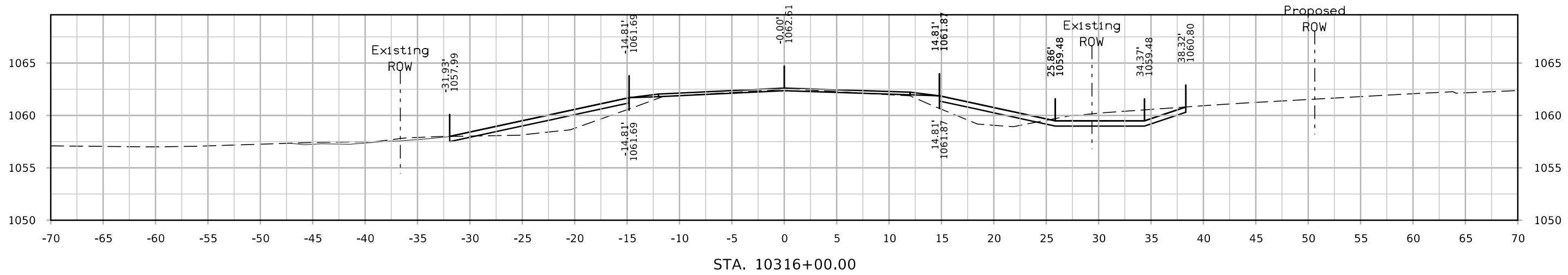


# C64

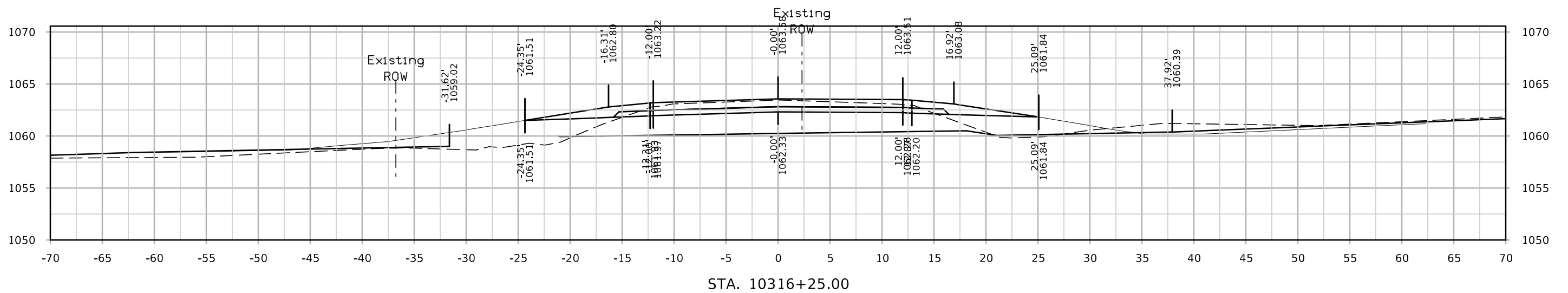
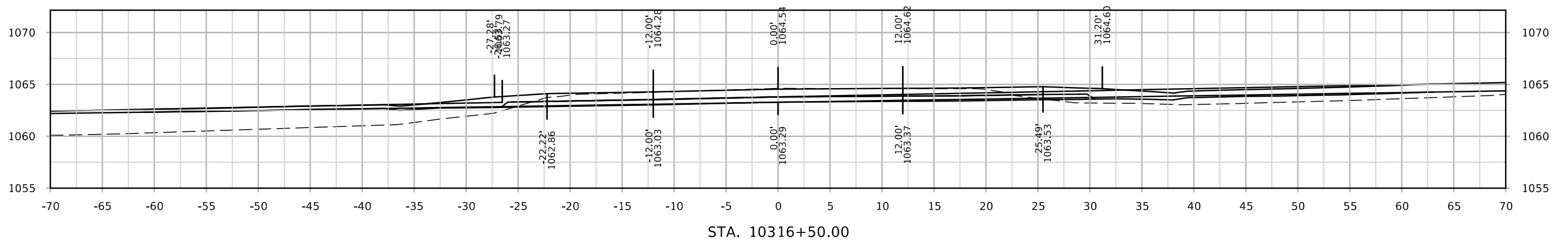
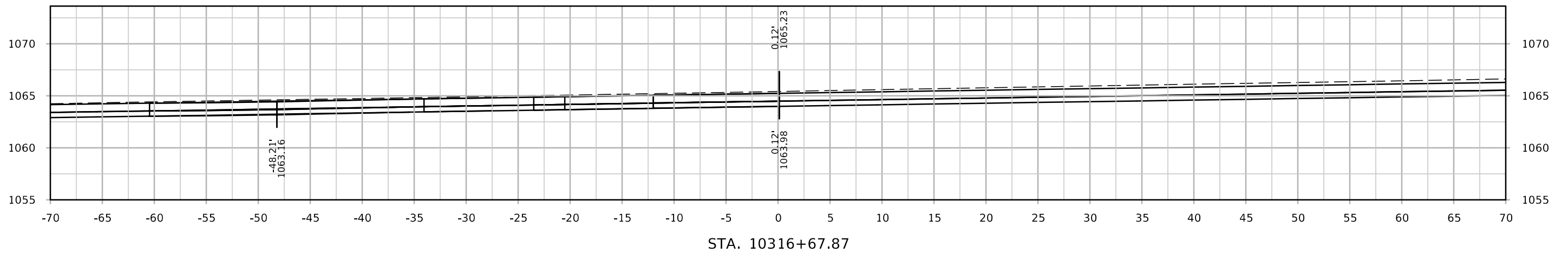




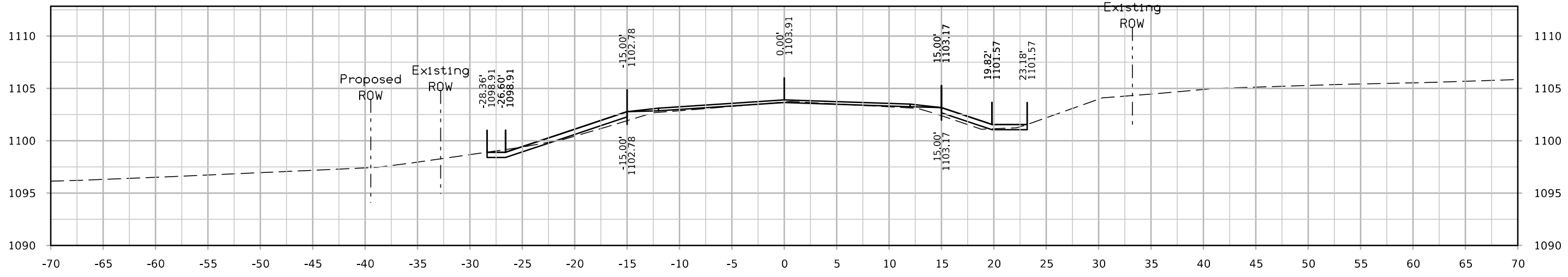
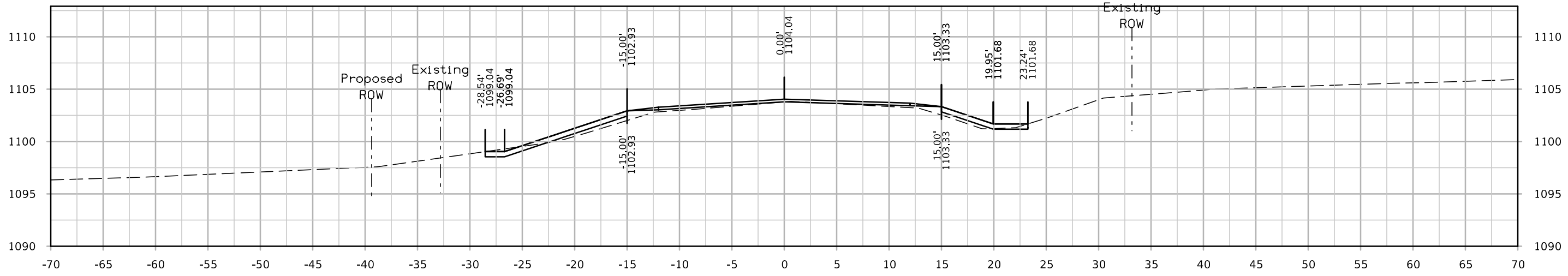
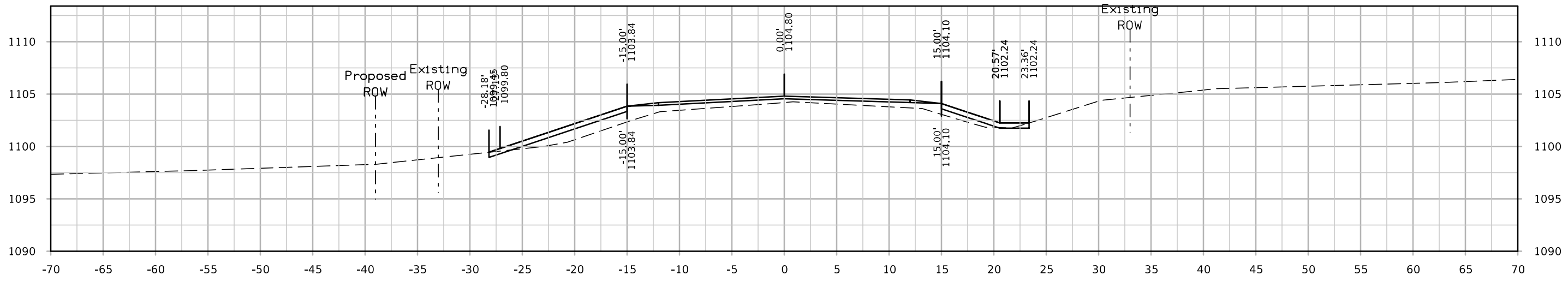
# 140th St



# 140th St

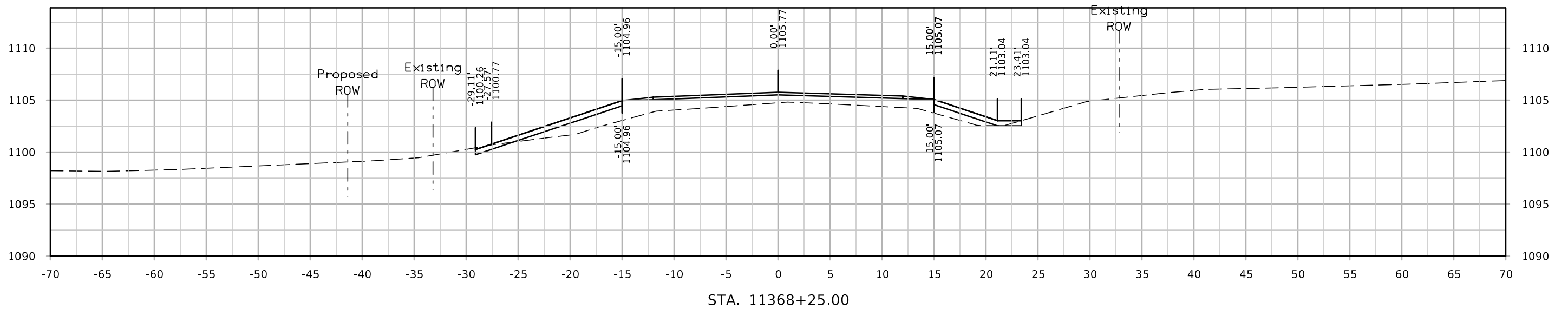
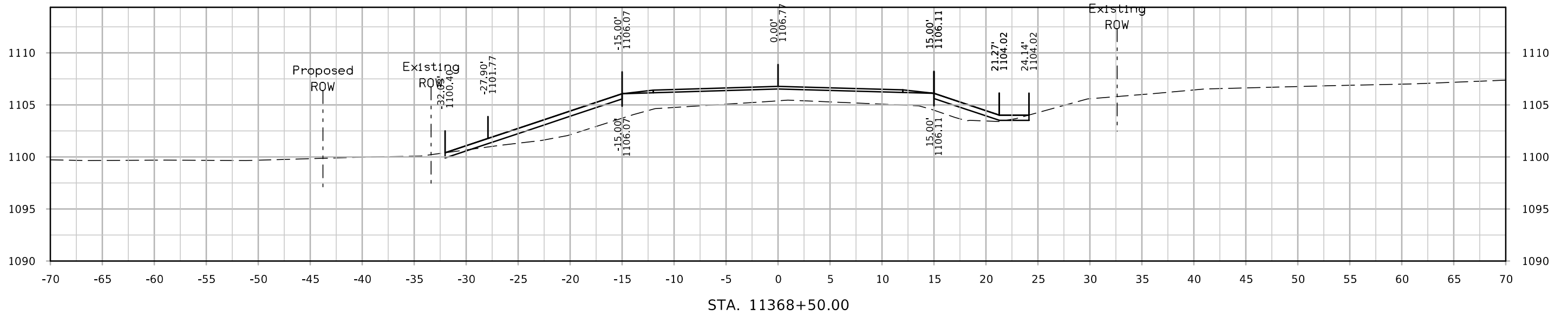
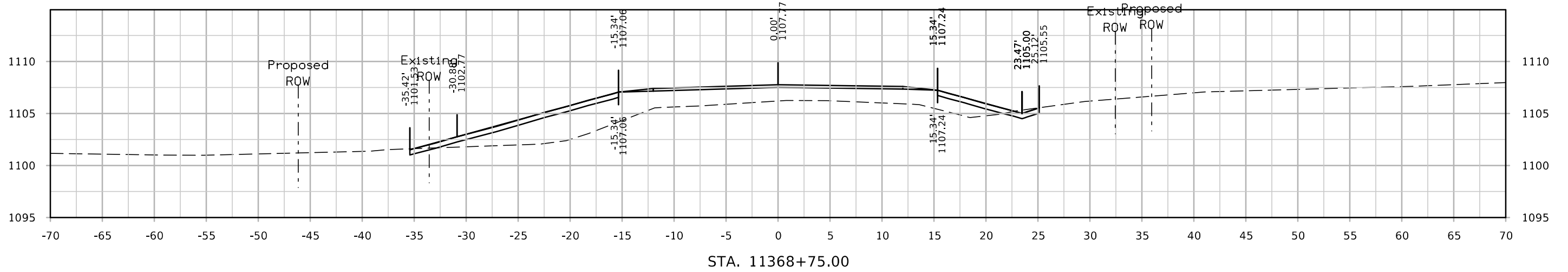


# 130th St

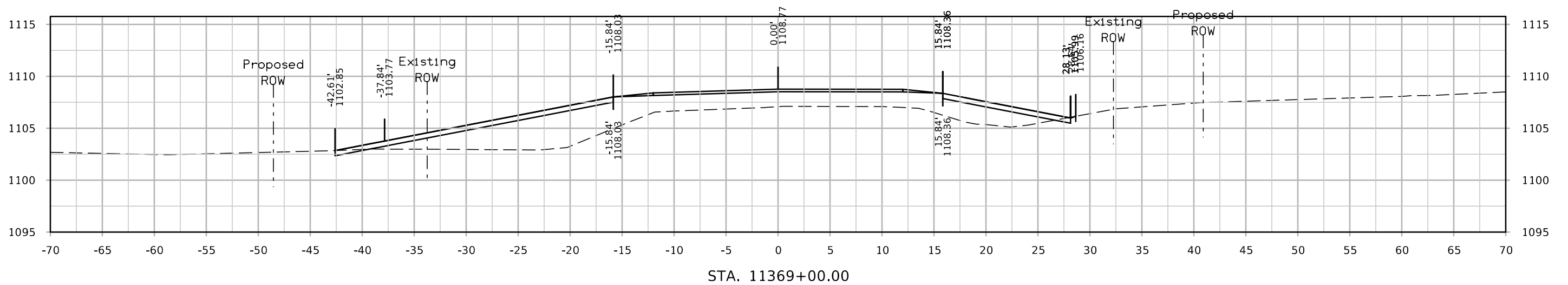
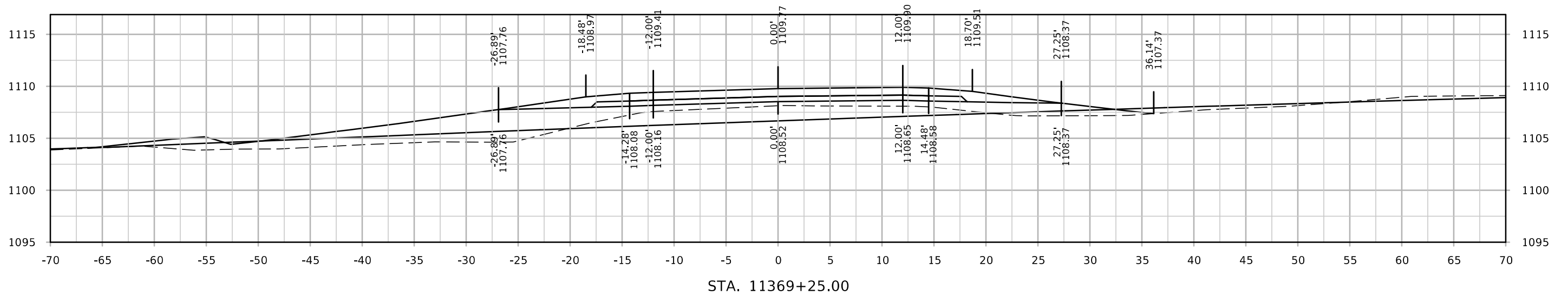
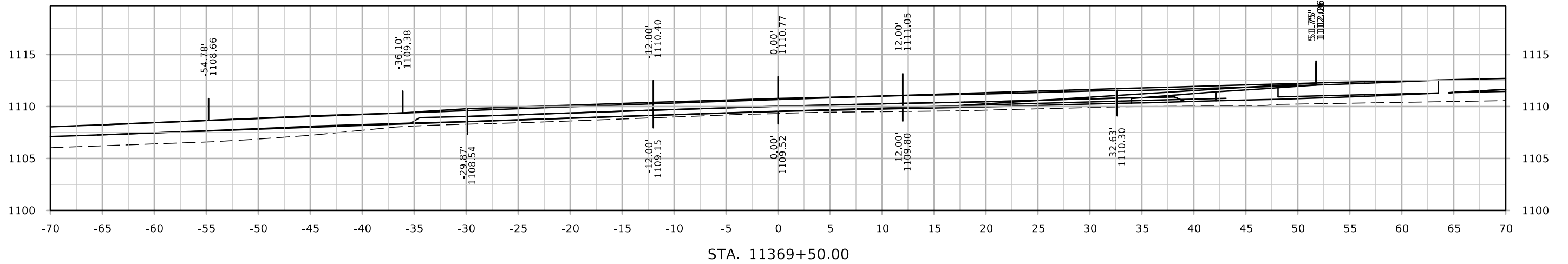




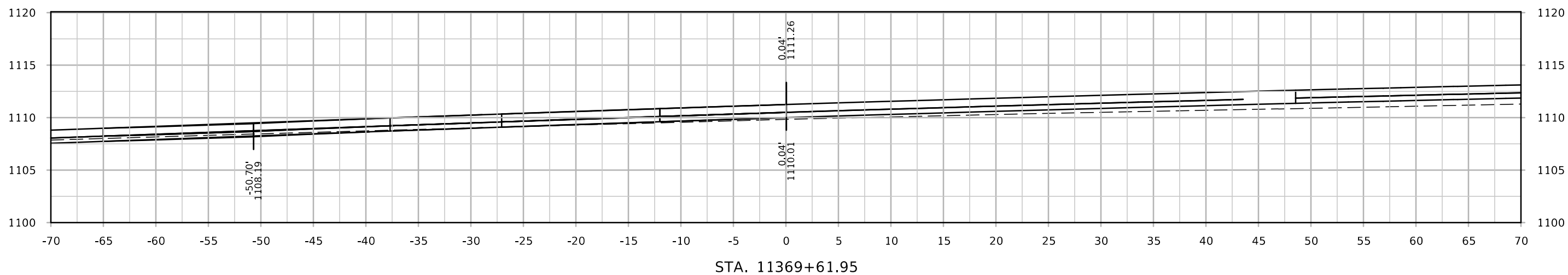
# 130th St



# 130th St

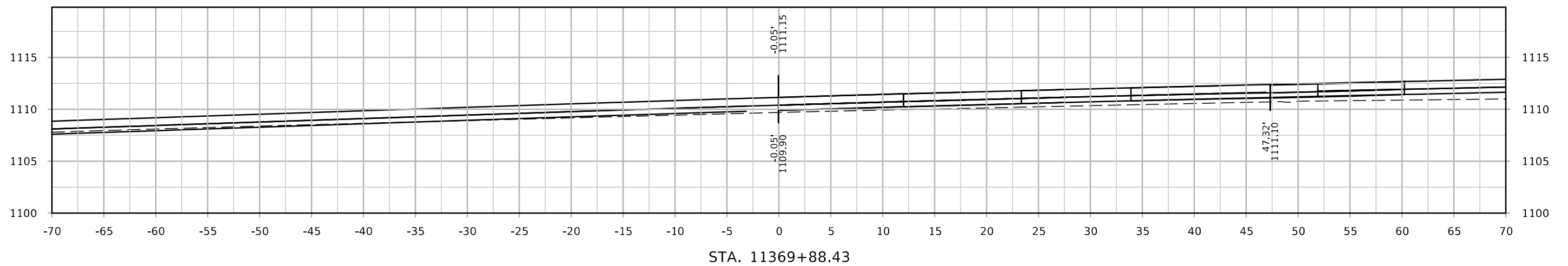
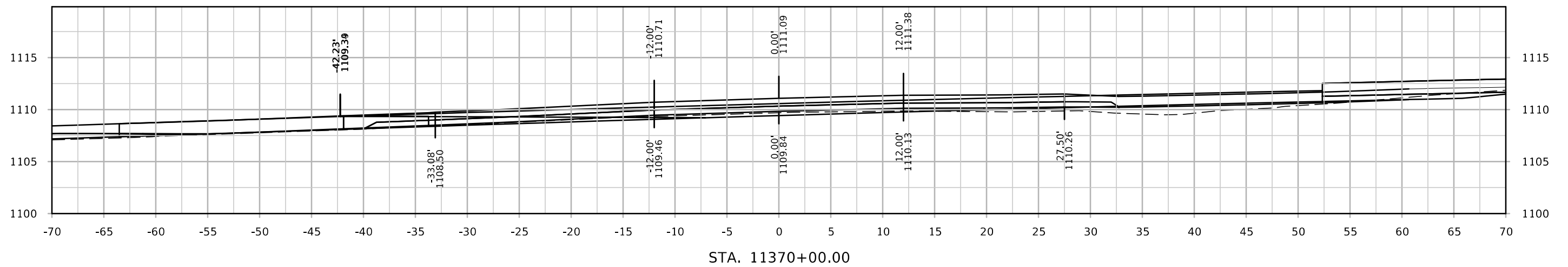
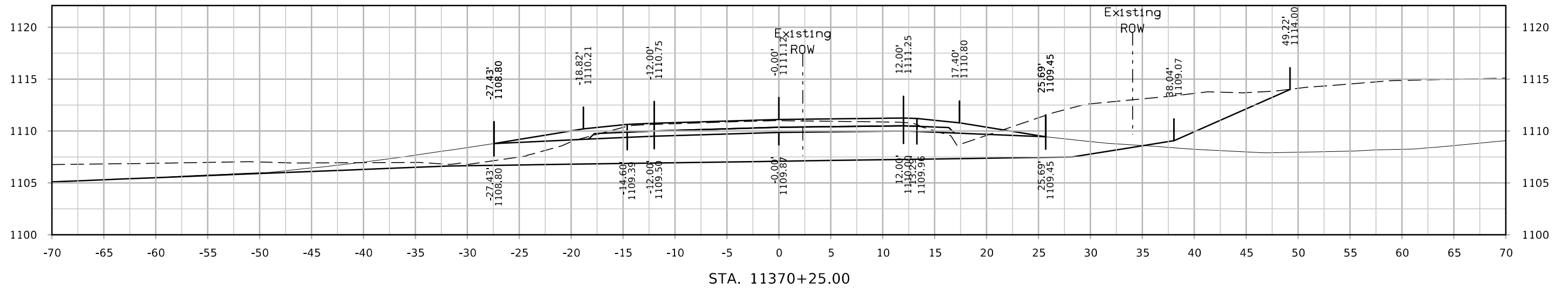


# 130th St

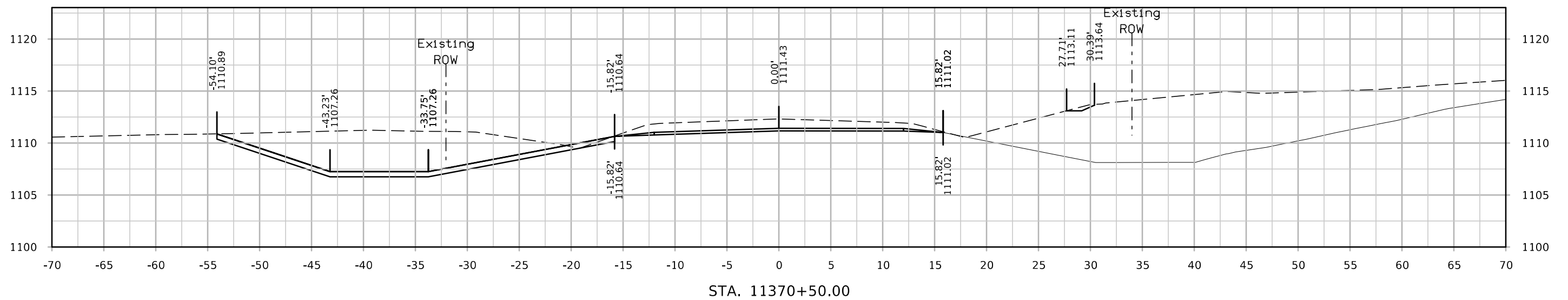
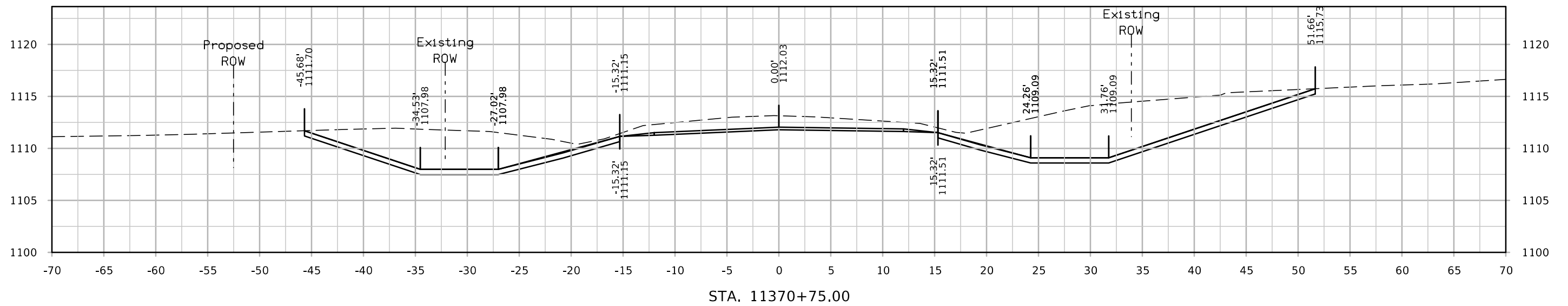


STA. 11369+61.95

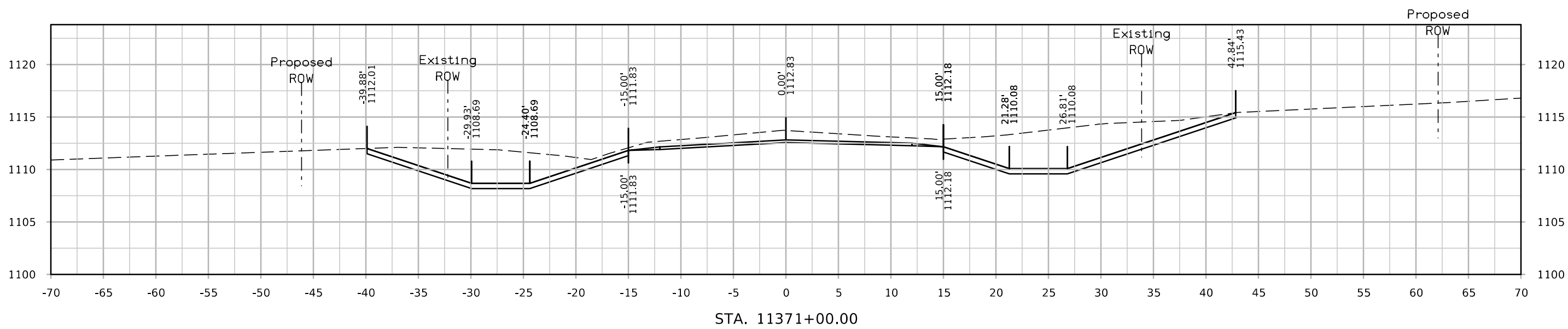
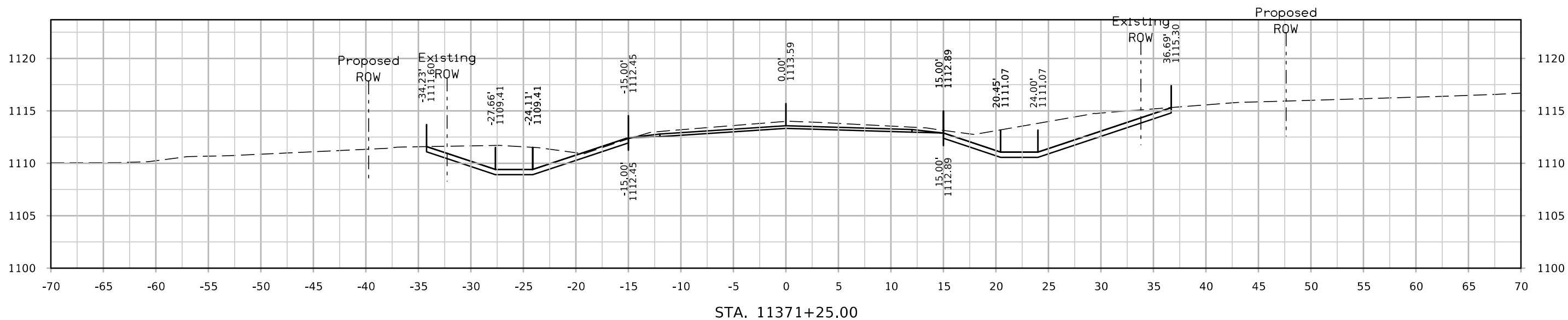
# 130th St



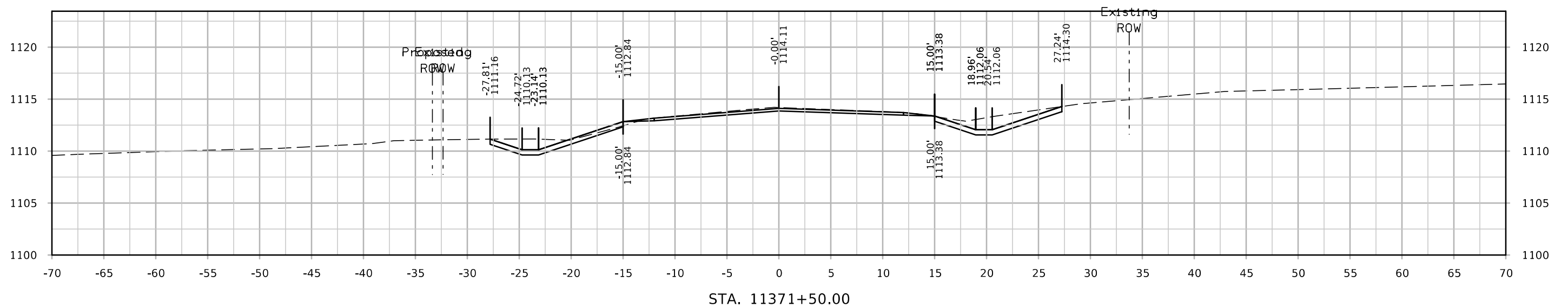
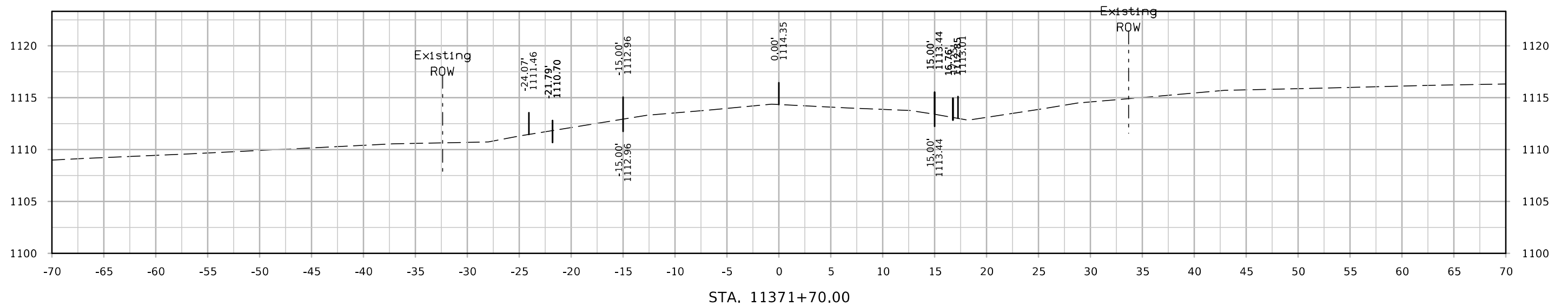
# 130th St



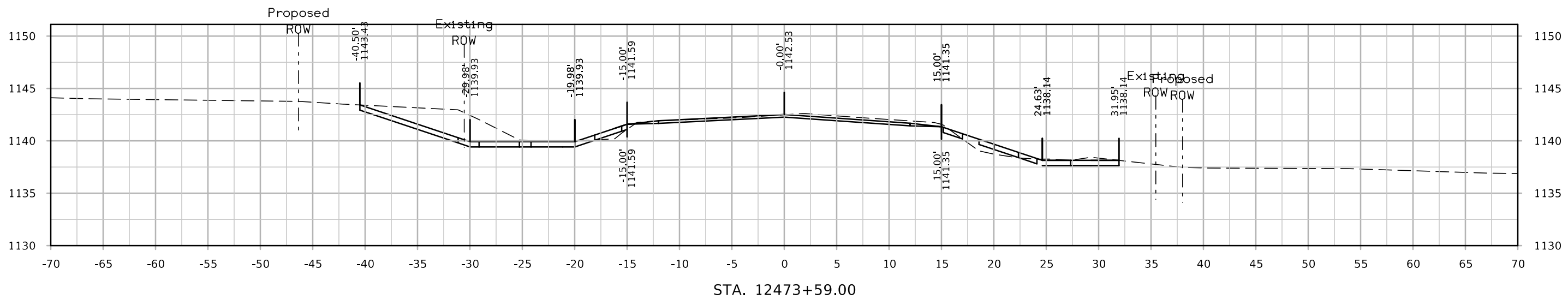
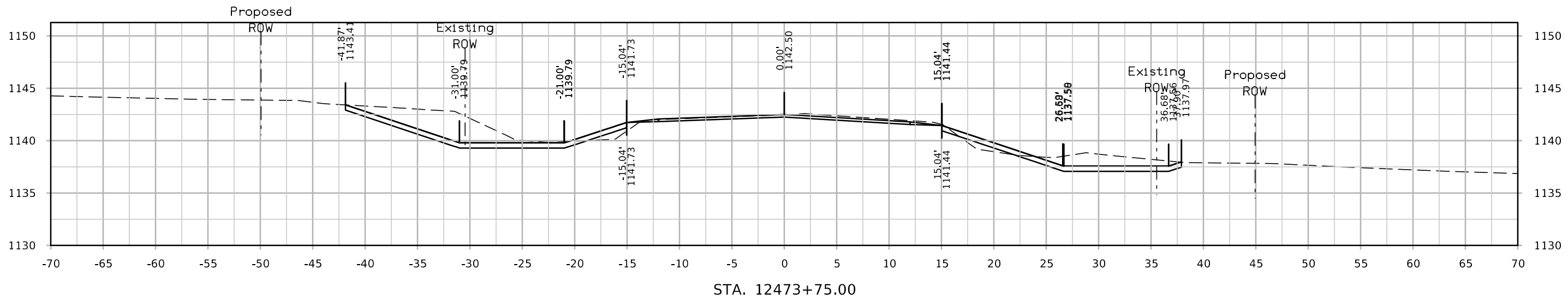
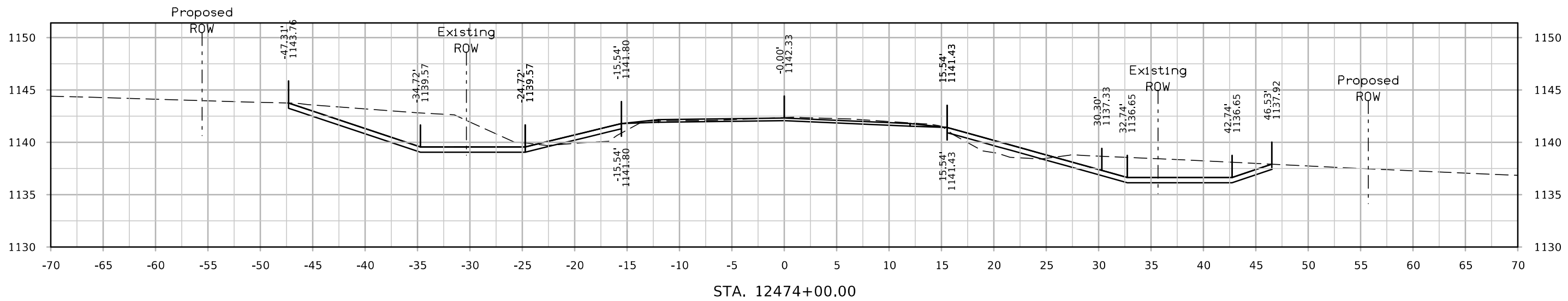
# 130th St



# 130th St

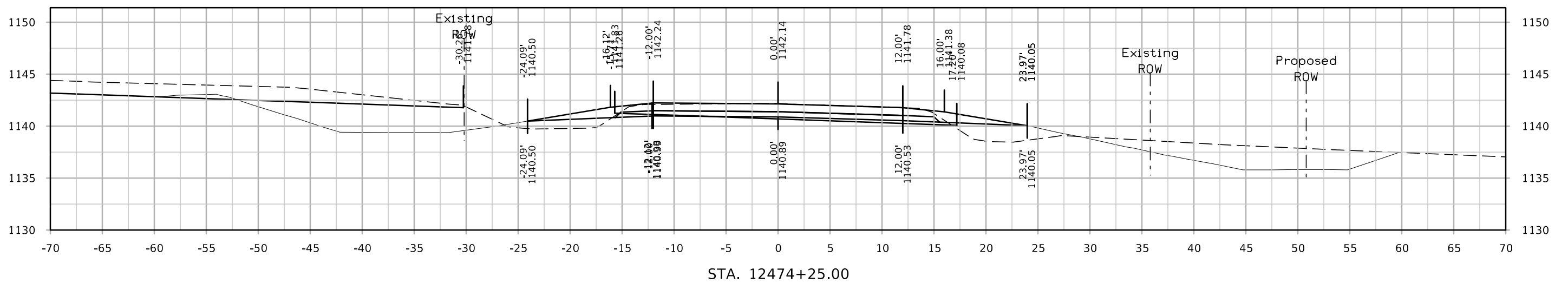
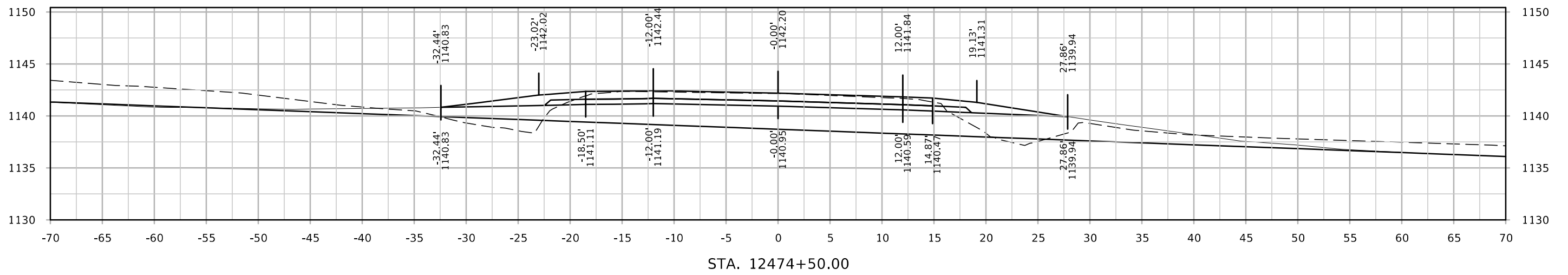
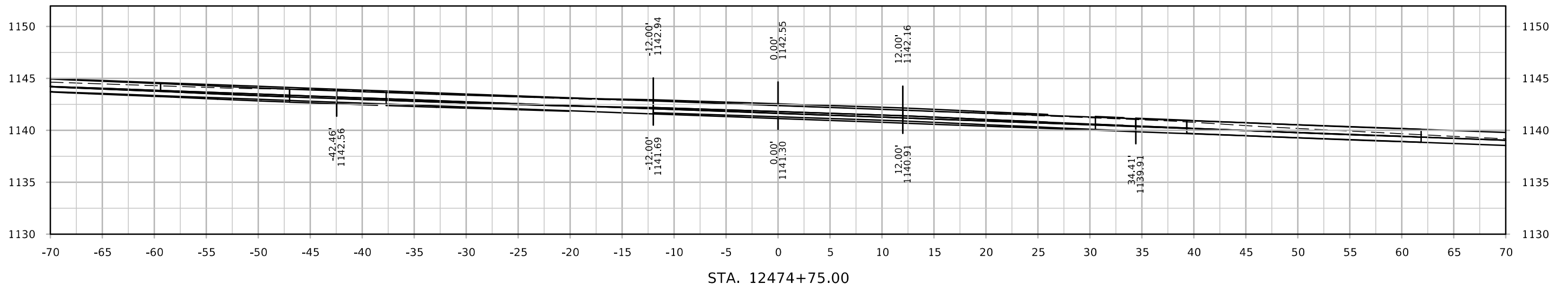


# 110th St

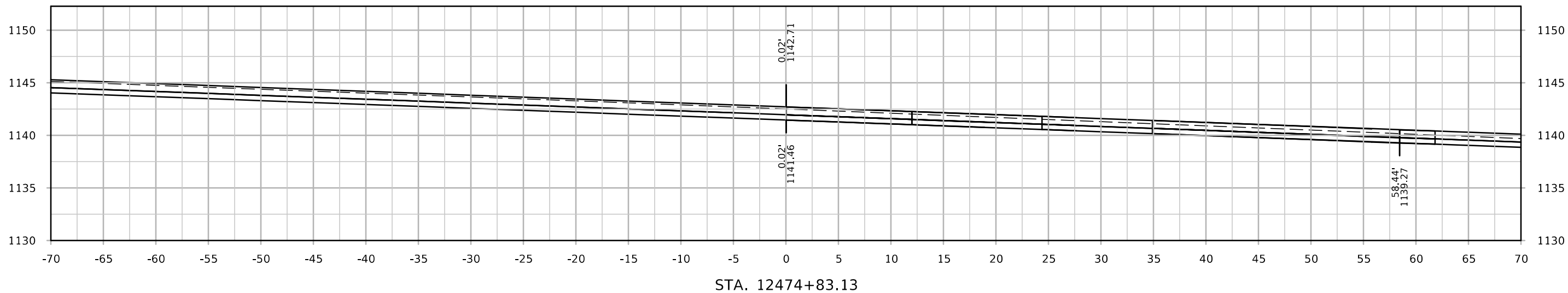




# 110th St

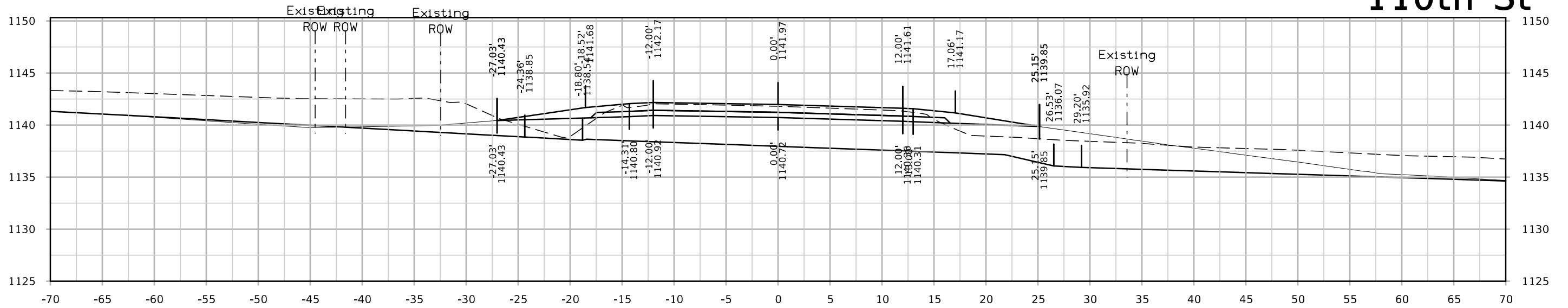


# 110th St

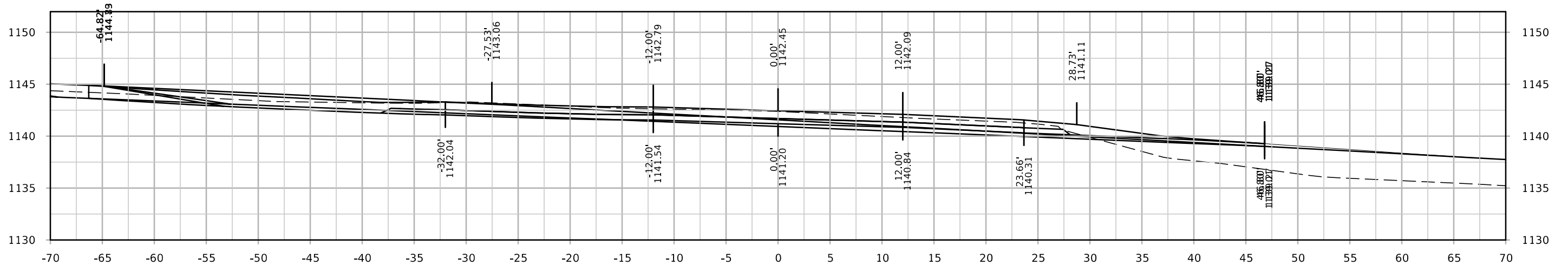


STA. 12474+83.13

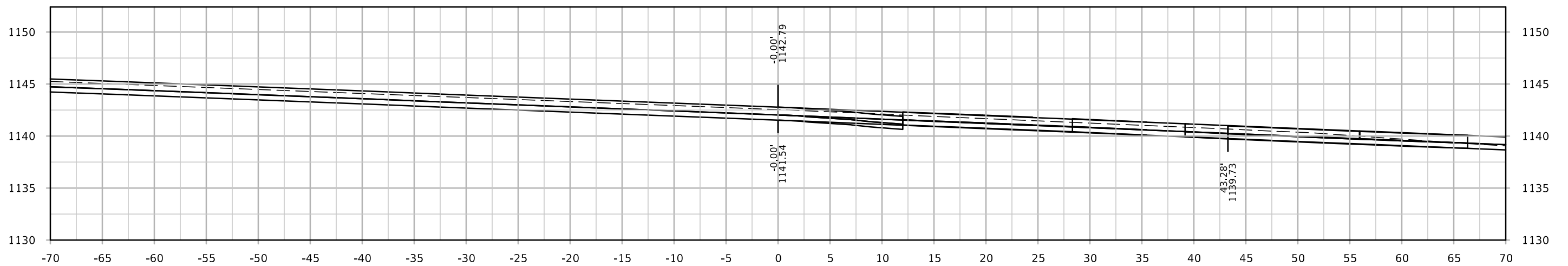
# 110th St



STA. 12475+50.00

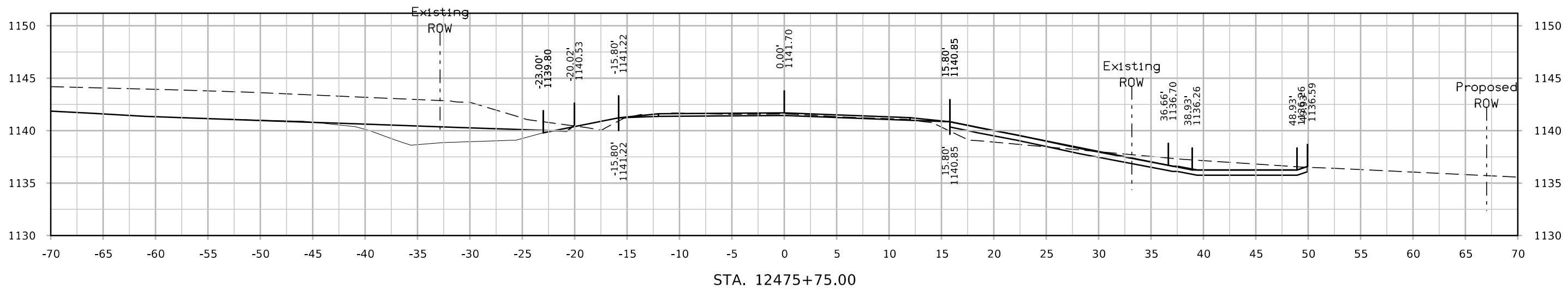
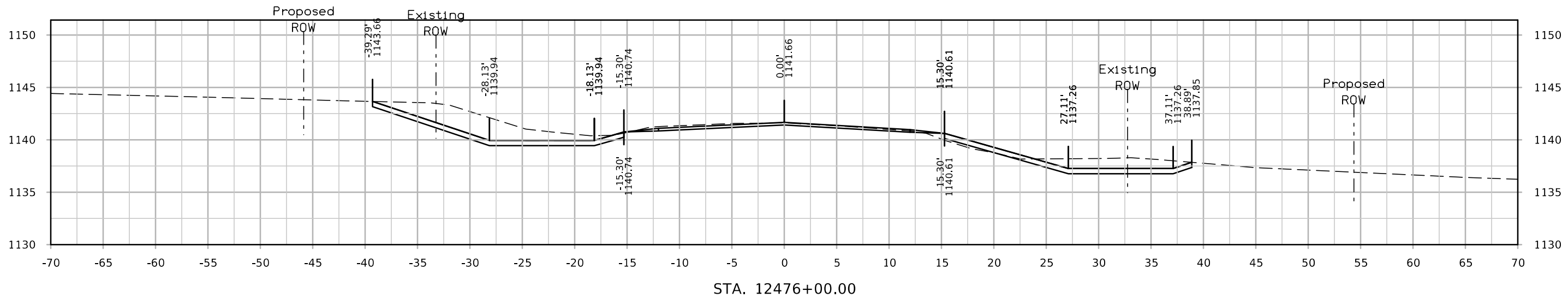
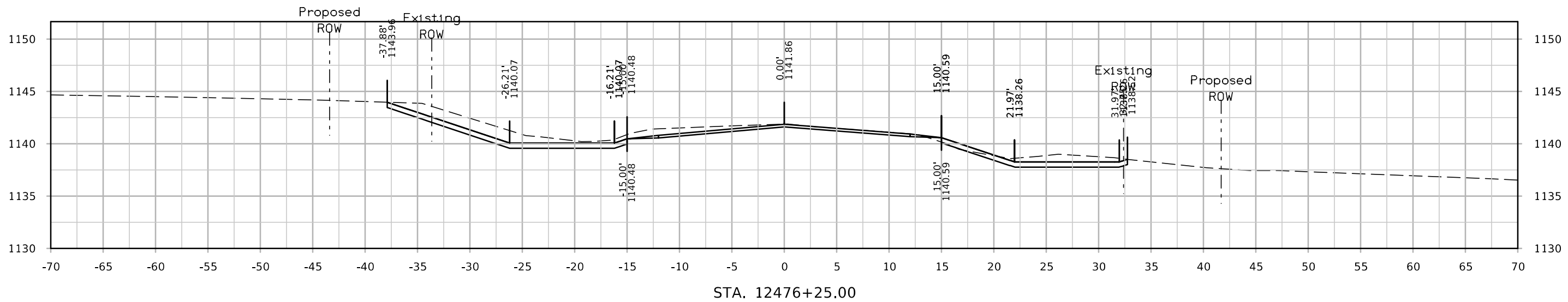


STA. 12475+25.00



STA. 12475+07.95

# 110th St



# 110th St

