STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

LAUDERDALE COUNTY

STATE ROUTE 87
BRIDGE OVER
BRANCH L.M. 19.11

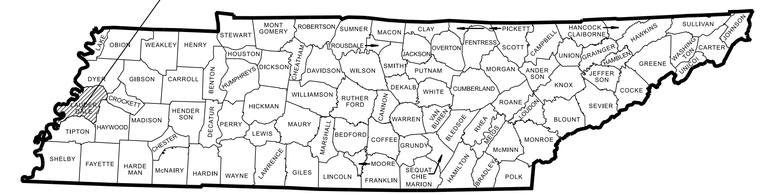
LINE AND GRADE
BRIDGE REPLACEMENT

STATE HIGHWAY NO. 87 F.A.H.S. NO.

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO

TENN.	YEAR	SHEET NO.
	2025	1
FED. AID PROJ. NO.		
STATE PROJ. NO.		

PROJECT LOCATION
BRIDGE ID. # 49SR0870033



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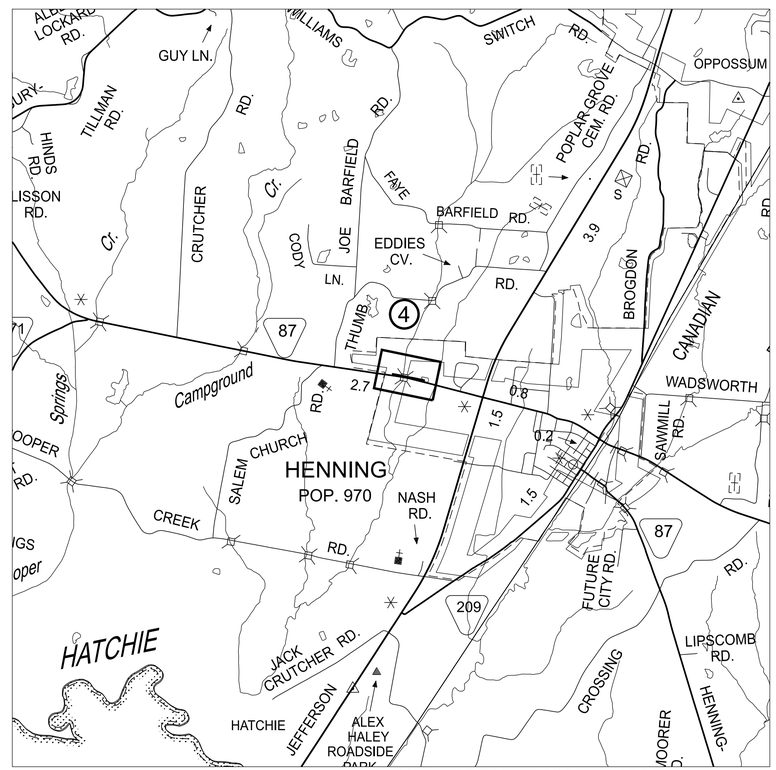

SCALE: 1"= 1/2 MILE

0 2640 5280 7920

NO EXCLUSIONS

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

APPROVED:
DEPUTY COMMISSIONER / CHIEF ENGINEER
DATE:
APPROVED:
DEPUTY GOVERNOR & COMMISSIONER

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT PROJECT MANAGER: STEVE SELLERS
DESIGN FIRM : AMERICAN STRUCTUREPOINT INC
DESIGNER : _____ CHECKED BY _____
P.E. NO. _____
PIN NO. 136185.12

R.O.W. LENGTH	MILES
ROADWAY LENGTH	MILES
BRIDGE LENGTH	MILES
BOX BRIDGE LENGTH	MILES
BOX BRIDGE LENGTH	MILES ▲
PROJECT LENGTH	MILES

▲ Not included in the project length (Non Riding Surface).

SURVEY - -	TRAFFIC DATA	
	ADT (2029)	2100
	ADT (2049)	
	DHV (2029)	231
	D	-
	T (ADT)	1.0%
	T (DHV)	%
	V	40 MPH

COORDINATES ARE NAD/83(1995) (____ ADJUSTMENT) ADJUSTED BY THE FACTOR OF _._____ AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING GEOID ___

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DIVISION ADMINISTRATOR DATE

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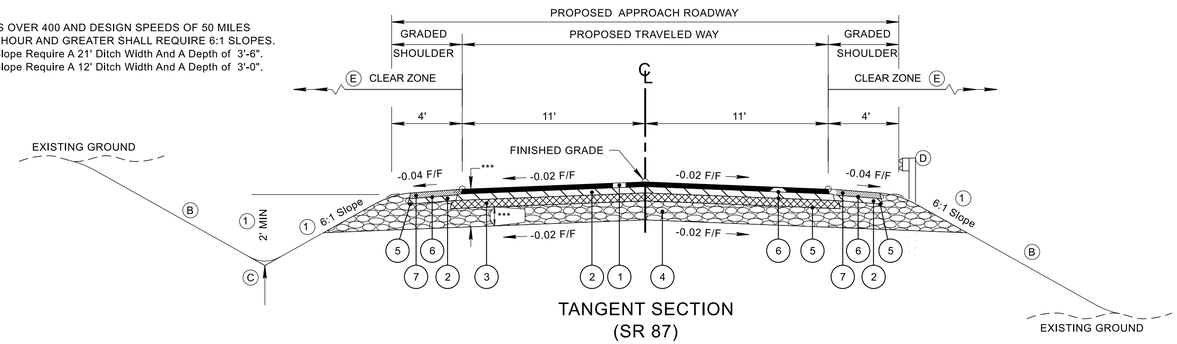
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		2B

(1) ADTS OVER 400 AND DESIGN SPEEDS OF 50 MILES PER HOUR AND GREATER SHALL REQUIRE 6:1 SLOPES.
6:1 Slope Require A 21' Ditch Width And A Depth of 3'-6".
4:1 Slope Require A 12' Ditch Width And A Depth of 3'-0".



TANGENT SECTION
(SR 87)

(BASED ON STD. DWG. RD11-TS-2)
FROM STA. 100+00.00 TO STA. 105+05.00
FROM STA. 105+65.00 TO STA. 110+36.00

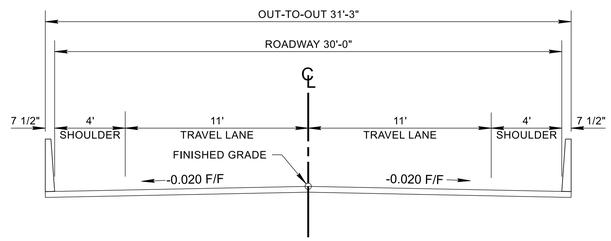
(A) THE SLOPE OF THE SHOULDER AND THE ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.

(B) SEE STANDARD DRAWINGS RD11-S-11 AND RD11-S-11B FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, SPECIAL ROCK TREATMENT AND SUB GRADE ROUNDING IF APPLICABLE.

(C) SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

(D) SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

(E) SEE STANDARD DRAWING S-CZ-1 FOR CLEAR ZONE CRITERIA. SEE THE "ROADSIDE DESIGN GUIDE", AASHTO, 2011, FOR FURTHER INFORMATION REGARDING CLEAR ZONES.



BRIDGE SECTION
(SR 87)

BRIDGE 50 FROM STA. 105+05.00 TO STA. 105+65.00

PROPOSED PAVEMENT SCHEDULE

(1) ASPHALTIC CONCRETE SURFACE (HOT MIX) PGXX-XX GRADING "D" SURFACE @ X.XX" THICK (APPROX. 132.5 LB./S.Y.) 411-XX.XX ACS MIX (PGXX-XX) GRADING "D"	(5) PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.30-0.35 GALLONS/S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) AT 8-12 LB./S.Y.
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) PGXX-XX GRADING "B-M2" @ 2.00" THICK (APPROX. 226 LB./S.Y.) 307-XX.XX ASPHALT CONCRETE MIX (PGXX-XX) (BPMB-HM) GRADING "B-M2"	(6) TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.07 GALLONS/S.Y. SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD
(3) BITUMINOUS PLANT MIX BASE (HOT MIX) PGXX-XX GRADING "A" @ X.XX" THICK (APPROX. 345 LB./S.Y.) 307-XX.XX XXXXASPHALT CONCRETE MIX (PGXX-XX) (BPMB-HM) GRADING "A"	(7) ASPHALTIC CONCRETE SURFACE (HOT MIX) PGXX-XX GRADING "E" SURFACE @ X.XX" THICK (APPROX. LB./S.Y.) 411-XX.XX ACS MIX (PGXX-XX) GRADING "E" SHOULDER
(4) MINERAL AGGREGATE XX" THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	

SEALED BY

COORDINATES ARE NAD 83( ), ARE DATUM ADJUSTED BY THE FACTOR OF AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
TYPICAL

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		3A

R.O.W. ACQUISITION TABLE

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (SQUARE FEET)				
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAINAGE	SLOPE	CONST	AIR RIGHTS	PERM RAILROAD
				BOOK	PAGE													
1	H. FRANK KELLER, II AND PATRICIA R. KELLER	117	018.00	RB 399	448		75.500	75.500					75.500					
2	WILLIAM C. WINTERS AND DONNA J. WINTERS	117	019.00	RB 817	727	36.390		36.390				36.390						
3	WILLIAM C. WINTERS AND DONNA J. WINTERS	117	019.00	RB 817	727		84.350	84.350		0.793	0.793		83.557					
4	UNITED STATES OF AMERICA	117	020.02	RB 645	187	89.460		89.460				89.460						
ACQUISITION TOTALS (ACRES)										0.793								

DISTURBED AREA

IN BETWEEN SLOPE LINES	1.363	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.497	(AC)
TOTAL DISTURBED AREA	1.860	(AC)
TOTAL PROJECT AREA	2.061	(AC)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
ACQUISITION
TABLE

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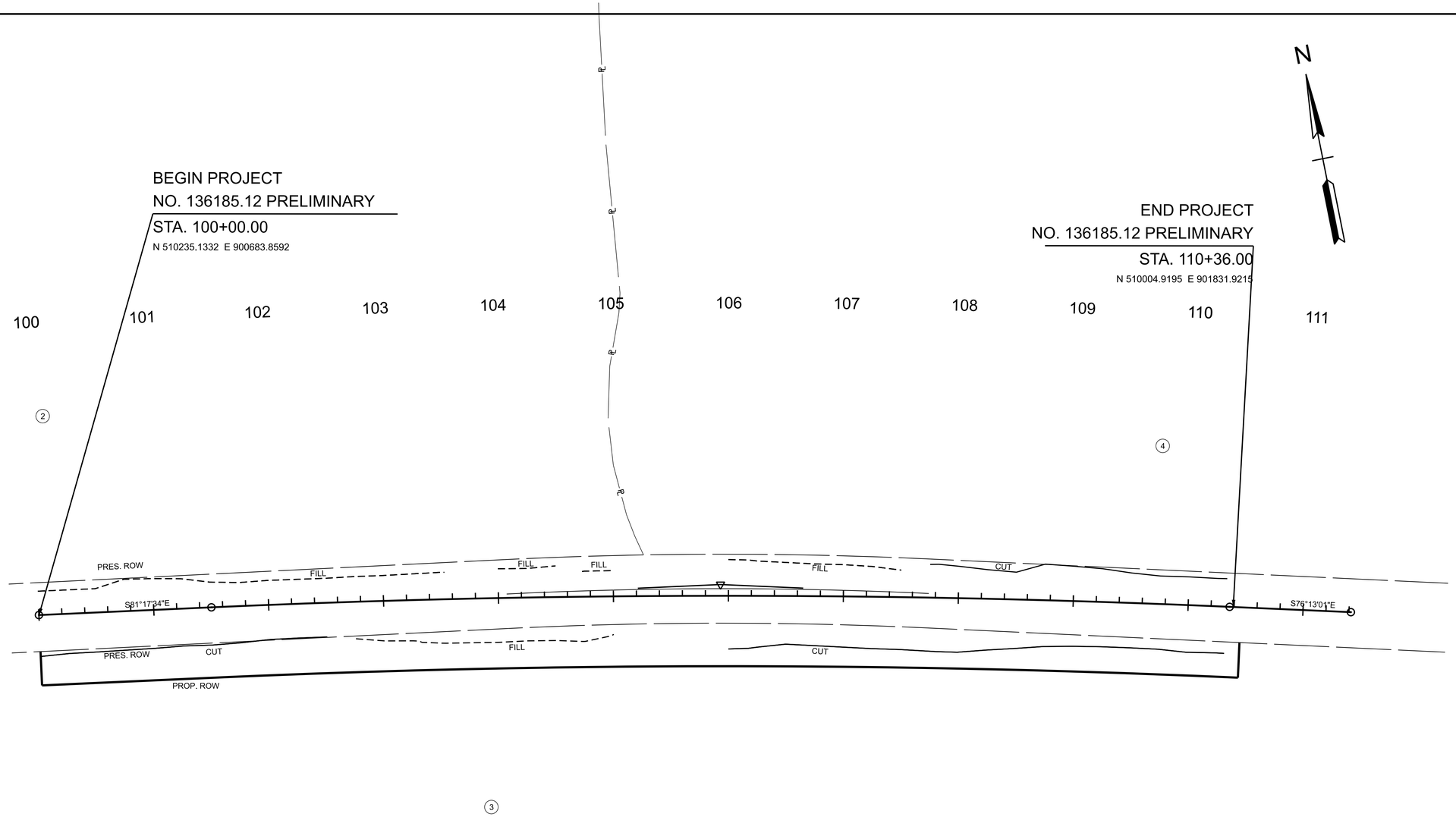
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		3B



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COORDINATES ARE NAD 83( ), ARE
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ALL ELEVATIONS ARE REFERENCED
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY
MAP

STA. 100+00.00 TO STA. 111+71.16
SCALE: 1" = 50'

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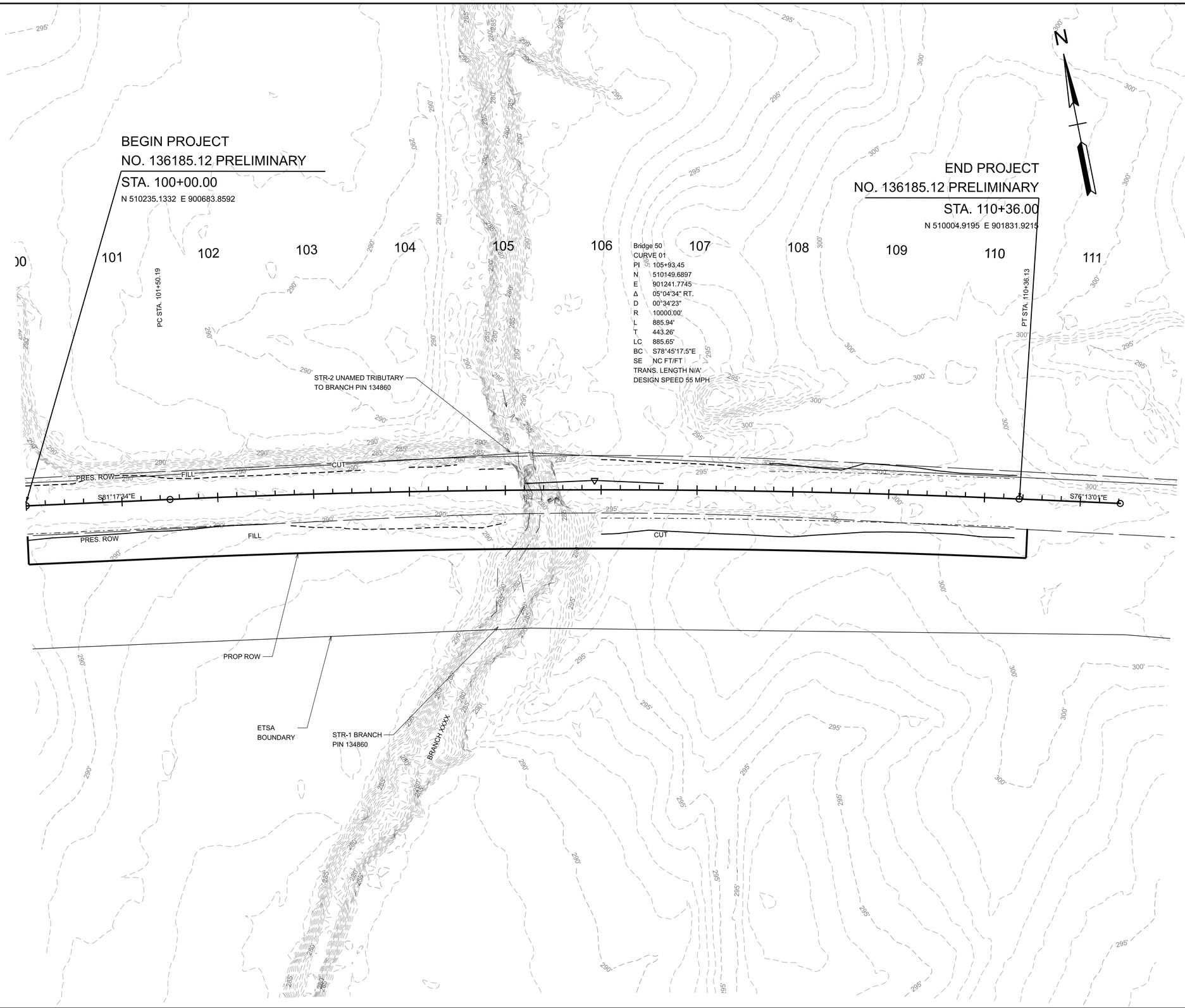
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		4



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COORDINATES ARE NAD 83( ), ARE
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ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

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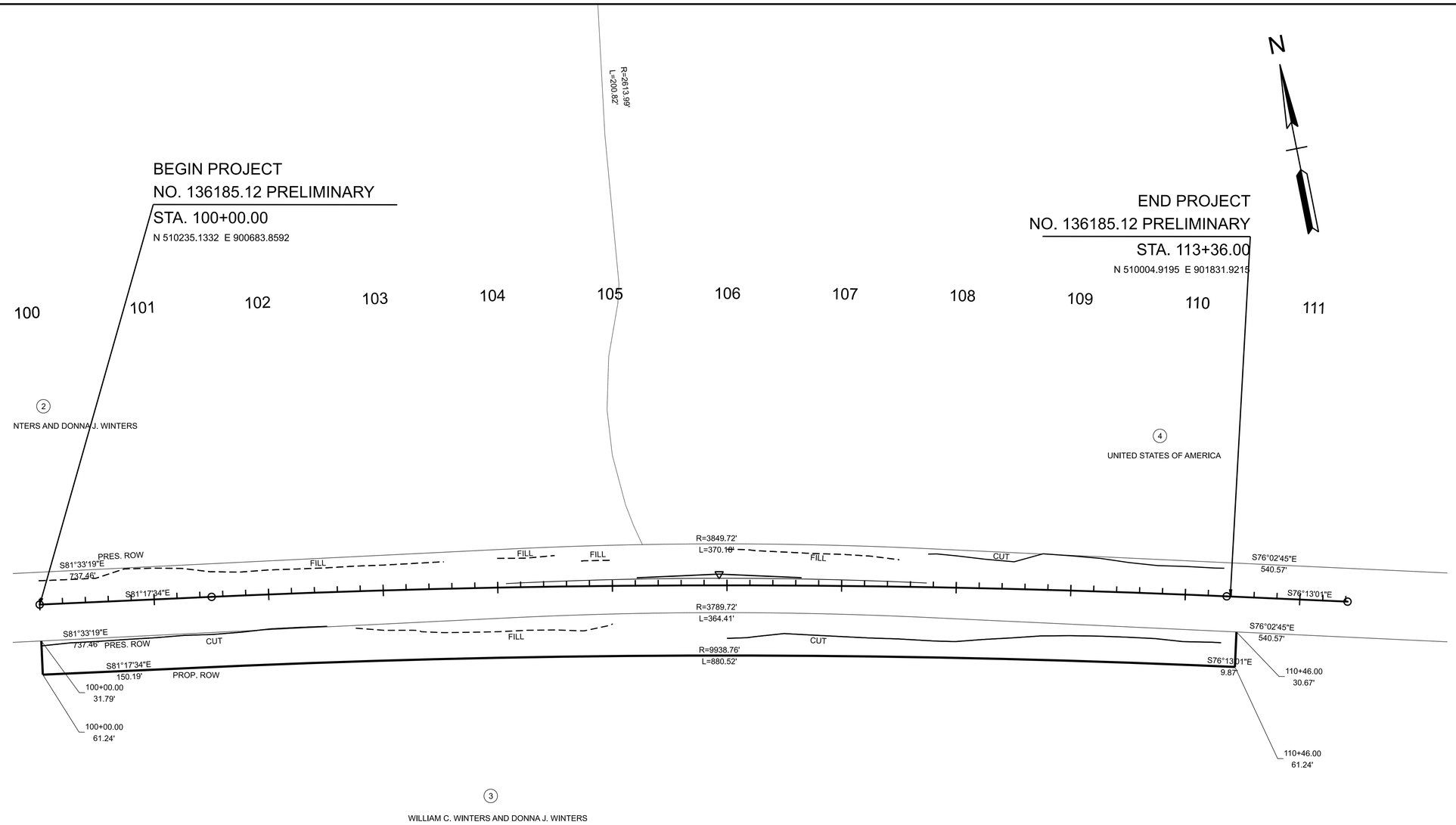
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		4A



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COORDINATES ARE NAD 83( ), ARE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROW
DETAILS

STA. 100+00.00 TO STA. 112+00.00
SCALE: 1" = 50'

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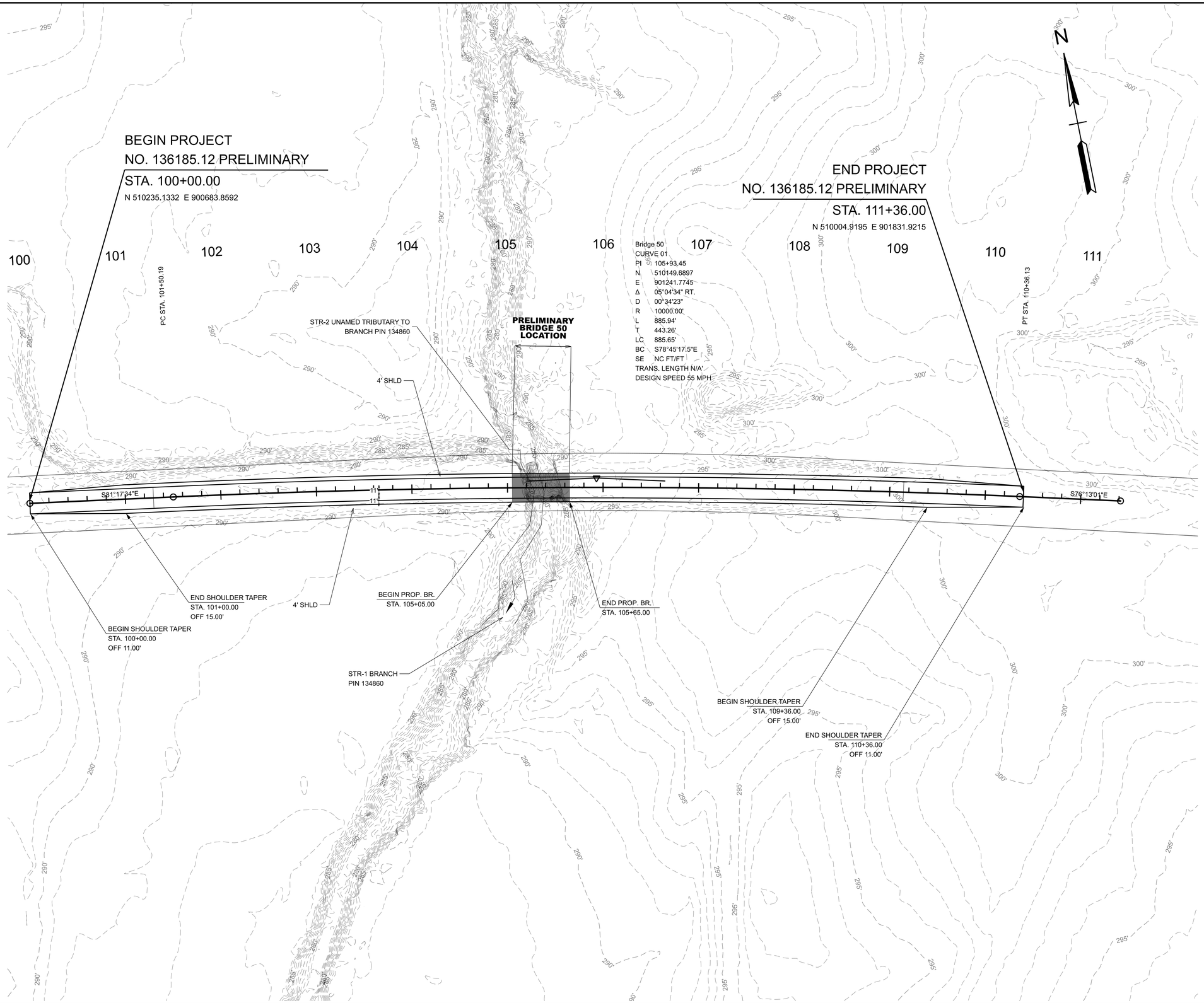

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COORDINATES ARE NAD 83( ), ARE
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TO THE NAVD 1988 WITH GEOID .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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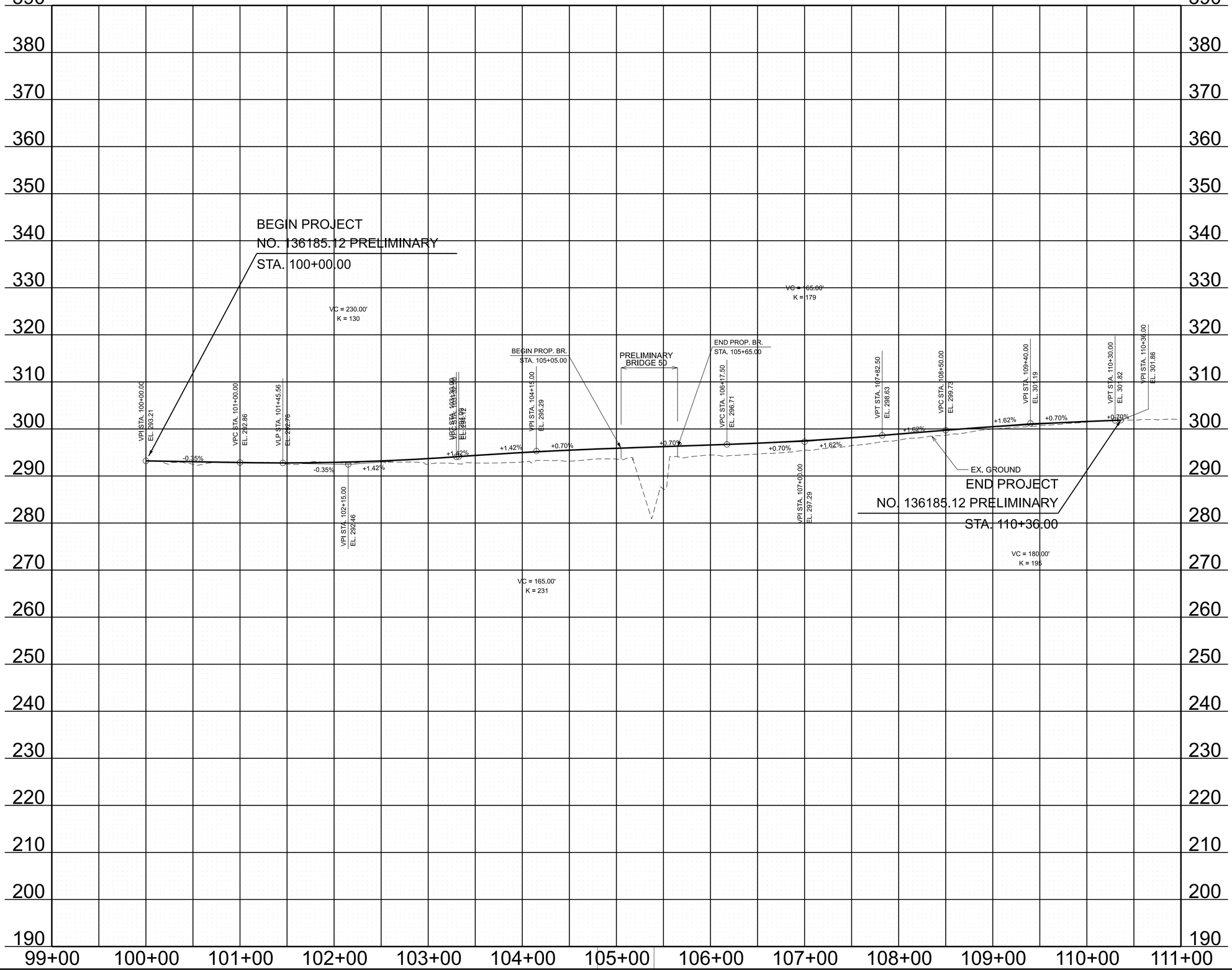

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		4C

REV. ***DATE***
TEXT

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
PROFILE

STA. 99+00.00 TO STA. 111+00.00

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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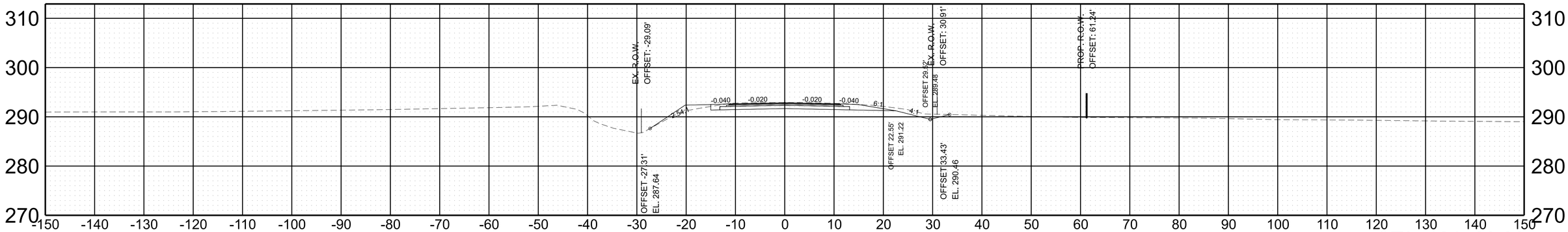
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		5



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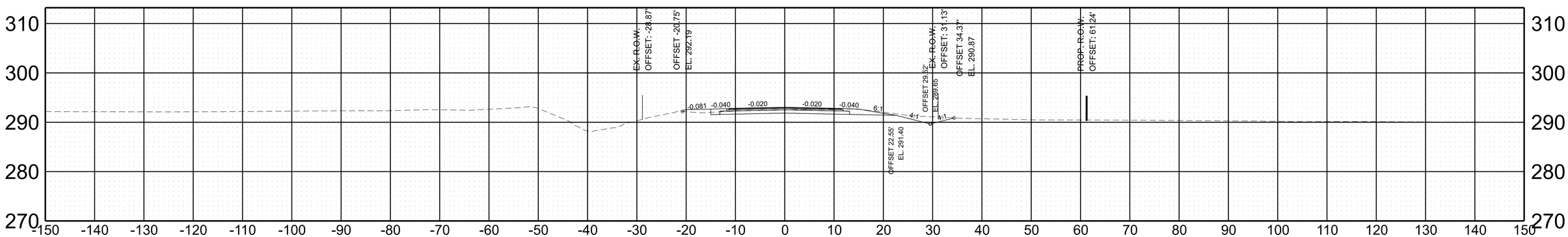
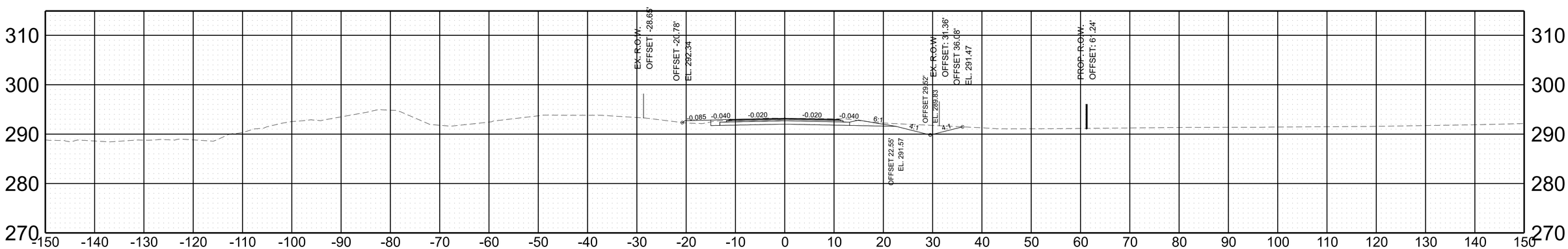


STA. 100+50.00



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TYPE	YEAR	PROJECT NO.	SHEET NO.
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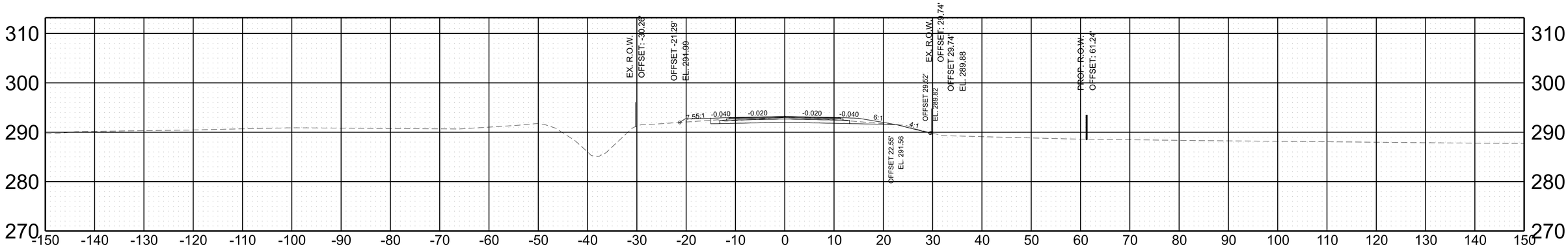

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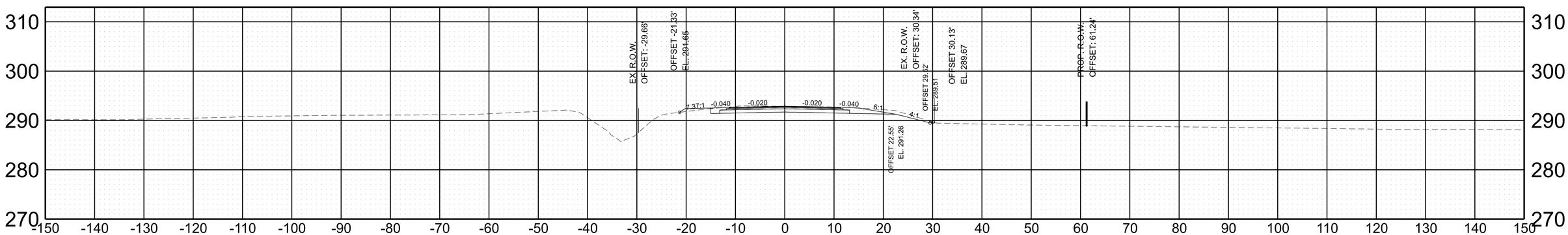

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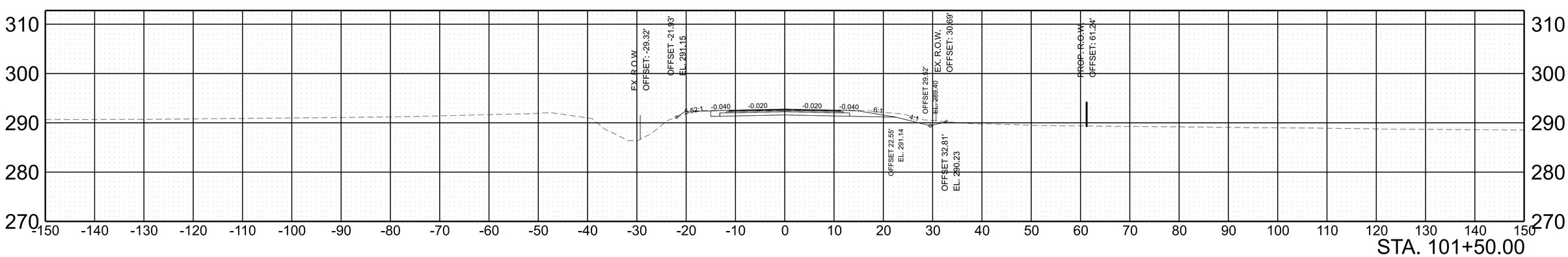

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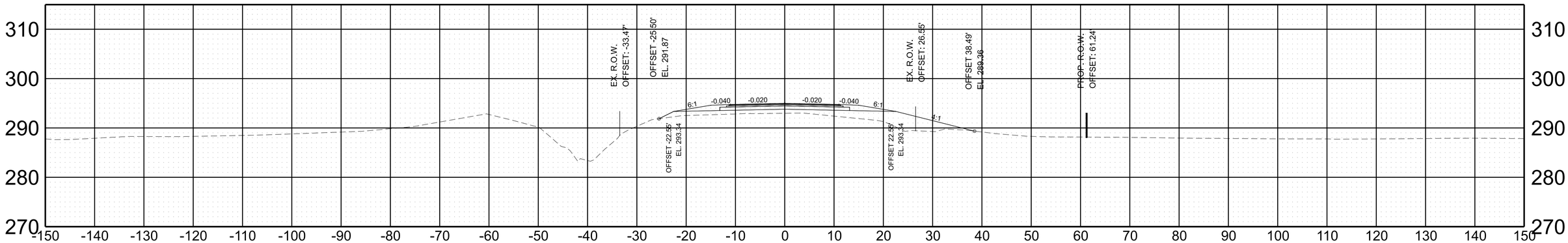
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		7



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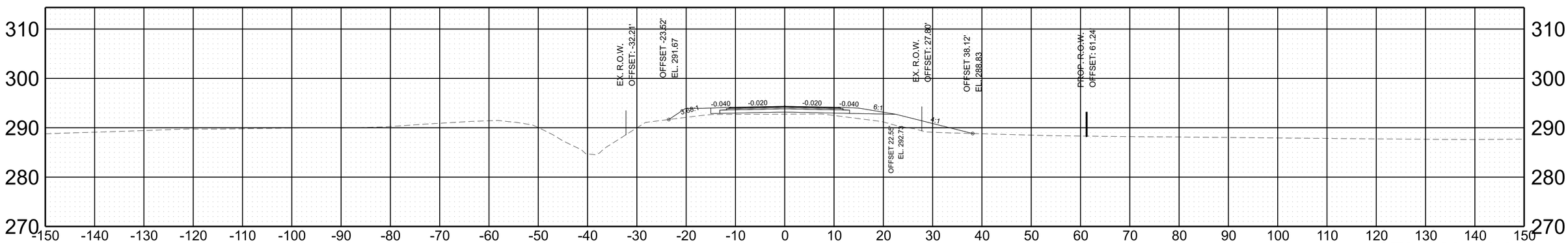

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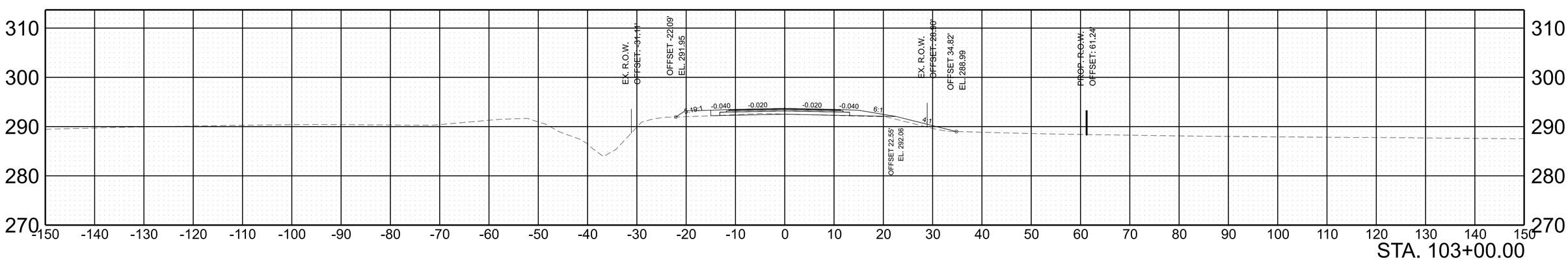

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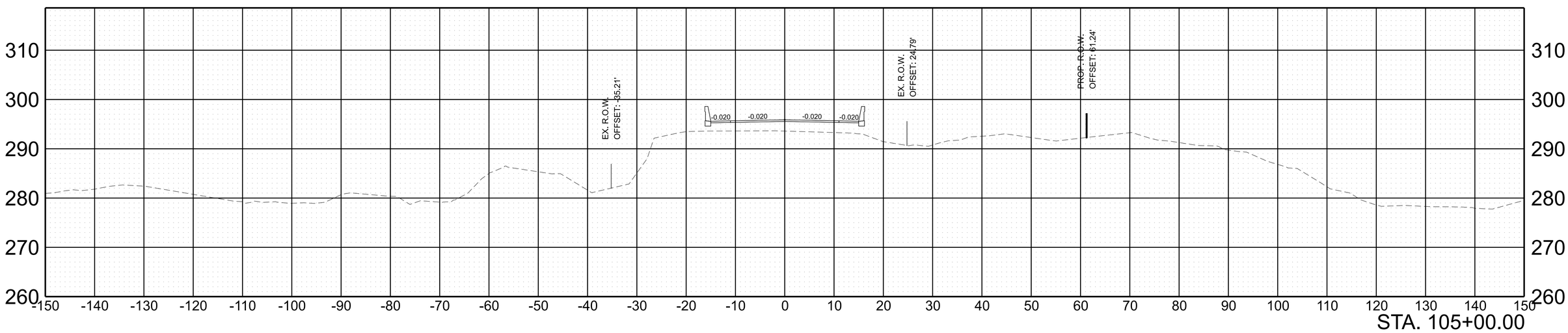
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		8



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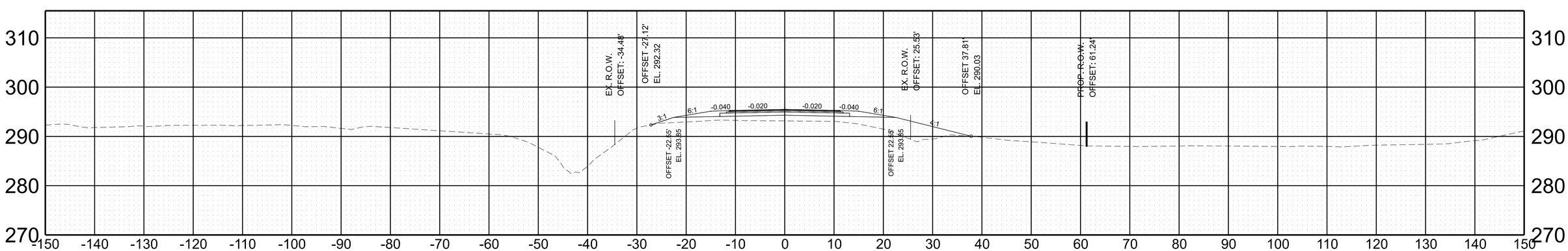

STA. 104+50.00

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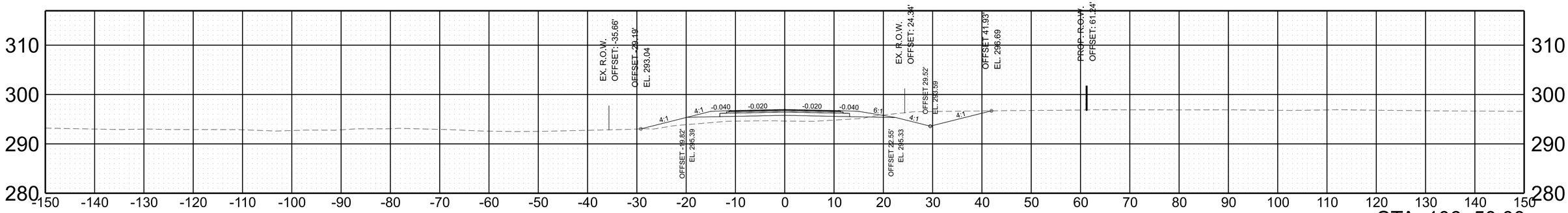
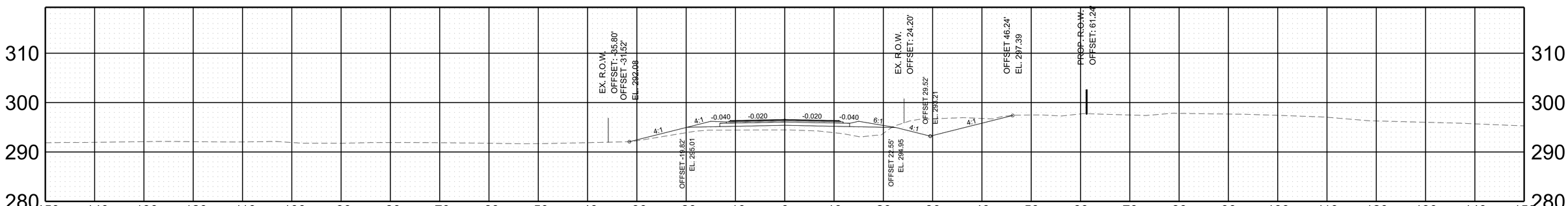
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		9



STA. 106+50.00



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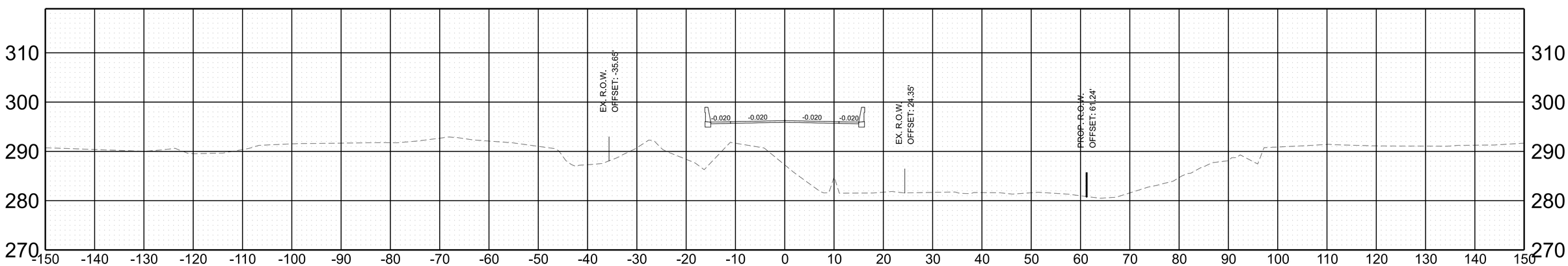

STA. 105+50.00

SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 105+50.00 END STA. 106+50.00

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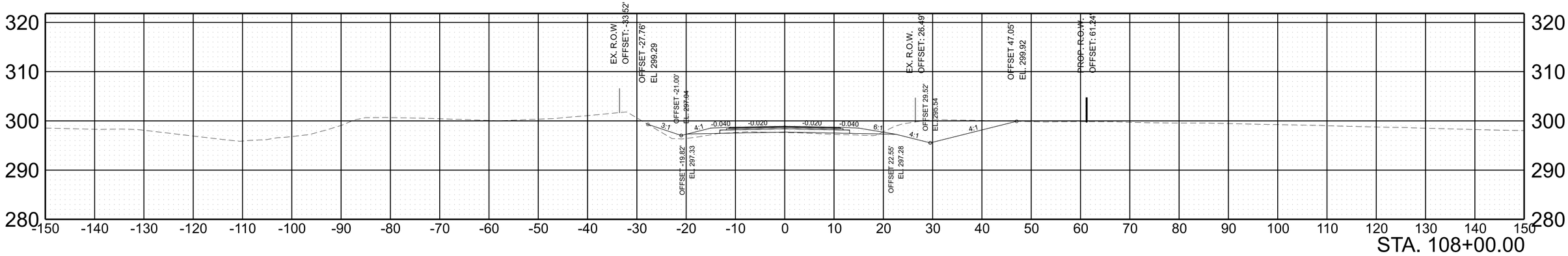
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		10



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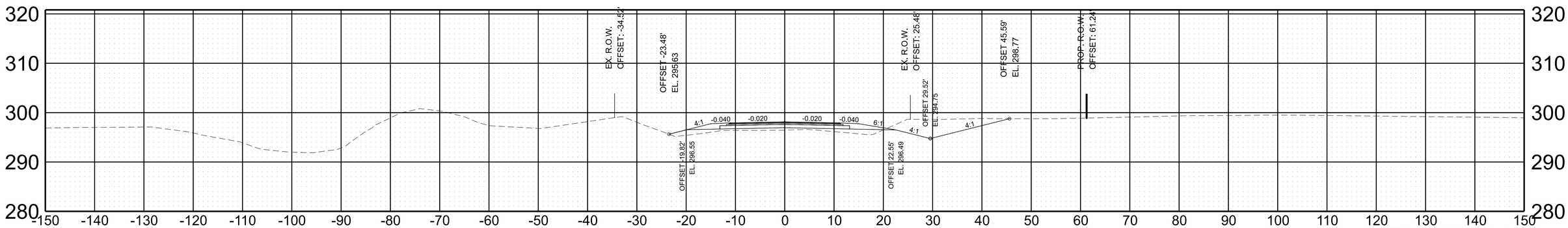

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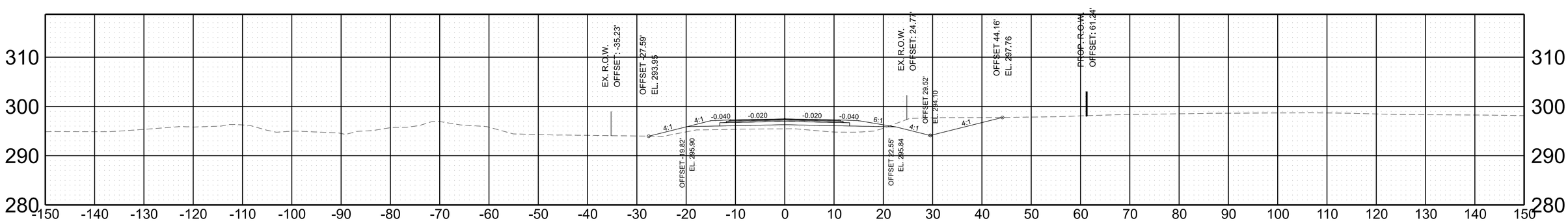

STA. 107+00.00

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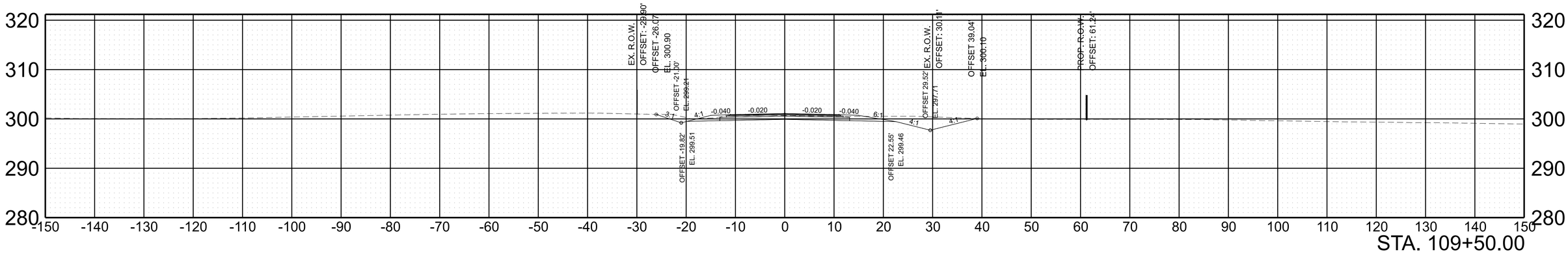
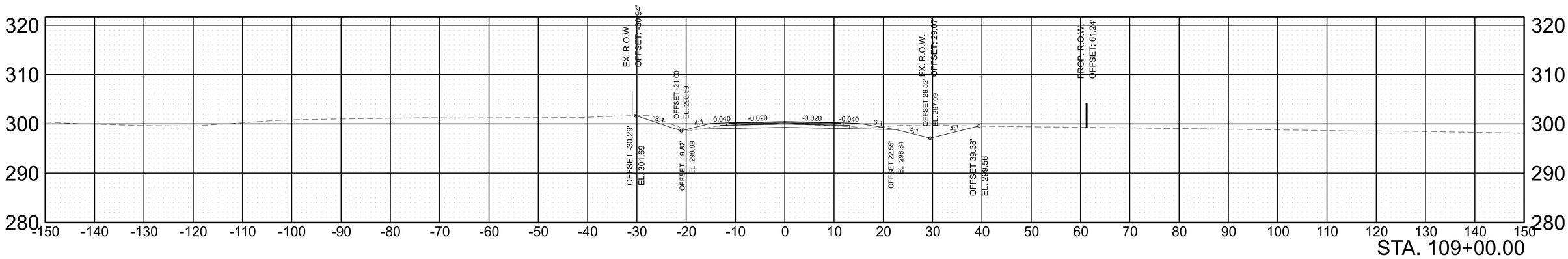
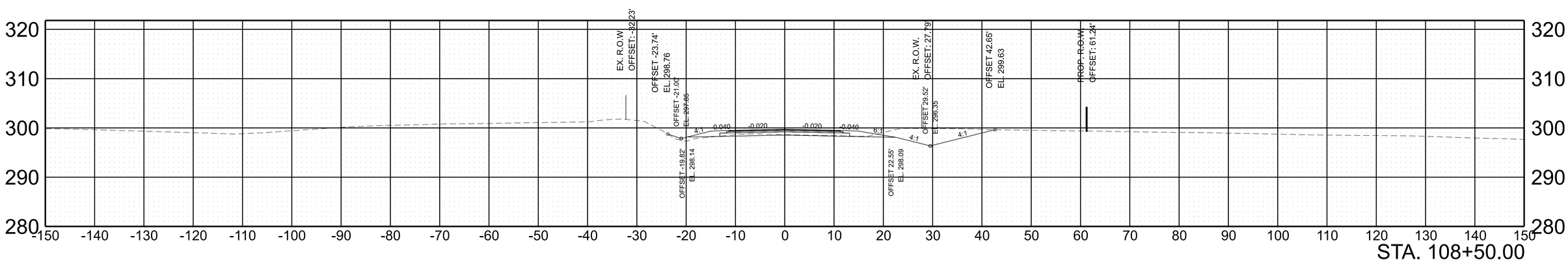
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		11







SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 108+50.00 END STA. 109+50.00

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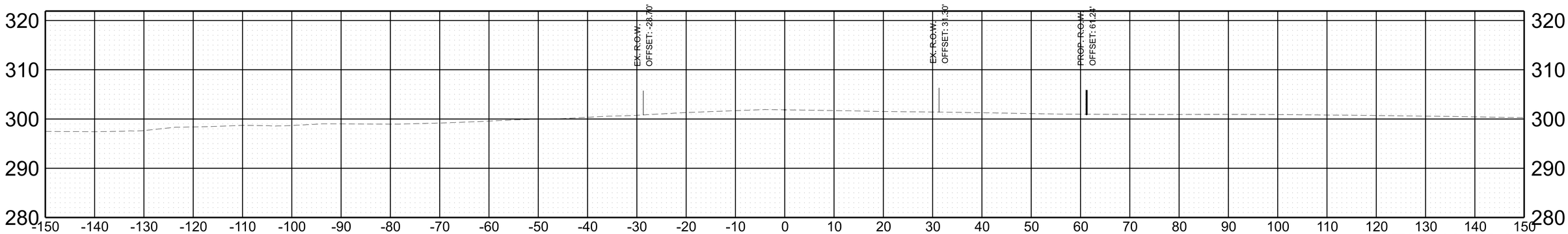
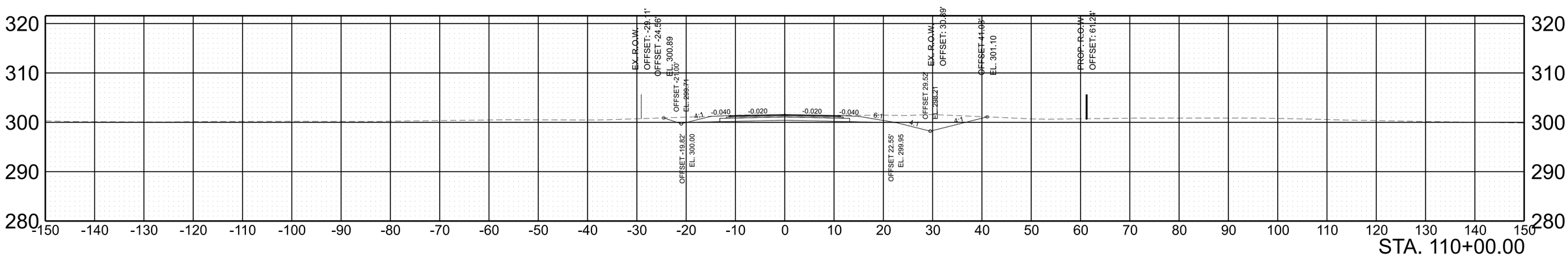
C:\TMP\PWISE\DNAILLON@STRUCTUREPOINT.COM\D0160772\49S087-SHT-XSEC-BRANCH BRIDGE LM 19.11.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		12



STA. 110+36.00



STA. 110+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 110+00.00
	1"=10' VERT.	END STA. 110+36.00

8/18/2025 3:00:58 PM
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