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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAYWOOD COUNTY

STATE ROUTE 87
BRIDGE OVER
BRANCH CREEK L.M. 2.30

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
2025

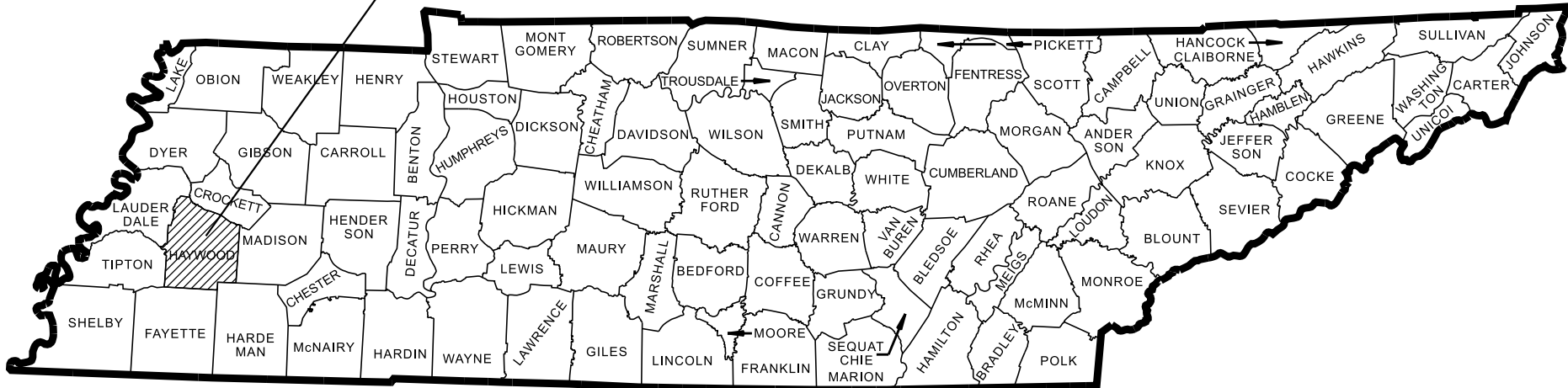
SHEET NO.
1

FED. AID PROJ. NO.

STATE PROJ. NO.

PROJECT LOCATION

BRIDGE ID. # 38SR0870001



NO EXCLUSIONS

CAUTION!
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

APPROVED:

WILL REID, CHIEF ENGINEER

DATE:

APPROVED:

WILL REID, 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

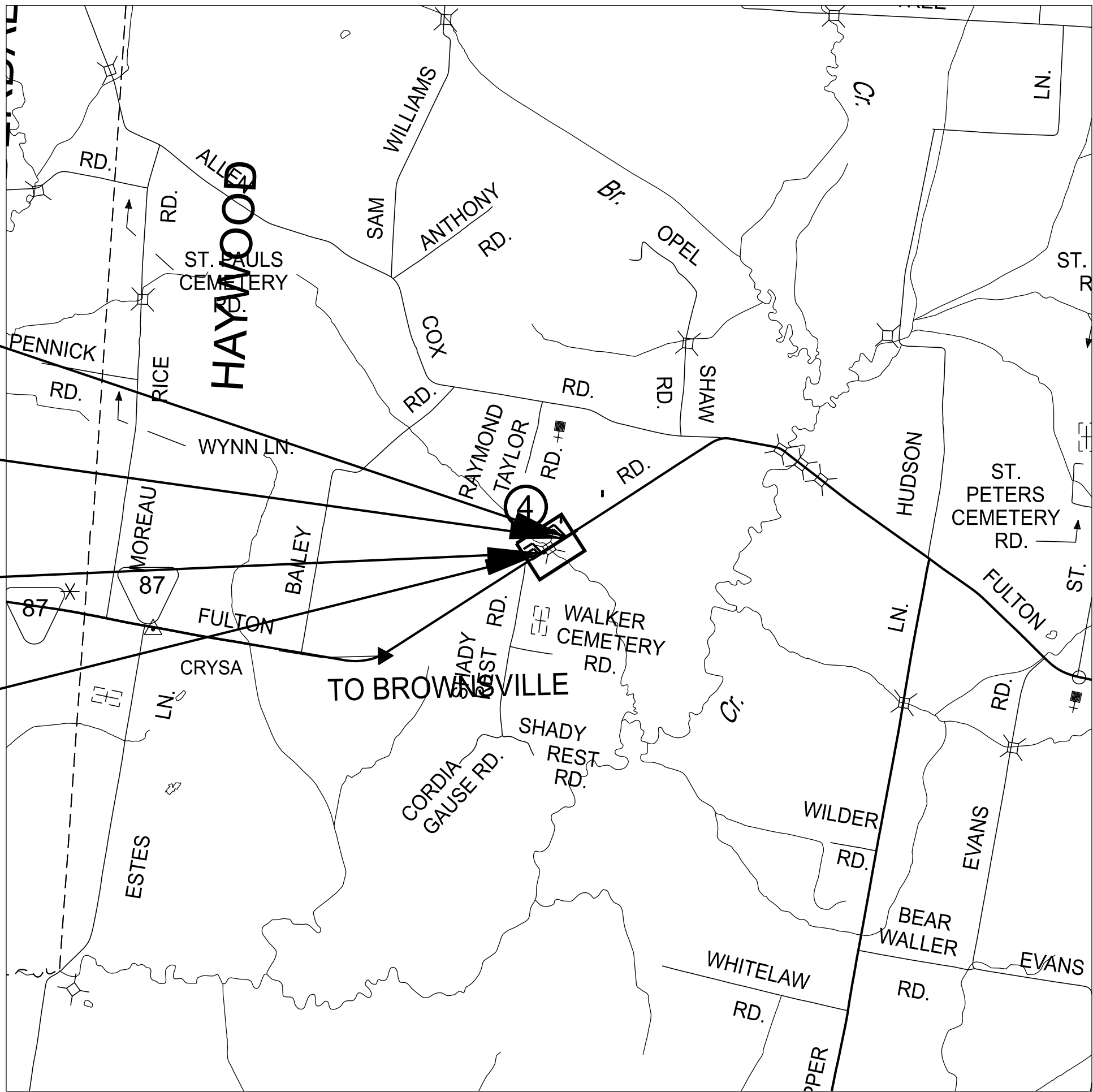
DESIGN FIRM : GRESHAM SMITH

DESIGNER : J. ALEX STANLEY, P.E.

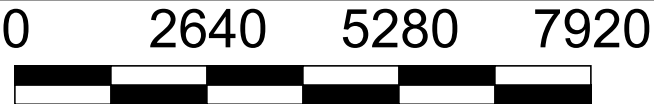
CHECKED BY BEN COLES, P.E.

P.E. NO.

PIN NO. 136185.01



SCALE: 1"= 1/2 MILE



R.O.W. LENGTH 0.148 MILES
ROADWAY LENGTH 0.121 MILES
BRIDGE LENGTH 0.009 MILES
PROJECT LENGTH 0.148 MILES ▲

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

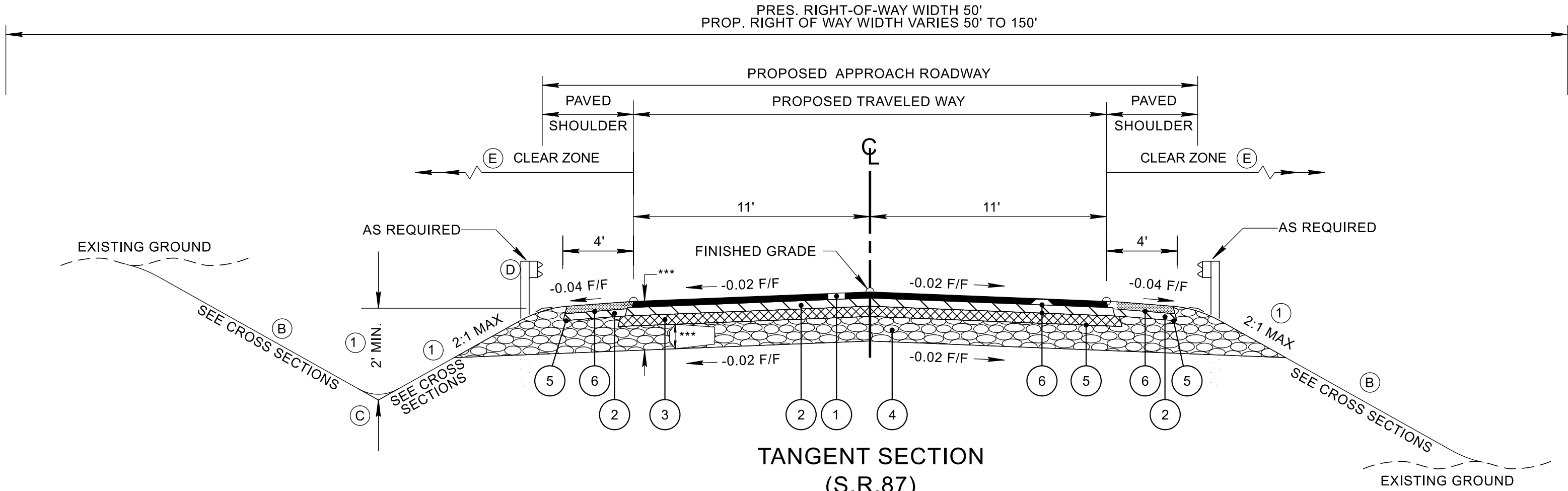
SURVEY	N/A	TRAFFIC DATA
TN STATE LIDAR UTILIZED	ADT (2029)	450
	ADT (2049)	
	DHV (2029)	54
	D	-
	T (ADT)	3.0%
	T (DHV)	%
	V	55 MPH

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 _

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

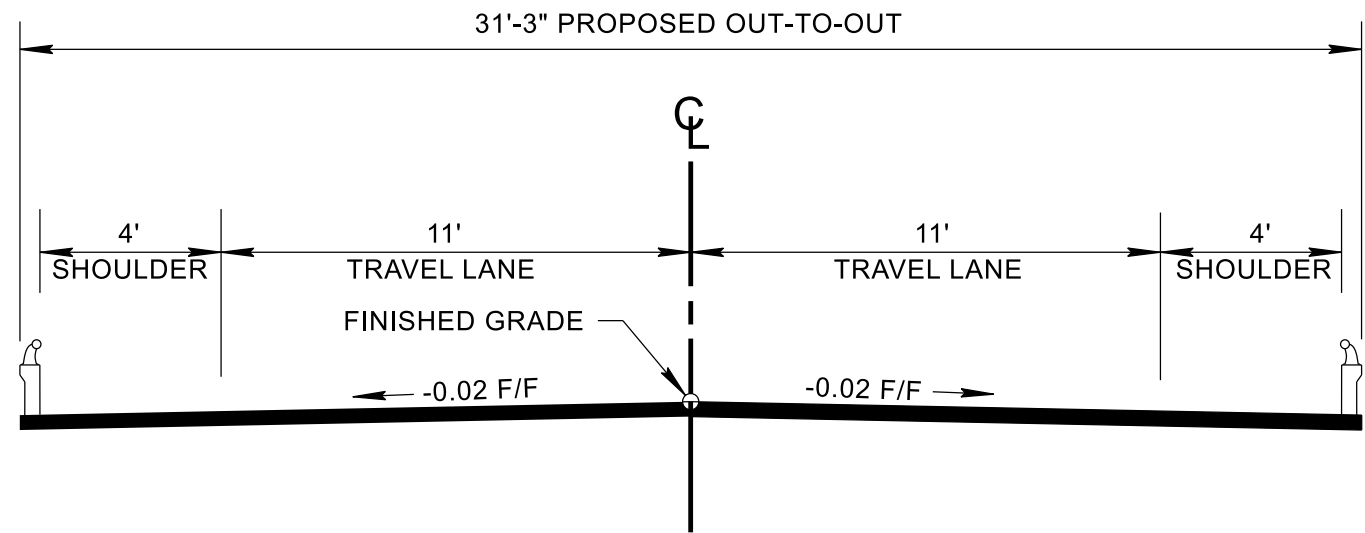
① ADTS OVER 400 AND DESIGN SPEEDS OF 50 MILES PER HOUR AND GREATER SHALL REQUIRE 6:1 SLOPES. 6:1 Slope Require A 21' Ditch Width And A Depth of 3'-6". 4:1 Slope Require A 12' Ditch Width And A Depth of 3'-0".

- (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.



TANGENT SECTION
(S.R. 87)

(BASED ON STD. DWG. RD11-TS-2)
FROM STA. 102+91.14 TO STA. 105+62.62
FROM STA. 106+60.62 TO STA. 109+31.85



BRIDGE SECTION
(S.R. 87)

APPROACH SLAB: FROM STA. 105+62.62 TO STA. 105+86.62
BRIDGE: FROM STA. 105+86.62 TO STA. 106+36.62
APPROACH SLAB: FROM STA. 106+36.62 TO STA. 106+60.62

PROPOSED PAVEMENT SCHEDULE

① ASPHALTIC CONCRETE SURFACE (HOT MIX) PGXX-XX GRADING "D" SURFACE @ 1.25" 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 (PG64-22) (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" @ 3.00" THICK (APPROX. 345 LB./S.Y.) 307-XX.XX ASPHALT CONCRETE MIX (PGXX-XX) (BPMB-HM) GRADING "A"	
④ MINERAL AGGREGATE 8" THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

RIGHT-OF-WAY

- (1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, __ (A) __ TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.
- (2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.
- (3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (7) TRACT REMAINDERS NOT HAVING AN EXISTING DRIVEWAY WILL BE PROVIDED ONE 50-FOOT OPENING IN THE ACCESS CONTROL FENCE AND A DRIVEWAY WILL BE CONSTRUCTED UNLESS ACCESS IS PROVIDED FROM AN INTERSECTING ROAD OR BASED ON PHYSICAL CONDITIONS AND/OR CONFLICTS WITH OTHER DESIGN CONSIDERATIONS WHICH PREVENT AN ACCESS OPENING. PAVING OF THESE NEW DRIVEWAYS WILL BE IN ACCORDANCE TO THE 7 PERCENT CRITERIA PREVIOUSLY MENTIONED FOR EXISTING DRIVEWAYS.
- (8) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.
- (9) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.
- (10) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.
- (11) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.
- (12) EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

UTILITY

- (1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.
- (6) NO WORK SHALL OCCUR IN THE AREA MARKED ON THE PLANS AS STREAM/WETLAND MITIGATION RIGHT-OF-WAY OR MITIGATION AREA. NO UTILITY RELOCATION OR OTHER LAND DISTURBANCE IS AUTHORIZED. ONLY ACTIVITIES PERTAINING TO THE CONSTRUCTION OR MANAGEMENT OF THE STREAM/WETLAND MITIGATION SITE MAY OCCUR, WHICH WILL BE INDICATED ON THE STREAM MITIGATION PLANS (ADD PLAN SHEET NUMBERS HERE). ANY VIOLATIONS OF THE ABOVE MENTIONED WILL RESULT IN NON-COMPLIANCE WITH THE ENVIRONMENTAL PERMIT REQUIREMENTS.

UTILITY OWNERS

ELECTRIC:
SOUTHWEST TENNESSEE ELECTRIC
MEMBERSHIP CORPORATION
Address
City, State Zip
CONTACT: Name
OFFICE PHONE: ____ ____ ____
CELL PHONE: ____ ____ ____
Email: Address

CABLE:
AT&T
Address
City, State Zip
CONTACT: Name
OFFICE PHONE: ____ ____ ____
CELL PHONE: ____ ____ ____
Email: Address

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

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY NOTES, UTILITY NOTES AND UTILITY OWNERS

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

R.O.W. ACQUISITION TABLE PIN 136185.01

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	PATRICK TANNER MANN, JOHN PENNINGTON MANN, ELIZABETH KIRKPATRICK MANN,	060	047.00	RB 126	300		14.890	14.890		0.540	0.540		14.350			517 S.F.		
2	ODIS DEAN POWELL AND WIFE LEONIA POWELL	060	046.00	RB 53	4		0.910	0.910					0.910					
3	ROBERT PRESTON ESTES AND WIFE, SANDRA A. ESTES	060	047.03	RB 106	711	3.850		3.850	0.579		0.579	3.271						
4	ALMA PINNIX LEE	060	045.00	RB 174	259	2.920		2.920	0.263		0.263	2.657						
5	ALMA PINNIX LEE	060	045.00	RB 174	259		27.180	27.180		0.126	0.126		27.054					
6	ROBERT BAILEY JR.	060	029.01	DB 220	279	3.620		3.620				3.620						
7	RENWICK TURNER, AND WIFE DIANA TURNER	060	030.00	RB 195	893		6.000	6.000					6.000					
ACQUISITION TOTALS (ACRES)									1.508							517 S.F.		

DISTURBED AREA

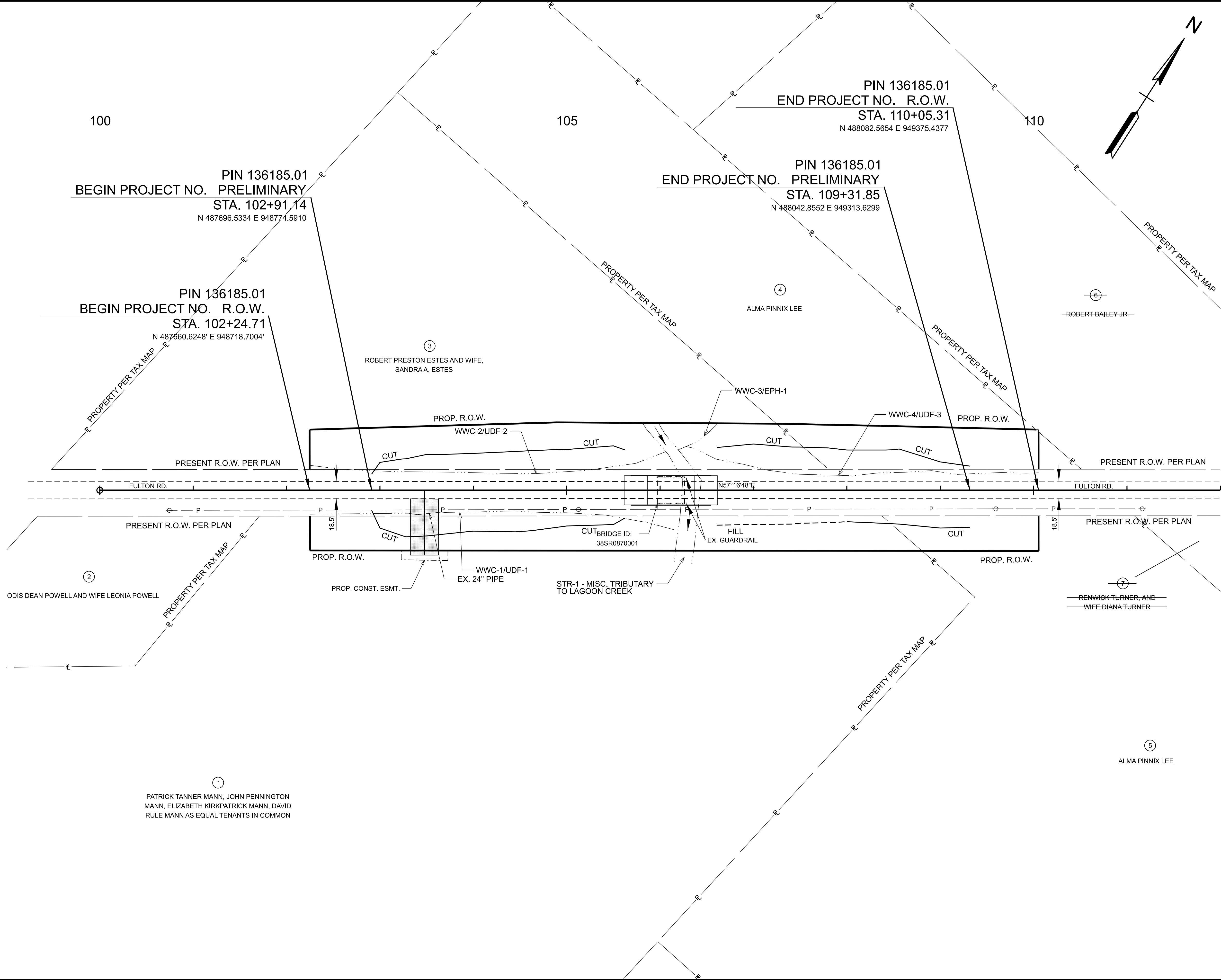
IN BETWEEN SLOPE LINES		1.272	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)		1.098	(AC)
TOTAL DISTURBED AREA		2.370	(AC)
TOTAL PROJECT AREA		2.957	(AC)

SEALED BY

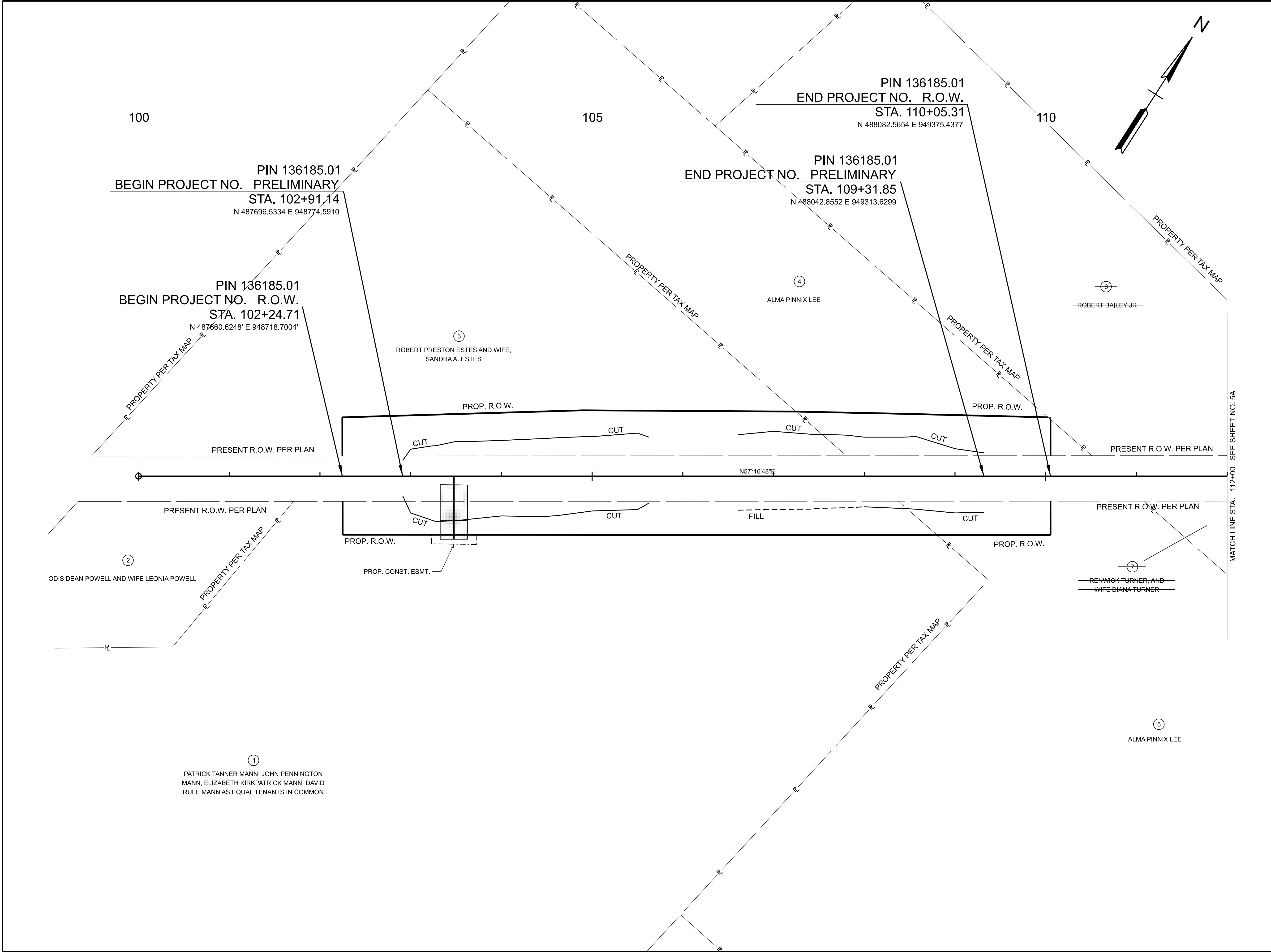
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
ACQUISITION
TABLE

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



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



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

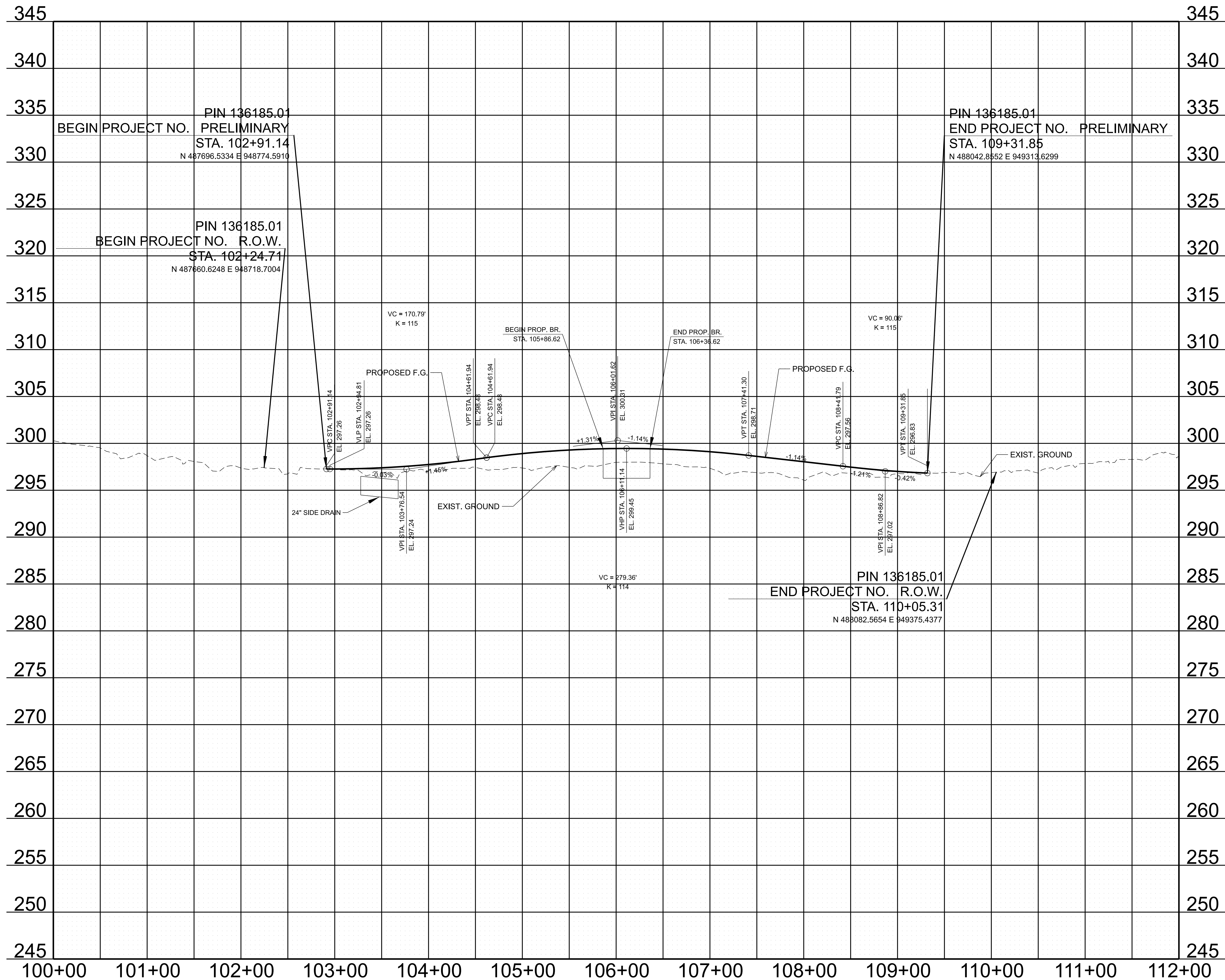
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COORDINATES ARE NAD 83(), ARE DATUM ADJUSTED BY THE FACTOR OF AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID .

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**RIGHT OF WAY
DETAILS**

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



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

SEALED BY

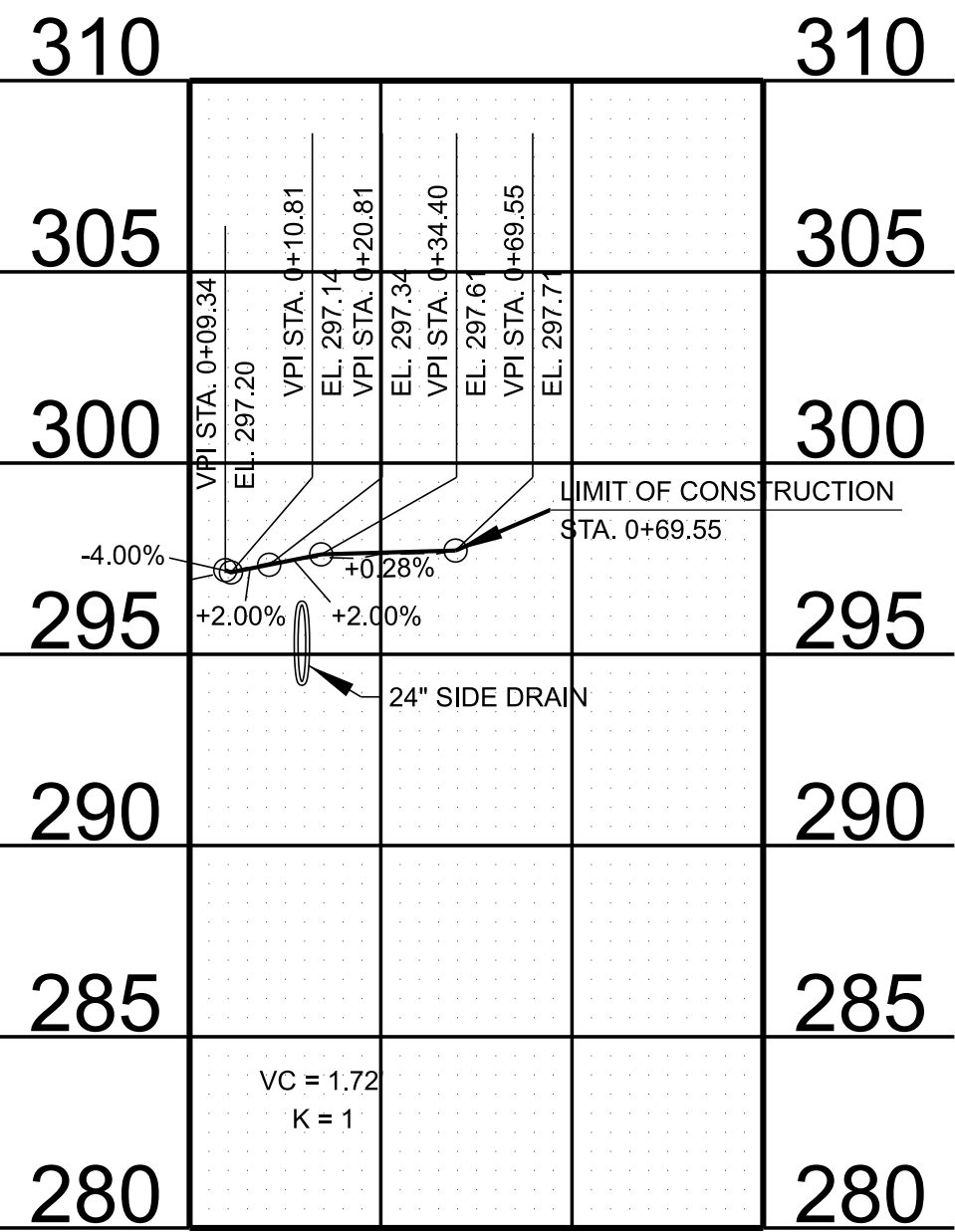
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
PROFILE**

STA. 100+00.00 TO STA. 112+00.00

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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



0+00 1+00
30' FIELD ENTRANCE
STA. 103+47.65 RT
TRACT NO. 1

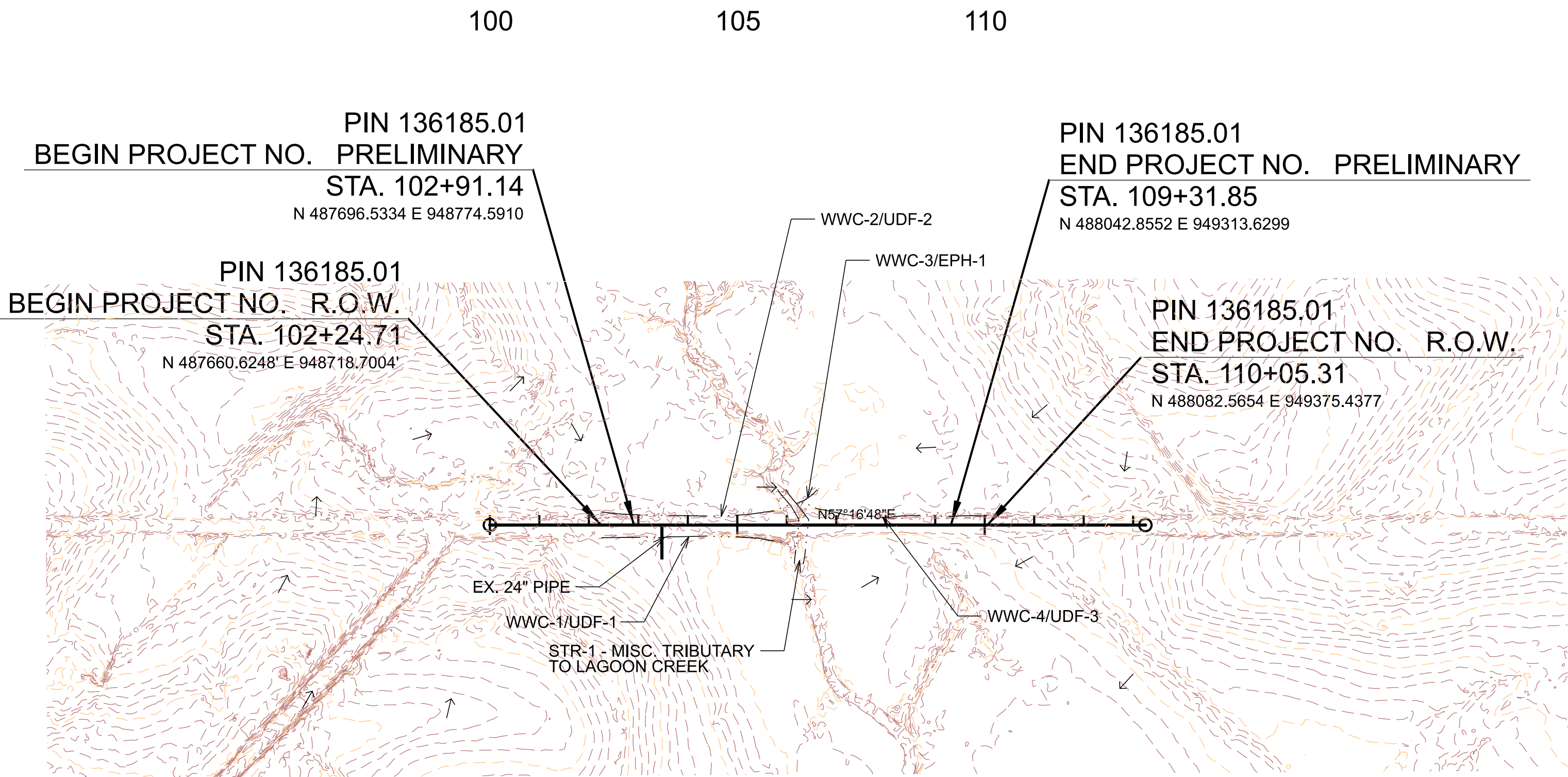
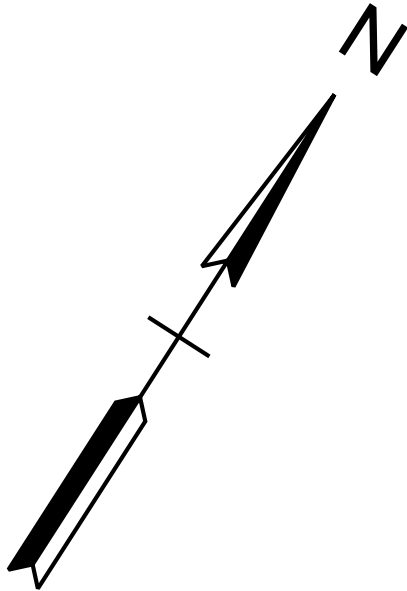
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE,
BUSINESS, AND FIELD
ENTRANCE PROFILE(S)

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

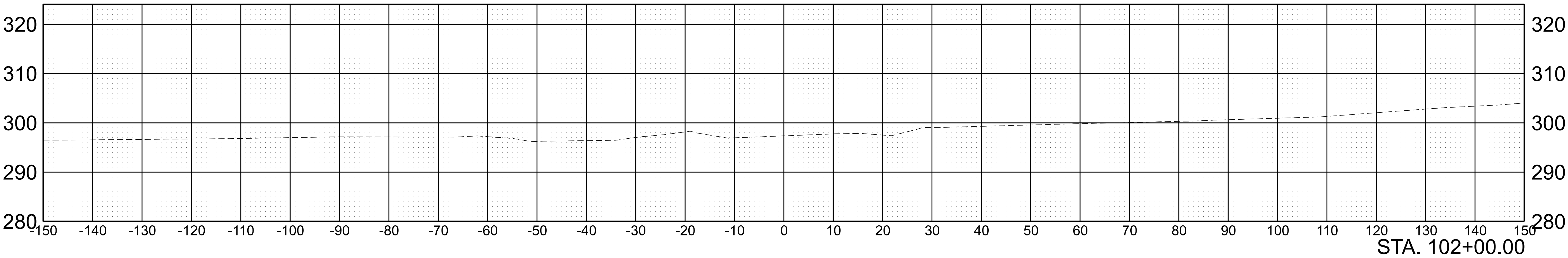
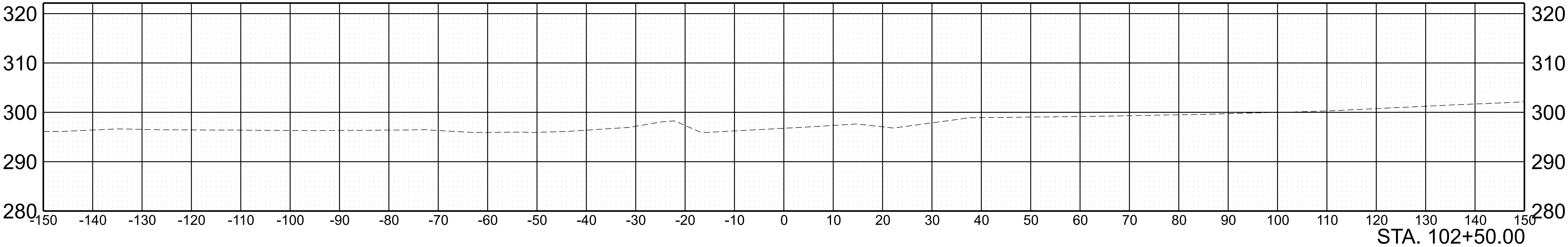
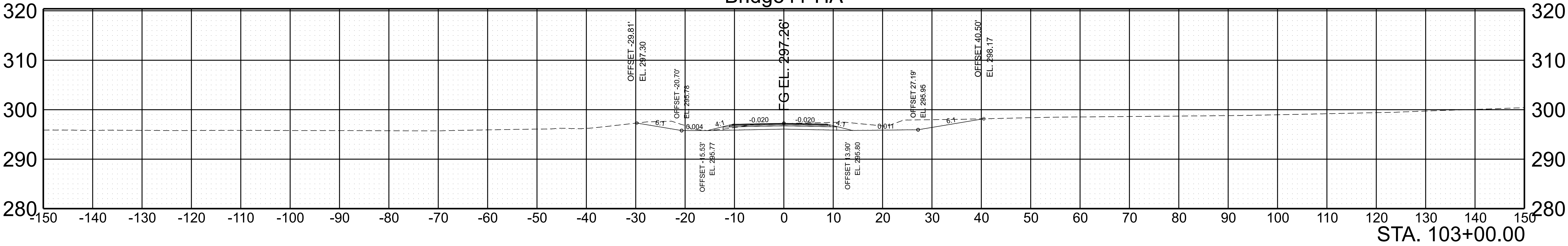
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		6



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
DRAINAGE MAP
STA. 100+00.00 TO STA. 148+00.00 SCALE: 1" = 200'

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

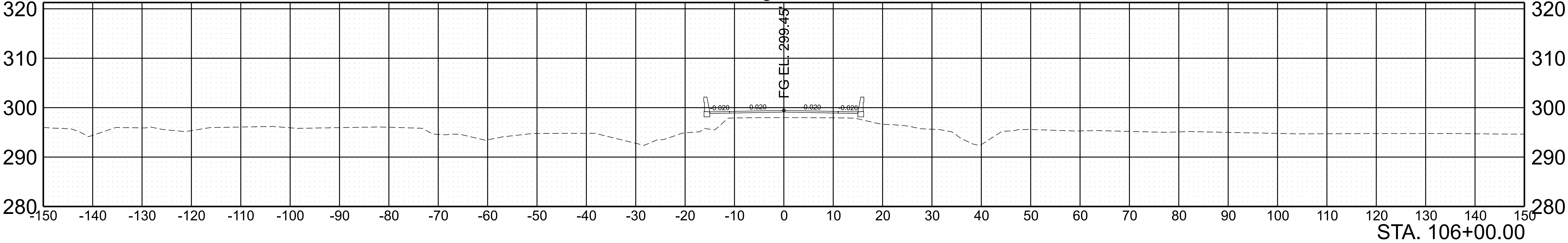
Bridge41-HA



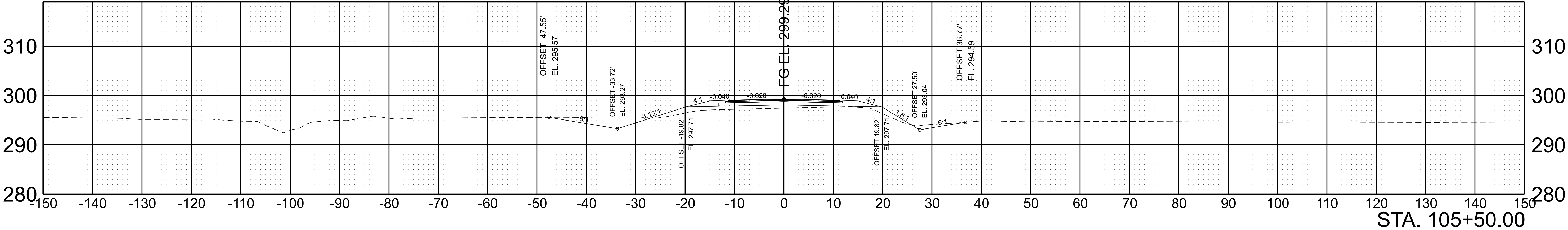
SCALE:	1"=10' HORIZ.	BEGIN STA. 102+00.00
	1"=10' VERT.	END STA. 103+00.00

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

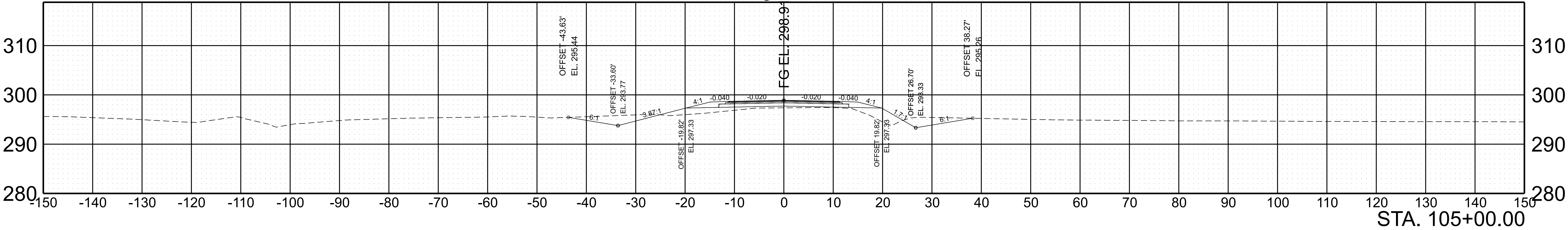
Bridge41-HA



Bridge41-HA

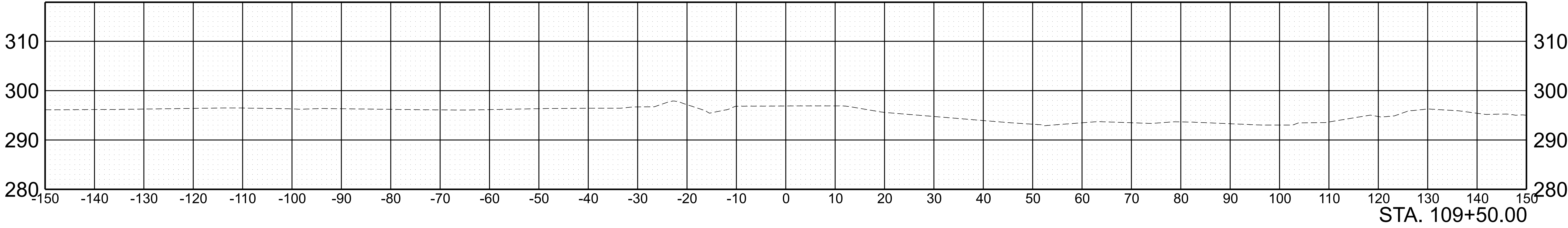
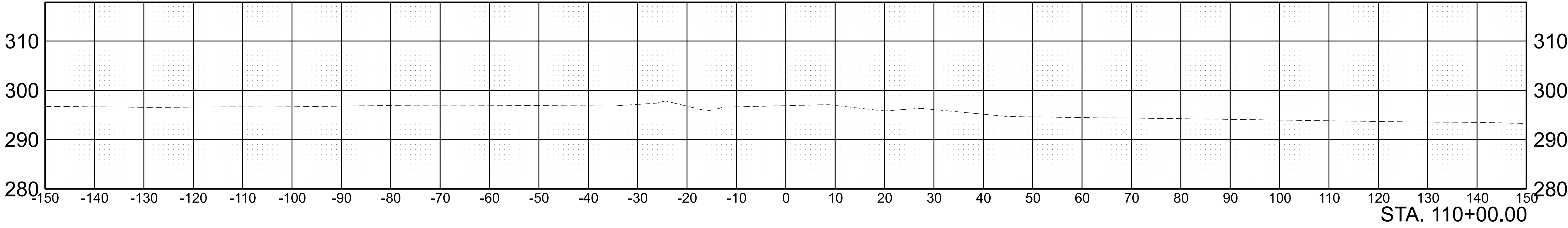
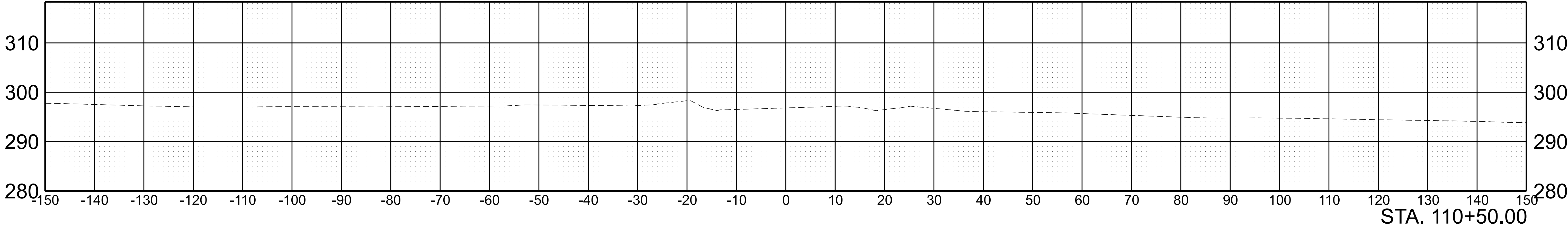


Bridge41-HA



SCALE:	1"=10' HORIZ.	BEGIN STA. 105+00.00
	1"=10' VERT.	END STA. 106+00.00

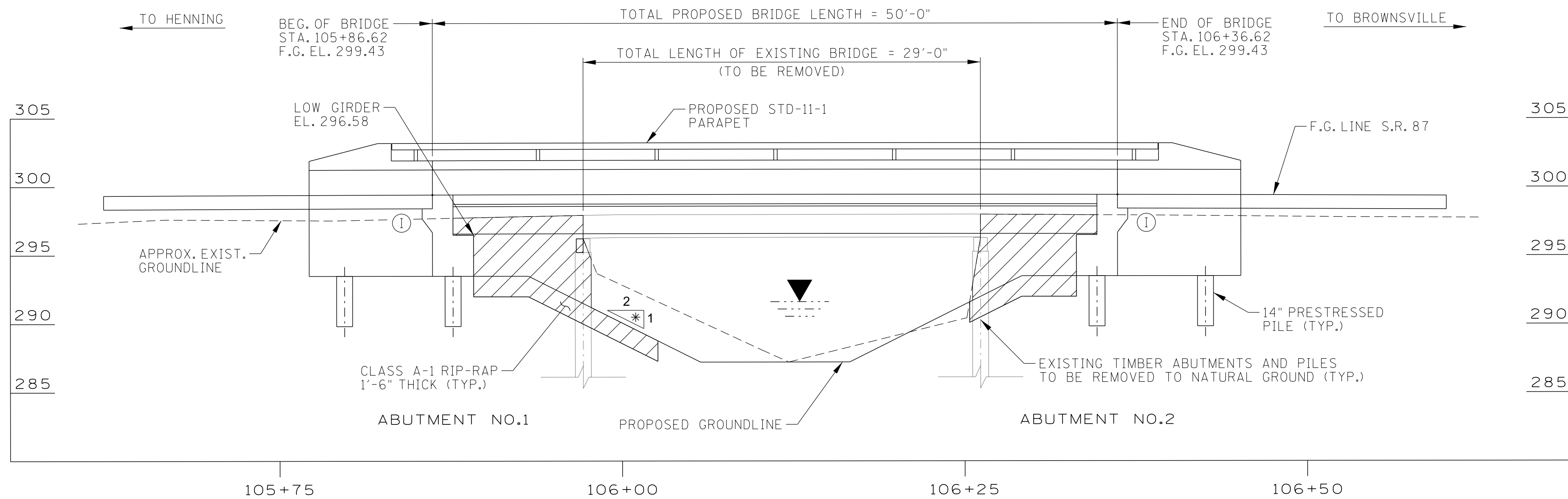
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2025		12



SCALE: 1"=10' HORIZ.	BEGIN STA. 109+50.00
1"=10' VERT.	END STA. 110+50.00

8/19/2025 10:03:55 AM C:\TMP\PIPW\ISE\ID0160779\38SR0870001-DES-PRE.DGN

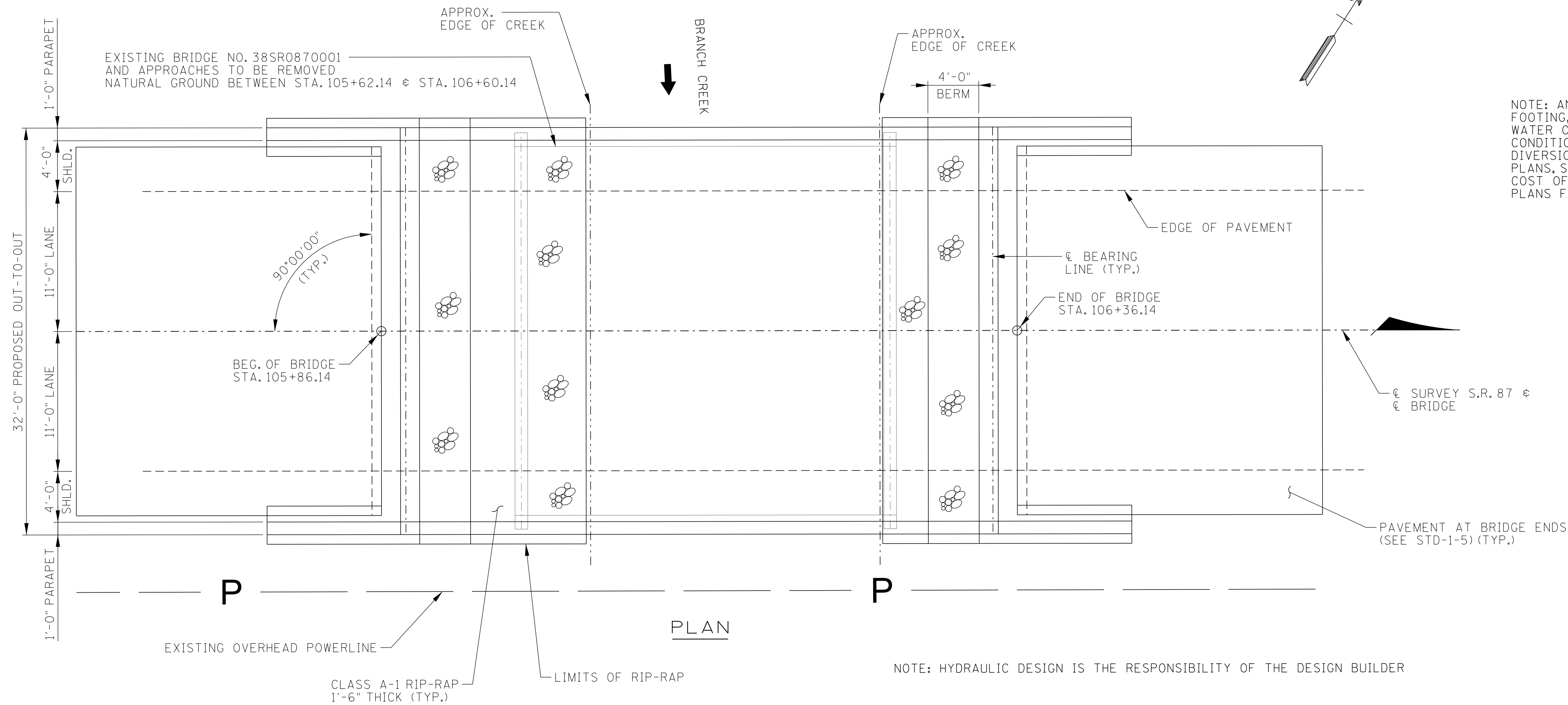
PIN NO.: 134848.00
DESIGN BY: DATE: //
DRAWN BY: DATE: //
SUPERVISED BY: DATE: //
CHECKED BY: DATE: //



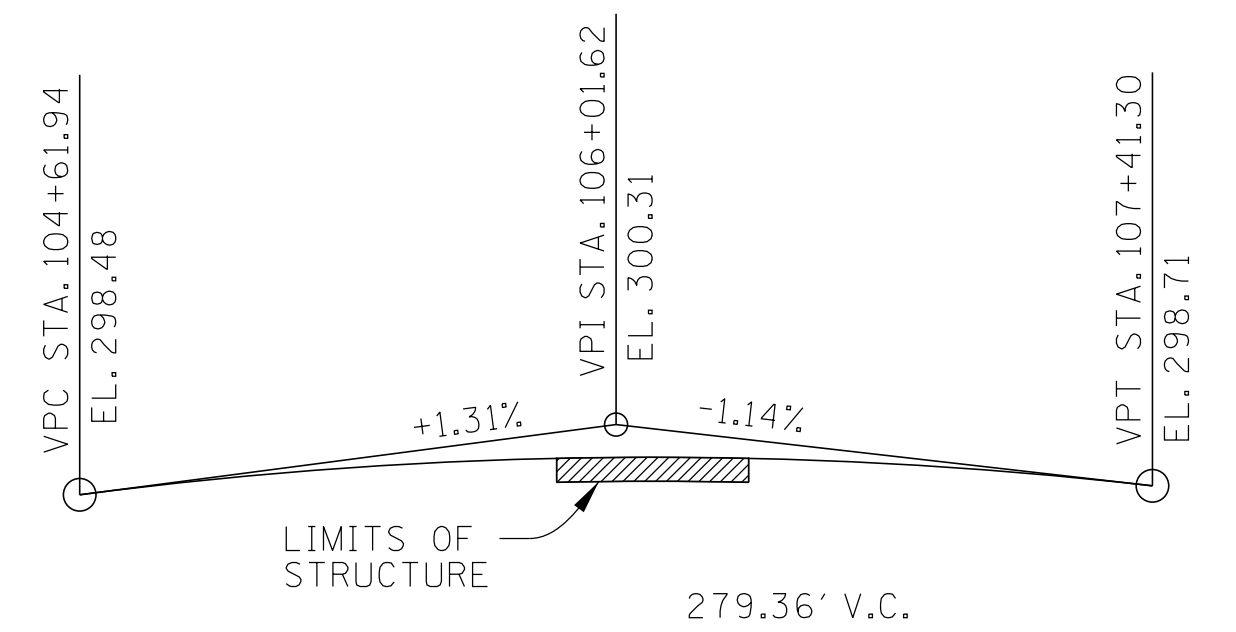
* DENOTES: 2:1 ORIENTED AS RIGHT ANGLE
TO ABUTMENT.

DENOTES: AREA TO BE EXCAVATED AND
PAID FOR AS ROADWAY ITEM

① DENOTES: INTEGRAL ABUTMENT



NOTE: HYDRAULIC DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER



GRADE SKETCH
STATE ROUTE 87
NO SCALE

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G. PIER/BENT FOOTING, RIP-RAP PLACEMENT, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).

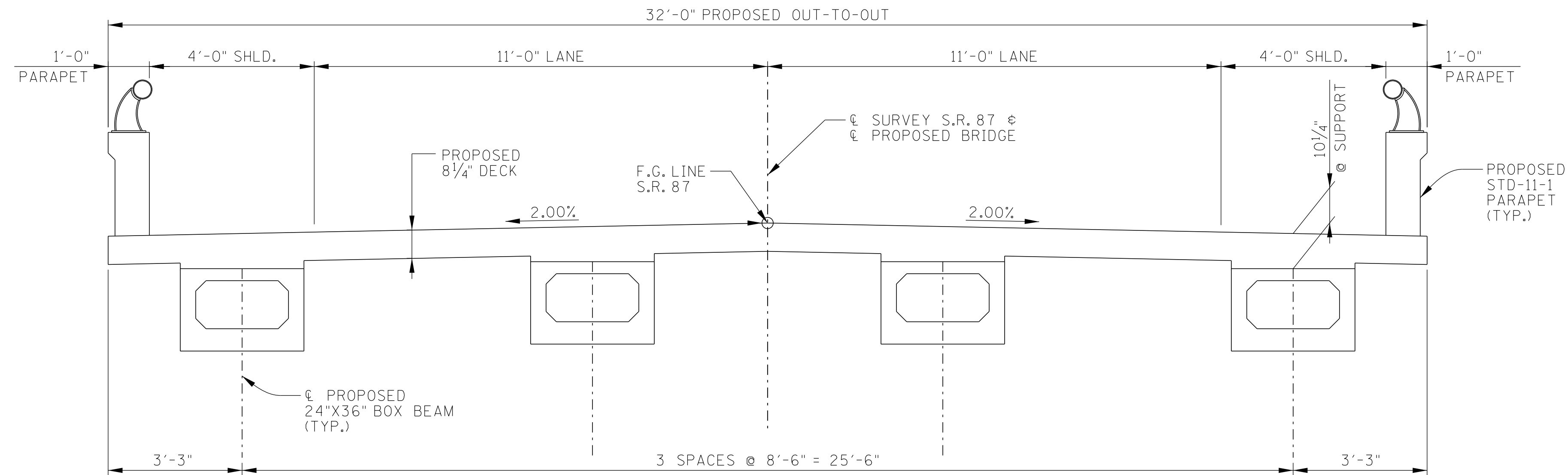
2049 ADTT = 14
22'-0" ROADWAY,
4'-0" SHOULDER EACH SIDE
AND STD-11-1 PARAPET
DESIGN SPEED = 55 MPH

SEALED BY

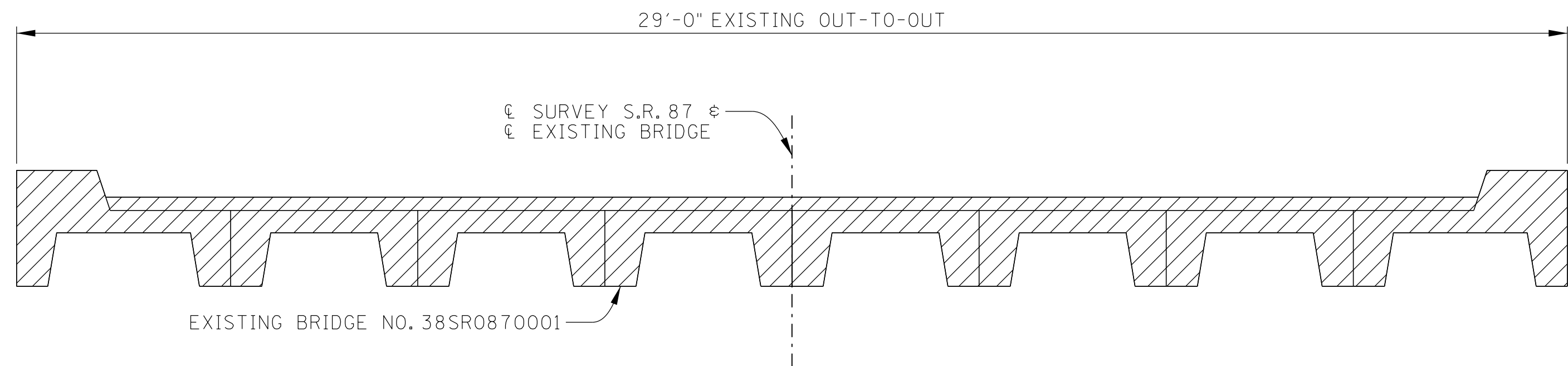
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRELIMINARY LAYOUT OF BRIDGE
STATE ROUTE 87 OVER BRANCH CREEK
BRIDGE I.D NO. 38SR0870001
STATION 106+11.14
LOG MILE 2.30
HAYWOOD COUNTY
2025

B-5

CONST. NO.:			
PROJECT NO.		YEAR	SHEET NO.
38SR0870001		2025	B-6
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
	- -		
	- -		
	- -		
	- -		



TYPICAL SECTION - PROPOSED
(LOOKING FORWARD ON SURVEY)



TYPICAL SECTION - EXISTING
(LOOKING FORWARD ON SURVEY)

GENERAL NOTES

- CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021 EDITION.)
- DESIGN SPECIFICATIONS: 9TH EDITION (2021) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.
- LOADING: HL-93 LIVE LOAD INCREASED BY 10% IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS; SEISMIC CATEGORY "II" WITH AS = ---, SDS = ---, SD1 = --- (1000 YEAR RETURN PERIOD); DEAD LOADS SHALL INCLUDE 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.
- SUPERSTRUCTURE: TO CONSIST OF ONE SINGLE SPAN OF SIMPLY SUPPORTED 24"X36" PRESTRESSED BOX BEAMS WITH COMPOSITE CONCRETE SLAB.
- CONCRETE: CLASS A F'C=3000, CLASS D F'C=4000 PSI FOR BRIDGE DECK
- BEAM CONCRETE: CLASS A F'CI=7000 PSI, CLASS A F'C=8000 PSI FOR PROPOSED PRESTRESSED BOX BEAMS
- REINFORCING STEEL: TO BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. EPOXY COAT ALL SLAB STEEL.
- BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.
- USE STD-11-1 PARAPETS
- TEXTURE COATING: TO BE GRAY (36440) EXCEPT ENTIRE PARAPET TO BE WHITE (37886).
- EXCAVATION: TO BE BASED ON EXISTING GROUND AT ABUTMENTS
- FLUMES AT BRIDGE ENDS ARE NOT REQUIRED.
- BRIDGE DECK DRAINS ARE NOT REQUIRED.
- EXISTING BRIDGE DESCRIPTION: SINGLE SPAN AT 29'-0" SIMPLY SUPPORTED CONCRETE CHANNEL BRIDGE WITH A 29'-0" OUT-TO-OUT WIDTH.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRELIMINARY TYPICAL CROSS-SECTION
STATE ROUTE 87 OVER BRANCH CREEK
BRIDGE I.D NO. 38SR0870001
STATION 106+11.14
LOG MILE 2.30
HAYWOOD COUNTY
2025

PIN NO.: 134848.00
DESIGN BY: DATE: / /
DRAWN BY: DATE: / /
SUPERVISED BY: DATE: / /
CHECKED BY: DATE: / /