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LINE AND GRADE INDEX OF SHEETS

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SHEETS NOT USED : 5, 7-14

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

MADISON COUNTY

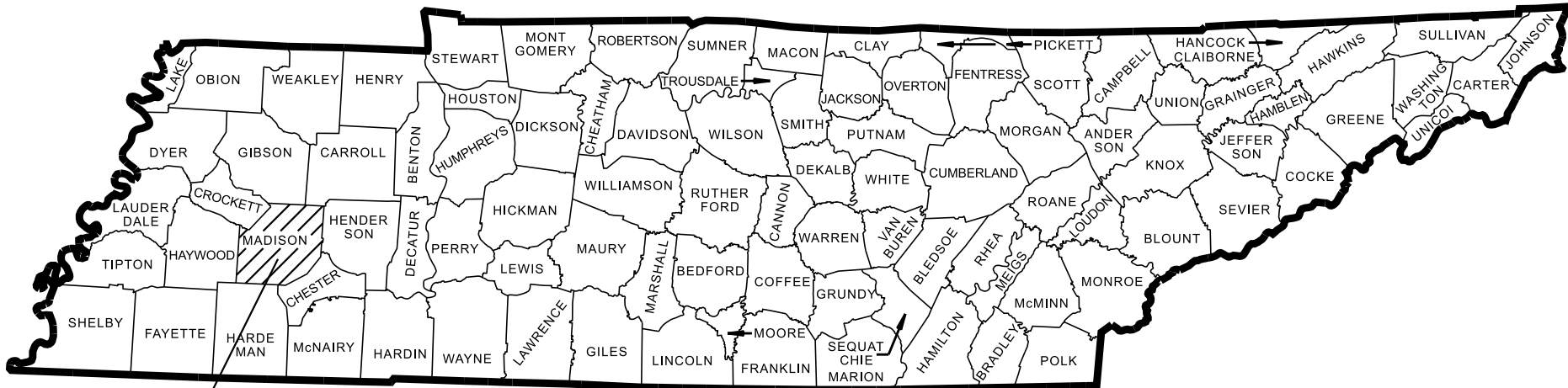
STATE ROUTE 138
BRIDGE OVER
OVERFLOW, L.M. 4.69

LINE AND GRADE
BRIDGE REPLACEMENT

STATE HIGHWAY NO. 138

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO
RAILROAD INVOLVEMENT	YES	NO X

TENN.	YEAR 2026	SHEET NO. 1
FED. AID PROJ. NO.		
STATE PROJ. NO.		R4SVAR-S1-058



PROJECT LOCATION
BRIDGE ID. # 57SR1380007

END PROJECT NO. R4SVAR-S1-058 R.O.W.

STA. 110+86.01 S.R.138

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY

STA. 110+50.00 S.R.138

BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY

STA. 104+75.00 S.R.138

BEGIN PROJECT NO. R4SVAR-S1-058 R.O.W.

STA. 103+87.84 S.R.138

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 APRIL 1, 2026 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

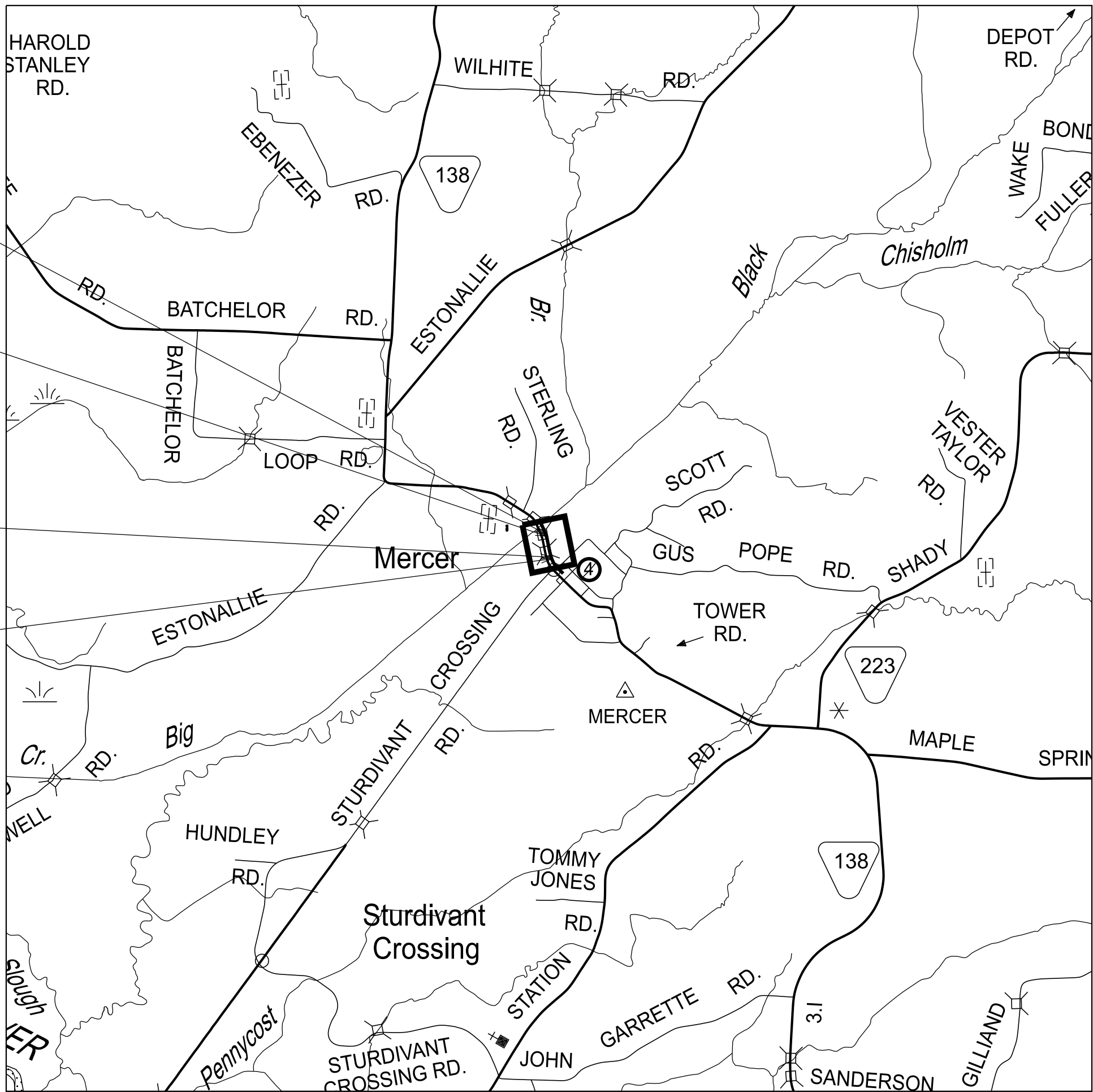
TDOT PROJECT MANAGER: DEREK LINK

DESIGN FIRM : GRESHAM SMITH

DESIGNER : AUSTIN BIGGS, P.E. CHECKED BY BEN COLES, P.E.

P.E. NO. R4SVAR-S1-058

PIN NO. 137109.13



SCALE: 1"= 1/2 MILE

R.O.W. LENGTH	0.132 MILES
ROADWAY LENGTH	0.098 MILES
BRIDGE LENGTH	0.011 MILES
PROJECT LENGTH	0.109 MILES ▲

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

NO EXCLUSIONS

LINE
AND
GRADE

SEALED BY

APPROVED:

Shane Hester

SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED:

Will Reid

WILL REID, COMMISSIONER

SURVEY 03-2026	TRAFFIC DATA
TN STATE LIDAR UTILIZED	ADT (2029) 910
WITH SUPPLEMENTAL	ADT (2049) 1000
SURVEY FOR EXISTING	DHV (2049) 110
STREAM AND BRIDGE ONLY	D 65 - 35
	T (ADT) 8 %
	T (DHV) 5 %
	V 30 MPH

RIGHT-OF-WAY

- (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.
- (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.
- (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.

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.

UTILITY OWNERS

CABLE/FIBER/TELEPHONE:

AT&T

315 E. College Street

Jackson, TN 38301

CONTACT: Daniel R. Potts

OFFICE PHONE: 901 488 2359

CELL PHONE: N/A

Email: dp7607@att.com

ELECTRIC:

Southwest Tennessee Electric Membership Corporation

1009 E. Main Street

Brownsville, TN 38012

CONTACT: Joshua Kennedy

OFFICE PHONE: 731 585 0531

CELL PHONE: N/A

Email: jkennedy@stemc.com

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	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	2026	R4SVAR-S1-058	3A

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	PERM SLOPE	CONST	AIR RIGHTS	PERM HIGHWAY
				BOOK	PAGE													
1	MERCER GIN COMPANY, INC.	138	018.00	643	152		2.090	2.090		0.264	0.264		1.826			0.122		
2	MERCER GIN INC.	138	043.00	557	456	6.340		6.340	0.277		0.277	6.063						
3	MERCER GIN INC.	138	026.01	700	278	1307 S.F.		1307 S.F.				1307 S.F.						
4	TONY KELLY	138	025.02	755	1516	70.540		70.540	0.182		0.182	70.358						
5	MERCER GIN COMPANY, INC.	138	019.00	643	152		51.570	51.570		0.259	0.259		51.311			0.168		
6	GAY MULHERIN, JASON MULHERIN JR., AND HOLLY MULHERIN	138	024.00	711	1323	243.500		243.500				243.500						
7	MERCER CEMETERY	138	023.00			1.630		1.630				1.630						
ACQUISITION TOTALS (ACRES)									0.983							0.289		

DISTURBED AREA		
IN BETWEEN SLOPE LINES		0.474 (AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)		0.360 (AC)
TOTAL DISTURBED AREA		0.834 (AC)
TOTAL PROJECT AREA		1.456 (AC)

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY ACQUISITION TABLE

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	3B

BEGIN PROJ. NO. R4SVAR-S1-058 PRELIMINARY
STA. 104+75.00

BEGIN PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 103+87.84

END PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 110+50.00

END PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 110+86.01

PRESENT R.O.W. PER PROJ. NO. BRS-138(2)

PRESENT R.O.W. PER PROJ. NO. BRS-138(2)

PROPERTY LINES PER TAX MAP

PROP. R.O.W.

WTL-2

WWC-1

WWC-2

PROP. R.O.W.

TEMP. CONST. EASEMENT

PROPERTY LINES PER TAX MAP

N.T.S. PROPERTY LINE DETAIL

SEALED BY

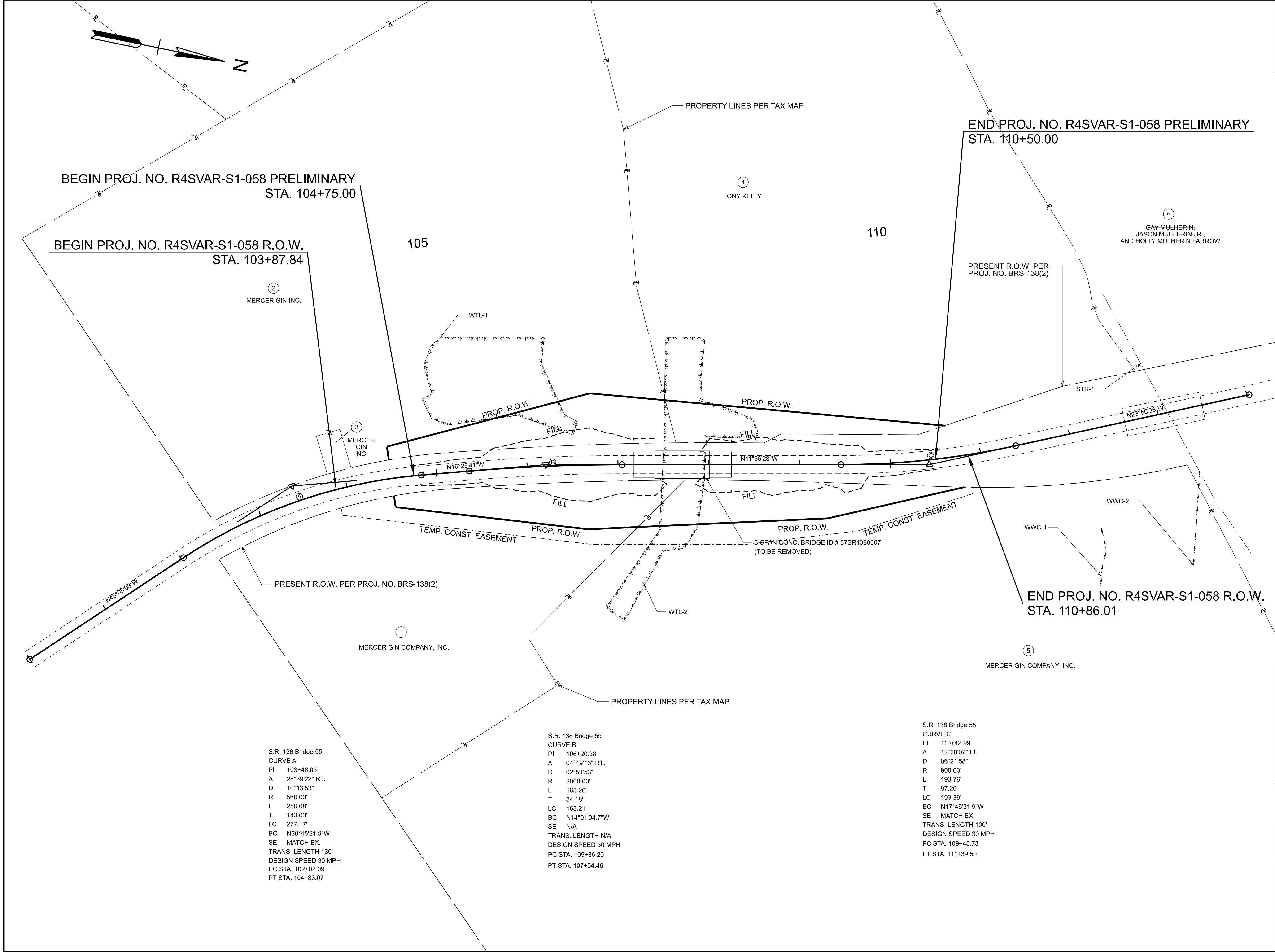
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY
MAP

STA. 82+00.00 TO STA. 130+00.00
SCALE: 1" = 200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	4



8/4/2026 7:23:35 AM C:\BMS\STRUCTUREPOINT-PW-01\WES STANTON\DWG\57SR138-SHT-PRESENT LAYOUT-BRIDGE 55.DGN

S.R. 138 Bridge 55
CURVE A
PI 103+46.03
Δ 28°39'22" RT.
D 10°13'53"
R 560.00'
L 280.08'
T 143.03'
LC 277.17'
BC N30°45'21.9"W
SE MATCH EX.
TRANS. LENGTH 130'
DESIGN SPEED 30 MPH
PC STA. 102+02.99
PT STA. 104+83.07

S.R. 138 Bridge 55
CURVE B
PI 106+20.38
Δ 04°49'13" RT.
D 02°51'53"
R 2000.00'
L 168.26'
T 84.18'
LC 168.21'
BC N14°01'04.7"W
SE N/A
TRANS. LENGTH N/A
DESIGN SPEED 30 MPH
PC STA. 105+36.20
PT STA. 107+04.46

S.R. 138 Bridge 55
CURVE C
PI 110+42.99
Δ 12°20'07" LT.
D 06°21'58"
R 900.00'
L 193.76'
T 97.26'
LC 193.39'
BC N17°46'31.9"W
SE MATCH EX.
TRANS. LENGTH 100'
DESIGN SPEED 30 MPH
PC STA. 109+45.73
PT STA. 111+39.50

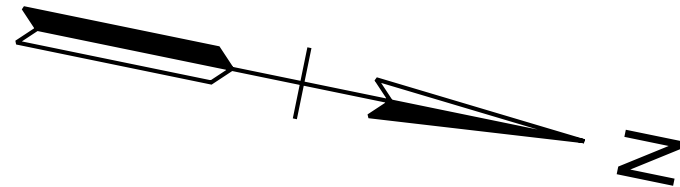
SEALED BY

TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

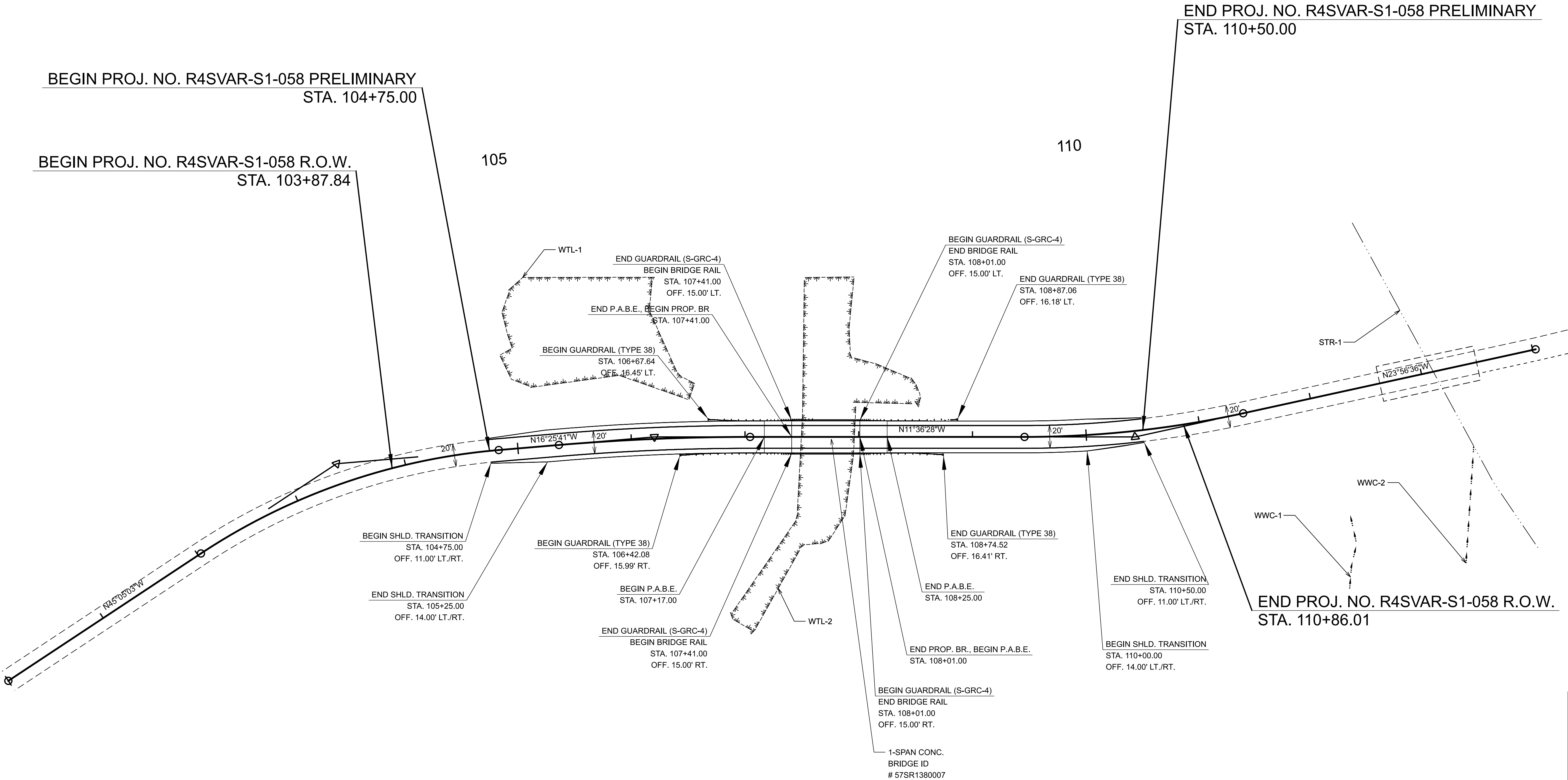
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PRESENT
LAYOUT**

STA. 102+00.00 TO STA. 114+00.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	4B



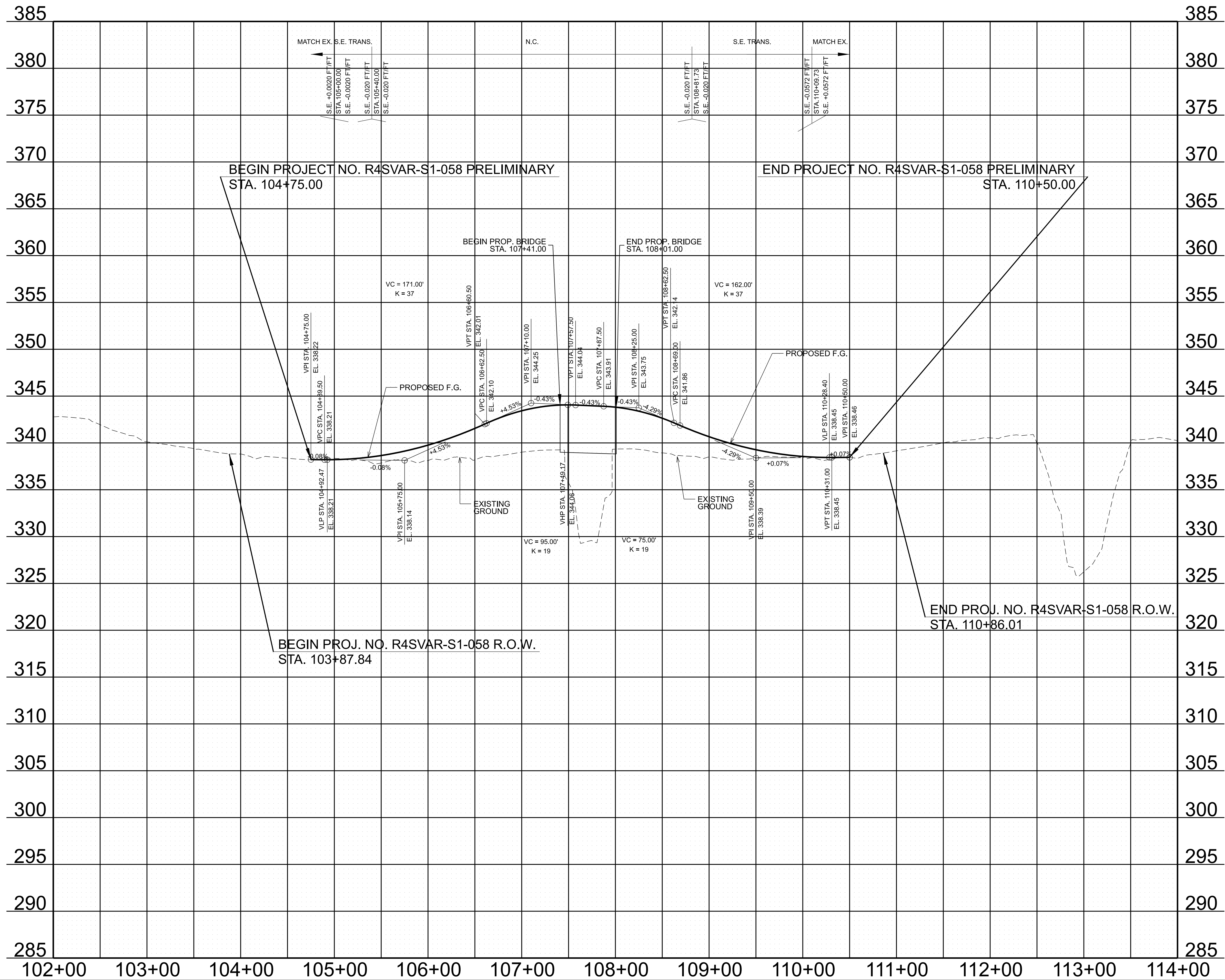
SEALED BY

TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
LAYOUT**

STA. 102+00.00 TO STA. 114+00.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	4C

SEALED BY

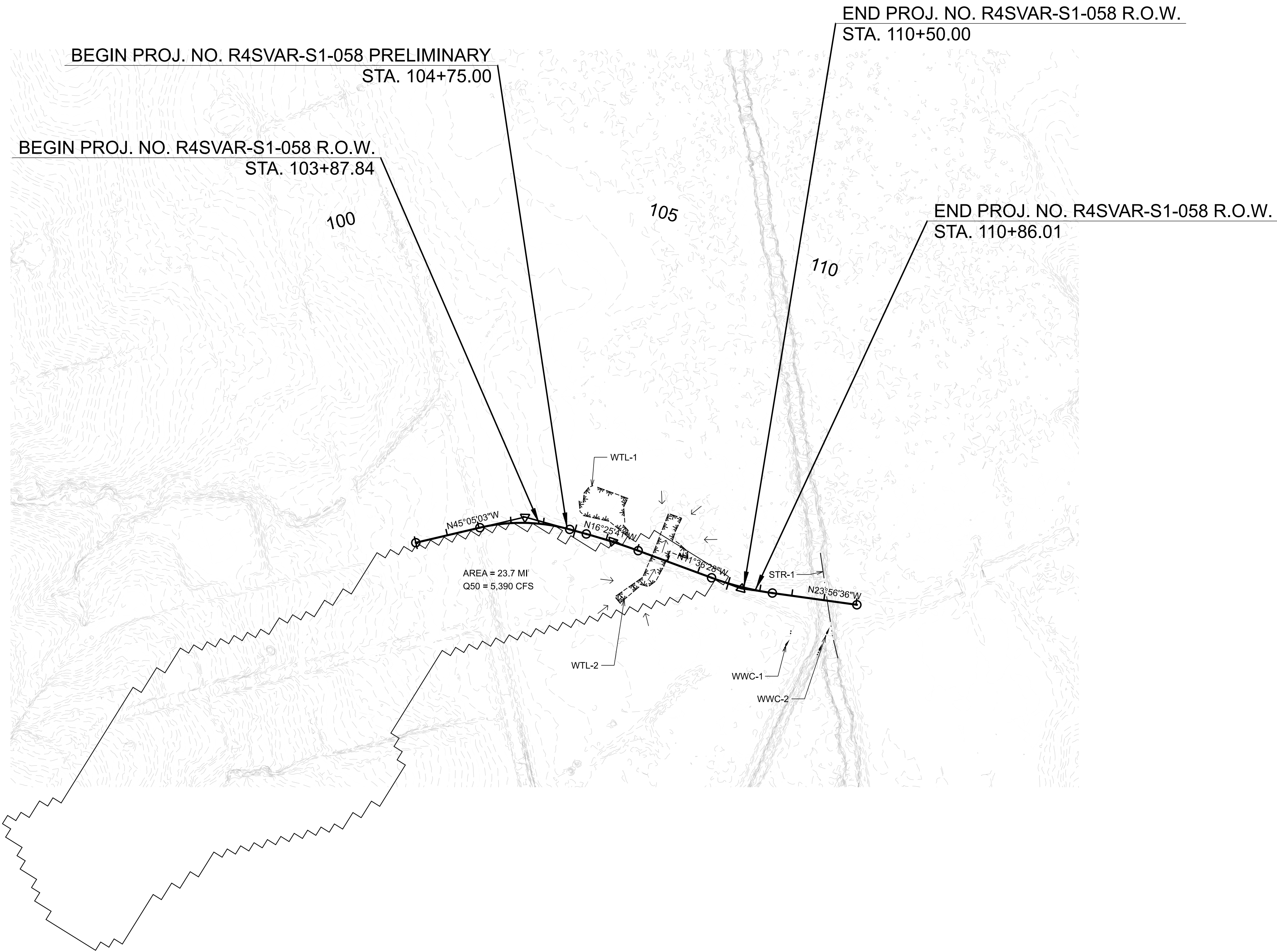
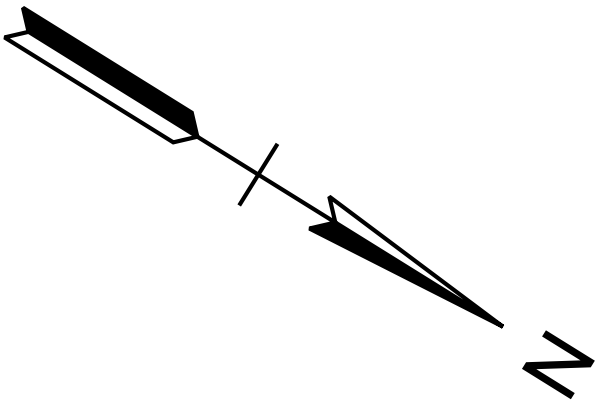
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
PROFILE**

STA. 102+00.00 TO STA. 114+00.00

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	6



SEALED BY

TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

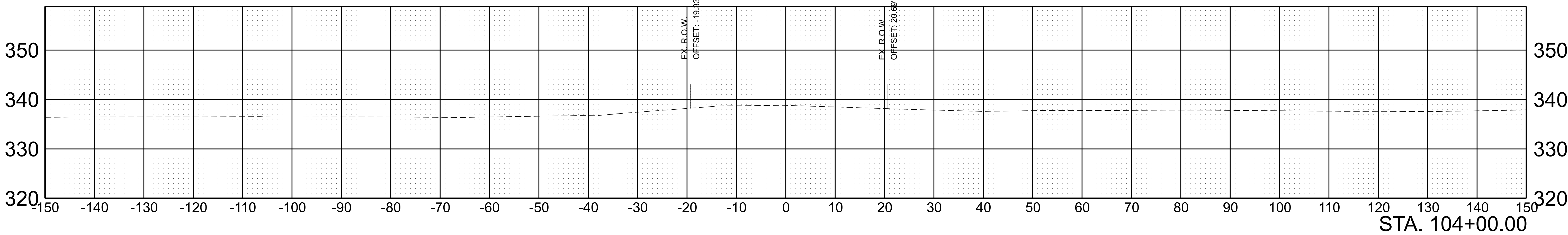
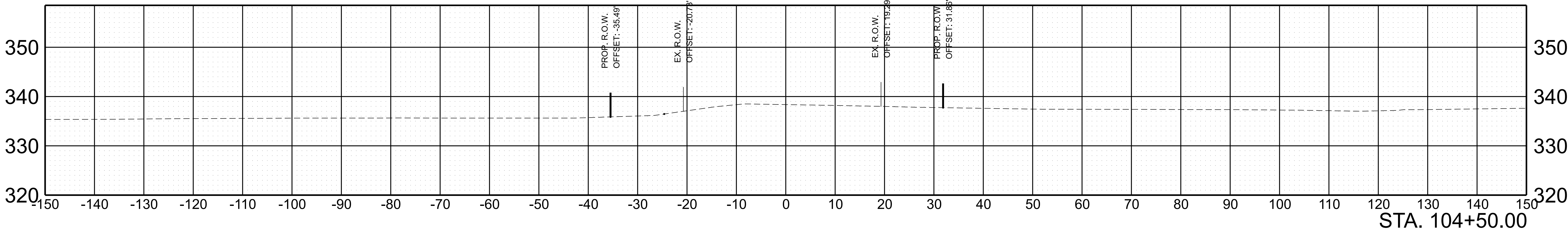
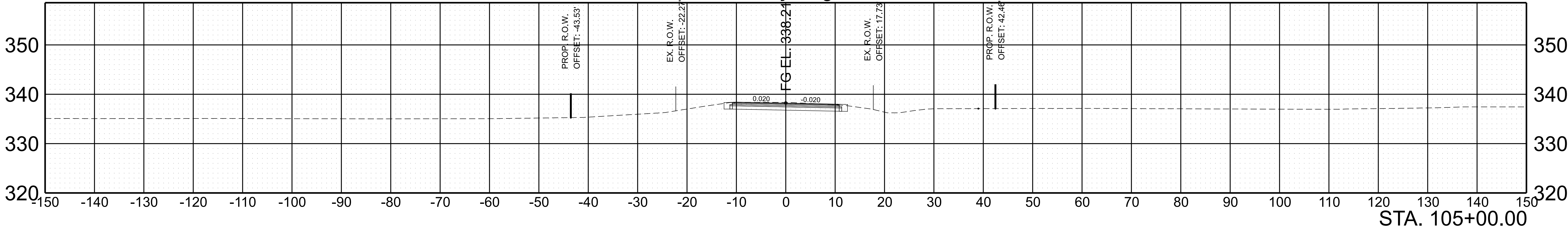
**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE
MAP**

STA. 82+00.00 TO STA. 130+00.00
SCALE: 1" = 200'

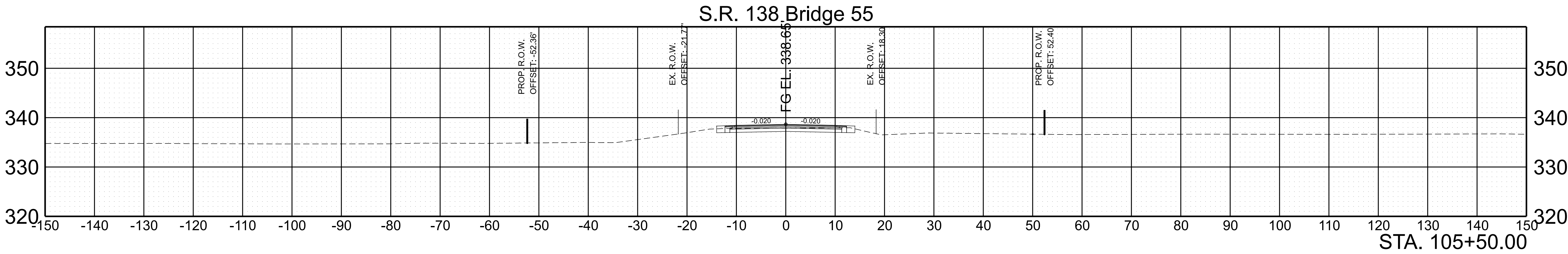
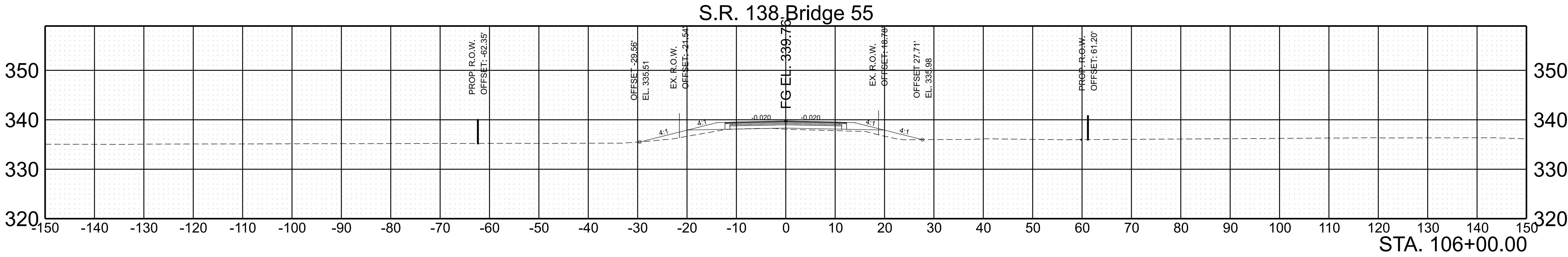
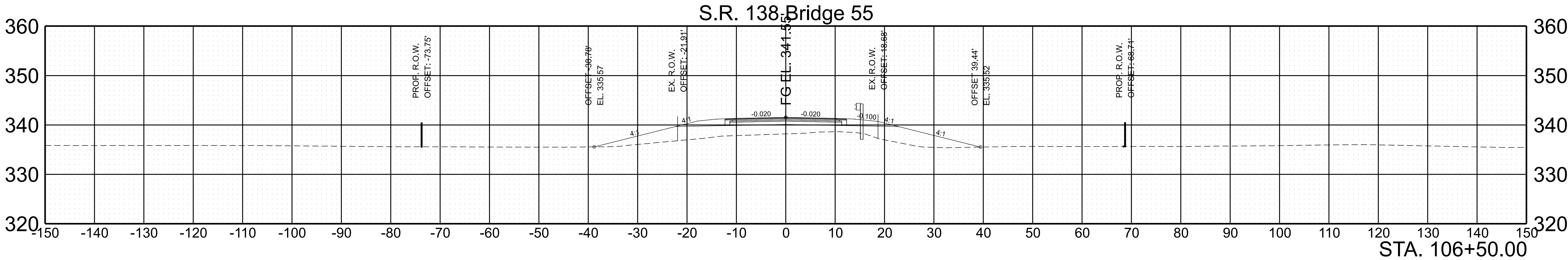
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	15

S.R. 138 Bridge 55



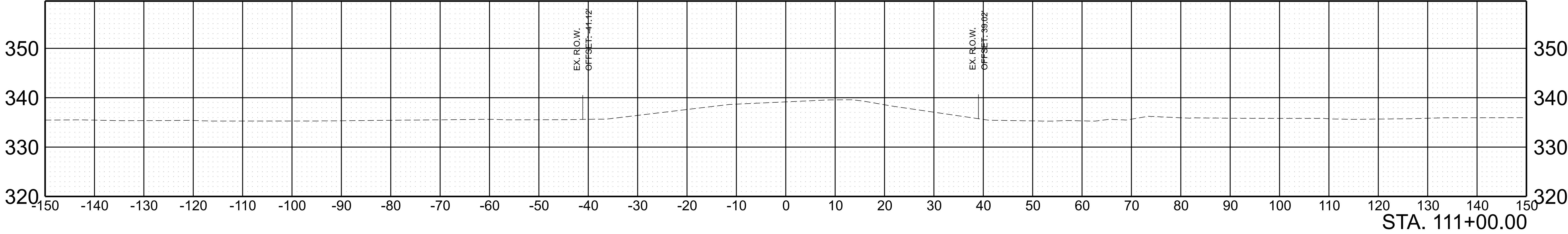
SCALE:	1"=10' HORIZ.	BEGIN STA. 104+00.00
	1"=10' VERT.	END STA. 105+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	16

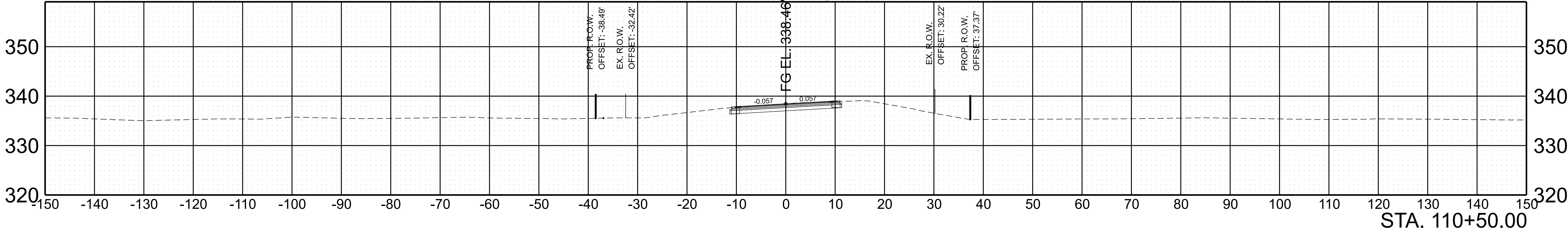


SCALE:	1"=10' HORIZ.	BEGIN STA. 105+50.00
	1"=10' VERT.	END STA. 106+50.00

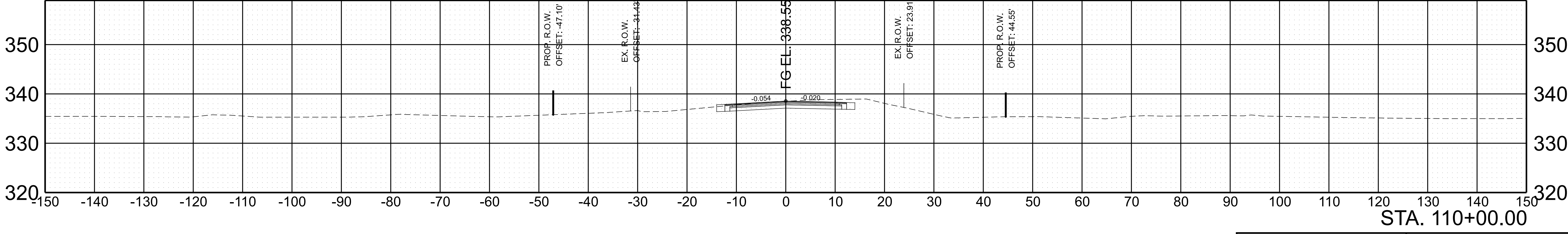
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	19



S.R. 138 Bridge 55



S.R. 138 Bridge 55



SCALE:	1"=10' HORIZ.	BEGIN STA. 110+00.00
	1"=10' VERT.	END STA. 111+00.00

GENERAL NOTES

- STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
CONCEPTUAL LAYOUT OF BRIDGE
STATE ROUTE 138 OVER
BIG BLACK CREEK OVERFLOW
BRIDGE ID. NO. 57SR1380007
LOG MILE 4.69
STATION 107+71.00
MADISON COUNTY



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

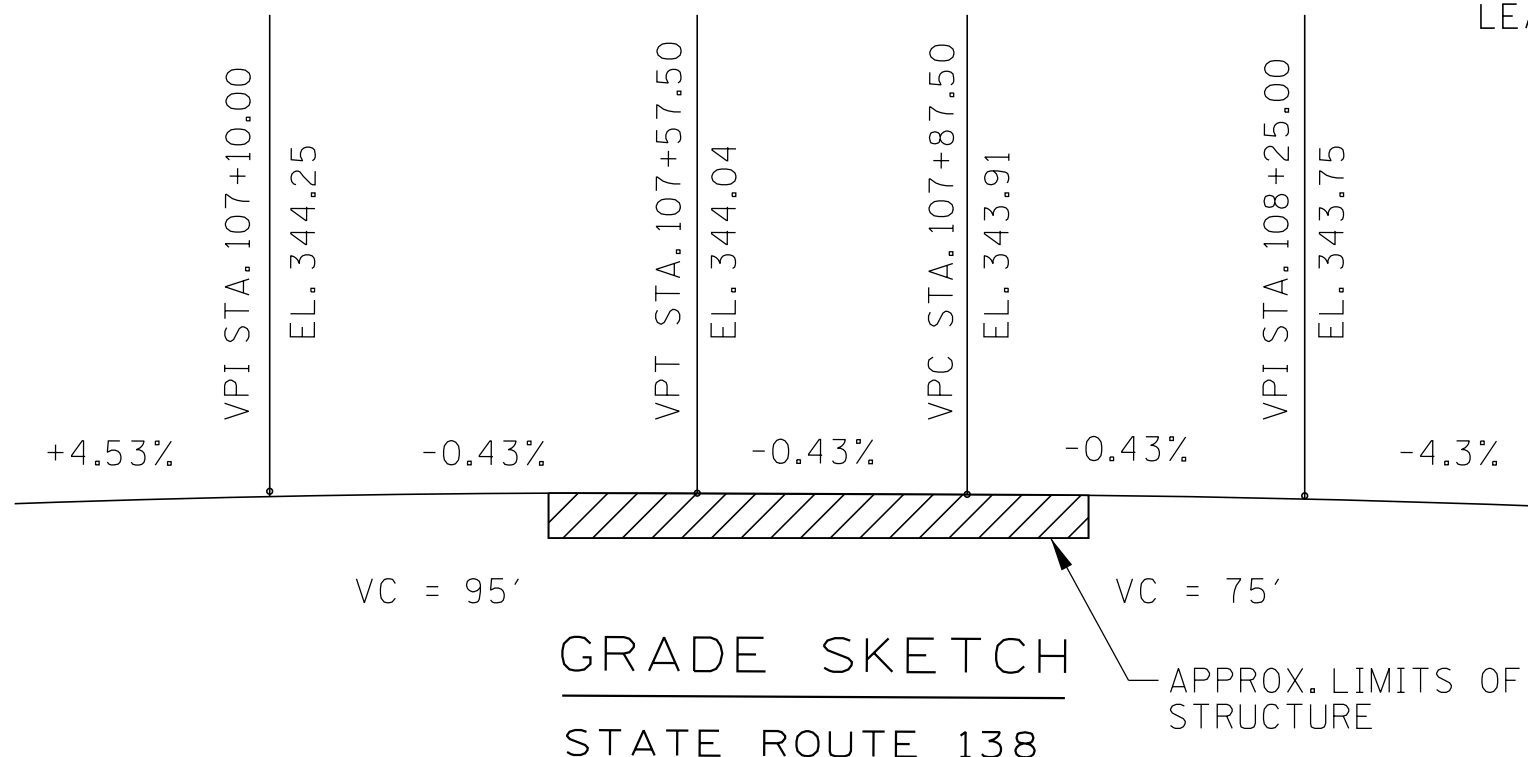
* DENOTES: ORIENTED AT RIGHT ANGLE TO ABUTMENT (TYP.)

▲ DENOTES: RIP-RAP CLASS, THICKNESS, AND LIMITS TO BE
VERIFIED BY THE DESIGN BUILDER USING
TDOT GUIDELINES (TYP.)



HYDRAULIC DATA

DRAINAGE AREA = 23.7 MI²
DESIGN DISCHARGE (50 YR.) = 5390 CFS
WATER AREA PROVIDED BELOW EL. 338.07 = 245.76 FT²
50 YR. VELOCITY = 3.26 FPS
50 YR. BRIDGE BACKWATER = 0.79 FT
ROADWAY OVERTOPPING EL. 338.37 FT.
100 YR. DISCHARGE = 6110 CFS

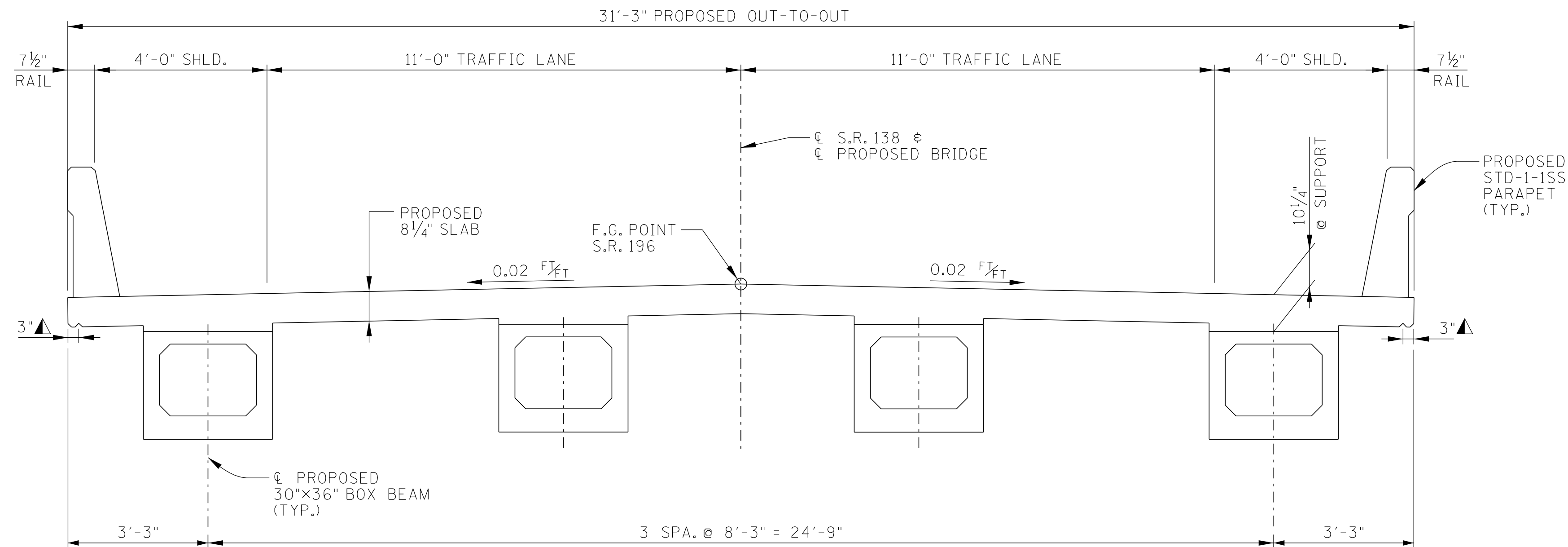


PIN NO.:	137109.13	
DESIGN BY:	S. MIRZA	DATE: 05/2026
DRAWN BY:	S. MIRZA	DATE: 05/2026
SUPERVISED BY:	H. NEAL	DATE: 05/2026
CHECKED BY:	B. WELLS	DATE: 05/2026



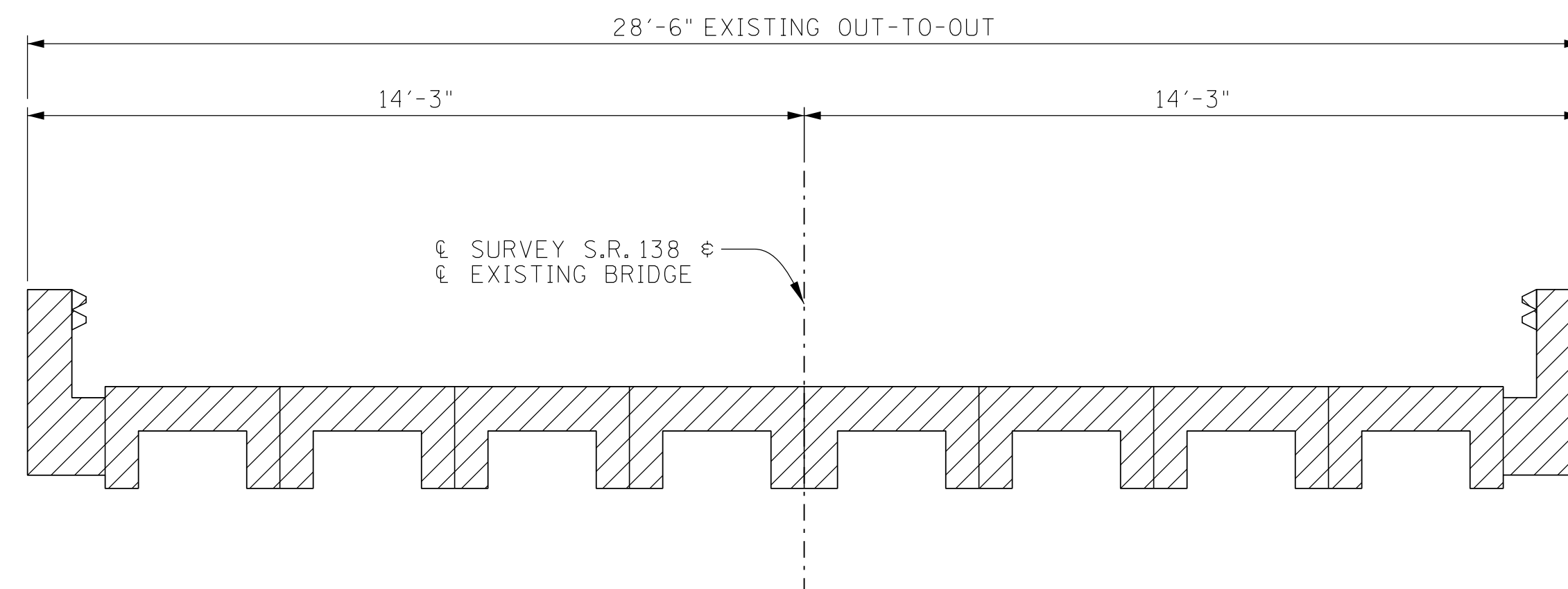
**Gresham
Smith**

CONST. NO.: R4SVAR-S1-058			
PROJECT NO.		YEAR	SHEET NO.
		2026	2 OF 2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-		
-	-		
-	-		
-	-		
-	-		



PROPOSED TYPICAL CROSS-SECTION
(LOOKING FORWARD ON SURVEY)

▲ DENOTES: 1" TRIANGULAR DRIP NOTCH TO RUN
FULL LENGTH OF SLAB



EXISTING TYPICAL CROSS-SECTION
(LOOKING FORWARD ON SURVEY)

/// DENOTES: EXISTING STRUCTURE TO BE REMOVED

PIN NO.: 137109.13
DESIGN BY: S. MIRZA DATE: 05/2026
DRAWN BY: S. MIRZA DATE: 05/2026
SUPERVISED BY: H. NEAL DATE: 05/2026
CHECKED BY: B. WELLS DATE: 05/2026



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
CONCEPTUAL TYPICAL SECTION
STATE ROUTE 138 OVER
BIG BLACK CREEK OVERFLOW
BRIDGE ID. NO. 57SR1380007
LOG MILE 4.69
STATION 107+71.00
MADISON COUNTY