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LINE AND GRADE INDEX OF SHEETS

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SHEETS NOT USED : 7-14

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

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

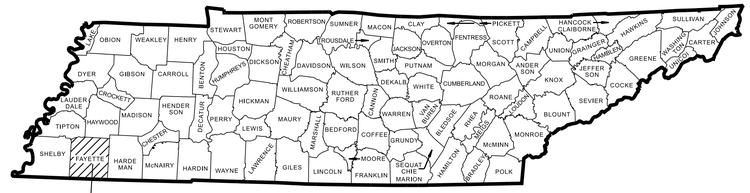
TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	R4SVAR-S1-058	

FAYETTE COUNTY

STATE ROUTE 196
BRIDGE OVER BRANCH OF
RUSSELL CREEK, L.M. 1.35

LINE AND GRADE PLANS
BRIDGE REPLACEMENT

STATE HIGHWAY NO. 196



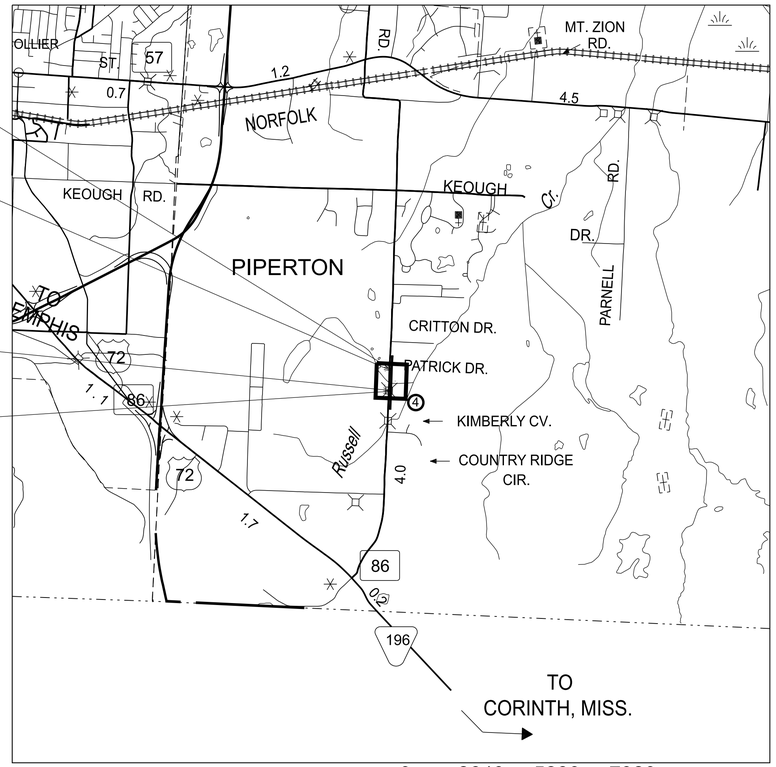
PROJECT LOCATION
BRIDGE ID. # 24F00240001

END PROJECT NO. R4SVAR-S1-058 R.O.W.
STA. 113+80.33 S.R.196

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 113+55.33 S.R.196

BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 106+70.00 S.R.196

BEGIN PROJECT NO. R4SVAR-S1-058 R.O.W.
STA. 106+45.00 S.R.196



SCALE: 1"= 1/2 MILE

N

NO EXCLUSIONS

ROAD TO BE CLOSED DURING CONSTRUCTION

LINE AND GRADE

SEALED BY

DESIGN EXCEPTION APPROVED - -
1) DESIGN EXCEPTION FOR 4 FOOT PROPOSED SHOULDER.

APPROVED:
SHANE HESTER, 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 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. 137109.03

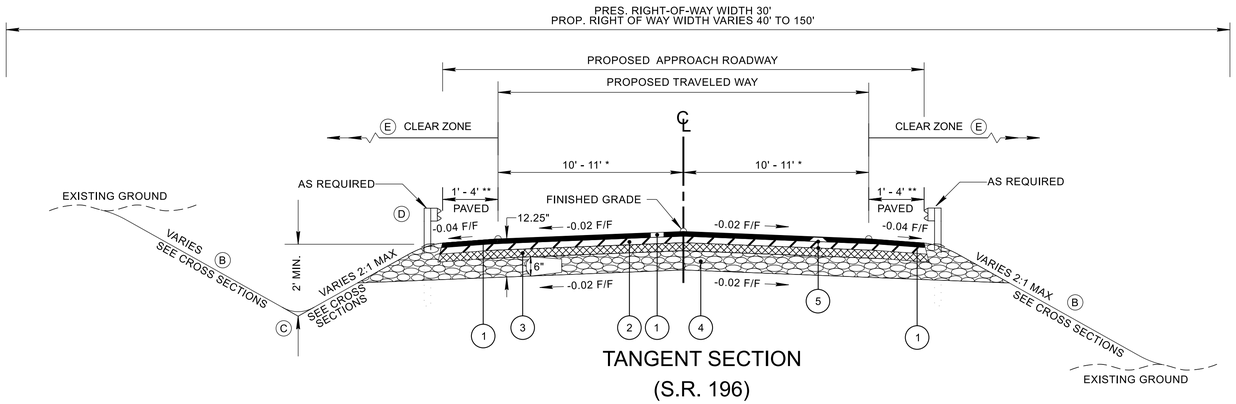
R.O.W. LENGTH	0.139 MILES
ROADWAY LENGTH	0.117 MILES
BRIDGE LENGTH	0.013 MILES
PROJECT LENGTH	0.130 MILES ▲

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

SURVEY 02-2026	TRAFFIC DATA	
TN STATE LIDAR UTILIZED WITH SUPPLEMENTAL SURVEY FOR EXISTING STREAM AND BRIDGE ONLY	ADT (2029)	870
	ADT (2049)	1290
	DHV (2049)	155
	D	65 - 35
	T (ADT)	4 %
	T (DHV)	3 %
	V	50 MPH

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	2B



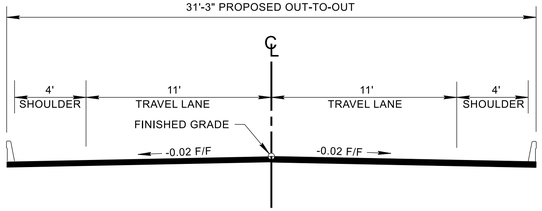
TANGENT SECTION
(S.R. 196)

(BASED ON STD. DWG. RD18-TS-5A)

FROM STA. 106+70.00 TO STA. 109+58.90
FROM STA. 110+76.90 TO STA. 113+55.33

P.A.B.E

FROM STA. 109+58.90 TO STA. 109+82.90
FROM STA. 110+52.90 TO STA. 110+76.90



BRIDGE SECTION
(S.R. 196)

FROM STA. 109+82.90 TO STA. 110+52.90
SEE SHEETS B1 & B2 FOR FURTHER DETAILS

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

Ⓑ 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.

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

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

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

* LANE WIDTH TRANS. FROM 10' TO 11' STA. 106+70.00 - STA. 107+20.00
* LANE WIDTH TRANS. FROM 11' TO 10' STA. 113+05.33 - STA. 113+55.33
** PAVED SHLDR. WIDTH TRANS. FROM 1' TO 4' STA. 106+70.00 - STA. 107+20.00
** PAVED SHLDR. WIDTH TRANS. FROM 4' TO 1' STA. 113+05.33 - STA. 113+55.33

PROPOSED PAVEMENT SCHEDULE

① ASPHALTIC CONCRETE SURFACE (HOT MIX) PG64-22 GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.) 411-01.10 ACS MIX (PG64-22) GRADING "D"	④ MINERAL AGGREGATE 6.00" THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"
② BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "B-M2" @ 2.00" THICK (APPROX. 226 LB./S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"	⑤ 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) PG64-22 GRADING "A" @ 3.00" THICK (APPROX. 345 LB./S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A"	

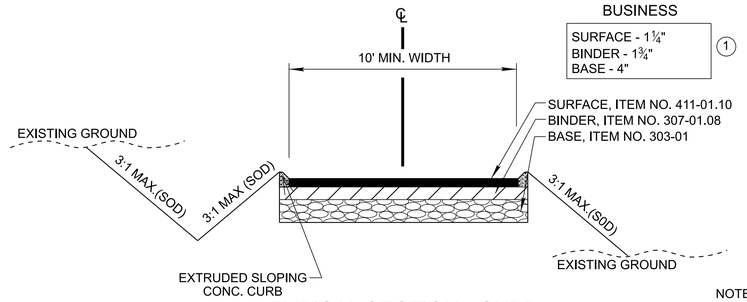
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	2B1



TYPICAL SECTION - CURB

PRIVATE DRIVE TO BUSINESS PROPERTY

NOTE:
AT BUSINESS ENTRANCES TO PARKING AREAS
PAVE 12:1 MAXIMUM SIDE SLOPE TO TOUCHDOWN POINT.

(1) WHERE SURFACE OF EXISTING SURFACE DRIVE IS CONCRETE, SUBSTITUTE 6" CONCRETE.

(2) IF ANY EXISTING DRIVE IS GREATER THAN 10'. THE WIDTH OF THE PROPOSED DRIVE SHALL BE EQUAL TO THE EXISTING WIDTH.

(3) GRAVEL DRIVES TO BE 6" OF BASE STONE, ITEM NO. 303-01

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DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

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

RIGHT-OF-WAY

(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 ROADWAY 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.

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: NA
Email: dp7607@att.com

CABLE:
COMCAST
Address NA
City, State Zip NA
CONTACT: Jeffrey Oliver
OFFICE PHONE: 772 631 5371
CELL PHONE: NA
Email: jeffrey_oliver@comcast.com

ELECTRIC:
Chickasaw Electric Cooperative
17970 Hwy. 64 East
Somerville, TN 38068
CONTACT: Loyd Muncy
OFFICE PHONE: 901 466 2536
CELL PHONE: NA
Email: lmuncy@chickasaw.coop

GAS:
Hardeman Fayette Utility District
15175 Hwy. 57 East/P.O. Box 7
Moscow, TN 38057
CONTACT: Clay Joyner
OFFICE PHONE: 901 877 6236
CELL PHONE: NA
Email: cjoyner@hfutilitydistrict.com

WATER/SEWER:
City of Piperton
3300 Hwy 196 South/P.O. Box 328
Piperton, TN 38017
CONTACT: Richard Mills
OFFICE PHONE: 901 221 7806
CELL PHONE: NA
Email: rmills@pipertontn.gov

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DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
NOTES,
UTILITY NOTES
AND
UTILITY OWNERS

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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	JACQUELINE F. ADAIR TRUSTEE OF THE LESLIE ADAIR TRUST	184	003.00	170	03014	283.400		283.400	0.401		0.401	282.999						
2	JAMES RICHARD CHANDLER AND GLENDA G. CHANDLER	184	030.04	387	137		12.090	12.090		757 S.F.	757 S.F.		12.073					
3	JERI LYNNE ALLEN, CHRISTOPHER JAMES SREDIN AND AARON	184	030.05	170	04822		0.970	0.970					0.970					
4	RAYMOND L. PALFREY AND TRACEY G. PALFREY	184	030.06	030	07687		2.740	2.740					2.740					
5	LAZARUS SETTLE AND ROSELLA SETTLE	184	030.08	180	06285		1.410	1.410					1.410					
6	MELVIN BENTLEY AND SHELLEY WILLIAMS, TRUSTEES OF ANI	184	030.09	070	10900		5.430	5.430		0.214	0.214		5.216			3385 S.F.		
7	WILLIE DEAN SMITH AND ZANDRA DENISE JOHNSON	184	030.01	762	750		23.820	23.820		0.377	0.377		23.443					
8	ABRAHAM RHYNES, SR.	183	031.00	254	361	4.460		4.460	0.338		0.338	4.122						
9	WAYNE O. WARREN	184	030.07	507	402		1.020	1.020		1768 S.F.	1768 S.F.		0.979					
10	ADAM STEPHEN RAWIE	183	030.03	170	05084		1.330	1.330					1.330					
11	ABRAHAM RHYNES AND LEANNA RHYNES	183	032.00	214	798	2.390		2.390				2.390						
12	BRUCE A. SHEPPARD AND SUZANNE L. SHEPPARD	183	030.04	220	05787		4.490	4.490					4.490					
ACQUISITION TOTALS (ACRES)									1.388							3385 S.F.		

DISTURBED AREA

IN BETWEEN SLOPE LINES	1.136	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.667	(AC)
TOTAL DISTURBED AREA	1.803	(AC)
TOTAL PROJECT AREA	2.153	(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	2026	R4SVAR-S1-058	3B

N

BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 106+70.00

BEGIN PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 106+45.00

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 113+55.33

END PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 113+80.33

100 105 110 115

PROP R.O.W.

PRESENT R.O.W.
PER PERSCRIPTION

WWC-1

WWC-2

N02°05'06"E N02°34'11"E N01°41'04"E N02°25'48"E N04°08'35"E

STR-1 BRANCH OF
RUSSELL CREEK
CENTERLINE

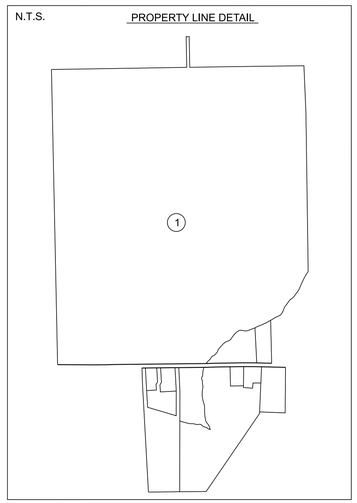
TEMP.
CONST.
ESMT.

PROP R.O.W.

PRESENT R.O.W.
PER PERSCRIPTION

PROPERTY LINES
PER TAX MAP

N.T.S. PROPERTY LINE DETAIL



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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 86+00.00 TO STA. 134+00.00
SCALE: 1" = 200'

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

N

BEGIN PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 106+45.00

BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 106+70.00

END PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 113+80.33

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 113+55.33

105

110

115

PRESENT R.O.W.
PER PERSCRIPTION

STR-1 BRANCH OF
RUSSELL CREEK
CENTERLINE

WWC-1

1
JACQUELINE F. ADAIR
TRUSTEE OF THE
LESLIE ADAIR TRUST

2-SPAN
CONC. BRIDGE
ID # 24F00240001
(TO BE REMOVED)

8
ABRAHAM RHYNES, SR.

TOP OF BANK

TOP OF BANK

PROP. R.O.W.

PROP. R.O.W.

PRESENT R.O.W.
PER PERSCRIPTION

CUT

FILL

FILL

CUT

N02°05'06"E

A

N02°31'11"E

B

S.R. 196 (ASPH.)

N01°41'04"E

C

N02°25'48"E

FILL

FILL

FILL

WWC-2

CUT

PROP. R.O.W.

TOP OF BANK

TOP OF BANK

5
~~LAZARUS SETTLE~~
~~AND ROSELLA SETTLE~~

2
JAMES
RICHARD
CHANDLER
AND GLENDA
G. CHANDLER

TEMP.
CONST.
ESMT.

6
MELVIN BENTLEY
AND SHELLEY
WILLIAMS,
TRUSTEES
OF AND FOR
CORNERSTONE
CHURCH
OF GOD IN
CHRIST

TEMP.
CONST.
ESMT.

7
WILLIE DEAN SMITH AND
ZANDRA DENISE JOHNSON

9
WAYNE O. WARREN

10
~~ADAM STEPHEN~~
~~RAWIE~~

PROPERTY LINES
PER TAX MAP

PROPERTY LINES
PER TAX MAP

4
~~RAYMOND~~
~~L. PALFREY~~
~~AND TRACEY~~
~~G. PALFREY~~

S.R. 196 Bridge 18
CURVE A
PI 108+22.00
Δ 00°26'05" RT.
D 00°45'50"
R 7500.00'
L 56.92'
T 28.46'
LC 56.92'
BC N02°18'08.7"E
SE N/A
TRANS. LENGTH N/A
DESIGN SPEED 50 MPH

S.R. 196 Bridge 18
CURVE B
PI 109+54.60
Δ 00°50'07" LT.
D 00°45'50"
R 7500.00'
L 109.34'
T 54.67'
LC 109.34'
BC N02°06'07.7"E
SE N/A
TRANS. LENGTH N/A
DESIGN SPEED 50 MPH

S.R. 196 Bridge 18
CURVE C
PI 113+71.50
Δ 00°44'44" RT.
D 01°08'45"
R 5000.00'
L 65.07'
T 32.53'
LC 65.07'
BC N02°03'26.3"E
SE N/A
TRANS. LENGTH N/A
DESIGN SPEED 50 MPH

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WITH SUPPLEMENTAL
SURVEY FOR EXISTING
STREAM AND BRIDGE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 104+00.00 TO STA. 116+00.00
SCALE: 1" = 50'

7/7/2026 10:20:58 AM
C:\BMS\STRUCTUREPOINT-PW-01\WES STANTON\DMS55067\24S196-SHT-PRESENT LAYOUT.DGN

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

N

BEGIN PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 106+45.00

BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 106+70.00

END PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 113+80.33

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 113+55.33

105

110

115

PRESENT R.O.W.
PER PERSCRIPTION

1
JACQUELINE F. ADAIR
TRUSTEE OF THE
LESLIE ADAIR TRUST

8
ABRAHAM RHYNES, SR.

PRESENT R.O.W.
PER PERSCRIPTION

PROP. R.O.W.

PROP. R.O.W.

CUT

FILL

FILL

CUT

N02°05'06"E

N02°31'11"E

N01°41'04"E

N02°25'48"E

FILL

FILL

FILL

PROP. R.O.W.

CUT

PROP. R.O.W.

5
~~LAZARUS SETTLE~~
~~AND ROSELLA SETTLE~~

2
JAMES
RICHARD
CHANDLER
AND GLENDA
G. CHANDLER

TEMP.
CONST.
ESMT.

6
MELVIN BENTLEY
AND SHELLEY
WILLIAMS,
TRUSTEES
OF AND FOR
CORNERSTONE
CHURCH
OF GOD IN
CHRIST

TEMP.
CONST.
ESMT.

7
WILLIE DEAN SMITH AND
ZANDRA DENISE JOHNSON

9
WAYNE O. WARREN

10
~~ADAM STEPHEN~~
~~RAWIE~~

PROPERTY LINES
PER TAX MAP

PROPERTY LINES
PER TAX MAP

4
~~RAYMOND~~
~~L. PALFREY~~
~~AND TRACEY~~
~~G. PALFREY~~

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 104+00.00 TO STA. 116+00.00
SCALE: 1" = 50'

7/7/2026 10:21:06 AM
C:\BMS\STRUCTUREPOINT-PW-01\WES STANTON\DMS5506712\4S196-SHT-ROW DETAILS.DGN

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

N

BEGIN PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 106+45.00

END PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 113+80.33

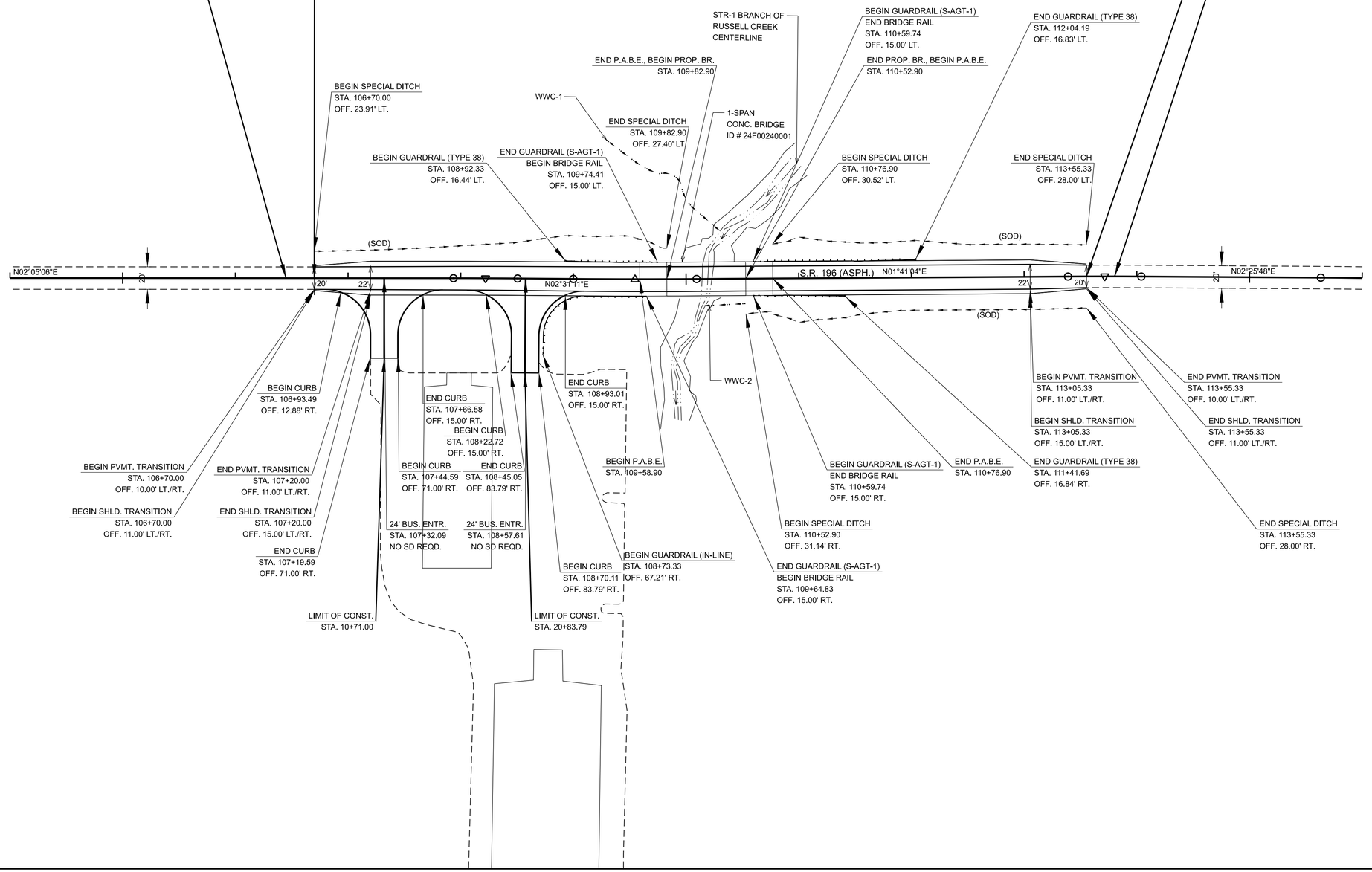
BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 106+70.00

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 113+55.33

105

110

115



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 104+00.00 TO STA. 116+00.00
SCALE: 1" = 50'

7/7/2026 10:21:16 AM
C:\BMS\STRUCTUREPOINT-PW-01\WES STANTON\DMS5506724S196-SHT-PROPOSED LAYOUT.DGN

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

BEGIN PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 106+45.00

BEGIN PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 106+70.00

END PROJ. NO. R4SVAR-S1-058 R.O.W.
STA. 113+80.33

END PROJECT NO. R4SVAR-S1-058 PRELIMINARY
STA. 113+55.33

VC = 105.00'
K = 99

VC = 155.00'
K = 97

VC = 20.00'
K = 85

VPI STA. 106+70.00
EL. 352.30

VPC STA. 106+79.50
EL. 352.27

VLP STA. 107+11.83
EL. 352.21

VPI STA. 107+32.00
EL. 352.09

VPT STA. 107+84.80
EL. 352.48

BEGIN PROP. BRIDGE
STA. 109+82.90

PROPOSED F.G.

VPC STA. 109+20.00
EL. 353.48

VPI STA. 109+30.00
EL. 353.55

VPT STA. 109+40.00
EL. 353.60

END PROP. BRIDGE
STA. 110+52.90

VPC STA. 110+92.50
EL. 354.36

VPI STA. 111+70.00
EL. 354.75

PROPOSED F.G.

VPT STA. 112+47.50
EL. 356.38

VPI STA. 113+55.33
EL. 358.64

-0.33%
+0.74%
+0.74%
+0.50%
+0.50%
+2.10%
+2.10%

(SOD)
(SOD)
(SOD)

EXISTING GROUND
EXISTING GROUND

BEGIN SPECIAL DITCH (LT)
STA. 106+70.00
ELEV. 351.75'

END SPECIAL DITCH (LT)
STA. 109+82.90
ELEV. 348.16'

BEGIN SPECIAL DITCH (LT)
STA. 110+76.90
ELEV. 349.09'

BEGIN SPECIAL DITCH (RT)
STA. 110+52.90
ELEV. 347.41'

END SPECIAL DITCH (LT)
STA. 113+55.33
ELEV. 358.77'

END SPECIAL DITCH (RT)
STA. 113+55.33
ELEV. 362.35'

405 400 395 390 385 380 375 370 365 360 355 350 345 340 335 330 325 320 315 310 305

104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00

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DEPARTMENT OF TRANSPORTATION

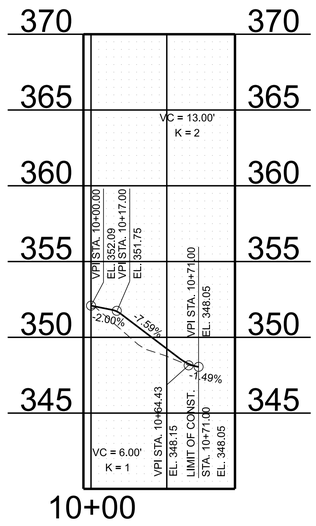
PROPOSED
PROFILE

STA. 104+00.00 TO STA. 116+00.00

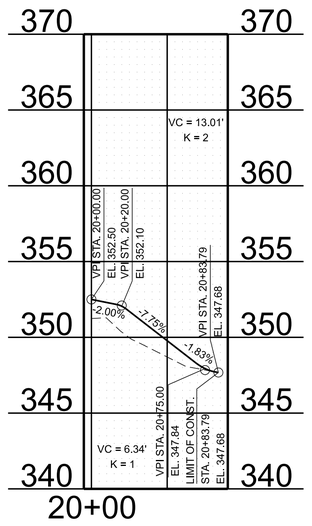
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

7/7/2026 10:21:23 AM
C:\BMS\STRUCTUREPOINT-PW-01\WES STANTON\DMS5506724S196-SHT-PROPOSED PROFILES.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	5



S.R. 196
24' BUS. ENTR.
RT. 107+32.09 (ASPH.)
TRACT NO. 6



S.R. 196
24' BUS. ENTR.
RT. 108+57.61 (ASPH.)
TRACT NO. 6

SEALED BY

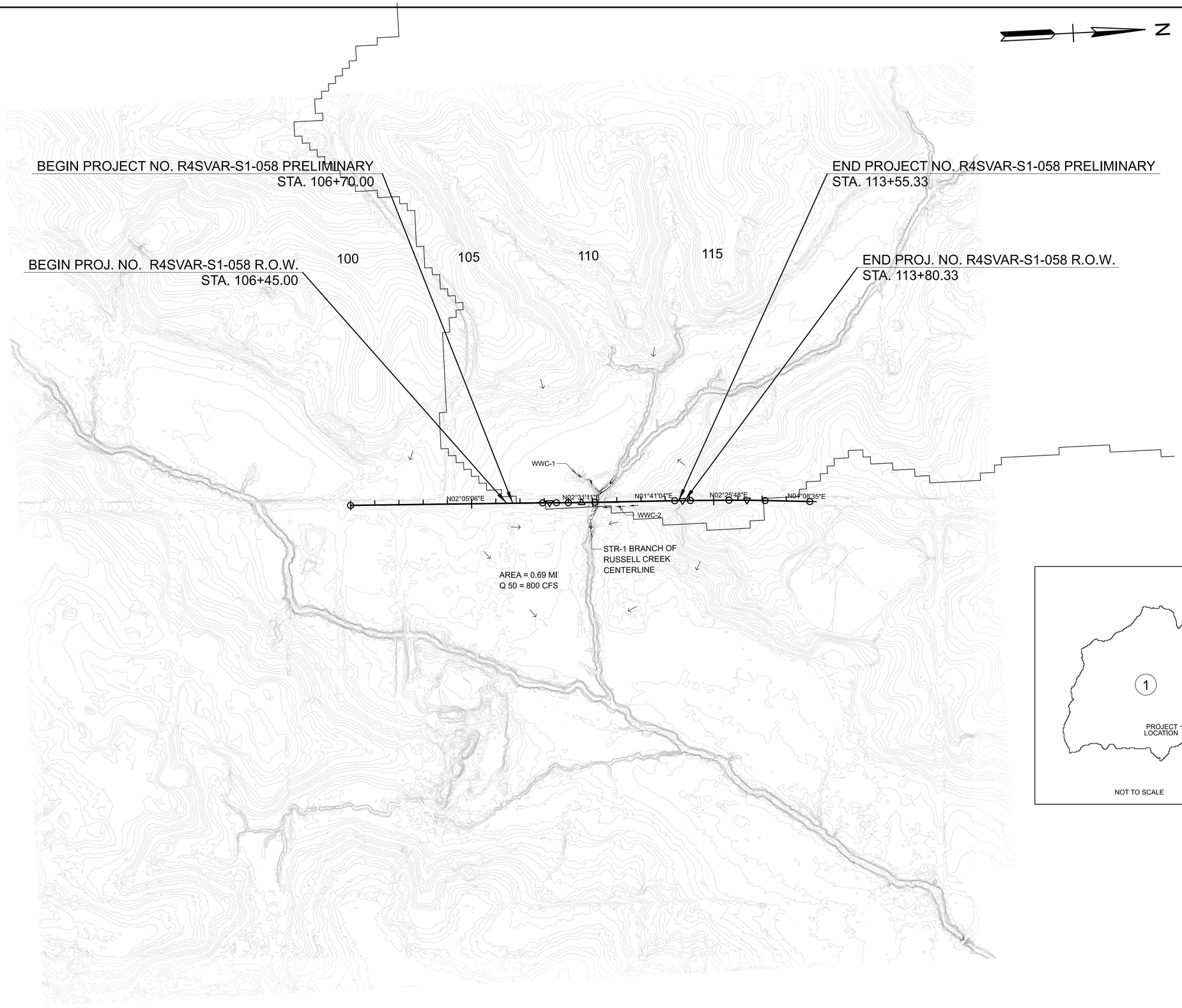
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFIES

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

7/7/2026 10:21:31 AM
C:\BMS\STRUCTUREPOINT-PW-01\KATIE KOURY\DMS5506724S196-SHT-PROPOSED DRIVEWAY PROFILES.DGN

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



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DEPARTMENT OF TRANSPORTATION

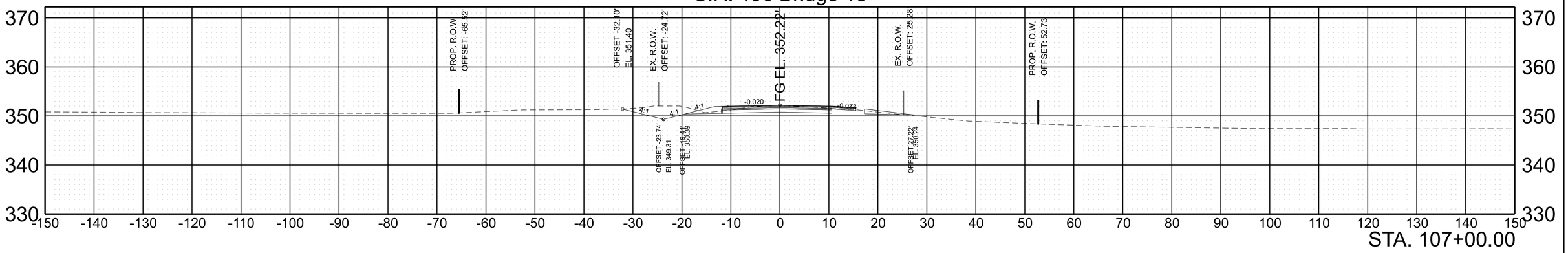
DRAINAGE MAP

STA. 100+00.00 TO STA. 118+97.23
SCALE: 1" = 200'

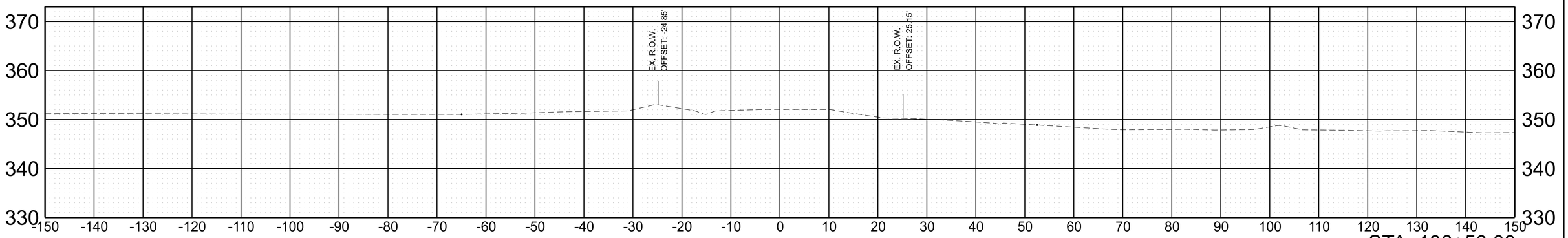
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	15

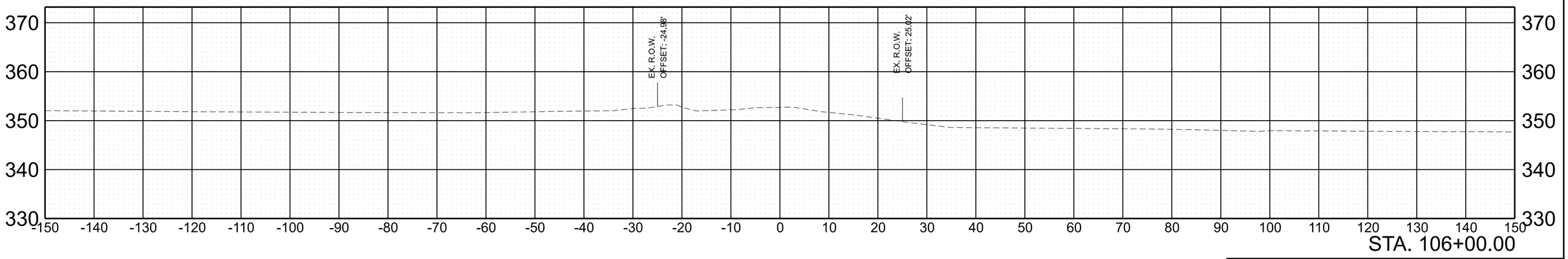
S.R. 196 Bridge 18



STA. 107+00.00



STA. 106+50.00



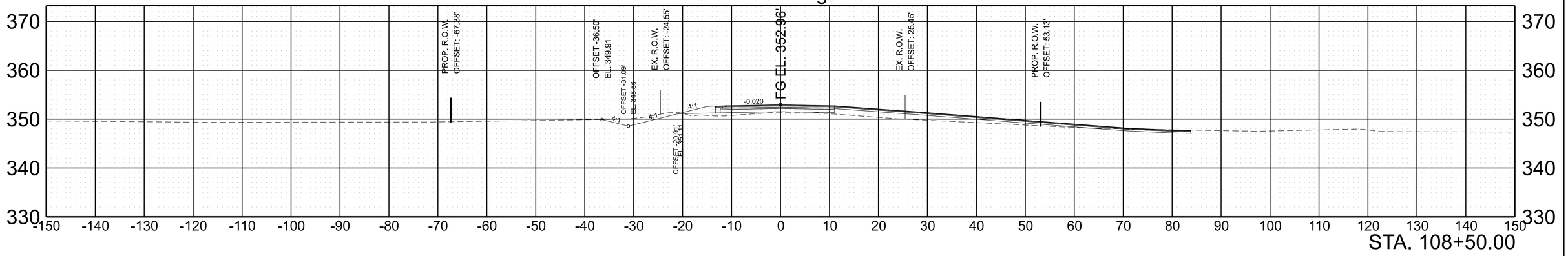
STA. 106+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 106+00.00
	1"=10' VERT.	END STA. 107+00.00

7/7/2026 10:21:54 AM
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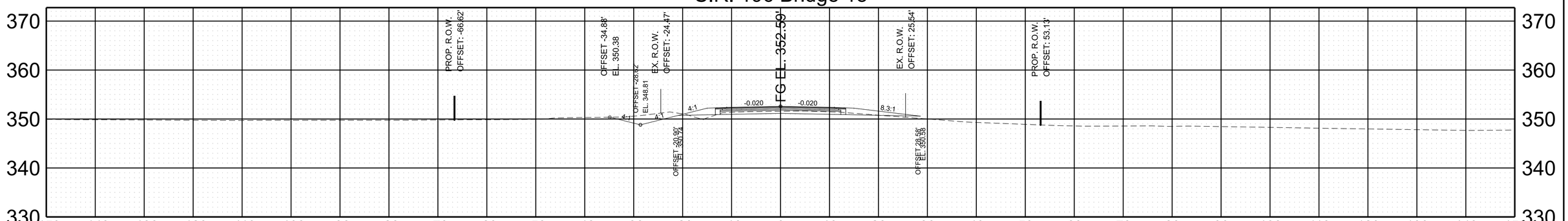
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	16

S.R. 196 Bridge 18



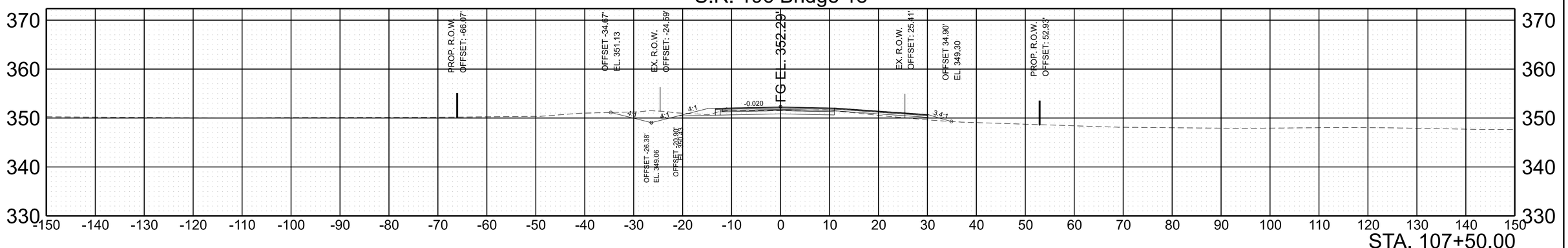
STA. 108+50.00

S.R. 196 Bridge 18



STA. 108+00.00

S.R. 196 Bridge 18



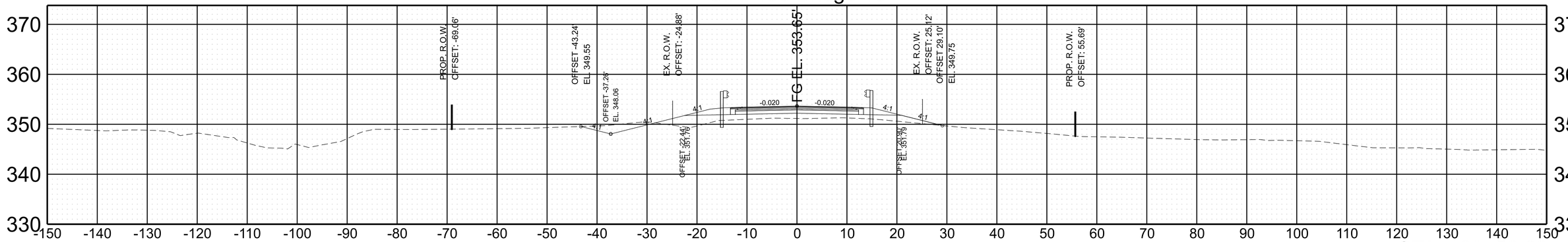
STA. 107+50.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 107+50.00
	1"=10' VERT.	END STA. 108+50.00

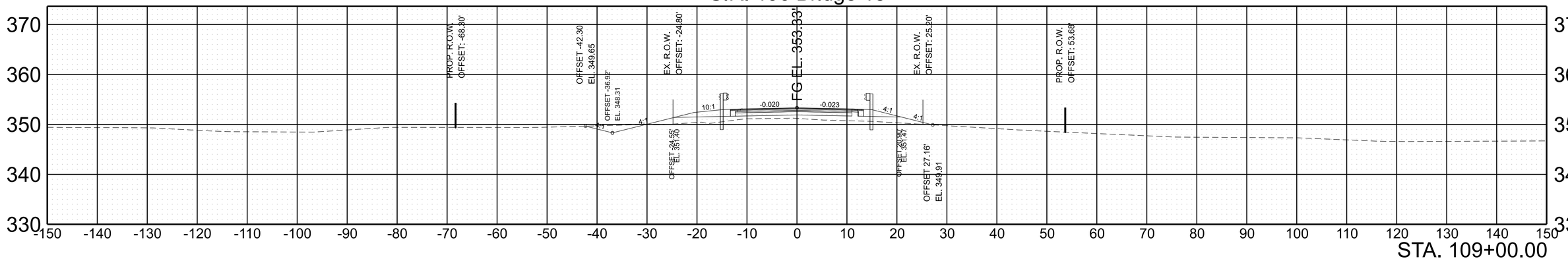
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	17

S.R. 196 Bridge 18



S.R. 196 Bridge 18

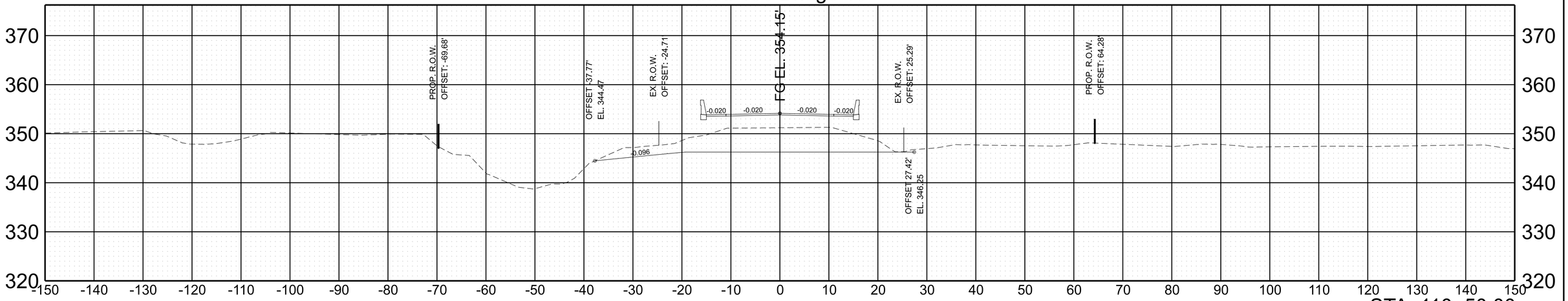


SCALE:	1"=10' HORIZ.	BEGIN STA. 109+00.00
	1"=10' VERT.	END STA. 109+50.00

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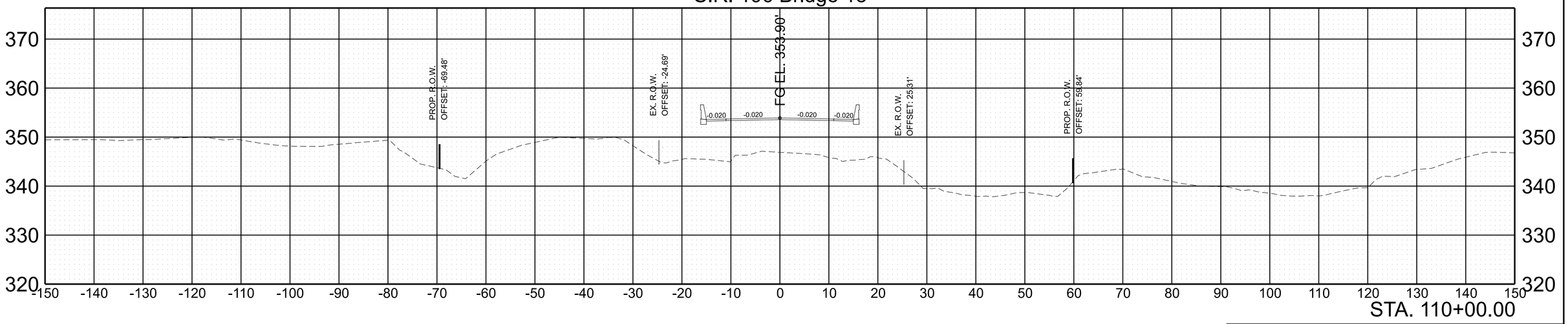
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	18

S.R. 196 Bridge 18



STA. 110+50.00

S.R. 196 Bridge 18



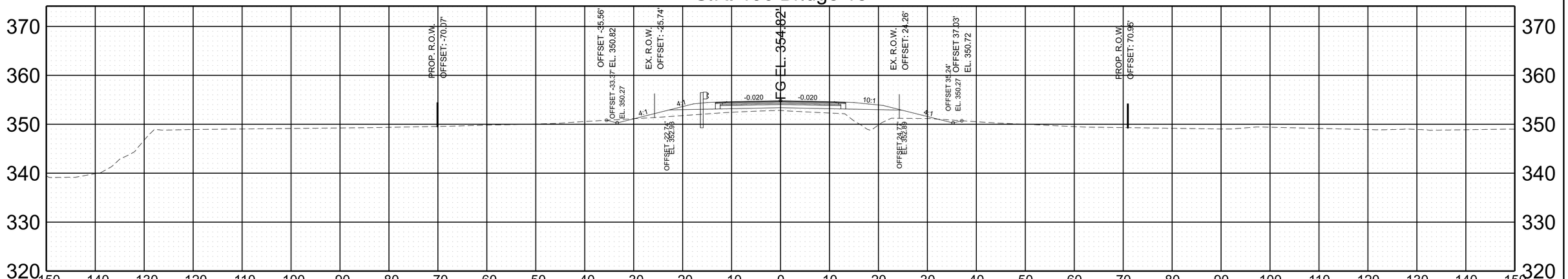
STA. 110+00.00

SCALE:	1"=10' HORIZ.	BEGIN STA. 110+00.00
	1"=10' VERT.	END STA. 110+50.00

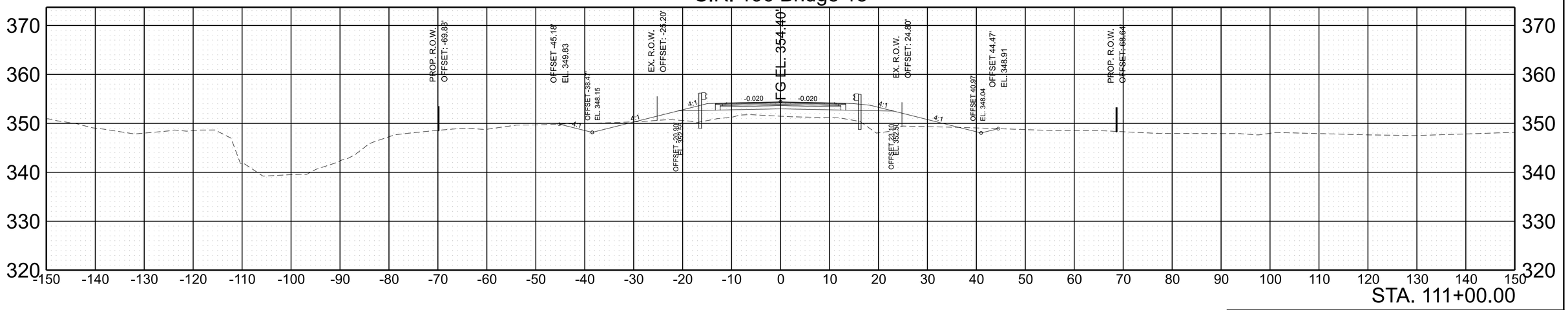
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	19

S.R. 196 Bridge 18



S.R. 196 Bridge 18

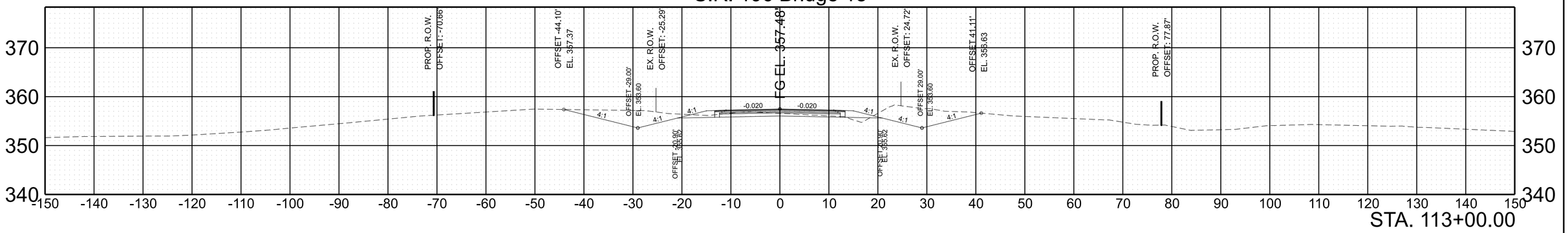


SCALE:	1"=10' HORIZ.	BEGIN STA. 111+00.00
	1"=10' VERT.	END STA. 111+50.00

7/7/2026 10:21:58 AM
C:\BMS\STRUCTUREPOINT-PW-01\WES STANTON\DMS55067\24S196-SHT-XS-SR 196.DGN

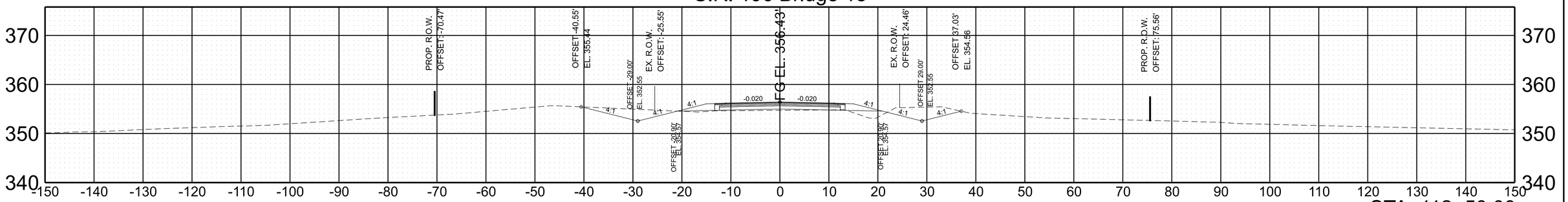
TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	20

S.R. 196 Bridge 18



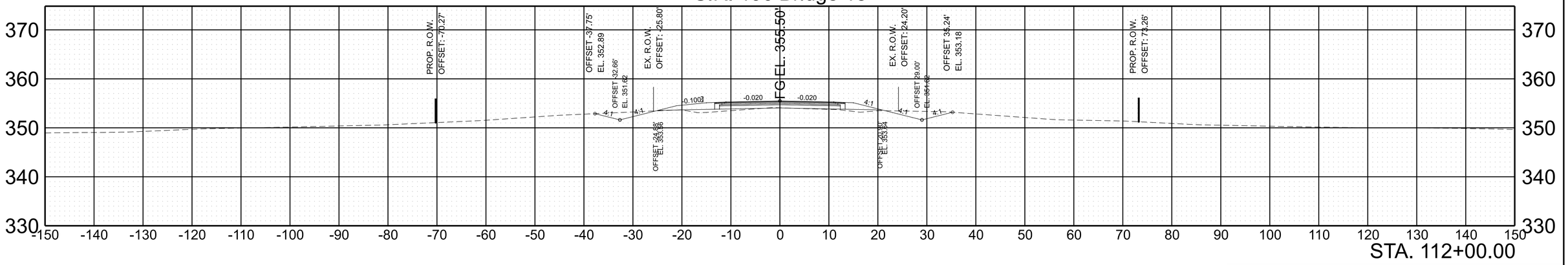
STA. 113+00.00

S.R. 196 Bridge 18



STA. 112+50.00

S.R. 196 Bridge 18

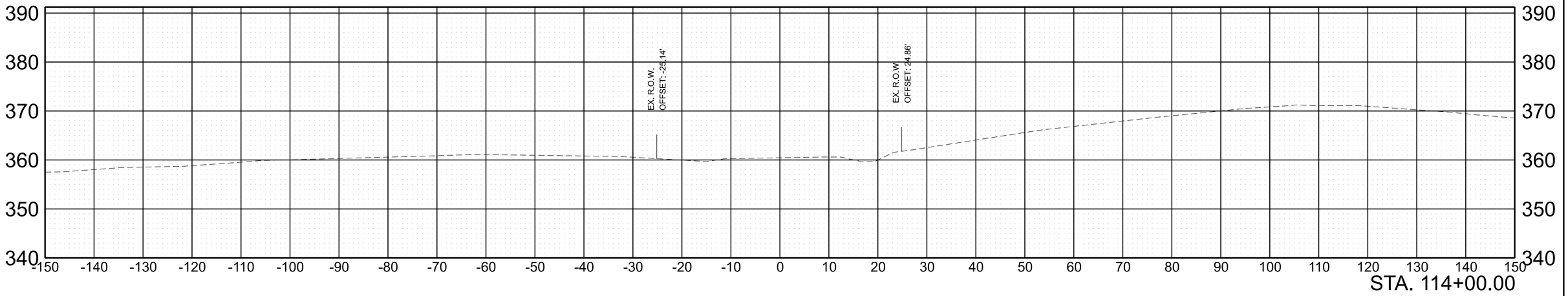


STA. 112+00.00

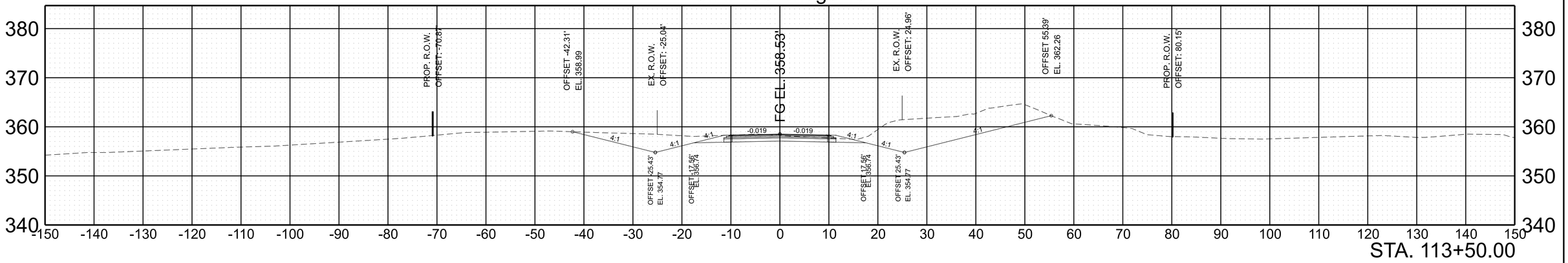
SCALE:	1"=10' HORIZ. 1"=10' VERT.	BEGIN STA. 112+00.00 END STA. 113+00.00

7/7/2026 10:21:59 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
L&G	2026	R4SVAR-S1-058	21



S.R. 196 Bridge 18



SCALE:		
	1"=10' HORIZ.	BEGIN STA. 113+50.00
	1"=10' VERT.	END STA. 114+00.00

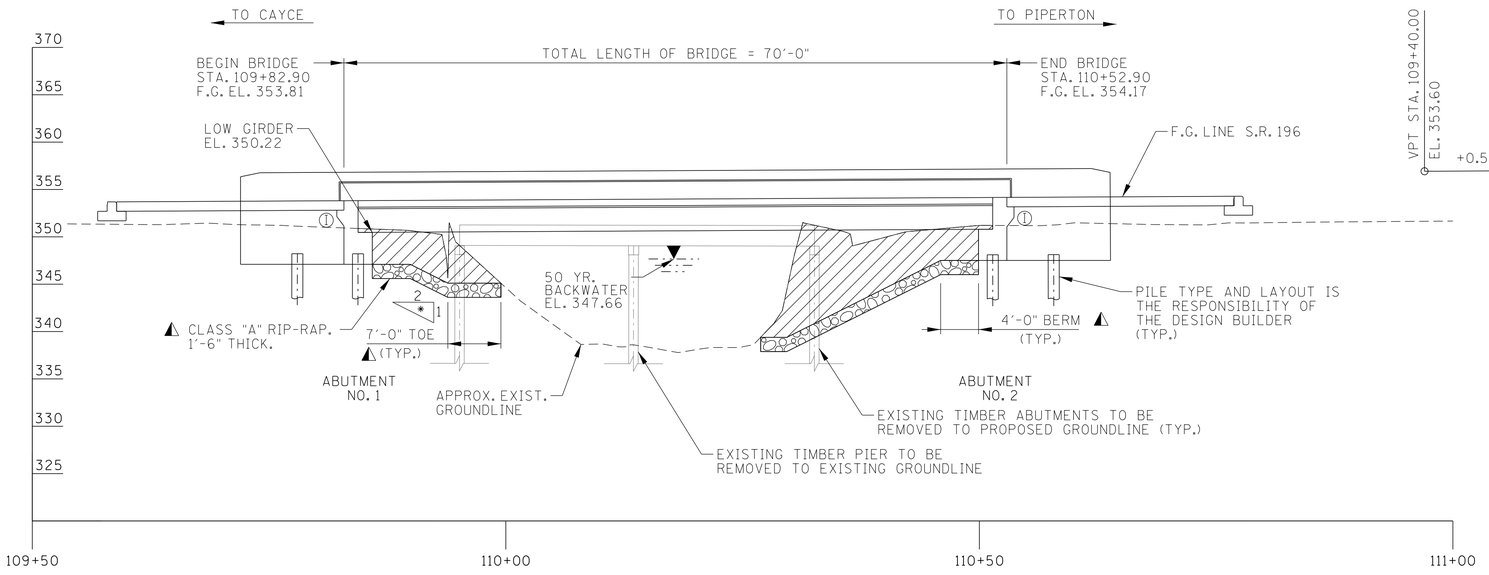
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CONST. NO.: R4SVAR-S1-058

PROJECT NO.	YEAR	SHEET NO.
	2026	1 OF 2

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
	- -		
	- -		
	- -		
	- -		
	- -		



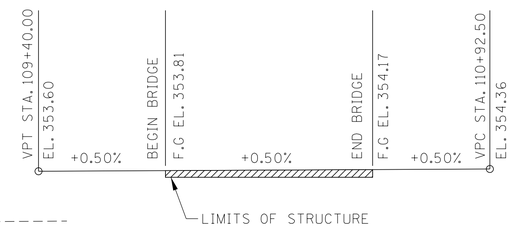
ELEVATION

① DENOTES: INTEGRAL

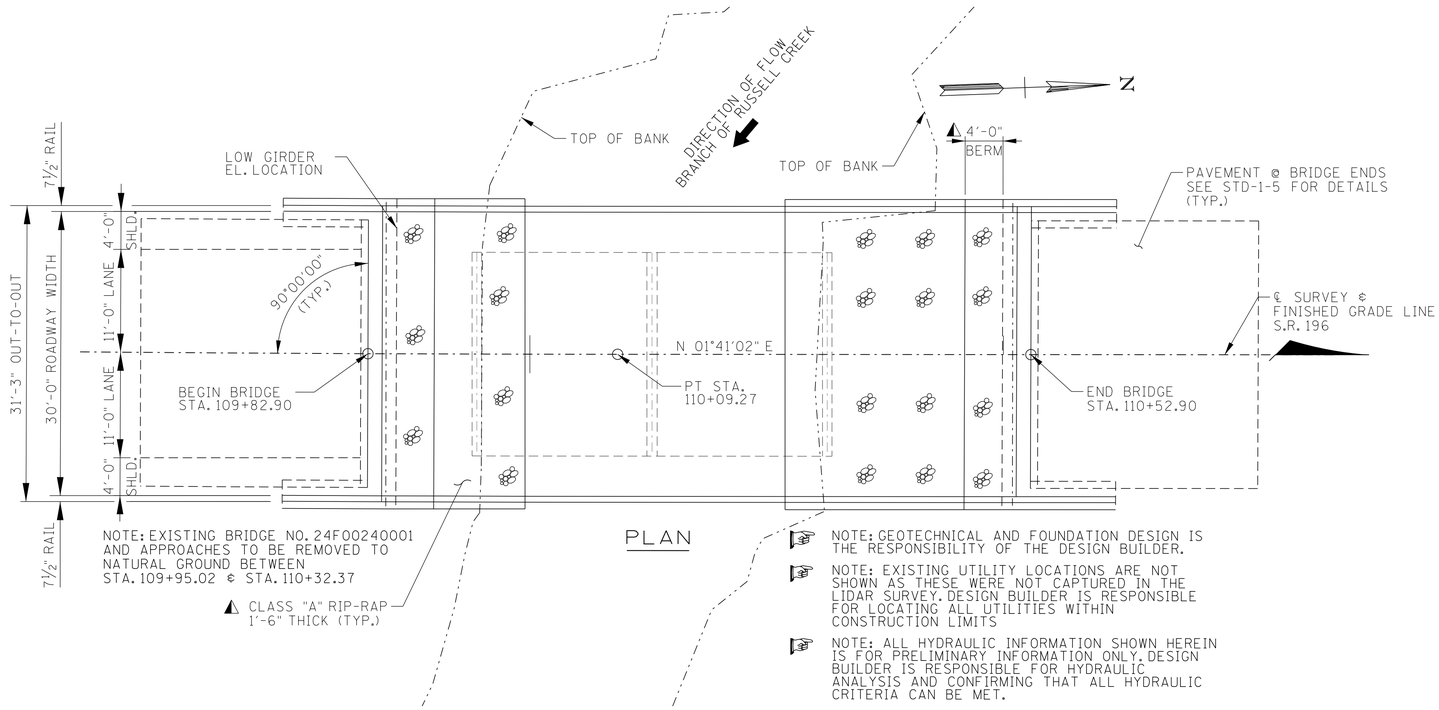
▨ DENOTES: AREA TO BE EXCAVATED AND PAID FOR AS A ROADWAY ITEM

* 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.)



GRADE SKETCH
STATE ROUTE 196



PLAN

NOTE: GEOTECHNICAL AND FOUNDATION DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER.

NOTE: EXISTING UTILITY LOCATIONS ARE NOT SHOWN AS THESE WERE NOT CAPTURED IN THE LIDAR SURVEY. DESIGN BUILDER IS RESPONSIBLE FOR LOCATING ALL UTILITIES WITHIN CONSTRUCTION LIMITS

NOTE: ALL HYDRAULIC INFORMATION SHOWN HEREIN IS FOR PRELIMINARY INFORMATION ONLY. DESIGN BUILDER IS RESPONSIBLE FOR HYDRAULIC ANALYSIS AND CONFIRMING THAT ALL HYDRAULIC CRITERIA CAN BE MET.

CURVE DATA

PI STATION = 109+54.60
N COORDINATE = 268856.8701
E COORDINATE = 885461.7356
Δ = 00°50'07" LT
D = 00°45'50"
R = 7500.00'
L = 109.34'
T = 54.67'
LC = 109.34'
BC = N02°06'07.7"E
SE = N/A
TRANS. LENGTH = N/A
DESIGN SPEED = 50 MPH

HYDRAULIC DATA

DRAINAGE AREA = 0.69 MI²
DESIGN DISCHARGE (50 YR.) = 800 CFS
WATER AREA PROVIDED BELOW EL. 347.66 = 261.64 FT²
50 YR. VELOCITY = 2.94 FPS
50 YR. BRIDGE BACKWATER = -0.18 FT
ROADWAY OVERTOPPING EL. 353.54 FT.
100 YR. DISCHARGE 888 CFS @ EL. 347.87

GENERAL NOTES

1. CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (APRIL 1, 2026 EDITION.)
2. DESIGN SPECIFICATIONS: 10TH EDITION (2024) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.
3. LOADING: HL-93 LIVE LOAD INCREASED BY 10% IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS; SEISMIC CATEGORY "C" WITH AS = 0.320, SDS = 0.692, SD1 = 0.305 (1000 YEAR RETURN PERIOD); DEAD LOADS SHALL INCLUDE 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.
4. SUPERSTRUCTURE: TO CONSIST OF SIMPLY SUPPORTED 30"×36" PRESTRESSED BOX BEAMS WITH COMPOSITE CONCRETE SLAB.
5. CONCRETE: CLASS A F'C=3000, CLASS DS F'C=4000 PSI FOR BRIDGE DECK
6. REINFORCING STEEL: TO BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. EPOXY COAT ALL SLAB STEEL.
7. BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.
8. USE STD-1-1SS PARAPETS.
9. TEXTURE COATING: TO BE GRAY (36440) EXCEPT TRAFFIC FACE AND TOP OF PARAPET TO BE WHITE (37886).
10. EXCAVATION: TO BE BASED ON FINAL PROFILE AT ABUTMENTS.
11. ◭ RIP-RAP: MACHINED RIP-RAP SHALL BE CLASS "A" IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05-06.
12. DESIGN BUILDER TO DETERMINE IF FLUMES AT BRIDGE ENDS ARE REQUIRED.
13. BRIDGE DECK DRAIN DESIGN IS THE RESPONSIBILITY OF THE DESIGN BUILDER.
14. EXISTING BRIDGE DESCRIPTION: 2 SPAN AT 19'-0" (38'-0" TOTAL LENGTH) SIMPLY SUPPORTED CONCRETE CHANNEL BEAM TIMBER BRIDGE WITH A 23'-10" OUT-TO-OUT WIDTH.
15. STREAM CHANNEL: 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).
16. ALL BEAMS SHALL HAVE UPWARD DEFLECTION OF AT LEAST ⅛" UNDER TOTAL DEAD LOAD.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL LAYOUT OF BRIDGE
STATE ROUTE 196
OVER RUSSELL CREEK BRANCH
BRIDGE ID. NO. 24F00240001
LOG MILE 1.35
STATION 110+17.90
FAYETTE COUNTY

PIN NO.: 137109.03
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

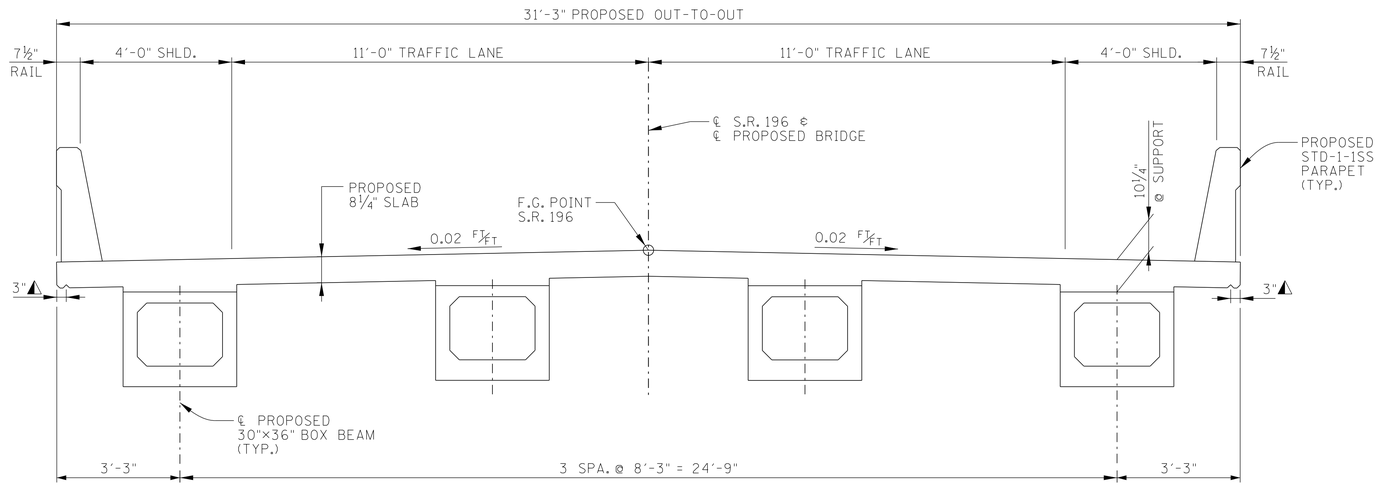
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CONST. NO.: R4SVAR-S1-058

PROJECT NO.	YEAR	SHEET NO.
	2026	2 OF 2

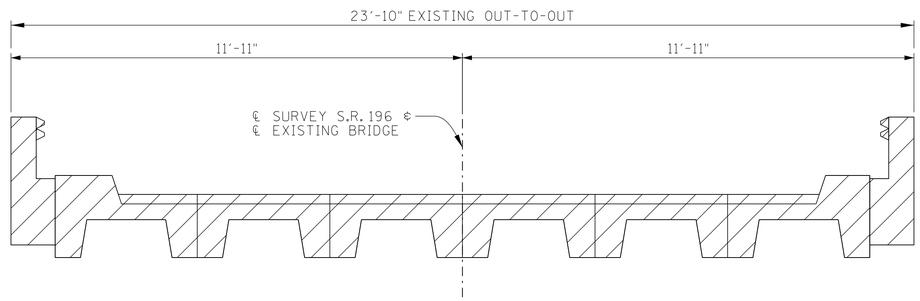
REVISIONS

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

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7/6/2026 10:15:56 AM