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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

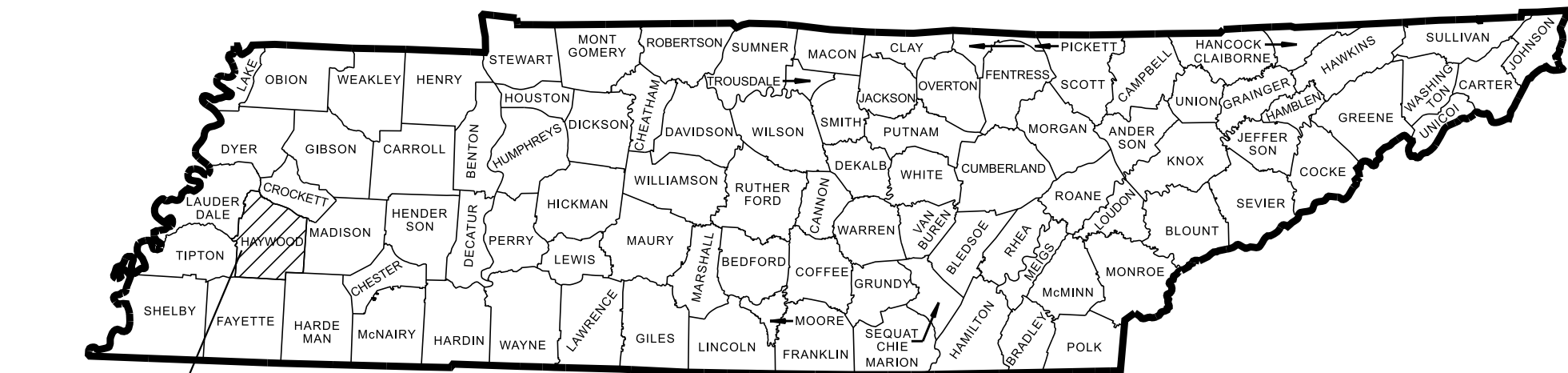
HAYWOOD COUNTY

STATE ROUTE 54
BRIDGE OVER BRANCH OF
LITTLE NIXON CREEK, L.M. 13.92

LINE AND GRADE
BRIDGE REPLACEMENT

STATE HIGHWAY NO. 54

PROJECT LOCATION
BRIDGE ID. # 38SR0540003



END PROJECT NO. 38S054-S1-002 PRELIMINARY

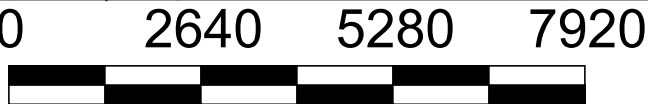
STA. 17+71.00 S.R. 54

BEGIN PROJECT NO. 38S054-S1-002 PRELIMINARY

STA. 11+50.00 S.R. 54



SCALE: 1"= 1/2 MILE



R.O.W. LENGTH	0.123 MILES
ROADWAY LENGTH	0.107 MILES
BRIDGE LENGTH	0.011 MILES
PROJECT LENGTH	0.118 MILES

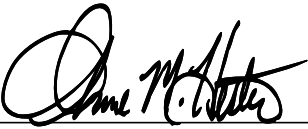
NO EXCLUSIONS

ROAD TO BE CLOSED
DURING CONSTRUCTION

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

LINE
AND
GRADE

SEALED BY

APPROVED: 
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED: 
WILL REID, COMMISSIONER

SPECIAL NOTES

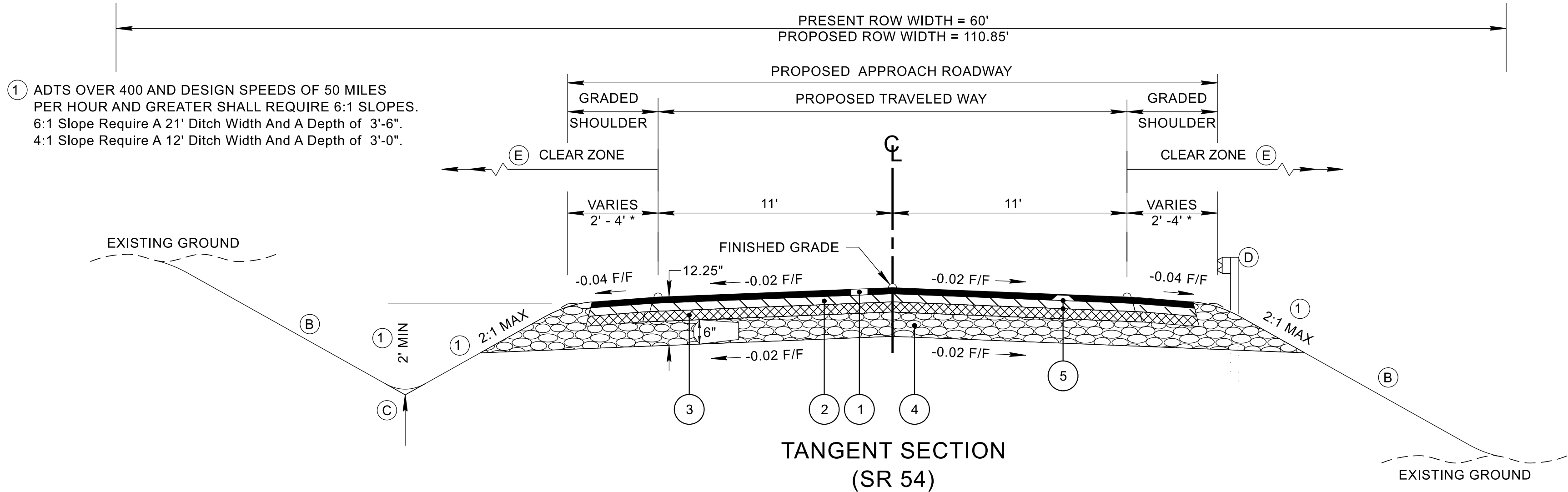
PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2026 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

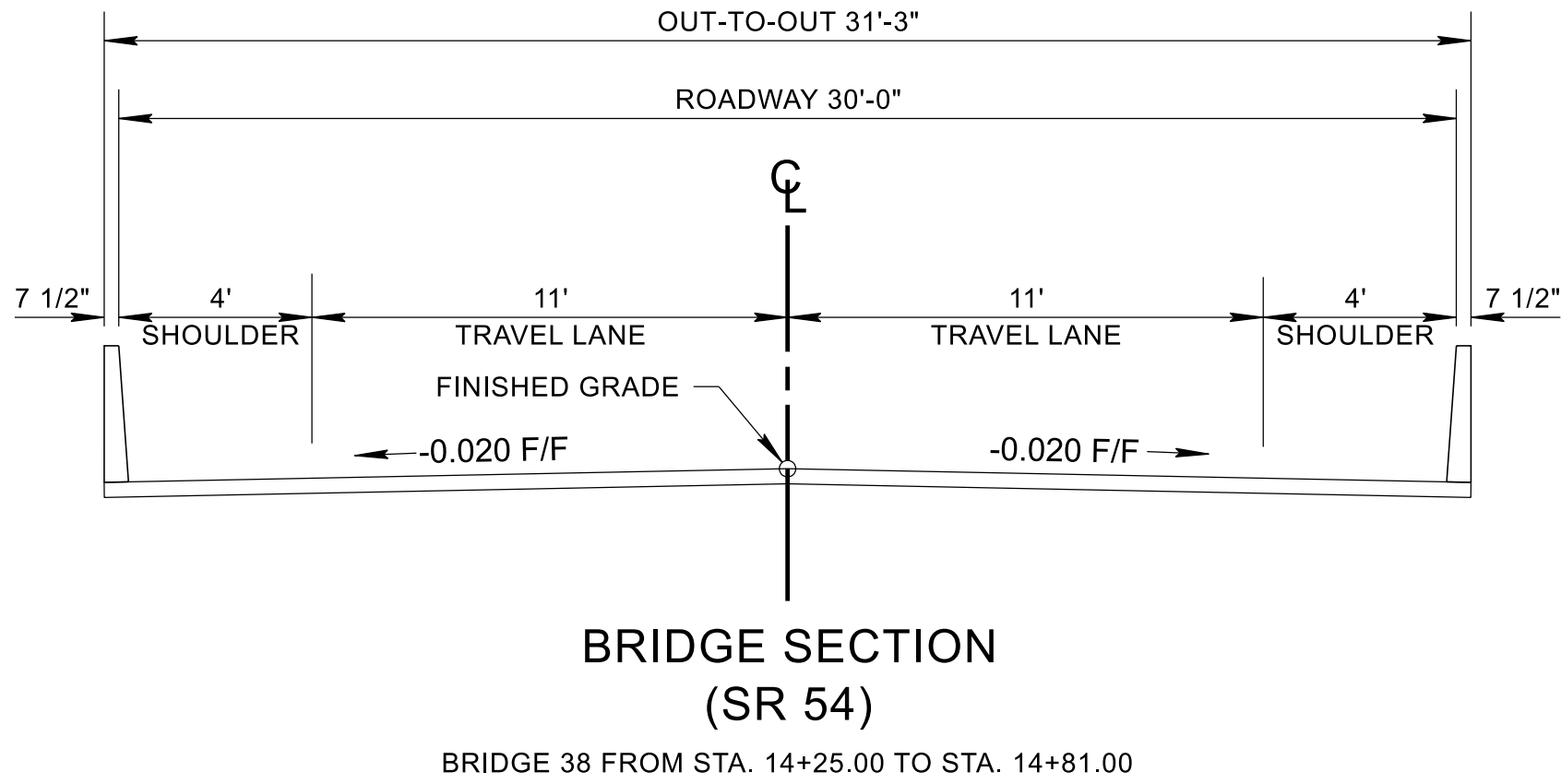
TDOT PROJECT MANAGER: DEREK LINK
DESIGN FIRM : AMERICAN STRUCTUREPOINT INC.
DESIGNER : Dennis Naillon, PE CHECKED BY Gabe Liptak, PE
P.E. NO. R4SVAR-S1-058
PIN NO. 137109.10

SURVEY - -	TRAFFIC DATA
TN STAT LIDAR UTILIZED	ADT (2029) 1,750
WITH SUPPLEMENTAL	ADT (2049) 2,800
SURVEY FOR EXISTING	DHV (2049) 280
STREAM AND BRIDGE ONLY	D -
	T (ADT) 6.00 %
	T (DHV) 6.00 %
	V 50 MPH

TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	2B



- (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.
- * PAVED SHLDR. WIDTH TRANSITIONS FROM 2' TO 4' STA. 11+50.00 TO 12+50.00
PAVED SHLDR. WIDTH TRANSITIONS FROM 4' TO 2' STA. 16+71.00 TO 17+71.00



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 (TO) 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"		

CAUTION!
LINE AND GRADE PLANS
FOR REFERENCE
ONLY
SUBJECT TO
CHANGE

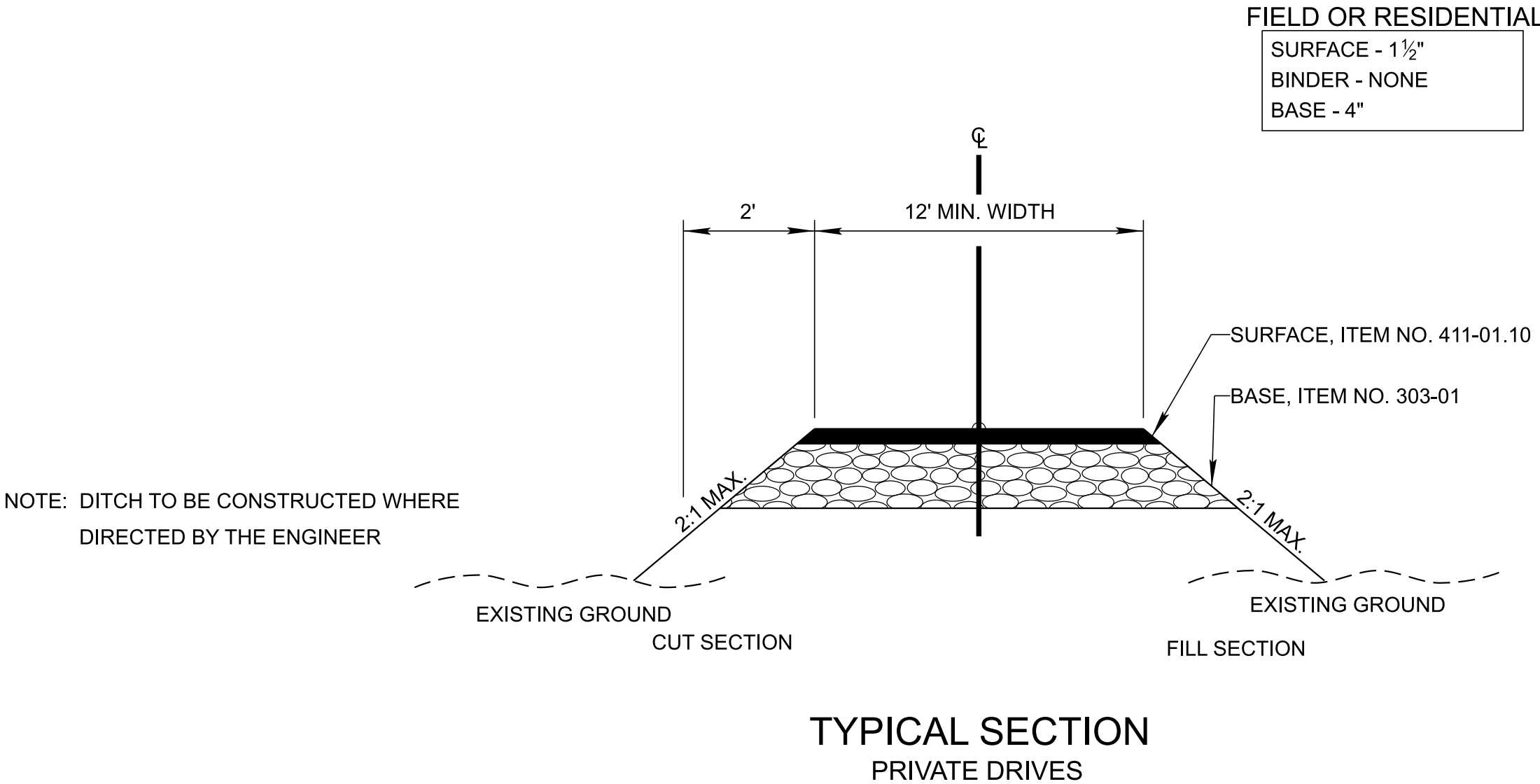
SEALED BY

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTION

TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	2B1



- (A) WHERE SURFACE OF EXISTING SURFACE DRIVE IS CONCRETE, SUBSTITUTE 6" CONCRETE.
- (B) IF ANY EXISTING DRIVE IS GREATER THAN 12'. THE WIDTH OF THE PROPOSED DRIVE SHALL BE EQUAL TO THE EXISTING WIDTH BUT NOT GREATER THAN THE MAXIMUM ALLOWED AS SPECIFIED IN THE RULES AND REGULATIONS.

CAUTION!
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TN STATE LIDAR UTILIZED
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BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTION

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

CABLE:

AT&T
315 EAST COLLEGE STREET
JACKSON, TN 38301
CONTACT: DANIEL R. POTTS
OFFICE PHONE: (901) 488-2359
EMAIL: DP7607@ATT.COM

UTILITY:

STEMC
1009 EAST MAIN STREET
BROWNSVILLE, TN 38012
CONTACT: JOSHUA KENNEDY
OFFICE PHONE: (731) 585-0531
EMAIL: JKENNEDY@STEMC.COM

UTILITY:

BROWNSVILLE ENERGY AUTHORITY
P.O. BOX 424
BROWNSVILLE, TN 38012
CONTACT: RUSS STOOTS
OFFICE PHONE: (731) 772-8845
EMAIL: RSTOOTSB@BUDUTIL.COM

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

REV. ***DATE***
TEXT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	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	WILLARD COLLINS	066	028.00	172	640		1.520	1.520		542 S.F.	542 S.F.		1.508					
2	WILLIAM B. BROOKS AND EDNA MAE CARNEY	066L-G	001.00	55	565	0.290		0.290				0.290						
3	LAZELL BEARD AND LUE VINNER BEARD	066	025.00	180	368	3.110		3.110				3.110						
4	LAZELL BEARD AND LUE VINNER BEARD	066	026.00	180	368	0.280		0.280	1215 S.F.		1215 S.F.	0.252						
5	TRUSTEES OF SNIPES GROVE BAPTIST CHURCH	066	030.03	42	875		0.770	0.770		4354 S.F.	4354 S.F.		0.670			1181 S.F.		
6	DAVID R. BLURTON	066	027.00	188	145	1.190		1.190	0.196		0.196	0.994				524 S.F.		
7	THE TRUSTEES OF HOPE OF GLORY CHURCH	066	030.02	189	868		0.730	0.730		2949 S.F.	2949 S.F.		0.662			877 S.F.		
8	MAXIMINO GASPAR VIEL	066	030.01	143	224		0.680	0.680		2170 S.F.	2170 S.F.		0.630			529 S.F.		
9	JAMES THOMAS HUGHES AND MARTHA JEAN GAY, CO-TRUSTEES	066	006.00	186	308	99.620		99.620	0.206		0.206	99.414						
10	RICHARD M. JAMESON AND JANE K. JAMESON	066	003.02	259	620		163.860	163.860		4319 S.F.	4319 S.F.		163.761					
ACQUISITION TOTALS (ACRES)									0.759							3111 S.F.		

DISTURBED AREA	
IN BETWEEN SLOPE LINES	0.965 (AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.687 (AC)
TOTAL DISTURBED AREA	1.652 (AC)
TOTAL PROJECT AREA	1.725 (AC)

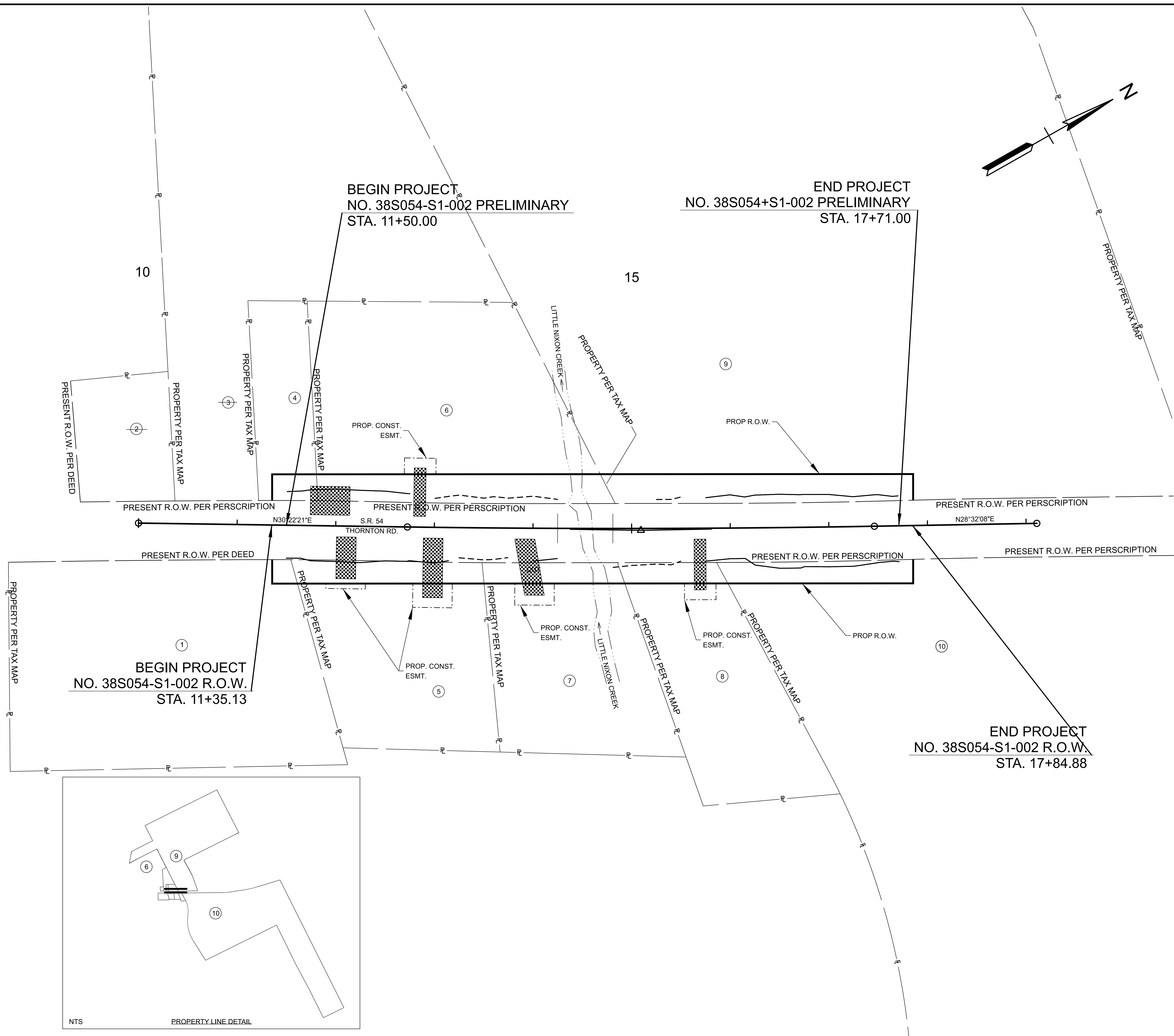
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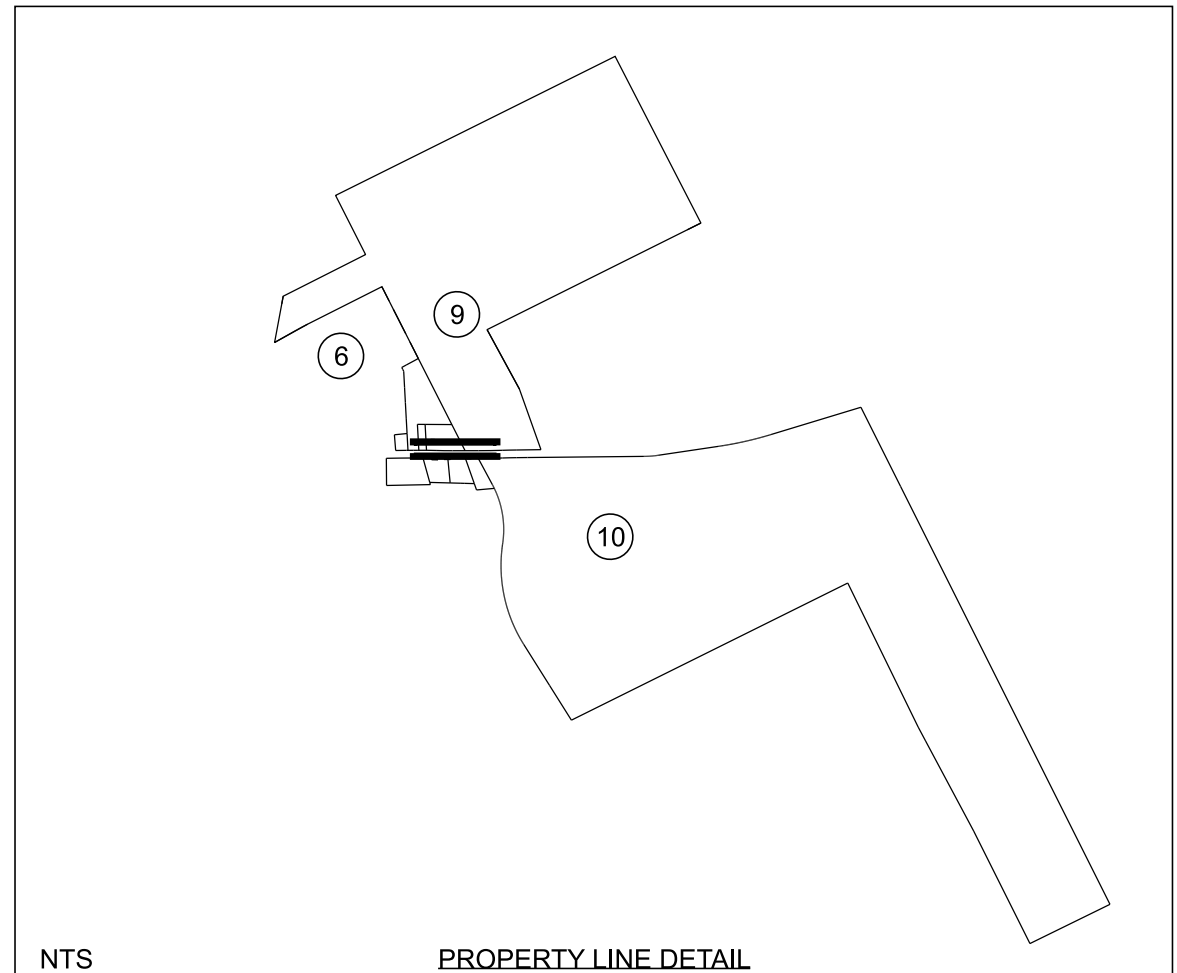
RIGHT-OF-WAY
ACQUISITION
TABLE

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2026	38S054-S1-002	3B



BEGIN PROJECT
NO. 38S054-S1-002 R.O.W.
STA. 11+35.13

END PROJECT
NO. 38S054-S1-002 R.O.W.
STA. 17+84.88



CAUTION!
LINE AND GRADE PLANS
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CHANGE

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

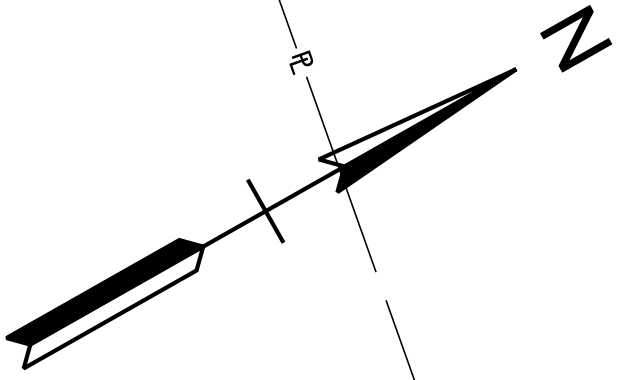
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY
MAP

STA. 10+00.00 TO STA. 20+50.00
SCALE: 1" = 50'

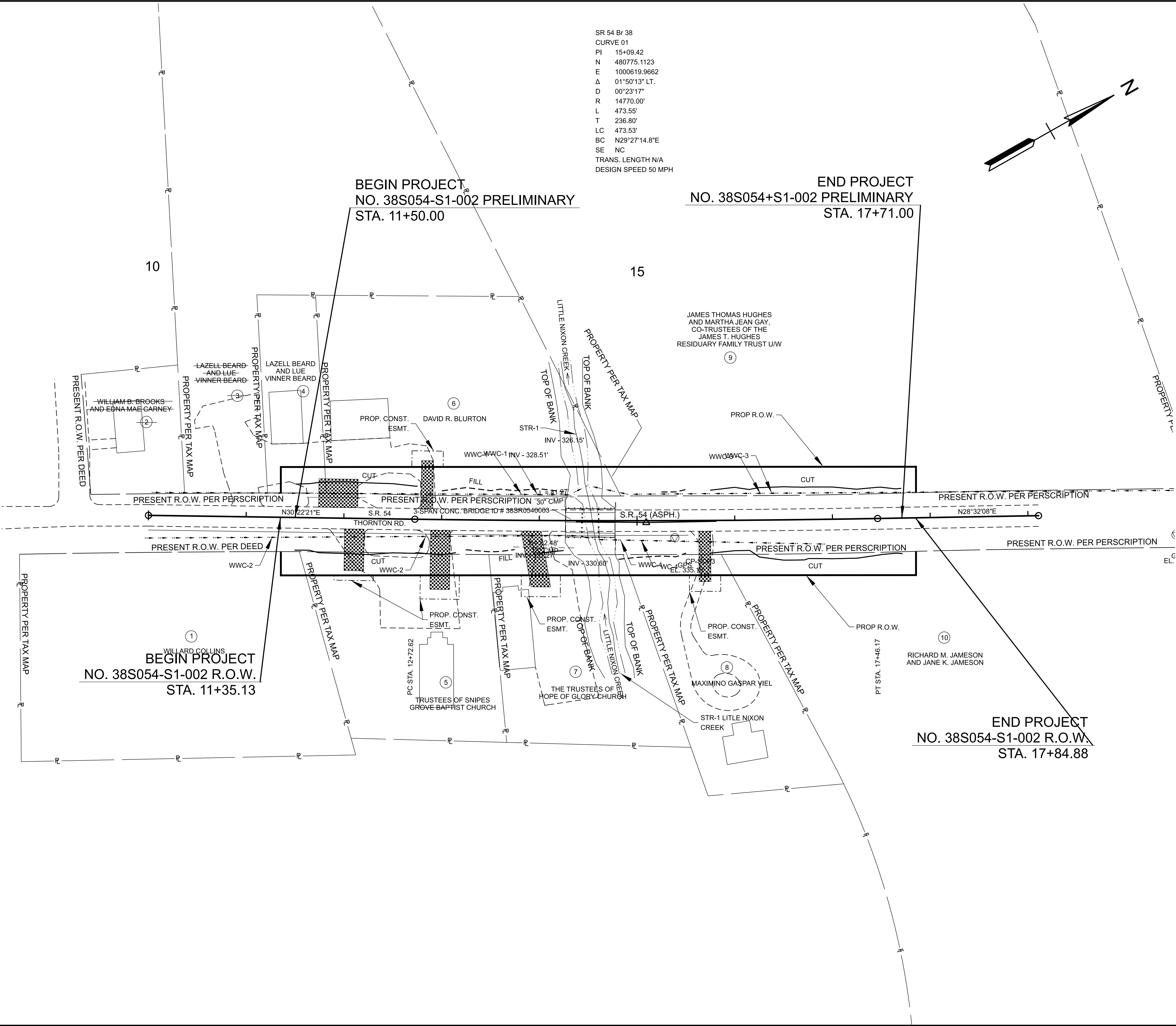
TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	4

SR 54 Br 38
CURVE 01
PI 15+09.42
N 480775.1123
E 1000619.9662
Δ 01°50'13" LT.
D 00°23'17"
R 14770.00'
L 473.55'
T 236.80'
LC 473.53'
BC N29°27'14.8"E
SE NC
TRANS. LENGTH N/A
DESIGN SPEED 50 MPH



BEGIN PROJECT
NO. 38S054-S1-002 PRELIMINARY
STA. 11+50.00

END PROJECT
NO. 38S054+S1-002 PRELIMINARY
STA. 17+71.00



CAUTION!
LINE AND GRADE PLANS
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SEALED BY

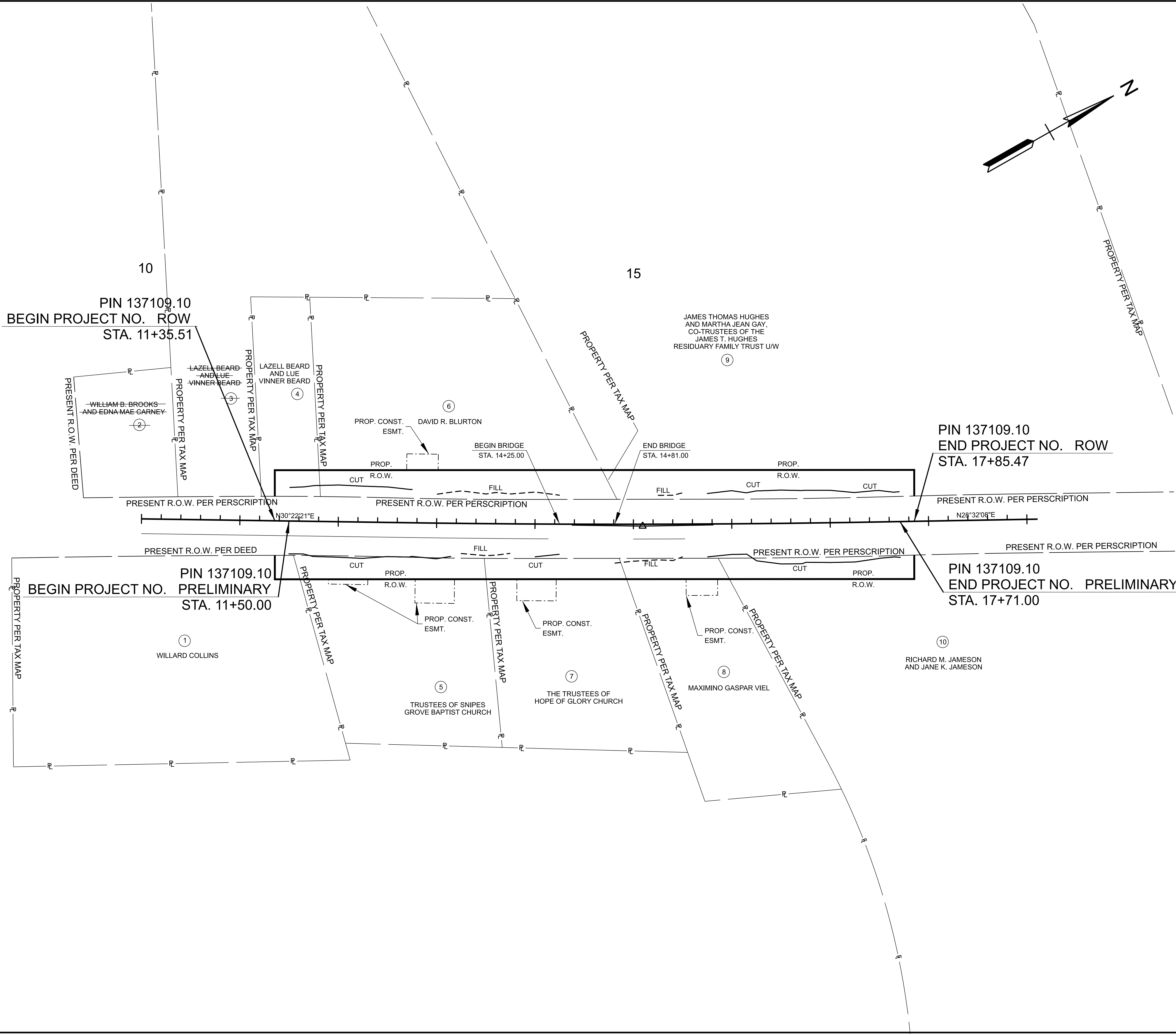
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

STA. 10+00.00 TO STA. 20+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	4A



CAUTION!
LINE AND GRADE PLANS
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SEALED BY

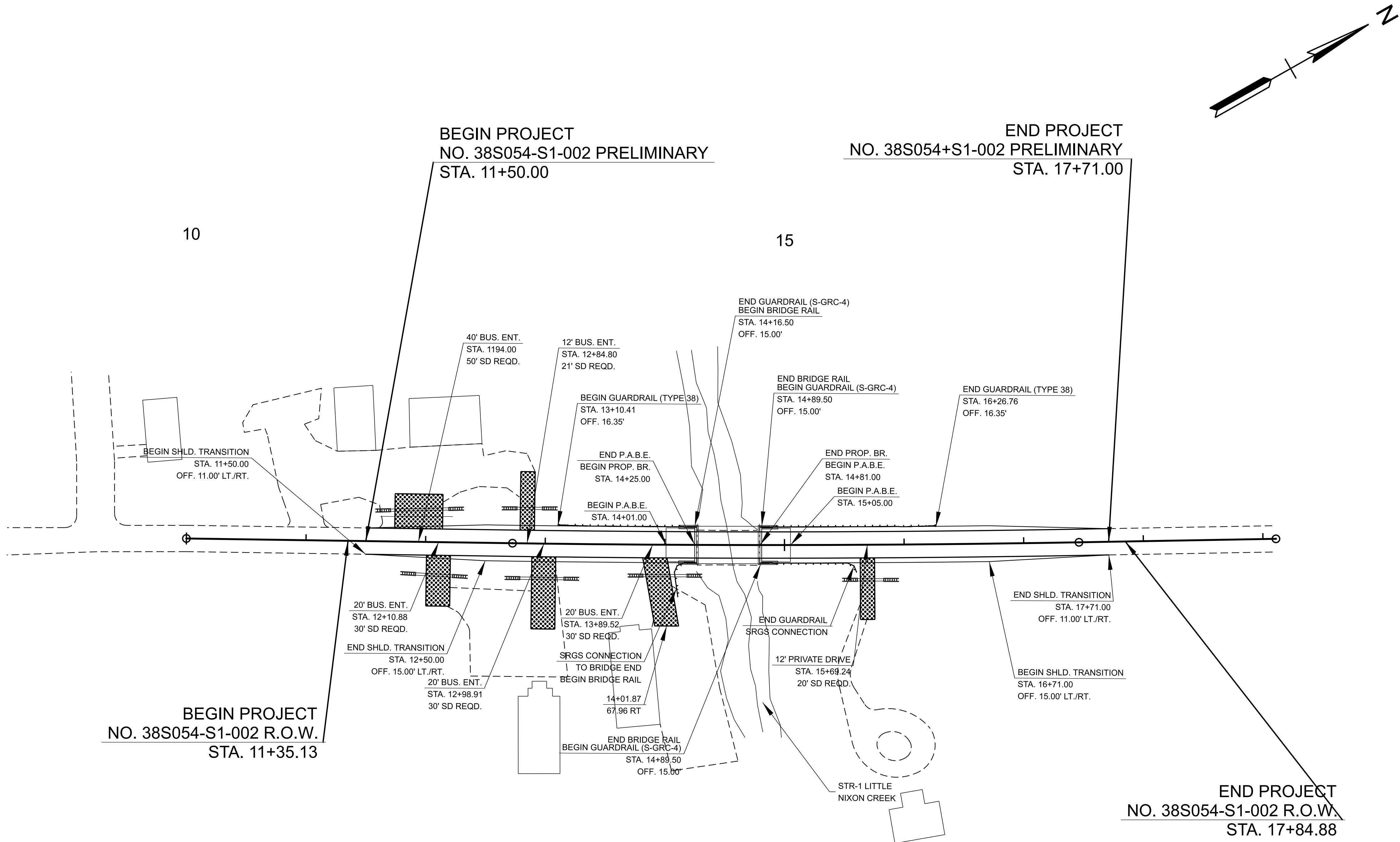
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY
DETAILS

STA. 10+00.00 TO STA. 20+50.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNC.	2026	38S054-S1-002	4B



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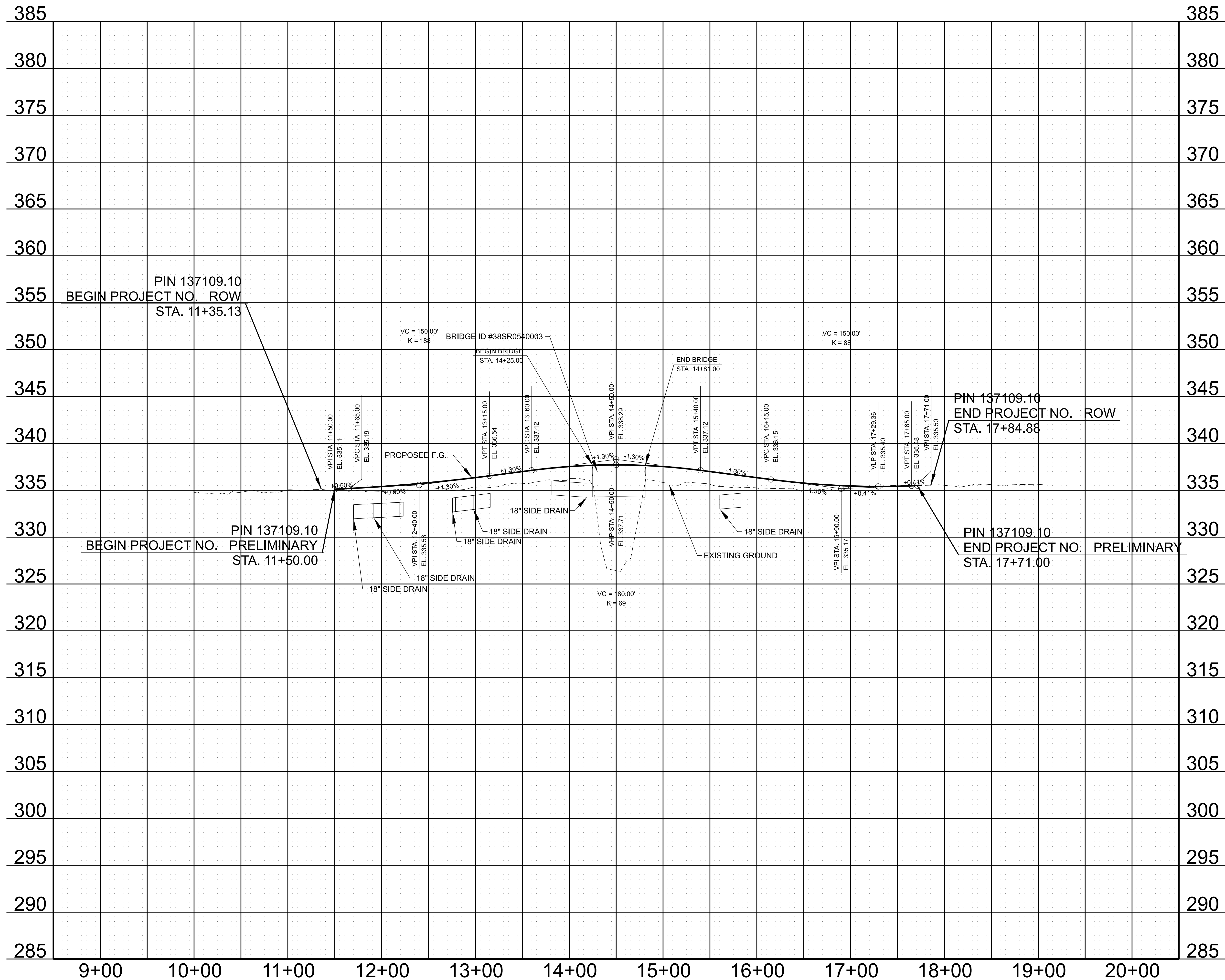
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TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA. 10+00.00 TO STA. 20+50.00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	4C

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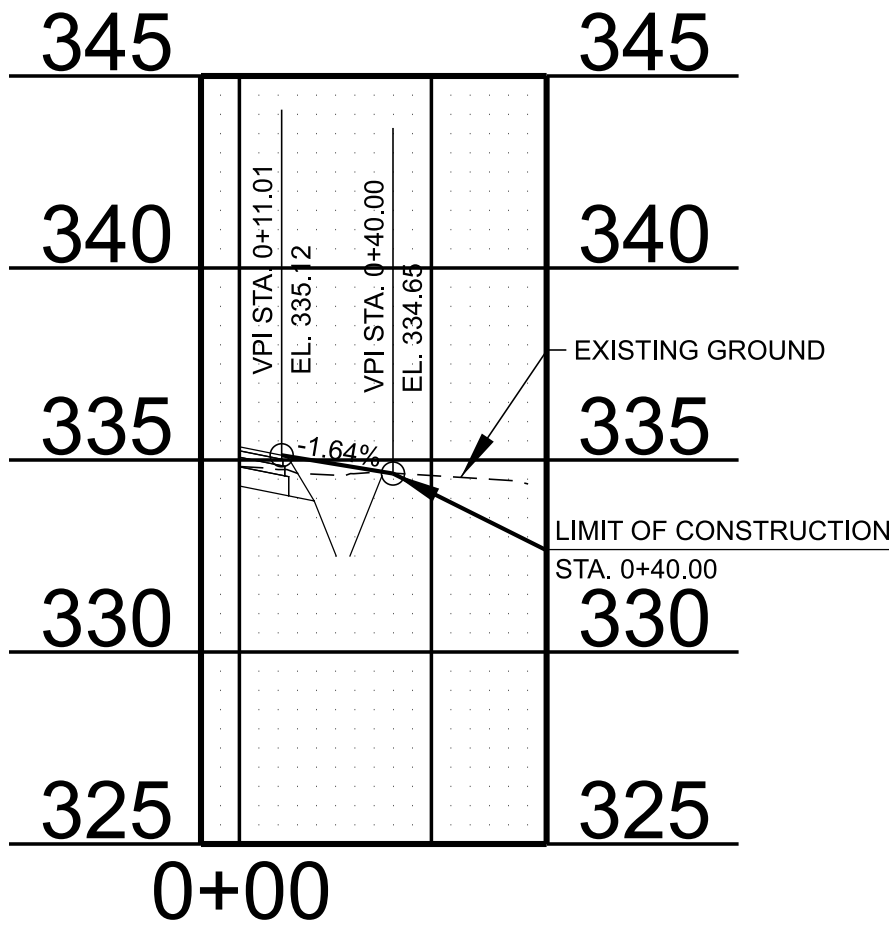
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
PROFILE

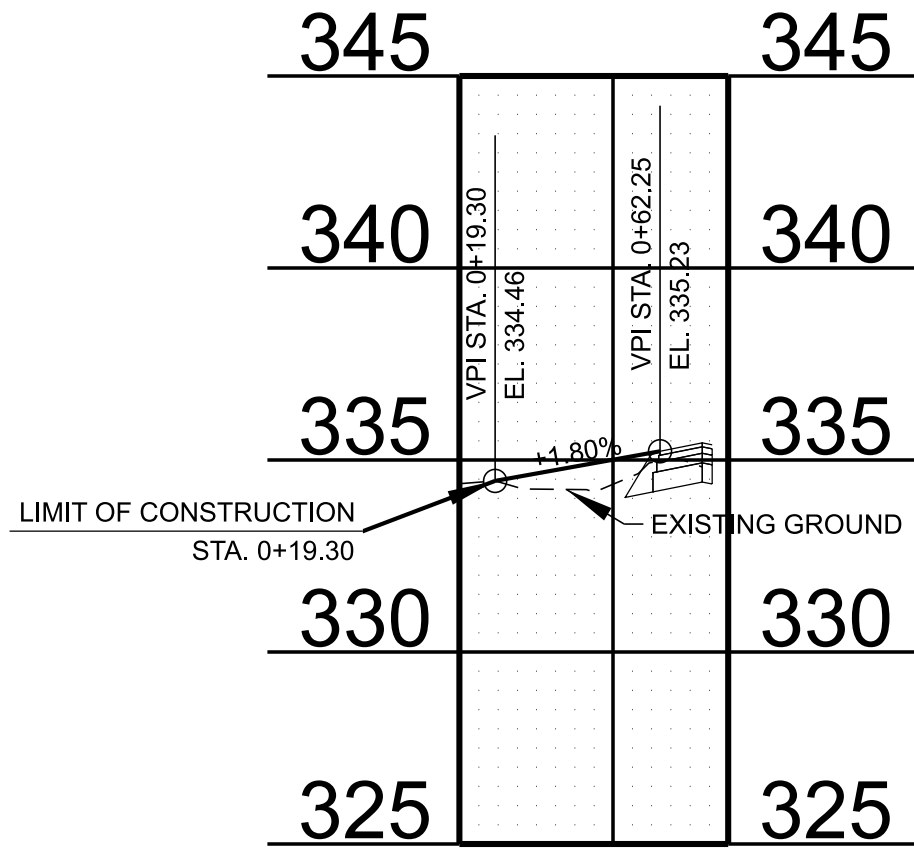
STA. 8+50.00 TO STA. 20+50.00

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

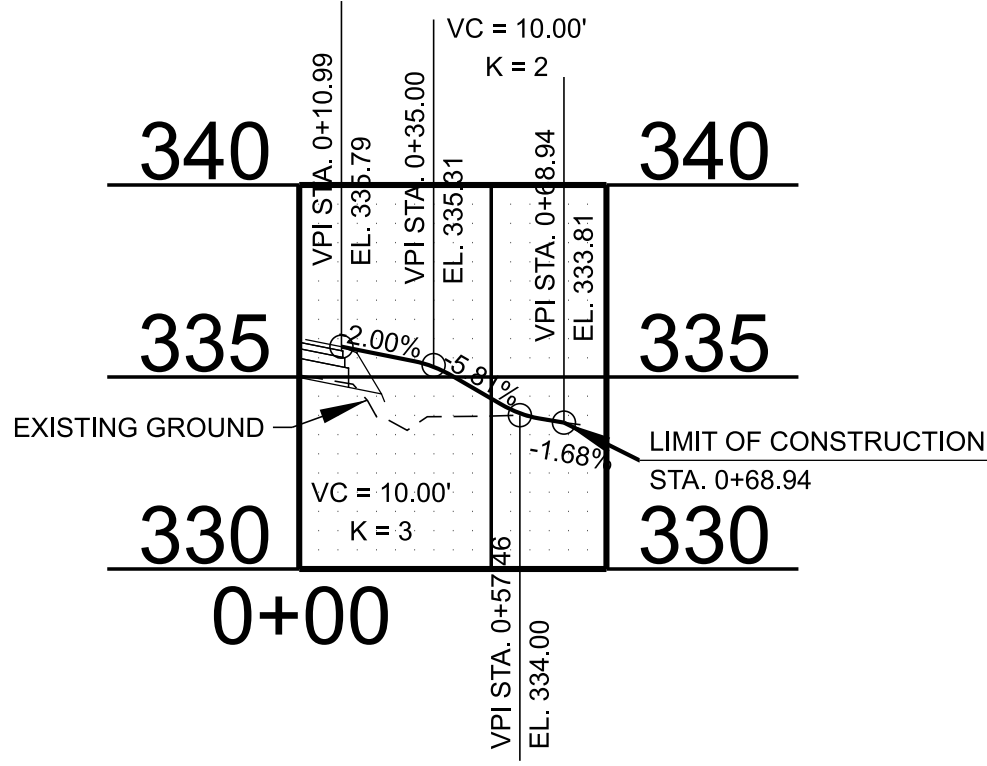
TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	4C



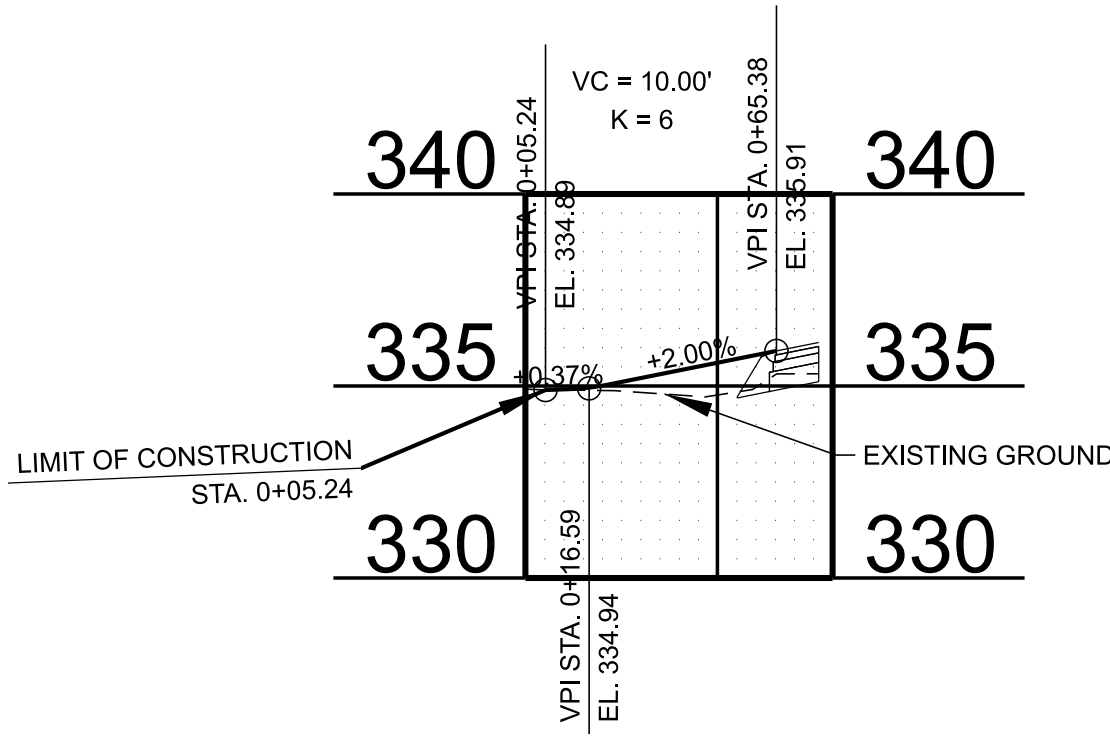
40' BUSINESS DRIVE
STA. 11+94.00 LT
50' SD REQD
TRACTS 3 & 4



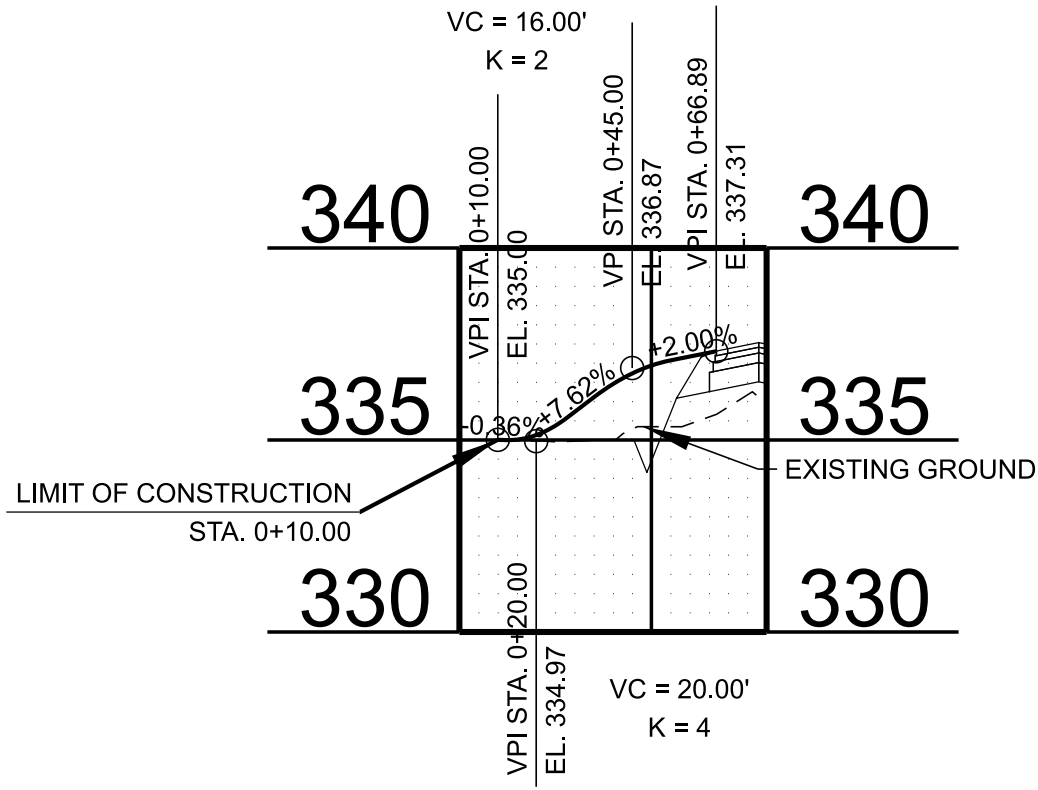
20' BUSINESS DRIVE
STA. 12+10.88 RT
30' SD REQD



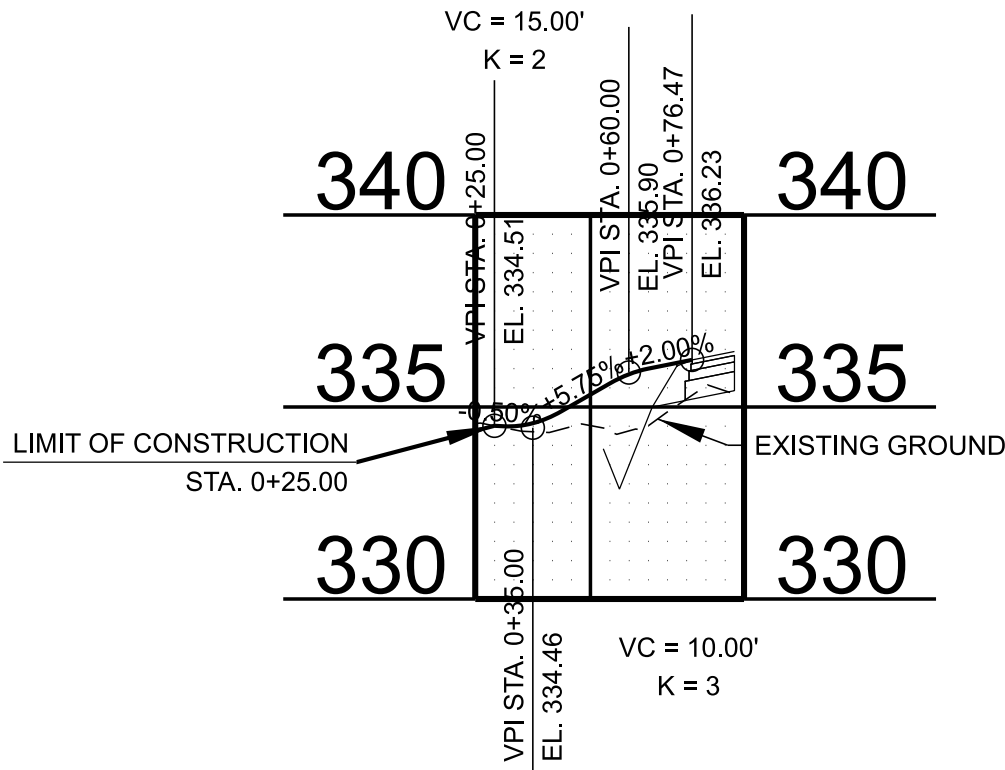
12' BUSINESS DRIVE
STA. 12+84.12 LT
20' SD REQD
TRACT 6



20' BUSINESS DRIVE
STA. 12+98.80 RT
30' SD REQD



20' BUSINESS DRIVE
STA. 14+01.89 RT
30' SD REQD



12' PRIVATE DRIVE
STA. 15+69.24 RT
20' SD REQD

CAUTION!
LINE AND GRADE PLANS
FOR REFERENCE
ONLY
SUBJECT TO
CHANGE

SEALED BY

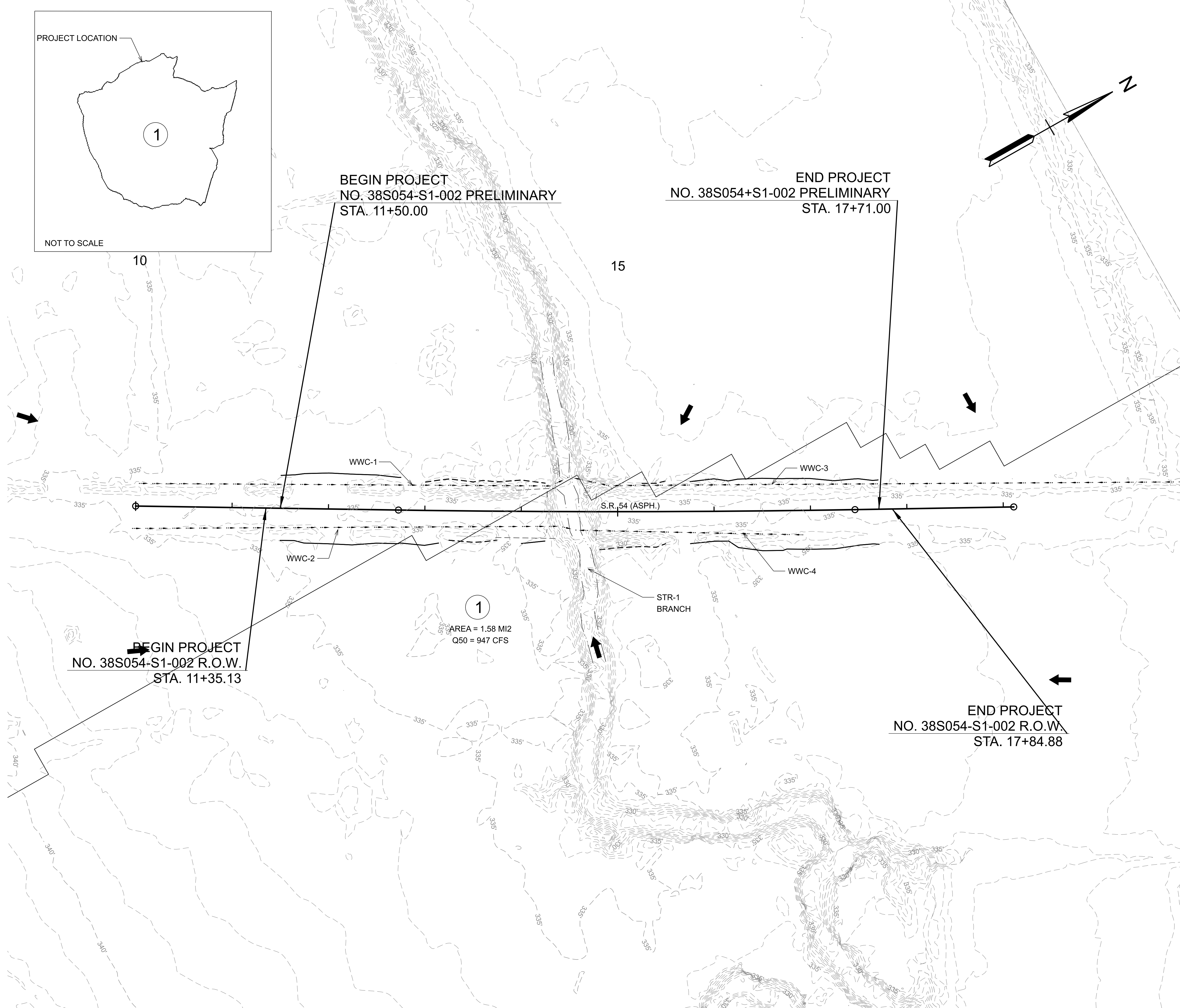
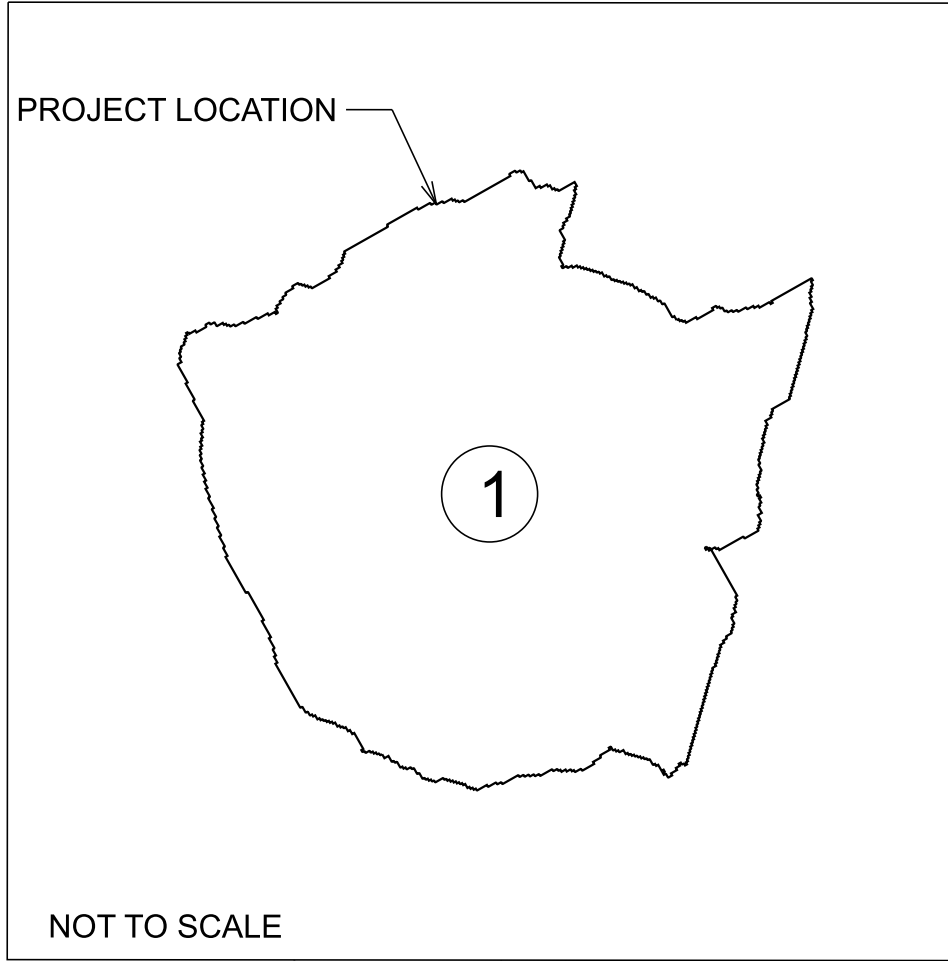
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
PROFILE

STA. 8+50.00 TO STA. 20+50.00

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	6

CAUTION!
LINE AND GRADE PLANS
FOR REFERENCE
ONLY
SUBJECT TO
CHANGE

SEALED BY

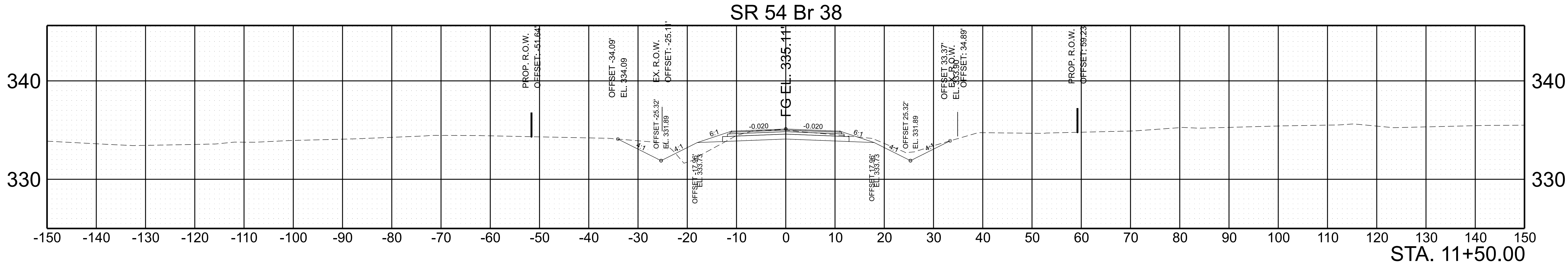
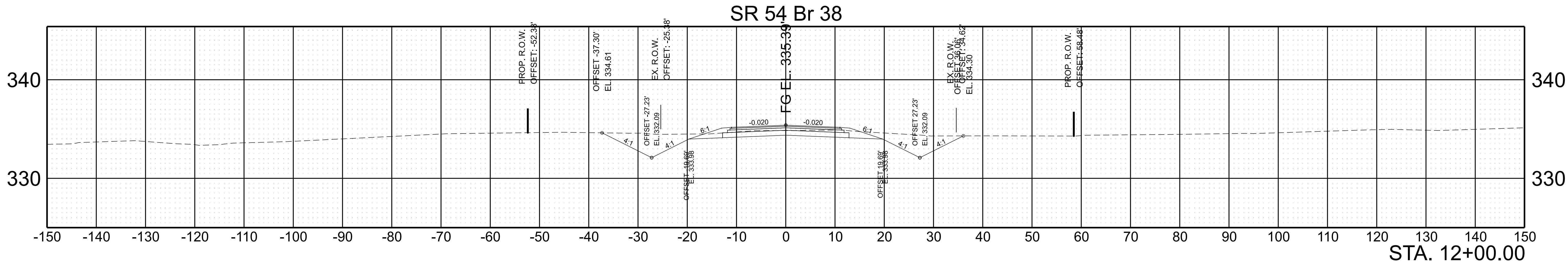
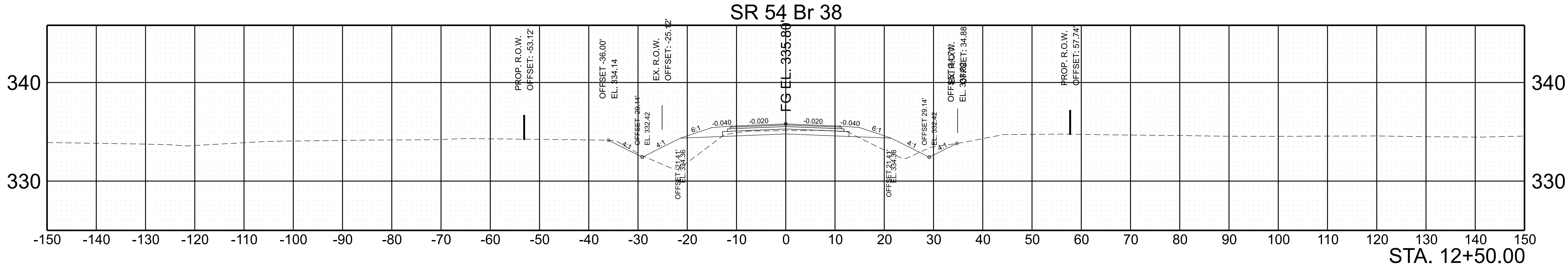
TN STATE LIDAR UTILIZED
WITH SUPPLEMENTAL SURVEY
FOR EXISTING STREAM AND
BRIDGE ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE
MAP

STA. 8+75.00 TO STA. 20+75.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	7

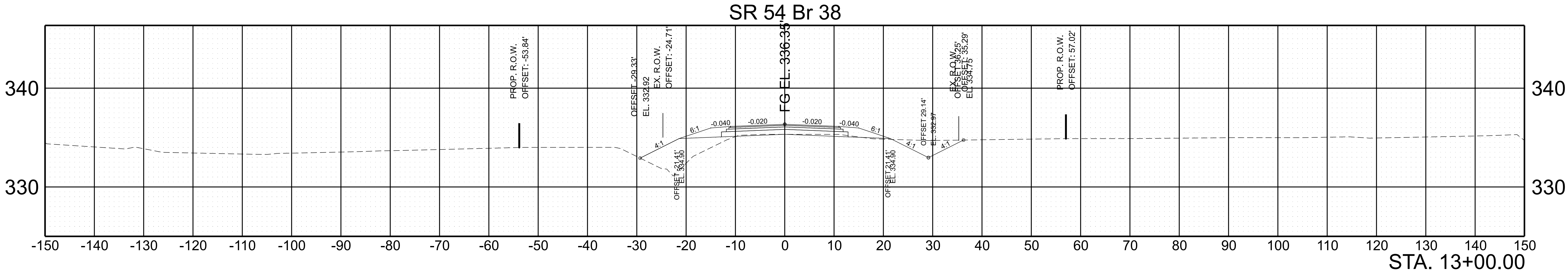
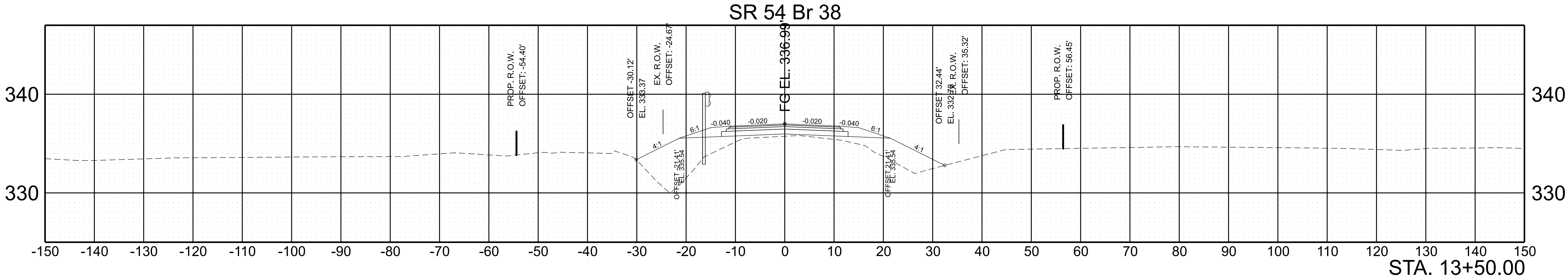
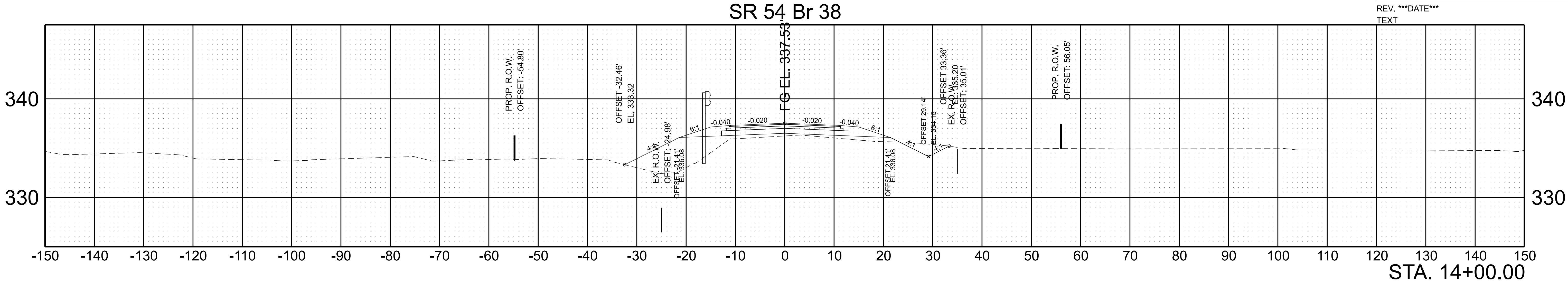


SCALE: 1"=10' HORIZ. 1"=5' VERT.	BEGIN STA. 11+50.00 END STA. 12+50.00
-------------------------------------	--

7/8/2026 4:40:33 PM C:\BMS\STRUCTUREPOINT-PW\01DENNIS NALLON\MS6490\38S054-SHT-XS SR54-BRIDGE 38.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	8

REV. ***DATE***
TEXT

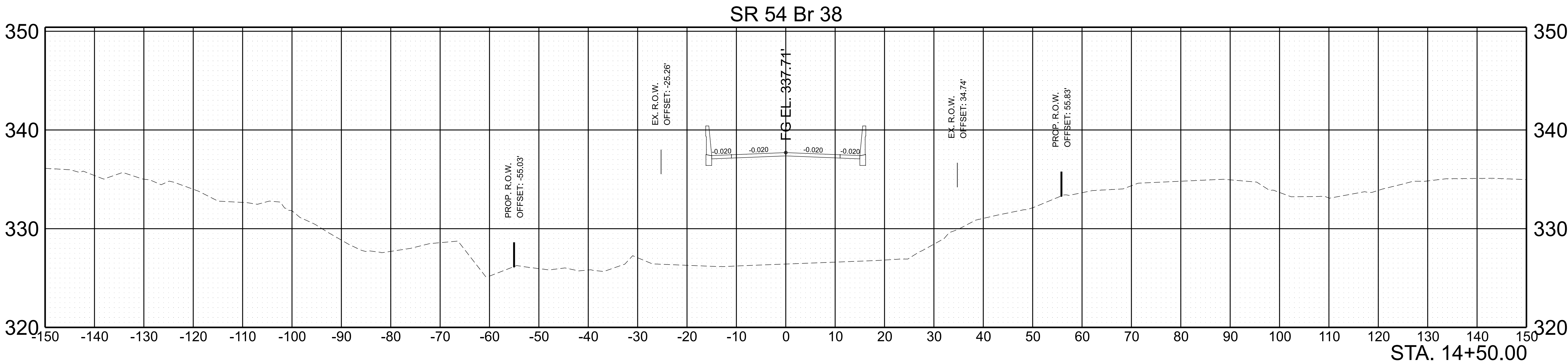
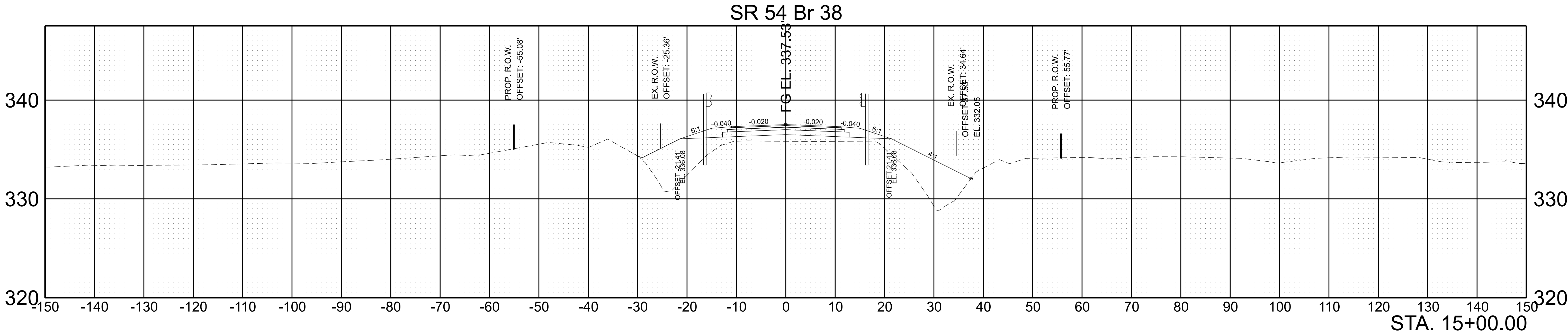


SCALE: 1"=10' HORIZ.
1"=5' VERT.

BEGIN STA. 13+00.00
END STA. 14+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	9

REV. ***DATE***
TEXT



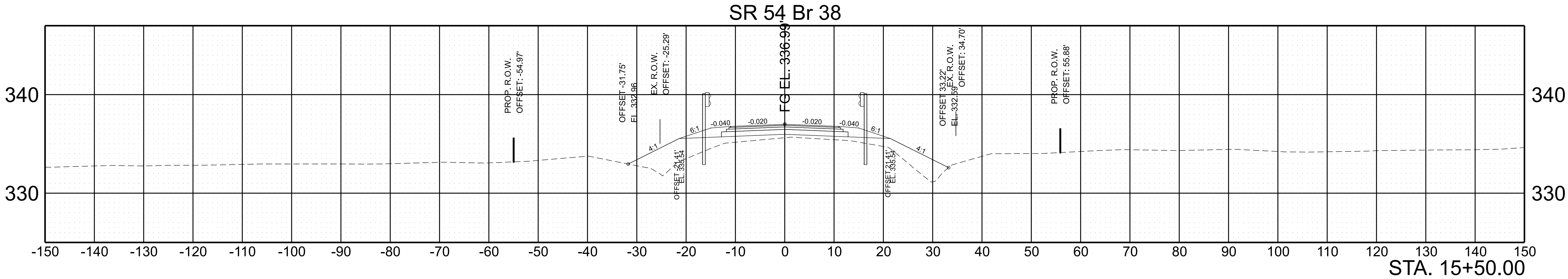
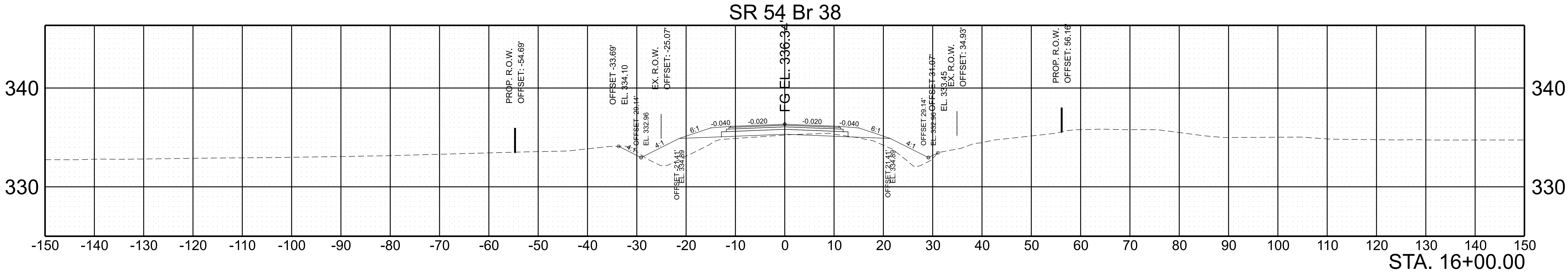
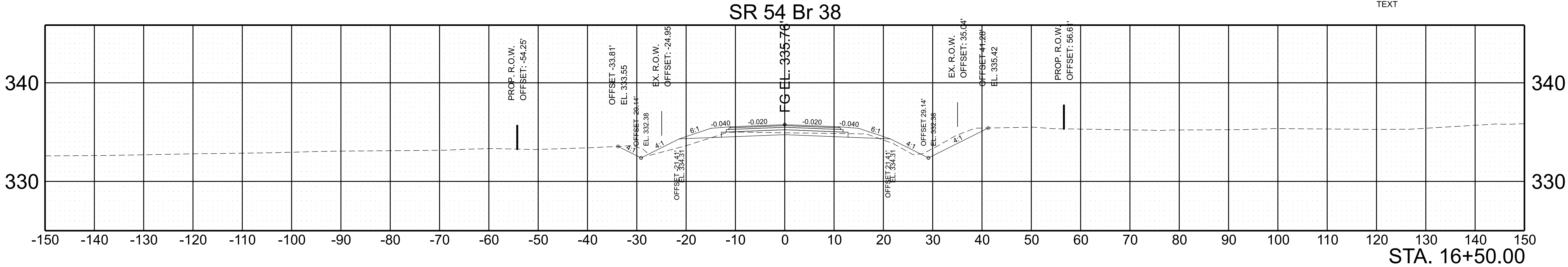
SCALE: 1"=10' HORIZ.
1"=5' VERT.

BEGIN STA. 14+50.00
END STA. 15+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	10

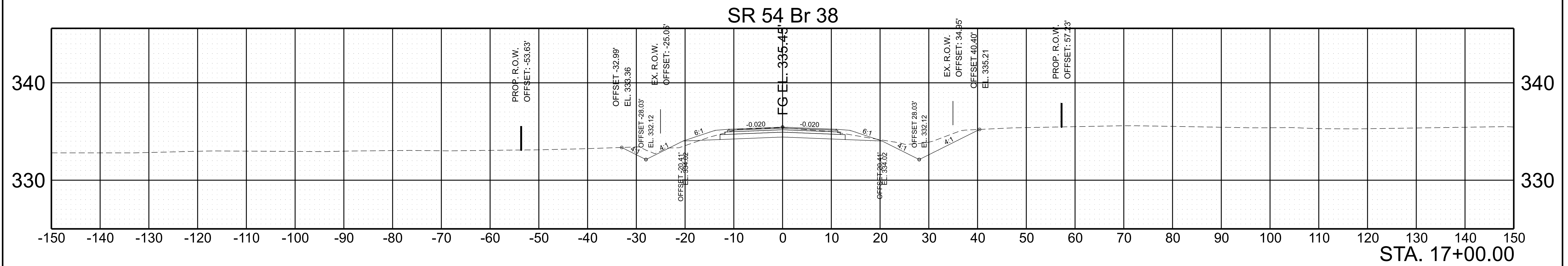
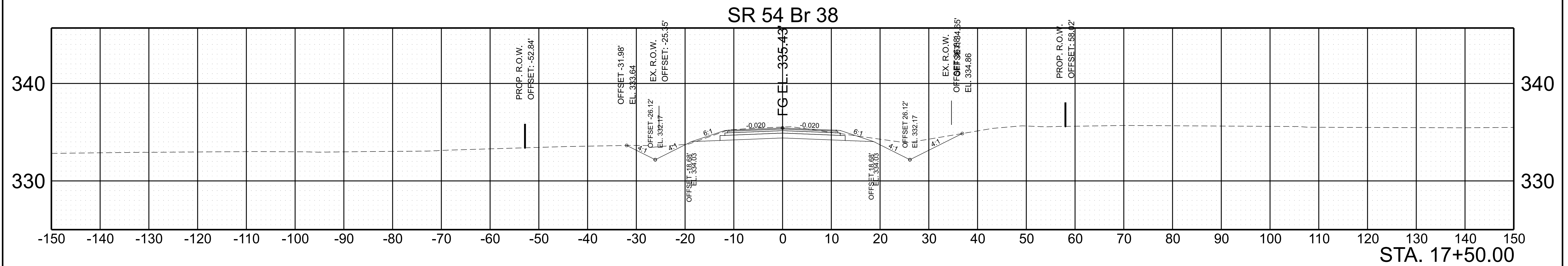
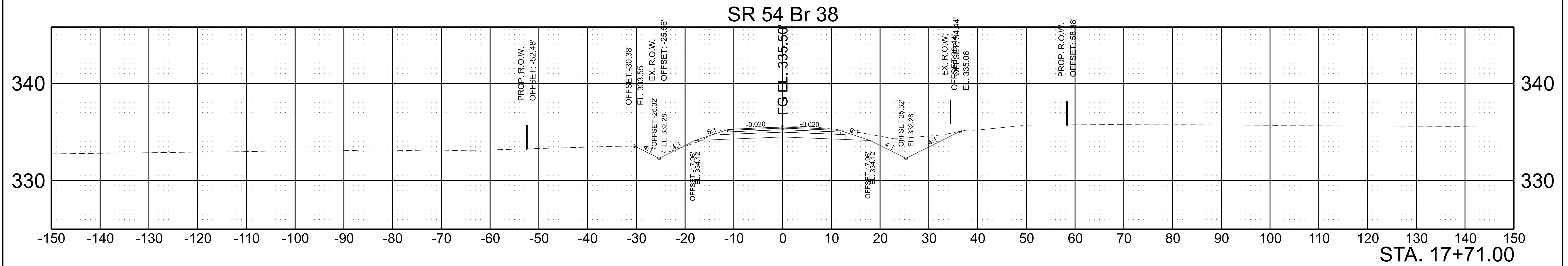
REV. ***DATE***
TEXT



SCALE: 1"=10' HORIZ.
1"=5' VERT.

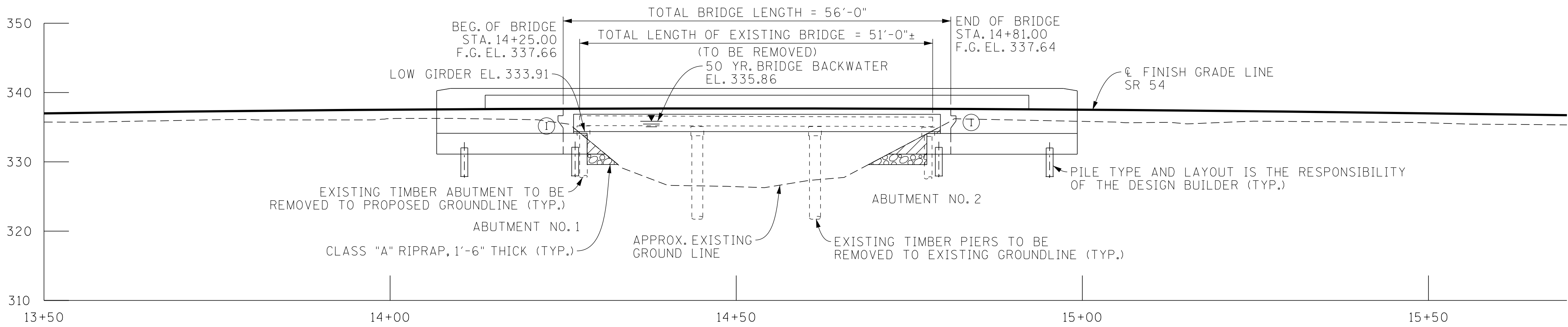
BEGIN STA. 15+50.00
END STA. 16+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
L & G	2026	38S054-S1-002	11



SCALE: 1"=10' HORIZ.	BEGIN STA. 17+00.00
1"=5' VERT.	END STA. 17+71.00

CONST. NO.:			
PROJECT NO.		YEAR	SHEET NO.
		2026	1 OF 2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
- -	- -	- -	- -
- -	- -	- -	- -
- -	- -	- -	- -
- -	- -	- -	- -
- -	- -	- -	- -

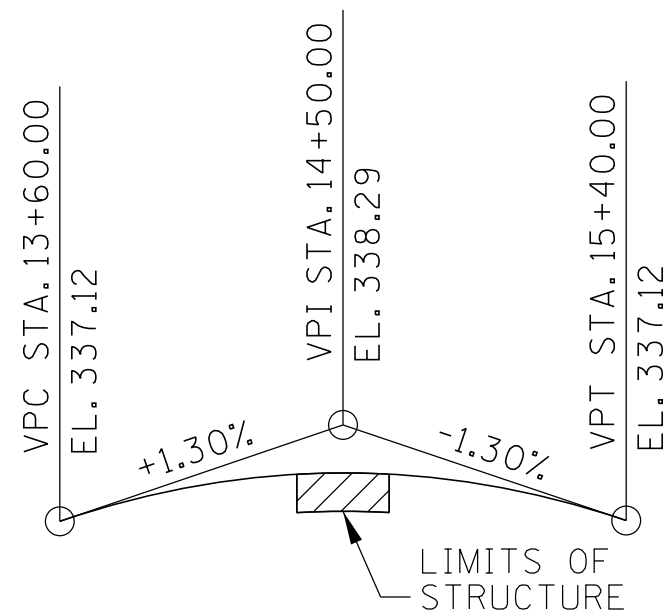


ELEVATION

HYDRAULIC DATA

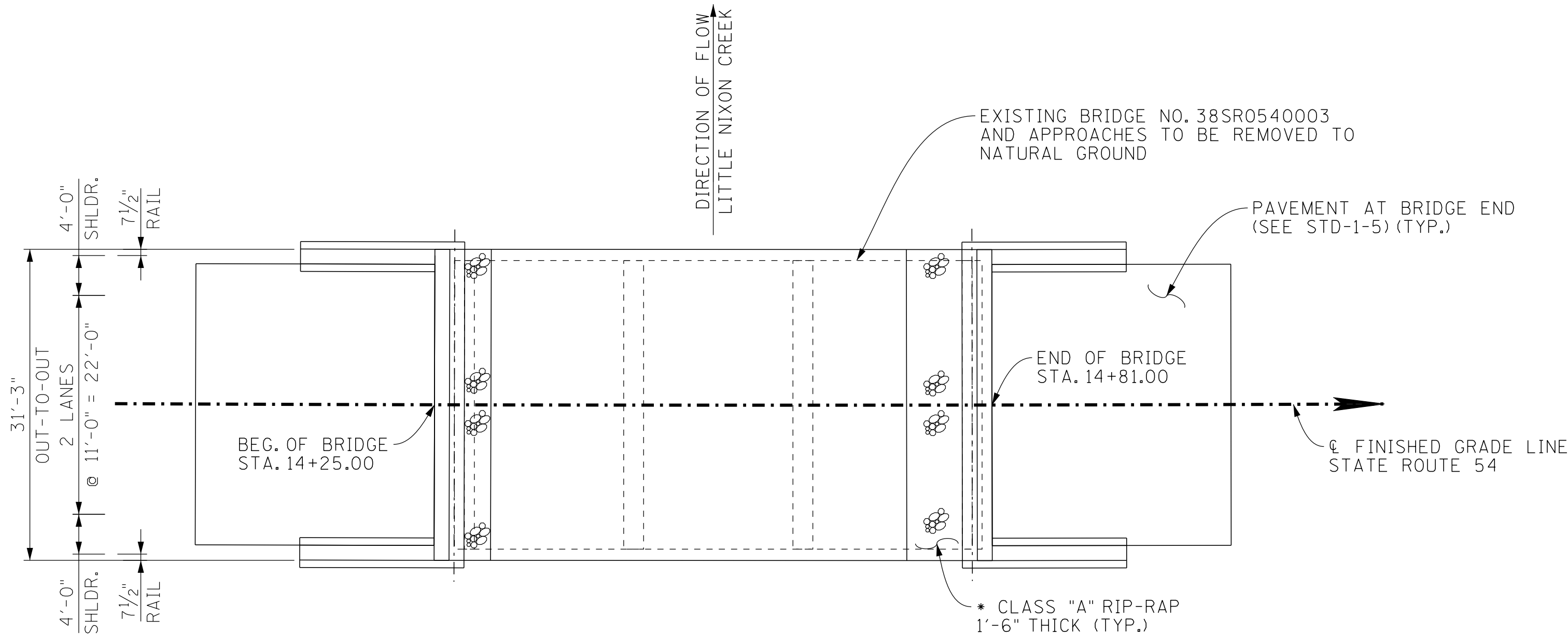
DRAINAGE AREA = 1.58 MI²
DESIGN DISCHARGE (50 YR.) = 2700 CFS
WATER AREA PROVIDED BELOW EL. 335.86 = 658.12 FT²
50 YR. VELOCITY = 4.48 FPS
50 YR. BRIDGE BACKWATER = 0.62 FT
ROADWAY OVERTOPPING EL. 335.01 FT.
100 YEAR DISCHARGE 3030 CFS @ EL. 335.96

- ① DENOTES: INTEGRAL ABUTMENT
- * DENOTES: RIPRAP CLASS, THICKNESS, AND LIMITS TO BE VERIFIED BY THE DESIGN BUILDER USING TDOT GUIDELINES (TYP.)



VC = 180.00'
GRADE SKETCH
STATE ROUTE 54

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).



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 FINAL HYDRAULIC ANALYSIS AND CONFIRMING THAT ALL HYDRAULIC CRITERIA CAN BE MET.

2049 AADT = 2,800
22'-0" ROADWAY,
4'-0" SHOULDER EACH SIDE,
AND STD-1-ISS PARAPET
DESIGN SPEED =50 MPH

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
CONCEPTUAL LAYOUT
OF BRIDGE
S.R. 54 OVER LITTLE NIXON CREEK
BRIDGE I.D. 38SR0540003
STATION 14+25.00
LOG MILE 13.92
HAYWOOD
2026

PIN NO.: 137109.10
DESIGN BY: D. FLOOD DATE: 05/2026
DRAWN BY: T. THOMAS DATE: 05/2026
SUPERVISED BY: G. LIPTAK DATE: 05/2026
CHECKED BY: T. LINVILLE DATE: 05/2026

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(LOOKING FORWARD ON SURVEY)



(LOOKING FORWARD ON SURVEY)

DENOTES: EXISTING STRUCTURE TO BE REMOVED

SEALD BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
CONCEPTUAL TYPICAL CROSS-SECTION
S.R. 54 OVER LITTLE NIXON CREEK
BRIDGE I.D. NO. 38SR0540003
STATION 14+25.00
LOG MILE 13.92
HAYWOOD COUNTY
2026

SUPERVISED BY: G. LIPIAK DATE: 05/2026