Concept Report Form

The Concept Report Form develops an initial project vision, basis of design and report (e.g., the Concept Report) to transition into the subsequent design stages (Stages 1 through 4 in the Project Delivery Network [PDN]). This form summarizes all project components using information to complete the Concept Report.

General Project Information

Project Name	SR 87 - Bridge over Branch (TMA)								
PIN	134858.00								
Route Information	**Route**	**NHS (Y/N)**	**Functional Class**		**City**		**County**		
	SR 87	No	Rural Major Collector				Lauderdale		
Project Information	**Begin Log Mile**	**End Log Mile**	**AADT[1]**	**Design Hour Vol. (DHV)[1]**	**Truck %[1]**	**Design Speed (MPH)**	**Posted Speed (MPH)**	**Base Year**	**Design Year**
	6.42		370	44	4.00	60	55	2029	2049
Project Description & Standard Drawings Used	The proposed bridge is to be a single span bridge using 30" box beams. The typical section for the approach and bridge will be 2-11' foot travel lanes with 2' shoulders. The out-to-out width based on the above recommendations will be 27'3". The proposed grade and vertical clearance will be raised 1'. It is recommended to maintain traffic during construction and shift the alignment or build a runaround. No state route detour is available, and the local route detour is 58 min (41.7 miles). Superstructure depth is 43" = 30" (beam) + 10" (deck) + 3" (width (in inches) x0.02/2). RD11-TS-2								Project Details
Important Project History or Related Projects	The existing structure is a 3 span timber bridge, 52' long with an out-to-out width of 28.8'. The existing structure has 2-11' travel lanes with minimal or no shoulders. The listed weight limit on the inspection report is 40 tons (2023). The discharges for the drainage basin (StreamStats Version 4.24.0) for drainage area of 0.48 square miles: Q10 is 489 cfs, Q50 is 464 cfs, and Q100 is 708 cfs. This project is not expected to utilize federal funding.								
Project Purpose/Need	The need to replace this bridge is due to the present condition of the existing bridge: -Built in 1925 -Timber bridges are being phased out and is near the end of it's service life -The Bridge is in FAIR Condition								
Major Environmental Considerations	Historic preservation: The bridge meets the age requirements for survey and evaluation. Ecology: Species records in the vicinity may require surveys as well as sweeps/ time of year restrictions. Nepa: Project location is in close proximity to the Lower Hatchie National Wildlife Refuge. If impacts are anticipated, please not that significant approval coordination and schedule delays will be expected.								

Multi-Modal Considerations	This project is in a rural area with a proposed 2-lane bridge width of less than 44 ft where the cost of dedicated multimodal accommodations is excessively disproportionate to the need and probable use. Excessively disproportionate is defined as exceeding 20 percent of the cost of the project.	
Major Project Risks	Approx. 0.86 acres of ROW to be acquired under the realignment option. Overhead electric and telecom utilities are present. This bridge replacement should be coordinated with the replacements at L.M. 5.18, L.M. 11.75, and L.M. 20.76 along SR 87. This document is covered by 23 USC § 407 and its production pursuant to fulfilling public planning requirements does not waive the provisions of § 407.	

[1] Traffic numbers reflect identified design year

Approvals

Executed for approval of this Concept Report

David Duncan
David Duncan (Oct 24, 2024 10:46 CDT)

Engineering Concepts and Statewide Programs Director — Date: 10/24/2024

The following individuals to execute if a bridge concept report:

Structures Director — Date: 10/25/2024

Regional Project Management Director — Date: 10/28/2024

Action Checklist			
0SD1 Initiate Concept Report and Request Funding			
Complete	**NA**		**Date Completed**
✓		Request and Finalize Safety Data	04/05/2024
✓		Request Project Number, PIN, and Task Profile Numbers	01/22/2024
	✓	Coordinate with Long Range Planning	
✓		Request and Finalize Traffic Data	02/21/2024
	✓	Request Preliminary Survey Data	
	✓	Initiate Division Reviews	
	✓	Schedule Site Review (with appropriate Divisions)	
0EN1 Conduct Environmental Desktop Review			
Complete	**NA**		**Date Completed**
✓		Confirm Environmental Desktop Review is Complete	10/11/2024
0MM1 Conduct Multimodal Review			
Complete	**NA**		**Date Completed**
	✓	Confirm Multimodal Review is Complete	
	✓	Review Multimodal Considerations & Recommendations	
0TO1 Conduct Initial Traffic Ops/TSMO Review *(include HQ Traffic Ops and Regional Traffic Office)*			
Complete	**NA**		**Date Completed**
		Confirm Transportation Systems Management & Operations (TSMO) Alignment & Operations Review is Complete	
		Request Concept Report Review	
0ST1 Develop Structures Recommendations			
Complete	**NA**		**Date Completed**
✓		Confirm Recommended Structure Type for Concept Report is Complete	08/12/2024
✓		Confirm Hydraulic Recommendations for Concept Report is Complete	08/12/2024
0SY1 Provide Preliminary Survey Data			
Complete	**NA**		**Date Completed**
	✓	Confirm Control Ground Survey Set	
	✓	Review Preliminary Survey Data	
	✓	Determine Time to Complete the Aerial Survey	
0GT1 Conduct Preliminary Geotechnical Assessment			
Complete	**NA**		**Date Completed**
	✓	Confirm Geotechnical Division Review is Complete	
0RD1 Provide Roadway Desktop Review			
Complete	**NA**		**Date Completed**
✓		Confirm Roadway Division Review is Complete	09/20/2024

Action Checklist			
0SD2 Develop Draft Concept Report			
Complete	**NA**		**Date Completed**
	✓	Conduct Intersection and Interchange Evaluation (IIE)	
	✓	Complete Conceptual Signal Warrants	
	✓	Develop Draft Conceptual Layouts/Crash Figures for Site Visit	
	✓	Compile Initial Divisional Reviews for Site Visit	
	✓	Prepare & Send Site Visit Packet	
	✓	Lead Site Visit	
	✓	Initiate Interstate Access Requests (IAR) Concept Coordination with FHWA (if applicable)	
✓		Develop, Compile, and Distribute the Draft Concept Report	09/09/2024
0TO2 Develop TSMO Scope Items *(include HQ Traffic Ops and Regional Traffic Office)*			
Complete	**NA**		**Date Completed**
	✓	Confirm Signal Warrants Analysis is Complete	
	✓	Confirm Lighting Warrants Analysis is Complete	
	✓	Review and Confirm TSMO & ITS Scope and Budget	
0RW1 Complete Preliminary Right-of-Way Estimates			
Complete	**NA**		**Date Completed**
	✓	Review and Confirm Preliminary Right-of-Way Cost Estimates	
0UT1 Complete Utility Preliminary Estimates			
Complete	**NA**		**Date Completed**
✓		Review and Confirm Preliminary Utility Estimate	09/20/2024
		Review and Confirm Preliminary Railroad Cost Estimate	
0SD3 Finalize Concept Report			
Complete	**NA**		**Date Completed**
	✓	Compile and Review Initial Risk Assessment	
✓		Finalize Conceptual Layouts	08/31/2024
✓		Develop Environmental Technical Study Area (ETSA)	08/31/2024
✓		Address Comments and Finalize Concept Report	10/21/2024
	✓	Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable)	
	✓	Develop Roadway Safety Audit (RSA) No Plans Document	
✓		Submit the final Concept Report for Review and Signatures (as needed; see 0SD3 for additional information)	10/23/2024
		Finalize Document and Upload All Needed Electronic Files	
		Notify the Project Management Director or Assigned Project Manager to Set Up Project (1PM1)	

NA Justification

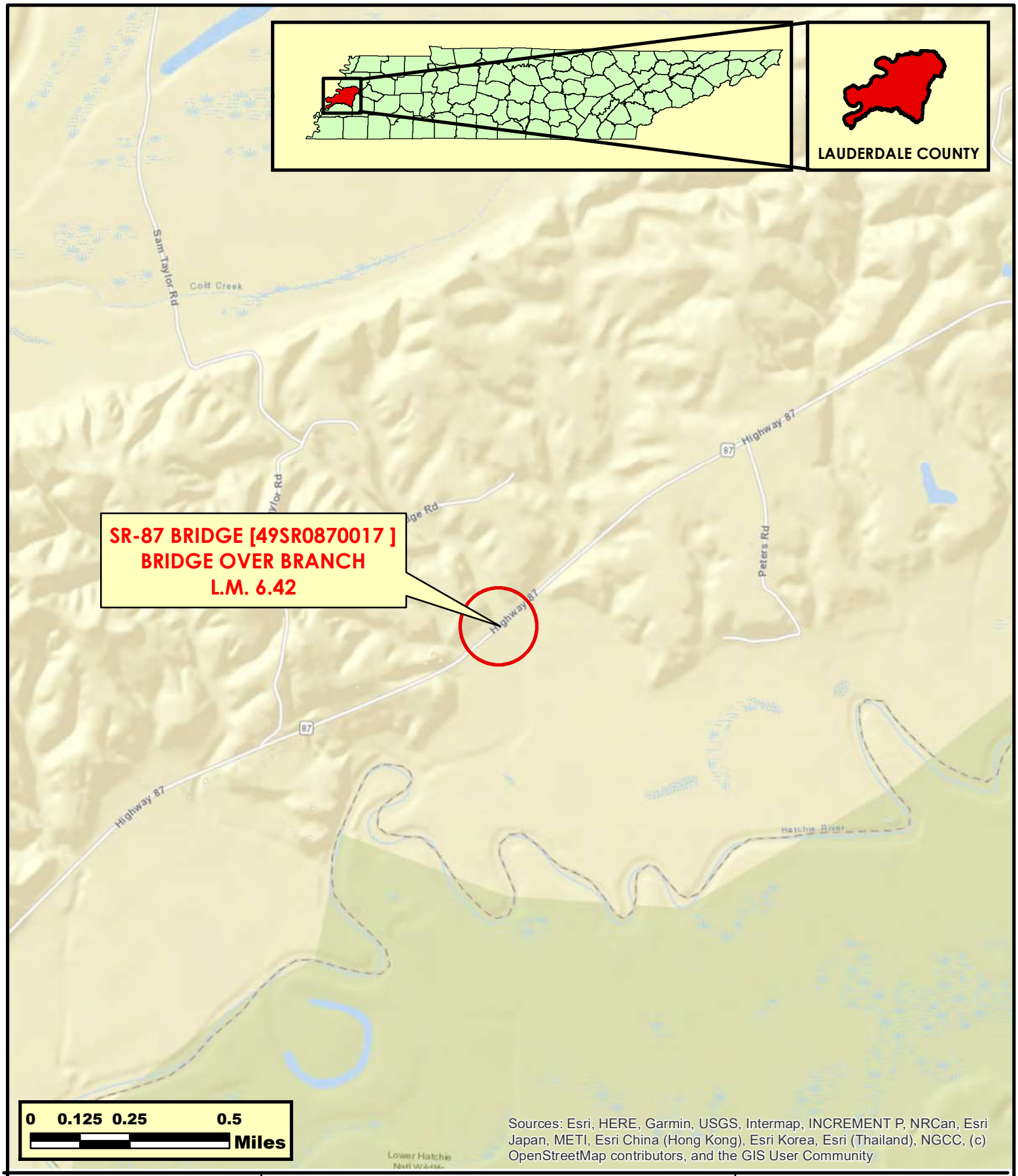
Coordinate with Long Range Planning-Long Range Planning coordination not needed for STID BCR document
Request Preliminary Survey Data- survey data not needed for STID BCR document
Schedule a site visit-site visit not required
0MM1 Conduct Multimodal Review- multimodal coordination not required
0SY1 Provide Preliminary Survey Data- survey data not needed for STID BCR document
0GT1 Conduct Preliminary Geotechnical Assessment- geotechnical data not received for STID BCR document
0SD2 Develop Draft Concept Report-no site visit was held for this bridge and no interchange or signal warrants were required
0TO2 Develop TSMO Scope Items-no signals or lighting needed within project limits
0RW1 Complete Preliminary Right-of-Way Estimates-ROW estimate calculated in cost estimate
0UT1 Complete Utility Preliminary Estimates-utility cost calculated in cost estimate
Compile and Review Initial Risk Assessment-Risk Assessment not needed for STID BCR document
Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable)-no interstate within project limits
Develop Roadway Safety Audit (RSA) No Plans Document- no plans document not needed for STID BCR document

Concept Report Table of Contents/Attachments		
	Included	**NA**
One-Page Summary (with project location map)	✓	
Conceptual Layout(s) and Cross Section	✓	
Environmental Technical Study Area (ETSA) Layout	✓	
Concept Cost Estimate (Construction Year Estimate)	✓	
TSMO & ITS Scope and Budget[1]		✓
ROW Form 44-A[1]		✓
Crash Packet[1]	✓	
Crash Prediction Analysis[1]		✓
Site Visit Attendee List		✓
Environmental Desktop Review Form[1]		
Multimodal Considerations & Recommendations[1]		✓
Existing Structure Summary[1]	✓	
Email or memo containing Structure Type Recommendations[1]	✓	
Email or memo containing Hydraulic Recommendations[1]	✓	
Hydraulic Data	✓	
Intersection and Interchange Evaluation (IIE) Analysis and Summary Form		✓
Traffic Analysis Summary/Tables	✓	
Forecasted Traffic Sheets[1]	✓	
Traffic Modeling (e.g., Synchro, VISSIM, Highway Capacity Software (HCS) Output)[1]		✓
Signal Warrant[1]		✓
Lighting Warrant[1]		✓
Initial Risk Assessment using the Risk Assessment Form		✓
Final Interstate Access Request (IAR) Document and Memo with Letter from STID Director		✓
Road Safety Audit (RSA) No Plans[1]		✓

NA Justification

TSMO & ITS Scope and Budget-no ITS within project limits; ROW Form 44-A-form not needed for STID BCR document; Crash Prediction Analysis- 1 crashes occurred within the project limits, crash prediction analysis not needed; Site Visit Attendee List-no site visit was held; Multimodal Considerations & Recommendation-no multimodal coordination;
Intersection and Interchange Evaluation (IIE) Analysis and Summary Form- AADT is too low for IIE Analysis
Traffic Modeling (e.g., Synchro, VISSIM, Highway Capacity Software (HCS) Output)- AADT too low to model
Signal Warrant-no signals warranted within project limits; Lighting Warrant-no lighting warranted within project limits
Initial Risk Assessment using the Risk Assessment Form-Risk Assessment not needed for STID BCR document
Final IAR Document and Memo with Letter from STID Director-no interstate access within project limits
Road Safety Audit (RSA) No Plans-RSA no plans document not needed for STID BTIR document

[1] External document to STID



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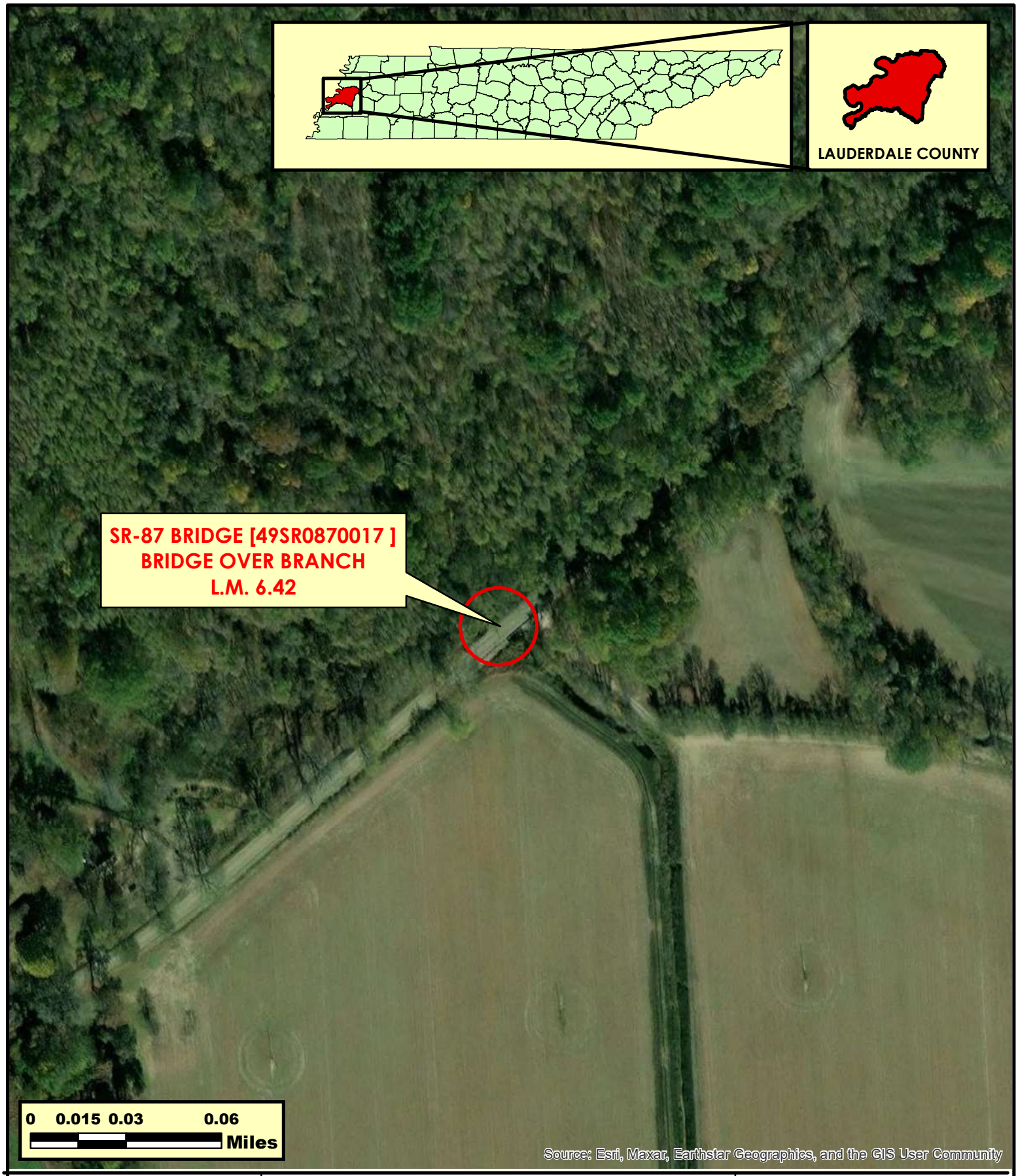
AREA MAP
SR-87 BRIDGE [49SR0870017]
BRIDGE OVER BRANCH
L.M. 6.42
LAUDERDALE COUNTY

TN TDOT Department of Transportation

PIN 134858.00



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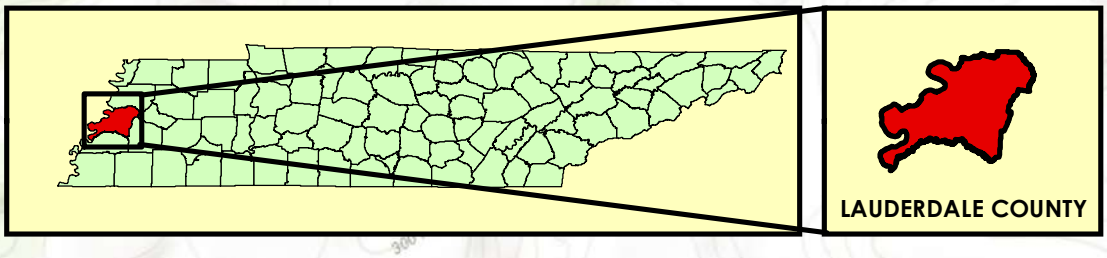
LOCATION MAP

SR-87 BRIDGE [49SR0870017]
BRIDGE OVER BRANCH
L.M. 6.42
LAUDERDALE COUNTY

TN TDOT Department of Transportation

PIN 134858.00



SR-87 BRIDGE [49SR0870017]
BRIDGE OVER BRANCH
L.M. 6.42

Sweet Charlie Rd
Chigger Ridge Rd
Chigger Ridge Rd
Highway 87
Highway 87
87
87
300 ft
300 ft
300 ft
300 ft
300 ft
350 ft
290 ft

0 0.05 0.1 0.2 Miles

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

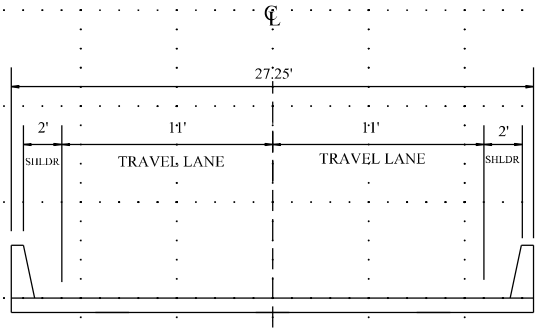
N

TOPOGRAPHIC MAP
SR-87 BRIDGE [49SR0870017]
BRIDGE OVER BRANCH
L.M. 6.42
LAUDERDALE COUNTY

TN TDOT Department of Transportation

PIN 134858.00

PROPOSED COMPLETED



0' 5' 10' 15'

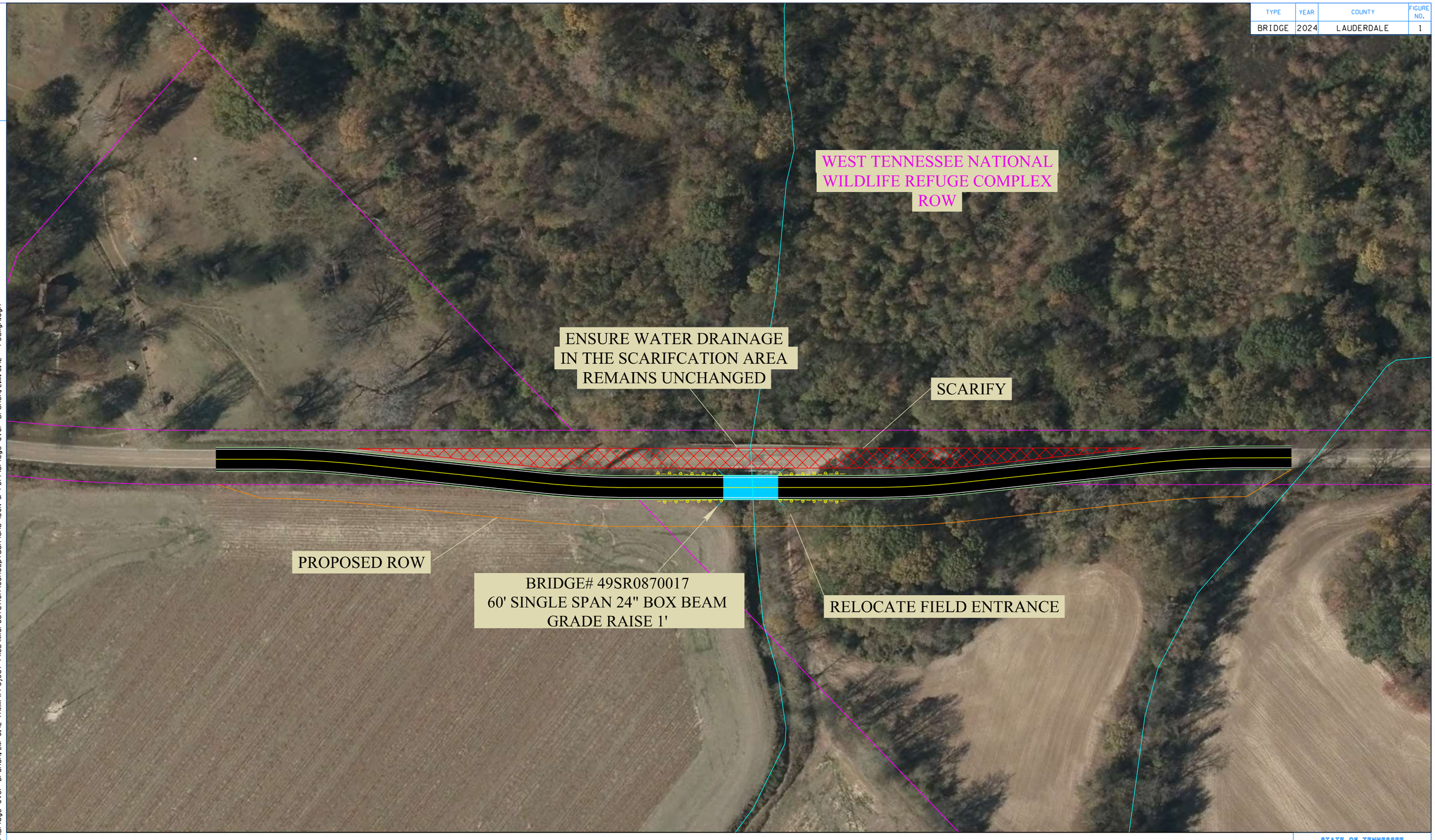
CROSS-SECTION DETAIL

REGION 4 TIMBER BRIDGE PROGRAM
TRANSPORTATION MODERNIZATION ACT (TMA)

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

TENNESSEE D.O.T.
S.T.I.D.
FILE NO. ____

TYPE	YEAR	COUNTY	FIGURE NO.
BRIDGE	2024	LAUDERDALE	1



0′ 100′ 200′ 300′

N

R4 TIMBER BRIDGE PROGRAM

STATE ROUTE 87
BRIDGE OVER BRANCH, L.M. 6.42
LAUDERDALE COUNTY

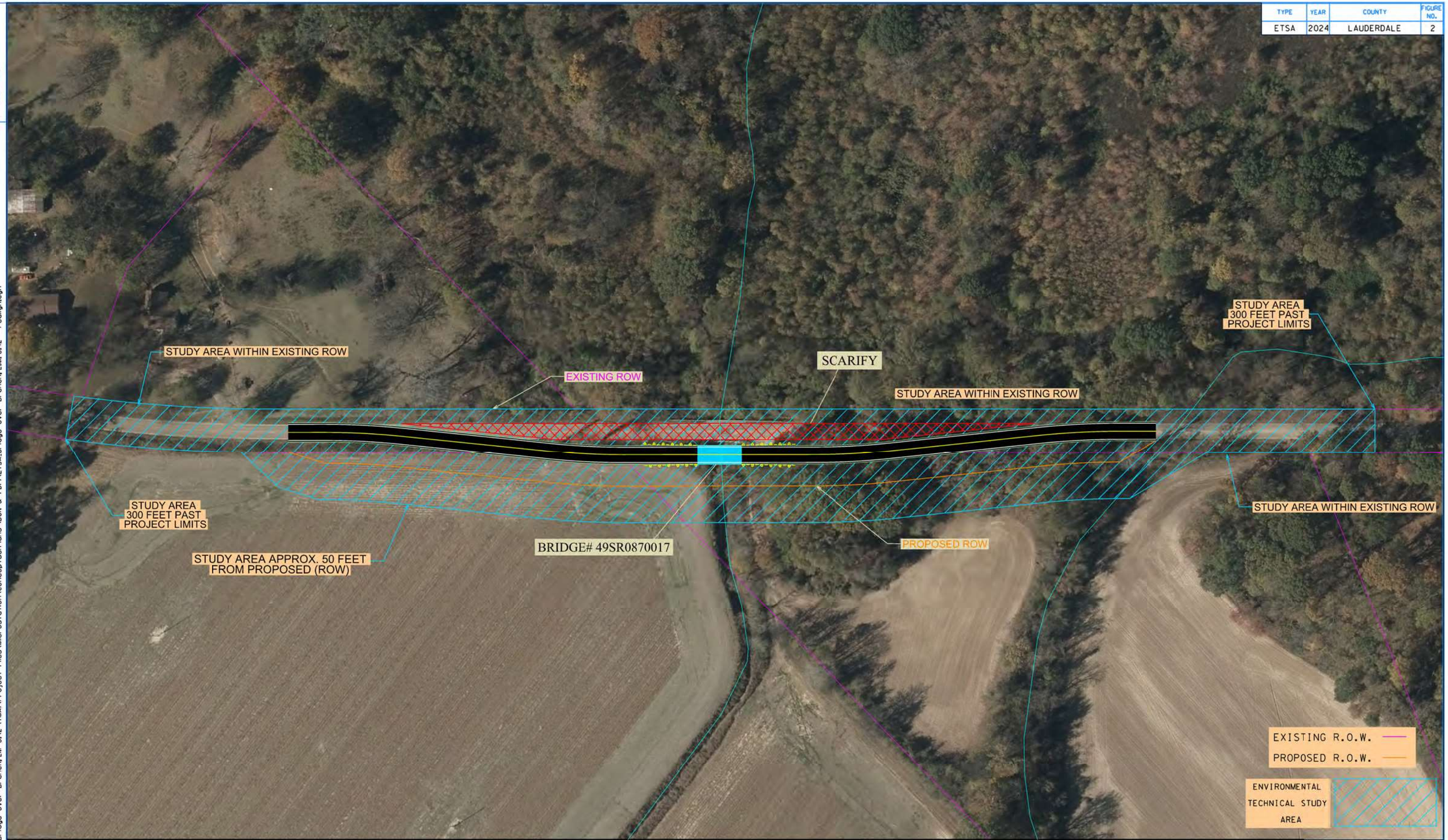
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
S.T.I.D.

FIGURE 1
S.R. 87
L.M. 6.42

10/9/2024 9:57:05 AM
X:\Projects\Lauderdale\SR 87\Bridge over Branch, LM 6.42 (TMA)\Project Files\Microstation\Conceptual Plans (DGN & PDF)\Bridge over Branch_LM 6.42 - realign.dgn

TENNESSEE D.O.T.
S.T.I.D.
FILE NO.

TYPE	YEAR	COUNTY	FIGURE NO.
ETSA	2024	LAUDERDALE	2



0′ 125′ 250′ 375′

N

ENVIRONMENTAL TECHNICAL STUDY AREA

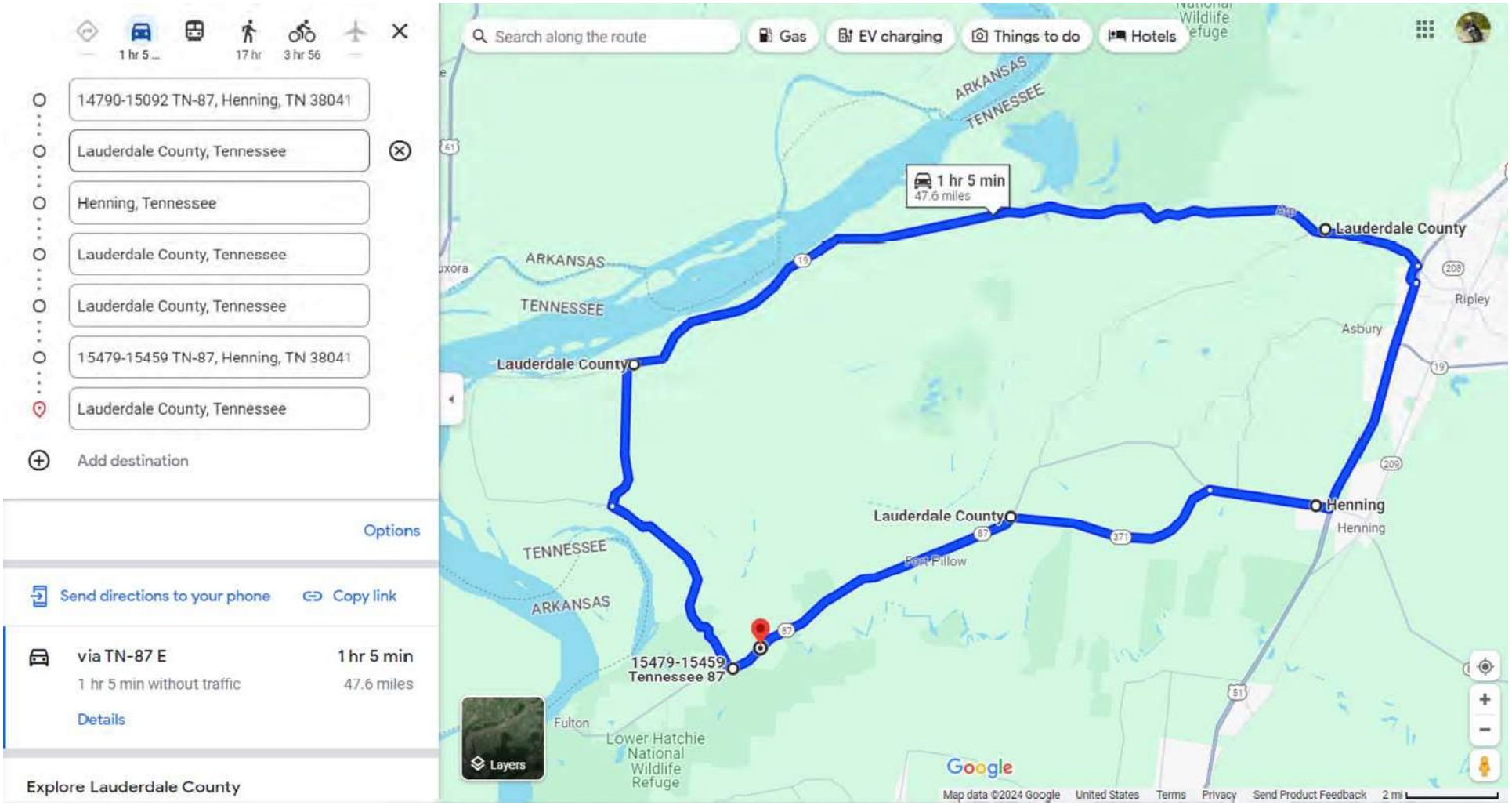
STATE ROUTE 87
BRIDGE OVER BRANCH, L.M. 6.42
LAUDERDALE COUNTY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
S.T.I.D.

FIGURE 2
S.R. 87
L.M. 6.42

8/22/2024 8:10:23 AM
X:\Projects\Lauderdale\SR 87\Bridge over Branch, LM 6.42 (TMA)\Project Files\Microstation\Conceptual Plans (DGN & PDF)\ETSA_Bridge over Branch, L.M. 6.42 - realign.dgn

DETOUR MAP - STATE ROUTE



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PUBLIC RECORDS REQUEST
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And its production pursuant to a public
Document records request does not
Waive the provisions of §409

Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

BRIDGE NO.

APPROACH #1 WITH 40 TON/40 TON WEIGHT LIMIT SIGN

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

LOOKING AHEAD ON ROUTE

APPROACH #1 ASPHALT SETTLED

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

VIEW ACROSS TOP OF DECK

LOOKING RIGHT FROM TOP OF BRIDGE

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

LOOKING LEFT FROM TOP OF BRIDGE

LOOKING BACK ON ROUTE

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

APPROACH #2 WITH 40 TON /40 TON WEIGHT LIMIT SIGN

BENT #1, FRONT SIDE

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

ABUTMENT #1

SPAN #1, BOTTOM OF DECK

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

SPAN #2, SLAB "B" CRACKED

SPAN #2, BOTTOM OF DECK

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

BENT #2, FRONT SIDE

SPAN #3, SLAB "C" SPALLED TO STEEL

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

SPAN #3, SLAB "A" SPALLED TO STEEL

ABUTMENT #2

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Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

BENT #1, REAR SIDE

ABUTMENT #1, PILE "I" SPLICED

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
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Document records request does not
Waive the provisions of §409

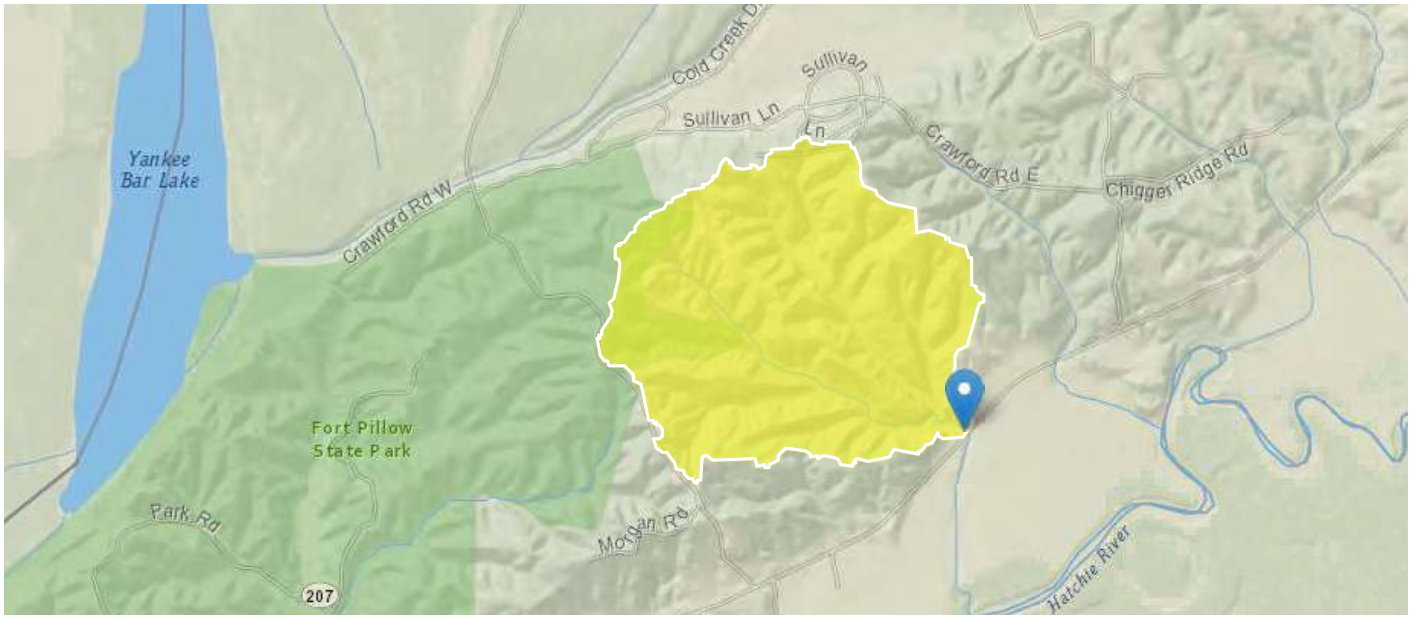
Bridge Loc. No: 49 - SR087 - 06.44 Date: 11-18-21

ALIGNMENT AT FRONT SIDE OF BENT #1, CAP"B"

SPAN #2, SLAB "B" SPALLING

Lauderdale Co SR087 - Bridge over Branch (LM 6.42)

Region ID: TN
Workspace ID: TN20240409143557588000
Clicked Point (Latitude, Longitude): 35.63630, -89.80645
Time: 2024-04-09 09:36:24 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CONTDA	Area that contributes flow to a point on a stream	0.92	square miles
DRNAREA	Area that drains to a point on a stream	0.92	square miles

Peak-Flow Statistics

Peak-Flow Statistics Parameters [DAOnly Area 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
CONTDA	Contributing Drainage Area	0.92	square miles	0.76	2308

Peak-Flow Statistics Flow Report [DAOnly Area 4]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIL	PIU	SE	ASEp	Equiv. Yrs.
50-percent AEP flood	417	ft^3/s	218	796	38.7	38.7	1.8
20-percent AEP flood	591	ft^3/s	316	1100	37.2	37.2	2.4
10-percent AEP flood	702	ft^3/s	372	1330	38	38	3.1

Statistic	Value	Unit	PIL	PIU	SE	ASEp	Equiv. Yrs.
4-percent AEP flood	838	ft^3/s	429	1640	40.1	40.1	3.8
2-percent AEP flood	935	ft^3/s	463	1890	42.2	42.2	4.2
1-percent AEP flood	1030	ft^3/s	491	2160	44.7	44.7	4.4
0.2-percent AEP flood	1250	ft^3/s	541	2890	51.1	51.1	4.7

Peak-Flow Statistics Citations

Law, G.S., and Tasker G.D.,2003, Flood-Frequency Prediction Methods for Unregulated Streams of Tennessee, 2000: U.S. Geological Survey Water-Resources Investigations Report 03-4176, 79p. (http://pubs.usgs.gov/wri/wri034176/)

Maximum Probable Flood Statistics

Maximum Probable Flood Statistics Parameters [Crippen Bue Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.92	square miles	0.1	10000

Maximum Probable Flood Statistics Flow Report [Crippen Bue Region 3]

Statistic	Value	Unit
Maximum Flood Crippen Bue Regional	4340	ft^3/s

Maximum Probable Flood Statistics Citations

Crippen, J.R. and Bue, Conrad D.1977, Maximum Floodflows in the Conterminous United States, Geological Survey Water-Supply Paper 1887, 52p. (https://pubs.usgs.gov/wsp/1887/report.pdf)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.19.4
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

TENNESSEE DEPARTMENT OF TRANSPORTATION
STRATEGIC TRANSPORTATION INVESTMENTS DIVISION

PROJECT NO.: 49S087-S1-005 ROUTE: S.R. 87
COUNTY: LAUDERDALE CITY:
PROJECT PIN NUMBER: 134858.00
PROJECT DESCRIPTION: BRIDGE OVER BRANCH @ L.M. 6.42

DIVISION REQUESTING:

		PAVEMENT DESIGN	☐
MAINTENANCE	☐	STRUCTURES	☐
S.T.I.D.	☒	SURVEY & ROADWAY DESIGN	☐
PROG. DEVELOPMENT & ADM.	☐	TRAFFIC SIGNAL DESIGN	☐
PUBLIC TRANS. & AERO.	☐	OTHER	☐

YEAR PROJECT PROGRAMMED FOR CONSTRUCTION: 2029
PROJECTED LETTING DATE: 2029

TRAFFIC ASSIGNMENT:

BASE YEAR		DESIGN YEAR					DESIGN ROADWAY % TRUCKS		DESIGN AVERAGE DAILY LOADS	
AADT	YEAR	AADT	DHV	%	YEAR	DIR.DIST.	DHV	AADT	FLEX	RIGID
340	2029	370	44	12	2049	65-35	4	6		

REQUESTED BY: NAME CALEB SMITH DATE 2/15/24
DIVISION S.T.I.D.
ADDRESS 1000 J. K. POLK BUILDING
NASHVILLE TN 37243

REVIEWED BY: RANDY BOGUSKIE Randy Boguskie DATE 2/21/2024
TRANSPORTATION MANAGER 1
SUITE 1000, JAMES K. POLK BUILDING

APPROVED BY: TONY ARMSTRONG Tony Armstrong DATE 2/21/2024
TRANSPORTATION MANAGER 2
SUITE 1000, JAMES K. POLK BUILDING

COMMENTS:

FURNISH THE 2029-2049 TRAFFIC DATA.

THIS TRAFFIC IS BASED ON A 2023 CYCLE COUNT. THE DESIGN YEAR TRAFFIC IS BASED ON GROWTH RATE FROM THE TN-TIMES LINEAR REGRESSION TOOL.

DHV'S ARE NOT REQUIRED FOR SIDE ROADS LESS THAN 1000 AADT.

NOTE: FOR BRIDGE REPLACEMENT PROJECTS, ADLs ARE NOT REQUIRED FOR ADTs OF 1000 OR LESS AND PERCENTAGE OF TRUCKS OF 7% OR LESS.
SEE ATTACHMENTS FOR TURNING MOVEMENTS AND/OR OTHER DETAILS. (REV. 6/9/21)

TN TDOT Department of Transportation

Environmental Division

0SD2 Environmental Desktop Review Form

Part 1 – Project Information

PIN	134858.00
Project Number (if available)	
County	Lauderdale
Route	SR87
Termini	Bridge over Branch (TMA)
Type of Document	
Date ENV DIV Comments are Due	10/10/24 by noon

Part 2: Provide information identifying known Environmental Resources within the proposed project area using the attached information. If no known resources are identified, each study area should note that none were identified.

Air & Noise

AIR QUALITY

Transportation Conformity

This project is in Lauderdale County which is in attainment for all regulated criteria pollutants. Therefore, conformity does not apply to this project.

Mobile Source Air Toxics (MSATs)

This project qualifies as a categorical exclusion under 23 CFR 771.117 and, therefore, does not require an evaluation of MSATs per FHWA's *"Interim Guidance Update on Air Toxic Analysis in NEPA Documents"* dated January 2023.

NOISE

This project is Type III in accordance with the FHWA noise regulation in 23 CFR 772 and TDOT's noise policy; therefore, a noise study is not needed.

Cultural Resources

Historic Preservation: The bridge and adjacent resources are 50 years and older and meet the age requirements for survey and evaluation. Additional work is required.

Archaeology: No known resources, but a survey will be required.

Ecology

Water resources are present in the project area. Species records in the vicinity may require surveys as well as sweeps / time of year restrictions.

HazMat

No known hazardous materials sites affect the area around this bridge replacement. No additional hazardous material studies are recommended at this time. The asbestos bridge survey has been completed and the following project commitment EDHZ001 has been submitted in PPRM. In the event hazardous materials or wastes are encountered within the right-of-way, notification shall be made per TDOT Standard Specifications for Road and Bridge Construction (January 1, 2021) Section 107.08.C. Disposition of hazardous materials or wastes shall be subject to all applicable Federal, State, and local regulations, including the applicable sections of the Federal Resource Conservation and Recovery Act, as amended; the Comprehensive Environmental Response, Compensation, and Liability Act, as amended; and the Tennessee Hazardous Waste Management Act of 1983, as amended. Databases reviewed include Google Earth imagery, EPA National Priorities List, EPA EnviroMapper (Envirofacts), TDEC Registered Underground Storage Tanks Public Data Viewer and Data and Reports, TDEC Division of Water Resources Public Data Viewer and Oil and Gas Wells database, TDEC Division of Remediation Sites Public Data Viewer, TDOT Integrated Bridge Information System, and others, as necessary.

EDHZ001. An Asbestos Containing Material (ACM) survey was completed on Bridge No. 49SR0870017 SR-87 over Branch LM 6.42 (49-SR087-06.42). No asbestos was detected. Please see the report for further details and photographs. No special accommodations for demolition and waste disposal are anticipated for these structures and the material can be deposited in a C&D landfill. Prior to the demolition or rehabilitation of any structure (bridge or building), the contractor is required to submit the National Emission Standards for Hazardous Air Pollutants standard 10-day notice of demolition to the TDEC Division of Air Pollution Control (per TDOT Standard Specifications for Road and Bridge Construction (January 1, 2021) Sections 107.08.D and 202.03).

NEPA

Preliminary review of the subject project location confirms close proximity to the **Lower Hatchie National Wildlife Refuge**. Please ensure that the project boundaries do not encroach nor hinder access to this **Section 6(f)** resource. If impacts are anticipated, please note that significant approval coordination and schedule delays will be expected.

Please ensure that existing access roads (Residential/Agriculture) are not hindered from the project phases during construction.