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.

			Ger	neral Proj	ect Informa	tion				
Project Name	Interstate 2	4 Westbou	nd - Br	idge over Sh	ellmound Rd					
PIN	130900.00									
Route	Route	NHS (Y/N)		Function	al Class		City		Coun	ty
Information	I-24 WB	Yes		Rural In	terstate				Mario	on
Project Information	Begin Lo Mile	_	l Log Iile	AADT ¹	Design Hour Vol. (DHV) ¹	Truck % ¹	Design Speed (MPH)	Posted Speed (MPH)	Base Year	Design Year
	1.29	1	.40	1,930	232	2.00	40	30	2026	2046
Project Description & Standard Drawings Used	is to be a 12 section on accommod out-to-out vapproximate	20' long coi the propos ate a futur width of 61 tely 3' to in ucture cent	ncrete led strue travel '3". The crease	beam bridge cture will co lane, a 12' de proposed the clearand	ntioned project with 3 spans and nsist of 2-12' lar outside shoulde finished grade of the to 16' 6". The ad 24', both to the	nd a maxingles with a 2 r, and concording the bridge roadway co	num span o 24' inside sh rete parape se will need	f 60'. The loulder, w ets for an to be rais	typical hich can	
Important Project History or Related Projects	The replacement of the Shellmound Rd Bridge over I-24 EB (Pin# 130902.00) located 0.25 miles south of the proposed I-24 WB Bridge over Shellmound Rd will need to be considered when scheduling construction. Existing bridge specifications: 3 span, 106' long, 40' 4" out-to-out, 15' 6" clearance, 32 tons load limit. Marion County Highway Department is planning to resurface Shellmound Rd in 2023.						Project Details			
Project Purpose/Need	- Built in 19	965. y rating is 7	'4.9 (FA	IR) – July 14,	the present con 2020 DOT standards.		ne existing b	oridge:		Proje
Major Environmental Considerations	There are r	no major er	vironm	nental consid	derations.					

Multi-Modal Considerations	along the shoulder.	idge will feature a 60' span which is wider ccommodate pedestrian and bicycle traffic traveling Roadway Design Guidelines, MM-TS-1, MM-BPR-1	
Major Project Risks	Utilities: Distribution lines, communication	s cable	
Concept	Total Current Project Cost	Construction Year Estimate	> 0
Concept Estimate and	\$ 20,200,000	\$ 25,800,000	ninaı
Timeline	Proposed Construction Year	Estimated Construction Duration	Preliminary Estimates
Timeline	2027	TBD	P. B.

Арр	<u>rovals</u>
Executed for approval of this Concept Report	
Steve Allen (Nov 18, 2022 05:19 CST)	Nov 18, 2022
STID Director	Date
The following individuals to execute if a bridge concept report: APPROVED By Ted A. Kniazewycz at 6:04 pm, Nov 19, 2022	11/19/2022
Structures Director	Date
Ala.	12/12/2022
Regional Project Development Director	Date
M-	Feb 7, 2023
Bureau Chief of Engineering	Date
PRESTON J ELLIOTT Digitally signed by PRESTON J ELLIOTT Date: 2022.12.12 12:46:04 -06'00'	
Bureau Chief of Environment and Planning	Date

¹ Traffic numbers reflect identified design year

		Action Checklist	
0SD1 Init	iate (Concept Report and Request Funding	
Complete	NA		Date Completed
	✓	Request and Finalize Safety Data	
✓		Request Project Number, PIN, and Task Profile Numbers	10/02/2020
	✓	Coordinate with Long Range Planning	
✓		Request and Finalize Traffic Data	04/26/2021
	✓	Request Preliminary Survey Data	
✓		Initiate Division Reviews	11/29/2021
✓		Schedule Site Review (with appropriate Divisions)	07/09/2021
0EN1 Con	duct	Environmental Desktop Review	
Complete	NA		Date Completed
✓		Confirm Environmental Desktop Review is Complete	01/06/2022
0MM1 Co	nduc	t Multimodal Review	
Complete	NA		Date Completed
✓		Confirm Multimodal Review is Complete	09/27/2022
✓		Review Multimodal Considerations & Recommendations	09/27/2022
0TO1 Con	duct	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	09/27/2022
	✓	Request Concept Report Review	
0ST1 Dev	elop :	Structures Recommendations	
Complete	NA		Date Completed
✓		Confirm Recommended Structure Type for Concept Report is Complete	03/31/2022
✓		Confirm Hydraulic Recommendations for Concept Report is Complete	04/06/2021
OSY1 Prov	vide F	Preliminary Survey Data	
Complete	NA		Date Completed
	✓	Confirm Control Ground Survey Set	
	✓	Review Preliminary Survey Data	
	✓	Determine Time to Complete the Aerial Survey	
0GT1 Con	duct	Preliminary Geotechnical Assessment	
Complete	NA		Date Completed
	✓	Confirm Geotechnical Division Review is Complete	
ORD1 Pro	vide	Roadway Desktop Review	
Complete	NA		Date Completed
	✓	Confirm Roadway Division Review is Complete	

✓ Conduct Intersection and Interchange Evaluation (IIE)			Action Checklist	
Conduct Intersection and Interchange Evaluation (IIE) Complete Conceptual Signal Warrants Complete Conceptual Signal Warrants Complete Conceptual Layouts/Crash Figures for Site Visit 07/06/2021 Compile Initial Divisional Reviews for Site Visit 07/09/2021 Prepare & Send Site Visit Packet 07/09/2021 Initiate Interstate Access Requests (IAR) Concept Coordination with FHWA (if applicable) 0 Pevelop, Compile, and Distribute the Draft Concept Report 11/03/2021 Total Develop TSMO Scope Items (Include HQ Traffic Ops and Regional Traffic Office) 0 Pevelop TSMO Scope Items (Include HQ Traffic Ops and Regional Traffic Office) 0 Pevelop TSMO Scope Items (Include HQ Traffic Ops and Regional Traffic Office) 0 Pevelop TSMO Scope Items (Include HQ Traffic Ops and Regional Traffic Office) 0 Pevelop TSMO Scope Items (Include HQ Traffic Ops and Regional Traffic Office) 0 Pevelop TSMO Scope Items (Include HQ Traffic Ops and Regional Traffic Office) 0 Pevelop TSMO Scope Items (Include HQ Traffic Ops and Regional Traffic Office) 0 Pevelop Ma	0SD2 Dev	elop	Draft Concept Report	
Complete Conceptual Signal Warrants	Complete	NA		Date Completed
Develop Draft Conceptual Layouts/Crash Figures for Site Visit 07/06/2021		✓	Conduct Intersection and Interchange Evaluation (IIE)	
✓ Compile Initial Divisional Reviews for Site Visit		✓	Complete Conceptual Signal Warrants	
✓ Prepare & Send Site Visit Packet 07/09/2021 ✓ Lead Site Visit 08/03/2021 ✓ Initiate Interstate Access Requests (IAR) Concept Coordination with FHWA (if applicable) 7 ✓ Develop, Compile, and Distribute the Draft Concept Report 11/03/2021 OTO2 Develop TSMO Scope Items (include HQ Traffic Ops and Regional Traffic Office) Complete NA Date Complete ✓ Confirm Signal Warrants Analysis is Complete ✓ ✓ Confirm Lighting Warrants Analysis is Complete ✓ ✓ Review and Confirm TScope and Budget ✓ ORW1 Complete Preliminary Right-of-Way Estimates Date Comp ✓ Review and Confirm Preliminary Right-of-Way Cost Estimates 11/03/2021 OUT1 Complete Utility Preliminary Estimates Date Comp ✓ Review and Confirm Preliminary Utility Estimate 11/03/2021 ✓ Review and Confirm Preliminary Railroad Cost Estimate 0SD3 Finalize Concept Report OSD3 Finalize Concept Report O9/27/2022 ✓ Compile and Review Initial Risk Assessment 09/27/2022 ✓	✓		Develop Draft Conceptual Layouts/Crash Figures for Site Visit	07/06/2021
Lead Site Visit Lead Site Visit		✓	Compile Initial Divisional Reviews for Site Visit	
Initiate Interstate Access Requests (IAR) Concept Coordination with FHWA (if applicable) Pevelop, Compile, and Distribute the Draft Concept Report OTO2 Develop TSMO Scope Items (include HQ Traffic Ops and Regional Traffic Office) Complete NA Oconfirm Signal Warrants Analysis is Complete Confirm Lighting Warrants Analysis is Complete Confirm Lighting Warrants Analysis is Complete Complete NA Obate Complete Review and Confirm TSMO & ITS Scope and Budget ORW1 Complete Preliminary Right-of-Way Estimates Complete NA Obate Complete NA Date Complete NA Date Complete NA Pate Complete NA Obate Complete NA Complete NA Complete NA Date Complete NA Date Complete NA Complete NA Date Complete NA Address Commental Technical Study Area (ETSA) Address Comments and Finalize Concept Report Address Comments and Finalize Concept Report Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable) Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable) Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable) Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable) Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable) Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable) Address Comment and Upload All Needed Electronic Files A Notify the Project Management Director or Assigned Project Manager to Set Up	✓		Prepare & Send Site Visit Packet	07/09/2021
Applicable Develop, Compile, and Distribute the Draft Concept Report	✓		Lead Site Visit	08/03/2021
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✓ Review and Confirm Preliminary Railroad Cost Estimate	Complete	NA		Date Completed
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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) Finalize Document and Upload All Needed Electronic Files Notify the Project Management Director or Assigned Project Manager to Set Up	✓		Develop Environmental Technical Study Area (ETSA)	09/27/2022
✓ 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) ✓ Finalize Document and Upload All Needed Electronic Files ✓ Notify the Project Management Director or Assigned Project Manager to Set Up	✓		Address Comments and Finalize Concept Report	09/29/2022
Submit the final Concept Report for Review and Signatures (as needed; see 0SD3 for additional information) Finalize Document and Upload All Needed Electronic Files Notify the Project Management Director or Assigned Project Manager to Set Up		1	·	
additional information) ✓ Finalize Document and Upload All Needed Electronic Files Notify the Project Management Director or Assigned Project Manager to Set Up		✓	Develop Roadway Safety Audit (RSA) No Plans Document	
Notify the Project Management Director or Assigned Project Manager to Set Up	✓			09/29/2022
		✓	Finalize Document and Upload All Needed Electronic Files	
Project (1PM1)		✓	Notify the Project Management Director or Assigned Project Manager to Set Up Project (1PM1)	

NA Justification

- Conduct Intersection and Interchange Evaluation (IIE) No interchange within the limits of the project
- Complete Conceptual Signal Warrants Signal warrants not needed for the low AADT
- Initiate Interstate Access Requests (IAR) Concept Coordination with FHWA (if applicable) Not applicable
- Confirm Signal Warrants Analysis is Complete AADT too low for signal warrant
- Review and Confirm TSMO & ITS Scope and Budget No ITS within project limits
- Review and Confirm Preliminary Railroad Cost Estimate No railway within project limits
- Address Comments and Finalize Interstate Access Requests (IAR) Document and Memo (if applicable) Not applicable

PIN: 130900.00

- Develop Roadway Safety Audit (RSA) No Plans Document - RSA outside the scope of this BTIR

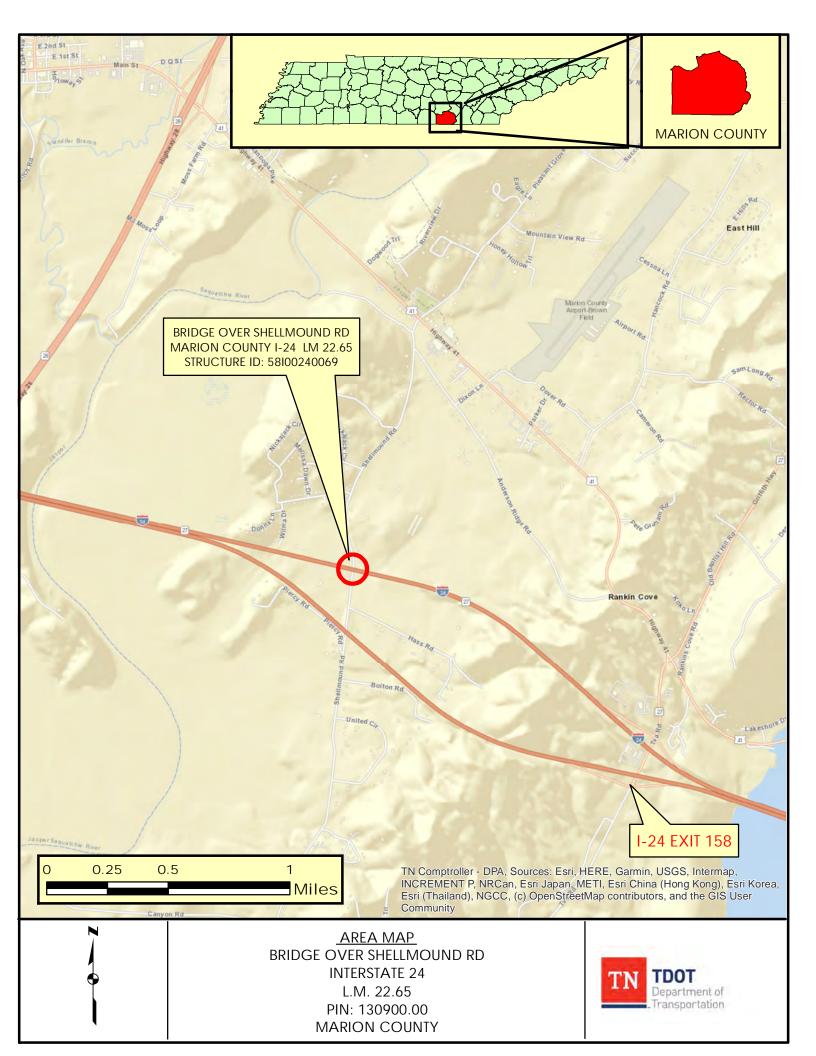
Concept Report		
Table of Contents/Attachments	Included	NA
One-Page Summary (with project location map)	✓	
Conceptual Layout(s) and Cross Section	✓	
Environmental Technical Study Area (ETSA) Layout	✓	
Concept Cost Estimate (Construction Year Estimate)	✓	
TSMO & ITS Scope and Budget ¹		✓
ROW Form 44-A ¹		✓
Crash Packet ¹		✓
Crash Prediction Analysis ¹		✓
Site Visit Attendee List	1	
Environmental Desktop Review Form ¹	✓	
Multimodal Considerations & Recommendations ¹	1	
Existing Structure Summary ¹	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		✓

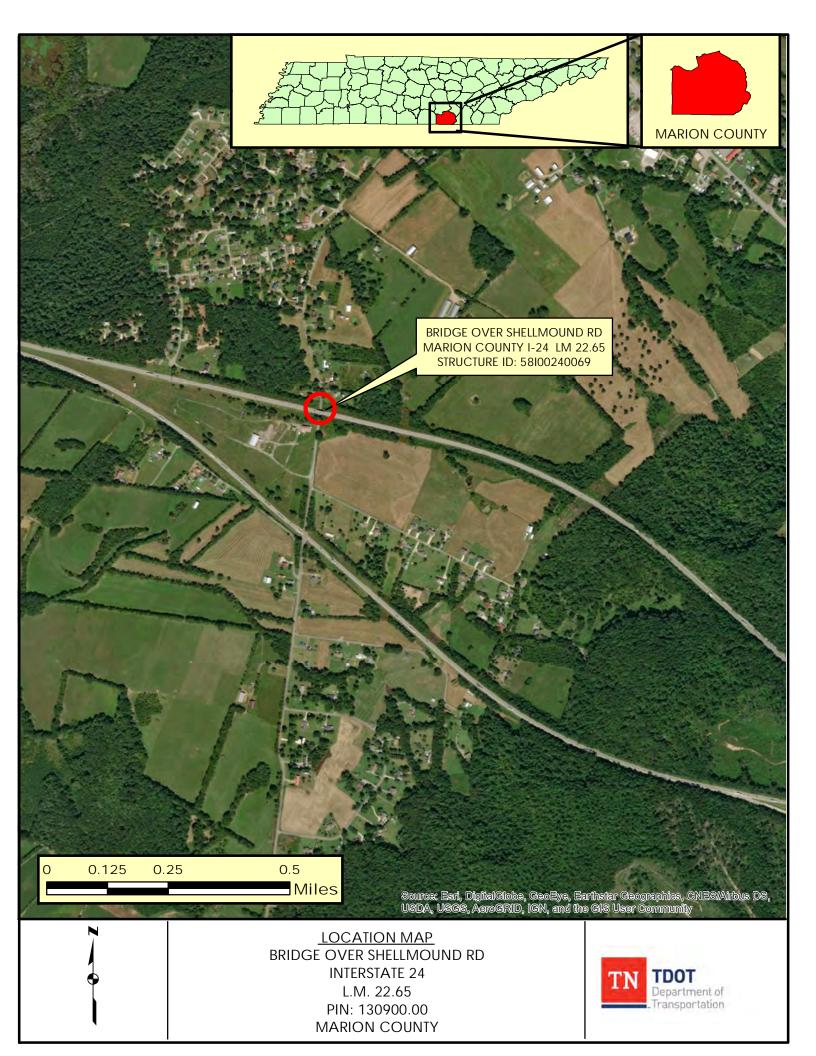
NA Justification

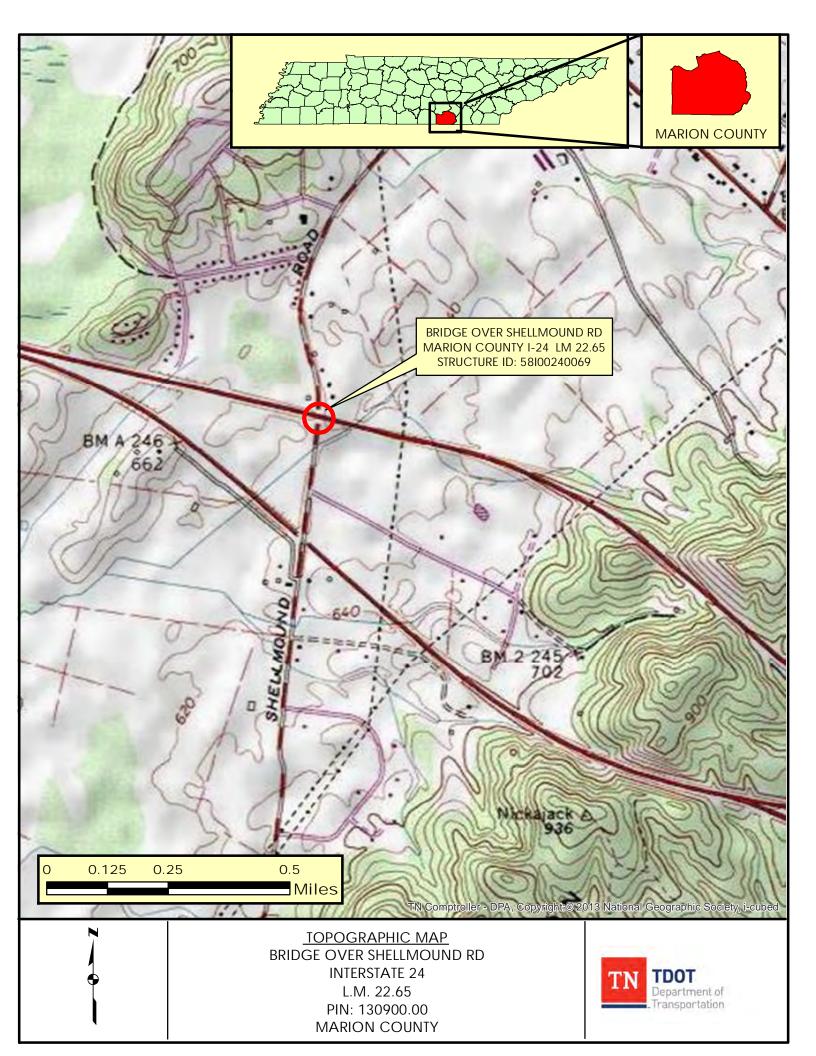
- TSMO & ITS Scope and Budget* No ITS at site
- Crash Packet* -Crash packets are not typically provided for Bridge replacements
- Intersection and Interchange Evaluation (IIE) Analysis and Summary Form No intersection or interchange
- Traffic Modeling (e.g., Synchro, VISSIM, Highway Capacity Software (HCS) Output)* AADT too low to model

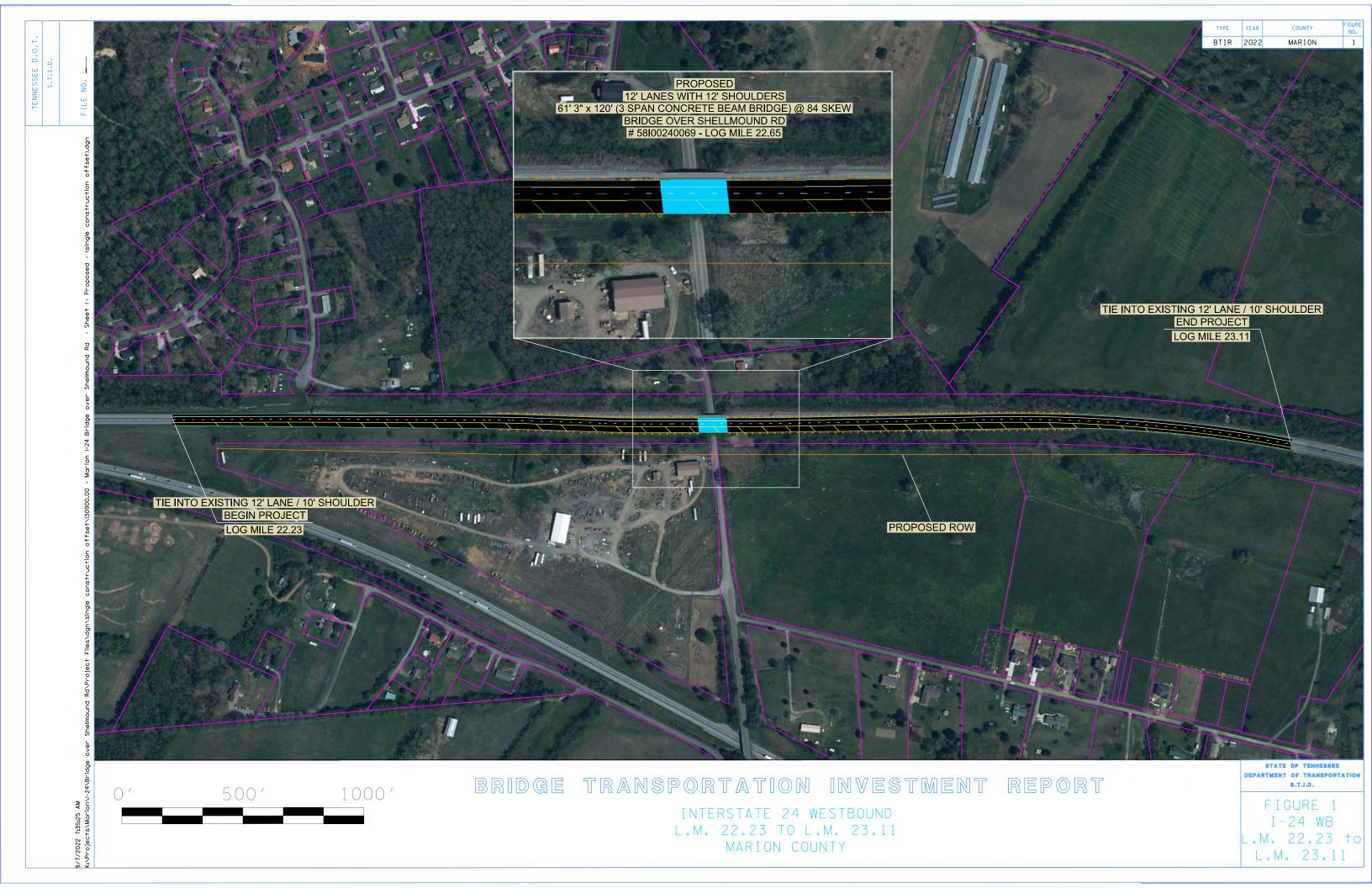
- Signal Warrant* No intersection to signal warrant
- Road Safety Audit (RSA) No Plans* RSA outside the scope of this BTIR

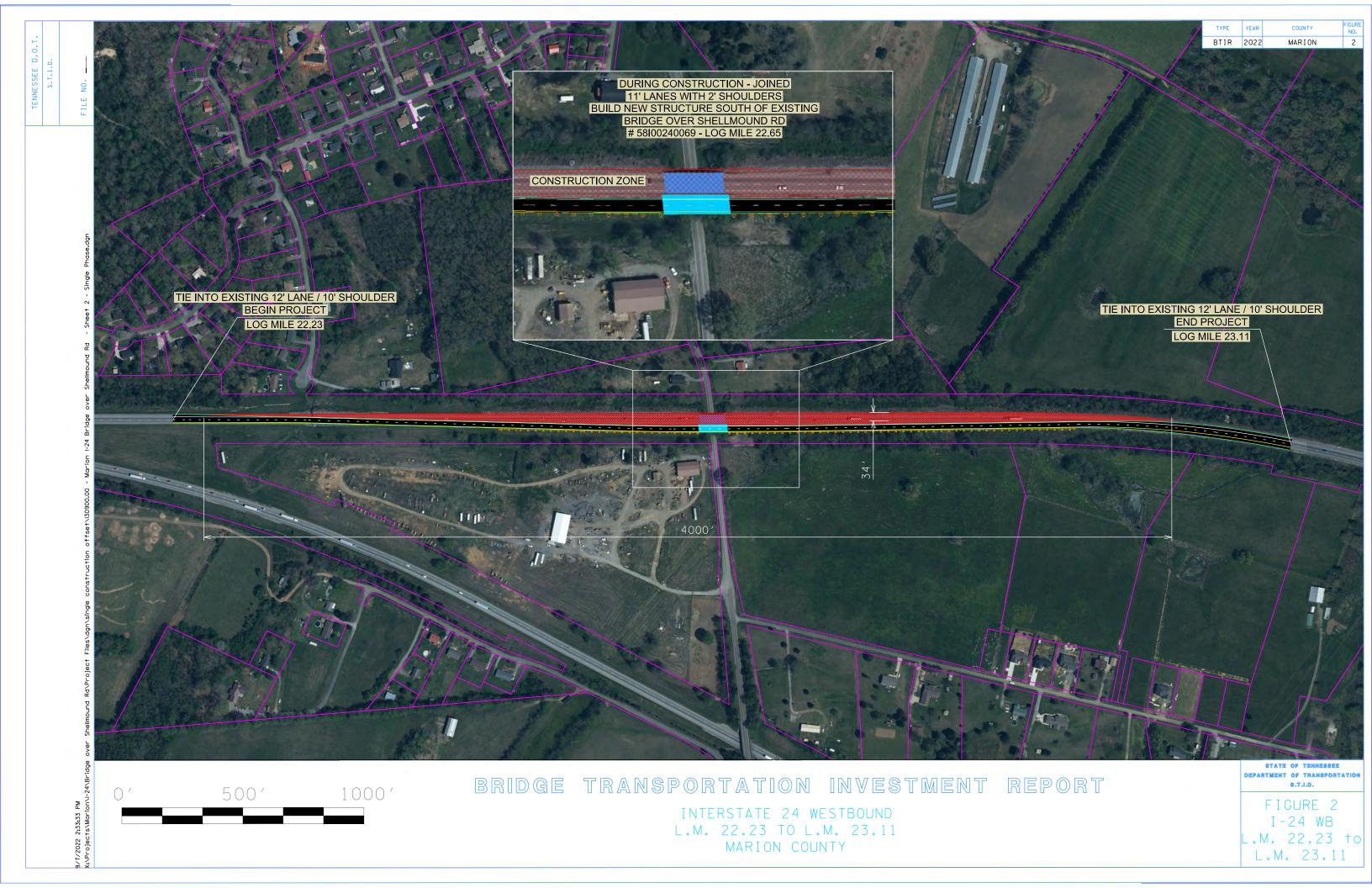
^{*} External document to STID

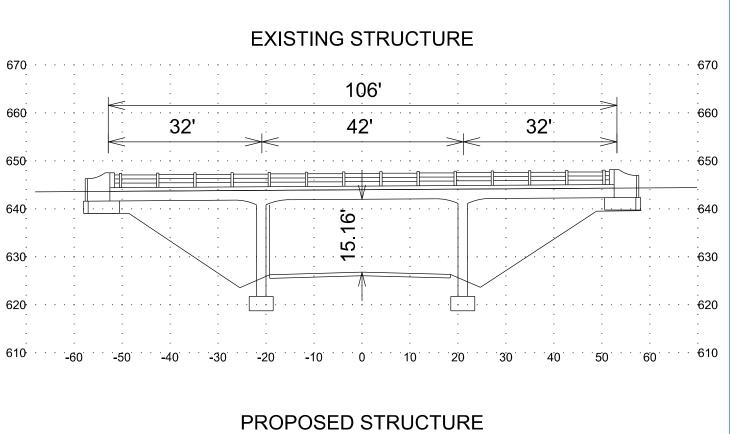


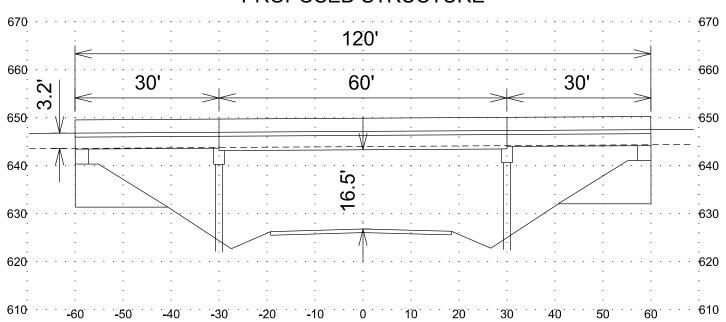






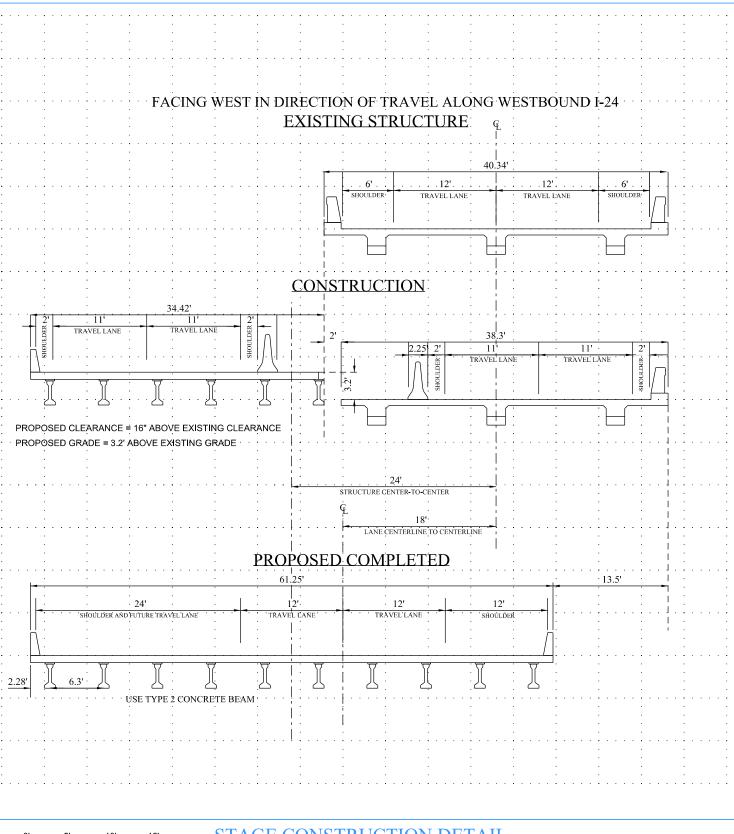








BRIDGE PROFILE
I-24 WESTBOUND
BRIDGE OVER SHELLMOUND RD - L.M. 22.65
BRIDGE ID: 58100240069
MARION COUNTY, TN





STAGE CONSTRUCTION DETAIL

I-24 WESTBOUND - L.M. 22.65 BRIDGE OVER SHELLMOUND RD BRIDGE ID: 58I00240069 MARION COUNTY, TN

LOCATION							
Bridge #:	58100240069	Feature Crossed:	Shellmound Rd				
Road Name:	I-24 WB	Log mile:	22.65				
Route ID:	0A966	System:	State Highway Agency				
City:	Jasper	Functional Class:	Rural Interstate				
County:	Marion						
PIN:	130900.00						

	ROADWAY	
	Existing	Proposed (Preliminary Design Estimate)
Design Standard		RD11-TS-5A
Route Characteristics		
AADT:	27,400	32,880
AADT Year:	2026	2046
Terrain:	Flat	Flat
No. Lanes:	2	2
Speed(Posted):	75	70
Speed (Design):		80
Approach Character.		
Lane Width (ft):	12	12
Shoulder Width (ft):	4' outside / 10' inside (6' over structure)	10' (12' over structure)
ROW Width (ft):	200'	250'
ROW Tracts Affected		2
ROW Required (acre)		3.0
Cross Section Width (ft):	24/36/200	24/60/250
Western Approach Length (ft)		2370
Eastern Approach Length (ft):		2160
	Centerline	Offset Bridge Centerline 24' (Offset
Alignment:		Lane 18')
Grade:	N/A	raise 3.2'
Surface Material:	Asphalt Concrete	Asphalt Concrete
App. Lower Than Structure	NO	NO
Utilities (list)	above ground communicati	on utilities run under bridge
Comments		

	STRUCTURE	
	Existing	Proposed (Preliminary Design Estimate)
Bridge Characteristics		
Year Built	1965	
Load Limit	32 tons	
Sufficiency Rating	74.9 (FAIR)	
Skew	84	84
Structure Type	Concrete Deck Girder	Type 2 Concrete Beam
Structures in Channel	YES	YES
Length (ft)	106'	120'
No. Spans (App./Main)	3 Main (42' max span)	3 Main (60' max span)
Width (curb to curb) (ft)	36.25'	60'
Width (o to o) (ft)	40.3'	61.25'
Sidewalks on Structure	NO	NO
Superstructure Depth (in)	81"/69"	73" / 79"
Girder Depth (in)	36"/24"	30" / 36"
Finish Grade-Low Girder (in)	45"/33"	40" / 46"
Bridge Rail Type	Concrete parapet	Concrete barrier
Bridge Rail Height (ft)	36"	33"
Indication Overtopping	NO	
Local Scour	NO	
Obstructions	NO	
Other Structures		Std Minimum clearance is 16' 6". Clearance unde L6", which will raise the proposed roadway 3' 2".
Comments		

	MAINTENANCE OF TRAFFIC
Method of Maintaining Traffic	stage construct
Description	Phase One: Build 34.42' of new structure south of existing. Phase 2: Shift both lanes of traffic onto new bridge. Demolish remaining existing stucture and complete proposed bridge.
Comments	

COST ESTIMATE SUMMARY

Route: I-24 WB

Termini: Replace Bridge over Shellmound Rd

Scope of Work: Widen bridge to accommodate future travel lane

Project Type of Work: Bridge Replacement

 County:
 Marion

 Length:
 0.92
 Miles

 Date:
 March 22, 2022

 Estimate Type:
 Concept



Construction Items \$0	\$212,000 \$5,250,000 \$0
Removal Items	\$5,250,000 \$0
Asphalt Paving	\$5,250,000 \$0
Concrete Pavement \$0 \$0 \$0 Drainage \$0 \$0 \$0 Appurtenances \$0 \$0 \$0 Structures \$0 \$0 \$0 Fencing \$0 \$0 \$0 Signalization & Lighting \$0 \$0 \$0 Railroad Crossing \$0 \$0 \$0 Earthwork \$0 \$0 \$0 Earthwork \$0 \$0 \$0 Clearing and Grubbing \$0 \$0 \$0 Seeding & Sodding \$0 \$0 \$0 Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	\$0
Drainage	
Appurtenances \$0 \$0 \$0 Structures \$0 \$0 \$0 Fencing \$0 \$0 \$0 Signalization & Lighting \$0 \$0 \$0 Railroad Crossing \$0 \$0 \$0 Earthwork \$0 \$0 \$0 Clearing and Grubbing \$0 \$0 \$0 Seeding & Sodding \$0 \$0 \$0 Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	4
Structures \$0 \$0 \$0 Fencing \$0 \$0 \$0 Signalization & Lighting \$0 \$0 \$0 Railroad Crossing \$0 \$0 \$0 Earthwork \$0 \$0 \$0 Clearing and Grubbing \$0 \$0 \$0 Seeding & Sodding \$0 \$0 \$0 Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	\$157,000
Fencing	\$0
Signalization & Lighting \$0 \$0 \$0 Railroad Crossing \$0 \$0 \$0 Earthwork \$0 \$0 \$0 Clearing and Grubbing \$0 \$0 \$0 Seeding & Sodding \$0 \$0 \$0 Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	\$1,410,000
Railroad Crossing \$0 \$0 \$0 Earthwork \$0 \$0 \$0 Clearing and Grubbing \$0 \$0 \$0 Seeding & Sodding \$0 \$0 \$0 Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	\$0
Earthwork \$0 \$0 \$0 Clearing and Grubbing \$0 \$0 \$0 Seeding & Sodding \$0 \$0 \$0 Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	\$0
Clearing and Grubbing \$0 \$0 \$0 Seeding & Sodding \$0 \$0 \$0 Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	\$0
Seeding & Sodding \$0 \$0 \$0 Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0 \$0	\$3,660,000
Rip-Rap or Slope Protection \$0 \$0 \$0 Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0 \$0	\$0
Guardrail \$0 \$0 \$0 Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0 \$0	\$28,700
Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0 \$0	\$31,900
Signing \$0 \$0 \$0 Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0 \$0	\$44,800
Pavement Markings \$0 \$0 \$0 Maintenance of Traffic \$0 \$0 \$0 Mobilization 5% \$0 \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0 \$0	\$10,800
Mobilization 5% \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	\$15,300
Mobilization 5% \$0 \$0 Other Items and Annual Inflation 10% \$0 \$0	\$649,000
	\$573,000
	\$1,200,000
Const. Contingency (Structures 30% \$0 \$0	\$3,550,000
Const. Eng. & Inspec. 10% \$0 \$0	\$1,680,000
Construction Estimate \$0 \$0	\$18,500,000
Interchanges & Unique Intersections	
Roundabouts \$0 \$0 \$0	\$0
Interchanges \$0 \$0 \$0	\$0
Right-of-Way & Utilties LOCAL STATE FEDERAL T	OTAL
0% 0% 0%	
Right-of-Way \$0 \$0	\$61,400
Utilities \$0 \$0 \$0	\$19,000
Preliminary Engineering LOCAL STATE FEDERAL T	OTAL
O% O% O%	
Prelim. Eng. 8.7% \$0 \$0	\$1,610,000
Total Project Cost (2022) \$ - \$ - \$	20,200,000

PAY ITEM SUMMARY

				ADDITIONAL	TOOL QUANTITIES +	Statewide	
TDOT PAY ITEM	TDOT DESCRIPTION	UNIT	TOOL QUANTITIES	QUANTITIES	QUANTITIES	UNIT COST	TOTAL COST
Pavment Removal							Quantities
202-03.01	REMOVAL OF ASPHALT PAVEMENT		18163		18163	\$ 11.50	
415-01.02	COLD PLANING BITUMINOUS PAVEMENT	SY	1126			\$ 2.57 OVAL TOTAL (ROUNDED)	\$ 2,898.18 \$ 211,800
						, , , , , , , , , , , , , , , , , , , ,	
Asphalt Roads 303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	78794		78794	\$ 26.00	\$ 2,048,776.79
307-(01, 02, 03).01	ASPHALT CONCRETE MIX (All Grades) (BPMB-HM) GRADING A	TON	13925		13925	\$ 96.50	\$ 1,343,723.78
307-01.(20 & 21 & 22) 307-(01 & 02 & 03).08	AGGREGATE (BPMB-HM) GRADING A-S MIX ASPHALT CONCRETE MIX (ALL GRADES) (BPMB-HM) GRADING B-M2		5108 7526		5108 7526	\$ 86.50 \$ 96.50	\$ 441,872.98 \$ 726,195.07
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	92		92	\$ 807.84	\$ 74,529.55
402-02 403-01	AGGREGATE FOR COVER MATERIAL (PC) BITUMINOUS MATERIAL FOR TACK COAT (TC)		333 39		333 39	\$ 57.22 \$ 747.73	\$ 19,053.44 \$ 29,063.89
411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	2929		2929	\$ 99.87	\$ 292,491.61
411-(01 & 02 & 03).10	ACS MIX(ALL GRADES) GRADING D	TON	2257		2257 PA\	\$ 119.74 VING TOTAL (ROUNDED)	\$ 270,215.06 \$ 5,246,000
Community Decide							
Concrete Roads				CONCRET	TE RAMPS AND ROADW	/AYS TOTAL (ROUNDED)	\$ -
Drainage							
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)		890		890	7 00.00	
611-07.01 611-07.02	CLASS A CONCRETE (PIPE ENDWALLS) STEEL BAR REINFORCEMENT (PIPE ENDWALLS)		28 2632		28 2632	\$ 1,425.66 \$ 3.12	\$ 39,479.48 \$ 8,206.81
710-02	Aggregate Underdrains (with pipe)		4541		4541	\$ 3.12 \$ 7.10	\$ 32,226.61
					DRAIN	IAGE TOTAL (ROUNDED)	\$ 157,000
Appurtenances							
				ROADWAY AND PA	VEMENT APPURTENAM	NCES TOTAL (ROUNDED)	\$ -
Earthwork & Mineral							
105-01 203-01	CONSTRUCTION STAKES, LINES AND GRADES ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	LS CY	1 239270		1 239270	\$ 109,915.84 \$ 8.88	\$ 109,915.84 \$ 2,125,360.78
203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	29909		29909	\$ 32.33	\$ 966,949.43
203-03	BORROW EXCAVATION (UNCLASSIFIED)	CY	44863		44863	\$ 10.31 ERAL TOTAL (ROUNDED)	\$ 462,463.09 \$ 3,664,700
					EARTHWORK & WIIN	ERAL TOTAL (ROUNDED)	3 3,004,700
Structures N/A	Removal of Bridge	SF	4272		4272	\$ 20.00	\$ 85,436.00
N/A	New Bridge (Concrete Girder):		7350		7350	\$ 180.00	\$ 1,323,000.00
					STRUCTU	JRES TOTAL (ROUNDED)	\$ 1,408,500
Interchanges and Unique Intersections							
				INTERCHANGES AN	ID UNIOUE INTERSECTI	ONS TOTAL (ROUNDED)	ς .
						,	Ť
Lighting & Signalization							•
Lighting & Signalization						TION TOTAL (ROUNDED)	\$ -
Guardrail					IGHTING & SIGNALIZAT	TION TOTAL (ROUNDED)	\$ -
Guardrail 705-01.01	GUARDRAIL AT BRIDGE ENDS W Beam GR (Type 2) Mash TL3		100 1362	ı	IGHTING & SIGNALIZAT	FION TOTAL (ROUNDED) \$ 66.52	\$ - \$ 6,651.84
Guardrail	GUARDRAIL AT BRIDGE ENDS W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3	LF	100 1362 13		100 1375 4	\$ 66.52 \$ 20.07 \$ 2,626.00	\$ 6,651.84 \$ 27,596.25 \$ 10,504.00
Guardrail 705-01.01 705-06.01	W Beam GR (Type 2) Mash TL3	LF	1362	12.76	100 1375 4	\$ 66.52 \$ 20.07	\$ 6,651.84 \$ 27,596.25
Guardrail 705-01.01 705-06.01 705-06.20 Seeding and Sodding	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3	LF EA	1362 13	12.76	100 1375 4 GUARD	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED)	\$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800
Guardrail 705-01.01 705-06.01 705-06.20	W Beam GR (Type 2) Mash TL3	LF EA	1362	12.76	100 1375 4	\$ 66.52 \$ 20.07 \$ 2,626.00	\$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800
Guardrail 705-01.01 705-06.01 705-06.20 Seeding and Sodding 801-01	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH)	LF EA	1362 13	12.76	100 1375 4 GUARD	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70	\$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800 \$ 13,622.77 \$ 8,361.81 \$ 6,683.98
Guardrail 705-01.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH)	LF EA	1362 13 500 375	12.76	100 1375 4 GUARD	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 27.26 \$ 22.31	\$ \$.6,651.84 \$.27,596.50 \$.10,594.00 \$.44,800 \$.13,622.77 \$.8,361.81
Guardrail 705-01.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01 801-01 801-02 Maintenace of Traffic	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH)	UNIT UNIT UNIT	1362 13 500 375 375	12.76	100 1375 4 GUARD 500 375 375	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70	\$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800 \$ 3,622.77 \$ 8,361.81 \$ 6,633.98 \$ 28,700
Guardrail 705-01.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01 801-01 801-02 Maintenace of Traffic N/A	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control	UNIT UNIT UNIT	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 5000	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 12.70 DING TOTAL (ROUNDED)	\$ \$
Guardrail 705-01.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01 801-01 801-02 Maintenace of Traffic	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH)	UNIT UNIT UNIT	1362 13 500 375 375	12.76	100 1375 4 GUARD 500 375 375 375 5000	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 12.70 DING TOTAL (ROUNDED)	\$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800 \$ 3,622.77 \$ 8,361.81 \$ 6,633.98 \$ 28,700
Guardrail 705-01.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01 801-01 801-02 Maintenace of Traffic N/A 712-02.02	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control	UNIT UNIT UNIT	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 375 5000	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70 DING TOTAL (ROUNDED)	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01 801-01 801-02 Maintenace of Traffic N/A	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control	UNIT UNIT UNIT UNIT LS LF	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 5006 11 16707 MAINTENANCE OF TRA	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 27.26 \$ 17.70 DING TOTAL (ROUNDED) \$ 30.18 \$ 57.27 \$ 30.18	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control	UNIT UNIT UNIT UNIT UNIT	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 5006 11 16707 MAINTENANCE OF TRA	S 66.52 S 20.07 S 2,626.00	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction)	UNIT UNIT LS LF	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 5000 16707 MAINTENANCE OF TRA	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70 S 3.018 \$ 30.18 FFIC TOTAL (ROUNDED)	\$
Guardrail 705-01.01 705-06.01 705-06.01 Seeding and Sodding 801-01 801-01 801-01 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control	UNIT UNIT LS LF	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 375 5000 16707 MAINTENANCE OF TRA	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 27.26 \$ 17.70 DING TOTAL (ROUNDED) \$ 30.18 \$ 57.27 \$ 30.18	\$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings 716-13.07	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction)	UNIT UNIT LS LF	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 375 5000 16707 MAINTENANCE OF TRA	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 1.770 S 22.31 \$ 3.18 \$ 1.770 S 3.0.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction)	UNIT UNIT LS LF	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 500E 11 16707 MAINTENANCE OF TRA	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70 S 22.31 \$ 17.70 S 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-0.02 Signs Not Listed Pavement Markings 716-13.07 Fencing	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction)	UNIT UNIT LS LF	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 500E 11 16707 MAINTENANCE OF TRA	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 1.770 S 22.31 \$ 3.18 \$ 1.770 S 3.0.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings 716-13.07	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction)	UNIT UNIT UNIT LS LF	1362 13 500 375 375	12.76 -9	100 1375 4 GUARD 500 375 375 5006 11 16707 MAINTENANCE OF TRA 12.3 PAVEMENT MARK	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70 S 22.31 \$ 17.70 S 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction) Spray Thermo P. M. (40 mil 6")	UNIT UNIT UNIT LS LF	1362 13 500 375 375 1 243	12.76 -9	100	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70 S 30.18 \$ 30.18 SFIC TOTAL (ROUNDED) \$ 30.18 COUNDED \$ 1,237.50 ROUNDED \$ 1,237.50 ROUNDED	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction) Spray Thermo P. M. (40 mil 6")	UNIT UNIT UNIT LS LF	1362 13 500 375 375 1 243	12.76 -9	100	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 12.70 \$ 17.70 \$ 17.70 \$ 30.18 \$ 30.18 \$ 47.70 \$ 30.18 \$ 47.70 \$ 30.18 \$ 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 30.1	\$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800 \$ 13,622,77 \$ 8,361.81 \$ 6,633.98 \$ 28,700 \$ 10,800 \$ 10,800 \$ 10,800 \$ 15,221.25 \$ 15,300
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings 716-13.07 Fencing Rip-Rap 709-05.05	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction) Spray Thermo P. M. (40 mil 6")	UNIT UNIT UNIT LS LF	1362 13 500 375 375 1 243	12.76 -9	100 1375 4 GUARD 500 375 375 375 5000 16707 MAINTENANCE OF TRA 1 1 12.3 PAVEMENT MARK FEN. 800 RAP & SLOPE PROTECT	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 12.70 \$ 17.70 \$ 17.70 \$ 30.18 \$ 30.18 \$ 47.70 \$ 30.18 \$ 47.70 \$ 30.18 \$ 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 5 30.18 \$ 30.1	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings 716-13.07 Fencing Rip-Rap 709-05.05 Clearing and Grubing	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction) Spray Thermo P. M. (40 mil 6")	UNIT UNIT UNIT LS LF	1362 13 500 375 375 1 243	12.76 -9	100 1375 4 GUARD 500 375 375 375 5000 16707 MAINTENANCE OF TRA 1 1 12.3 PAVEMENT MARK FEN. 800 RAP & SLOPE PROTECT	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 1.770 S 22.31 \$ 30.18 \$ 41.70 S 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 5 30.18 \$ 1,237.50 \$ 10.70 \$	\$ \$
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Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings 716-13.07 Fencing Rip-Rap 709-05.05 Clearing and Grubing	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITHOUT MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction) Spray Thermo P. M. (40 mil 6")	LF EA UNIT UNIT UNIT UNIT LS LS LS LM	1362 13 500 375 375 1 243	12.76 -9 -9 16464	IGHTING & SIGNALIZATION 100 1375 4 GUARD 500 375 375 SODE 116707 MAINTENANCE OF TRA 12.3 PAVEMENT MARKE FEN 800 RAP & SLOPE PROTECT CLEAR AND GRUBE CROSSING OR SEPARATION	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 12.31 \$ 17.70 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 5 30.18 \$ 1,237.50 \$ 39.85 \$ 100 TOTAL (ROUNDED)	\$ \$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800 \$ 13,622,77 \$ 8,361.81 \$ 6,633.93 \$ 28,700 \$ 28,700 \$ 10,800 \$ 10,800 \$ 10,800 \$ 15,221.25 \$ 15,300 \$ \$ 31,880.00 \$ 31,900.00 \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings 716-13.07 Fencing Rip-Rap 709-05.05 Clearing and Grubing Railroad At-Grade Crossing Utilities Commonwealth Commonwealth Commonwealth Commonwealth Clearing and Grubing Railroad At-Grade Crossing Clearing and Grubing Cleari	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction) Spray Thermo P. M. (40 mil 6") Machined Rip-Rap (Class A-3)	LF EA UNIT UNIT UNIT UNIT LS LS LS LM	1362 13 500 375 375 375 1 243	12.76 -9 -9 16464	IGHTING & SIGNALIZATION 100 1375 4 GUARD 500 375 375 SODE 116707 MAINTENANCE OF TRA 12.3 PAVEMENT MARKE FEN 800 RAP & SLOPE PROTECT CLEAR AND GRUBE CROSSING OR SEPARATION	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70 S 30.18 \$ 30.18 SFIC TOTAL (ROUNDED) \$ 30.18 CE TOTAL (ROUNDED) \$ 1,237.50 NGS TOTAL (ROUNDED) \$ 39.85 SION TOTAL (ROUNDED) \$ 39.85 SION TOTAL (ROUNDED)	\$ \$
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-02 Signs Not Listed Pavement Markings 716-13.07 Fencing Rip-Rap 709-05.05 Clearing and Grubing Railroad At-Grade Crossing Utilities N/A Right-of-Way	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) SEEDING (WITH MULCH) SEEDING (WITH MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction) Spray Thermo P.M. (40 mil 6") Machined Rip-Rap (Class A-3) Machined Rip-Rap (Class A-3)	LF EA UNIT UNIT UNIT LS LS LS LS LM LM LM LM LM	1362 13 500 375 375 1 243 1	12.76 -9 -9 16464	100 1375 4 GUARD 500 375 375 375 375 SODE 116707 MAINTENANCE OF TRA 1 12.3 PAVEMENT MARK FEN 800 -RAP & SLOPE PROTECT CLEAR AND GRUBE CROSSING OR SEPARA	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 22.31 \$ 17.70 \$ 12.31 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 12.71 \$ 5 30.18 \$ 1.70 \$ 30.18 \$ 1.70 \$ 30.18 \$ 1.70 \$	\$ \$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800 \$ 13,622.77 \$ 8,361.81 \$ 5 6,533.98 \$ 28,700 \$ 144,399.90 \$ 504,213.64 \$ 10,800 \$ 10,800 \$ 15,221.25 \$ 15,300 \$ \$ 15,221.25 \$ \$ 19,000.00
Guardrail 705-01.01 705-06.01 705-06.01 705-06.01 705-06.20 Seeding and Sodding 801-01 801-01.07 801-02 Maintenace of Traffic N/A 712-02.02 Signs Not Listed Pavement Markings 716-13.07 Fencing Rip-Rap 709-05.05 Clearing and Grubing Railroad At-Grade Crossing Utilities N/A	W Beam GR (Type 2) Mash TL3 Tangent Energy Absorbing Term Mash TL-3 SEEDING (WITH MULCH) TEMPORARY SEEDING (WITH MULCH) SEEDING (WITH MULCH) Traffic Control INTERCONNECTED PORTABLE BARRIER RAIL Signs (Construction) Spray Thermo P. M. (40 mil 6") Machined Rip-Rap (Class A-3)	LF EA UNIT UNIT UNIT LS LS LS LS LM LM LM LM LM	1362 13 500 375 375 375 1 243	12.76 -9 -9 16464	100 1375 4 GUARD 1375 14 100 375 375 375 SODE 11 16707 MAINTENANCE OF TRA 12.3 PAVEMENT MARK FEN 800 RAP & SLOPE PROTECT CLEAR AND GRUBE CROSSING OR SEPARAT 0.05 UTILITI	\$ 66.52 \$ 20.07 \$ 2,626.00 RAIL TOTAL (ROUNDED) \$ 27.26 \$ 12.31 \$ 17.70 \$ 30.18 \$ 30.18 \$ 30.18 \$ 30.18 \$ 5 30.18 \$ 1,237.50 \$ 39.85 \$ 100 TOTAL (ROUNDED)	\$ \$ 6,651.84 \$ 27,596.25 \$ 10,504.00 \$ 44,800 \$ 13,622.77 \$ 8,361.81 \$ 5 6,533.98 \$ 28,700 \$ 144,399.90 \$ 504,213.64 \$ 10,800 \$ 10,800 \$ 15,221.25 \$ 15,300 \$ \$ 15,221.25 \$ \$ 19,000.00

	SITE VISIT ATTENDEES				
Name	Organization	Phone	Email		
Michael Cloud	TDOT - STID	615-532-7696	michael.cloud@tn.gov		
Michael Gilbert	TDOT - STID	615-741-0772	michael.gilbert@tn.gov		
David Duncan	TDOT - STID	615-532-6131	david.duncan@tn.gov		
Alan Wolfe	R2 - Traffic	423-510-1139	Alan.Wolfe@tn.gov		
Chester Sutherland	R2 - ETO	423-510-1229	Chester.Sutherland@tn.gov		
Marykate Collins	R2 - Traffic	423-510-1139	marykate.collins@tn.gov		
Ann Casseus	R2- Survey	423-510-1233	Ann.Casseus@tn.gov Jackson.Collette@tn.gov		
Jackson Collette	R2- Traffic	423-510-1139			
Tami Johnson-Praino	R2 - Survey	423-510-1233	<u>Tami.Joh</u>	nson-Praino@tn.gov	



North of Bridge Facing south from Shellmound Rd



Northern Edge of Bridge



Closeup of damage under bridge



Closeup of damage under bridge



Underside of bridge looking east



Underside of bridge looking west (featuring utilities)



South edge of bridge from Shellmound Rd



Drainage feature on Shellmound Rd



Eastern Approach Looking West



On Bridge Looking North



On Bridge Looking South



Western Approach Looking East

CI	HECK LIST OF DETERMINANTS FOR LOCATION STUDY						
	facilities or ESE categories are located within the project area or nk opposite the item. Where more than one alternate is to be coration in the blank.						
Agricultural land u	sage	\checkmark					
	Airport (existing or proposed)						
3. Commercial area, shopping center							
4. Floodplains							
5. Forested land							
6. Historical, cultural, or natural landmark							
7. Industrial park, fac	ctory						
8. Institutional usage	es						
a. School or other educational institution							
	er religious institution (Cemetery)						
· ·	· · · · · · · · · · · · · · · · · · ·						
	g, e.g., fire station						
e. Defense installation							
9. Recreation usages							
a. Park or recreational area							
b. Game preserve or wildlife area							
10. Residential establishment							
11. <u>Urban area, town,</u>	city, or community						
12. Waterway, lake, p	ond, river, stream, spring						
Permit required:	Coast Guard						
·	Section 404						
	TVA Section 26a review						
	NPDES						
	Aquatic Resource Alteration						
13. Other		_					
14. Location coordinated with local officials							
15. Railroad crossings							
16. Hazardous materials site							

PIN 130900.00

I-24

Marion County

Region 2

NEPA Comments

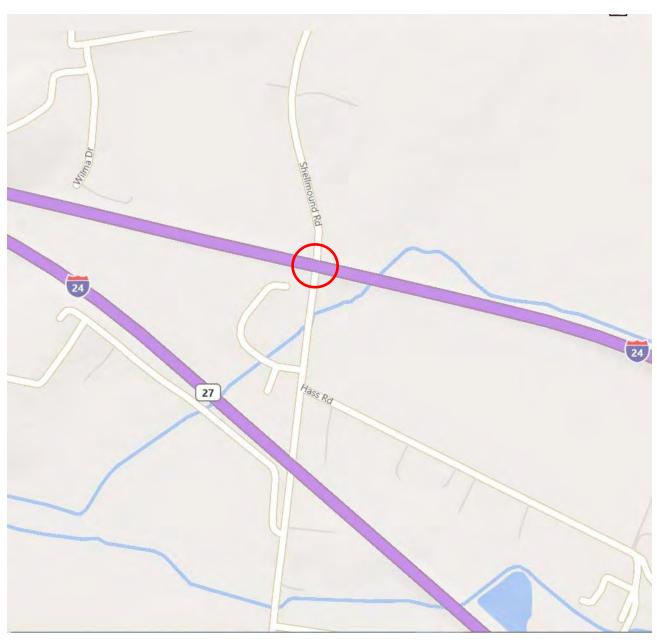
If they're taking 2.5 acres of ROW, this project will be a D-List and will require and additional 4-weeks for preparation (18-weeks in total).

On the southwest corner of the bridge, it looks like there may be one relocation of a business, CCR Heavy Equipment. The proposed ROW gets close to a large building of CCR.

TENNESSEE DEPARTMENT OF TRANSPORTATION STRATEGIC TRANSPORTATION INVESTMENTS DIVISION

PROJECT	NO.: 58	8100-0186-44			ROUTE:	I-24 WESTBOUND					
COUNTY: MARION				CITY:	CITY:						
PROJECT	PIN NUM	IBER: 130	900.00			_					
PROJECT	DESCRIE	PTION: BI	RIDGE OV	ER SI	HELLMO	UND ROAD	@ L.M. 2	2.65.			
DIVISIO	N REQ	UESTING	<u>::</u>			DAMEMEN	T DECL	CNI	Г	╗	
MAINTE	NANCE			٦		PAVEMENT DESIGN					
S.T.I.D.	NANCE] 1			STRUCTURES SURVEY & ROADWAY DESIGN				
	EVEI OD	MENT & A	DM E	1		TRAFFICS			_	<u> </u>	
PUBLIC 7				1		OTHER	SIONAL	DESIGN	`	\exists	
		& ALKO. ROGRAMME		JNICT T	DUCTION				∟		
		NG DATE:	DIORC	JNS1.	KUC 1101	N. <u>2020</u>				_	
TROJECTI		ING DATE.								<u> </u>	
TRAFFI	C ASSI	GNMENT	<u>:</u>								
							DES	SIGN	DES	SIGN	
							ROADWAY AVERAGE				
BASE YEAR		DESIGN YEAR			 		UCKS	DAILY LOADS			
AADT	YEAR	AADT	DHV	%	YEAR	DIR.DIST.	DHV	AADT	FLEX	RIGID	
27,400	2026	32,880	2,630	8	2046	60-40	20	30			
REQUEST	ED BY:	NAME	MICHA	EL C	LOUD	<u> </u>	l	DATE	4/26/21		
•		DIVISION S.T.I.D.							_		
		ADDRESS	1000 J.	K. PC	LK BUIL	DING					
			NASHV	/ILLE	R TN 372	243					
REVIEWED BY:						DATE		<u></u>			
TRANSPORTATION MANAGER 1											
	SUITE 1000, JAMES K. POLK BUILDING										
APPROVE	APPROVED BY: TONY ARMSTRONG Tony Armstrong DATE 4/26/2021					<u>!1 </u>					
	TRANSPORTATION MANAGER 2 SUITE 1000, JAMES K. POLK BUILDING										
		SUITE 1000,	JAIVIES K. I	OLK	DUILDING	J					
COMMI	ENTS:										

THIS TRAFFIC IS BASED ON A 2019 CYCLE COUNT. THE DESIGN YEAR TRAFFIC IS BASED ON GROWTH RATE FROM THE ADAM COMPUTER PROGRAM.



Marion County

I-24 Westbound Bridge over

Shellmound Road @ L.M. 22.65