

Team Lead: Nathan Bedford, Inspection Date: 11/04/2024



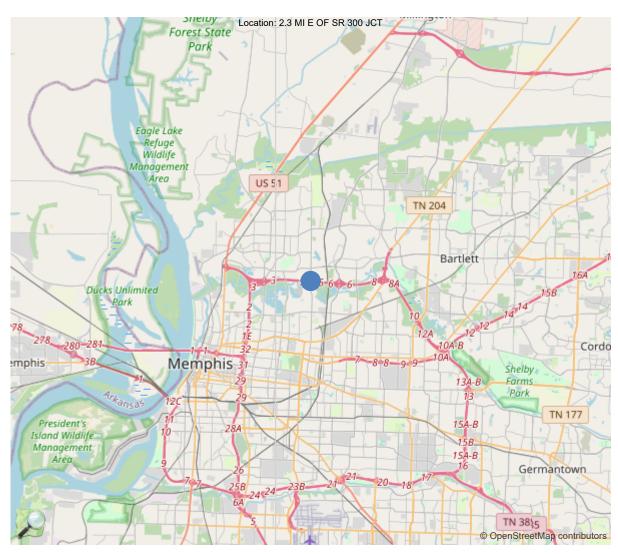
Latitude:35.19178, Longitude:-89.97589

Region 04, 79 - Shelby County

Team Leader: Nathan Bedford

Inspectors: Jacob Seager, Tonjuanita James, Jacob Castellaw, Shayne Hayes, Ty Patrick





I-40 Crossing I-40 WB / N HOLLYWOOD ST 35.19178, -89.97589



Region: 04, County: 79 - Shelby

Team Lead: Nathan Bedford, Inspection Date: 11/04/2024

90 - LAST INSPECTION DATE					/2024
10 - MIN. V.C. OVER DECK 99 (ROADWAY + SHOULDERS)					FT.
	I. V.C. OVE DES SHOU	99	9.99	FT.	
36 - TRAI	FFIC SAFE	TY FEATUR	RES		
Br. Rail	Trans.	Appr. Rail	Termi	nal	SPEED LIM.
1	0	0	1		65
41 - STR	C OPEN/C	LOSED/POS	TED		<u> </u>
58 - DEC	K			7	7
59 - SUPI	ERSTRUC	TURE		(<u> </u>
60 - SUB	STRUCTU	RE		(<u> </u>
61 - CHA	NL/CHANI	PROTECTI	ON	1	<u> </u>
62 - CULVERT AND RETAIN WALL					<u> </u>
71 - WATERWAY ADEQUACY					1
72 - APP	ROACH R	MENT	8	3	
E24 OV	EDALL CO		2	Fair	

2 - Fair

17 - LONGITUDE

-89.975889

- N NOT APPLICABLE
- 9 EXCELLENT CONDITION
- 8 VERY GOOD CONDITION NO PROBLEMS NOTED.
- 7 GOOD CONDITION SOME MINOR PROBLEMS.
- 6 SATISFACTORY CONDITION MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
- 5 FAIR CONDITION ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
- 4 POOR CONDITION ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
- 3 SERIOUS CONDITION LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
- 2 CRITICAL CONDITION ADVANCED
 DETERIORATION OF PRIMARY STRUCTURAL
 ELEMENTS. FATIGUE CRACKS IN STEEL OR
 SHEAR CRACKS IN CONCRETE MAY BE
 PRESENT OR SCOUR MAY HAVE REMOVED
 SUBSTRUCTURE SUPPORT. UNLESS
 CLOSELY MONITORED IT MAY BE
 NECESSARY TO CLOSE THE BRIDGE UNTIL
 CORRECTIVE ACTION IS TAKEN.
- 1 "IMMINENT" FAILURE CONDITION MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE.
- 0 FAILED CONDITION OUT OF SERVICE AND BEYOND CORREC

521 - OVERALL CONDITION

16 - LATITUDE

35.191778



IDE	IDENTIFICATION					
(1) State Names	47 - Tennessee					
(8) Structure Number	79100400074					
(5) Inventory Route	1					
(2) Highway Agency District	Region 4					
(3) County Code	79 - Shelby					
(4) Place Code (6) Features Intersected	48000					
(7) Facility Carried	I-40 WB / N HOLLYWOOD ST					
(9) Location	2.3 MI E OF SR 300 JCT					
(11) Mile Point	7.510 mi					
(12) Base Highway Network	Yes					
(13) LRS Inventory Rte & Subrte	7910040001					
(16) Latitude	35.191778					
(17) Longitude	-89.975889					
(98) Border Bridge State Code						
(99) Border Bridge Structure No.						
	TYPE AND MATERIAL 16					
(43) Main Structure Type Material	1 - Concrete					
Type	6 - Box Beam or girders - Single or Spread					
(44) Approach Structure Type	00					
Material	0 - Other / None					
Туре	0 - Other / None					
(45) No. of Spans in Main Unit	1					
(46) No. of Approach Spans	0					
(107) Deck Structure Type	1 - Concrete Cast-in-Place					
(108) Wearing Surface/Protectiv						
Type of Wearing Surface	6 - Bituminous					
Type of Membrane Type of Deck Protection	0 - None 0 - None					
	AND SERVICE					
(27) Year Built	1975					
(106) Year Reconstructed	0					
(42) Type of Service	11					
On	1 - Highway					
Under	1 - Highway, with or without pedestrian					
(28) Lane						
On						
	4					
Under	6					
Under (29) Average Daily Traffic	6 95722					
Under (29) Average Daily Traffic (30) Year of ADT	6 95722 2021					
Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT	6 95722 2021 8 %					
Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length	6 95722 2021 8 % 1 mi					
Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEO	6 95722 2021 8 % 1 mi					
Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length	6 95722 2021 8 % 1 mi					
Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEO (48) Length of Maximum Span	6 95722 2021 8 % 1 mi METRIC DATA					
Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEO (48) Length of Maximum Span (49) Structure Length	6 95722 2021 8 % 1 mi METRIC DATA 125.0 ft Left 0.0 ft					
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CLASSIF	TICATION
(112) NBIS Bridge Length	Υ
(104) Highway System	1
(26) Functional Class	11 - Urban Principal Arterial
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	L - The left structure of para
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	O N/A
(105) Federal Lands Highways (110) Designated National Network	0 - N/A
(20) Toll	1 - The inventory route is par 3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	4 - Historical significance is
	DITION
(58) Deck	7
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N N
. ,	G AND POSTING
(31) Design Load	6 - MS 18+Mod / HS 20+Mod
(63) Operating Rating Method	8
(64) Operating Rating	
	ad and Resistance Factor Rating (LRF
Rating	45.36
(65) Inventory Rating Method	8 - Load and Resistance Factor
(66) Inventory Rating	
Туре	
Rating	
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
	AISAL
(67) Structural Evaluation	6
(68) Deck Geometry	
(69) Clearances, Vertical/Horizontal (71) Waterway Adequacy	
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
	IPROVEMENTS
(75) Type of Work	
(76) Length of Structure Improvement	t ft
(94) Bridge Improvement Cost	\$
(95) Roadway Improvement Cost	\$
(96) Total Project Cost	\$
(97) Year of Improvement Cost Estimate	ate
(114) Future ADT	153155
(115) Year of Future ADT	2042
INSPEC	TIONS *
(90) Inspection Date	11/04/2024
(91) Frequency	24
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	No
C: Other Special Inspection	No
·	
* The inspection date and frequenc	
the current NBI date and frequency report header for the date this inspe	
report neader for the date this inspe	schon was conducted.



PERFORMANCE EVALUATION							
Time of Day Inspected	d 1:30 PM			Weather Conditions	Sunny 81°F		
Vehicles Observed	All types						
		LI	IVE LOAD B	EHAVIOR			
Sub Horiz./ Vert. Def	` ,						
Sub Vibration	(No)						
Super Horiz./ Vert. D	, ,	-					
Super Vibration	(No)						
			APPRO	ACH			
Alignment	(Good)						
Joints	(Poor)	Approach 2 f	full of debris				
Pavement	(Poor)	Approach 18	k2 have 1/2" cra	acks and spall			
Embankment	(Good)						
Approach Drains	(Poor)	Approach 18	k2 full of debris				
		TRAF	FIC SAFET	Y FEATURES			
Bridge Railing Rating	(Fair)						
Transitions Rating	(Good)						
Guardrail Rating	(Good)						
Guardrail Terminal Rating	(Good)						
		SIG	NS POSTED	ON ROUTE			
Paddleboards		No		Weight Limit Posted	Not Needed		
Vertical Clearance (<	14'-6")	No		Gross	Tons		
Posted Height				Single-unit Vehicle	Tons		
Narrow Bridge Signs		No		Multi-unit Vehicle	Tons		
One Lane Bridge Sigr	ns	No					
Other Signs or Plaque	es			564 Assigned Bridge	Name		
	ATTACHED SIGNS						

Sign No	Location	Text on Sign	Noted Defects PURSUANT TO
79SIGN00 1143	SPAN 1 LEFT	EAST TO I40	PUBLIC RECORDS REQUEST This document is covered by 23 USC § And its production pursuant to a public





DECK					
Wearing Surface Ty	/pe Asphalt	Wearing Surface Depth 4			
Wearing Surface	(Fair)	Up to 1/8" cracks			
Deck - Structural Condition	(Good)				
Parapet	(Fair)	Hairline cracks and scaling			
		SUPERSTRUCTURE			
Beams	(Good)				
Alignment of Members	(Good)				
TEXTURE COAT					





ABUTMENTS					
Abutment Caps	(Fair)	Hairline cracks with efflorescence , impending spall			
Abutment Wings	(Fair)	1/8" cracks with efflorescence , impending spall , spalling			
Abutment Backwall	(Poor)	Spall steel abut 2 back wall			
Abutment Plumb	(Good)				
Abutment Piles	(Not Visible)				
Abutment Embankment	(Good)				
Abutment Bearing Surface	(Good)				
Abutment Slope Paving	(Good)				
		PIERS			
		BENTS			



Inspection Team's Summary

This is a one span concrete box beam bridge. The safety features include metal approach rails and concrete bridge parapets. The asphalt approach roadway has cracks up to 1/2" and potholes. The approach 2 joint is filled with debris. The asphalt wearing surface has cracks up to 1/8". The bottom deck has no problems. The concrete box beam has no problems. The abutment 2 backwall has spalling with exposed rebar. The concrete substructure has hairline cracks, efflorescence, and spalling. The minimum vertical clearance is 16'3".

General Inspection Comment

HQ notes to TL





ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Re Concrete Deck	SF	8938	8937	1	0	0
1080	Delamination/Spall/Patched Area	SF	1	0	1	0	0
510	Wearing Surfaces	SF	8688	8488	200	0	0
3220	Crack (Wearing Surface)	SF	200	0	200	0	0
(12) Elemer	nt record added 12/21/2016						
(1080-12) E	lement record added 9/28/2022						
(3220-510-1	2) Element record added 9/30/2020						
110	Re Conc Opn Girder/Beam	LF	125	125	0	0	0
(110) Eleme	ent record added 12/21/2016						
215	Re Conc Abutment	LF	143	129	14	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
(215) Eleme	ent record added 12/21/2016						
(1120-215)	Element record added 9/28/2022						
(1130-215)	Element record added 9/30/2020						
310	Elastomeric Bearing	EA	1	1	0	0	0
(310) Eleme	ent record added 12/21/2016						
331	Re Conc Bridge Railing	LF	250	228	22	0	0
1080	Delamination/Spall/Patched Area	LF	22	0	22	0	0
(331) Eleme	ent record added 12/21/2016						



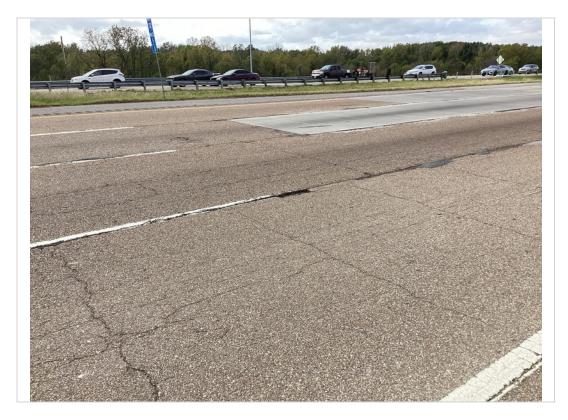
Team Lead: Nathan Bedford, Inspection Date: 11/04/2024

Equipment List

General Inspection	Tools For Measuring
Pocket knife	Yes Masonry/Wood Ruler
Sounding/chipping hammer	6' Pocket Tape
Chain drag	25' and 100' Tape
Range pole	Calipers
Yes 25' rod - depth and clearance	Yes Thermometer
Visual Aid	Carpenter's Level String and Weighted line (plumb bob)
Binoculars	
Flashlight	Special Purpose Equipment
Magnifying glass	Reach All
Hand mirror	Bucket Truck
Cleaning	Yes Traffic control Boat
Wisk broom	Sonar depth finder
Wire brush	Increment borer
Flat bladed screwdriver	Survey equipment
Hand shovel	Safety Harness
Penetrating oil (WD-40, etc.)	Climbing equipment
Tools For Access	Dye penetrant
Ladders	Drone
Rope	Air Meter
Yes Waders	Special Purpose Equipment
Machete or bush axe	
Comment	

Reach-All Approval and Comments





Approach 2 asphalt



Approach 2 asphalt





Opposite direction of route



Direction of route





Approach 1 pavement



Looking right





Approach 2 joint



Approach 2 pavement

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Back of bridge mounted sign



Bridge mounted sign upper connection



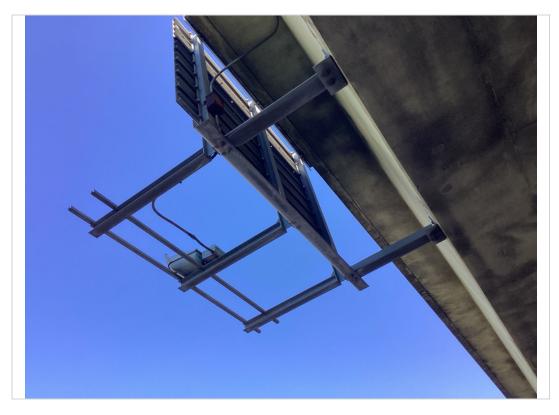


Left elevation



Front of bridge mounted sign





Back of bridge mounted sign



Bridge number







Abutment 1



Abutment 2



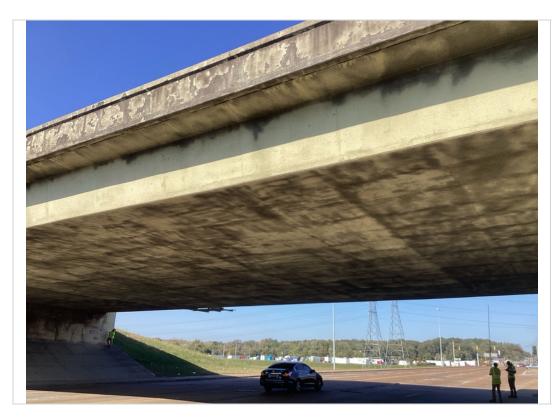


Abutment 2 spall



Abutment 2 impending spall





Bottom deck span 1



Spall steel back wall span 1





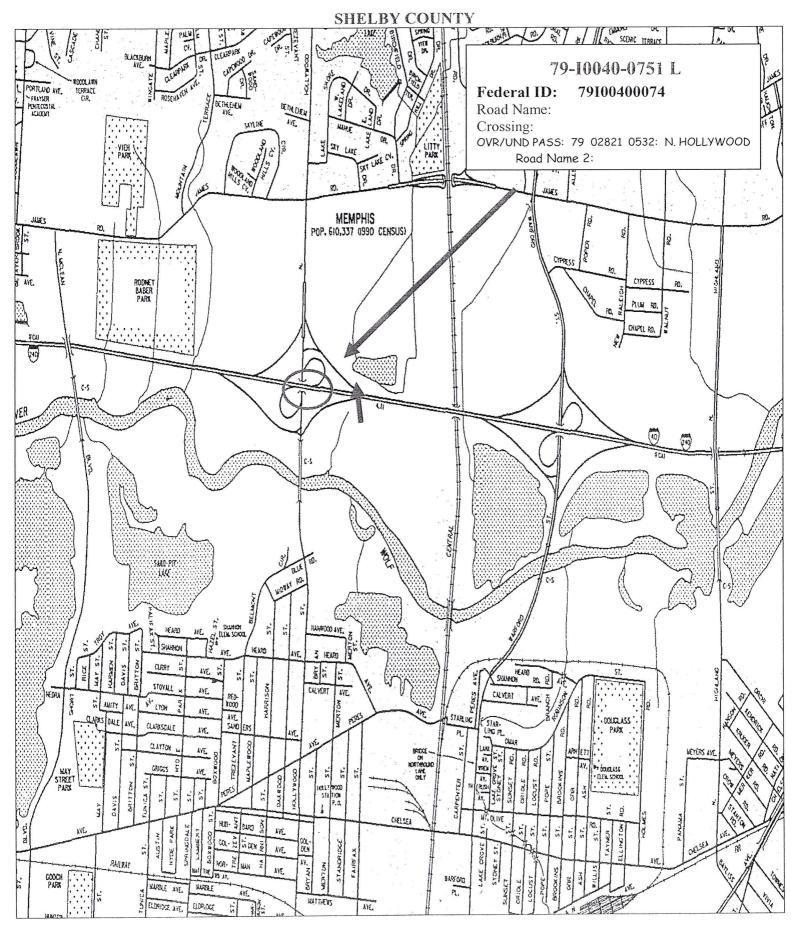
Spall steel back wall span 1

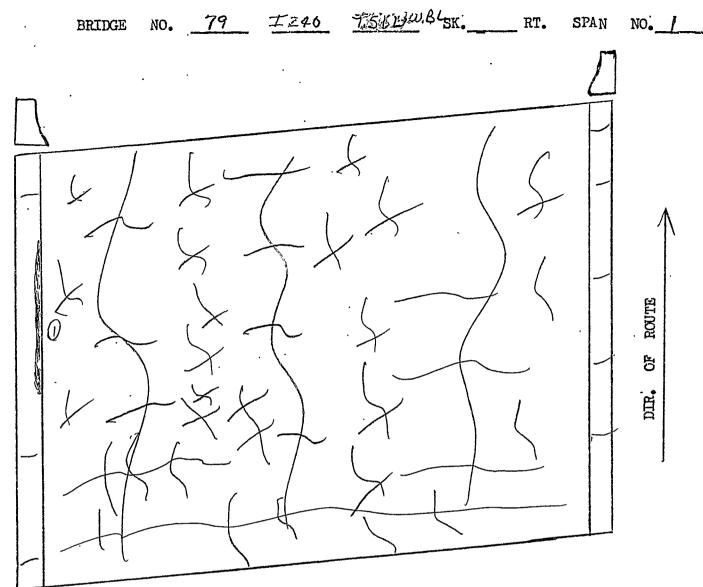




Maintenance Recommendations						
525 - Repair List # N	N_	523 - Repair List Add Date		524 - Repair List Revise Date	9/27/2022	

Date Added	Recommendation	Priority
11/04/2024	REPAIR CONCRETE PARAPET IN SPAN NO.1 LT	
08/10/2005	APPROACH GUARDRAILS ARE SUBSTANDARD	
09/28/2022	UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE NON-EXISTENT	
11/04/2024	LEVEL THE WEARING SURFACE AT BOTH APPROACHES.	
11/04/2024	CLEAR APPROACH DRAINS.	
10/30/2024	REPAIR BACKWALL AT ABUTMENT NO.2	
11/04/2024	CLEAN AND SEAL APPROACH 2 JOINT	





DECE GFPC UP to V811 cracking DScaling
10 1/L × 0.5" × 5

PARAPET GFPC

DRAINS GFPC

JOINT GFPC

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Spall Steel		(2)
D\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	LOOKING	
DIR. OF ROUTE		
' ·		

		Les .	
ELEMENT	RATING	COMMENT	
BOTTOM DECK	GFPC		
Eq	G,FPC		
Backwall	GFPC	See 1 2	
Box Bean	(9)	PL	RODUCE JBLIC RE

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44

LOOKING BACK

10 X			· 		526
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	Z List	ts/on Areast	wall I	7////	
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•					

LEMENT	RATING .	COMMENTS		• 1.
BEARING	GFPC	1210		O Spell (up so)
PAINT	G F P C	Dirty, peeling		b.
CAP	G P C	Hawline craeks what	•	
WINGS	GP P C	1/8" craeks wheth		
EMB _o ¹	G F P C			
VEG.	© F P C			
RIP-RAP	GFPC	MA		,
SLOPE PAV	1 0	NA		

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BRIDGE NO. 79 I-240 TISTE W.B.L. ABUT. NO. 2

			,	n Breast	- Jall	OSPull 1 6 11 days			
					·				
		·	•		·			,	
EMI		RATING	COMMENTS						
	BEARING PAINT	GFPC	NIA		he a	? (°	Otmp spull3	''hy	
	CAP WINGS	GFPC	1 Harr	line crac	ailes	eff,		· .	
	EMB.	Gr P C		· · ·	•				
	VEG.	G F P C		·					
	RIP-RAP	GFPC							
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					,		PRODUCED PURSUANT TO PUBLIC RECORDS REQUEST This document is covered by 23 L And its production pursuant to a p Document records request does r Waive the provisions of §407	oublic	

Page 1 of 2 INSPECTION REPORT FO	R UNDERPASS ROUTE Page No
Form BIR 3.0A	Field Report No. Date
(Rev. 9-22-98) F	Previous Report No Date
DT-1443	7.51L
Bridge No. 79100400074 Und	derpass Location No. 79 - 10040 - 0259 L
Eleven Digit No.	Co. Route Log Mile
-0- or	over/ 79 - 02821 - 0532 under
Railroad/Walkway Co. Route Lo	og Mile Co. Route Log Mile
County Shelby Structure	Name (If Named)
Year Constructed 1979	•
Year Widened Year F	Rehabilitated
GEOMETRIC FEATURES UNDER BRIDGE (*.*	ft. unless otherwise noted)
Divided Highway LEFT RDWY () RIGHT	·
Type of Wearing Surface CONCRETE (≼) A	
Width of Approach Traveled Roadway 76	ft. (Does Not Include Shoulders)
Width of Median if Divided Highway	ft.
Approach Shoulder Width	ft. Right — ft. Left
*Horizontal Clearance Under Bridge 76	ft. DIN.
-	
*Distance Between Pier Protection Guardrail and Substructure	ft. Right - ft. Left
*Width of Sidewalk Under Bridge 5,0	ft. Right ft. Left
*Minimum Vertical Clearance: 16 ft.	
*Show on Sketch	
TRAFFIC SAFETY FEATURES FOR UNDERPASS	ROUTE
	STANDARD SUB-STANDARD NON EXIST
Pier Protection Railing or Parapet GFP (C () () $(/k)$
	\mathbf{C}^{*} () ()
Approach Guardrail G F P (c () $\binom{k}{2}$
Approach Guardrail Terminal G F P	c () () $(+)$
SIGNING FOR UNDERPASS ROUTE	INCRECTORS
,) NEEDED () INSPECTORS
Vertical Clearance (<14'-6") YES () NO (() NEEDED () 1. Bedfool
•	X) NEEDED () 2. Seayer
One Lane Passage YES() NO(√) NEEDED () 2. 5 cayer 3.
Other Underpass Signs Needed	4
	↓ —— · · · ·
	5

Page 2 of 2	!	Page No
Form BIR 3.0A (Continued) (Rev. 9-22-98) DT-1443	Date	7·51 - 0 <u>7</u> 59°L
Other Signs or Plaques:	Co. Route	Log Mile
Comments Regarding any Problems with Signing:		-
BRIDGE FEATURES (*.* ft.) Bridge Skew 851f6	No. Maio Conso	_
Structure Type (Main Span) <u> </u>	No. Main Spans No. Appr. Spans	
Maximum Span Length / 15' (ft.)		
Width of Bridge Out-to-Out 7/5 (ft.)		
Width of Bridge Along Skew (ft.) Number of Lanes/Tracks on Bridge		
BRIDGE CONDITION: G F P C		
Does Potential Exist for Elements from Bridge Does Potential Exist Because of Deteriorated (. aming on moderning money)NO(/) YES()NO/Y)
Comment on any Conditions of Bridge that wo	uld Effect Roadway Beneath:	_
		-

Note: If Underpass Route is Divided Highway, Use Two of These Forms, One for Each Roadway.

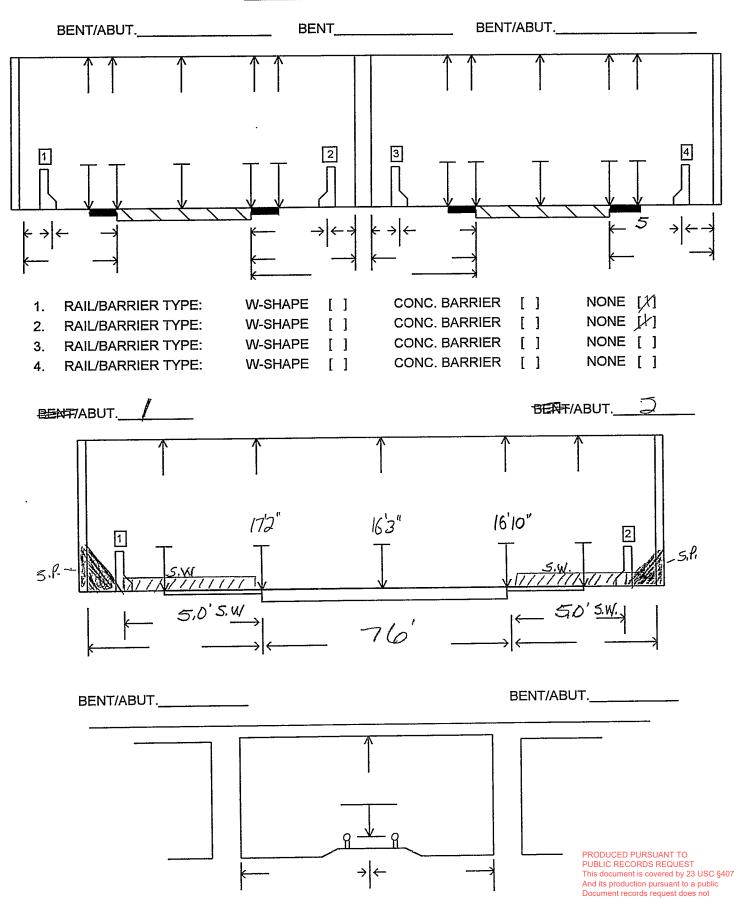
MINIMUM PICTURES REQUIRED

- 1. Elevation View of Bridge on Both Sides Showing Underpass
- 2. View Showing Both Approaches to Bridge
- 3. View Showing Safety Features4. View Showing Any Problems

DATE:

Waive the provisions of §407

LATERAL AND VERTICAL CLEARANCES



TDOT BRIDGE MOUNT SIGN INSPECTION REPORT

INSPECTION DATE:	J	1			EA	AST	
SIGN NUMBER: 79SIGN001143					40		
LOCATION: ATTACHED TO SPAN # 79-10040-7.51 L (7910040)F					
DIRECTION OF UNDERPASS ROUT	E: SB						
BASE PLATE BOLT DIAMETER: 3/4	, "						
NUMBER OF BOLTS PER BASE PLA	ATE: 2						
TOTAL NUMBER OF BOLTS ATTAC	CHING SI	GN TO E	BRIDGE: 8				
BASE BOLTS CONDITION:	G	F	P	C			
COMMENTS:							
FOUNDATION (PARAPET/BEAM)	CONDITI	ON:	G	F	P	С	
COMMENTS:							
UPPER ARMS CONDITION:	G	F	Р	С			
COMMENTS:							
LOWER ARMS CONDITION:	6	F	Р	С			
COMMENTS:							
SIGN FACE CONDITION:	(G)	F	Р	c			
COMMENTS:							
OVERALL CONDITION:	G	F	P	С			
SIGNATURE:	NB						