

**BLOUNT**
COUNTY TN

Chico C Messer <cmesser@blounttn.org>

Fwd: TDOT - Bridge Fed.ID. # 05S24980003 (Wildwood Rd. over Branch) in Blount County Requires Weight Limit Posting.

1 message

Jeffrey T Headrick <jheadrick@blounttn.org>

Sun, Jan 16, 2022 at 9:22 AM

To: Chico C Messer <cmesser@blounttn.org>, John Delozier <jdelozier@blounttn.org>, Steve McKenzie <smckenzie0710@gmail.com>

Sent from my iPhone

Begin forwarded message:

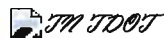
From: TDOT BridgeEval <TDOT.BridgeEval@tn.gov>
Date: January 14, 2022 at 12:53:29 PM EST
To: "Blount Co. RI Jeff Headrick (jheadrick@blounttn.org)" <jheadrick@blounttn.org>
Cc: Rebecca Hayworth <Rebecca.Hayworth@tn.gov>, Brooklyn Russell <Brooklyn.Russell@tn.gov>, TDOT BridgeEval <TDOT.BridgeEval@tn.gov>, Steven Paulson <Steven.Paulson@tn.gov>
Subject: TDOT - Bridge Fed.ID. # 05S24980003 (Wildwood Rd. over Branch) in Blount County Requires Weight Limit Posting.

Dear Sir/ Madam,

I have attached one Bridge Notification requiring the subject bridge to be properly weight limit posted.

This posting is required within 14 calendar days of the receipt of this email to remain in compliance with FHWA guidelines. **As soon as you receive this email, please respond to acknowledge receipt.**

Thank you,



Na'il Alammori | Transp. Project Spec. Sr.

Structures Division - Bridge Inspection

James K. Polk Bldg. 12th Floor

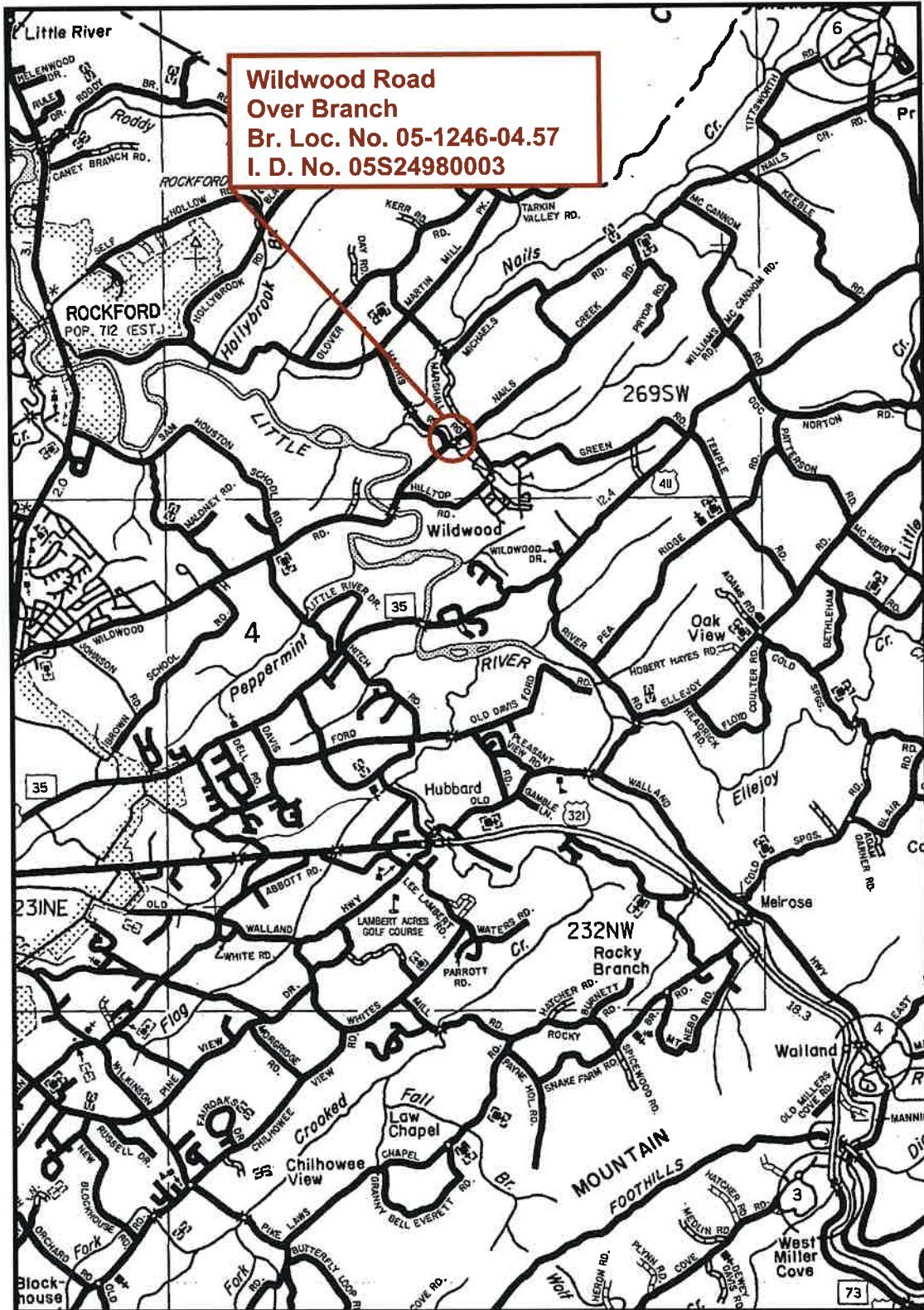
505 Deaderick St., Nashville, TN 37243

p. (615) 741- 7315

Nail.Alammori@tn.gov

tn.gov/tdot

BLOUNT COUNTY



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: BLOUNT
 CITY: N/A
 LOCATION: 5-01246-04.57-
 CO. SEQ.: 1 SPEC. CASE: 0



CROSSING: BRANCH
 FED BRIDGE NO.: 05S24980003

REVISED: 12/01/2021

FACILITY CARRIED:	NFA 1246 (SA 0517)	NUMBER OF MAIN SPANS:	2
HIGHWAY SYSTEM:	18-STP URBAN, NON-STATE SYS.	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	22 FT 7 IN	BRIDGE LENGTH (FT):	35
BRIDGE WIDTH (OUT TO OUT):	31 FT 2 IN	MAXIMUM SPAN LENGTH (FT):	14
APPROACH ROADWAY (W/SHOULDERS):	17 FT 0 IN	SKEW ANGLE (DEGREES):	45
MAINTAINED BY:	COUNTY HIGHWAY AGENCY		
MAIN SPAN MATERIAL:	CONCRETE CONTINUOUS		
MAIN SPAN DESIGN TYPE:	CULVERT (INCLUDES FRAME CULVERTS)		
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE		
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE		
INSPECTION DATE:	12/01/2021	GENERAL CONDITION:	POOR
PPRM PIN NUMBER:		STRUCTURALLY DEFICIENT:	YES
H TRUCK RATING @ INV.:	15 TONS	SUFFICIENCY RATING:	42.9

No.	RECOMMENDATIONS	REPAIR DATE	REPAIRED BY
1.	PATCH BOTTOM OF DECK SPAN 1 & 2		
2.	PROTECT FILL BEHIND RIGHT WING ABUT 1 & 2 FROM SCOUR		
3.	REPAIR LEFT WINGWALL AT ABUTMENT NO. 2		
4.	REPAIR BREASTWALL AT ABUTMENT NO. 2		
5.	REMOVE DRIFT AT INLET		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

CLEAN & PAINT STEEL CHANNEL BEAMS UNDER CURB LINES

APPROACH GUARDRAILS ARE NON EXISTENT

BRIDGERAILS ARE SUBSTANDARD

INSTALL "NARROW BRIDGE" WARNING SIGNS AT APPROACH 1

GENERAL COMMENTS:



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 12/06/2021

Bridge Number: 05S249800031
(Includes Item 5A)
Feature Intersected: BRANCH
Evaluation Status: NO CHANGE BUT STILL EVALUATE

County: 5
Route: 01246
Special Case: 0
County Sequence: 1
Log Mile: 4.57

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES (Values for Coding Items 58, 59, 60 and 62)
90	LAST INSPECTION DATE	12/01/2021	N NOT APPLICABLE
	EARLIEST DATE OF NEXT REGULAR INSPECTION	10/02/2023	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.	9 EXCELLENT CONDITION
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
36	TRAFFIC SAFETY FEATURES		7 GOOD CONDITION - SOME MINOR PROBLEMS.
	Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT		6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	0 N N N 40		5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
41	STRC OPEN/CLOSED/POSTED	A	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
	A K P		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.
58	DECK	N	
59	SUPERSTRUCTURE	N	
60	SUBSTRUCTURE	N	
61	CHANL/CHANL PROTECTION	7	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.
62	CULVERT AND RETAIN WALL	4	
71	WATERWAY ADEQUACY	7	
72	APPROACH RDWY ALIGNMENT	8	
521	OVERALL CONDITION	POOR	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.
16	LATITUDE	17 LONGITUDE	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORREC
	N 35° 48.5550'	W 83° 52.6060'	

TEAM LEADER SIGNATURE

REVIEW DATE

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Photographs

Bridge ID#: 05S24980003

Date: 12/01/2021



APPROACH FORWARD ON LOG



VIEW ACROSS DECK (NOTE: MINOR RAVELLING)

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SIGN - NARROW BRIDGE APPROACH 2



APPROACH BACK ON LOG

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ELEVATION LEFT OUTLET



VIEW DOWNSTREAM LEFT

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CRACK W/LEACHING TOP BARREL 2 OUTLET



HEAVY CORROSION BEAM OUTLET

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Date: 12/01/2021



SPALL EXPOSED REBAR TOP BARREL 2 OUTLET



CRACK UP TO 1/2" OPEN BREASTWALL ABUTMENT 2

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SPALLS EXPOSED REBAR TOP BARREL 2 NEAR OUTLET



SPALL EXPOSED REBAR TOP BARREL 2 NEAR OUTLET

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CRACK SILL ABUTMENT 2 NEAR INLET



HONEYCOMB WING 2 RIGHT

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Bridge ID#: 05S24980003

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VIEW UPSTREAM RIGHT



ELEVATION RIGHT INLET

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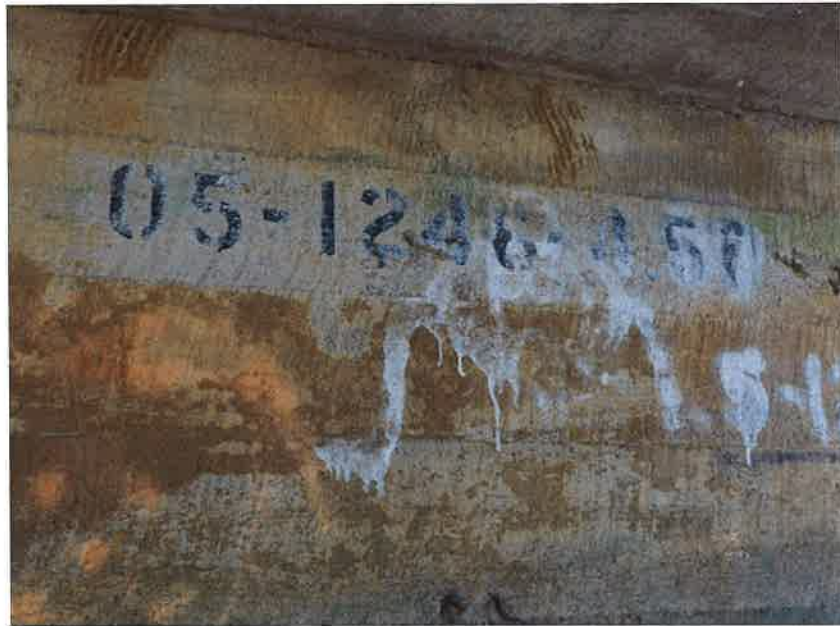
Photographs

Bridge ID#: 05S24980003

Date: 12/01/2021



CRACK UP TO 1/8" OPEN WING 1 RIGHT



BRIDGE NUMBER

Photographs

Bridge ID#: 05S24980003

Date: 12/01/2021



CRACK UP TO 1/8" OPEN BREASTWALL ABUTMENT 1



SPALLS EXPOSED REBAR TOP BARREL 1 NEAR OUTLET

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Date: 12/01/2021



SPALL EXPOSED REBAR TOP BARREL 1 NEAR OUTLET



SPALL EXPOSED REBAR TOP BARREL 1 NEAR OUTLET

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FORM BIR 3.5
03/20/78
REV. 9-22-98
DT-1540

FIELD REPORT NO. 25 DATE 12-01-21
PREVIOUS REPORT NO. 24 DATE 12-04-19
PLANS--DESIGN [] AS BUILT [X] NONE []

BRIDGE INSPECTION REPORT (CULVERTS)

BRIDGE NO. 05S24980003 BRIDGE LOCATION NO. 05 - 1246 - 04.57
ELEVEN DIGIT NO. CO. ROUTE LOG MILE

WILDWOOD ROAD OVER BRANCH
ROAD NAME STREAM NAME STRUCTURE NAME (IF NAMED)

YEAR CONSTRUCTED 1930 COUNTY BLOUNT MAINTENANCE DISTRICT NO. 19
(Estimated [X] or Actual [])

FEATURES

WEARING SURFACE--CONCRETE [] ASPHALT [X] (DEPTH= 6 in.)
TIMBER [] GRAVEL [] (DEPTH= _____ in.)
FLARED WIDTH ----- YES [] NO [X]
MEDIAN WIDTH ----- OPEN [] NONE [X] CLOSED [] (< 25 FT.)
BRIDGE SKEW 45° LT [] RT [X] UNDER 0.00' FILL NBIS LENGTH
DEPTH (ft.) (in.)

STRUCTURE TYPE CS BARRELS 2 @ 10' X 8.0' (ft.)
NO. SPAN DEPTH

WIDTHS (*. *ft.)

INSPECTORS

DECK OUT-TO-OUT: 25.3' *SEE NEXT PAGE 1. BROOKS-TL
BRIDGE LENGTH: 34.7' 2. SAUTNER
ROADWAY: RAIL-TO-RAIL 35.5' CURB-TO-CURB 3. CARICO
APPROACH ROADWAY (NOT INCLUDING SHOULDERS): 17.0' 4. _____
APPROACH SHOULDER: 0.0' RT 0.0' LT 5. _____
SIDEWALK: N/A RT N/A LT 6. _____
OTHER (EX: MEDIAN): _____ 7. _____
8. _____

SIGNING

	YES	NO	NEEDED	<u>WEIGHT LIMIT POSTED</u>	
PADDLEBOARD - - - -	[X]	[]	[]	YES []	NO [X]
BRIDGE NUMBER - - -	[]	[X]	[]	GROSS . . .	TONS
NARROW BRIDGE - - -	[X]	[]	[X]	2 AXLE	TONS
ONE LANE BRIDGE - -	[]	[X]	[]	3 OR MORE AXLE	TONS

OTHER SIGNS & COMMENTS _____

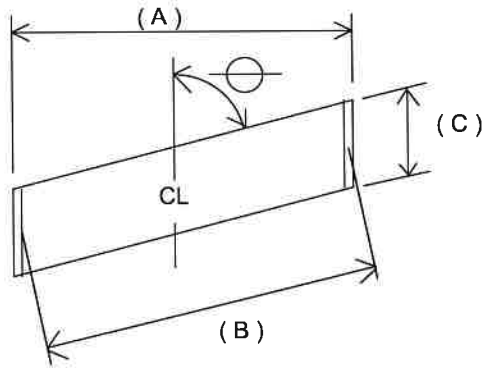
COMMENTS :

Ronald L Brooks Digitally signed by Ronald L Brooks
Date: 2021.12.08 06:40:29 -05'00'
SUPERVISING BRIDGE INSPECTOR

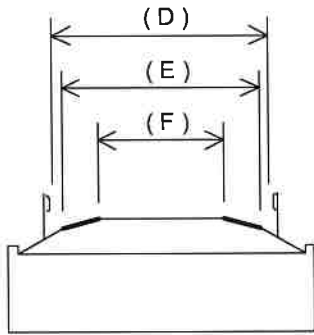
BRIDGE RATING [] [] [X] []
GOOD FAIR POOR CRITICAL

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CULVERT DIMENSIONS



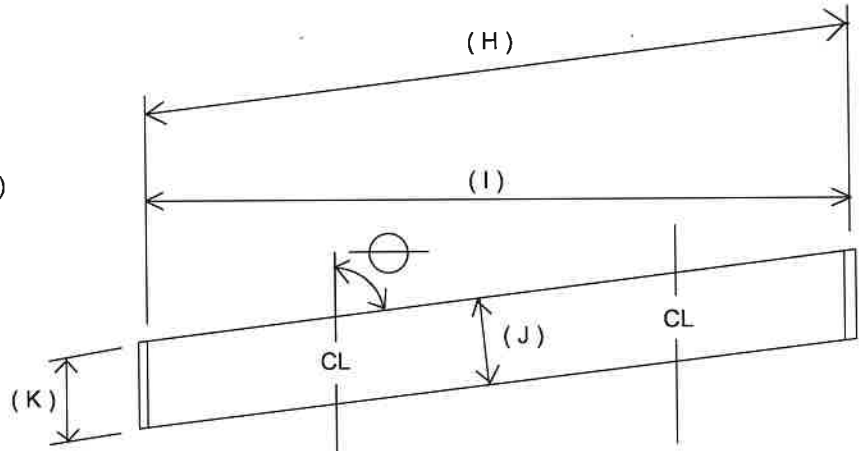
PLAN VIEW



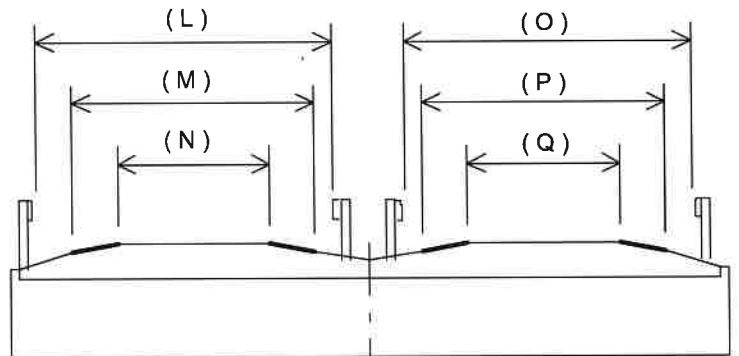
CROSS SECTION VIEW (WITH FILL)



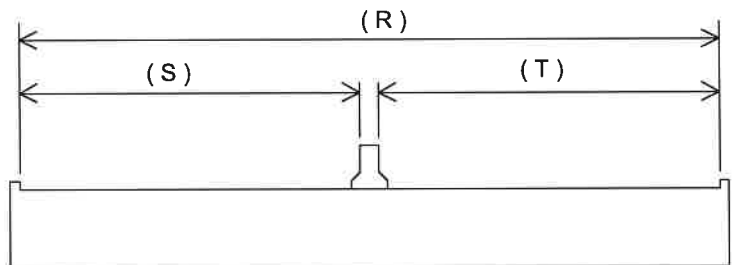
CROSS SECTION VIEW (WITHOUT FILL)



PLAN VIEW



CROSS SECTION VIEW (WITH FILL)



CROSS SECTION (WITHOUT FILL)

**.* ft.

**.* ft.

(H) _____ (I) _____ (J) _____ (K) _____

(A) 31.1' (B) _____ (C) 34.7' (L) _____ (M) _____ (N) _____ (O) _____

(D) _____ (E) _____ (F) _____ (P) _____ (Q) _____ (R) _____ (S) _____

(G) 22.7' (T) _____

FORM BIR 3.7
 Rev. 9-22-98
 DT-1424

BRIDGE LOCATION NO. 05- 1246 - 04.57
 CO. ROUTE LOG MILE

DATE: 12-01-21

TRAFFIC SAFETY FEATURES

		<u>STANDARD</u>	<u>SUB-STANDARD</u>	<u>COMMENTS</u>
BRIDGE RAILING	G F <u>P</u> C	[]	[X]	BROKEN SECTION AT LEFT SIDE
TRANSITION	G F P C	[]	[]	N/A
GUARDRAIL	G F P C	[]	[]	N/A
GUARDRAIL TERMINAL	G F P C	[]	[]	N/A

CULVERT & RETAINING WALLS

BARREL: CONCRETE	G F <u>P</u> C	SECTION OF WALL @ LT. END. ABUT. 2 CRACKED OPEN 1/2" - THIS SECTION IS NO LONGER FLUSH WITH THE OTHER, ALTHOUGH IT DOESN'T APPEAR TO HAVE MOVED FOR SOME TIME; OTHERWISE, A FEW SPALLS UP TO ONE INCH DEEP, ALONG WITH SOME SCALING & HONEYCOMB		
HEADWALL/CURBS	<u>G</u> F P C			
STEEL GIRDERS	G F <u>P</u> C	HEAVY CORROSION, FLANGES KINKED, LOSS OF SECTION @ RIVET HEADS		
WINGWALL	G <u>F</u> P C	ONE CRACK UP TO 1/8" OPEN @ RT. WING ABUT. 1		
ADEQUACY	<u>G</u> F P C			
DEBRIS/DRIFT	G F <u>P</u> C	DRIFT BUILD-UP @ INLET		
SEDIMENT	<u>G</u> F P C			
VEGETATION	<u>G</u> F P C			
CHANNEL SCOUR	<u>G</u> F P C			
DRAINS	G F P C	N/A		

APPROACHES

ALIGNMENT	<u>G</u> F P C	
PAVEMENT	<u>G</u> F P C	
EMBANKMENT	G <u>F</u> P C	MODERATE EROSION BEHIND RIGHT WINGS OF BOTH ABUTMENTS.

COMMENTS: _____

INSPECTION TEAM'S SUMMARY

Federal ID # 05S24980003

Bridge # 05-01246-04.57

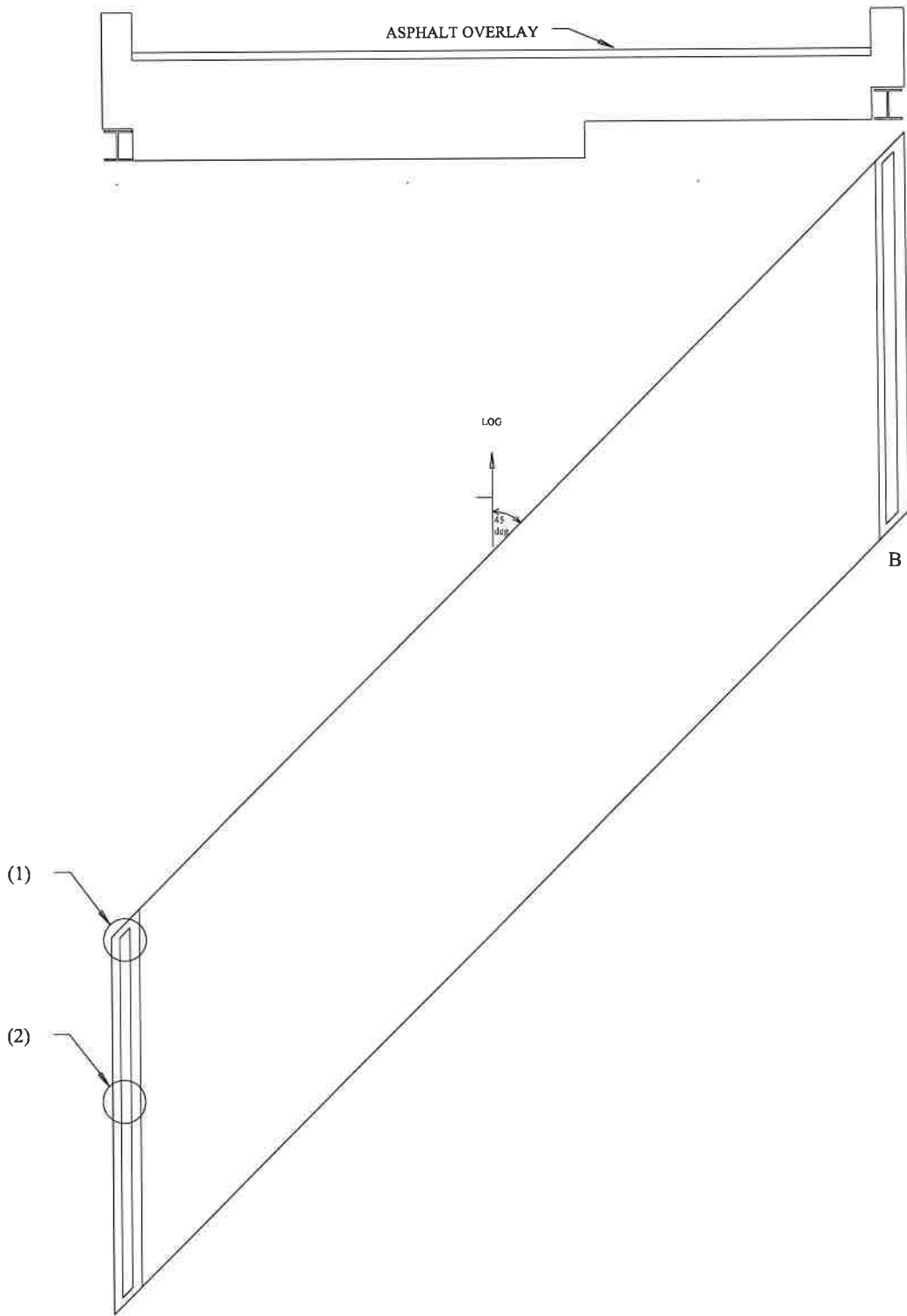
December 1, 2021

The subject bridge was inspected on the above date and found to be in generally poor condition. The original bridge, a two span concrete slab, has been widened on each end with a steel I-beam. Roadway alignment is good. Continuous asphalt overlay across the approaches and the top of the bridge is in good condition. No approach rail elements exist, and the existing bridgerail does not meet code. Paddleboard signs are in place at both ends of the bridge. One narrow bridge sign is in place at approach #2.

The abutment and pier walls of the bridge are in fair condition with scale and honeycomb. The abutment breastwall on the number 2 side is rated poor due to being cracked open up to ½” at the left end. This section at the upstream end of Abutment 2 is no longer flush with the remaining section of the abutment wall – however, this condition has existed for some time and doesn’t appear to have changed any since the previous inspection of 2016. The steel channel beams are in fair condition with heavy corrosion, and the bottom flange on one of them is slightly kinked. Bottom deck has 1” deep spalling with rebar exposed.

The channel is rated good. There is some moderate erosion behind the right wing of abutments 1 & 2. There is heavy drift build-up at the inlet side.

RB
TPS-SPV1



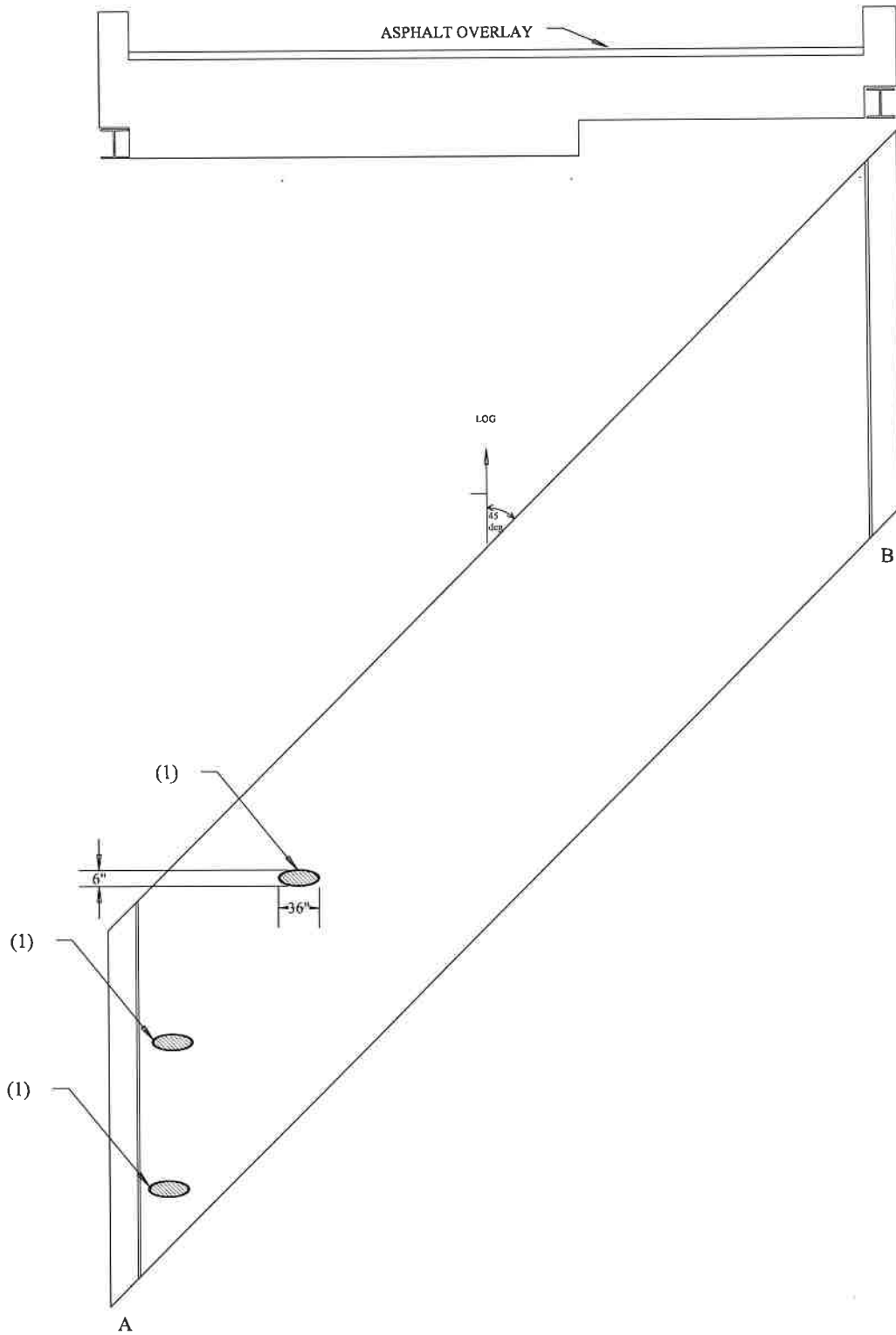
BRIDGE NO. 05-1246-04.57

12-01-21 RB

SPAN 1 & 2

WEARING SURFACE	G	
BRIDGE RAIL	P	(2) DOWNSTREAM RAIL BROKEN OVER PIER
CURBS	P	(1) DOWNSTREAM CURB BROKEN NEAR END OF BRIDGE
		OTHERWISE, AREAS OF SCALE

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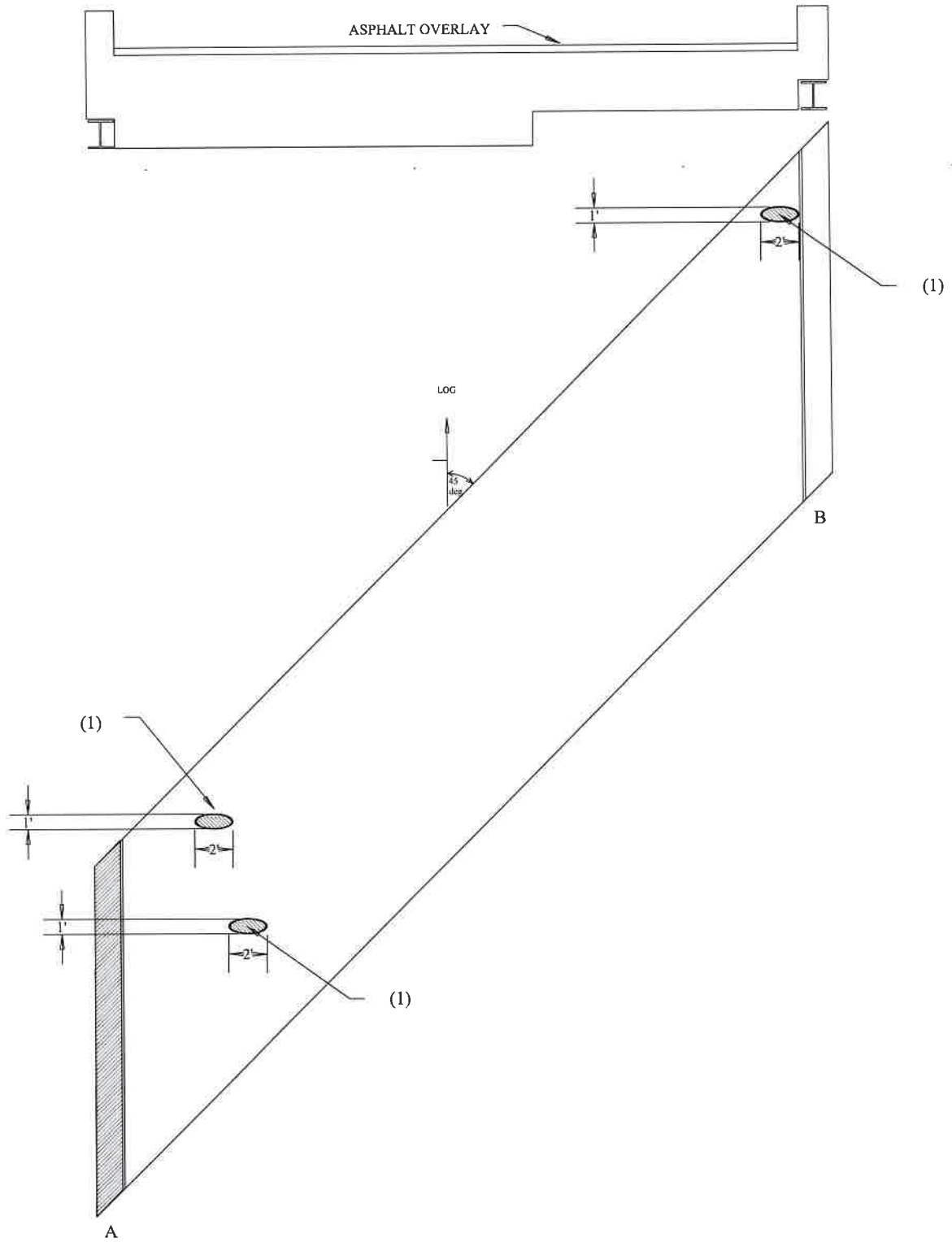
BRIDGE NO. 05-1246-04.57

12-01-21 RC

SPAN 1

BOTTOM DECK	F	(1) SPALLING UP TO 1" DP. W/EXPOSED REBAR
STEEL BEAMS	P	HEAVY CORROSION & FLAKING, NO LOSS OF SECTION

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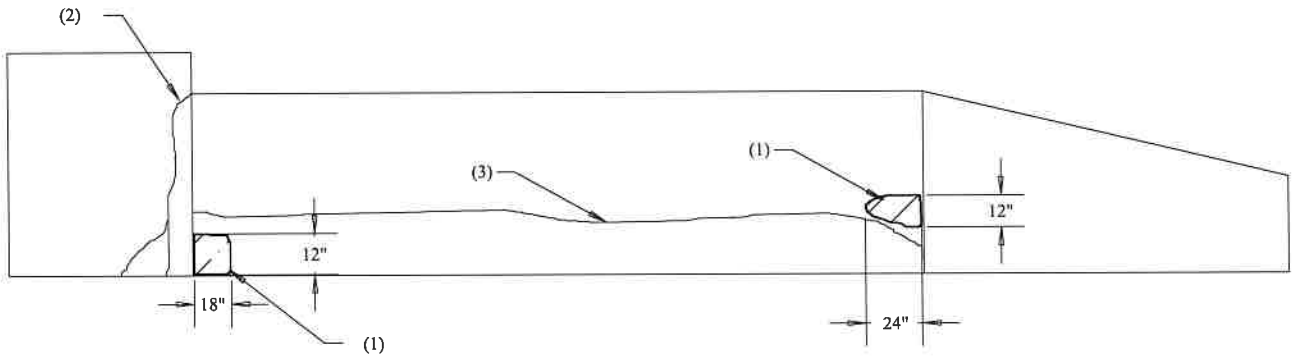
BRIDGE NO. 05-1246-04.57

12-01-21 RC

SPAN 2

BOTTOM DECK	F	(1) SPALLS 2' X 1' UP TO 1" DP. W/EXPOSED REBAR
STEEL BEAMS	P	HEAVY CORROSION & FLAKING; LOSS OF SECTION - UP TO 50% OF BOTTOM FLANGE

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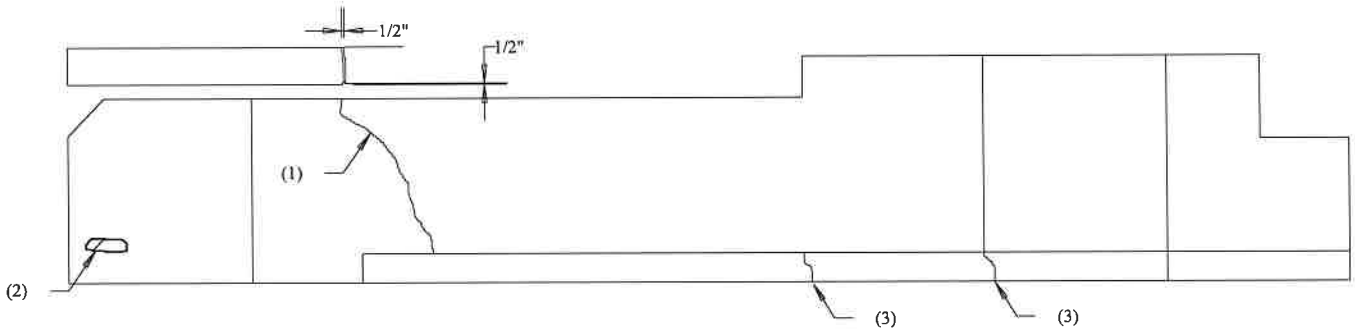
BRIDGE NO. 05-1246-04.57

12-01-21 RC

ABUTMENT NO. 1

BREASTWALL	F	(1) AREAS OF SCALE/HONEYCOMB UP TO 2" DP. (3) CRACK UP TO 1/8" OPEN ACROSS ENTIRE WIDTH
WINGS	F	(2) UPSTREAM WING: CRACKING UP TO 1/8" OPEN

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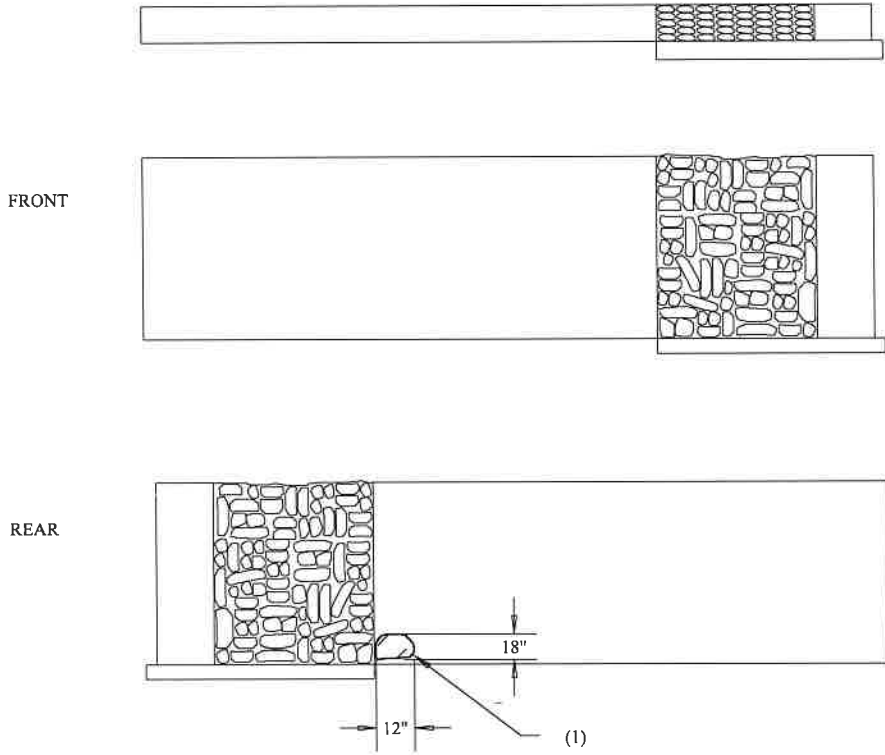
BRIDGE NO. 05-1246-04.57

12-01-21 RC

ABUTMENT NO. 2

BREASTWALL	P	(1) 1/2" OPEN CRACK - BREASTWALL SECTIONS NO LONGER FLUSH W/EACH OTHER
WINGS	F	(2) DOWNSTREAM WING: AREA HONEYCOMBED COMPLETELY THROUGH
FOOTING	F	(3) 1/8" OPEN CRACKS

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BRIDGE NO. 05-1246-04.57

12-01-21 RC

PIER NO. 1

WALL	F	(1) AREA OF SCALE/HONEYCOMB UP TO 2" DP. SOME LOSS OF MORTAR @ MASONRY SECTION
FOOTING	F	FOOTING FAIRLY SOUND, CRUDELY FORMED

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**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**STRUCTURES DIVISION
BRIDGE INSPECTION AND REPAIR OFFICE**

SUITE 1200, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TN 37243-1403
(615) 741-0776

JOSEPH GALBATO, III
INTERIM COMMISSIONER

BILL LEE
GOVERNOR

January 14, 2022

To: Jeff Headrick
Blount County
Highway Chief Admin Officer

Subject: New Weight Limit Posting Requirement
Bridge Federal ID No. 05S24980003
Bridge Location No. 5 - 01246 - 4.57
Wildwood Rd. over Branch
Blount County

We have completed the most recent evaluation of the subject bridge and have determined that the bridge is now required to be posted for a gross weight limit of 40 tons for all vehicles.

The new weight limit posting signs shall be installed by January 28, 2022. Compliance with the weight limit posting requirements can be confirmed by taking photographs of all the bridge weight posting signs and emailing these photographs to TDOT.BridgeEval@tn.gov. Each photograph must show the face of the sign clearly so that the weight limit values can be confirmed.

Posting signs shall meet the minimum requirements of the MUTCD (Manual of Uniform Traffic Control Devices). See the attached "Tennessee Standard Weight Posting Signs" for additional details.

If structural repairs are completed, the TDOT Regional Bridge Engineer should be notified so a follow-up inspection can be completed. Please email any construction plans or as-built drawings to TDOT.BridgeEval@tn.gov so that we can better evaluate the work performed.

Should you have any questions, please advise.

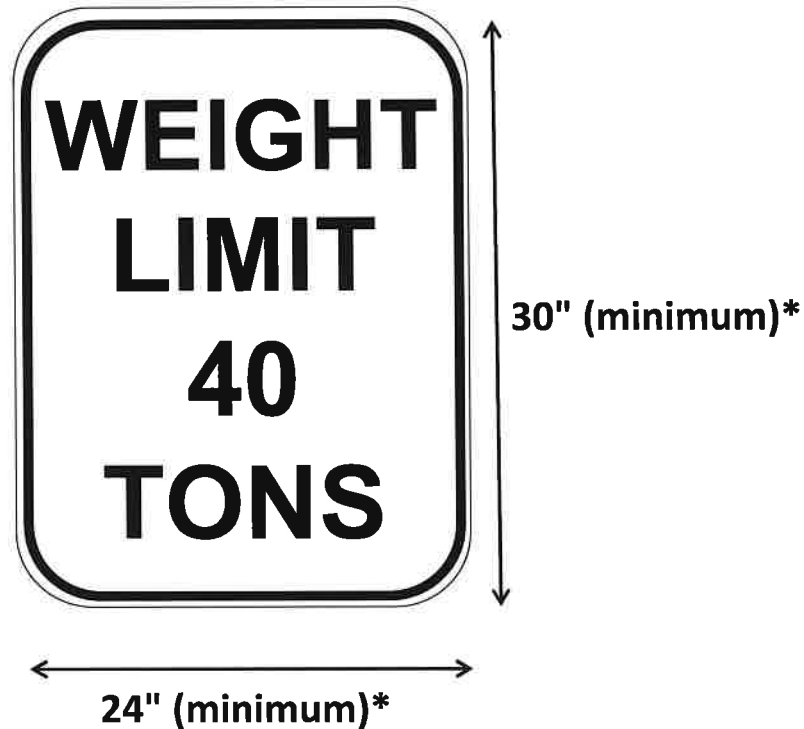
Sincerely,

A handwritten signature in cursive script that reads "Ted A. Kniazewycz".

Ted Kniazewycz, PE
Director of Structures

Tennessee Standard Weight Posting Signs Local Bridges

- o The TDOT Structures Division will determine the appropriate vehicle load limit in tons.
- o All signs must meet the requirements of the Manual on Uniform Traffic Control Devices (MUTCD).
- o The clear height of the sign shall be 5'-0" in rural areas and 7'-0" in urban areas.
- o Signs should be fabricated using flat sheet aluminum blanks 0.100" thick using reflective sheeting of Encapsulated Lens or Micro-prismatic Lens material meeting or exceeding the minimum requirements for Type B or better as specified by AASHTO M 268.
- o Dimensions are provided below as general guidance. Signs may be adjusted based on recommended weight restrictions, traffic volume, and roadway conditions.
- o All signs shall be installed and maintained to be legible, upright, and clearly visible.
- o Per MUTCD 2B.59, weight posting signs shall be located in advance of the bridge. The speed limit, road conditions and traffic should be considered when determining the appropriate location.
- o The bridge owners should also consider, weight limit signs with an advisory distance ahead legend placed at approach road intersections or other points where prohibited vehicles can detour or turn around.



REFERENCE MUTCD SIGN R12-1

*Not to scale