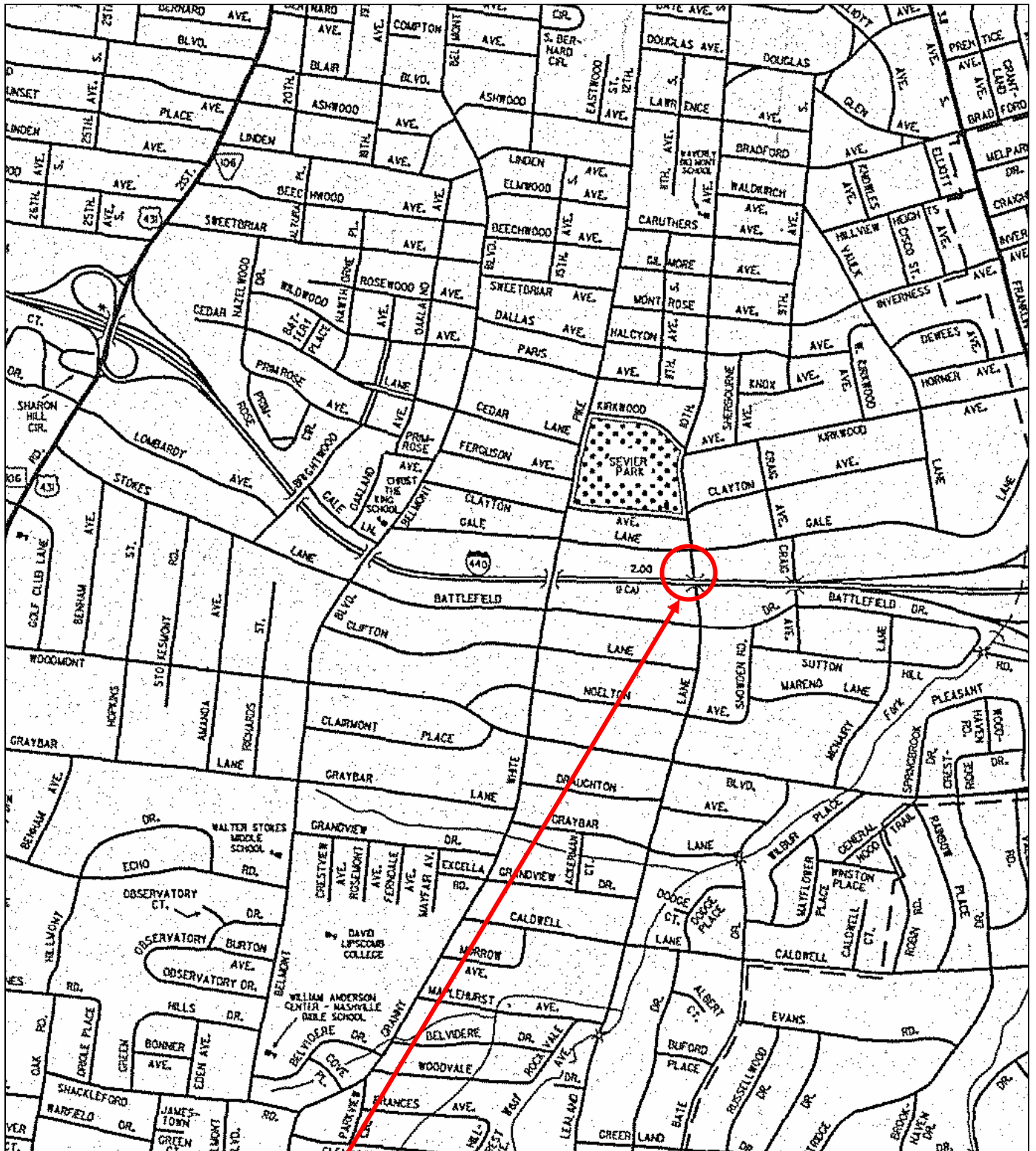


DAVIDSON COUNTY



19104400027
19-10440-4.17 RT
10440 RL/LELAND LANE

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BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department of Transportation

COUNTY: DAVIDSON
 LOCATION: 19-I0440-04.17-R
 CO. SEQ.: 1 SPEC. CASE: 0
 MILEPOST: 4.11

CROSSING: I440-RL / LELAND LANE
 FED. BRIDGE NO.: 19I04400027
 MAINT. DIST.: 19

REPAIR LIST NO.: N
 DATE ADDED:
 REVISED: 03/05/2012

FACILITY CARRIED:	I440	NUMBER OF MAIN SPANS:	1
HIGHWAY SYSTEM:	02-INTERSTATE URBAN	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	54 FT 1 IN	BRIDGE LENGTH (FT):	111
BRIDGE WIDTH (OUT TO OUT):	56 FT 1 IN	MAXIMUM SPAN LENGTH (FT):	109
APPROACH ROADWAY (W/SHOULDERS):	54 FT 1 IN	SKEW ANGLE (DEGREES):	80
MAINTAINED BY:	STATE HIGHWAY AGENCY		
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE		
MAIN SPAN DESIGN TYPE:	BOX BEAM OR GIRDERS - MULTIPLE		
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE		
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE		
INSPECTION DATE:	03/04/2016	GENERAL CONDITION:	FAIR
EVALUATION DATE:	05/08/2014	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	20 TONS	SUFFICIENCY RATING:	83.0

No.	RECOMMENDATIONS	REPAIR DATE	REPAIRED BY
1.	REPAIR RIGHT SHOULDER "A" END		
2.	REPAIR EXPANSION JOINTS		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

SEAL CRACK(S) IN DECK WEARING SURFACE

SEAL APPROACH SLABS

GENERAL COMMENTS:

REPAIRED EXPANSION JOINTS AT A & B ENDS ALSO EXPANSION APPROACH SLABS A & B ENDS USED 8 - HOURS PSI CONCRETE 6' 6" X 42" X 3" & 16' X 2' X 3" 5 - CY. CONCRETE 09/19/2009 D.B. * REPAIRED BREAKOUTS AT LOWER END OF BRIDGE DECK USED THERMACRETE MATERIALS 04/15/2010 M.H. * PATCHED HOLE IN BRIDGE DECK RIGHT LANE AT JOINT ... 12/07/2010 M.H. & D.B. * PATCHED HOLE IN BRIDGE DECK LEFT LANE LOWER END USDE CRAFTCO MATERIALS.. M.H. & D.B. 03/03/2011 # PATCHED HOLE IN BRIDGE DECK 2-RIGHT LANES LOWER END 40' X 4' X 3" USED CRAFTCO MATERIALS 12/07/08/2011 M.H. # PATCHED 2-HOLES IN BRIDGE DECK 6' X 1' X 3"& 4' X 1' X 3" USED CRAFTCO MATERIALS... 12/08/2011 M.H. # REPAIRED JOINT AT LOWER END OF BRIDGE DECK LEFT LANE 12' X 4' X 4" USED CRAFTCO MATERIALS. 12/11/2012 M.H. # REPAIRED 4-SMALL HOLES IN JOINT AT LOWER END OF BRIDGE RIGHT LANE . 12/13/2012 H.H. # REPAIRED SMALL HOLES IN BRIDGE DECK LOWER END OF BRIDGE RIGHT LANES USED CRAFTCO MATERIALS. 06/03/2014 M.H.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 03/07/2016

Bridge Number: 19I044000271
 (Includes Item 5A)

Feature Intersected: I440-RL / LELAND LANE

Evaluation Status: OTHER ITEM(S) HAVE BEEN CHANGED

County: 19

Route: I0440

Special Case: 0

County Sequence: 1

Log Mile: 4.17

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	03/04/2016	N NOT APPLICABLE
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/03/2018	
		<u> </u> / <u> </u> / <u> </u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.	9 EXCELLENT CONDITION
		<u> </u> FT. <u> </u> IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.	7 GOOD CONDITION - SOME MINOR PROBLEMS.
		<u> </u> FT. <u> </u> IN.	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
36	TRAFFIC SAFETY FEATURES		5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
	Br. Rail	1	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
	Trans.	0	
	Appr. Rail	0	
	Terminal	1	
	SPEED LIMIT	55	
	<u> </u>	<u> </u>	
41	STRC OPEN/CLOSED/POSTED	A	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.
	A K P	<u> </u>	
58	DECK	5	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.
59	SUPERSTRUCTURE	6	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.
60	SUBSTRUCTURE	7	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
61	CHANL/CHANL PROTECTION	N	
62	CULVERT AND RETAIN WALL	N	
71	WATERWAY ADEQUACY	N	
72	APPROACH RDWY ALIGNMENT	8	
521	OVERALL CONDITION	FAIR	
16	LATITUDE	N 36° 6.9520'	
17	LONGITUDE	W 86° 47.2130'	
		<u> </u> <u> </u>	

TEAM LEADER SIGNATURE

REVIEW DATE

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Photographs

Bridge ID#: 19I04400027

Date: 03/04/2016



APPROACH "A" - EBL



VIEW ACROSS TOP OF WEARING SURFACE EBL

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Date: 03/04/2016



APPROACH "B" - EBL



WEARING SURFACE "B" END W/ PATCHES & POTHOLE

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Bridge ID#: 19I04400027

Date: 03/04/2016



WEARING SURFACE "A" END W/ PATCHES



BRIDGE NO.

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Bridge ID#: 19I04400027

Date: 03/04/2016



ABUTMENT #1



UNDERSIDE VIEW H.B.B.

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Bridge ID#: 19I04400027

Date: 03/04/2016



BOX BEAM "H" W/ SPALL & EXP. REBAR



CLEARANCE VIEW RT. SIDE

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Bridge ID#: 19I04400027

Date: 03/04/2016



VIEW LOOKING SOUTH ON LEALAND AVE.



VIEW LOOKING NORTH ON LEALAND AVE

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BRIDGE INSPECTION REPORT

Page No. _____

Form BIR 3.0
(Rev. 9-22-98)
DT-0069

Field Report No. 21 Date 3/4/2016
Previous Report No. 20 Date 3/6/2014
Plans: DESIGN

Bridge No. 19I04400027
Eleven Digit No.

Bridge Location No. 19 - I0440 - 4.17 R
Co. Route Log Mile

I440 over LELAND LN
Road Name Crossing Structure Name (If Named)
Year Constructed 1985 ACTAUL County Davidson Maintenance District 31
Year Widened _____ Year Rehabilitated _____

FEATURES

Wearing Surface CONCRETE Depth _____ (in.)
Flared Width NO Median Width OPEN
Navigational Control NO Bridge Skew 80° RT
Structure Type (Main Span) HBB
Structure Type (Appr.Spans) _____
No. Main Spans 1 No. Approach Spans _____
Maximum Span Length 111' (**.* ft.)
Total Length 111' (**.* ft.)

INSPECTORS

1. HALIBURTON TL
2. VOGEL
3. BROWN
4. LOVE
5. _____
6. _____
7. _____
8. _____

WIDTHS (*.* ft.)

Deck Out-to-Out 56'
Roadway Curb/Curb 54'
Roadway Rail/Rail _____
Sidewalk Rt. _____ Lt. _____
*Approach Roadway 36'
*(Does Not Include Shoulders)
Approach Shoulder Rt. 12'
Lt. 6'

CLEARANCES

Min. Vertical Clearance over Deck _____ (ft.-in.)
Min. Vertical Under Clearance 16'10" (ft.-in.)
Min. Lateral Under Clearance Rt. 10' (*.* ft.)
Min. Lateral Under Clearance Lt. _____ (*.* ft.)

FRACTURE CRITICAL: NO
(If Yes, Include BIR 3.9)

NBIS Bridge Length (<25 ft.) OVER 25' (ft.-in.)

UNDERWATER INSPECTION

To Be Performed By: N/A Date _____

Change in Structural Condition: NO Major Repairs Made: NO BRIDGE is: OPEN

COMMENTS:

Supervising Bridge Inspector: JOHN HALIBURTON

BRIDGE RATING: FAIR

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PERFORMANCE EVALUATION

Time of Day Inspected 9:10 AM Weather Conditions CLDY 45
Vehicles Observed ALL TYPES

LIVE LOAD BEHAVIOR

Substructure	Yes/No	Comments
Horiz./ Vert. Defl.	NO	
Vibration	NO	
Superstructure		
Horiz./ Vert. Defl.	NO	
Vibration	NO	

APPROACH

	Rating	Comments
Alignment	GOOD	
Slab	FAIR	NUMEROUS 1/8" OPEN LONGIT CRACKS & SURFACE SCALE
Joints	POOR	HEAVY FILLER LOSS & BREAKOUTS
Pavement	FAIR	UNEVEN @ 'B' END W/ PATCHES. B.O. @ "A" END RT SHOULDER
Embankment	GOOD	
Drains	NA	WATER POOLING ON 'B' END

TRAFFIC SAFETY FEATURES

	Rating	Standard/ SubStandard	Comments
Bridgerailing	GOOD	STANDARD	
Transitions	GOOD	SUBSTANDARD	RUB-RAIL NON-EXISTENT @ "A" END LT
Guardrail	GOOD	SUBSTANDARD	INCORRECT BLOCKOUTS
Guardrail Terminal	GOOD	STANDARD	

SIGNING

	Yes/ No/ Needed
Paddleboards	NO
Vertical Clearance (<14'-6")	NO
Narrow Bridge Signs	NO
One Lane Bridge Signs	NO

Weight Limit Posted NO
Gross..... _____ Tons
2 Axle..... _____ Tons
3 or more Axles.. _____ Tons

Other Signs or Plaques:

Comments Regarding any Problems with Signing:

DECK

	Rating	Comments
Wearing Surface	FAIR	NUMEROUS LONGIT CRACKS 1/16" & 4' X 4' FAILED A/C PATCH 'B' END
Deck - Structural Condition	F	(BTM--N/V) SIDE-BY-SIDE BOX BEAMS. OVERHANGS GOOD
Curbs	NA	
Median	NA	
Sidewalks	NA	
Parapet	GOOD	STANDARD-SURFACE SCALE, VERT H.C.'S
Railing	NA	
Paint	NA	
Drains	NA	
Lighting Standards	GOOD	
Utilities	NA	
Joint Leakage	GOOD	
Expansion Joints	POOR	100% LOSS OF FILLER

SUPERSTRUCTURE

Bearing Devices	GOOD	
Girders or Beams	GOOD	BEAM 'H' SPALLS W/ EXP. STEEL 4" DP, BMS 'A' & 'M'- LONGIT & DIAG. CRACKS
Floor Beams	NA	
Stringers	NA	
Diaphragms	NV	
Bracing	NA	
Trusses - General	NA	
Portals	NA	
Bracing	NA	
Paint	NA	
Alignment of Members	GOOD	

TEXTURE COAT

Condition Rating	<u>FAIR</u>	Needs Spot Painting	<u>NO</u>
Overall Appearance	<u>FAIR</u>	Needs Repainting	<u>YES</u>
Staining Rating	<u>FAIR</u>	Comments	
Fading Rating	<u>FAIR</u>		
Scaling Rating	<u>FAIR</u>		

SUBSTRUCTURE

ABUTMENTS

	Rating	Comments
Caps	NA	
Breastwall	GOOD	<i>RANDOM H.C.'S UP TO 1/16"</i>
Wings	GOOD	
Backwall	NV	
Plumb	GOOD	
Footing	NV	
Piles	NV	
Embankment	GOOD	
Bearing Surface	GOOD	
Slope Paving	NA	
Rip Rap	GOOD	<i>SHOT ROCK</i>

PIERS

Caps	N/A	
Columns	N/A	
Plumb	N/A	
Footings	N/A	
Piles	N/A	
Bearing Surface	N/A	

BENTS

Caps	N/A	
Columns	N/A	
Plumb	N/A	
Footings	N/A	
Piles	N/A	
Bearing Surface	N/A	

Piles Need Replacement: NO

Piles To Be Replaced:

SUMMARY
19-I440-4.17 RT
3/4/2016

I440 Rt. Lane/Lealand Ave.
1 Span/H.B.B.

This bridge was inspected and found to be in **fair** condition. Approach alignment and embankment are good. Expansion joints on approach slabs are poor with heavy filler loss. Approach slabs are fair with cracks upto 1/8" open and surface scale. Approach roadway is poor with concrete breakouts and failing a/c patches and concrete breakouts at saw cut joint. Bridge parapet rails are good and standard with light scale and vertical haircracks. Approach guardrail and transitions at 'A' end left are good but substandard.

The concrete wearing surface is fair due to longitudinal and transverse cracks up to 1/16" open and a 4' X 4' failing patch. Expansion joints are poor due to minor breakouts and 100% loss of filler.

Beam "H" is fair due to 2' x 1' x 4" deep spall with exposed steel.

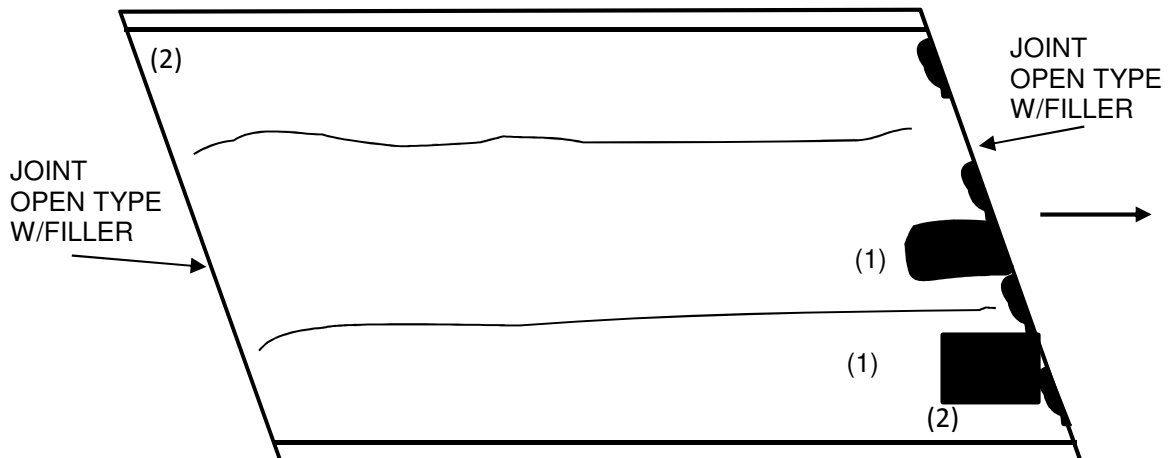
Abutments are good.

John Haliburton

Top of Deck Span No. 1

Date 3/4/2016
JH

Bridge Location No. 19 I440 4.17 RT
County Route Log Mile

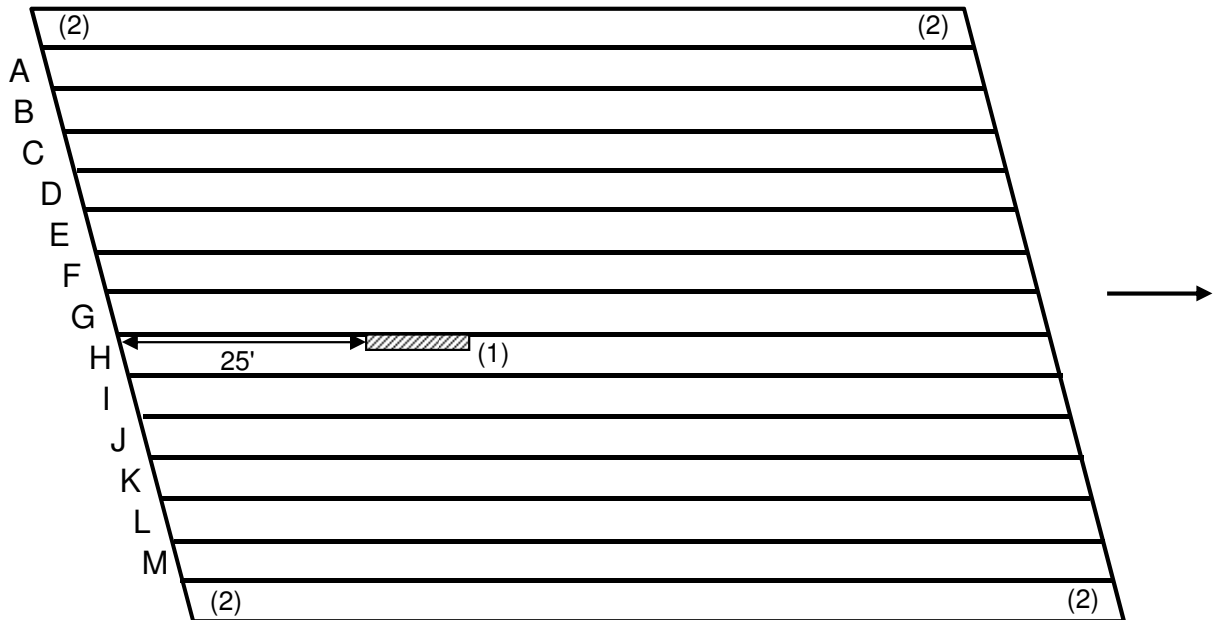


DECK	FAIR	MOD. LONGIT CRACK 1/16" OPEN & (1) PATCHES 4' X 4' AND 6' X 3'. CONC. B.O.'S @ SAW CUT JOINT 'B' END, (2) POT HOLE 2' DIA.
PARAPET	GOOD	STANDARD= SURFACE SCALE & H.L. VERT. CRACKS
JOINTS	POOR	MOD. B.O.'S AND HVY DEBRIS W/FILLER LOSS "B" END

Bottom of Slab Span No. 1

Date 3/4/2016
JB

Bridge Location No. 19 I440 4.17 RT
County Route Log Mile

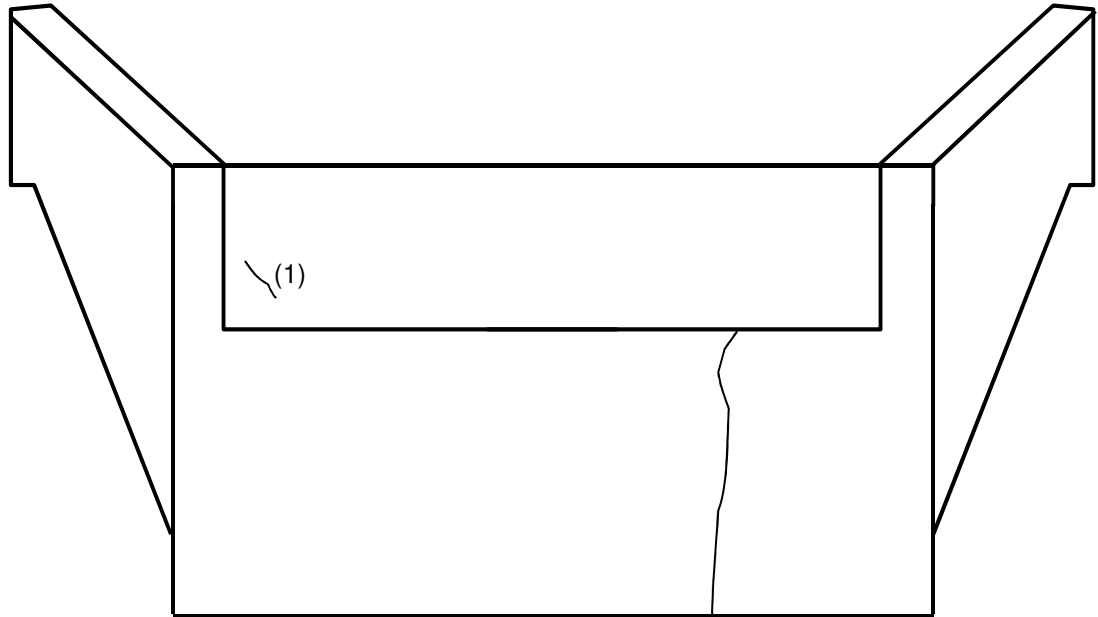


DECK	NV	
BEAMS	GOOD	(1) BEAM 'H' HAS A 1' X 2' SPALL W/ EXPOSED REBAR 4" DP
"A" & "M"	GOOD	(2) LONGIT. CRACK .010" OPEN X FULL LENGTH
"A"	GOOD	DIAG. H.C. @ ABUT #1
OVERHANGS	GOOD	

Abutment No. 1

Date 3/4/2016
JV

Bridge Location No. 19 I440 4.17 RT
County Route Log Mile

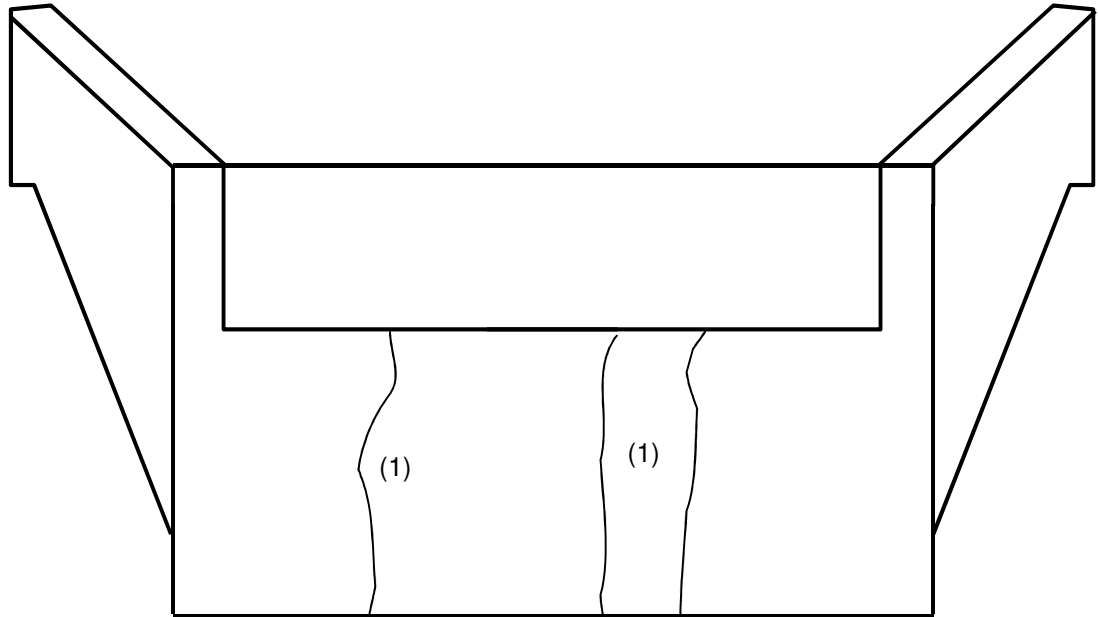


BACKWALL	GOOD	(1) DIAG. H.C. W/ EFF.
WALL	GOOD	RANDOM VERT H.C.'S
WINGS	GOOD	
BEARINGS	NV	

Abutment No. 2

Date 3/4/2016
JV

Bridge Location No. 19 I440 4.17 RT
County Route Log Mile



BACKWALL	GOOD	
WALL	GOOD	(1) VERT. CRACK UP TO 1/16" OPEN FULL HEIGHT,
WINGS	GOOD	
BEARINGS	NV	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 03/07/2016

County: 19

Route: 0C433

Special Case: 0

County Sequence: 1

Bridge Number: 19I044000272
(Includes Item 5A)

Feature Intersected: I440-RL / LELAND LANE

Log Mile: 2.70

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	03/04/2016	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/03/2018	515 (A) TYPE UNDERPASS BARRIER NONE EXISTS BUT NEEDED
		<u> / /</u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 10 IN.	Revised Barrier Type
		<u> FT. IN.</u>	(B) ADEQUACY OF BARRIER OR RAIL N
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 10 IN.	
		<u> FT. IN.</u>	(C) ADEQUACY OF TRANSITIONS N
47	TOTAL HORIZONTAL UNDERCLEARANCE	59 FT. 9 IN.	
		<u> FT. IN.</u>	(D) ADEQUACY OF TERMINALS N
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		
	Circle One: H R	<u> FT. IN.</u>	554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		
	Circle One: H R	<u> FT. IN.</u>	<u> FT. IN.</u>
		<u> FT. IN.</u>	<u> FT. IN.</u>
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE		16 LATITUDE 17 LONGITUDE
		<u> FT. IN.</u>	N 36° 6.9520' W 86° 47.2130'
			<u> <u> </u></u>
521	OVERALL CONDITION	FAIR	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
		<u> </u>	
555	COMMENTS		

TEAM LEADER SIGNATURE

REVIEW DATE

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INSPECTION REPORT FOR UNDERPASS ROUTE

Form BIR 3.0A
(Rev. 9-22-98)
DT-1443

Field Report No. 21 Date 3/4/2016
Previous Report No. 20 Date 3/6/2014

Bridge No. 19104400027 Underpass Location No. 19 - C433 - 2.70
Eleven Digit No. Co. Route Log Mile
I440 RL/LELAND LN or 19 - I440 - 0417 R over 19 - C433 - 2.70
Railroad/Walkway Co. Route Log Mile Co. Route Log Mile
 County Davidson Structure Name (If Named) _____
 Year Constructed 1985 ACTAUL
 Year Widened _____ Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE (*.* ft. unless otherwise noted)

Divided Highway NA Type of Wearing Surface ASPHALT
 Width of Approach Traveled Roadway 40' ft. (Does Not Include Shoulders)
 Width of Median if Divided Highway _____ ft.
 Approach Shoulder Width 2' ft. Right 2' ft. Left
 *Horizontal Clearance Under Bridge 60' ft.
 *Distance Between Pier Protection Guardrail and Substructure _____ ft. Right _____ ft. Left
 *Width of Sidewalk Under Bridge 5' ft. Right _____ ft. Left
 *Minimum Vertical Clearance: 16' ft. 10" in. (ft.-in.)
 *Show on Sketch _____

TRAFFIC SAFETY FEATURES

Pier Protection Railing or Parapet
 Approach Guardrail Terminals
 Approach Guardrail
 Approach Guardrail Terminal

Rating	Standard/ SubStandard Non Exist
	NONEXIST
	NONEXIST
	NONEXIST
	NONEXIST

INSPECTORS

1. HALIBURTON TL
2. VOGEL
3. BROWN
4. LOVE
5. _____
6. _____

SIGNING

	Yes/ No/ Needed
Paddleboards	NO
Vertical Clearance (<14'-6")	NO
Narrow Passage	NO
One Lane Passage	NO
Other Underpass Signs Needed	

Form BIR 3.0A (Continued)
(Rev. 9-22-98)
DT-1443

Date 3/4/2016

Underpass Location No. 19 - C433 - 2.70
Co. Route Log Mile

Other Signs or Plaques:

Comments Regarding any
Problems with Signing:

BRIDGE FEATURES (*.* ft.)

Bridge Skew <u>80 ° RT</u>	Number of Lanes/Tracks on Bridge <u>3</u>
Structure Type (Main Span) <u>HBB</u>	No. Main Spans <u>1</u>
Structure Type (Appr.Spans) _____	No. Appr. Spans _____
Maximum Span Length <u>111'</u> (ft.)	Total Length <u>111'</u> (ft.)
Width of Bridge Out-to-Out <u>56'</u> (ft.)	Right Angle to Centerline of Bridge)
Width of Bridge Along Skew _____ (ft.)	(If Unable to Measure at Right Angle to Centerline of Bridge)

BRIDGE CONDITION: FAIR

Does Potential Exist for Elements from Bridge Falling on Roadway Beneath? NO

Does Potential Exist Because of Deteriorated Condition or Failure of Major Members? NO

Comment on any Conditions of Bridge that would Effect Roadway Beneath:

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

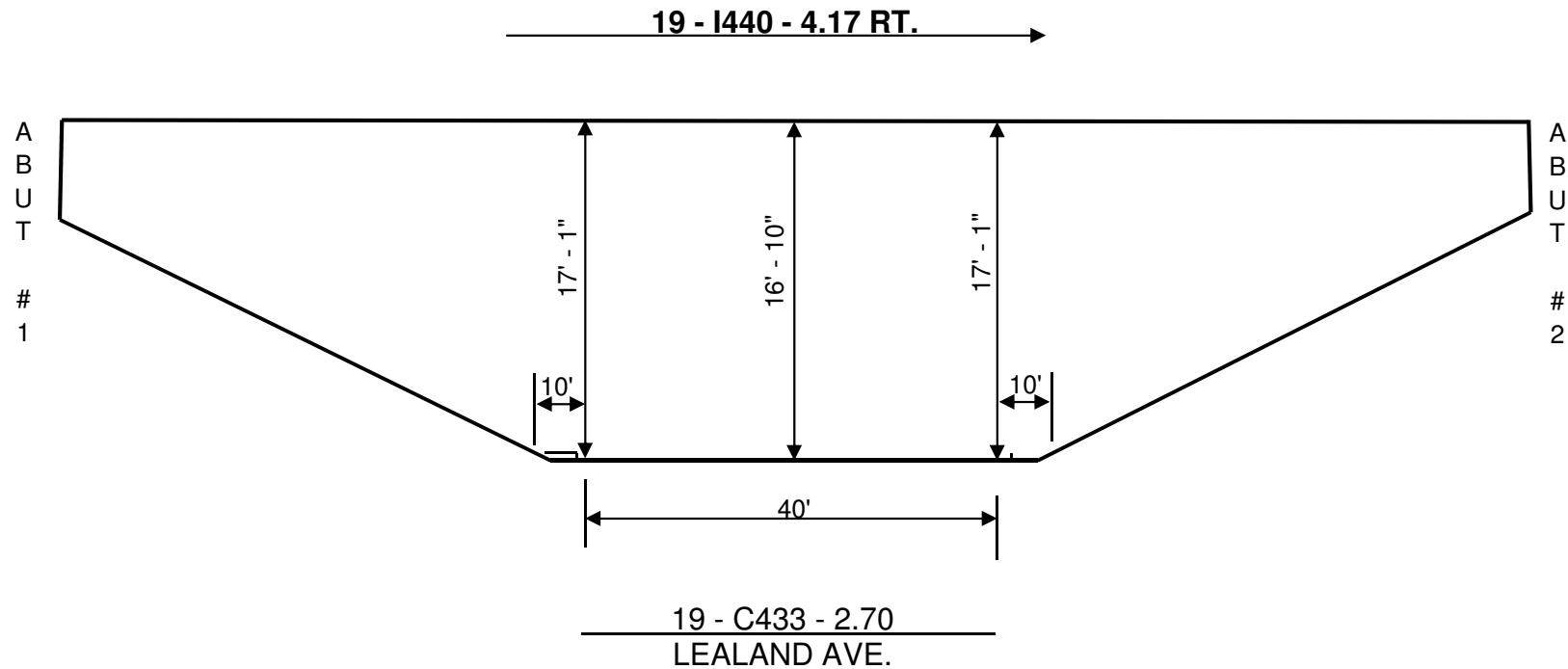
MINIMUM PICTURES REQUIRED

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

CLEARANCE SKETCH

Date 3/4/2016

Bridge Location No. 19 I440 4.17 RT.
County Route Log Mile



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