



Hamilton County

Regular Inspection Report

Location: 33-I0075-01.41

Federal ID: 33I00240069

Maintenance Responsibility:

State of Tennessee

Description:

3 Span Bridge

I-75-LM 1.41 NB to I-24 WB

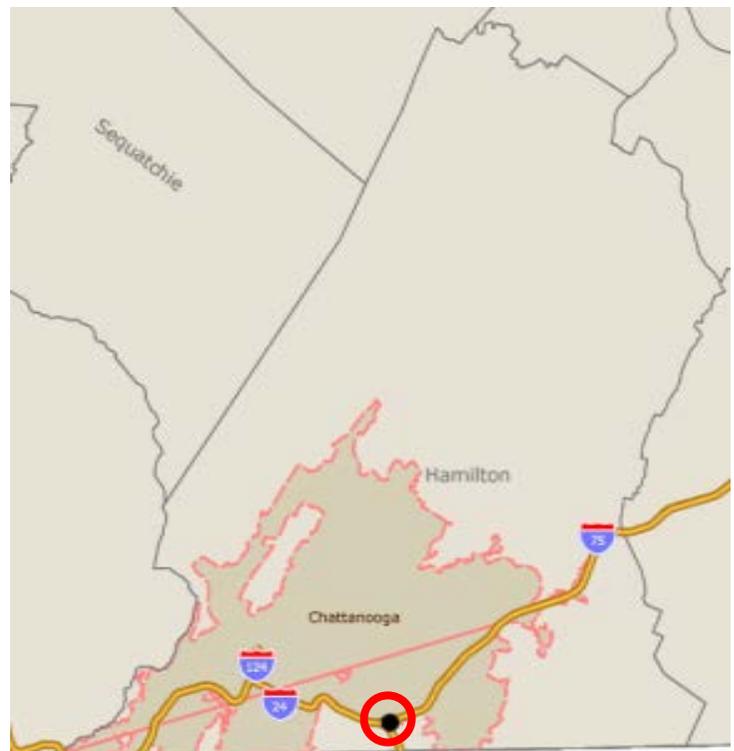
OVER

I-24-LM 14.41 Eastbound

Inspection Date: July 12, 2016

Overall Condition Rating:

GOOD



LOCATION MAP



- Route Direction ON Structure
- Underpass Route Direction
- Recommended Parking Area
- Traffic Direction ON Structure
- Underpass Traffic Direction

BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department
of Transportation

COUNTY: HAMILTON
 LOCATION: 33-I0075-01.41-
 CO. SEQ.: 1 SPEC. CASE: 0
 MILEPOST: 1.35

CROSSING: I24 EB TO I75 NB
 FED. BRIDGE NO.: 33I00240069
 MAINT. DIST.: 33

REPAIR LIST NO.: N
 DATE ADDED: 08/07/2002
 REVISED: 07/18/2016

FACILITY CARRIED:	I75 RP TO I24	NUMBER OF MAIN SPANS:	3
HIGHWAY SYSTEM:	02-INTERSTATE URBAN	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	38 FT 4 IN	BRIDGE LENGTH (FT):	169
BRIDGE WIDTH (OUT TO OUT):	40 FT 4 IN	MAXIMUM SPAN LENGTH (FT):	68
APPROACH ROADWAY (W/SHOULDERS):	41 FT 11 IN	SKEW ANGLE (DEGREES):	39
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:	07/12/2016	GENERAL CONDITION:	GOOD
EVALUATION DATE:	07/18/2014	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:		SUFFICIENCY RATING:	84.9
H TRUCK RATING @ INV.:	20 TONS		

GENERAL COMMENTS:



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 07/26/2016

Bridge Number:
(Includes Item 5A)

Feature Intersected:

Evaluation Status:

County:

Route:

Special Case:

County Sequence:

Log Mile:

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES
90	LAST INSPECTION DATE	<input type="text" value="07/12/2016"/>	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<input type="text" value="05/13/2018"/>	
		<input type="text" value="/ /"/>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.	9 EXCELLENT CONDITION 8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.	
36	TRAFFIC SAFETY FEATURES		7 GOOD CONDITION - SOME MINOR PROBLEMS. 6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT	1 0 0 N 55	
41	STRC OPEN/CLOSED/POSTED	A	5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
	A K P		
58	DECK	7	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
59	SUPERSTRUCTURE	7	
60	SUBSTRUCTURE	7	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.
61	CHANL/CHANL PROTECTION	N	
62	CULVERT AND RETAIN WALL	N	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.
71	WATERWAY ADEQUACY	N	
72	APPROACH RDWY ALIGNMENT	4	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.
521	OVERALL CONDITION	GOOD	
16	LATITUDE	17 LONGITUDE	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
	N 35° .2460'	W 85° 12.7940'	
	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	

TEAM LEADER SIGNATURE

REVIEW DATE

Photographs

Bridge ID#: 33I00240069

Date: 07/12/2016



BRIDGE # - BENT 1 - COLUMN C



LOOKING AHEAD

Photographs



CLEARANCE - AHEAD ON I24



LOOKING BACK

Photographs



CLEARANCE - BACK ON I24



RIGHT SIDEVIEW - BACK ON I24

Photographs

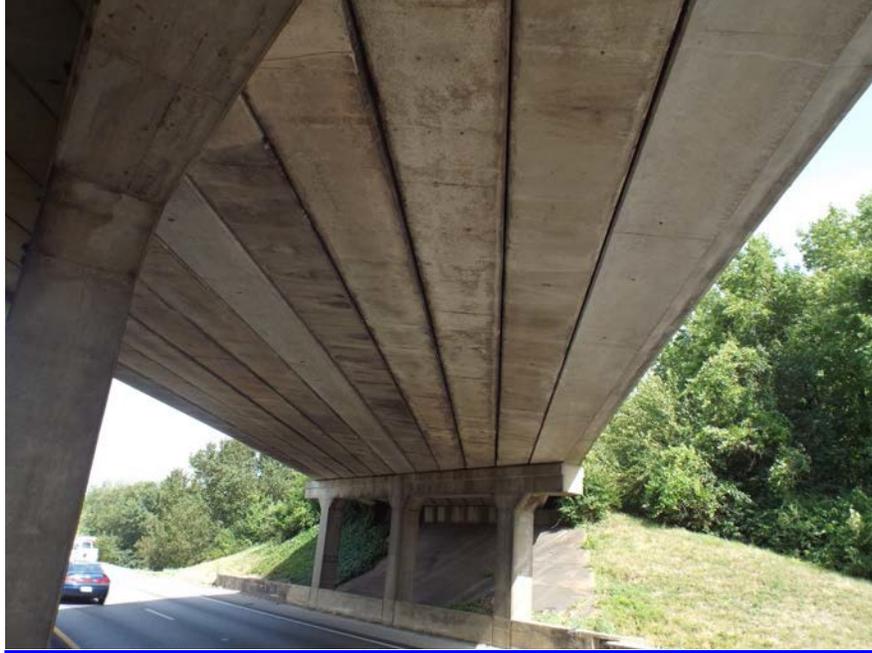


LEFT SIDEVIEW - AHEAD ON I24



SPAN 1

Photographs



SPAN 2



SPAN 3

Photographs



BEARINGS - ABUTMENT



BEARINGS - BENT

Photographs



APPROACH 1



WEARING SURFACE

Photographs



TRAFFIC SAFETY FEATURES



TRAFFIC SAFETY FEATURES - UNDERPASS

Photographs



APPROACH2

BRIDGE INSPECTION REPORT

Page No. _____

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

Field Report No. 23 Date 7/12/2016
Previous Report No. 22 Date 7/7/2014
Plans: DESIGN

Bridge No. 33100240069
Eleven Digit No.

Bridge Location No. 33 - I0075 - 0141
Co. Route Log Mile

I75 NB to I24 WB over I24 EBL *
Facility Carried by Structure Crossing Structure Name (If Named)
Year Constructed 1959 ACTUAL County Hamilton Maintenance District 21
Year Widened NA NA Year Rehabilitated 983,199 ACTUAL

FEATURES

Wearing Surface CONCRETE Depth 6.0 (in.)
Flared Width NO Median Width NONE
Navigational Control NO Bridge Skew 39° LT
Structure Type (Main Span) PCBB
Structure Type (Appr.Spans) NA
No. Main Spans 3 No. Approach Spans 0
Maximum Span Length 68.0 (**.* ft.)
Total Length 168.6 (**.* ft.)

TEAM LEADER

Tays

INSPECTORS

Haas

WIDTHS (*.* ft.)

Deck Out-to-Out 40.5
Roadway Curb/Curb NA
Roadway Rail/Rail 38.0
Sidewalk Rt. NA Lt. NA
*Approach Roadway 24
*(Does Not Include Shoulders)
Approach Shoulder Rt. 9.0
Lt. 5.0

CLEARANCES

Min. Vertical Clearance over Deck 99-99 (ft.-in.)
Min. Vertical Under Clearance 16 (ft.-in.)
Min. Lateral Under Clearance Rt. 9.0 (*.* ft.)
Min. Lateral Under Clearance Lt. 7.0 (*.* ft.)

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

NBIS Bridge Length (<25 ft.) _____ (ft.-in.)

UNDERWATER INSPECTION

To Be Performed By: NR Date _____

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

COMMENTS:

Supervising Bridge Inspector: Tays

BRIDGE RATING: GOOD

PERFORMANCE EVALUATION

Time of Day Inspected PM Weather Conditions Sunny 90 F
 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	FAIR	<i>CURVE - requires advanced warning & reduced speed</i>
Slab	NA	
Joints	NA	
Pavement	GOOD	
Embankment	GOOD	
Drains	NONE	

TRAFFIC SAFETY FEATURES

	Rating	Standard/ SubStandard	Comments
Bridgerailing	GOOD	STANDARD	
Transitions	GOOD	STANDARD	
Guardrail	GOOD	STANDARD	
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	GOOD	
Deck - Structural Condition	GOOD	<i>SMALL CRACKS IN OVERHANG.</i>
Curbs	NONE	
Median	NONE	
Sidewalks	NONE	
Parapet	NA	
Railing	GOOD	
Paint	NA	
Drains	GOOD	
Lighting Standards	NONE	
Utilities	NONE	
Joint Leakage	NA	
Expansion Joints	NONE	

SUPERSTRUCTURE

Bearing Devices	GOOD	
Girders or Beams	GOOD	<i>SMALL CRACK, MINOR SPALLS, REBAR POPOUTS. MINOR HONEYCOMB</i>
Floor Beams	NA	
Stringers	NA	
Diaphragms	NA	
Bracing	NA	
Trusses - General	NA	
Portals	NA	
Bracing	NA	
Paint	NA	
Alignment of Members	GOOD	

TEXTURE COAT

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

SUBSTRUCTURE

ABUTMENTS

	Rating	Comments
Caps	GOOD	<i>SM cracks, minor delams</i>
Breastwall	GOOD	<i>SMALL CRACKS, MINOR DELAMS.</i>
Wings	GOOD	
Backwall	GOOD	
Plumb	GOOD	
Footing	NA	
Piles	NV	
Embankment	GOOD	
Bearing Surface	GOOD	
Slope Paving	GOOD	
Rip Rap	NA	

PIERS

Caps		
Columns		
Plumb		
Footings		
Piles		
Bearing Surface		

BENTS

Caps	GOOD	<i>HL CRACKS, MINOR SPALL & DELAM.</i>
Columns	GOOD	<i>POPOUTS</i>
Plumb	GOOD	
Footings	NV	
Piles	NV	
Bearing Surface	GOOD	

Piles Need Replacement: NO

Piles To Be Replaced:

Inspection Team's Summary
Bridge Location No. 33 - I0075 - 0141
Inspection Date 7/12/2016
Bridge Rating GOOD

Page No.____

TYPE SERVICE: I75 NBL RAMP TO I24 WBL
OVER: I24 EBL *

On Tuesday, July 12, 2016, a Region Two bridge inspection team inspected this structure and found it to be in GOOD condition.

TOP OF DECK

Traffic Safety Features

Bridge Rail:	GOOD	STANDARD
Transitions:	GOOD	STANDARD
Approach Rail:	GOOD	STANDARD
Terminals:	GOOD	STANDARD

Wearing Surfaces

Approach Pvm:	GOOD
Deck - Wearing Surface:	GOOD

BOTTOM OF DECK

Deck - Structural Condition:	GOOD	SMALL CRACKS IN OVERHANG.
------------------------------	------	---------------------------

SUPERSTRUCTURE

Beams:	GOOD	SMALL CRACK, MINOR SPALLS, REBAR POPOUTS. MINOR HONEYCOMB
Bearings:	GOOD	

SUBSTRUCTURE

Abutments

Caps:	GOOD	SM cracks, minor delams
Breastwall:	GOOD	SMALL CRACKS, MINOR DELAMS.
Wings:	GOOD	
Backwall	GOOD	
Bearing Surface:	GOOD	

Bents

Caps:	GOOD	HL CRACKS, MINOR SPALL & DELAM.
Columns:	GOOD	POPOUTS
Bearing Surface:	GOOD	

UNDERCLEARANCE

Min Vert Under Clear(ft-in): 16

SPECIAL NOTES

BRIDGE LOCATION NO. 33 I 75 1.41 2.27 DATE: 03/04/98
 COUNTY ROUTE LOG MILE LOG km

STATION/ LOCATION	TOP OF LT. CURB/RAIL	GUTTER/ EDGE DECK	CENTERLINE	GUTTER/ EDGE DECK	TOP OF RT. CURB/RAIL
ABUT # 1		213.18		212.65	
BENT # 1		213.20		212.74	
BENT # 2		213.07		212.67	
ABUT # 1		212.92		212.50	

BENCH MARK LOCATION TOP WING, ABUT. # 1, LT. SIDE. _____

BENCH MARK ELEVATION 700.27 ft- 213.44 m _____

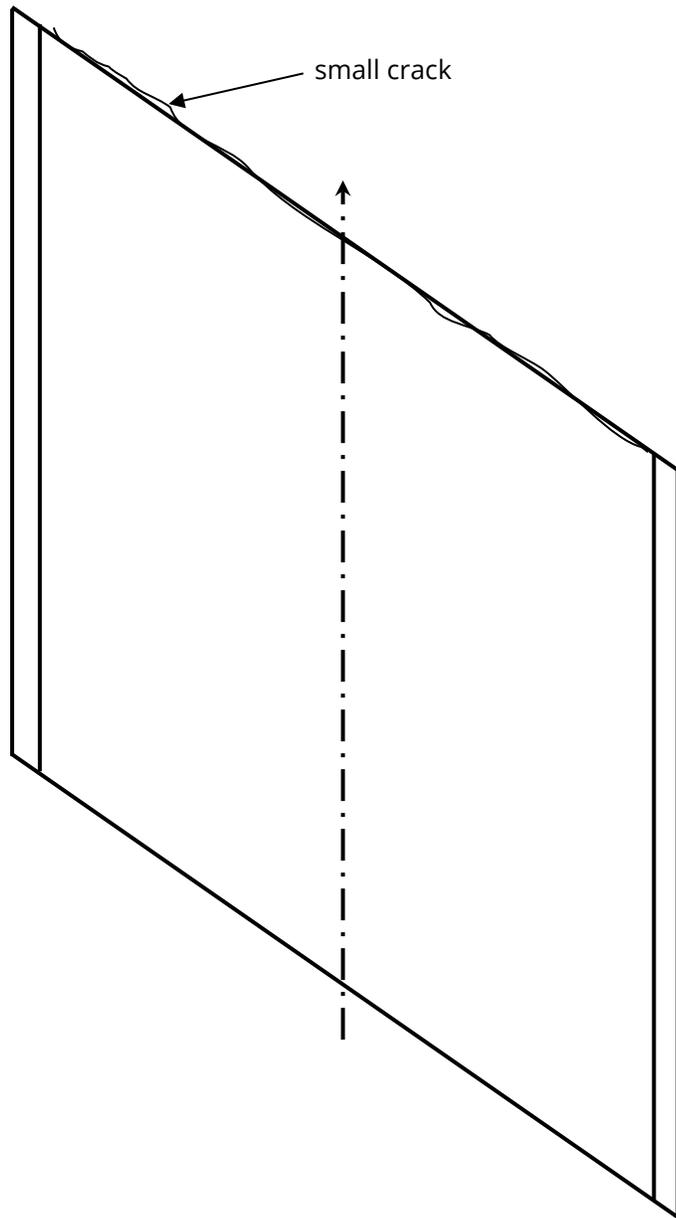
NOTE: ELEVATIONS TAKEN FROM PREVIOUS REPORT.

App Pvmt: G

App Rail: G

Wearing Surface: G

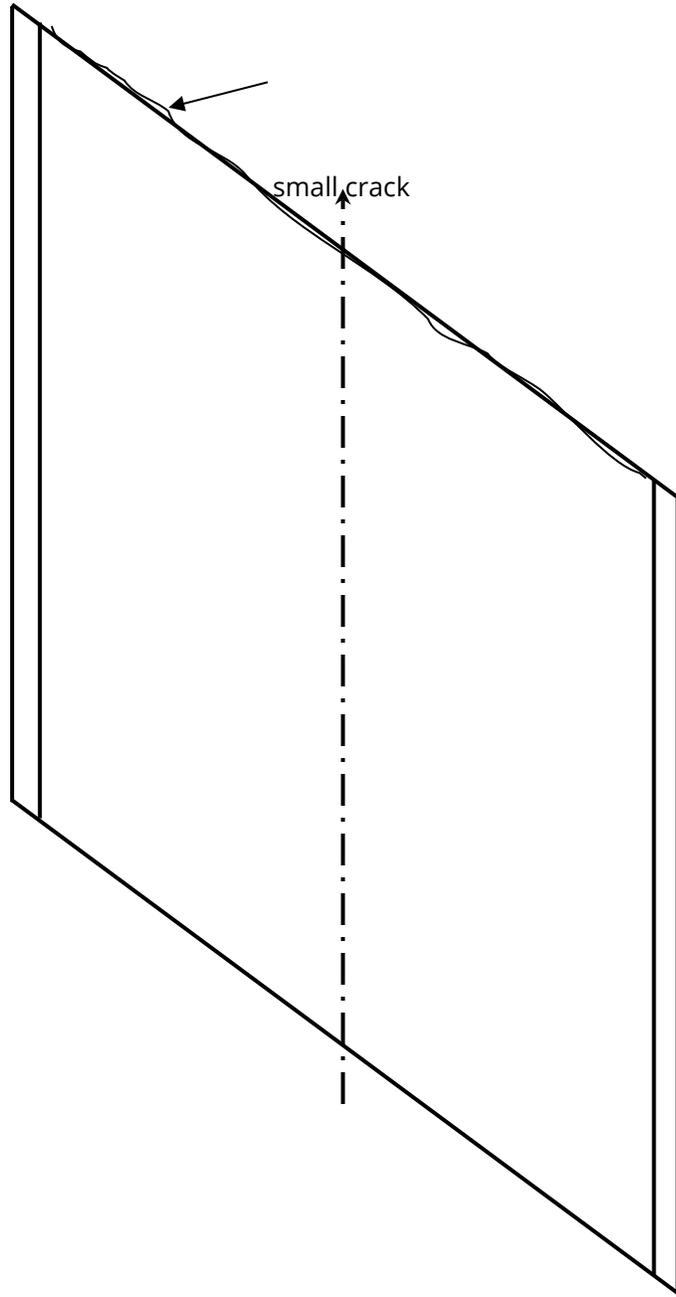
Bridge Rail: GF HL vertical cracks



2016 Changes in RED

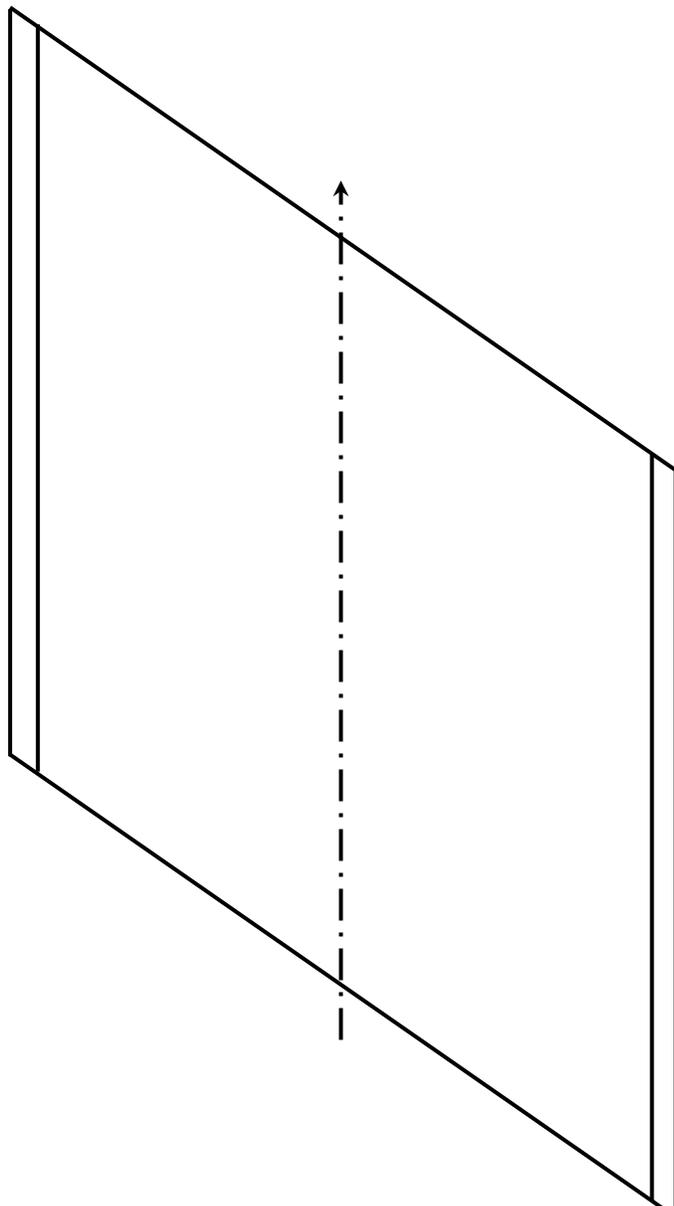
Wearing Surface: G

Bridge Rail: G



2016 Changes in RED

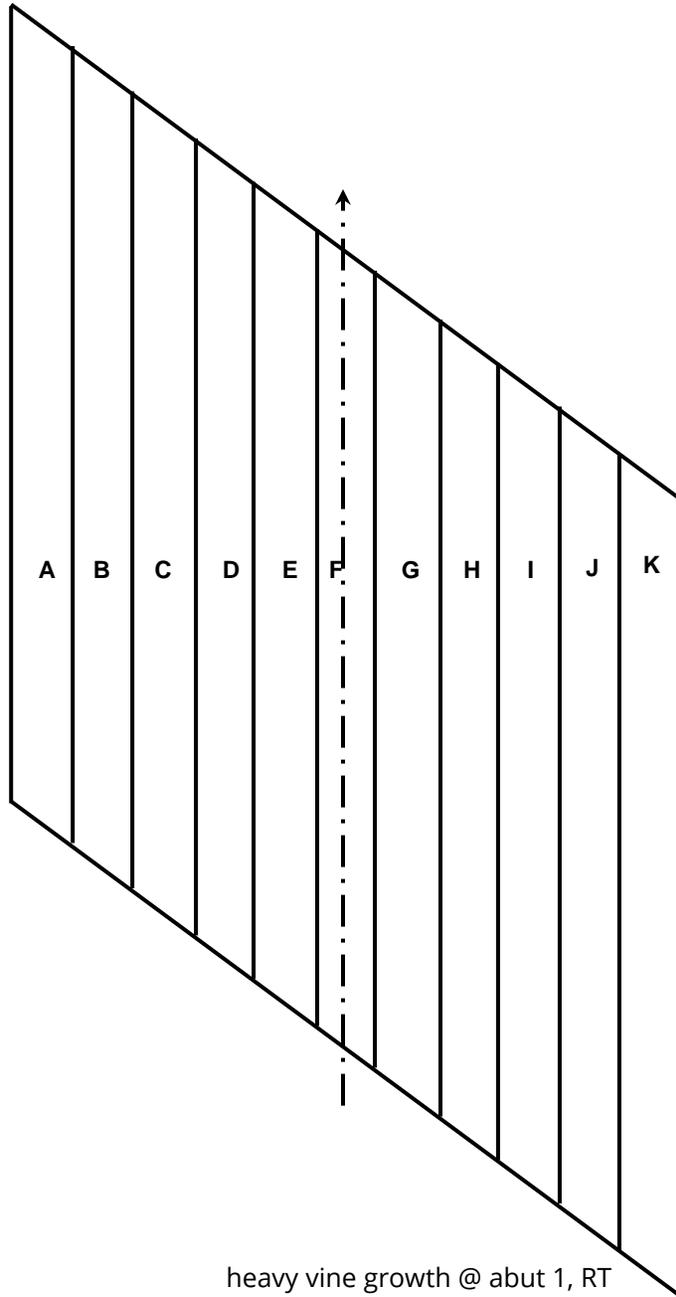
App Pvmt: G
App Rail: G
Wearing Surface: G
Bridge Rail: GF HL vertical cracks



2016 Changes in RED

Beams: G

Bearings: G

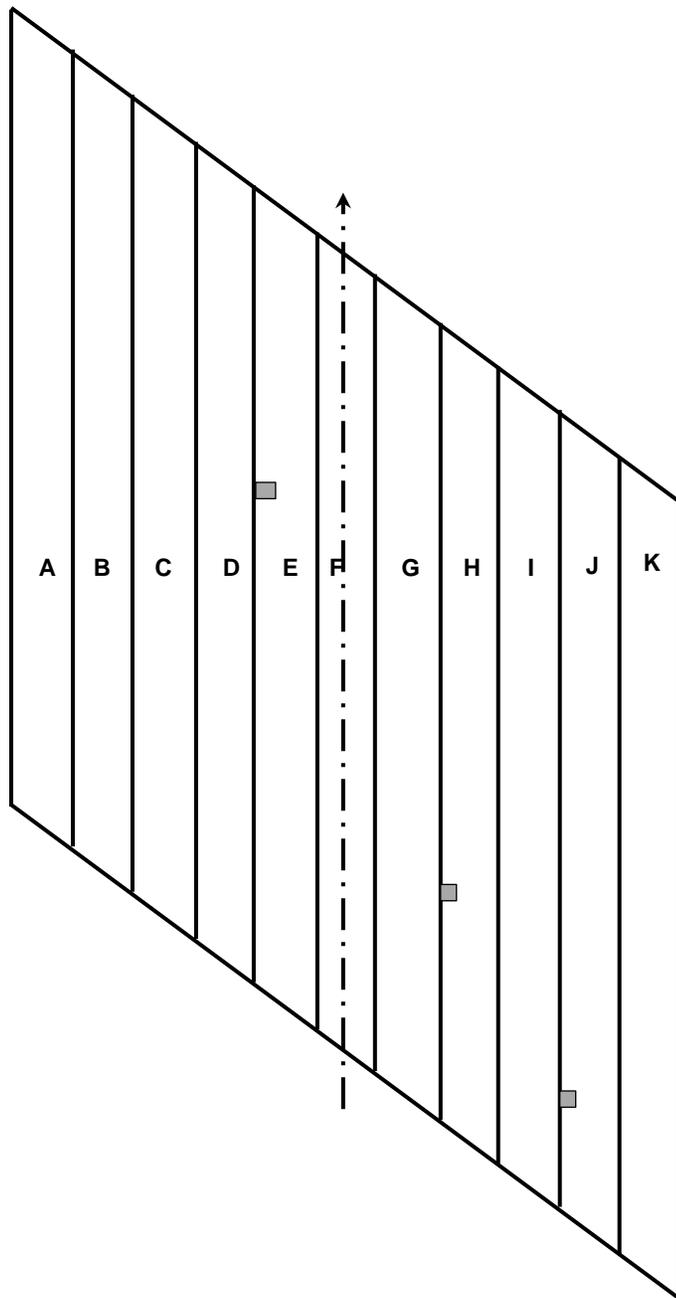


heavy vine growth @ abut 1, RT
between beams J & K

2016 Changes in RED

Beams: G, 'J', 'H', 'E' - rebar popouts 3"x3"

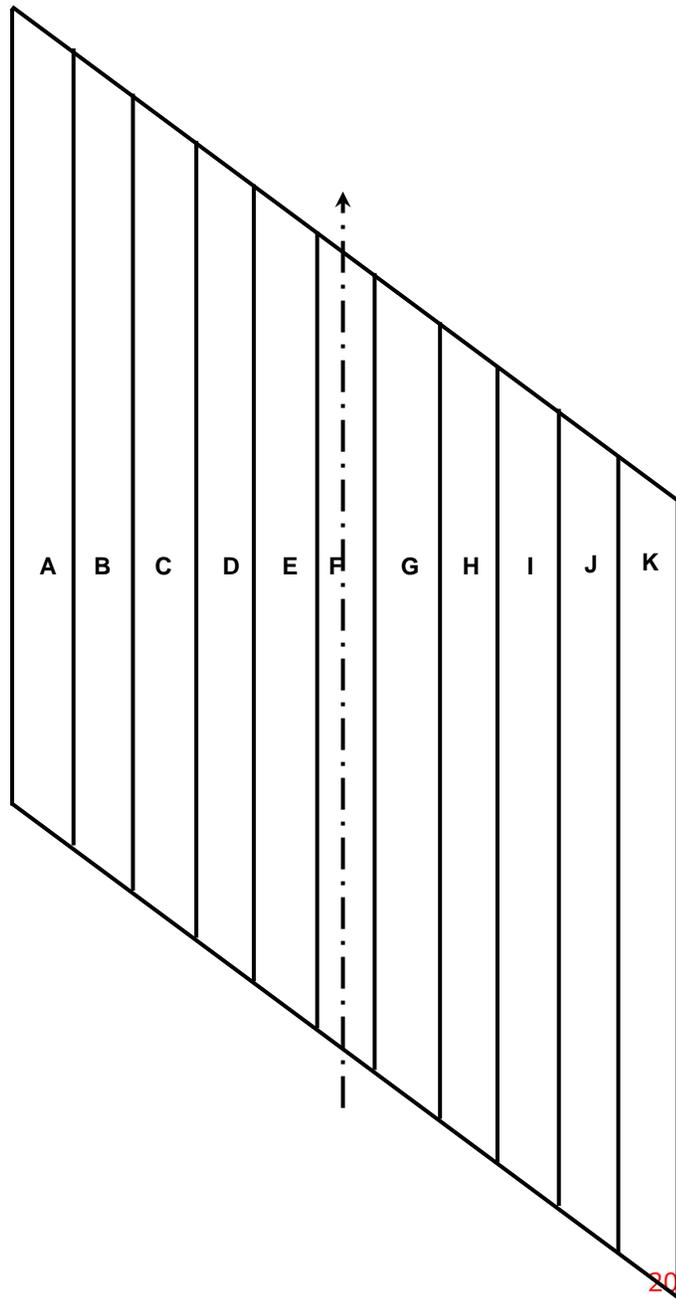
Bearings: G



2016 Changes in RED

Beams: G

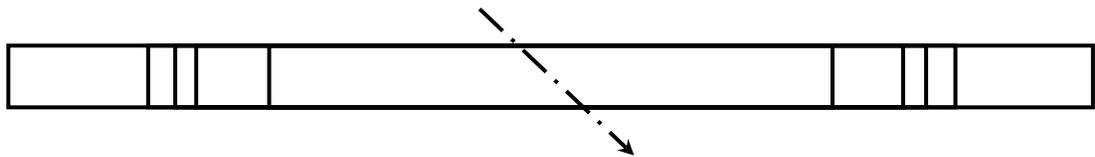
Bearings: G



2016 Changes in RED

Walls: G HL cracks

Slope: F Under cut LT side



cracks are hairline-small



slope undercut
2' to 3' deep
for 10'

10'

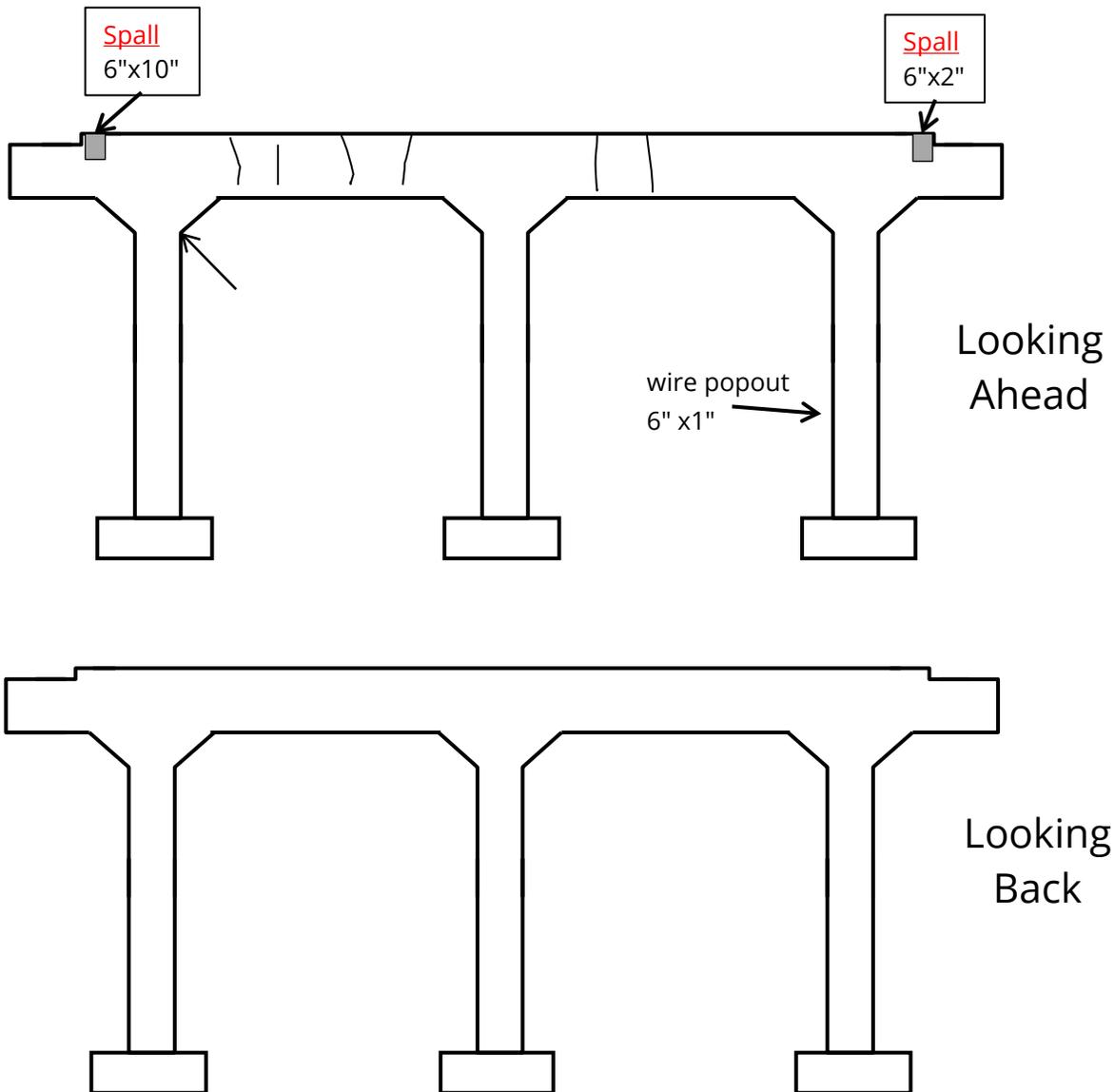
slope undercut
1' deep for 4' from
bent

4'

2016 Changes in RED

Columns: G

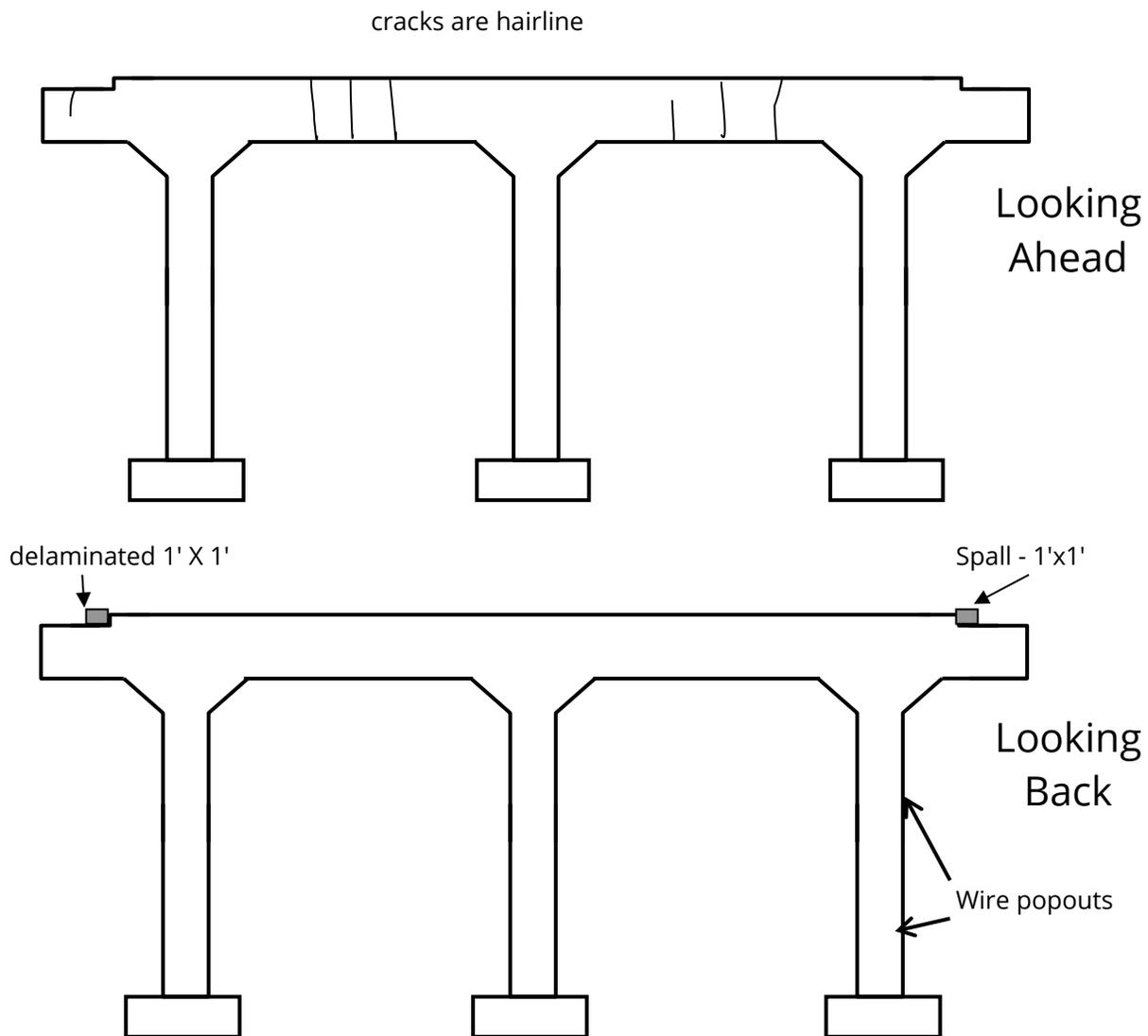
Cap: G



2016 Changes in RED

Columns: G

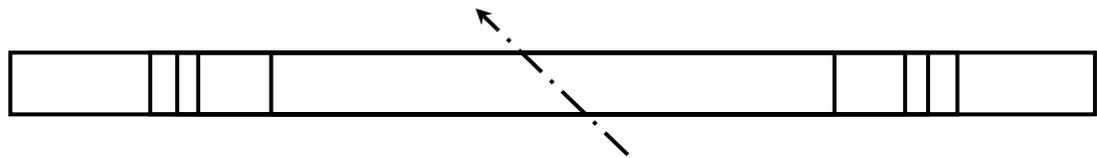
Cap: G



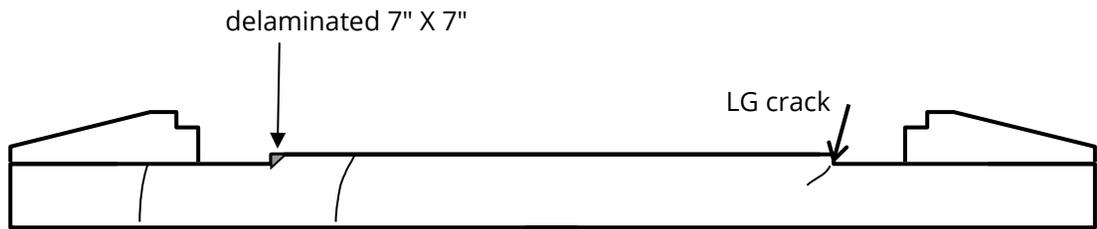
2016 Changes in RED

Cap: G

Slope: G



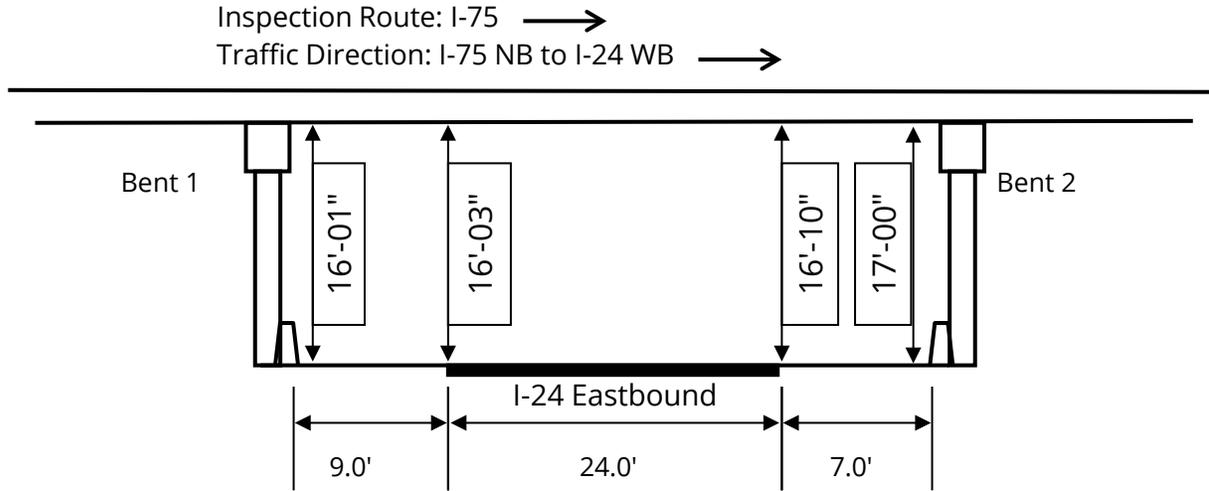
cracks are hairline



Slope - Undercut 6 ft

2016 Changes in RED

Facility Carried ON Structure: Ramp - I-75 Northbound TO I-24 Westbound
Inspection Route: I-75 Toward I-24 Westbound
Traffic: 2 Thru Lanes



Looking Back on I-24 EB - Toward Chattanooga

Underpass Facility: I-24 Eastbound
Inspection Route: I-24 EB Toward I-75
Traffic: 2 Thru Lanes

2016 Changes in RED

BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department
of Transportation

COUNTY: HAMILTON

LOCATION: 33-I0024-14.60-

CO. SEQ.: 2 SPEC. CASE: 0

MILEPOST: 185.54

CROSSING: I75 SB RP

FED. BRIDGE NO.: 33I00240069

MAINT. DIST.: 33

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 07/30/2012

FACILITY CARRIED:	I75 SB RP	NUMBER OF MAIN SPANS:	_____
HIGHWAY SYSTEM:	02-INTERSTATE URBAN	NUMBER OF APPROACH SPANS:	_____
BRIDGE WIDTH (CURB TO CURB):	N/A FT _____ IN	BRIDGE LENGTH (FT):	185
BRIDGE WIDTH (OUT TO OUT):	N/A FT _____ IN	MAXIMUM SPAN LENGTH (FT):	68
APPROACH ROADWAY (W/SHOULDERS):	43 FT 11 IN	SKEW ANGLE (DEGREES):	N/A
MAINTAINED BY: _____			
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE		
MAIN SPAN DESIGN TYPE:	BOX BEAM OR GIRDERS - MULTIPLE		
APPROACH SPAN MATERIAL:	_____		
APPROACH SPAN DESIGN TYPE:	_____		
INSPECTION DATE:	07/12/2016	GENERAL CONDITION:	GOOD
EVALUATION DATE:	07/18/2014	STRUCTURALLY DEFICIENT:	_____
PPRM PIN NUMBER:	_____	SUFFICIENCY RATING:	_____
H TRUCK RATING @ INV.:	_____ TONS		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
NO RECOMMENDATIONS AT THIS TIME

GENERAL COMMENTS:

Underpass Condition Coding Form

County: 33

Route: I0024

Special Case: 0

County Sequence: 2

Bridge Number: 33I002400692
(Includes Item 5A)

Feature Intersected: I75 SB RP

Log Mile: 14.60

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	07/12/2016	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	05/13/2018	
		/ /	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 2 IN. ____ FT. ____ IN.	515 (A) TYPE UNDERPASS BARRIER COMBINATION OF METAL & CONCRETE BARRIER OR RAIL
			Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 5 IN. ____ FT. ____ IN.	(B) ADEQUACY OF BARRIER OR RAIL 1
47	TOTAL HORIZONTAL UNDERCLEARANCE	41 FT. 0 IN. ____ FT. ____ IN.	(C) ADEQUACY OF TRANSITIONS 0
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		(D) ADEQUACY OF TERMINALS 0
	Circle One: H R	____ FT. ____ IN.	
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: H R	____ FT. ____ IN.	FT. IN. ____ FT. ____ IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	____ FT. ____ IN.	16 LATITUDE 17 LONGITUDE
			N 35° .2460' W 85° 12.7940'
521	OVERALL CONDITION	GOOD	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
555	COMMENTS		

TEAM LEADER SIGNATURE

/ /
REVIEW DATE

INSPECTION REPORT FOR UNDERPASS ROUTE

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

Field Report No. 23 Date 7/12/2016
Previous Report No. 22 Date 7/7/2014

Bridge No. 33100240069
Eleven Digit No.

Underpass Location No. 33 - I0024 - 1441
Co. Route Log Mile

I75 NB or 33 - I0075 - 0141 over 33 - I0024 - 1441
Railroad/Walkway Co. Route Log Mile Co. Route Log Mile

County Hamilton Structure Name (If Named) _____

Year Constructed 1959 ACTUAL

Year Widened NA NA Year Rehabilitated 983,199 ACTUAL

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

Divided Highway NA Type of Wearing Surface ASPHALT

Width of Approach Traveled Roadway 24.0 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway NA ft.

Approach Shoulder Width 9.0 ft. Right 7.0 ft. Left

*Horizontal Clearance Under Bridge 40.0 ft.

*Distance Between Pier Protection Guardrail and Substructure 0 ft. Right 0 ft. Left

*Width of Sidewalk Under Bridge NA ft. Right NA ft. Left

*Minimum Vertical Clearance: 16 ft. 1 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
GOOD	STANDARD
GOOD	NONSTANDARD
GOOD	STANDARD
GOOD	NONSTANDARD

SIGNING

Yes/ No/ Needed

Paddleboards	NO
Vertical Clearance (<14'-6")	NO
Narrow Passage	NO
One Lane Passage	NO

Other Underpass Signs Needed

TEAM LEADER

Tays

INSPECTORS

Haas

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

Date 7/12/2016

Underpass Location No. 33 - I0024 - 1441
Co. Route Log Mile

Other Signs or Plaques:

Comments Regarding any
Problems with Signing:

BRIDGE FEATURES (*.* ft.)

Bridge Skew <u>39° LT</u>	Number of Lanes/Tracks on Bridge <u>2</u>
Structure Type (Main Span) <u>PCBB</u>	No. Main Spans <u>3</u>
Structure Type (Appr.Spans) <u>NA</u>	No. Appr. Spans <u>0</u>
Maximum Span Length <u>68.0</u> (ft.)	Total Length <u>168.6</u> (ft.)
Width of Bridge Out-to-Out <u>40.5</u> (ft.)	Right Angle to Centerline of Bridge)
Width of Bridge Along Skew <u>NA</u> (ft.)	(If Unable to Measure at Right Angle to Centerline of Bridge)

BRIDGE CONDITION: GOOD

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:

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

NOTES:

Structure Inventory and Appraisal Sheet (English Units)

ELEMENT CONDITION STATE DATA												
Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
0	12/1	Re Concrete Deck	sq.ft	6,290	100%	6,290	0%	0	0%	0	0%	0
0	104/1	Pre Clsd Box Girder	ft	1,870	100%	1,870	0%	0	0%	0	0%	0
0	205/1	Re Conc Column	each	6	100%	6	0%	0	0%	0	0%	0
0	215/1	Re Conc Abutment	ft	150	100%	150	0%	0	0%	0	0%	0
0	234/1	Re Conc Pier Cap	ft	116	100%	116	0%	0	0%	0	0%	0
0	310/1	Elastomeric Bearing	each	66	100%	66	0%	0	0%	0	0%	0
0	331/1	Re Conc Bridge Railing	ft	340	100%	340	0%	0	0%	0	0%	0