

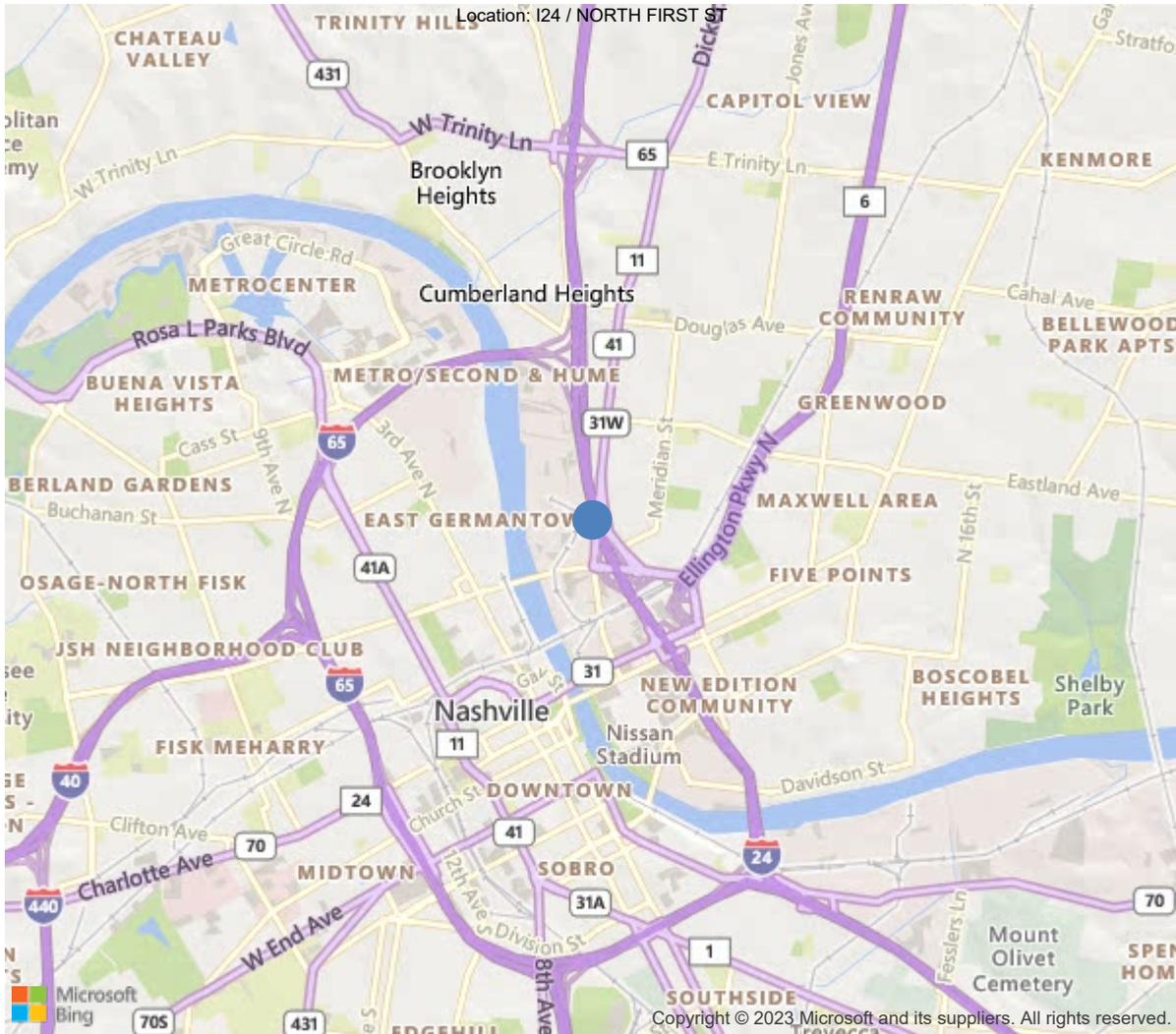


Latitude:36.18020, Longitude:-86.77447

Region 03, 19 - Davidson County

Team Leader: Jimmy Haynes

Inspectors: Ricky Knight, Harley Anderson, Joseph Brown



I-24 Crossing I24 / NORTH FIRST ST

36.18020, -86.77447

90 - LAST INSPECTION DATE 09/21/2021

10 - MIN. V.C. OVER DECK
(ROADWAY + SHOULDERS) 99.99 FT.

520 - MIN. V.C. OVER DECK
(EXCLUDES SHOULDERS) 99.99 FT.

36 - TRAFFIC SAFETY FEATURES

Br. Rail	Trans.	Appr. Rail	Terminal	SPEED LIM.
1	0	0	1	55

41 - STRC OPEN/CLOSED/POSTED A

58 - DECK 5

59 - SUPERSTRUCTURE 6

60 - SUBSTRUCTURE 5

61 - CHANL/CHANL PROTECTION N

62 - CULVERT AND RETAIN WALL N

71 - WATERWAY ADEQUACY N

72 - APPROACH RDWY ALIGNMENT 8

521 - OVERALL CONDITION 2 - Fair

16 - LATITUDE	17 - LONGITUDE
<u>36.180200</u>	<u>-86.774467</u>

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

Jimmy D. Haynes

TEAM LEADER SIGNATURE

IDENTIFICATION	
(1) State Names	47 - Tennessee
(8) Structure Number	19I00240107
(5) Inventory Route	1
(2) Highway Agency District	Region 3
(3) County Code	19 - Davidson
(4) Place Code	52006
(6) Features Intersected	I24 / NORTH FIRST ST
(7) Facility Carried	I24
(9) Location	I24 / NORTH FIRST ST
(11) Mile Point	13.790 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	19I0024001
(16) Latitude	36.180200
(17) Longitude	-86.774467
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(45) No. of Spans in Main Unit	2
(46) No. of Approach Spans	2
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1961
(106) Year Reconstructed	1985
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	7
Under	4
(29) Average Daily Traffic	113584
(30) Year of ADT	2021
(109) Truck ADT	7 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	113.8 ft
(49) Structure Length	378.9 ft
(50) Curb or Sidewalk Width	
Left	2.0 ft
Right	2.0 ft
(51) Bridge Roadway Width Curb to Curb	124.0 ft
(52) Deck Width Out to Out	126.0 ft
(32) Approach Roadway Width (W/Shoulders)	144.0 ft
(33) Bridge Median	0 - No median
(34) Skew	23 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	55.8 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	15.03 ft
Ref:	
(55) Min Lat Underclear RT	10.2 ft
Ref:	
(56) Min Lat Underclear LT	4.6 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(111) Pier Protection	
(39) Navigation Vertical Clearance	0.0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	ft
(40) Navigation Horizontal Clearance	0.0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	1
(26) Functional Class	11 - Urban Principal Arterial
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	1 - The inventory route is par
(20) Toll	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
CONDITION	
(58) Deck	5
(59) Superstructure	6
(60) Substructure	5
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	81.00
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	32.40
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	9
(69) Clearances, Vertical/Horizontal	6
(71) Waterway Adequacy	N
(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	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	35 - Bridge rehabilitation bec
(76) Length of Structure Improvement	378.9 ft
(94) Bridge Improvement Cost	\$ 7039
(95) Roadway Improvement Cost	\$ 704
(96) Total Project Cost	\$ 10559
(97) Year of Improvement Cost Estimate	2021
(114) Future ADT	166190
(115) Year of Future ADT	2041

INSPECTIONS *			
(90) Inspection Date			09/21/2021
(91) Frequency			24
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			

PERFORMANCE EVALUATION

Time of Day Inspected 9:00 AM

Weather Conditions Sunny 60

Vehicles Observed All types

LIVE LOAD BEHAVIOR

Sub Horiz./ Vert. Defl (No) _____

Sub Vibration (No) _____

Super Horiz./ Vert. Defl (Yes) _____

Super Vibration (Yes) _____

APPROACH

Alignment (Good) _____

Slab (NA) PAVED OVER

Joints (Not visible) PAVED OVER

Pavement (Good) _____

Embankment (Good) 'A' END LT--POOR--EROSION W/UNDERMINING

Approach Drains (Good) B END LT ONLY

TRAFFIC SAFETY FEATURES

Bridge Railing Rating (Good) _____

Transitions Rating (Good) _____

Guardrail Rating (Good) "A" END LT&RT--LGT COLL DMG

SIGNS 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 Signs No

Other Signs or Plaques _____ 564 Assigned Bridge Name

ATTACHED SIGNS

Sign No	Location	Text on Sign	Noted Defects
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DECK

Wearing Surface Type		Asphalt	Wearing Surface Depth	3
Wearing Surface	(Fair)	ASPHALT - POTHOLES,PATCHES AT JOINTS		
Deck - Structural Condition	(Fair)	ALL SPANS--MAP CRACKS, SPALLS W/EXP STL.		
Parapet	(Good)	LGT VERT CRACKS		
Deck Drains	(Good)			
Lighting Standards	(Good)			
Expansion Joints	(Not Visible)	PAVED OVER, SOME PARTIALLY. PATCHES,POTHOLES		

SUPERSTRUCTURE

Bearing Devices	(Fair)	MOD-HVY CORR W/ PACK RUST BETWEEN PLATES; BROKEN ANCHOR BOLTS AT ABUTS; ABUT #1 - RANDOM MISSING NUTS		
Girders	(Fair)	LGT-MOD CORR		
Diaphragms	(Good)	PAINT FAILING W/ CHAULKING & PEELING		
Superstructure Paint	(Poor)	HVY CHAULKING, PEELING, & AREAS OF LIGHT TO MODERATE CORROSION		
Alignment of Members	(Good)			

ABUTMENTS

Abutment Caps	(Good)	ABUT 1--HSPOs, VERT HCs
Abutment Wings	(Good)	
Abutment Backwall	(Good)	
Abutment Plumb	(Good)	
Abutment Piles	(Not Visible)	
Abutment Embankment	(Good)	
Abutment Bearing Surface	(Good)	
Abutment Slope Paving	(Good)	HVY TRASH BLD-UP AND EROSION AT ABUTMENT 1

BENTS

Bent Caps	(Fair)	TYPICAL--CRACKS, DELAM, SPALLS, IP SPALLS; BENT 2 IS POOR WITH OPEN CRACKS UP TO 1/4".
Bent Columns	(Fair)	TYPICAL--CRACKS UP TO 1/8" OPEN, DELAM AREAS, SPALLS; BENT 3 COL 'P'--SPALL
Bent Plumb	(Good)	
Bent Footing	(Not Visible)	
Bent Piles	(Not Visible)	
Bent Bearing Surface	(Good)	
Piles Need Replacement	(No)	

Inspection Team's Summary

4 span Bridge / Cont. S.I.B
I-24 / North First Street

Approach alignment and embankments are good. However, embankment at 'A' end left Westbound is poor with heavy erosion with undermining. Approach pavement is good. Bridge railings are good. Median parapet rail is good. Expansion joints at approaches are paved over.

The asphalt wearing surface is fair with potholes, patches at paved over joints, some now only partially paved over. Drains are good. Joint leakage shows moderate to heavy stains on the abutments and bent caps. Bottom deck is fair with random spalls, delamination, and heavy hairline map cracks with efflorescence in all spans. Expansion joints that aren't paved over are poor due to missing filler.

Beams are fair due to paint failing with heavy chalking, peeling, and light to moderate corrosion. Bearing devices are fair with moderate rust, corrosion, paint failing and broken anchor bolts on bearings at abutments.

The abutments and wings are good. Bent caps and columns are fair with random cracks, spalls, and delamination, however, bent #2 is poor due to 1/4" open cracks.

Underpass pier protection is not in place. Underpass lighting needs to be repaired.

General Inspection Comment

BRIDGE REPLACEMENT PROJECT EARLIEST LETTING DATE IS CY2024.

REPAIRED BREAKOUTS IN BOTTOM OF DECK 11/07/2014 H.H.

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Re Concrete Deck	SF	47738	44231	3446	61	0
1080	Delamination/Spall/Patched Area	SF	61	0	0	61	0
1130	Cracking (RC and Other)	SF	3446	0	3446	0	0
510	Wearing Surfaces	SF	30780	30180	0	600	0
3210	Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)	SF	600	0	0	600	0
(12) Element record added 2015-03-17.							
(1080-12) Element record added 9/20/2019							
(1130-12) Element record added 9/20/2019							
(510-12) Element record added 2015-03-17.							
(3210-510-12) Element record added 9/20/2019							
107	Steel Opn Girder/Beam	LF	6069	2994	3000	75	0
1000	Corrosion	LF	6069	2994	3000	75	0
515	Steel Protective Coating	SF	69187	0	0	67159	2028
3410	Chalking (Steel Protective Coatings)	LF	69187	0	0	67159	2028
(107) Element record added 2015-03-17.							
(1000-107) Element record added 9/20/2019							
(515-107) Element record added 2015-03-17.							
(3410-515-107) Element record added 9/20/2019							
205	Re Conc Column	EA	51	26	10	15	0
1080	Delamination/Spall/Patched Area	EA	15	0	0	15	0
1130	Cracking (RC and Other)	EA	10	0	10	0	0
(205) Element record added 2015-03-17.							
(1080-205) Element record added 9/20/2019							
(1130-205) Element record added 9/20/2019							
215	Re Conc Abutment	LF	669	597	44	28	0
1130	Cracking (RC and Other)	LF	72	0	44	28	0
(215) Element record added 2015-03-17.							
(1130-215) Element record added 9/20/2019							
234	Re Conc Pier Cap	LF	891	816	31	41	3
1080	Delamination/Spall/Patched Area	LF	75	0	31	41	3
(234) Element record added 2015-03-17.							
(1080-234) Element record added 9/20/2019							

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
311	Moveable Bearing	EA	64	0	57	7	0
1000	Corrosion	EA	64	0	57	7	0
515	Steel Protective Coating	SF	128	128	0	0	0
(311) Element record added 2015-03-17.							
(1000-311) Element record added 9/20/2019							
(515-311) Element record added 2015-09-29.							
313	Fixed Bearing	EA	48	28	20	0	0
1000	Corrosion	EA	20	0	20	0	0
515	Steel Protective Coating	SF	96	64	32	0	0
3410	Chalking (Steel Protective Coatings)	EA	32	0	32	0	0
(313) Element record added 2015-03-17.							
(1000-313) Element record added 9/20/2019							
(515-313) Element record added 2015-09-29.							
(3410-515-313) Element record added 9/20/2019							
331	Re Conc Bridge Railing	LF	1286	1155	125	6	0
9999	Unknown	LF	131	0	125	6	0
521	Conc Prot Coating	SF	9002	0	0	4501	4501
9999	Unknown	LF	9002	0	0	4501	4501
(331) Element record added 2015-03-17.							
(521-331) Element record added 2015-03-17.							

Equipment List

General Inspection

- Pocket knife
- Sounding/chipping hammer
- Chain drag
- Range pole
- 25' rod - depth and clearance

Visual Aid

- Binoculars
- Flashlight
- Magnifying glass
- Hand mirror

Cleaning

- Wisk broom
- Wire brush
- Flat bladed screwdriver
- Hand shovel
- Penetrating oil (WD-40, etc.)

Tools For Access

- Ladders
- Rope
- Waders
- Machete or bush axe

Comment

Tools For Measuring

- Masonry/Wood Ruler
- 6' Pocket Tape
- 25' and 100' Tape
- Calipers
- Thermometer
- Carpenter's Level
- String and Weighted line (plumb bob)

Special Purpose Equipment

- Reach All
- Bucket Truck
- Traffic control
- Boat
- Sonar depth finder
- Increment borer
- Survey equipment
- Safety Harness
- Climbing equipment
- Dye penetrant
- Drone

Special Purpose Equipment



Fallen MM sign westbound span #1



Bridge number



Clearance right



Clearance left



A approach- Eastbound



B approach, Eastbound



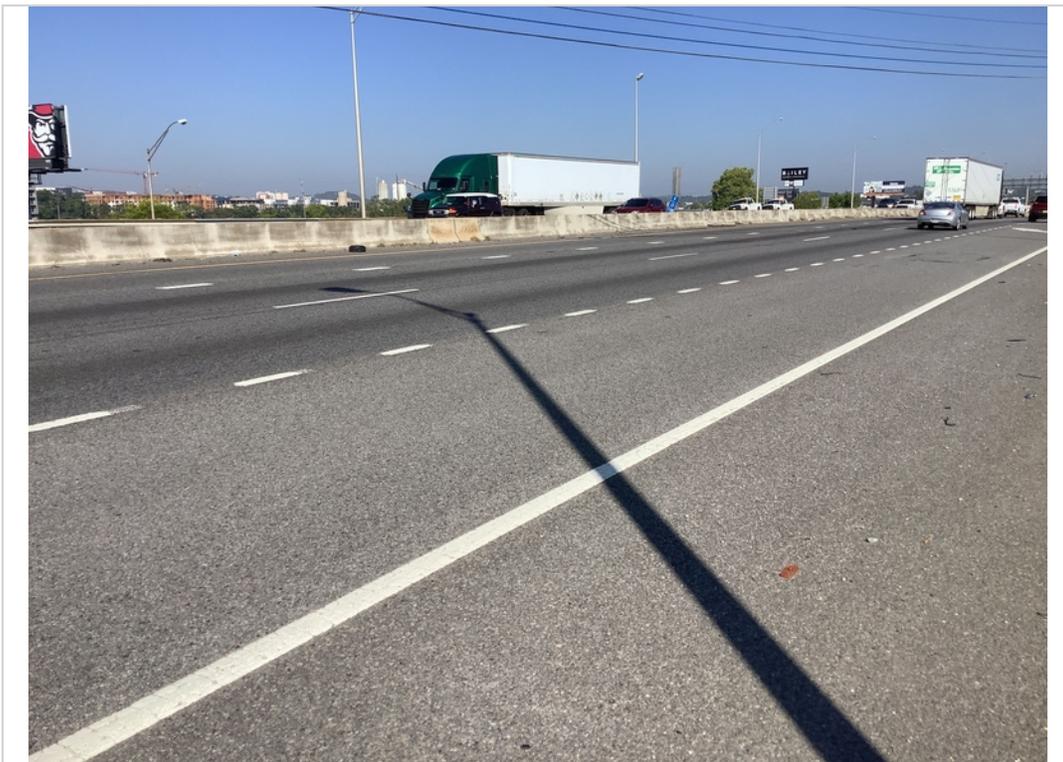
B approach, westbound



Moderate erosion, A approach, left westbound



A approach right, light erosion



VAD westbound



Expansion joint span #4, transverse crack upto 1" open, westbound



VAD Eastbound



Span #1, expansion joint, paved over, patches



Span 4 bay J trans cracks with eff



Span 4 bay I trans crack with eff



Span 4 bay H trans cracks with eff



Span 4 bay G trans cracks with eff



Span 4 bay F map cracks with eff



Span 4 bay E map cracks with eff



Span 4 Bay E patch



Span 4 bay D map cracks with eff



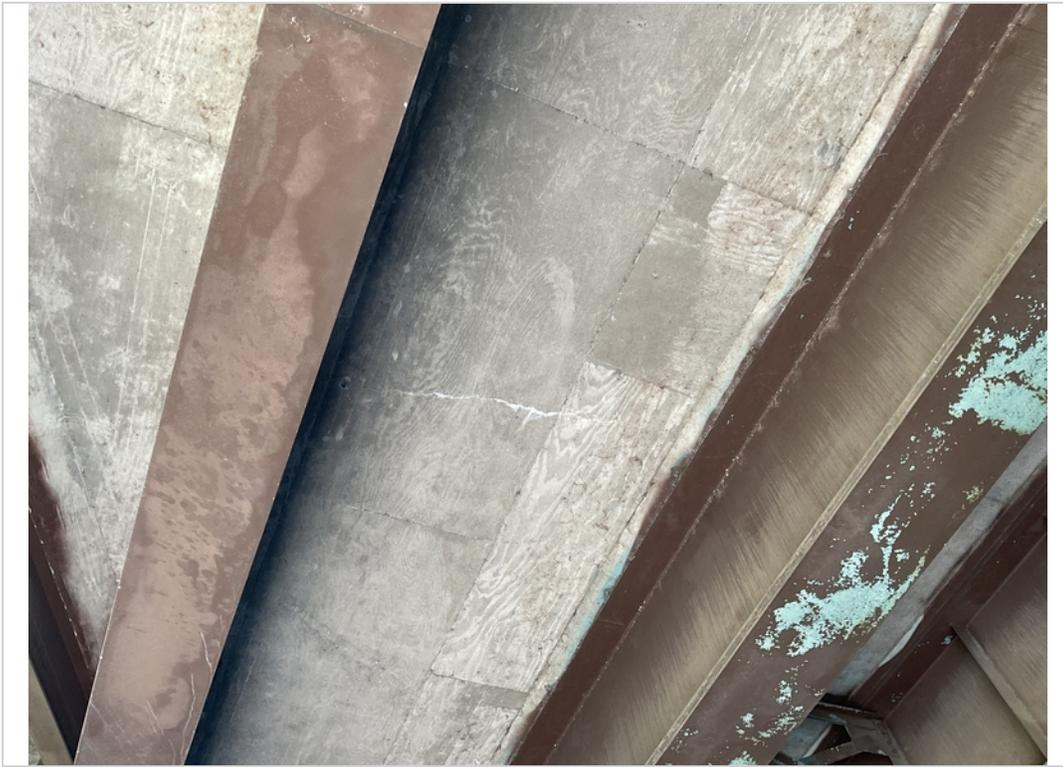
Span 4 bay C patch



Bottom deck span 4



Span 3 bay E spall with exp steel



Span 3 bay B trans crack with eff



Span 3 bay C spall with exp steel



Span 3 bay C map cracks with eff



Span 3 bay D spall with exp steel



Span 3 bay E trans crack with eff



Span 3 bay G trans cracks with eff



Span 3 bay H trans cracks with eff



Span 3 bay I trans cracks with eff



Span 3 bay K trans cracks with eff



Span 3 bay J spall with exp steel



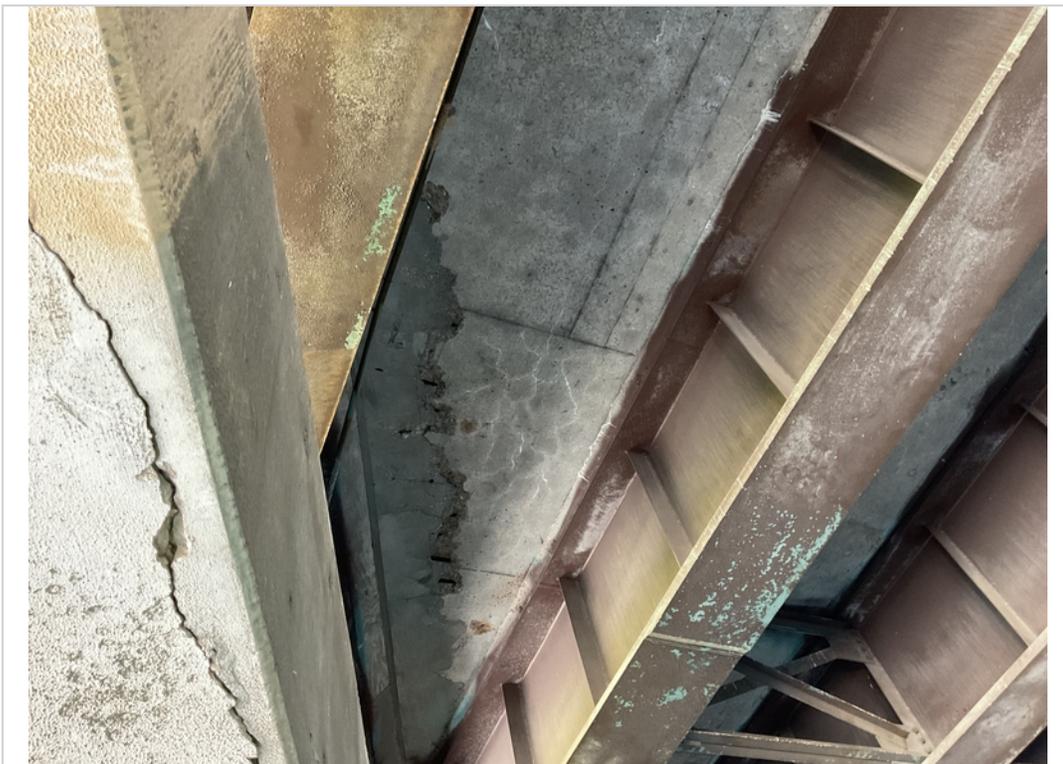
Overhang Span 3 right side trans crack with eff



Span 2 bay N spall with exp steel



Span 2 bay M spall with exp steel



Span 2 bay D spalls with exp steel



Span 2 bay C spalls with exp steel



Bottom deck span 3



Span 2 bay B trans cracks with eff



Span 2 bay C map cracks with eff



Span 2 bay D map cracks with eff



Span 2 bay E map cracks with eff



Span 2 bay F map cracks with eff



Span 2 bay G trans cracks with eff



Span 2 bay H trans crack with eff



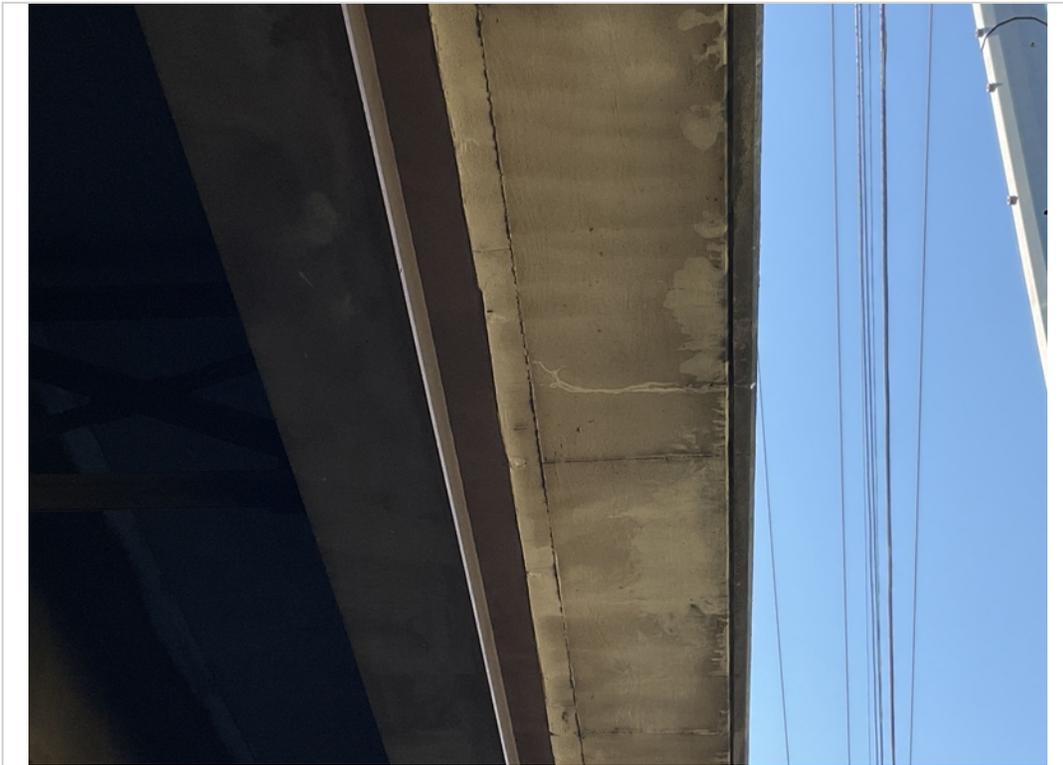
Span 2 bay I trans crack with eff



Span 2 bay J trans cracks with eff



Span 2 bay N trans crack with eff



Overhang span 2 right side trans crack with eff



Bottom deck span 2



Span 2 bay B trans crack with eff



Span 1 bay A trans crack with eff



Span 1 bay C map cracks with eff



Span 1 bay C cracks with eff at top flange



Span 1 bay C spall with exp steel



Span 1 bay C spall with exp steel



Span 1 bay C spall with exp steel



Span 1 bay D map cracks with eff



Span 1 bay D trans crack with eff



Span 1 bay E spall with exp steel



Span 1 bay D spall with exp steel



Span 1 bay F spall with exp steel



Span 1 bay E map cracks with eff



Span 1 bay G trans crack with eff



Span 1 bay H trans crack with eff



Span 1 bay I trans crack with eff



Span 1 bay J trans crack with eff



Span 1 bay J trans crack with eff



Span 1 bay M trans crack with eff



Span 1 bay N trans crack with eff



Span 1 bay O trans crack with eff



Span 1 bay O trans crack with eff



Span 1 bay O spall



Span 1 diaphragm O spalling



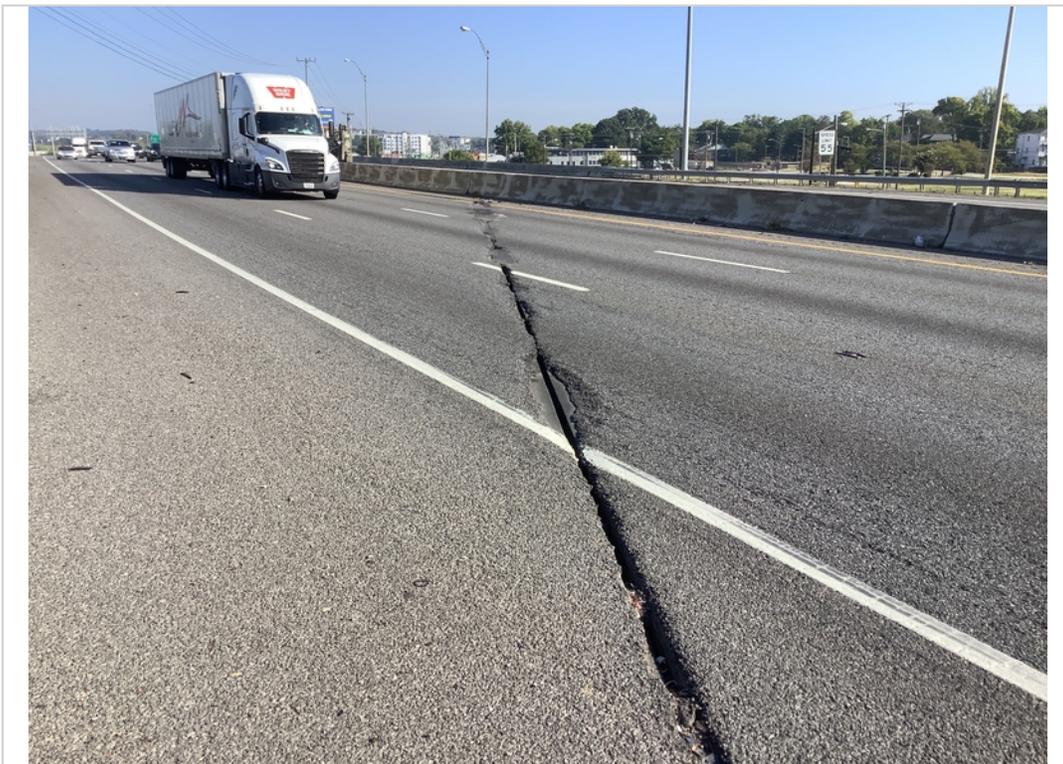
Bottom deck span 1



Expansion joint, span #4, patches, Westbound



Span #4 expansion joint, partially paved over, patches, potholes



Span #3 expansion joint, partially paved over, missing filler, patches



Span #1 expansion joint, partially paved over, patches, potholes



Bearing P abutment 2 corrosion



Bearing q abutment 2 loose nut slid of pad



Bearing C missing bolt corrosion



Bearing D missing bolt



Bearing E missing bolts



Bearing F missing bolt



Bearing F bent bolt



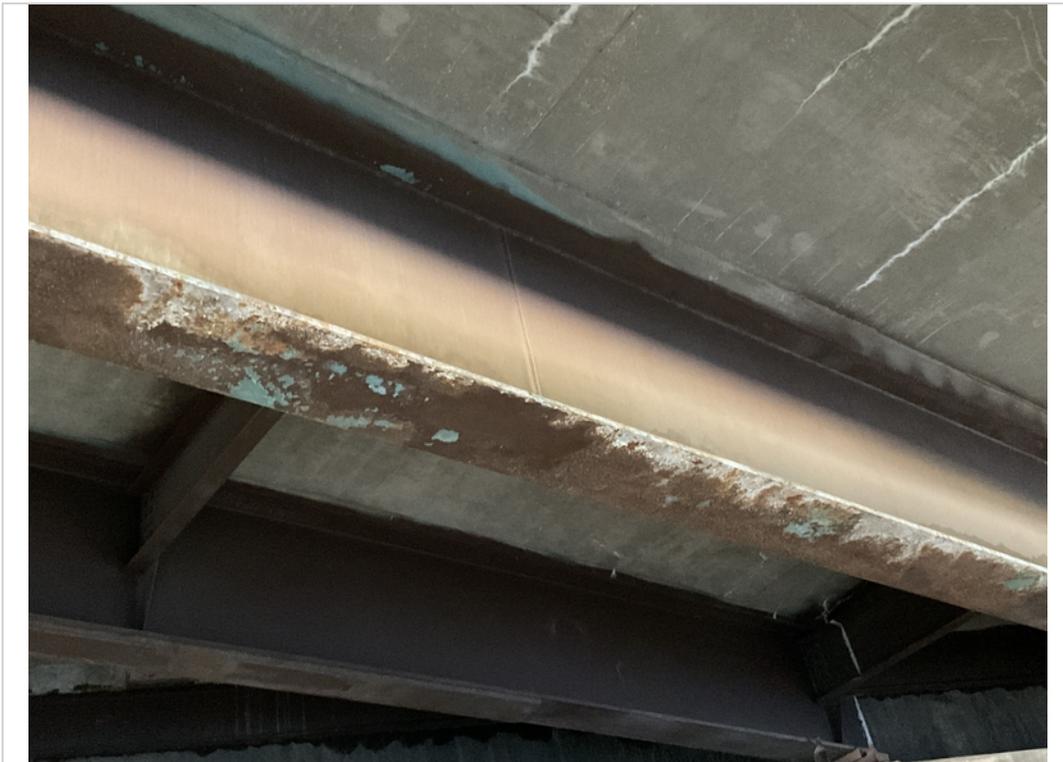
Bearing G loose bolt corrosion



Bearing J loose nut corrosion



Span 4 Girder E corrosion



Span 4 Girder G corrosion with eff



Span 4 Girder K corrosion



Span 4 Girder O corrosion



Span 3 Girder F corrosion



Span 3 Girder D corrosion



Span 3 Girder C corrosion



Span 2 Girder G corrosion



Span 2 Girder P paint peeling



Span 1 Girder G corrosion



Span 1 Girder I heavy corrosion



Span 1 Girder I heavy corrosion bottom flange



Span 1 Girder O paint peeling



Span 1 bay M diaphragm M spalling



Abutment 2 cap map cracks



Abutment 2 cap spall with exposed steel



Abutment 2



Abutment 2 scale



Abutment 1



Abutment 2 backwall spall with exposed steel



Abutment 2 backwall scale



Abutment 2 backwall cracks with eff



Abutment 1 backwall scale



Abutment 2 bearings corrosion typical



Riser at Girder H spall



Riser K spall



Abutment 1 slope pavement erosion



Bent 1 Column B h.c.



Bent 1 front texture coat peel



Bent 3 cap spall with exposed steel



Bent 3 cap spall with exposed steel



Bent 3 cap open crack



Bent 3 cap spall with exposed steel



Bent 3 cap spall with exposed steel



Bent 3 loose concrete on cap



Bent 3 cap spall with exposed steel



Bent 3 cap spall with exposed steel



Bent 2 cap Inplace spalls scale



Bent 2 cap open crack



Bent 2 cap open crack



Bent 2 cap spall with exposed steel



Bent 2 cap open crack at joint



Bent 2 cap crack



Bent 2 cap crack



Bent 2 cap crack



Bent 1 cap spalls with exposed steel



Bent 1 cap spall with exposed steel



Bent 1 cap spall with exposed steel



Bent 1 cap spall



Bent 2 vert. H.C.



Bent 1 column C spall w/exp steel



Bent 1 front map cracks



Bent 3 spall with exposed steel cap



Bent 3 column H spall with exposed steel



Bent 3 frontside



Bent 2 column D spall with exposed steel



Bent 2 column E spall with exposed steel



Bent 2 column M delamination



Bent 2 column N crack



Bent 2 column P spalls with exposed steel



Bent 2 column O cracks



Bent 2 frontside



Bent 1 column D spall with exposed steel



Bent 1 frontside



Bent 3 bearings typical



Bent 2 loose nuts on bearings typical



Bent 1 debris on cap



Abutment 1 trash



Abutment 1 left side heavy vegetation

Maintenance Recommendations

525 - Repair List # N 523 - Repair List Add Date 524 - Repair List Revise Date 9/21/2021

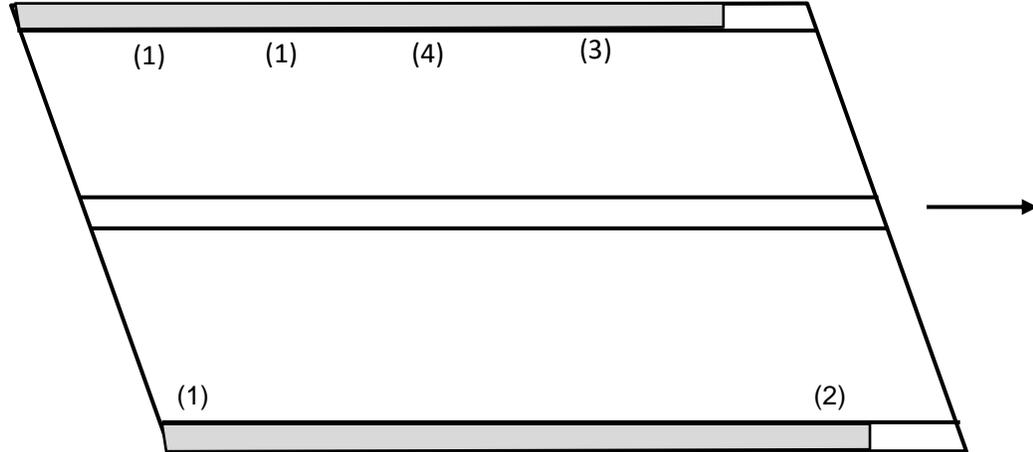
Date Added	Recommendation	Priority
09/25/2015	CLEAN AND PAINT ALL STRUCTURAL STEEL	
09/25/2015	REPLACE ANCHOR BOLTS ON BEARINGS AT BEAM ENDS	
09/25/2015	REPAIR SPALLS, DELAMINATION, AND CRACKS THROUGHOUT SUBSTRUCTURE	
09/20/2019	REPAIR UNDERPASS LIGHTING	3
09/21/2021	REPAIR A/C WEARING SURFACE AT JOINTS	1
09/25/2015	TEXTURE COAT ALL CONCRETE ELEMENTS	
09/21/2017	REPAIR BEARING DEVICES AT ABUTMENTS	
09/25/2015	REPAIR DETERIORATED AREAS IN DECK	
09/25/2015	REMOVE VEGETATION FROM ABUTMENT #1 LEFT SIDE & ABUTMENT #2 RIGHT SIDE	
09/25/2015	REPAIR DETERIORATED CONCRETE ON BENTS	
09/20/2019	REPAIR EROSION AT 'A' END LEFT EMBANKMENT	2
09/19/2023	CLAEN DECK SHOULDERS OF DEBRIS	4
09/19/2023	REPLACE MM SIGN AT SPAN #1 WESTBOUND	5

Approach 'A'

Date 9/19/2023

JMB

Bridge Location No. 19 1024 13.79
 County Route Log Mile



SLAB	NV	PAVED OVER
JOINT	NV	PAVED OVER
PAVEMENT	GOOD	
EMBANKS	POOR	(3) LT. SIDE-EROSION 15' X 10' X 3'DP X 2' UNDER RDWY, (4) EROSION 12' X 10' X 1-2'DP, (2) RT. SIDE-EROSION 10' X 1.5' X UP TO 1'DP
G. RAILS	GOOD	(1) LT. & RT. -LGH IMPACT DMG
PARAPETS	GOOD	

Approach 'B'

Date 9/19/2023
JMB

Bridge Location No. 19 1024 13.79
County Route Log Mile



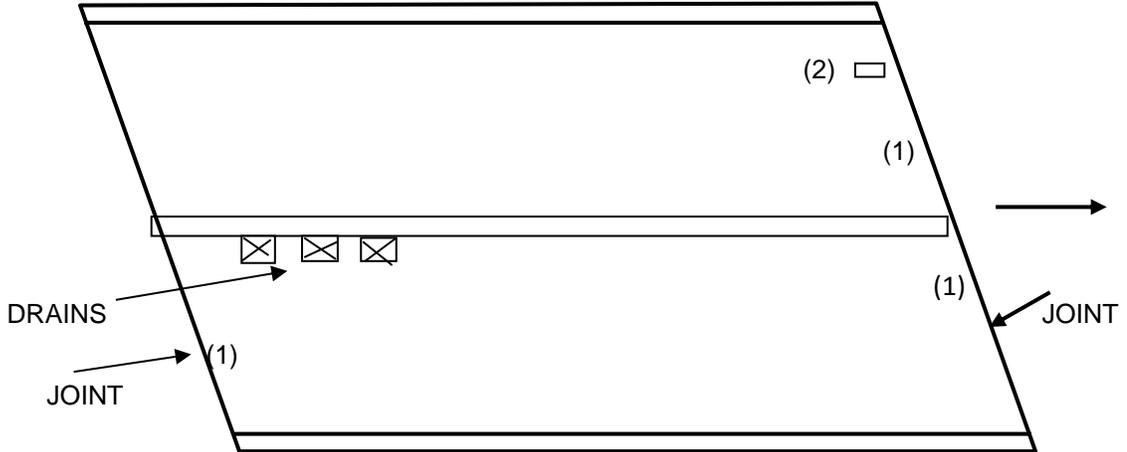
SLAB	NV	PAVED OVER
JOINT	NV	PAVED OVER
PAVEMENT	FAIR	(1) POTHOLE 1.5'D x 3"DP
EMBANKS	GOOD	
DRAIN	GOOD	LT. ONLY
G. RAILS	GOOD	(2) LGT IMPACT DMG
PARAPETS	GOOD	

Top of Deck Span No. 1

Date 9/19/2023

JMB

Bridge Location No. 19 1024 13.79
 County Route Log Mile

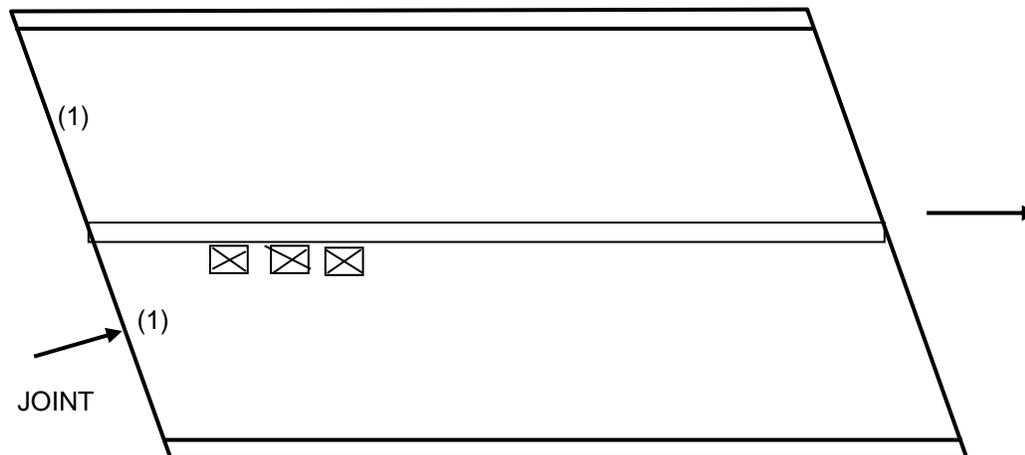


DECK	N/V	A/C OVERLAY - GOOD- (1) POTHOLE/DEPRESSIONS UP TO 2' X 3" X 2" DP., (2) POTHOLE 1' DIA X 2" DP
PARAPETS	GOOD	LGT H.C.'S
MEDIAN		
RAIL	GOOD	RANDOM LIGHT H.C.'S
DRAINS	GOOD	
JOINT	NV	PAVED OVER
LIGHTING	FAIR	LGT-MAP CRACKS @ ANCHOR BOLTS
STANDARD		

Top of Deck Span No. 2

Date 9/19/2023
JMB

Bridge Location No. 19 1024 13.79
County Route Log Mile

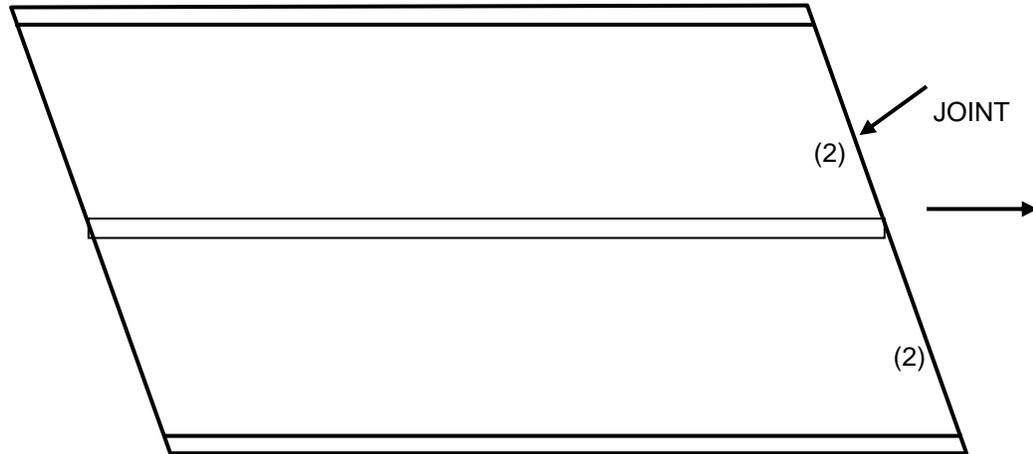


DECK	N/V	A/C OVERLAY-FAIR; (1) POTHOLES UP TO 4' X 1' X 3"DP.
PARAPETS	GOOD	LGT H.C.'S
MEDIAN		
RAIL	GOOD	RANDOM LIGHT HAIRLINE CRACKS
DRAINS	GOOD	
JOINT	NV	PAVED OVER
LIGHTING	FAIR	LGT MAP CRACKS @ ANCHOR BOLTS
STANDARD		

Top of Deck Span No.3

Date 9/19/2023
JMB

Bridge Location No. 19 1024 13.79
County Route Log Mile

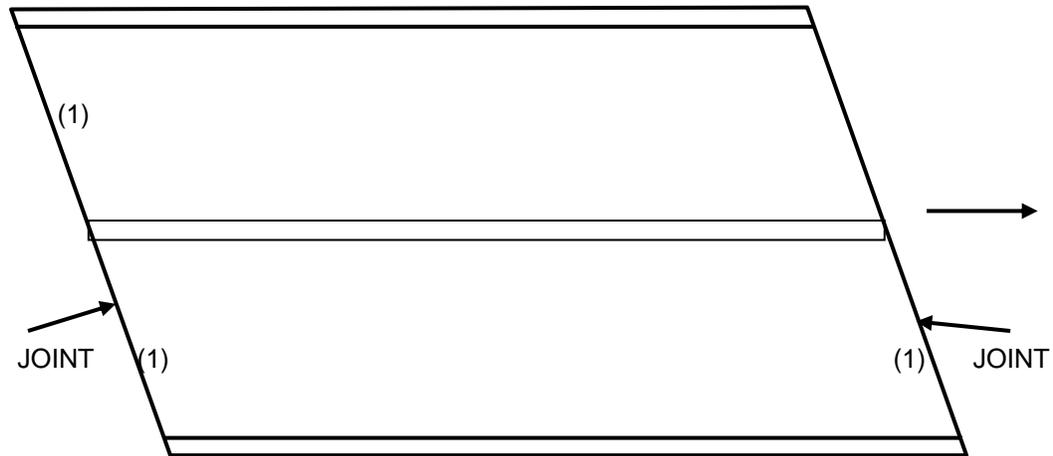


DECK	N/V	A/C OVERLAY-FAIR; (2) POTHOLES UP TO 4' X 6" X 2"DP.
PARAPETS	GOOD	LGT H.C.'S
MEDIAN		
RAIL	GOOD	RANDOM LIGHT HAIRLINE CRACKS
DRAINS	GOOD	
JOINT	NV	PAVED OVER
LIGHTING	FAIR	LGT MAP CRACKS @ ANCHOR BOLTS
STANDARD		

Top of Deck Span No.4

Date 9/19/2023
JMB

Bridge Location No. 19 1024 13.79
County Route Log Mile

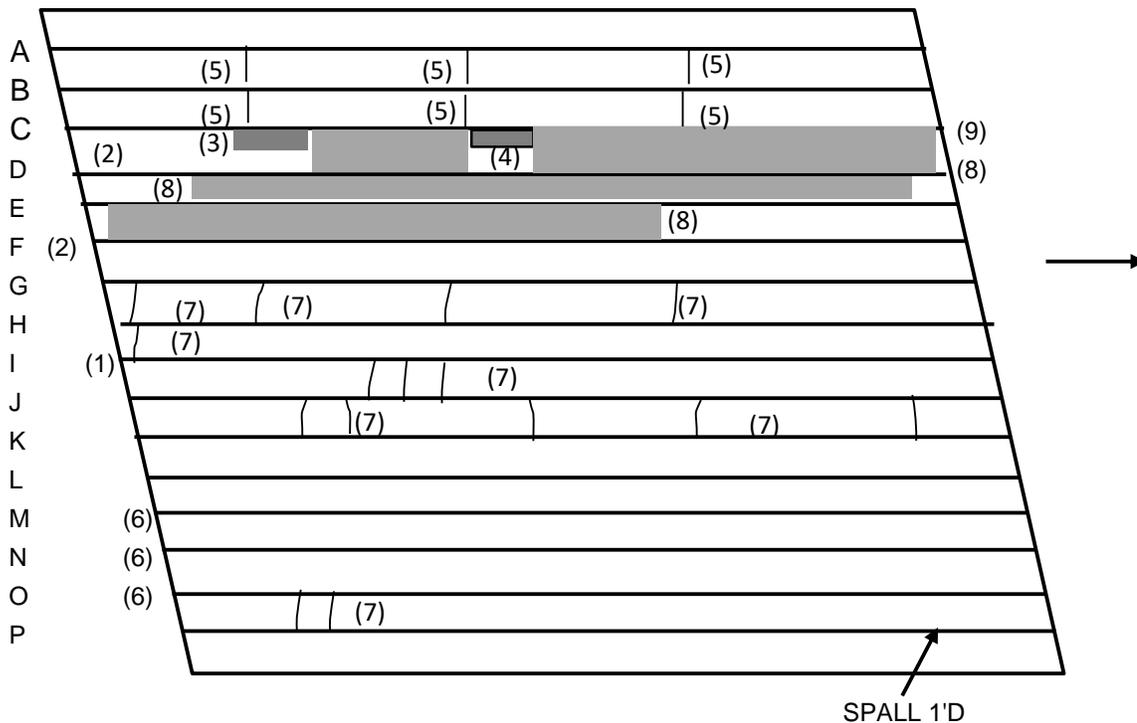


DECK	N/V	A/C OVERLAY-FAIR; (2) POTHOLES UP TO 3' X 10" X 3"DP.
PARAPETS	GOOD	LGT H.C.'S
MEDIAN		
RAIL	GOOD	RANDOM LIGHT HAIRLINE CRACKS
JOINTS	NV	PAVED OVER
LIGHTING	FAIR	LGT MAP CRACKS @ ANCHOR BOLTS
STANDARD		

Bottom of Deck Span No. 1

Date 9/19/2023
HA

Bridge Location No. 19 I0024 13.79
County Route Log Mile



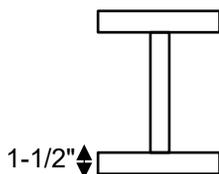
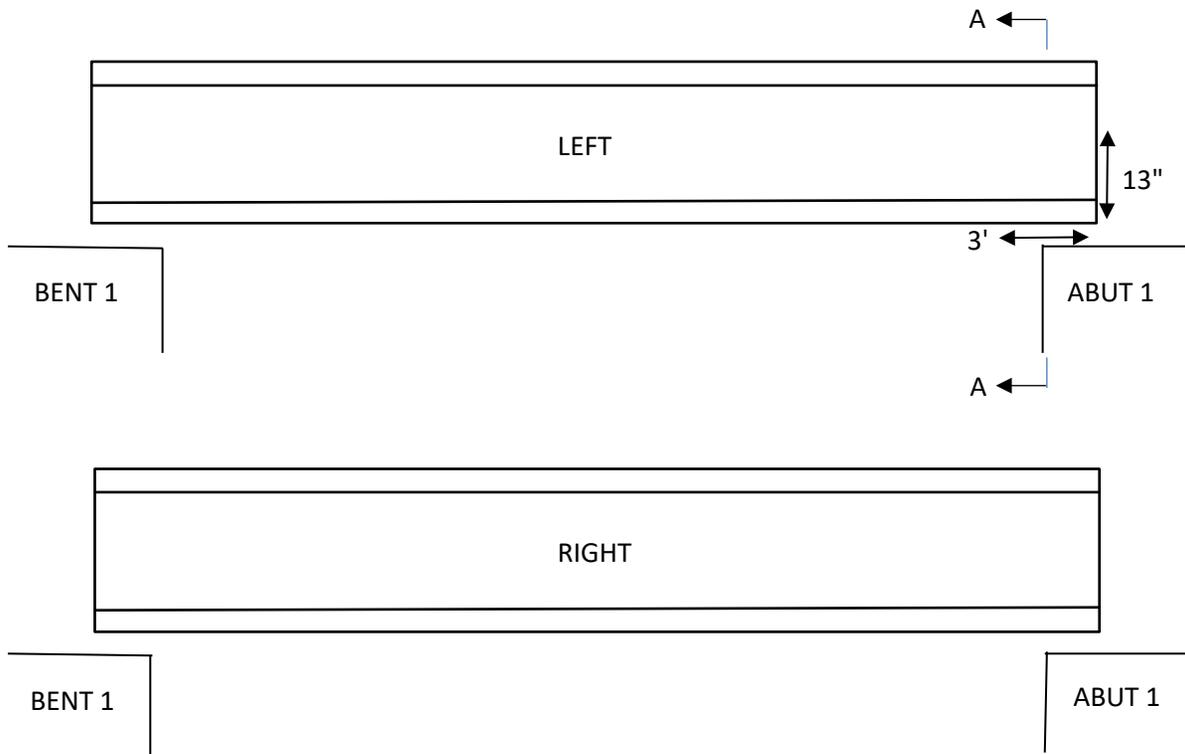
DECK	FAIR	(7) TRANSV H.C.'S W/EFFL, (8) H.L. MAP CRACKS W/EFF., (2) SPALL W/EXP STL UP TO 2.5'L X 1'W X 3"DP; (3) SPALL W/EXP STL 2'W X 2'L X 3"DP, (4)SPALL 3'L X 4" W X 1"DP. W/EXP. STL., (5) TRANSV. H.C.'S (6) SPALL UP TO 2.5' X 1' X 1.5"DP
DIAPHRAGMS	GOOD	
BEAMS	FAIR	SURFACE RUST
"I"	FAIR	(1) ABUT 1--HVY CORR 3'L BOT FLANGE/WEB W/LGT SEC LOSS
"C"	FAIR	(9) LGH-MOD CORR. @ BENT 20'L-BOTT FLANGE
"D"- "G"	GOOD	LGH CORR @ BENT UP TO 15'L
PAINT	POOR	FADING, CHAULKING & PEELING
OVERHANGS	GOOD	

DETAIL OF STEEL GIRDER 'I'

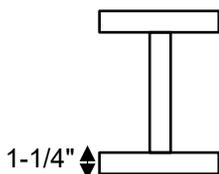
Date 9/19/2023

Bridge Location No. 19 I-24 13.79
 County Route Log Mile

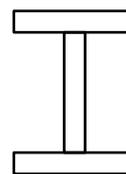
SPAN	1
BEAM	I



ORIGINAL



X-SECTION
A-A



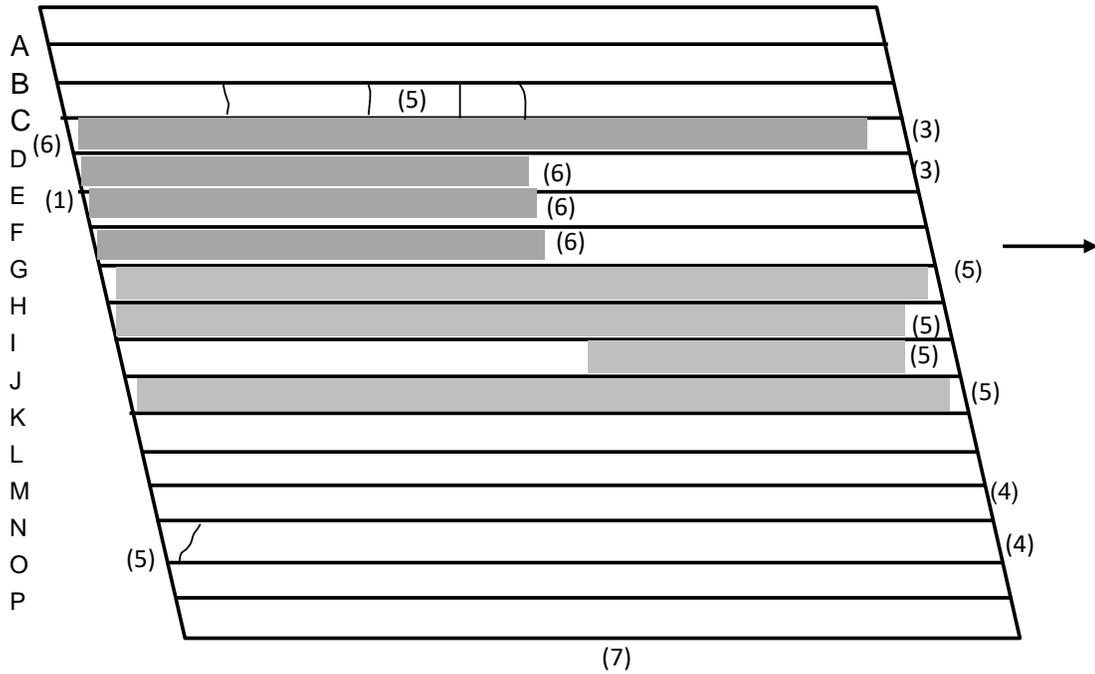
X-SECTION

PROBLEM AREAS
SECTION LOSS DOWN TO 1-1/4" REMAINING, 36" L X 13" H

Bottom of Deck Span No. 2

Date 9/19/2023
HA

Bridge Location No. 19 I0024 13.79
County Route Log Mile

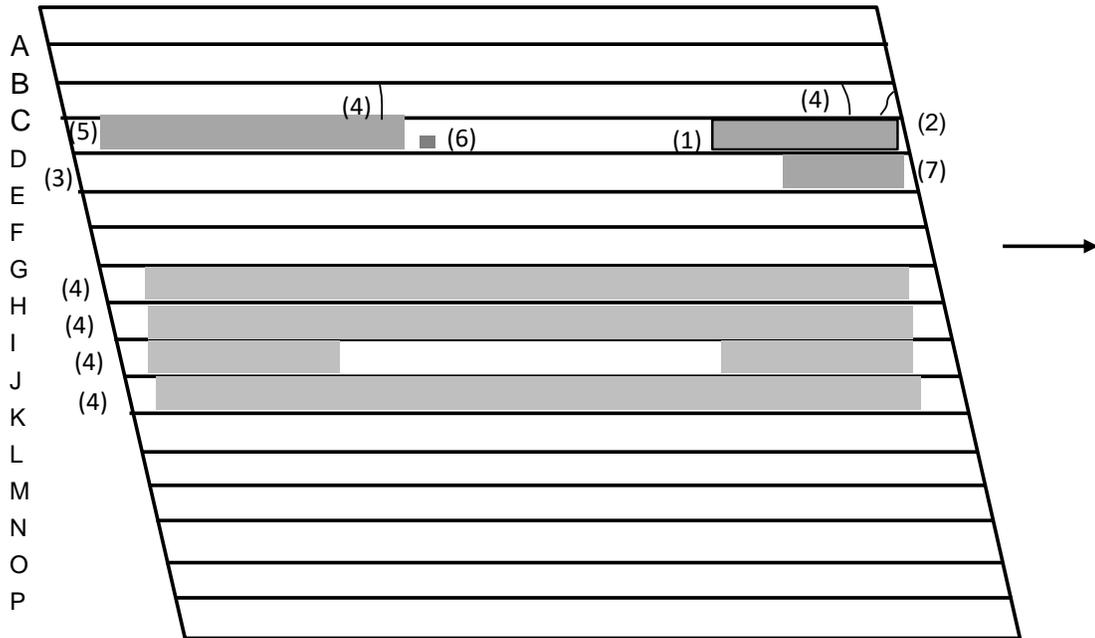


DECK	FAIR	(5) TRANS HCs W/EFF; (1) SPALLS/IP SPALL W/EXP STL 4'D X 3"DP BENT 2--PATCHES; (6) H.L. MAP CRACKS W/ EFF. MAP CRACKS W/EFF 2.5'L AREA, (3) SPALL W/EXP STL UPTO 2'L X 10"W X 3"DP, (4) SPALL W/EXP STL. 4' X 10" X 1/2"DP BENTS--RDM PATCHES
DIAPHRAGMS	GOOD	
BEAMS	FAIR	LGT-MOD CORR.
"P"	FAIR	(7) PAINT PEELING 4'L X 3'H
PAINT	POOR	FADING, CHAULKING, PEELING
OVERHANGS	GOOD	

Bottom of Deck Span No.3

Date 9/19/2023
HA

Bridge Location No. 19 I0024 13.79
County Route Log Mile

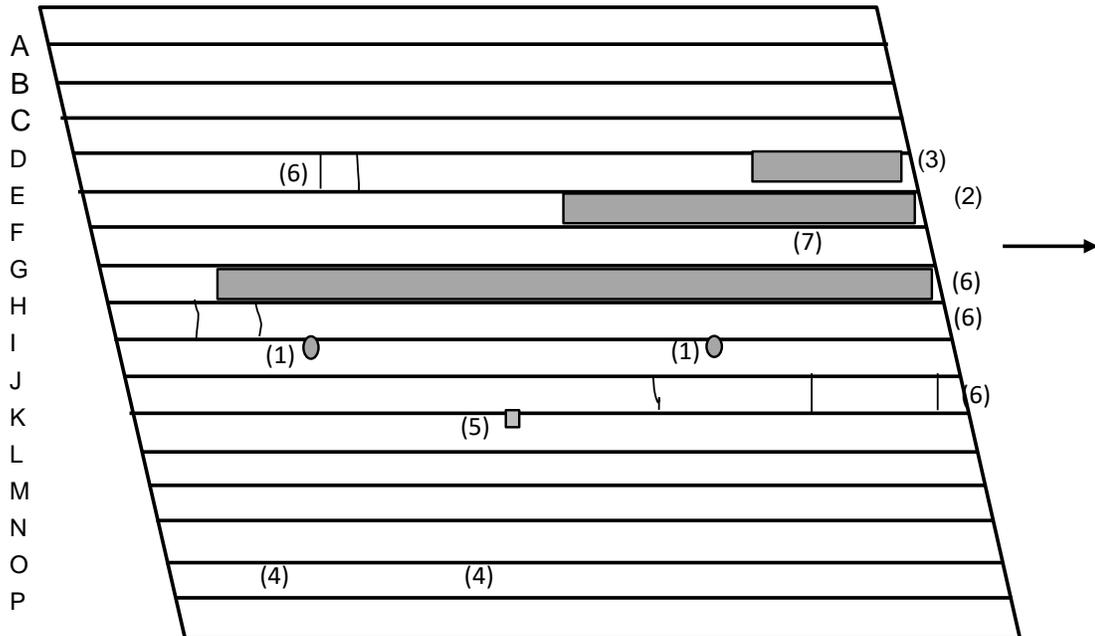


DECK	FAIR	(4) TRANSV H.C.'S W/EFFL, (1) HVY MAP CRACKS W/EFF 40'L, (5) HVY MAP CRACKS W/EFF 32'L, (6) SPALL 1' DIA X 2"DP W/EXP. STL., (7) H.L. MAP CRACKS W/EFF 20'L, (2) HVY MAP CRACKS W/EFF. 32'L, (3) SPALLS W/EXP. STL. UP TO 8' X 1' X 1/2"DP BENTS--RDM PATCHES
DIAPHRAGMS	GOOD	LGT PAINT PEELING
BEAMS	FAIR	LGH.-MOD. SURFACE RUST
PAINT	POOR	CHAULKING, FADING, PEELING
OVERHANGS	GOOD	RDM TRANS CRACKS W/EFF

Bottom of Deck Span No.4

Date 9/19/2023
HA

Bridge Location No. 19 I0024 13.79
County Route Log Mile



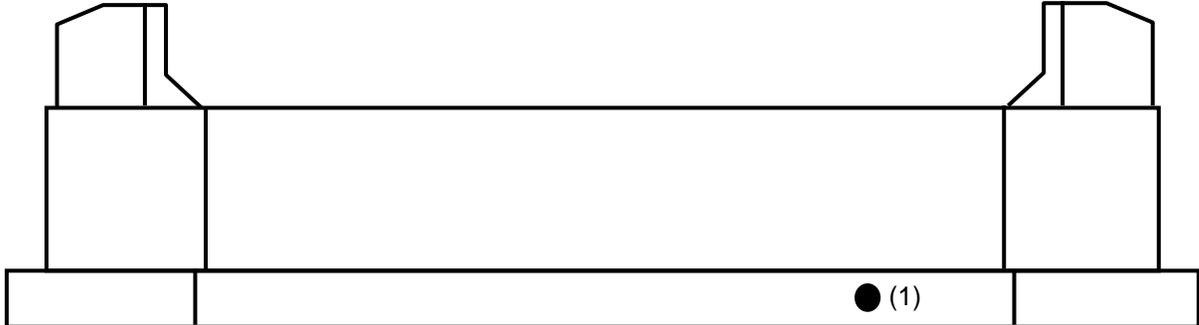
DECK	FAIR	(6) TRANSV H.C.'S W/EFFL (1) DRAIN PIPES W/EFF, BAY 'D' & 'E' HAVE H.L. MAP CRACKS W/ EFF. (2) HVY MAP CRACKS W/EFF, 2.5'L (3) HVY MAP CRACKS W/EFF 12'L, (5) SPALL 10"DIA X 1.5"DP, (7) GROUT PATCHES UP TO 3' X 1'
DIAPHRAGMS	FAIR	L/M PAINT PEELING
BEAMS	FAIR	LGT SURFACE RUST
"O"	FAIR	(4) MOD CORR UP TO 20'L, MOD PAINT PEELING
PAIN	POOR	FADING, CHAULKING, PEELING
OVERHANGS	GOOD	RDM TRANS HCs W/EFF

Abutment No. 1

Date 9/19/2023

Bridge Location No. 19 I0024 13.79
 County Route Log Mile

RK
 JH



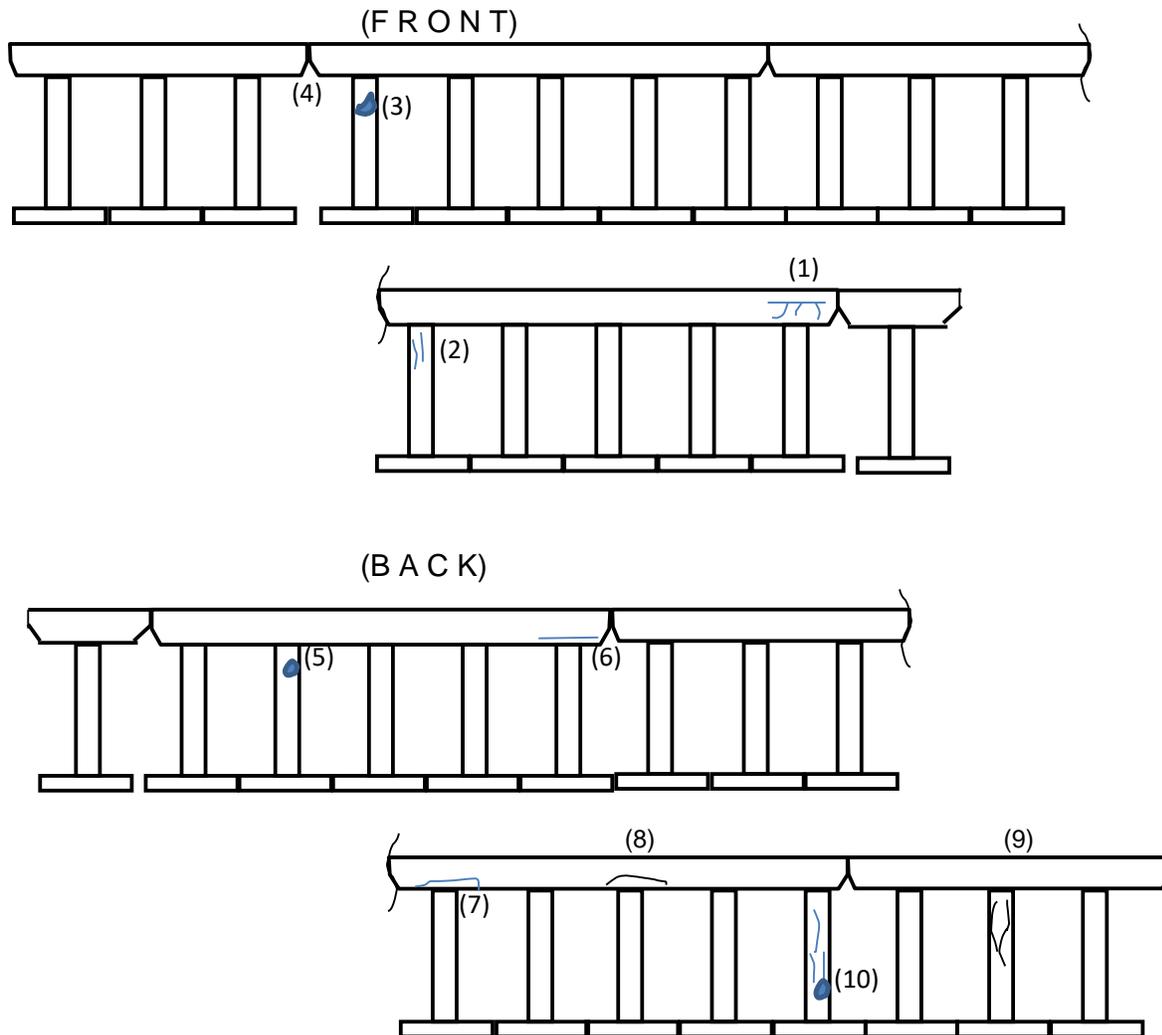
BACKWALL	GOOD	HEAVY WATER STAINS TYPICAL, RANDOM VERT H.C.'S, I.P.B.O.'S UPTO 2' DIA, MOD SCALE ON TOP OF WALL
CAP	GOOD	HEAVY WATER STAINS, VERT H.C.'S, H.S.P.O.'S, (1) IN-PLACE SPALL 1' DIA.
WINGS	GOOD	
BEARINGS	FAIR	LIGHT CORROSION
"C, D"	FAIR	MOD. CORROSION
"D, E"	FAIR	MISSING BOTH BOLTS
"K"	FAIR	MOD CORR, LOOSE BOLT; BRGs G,F,J--LOOSE BOLT
"F"	FAIR	MOD CORR; BRGs C,F--MISSING BOLT
RISERS	GOOD	SPALL @ BEAM 'H' 2'L X 1'H X 2"DP
SLOPE- PAVEMENT	GOOD	HEAVY TRASH

BENT # 1

Date 9/19/2023

Bridge Location No. 19 I0024 13.79
 County Route Log Mile

RK
 JH



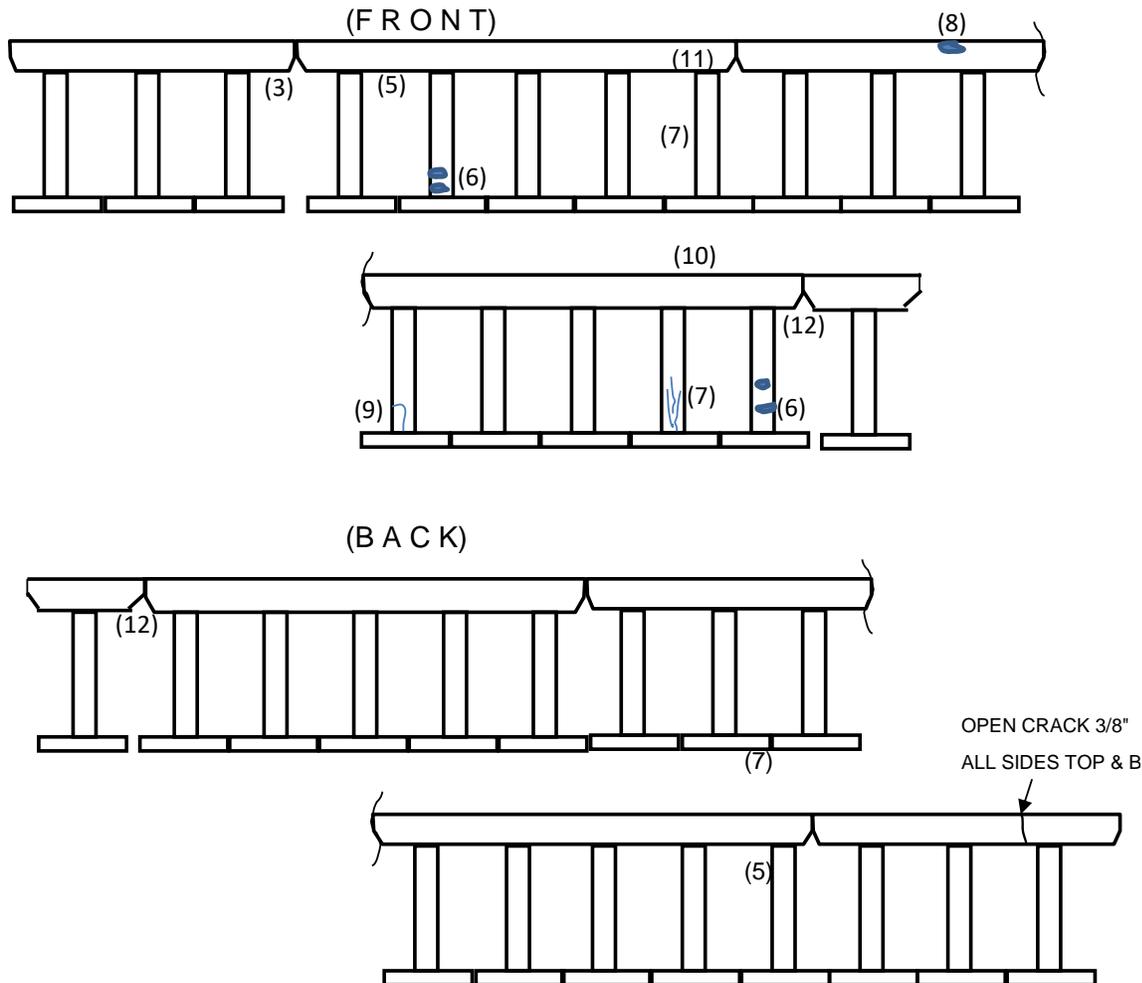
CAP	GOOD	JOINTS--HCs W/ TEX COAT PEELING, DEBRIS ON TOP; TYPICAL--HVY WATER STAINS; (1) MAP CRACKS W/EFF COL 'G'--FAIR--RDM HORIZ HCs UP TO 3'L; COL 'L&I'--SPALL W/EXP STL 2'L X 8"W X 1.5"D; UNDER CAP--SPALLS W/EXP STL;
COLUMNS	FAIR	(3) I.P.B.O. 3' H X 2' W (2) VERT. 1/8" OPEN CRACKS & DELAM. (4) SPALL 1.5' L X 4" W X 1/2" DP (5) I.P.B.O. 6" DIA. (6) LONGIT. CRACK & I.P.B.O. (7) SPALL W/EXP. STL. 8" DP. (8) I.P.B.O. 3'L X 1'W, VERT CRACKS UPTO 3'L, (9) VERT CRACKS 3'L, (10) I.P.B.O. 4'L X 1'H; RDM TEX COAT PEELING
BEARINGS	FAIR	MOD CORR

BENT # 2

Date 9/19/2023

Bridge Location No. 19 I0024 13.79
 County Route Log Mile

RK
 JH



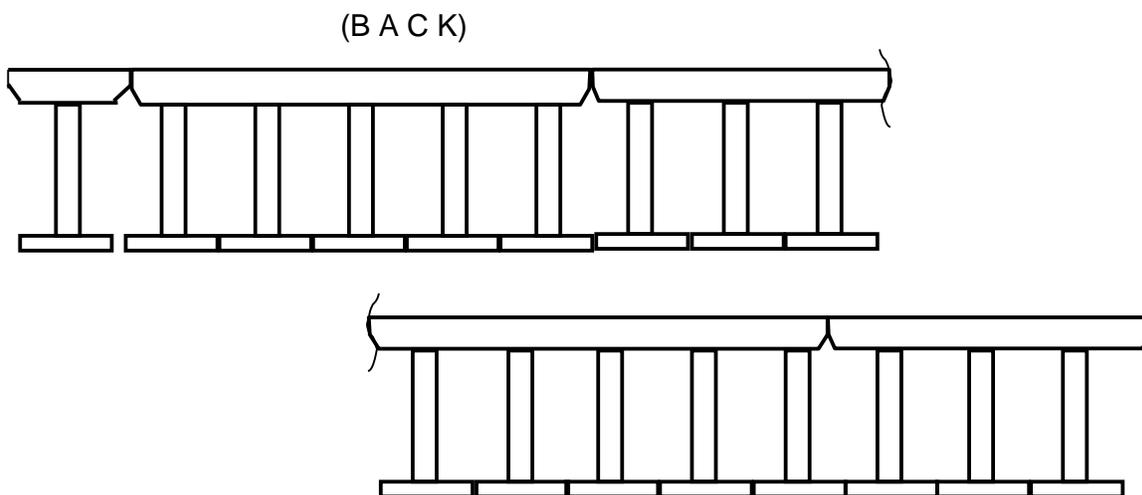
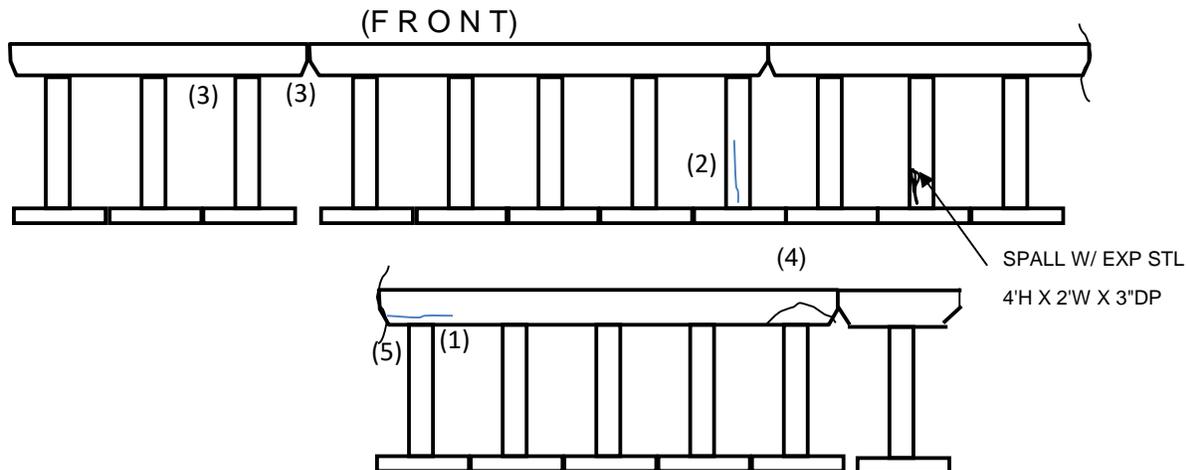
CAP	POOR	(5) HORIZ. CRACKS UP TO 1/2" OPEN X 20'L W/SPALL W/EXP. STL. 2'L X 1'W X 1"DP, CRACKS UP TO 3" OPEN @ JOINT AREAS (8) SPALL 1' L X 4" H X 1" DP, (10) LONGIT. CRACK 3'L (3) SPALL 1.5' X 4"W X 1/2" DP, (12) 1/4" CRACK, (4) I.P.B.O. 1' DIA. (11) SPALL 2'L x 2'W x 2" DP; RDM IP SPALLS UP TO 2'L X 1'W
COLUMNS	FAIR	(9) I.P.B.O. 2'H X 2'W & DELAM; HVY GUANO BASE OF COLUMNS (6) SPALLS UPTO 1' L X 1' H X 1/2" DP W/ EXP. STL. (7) VERT. CRACKS 5' L , VERT CRACKS U TO 1./16" OPEN
BEARINGS	FAIR	LGH-MOD CORR; LOOSE NUTS--BRGs 'P,O,L'

BENT # 3

Date 9/19/2023

Bridge Location No. 19 I0024 13.79
 County Route Log Mile

RK
 JH



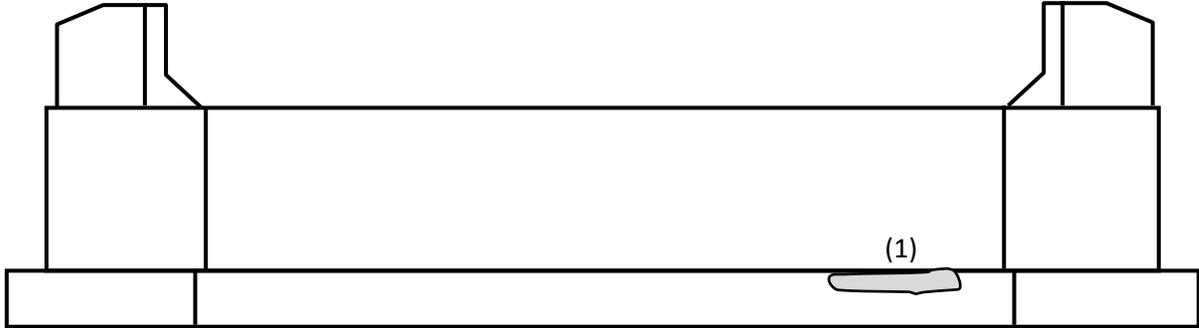
CAP	GOOD	(1) HORIZ. CRACK 1/8" OPEN X 3' L (3) SPALL W/EXP STL. UP TO 1.5' DIA X 1" DP. HVY WATER STAINS, RANDOM I.P.B.O.'S (4) SPALL W/EXP. STL. 5'L X 2'H X 4"DP. (5) SPALLS W/EXP. STL. & LGH SECT. LOSS UP TO 2'L X 1'W X 2"DP., MOD. TEXT. COAT PEELING, FALLEN CONCRETE AT COLUMN 'P', MOD DEBRIS ON TOP OF CAP
COLUMNS	GOOD	TEXTURE COAT PEELING (2) VERT. CRACKS UPTO 1/8" OPEN-5'H
FOOTING	N/V	
BEARINGS	FAIR	MOD CORR

Abutment No. 2

Date 9/19/2023

Bridge Location No. 19 I0024 13.79
 County Route Log Mile

RK
 JH

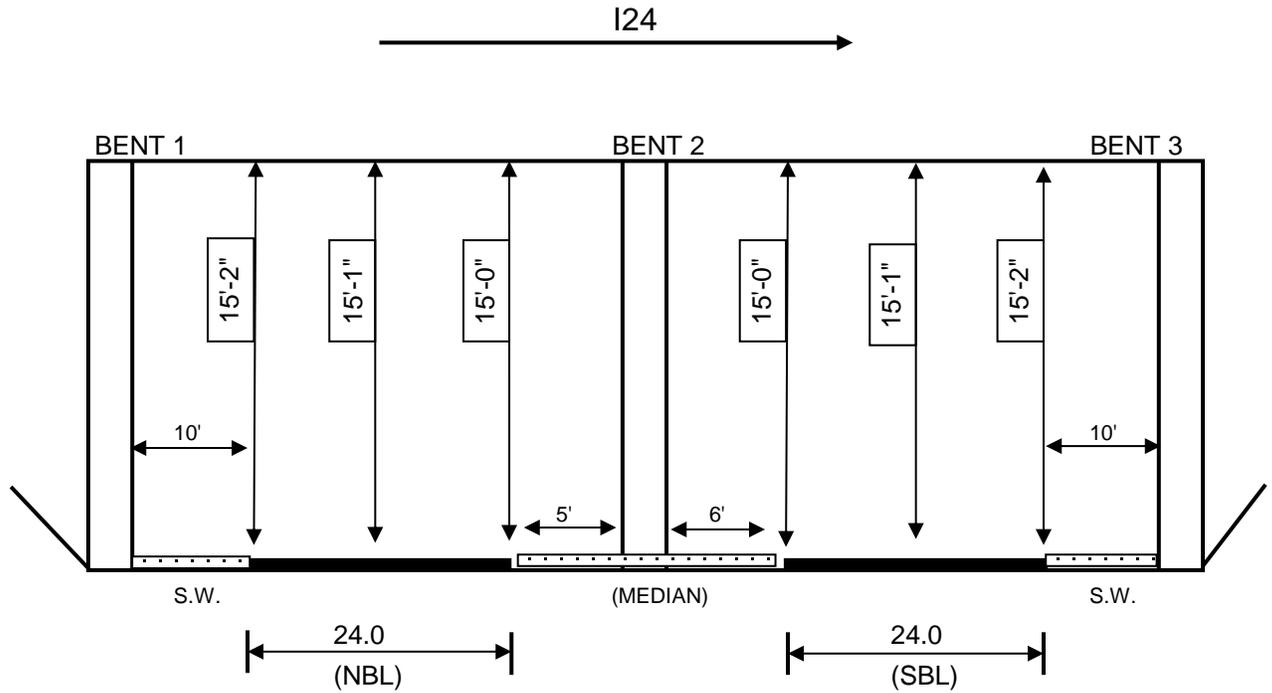


BACKWALL	GOOD	RANDOM SCALE W/ MOD.- HVY. WATER STAINS
		RANDOM HORIZ/VERT H.C.'S
CAP	GOOD	(1) MOD SCALE UP TO 8'L X 2"D WITH DEBRIS BUILD UP AT VARIOUS
		AREAS, RANDOM HORIZ./VERT. H.C.'S
WINGS	GOOD	
BEARINGS	FAIR	MOD/HVY CORROSION, MISSING BOLT AT BM 'N' & 'O' MEMBRANE
		90% OFF AT BEAM 'Q'

CLEARANCE SKETCH

Date 9/19/2023

Bridge Location No. 19 I0024 13.79
County Route Log Mile



U.P. 19-3266-0.04