



Latitude:35.07304, Longitude:-90.29395

Route:147 Section:01 Log:10.23

Arnold Road ID:18x147x1xA, Arnold Log mile:10.232

District 01, 35 - Crittenden County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

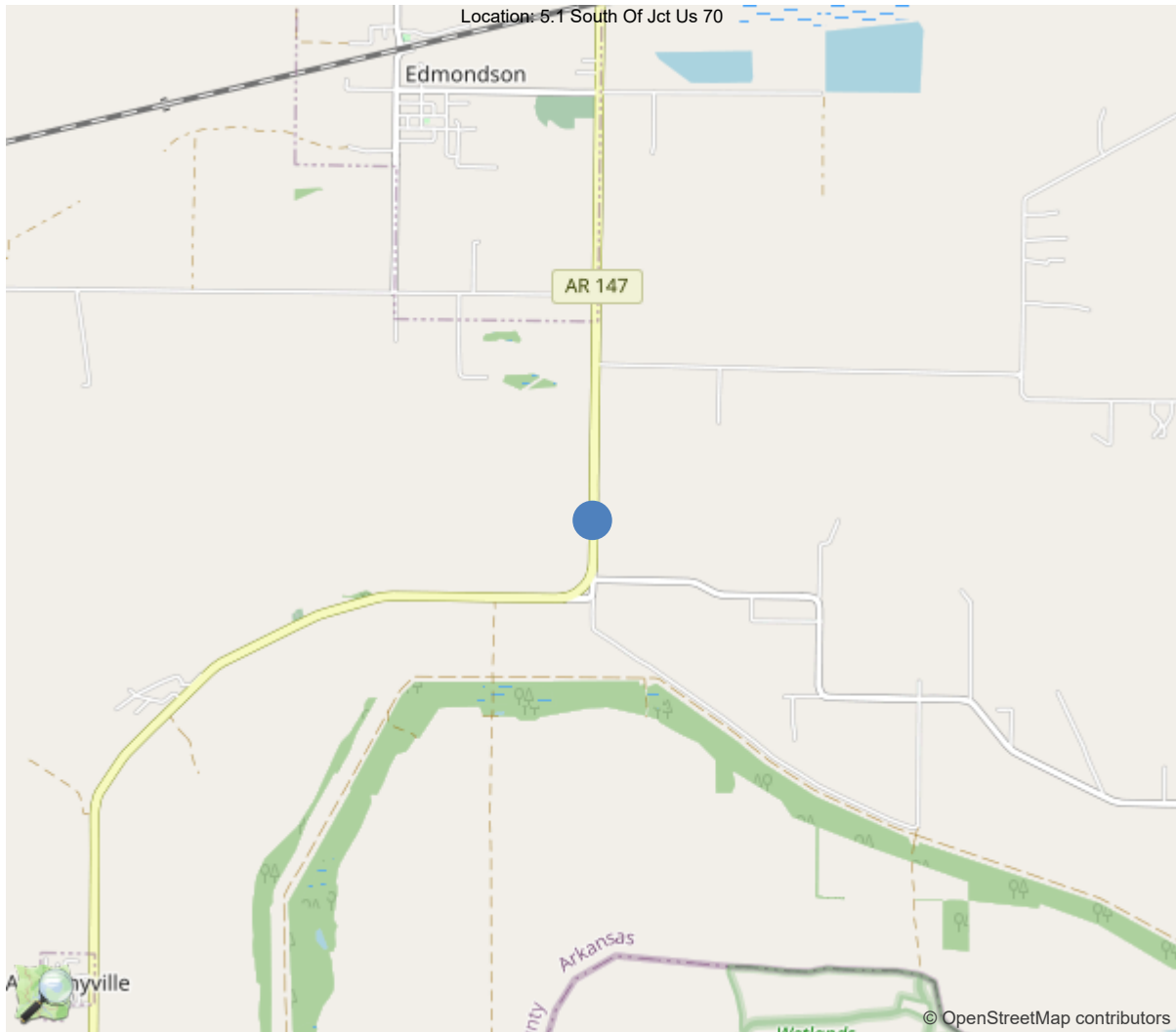
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	46		
Code 5 (40 Tons)	57		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.07304, -90.29395



Asset #05748(Routine, Underwater type 2)

Sh147/Sec-1/L10.23 over Ten Mile Bayou

Location: 5.1 South Of Jct Us 70

Team Lead: Drew Melton Inspection Date: 01/08/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05748
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	35 - Crittenden County
(4) Place Code	0
(6) Features Intersected	Ten Mile Bayou
(7) Facility Carried	Sh147/Sec-1/L10.23
(9) Location	5.1 South Of Jct Us 70
(11) Mile Point	10.23 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000147010
(16) Latitude	35.07304
(17) Longitude	-90.29395
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1979
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	2397
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43.6 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	6 - Rural Minor Arterial
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	6
(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	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	36
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined to
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	2966
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	01/08/2024		
(91) Frequency	48		
(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 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.			



Asset #05748(Routine, Underwater type 2)

Sh147/Sec-1/L10.23 over Ten Mile Bayou

Location: 5.1 South Of Jct Us 70

Team Lead: Drew Melton **Inspection Date:** 01/08/2024

General Observation

Drawing numbers: 22035-38.

01/08/2024 Underwater type 2 preformed at no water condition and took a channel profile from both sides of bridge.

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Deck is a slab so deck and superstructure are rated the same. Deck is in good condition with an asphalt overlay. Soffit-under surface has minor cracks.

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Superstructure is a slab so deck and superstructure are rated the same. Superstructure is in good condition with some cracks in the side of the slab.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Substructure is in good condition with some minor spalls and delaminated areas on caps.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)
Channel has good alignment with structure. Banks are vegetated and are in good condition. Channel has vegetation and debris in it with some restriction to water flow rate.

A-55 - Deck Washing Needed (Y)

Gutters have dirt and debris in them with drains blocked not allowing water to run off of bridge.

A-63 - Missing/Incorrect Log Mile Signage (Y)

Log mile signs are incorrect and should read Sh-147, Section-1, Log mile 10.23.

A-64 - Vegetation Removal Requested (Y)

Small trees and vegetation is growing beside and under bridge.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3839	3658	181	0	0
1080	Delamination/Spall/Patched Area	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	180	0	180	0	0
1130	Cracking (RC and Other)	SF	180	180	0	0	0
510	Wearing Surfaces	SF	3600	3425	15	160	0
3210	Delam/Spall/Patched Area/Pothole	SF	15	0	15	0	0
3220	Crack (Wearing Surface)	SF	160	0	0	160	0
(38) Asphalt is cracked at bents and have several shallow spalls at joints.							
All spans have open longitudinal crack at center line with areas of light efflorescence in soffit-under surface. Slabs at bents have diagonal cracks with efflorescence Sides of slabs have vertical hairline cracks spaced one foot apart. Span #3 slab right side at bent #3 has small spall.							
215	Reinforced Concrete Abutment	LF	109	94	15	0	0
6000	Scour	LF	15	0	15	0	0
(215) Abutment #1 cap left side undermined up to two-inches for fifteen feet.							
227	Reinforced Concrete Pile	EA	12	12	0	0	0
234	Reinforced Concrete Pier Cap	LF	85	81	4	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
(234) Bent #2 cap ahead face left end has two foot spall with exposed rebar. Bent #3 cap left end back face has a one foot delaminated area at top and right end , top corner is spalled with no exposed rebar.							
301	Pourable Joint Seal	LF	174	12	0	162	0
2350	Debris Impaction	LF	162	0	0	162	0
(301) Joint material has failed allowing non compressibles to enter.							
331	Reinforced Concrete Bridge Railing	LF	180	175	5	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	4	0	4	0	0
(331) Span #3 left bridge rail has four small pieces of exposed rebar due to poor concrete coverage. Span #3 right side end of concrete rail spalled on outside with no exposed rebar.							



Side view-elevation



Typical soffit-under surface



Typical deck



Channel under bridge



Channel right side



Channel left side



Top view-inventory



Typical debris in gutters



Typical log mile sign



Typical vegetation



Typical soffit-under surface crack in center with efflorescence



Typical side of slab crack at bents.



Abutment #1 cap undermining



Bent #2 cap ahead face right end



Typical joint



Abutment #2 right side at end of bridge

Maintenance Needs

Date Reported: 01/27/2014

Priority: D- Routine

Type of Work: Replace (General)

Status: Monitor

Component: Approach

Deficiency Description

Abutment #2 left approach rail has collision damage sixty feet from bridge end and also at terminal end.
Abutment #2 right approach rail six feet from bridge end approach rail has collision damage.

Remarks



Abutment #2 right approach rail



Abutment #2 left side approach rail

Maintenance Needs

Date Reported: 01/05/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Overlay at joints has several shallow spalls.

Remarks



Span #3 right lane overlay at joint has a one foot long by five inch wide shallow spall



Bent #2 overlay at joint has several shallow spalls



Asset #05748(Routine, Underwater type 2)

Sh147/Sec-1/L10.23 over Ten Mile Bayou

Location: 5.1 South Of Jct Us 70

Team Lead: Drew Melton **Inspection Date:** 01/08/2024

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 - Missing/Incorrect Log Mile Signage	Yes
A-64 - Vegetation Removal Requested	Yes

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed (Yes)

Gutters have dirt and debris in them with drains blocked not allowing water to run off of bridge.



Typical debris in gutters

A-56 - Joint Cleaning/Flushing Needed

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage (Yes)

Log mile signs are incorrect and should read Sh-147, Section-1, Log mile 10.23.



Typical log mile sign

A-64 - Vegetation Removal Requested (Yes)

Small trees and vegetation is growing beside and under bridge.



Typical vegetation



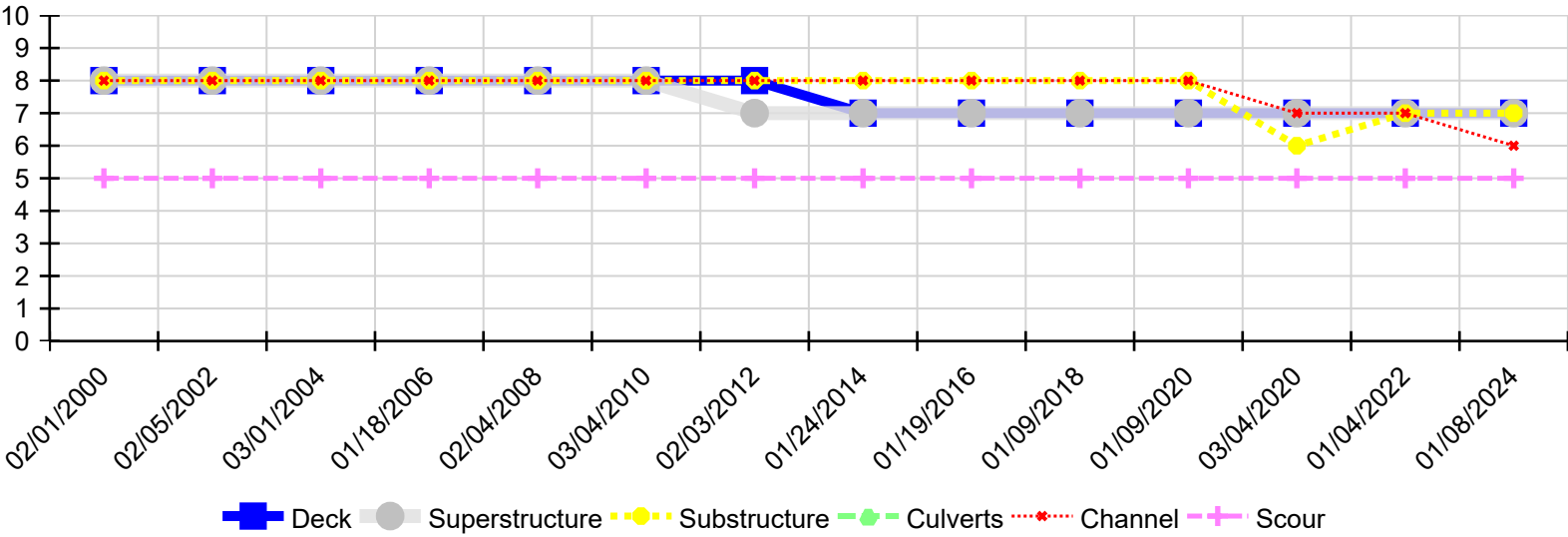
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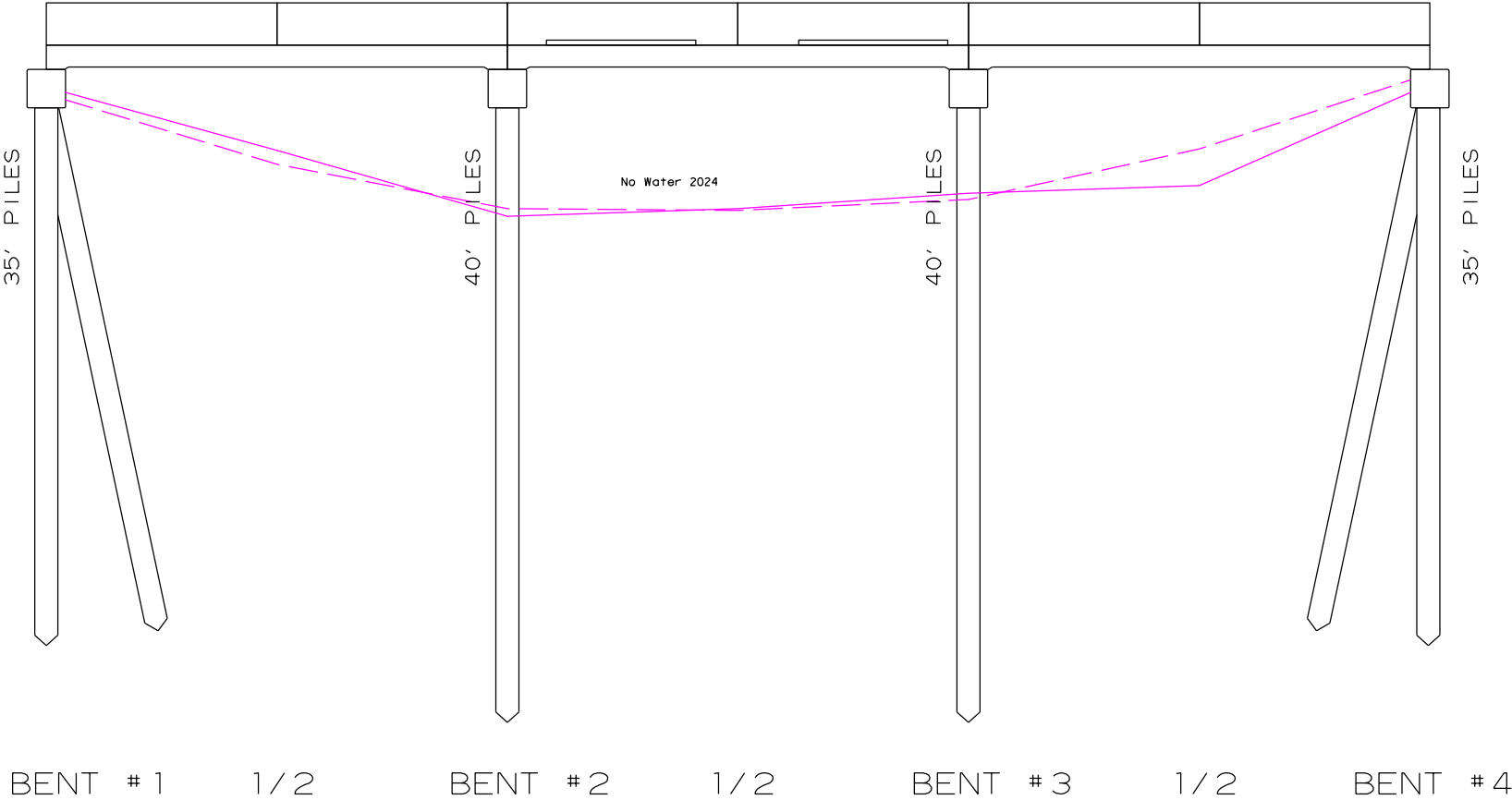
Team Lead: Drew Melton Inspection Date: 01/08/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
01/08/2024	7	7	7	N	6	5
01/04/2022	7	7	7	N	7	5
03/04/2020	7	7	6	N	7	5
01/09/2020	7	7	8	N	8	5
01/09/2018	7	7	8	N	8	5
01/19/2016	7	7	8	N	8	5
01/24/2014	7	7	8	N	8	5
02/03/2012	8	7	8	N	8	5
03/04/2010	8	8	8	N	8	5
02/04/2008	8	8	8	N	8	5
01/18/2006	8	8	8	N	8	5
03/01/2004	8	8	8	N	8	5
02/05/2002	8	8	8	N	8	5
02/01/2000	8	8	8	N	8	5

READINGS TAKEN FROM SIDE OF BRIDGE, TOP OF BRIDGE RAIL



01/08/2024 Left	6.3'	10.5'	13.4'	13.5'	12.8'	9.5'	5.0'
01/08/2024 Right	5.8'	9.6'	13.9'	13.4'	12.4'	11.9'	5.8'