



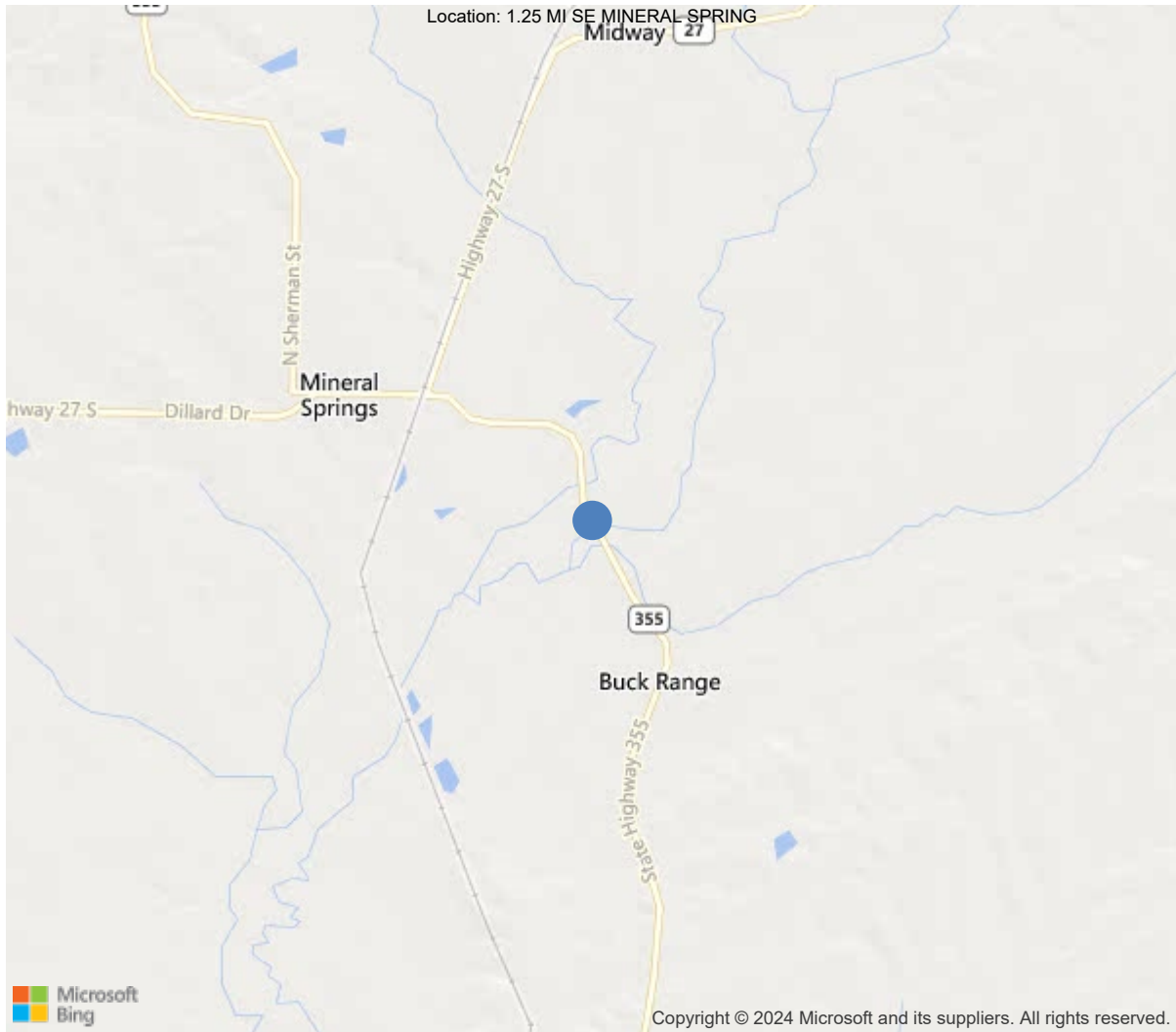
Latitude:33.86595, Longitude:-93.89709

Route:355 Section:01 Log:1.25

Arnold Road ID:31x355x1xA, Arnold Log mile:1.25

District 03, 61 - Howard County

Owner: 1 - State Highway Agency



33.86595, -93.89709



Asset #06049(Routine, Underwater type 2)

SH 355 - 01 - 1.25 over MINE CREEK

Location: 1.25 MI SE MINERAL SPRING

Team Lead: Jared Kegley, Inspection Date: 08/11/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06049
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	61 - Howard County
(4) Place Code	0
(6) Features Intersected	MINE CREEK
(7) Facility Carried	SH 355 - 01 - 1.25
(9) Location	1.25 MI SE MINERAL SPRING
(11) Mile Point	1.25 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.865952
(17) Longitude	-93.897087
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	5
(46) No. of Approach Spans	0
(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	0 - None
AGE AND SERVICE	
(27) Year Built	1985
(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	3100
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	11 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	252 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	32.2 ft
(52) Deck Width Out to Out	35 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	33.1 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 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	7 - Rural Major Collector
(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	7
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(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 t
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	0
(114) Future ADT	3377
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/11/2022		
(91) Frequency	24		
(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 #06049(Routine, Underwater type 2)

District: 03, County: 61 - Howard County

Team Lead: Jared Kegley, Inspection Date: 08/11/2022

General Observation

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

Lower deck to 7 good in 2016 due to cracks in deck...DECK CRACKS WERE SEALED IN 2016 PER. HOWARD 1 (D.S.)ALL JOINT SEALS ARE LEAKING IN VARIOUS LOCATIONS8/14/2018...AL, SS, Deck, Def. photos taken. Settlement at beginning of bridge from shoulder to shoulder. Various changes to soundings. First time soundings have been checked since recent flooding...8/11/2022...Some cracking and delams found on top of deck this inspection, quantities were updated. Some deck cracks have been sealed in the past...

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

8/11/2022... Weathering Steel Beams beginning to show minor granular texture in various locations. Dropped Superstructure to a "7"

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

8/11/2022... Drilled shaft with R.C. Caps. Bent 5 has various spalls with rebar exposed on underside of cap. End of bridge LT side abutment spall. Dropped Substructure to a "7" due to rebar exposed on caps

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

8/11/2022... Soundings taken this inspection and linked to report files...



Asset #06049(Routine, Underwater type 2)

SH 355 - 01 - 1.25 over MINE CREEK

Location: 1.25 MI SE MINERAL SPRING

Team Lead: Jared Kegley, Inspection Date: 08/11/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8750	8397	353	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	200	0	200	0	0
1130	Cracking (RC and Other)	SF	5650	5500	150	0	0
(12) Deck cracks sealed in 2016							
(1080-12) Span 4 RT side Delam. Southbound Lane near Bt 5. Span 4 RT side Delam. Southbound lane mid span							
(1120-12) Efflorescence on overhangs various locations							
(1130-12) CS2 cracking throughout entire deck							
107	Steel Open Girder/Beam	LF	1000	1000	0	0	0
515	Steel Protective Coating	SF	7650	7550	100	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	100	0	100	0	0
(107) WEATHERING STEEL BEAMS							
205	Reinforced Concrete Column	EA	8	8	0	0	0
515	Steel Protective Coating	SF	2010	1760	250	0	0
3440	Effectiveness (Steel Protective Coatings)	EA	250	0	250	0	0
(515-205) Steel Protective Coating on R.C. Columns							
(3440-515-205) 8/11/2022...Corrosion near waterline on steel casing on columns in river...							
215	Reinforced Concrete Abutment	LF	88	86	2	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
234	Reinforced Concrete Pier Cap	LF	120	117	0	3	0
1090	Exposed Rebar	LF	3	0	0	3	0
(1090-234) Exposed rebar At bent 5 Cap							
300	Strip Seal Expansion Joint	LF	210	35	0	175	0
2310	Leakage	LF	175	0	0	175	0
(300) ALL JOINT SEALS ARE LEAKING IN VARIOUS LOCATIONS							
(2310-300) All joint seal is leaking. ALL Bents							
311	Movable Bearing	EA	20	20	0	0	0
313	Fixed Bearing	EA	20	20	0	0	0
331	Reinforced Concrete Bridge Railing	LF	504	503	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(1080-331) End of bridge LT side spall							



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Team Lead: Jared Kegley, Inspection Date: 08/11/2022

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8750	8397	353	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	200	0	200	0	0
1130	Cracking (RC and Other)	SF	5650	5500	150	0	0
(12) Deck cracks sealed in 2016							
(1080-12) Span 4 RT side Delam. Southbound Lane near Bt 5. Span 4 RT side Delam. Southbound lane mid span							
(1120-12) Efflorescence on overhangs various locations							
(1130-12) CS2 cracking throughout entire deck							

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Comment: Lower deck to 7 good in 2016 due to cracks in deck...DECK CRACKS WERE SEALED IN 2016 PER. HOWARD 1 (D.S.)....ALL JOINT SEALS ARE LEAKING IN VARIOUS LOCATIONS8/14/2018...AL, SS, Deck, Def. photos taken. Settlement at beginning of bridge from shoulder to shoulder. Various changes to soundings. First time soundings have been checked since recent flooding...8/11/2022...Some cracking and delams found on top of deck this inspection, quantities were updated. Some deck cracks have been sealed in the past...



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Team Lead: Jared Kegley, Inspection Date: 08/11/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1000	1000	0	0	0
515	Steel Protective Coating	SF	7650	7550	100	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	100	0	100	0	0
(107) WEATHERING STEEL BEAMS							

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Comment: 8/11/2022... Weathering Steel Beams beginning to show minor granular texture in various locations. Dropped Superstructure to a "7"



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Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	8	8	0	0	0
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3440	Effectiveness (Steel Protective Coatings)	EA	250	0	250	0	0
(515-205) Steel Protective Coating on R.C. Columns							
(3440-515-205) 8/11/2022...Corrosion near waterline on steel casing on columns in river...							
215	Reinforced Concrete Abutment	LF	88	86	2	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
234	Reinforced Concrete Pier Cap	LF	120	117	0	3	0
1090	Exposed Rebar	LF	3	0	0	3	0
(1090-234) Exposed rebar At bent 5 Cap							

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

Comment: 8/11/2022... Drilled shaft with R.C. Caps. Bent 5 has various spalls with rebar exposed on underside of cap. End of bridge LT side abutment spall. Dropped Substructure to a "7" due to rebar exposed on caps

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Comment: 8/11/2022... Soundings taken this inspection and linked to report files...



8/2022... Alignment



8/2022... Alignment



Deck photo



Joint material missing at bent bent #3 and #4 #5



Under photo



Underside of deck typical all spans



Deck



8/2022... deck photo typical of all spans



8/2022... Underside of deck typical of all spans



8/2022... Typical bent photo





CS2 cracking in various locations of deck



CS2 cracking in various locations of deck



CS2 cracking in various locations of deck



Some cracks in deck have been sealed in the past



Efflorescence on overhangs various locations



Span 4 RT side Delam. Southbound Lane near Bt 5



Span 4 RT side Delam. Southbound Lane near Bt 5



Span 4 RT side Delam. Southbound lane mid span



Span 4 RT side Delam. Southbound lane mid span



Bent 6 Abutment LT Side Spall





End of bridge LT side spill

Maintenance Needs

Date Reported: 08/24/2012

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Open

Component:

Deficiency Description

JOINT MATERIAL AT ALL BENTS NEED REPLACED

Remarks



JOINT MATERIAL AT ALL BENTS NEED REPLACED



JOINT MATERIAL AT ALL BENTS NEED REPLACED

Maintenance Needs

Date Reported: 08/11/2022

Priority: D- Routine

Type of Work: Replace (General)

Status: Open

Component: Bridge

Deficiency Description

Missing Log Mile Sign End of Bridge LT Side.

Remarks



Missing Log Mile Sign End of Bridge LT Side.

Maintenance Needs

Date Reported: 08/12/2022

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Open

Component: Bridge

Deficiency Description

Trees and vegetation under and along sides of bridge.

Remarks



Trees and vegetation at end of bridge need removed



Trees and vegetation at end of bridge need removed



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Location: 1.25 MI SE MINERAL SPRING

Team Lead: Jared Kegley, **Inspection Date:** 08/11/2022

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
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	
A-64 - Vegetation Removal Requested	



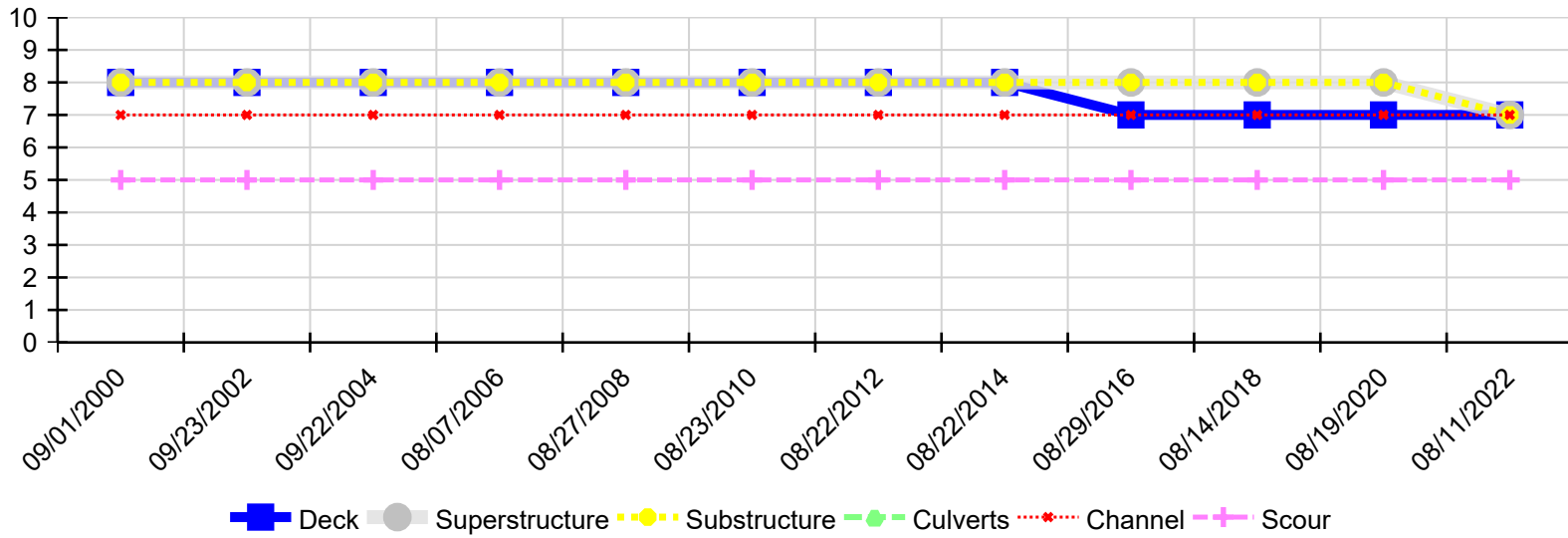
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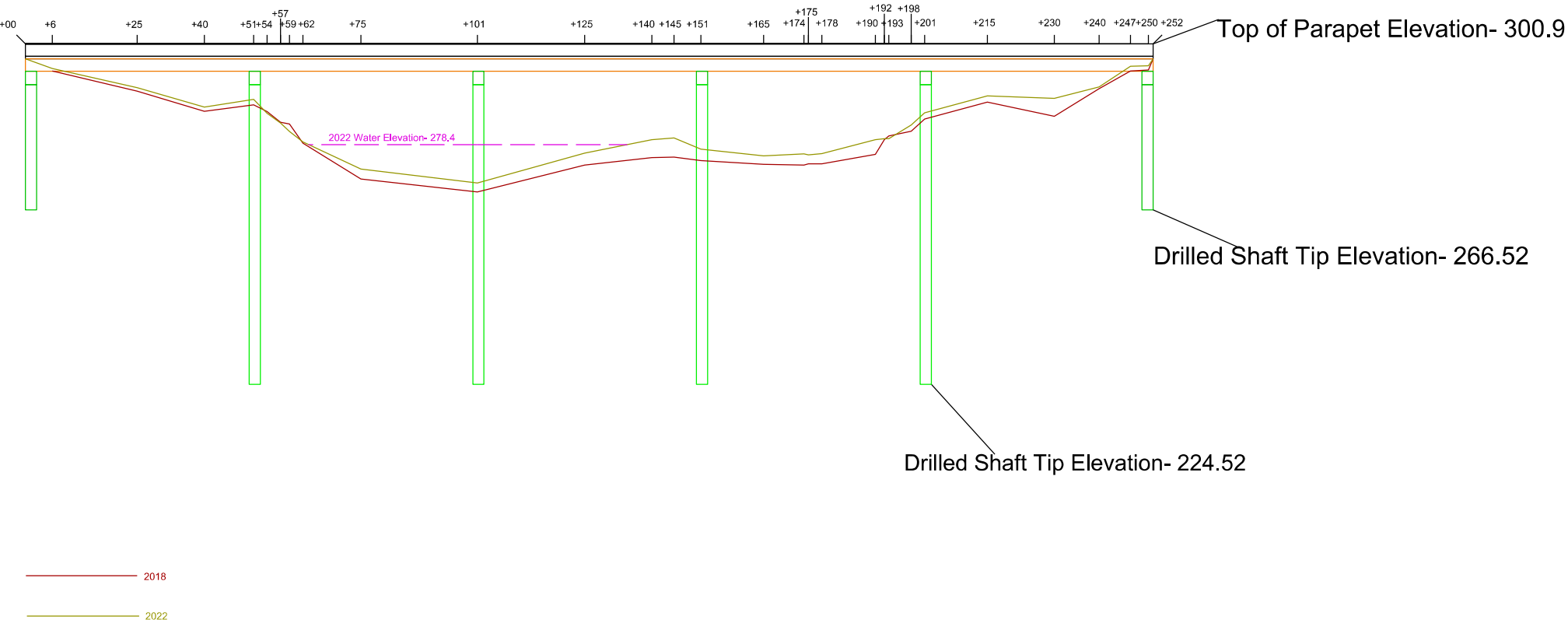
Team Lead: Jared Kegley, Inspection Date: 08/11/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/11/2022	7	7	7	N	7	5
08/19/2020	7	8	8	N	7	5
08/14/2018	7	8	8	N	7	5
08/29/2016	7	8	8	N	7	5
08/22/2014	8	8	8	N	7	5
08/22/2012	8	8	8	N	7	5
08/23/2010	8	8	8	N	7	5
08/27/2008	8	8	8	N	7	5
08/07/2006	8	8	8	N	7	5
09/22/2004	8	8	8	N	7	5
09/23/2002	8	8	8	N	7	5
09/01/2000	8	8	8	N	7	5

Rt. Side Elevations



Lt. Side Elevations

