



Latitude:33.57564, Longitude:-93.20967

Route:278 Section:07 Log:17.44

Arnold Road ID:50x278x7xA, Arnold Log mile:16.548

District 03, 99 - Nevada County

Owner: 1 - State Highway Agency

Bridge Posting Information

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

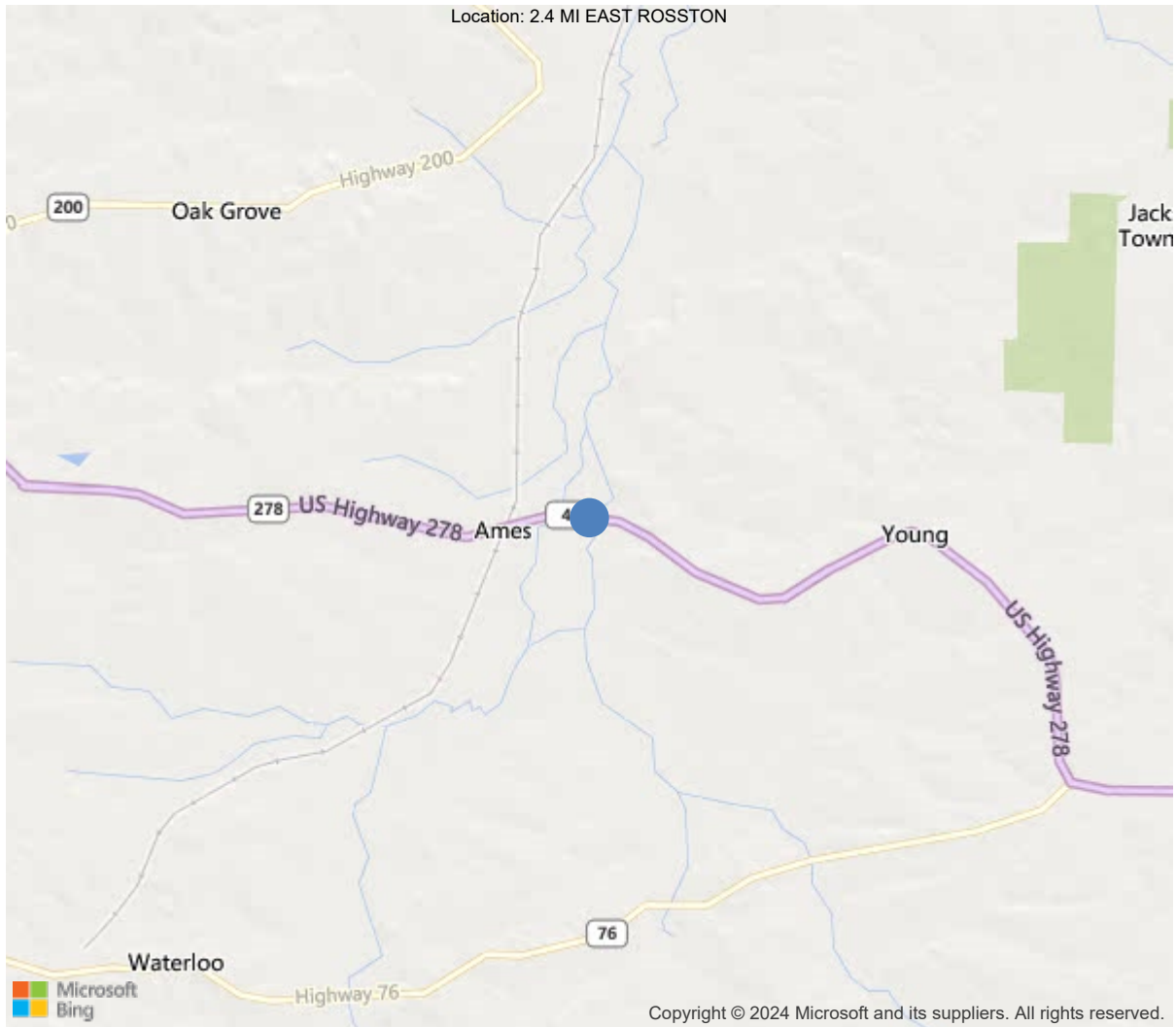
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	50		
Code 5 (40 Tons)	60		

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



33.57564, -93.20967



Asset #06672(Routine, Underwater type 2)
U.S. 278 -07-17.44 over LITTLE CANEY CREEK

Location: 2.4 MI EAST ROSSTON

Team Lead: Jared Kegley, Inspection Date: 06/13/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06672
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	99 - Nevada County
(4) Place Code	0
(6) Features Intersected	LITTLE CANEY CREEK
(7) Facility Carried	U.S. 278 -07-17.44
(9) Location	2.4 MI EAST ROSSTON
(11) Mile Point	17.44 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.57564
(17) Longitude	-93.20967
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1 - Concrete
Type	4 - Tee beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	8
(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	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1998
(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	1000
(30) Year of ADT	2018
(109) Truck ADT	30 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	236 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	35.4 ft
(52) Deck Width Out to Out	38.4 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	35.8 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	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	8
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A - HL93
(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	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	1100
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	06/13/2022		
(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 #06672(Routine, Underwater type 2)

District: 03, County: 99 - Nevada County

Team Lead: Jared Kegley, Inspection Date: 06/13/2022

General Observation

6/4/2018...AL, SS, DECK, DEF. PHOTOS TAKEN. TREES AND BRUSH GROWING UNDER AND ALONG SIDES OF BRIDGE...BUILT ON JOB R30087L layout drawing # 37655...06/02/2020. Alignment, elevation photos taken.....6/13/2022... Alignment and Elevation photos taken, soundings taken per this inspection...

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

...diagonal deck cracks originate from bents and run back or ahead 6' to 8' in length note:cracks were sealed in past
- Efflorescence/Rust Staining on bottom side of deck... 6/2022... Efflorescence on underside of deck various locations..
minor cracking various locations

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

6/2022... Efflorescence on underside of deck various locations, minor cracking various locations...

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

Reinforced concrete Pier cap, Reinforced concrete pile...6/13/2022...Minor spalls in various locations of concrete pile...

61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

6/13/2022... Soundings taken this inspection



Asset #06672(Routine, Underwater type 2)

U.S. 278 -07-17.44 over LITTLE CANEY CREEK

Location: 2.4 MI EAST ROSSTON

Team Lead: Jared Kegley, **Inspection Date:** 06/13/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	9062	8312	500	250	0
1120	Efflorescence/Rust Staining	SF	250	0	0	250	0
1130	Cracking (RC and Other)	SF	500	0	500	0	0
(1120-16) 6/13/2022...Efflorescence on underside of deck various locations...							
110	Reinforced Concrete Open Girder/Beam	LF	1180	1180	0	0	0
215	Reinforced Concrete Abutment	LF	109	109	0	0	0
227	Reinforced Concrete Pile	EA	35	33	2	0	0
1080	Delamination/Spall/Patched Area	EA	2	0	2	0	0
234	Reinforced Concrete Pier Cap	LF	271	271	0	0	0
301	Pourable Joint Seal	LF	238	38	0	200	0
2320	Seal Adhesion	LF	200	0	0	200	0
(301) 7 FT OF JOINT MATERIAL MISSING THROUGHOUT ALL JOINTS							
331	Reinforced Concrete Bridge Railing	LF	472	471	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0



Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	9062	8312	500	250	0
1120	Efflorescence/Rust Staining	SF	250	0	0	250	0
1130	Cracking (RC and Other)	SF	500	0	500	0	0
(1120-16) 6/13/2022...Efflorescence on underside of deck various locations...							

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

Comment: ...diagonal deck cracks originate from bents and run back or ahead 6' to 8' in length note:cracks were sealed in past- Efflorescence/Rust Staining on bottom side of deck... 6/2022... Efflorescence on underside of deck various locations.. minor cracking various locations



Asset #06672(Routine, Underwater type 2)
U.S. 278 -07-17.44 over LITTLE CANEY CREK

Location: 2.4 MI EAST ROSSTON

Team Lead: Jared Kegley, Inspection Date: 06/13/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	1180	1180	0	0	0

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

Comment: 6/2022... Efflorescence on underside of deck various locations, minor cracking various locations...



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	109	109	0	0	0
227	Reinforced Concrete Pile	EA	35	33	2	0	0
1080	Delamination/Spall/Patched Area	EA	2	0	2	0	0
234	Reinforced Concrete Pier Cap	LF	271	271	0	0	0

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

Comment: Reinforced concrete Pier cap, Reinforced concrete pile...6/13/2022...Minor spalls in various locations of concrete pile...

61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

Comment: 6/13/2022... Soundings taken this inspection



6/2022... Elevation



6/2022... Alignment



Typical bottom of deck photo



Some cracks sealed and other not sealed



Photo taken of joint @ Bent 2



6/2022. Underside of deck typical of all spans



6/2022... deck photo typical of all spans





Efflorescence on underside of deck various locations

Maintenance Needs

Date Reported: 07/16/2012

Priority: D- Routine

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

Status: Assigned

Component:

Deficiency Description

ALL JOINTS HAVE SOME AREAS OF MISSING MATERIAL

Remarks



Joint 8



ALL JOINTS HAVE SOME AREA 'S OF MISSING MATERIAL,

Maintenance Needs

Date Reported: 06/04/2018

Priority: D- Routine

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

Status: Assigned

Component: Miscellaneous

Deficiency Description

TREES AND BRUSH GROWING UNDER AND ALONG SIDES OF BRIDGE

Remarks



TREES AND BRUSH GROWING UNDER AND ALONG
SIDES OF BRIDGE



New photo taken 06/022020

Maintenance Needs

Date Reported: 07/16/2012

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Assigned

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

Component:

Deficiency Description

ALL SPANS HAVE MINOR DECK CRACKS THAT HAVE NOT BEEN SEALED ,MOST CRACKS WERE SEALED IN PAST.
(DATE UNKNOWN EST. 2004)

crack size 0.030 inch

Remarks



Deck cracks



Deck cracks



Deck cracks 0.030 size



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	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



Asset #06672(Routine, Underwater type 2)

U.S. 278 -07-17.44 over LITTLE CANEY CREK

Location: 2.4 MI EAST ROSSTON

Team Lead: Jared Kegley, **Inspection Date:** 06/13/2022

A-57 - Beam End and Bearing Painting 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



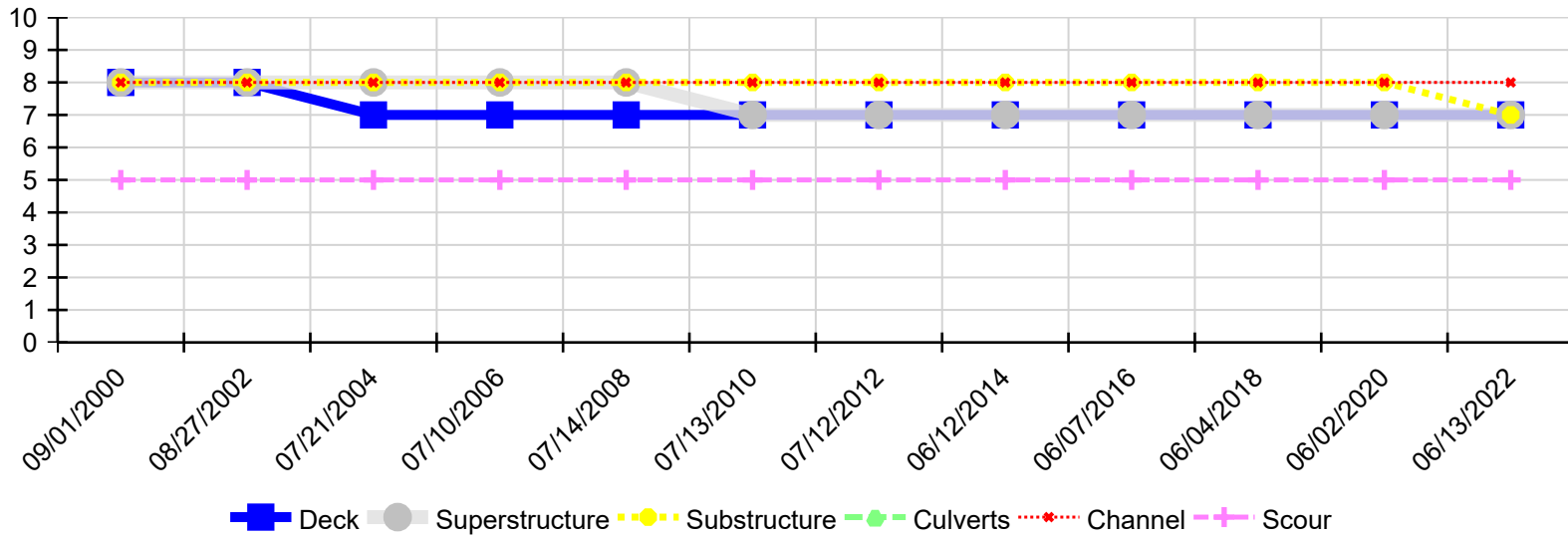
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Location: 2.4 MI EAST ROSSTON

Team Lead: Jared Kegley, Inspection Date: 06/13/2022

Condition History



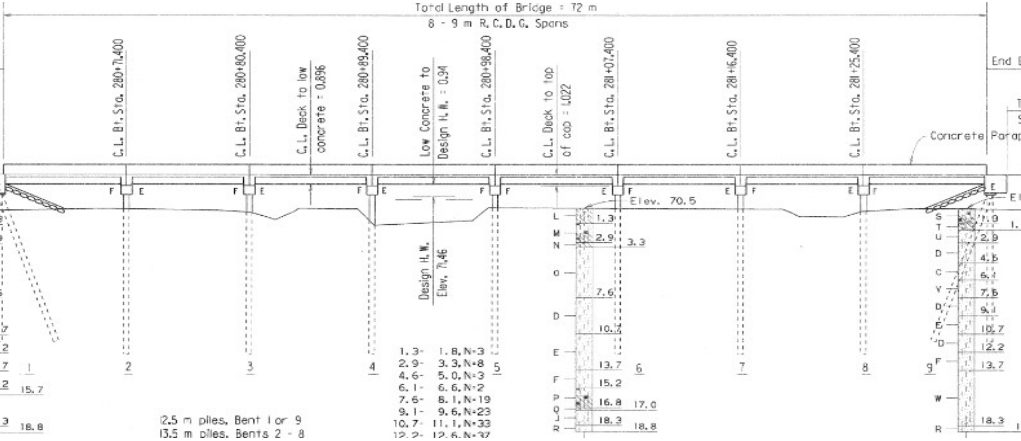
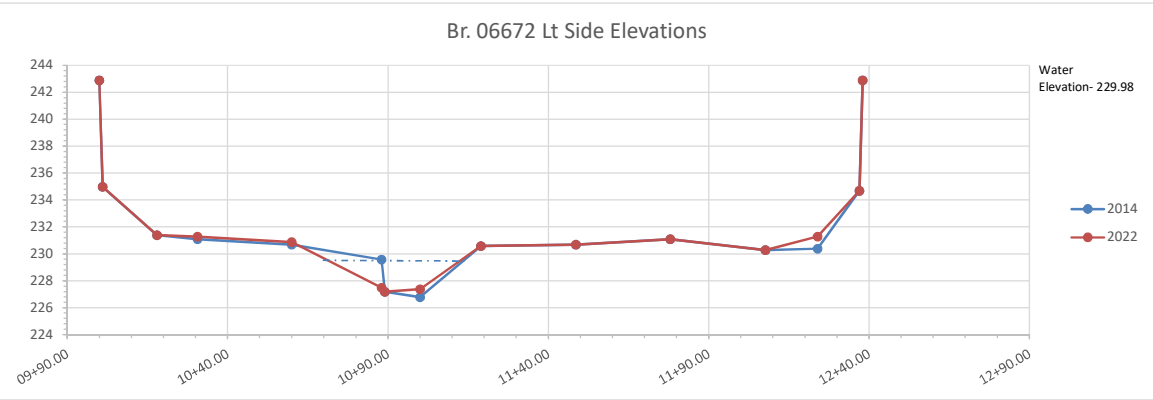
Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/13/2022	7	7	7	N	8	5
06/02/2020	7	7	8	N	8	5
06/04/2018	7	7	8	N	8	5
06/07/2016	7	7	8	N	8	5
06/12/2014	7	7	8	N	8	5
07/12/2012	7	7	8	N	8	5
07/13/2010	7	7	8	N	8	5
07/14/2008	7	8	8	N	8	5
07/10/2006	7	8	8	N	8	5
07/21/2004	7	8	8	N	8	5
08/27/2002	8	8	8	N	8	5
09/01/2000	8	8	8	N	8	5

10+00.00	242.88	242.88
10+01.00	234.98	234.98
10+18.00	231.38	231.38
10+30.60	231.08	231.28
10+60.00	230.68	230.88
10+88.00	229.58	227.48
10+89.00	227.18	227.18
11+00.00	226.78	227.38
11+19.00	230.58	230.58
11+48.60	230.68	230.68
11+78.00	231.08	231.08
12+07.70	230.28	230.28
12+24.00	230.38	231.28
12+37.00	234.68	234.68
12+38.00	242.88	242.88

YEAR

2014

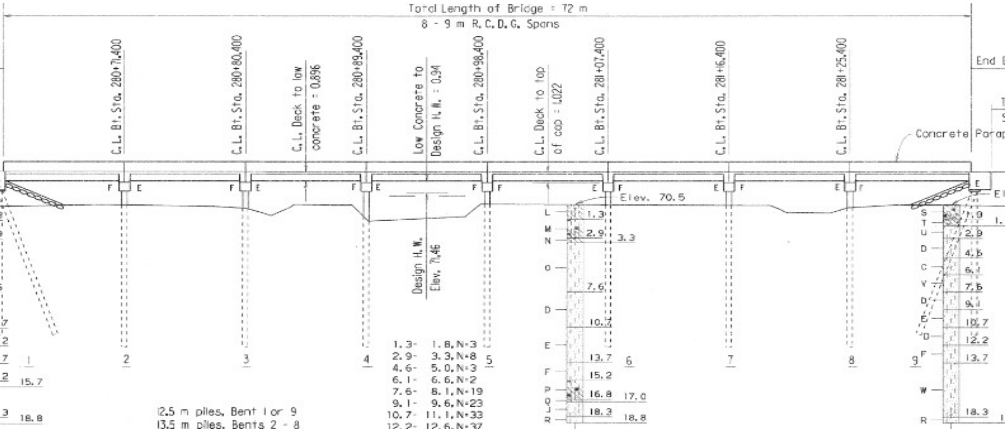
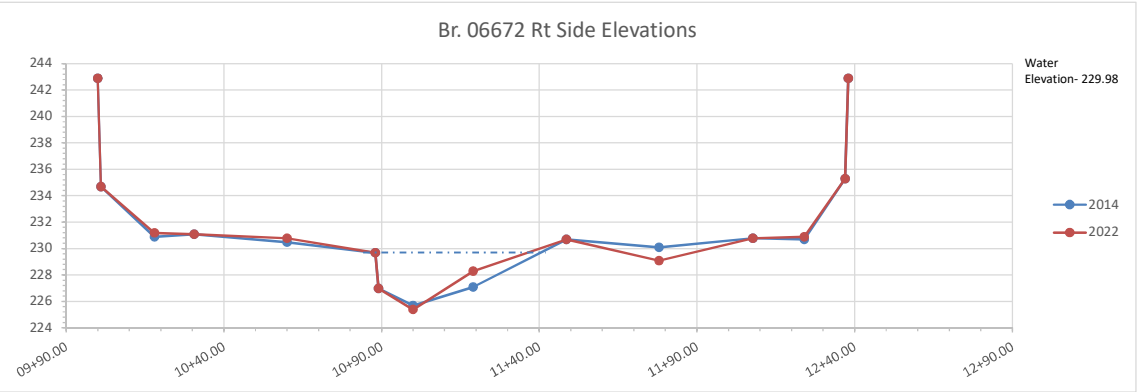
2022



CONCRETE PILING: Piling for Bents 1 and 9 shall be 405 mm octagonal or 355 mm square precast concrete and shall be driven to a minimum safe bearing capacity of 390 kN per pile. Piling shapes shall not be mixed. Piling in Bents 2 thru 8 shall be 455 mm square precast concrete and shall be driven to a minimum safe bearing capacity of 490 kN per pile. All piling shall be driven with an approved air, steam, or diesel hammer. Piling in end bents shall be driven after embankment to bottom of cap is in place and shall have a minimum penetration of 6.0 m below natural ground. Piling in Bents 2 thru 8 shall be driven to a minimum tip elevation of 59.5. Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field. Drive one 14.0 m test pile in Bent 1, one 15.0 m test pile in bent 4, and one 15.0 m test pile in Bent 7.

10+00.00	242.88	242.88
10+01.00	234.68	234.68
10+18.00	230.88	231.18
10+30.60	231.08	231.08
10+60.00	230.48	230.78
10+88.00	229.68	229.68
10+89.00	226.98	226.98
11+00.00	225.68	225.38
11+19.00	227.08	228.28
11+48.60	230.68	230.68
11+78.00	230.08	229.08
12+07.70	230.78	230.78
12+24.00	230.68	230.88
12+37.00	235.28	235.28
12+38.00	242.88	242.88

YEAR 2014 2022



CONCRETE PILING: Piling for Bents 1 and 9 shall be 405 mm octagonal or 355 mm square precast concrete and shall be driven to a minimum safe bearing capacity of 390 kN per pile. Piling shapes shall not be mixed. Piling in Bents 2 thru 8 shall be 455 mm square precast concrete and shall be driven to a minimum safe bearing capacity of 490 kN per pile. All piling shall be driven with an approved air, steam, or diesel hammer. Piling in end bents shall be driven after embankment to bottom of cap is in place and shall have a minimum penetration of 6.0 m below natural ground. Piling in Bents 2 thru 8 shall be driven to a minimum tip elevation of 59.5. Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field. Drive one 14.0 m test pile in Bent 1, one 15.0 m test pile in bent 4, and one 15.0 m test pile in Bent 7.