

Location: 5 EAST OF ND 25

Inspection Date: 04/26/2023



Latitude:46.84523, Longitude:-100.90742

Route:00094 Log:152.296

District 61, 30 - Morton

Owner: 1 - State Highway Agency

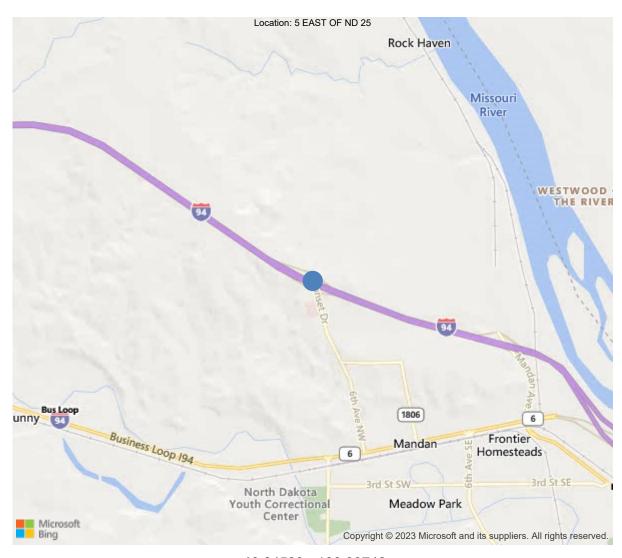
Place Code: 49900

Team Leader: Jake Mertz

Approved By: Travis McCloud



District: 61, County: 30 - Morton



46.84523, -100.90742



Location: 5 EAST OF ND 25

IDENTIF	TICATION
(1) State Names	38 - North Dakota
(8) Structure Number	0094-152.329 L
(5) Inventory Route	1
(2) Highway Agency District	1 - Bismarck
(3) County Code	30 - Mortor
(4) Place Code	49900
(6) Features Intersected	SUNSET DR/NW MANDAN INT
(7) Facility Carried	INTERSTATE 94
(9) Location	5 EAST OF ND 25
(11) Mile Point	152.296 m
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	000000000
(16) Latitude	46.84522831223
(17) Longitude	-100.907423049609
(98) Border Bridge State Code	<u>-</u>
(99) Border Bridge Structure No.	E AND MATERIAL
(43) Main Structure Type	E AND MATERIAL 42
Material	4 - Steel continuous
Туре	2 - Stringer/Multi-beam or girde
(44) Approach Structure Type	00
Material	0 - Othe
Туре	0 - Othe
(45) No. of Spans in Main Unit	;
(46) No. of Approach Spans	(
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective Sys	stem
Type of Wearing Surface	4 - Low slump Concrete
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND	SERVICE
(27) Year Built	1964
(106) Year Reconstructed	1985
(42) Type of Service	
On 6 - Ove	erpass structure at an interchange or
On 6 - Ove Under 1	erpass structure at an interchange or
On 6 - Ove Under 1 (28) Lane	erpass structure at an interchange or s - Highway, with or without pedestrian
On 6 - Ove Under 1 (28) Lane	erpass structure at an interchange or s - Highway, with or without pedestriar
On 6 - Ove Under 1 (28) Lane On Under	erpass structure at an interchange or s - Highway, with or without pedestriar 2
On 6 - Ove Under 1 (28) Lane On Under (29) Average Daily Traffic	erpass structure at an interchange or - Highway, with or without pedestrian 2 635
On 6 - Ove	erpass structure at an interchange or - Highway, with or without pedestrian 2 635 201
On 6 - Ove	erpass structure at an interchange or a Highway, with or without pedestrian 635 201:
On 6 - Ove	erpass structure at an interchange or a Highway, with or without pedestrian 6350 2011 10 % 66 m
On 6 - Ove	erpass structure at an interchange or a line of the Highway, with or without pedestrian 6350 2011 10 9 66 m
On 6 - Ove	erpass structure at an interchange or a line of the Highway, with or without pedestrian end of the Highway
On 6 - Ove	erpass structure at an interchange or a line of the Highway, with or without pedestrian end of the Highway
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On 6 - Ove	erpass structure at an interchange or a line of the highway, with or without pedestrian experience of the highway experi
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On 6 - Ove Under 1 (28) Lane On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMET (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to C (52) Deck Width Out to Out (32) Approach Roadway Width (W/Sh	erpass structure at an interchange of a Highway, with or without pedestrial Highway, with or without pedestrial 6356 2011 10 % 66 m RIC DATA 60 1666 CEPT 10 % 1666 CEPT 10
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On 6 - Ove Under 1 (28) Lane On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMET (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to C (52) Deck Width Out to Out (32) Approach Roadway Width (W/Sh (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clea (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: (56) Min Lat Underclear LT NAVIGAT (38) Navigation Control (111) Pier Protection	Curb Curb 37.11

CLASSIFI	CATION
(112) NBIS Bridge Length	Y
(104) Highway System	1
(26) Functional Class	11 - Urban Principal Arteria
(100) Defense Highway	1 - Interstate STRAHNET route
(101) Parallel Structure	L - The left structure of para
(102) Direction of Traffic	1 - 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 toll free road
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDI	ITION
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	 N
(62) Culverts	N
LOAD RATING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	0 - MO 107 110 20
(64) Operating Rating Method (64) Operating Rating	!
Type	1 - Load Factor(LF)
Rating	64.2
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	T - Load Tactor(ET)
Type	
Rating	
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRA	
	7
(67) Structural Evaluation (68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Meets currently acceptable stan
(36B) Transitions	Inspected feature meets current
(36C) Approach Guardrail	Inspected feature meets current Inspected feature meets current
(36D) Approach Guardrail Ends	Inspected feature meets current 1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
· · ·	-
PROPOSED IMI	
(75) Type of Work	38 - Other structural work, in
(76) Length of Structure Improvement	166 f
(94) Bridge Improvement Cost	\$ 86000
(95) Roadway Improvement Cost	\$ 9000
(96) Total Project Cost	\$ 129000
(97) Year of Improvement Cost Estima	
(114) Future ADT	6350
(115) Year of Future ADT	2039
INSPECT	TIONS *
(90) Inspection Date	04/26/2023
(91) Frequency	24
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	No
C: Other Special Inspection	INU
O. Other Opedia inspection	
* The inspection date and frequency the current NBI date and frequency report header for the date this inspe	information. Please refer to the



Location: 5 EAST OF ND 25 Inspection Date: 04/26/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	
12	Reinforced Concrete Deck	SF	7138	7138	0	0	0	
1130	Cracking (RC and Other)	SF	356	356	0	0	0	
(1130-12) 2	(1130-12) 26April2023 - There are cracks in the deck that have been sealed.							
107	Steel Open Girder/Beam	LF	830	785	2	43	0	
1000	Corrosion	LF	43	0	0	43	0	
7000	Damage	LF	2	0	2	0	0	
515	Steel Protective Coating	SF	6291	0	0	6248	43	
3410	Chalking (Steel Protective Coatings)	LF	6248	0	0	6248	0	
3440	Effectiveness (Steel Protective Coatings)	LF	43	0	0	0	43	
(1000 107)	All girdors are showing some minor signs of correction r	noctly due	to protoctive	coating fail	ina 4/1/	2010		

(1000-107) All girders are showing some minor signs of corrosion, mostly due to protective coating failing. - 4/1/2019

There is corrosion on the N1 and S1 bottom flanges. 15April2021

26April2023 - There is no change to this defect.

(7000-107) 26April2023 - Beam 1 in Span 2 has impact damage which has caused scratches and dings.

(515-107) Protective coating is failing or has failed in some areas - 4/1/2019

(3410-515-107) All the steel beams have chalked. 15April2021

26April2023 - There is no change to this defect.

(3440-515-107) Effectiveness of the protective coating has become limited. - 4/1/2019

The coating has failed on the bottom flanges of the N1 and S1 beams. 15April2021

26April2023 - There is no char	nge to this defect.
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205	Reinforced Concrete Column	EA	10	8	2	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0

(1080-205) Pier 2 N1 column has a 4 inch by 6 inch spall. 15April2021

26April2023 - There is no change to this defect.

(1130-205) 26April2023 - Column 2 at pier 3 has some cracks towards the bottom of the column.

215	Reinforced Concrete Abutment	LF	95	59	25	11	0
1080	Delamination/Spall/Patched Area	LF	8	0	0	8	0
1090	Exposed Rebar	LF	3	0	0	3	0
1130	Cracking (RC and Other)	LF	25	0	25	0	0

(215) Hairline vertical cracking on abutment walls. Large 4'x2' spall on east abutment south end. - 4/1/2019

(1080-215) 4'x2' spall on east abutment south end. 2 other large spalls on both sides of girder S, east abutment. - 4/1/2019

There are 2 patched spall areas on abutment 4. A 3 foot by 4 foot and a 4 foot by 2 foot. 15April2021 26April2023 - There is no change to this defect.



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	T	T	I	· · · · ·	ection D		
ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(1090-215) Abutment 4 has approximately 3 feet of exposed rebar that is located on the N1 pedestal and the Center pedestal. 15April2021 26April2023 - There is no change to this defect.							
(1130-215)	Hairline vertical cracks on east abutment - 4/1/2019						
cracks range pedestals.	has approximately 10 feet of cracks on and between the from approximately 0.006 to 0.020 in width. Abutmer These cracks range from approximately 0.012 to 0.031 in There is no change to this defect.	nt 4 has ap	proximately 1				
234	Reinforced Concrete Pier Cap	LF	95	94	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
	The pier 2 pier cap has a crack above the S2 column. 1 - There is no change to this defect.	.5April2021	-				
311	Movable Bearing	EA	15	0	5	10	0
1000	Corrosion	EA	15	0	5	10	0
515	Steel Protective Coating	SF	75	0	25	0	50
3440	Effectiveness (Steel Protective Coatings)	EA	75	0	25	0	50
15April2021 26April2023	All the bearings at both abutments have measurable set - There is no change to this defect. rotective coating is very limited - 4/1/2019	ction loss.	The pier 3be	arings have	e freckled ru	ust initiated.	
	,						
(3440-515-3	B11) Protective coating has become very limited 4/1/2	.019					
	on the bearings at both abutments has failed. The pier - There is no change to this defect.	3 bearing	s coating is s	ubstantially	effective.	15April2021	
313	Fixed Bearing	EA	5	0	5	0	0
1000	Corrosion	EA	5	0	5	0	0
515	Steel Protective Coating	SF	25	0	25	0	0
3440	Effectiveness (Steel Protective Coatings)	EA	25	0	25	0	0
	Freckled rust has initiated on the pier 2 bearings There is no change to this defect.						
(515-313) Pi	rotective coating has become limited 4/1/2019						
(3440-515-3	813) Protective has become limited - 4/1/2019						
	to this defect . 15April2021 - There is little to no change to this defect.						
321	Reinforced Concrete Approach Slab	SF	3040	3029	11	0	0
1130	Cracking (RC and Other)	SF	11	0	11	0	0
	Both approach slabs have cracks. 22April2021 - There is little to no change to this defect.						
330	Metal Bridge Railing	LF	331	331	0	0	0



Location: 5 EAST OF ND 25

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
331	Reinforced Concrete Bridge Railing	LF	331	327	0	4	0
1090	Exposed Rebar	LF	4	0	0	4	0
1130	Cracking (RC and Other)	LF	44	44	0	0	0
22April2021	The North curb at the West end of the deck has exposed - There is no change to this defect.	d rebar and	d is cracked a	pproximate	ly 4 feet in	length.	
•							
(1130-331)	Hairline to 1/8" cracks throughout the bridge - 4/1/2019	,					
exposed reb 26April2023	proximately 20 cracks in each barrier that measure 0.00 ar and is cracked approximately 4 feet in length. 22Ap - The cracks have been sealed.	ril2021					
15	Re Conc Backwall	LF	95	94	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
(1130-815)	26April2023 - The West abutment backwall has a crack.						
399	Slope Protection, RC	EA	2	0	2	0	0
4000	Settlement	EA	2	0	2	0	0
(8399) Both 4/1/2019	slope protections have some movement and cracking.	East slope	protection is	also bucklir	ng due to n	novement.	-
(4000-8399)	Both slope protections show signs of movement. East	side has so	ome buckling	due to mov	vement 4	/1/2019	
	o this defect. 15April2021 - There is little to no change to this defect.						
3401	Wings	EA	4	2	2	0	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
	The Southeast wing has a crack that measures approxi - In addition to the previous entry, the Northwest wing			15April202	1		



Asset #0094-152.329 L(Routine)

District: 61, County: 30 - Morton

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General Observation

04/19/2017 -New retrofit and guardrail and overlay and approach slabs

NBI Remarks Hairline vert. Cracks on east abut.

- The 2 north pedistals on the east abutment are cracked. All east bearings have pack rust.
- 1' X 2' spall on east breastwall with rebar exposed and no section loss.

04/19/2017: On East abut 2nd from north pedestal corner is busted off with exposed rebar. Erosion on SE slope protection 12'L x 18'd x 1'w some buckling of slope protection. The spall on the east abutment is now 4'x2'.

04/01/2019: Two spalls on east end of deck approximately 8'x1' and 2'x1' - 4/1/2019

Alert code 1 - Two spalls on new overlay, 1'x1' each. - 4/1/2019

26April2023 - weather: 56 degrees F, cloudy/light rain, WSW 9. The piers are designated (from this date forward) from West to East and the beams are designated from North to South.

Significant Findings

Critical Finding



Asset #0094-152.329 L(Routine)

District: 61, County: 30 - Morton

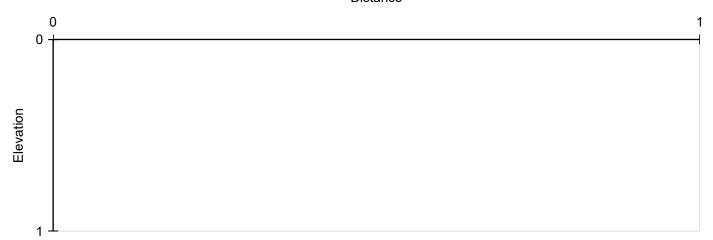
Inspection Date: 04/26/2023



Station	Distance	Upstream	Downstream

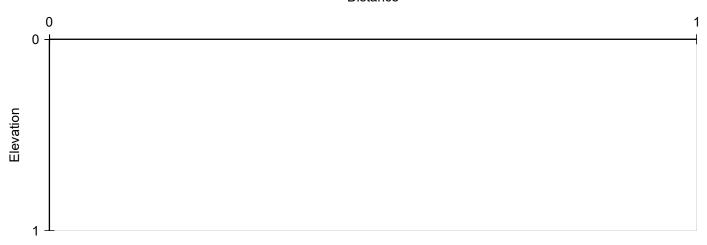
Upstream Elevation

Distance



Downstream Elevation

Distance

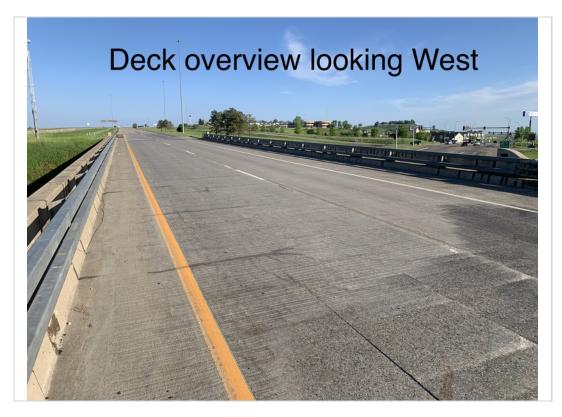




District: 61, **County:** 30 - Morton



Deck view looking west



Deck view looking west







Beam5 west abutment 1 3/4"



Beam 4 west abutment 1 5/8"





Beam 3 west abutment 1 3/4"



Beam 2 west abutment 1 5/16"



District: 61, County: 30 - Morton



Beam 1 west abutment 1 3/4"

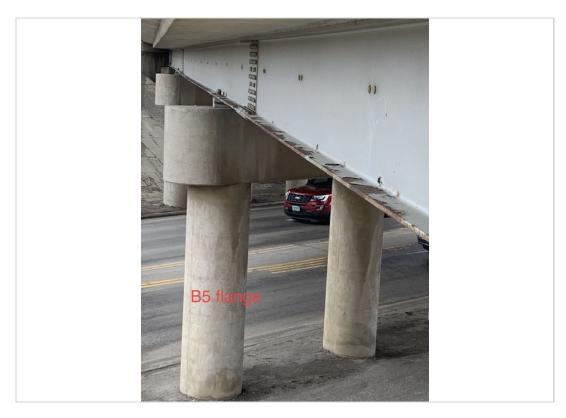


North side looking south



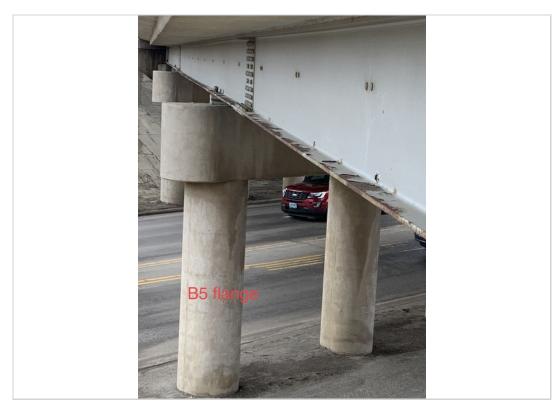


Pier 3

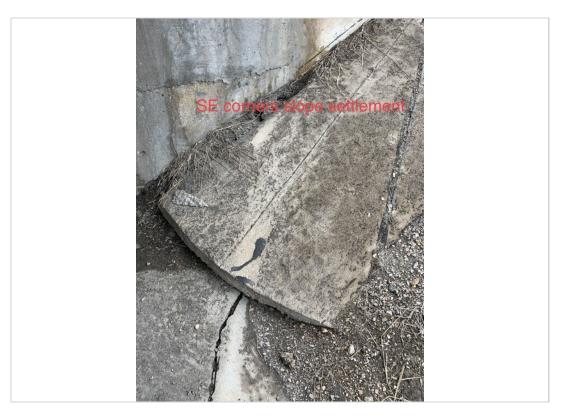


Beam 5 flange corrosion





Beam 5 flange corrosion



SE corner slope protection settlement





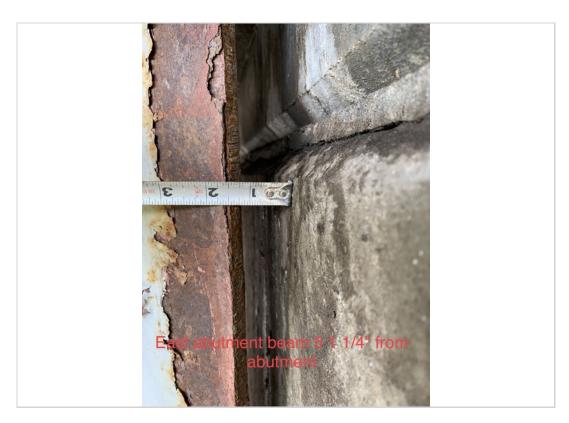
SE wing cracks



SE corner east abutment cracks efflorescence



District: 61, County: 30 - Morton

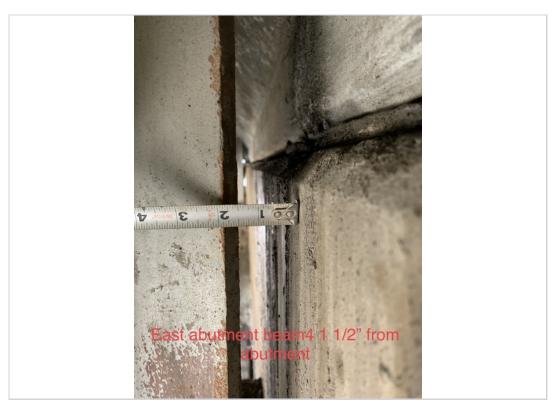


East abutment beam 5 , 1 1/4" for abutment

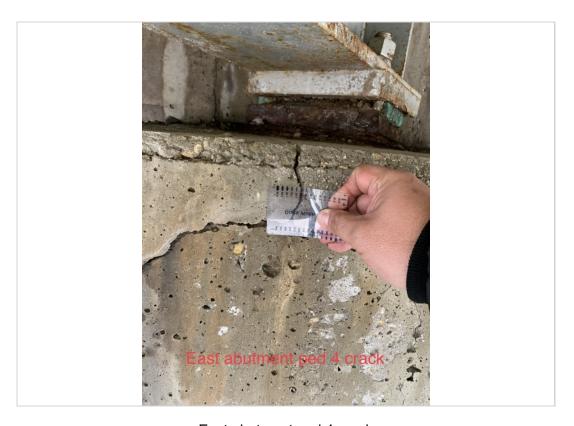


East abutment ped 5 beam 5



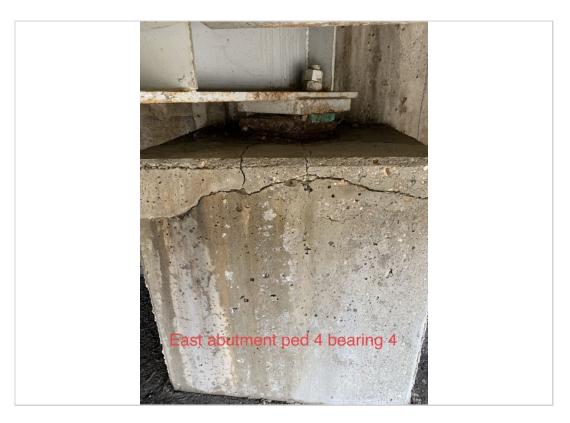


East abutment beam 4 , 1 1/2" from abutment



East abutment ped 4 crack





East abutment ped 4 bearing 4



East abutment ped 4 bearing 4





East abutment beam 4 , 1 1/4" from abutment

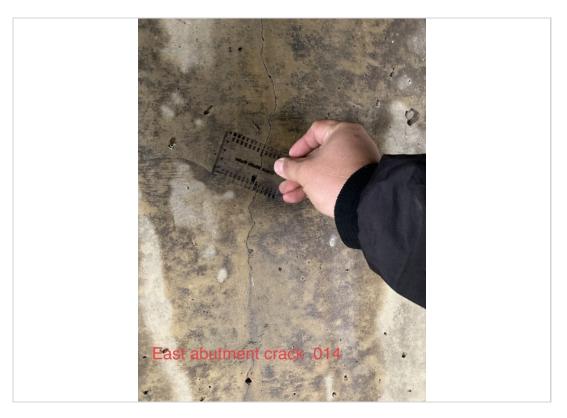


East abutment ped 3 bearing 3





East abutment ped 3 bearing 3

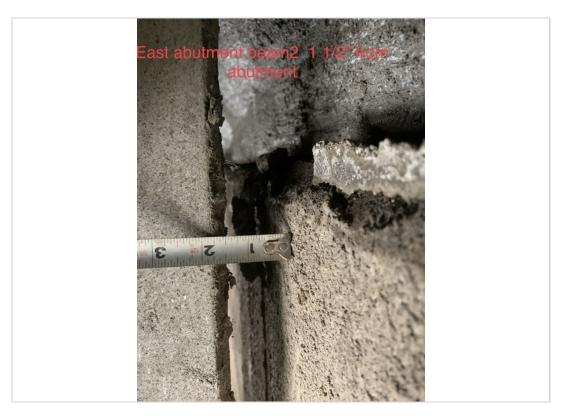


East abutment crack .014





East abutment ped 2 bearing 2



East abutment beam 2 , 1 1/2" from abutment





East abutment ped 2 exposed rebar and bearing 2



East abutment ped 2 exposed rebar and bearing 2





East abutment cracks



East abutment beam 1, 11/2" from abutment



District: 61, County: 30 - Morton



East abutment ped 1 bearing 1

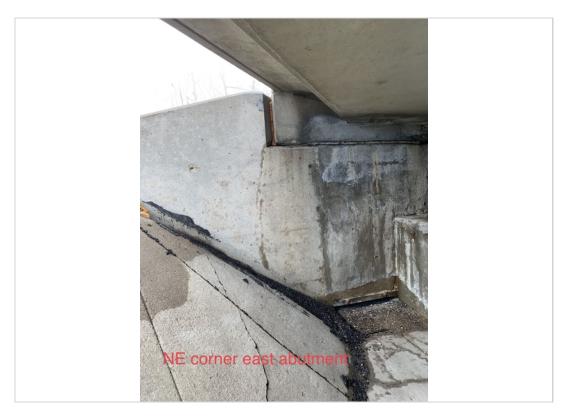


Beam 1 span 3 flange corrosion





Beam 1 span 3 flange corrosion



NE corner east abutment





NE corner slope protection settlement



East abutment looking SE





Pier 3 column 2 cracks



Pier 3 column 5 delam





Span2 looking NW



east abutment looking NE





east abutment looking NE



West half looking NW





East half looking north



Ped 1 west abutment cracks



District: 61, **County:** 30 - Morton



Looking east



Looking south





Looking west

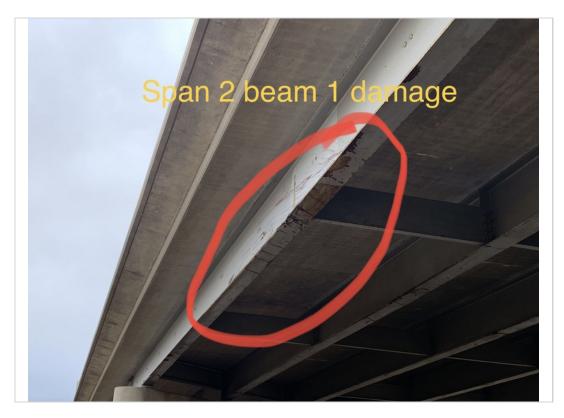


Looking north



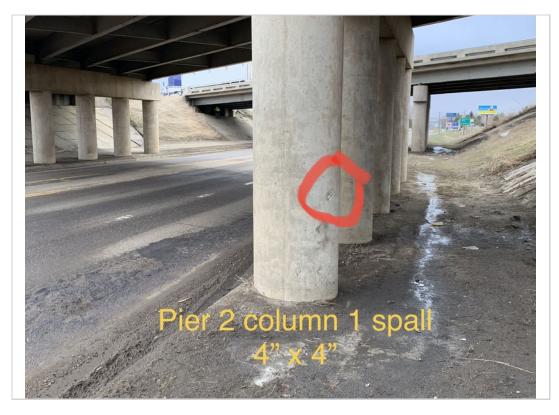


Pier 2 cap crack



Span 2 beam 1 damage





Pier 2 column 1 spall 4"x4"



NW wing crack





Ped 2 west abutment crack



Ped 3 crack west abutment





West abutment backwall crack



Ped 4 crack west abutment



Ped 5 west abutment crack



West slope protection settlement



Asset #0094-152.329 L(Routine)

District: 61, County: 30 - Morton



West abutment view





Location: 5 EAST OF ND 25 Inspection Date: 04/26/2023

Maintenance Needs

Date Reported: 04/15/2021

Priority:MediumStatus:UnknownType of Work:Seal Con. Slope Protectn JointsComponent:Element

Deficiency Description

The West needs to have some joints sealed. The East slope protection by the wings has pulled away.

Remarks

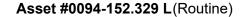
Recommend seal both slope protections and repairing the East slope protection. 15April2021, 26April2023



NE corner slope protection settlement



West slope protection settlement





Location: 5 EAST OF ND 25

Inspection Date: 04/26/2023

Maintenance Needs

Date Reported: 04/26/2023

Priority: Unknown Low Status:

Type of Work: Repair Erosion Component: Miscellaneous

Deficiency Description

East slope south side of slope protection erosion taking place along edge of concrete protection

Remarks

Recommend repair erosion



East abutment looking SE



East slope south end erosion