

Bridge #0001-053.175(Record Change)

ND HIGHWAY 1 over CREEK

Location: 2 NORTH OF ND 46

Inspection Date: December 19, 2022

Latitude:46.65608, Longitude:-98.08158

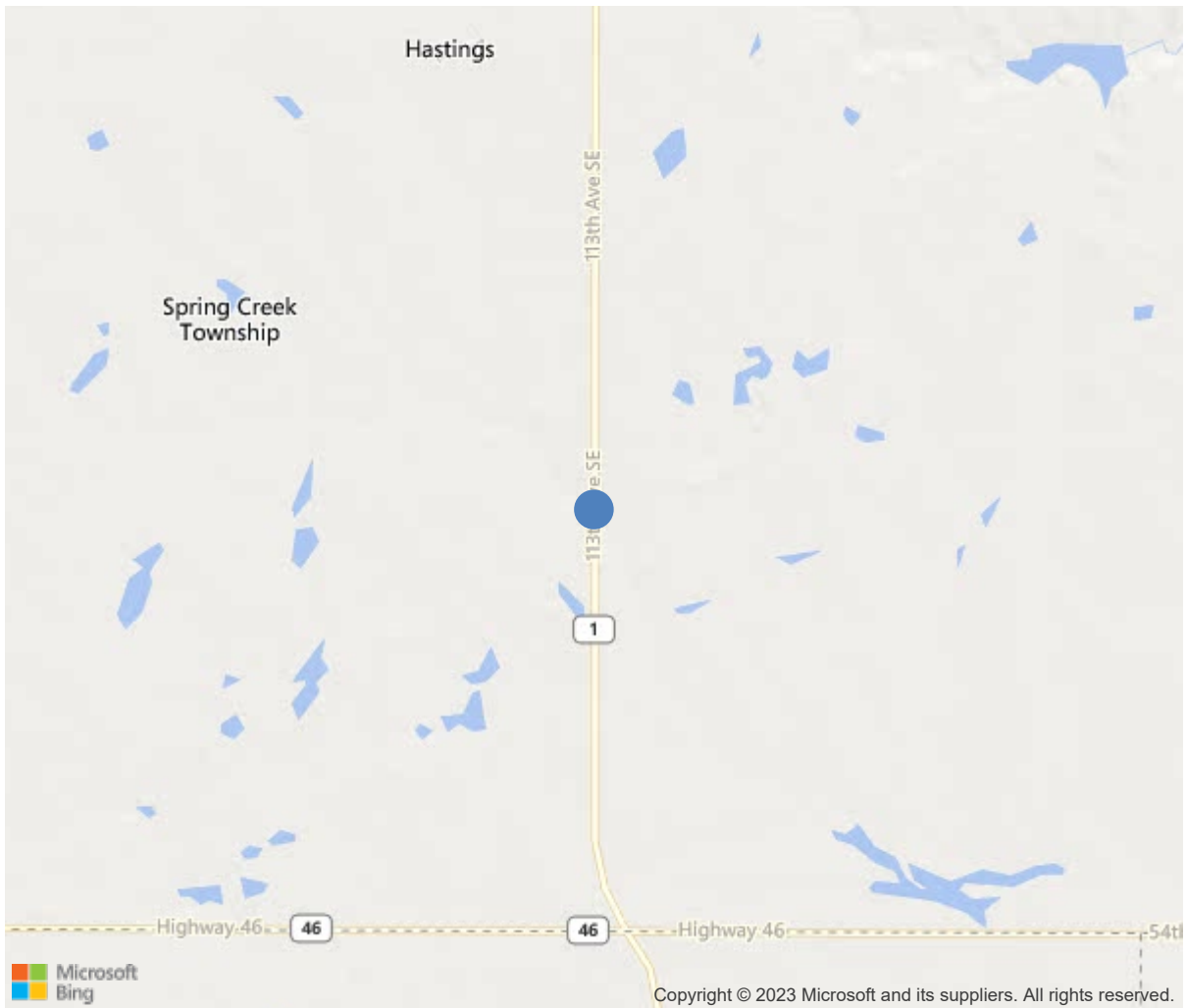
Route:00001 Log:53.164

District 62, Barnes County

Owner: 1-State Highway Agency

Place Code: SPRING CREEK TOWNSHIP

2 NORTH OF ND 46



46.65608, -98.08158

IDENTIFICATION	
(1) State Names	North Dakota
(8) Structure Number	0001-053.175
(5) Inventory Route	00001
(2) Highway Agency District	62
(3) County Code	Barnes, North Dakota
(4) Place Code	74900
(6) Features Intersected	CREEK
(7) Facility Carried	ND HIGHWAY 1
(9) Location	2 NORTH OF ND 46
(11) Mile Point	53.164 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte	0000000000
(16) Latitude	46.65608
(17) Longitude	-98.08158
GPS X	570270.2
GPS Y	5167356.5
(98) Border Bridge State Code	-1
(99) Border Bridge Struct. No.	-2
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	119
Material	1-Concrete
Type	19-Culvert
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	1
(46) No. of Approach Spans	0
Culvert	SINGLE, 7X7X42' RCB
(107) Deck Structure Type	N-Not applicable
(108) Wearing Surface/Protective System	
Type of Wearing Surface	N-Not applicable (applies only to structure)
Type of Membrane	N-Not applicable (applies only to structure)
Type of Deck Protection	N-Not applicable (applies only to structure)
Deck overburden	N
AGE AND SERVICE	
(27) Year Built	1949
(106) Year Reconstructed	
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	940
(30) Year of ADT	2019
(109) Truck ADT	16 %
(19) Bypass, Detour Length	27 mi
(114) Future ADT	940
(115) Year of Future ADT	2039
GEOMETRIC DATA	
(48) Length of Maximum Span	7 ft
(49) Structure Length	7 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	0 ft
(52) Deck Width Out to Out	0 ft
(32) Approach Roadway Width (W/Shoulders)	24.9 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24.6 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

CLASSIFICATION	
(A-7) Agency Admin Area	1
(112) NBIS Bridge Length	N
(104) Highway System	NHS
(26) Functional Class	2-Rural Principal Arterial - Oth
(100) Defense Highway	1-The inventory route is on a In
(A16) TE Route	
(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 part of
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	4-Historical significance is not dete
CONDITION	
(58) Deck	N
(59) Superstructure	N
(60) Substructure	N
(61) Channel & Channel Protection	7
(62) Culverts	6
LOAD RATING AND POSTING	
(31) Design Load	5-MS 18 / HS 20
(63) Operating Rating Method	0
(64) Operating Rating	60
(65) Inventory Rating Method	0-Field evaluation and documente
(66) Inventory 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	6
(68) Deck Geometry	N
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	7
(36) Traffic Safety Features	NN11
A) Bridge Railings	N-Not applicable or a safety feature
B) Transitions	N-Not applicable or a safety feature
C) Approach Guardrail	1-Inspected feature meets currently a
D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	8-Bridge foundations determined to be
APPROVED INSPECTIONS	
(90) Inspection Date	11/2019
(91) Frequency	48 Months
(92) Critical Feature Inspection	Req Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	No
C: Other Special Inspection	No
NAVIGATION DATA	
(38) Navigation Control	0-No navigation control on water
(111) Pier Protection	-
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clr	ft
(40) Navigation Horizontal Clearance	0 ft
AGENCY ITEMS	
(A-21) Fedaid Project no.	F-2-001(00)051
(A-14) Chaining Date	
(A-15) Delamination Pct	
(A-2) Rating Date	1/1/1900 12:00:00 AM
Bridge Health Index	98.78

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
241	Reinforced Concrete Culvert	LF	43	42	1	0	0
1120	Efflorescence/Rust Staining	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	5	5	0	0	0
8401	Wings	EA	2	0	1	1	0
1900	Distortion	EA	2	0	1	1	0
(8401-1900)							
CS3 SW wing leaning in 6" at top - 11/25/2019							

Inspection Comments

12/20/2005 - Grouted slope protection on east is being undermined.

Settlement in rdwy. East wings removed and replaced with grouted riprap. New guardrail and grouted rip-rap in 2003.

SW wingwall leaning in four inches at the top.

NW wingwall leaning in 2 inches at the top.

NE Grouted rip rap has failed

2/2016 - Construction joint fixed.

11/2019 - Delayed inspection on 10-30-2019 due to thin ice. Second inspector was Jesse Feldmeyer. - 11/25/2019

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