Forest Service
U.S. DEPARTMENT OF AGRICULTURE

STRUCTURE NUMBER- 021306000001024 **TEAM LEADER-** Jason Hefter

INSPECTION DATE- 10/27/2025 **STRUCTURE CONDITION-** F - Fair

CRITICAL FINDING INSPECTION REPORT

Structure Name	W FORK OF SAN JUAN RIVER	**State**	8 - Colorado
Route Number	648	**County**	79
Structure Mile Point	2.50	**Latitude**	37.44988333333333
Admin Org	021306	**Longitude**	-106.91113611111112

Inspection Team Lead

Jason Hefter, 10/27/2025

Inspection Reviewer

Jason Hefter, 10/27/2025

Forest Service
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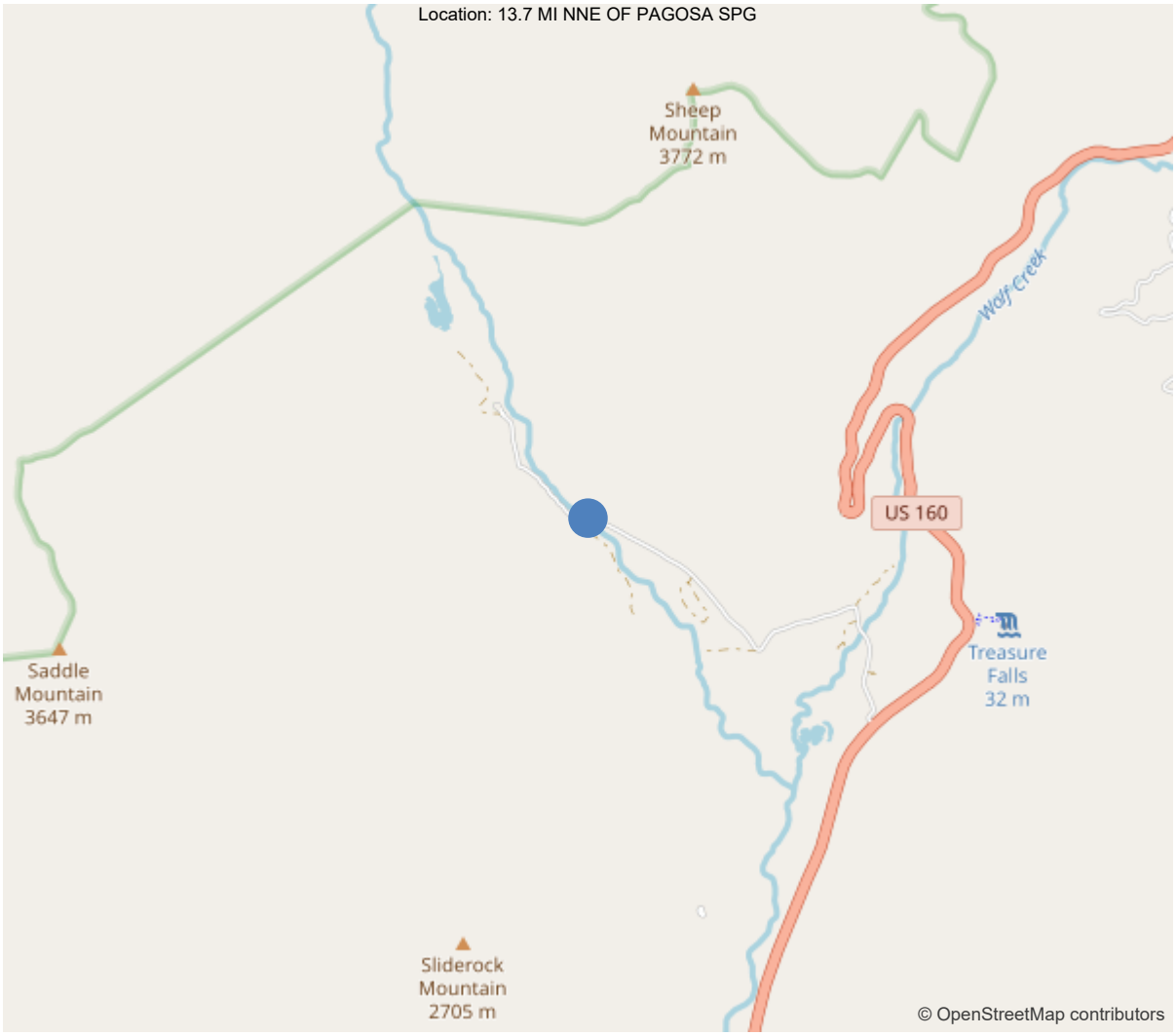
Structure Number: #021306000001024 / **Critical Finding**
Bridge Name: W FORK OF SAN JUAN RIVER
Route Number: 648, **Mile Point:** 2.50
Team Lead: Jason Hefter, **Inspection Date:** 10/27/2025

MAP PAGE



37.44988, -106.91114

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NBI SI&A

IDENTIFICATION	
(1) State Names	8 - Colorado
(8) Structure Number	021306000001024
(5) Inventory Route	1
(2) Highway Agency District	
(3) County Code	
(4) Place Code	0
(6) Features Intersected	W FORK OF SAN JUAN RIVER
(7) Facility Carried	FDR 648
(9) Location	13.7 MI NNE OF PAGOSA SPG
(11) Mile Point	2.485484 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	
(16) Latitude	37.44988333333333
(17) Longitude	-106.91113611111112
(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	1
(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	1954
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	1
Under	0
(29) Average Daily Traffic	32
(30) Year of ADT	2002
(109) Truck ADT	%
(19) Bypass, Detour Length	98.176618 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	49.540684 ft
(49) Structure Length	53.149608 ft
(50) Curb or Sidewalk Width	
Left	0.9842519999999999 ft
Right	0.9842519999999999 ft
(51) Bridge Roadway Width Curb to Curb	14.107612 ft
(52) Deck Width Out to Out	16.076116000000003 ft
(32) Approach Roadway Width (W/Shoulders)	15.091864 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	14.107612 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	
(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	9 - Rural Local
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	3 - One lane bridge for 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 structu
(21) Maintain	64 - U.S. Forest Service
(22) Owner	64 - U.S. Forest Service
(37) Historical Significance	4 - Historical significance is
CONDITION	
(58) Deck	6
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	8
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	8
(64) Operating Rating	
Type	8 - Load and Resistance Factor Rating (LRF
Rating	0.8
(65) Inventory Rating Method	8 - Load and Resistance Factor
(66) Inventory Rating	
Type	
Rating	0.62
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	3
(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	74.803152 ft
(94) Bridge Improvement Cost (Multiply value by 1000)	$ 128
(95) Roadway Improvement Cost (Multiply value by 1000)	$ 13
(96) Total Project Cost (Multiply value by 1000)	$ 192
(97) Year of Improvement Cost Estimate	1995
(114) Future ADT	48
(115) Year of Future ADT	2045

INSPECTIONS *			
(90) Inspection Date			08/10/2024
(91) Frequency			24
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			

* 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.

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Route Number: 648, **Mile Point:** 2.50
Team Lead: Jason Hefter, **Inspection Date:** 10/27/2025

SNBI SI&A

IDENTIFICATION	
B.ID.01 Bridge Number	021306000001024
B.ID.02 Bridge Name	W FORK OF SAN JUAN RIVER
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1954

LOCATION	
B.L.01 State Code	8 - Colorado
B.L.02 County Code	
B.L.03 Place Code	0
B.L.04 Highway Agency District	57
B.L.05 Latitude	37.44988333333333
B.L.06 Longitude	-106.91113611111112
B.L.07 Border Bridge Number	N
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	13.7 MI NNE OF PAGOSA SPG
B.L.12 Metropolitan Planning Organization	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	53.1
B.G.02 Total Bridge Length	53.1
B.G.03 Max Span Length	49.5
B.G.04 Min Span Length	49.5
B.G.05 Bridge Width Out-to-Out	16.1
B.G.06 Bridge Width Curb-to-Curb	14.1
B.G.07 Left Curb or Sidewalk Width	1
B.G.08 Right Curb or Sidewalk Width	1
B.G.09 Approach Roadway Width	15.1
B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	
B.G.13 Max Bridge Height	
B.G.14 Sidehill Bridge	
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	854.9

CLASSIFICATION	
B.CL.01 Owner	FL07 - U.S. Forest Service (USFS)
B.CL.02 Maint. Responsibility	FL07 - U.S. Forest Service (USFS)
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	7 - Historic significance of the br
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

LOADS AND LOAD RATING	
B.LR.01 Design Load	H15 - H-15
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LRFR - Load and Resistance Factor R
B.LR.05 Inventory Load RF	0.62
B.LR.06 Operating Load RF	0.8
B.LR.07 Controlling Legal Load RF	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	6 - SATISFACTORY - Widespread
B.C.02 Superstructure Condition	7 - GOOD - Some minor defects.
B.C.03 Substructure Condition	6 - SATISFACTORY - Widespread
B.C.04 Culvert Condition Rating	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	
B.C.06 Bridge Railing Transitions Condition	4 - POOR - Widespread moderate
B.C.07 Bridge Bearings Cond.	
B.C.08 Bridge Joints Condition	
B.C.09 Channel Condition Rating	2 - CRITICAL - Major defects.
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	1 - Bridge is closed to traffi
B.C.12 Bridge Condition Class	F - Fair
B.C.13 Lowest Condition Rating	6 - SATISFACTORY - Widespread
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Appr. Roadway Alignment	P - Poor
B.AP.02 Overtopping Likelihood	VLM-T - TEMP - Very low to moderate
B.AP.03 Scour Vulnerability	AB-T - TEMP - Stable for scour, pos
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	

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SPAN SETS			
M1			
B.SP.02 # of Spans	1	B.SP.08 Deck Interaction	
B.SP.03 # of Beam Lines		B.SP.09 Deck Material and Type	CR-T - TEMP - concrete cast-in
B.SP.04 Span Material	S-T - TEMP - steel - S01 or S0	B.SP.10 Wearing Surface	C01 - Concrete - monolithic
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	GB-T - TEMP - girder/beam - G0	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System		B.SP.13 Deck Stay-In-Place Forms	

HIGHWAY FEATURES			
H1			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	32
B.F.03 Feature Name	FDR 648	B.H.10 Annual ADTT	
B.H.01 Functional Classification	7 - Local	B.H.11 Year of Annual ADT	2002
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	N - Non-NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	N - Not on the NHFN	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID		B.H.16 Highway Max Usable Surface Width	13.7
B.H.07 LRS Mile Point	2.485	B.H.17 Bypass Detour Length	98
B.H.08 Lanes On Highway	1	B.H.18 Crossing Bridge Number	

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	R01	648	2-T - TEMP - Two-way traffic - NS or EW	6 - Federal lands road	1 - Mainline

WATERWAY FEATURES			
W1			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	W FORK OF SAN JUAN RIVER	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent - Open	

LOAD EVALUATION AND POSTING			
B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value

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INSPECTION SUMMARY

Inspection Type: Critical Finding
Inspection Begin Date: 10/27/2025
Inspection Completion Date: 10/27/2025
Inspection Team Lead: Jason Hefter

Inspection Interval:
Inspection Equipment:

Latitude: 37.44988333333333
Longitude: -106.91113611111112
Region: R2, ROCKY MOUNTAIN REGION
Security ID: 0213 - SAN JUAN NATIONAL FOREST
Inspection Team: TUCKER BOWMAN, BENJAMIN GLENN, JASON HEFTER
Complex Features:
NSTM Inspection Required: N - NSTM inspection not required.

Previous Bridge Number:
Development Status: EXISTING - ACTIVE
Structure Jurisdiction: FS - FOREST SERVICE
Inspection Responsibility: FS - FOREST SERVICE
Done By: FS - FOREST SERVICE
Fatigue Prone Details:
Underwater Inspection Required: N - Underwater inspection not required

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Bridge Condition Classification: F - Fair
Lowest Condition Rating Code: 6

Inspection Remarks: Damage from October 2025 flooding. Severe scour on right abutment resulting in strength and performance being affected. Critical finding resulting in bridge closure. Bridge was overtopped by flood event.

CONDITION & APPRAISAL DETAILS

B.C.01 Deck Condition Rating (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

B.C.02 Superstructure Condition Rating (7 - GOOD - Some minor defects.)

B.C.03 Substructure Condition Rating (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

B.C.04 Culvert Condition Rating (N - NOT APPLICABLE - Component does not exist.)

B.C.06 Bridge Railing Transitions Condition Rating (4 - POOR - Widespread moderate or isolated major defects; strength and/or performance of the component is affected.)

Minor increases in previously damaged transition due to overtopping of bridge.

B.C.09 Channel Condition Rating (2 - CRITICAL - Major defects. Bridge or approach roadway is severely threatened. Condition typically necessitates frequent monitoring, significant load restrictions, and/or corrective actions in order to keep the bridge open.)

Channel realigned to attack right abutment. Significant deterioration of upstream and downstream banks on both river left and river right. Bank revetment needed on all sides to prevent further erosion. Stream key piece material needed to realign stream to center channel. Large debris jam present on left abutment.

B.C.11 Scour Condition Rating (1 - Bridge is closed to traffic due to scour condition. Channel rehabilitation may return the bridge to service.)

Right abutment severely undermined - max 4.5 feet deep (measured toe to stream bed bottom) and 4 feet under center (measured toe towards back of abutment) .

Wearing Surface Condition (7 -GOOD)

Approach Roadway Condition (GOOD)

B.AP.01 Approach Roadway Alignment (P - Poor)

B.AP.02 Overtopping Likelihood (VLM-T - TEMP - Very low to moderate - 2 or 3 or 4)

B.AP.03 Scour Vulnerability (AB-T - TEMP - Stable for scour, possibly dependent on countermeasures - A or B)

B.AP.04 Scour Plan of Action (0 - A scour POA is not required.)

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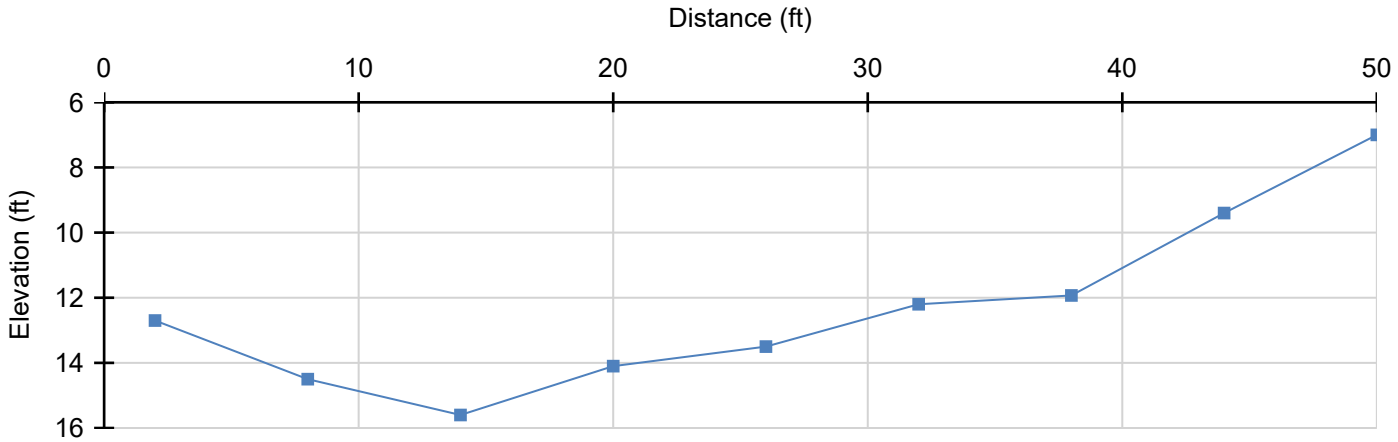
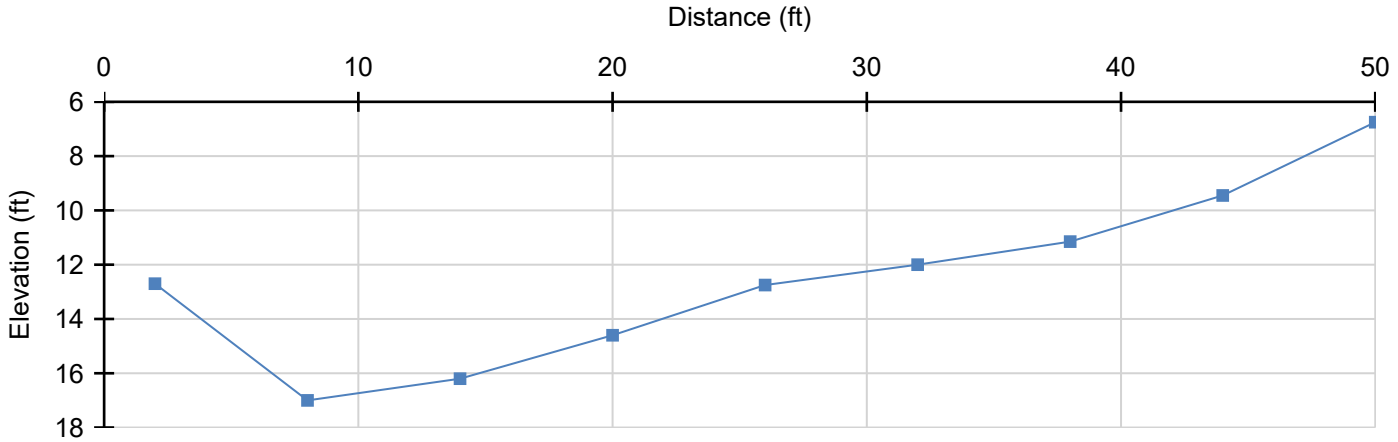
STREAM CROSS SECTION

Station Remark	Horizontal Distance (ft)	Vertical Distance US (ft)	Vertical Distance DS (ft)
Right abutment footer post 1	2	12.7	12.7
Post 2	8	14.5	17
Post 3	14	15.6	16.2
Post 4	20	14.1	14.6
Post 5	26	13.5	12.75
Post 6	32	12.2	12
Post 7	38	11.93	11.15
Post 8	44	9.4	9.45
Left abutment Post 9	50	7	6.75

Upstream Cross Section



Downstream Cross Section



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MAINTENANCE ITEMS

Date Reported: 10/22/2025

Priority: Critical Finding
Status: Open
Type of Work: Repair
Component: Substructure

Deficiency Description

Scour hole under right abutment to be filled with engineered structural fill. Approximately 16 cubic yards

Remarks

Hole may grow in size and should be reinspected to get exact measurements

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Date Reported: 10/22/2025

Priority: Critical Finding
Status: Open
Type of Work: Replace
Component: Channel Protection

Deficiency Description

Channel protection is missing and needs to be replaced. Major repair work required to ensure bridge safety from future flooding. Approximately 145 cubic yards of channel protection used on river right side.

Remarks

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CRITICAL FINDINGS

Critical Finding ID:

CF Inspection Date: 10/22/2025

Forest Specific Event Name: 2025 CO Oct10-13 FS Four Corners Monsoon Storms

CF Inspection Interval: 3

CF Status: RO-Active

CF Found Date: 10/22/2025

Condition Summary: B.C.01 - 6 B.C.02 - 7 B.C.03 - 6 B.C.04 - N B.C.09 - 2 B.C.11 - 1

Event Description/Cause (B4):

Rain

CF Criterion (B5): A - Immediate correction of scour or hydraulic problems needed

If Other (B5A):

Event Type/Cause (B12): B - Flood

If Other (B12A):

Deterioration (B13): Other - Please explain

If Other (B13A): Abutment undermining

Detailed Deficiency (B14): Other - Please explain

If Other (B14A): Abutment undermining

CF Results (B15): D - Settlement or loss of support

If Other (B15A):

Initial Actions (B17):
10/22/2025

Close bridge, place temporary riprap to divert flow to center of channel

Resolved Actions (B19):

Future Actions (B20):

Underpin or replace abutment, add scour countermeasures and stream training measures

CF Remarks:

Bridge closure in place as of 10/23/2025

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PHOTOS

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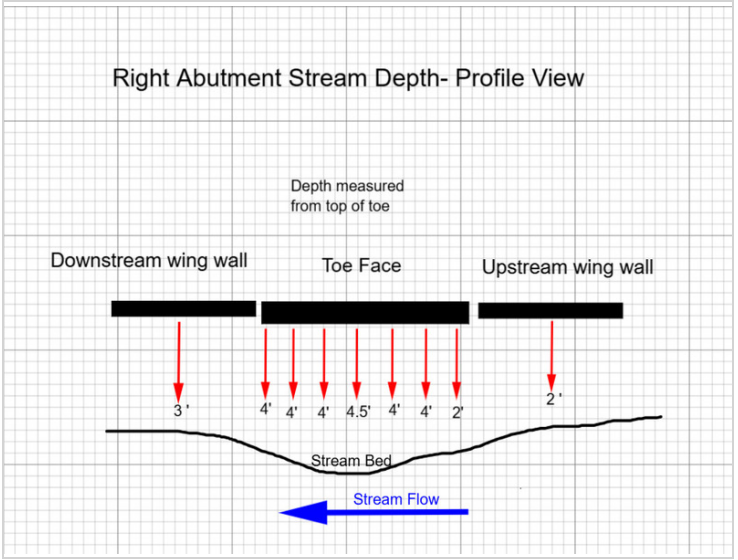
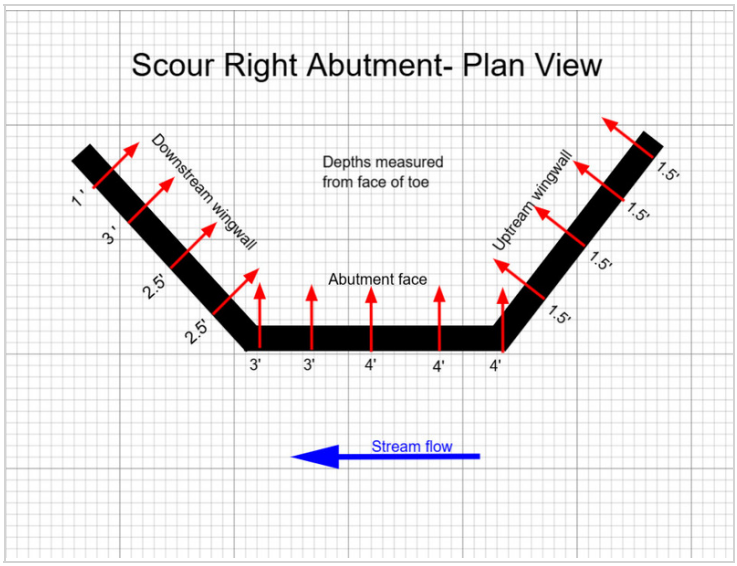
Overtopping screenshot from public video taken from left side facing right



Side profile right abutment scour



Plan view right abutment scour

Left abutment

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Looking upstream cross section

Debris jam left side

Upstream left side erosion

Looking downstream cross section

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Upstream left side erosion

Upstream with measurement

Upstream

Hole on upstream right wing wall

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Right approach

Upstream wingwall erosion measurements- 4 feet long

Upstream wingwall erosion measurements- 4 feet wide

Upstream wingwall erosion measurements- 72 in deep

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Left approach

Deck General

Damaged boxing glove

Scour Right Abutment- 4 feet under footer under beam 3

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-Scour Right Abutment- 3 feet under footer at downstream corner

Scour Right Abutment- 3 feet under footer

Scour Right Abutment- -Center of bridge 4 feet under footer

Upstream scour of right abutment wingwall

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Scour Right Abutment- 1.5 feet under front of footer

Footer to streambed measurements right abutment -2 feet

Footer to streambed measurements right abutment -3 feet

Footer to streambed measurements right abutment -4 feet

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Footer to streambed measurements right abutment -4 feet

Footer to streambed measurements right abutment -4.5 feet

Footer to streambed measurements right abutment -4 feet

Footer to streambed measurements right abutment -4 feet

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Footer to streambed measurements right abutment -3.5 feet

Footer to streambed measurements right abutment -4 feet

Scour Right Abutment-2.5 feet under footer

Scour Right Abutment-2.2 feet under footer

Forest Service
U.S. DEPARTMENT OF AGRICULTURE

Structure Number: #021306000001024 / **Critical Finding**
Bridge Name: W FORK OF SAN JUAN RIVER
Route Number: 648, **Mile Point:** 2.50
Team Lead: Jason Hefter, **Inspection Date:** 10/27/2025

Scour Right Abutment-3 feet under footer downstream

Scour Right Abutment-1 foot under footer downstream

Downstream right bank erosion

Downstream right bank erosion

Forest Service
U.S. DEPARTMENT OF AGRICULTURE

Structure Number: #021306000001024 / **Critical Finding**
Bridge Name: W FORK OF SAN JUAN RIVER
Route Number: 648, **Mile Point:** 2.50
Team Lead: Jason Hefter, **Inspection Date:** 10/27/2025

Curb spalling with exposed rebar

Curb spalling with exposed rebar

Curb spalling with exposed rebar

Curb spalling with exposed rebar

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Structure Number: #021306000001024 / **Critical Finding**
Bridge Name: W FORK OF SAN JUAN RIVER
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Curb spalling with exposed rebar

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