



NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **HURRICANE HELENE  
 BRIDGE FAILURE, ROADWAY CLOSED**

# Structure Safety Report

## High Water Supplemental

STRUCTURE NUMBER: 990194      SAP STRUCTURE NO: 1000194      FHWA STRUCTURE NO: 000000001990194

DIVISION: 13      COUNTY: YANCEY      INSPECTION DATE: 10/08/2024      FREQUENCY: None

FACILITY CARRIED: SR1314      MILE POST: \_\_\_\_\_

LOCATION: 3.8 MI.N.JCT.SR1308

FEATURE INTERSECTED: NORTH TOE RIVER

LATITUDE: 36° 0' 16.65"      LONGITUDE: 82° 11' 35.28"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON PRESTRESSED CONC. GIRDERS

SUBSTRUCTURE: ABUTMENTS:REINFORCED CONCRETE;INT.BTS:RC POST&BEAM

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL     TEMPORARY SHORING     SCOUR CRITICAL     SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding)    DECK 0/7    SUPERSTRUCTURE 0/7    SUBSTRUCTURE 0/6    CULVERT N/N

POSTED SV: Not Posted      POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> <b>WEIGHT LIMIT</b>	<u>0</u>
<u>NO</u> <b>DELINEATORS</b>	<u>0</u>
<u>NO</u> <b>NARROW BRIDGE</b>	<u>0</u>
<u>NO</u> <b>ONE LANE BRIDGE</b>	<u>0</u>
<u>NO</u> <b>LOW CLEARANCE</b>	<u>0</u>

**DIRECTION OF INSPECTION**      N-S

**DIRECTION MATCHES PLANS**      \_\_\_\_\_

north approach looking south

INSPECTED BY WILLIAM MITCHELL	SIGNATURE <i>William C. Mitchell</i>	ASSISTED BY COLIN REDINGTON
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Structure: 990194

County: YANCEY

Date: 10/08/2024

Condition Photos

# Bridge Inspection Field Sketch

SR 1314



Roadway	20ft Wide	2 Paved Lanes	Looking North
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	2ft Wide		2ft Unpaved
Left Guardrail	2ft from road		
Right Guardrail	2ft from road		

MEASUREMENTS TAKEN 1' SOUTH OF END BENT 1

Title  
ROADWAY

Description  
LOOKING NORTH

Structure No: 990194

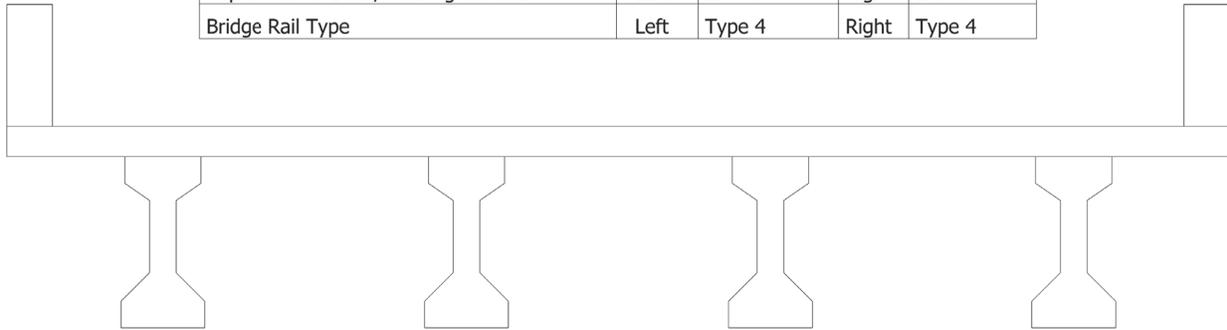
Drawn By: BRYAN CROOM

Date: 6/8/2023

Filename: S000642000329.wes

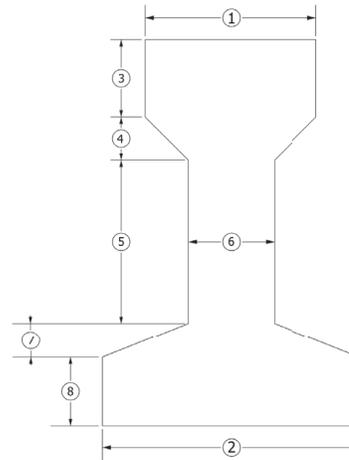
# Bridge Inspection Field Sketch

Deck Width/Out to Out	26.83ft	Between Rails	24ft	
Clear Roadway	24ft	Wearing Surface		
Median Width		Median Height		
Curb Height		Left		Right
Sidewalk Width		Left		Right
Clear Roadway (Rail to Median)		Left		Right
Guardrail Width		Left	17in	Right 17in
Top of Rail to Deck/Wearing Surface		Left	2.67ft	Right 2.67ft
Bridge Rail Type		Left	Type 4	Right Type 4



Measurements for Span #	1 - 4		
Deck Thickness	8in	Left Overhang	3.417ft
Top of Rail to Bottom of Beam (Avg)	7.087ft	Right Overhang	3.417ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Prestressed Concrete Girder	22.5in	45in	3.417ft	Left Edge of Deck
2	Prestressed Concrete Girder	22.5in	45in	6.67ft	Beam 1
3	Prestressed Concrete Girder	22.5in	45in	6.67ft	Beam 2
4	Prestressed Concrete Girder	22.5in	45in	6.67ft	Beam 3



Span 1: Beam 1	
1	20in
2	22.5in
3	7in
4	4.5in
5	19in
6	7in
7	7.5in
8	7in

Title  
SPANS 1 - 4 SUPERSTRUCTURE

Description  
LOOKING NORTH

Structure No: 990194

Drawn By: BRYAN CROOM

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# Bridge Inspection Field Sketch



Caps							
#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	23ft	38in	36in	1.5ft	1.5ft
Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4.75ft	Left End of Bent	36in		18ft
2	Pile 2	Reinforced Concrete Column	13.5ft	Pile 1	36in		18ft

Title  
BENTS 1 - 3 SUBSTRUCTURE

Description  
LOOKING NORTH

Structure No: 990194

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north approach looking south