Structure Safety Report

Routine Element Inspection

INSPECTION DATE: 07/15/2021

DIVISION: 13	COUNTY: YANCEY	STR	UCTURE NUMBER	990097	FREC	QUENCY:	24 MONT	ГНЅ
FACILITY CARRIED:	SR1152				MILE POST:			
LOCATION: .02 MI.S	S.JCT.SR1201							
FEATURE INTERSEC	CTED: SOUTH TOE I	RIVER						
LATITUDE: 35° 52'	16.4"	LONGITUI	DE : 82° 11' 48.47	"				
SUPERSTRUCTURE	:							
SUBSTRUCTURE:								
SPANS: 3 SPANS		LE SHEET FOR SPAN						
FRACTURE CRI	TICAL TEMPO	DRARY SHORING	SCOUR CRIT	ICAL	SCOUR	PLAN OF	ACTION	
GRADES: (Inspector	/NBI Coding) DECK 7	/7 SUPERSTRUC	TURE 7/7	SUBSTRUC	TURE 7/7	CUL	/ERT N/I	N
POSTED SV: Not F	Posted		POSTED TTS	ST: Not Pos	sted			
			_					
OTHER SIGNS PRES	SENT: NONE							
					Sign noticed issued for		IT LIMIT	Number Required
35			And the second		NO	DELIN	EATORS	0
		Services			NO	NARROW	/ BRIDGE	0
			The state of the s		NO	ONE LAN	E BRIDGE	0
					NO	LOW CLE	ARANCE	0
		- N						
					INSP DIRE	CTION OF ECTION ECTION ES PLANS	S-N	
SOUTH APPROAC	CH LOOKING NORTH	l						
INSPECTED BY Joseph Huntsinger		SIGNATURE	Journ At		ASSISTED BY	Dennis V	Vilson	

IDENTIFICATION —	31		II I IVAIVAE		0/11/202
(1) STATE NAME NORTH CAROLINA BRIDGE	990097	SUFFICIENCY RATING			98.6
	1990097	STATUS =			
(5) INVENTORY ROUTE (ON/UNDER) ON 131	1011520	C	LASSIFICATION		CODE
(2) STATE HIGHWAY DEPARTMENT DISTRICT	13	(112) NBIS BRIDGE SYSTEM			YE
(3) COUNTY CODE (FEDERAL) 199 (4) PLACE CODE (6) FEATURE INTERSECTED SOUTH TOE RIVER	00000	(104) HIGHWAY SYSTEM	Inventory Route	not on NHS	
(7) FACILITY CARRIED SR1152		(26) FUNCTIONAL CLASS	Rural Mino	or Collector	C
(9) LOCATION .02 MI.S.JCT.SR1201		(100) STRAHNET HIGHWAY	Not a STRAH	INET Route	
(11) MILEPOINT	0.0	(101) PARALLEL STRUCTURE	No parallel struc	cture exists	
(12) BASE HIGHWAY NETWORK	0	(102) DIRECTION OF TRAFFIC	2	-way traffic	
(13) LRS INVENTORY ROUTE & SUBROUTE	40 47"	(103) TEMPORARY STRUCTURE		•	
(16) LATITUDE 35° 52' 16.4" (17) LONGITUDE 82° 11 (98) BORDER BRIDGE STATE CODE PERCENT SHARED	l' 48.47"	(110) DESIGNATED NATIONAL NE	TWORK - on national network	k for trucks	
(99) BORDER BRIDGE STRUCTURE NUMBER		(20) TOLL		ree Road	
· ,		(21) MAINT -	O.I.	TTTCC ROUG	(
STRUCTURE TYPE AND MATERIAL		• ` '			
(43) STRUCTURE TYPE MAIN Prestressed C		(22) OWNER -			C
TYPE Stringer/Multi-beam or girder CODE	502	(37) HISTORICAL SIGNIFICANCE	-		
(44) STRUCTURE TYPE APPROACH			CONDITION	c	CODE
TYPE CODE		(58) DECK			
(45) NUMBER OF SPANS IN MAIN UNIT	3	(59) SUPERSTRUCTURE			
(46) NUMBER OF SPANS IN APPROACH	0	(60) SUBSTRUCTURE			
(107) DECK STRUCTURE TYPE CODE	1	(61) CHANNEL & CHANNEL PROT	TECTION		
(108)WEARING SURFACE/PROTECTIVE SYSTEM		(62) CULVERTS			
(A) TYPE OF WEARING SURFACE CODE	1	LOAD RA	ATING AND POSTING		CODE
(B) TYPE OF MEMBRANE CODE	0	(31) DESIGN LOAD		H 20 + Mod	
(C) TYPE OF DECK PROTECTION CODE	0	(63) OPERATING RATING METHO)D - L	oad Factor	
AGE AND SERVICE -		(64) OPERATING RATING -		HS-55	9
(27) YEAR BUILT	1981	(65) INVENTORY RATING METHO	DD -		
(106) YEAR RECONSTRUCTED	0	(66) INVENTORY RATING		HS-28	5
(42) TYPE OF SERVICE ON -	Highway	(70) BRIDGE POSTING	No Postin	g Required	
OFF - Waterway CODE	15	(41) STRUCTURE OPEN, POSTED	O, OR CLOSED		
(28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE	0	DESCRIPTION	Open, no	restriction	
(29) AVERAGE DAILY TRAFFIC	480		APPRAISAL		CODE
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT	6	(67) STRUCTURAL EVALUATION			
(19) BYPASS OR DETOUR LENGTH	9.0	(68) DECK GEOMETRY			
GEOMETRIC DATA —		(69) UNDERCLEARANCES, VERT	& HORIZ		
(48) LENGTH OF MAXIMUM SPAN	59.0	(71) WATERWAY ADEQUACY			
(49) STRUCTURE LENGTH	160.0	(72) APPROACH ROADWAY ALIG	NMENT		
(50) CURB OR SIDEWALK: LEFT 0.0 RIGHT	0.0	(36) TRAFFIC SAFETY FEATURES			111
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT	30.0 32.8	(113) SCOUR CRITICAL BRIDGES			
(32) APPROACH ROADWAY WITH (W/ SHOULDERS)	21.0	,	SED IMPROVEMENTS -		
(33) BRIDGE MEDIAN No median CODE	0	(75) TYPE OF WORK	SED IMPROVEMENTS =	CODE	
(34) SKEW 8 (35) STRUCTURE FLARED	1	(76) LENGTH OF STRUCTURE IM	PROVEMENT		
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9	(94) BRIDGE IMPROVEMENT COS			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	29.3	. ,			
(53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR: REFERENCE	999.9 0.0	(95) ROADWAY IMPROVEMENT C	,001		
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE N	0.0	(96) TOTAL PROJECT COST	OCT FOTIMATE		
(56) MIN LAT UNDERCLEARANCE LT:	0.0	(97) YEAR OF IMPROVEMENT CO			
NAVICATION DATA		(114) FUTURE ADT	960 YEAR OF FUTURE	ADI	204
(38) NAVIGATION CONTROL - CODE	0	(90) INSPECTION DATE	INSPECTION 07/21 (91) FF	REQUENCY	2
(111) PIER PROTECTION CODE	v	(92) CRITICAL FEATURE INSPECT		(93) CFI DATE	
(111) LENTING LOTION CODE				(, 55/11	
/30\ NA\/ICATION\ \/ERTICAL OLEARANCE			- A)		
(39) NAVIGATION VERTICAL CLEARANCE	0.0	A) FRACTURE CRIT DETAIL	·		
(39) NAVIGATION VERTICAL CLEARANCE (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR (40) NAVIGATION HORIZONTAL CLEARANCE	0.0 0.0 0.0	B) UNDERWATER INSP C) OTHER SPECIAL INSP	B)		

Superstructure Build Details

Span Number 1

Span Length 60.0000

Skew 81.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1314 Square Feet		
5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	200 Feet		
10	Elastomeric Bearing Pad	Elastomeric Bearing	10 Each		
2	Concrete Railing	Reinforced Concrete Bridge Railing	120 Feet		

Span Number 2

Span Length <u>60.0000</u>

Skew 81.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	120	Feet		
1	Standard Joint	Pourable Joint Seal	32	Feet		
5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	300	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1970	Square Feet		
10	Elastomeric Bearing Pad	Elastomeric Bearing	10	Each		

Span Number $\underline{3}$

Span Length <u>40.0000</u>

Skew 81.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
10	Elastomeric Bearing Pad	Elastomeric Bearing	10	Each		
2	Concrete Railing	Reinforced Concrete Bridge Railing	80	Feet		
5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	302	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1554	Square Feet		
1	Standard Joint	Pourable Joint Seal	32	Feet		

Structure Element Scoring

Structure Number: 990097 Inspection Date 7/15/2021

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	4838	4746	92	0	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	802	802	0	0	0
205	0	Reinforced Concrete Column	Piles and Columns	2	1	0	1	0
215	0	Reinforced Concrete Abutment	Abutments	95	95	0	0	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	34	17	17	0	0
225	0	Steel Pile	Piles and Columns	14	14	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	140	140	0	0	0
521	234	Concrete Protective Coating	Caps	290	290	0	0	0
301	0	Pourable Joint Seal	Expansion Joints	64	64	0	0	0
310	0	Elastomeric Bearing	Bearing Device	30	30	0	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	320	319	0	1	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 990097 Inspection Date: 07/15/2021

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	38 Square Feet
3348	Reinforced Concrete Column	Scour	1 Each
3348	Reinforced Concrete Pile Cap/Footing	Scour	17 Feet
3318	Reinforced Concrete Bridge Railing	Damage	1 Feet

Element Structure Maintenance Quantities

Structure Number: 990097 Inspection Date 07/15/2021

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	95	0	0	0	95
Beam	3306	Maintenance Concrete Superstructure Components	0	802	0	0	0	802
Bearing Device	3334	Bridge Bearing	0	30	0	0	0	30
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	1	320	0	1	0	319
Caps	3348	Maintenance of Concrete Substructure	0	140	0	0	0	140
Caps	5603	Partial Cleaning and Painting of Structural Steel	0	290	0	0	0	290
Deck	3326	Maintenance of Concrete Deck	38	4838	0	0	92	4746
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	64	0	0	0	64
Footing	3348	Maintenance of Concrete Substructure	17	34	0	0	17	17
Piles and Columns	3348	Maintenance of Concrete Substructure	1	2	0	1	0	1
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	14	0	0	0	14
							 	

Element Condition and Maintenance Data

Structure Number: 990097 Inspection Date: 07/15/2021

aotaio							opoolion	Bate: <u>91719/202</u>
Spa	ın 1	Deck						
Rei	nforced Concrete	e Deck						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	=
12	Reinfo	rced Concrete Deck	1,314	1,280	34	0	0	Square Feet
Elemer Numbe	Dofoct Type	Defect De	scription		cs	CS Qty	Maint Qty	
12	Patched Areas	ed Areas SOUND PATCHES MADE ALONG THE FAR JOINT AS REPAIRS TO PREVIOUS PRIORITY MAINTENANCE.			2	34		Square Feet
	General Comments							

Span 2	2	Deck						
Reinfo	orced Concrete	Deck						
Eleme Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,970	1,950	20	0	0	Square Feet
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	
12 P	atched Areas	SOUND PATCHES MADE ALON REPAIRS TO PREVIOUS PRIOR			2	20		Square Feet
Ge	neral Comments							

Span	3	Deck						
Reinfo	orced Concrete	Deck						
Eleme Numb	er	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,554	1,516	38	0	0 8	Square Feet
Element Number	Defect Type	Defect De	scription		cs	CS Qty	Maint Qty	
	Cracking (RC and Other)	HAIRLINE LONGITUDINAL CRA OF RIGHT LANE STARTING AT	, ,	MIDDLE	2	8	8	Square Feet
	Cracking (RC and Other)	SIX (6) UP TO 1/16 IN WIDE LO FT LONG, WITH 1 FT SPACING BENT 1 DECK JOINT.			2	30	30	Square Feet
Ge	eneral Comments							

Span 3		Left Bridge F	Rail					
Concrete	e Railing							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	40	39	0	1	0 Feet	
Element Number	Defect Type	Defect Descri	ption		cs	CS Qty	Maint Qty	
331 Dam	nage	HEAVY IMPACT DAMAGE ALONG TRANSITION AT NORTHWEST CO			3	1	1 Fee	t

General Comments

Structure Number: 990097 Inspection Date: 07/15/2021

Bent 1		Footing						
Reinfo	rced Concrete	Footing						
Elemen Number 220	r	Element Name rced Concrete Pile Cap/Footing	Total Qty 17	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	eet
Element Number	Defect Type	Defect Descript			cs	CS Qty	Maint Qty	
NORTH FACE, UP EXPOSURE IN SO		17 FT LONG X UP TO 2 FT HIGH VEI NORTH FACE, UP TO 4 FT LONG X EXPOSURE IN SOUTH FACE, 4 FT L VERTICAL EXPOSURE IN WEST FA	1.3 FT HIGH VEI ONG X 1.8 FT		2	17	17	Feet
Gen	eral Comments							

Bent 2		Pile 1						
Reinfo	rced Concrete	Column						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ced Concrete Column	1	0	0	1	0 Each	
lement lumber	Defect Type	Defect Desci	ription		cs	CS Qty	Maint Qty	
205 Sc	our	SCOUR HOLE, APPROXIMATELY AROUND THE COLUMN.	5 FT DEEP X 5 ALL		3	1	1 Each	

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1314
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	40
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	40
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	40
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	40
Span 1	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	40
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	60
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	60
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1970
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	60
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	60
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	60
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	60
Span 2	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	60
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	60
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	60
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	32
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1554
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	61
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	61
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	60
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	60
Span 3	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	60
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	40
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	40

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Expansion Joint	Standard Joint	Pourable Joint Seal	32
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Footing	Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	17
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	42
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	50

General Inspection Notes

Bent 1 Pile 1

END BENT PILES ARE NOT VISIBLE

National Bridge and NC Inspection Items

Structure Number: 990097 Inspection Date: 07/15/2021

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	7
Item 60: Substructure	0 - 9 , N	7
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C		0	3350
Field Scour Evaluation		L		
Drift	G, F, P, or C	F	18	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code				

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	N
Inspection Time	Hours	2
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N
Portion of Structure in > 3' of water	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 990097 Inspection Date: 07/15/2021

Item Drift Grade F Maint Code 3366 Qty. 18

Details DRIFT 25' WIDE X 5' HIGH X 10' DEEP LODGED AGAINST BENT 2.

Item General Comments and Misc Items Grade Maint Code Qty. 0

Details SOUTH APPROACH: SETTLEMENT AND TRANSVERSE CRACKING IN THE APPROACH WEARING SURFACE FOR 8' LONG BEGINNING AT THE FILL FACE.

NORTH WEST GUARD RAIL CONNECTION: SCRAPE DAMAGE 10' LONG BEGINNING AT ATTACHMENT TO BRIDGE WITH ONE RAIL POST DISPLACED.

Structure: 990097 County: YANCEY Date: 07/15/2021 Condition Photos



DRIFT 25' WIDE X 5' HIGH X 10' DEEP LODGED AGAINST BENT 2.



SOUTH APPROACH: SETTLEMENT AND TRANSVERSE CRACKING IN THE APPROACH WEARING SURFACE FOR 8' LONG BEGINNING AT THE FILL FACE.

Structure: 990097 County: YANCEY Date: 07/15/2021 Condition Photos



NORTH WEST GUARD RAIL CONNECTION: SCRAPE DAMAGE 10' LONG BEGINNING AT ATTACHMENT TO BRIDGE WITH ONE RAIL POST DISPLACED.

Stream Bed Soundings (Profile diagram on following sheet)

County YANCEY Structure Number: 990097 Inspection Date 07/15/2021

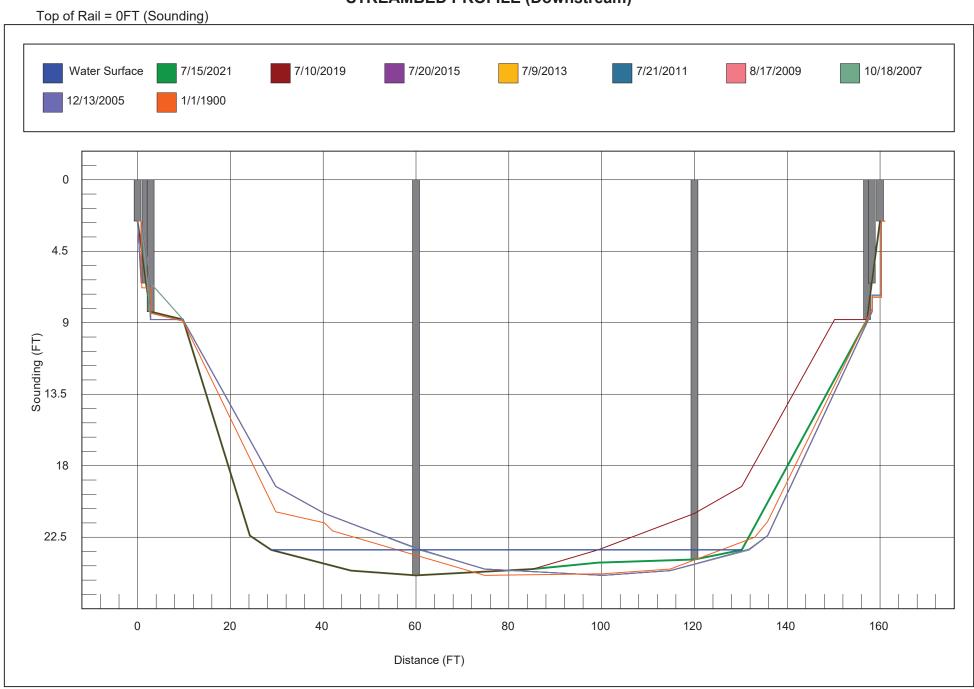
Sounding recorded from: Top of Bridge Rail

Highwater Mark Distance Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.600	0.000	FF END BENT 1
1.800	6.500	0.000	TOP OF CAP END BENT 1
2.800	8.300	7.900	SF END BENT 1
9.800	8.800	0.000	
24.200	22.400	0.000	
28.800	23.300	0.000	WSWE
46.000	24.600	0.000	
60.000	24.900	23.900	BENT 1
85.200	24.500	0.000	
99.200	24.100	0.000	
120.000	23.900	23.600	BENT 2
130.200	23.300	0.000	WSWE
157.200	8.800	8.300	SF END BENT 2
158.200	6.500	0.000	TOP OF CAP END BENT 2
160.000	2.600	0.000	FF END BENT 2

Bridge: 990097 County: YANCEY Date: 07/15/2021

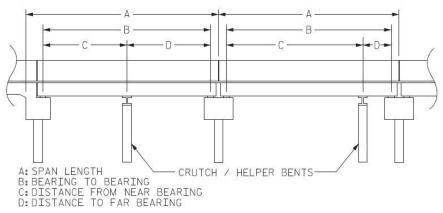
STREAMBED PROFILE (Downstream)



Structure Data Worksheet

Span Profile





Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	60.000	56.000			
2	60.000	58.500			
3	40.000	36.917			



TYPICAL GUARDRAIL END TREATMENT AND POST SPACING



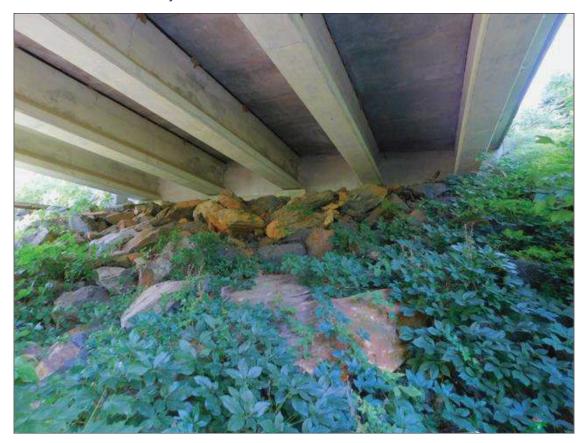
SOUTH APPROACH LOOKING NORTH



TYPICAL GUARDRAIL CONNECTION



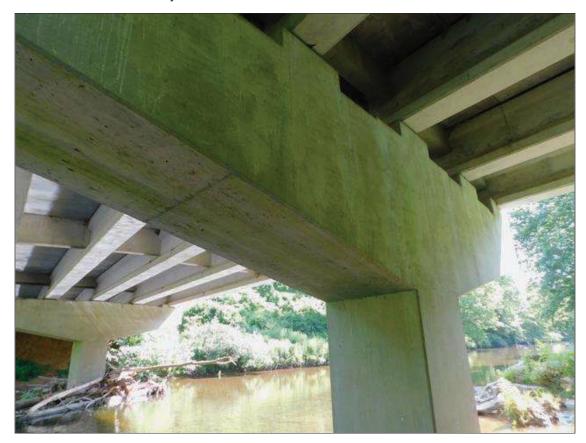
UPSTREAM PROFILE



END BENT 1



DECK UNDERSIDE



BENT 1



BENT 2



DOWNSTREAM PROFILE



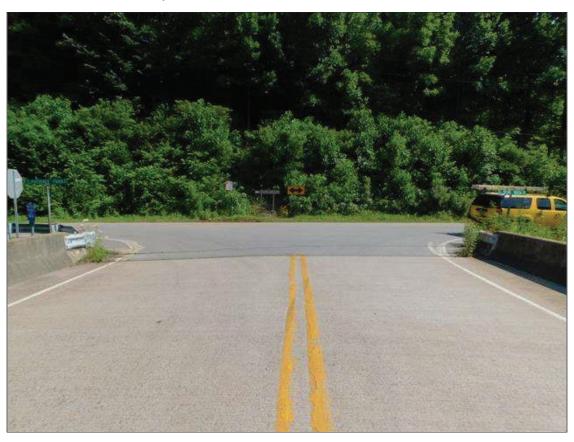
LOOKING SOUTH AT APPROACH GUARDRAIL



LOOKING DOWNSTREAM



LOOKING UPSTREAM



LOOKING NORTH AT APPROACH GUARDRAIL



NORTH APPROACH LOOKING SOUTH



END BENT 2

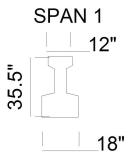
Bridge Inspection Field Sketch

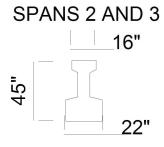
Deck Width/Out to Out	32.833ft	Between Rails			30ft
Clear Roadway	29.333ft	Wearin	Wearing Surface		
Median Width		Median Height			
Curb Height		Left	Oft	Right	Oft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Medi	ian)	Left		Right	
Guardrail Width		Left	1.417ft	Right	1.417ft
Top of Rail to Deck/Wearing Surface			2.667ft	Right	2.667ft
Bridge Rail			Type 4	Right	Type 4



Measurements for Span #	1		
Deck Thickness	0.708	Left Overhang	3.083
Top of Rail to Bottom of Beam	6.500	Right Overhang	3.083

Beam Number	Beam Type	Spacing
1 thru 5	PPC Girder	6.667ft





7/15/21 - J.C.HUNTSINGER

Typical Section Da	Data Worksheet				
Bridge No: 990097 Drawn By: Roy W. Shook	Date: _{10/18/2007} File Name:S0106000674				

Bridge Inspection Field Sketch

150' SOUTH OF BRIDGE

Roadway	20.167ft Wide	2 Paved Lanes	Looking North
Left Shoulder	0.5ft Wide	0.5ft Paved	
Right Shoulder	0.5ft Wide	0.5ft Paved	
Left Guardrail			
Right Guardrail			

7/15/21 - J.C.HUNTSINGER

Title		Description					
Approach Roadway		Data Worksheet					
Bridge No: 990097	Drawn By: JOE C HUNTSINGER	Date: 07/09/2013	File Name:S0106000673				

Bridge Inspection Field Sketch

Cap Inf	formation		Material	Cast-in-	Place Concre	ete						
Lengtl		Height Left Overhang		hang			eam to End of Cap. Ri		Righ	ght Beam to End of Cap.		
30.667	ft. 4.000 ft.	3.167 ft.	15.33	3 ft.	15.333 ft.		1.8	833 ft. 1.8			.833 ft.	
Subcap	o Information		Material									
Lengtl	h Width	Height	Left Over	hang	Right Overhang I		Left Pi	eft Pile to Splice.				
Sill Info	ormation		Material									
Lengtl	h Width	Height										
Pile#	Material	Spacing	Width/Dia.	Height	Length	Orientation		Driven?	Replacem	ent?	Removed?	Collar?
1	Concrete		4 ft.	4 ft.		Vertical		No	No	No	No	No

Description

SUBSTRUCTURE DETAILS

Date: 7/9/2013

File Name: \$0106001656

7/15/21 - J.C.HUNTSINGER

Drawn By: JOE C HUNTSINGER

Title

Bridge No:

INTERIOR BENTS

990097