

ATTENTION: SKETCHES UPDATED

NEW EPOXY OVERLAY INSTALLED SINCE PREVIOUS

INSPECTION

FAYETTEVILLE/FORT BRAG/POPE AAF SIGN

ATTACHED TO BRIDGE

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 11/05/2018

DIVISION: 6 COUNTY: CUMBERI	LAND STRUCT	TURE NUMBER: 250007	FREQ	UENCY: 24 MONT	HS
FACILITY CARRIED: SR2243			MILE POST:	395	
LOCATION: 0.1MI.W. OF JCT.SR2242					
FEATURE INTERSECTED: 195					
LATITUDE : 34° 55′ 16.71″	LONGITUDE:	78° 56' 46.62"			
SUPERSTRUCTURE: RC FLOOR ON PL	_ATE GIRDERS; APPRO	ACH SLABS			
SUBSTRUCTURE: EBTS:RC CAP/H-PILE	S;IBT:RCP&B/PILE FTG	S			
SPANS: 2 SPANS. SEE SPAN PROFIL	LE SHEET FOR SPAN DI	ETAILS			
FRACTURE CRITICAL TEMPO	RARY SHORING	SCOUR CRITICAL	SCOUR	PLAN OF ACTION	
NBI GRADES: DECK 7 SU	PERSTRUCTURE 7	SUBSTRUCTURE 7	CULVERT	г <u>N</u>	
POSTED SV: Not Posted		POSTED TTST: Not Po	sted		
OTHER SIGNS PRESENT: NONE			Sign noticed	ı	Number
			NO	WEIGHT LIMIT	Required 0
			NO	DELINEATORS	0
	- Allina		NO NO	NARROW BRIDGE	0
				ONE LANE BRIDGE	
			NO NO	LOW CLEARANCE	
	1		INSP	ETION OF W-E	
				ECTION ES PLANS	
west approach looking east					
INSPECTED BY RICARDO CORNEJO	SIGNATURE	sente Cornera	ASSISTED BY	SANYAM GURME	

Structure Element Scoring

Structure Number: 250007 Inspection Date 11/5/2018

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	О	Reinforced Concrete Deck	Deck	10874	10774	100	О	0
107	0	Steel Open Girder/Beam	Beam	1656	1656	0	0	0
515	107	Steel Protective Coating	Beam	25668	25668	0	0	0
205	0	Reinforced Concrete Column	Piles and Columns	3	3	0	0	0
215	0	Reinforced Concrete Abutment	Abutments	78	78	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	130	130	0	0	0
521	234	Concrete Protective Coating	Caps	359	359	0	0	0
302	0	Compression Joint Seal	Expansion Joints	108	70	35	2	1
313	0	Fixed Bearing	Bearing Device	12	7	4	1	0
515	313	Steel Protective Coating	Bearing Device	24	16	0	0	8
316	0	Other Bearings	Bearing Device	12	12	0	0	0
515	316	Steel Protective Coating	Bearing Device	24	24	0	0	0
321	0	Reinforced Concrete Approach Slabs	Approaches	864	864	0	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	560	533	25	2	0
510	0	Wearing Surface	Wearing Surfaces	10080	10080	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 250007 Inspection Date: 11/05/2018

MMS Code	Element Name	Defect Name	Recommended Quantity
3334	Fixed Bearing	Connection	1 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	2 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	8 Square Feet

Element Structure Maintenance Quantities

Structure Number: 250007 Inspection Date 11/05/2018

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	78	0	0	0	78
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	0	864	О	О	0	864
Beam	3314	Maintenance Steel Superstructure Components	0	1656	О	О	0	1656
Beam	3342	Clean and Paint Steel	0	25668	0	0	0	25668
Bearing Device	3334	Bridge Bearing	1	24	0	1	4	19
Bearing Device	3342	Clean and Paint Steel	8	48	8	0	0	40
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	2	560	0	2	25	533
Caps	3348	Maintenance of Concrete Substructure	0	130	0	0	0	130
Caps	5603	Partial Cleaning and Painting of Structural Steel	0	359	0	0	0	359
Deck	3326	Maintenance of Concrete Deck	0	10874	0	0	100	10774
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	108	1	2	35	70
Piles and Columns	3348	Maintenance of Concrete Substructure	0	3	0	0	0	3
Wearing Surfaces	2816	Asphalt Surface Repair	0	10080	0	0	0	10080

Element Condition and Maintenance Data

Structure Number: 250007 Inspection Date: 11/05/2018

lactare	14d11bC1. <u>230007</u>					11.1	Specifori	Date. 11/03/201
Spa	ın 1	Deck						
Rei	nforced Concrete	Deck						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	5,437	5,377	60	0	0	Square Feet
Elemer Numbe	Dofoct Typo	Defect De	escription		cs	CS Qty	Maint Qty	
12	Efflorescence/Rust Staining	south overhang, transverse crac efflorescence scattered through			2	60		Square Feet
	General Comments							

Span Conc	1 rete Railing	Left Bridge	Rail					
Eleme Numb	per	Element Name ced Concrete Bridge Railing	Total Qty 140	CS1 Qty 138	CS2 Qty	CS3 Qty	CS4 Qty 0 Fee	et
Element Number	Defect Type	Defect Descr	iption		cs	CS Qty	Maint Qty	
331 [Delamination/Spall	top of rail at 60ft from end bent 1, sp	all (14in x 5in x 2-	1/2in)	3	2	2 1	Feet
	Cracking (RC and Other)	vertical cracks scattered throughout	(full height x hairlir	ne)	1	35	i	Feet
G	eneral Comments							

Spa	an 1	Near Beari	ng					
Fix	ed Bearing							
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixe	ed Bearing	1	0	1	0	0	Each
515	Stee	el Protective Coating	2	0	0	0	2	Square Feet
Eleme Numb	Dofoot Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
313	Corrosion	paint failure with surface rust			2	1		Each
515	Effectiveness (Ste Protective Coating		ed (2sf)		4	2		2 Square Feet
	General Comment	s						

Spa	n 1	Near Bearing						
Fixe	ed Bearing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pro	otective Coating	2	0	0	0	2	Square Feet
lemen lumbe	Dofoot Typo	Defect Description			cs	CS Qty	Maint Qty	
313	Corrosion	paint failure with surface rust			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (2sf)			4	2		2 Square Feet

General Comments

Structure Number: <u>250007</u> Inspection Date: <u>11/05/2018</u>

Span 1		Expansion Joint 1						
Compre	ssion Seal							
Element Number	Element Nam	e	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal		36	36	0	0	0 Feet	
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

General Comments

at north end, joint covered with epoxy overlay (17-1/2ft)

Span 1		Wearing Surface						
Epoxy V	Vearing Surface							
Element Number	Elemen	t Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface		5,040	5,040	0	0	0	Square Feet
lement Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

General Comments

epoxy wearing surface added since last inspection

Spai	n 2	Deck						
Rein	forced Concrete	Deck						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinford	ced Concrete Deck	5,437	5,397	40	0	0	Square Feet
lement lumber	Defeat Time	Defect De	scription		cs	CS Qty	Maint Qty	
12	Efflorescence/Rust Staining	south overhang, transverse craceflorescence scattered through			2	40		Square Feet
(General Comments							

Spa	an 2	Expansion	Joint 2					
Co	mpression Seal							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Com	pression Joint Seal	36	0	35	0	1 Feet	
Eleme	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
302	Seal Adhesion	westbound lane at 10ft from rail, joil deck (1ft x 1/2in x full depth)	nt material separate	d from	4	1	Feet	
302	Debris Impaction	debris accumulation (full length)			2	35	Feet	
	General Comment	s						

Structure Number: 250007 Inspection Date: 11/05/2018

Spa Con	n 2 crete Railing	Left Bridge	Rail					
	nent	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	140	115	25	0	0	Feet
lemen Numbe	Dofoot Typo	Defect Descri	iption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	vertical cracks scattered throughout	vertical cracks scattered throughout (full height x hairline)			25		Feet
-	General Comments							

Span 2	Far Bearing

Opu.	• –	rai Boaring						
Fixe	d Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313 Fixed Bearing		earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Element	Dofoot Typo	Defect Description			cs	CS Qty	Maint Qty	
313	Corrosion	paint failure with surface rust			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (2sf)			4	2		2 Square Feet

General Comments

Span	Span 2			aring					
Fixed	d Beari	ing							
Elem Num			Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed E	Bearing	1	0	0	1	0	Each
515		Steel P	rotective Coating	2	2	0	0	0	Square Feet
Element Number	Dat	fect Type	Defect	Description		cs	CS Qty	Maint Qty	
313	Connect	ion	(2) anchor bolts nuts, missing	I		3	1		1 Each

General Comments

Spa	n 2	Far Bearing						
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
313	Fixed B	earing	1	0	1	0	0	Each
515	Steel Pr	rotective Coating	2	0	0	0	2	Square Feet
Elemen	Dofoot Typo	Defect Description	on		CS	CS Qty	Maint Qty	
313	Corrosion	paint failure with surface rust			2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed			4	2		2 Square Feet
	General Comments							

Structure Number: <u>250007</u> Inspection Date: <u>11/05/2018</u>

Spa	an 2	Expansion	n Joint 3					
Cor	mpression Seal							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	302 Compression Joint Seal		36	34	0	2	0	Feet
Eleme	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
302	Adjacent Deck or Header	eastbound lane at 5ft from rail, (4) (up to 11in x up to 1/8in)	tbound lane at 5ft from rail, (4) longitudinal cracks in header to 11in x up to 1/8in)			2		Feet
	General Comments							

at north end, joint covered with epoxy overlay (18ft)

Span 2		Wearing Surface						
Epoxy V	Vearing Surface							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface		5,040	5,040	0	0	0	Square Feet
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

General Comments

epoxy wearing surface added since last inspection

(enilor cec	d Concrete Pier Cap						
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	38	38	0	0	0	Feet
521	Concrete Protective Coating	133	133	0	0	0	Square Feet

General Comments

top of cap, debris accumulation (full length x full width)

Approach 1 Reinforced Concrete Approach Slab

Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
321	Reinforced Concrete Approach Slabs		432	432	0	0	0 Square Feet	
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

General Comments

not visible; covered with epoxy wearing surface

Approach 2		
Reinforced Concrete	Annroach	Slah

Element Number		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
321	Reinforced Co	oncrete Approach Slabs	432	432	0	0	0 Square Feet	
Element Number	Defect Type	Defect Description	1		cs	CS Qty	Maint Qty	

Structure Number: 250007 Inspection Date: 11/05/2018

General Comments

not visible; covered with epoxy wearing surface

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	5437
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	138
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	138
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	138
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	138
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	138
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	138
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	140
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	140
Span 1	Expansion Joint 1	Compression Seal	Compression Joint Seal	36
Span 1	Wearing Surface	Epoxy Wearing Surface	Wearing Surface	5040
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	5437
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	138
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	138
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	138
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	138
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	138
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	138
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	140
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	140
Span 2	Expansion Joint 3	Compression Seal	Compression Joint Seal	36
Span 2	Expansion Joint 2	Compression Seal	Compression Joint Seal	36
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	38
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	46
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	39
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	46
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	39

General Inspection Notes

Bent 1	Cap 1
top of cap, debris a	accumulation (full length x full width)
Span 1	Expansion Joint 1
at north end, joint	covered with epoxy overlay (17-1/2ft)
Span 1	Wearing Surface
epoxy wearing sur	face added since last inspection
Span 2	Wearing Surface
epoxy wearing sur	face added since last inspection

National Bridge and NC Inspection Items

Structure Number: 250007 Inspection Date: 11/05/2018

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	N
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	N
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	F	15	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	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		
Estimated Remaining Life	0 - 100 Years			
Superstructure Paint Code		w		

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	5
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Υ
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 250007 Inspection Date: 11/05/2018

Item Slope Protection Grade F Maint Code 3352 Qty. 15

Details top face of slope protection below bay 5, seperated and settled (8ft x up to 3/4in x 5in)



Span 1 Wearing Surface: new epoxy wearing surface installed since last inspection



Expansion Joint 1: at north end, joint covered with epoxy overlay (17-1/2ft)



Expansion Joint 2: debris accumulation (full length)



Expansion Joint 2: westbound lane at 10ft from rail, joint material separated from deck (1ft x 1/2in x full depth)



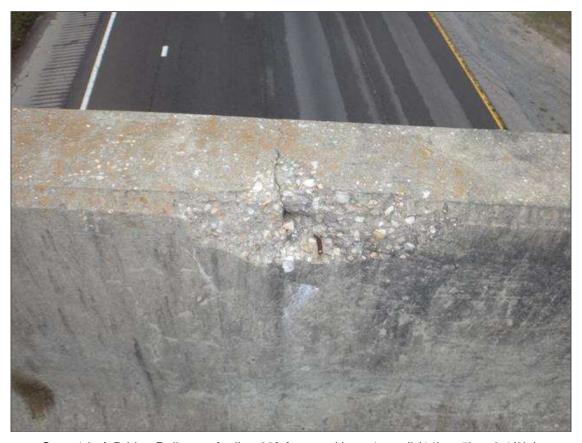
Span 2 Beam 2 Far Bearing: (2) anchor bolt nuts, missing



Span 2 Beam 6 Far Bearing: paint failure with surface rust



Expansion Joint 3: eastbound lane at 5ft from rail, (4) longitudinal cracks in header (up to 11in x up to 1/8in)



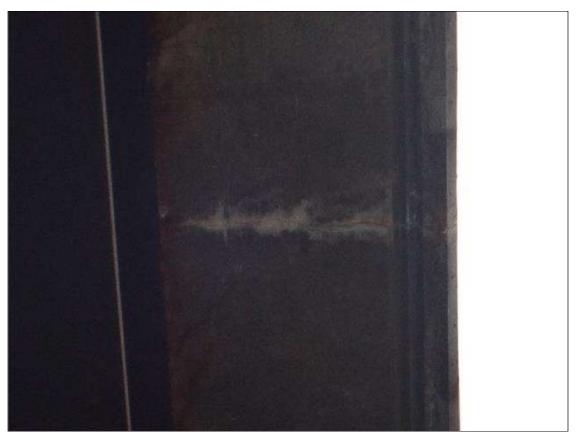
Span 1 Left Bridge Rail: top of rail at 60ft from end bent 1, spall (14in x 5in x 2-1/2in)



top face of slope protection below bay 5, seperated and settled (8ft x up to 3/4in x 5in) (photo 1 of 2)



top face of slope protection below bay 5, seperated and settled (8ft x up to 3/4in x 5in) (photo 2 of 2)



Span 1 Deck: south overhang, transverse cracks (full width x hairline) with efflorescence scattered throughout



Bent 1 Cap: top of cap, debris accumulation (full length x full width)



west approach looking east



northwest guardrail attachment



northwest guardrail



southwest guardrail attachment



southwest guardrail



south bridge rail



north bridge rail



end bent 1 joint (partialy covered with epoxy)



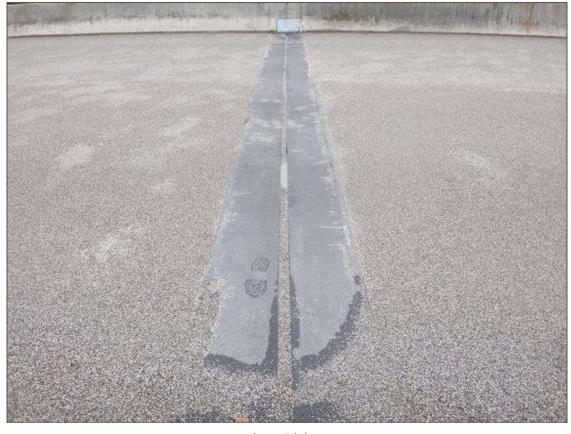
epoxy wearing surface



looking south from deck



looking north from deck



bent 1 joint



northeast guardrail attachment



northeast guardrail



southeast guardrail attachment



southeast guardrail



end bent 2 joint (partialy covered with epoxy)



east approach looking west



span 2 overhead sign attachment to rail



northeast wingwall



southeast wingwall



deck drain



southwest wingwall



end bent 1 and slope protection



end bearing assembly



northwest wingwall



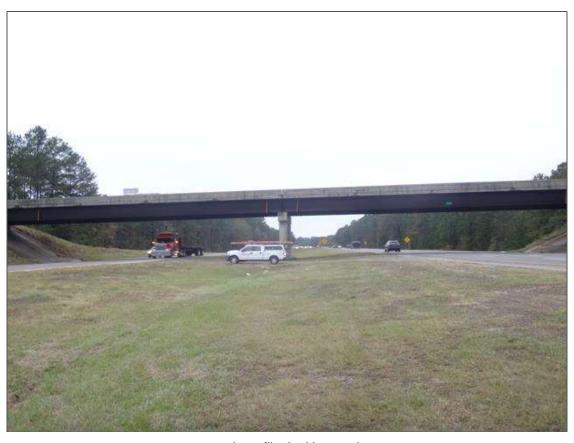
intermediate diaphragm



underside of deck



looking south through (span 1)



south profile, looking north



beams over bent 1



bent 1

Structure: 250007 County: CUMBERLAND Date: 11/05/2018 Structure Photos



end diaphragm



end bent 2 and slope protection

Structure: 250007 County: CUMBERLAND Date: 11/05/2018 Structure Photos



looking north through span 2



north profile, looking south

Structure: 250007 County: CUMBERLAND Date: 11/05/2018 Structure Photos



ladder on bent

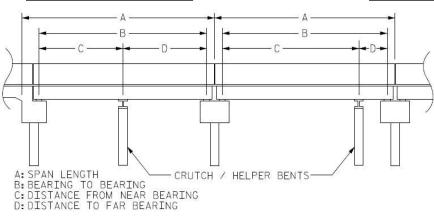


interior bearing assembly

Structure Data Worksheet

Span Profile

County: **CUMBERLAN** Structure Number: 250007 D



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	140.000	137.917			
2	140.000	137.917			

NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 06/04/2019

IDENTIFICATION —			
(1) STATE NAME -NORTH CAROLINA BRIDGE	250007	SUFFICIENCY RATING =	98.27
(8) STRUCTURE NUMBER(FEDERAL) 000	0000000510007	STATUS = Not Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31022430		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2		CODE
(3) COUNTY CODE 51 (4) PLACE CODE	32640	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - 195		(104)HIGHWAY SYSTEM Is not on NHS	C
(7) FACILITY CARRIED SR2243		(26) FUNCTIONAL CLASS - Local	19
(9) LOCATION 0.1MI.W. OF JCT.SR2242		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	C
(11)MILEPOINT	395	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 34° 55′ 16.71" (17)LONG 78° 56′ 4	6.62"	(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHA	ARE	(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	C
		(20) TOLL On Free Road	3
STRUCTURE TYPE AND MATERIAL		(31) MAINTAIN - State Highway Agency	01
(43) STRUCTURE TYPE MAIN: Steel		(22) OWNER - State Highway Agency	01
TYPE - Stringer Mutlibeam or Girder	CODE 302	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :		· ,	
TYPE -	CODE 000	CONDITION	CODE
(45) NUMBER OF SPANS IN MAIN UNIT	2	(58) DECK	7
(46) NUMBER OF APPROACH SPANS	2	(59) SUPERSTRUCTURE	7
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	7
(108)WEARING SURFACE / PROTECTIVE SYSTEM:		(61) CHANNEL & CHANNEL PROTECTION	N
(A) TYPE OF WEARING SURFACE - Concrete	CODE 1	(62) CULVERTS	N
(B) TYPE OF MEMBRANE - None	CODE 0		0005
(C) TYPE OF DECK PROTECTION - None	CODE 0	LOAD RATING AND POSTING —	
(5)		(31) DESIGN LOAD HS 15	3
AGE AND SERVICE		(63) OPERATING RATING METHOD - Load Factor	1
(27) YEAR BUILT	1980	(64) OPERATING RATING - HS-55	99
(106)YEAR RECONSTRUCTED	.000	(65) INVENTORY RATING METHOD - Load Factor	1
(42) TYPE OF SERVICE : ON - Highway		(66) INVENTORY RATING - HS-39	70
UNDER - Highway	CODE 11	(70) BRIDGE POSTING - No Posting Required	5
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	6	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	Δ
(29) AVERAGE DAILY TRAFFIC	2400	DESCRIPTION - Open, No Restriction APPRAISAL	CODE
(30) YEAR OF ADT 2014 (109) TRUCK ADT PCT	7%	(67) STRUCTURAL EVALUATION	7 CODE
(19) BYPASS OR DETOUR LENGTH	4 MI	(68) DECK GEOMETRY	5
GEOMETRIC DATA	7 1011	(69) UNDERCLEARANCES, VERTI & HORIZ	6
(48) LENGTH OF MAXIMUM SPAN	137 FT	(71) WATERWAY ADEQUACY	N
(49) STRUCTURE LENGTH	280 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT	0 FT	(36) TRAFFIC SAFETY FEATURES	1111
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	36 FT	(113)SCOUR CRITICAL BRIDGES	N
			11
(52) DECK WIDTH OUT TO OUT	38.833 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	34 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 6° (35) STRUCTURE FLARED	•	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	36 FT	(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Highway	16.667 FT	(114)FUTURE ADT 4800 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Highway	19 FT		
(56) MIN LAT UNDERCLEAR LT REF -	41.5 FT	(4) 11077771011717	1/05/2018
———NAVIGATION DATA ———		(00) 051 5 155	., 55, 2010
(38) NAVIGATION CONTROL - Not Applicable	CODE N	(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE A) FRACTURE CRIT DETAIL - NO A)	
(111)PIER PROTECTION -	CODE	•	
	0	B) UNDERWATER INSP - NO B)	
(39) NAVIGATION VERTICAL CLEARANCE			
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT	C) OTHER SPECIAL INSP NO C) SCOUR	

tructure No: 250007	County:	CUMBERLAN	Run Date:
		D	

ſ				ertical		~			L.			Traffic	ance		See Not	e 1					Route
	Span Number	Feature Intersected	Inventory Route	Minimum Maximum Ve Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily	Total Horizontal Clearanc	Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway	Direction of Traffic	Highway System of Ro
		6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
1		l95S	11000950	17	39.50	1	10095		11	3	17500	2015	99.9	Н	16.67	21.25	42.75	9	1	1	1
2	2	195N	11000950	17.08	39.50	1	10095		11	3	17500	2015	96.5	Н	16.67	19	41.5	9	1	1	1

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 06/04/2019

CITY:

2

UNDER

6

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH:

CUMBERLAND 6 2 250007 280 FEET

ROUTE CARRIED : FEATURE INTERSECTED :

SR2243 195

LOCATED: BRIDGE NAME: 0.1MI.W. OF JCT.SR2242

* HOPE MILLS

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:

19 NFA NFA 2400 2014 LT 41 RT 41

BUILT: BY: PROJ: FED.AID PROJ: DESIGN LOAD:

1980 DOH 8.1347405 I-95-2 HS 15

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:

TAN 84 ON

NAVIGATION: HT. CRN. TO BED: WATER DEPTH: VC 0 FT HC 0 FT 0 FT 0 FT

SUPERSTRUCTURE: RC FLOOR ON PLATE GIRDERS; APPROACH SLABS

SUBSTRUCTURE : EBTS:RC CAP/H-PILES;IBT:RCP&B/PILE FTGS

SPANS: 2@140'

BEAMS OR GIRDERS: 6 LINES 60" PLATE GIRDERS @ 6'10 CENTERS

FLOOR: ENCROACHMENT: DECK (OUT TO OUT):

8RC/NO AWS 38.833 FT

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

36 FT 36 FT LT 0 FT RT 0 FT

VERT.CL.OVER: 999.9 FT

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-39 HS-55 int.gdrA SV TTST DATE

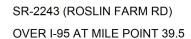
SYSTEM: GREEN LINE ROUTE:

Secondary S.R. Route Y

UNDER ROUTES AND CLEARANCES

			learances	Horizontal Clearances				
Span	Route Description	MMVC	MVC	Total	Left	Right		
1	I95S	17	16.6670	99.90	42.75	21.25		
2	195N	17.0830	16.6670	96.50	41.50	19		

Note: All measurements are in feet.



Roadway	22.5ft Wide	2 Paved Lanes	Looking East
Left Shoulder	7.5ft Wide	6.5ft Paved	1ft Unpaved
Right Shoulder	7.5ft Wide	4.5ft Paved	3ft Unpaved
Left Guardrail	7.5ft from road		
Right Guardrail	7.5ft from road		

MEASURMENTS TAKEN 30FT FROM END BENT 1

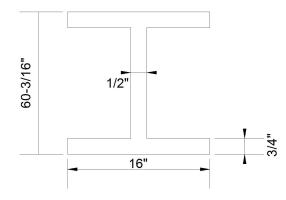
Title		Description						
APPROACH ROADWAY		DATA WORKSHEET						
Bridge No: 250007	Drawn By: SANYAM GURME		Date:11/05/2018	File Name: S0234001043				

Deck Width/Out to Out	38.833ft	Betwee	en Rails			36ft	
Clear Roadway	36ft	Wearin	Wearing Surface				
Median Width		Mediar	Height				
Curb Height	Left		Right				
Sidewalk Width	Left		Right				
Clear Roadway (Rail to Median))	Left		Right			
Guardrail Width		Left	1.4167ft	Right	1.41	67ft	
Top of Rail to Deck/Wearing Su	rface	Left	2.667ft	Right	2.667ft		
Bridge Rail		Left	Type 4 Right		Тур	e 4	

Measurements for Span #	1	SPAN 2 SIMILAR	
Deck Thickness	0.667ft	Left Overhang	2.333ft
Top of Rail to Bottom of Beam	8.583ft	Right Overhang	2.333ft

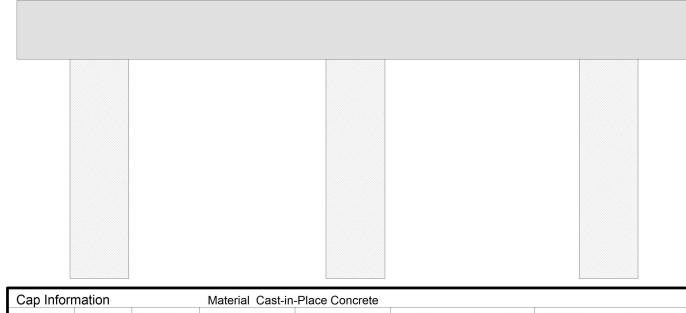
Beam Number	Beam Type	Spacing	Comments
1	Steel Buildup Beam	6.833ft	
2	Steel Buildup Beam	6.833ft	
3	Steel Buildup Beam	6.833ft	
4	Steel Buildup Beam	6.833ft	
5	Steel Buildup Beam	6.833ft	
6	Steel Buildup Beam		

Note: Epoxy Wearing Surface added since 2016 inspection



*REVISED BY: SANYAM GURME 11/05/2018

Title		Description						
SUPERSTRUCTURE		6 Lines of Steel Plate Beams						
Bridge No: 250007	Drawn By: CLS		Date: 02/05/2007	File Name:S0234001044				



Cap Information Material Cast-in-Place Concrete														
Lengt	h	Width	Height	Left Over	hang	Right Overh	ang	Left Be	eam to Er	nd of Cap.	Right Beam to End of Cap.			
38.000	ft.	3.500 ft.	3.333 ft.	4.667	ft.	4.500 ft		2.0	000 ft.		1.583 ft.			
Subcar	p Inf	ormation		Material										
Lengt	h	Width	Height	Left Over	hang	Right Overh	nang	Left Pi	le to Splid	ce.				
Sill Info	orma	ation		Material										
Lengt	h	Width	Height											
Pile#	Ма	iterial	Spacing	Width/Dia.	Height	Length	Orie	entation	Driven?	Replacem	nent?	Removed?	Collar?	
1	Со	ncrete	14.50 ft.	3.333 ft.			Ver	tical	No	No		No	No	
2	Со	ncrete	14.333 ft.	3.333 ft.			Ver	tical	No	No		No	No	
3	Со	ncrete		3.333 ft.			Ver	tical	No	No		No	No	

VERIFIED BY: SANYAM GURME 11/05/2018

Bent/Abutment #: 1 Similar Bents:

Title Description

SUBSTRUCTURE BENT 1

Bridge No: 250007 Drawn By: RLK Date: 1/26/2009 File Name: \$0098000707

SR 2243 (ROSLIN FARM ROAD)

Span 1

I-95 SOUTH BOUND LANES MP 39.5

MAN

18.25 FT 3 F

37.75 FT

5 FT 36 FT

LOOKING SOUTH

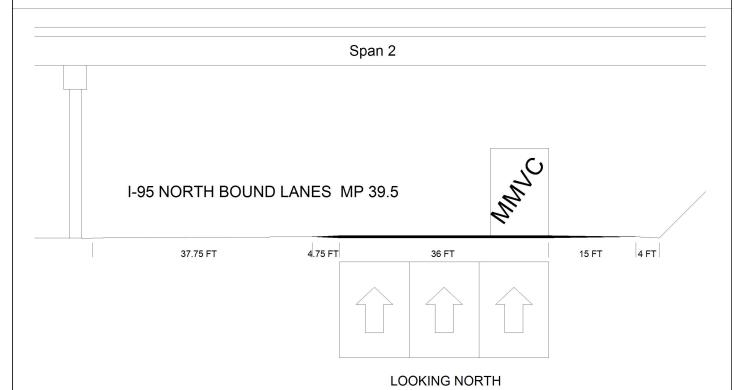
Roadway 1		Direction of Traffic	I-95 S
Distance to Left Rail		Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	42.75FT
Distance to Right Toe of Slope	21.25FT	Distance to Right Bent	
MMVC	17.1 Ft at Beam 1, 10 FT from RIGHT EDGE OF WHITE LINE		
MVC	16.667 Ft at Beam 1, 0 FT from YELLOW LEFT LINE		

NOTE: RIGHT PAVED SHOULDER INCLUDES 6.25FT OF MERGING LANE

 Title
 Description

 SPAN 1 CLEARANCE
 Looking South

 Bridge No: 250007
 Drawn By: SANYAM GURME
 Date:11/05/2018
 File Name:S0234001045



Roadway 1		Direction of Traffic	I-95 N
Distance to Left Rail		Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	41.5FT
Distance to Right Toe of Slope	19FT	Distance to Right Bent	
MMVC	17.083 Ft at Beam 1, 10 FT from RIGHT EDGE OF WHITE LINE		
MVC	16.667 Ft at Beam 1, 0 FT from YELLOW LEFT LINE		

Title		Descri	ption	
SPAN 2 CLEARANCE NBL I		NBL I-	-95	
Bridge No: 250007	Drawn By: SANYAM GURME		Date:11/05/2018	File Name: \$0234001046

Bridge Inspecti	on Field Sketo	ch
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Title	Description	
Bridge No: 250007 Drawn By:	Date:	File Name: \$0098001315

	Bridge Inspection	on F	ield Sketc	h
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TICE		חפפטוו	ouon	
Bridge No: 250007	Drawn By:		Date:	File Name: S0098001316