NC DEPARTMENT OF TRANSPORTATION ATTENTION: sketches revised, clearances revised **DIVISION OF HIGHWAYS** STRUCTURE MANAGEMENT UNIT **Structure Safety Report Routine Element Inspection - Contract** SAP STRUCTURE NO: 0120134 STRUCTURE NUMBER: 110134 FHWA STRUCTURE NO: 00000000230134 **INSPECTION DATE:** 10/25/2023 DIVISION: 13 COUNTY: BURKE FREQUENCY: 24 MONTHS FACILITY CARRIED: SR1922 MILE POST: LOCATION: 0.5 MI.S.JCT.SR1924 FEATURE INTERSECTED: 1-40 LATITUDE: 35° 43' 2.22" LONGITUDE: 81° 40' 21.47" SUPERSTRUCTURE: RC DECK ON PPC GIRDERS (CONTINUOUS); SIP FORMS; APPROACH SLABS SUBSTRUCTURE: E.BTS: RC CAP ON STL. PILES; INT.BTS; RC CAP ON RC COLS. / CONC. FTGS / STEEL PILES SPANS: 2 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION GRADES: (Inspector/NBI Coding) DECK 6/6 SUPERSTRUCTURE 8/8 SUBSTRUCTURE 7/7 CULVERT N/N POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: none



Sign noticed issued for	b	N Re	umber equired	l
NO	WEIGHT LIMIT		0	
NO	DELINEATORS		0	
NO	NARROW BRIDGE	_	0	
NO	ONE LANE BRIDGE	_	0	_
NO	LOW CLEARANCE	_	0	_



MATCHES PLANS

south approach looking north

INSPECTED BY Mike Mills

ASSISTED BY Isaiah Chapman

NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

01/12/2024

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1) STATUSENAVE INGENTION PORTING MURICIPAL STRUCTURE ADDRESS FOR COLLEGATION DESTRUCT 101 (5) NUCLEAR ADDRESS (PC ATION DESTRUCT 103 (6) NUCLEAR ADDRESS (PC ATION DESTRUCT 103 (7) FALUEL INTERCENTED 104 (7) FALUEL INTERCENTED 104 (7) FALUEL INTERCENTED 104 (7) FALUEL INTERCENTED 103 (7) FALUEL INTERCENTE INTERCENTE 103 (7) FALUEL INTERCENTE INTERCENT BARGED 103 (7) REALTING INTERCENTE INTERCENT BARGED 103 (7) REALTING INTERCENTE INTERCENT BARGED 103 (7) REALTING INTERVENTER INTERCENTE BARGED 103 (7) REALTING INTERVENTER INTERVENTER 103 (7) REALTING INTERVENTER INTERVENTER 103 (8) RODRESS FILL COLLER INTERVENTER 103 (9) RODRESS FILL COLLER INTERVENTER 103 (9) RODRESS FILL COLLER INTERVENTER 103 (9) RODRESS FILL COLLER INTERVENTER 103 (10) RUCE INTERCENTER INTERVENTER	IDENTIFICATION			
B) STRUCTURE INJURGER (PEDERAL) 023114 STRUE - CLASSIFICATION CODE (1) SINCHORN KOUTE (KONUNDER) (K) STRUET 13 STRUET (K) STRUET CODE CLASSIFICATION CODE (2) STACE TEREMAL 23 (F) ALLEY CARLING TERMINT DISTRUET 13 Intel Nils BRIDGE SYSTEM Invanis BRIDGE SYSTEM	(1) STATE NAME NORTH CAROLINA BRIDGE	110134	SUFFICIENCY RATING	100.0
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(30) TEAR OF ADT 2010 (100) INDURATION 0.0 (19) BYPASS OR DETOUR LENGTH 0.0 (68) DECK GEOMETRY (48) LENGTH OF MAXIMUM SPAN 104.0 (71) WATERWAY ADEQUACY (49) STRUCTURE LENGTH 210.0 (72) APPROACH ROADWAY ALIGNMENT (50) DCUB OR SIDEWALK: LEFT 8.9 RIGHT 0.0 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 65.2 (36) TRAFFIC SAFETY FEATURES (52) DECK WIDTH OUT TO OUT 76.9 (113) SCOUR CRITICAL BRIDGES (33) BRIDGE MEDIAN CODE 6 (75) TYPE OF WORK CODE (34) SKEW 7 (35) STRUCTURE FLARED 1111 (76) LENGTH OF STRUCTURE IMPROVEMENT (94) BRIDGE IMPROVEMENT COST (35) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 (95) ROADWAY IMPROVEMENT COST (94) BRIDGE IMPROVEMENT COST (94) BRIDGE IMPROVEMENT COST (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 19.5 (95) ROADWAY IMPROVEMENT COST ESTIMATE (96) INAL PROJECT COST (56) MIN LAT UNDERCLEARANCE LT: 11.4 (114) FUTURE ADT 21,000 YEAR OF FUTURE ADT 204 (38) NAVIGATION CONTROL - CODE 7 (90) INSPECTION DATE 10/23 (91) FREQUENCY 204	(20) YEAR OF ADT 2018 (109) TRUCK ADT PCT	6		CODE
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(51) BRIDGE ROADWAY WIDTH, CURB TO CURB (36) TRAFFIC SAFETT FEATURES (52) DECK WIDTH OUT TO OUT 76.9 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (30) (33) BRIDGE MEDIAN CODE (34) SKEW 7 (35) STRUCTURE FLARED (111) 10) INVENTORY ROUTE MIN VERT CLEAR 999.9 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 999.9 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 999.9 (55) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 (56) MIN LAT UNDERCLEARS REFERENCE H (56) MIN LAT UNDERCLEARANCE RT: REFERENCE H (38) NAVIGATION CONTROL - CODE (111) PIER PROTECTION CODE (39) NAVIGATION VERTICAL CLEARANCE CODE (111) PIER PROTECTION (39) CFI DATE (111) PIER PROTECTION (30) AVIGATION VERTICAL CLEARANCE (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR (00) (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR (00) (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR<	(50) CURB OR SIDEWALK: LEFT 8.9 RIGHT	0.0		
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(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 0.0 (64) DINDEE IMPROVEMENT COST (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 (95) ROADWAY IMPROVEMENT COST (54) MIN VERT UNDERCLEAR: REFERENCE H 19.5 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 29.5 (56) MIN LAT UNDERCLEARANCE LT: 11.4 (97) YEAR OF IMPROVEMENT COST ESTIMATE (114) FUTURE ADT 21,000 YEAR OF FUTURE ADT 204 (38) NAVIGATION CONTROL - CODE 7 (90) INSPECTION DATE 10/23 (91) FREQUENCY 2 (39) NAVIGATION VERTICAL CLEARANCE 0.0 A) FRACTURE CRIT DETAIL A) (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0 B) UNDERWATER INSP B) (40) NAVIGATION HORIZONTAL CLEARANCE 0.0 C) OTHER SPECIAL INSP C)	(10) INVENTORY ROUTE MIN VERT CLEAR	999.9		
(53) MIN VERT CLEAR OVER BRIDGE ROWY 999.9 (53) ROADWAT IMPROVEMENT COST (54) MIN VERT UNDERCLEAR: REFERENCE H 19.5 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 29.5 (56) MIN LAT UNDERCLEARANCE LT: 11.4 (96) TOTAL PROJECT COST (38) NAVIGATION DATA INSPECTION YEAR OF FUTURE ADT 20.4 (38) NAVIGATION CONTROL - CODE 7 (90) INSPECTION DATE 10/23 (91) FREQUENCY 2 (111) PIER PROTECTION CODE (92) CRITICAL FEATURE INSPECTION (93) CFI DATE (39) NAVIGATION VERTICAL CLEARANCE 0.0 A) FRACTURE CRIT DETAIL A) (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0 B) UNDERWATER INSP B) (40) NAVIGATION HORIZONTAL CLEARANCE 0.0 C) OTHER SPECIAL INSP C)	(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	0.0		
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		0.0	C) OTHER SPECIAL INSP C)	
		0.0	SCOUR	

2 I 40 W	1 I 40 E		Span Number
		7	Facility Carried
11000400	11000400	5	Inventory Route
21.5	19.3	10	Maximum Minimum Vertical Clearance
104.3	104.3	11	Milepoint
1	1	12	Base Highway
10040	10040	13	LRS Inventory Route
11	11	26	Functional Classification
2	2	28	Number of Lanes
25000	25000	29	Average Daily Traffic
2019	2019	30	Year of Average Daily Traffic
67.0	68.3	47	Total Horizontal Clearance
н	н	54A	Reference Feature
19.4	17.9	54	Minimum Vertical Underclearance
31.0	32.0	55	Rigth Lateral
11.4	11.0	56	Left Lateral Underclearance
6	6	69	Underclearance &
		100	STRAHNET Highway
1	1	102	Direction of Traffic
		104	National Highway System
		110	National Truck Network

Note: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69.

Superstructure Build Details

Skew 97.647

Span Length <u>103.000</u>

Span Number <u>1</u>

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
11	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	11	Each	Galvanized Protective System	11
1	Reinforced Concrete Deck	Reinforced Concrete Deck	7923	Square Feet		
2	Concrete and Metal Railing	Other Bridge Railing	206	Feet		
11	Elastomeric Bearing Pad	Elastomeric Bearing	11	Each		
11	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	1122	Feet		
Span Nu	mber 2 Spa	n Length 107.000		Sk	ew 97.647	

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
11	Elastomeric Bearing Pad	Elastomeric Bearing	11	Each		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	8231	Square Feet		
11	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	11	Each	Galvanized Protective System	11
2	Concrete and Metal Railing	Other Bridge Railing	214	Feet		
11	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	1166	Feet		

Structure Element Scoring

Structure Number: 110134

Inspection Date <u>10/25/202</u> <u>3</u>

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	16,154	15,250	69	835	0
109		Prestressed Concrete Open Girder/Beam	Beam	2,288	2,284	4	0	0
205		Reinforced Concrete Column	Piles and Columns	4	4	0	0	0
215		Reinforced Concrete Abutment	Abutments	212	199	13	0	0
225		Steel Pile	Piles and Columns	31	31	0	0	0
234		Reinforced Concrete Pier Cap	Caps	245	238	7	0	0
310		Elastomeric Bearing	Bearing Device	44	44	0	0	0
515	310	Steel Protective Coating	Bearing Device	22	22	0	0	0
321		Reinforced Concrete Approach Slabs	Approaches	1,846	1,800	24	22	0
333		Other Bridge Railing	Bridge Rail	420	373	36	11	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 110134

Inspection Date: 10/25/2023

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	964 Square Feet
3353	Reinforced Concrete Approach Slabs	Cracking (RC and Other)	46 Square Feet
3318	Other Bridge Railing	Cracking (RC and Other)	11 Feet

Element Structure Maintenance Quantities

Structure Number: 1	<u>10134</u>				Ir	nspection D	0ate <u>10/25/</u>	<u>2023</u>
Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3306	Maintenance Concrete Superstructure Components	0	2288	0.000	0.000	4.000	2284.000
Bearing Device	3334	Bridge Bearing	0	22	0.000	0.000	0.000	22.000
Bearing Device	3334	Bridge Bearing	0	22	0.000	0.000	0.000	22.000
Bearing Device	3342	Clean and Paint Steel	0	22	0.000	0.000	0.000	22.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	11	420	0.000	11.000	36.000	373.000
Deck	3326	Maintenance of Concrete Deck	964	16154	0.000	835.000	69.000	15250.000
Abutments	3350	Maintenance of Concrete Wings and Wall	0	212	0.000	0.000	13.000	199.000
Caps	3348	Maintenance of Concrete Substructure	0	245	0.000	0.000	7.000	238.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	4	0.000	0.000	0.000	4.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	31	0.000	0.000	0.000	31.000
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	46	1846	0.000	22.000	24.000	1800.000

Element Condition and Maintenance Data

Structure I	Number: <u>110134</u>					Ins	spection D	ate: <u>10/25/2023</u>
Spa	n 1	Deck						
Reir	nforced Concrete	Deck						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	7,923	7,635	33	255	0 S	quare Feet
Elemen Number	t r Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty	
√ 12	Cracking (RC and Other)	multiple transverse cracks up to 1/16 top of deck, southbound lanes, near	δ inch wide, in bent 1.		3	255	255	Square Feet
√ 12	Cracking (RC and Other)	throughout center mountable median transverse cracks [up to full width x	n, multiple up to 1/16 inch]		3		24	Square Feet
✓ 12	Cracking (RC and Other)	3 - longitudinal cracks up to 1/32 inc feet long, extending from end bent 1 northbound lanes.	h wide x up to 4 joint, in		2	9	9	Square Feet
<mark>√</mark> 12	Cracking (RC and Other)	6 - longitudinal cracks up to 1/32 inc feet long, extending from end bent 1 bound lanes.	h wide x up to 4 joint, in south		2	24	24	Square Feet
√ 12	Cracking (RC and Other)	(2023 moved to left rail) 8 - up to full cracks up to 1/16 inch wide in sidew	width transverse valk.		1			Square Feet

General Comments

Beam 1

Prestressed Concrete Girder

Eler Nur	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestre	ssed Concrete Open Girder/Beam	102	100	2	0	0 Feet
Elemen Numbe	t Defect Type	Defect Descripti	on		CS	CS Qty	Maint Qty
√ 109	Efflorescence/Rust Staining	bent 1 closure pour, at seams, efflores	scence		2		Feet
√ 109	Efflorescence/Rust Staining	near bent 1, top flange, right face, efflo feet)	prescence (2		2	2	Feet
-	General Comments						

Span 1

Span 1

Beam 2

Prestressed Concrete Girder

Ele: Nui	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestre	ssed Concrete Open Girder/Beam	102	100	2	0	0 Feet	
Elemer Numbe	nt Defect Type	Defect Description	on		CS	CS Qty	Maint Qty	
v 109	09 Efflorescence/Rust near bent 1, top flange, left face, efflore Staining feet)		escence (2		2	2	Feet	
	General Comments							

CS4

Qty

0 Feet

Feet

CS3

Qty

0

CS2

Qty

9

Span 1

Concrete	and	Metal	Railing	
Concrete	anu	Metal	Naming	

Elem Num	ent ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other E	Bridge Railing	103	91	6	6	0 F	eet
Element Number	Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty	
✓ 333	Cracking (RC and Other)	sidewalk at random, transverse crac inch x 9 feet)	ks (up to 1/16		3	6	6	Feet
✓ 333	Cracking (RC and Other)	up to full height x 1/64 inch vertical c rail extending down face	cracks in top of		2	6		Feet

General Comments

Span 1

Right Bridge Rail

Concrete and Metal Railing									
Element Number	Element Name	Total Qty	CS1 Qty						
333	Other Bridge Railing	103	94						

Element
NumberDefect TypeDefect DescriptionCSCS QtyMaint
Qty333Cracking (RC and
Other)up to full height x 1/64 inch vertical cracks in top of
rail extending down face29

General Comments

Span 2

Deck

Reinforced Concrete Deck

Elen Num 12	ement umber Element Name Reinforced Concrete Deck		Total Qty 8,231	CS1 Qty 7,615	CS2 Qty 36	CS3 Qty 580	CS4 Qty 0 S	quare Feet
Element Number	t Defect Type	Defect Description	on		CS	CS Qty	Maint Qty	
<mark>√</mark> 12	Cracking (RC and Other)	5 - full width transverse cracks up to 1/ in north bound lanes, near bent 1.	16 inch wide,		3	180	180	Square Feet
<mark>√</mark> 12	Cracking (RC and Other)	multiple full width transverse cracks up wide, near bent 1, in south bound lanes	to 1/16 inch s.		3	400	400	Square Feet
<mark>√</mark> 12	Cracking (RC and Other)	throughout center mountable median, r transverse cracks [up to full width x up	nultiple to 1/16 inch]		3		36	Square Feet
√ 12	Cracking (RC and Other)	3 - longitudinal cracks up to 1/32 inch v feet long, in south bound lanes, at end	vide x up to 4 bent 2.		2	12	12	Square Feet
√ 12	Cracking (RC and Other)	6 - longitudinal cracks up to 1/32 inch v feet long, in north bound lanes, at end	vide x up to 4 bent 2.		2	24	24	Square Feet
<mark>√</mark> 12	Cracking (RC and Other)	(2023 moved to left rail) 5 - full width tra cracks up to 1/32 inch wide, in top of si	ansverse dewalk.		1			Square Feet

General Comments

Span 2

Left Bridge Rail

Concrete and Metal Railing

Elem Num 333	nent Iber Other B	Element Name ridge Railing	Total Qty 107	CS1 Qty 92	CS2 Qty 10	CS3 Qty 5	CS4 Qty 0 Feet
Element Number	Defect Type	Defect Descrip	otion		cs	CS Qty	Maint Qty
✓ 333	Cracking (RC and Other)	sidewalk at random, transverse cracl inch x 9 feet)	ks (up to 1/16		3	5	5 Feet

✓ 333

10 Feet

2

Cracking (RC and Other) General Comments

Span 2		Right Br	idge Rail					
Concrete a	nd Metal Ra	iling						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Brid	lge Railing	107	96	11	0	0 F	eet
Element Number De	fect Type	Defect D	escription		CS	CS Qty	Maint Qty	
✓ 333 Cracking Other)	g (RC and	up to full height x 1/64 inch ver rail extending down face	tical cracks in top of		2	11		Feet
General (Comments							
End Bent 1		Abutmer	nt					
Reinforced	Concrete A	butment						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforce	d Concrete Abutment	106	99	7	0	0 F	eet
Element Number De	fect Type	Defect D	escription		CS	CS Qty	Maint Qty	
✓ 215 Effloresc Staining	cence/Rust	at multiple beams, at bottom fla (hairline x 4 inch) with effloresc	ange, diagonal crack cence		2	6		Feet
✓ 215 Efflorese Staining	cence/Rust	bay 6 closure pour, diagonal cr with efflorescence	rack (hairline x 1 foot)		2	1		Feet
General (Comments							
End Bent 1		Cap 1						
Reinforced	Concrete P	ier Cap						

Elen Nun	nent 1ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	Reinforced Concrete Pier Cap 84		78	6	0	0 Feet	
Elemen Number	t Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
✓ 234	Cracking (RC and Other)	below bay 6, vertical crack (1/64	inch x full height)		2	1	Feet	
✓ 234	Efflorescence/Rust Staining	below beam 10, at construction j efflorescence (2 feet)	oint with abutment,		2	2	Feet	
✓ 234	Efflorescence/Rust Staining	below beam 8, at construction jo efflorescence (2 feet)	int with abutment,		2	3	Feet	
-	General Comments							

End Bent 2

Abutment

Reinforced Concrete Abutment

Elem Num	lent ber	Element Name			CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinford	ced Concrete Abutment	106	100	6	0	0 Feet	
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	
√ 215	Cracking (RC and Other)	at bay 6, at construction joint, vertical cracheight x up to 0.012 inch	ck, full		2	1	Feet	

🖌 215

at multiple beams, at bottom flange, diagonal crack (hairline x 4 inch) with efflorescence

Feet

5

2

Staining General Comments

Efflorescence/Rust

End Bent 2

Cap 1

Reinforced Concrete Pier Cap

Elen Num	nent Iber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinford	ced Concrete Pier Cap	84	83	1	0	0	Feet
Element Number	Defect Type	Defect	Description		CS	CS Qty	Maint Qty	
<mark>√</mark> 234	Cracking (RC and Other)	vertical crack up to 1/32 inch below bay 6.	wide, in front face,		2	1	-	Feet
√ 234	Efflorescence/Rust Staining	(2023 moved to abutment) he with efflorescence, below gird girder 8 and girder 9 similar	orizontal hairline crack der 10, girder 6 and		1			Feet

General Comments

Approach 1

Slab

Reinforced Concrete Approach Slab

Elem Num 321	nent Iber Reinfo	Element Name Reinforced Concrete Approach Slabs		CS1 Qty 894	CS2 Qty 24	CS3 Qty 5	CS4 Qty 0 \$	Square Feet
Element Number	Defect Type	Defect Descrip	otion		cs	CS Qty	Maint Qty	
✔ 321	Cracking (RC and Other)	2 diagonal x 1/16 inch cracks in far ri approach slab, 40 inches long and 1	ight corner of 6 inches long		3	5	5	Square Feet
✓ 321	Cracking (RC and Other)	2 longitudinal cracks up to full length inch wide, in left northbound lane	x up to 1/32		2	24	24	Square Feet

General Comments

Approach 2

Slab

Reinforced Concrete Approach Slab

Eler Nur	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	_	
321	Reinfor	Reinforced Concrete Approach Slabs		906	0	17	0 S	Square Feet	
Elemen Numbe	t r Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty		
✓ 321	Cracking (RC and Other)	2 diagonal x 1/16 inch cracks in near approach slab, 58 inches long and 2	right corner of 0 inches long		3	5	5	Square Feet	
✓ 321	Cracking (RC and Other)	full length longitudinal crack up to 1/ south bound lanes, near west should	16 inch wide in Ier.		3	12	12	Square Feet	

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	7923
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 7	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 9	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 10	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Beam 11	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	102
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	103
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	103
Span 1	Far Bearing 1	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 2	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 3	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 4	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 5	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 6	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 7	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 8	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 9	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 10	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing 11	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	8231
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 7	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 9	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 10	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Beam 11	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	106
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	107
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	107
Span 2	Near Bearing 1	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 2	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 3	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 4	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 5	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 6	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 2	Near Bearing 7	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 8	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 9	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 10	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing 11	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	77
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
Bent 1	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	84
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	106
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	84
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	106
Approach1	Slab	Reinforced Concrete Approach Slab	Reinforced Concrete Approach Slabs	923
Approach2	Slab	Reinforced Concrete Approach Slab	Reinforced Concrete Approach Slabs	923

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110134

Inspection Date: 10/25/2023

National Bridge Inventory Items

Item	Grade Scale	Grade	
Item 58: Deck	0 - 9 , N	6	Note:
Item 59: Superstructure	0 - 9 , N	8	Items
Item 60: Substructure	0 - 9 , N	7	
Item 61: Channel and Channel Protection	0 - 9 , N	N	See co
Item 62: Culvert	0 - 9 , N	N	
Item 71: Waterway Adequacy	0 - 9 , N	N	
Item 72: Approach Roadway Alignment	0 - 9 , N	8	

tems 58,59,60,62 reflect this nspection only.

or overall NBI coding grade, ee cover sheet.

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			
Wingwall	G, F, P, or C		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		
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	4
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

Structu	re Numb	ber: 110134			Inspection Date: 10/25/202	23
	Item	Ladder Used	Grade N	Maint Code	Qty. 0	
	Details	pole camera used				

Date: 10/25/2023

Condition Photos



Span 1 Beam 1: near bent 1, top flange, right face, efflorescence (2 feet)



Span 1 Beam 1: bent 1 closure pour, at seams, efflorescence

County: BURKE

Date: 10/25/2023

Condition Photos



End Bent 1 Cap 1: below beam 8, at construction joint with abutment, efflorescence (2 feet)



End Bent 1 Abutment: bay 6 closure pour, diagonal crack (hairline x 1 foot) with efflorescence

County: BURKE

Date: 10/25/2023

Condition Photos



End Bent 1 Cap 1: below bay 6, vertical crack (1/64 inch x full height)



End Bent 1 Abutment: at multiple beams, at bottom flange, diagonal crack (hairline x 4 inch) with efflorescence

County: BURKE

Date: 10/25/2023

Condition Photos



End Bent 2 Cap 1: vertical crack up to 1/32 inch wide, in front face, below bay 6.



End Bent 2 Abutment: at bay 6, at construction joint, vertical crack, full height x up to 0.012 inch

County: BURKE

Date: 10/25/2023

Condition Photos



Span 1 Left Bridge Rail: up to full height x 1/64 inch vertical cracks in top of rail extending down face



Span 1 Left Bridge Rail: sidewalk at random, transverse cracks (up to 1/16 inch x 9 feet)



Span 2 Left Bridge Rail: sidewalk at random, transverse cracks (up to 1/16 inch x 9 feet)



Span 2 Left Bridge Rail: up to full height x 1/64 inch in top of rail extending down face

Date: 10/25/2023

Condition Photos



Approach 2 : full length longitudinal crack up to 1/16 inch wide in south bound lanes, near west shoulder.



Approach 2 : 2 diagonal x 1/16 inch cracks in near right corner of approach slab, 58 inches long and 20 inches long

County: BURKE

Date: 10/25/2023

Condition Photos



Span 2 Deck: throughout center mountable median, multiple transverse cracks [up to full width x up to 1/16 inch]



Span 2 Deck: multiple full width transverse cracks up to 1/16 inch wide, near bent 1, in south bound lanes.



Span 2 Deck: 5 - full width transverse cracks up to 1/16 inch wide, in north bound lanes, near bent 1.



Span 2 Deck: 3 - longitudinal cracks up to 1/32 inch wide x up to 4 feet long, in south bound lanes, at end bent 2.

County: BURKE

Date: 10/25/2023

Condition Photos



Span 1 Deck: 3 - longitudinal cracks up to 1/32 inch wide x up to 4 feet long, extending from end bent 1 joint, in northbound lanes.



Span 1 Deck: multiple transverse cracks up to 1/16 inch wide, in top of deck, southbound lanes, near bent 1.



Approach 1 : 2 diagonal x 1/16 inch cracks in far right corner of approach slab, 40 inches long and 16 inches long

Structure Data Worksheet



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	103.000	100.104			
2	107.000	104.104			



roadway under span 1, looking east (I-40 eastbound)

Route Number: 110004	400	Route Na	Dute Name: I 40 E Reference Feature: H							
Minimum Vertical Clear	ance 17.	917 feet	Maxim							
Total Horizontal Clearance 68.300 feet Lateral Clearances: Left: 11.000 feet Right 32.000 feet										
Base Highway Network LRS Inventory Route, Sub Route Number 10040										
Milepost: 104.260	Number	of Lanes:	2	ADT: 25000	Year of ADT: 2019	Percentage of Trucks:	16			
✓ National Highway System STRAHNET Highway Designator										
Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic										



roadway under span 2, looking west (I-40 westbound)

Route Number: 11000	400	Route Na	me: I 40 W Reference Feature: H						
Minimum Vertical Clear									
Total Horizontal Clearance 67.000 feet Lateral Clearances: Left: 11.370 feet Right 31.000 feet									
✓ Base Highway Netwo	ork	LRS Inve	entory R	oute, Sub Route Num	ber 10040				
Milepost: 104.260	Number	of Lanes: 2	2	ADT: 25000	Year of ADT: 2019	Percentage of Trucks:	16		
✓ National Highway System									
Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic									

Bridge Inspection Field Sketch

1

	L	eft Lanes	
Roadway	33ft Wide	3 Paved Lanes	South Bound
Right Shoulder	12ft Wide	2ft Paved	10ft Unpaved
Left Shoulder			
Right Guardrail			
Left Guardrail			
Median	4ft Wide	0.5ft High	
	R	ight Lanes	
Roadway	24ft Wide	2 Paved Lanes	North Bound
Left Shoulder			
Right Shoulder	2ft Wide	2ft Paved	
Left Guardrail			
Right Guardrail	2ft from road		
Measurements record	led 30 feet south of end bent	1	
DACH ROADWAY		Description LOOKING NORTH	
e No: 110134	Drawn By: ITChapman	Date: 10/25/2023	Filename: S000918000

Bridge Inspection Field Sketch

Deck Width/Out to Out	76.917ft	Between Rails				74.083ft
Clear Roadway	64.92ft	Wearing	g Surface			
Median Width	4ft	Median	Median Height			
Curb Height			6in	Right		
Sidewalk Width			8.875ft	Right		
Clear Roadway (Rail to Median)	Clear Roadway (Rail to Median)			Right	25.9	92ft**
Guardrail Width	Guardrail Width			Right	17ir	1
Top of Rail to Deck/Wearing Surface			5.083ft	Right	4.54	12ft
Bridge Rail Type			Type 56	Right	Тур	e 56

clear roadway measured at guardrail attachments

Measurements for Span #	1		
Deck Thickness	8.256in	Left Overhang	2.875ft
Top of Rail to Bottom of Beam (Avg)	10ft	Right Overhang	2.958ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Prestressed Concrete Girder	26in	54in	2.875ft	Left Edge of Deck
2	Prestressed Concrete Girder	26in	54in	7.083ft	Beam 1
3	Prestressed Concrete Girder	26in	54in	7.083ft	Beam 2
4	Prestressed Concrete Girder	26in	54in	7.083ft	Beam 3
5	Prestressed Concrete Girder	26in	54in	7.083ft	Beam 4
6	Prestressed Concrete Girder	26in	54in	7.083ft	Beam 5
7	Prestressed Concrete Girder	26in	54in	5ft	Beam 6
8	Prestressed Concrete Girder	26in	54in	7.667ft	Beam 7
9	Prestressed Concrete Girder	26in	54in	7.667ft	Beam 8
10	Prestressed Concrete Girder	26in	54in	7.667ft	Beam 9
11	Prestressed Concrete Girder	26in	54in	7.667ft	Beam 10

*varies from 24ft to 35ft *varies from 25.92ft to 37.167ft

Title			Description				
TYPICAL SECTION			LOOKING NORTH				
Structure No: 110134	Drawn By:	ITChapman		Date:	10/25/2023	Filename:	S000918000535.wes

Bridge Inspection Field Sketch								
Caps # Name Ty	De	Length	Width	Height	Left Beam to	End of Cap	Right Bear	n to End of Cap
1 Cap 1 Reinforced Concrete Pier Cap		76.417ft	51in	72in	2.365ft		3.083ft	
# Name	Туре	Spacin	ng From			Height/Dian	n. Width	Length
1 Pile 1	Reinforced Concrete Colur	mn 8.625f	ft Left B	Left End of Bent		49in	49in	
2 Pile 2	Reinforced Concrete Colur	mn 23.5ft	Pile 1			49in	49in	
3 Pile 3	3 Pile 3 Reinforced Concrete Colu		3ft Pile 2		49in			
4 Pile 4						49in	49in	
	Reinforced Concrete Colur	mn 20.167	7ft Pile 3			49in 49in	49in 49in	
	Reinforced Concrete Colur	mn 20.167	7ft Pile 3	1		49in 49in	49in 49in	
	Reinforced Concrete Colur	nn 20.167	7ft Pile 3	i		49in 49in	49in 49in	
	Reinforced Concrete Colur	nn 20.167	7ft Pile 3			49in 49in	49in 49in	
	Reinforced Concrete Colur	nn 20.167	7ft Pile 3	i		49in 49in	49in 49in	
Title BENT 1	Reinforced Concrete Colur	nn 20.167	7ft Pile 3 Descript LOOK1	ion NG NOR	ГН	49in 49in	49in 49in	

County: BURKE

Date: 10/25/2023

Structure Photos



east profile looking west



end bent 1 and slope protection



Date: 10/25/2023

Structure Photos

Structure: 110134

County: BURKE

southwest wingwall

Date: 10/25/2023

Structure Photos



west profile looking east



roadway under span 1, looking east (I-40 eastbound)

County: BURKE

Date: 10/25/2023

Structure Photos



superstructure underside



bent 1

County: BURKE

Date: 10/25/2023

Structure Photos



intermediate diaphragm



end diaphragm



southeast guardrail and termination



south approach looking north

County: BURKE

Date: 10/25/2023

Structure Photos



southeast guardrail transition



southeast guardrail attachment

Date: 10/25/2023

Structure Photos



right bridge rail



left bridge rail

County: BURKE

Date: 10/25/2023

Structure Photos



end of approach slab 1



bridge deck

Date: 10/25/2023

Structure Photos



south approach looking south



roadway looking east

Date: 10/25/2023

Structure Photos



roadway looking west



bent 1 deck

Date: 10/25/2023

Structure Photos



north approach looking north



end of approach slab 2



northwest guardrail attachment



northwest guardrail transition



north approach looking south



northwest guardrail and termination

County: BURKE

Date: 10/25/2023

Structure Photos



northwest wingwall



typical beams at abutment



northeast wingwall



roadway under span 2, looking west (I-40 westbound)

County: BURKE

Date: 10/25/2023

Structure Photos



end bent 2 and slope protection



interior bearing assembly

County: BURKE

Date: 10/25/2023

Structure Photos



beams over bent