



NC DEPARTMENT OF TRANSPORTATION ATTENTION:
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection

INSPECTION DATE: 04/29/2019

DIVISION: 6 COUNTY: ROBESON STRUCTURE NUMBER: 770158 FREQUENCY: 24 MONTHS

FACILITY CARRIED: I95 SBL MILE POST: 30.7

LOCATION: 0.6 MI.S. OFJCT.NC20

FEATURE INTERSECTED: BIG MARSH SWAMP

LATITUDE: 34° 48' 11.23" LONGITUDE: 78° 59' 23.34"

SUPERSTRUCTURE: RC FLOOR/PPC GIRDERS

SUBSTRUCTURE: E.BTS&INT.BTS:RC CAPS/PPC PILES

SPANS: 3 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

NBI GRADES: DECK 7 SUPERSTRUCTURE 6 SUBSTRUCTURE 7 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: 2 DELINEATORS



LOOKING SOUTH

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

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

INSPECTED BY Ray L. Kisner	SIGNATURE <i>Ray L. Kisner</i>	ASSISTED BY Samuel F. Spillers
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Structure Element Scoring

Structure Number: 770158

Inspection Date 4/29/2019

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	4747	3397	1350	0	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	900	892	8	0	0
215	0	Reinforced Concrete Abutment	Abutments	72	69	3	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	28	16	12	0	0
234	0	Reinforced Concrete Pier Cap	Caps	130	129	1	0	0
301	0	Pourable Joint Seal	Expansion Joints	64	64	0	0	0
316	0	Other Bearings	Bearing Device	36	0	36	0	0
515	316	Steel Protective Coating	Bearing Device	72	0	24	40	8
333	0	Other Bridge Railing	Bridge Rail	304	252	52	0	0
515	333	Steel Protective Coating	Bridge Rail	304	304	0	0	0
510	0	Wearing Surface	Wearing Surfaces	4220	3572	0	648	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 770158

Inspection Date: 04/29/2019

MMS Code	Element Name	Defect Name	Recommended Quantity
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	8 Feet
3348	Prestressed Concrete Pile	Abrasion/Wear (PSC/RC)	12 Each
3348	Prestressed Concrete Pile	Delamination/Spall	1 Each
3348	Reinforced Concrete Pier Cap	Delamination/Spall	1 Feet
3318	Other Bridge Railing	Delamination/Spall	2 Feet
2816	Wearing Surface	Crack (Wearing Surface)	648 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	72 Square Feet

Element Structure Maintenance Quantities

Structure Number: **770158**

Inspection Date **04/29/2019**

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	72	0	0	3	69
Beam	3306	Maintenance Concrete Superstructure Components	8	900	0	0	8	892
Bearing Device	3334	Bridge Bearing	0	36	0	0	36	0
Bearing Device	3342	Clean and Paint Steel	72	72	8	40	24	0
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	2	304	0	0	52	252
Bridge Rail	3342	Clean and Paint Steel	0	304	0	0	0	304
Caps	3348	Maintenance of Concrete Substructure	1	130	0	0	1	129
Deck	3326	Maintenance of Concrete Deck	0	4747	0	0	1350	3397
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	64	0	0	0	64
Piles and Columns	3348	Maintenance of Concrete Substructure	13	28	0	0	12	16
Wearing Surfaces	2816	Asphalt Surface Repair	648	4220	0	648	0	3572

Element Condition and Maintenance Data

Structure Number: 770158

Inspection Date: 04/29/2019

Span 1 Deck Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,586	1,286	300	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	300 SF. OF HAIRLINE MAP CRACKING IN BOTTOM OF DECK	2	300		Square Feet

General Comments

Span 1 Beam 4 Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	50	49	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Delamination/Spall	SURFACE SPALL 4" DIAMETER X 1/2" DEEP IN BOTTOM FLANGE AT 20 FT. FROM END BENT 1 CAP	2	1	1	Feet

General Comments

Span 1 Wearing Surface Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,410	1,186	0	224	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	200 SF. OF ALLIGATOR CRACKING 1/8" WIDE	3	200	200	Square Feet
510	Crack (Wearing Surface)	24 FT. TRANSVERSE CRACK 1/8" WIDE AT END BENT 1	3	24	24	Square Feet

General Comments

Span 1 Left Bridge Rail Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	51	41	10	0	0	Feet
515	Steel Protective Coating	51	51	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Distortion	MULTIPLE GOUGES UP TO 3" X 1" IN RAIL	2	10		Feet

General Comments

Span 1 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST WITH FLAKING , NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST WITH FLAKING , NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: 770158Inspection Date: 04/29/2019

316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST WITH FLAKING , NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments

Span 1 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 2 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,575	1,275	300	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	300 SF. OF HAIRLINE MAP CRACKING IN BOTTOM OF DECK	2	300	Square Feet

General Comments**Span 2 Beam 3****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	48	2	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	2 - 4" DIAMETER X 1/2" DEEP SPALLS WITH EXPOSED PLATE AT HOLD-DOWN POINT IN BOTTOM FLANGE	2	2	2 Feet

General Comments**Span 2 Beam 4****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED PLATE AT HOLD-DOWN POINT IN BOTTOM FLANGE	2	1	1 Feet

General Comments

Span 2 **Beam 5****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED PLATE AT HOLD-DOWN POINT IN BOTTOM FLANGE	2	1	1 Feet

General Comments

Span 2 **Beam 6****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED PLATE AT HOLD-DOWN POINT IN BOTTOM FLANGE	2	1	1 Feet

General Comments

Span 2 **Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,400	1,200	0	200	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	200 SF. OF ALLIGATOR CRACKING 1/8" WIDE	3	200	200 Square Feet

General Comments

Span 2 **Left Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	50	30	20	0	0 Feet
515	Steel Protective Coating	50	50	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Distortion	MULTIPLE GOUGES UP TO 3" X 1" IN RAIL	2	20	Feet

General Comments

Span 2 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: 770158Inspection Date: 04/29/2019

316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments

Span 2 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 3 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,586	836	750	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	750 SF. OF HAIRLINE MAP CRACKING IN BOTTOM OF DECK	2	750	Square Feet

General Comments**Span 3 Beam 1****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED PLATE AT HOLD-DOWN POINT IN BOTTOM FLANGE	2	1	1 Feet

General Comments**Span 3 Beam 5****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	DELAMINATION IN BOTTOM FLANGE 4" DIAMETER AT 20 FT. FROM END BENT 2	2	1	1 Feet

General Comments

Span 3 Wearing Surface**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,410	1,186	0	224	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	200 SF. OF ALLIGATOR CRACKING 1/8" WIDE	3	200	200 Square Feet
510	Crack (Wearing Surface)	24 FT. TRANSVERSE CRACK 1/8" WIDE AT END BENT 2	3	24	24 Square Feet

General Comments**Span 3 Left Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	51	31	20	0	0 Feet
515	Steel Protective Coating	51	51	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Distortion	MULTIPLE GOUGES UP TO 8" X 1" IN RAIL	2	20	Feet

General Comments**Span 3 Right Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	51	49	2	0	0 Feet
515	Steel Protective Coating	51	51	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Delamination/Spall	20" X 3" DELAMINATION IN RAIL 10 FT. FROM END BENT 2	2	2	2 Feet

General Comments**Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments

Span 3 Far Bearing
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 3 Near Bearing
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments

Span 3 Far Bearing
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 3 Near Bearing
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments**Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments**Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: 770158Inspection Date: 04/29/2019

316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments**Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

General Comments

Bent 1 Cap 1**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	28	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	SURFACE SPALL 6" DIAMETER X 1" DEEP ON WEST END	2	1	1 Feet

General Comments**Bent 1 Pile 1****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each
226	Delamination/Spall	4" DIAMETER X 1/2" DEEP SPALL IN NORTH FACE	2		1 Each

General Comments**Bent 1 Pile 2****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments**Bent 1 Pile 3****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments

Bent 1**Pile 4****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments

Bent 1**Pile 5****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments

Bent 1**Pile 6****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments

End Bent 2**Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	36	36	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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General Comments

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

Bent 2**Pile 1****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1	Each
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General Comments**Bent 2 Pile 2****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments**Bent 2 Pile 3****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments**Bent 2 Pile 4****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments**Bent 2 Pile 5****Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments

Bent 2 Pile 6

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
226	Abrasion/Wear (PSC/RC)	1 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE AT WATERLINE	2	1	1 Each

General Comments

End Bent 2 Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	36	33	3	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Cracking (RC and Other)	6 SF. OF HAIRLINE MAP CRACKING AT EAST END	2	3	Feet

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1586
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 3	Expansion Joint	Standard Joint	Pourable Joint Seal	32
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1410
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 1	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	36
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 2	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	36

General Inspection Notes

Bent 2

Cap 1

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

National Bridge and NC Inspection Items

Structure Number: 770158

Inspection Date: 04/29/2019

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	6
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	G	0	3350
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C			
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				

Note: If NC SMU Inspection 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	Y

National Bridge and NC SMU Inspection Item Details

Structure Number: 770158

Inspection Date: 04/29/2019

Item	Other Equipment Used	Grade	Y	Maint Code		Qty.	0
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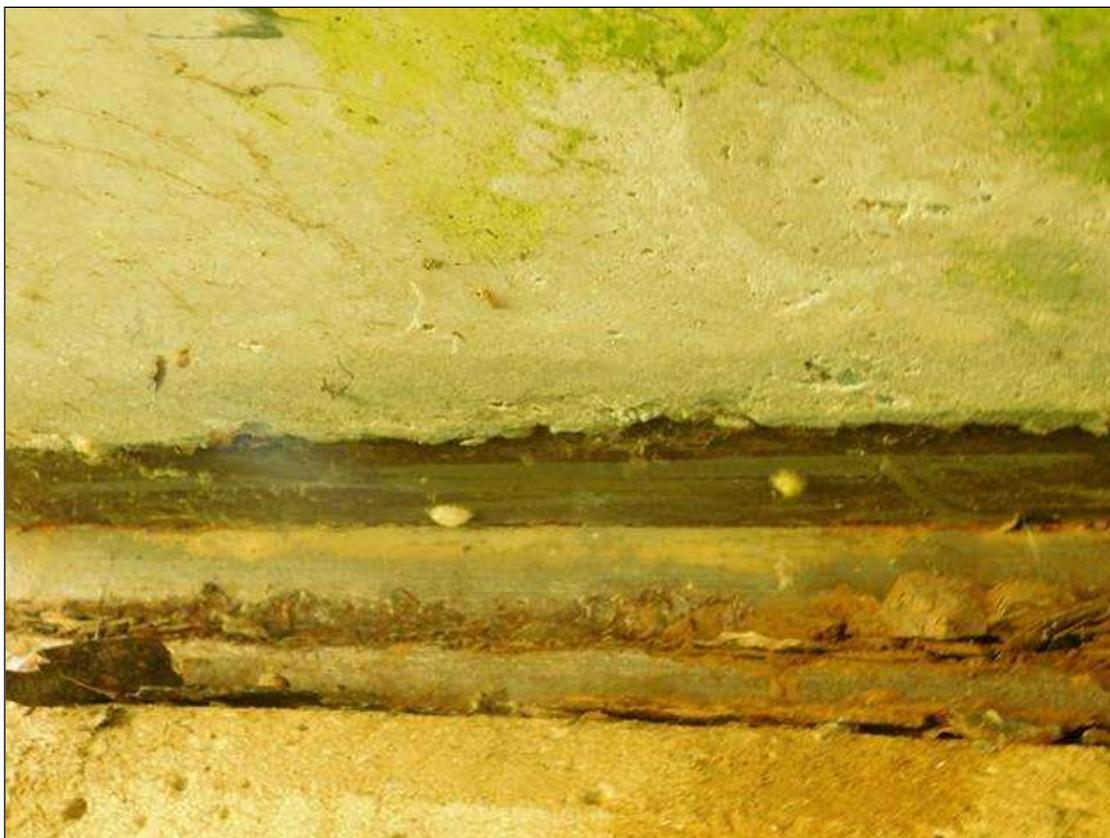
Details BOOTS

Item	General Comments and Misc Items	Grade		Maint Code		Qty.	0
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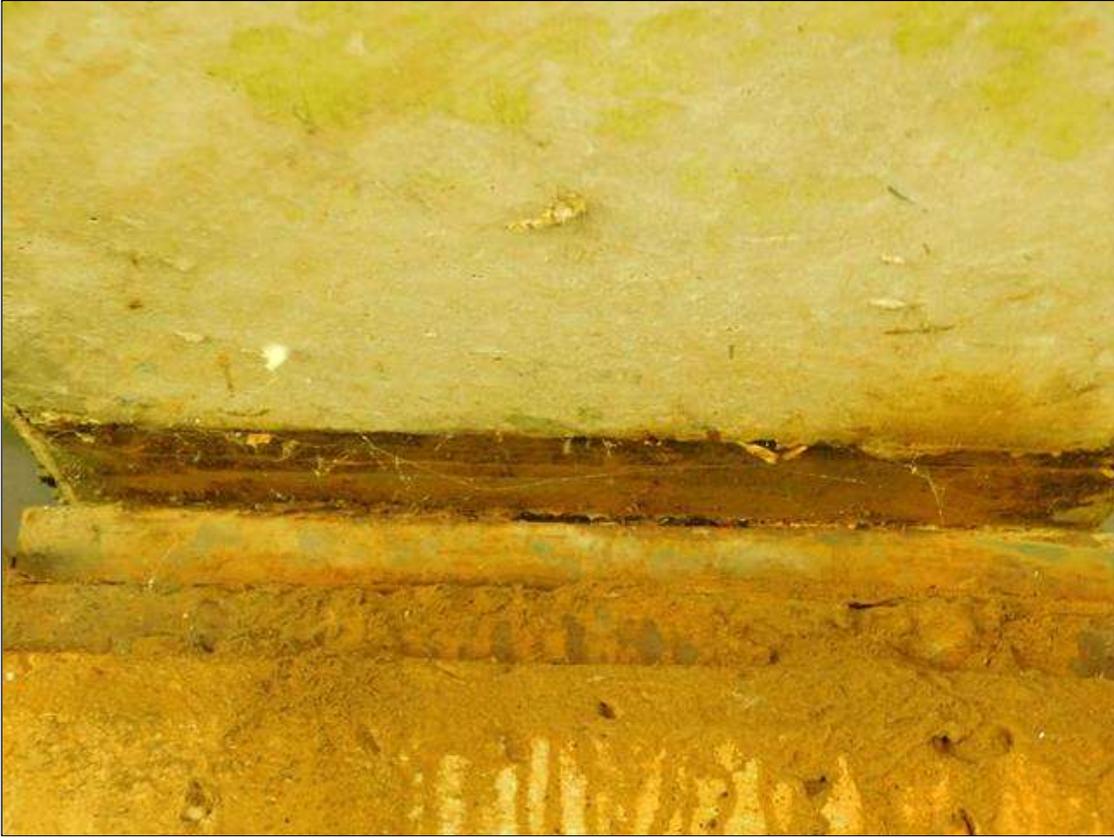
Details DAMAGED APPROACH GUARDRAIL AT NORTHWEST CORNER 20 FT.



Bent 1 Cap 1: SURFACE SPALL 6" DIAMETER X 1" DEEP ON WEST END



Span 1 Beam 1 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 1 Beam 2 Far Bearing: RUST WITH FLAKING , NO SECTION LOSS



Span 1 Beam 3 Far Bearing: RUST WITH FLAKING , NO SECTION LOSS



Span 1 Beam 4: SURFACE SPALL 4" DIAMETER X 1/2" DEEP IN BOTTOM FLANGE AT 20 FT. FROM END BENT 1 CAP



Span 1 Left Bridge Rail: MULTIPLE GOUGES UP TO 3" X 1" IN RAIL



Span 2 Left Bridge Rail: MULTIPLE GOUGES UP TO 3" X 1" IN RAIL



Span 3 Left Bridge Rail: MULTIPLE GOUGES UP TO 8" X 1" IN RAIL



DAMAGED APPROACH GUARDRAIL AT NORTHWEST CORNER 20 FT.



End Bent 2 Abutment/Backwall : 6 SF. OF HAIRLINE MAP CRACKING AT EAST END



Span 3 Beam 1 Near Bearing: SURFACE CORROSION



Span 3 Beam 2 Near Bearing: SURFACE CORROSION



Span 3 Beam 4 Near Bearing: SURFACE CORROSION



Span 3 Beam 5 Near Bearing: SURFACE CORROSION



Span 3 Beam 6 Near Bearing: SURFACE CORROSION



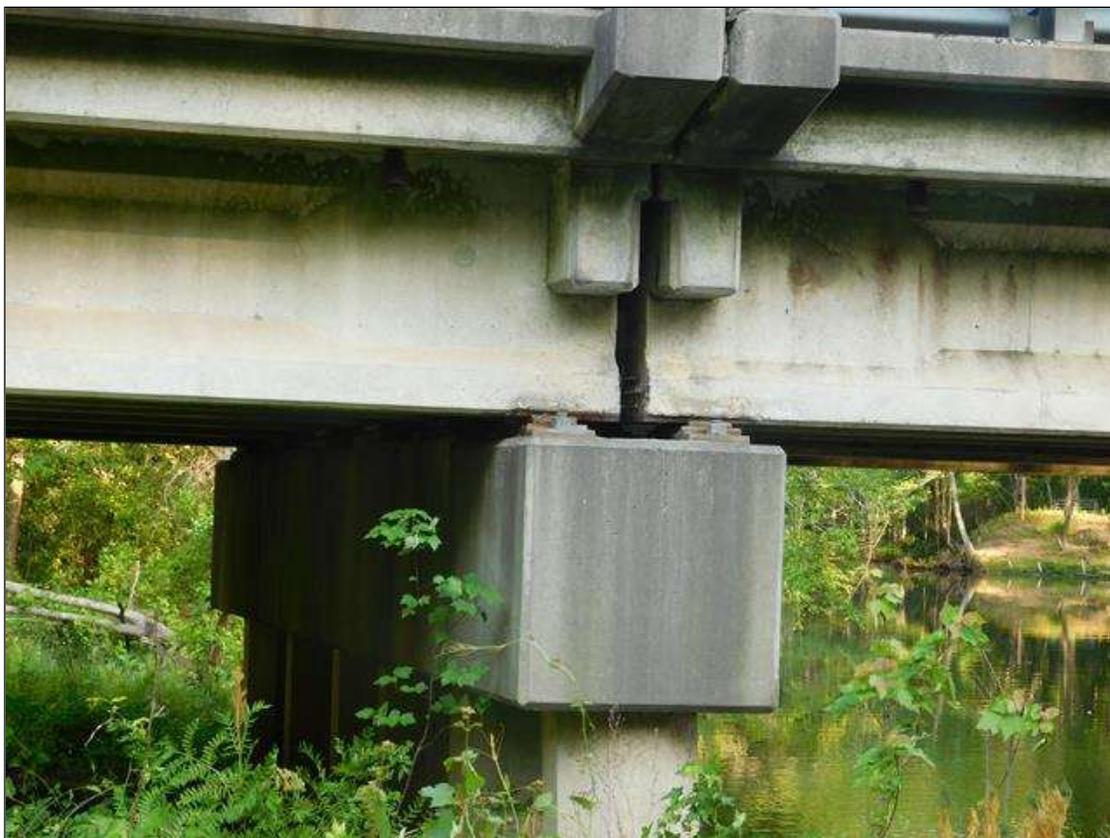
Span 3 Beam 5: DELAMINATION IN BOTTOM FLANGE 4" DIAMETER AT 20 FT. FROM END BENT 2



Span 3 Beam 1: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED PLATE AT HOLD-DOWN POINT IN BOTTOM FLANGE



UPSTREAM WEST



EAST END OF BENT 1 CAP, SIMPLE SPANS



EAST PROFILE



BENT 1



END BENT 1



WEST PROFILE



DOWNSTREAM EAST



BENT 2



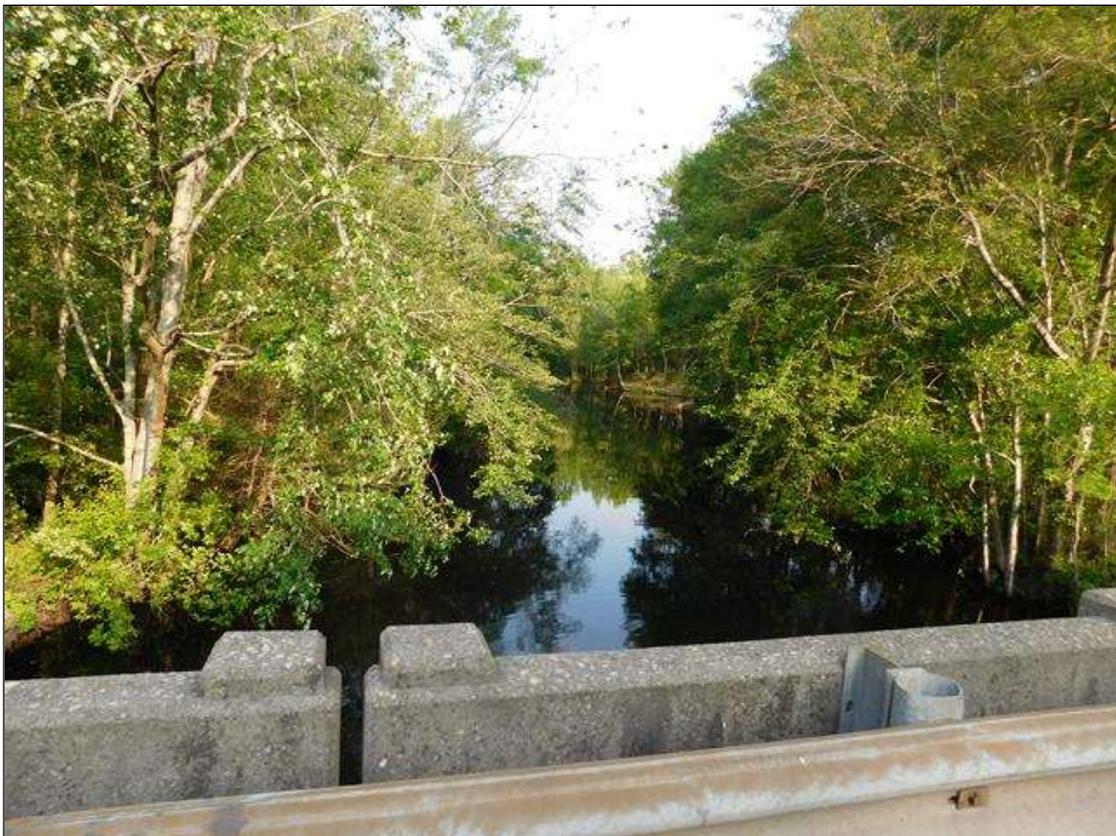
SUPERSTRUCTURE



LOOKING NORTH, SOUTHBOUND LANE



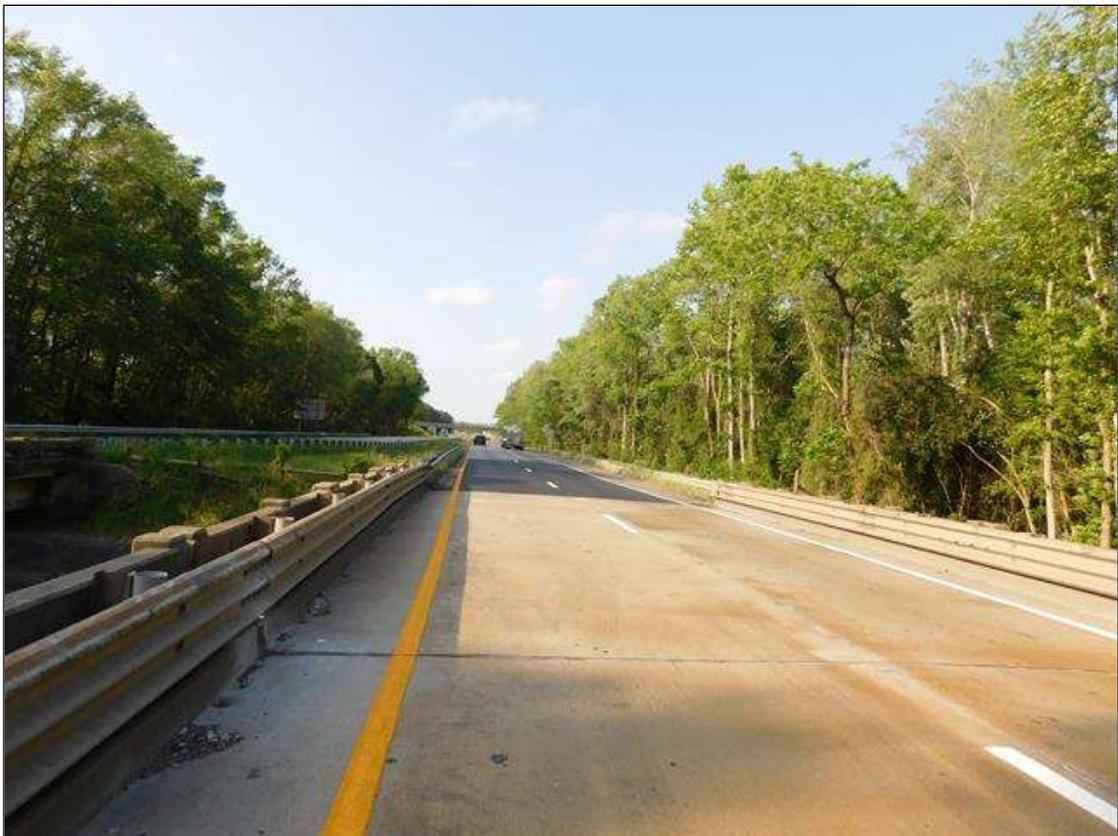
BENT 1 JOINT, SIMILAR AT BENT 2



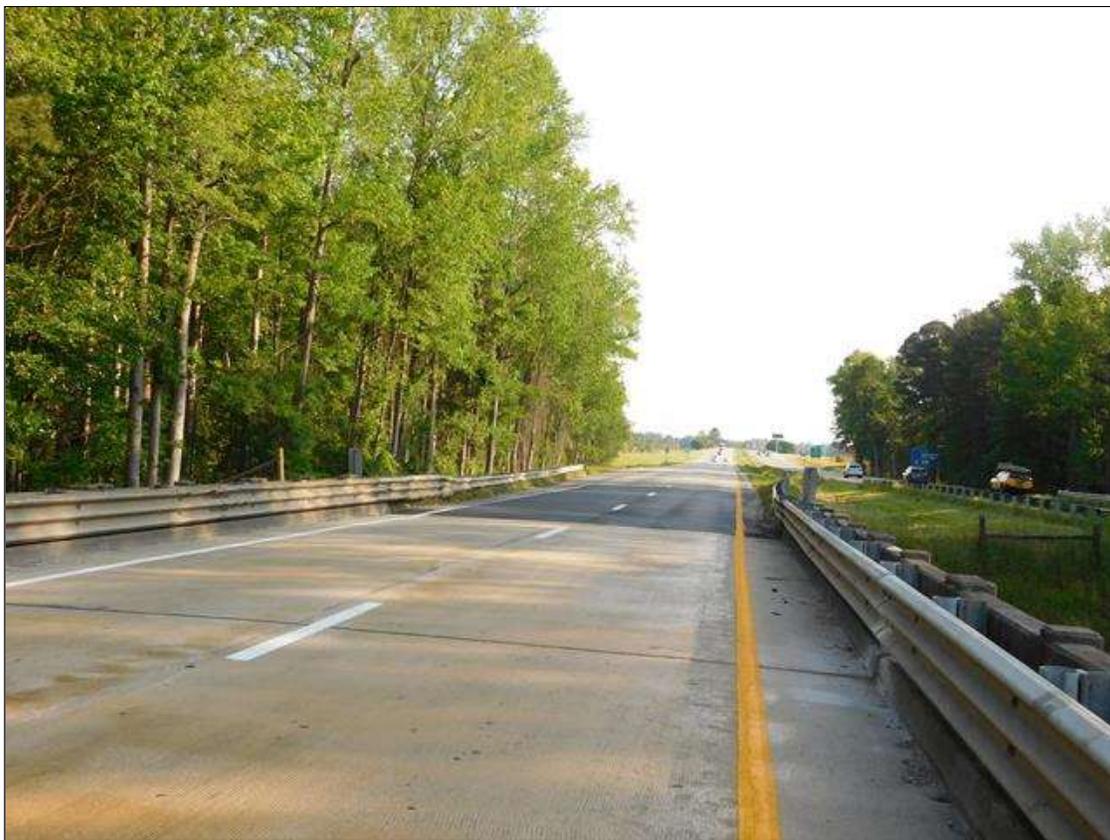
UPSTREAM WEST



DOWNSTREAM EAST



LOOKING SOUTH, OFF BRIDGE



LOOKING NORTH, OFF BRIDGE



LOOKING SOUTH



GUARDRAIL POST SPACING AT MIDPORTION



END BENT 2



GUARDRAIL END TERMINAL

Stream Bed Soundings

(Profile diagram on following sheet)

County **ROBESON**

Structure Number: **770158**

Inspection Date **04/29/2019**

Sounding recorded from: **Top of Bridge Rail**

Highwater Mark Distance **5**

Location of Highwater Mark **ON BEAMS**

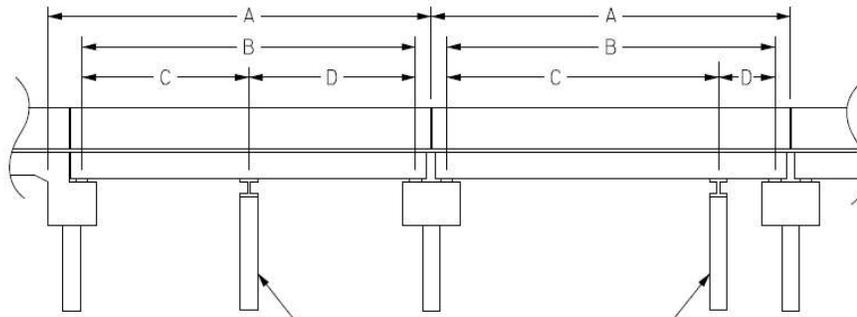
Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	1.800	0.000	TOP OF ABUTMENT 1
1.000	6.300	0.000	TOP OF CAP
3.000	7.200	7.400	END BENT 1 TOP OF SLOPE BERM , FACE OF CAP
9.000	7.400	0.000	
18.000	11.000	0.000	
46.000	13.330	0.000	WSWE (EAST)
50.333	16.667	14.083	BENT 1
75.000	20.167	0.000	
90.000	20.667	0.000	
100.333	20.167	19.417	BENT 2
112.333	13.330	0.000	WSWE
129.000	12.000	0.000	
139.000	7.300	0.000	
147.000	7.200	7.300	TOP OF SLOPE CAP FACE
149.667	6.300	0.000	TOP OF CAP
150.667	1.800	0.000	TOP OF ABUTMENT 2

Structure Data Worksheet

Span Profile

County: **ROBESON**

Structure Number: **770158**



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING
 CRUTCH / HELPER BENTS

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	50.333	47.167			
2	50.000	48.833			
3	50.333	47.167			

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

Run Date: 09/17/2019

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **770158**
 (8) STRUCTURE NUMBER(FEDERAL) 000000001550158
 (5) INVENTORY ROUTE (ON/UNDER) - ON 11000950
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 1
 (3) COUNTY CODE 155 (4) PLACE CODE 0
 (6) FEATURE INTERSECTED - BIG MARSH SWAMP
 (7) FACILITY CARRIED I95 SBL
 (9) LOCATION 0.6 MI.S. OFJCT.NC20
 (11)MILEPOINT 30.7
 (16)LAT 34° 48' 11.23" (17)LONG 78° 59' 23.34"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 76.59
 STATUS = Functionally Obsolete

CLASSIFICATION **CODE**

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM Is on the NHS 1
 (26) FUNCTIONAL CLASS - Arterial - Interstate 01
 (100)STRAHNET HIGHWAY - Interstate STRAHNET Route 1
 (101)PARALLEL STRUCTURE - Left Parallel Structure L
 (102)DIRECTION OF TRAFFIC - 1-way Traffic 1
 (103)TEMPORARY STRUCTURE -
 (110)DESIGNATED NATIONAL NETWORK - On the National Network 1
 (20) TOLL On Free Road 3
 (31) MAINTAIN - State Highway Agency 01
 (22) OWNER - State Highway Agency 01
 (37) HISTORICAL SIGNIFICANCE - Not Eligible 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Prestressed Concrete
 TYPE - Stringer Mutlibeam or Girder CODE 502
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE 000
 (45) NUMBER OF SPANS IN MAIN UNIT 3
 (46) NUMBER OF APPROACH SPANS
 (107)DECK STRUCTURE TYPE - 1 CODE
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - Bituminous CODE 6
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION **CODE**

(58) DECK 7
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 7
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD HS 20 + MOD 6
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-55 99
 (65) INVENTORY RATING METHOD - Load Factor 1
 (66) INVENTORY RATING - HS-33 60
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1959
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Waterway CODE 15
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 0
 (29) AVERAGE DAILY TRAFFIC 25000
 (30) YEAR OF ADT 2017 (109) TRUCK ADT PCT 23%
 (19) BYPASS OR DETOUR LENGTH 1 MI

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES,VERTI & HORIZ N
 (71) WATERWAY ADEQUACY 7
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 1111
 (113)SCOUR CRITICAL BRIDGES 8

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 49 FT
 (49) STRUCTURE LENGTH 151 FT
 (50)CURB OR SIDEWALK: LEFT 0 FT RIGHT 0 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 28 FT
 (52) DECK WIDTH OUT TO OUT 33.5 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 28 FT
 (33) BRIDGE MEDIAN - Open Median CODE 1
 (34) SKEW 0° (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
 (54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 0 FT
 (55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT
 (56) MIN LAT UNDERCLEAR LT REF - 000 FT

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114)FUTURE ADT 50000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 04/29/2019
 (92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - NO B)
 C) OTHER SPECIAL INSP NO C)
 SCOUR

NAVIGATION DATA

(38) NAVIGATION CONTROL - No Navigational Control CODE 0
 (111)PIER PROTECTION - CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0
 (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT
 (40) NAVIGATION HORIZONTAL CLEARANCE 0 FT

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 09/17/2019

COUNTY : ROBESON DIVISION : 6 DISTRICT : 1 STRUCTURE NUMBER : 770158 LENGTH : 151 FEET

ROUTE CARRIED : I95 SBL FEATURE INTERSECTED : BIG MARSH SWAMP

LOCATED : 0.6 MI.S. OFJCT.NC20 BRIDGE NAME : CITY :

FUNC. CLASS : 01 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 25000 2017 RAIL TYPE : LT 333 RT 333

BUILT : 1959 BY : SHC PROJ : 8.13972 FED.AID PROJ : DESIGN LOAD : HS 20 + MOD

REHAB : BY : DBM PROJ : ALIGNMENT : TAN SKEW : 90 LANES : ON 2 UNDER 0

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 18 FT WATER DEPTH : 8 FT

SUPERSTRUCTURE : RC FLOOR/PPC GIRDERS

SUBSTRUCTURE : E.BTS&INT.BTS:RC CAPS/PPC PILES

SPANS : 1@50'4";1@50";1@50'4"

BEAMS OR GIRDERS : 6 LINES 18"X35" PPC GIRDERS @ 5' CENTERS

FLOOR : 7 RC/3"AWS ENCROACHMENT : DECK (OUT TO OUT) : 33.5 FT

CLEAR ROADWAY : 28 FT BETWEEN RAILS : 28 FT SIDEWALK OR CURB : LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-33 OPE.RTG. : HS-55 CONTR.MEMBER : PS Gdr POSTED : SV TTST DATE

SYSTEM : Primary Interstate GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

REMARKS :

Bridge Inspection Field Sketch

I-95 SBL



MEASURED AT 10 FT. NORTH OF STRUCTURE

Roadway	24ft Wide	2 Paved Lanes	Looking South
Left Shoulder	2ft Wide	2ft Paved	
Right Shoulder	2ft Wide	2ft Paved	
Left Guardrail	2ft from road		
Right Guardrail	2ft from road		

MEASUREMENTS UPDATED 4/3/2017 BY MJM
 MEASUREMENTS VERIFIED BY RLK 4/29/19

Title

APPROACH ROADWAY

Description

LOOKING SOUTH

Bridge No: 770158

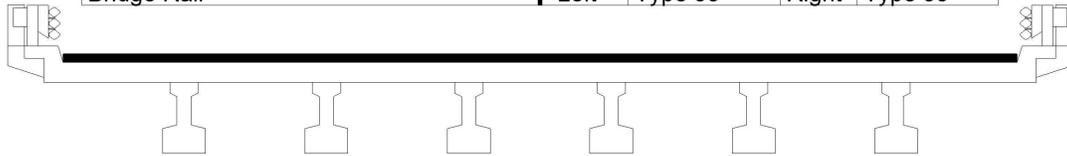
Drawn By: RLK

Date: 04/14/2011

File Name: S0098000571

Bridge Inspection Field Sketch

Deck Width/Out to Out	33.5ft	Between Rails	28ft
Clear Roadway	28ft	Wearing Surface	0.25ft
Median Width		Median Height	
Curb Height		Left	0.583ft
		Right	0.583ft
Sidewalk Width		Left	
		Right	
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	2.75ft
		Right	2.75ft
Top of Rail to Deck/Wearing Surface		Left	2.333ft
		Right	2.333ft
Bridge Rail		Left	Type 33
		Right	Type 33

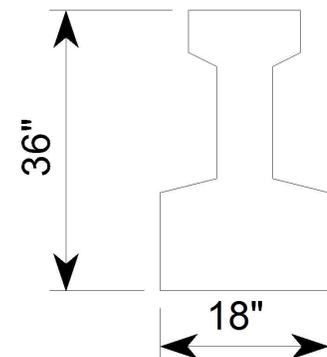


Measurements for Span #	1		
Deck Thickness	0.583	Left Overhang	4.25
Top of Rail to Bottom of Beam	6.083	Right Overhang	4.25

Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	5ft	
2	PPC Girder	5ft	
3	PPC Girder	5ft	
4	PPC Girder	5ft	
5	PPC Girder	5ft	
6	PPC Girder	ft	

MEASUREMENTS VERIFIED 4/4/2017 BY MJM
 MEASUREMENTS VERIFIED BY SFS 4/29/19

SIMILAR GIRDER



Title Superstructure	Description Span 1
Bridge No: 770158	Drawn By: RDW
Date: 12/17/07	File Name: S0098000572

