



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE, DECK AND
SUPERSTRUCTURE GRADED (4) DUE CHANNEL
CONDITIONS EACH SPAN, TEMPORARY SHORING
DUE TO CONCRETE COLLAR AT END BENT 1, PILE 2

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 05/07/2018

DIVISION: 6 COUNTY: HARNETT STRUCTURE NUMBER: 420234 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1210 MILE POST: _____

LOCATION: 0.7 MI. N. JCT. NC27

FEATURE INTERSECTED: BARBECUE SWAMP

LATITUDE: 35° 20' 2.12" LONGITUDE: 79° 4' 21"

SUPERSTRUCTURE: PRESTRESSED CONCRETE CHANNELS

SUBSTRUCTURE: E.BTS&INT.BTS:PPC.CAPS/TIMBER PILES @ 5'9 CTS

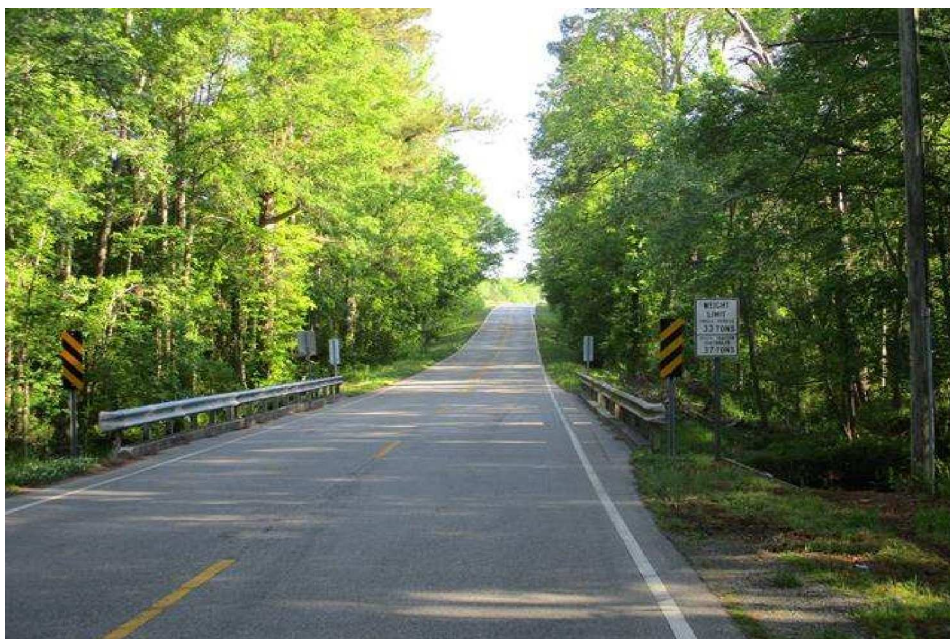
SPANS: 3 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

☐ FRACTURE CRITICAL ☒ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

GRADES: DECK 4 SUPERSTRUCTURE 4 SUBSTRUCTURE 6 CULVERT N

POSTED SV: 33 POSTED TTST: 37

OTHER SIGNS PRESENT: 4 DELINEATORS



SOUTH APPROACH LOOKING NORTH

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

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY
H.W. HICKS, JR.

SIGNATURE

ASSISTED BY M.W. ROBERTSON

Structure Element Scoring

Structure Number: **420234**

Inspection Date **5/7/2018**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
15	0	Prestressed Concrete Top Flange	Beam	1890	1890	0	0	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	750	668	46	33	3
216	0	Timber Abutment	Abutments	64	64	0	0	0
228	0	Timber Pile	Piles and Columns	20	0	20	0	0
233	0	Prestressed Concrete Pier Cap	Caps	104	67	37	0	0
316	0	Other Bearings	Bearing Device	60	60	0	0	0
515	316	Steel Protective Coating	Bearing Device	60	60	0	0	0
330	0	Metal Bridge Railing	Bridge Rail	150	90	60	0	0
515	330	Steel Protective Coating	Bridge Rail	300	180	0	120	0
510	0	Wearing Surface	Wearing Surfaces	1800	1800	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 420234

Inspection Date: 05/07/2018

MMS Code	Element Name	Defect Name	Recommended Quantity
3306	Prestressed Concrete Open Girder/Bear	Exposed Rebar	15 Feet
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	3 Feet
3306	Prestressed Concrete Open Girder/Bear	Cracking (PSC)	17 Feet
3348	Prestressed Concrete Pier Cap	Delamination/Spall	11 Feet
3348	Prestressed Concrete Pier Cap	Cracking (PSC)	1 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	120 Square Feet

Element Structure Maintenance Quantities

Structure Number: **420234**

Inspection Date **05/07/2018**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	0	64	0	0	0	64
Beam	3306	Maintenance Concrete Superstructure Components	35	750	3	33	46	668
Beam	3326	Maintenance of Concrete Deck	0	1890	0	0	0	1890
Bearing Device	3334	Bridge Bearing	0	60	0	0	0	60
Bearing Device	3342	Clean and Paint Steel	0	60	0	0	0	60
Bridge Rail	3322	Maintenance of Steel Bridge Rail	0	150	0	0	60	90
Bridge Rail	3342	Clean and Paint Steel	120	300	0	120	0	180
Caps	3348	Maintenance of Concrete Substructure	12	104	0	0	37	67
Piles and Columns	3344	Maintenance To Timber Substrcutre	0	20	0	0	20	0
Wearing Surfaces	2816	Asphalt Surface Repair	0	1800	0	0	0	1800

Element Condition and Maintenance Data

Structure Number: 420234

Inspection Date: 05/07/2018

Span 1

Right Bridge Rail

Steel Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	25	0	25	0	0	Feet
515	Steel Protective Coating	50	0	0	50	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Corrosion	FRECKLE SURFACE RUST ON RAIL SURFACES.	2	25		Square Feet
515	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH RUST BLEED COMING THRU.	3	50	50	Square Feet

General Comments

Span 1

Slab 4

Prestressed Concrete Channel

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	63	63	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	25	23	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Patched Area	NEW REPAIR PATCH AT: 20" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND RIGHT LEG AT BENT 1	2	2		Feet

General Comments

Span 1

Slab 5

Prestressed Concrete Channel

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	63	63	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	25	17	8	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Patched Area	NEW PATCHED AREA AT: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 1	2	1		Feet
109	Patched Area	NEW PATCHED AREA AT: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR RIGHT LEG LEFT SIDE AT END BENT 1	2	1		Feet
109	Patched Area	NEW PATCHED AREA AT: 5' LONG X 3" HIGH FORMING SPALL ALONG RIGHT LEG - 10' FROM END BENT 1	2	5		Feet
109	Patched Area	NEW REPAIR PATCH AT: 10" LONG X 5" HIGH X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT SIDE RIGHT LEG AT BENT 1	2	1		Feet

General Comments

Span 1**Slab 6****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	63	63	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	25	11	11	0	3 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	SPALL LEFT LEG 37" LONG X 2-1/2" WIDE X 3-1/2" HIGH WITH CABLE EXPOSED WITH 10% SECTION LOSS AT EXPOSED STRANDS. (PRIORITY MAINTENANCE)	4	3	3 Feet
109	Patched Area	NEW PATCHED AREA AT: 8" LONG X 4" HIGH X FULL WIDTH SPALL WITH EXPOSED REBAR LEFT LEG AT END BENT 1	2	1	Feet
109	Patched Area	NEW PATCHED AREA AT: 6" LONG X 2" HIGH X 3/4" DEEP SPALL WITH EXPOSED REBAR LEFT SIDE RIGHT LEG AT BENT 1	2	1	Feet
109	Patched Area	NEW REPAIR PATCH AT: 5' LONG X 3" HIGH FORMING SPALL ALONG LEFT LEG - 6' FROM BENT 1	2	5	Feet
109	Patched Area	NEW REPAIR PATCH AT: 20" LONG X 4" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND RIGHT LEG AT END BENT 1	2	2	Feet
109	Patched Area	NEW REPAIR PATCH AT: 24" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND LEFT LEG - 8' FROM END BENT 1	2	2	Feet

General Comments

Span 1**Slab 7****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	63	63	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	25	16	9	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Patched Area	NEW PATCHED AREA AT: 10" LONG X 5" HIGH X 1/4" DEEP SPALL WITH EXPOSED REBAR RIGHT SIDE LEFT LEG AT BENT 1.	2	1	Feet
109	Patched Area	NEW REPAIR PATCH AT: 36" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND LEFT LEG - 8' FROM END BENT 1	2	3	Feet
109	Patched Area	NEW REPAIR PATCH AT: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 1	2	1	Feet
109	Patched Area	NEW REPAIR PATCH AT: 10" LONG X 5" HIGH X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT SIDE RIGHT LEG AT BENT 1	2	1	Feet
109	Patched Area	NEW REPAIR PATCH AT: 12" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED REBAR RIGHT LEG AT END BENT 1	2	1	Feet
109	Patched Area	NEW REPAIR PATCH AT: 28" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND RIGHT LEG - 12' FROM BENT 1	2	2	Feet

General Comments

Span 1**Slab 9****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	63	63	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	25	20	3	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Exposed Rebar	SPALL 15" LONG X 3-1/2" HIGH X 2-1/2" WIDE WITH EXPOSED CABLE LEFT LEG AT BENT 1 END. (PRIORITY MAINTENANCE)	3	2	2 Feet
109	Patched Area	NEW REPAIR PATCH AT: 10" LONG X 5" HIGH X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT SIDE RIGHT LEG AT BENT 1.	2	1	Feet
109	Patched Area	NEW REPAIR PATCH AT: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 1.	2	1	Feet
109	Patched Area	NEW REPAIR PATCH AT: 8" HIGH X 4" WIDE X 1/2" DEEP SPALL WITH EXPOSED REBAR RIGHT LEG LEFT SIDE AT END BENT 1	2	1	Feet

General Comments

Span 1**Slab 10****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	63	63	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	25	21	4	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Patched Area	NEW PATCHED AREA AT: 8" LONG X 4" HIGH X 1/2" DEEP SPALL WITH EXPOSED REBAR RIGHT SIDE LEFT LEG AT BENT 1	2	1	Feet
109	Patched Area	NEW PATCHED AREA: 4" LONG X 2" HIGH X 1" DEEP SPALL WITH EXPOSED REBAR RIGHT LEG LEFT SIDE AT END BENT 1	2	1	Feet
109	Patched Area	NEW PATCHED AREA: 6" DIAMETER X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 1	2	1	Feet
109	Patched Area	NEW PATCHED AREA: 6" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND RIGHT LEG AT BENT 1	2	1	Feet

General Comments

Span 2**Right Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	25	0	25	0	0 Feet
515	Steel Protective Coating	50	0	0	50	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Corrosion	FRECKLE SURFACE RUST ON RAIL SURFACES.	2	25	Square Feet
515	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH RUST BLEED COMING THRU.	3	50	50 Square Feet

General Comments

Span 2**Slab 3****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	63	63	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	25	23	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Patched Area	NEW PATCHED AREA AT: 3" HIGH X 1" WIDE X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT LEG LEFT SIDE AT BENT 2	2	1		Feet
109	Patched Area	NEW PATCHED AREA AT: 8" LONG X 4" HIGH X 1/2" DEEP SPALL WITH EXPOSED REBAR RIGHT LEG LEFT SIDE AT BENT 2	2	1		Feet

General Comments**Span 2****Slab 4****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	63	63	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	25	24	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Patched Area	NEW PATCHED AREA AT: 6" LONG X 2" HIGH X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT BENT 2	2	1		Feet

General Comments**Span 2****Slab 5****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	63	63	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	25	23	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Exposed Rebar	SPALL 4" LONG X 2-1/2" WIDE X 1/2" DEEP WITH REBAR EXPOSED LEFT LEG AT BENT 2 END. (PRIORITY MAINTENANCE)	3	1	1	Feet
109	Exposed Rebar	SPALL 6" LONG X 3" HIGH X 3/4" DEEP WITH REBAR EXPOSED ON RIGHT LEG AT BENT 2 END. (PRIORITY MAINTENANCE)	3	1		Feet

General Comments

Span 2**Slab 6****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	63	63	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	25	24	0	1	0	Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
109	Exposed Rebar	SPALL 3" LONG X 2" HIGH X 1/2" DEEP WITH REBAR EXPOSED AT RIGHT LEG BENT 2 END. (PRIORITY MAINTENANCE)	3	1	1	Feet	
General Comments							

Span 2**Slab 8****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	63	63	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	25	23	0	2	0	Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
109	Exposed Rebar	SPALL 27" LONG X 2-1/2" WIDE X 4" HIGH WITH 10% SECTION LOSS ALONG EXPOSED CABLE STRANDS ON RIGHT LEG AT BENT 2 END. (PRIORITY MAINTENANCE)	3	2	2	Feet	
General Comments							

Span 3**Right Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	25	15	10	0	0	Feet
515	Steel Protective Coating	50	30	0	20	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
330	Corrosion	SPOT FRECKLE SURFACE RUST ON RAIL SURFACES.	2	10		Square Feet	
515	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH RUST BLEED COMING THRU.	3	20	20	Square Feet	
General Comments							

Span 3**Slab 4****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	63	63	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	25	13	4	8	0	Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
109	Cracking (PSC)	HORIZONTAL CRACK UP TO .125" OPEN ON RIGHT LEG 8' LONG BEGINNING AT BENT 2 END. (PRIORITY MAINTENANCE)	3	8	8	Feet	

Structure Number: **420234**Inspection Date: **05/07/2018**

109	Patched Area	NEW PATCHED AREA AT: 10" HIGH X 6" WIDE X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 2	2	1	Feet
109	Patched Area	REPAIR TO LEFT LEG 3' FROM BENT 2	2	1	Feet
109	Patched Area	REPAIR TO RIGHT LEG 10' FROM END BENT 2	2	1	Feet
109	Patched Area	REPAIR TO RIGHT LEG AT END BENT 2	2	1	Feet

General Comments**Span 3****Slab 5****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	63	63	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	25	24	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Patched Area	NEW PATCHED AREA AT: 3" LONG X 1/2" DEEP CORNER SPALL ALONG LEFT LEG RIGHT SIDE AT BENT 2	2	1	Feet

General Comments**Span 3****Slab 6****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	63	63	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	25	6	1	18	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Cracking (PSC)	HORIZONTAL CRACK UP TO .09" OPEN, RIGHT LEG, BEGINNING 3' FROM BENT 2 END. (PRIORITY MAINTENANCE)	3	9	9 Feet
109	Exposed Rebar	SPALL 46" LONG X 2-1/2" WIDE X 2" HIGH, LEFT LEG, WITH 10% SECTION LOSS AT EXPOSED CABLE 2' FROM END BENT 2 END. (PRIORITY MAINTENANCE)	3	4	4 Feet
109	Exposed Rebar	SPALL 57" LONG X 2-1/2" WIDE X 3" HIGH, LEFT LEG, WITH 10% LOSS OF SECTION ON EXPOSED CABLE STRANDS BEGINNING TO SEPARATE. SPALL BEGINS 3' FROM BENT 2 END. (PRIORITY MAINTENANCE)	3	5	5 Feet
109	Patched Area	REPAIRS IN LEFT AND RIGHT LEGS AT MID-SPAN.	2	1	Feet

General Comments**End Bent 1****Cap 1****Prestressed Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
233	Prestressed Concrete Pier Cap	26	25	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
233	Delamination/Spall	CORNER SPALL 3-1/2" WIDE X 2" HIGH X 3/4" DEEP ON LEFT END.	2	1	1 Feet

General Comments

End Bent 1**Pile 1****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1			Each
General Comments							

End Bent 1**Pile 2****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Decay/Section Loss	RECENT REPAIR WITH CONCRETE ENCASEMENT.	2	1			Each
General Comments							

End Bent 1**Pile 3****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1			Each
General Comments							

End Bent 1**Pile 4****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1			Each
General Comments							

End Bent 1**Pile 5****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1			Each

General Comments**Bent 1 Cap 1****Prestressed Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
233	Prestressed Concrete Pier Cap	26	16	10	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
233	Delamination/Spall	SCATTERED HONEYCOMBING ON EACH FACE.	2	10	10 Feet
General Comments					

Bent 1 Pile 1**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each
General Comments					

Bent 1 Pile 2**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each
General Comments					

Bent 1 Pile 3**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each
General Comments					

Bent 1**Pile 4****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1		Each

General Comments

Bent 1**Pile 5****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	DECAYED 3" WIDE X 14" HIGH X 1-1/2" DEEP ON SOUTH FACE AT GROUND-LINE, BEGINNING 35" BELOW BOTTOM OF CAP.	2	1		Each

General Comments

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
233	Prestressed Concrete Pier Cap	26	1	25	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
233	Cracking (PSC)	SCATTERED HORIZONTAL HAIRLINE CRACKS 6" TO 8" FROM BOTTOM EDGE, FULL LENGTH OF CAP.	2	25		Feet

General Comments

End Bent 2**Pile 1****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1		Each

General Comments

End Bent 2**Pile 2****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each
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General Comments

End Bent 2	Pile 3
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Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1		Each

General Comments

End Bent 2	Pile 4
-------------------	---------------

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1		Each

General Comments

End Bent 2	Pile 5
-------------------	---------------

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1		Each

General Comments

Bent 2	Cap 1
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Prestressed Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
233	Prestressed Concrete Pier Cap	26	25	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
233	Cracking (PSC)	SPALL 6" LONG X 3" WIDE X 1" DEEP ON BOTTOM FACE, SOUTH EDGE BETWEEN PILES 4 AND 5.	2	1	1	Feet

General Comments

Bent 2**Pile 1****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each
General Comments					

Bent 2**Pile 2****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each
General Comments					

Bent 2**Pile 3****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each
General Comments					

Bent 2**Pile 4****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each
General Comments					

Bent 2**Pile 5****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	SCATTERED CHECK/SHAKE CRACKS.	2	1	Each

Structure Number: **420234**

Inspection Date: **05/07/2018**

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Slab 1	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 1	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 2	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 2	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 3	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 3	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 4	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 4	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 5	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 5	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 6	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 6	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 7	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 7	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 8	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 8	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 9	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 9	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Slab 10	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 1	Slab 10	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 1	Left Bridge Rail	Steel Rail	Metal Bridge Railing	25
Span 1	Right Bridge Rail	Steel Rail	Metal Bridge Railing	25
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	600
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Slab 1	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 1	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25

Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Slab 2	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 2	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Slab 3	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 3	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Slab 4	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 4	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Slab 5	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 5	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Slab 6	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 6	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Slab 7	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 7	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Slab 8	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 8	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Slab 9	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 9	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Slab 10	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 2	Slab 10	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 2	Left Bridge Rail	Steel Rail	Metal Bridge Railing	25
Span 2	Right Bridge Rail	Steel Rail	Metal Bridge Railing	25
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	600
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Slab 1	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 1	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Slab 2	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 2	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Slab 3	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 3	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Slab 4	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 4	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Slab 5	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 5	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Slab 6	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 6	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Slab 7	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 7	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Slab 8	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 8	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Slab 9	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 9	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Slab 10	Prestressed Concrete Channel	Prestressed Concrete Top Flange	63
Span 3	Slab 10	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	25
Span 3	Left Bridge Rail	Steel Rail	Metal Bridge Railing	25
Span 3	Right Bridge Rail	Steel Rail	Metal Bridge Railing	25
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	600
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
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	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	26
Bent 1	Pile 1	Timber Pile	Timber Pile	1
Bent 1	Pile 2	Timber Pile	Timber Pile	1
Bent 1	Pile 3	Timber Pile	Timber Pile	1
Bent 1	Pile 4	Timber Pile	Timber Pile	1
Bent 1	Pile 5	Timber Pile	Timber Pile	1

Elements Verified

Location	Name	Component	Element Name	Amount
End Bent 1	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	26
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	32
Bent 2	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	26
Bent 2	Pile 1	Timber Pile	Timber Pile	1
Bent 2	Pile 2	Timber Pile	Timber Pile	1
Bent 2	Pile 3	Timber Pile	Timber Pile	1
Bent 2	Pile 4	Timber Pile	Timber Pile	1
Bent 2	Pile 5	Timber Pile	Timber Pile	1
End Bent 2	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	26
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Pile 3	Timber Pile	Timber Pile	1
End Bent 2	Pile 4	Timber Pile	Timber Pile	1
End Bent 2	Pile 5	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Timber Abutment	Timber Abutment	32

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 420234

Inspection Date: 05/07/2018

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	4
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	6
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	F	1800	3376
Drainage System	G, F, P, or C	F	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
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	F	4	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	6		
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	Y
Inspection Time	Hours	7
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Y
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: 420234

Inspection Date: 05/07/2018

Item	Deck - Item 58	Grade	4	Maint Code		Qty.	0
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Details GRADED 4 DUE TO SPALLS AND DETERIORATION IN PRESTRESSED CONCRETE CHANNELS

Item	Superstructure - Item 59	Grade	4	Maint Code		Qty.	0
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Details GRADED 4 DUE TO SPALLS AND DETERIORATION IN PRESTRESSED CONCRETE CHANNELS

Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
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Details SV 33 TONS TTST 37 TONS

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	1800
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Details DECK DEBRIS ALONG CURB-LINE

Item	Drainage System	Grade	F	Maint Code	3332	Qty.	0
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Details SEE DECK DEBRIS

Item	Drift	Grade	F	Maint Code	3366	Qty.	4
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Details DRIFT AT BENT 2 UPSTREAM END.

Item	General Comments and Misc Items	Grade	P	Maint Code		Qty.	0
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Details EACH CROSS-BRACING MEMBER AT BENT 1 IS DECAYED WITH UP TO 50% SECTION LOSS.



Span 1 Slab 6: SPALL LEFT LEG 37" LONG X 2-1/2" WIDE X 3-1/2" HIGH WITH CABLE EXPOSED WITH 10% SECTION LOSS AT EXPOSED STRANDS. (PRIORITY MAINTENANCE)



Span 1 Slab 6: NEW REPAIR PATCH AT: 24" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND LEFT LEG - 8' FROM END BENT 1



Span 1 Slab 6: NEW PATCHED AREA AT: 6" LONG X 2" HIGH X 3/4" DEEP SPALL WITH EXPOSED REBAR LEFT SIDE RIGHT LEG AT BENT 1



Span 1 Slab 6: NEW REPAIR PATCH AT: 5' LONG X 3" HIGH FORMING SPALL ALONG LEFT LEG - 6' FROM BENT



Span 1 Slab 6: NEW PATCHED AREA AT: 8" LONG X 4" HIGH X FULL WIDTH SPALL WITH EXPOSED REBAR
LEFT LEG AT END BENT 1



Span 1 Slab 6: NEW REPAIR PATCH AT: 20" LONG X 4" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND
RIGHT LEG AT END BENT 1



Span 1 Slab 7: NEW REPAIR PATCH AT: 12" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED REBAR RIGHT LEG AT END BENT 1



Span 1 Slab 7: NEW REPAIR PATCH AT: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 1



Span 1 Slab 7: NEW REPAIR PATCH AT: 28" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND
RIGHT LEG - 12' FROM BENT 1



Span 1 Slab 7: NEW REPAIR PATCH AT: 36" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND
LEFT LEG - 8' FROM END BENT 1



Span 1 Slab 7: NEW REPAIR PATCH AT: 10" LONG X 5" HIGH X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT SIDE RIGHT LEG AT BENT 1



Span 1 Slab 7: NEW PATCHED AREA AT: 10" LONG X 5" HIGH X 1/4" DEEP SPALL WITH EXPOSED REBAR RIGHT SIDE LEFT LEG AT BENT 1.



Span 1 Slab 9: NEW REPAIR PATCH AT: 8" HIGH X 4" WIDE X 1/2" DEEP SPALL WITH EXPOSED REBAR RIGHT LEG LEFT SIDE AT END BENT 1



Span 1 Slab 9: NEW REPAIR PATCH AT: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 1.



Span 1 Slab 9: NEW REPAIR PATCH AT: 10" LONG X 5" HIGH X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT SIDE RIGHT LEG AT BENT 1.



Span 1 Slab 9: SPALL 15" LONG X 3-1/2" HIGH X 2-1/2" WIDE WITH EXPOSED CABLE LEFT LEG AT BENT 1 END.
(PRIORITY MAINTENANCE)



Span 1 Slab 10: NEW PATCHED AREA: 6" DIAMETER X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT LEG
RIGHT SIDE AT END BENT 1



Span 1 Slab 10: NEW PATCHED AREA: 4" LONG X 2" HIGH X 1" DEEP SPALL WITH EXPOSED REBAR RIGHT
LEG LEFT SIDE AT END BENT 1



Span 1 Slab 10: NEW PATCHED AREA: 6" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND RIGHT LEG AT BENT 1



Span 1 Slab 10: NEW PATCHED AREA AT: 8" LONG X 4" HIGH X 1/2" DEEP SPALL WITH EXPOSED REBAR RIGHT SIDE LEFT LEG AT BENT 1



Bent 1 Pile 5: DECAYED 3" WIDE X 14" HIGH X 1-1/2" DEEP ON SOUTH FACE AT GROUND-LINE, BEGINNING 35" BELOW BOTTOM OF CAP.



Bent 1 Cap 1: SCATTERED HONEYCOMBING ON EACH FACE.



EACH CROSS-BRACING MEMBER AT BENT 1 IS DECAYED WITH UP TO 50% SECTION LOSS.



Span 2 Slab 3: NEW PATCHED AREA AT: 3" HIGH X 1" WIDE X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT LEG LEFT SIDE AT BENT 2



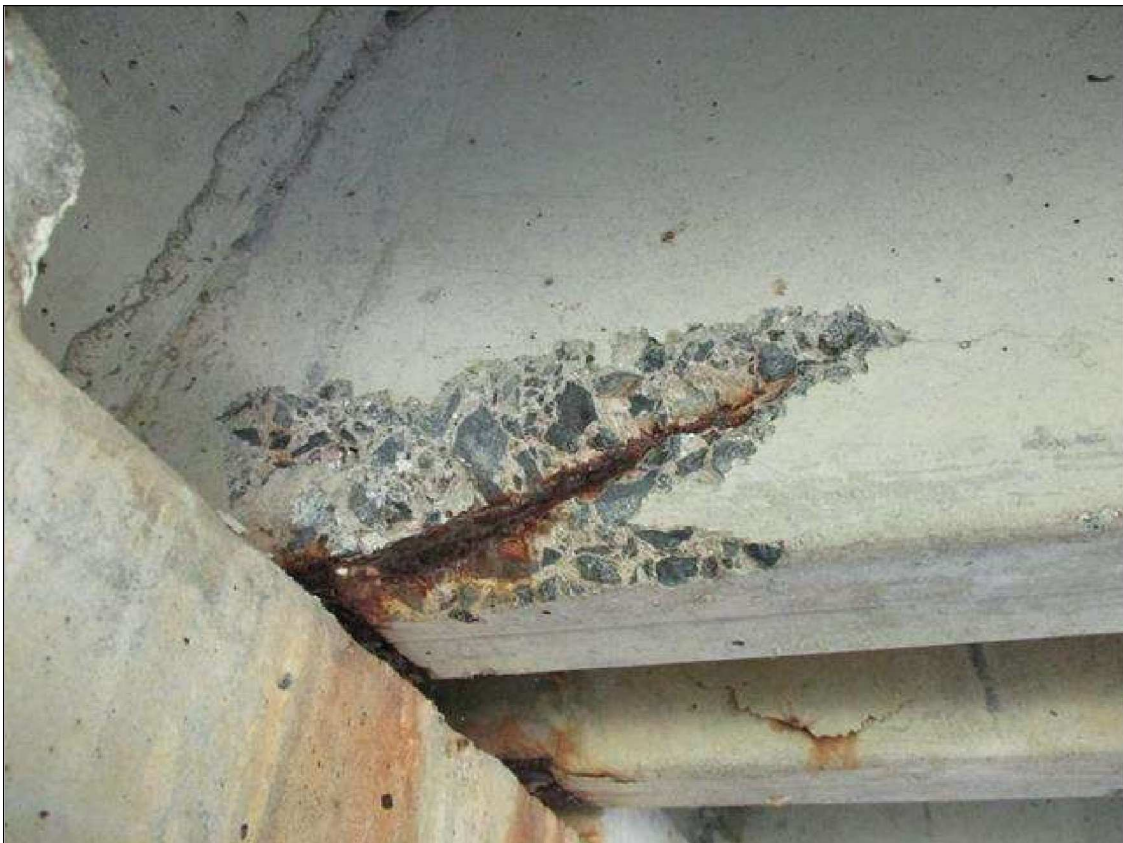
Span 2 Slab 3: NEW PATCHED AREA AT: 8" LONG X 4" HIGH X 1/2" DEEP SPALL WITH EXPOSED REBAR RIGHT LEG LEFT SIDE AT BENT 2



Span 2 Slab 4: NEW PATCHED AREA AT: 6" LONG X 2" HIGH X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT BENT 2



Span 2 Slab 5: SPALL 4" LONG X 2-1/2" WIDE X 1/2" DEEP WITH REBAR EXPOSED LEFT LEG AT BENT 2 END.
(PRIORITY MAINTENANCE)



Span 2 Slab 5: SPALL 6" LONG X 3" HIGH X 3/4" DEEP WITH REBAR EXPOSED ON RIGHT LEG AT BENT 2 END.
(PRIORITY MAINTENANCE)



Span 2 Slab 6: SPALL 3" LONG X 2" HIGH X 1/2" DEEP WITH REBAR EXPOSED AT RIGHT LEG BENT 2 END.
(PRIORITY MAINTENANCE)



Span 2 Slab 8: SPALL 27" LONG X 2-1/2" WIDE X 4" HIGH WITH 10% SECTION LOSS ALONG EXPOSED CABLE STRANDS ON RIGHT LEG AT BENT 2 END.



Bent 2 Cap 1: SPALL 6" LONG X 3" WIDE X 1" DEEP ON BOTTOM FACE, SOUTH EDGE BETWEEN PILES 4 AND 5.



Span 3 Slab 4: HORIZONTAL CRACK UP TO .125" OPEN ON RIGHT LEG 8' LONG BEGINNING AT BENT 2 END.
(PRIORITY MAINTENANCE)



Span 3 Slab 4: REPAIR TO RIGHT LEG AT END BENT 2



Span 3 Slab 4: NEW PATCHED AREA AT: 10" HIGH X 6" WIDE X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 2



Span 3 Slab 4: REPAIR TO RIGHT LEG 10' FROM END BENT 2



Span 3 Slab 4: REPAIR TO LEFT LEG 3' FROM BENT 2



Span 3 Slab 5: NEW PATCHED AREA AT: 3" LONG X 1/2" DEEP CORNER SPALL ALONG LEFT LEG RIGHT SIDE AT BENT 2



Span 3 Slab 6: HORIZONTAL CRACK UP TO .09" OPEN, RIGHT LEG, BEGINNING 3' FROM BENT 2 END.
(PRIORITY MAINTENANCE)



Span 3 Slab 6: SPALL 57" LONG X 2-1/2" WIDE X 3" HIGH, LEFT LEG, WITH 10% LOSS OF SECTION ON EXPOSED CABLE STRANDS BEGINNING TO SEPARATE. SPALL BEGINS 3' FROM BENT 2 END.



Span 3 Slab 6: REPAIRS IN LEFT AND RIGHT LEGS AT MID-SPAN



Span 3 Slab 6: SPALL 46" LONG X 2-1/2" WIDE X 2" HIGH, LEFT LEG, WITH 10% SECTION LOSS AT EXPOSED CABLE 2' FROM END BENT 2 END.



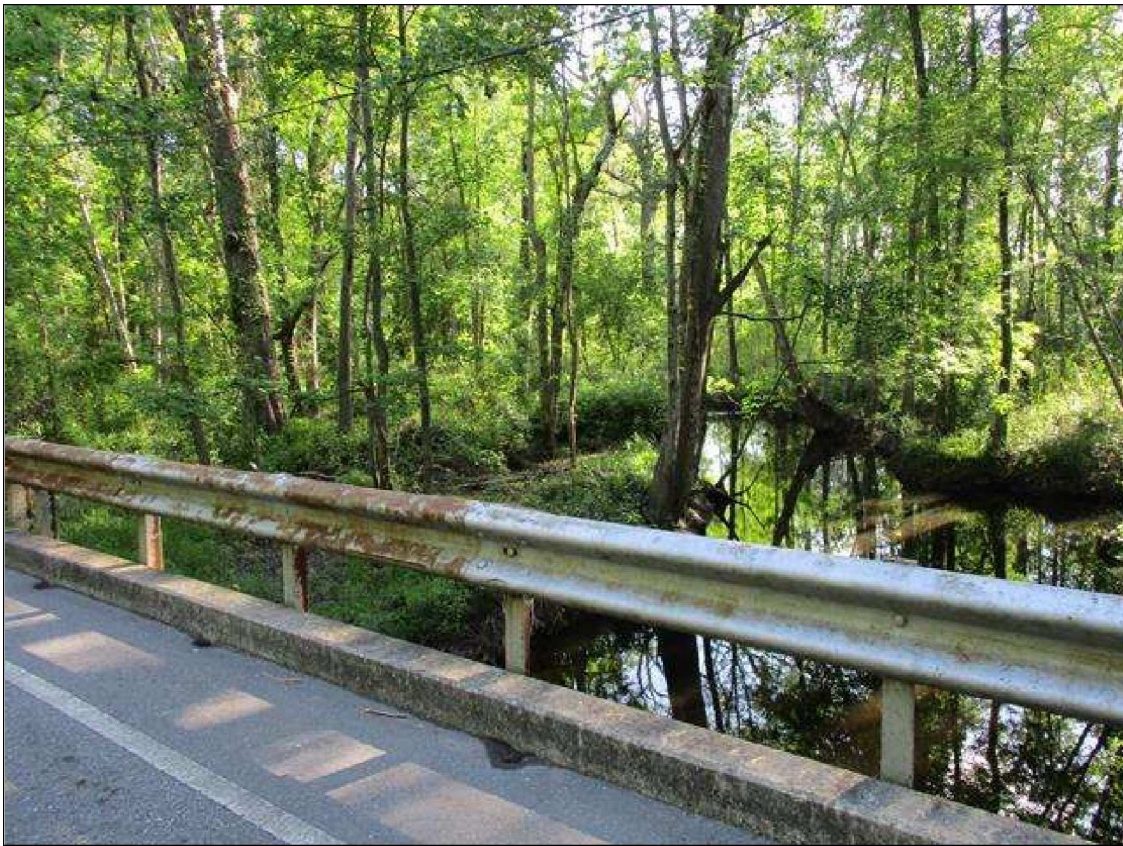
DRIFT AT BENT 2 UPSTREAM END.



DECK DEBRIS ALONG CURB-LINE



Span 1 Right Bridge Rail: FRECKLE SURFACE RUST ON RAIL SURFACES.



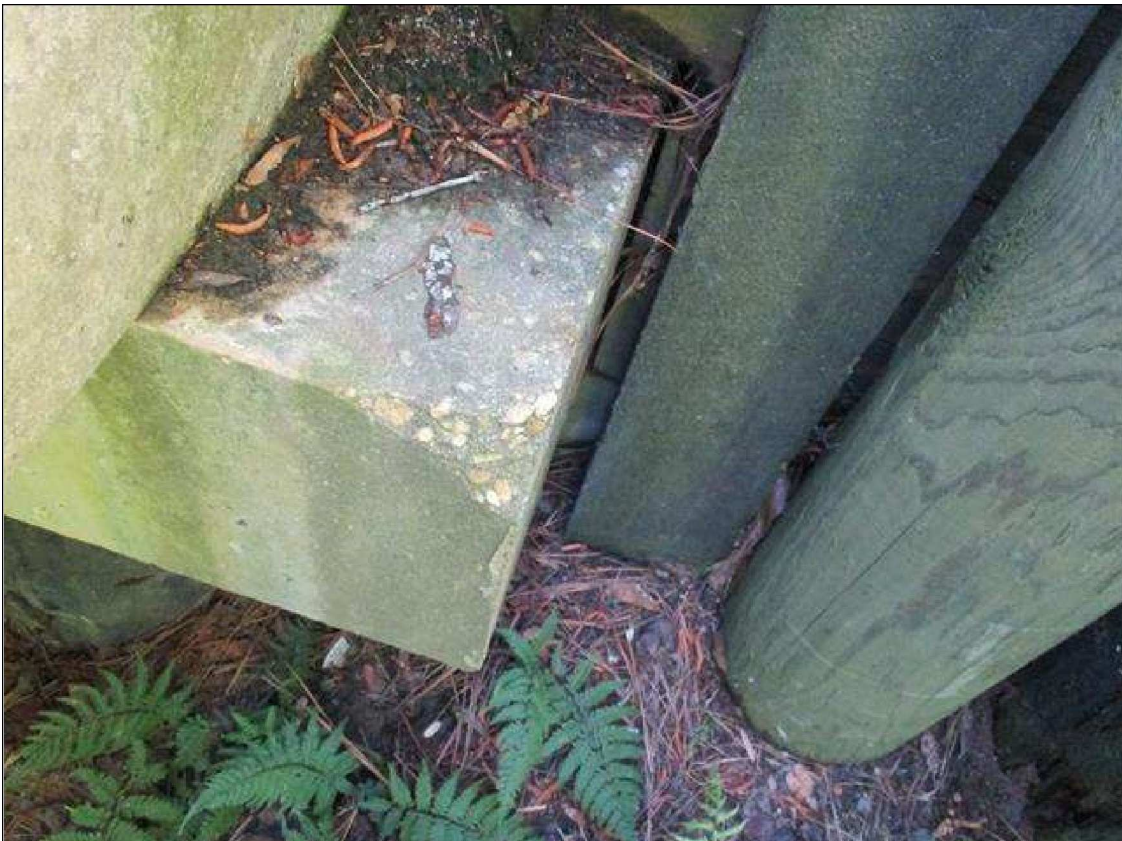
Span 2 Right Bridge Rail: FRECKLE SURFACE RUST ON RAIL SURFACES.



CORNER SPALL 8" X 8" X 1-1/2" DEEP AT END BENT 1 END AT LEFT CURB



End Bent 1 Pile 2: RECENT REPAIR WITH CONCRETE ENCASEMENT.



End Bent 1 Cap 1: CORNER SPALL 3-1/2" WIDE X 2" HIGH X 3/4" DEEP ON LEFT END.



SPALL 11-1/2" WIDE X 7-1/4" HIGH X 1" DEEP WITH REBAR EXPOSED AT POST 3 IN CONCRETE CURB SECTION.



Span 1 Slab 4: NEW REPAIR PATCH AT: 20" LONG X 3" HIGH X FULL WIDTH SPALL WITH EXPOSED STRAND RIGHT LEG AT BENT 1



Span 1 Slab 5: NEW REPAIR PATCH AT: 10" LONG X 5" HIGH X 1/4" DEEP SPALL WITH EXPOSED REBAR LEFT SIDE RIGHT LEG AT BENT 1



Span 1 Slab 5: NEW PATCHED AREA AT: 5' LONG X 3" HIGH FORMING SPALL ALONG RIGHT LEG - 10' FROM END BENT 1



Span 1 Slab 5: NEW PATCHED AREA AT: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR RIGHT LEG LEFT SIDE AT END BENT 1



Span 1 Slab 5: NEW PATCHED AREA AT: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR LEFT LEG RIGHT SIDE AT END BENT 1



BENT 2 LOOKING SOUTH



SUPERSTRUCTURE SPAN 2



SUPERSTRUCTURE SPAN 3



END BENT 2 LOOKING NORTH



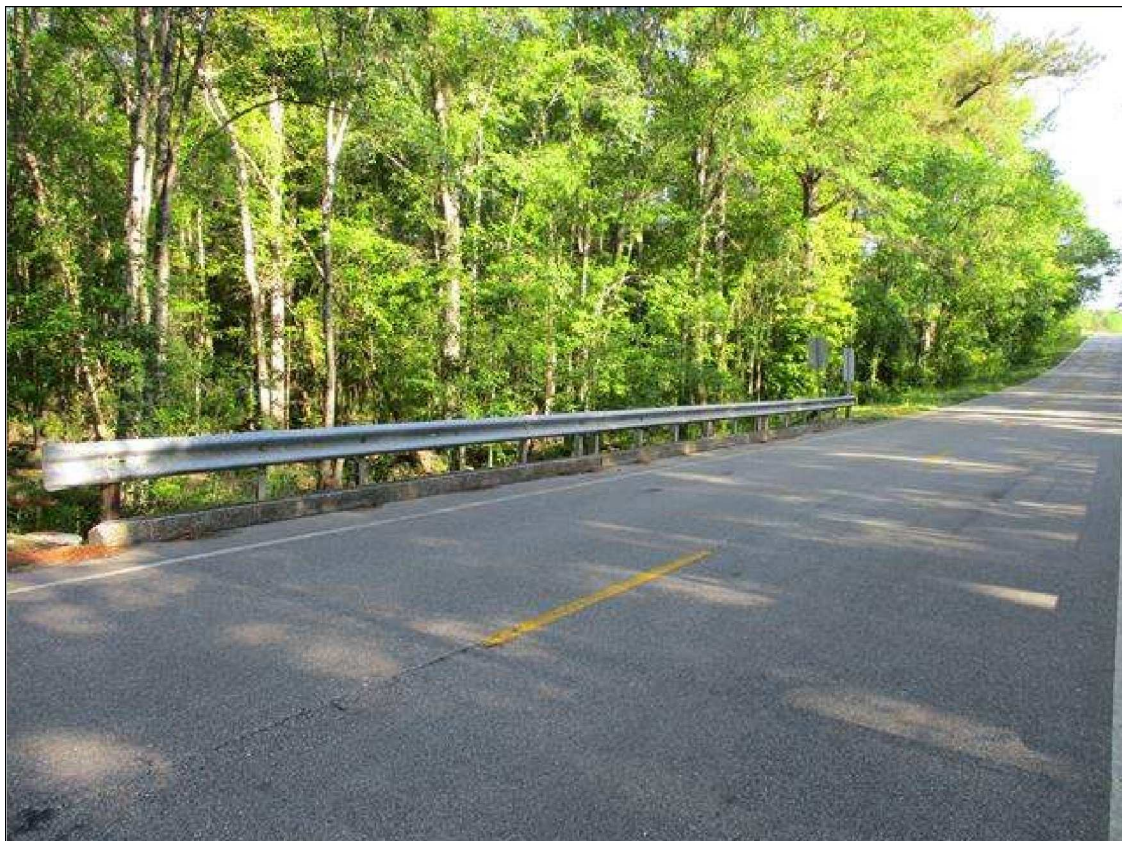
SUPERSTRUCTURE SPAN 1



SOUTH APPROACH LOOKING NORTH



POSTING SV 33 TONS TTST 37 TONS



LEFT RAIL RIGHT RAIL SIMILAR



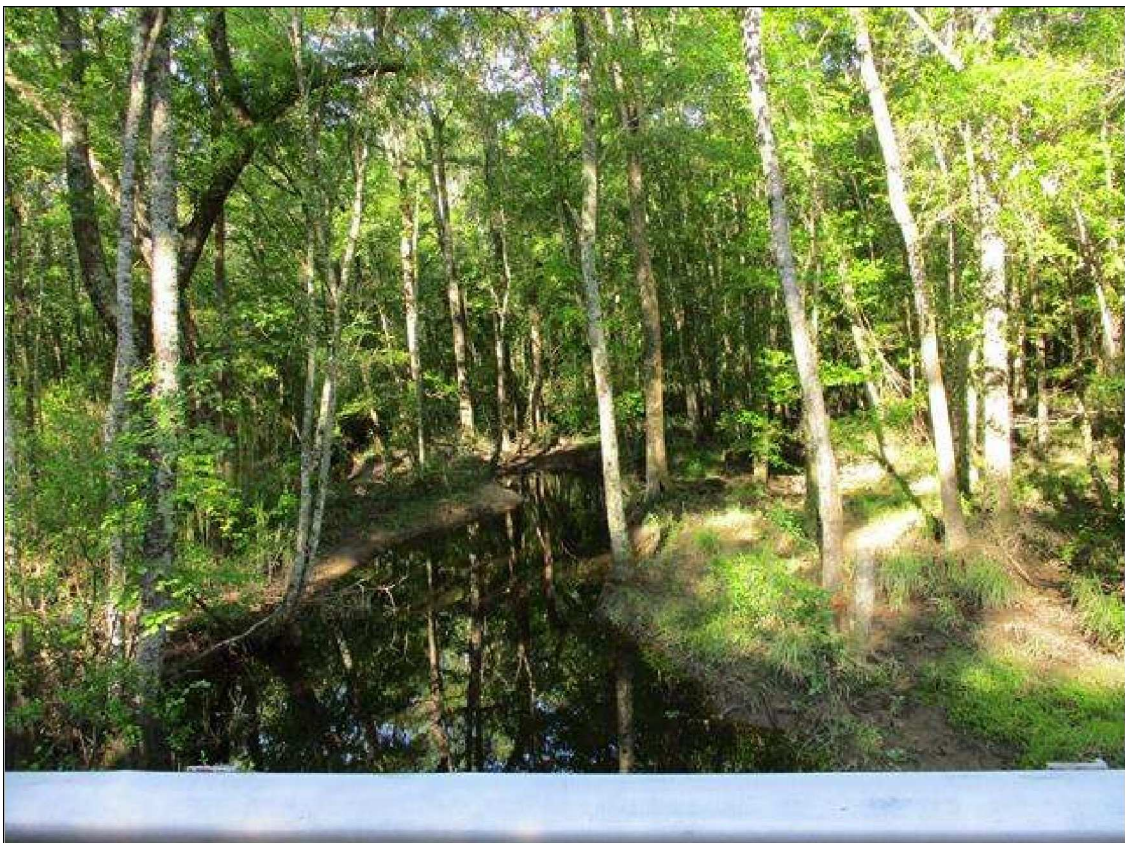
LOOKING WEST



LOOKING EAST



DOWNSTREAM



UPSTREAM



NORTH APPROACH LOOKING SOUTH



POSTING SV 33 TONS TTST 37 TONS



END BENT 1 LOOKING SOUTH



BENT 1 LOOKING NORTH

Stream Bed Soundings

(Profile diagram on following sheet)

County **HARNETT**

Structure Number: **420234**

Inspection Date **05/07/2018**

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

Highwater Mark Distance **6**

Location of Highwater Mark **PILES**

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	3.000	0.000	TOP OF WINGWALL
1.000	4.500	0.000	TOP OF CAP
1.100	6.500	6.600	FACE OF CAP
10.000	7.200	0.000	
20.000	8.700	0.000	
25.000	9.400	13.500	BENT 1
26.000	9.700	0.000	WSWE
35.000	13.900	0.000	STREAMBED
45.000	13.400	0.000	STREAMBED
50.000	13.900	11.200	BENT 2
53.000	9.700	0.000	WSWE
65.000	8.200	0.000	
70.000	7.100	0.000	
74.000	6.300	6.600	FACE OF CAP
74.100	4.500	0.000	TOP OF CAP
75.000	3.000	0.000	TOP OF WINGWALL

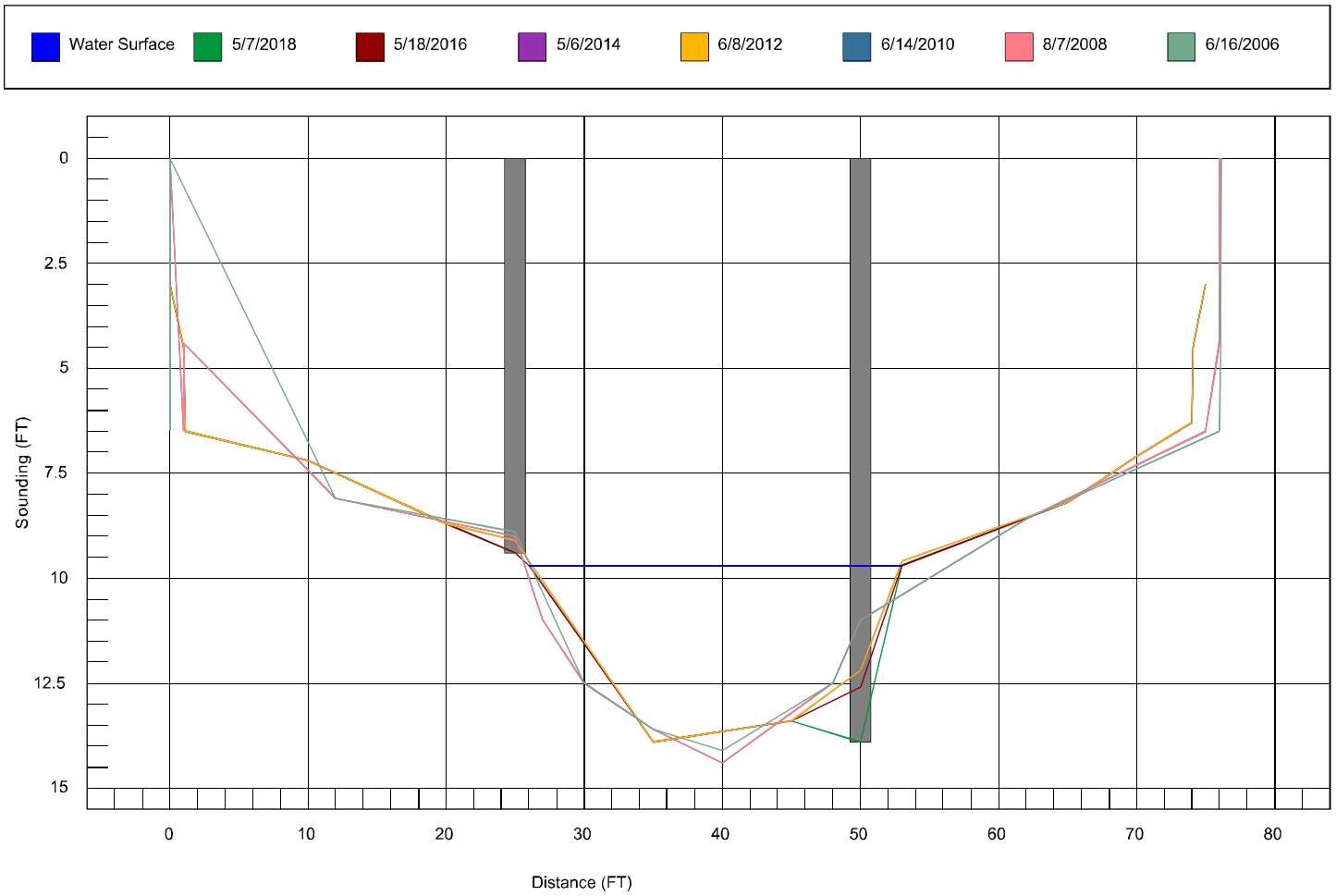
Bridge: 420234

County: HARNETT

Date: 05/07/2018

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

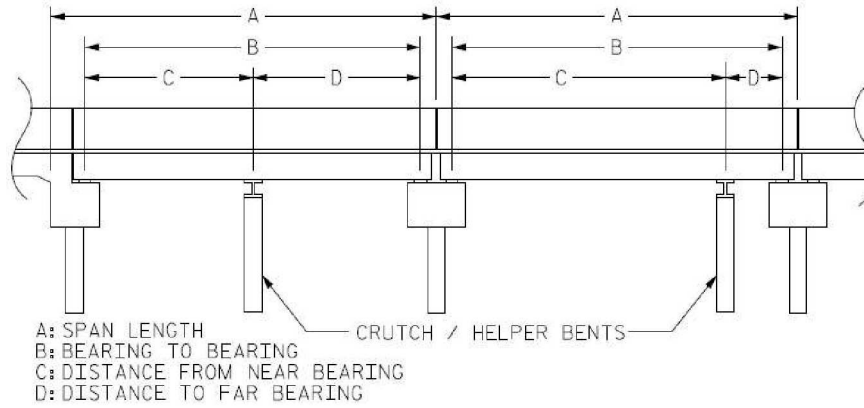


Structure Data Worksheet

Span Profile

County: **HARNETT**

Structure Number: **420234**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	25.000	24.708			
2	25.000	24.708			
3	25.000	24.708			