NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: Changes to Structure Data

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 05/01/2018

DIVISION: 6 **COUNTY:** ROBESON **STRUCTURE NUMBER:** 770164 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: I95 NBL **MILE POST:** 34.9

LOCATION: 0.8 MI.N. OF JCT.SR1726

FEATURE INTERSECTED: LITTLE MARSH SWAMP

LATITUDE: 34° 51' 31.15" **LONGITUDE:** 78° 57' 56.15"

SUPERSTRUCTURE: RC FLOOR/PPC GIRDERS

SUBSTRUCTURE: E.BTS&INT.BTS:PPC CAP/PPC PILES

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

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

GRADES: **DECK** 7 **SUPERSTRUCTURE** 6 **SUBSTRUCTURE** 7 **CULVERT** N

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: none

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	SIGNATURE	ASSISTED BY
JAMES TALACEK		DILLON WINTERS, EI

Structure Element Scoring

Structure Number: **770164**

Inspection Date **5/1/2018**

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	5050	5039	0	11	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	608	605	3	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	12	0	12	0	0
233	0	Prestressed Concrete Pier Cap	Caps	84	84	0	0	0
313	0	Fixed Bearing	Bearing Device	32	4	28	0	0
515	313	Steel Protective Coating	Bearing Device	32	4	0	28	0
321	0	Reinforced Concrete Approach Slabs	Approaches	0	0	0	0	0
333	0	Other Bridge Railing	Bridge Rail	304	135	166	3	0
510	0	Wearing Surface	Wearing Surfaces	4220	4005	0	215	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **770164** Inspection Date: **05/01/2018**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	5 Square Feet
3326	Reinforced Concrete Deck	Efflorescence/Rust Staining	6 Square Feet
3318	Other Bridge Railing	Damage	137 Feet
3318	Other Bridge Railing	Delamination/Spall	32 Feet
2816	Wearing Surface	Crack (Wearing Surface)	208 Square Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	7 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	28 Square Feet

Element Structure Maintenance Quantities

Structure Number: **770164** Inspection Date **05/01/2018**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	0	0	0	0	0	0
Beam	3306	Maintenance Concrete Superstructure Components	0	608	0	0	3	605
Bearing Device	3334	Bridge Bearing	0	32	0	0	28	4
Bearing Device	3342	Clean and Paint Steel	28	32	0	28	0	4
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	169	304	0	3	166	135
Caps	3348	Maintenance of Concrete Substructure	0	84	0	0	0	84
Deck	3326	Maintenance of Concrete Deck	11	5050	0	11	0	5039
Piles and Columns	3348	Maintenance of Concrete Substructure	0	12	0	0	12	0
Wearing Surfaces	2816	Asphalt Surface Repair	215	4220	0	215	0	4005

Element Condition and Maintenance Data

Structure Number: **770164** Inspection Date: **05/01/2018**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,268	1,260	0	8	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	diaphragm at left and right overhangs over bent 1, spall [up to 8in diameter] with exposed rusted reinforcing [loss up to 1/16in]	3	2	2	Square Feet
12	Efflorescence/Rust Staining	left overhang at bent 1, efflorescence buildup	3	6	6	Square Feet
12	Cracking (RC and Other)	throughout underside of deck, multiple transverse and longitudinal cracks [up to full bay width x hairline] with adjacent hairline map cracking	1	750		Square Feet

General Comments

Span 1 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	38	37	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Patched Area	at far end 1ft from bent 1, sound patch [4in diameter]	2	1		Feet

General Comments

at beam ends of interior bent, exposed strand ends

Span 1 Beam 2

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

Span 1 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

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	38	37	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Patched Area	East lower edge at far end 1ft from bent 1, sound patch [6in x 4in]	2	1		Feet

General Comments

at beam ends of interior bent, exposed strand ends

Span 1 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,060	993	0	67	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	3ft from left shoulder, longitudinal crack [full length x up to 1/8in]	3	38	38	Square Feet
510	Crack (Wearing Surface)	asphalt over End Bent 1, multiple transverse cracks [up to full width x up to 1/4in]	3	28	28	Square Feet
510	Patched Area/Pothole (Wearing Surface)	centerline near midspan, pothole [11in x 5in x up to 2in deep]	3	1	1	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	38	35	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	3	3	Feet

General Comments

first segment of bridge rail has been replaced

Span 1 — 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	38	0	38	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Damage	along length of attached metal guardrail, vehicular impact damage with scrapes and tears [up to 12in x up to 3in]	2	34	34	Feet
333	Delamination/Spall	along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 1 — Beam 1 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 — Beam 1 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 — Beam 2 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 — Beam 4 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 — Beam 4 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 — Beam 3 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	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	1,257	1,255	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	at right overhang over bent 1, spall/delamination [20in x 10in x up to 3in deep] with three [3] exposed rusted reinforcing [section loss < 1/16in]	3	2	2	Square Feet
12	Cracking (RC and Other)	throughout underside of deck, multiple transverse and longitudinal cracks [up to full bay width x hairline] with adjacent hairline map cracking	1	700		Square Feet

General Comments

Span 2 — 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	38	37	1	0	0	Feet
515	Steel Protective Coating	0	0	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

109	Patched Area	lower East edge at far end of beam 1ft from bent 2, sound patch [8in diameter]	2	1	Feet

General Comments

at beam ends of interior bent, exposed strand ends

Span 2 Beam 2

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

Span 2 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,050	1,006	0	44	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	3ft from left shoulder, longitudinal crack [full length x up to 1/8in]	3	38	38	Square Feet
510	Patched Area/Pothole (Wearing Surface)	asphalt over bent 2, one [1] pothole in left travel lane and one [1] pothole in right travel lane [18in x up to 12in x up to 2-1/2in deep]	3	6	6	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	38	33	4	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	top face at rail post 2, spall/delamination [8in x 8in x up to 1/4in deep]	3	1	1	Feet
333	Delamination/Spall	along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 2 — 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	38	0	38	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Damage	along length of attached metal guardrail, vehicular impact damage with scrapes and tears [up to 12in x up to 3in]	2	34	34	Feet
333	Delamination/Spall	along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 2 — Beam 1 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 1 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 2 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 2 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 4 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 4 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 Beam 3 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 Beam 3 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	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	1,257	1,256	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	at right overhang over bent 3, spall [10in x 4in x up to 1-1/2in deep] with one [1] exposed rusted reinforcing [section loss up to 1/16in]	3	1	1	Square Feet
12	Cracking (RC and Other)	throughout underside of deck, multiple transverse and longitudinal cracks [up to full bay width x hairline] with adjacent hairline map cracking	1	650		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	38	38	0	0	0	Feet
515	Steel Protective Coating	0	0	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends
North face at lower edge of diaphragm between beams 1 and 2 at near end, spall [24in x 6in x up to 3in deep] with one [1] exposed rusted reinforcing [section loss up to 1/16in]

Span 3 Beam 2

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

Span 3 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

Span 3 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

Span 3 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,050	1,012	0	38	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	3ft from left shoulder, longitudinal crack [full length x up to 1/8in]	3	38	38	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	38	33	3	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	West face at rail post 3, unsound patch [14in x 5in]	3	2	2	Feet
333	Delamination/Spall	along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	3	3	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	38	0	38	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Damage	along length of attached metal guardrail, vehicular impact damage with scrapes and tears [up to 12in x up to 3in]	2	35	35	Feet
333	Delamination/Spall	along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	3	3	Feet

General Comments

Span 3 — Beam 2 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 2 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 1 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 1 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 3 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 3 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 Beam 4 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 Beam 4 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 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	38	38	0	0	0	Feet
515	Steel Protective Coating	0	0	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

Span 4 Beam 2

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends of interior bent, exposed strand ends

Span 4 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

at beam ends of interior bent, exposed strand ends

Span 4 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

at beam ends of interior bent, exposed strand ends

Span 4 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,060	994	0	66	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	3ft from left shoulder, longitudinal crack [full length x up to 1/8in]	3	38	38	Square Feet
510	Crack (Wearing Surface)	asphalt over End Bent 2, multiple transverse cracks [up to full width x up to 1/4in] with edge spalling [up to 1in]	3	28	28	Square Feet

General Comments

Span 4 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	38	34	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 4 — 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	38	0	38	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Damage	along length of attached metal guardrail, vehicular impact damage with scrapes and tears [up to 12in x up to 3in]	2	34	34	Feet
333	Delamination/Spall	along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 4 — Beam 1 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Beam 1 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Beam 2 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Beam 4 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Beam 4 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Beam 3 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square 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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	1		Each

General Comments

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	
226	Abrasion/Wear (PSC/RC)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	1		Each

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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	1		Each

General Comments

Bent 3 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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	1		Each

General Comments

Bent 3 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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	1	Each

General Comments

Bent 3 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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	1		Each

General Comments

Bent 3 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)	at waterline down 18in, minor abrasion [up to 1/16in deep]	2	1		Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1268
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1060
Span 1	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 1 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 2 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 3 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 3 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 4 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 4 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1257
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1050
Span 2	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 1 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 2 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 3 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 3 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 4 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 4 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1257
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1050
Span 3	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 1 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 2 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 3 Far Bearing	Fixed Bearing	Fixed Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Beam 3 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 4 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 4 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1268
Span 4	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 4	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 4	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 4	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 4	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 4	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1060
Span 4	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 1 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 2 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 3 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 3 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 4 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 4 Far Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	28
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 2	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	28
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 3	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	28
Bent 3	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1

General Inspection Notes

Span 1 Beam 2

at beam ends of interior bent, exposed strand ends

Span 1 Beam 3

at beam ends of interior bent, exposed strand ends

Span 2 Beam 2

at beam ends of interior bent, exposed strand ends

Span 2 Beam 3

at beam ends of interior bent, exposed strand ends

Span 2 Beam 4

at beam ends of interior bent, exposed strand ends

Span 3 Beam 1

at beam ends of interior bent, exposed strand ends
North face at lower edge of diaphragm between beams 1 and 2 at near end, spall [24in x 6in x up to 3in deep] with one [1] exposed rusted reinforcing [section loss up to 1/16in]

Span 3 Beam 2

at beam ends of interior bent, exposed strand ends

Span 3 Beam 3

at beam ends of interior bent, exposed strand ends

Span 3 Beam 4

at beam ends of interior bent, exposed strand ends

Span 4 Beam 1

at beam ends of interior bent, exposed strand ends

Span 4 Beam 2

at beam ends of interior bent, exposed strand ends

Span 4 Beam 3

at beam ends of interior bent, exposed strand ends

Span 4 Beam 4

at beam ends of interior bent, exposed strand ends

National Bridge and NC Inspection Items

Structure Number: 770164 **Inspection Date:** 05/01/2018

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	**25**		
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	**5**
Traffic Control Time	Hours	**0**
Snooper Time	Hours	**0**
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: 770164 **Inspection Date:** 05/01/2018

Item	Other Equipment Used	**Grade**	Y	**Maint Code**	**Qty.** 0
Details	Wetsuit, Mask, Fins				

Item	General Comments and Misc Items	**Grade**		**Maint Code**	**Qty.** 0
Details	North approach asphalt: throughout North approach asphalt, multiple transverse cracks [up to full width x up to 1/4in] South approach asphalt: throughout South approach asphalt, multiple transverse cracks [up to full width x up to 1/4in] with adjacent map cracking [up to 1/8in]				

Span 4 Wearing Surface: ashpalt over End Bent 2, multiple transverse cracks [up to full width x up to 1/4in] with edge spalling [up to 1in]

Span 4 Wearing Surface: 3ft from left shoulder, longitudinal crack [full length x up to 1/8in]

Span 3 Left Bridge Rail: West face at rail post 3, unsound patch [14in x 5in]

Span 2 Wearing Surface: asphalt over bent 2, one [1] pothole in left travel lane and one [1] pothole in right travel lane [18in x up to 12in x up to 2-1/2in deep]

Span 2 Left Bridge Rail: top face at rail post 2, spall/delamination [8in x 8in x up to 1/4in deep]

Span 1 Wearing Surface: centerline near midspan, pothole [11in x 5in x up to 2in deep]

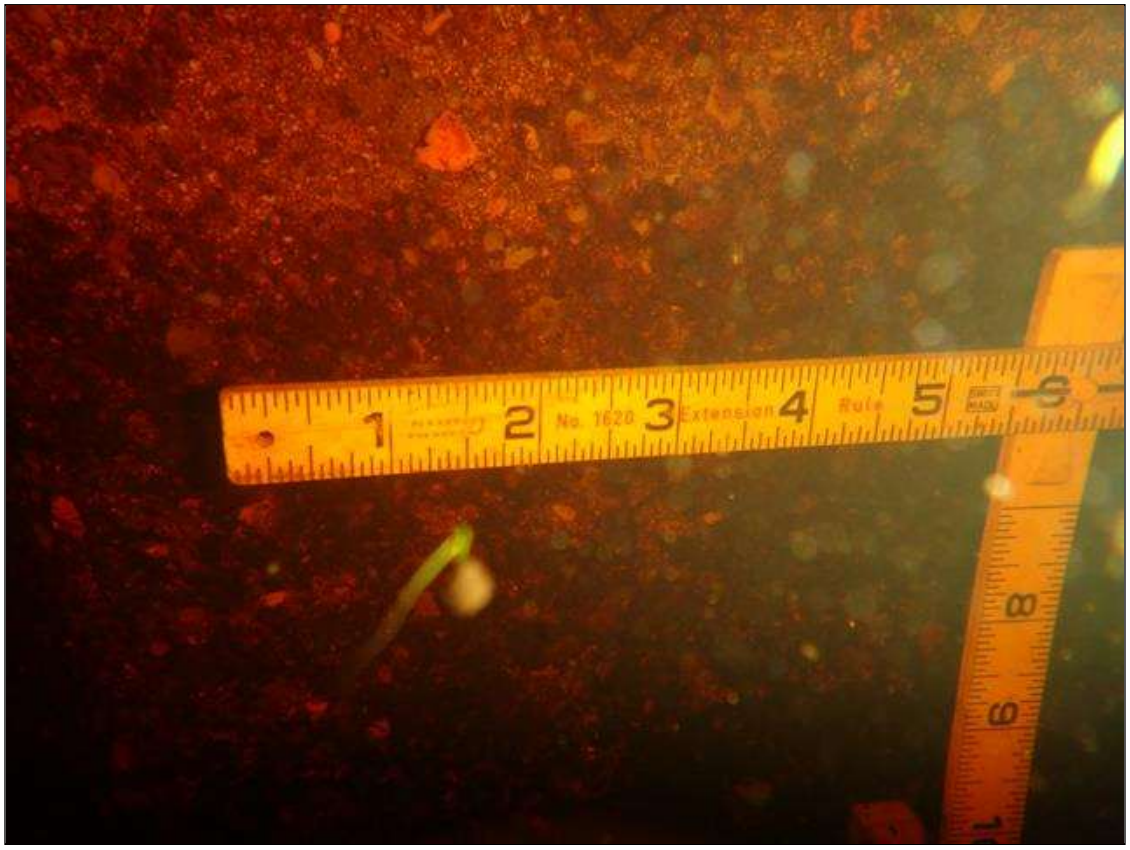
Span 1 Right Bridge Rail: along length of attached metal guardrail, vehicular impact damage with scrapes and tears [up to 12in x up to 3in]

Exposed prestressing ends [similar at all beams at interior bents]

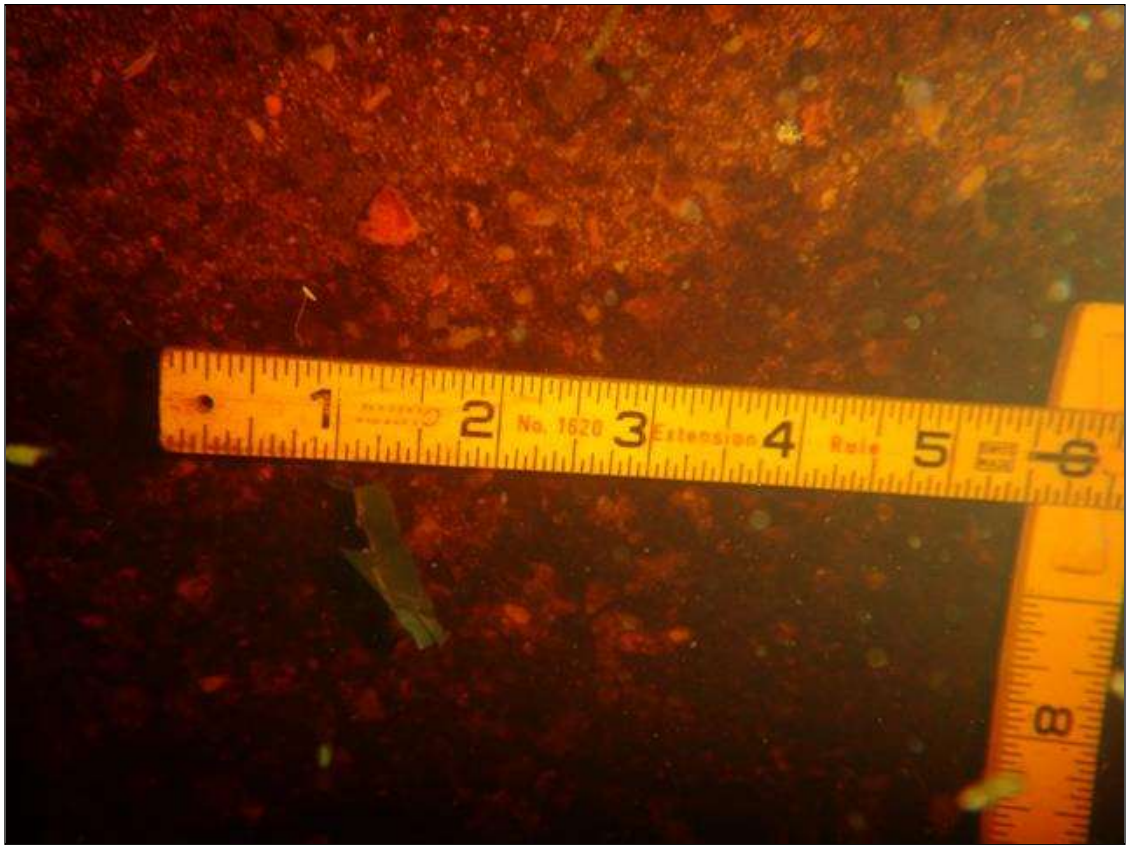
Bent 3 Pile 2: at waterline down 18in, minor abrasion [up to 1/16in deep]

Span 3 Deck: at right overhang over bent 3, spall [10in x 4in x up to 1-1/2in deep] with one [1] exposed rusted reinforcing [section loss up to 1/16in]

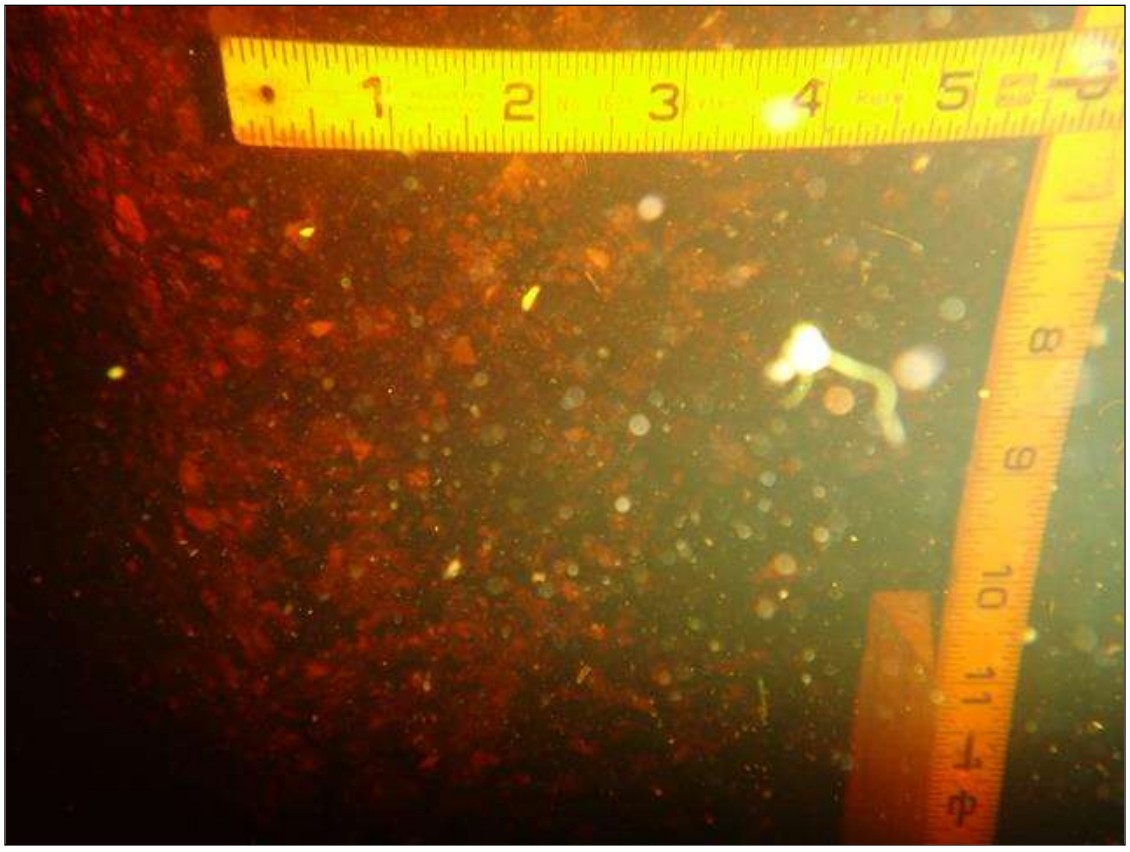
Span 3 Beam 1: North face at lower edge of diaphragm between beams 1 and 2 at near end, spall [24in x 6in x up to 3in deep] with one [1] exposed rusted reinforcing [section loss up to 1/16in]



Bent 2 Pile 2: at waterline down 18in, minor abrasion [up to 1/16in deep]



Bent 2 Pile 2: at waterline down 18in, minor abrasion [up to 1/16in deep]



Bent 2 Pile 2: at waterline down 18in, minor abrasion [up to 1/16in deep]

Span 2 Deck: at right overhange over bent 1, spall/delamination [20in x 10in x up to 3in deep] with three [3] exposed rusted reinforcing [section loss < 1/16in]

Span 1 Beam 1: at far end 1ft from bent 1, sound patch [4in diameter]

Bent 1 Cap 1: West face of cap, one [1] vertical crack [full height x hairline]

Span 1 Deck: left overhang at bent 1, efflorescence buildup

Span 4 Left Bridge Rail: along length of rail at steel rail connections, multiple spalls [up to 5in diameter x up to 1in deep]

Span 4 Beam 1 Far Bearing: active surface corrosion [no section loss noted]

South approach looking South

Southwest guardrail and end treatment

Southeast guardrail and end treatment

typical guardrail post transition spacing

South approach asphalt

asphalt over end bent 1

left bridge rail

right bridge rail

Southeast wingwall

Southwest wingwall

joint over bent 1

joint over bent 2

typical wearing surface

joint over bent 3

asphalt over end bent 2

North approach asphalt

Northwest guardrail and end treatment

Northeast guardrail and end treatment

guardrail at Northeast corner [not connected to bridge rail]

typical guardrail connection to concrete bridge rail

North approach looking South

North approach looking North

bridge plaque at Southeast corner

Northeast wingwall

typical end bearing

end bent 2 and slope protection

bent 3

typical end diaphragm

typical interior diaphragm

typical underside of deck

typical superstructure framing

bent 2

bent 1

typical beam over interior bent

end bent 1 and slope protection

typical interior bearing

looking upstream [West] from under bridge

looking downstream [East] from under bridge

typical deck drain

typical end bearing

typical metal rail to concrete rail connection

West profile looking East

East profile looking West

South approach looking North

Stream Bed Soundings

(Profile diagram on following sheet)

County **ROBESON** Structure Number: **770164** Inspection Date **05/01/2018**

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

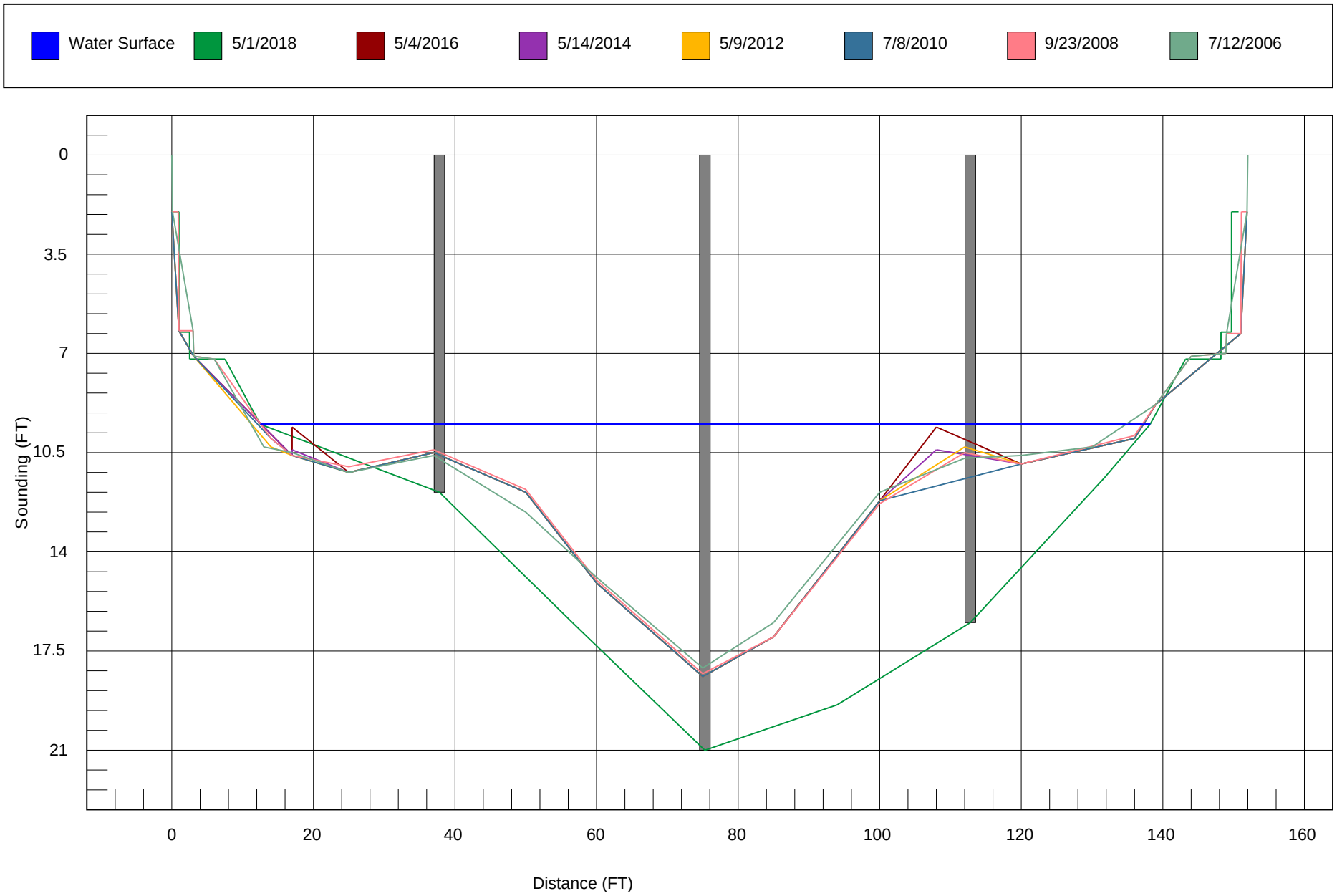
Highwater Mark Distance Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.000	0.000	fill face
1.000	2.000	0.000	face of backwall
1.010	6.250	0.000	cap at backwall
2.500	6.250	0.000	face of cap
2.510	7.200	0.000	top of slope protection
7.500	7.200	0.000	face of slope protection
12.500	9.500	0.000	wswe
37.800	11.900	10.800	bent 1
56.600	16.500	0.000	streambed
75.300	21.000	20.600	bent 2
94.000	19.400	0.000	streambed
112.800	16.500	19.400	bent 3
131.700	11.400	0.000	streambed
138.200	9.500	0.000	wswe
143.200	7.200	0.000	face of slope protection
148.200	7.200	0.000	top of slope protection
148.210	6.250	0.000	face of cap
149.700	6.250	0.000	cap at backwall
149.710	2.000	0.000	face of backwall
150.700	2.000	0.000	fill face

Bridge: 770164 County: ROBESON Date: 05/01/2018

STREAMBED PROFILE (Downstream)

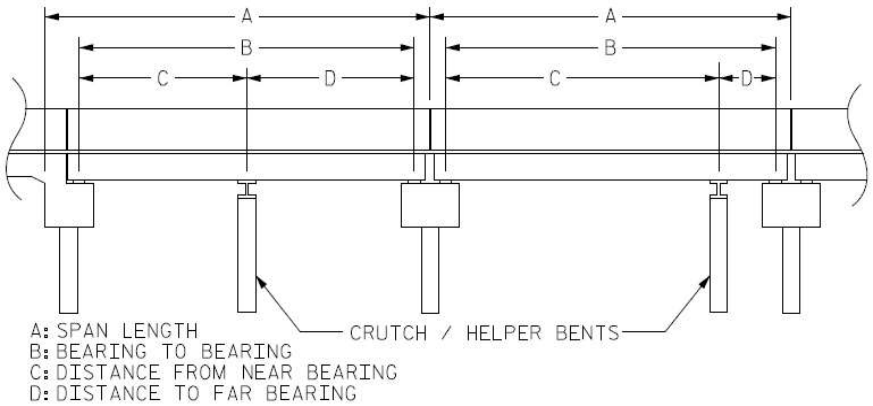
Top of Rail = 0FT (Sounding)



Structure Data Worksheet

Span Profile

County: **ROBESON** Structure Number: **770164**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	37.833	35.917			
2	37.500	36.417			
3	37.500	36.417			
4	37.833	35.917			

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 07/05/2018

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **770164**
(8) STRUCTURE NUMBER(FEDERAL) 000000001550164
(5) INVENTORY ROUTE (ON/UNDER) - ON 11000950
(2) STATE HIGHWAY DEPARTMENT DISTRICT 1
(3) COUNTY CODE 155 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - LITTLE MARSH SWAMP
(7) FACILITY CARRIED I95 NBL
(9) LOCATION 0.8 MI.N. OF JCT.SR1726
(11)MILEPOINT 34.9
(16)LAT 34° 51' 31.15" (17)LONG 78° 57' 56.15"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

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 4
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 1 CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :
(A) TYPE OF WEARING SURFACE - CODE
(B) TYPE OF MEMBRANE - CODE
(C) TYPE OF DECK PROTECTION - CODE

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 19500
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 23%
(19) BYPASS OR DETOUR LENGTH 16 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 36 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 31.5 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 31 FT
(33) BRIDGE MEDIAN - No 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

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

SUFFICIENCY RATING = 50.44
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 - Right Parallel Structure R
(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

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 - Field Evaluation and Document 0
(64) OPERATING RATING - HS-21 37
(65) INVENTORY RATING METHOD - Field Evaluation and Document 0
(66) INVENTORY RATING - HS-12 22
(70) BRIDGE POSTING - No Posting Required 5
(41) STRUCTURE OPEN, POSTED ,OR CLOSED A
DESCRIPTION - Open, No Restriction

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 5
(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

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 39000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 05/01/2018
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - YES 48Mo B) 02/16/2015
C) OTHER SPECIAL INSP NO C)
SCOUR

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 07/05/2018

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
ROBESON	6	1	770164	151 FEET

ROUTE CARRIED : I95 NBL

FEATURE INTERSECTED : LITTLE MARSH SWAMP

LOCATED : 0.8 MI.N. OF JCT.SR1726

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
01	FA	NFA	19500 2013	LT 333 RT 333

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1959	SHC	8.13962		HS 20 + MOD

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

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT	19 FT	12 FT

SUPERSTRUCTURE : RC FLOOR/PPC GIRDERS

SUBSTRUCTURE : E.BTS&INT.BTS:PPC CAP/PPC PILES

SPANS : 1@37'10;2@37'6;1@37'10

BEAMS OR GIRDERS : 4 LINES 36" PPC GIRDERS @ 8' CTS.

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
7.25" RC/3" AWS		31.5 FT

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

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		
HS-12	HS-21		SV	TTST	DATE 01/01/0001

SYSTEM : Primary Interstate

GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

REMARKS :

Bridge Inspection Field Sketch

(I-95 N.B.L.)
(M.P. 34.9)

Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	3ft Wide	3ft Paved	
Right Shoulder	3.5ft Wide	3.5ft Paved	
Left Guardrail	3ft from road		
Right Guardrail	3.5ft from road		

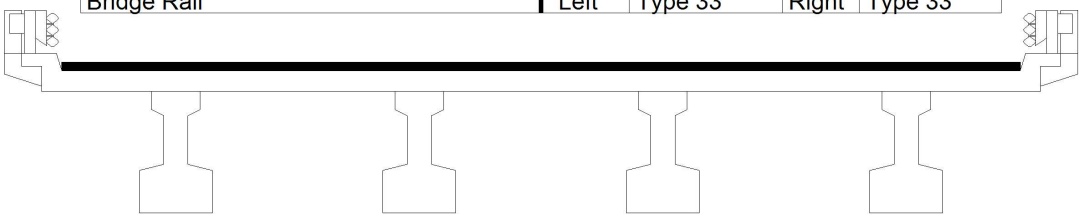
Measurements Taken at South Approach Rail Post 3

All Measurements Revised: J. Talacek 05/01/2018

Title	**Description**		
Approach Roadway Sketch	Data Worksheet		
Bridge No: 770164	**Drawn By:** RLK	**Date:** 5/14/2014	**File Name:** S0254000016

Bridge Inspection Field Sketch

Deck Width/Out to Out	31.5ft*	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	2.25ft	Right	2.25ft
Top of Rail to Deck/Wearing Surface		Left	1.75ft	Right	2.333ft
Bridge Rail		Left	Type 33	Right	Type 33

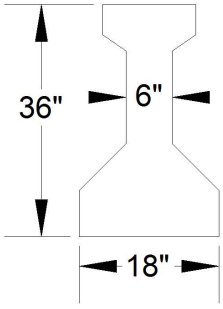


Measurements for Span #	1		
Deck Thickness	0.604ft	Left Overhang	3.75ft
Top of Rail to Bottom of Beam	6.104ft	Right Overhang	3.75ft

Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	8.0ft	
2	PPC Girder	8.0ft	
3	PPC Girder	8.0ft	
4	PPC Girder		

Typical Girder Sketch

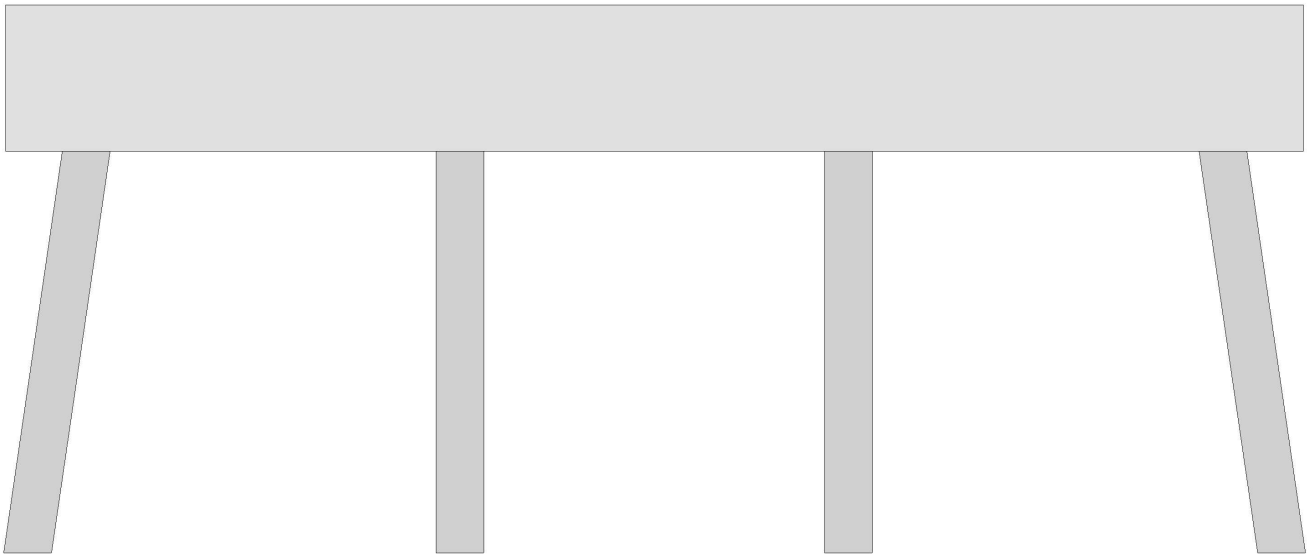
N.T.S.



Measurement Revised: J. Talacek 05/01/2018

Title	**Description**		
Typical Section Sketch	Data Worksheet		
Bridge No: 770164	**Drawn By:** RLK	**Date:** 5/14/2014	**File Name:** S0254000017

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
28 ft.	3 ft.	2.5 ft.	2.000 ft.	2.000 ft.	2 ft.	2 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

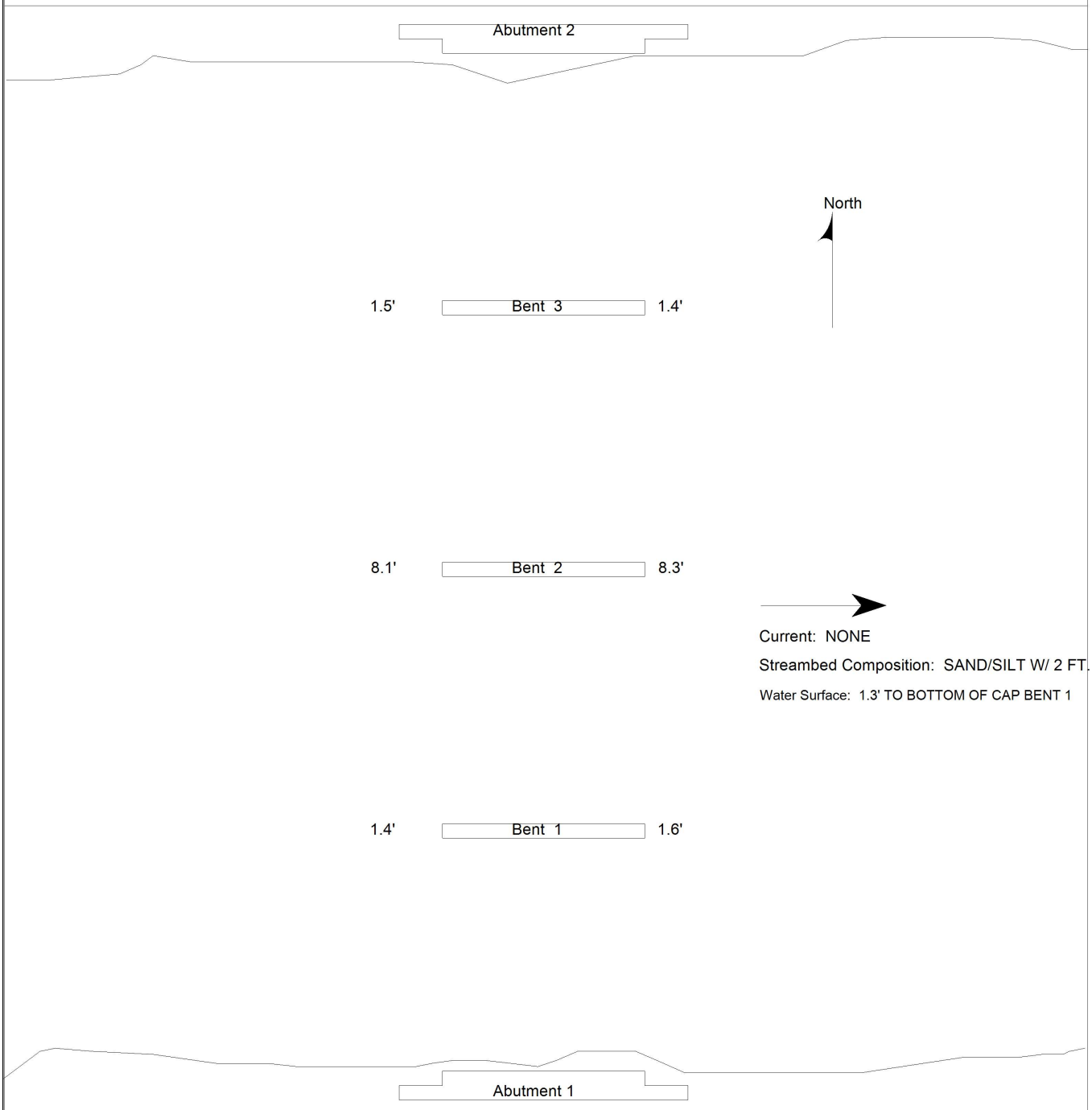
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	8 ft.	1.833 ft.			Battered	No	No	No	No
2	Concrete	8 ft.	1.833 ft.			Vertical	No	No	No	No
3	Concrete	8 ft.	1.833 ft.			Vertical	No	No	No	No
4	Concrete		1.833 ft.			Battered	No	No	No	No

Bent #: 1 Similar Bents: 2, 3

Measurements Verified: J. Talacek 05/01/2018

Title	**Description**		
Typical Bent Sketch	Data Worksheet		
Bridge No: 770164	**Drawn By:** RJH	**Date:** 07/12/2006	**File Name:** S0254000018

Bridge Inspection Field Sketch



CHECKED 9/23/2008

Title	Description
PLAN VIEW	WATERWAY

Bridge No:	Drawn By:	Date:	File Name:
770164	BZC	03/01/2007	S0158000354