NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: ROBESON **STRUCTURE NUMBER:** 770102 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: NC211 **MILE POST:**

LOCATION: 1.6 MI.W. JCT. NC41

FEATURE INTERSECTED: I95, US301

LATITUDE: 34° 38' 47.24" **LONGITUDE:** 79° 0' 48.37"

SUPERSTRUCTURE: RC DECK ON APPROACH:PPC GIRDERS (SIMPLE), MAIN:PPC GIRDERS (CONT), PPC DECK PANI

SUBSTRUCTURE: END BENTS:RC CAPS ON STEEL PILES, INTERIOR BENTS:5 COLUMN, RC POST & BEAM, PILE FOOT

SPANS: 1@32' 6" SIMPLE, 2@98' 6" CONTINUOUS, 1@42' 9" SIMPLE, ALL SPANS COMPOSITE

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

PRESENT CONDITION: Fair **INSPECTION DATE:** 06/14/2017

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

OTHER SIGNS PRESENT: NONE

LOOKING EAST

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	W-E
DIRECTION MATCHES PLANS	YES

INSPECTED BY	SIGNATURE	ASSISTED BY
RD WILLIAMS	RD Williams	RICHARD HINTON

Structure Element Scoring

Structure Number: **770102**

Inspection Date **6/14/2017**

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	26638	17738	8900	0	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	3216	3205	2	9	0
205	0	Reinforced Concrete Column	Piles and Columns	15	15	0	0	0
215	0	Reinforced Concrete Abutment	Abutments	252	252	0	0	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	126	126	0	0	0
225	0	Steel Pile	Foundation Pile	3	3	0	0	0
225	0	Steel Pile	Piles and Columns	38	38	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	594	593	1	0	0
302	0	Compression Joint Seal	Expansion Joints	464	0	464	0	0
310	0	Elastomeric Bearing	Bearing Device	96	96	0	0	0
515	310	Steel Protective Coating	Bearing Device	1235	1235	0	0	0
321	0	Reinforced Concrete Approach Slabs	Approaches	3248	3230	18	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	274	224	50	0	0
333	0	Other Bridge Railing	Bridge Rail	274	0	274	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **770102** Inspection Date: **06/14/2017**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	8900 Square Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	1 Feet
3353	Reinforced Concrete Approach Slabs	Cracking (RC and Other)	8 Square Feet

Element Structure Maintenance Quantities

Structure Number: **770102** Inspection Date **06/14/2017**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	252	0	0	0	252
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	8	3248	0	0	18	3230
Beam	3306	Maintenance Concrete Superstructure Components	11	3216	0	9	2	3205
Bearing Device	3334	Bridge Bearing	0	96	0	0	0	96
Bearing Device	3342	Clean and Paint Steel	0	1235	0	0	0	1235
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	274	548	0	0	324	224
Caps	3348	Maintenance of Concrete Substructure	1	594	0	0	1	593
Deck	3326	Maintenance of Concrete Deck	8900	26638	0	0	8900	17738
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	464	0	0	464	0
Footing	3348	Maintenance of Concrete Substructure	0	126	0	0	0	126
Foundation Pile	3354	Maintenance of Steel Substructure Components	0	3	0	0	0	3
Piles and Columns	3348	Maintenance of Concrete Substructure	0	15	0	0	0	15
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	38	0	0	0	38

Element Condition and Maintenance Data

Structure Number: **770102** Inspection Date: **06/14/2017**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	3,181	3,031	150	0	0	Square Feet
515	Steel Protective Coating	3,181	3,181	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	SCATTERED LONGITUDINAL CRACKS AND SOME MAP CRACKING EXTENDING FROM END BENT 2 JOINT .	2	100	100	Square Feet
12	Cracking (RC and Other)	TOP DECK IN SPAN 1 HAS SOME MAP CRACKING AND DIAGONAL CRACKS IN WBL COMING FROM JOINT AT BENT 1.	2	50	50	Square Feet

General Comments

Span 1 Beam 7

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	31	30	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Span 1 Beam 8

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	31	30	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

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	33	0	33	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

1' LONG X 1/32" WIDE WRAP AROUND CRACKS IN THE CURB AT 1'-3' SPACING
1/16" WIDE TRANSVERSE CRACKS AT 1'-3' SPACING THROUGHOUT SIDEWALK.

Span 1 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	33	19	14	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	SCATTERED VERTICAL CRACKS WITH EFFLO STAINS.	2	14		Feet

General Comments

1/32" WIDE X 6' LONG WRAP AROUND VERTICAL CRACKS WITH EFFLORESCENCE AT 1'-3' SPACING

Span 1 — Expansion Joint

Compression Seal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	116	0	116	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
302	Debris Impaction	DIRT AND SMALL GRAVEL INSIDE JOINT OVER END BENT 1.	2	116		Feet

General Comments

SAND THROUGH OUT JOINT.

Span 2 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	9,637	5,037	4,600	0	0	Square Feet
515	Steel Protective Coating	9,637	9,637	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	SOME SCATTERED LONGITUDINAL CRACKS IN TOP OF DECK OF EBLS.	2	100	100	Square Feet
12	Cracking (RC and Other)	TOP OF THE DECK IN SPAN 2 SOME MAP CRACKING AND TRANSVERSE CRACKS FROM 2' TO 5' ON CENTERS THROUGH OUT EBLS .	2	4,500	4,500	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	99	0	99	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

1' LONG X 1/32" WIDE WRAP AROUND CRACKS IN THE CURB AT 1'-3' SPACING
1/16" WIDE TRANSVERSE CRACKS AT 1'-3' SPACING THROUGHOUT SIDEWALK.

Span 2 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	99	84	15	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	SCATTERED VERTICAL CRACKS WITH EFFLO STAINS.	2	15		Feet

General Comments

1/32" WIDE X 6' LONG WRAP AROUND VERTICAL CRACKS WITH EFFLORESCENCE AT 1'-3' SPACING

Span 2 — Expansion Joint

Compression Seal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	116	0	116	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
302	Debris Impaction	DIRT AND SMALL GRAVEL INSIDE JOINT.	2	116		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	9,637	5,637	4,000	0	0	Square Feet
515	Steel Protective Coating	9,637	9,637	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	SCATTERED TRANSVERSE CRACKS FROM 2' TO 5' CENTERS THROUGH OUT EBLS.	2	4,000	4,000	Square Feet

General Comments

Span 3 — Beam 9

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	98	96	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Span 3 — Beam 11

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	98	97	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

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	99	0	99	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

1' LONG X 1/32" WIDE WRAP AROUND CRACKS IN THE CURB AT 1'-3' SPACING
1/16" WIDE TRANSVERSE CRACKS AT 1'-3' SPACING THROUGHOUT SIDEWALK.

Span 3 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	99	82	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	SCATTERED VERTICAL CRACKS WITH EFFLO STAINS	2	17		Feet

General Comments

1/32" WIDE X 6' LONG WRAP AROUND VERTICAL CRACKS WITH EFFLORESCENCE AT 1'-3' SPACING

Span 4 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	4,183	4,033	150	0	0	Square Feet
515	Steel Protective Coating	4,183	4,183	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	SOME MAP CRACKING AND A FEW TRANSVERSE CRACKS ALSO SOME LONGITUDINAL CRACKS IN EBLS.	2	150	150	Square Feet

General Comments

Span 4 Beam 9

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	41	39	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Span 4 Beam 10

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	41	39	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Span 4 Beam 11

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	41	40	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Span 4 Beam 12

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	41	40	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

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	43	0	43	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

1' LONG X 1/32" WIDE WRAP AROUND CRACKS IN THE CURB AT 1'-3' SPACING.
1/16" WIDE TRANSVERSE CRACKS AT 1'-3' SPACING THROUGHOUT SIDEWALK.

Span 4 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	43	39	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	SCATTERED VERTICAL CRACKS.	2	4		Feet

General Comments

1/32" WIDE X 6' LONG WRAP AROUND VERTICAL CRACKS WITH EFFLORESCENCE AT 1'-3' SPACING

Span 4 — Expansion Joint

Compression Seal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	116	0	116	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
302	Debris Impaction	DIRT AND SMALL GRAVEL INSIDE THE JOINT OVER BENT 3.	2	116		Feet

General Comments

SAND THROUGH OUT JOINT.

Span 4 — Expansion Joint

Compression Seal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	116	0	116	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
302	Debris Impaction	DIRT AND SAND AND SMALL GRAVEL INSIDE JOINT OVER END BENT 2.	2	116		Feet

General Comments

SAND THROUGHOUT JOINT.

End Bent 1 — Reinforced Concrete Abutment 1

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	126	126	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

Bent 2 — Reinforced Concrete Pier Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	114	113	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	BENT 2 EAST FACE OF CAP HAS VERTICAL CRACK WITH EFFLO STAIN BETWEEN G11 AND G12.	2	1	1	Feet

General Comments

End Bent 2 — Reinforced Concrete Pier Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	126	126	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

2'-6" LONG HAIRLINE TRANSVERSE CRACK IN THE TOP OF THE CAP UNDER BAY 2.

Bent 3 — Reinforced Concrete Pier Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	114	114	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

RUST STAINING AND EXPOSED REBAR CHAIRS BETWEEN COLUMNS 1 AND 2.

Approach 1 — Reinforced Concrete Approach Slab 1

Reinforced Concrete Approach Slab

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
321	Reinforced Concrete Approach Slabs	1,624	1,616	8	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
321	Cracking (RC and Other)	SCATTERED LONGITUDINAL CRACKS IN WEST APPROACH .	2	8	8	Square Feet

General Comments

Approach 2 — Reinforced Concrete Approach Slab 2

Reinforced Concrete Approach Slab

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
321	Reinforced Concrete Approach Slabs	1,624	1,614	10	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

321	Cracking (RC and Other)	SCATTERED LONGITUDINAL CRACKS ACROSS APPROACH IN EBL AND WBL.	2	10	Square Feet

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	3181
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 7	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 9	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 10	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 11	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Beam 12	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	31
Span 1	Left Bridge Rail	Concrete and Metal Railing	Metal Bridge Railing	33
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	33
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 1	Expansion Joint	Compression Seal	Pourable Joint Seal	58
Span 1	Expansion Joint	Compression Seal	Compression Joint Seal	116
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	9637
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 7	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 9	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 10	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 11	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Beam 12	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	99
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	99
Span 2	Expansion Joint	Compression Seal	Compression Joint Seal	116
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	9637
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 7	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 9	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 10	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Beam 11	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Beam 12	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	98
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	99
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	99
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4183
Span 4	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 7	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 9	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 10	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 11	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Beam 12	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 4	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	43
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	43
Span 4	Expansion Joint	Compression Seal	Compression Joint Seal	116
Span 4	Expansion Joint	Compression Seal	Pourable Joint Seal	58
Span 4	Expansion Joint	Compression Seal	Compression Joint Seal	116
Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	114
Bent 1		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1		Reinforced Concrete Column	Timber Column	1
Bent 1		Reinforced Concrete Column	Prestressed Concrete Column	1
Bent 1		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1		Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	126
End Bent 1		Reinforced Concrete Abutment	Reinforced Concrete Abutment	126
Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	114
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Prestressed Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	126
End Bent 2		Reinforced Concrete Abutment	Reinforced Concrete Abutment	126
Bent 3		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	114
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

Bent 1

Bent 2

2'-6" LONG HAIRLINE TRANSVERSE CRACK IN THE TOP OF THE CAP UNDER BAY 2.

Bent 3

RUST STAINING AND EXPOSED REBAR CHAIRS BETWEEN COLUMNS 1 AND 2.

Span 2

SAND THROUGHOUT JOINT.

National Bridge and NC Inspection Items

Structure Number: 770102 **Inspection Date:** 06/14/2017

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**5**
Item 59: Superstructure	0 - 9 , N	**7**
Item 60: Substructure	0 - 9 , N	**7**
Item 61: Channel and Channel Protection	0 - 9 , N	**N**
Item 62: Culvert	0 - 9 , N	**N**
Item 71: Waterway Adequacy	0 - 9 , N	**N**
Item 72: Approach Roadway Alignment	0 - 9 , N	**8**

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**G**	**0**	**3376**
Drainage System	G, F, P, or C	**G**	**0**	**3332**
Utilities	G, F, P, or C	**G**		
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
Field Scour Evaluation				
Drift	G, F, P, or C		**0**	**3366**
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Estimated Remaining Life	0 - 100 Years	**44**		
Superstructure Paint Code				

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**N**
Inspection Time	Hours	**8**
Traffic Control Time	Hours	
Snooper Time	Hours	
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: 770102 **Inspection Date:** 06/14/2017

Item	Grade	Maint Code	Qty.
Details			

END DIAPHRAGM IN SPAN 3 OVER BENT 2 EAST FACE IN BAY 5 AT LT SIDE OF G6 HAS DELAMINATED AND SPALLED AREA 12" X 14".

END DIAPHRAGM IN SPAN 3 OVER BENT 2 EAST FACE AT LT SIDE G7 HAS DELAMINATED AREA 12" X 16".

END DIAPHRAGM IN SPAN 3 OVER BENT 2 EAST FACE ON LT SIDE OF G8 HAS SPALLED AREA 8" X 12" X 2" DEEP.

Bent 2 Cap 1: BENT 2 EAST FACE OF CAP HAS VERTICAL CRACK WITH EFFLO STAIN BETWEEN G11 AND G12.

Span 1 Right Bridge Rail: SCATTERED VERTICAL CRACKS WITH EFFLO STAINS.

Expansion Joint : DIRT AND SMALL GRAVEL INSIDE JOINT OVER END BENT 1.

Expansion Joint : DIRT AND SMALL GRAVEL INSIDE JOINT.

Span 2 Right Bridge Rail: SCATTERED VERTICAL CRACKS WITH EFFLO STAINS.

Span 2 Deck: TOP OF THE DECK IN SPAN 2 SOME MAP CRACKING AND TRANSVERSE CRACKS FROM 2' TO 5' ON CENTERS THROUGH OUT EBLS .

Span 3 Right Bridge Rail: SCATTERED VERTICAL CRACKS WITH EFFLO STAINS

Span 3 Deck: SCATTERED TRANSVERSE CRACKS FROM 2' TO 5' CENTERS THROUGH OUT EBLS.

Expansion Joint : DIRT AND SMALL GRAVEL INSIDE THE JOINT OVER BENT 3.

Expansion Joint : DIRT AND SAND AND SMALL GRAVEL INSIDE JOINT OVER END BENT 2.

Approach 2: SCATTERED LONGITUDINAL CRACKS ACROSS APPROACH IN EBL AND WBL.

Span 4 Deck: SOME MAP CRACKING AND A FEW TRANSVERSE CRACKS ALSO SOME LONGITUDINAL CRACKS IN EBLS.

Span 2 Deck: SOME SCATTERED LONGITUDINAL CRACKS IN TOP OF DECK OF EBLS.

Span 1 Deck: TOP DECK IN SPAN 1 HAS SOME MAP CRACKING AND DIAGONAL CRACKS IN WBL COMING FROM JOINT AT BENT 1.

Approach 1: SCATTERED LONGITUDINAL CRACKS IN WEST APPROACH .

Span 1 Deck: SCATTERED LONGITUDINAL CRACKS AND SOME MAP CRACKING EXTENDING FROM END BENT 2 JOINT .

LOOKING NORTH IN NBL

LOOKING SOUTH IN NBL

LOOKING SOUTH IN SBL

LOOKING NORTH IN SBL

GUARD RAIL TERMINAL END

LOOKING EAST

GUARD RAIL TRANSITION

GUARD RAIL ATTACHMENT

EXPANSION JOINT AT END BENT 1

EXPANSION JOINT AT BENT 1

FROM BRIDGE LOOKING EAST

FROM BRIDGE LOOKING WEST

FROM BRIDGE LOOKING NORTH

EXPANSION JOINT OVER BENT 3

EXPANSION JOINT AT END BENT 2

LOOKING WEST

BENT 2

SUPERSTRUCTURE

BENT 3 WITH BENT 1 SIMILAR

END BENT 2

TYPICAL BENT BEARING ALL OTHERS SIMILAR.

END BENT 1

BENT 1 VIEW OF CAP RISERS UNDER GIRDERS.

UTILITY IS ATTACHED AT THE RT ABUT OUTSIDE G12 AT END BENT 1 AND END BENT 2 SIMILAR AREA.

BOTTOM OF DECK HAS CONCRETE SIP FORMS

RIGHT RAIL

LEFT RAIL

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 03/23/2018

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **770102**
(8) STRUCTURE NUMBER(FEDERAL) 000000001550102
(5) INVENTORY ROUTE (ON/UNDER) - ON 31002110
(2) STATE HIGHWAY DEPARTMENT DISTRICT 1
(3) COUNTY CODE 155 (4) PLACE CODE 39700
(6) FEATURE INTERSECTED - I95, US301
(7) FACILITY CARRIED NC211
(9) LOCATION 1.6 MI.W. JCT. NC41
(11)MILEPOINT 0
(16)LAT 34° 38' 47.24" (17)LONG 79° 0' 48.37"
(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 : Prestressed Concrete Continuous
TYPE - Stringer Mutlibeam or Girder CODE 602
(45) NUMBER OF SPANS IN MAIN UNIT 2
(46) NUMBER OF APPROACH SPANS 2
(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 2001
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Overpass - Interchange
UNDER - Highway CODE 61
(28) LANES: ON STRUCTURE 6 UNDER STRUCTURE 6
(29) AVERAGE DAILY TRAFFIC 23000
(30) YEAR OF ADT 2015 (109) TRUCK ADT PCT 12%
(19) BYPASS OR DETOUR LENGTH 0 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 97 FT
(49) STRUCTURE LENGTH 272 FT
(50)CURB OR SIDEWALK: LEFT 5 FT RIGHT 0 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 91 FT
(52) DECK WIDTH OUT TO OUT 97.833 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 91 FT
(33) BRIDGE MEDIAN - No Median CODE 0
(34) SKEW 34° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 91 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Highway 17.75 FT
(55) MIN LAT UNDERCLEAR RT REF Highway 41 FT
(56) MIN LAT UNDERCLEAR LT REF - 12.5 FT

NAVIGATION DATA

(38) NAVIGATION CONTROL - Not Applicable CODE N
(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 = 85.5
STATUS = Not Deficient

CLASSIFICATION — CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is on the NHS 1
(26) FUNCTIONAL CLASS - Other Principal Arterial 14
(100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
(101)PARALLEL STRUCTURE - No Parallel Structure N
(102)DIRECTION OF TRAFFIC - 2-way Traffic 2
(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 5
(59) SUPERSTRUCTURE 7
(60) SUBSTRUCTURE 7
(61) CHANNEL & CHANNEL PROTECTION N
(62) CULVERTS N

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD HS 20 + MOD 6
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-48 87
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-25 45
(70) BRIDGE POSTING - No Posting Required 5
(41) STRUCTURE OPEN, POSTED ,OR CLOSED A
DESCRIPTION - Open, No Restriction

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 7
(68) DECK GEOMETRY 9
(69) UNDERCLEARANCES,VERTI & HORIZ 6
(71) WATERWAY ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 1100
(113)SCOUR CRITICAL BRIDGES N

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 46000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 06/14/2017
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - NO B)
C) OTHER SPECIAL INSP NO C)
SCOUR

Structure No: 770102 County: ROBESON Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1					STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade			
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I95S,US301S	11000950	20.67	19.90	1	10095		11	3	25500	2015	75	H	20.17	38	13	9	1	1	1
3	I95N,US301N	11000950	18.83	19.90	1	10095		11	3	25500	2015	77.5	H	17.75	41	12.5	9	1	1	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 03/23/2018

COUNTY : ROBESON | DIVISION : 6 | DISTRICT: 1 | STRUCTURE NUMBER : 770102 | LENGTH : 272 FEET

ROUTE CARRIED : NC211

FEATURE INTERSECTED : I95, US301

LOCATED : 1.6 MI.W. JCT. NC41

BRIDGE NAME :

CITY : LUMBERTON

FUNC. CLASS : 14 | SYST.ON : FA | SYST.UNDER : NFA | ADT & YR : 23000 2015 | RAIL TYPE : LT 639 RT 41

BUILT : 2001 | BY : DOH | PROJ : 8.1461602 | FED.AID PROJ : STP-NHF-7761 | DESIGN LOAD : HS 20 + MOD

REHAB : | BY : | PROJ : | ALIGNMENT : TAN | SKEW : 56 | LANES : ON 6 UNDER 6

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

SUPERSTRUCTURE : RC DECK ON APPROACH:PPC GIRDERS (SIMPLE), MAIN:PPC GIRDERS (CONT), PPC DECK PANELS, APPROACH SLABS

SUBSTRUCTURE : END BENTS:RC CAPS ON STEEL PILES, INTERIOR BENTS:5 COLUMN, RC POST & BEAM, PILE FOOTINGS

SPANS : 1@32' 6" SIMPLE, 2@98' 6" CONTINUOUS, 1@42' 9" SIMPLE, ALL SPANS COMPOSITE

BEAMS OR GIRDERS : 12 LINES OF PPC GIRDERS @ VARIOUS CENTERS, SP#1&4:36" GDRS (SIMPLE), SP#2&3:54" GDRS (CONTINUOUS)

FLOOR : 5" RC, 3.5" PPC | ENCROACHMENT : PH.DUCT BMS.3&4 | DECK (OUT TO OUT) : 97.833 FT

CLEAR ROADWAY : 91 FT | BETWEEN RAILS : 96 FT | SIDEWALK OR CURB : LT 5 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-25 | OPE.RTG. : HS-48 | CONTR.MEMBER : int.gdrD | POSTED : SV TTST DATE

SYSTEM : Primary N.C. Route

GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I95S,US301S	20.6670	20.1670	75	13	38
3	I95N,US301N	18.8330	17.75	77.50	12.50	41

Note: All measurements are in feet.

REMARKS :

Bridge Inspection Field Sketch

NC 211 (N. ROBERTS AVE)

(OVER I-95 AT M.P. 19.9)

Three thru lanes in each direction with painted median

Roadway	85ft Wide	6 Paved Lanes	Looking East
Left Shoulder	5ft Wide	3ft Paved	2ft Unpaved
Right Shoulder	5ft Wide	3ft Paved	2ft Unpaved
Left Guardrail			
Right Guardrail	3ft from road		

MEASUREMENTS VERIFIED BY RL BOWERS 9/15/2011

MEASUREMENTS VERIFIED BY RLK 6/4/13

MODIFIED BY RAP 6/8/15

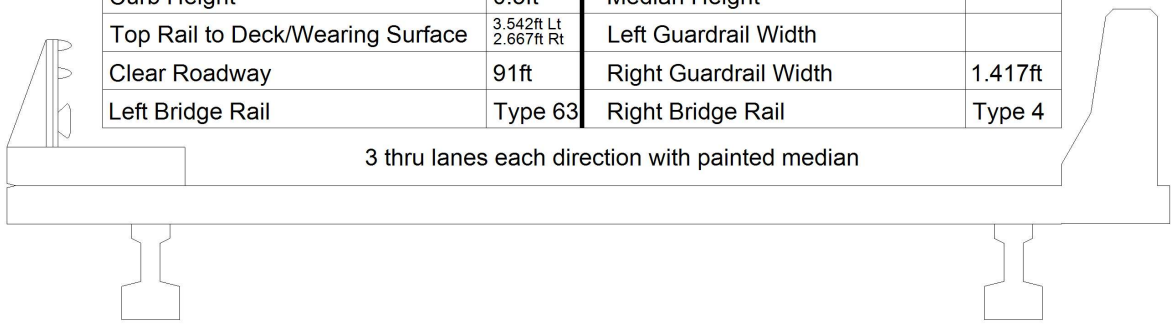
VERIFIED BY R WILLIAMS 6/14/17

Title	**Description**
APPROACH ROADWAY	LOOKING EAST

Bridge No: 770102	**Drawn By:** RJH	**Date:** 07/16/2006	**File Name:** S0254000027

Bridge Inspection Field Sketch

Deck Width/Out to Out	97.833ft	Wearing Surface	
Between Rails	96ft	Median Width	
Curb Height	0.5ft	Median Height	
Top Rail to Deck/Wearing Surface	3.542ft Lt 2.667ft Rt	Left Guardrail Width	
Clear Roadway	91ft	Right Guardrail Width	1.417ft
Left Bridge Rail	Type 63	Right Bridge Rail	Type 4



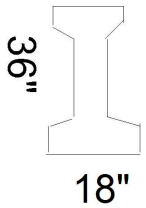
Measurements for Span #	1	Span 4 Similar	
Deck Thickness	0.708	Left Overhang	3.833
Top of Rail to Bottom of Beam	6.833	Right Overhang	3.833

Beam No	Beam Type	Spacing	Comments
1	PPC Girder	8.5ft	36" TYPE II PPC (TYPICAL)
2	PPC Girder	8.5ft	
3	PPC Girder	8.5ft	
4	PPC Girder	8.5ft	
5	PPC Girder	8.5ft	
6	PPC Girder	8.5ft	
7	PPC Girder	8.5ft	
8	PPC Girder	5ft	
9	PPC Girder	8.5ft	
10	PPC Girder	8.5ft	
11	PPC Girder	8.5ft	
12	PPC Girder		

MEASUREMENTS VERIFIED BY RL BOWERS 9/15/2011

MEASUREMENTS VERIFIED BY RLK 6/4/13
MODIFIED BY RP 6/8/15

VERIFIED BY R WILLIAMS 6/14/17

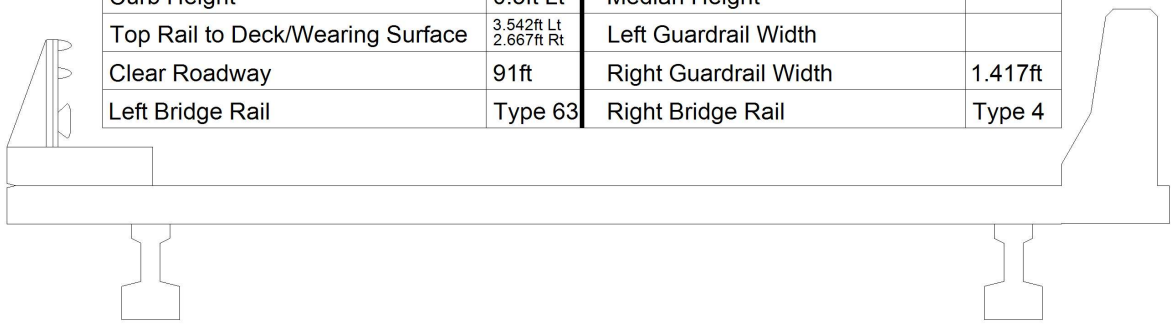


Title	Description
SUPERSTRUCTURE	SPANS 1 AND 4

Bridge No:	Drawn By:	Date:	File Name:
770102	RJH	07/16/2006	S0254000028

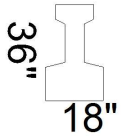
Bridge Inspection Field Sketch

Deck Width/Out to Out	97.833ft	Wearing Surface	
Between Rails	96ft	Median Width	
Curb Height	0.5ft Lt	Median Height	
Top Rail to Deck/Wearing Surface	3.542ft Lt 2.667ft Rt	Left Guardrail Width	
Clear Roadway	91ft	Right Guardrail Width	1.417ft
Left Bridge Rail	Type 63	Right Bridge Rail	Type 4



Measurements for Span #	2	SPAN 3 SIMILAR	
Deck Thickness	0.708	Left Overhang	3.833
Top of Rail to Bottom of Beam	8.333	Right Overhang	3.833

Beam No	Beam Type	Spacing	Comments
1	PPC Girder	8.5ft	54" TYPE IV PPC (TYP)
2	PPC Girder	8.5ft	
3	PPC Girder	8.5ft	
4	PPC Girder	8.5ft	
5	PPC Girder	8.5ft	
6	PPC Girder	8.5ft	
7	PPC Girder	8.5ft	
8	PPC Girder	5ft	
9	PPC Girder	8.5ft	
10	PPC Girder	8.5ft	
11	PPC Girder	8.5ft	
12	PPC Girder		



MEASUREMENTS VERIFIED BY RL BOWERS 9/15/2011

MEASUREMENTS VERIFIED BY RLK 6/4/13

VERIFIED BY RAP 6/8/15

VERIFIED BY R WILLIAMS 6/14/17

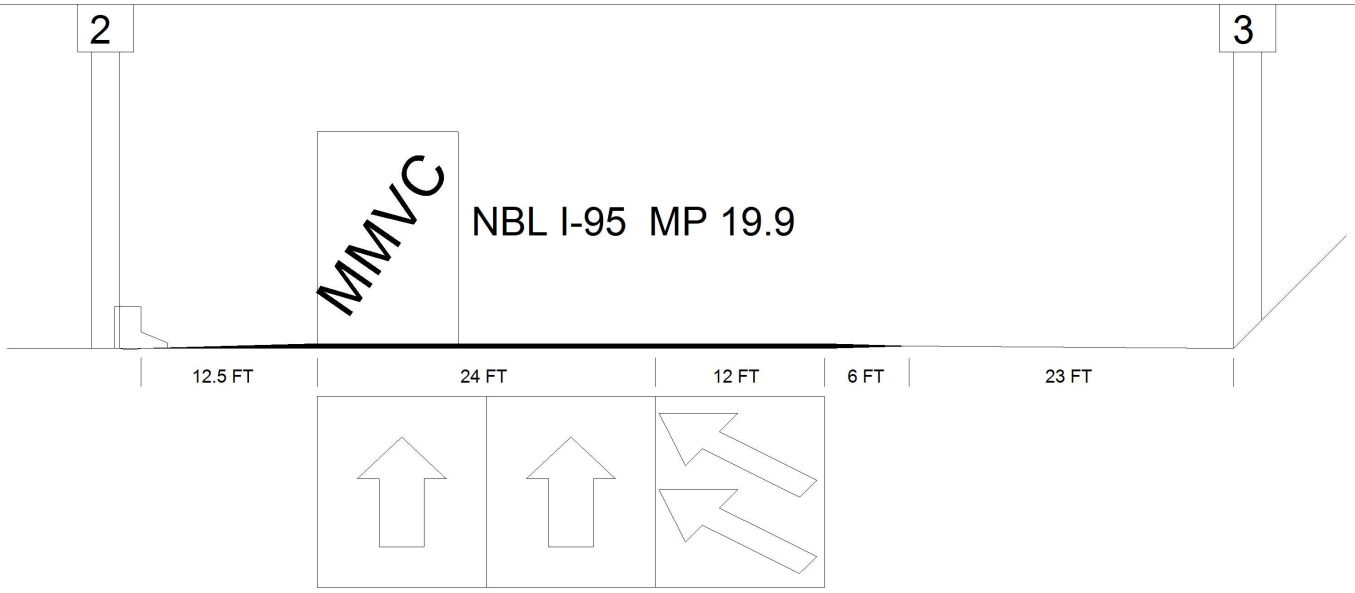
Title	Description
SUPERSTRUCTURE 1	SPANS 2 AND 3

Bridge No:	Drawn By:	Date:	File Name:
770102	RJH	07/16/2006	S0254000029

Bridge Inspection Field Sketch

NC 211

Span 3



Roadway 1		Direction of Traffic	North
Distance to Left Rail	12.5FT	Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	14FT
Distance to Right Toe of Slope	41FT	Distance to Right Bent	42FT
MMVC	18.833 Ft at Beam 12, 10 FT from YELLOW LINE AT BEAM 12		
MVC	17.75 Ft at Beam 12, 0 FT from WHITE LINE AT BM 12		

MEASUREMENTS VERIFIED BY RLK 9/22/09

MEASUREMENTS VERIFIED BY RLK 6/4/13

VERIFIED BY RP 6/8/15

VERIFIED BY R WILLIAMS 6/14/17

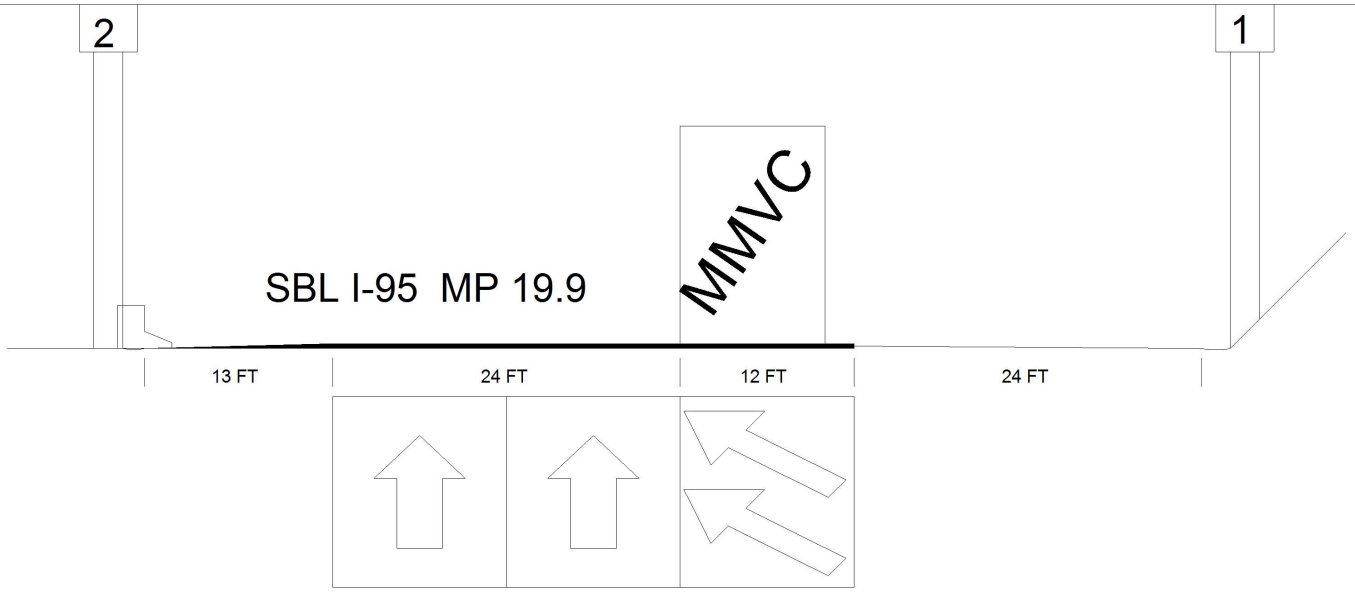
Title	**Description**
NBL CLEARANCE, SPAN 3	NBL I-95

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
770102	RJH	07/16/2006	S0254000030

Bridge Inspection Field Sketch

NC 211

Span 2



Roadway 1		Direction of Traffic	South
Distance to Left Rail	13FT	Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	14.5FT
Distance to Right Toe of Slope	38FT	Distance to Right Bent	40FT
MMVC	20.667 Ft at Beam 12, 0 FT from 10 ' FROM WHITE LINE		
MVC	20.167 Ft at Beam 12, 0 FT from MEASURED AT YELLOW LINE		

MEASUREMENTS VERIFIED BY RLK 9/22/09

MEASUREMENTS VERIFIED BY RDW 9/22/11

MEASUREMENTS VERIFIED BY RLK 6/4/13

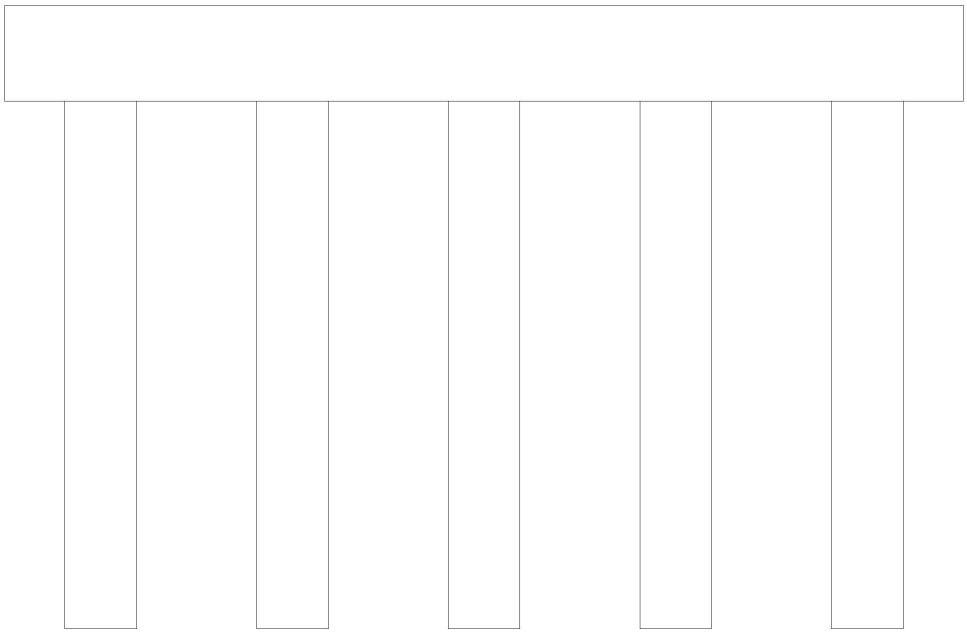
VERIFIED BY RAP 6/8/15

VERIFIED BY R WILLIAMS 6/14/17

Title	**Description**
SBL CLEARANCE, SPAN 2	SBL I-95

Bridge No: 770102	**Drawn By:** RJH	**Date:** 07/16/2006	**File Name:** S0254000031

Bridge Inspection Field Sketch



Bent #	1	Bents 2,3 similar	
Cap - Cast In Place			
Cap Size	4.167ft Long	112ft Wide	4.583ft High
Left Overhang	5ft	Lt Cap/Beam Overhang	2.5ft
Right Overhang	5ft	Rt Cap/Beam Overhang	2.5ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Concrete	Column Pier, Post and Beam	25.5		3		Vertical
2	Concrete	Column Pier, Post and Beam	25.667		3		Vertical
3	Concrete	Column Pier, Post and Beam	25.333		3		Vertical
4	Concrete	Column Pier, Post and Beam	25.5		3		Vertical
5	Concrete	Column Pier, Post and Beam			3		Vertical

MEASUREMENTS VERIFIED BY RL BOWERS 9/15/2011
MEASUREMENTS VERIFIED BY RLK 6/4/13
VERIFIED BY RAP 6/8/15
VERIFIED BY R WILLIAMS 6/14/17

Title	Description
SUBSTRUCTURE	Bents 1,2,3

Bridge No:	Drawn By:	Date:	File Name:
770102	RJH	07/24/2006	S0258004655