

ATTENTION: PRIORITY MAINTENANCE - SPAN 1 BEAM 1;
UPDATES MADE TO APPROACH ROADWAY SKETCH
AND UNDERCLEARANCE SKETCHES

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: ROBESON	STRUCTURE NUMBER: 7	70154	FREQUENCY: 2	24 MONTHS	
FACILITY CARRIED: SR1006			MILE POST:		
LOCATION: 0.1 MI. W. JCT. SR1741					
FEATURE INTERSECTED: 195					
LATITUDE : 34° 47′ 58.94″	LONGITU	IDE : 78° 59' 27.9"			
SUPERSTRUCTURE: REINFORCE) CONCRETE FLOOR O	N PRESTR.CONC.GIRDERS			
SUBSTRUCTURE: E.BTS&I.BTS:RC	CAPS/PPC PILES				
SPANS: 1@41'2";2@54';1@41'2"					
FRACTURE CRITICAL	MPORARY SHORING	SCOUR CRITICAL	SCOUR P	LAN OF ACTION	
PRESENT CONDITION: Fair		INSPECTION DATE: 05/24/	/2017		
POSTED SV: Not Posted		POSTED TTST: Not Pos	sted		
OTHER SIGNS PRESENT: NONE					
			Sign noticed issued for		
			133060 101		Number Required
			NO	WEIGHT LIMIT	
					Required
			NO NO	WEIGHT LIMIT	Required 0
			NO NO NO	WEIGHT LIMIT	Required 0 0
			NO NO NO O	WEIGHT LIMIT DELINEATORS NARROW BRIDGE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			NO NO NO O	WEIGHT LIMIT DELINEATORS NARROW BRIDGE DNE LANE BRIDGE	Required 0 0 0 0 0 0
			NO NO NO O	WEIGHT LIMIT DELINEATORS NARROW BRIDGE DNE LANE BRIDGE LOW CLEARANCE	Required 0 0 0 0 0 0
			NO NO NO NO DIRECT	WEIGHT LIMIT DELINEATORS NARROW BRIDGE DNE LANE BRIDGE LOW CLEARANCE TION OF CTION W-E	Required 0 0 0 0 0 0
LOOKIG EAST			NO NO NO NO NO DIRECT INSPEC	WEIGHT LIMIT DELINEATORS NARROW BRIDGE DNE LANE BRIDGE LOW CLEARANCE TION OF CTION W-E	Required 0 0 0 0 0 0

Structure Element Scoring

Structure Number: 770154 Inspection Date 5/24/2017

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	6362	0	1	6361	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	884	875	4	5	0
215	0	Reinforced Concrete Abutment	Abutments	60	50	0	10	0
226	0	Prestressed Concrete Pile	Piles and Columns	16	16	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	147	142	5	0	0
302	0	Compression Joint Seal	Expansion Joints	96	82	2	12	0
515	316	Steel Protective Coating	Bearing Device	72	0	8	38	26
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	384	382	2	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 770154 Inspection Date: 05/24/2017

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	6409 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	3 Square Feet
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	10 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	2 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	8 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	1 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	5 Feet
3310	Compression Joint Seal	Debris Impaction	12 Feet
3310	Compression Joint Seal	Adjacent Deck or Header	2 Feet
3334	Other Bearings	Corrosion	13 Each
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	72 Square Feet

Element Structure Maintenance Quantities

Structure Number: 770154 Inspection Date 05/24/2017

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	10	60	0	10	0	50
Beam	3306	Maintenance Concrete Superstructure Components	10	884	0	5	4	875
Bearing Device	3342	Clean and Paint Steel	72	72	26	38	8	0
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	384	О	О	2	382
Caps	3348	Maintenance of Concrete Substructure	6	147	О	О	5	142
Deck	3326	Maintenance of Concrete Deck	6412	6362	О	6361	1	0
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	14	96	0	12	2	82
Piles and Columns	3348	Maintenance of Concrete Substructure	0	16	0	0	0	16

Element Condition and Maintenance Data

Structure Number: 770154 Inspection Date: 05/24/2017

n 1	Deck						
	Dook						
nforced Concrete	Deck						
ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinford	ced Concrete Deck	1,376	0	1	1,375	0 S	quare Feet
t r Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
Cracking (RC and Other)				3	1,375	1,375	Square Feet
Delamination/Spall	8" DIAMETER DELAMINATION IN FROM BENT 1	TOP OF DECK 10 I	- Τ.	2	1	1	Square Feet
1	nent nber Reinford t Defect Type Cracking (RC and Other)	The results of the re	ment nber Element Name Qty Reinforced Concrete Deck 1,376 t Defect Type Defect Description Cracking (RC and Other) 1375 SF. OF HAIRLINE MAP CRACKING AND TRANS AND DIAGONAL CRACKING UP TO 1/16" WIDE IN TO DECK Delamination/Spall 8" DIAMETER DELAMINATION IN TOP OF DECK 10 II	ment nber Element Name Qty Qty Reinforced Concrete Deck 1,376 0 t Defect Type Defect Description Cracking (RC and Other) 1375 SF. OF HAIRLINE MAP CRACKING AND TRANSVERSE AND DIAGONAL CRACKING UP TO 1/16" WIDE IN TOP OF DECK Delamination/Spall 8" DIAMETER DELAMINATION IN TOP OF DECK 10 FT.	ment nber Element Name Qty Qty Qty Reinforced Concrete Deck 1,376 0 1 t Defect Type Defect Description CS Cracking (RC and Other) 1375 SF. OF HAIRLINE MAP CRACKING AND TRANSVERSE AND DIAGONAL CRACKING UP TO 1/16" WIDE IN TOP OF DECK Delamination/Spall 8" DIAMETER DELAMINATION IN TOP OF DECK 10 FT. 2	ment higher Element Name Qty	ment nber Element Name Qty

Span '	1	Beam 1						
Prestr	essed Concret	e Girder						
Elemei Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestre	ssed Concrete Open Girder/Beam	43	42	0	1	0 Feet	
Element Number	Defect Type	Defect Descripti	ion		cs	CS Qty	Maint Qty	
109 D	elamination/Spall	7" X 5" X 2" DEEP SPALL WITH EXPO BOTTOM FLANGE NORTH FACE AT I		IN	3	1	1 Feet	

Spa	an 1	Near Beari	ng					
Oth	ner Bearing							
	ement mber Steel Pi	Element Name rotective Coating	Total Qty 2	CS1 Qty 0	CS2 Qty 0	CS3 Qty 2	CS4 Qty 0	Square Feet
Eleme Numb	Dofoot Tyme	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2	:	2 Square Feet
	General Comments							

Spa	n 1	Far Bearin	g					
Othe	er Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Element Number	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2	:	2 Square Feet
-	General Comments							

Spa	an 1			Near Bearing						
Oth	er B	earing								
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515		Steel Pro	tective Coating		2	0	2	0	0	Square Feet
Eleme		Defect Type		Defect Description			cs	CS Qty	Maint Qty	
316	Cor	rosion	FRECKLED RUST				2	1		Each
515		ectiveness (Steel tective Coatings)	2 SF. OF LIMITED COATING	EFFECTIVENESS OF P	ROTECTIVE		2	2	:	2 Square Feet
	Gene	eral Comments								

Spa	an 1			Far Bearing						
Oth	er Bearing									
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515		Steel Pr	otective Coating		2	0	0	2	0	Square Feet
Elemer Numbe	Dofoot	Туре		Defect Description	1		cs	CS Qty	Maint Qty	
316	Corrosion		SURFACE CORRO	SION			2	1		Each
515	Effectivenes Protective C		2 SF. OF INEFFEC	TIVE PROTECTIVE C	OATING		3	2	2	2 Square Feet
	General Con	ments								

Spa	an 1	Near Bearin	g					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pro	otective Coating	2	0	2	0	0	Square Feet
Elemei Numbe	Dofoct Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
316	Corrosion	FRECKLED RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENES	S PROTECTIVE C	OATING	2	2	2	2 Square Feet

n 1 er Bearing	Far Bearing	I					
ment nber Steel Pro	Element Name otective Coating	Total Qty 2	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty	Square Feet
t r Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
Corrosion	1/4" OF PACK RUST			3	1	1	Each
Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	IVE COATING		4	2	2	Square Feet
	er Bearing nent hber Steel Pro t Defect Type Corrosion Effectiveness (Steel	rer Bearing The steel Protective Coating The steel Protective Co	rer Bearing Total Act Steel Protective Coating 2 Total Act Qty Steel Protective Coating 2 Total Act Qty Steel Protective Coating 2 Total Qty Steel Protective Coating 2 Total Qty Steel Protective Coating 2	rer Bearing Total CS1 Reference Name Qty Qty Steel Protective Coating 2 0 Total CS1 Qty Qty Steel Protective Coating 2 0 Defect Type Defect Description Corrosion 1/4" OF PACK RUST Effectiveness (Steel 2 SF. OF INEFFECTIVE PROTECTIVE COATING	rer Bearing Total CS1 CS2 Ott Steel Protective Coating 2 0 0 Total CS1 CS2 Ott	rer Bearing Total CS1 CS2 CS3 Qty Steel Protective Coating 2 0 0 0 0 The corrosion 1/4" OF PACK RUST 3 1 Effectiveness (Steel 2 SF. OF INEFFECTIVE PROTECTIVE COATING 4 2	rer Bearing Total CS1 CS2 CS3 CS4 Qty

Spa	an 1	Near Bearin	Near Bearing						
Oth	er Bearing								
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
515	Steel Pr	otective Coating	2	0	0	2	0 \$	Square Feet	
Elemer Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty		
316	Corrosion	SURFACE CORROSION			2	1		Each	
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	TIVE COATING		3	2	2	Square Feet	
	General Comments								

Spa	ın 1	Far Beari	earing						
Oth	er Bearing								
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
515	Steel Pr	rotective Coating	2	0	0	2	0	Square Feet	
Elemen Numbe	Dofoot Typo	Defect De	scription		CS	CS Qty	Maint Qty		
316	Corrosion	SURFACE CORROSION			2	1		Each	
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTE	CTIVE COATING		3	2	2	2 Square Feet	
•	General Comments								

Spa	an 2		Expansi	on Joint					
Co	mpre	ssion Seal							
	ement imber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302		Compr	ession Joint Seal	32	24	2	6	0	Feet
Eleme Numbe		Defect Type	Defect De	escription		cs	CS Qty	Maint Qty	
302	Deb	ris Impaction	6 FT. OF DEBRIS IMPACTION			3	6	6	Feet .
302	Adja Hea	acent Deck or der	2 - 8" DIAGONAL CRACKS 1/1	6" WIDE IN HEADER		2	2	2	? Feet
	Gene	ral Comments							

Sp	an 2	Deck						
Re	inforced Concrete	Deck						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,805	0	0	1,805	0 S	quare Feet
Eleme Numb	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
12	Cracking (RC and Other)	1803 SF. OF HAIRLINE MAP CRA AND DIAGONAL CRACKING UP T DECK			3	1,803	1,803	Square Feet
12	Delamination/Spall	20" X 12" X 1/2" DEEP SPALL WIT TOP OF DECK AT BENT 1	TH EXPOSED REBA	R IN	3	2	2	Square Feet
12	Cracking (RC and Other)	50 SF. OF TRANSVERSE HAIRLING EFFLORESCENCE IN BOTTOM C		1	2		50	Square Feet
	General Comments							

Structure Number: 770154 Inspection Date: <u>05/24/2017</u>

Spai	n 2	Beam 1						
Pres	tressed Concret	e Girder						
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestre	ssed Concrete Open Girder/Beam	54	53	1	0	0 Feet	
lement lumber	Dofoot Typo	Defect Descripti	ion		cs	CS Qty	Maint Qty	
109	Delamination/Spall	7" X 3" DELAMINATION IN WEB NOR	TH FACE AT BE	NT 2	2	1	1 Feet	
-	General Comments							

Pres	tressed Concret	e Girder						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestre	ssed Concrete Open Girder/Beam	54	52	1	1	0	Feet
Element Number	Dofoct Type	Defect Descript	ion		cs	CS Qty	Maint Qty	
109	Delamination/Spall	3" X 7" X 1/2" DEEP SPALL WITH EXF BOTTOM FACE AT BENT 2	POSED REBAR	IN	3	1	1	Feet
109	Delamination/Spall	7" X 3" DELAMINATION IN WEB SOU	TH FACE AT BE	NT 2	2	1	1	Feet

Span 2	2	Beam 4						
Prestr	essed Concret	e Girder						
Eleme		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestre	ssed Concrete Open Girder/Beam	54	53	0	1	0 Fe	eet
Element Number	Defect Type	Defect Descript	ion		cs	CS Qty	Maint Qty	
109 D	elamination/Spall	14" X 7" X 2" DEEP SPALL IN END OF	F BEAM AT BEN	IT 1	3	1	2	Feet

Spa	n 2	Beam 5						
Pres	stressed Concret	e Girder						
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestre	ssed Concrete Open Girder/Beam	54	53	1	0	0 Feet	
Elemen Numbe	Dofoot Typo	Defect Descripti	on		cs	CS Qty	Maint Qty	
109	Delamination/Spall	3" X 5" X 1" DEEP SPALL IN WEB NOF	RTH FACE AT E	BENT 2	2	1	1 Feet	
-	General Comments							

Span 2		Right Bridge	e Rail					
Concret	e Railing							
Element Number	Elem	ent Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concret	e Bridge Railing	54	53	1	0	0 Feet	
lement lumber	Defect Type	Defect Descri	iption		CS	CS Qtv	Maint Qtv	

Cracking (RC and

Other)

2 18" TRANSVERSE HAIRLINE CRACK IN CURB Feet

General Comments

Spa	ın 2	Near Beari	Near Bearing						
Oth	er Bearing								
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
515	Steel Pro	otective Coating	2	0	0	2	0 :	Square Feet	
Elemen Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty		
316	Corrosion	SURFACE CORROSION			2	1		Each	
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2	2	Square Feet	

General Comments

Spa	an 2	Far Bearing	3					
Oth	ner Bearing							
	ment mber Steel Pi	Element Name rotective Coating	Total Qty 2	CS1 Qty 0	CS2 Qty 0	CS3 Qty 2	CS4 Qty	Square Feet
Elemei Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	TIVE COATING		3	2		2 Square Feet
	General Comments							

Spa	an 2	Near Beari	ing					
Oth	ner Bearing							
	ement mber Steel	Element Name Protective Coating	Total Qty 2	CS1 Qty 0	CS2 Qty 0	CS3 Qty 2	CS4 Qty 0	Square Feet
Eleme	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Stee Protective Coatings		TIVE COATING		3	2	:	2 Square Feet
	General Comments							

Span 2 **Far Bearing Other Bearing Element** Total CS1 CS2 CS3 CS4 **Element Name** Number Qty Qty Qty Qty Qty 515 Steel Protective Coating 2 0 0 0 2 Square Feet Element Maint **Defect Type** CS CS Qty **Defect Description** Number Qty 316 Corrosion 1/4" OF PACK RUST 3 1 1 Each 515 Effectiveness (Steel 2 SF. OF INEFFECTIVE PROTECTIVE COATING 4 2 2 Square Feet Protective Coatings)

Spa	ın 2	Near Beari	ng					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	rotective Coating	2	0	0	2	0	Square Feet
Elemer Numbe	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2	2	2 Square Feet
	General Comments							

Spa	an 2	Far Bearing	g					
Oth	ner Bearing							
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel P	rotective Coating	2	0	0	2	0	Square Feet
Eleme	Dofoot Typo	Defect Desc	ription		CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2	2	2 Square Feet
	General Comments							

Spa	an 2	Near Beari	ing					
Oth	ner Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel P	rotective Coating	2	0	0	2	0	Square Feet
Eleme	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2		2 Square Feet
	General Comments							

_								
Spa	an 2	Far Bearin	g					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	rotective Coating	2	0	0	2	0	Square Feet
Elemer	Defeat Tyme	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2	2	2 Square Feet
	General Comments							

Spa	Span 2		g					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Elemen Numbe	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
316 515	Corrosion Effectiveness (Steel Protective Coatings)	SURFACE CORROSION 2 SF. OF INEFFECTIVE PROTECTI	VE COATING		2	1 2	2	Each 2 Square Feet

Spa	Span 2 F		g					
Oth	er Bearing							
Eler Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel P	rotective Coating	2	0	0	0	2	Square Feet
Elemen Numbe	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		4	2	:	2 Square Feet
-	General Comments							

Span	3	Deck						
Reinf	forced Concrete	Deck						
Eleme Numb		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,805	0	0	1,805	0 8	Square Feet
lement lumber	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
	Cracking (RC and Other)	1805 SF. OF HAIRLINE MAP CRA AND DIAGONAL CRACKING UP T DECK			3	1,805	1,805	Square Feet
G	eneral Comments							_

Spa	an 3	Beam 1						
Pre	stressed Concret	e Girder						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestre	ssed Concrete Open Girder/Beam	54	53	1	0	0 Feet	
Eleme Numb	Dofoot Typo	Defect Descriptio	n		cs	CS Qty	Maint Qty	
109	Delamination/Spall	7" X 3" DELAMINATION IN WEB NORTH	H FACE AT BE	NT 2	2	1	1 Fee	∍t
	General Comments							

Spa	an 3	Beam 4						
Pre	estressed Concret	e Girder						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestre	ssed Concrete Open Girder/Beam	54	53	0	1	0 Feet	
Eleme Numb	Dofoot Typo	Defect Description	on		cs	CS Qty	Maint Qty	
109	Delamination/Spall	10" DIAMETER X 1/2" DEEP SPALL IN TIE-DOWN POINT NEAR MIDSPAN	BOTTOM FAC	E AT	3	1	1 Feet	
	General Comments							_

Spar	n 3	Beam 5						
Pres	tressed Concrete	e Girder						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestres	ssed Concrete Open Girder/Beam	54	53	0	1	0 Feet	
Element Number	Dofoct Typo	Defect Descripti	ion		cs	CS Qty	Maint Qty	
109	Delamination/Spall	8" DIAMETER X 1/2" DEEP SPALL IN DOWN POINT NEAR MIDSPAN	BOTTOM FACE	AT TIE-	3	1	1 Feet	
(General Comments							_

Span 3			Expansion Joint						
Compre	ssion Seal								
Element Number		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compre	ession Joint Seal		32	26	0	6	0 Feet	
Element Number	Defect Type		Defect Description			cs	CS Qty	Maint Qty	
302 Deb	ris Impaction	6 FT. OF DEBRIS I	MPACTION			3	6	6 Feet	

Spa	ın 3	Right Bridge	e Rail					
Cor	crete Railing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfo	rced Concrete Bridge Railing	54	53	1	0	0	Feet
lemer lumbe	Dofoot Typo	Defect Descri	iption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	18" TRANSVERSE HAIRLINE CRAC	CK IN CURB		2	1		Feet
	General Comments							

Span 3		Near Bearing						
Other B	earing							
Element Number	Element Nar	ne	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Protective Coating		2	0	0	2	0	Square Feet
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure Number: 770154

316 Corrosion SURFACE CORROSION 2 1 Each

515 Effectiveness (Steel Protective Coatings)

2 SF. OF INEFFECTIVE PROTECTIVE COATING 3 2 2 Square Feet

Spa	an 3	Far Bearing						
Oth	ner Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Eleme	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTI	VE COATING		4	2	2	2 Square Feet
	General Comments							

Spa	n 3	Near Bearir	ng					
Oth	er Bearing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel P	rotective Coating	2	0	0	2	0	Square Feet
Elemen Numbe	Dofoot Typo	Defect Descr	ription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	IVE COATING		3	2	:	2 Square Feet
-	General Comments							

Spa	n 3	Far Bearing	1					
Oth	er Bearing							
Eler Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	rotective Coating	2	0	0	2	0	Square Feet
Elemen Numbe	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	TIVE COATING		3	2		2 Square Feet
-	General Comments							

Spar Othe	n 3 er Bearing	Near Beari	ng				
Elem Num	ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Pr	otective Coating	2	0	0	2	0 Square Feet
Element Number	Defeat Type	Defect Des	cription		cs	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION			2	1	Each
	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2	2 Square Feet

General Comments

Spa	an 3	Far Bearing)					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemer	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	TIVE COATING		4	2	;	2 Square Feet

Spa	n 3	Near Beari	ing				
Oth	er Bearing						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Pr	otective Coating	2	0	0	2	0 Square Feet
Elemen Numbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION			2	1	Each
515	Effectiveness (Steel	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		3	2	2 Square Feet

Spa Othe	n 3 er Bearing	Far Bearin	ng					
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemen Numbei	Defeat Type	Defect Des	scription		cs	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		4	2	:	2 Square Feet

Spai	n 3	Near Beari	ng					
Othe	er Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Element Number	Dofoot Typo	Defect Desc	ription		CS	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	TIVE COATING		4	2	2	Square Feet

General Comments

General Comments

Spa	an 3	Far Bearing	9					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	rotective Coating	2	0	0	0	2	Square Feet
Eleme	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		4	2	2	Square Feet
	General Comments							

Spai	n 4	Deck						
Rein	forced Concrete	Deck						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,376	0	0	1,376	0 8	Square Feet
lement lumber	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
12	12 Cracking (RC and Other) 1376 SF. OF HAIRLINE MAP OF AND DIAGONAL CRACKING DECK				3	1,376	1,376	Square Feet
(General Comments							-

Spa	an 4	Near Bearin	ıg					
Oth	ner Bearing							
	ement mber Steel Pi	Element Name rotective Coating	Total Qty 2	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty 2	Square Feet
Eleme Numbe	Dofoot Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1		I Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	IVE COATING		4	2	2	2 Square Feet
	General Comments							

Spa	ın 4	Far Bearing	J					
Oth	er Bearing							
	ment nber Steel Pr	Element Name rotective Coating	Total Qty 2	CS1 Qty 0	CS2 Qty 0	CS3 Qty 2	CS4 Qty 0	Square Feet
Elemer Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	5 Effectiveness (Steel 2 SF. OF INEFFECTIVE PI Protective Coatings)		TIVE COATING		3	2	2	2 Square Feet
	General Comments							

Spa	n 4	Near Bearing						
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pro	otective Coating	2	0	0	0	2	Square Feet
Elemen Numbe	Defeat Type	Defect Descrip	otion		cs	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1		1 Each
EAE	Effectiveness (Steel	2 SF. OF INEFFECTIVE PROTECTIV	E COATING		4	2	2	2 Square Feet
515	Protective Coatings)							

Spa	Span 4			Far Bearing						
Oth	er B	Bearing								
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515				2	0	2	0	0	Square Feet	
Elemei Numbe		Defect Type		Defect Description			CS	CS Qty	Maint Qty	
316	Cor	rosion	FRECKLED RUST				2	1		Each
515	515 Effectiveness (Stee Protective Coatings		2 SF. OF LIMITED I COATING	EFFECTIVENESS OF P	ROTECTIVE		2	2	2	2 Square Feet
	Gene	eral Comments								

Spa	an 4	Near Bear	ing					
Oth	ner Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Ste	el Protective Coating	2	0	0	0	2	Square Feet
Eleme	Dofoot Type	e Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1		1 Each
515	Effectiveness (Sto Protective Coatin		TIVE COATING		4	2	:	2 Square Feet
	General Commen	ts						

n 4 er Bearing	Far Bearing	I					
nent Iber Steel Pro	Element Name	Total Qty 2	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Square Feet
Defect Type		ription		cs	CS Qty	Maint Qty	
Corrosion	FRECKLED RUST			2	1		Each
Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENES	SS OF PROTECTIVE		2	2	2	Square Feet
	Per Bearing Steel Pro Defect Type Corrosion Effectiveness (Steel	Per Bearing Tent ber Element Name Steel Protective Coating Defect Type Defect Description Corrosion FRECKLED RUST Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENES)	r Bearing tent Element Name Qty Steel Protective Coating 2 Defect Type Defect Description Corrosion FRECKLED RUST Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE	r Bearing tent Element Name Qty Qty Steel Protective Coating 2 0 Defect Type Defect Description Corrosion FRECKLED RUST Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE	r Bearing tent Element Name Qty Qty Qty Steel Protective Coating 2 0 2 Defect Type Defect Description CS Corrosion FRECKLED RUST 2 Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE 2	r Bearing tent ber Element Name Qty Qty Qty Qty Qty Steel Protective Coating 2 0 2 0 Defect Type Defect Description CS CS Qty Corrosion FRECKLED RUST 2 1 Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE 2 2	r Bearing tent ber Element Name Qty

Spa	n 4	Near Bearing	1					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemen Numbe	Dofoot Typo	Defect Descrip	otion		cs	CS Qty	Maint Qty	
316	Corrosion	1/4" OF PACK RUST			3	1	1	Each
515	Effectiveness (Steel	2 SF. OF INEFFECTIVE PROTECTIV	/E COATING		4	2	2	2 Square Feet
	Protective Coatings)							

Spa	n 4	Far Bearii	ng					
Othe	er Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515	Steel Pr	rotective Coating	2	0	0	0	2	Square Feet
Element Number	Dofoot Typo	Defect Des	scription		CS	CS Qty	Maint Qty	
316	Corrosion	1/8" OF PACK RUST			3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTE	CTIVE COATING		4	2	2	2 Square Feet
	General Comments							

End	End Bent 1 Reinforced Concrete Abutment 1								
Rei	nforced Concrete	Abutment							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
215	Reinfor	30	28	0	2	0 Feet			
Elemen Numbe	Dofoct Typo	Defect Descr	ription		cs	CS Qty	Maint Qty		
215	Delamination/Spall	2 - SPALLS UP TO 12" X 4" X 1/2"	DEEP AT NORTH E	END	3	2	2 Feet		
	General Comments							_	

End	l Bent 1	Reinforce	d Concrete Pier	Cap 1				
Rei	nforced Concrete	Pier Cap						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfo	rced Concrete Pier Cap	30	28	2	0	0 Fe	et
Elemer Numbe	Dofoct Typo	Defect Des	cription		CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK EXTENDING INTO TOP OF CAP			2	1	1	Feet
234	Cracking (RC and Other)	6" VERTICAL HAIRLINE CRACK	UNDER BAY 1		2	1	1	Feet
	General Comments							

End	d Bent 2	Reinforced	Concrete Abutn	nent 1				
Rei	inforced Concrete	e Abutment						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinfo	orced Concrete Abutment	30	22	0	8	0 F	-eet
Eleme	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
215	Cracking (RC and Other)	3 SF. OF HAIRLINE MAP CRACKI	NG AT NORTH END		3	3	3	Feet
215	Cracking (RC and Other)	5 SF. OF HAIRLINE MAP CRACKI	NG IN BAY 3		3	5	5	Feet
	General Comments							

Bent 2 Reinforced Concrete Pier Cap 1								
Rein	forced Concrete	Pier Cap						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	234 Reinforced Concrete Pier Cap		29	26	3	0	0 1	Feet
Element Number	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	2 - 18" HORIZONTAL HAIRLINE (SOUTH END	CRACK IN WEST FA	CE AT	2	2	3	Feet .
234	Exposed Rebar	4" DIAMETER X 1/2" DEEP SPAL IN WEST FACE UNDER BEAM 4		REBAR	2	1	1	Feet

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1376
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	42
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	42
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1805
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 2	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 2	Expansion Joint	Compression Seal	Compression Joint Seal	32
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1805
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 3	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	54
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 3	Expansion Joint	Compression Seal	Compression Joint Seal	32
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1376
Span 4	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 4	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 4	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 4	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	42
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	42
Span 4	Expansion Joint	Compression Seal	Compression Joint Seal	32
Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 1		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
End Bent 1		Reinforced Concrete Abutment	Reinforced Concrete Abutment	30
Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 2		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2		Prestressed Concrete Pile	Prestressed Concrete Pile	1

Elements Verfied

Location	Location Name Component		Element Name	Amount
Bent 2		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2		Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
End Bent 2		Reinforced Concrete Abutment	Reinforced Concrete Abutment	30
Bent 3		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 3		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3		Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3		Prestressed Concrete Pile	Prestressed Concrete Pile	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 770154 Inspection Date: 05/24/2017

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	6
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	F	6360	3376
Drainage System	G, F, P, or C	F	6360	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	14		
Superstructure Paint Code				

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

Inspection Information

ltem	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Υ
Inspection Time	Hours	12
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Υ
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: 770154 Inspection Date: 05/24/2017

Item	Priority Maintenance Issued	Grade Y	Maint Code	Qty. 0		
Details	Details Span 1 Beam 1: 7" X 5" X 2" DEEP SPALL WITH EXPOSED STRANDS IN BOTTOM FLANGE NORTH FACE AT BENT 1 (PM)					
Item	Deck Debris	Grade F	Maint Code 3376	Qty. 6360		
Details DEBRIS ALONG NORTH AND SOUTH CURB						
Item	Drainage System	Grade F	Maint Code 3332	Qty. 6360		

Details PONDING WATER ALONG NORTH AND SOUTH CURB



Span 1 Deck: 1376 SF. OF HAIRLINE MAP CRACKING AND TRANSVERSE AND DIAGONAL CRACKING UP TO 1/16" WIDE IN TOP OF DECK



Expansion Joint: 6 FT. OF DEBRIS IMPACTION



Span 2 Deck: 20" X 12" X 1/2" DEEP SPALL WITH EXPOSED REBAR IN TOP OF DECK AT BENT 1



PONDING WATER ALONG NORTH AND SOUTH CURB



DEBRIS ALONG SOUTH CURB



End Bent 1 Abutment/Backwall : 2 - SPALLS UP TO 12" X 4" X 1/2" DEEP AT NORTH END



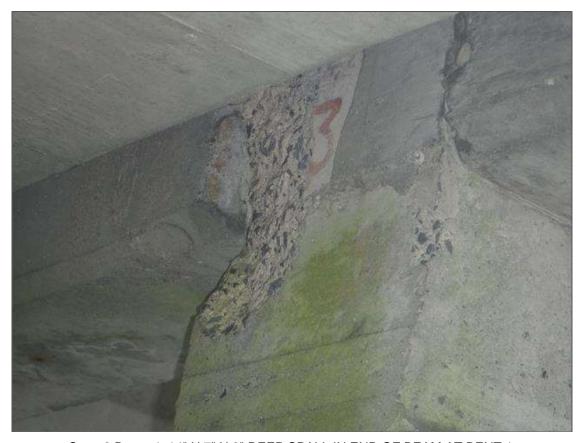
Span 1 Beam 1 Near Bearing: SURFACE CORROSION



Span 1 Beam 1: 7" X 5" X 2" DEEP SPALL WITH EXPOSED STRANDS IN BOTTOM FLANGE NORTH FACE AT BENT 1 (PM)



Span 1 Beam 3 Far Bearing: 1/4" OF PACK RUST



Span 2 Beam 4: 14" X 7" X 2" DEEP SPALL IN END OF BEAM AT BENT 1



Span 2 Beam 3: 7" X 3" DELAMINATION IN WEB SOUTH FACE AT BENT 2



Span 2 Beam 3: 3" X 7" X 1/2" DEEP SPALL WITH EXPOSED REBAR IN BOTTOM FACE AT BENT 2



Span 3 Beam 4: 10" DIAMETER X 1/2" DEEP SPALL IN BOTTOM FACE AT TIE-DOWN POINT NEAR MIDSPAN



LOOKIG EAST



TYPICAL GUARDRAIL TO BRIDGE RAIL TRANSITION, SOUTHWEST CORNER SHOWN



SOUTH BRIDGE RAIL, NORTH BRIDGE RAIL SIMILAR



JOINT AT BENT 1, BENTS 2 AND 3 SIMILAR



LOOKING SOUTH



LOOKING NORTH



TYPICAL GUARDRAIL END TREATMENT, SOUTHEAST CORNER SHOWN



LOOKING WEST



END BENT 1



BENT 1, BENT 3 SIMILAR



LADDER USED DURING INSPECTION



TYPICAL BEARING, BEAM 2 AT BENT 1 SHOWN



BENT 2



SPAN 2 SUPERSTRUCTURE, SPAN 3 SIMILAR



SPAN 4 SUPERSTRUCTURE, SPAN 1 SIMILAR



END BENT 2



SPAN 3 UNDERCLEARANCE LOOKING NORTH



SOUTH PROFILE



SPAN 2 UNDERCLEARANCE LOOKING SOUTH



NORTH PROFILE

NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 09/28/2017

IDENTIFICATION -			
(1) STATE NAME -NORTH CAROLINA BRIDGE	770154	SUFFICIENCY RATING =	84.13
(8) STRUCTURE NUMBER(FEDERAL) 000	000001550154	STATUS = Not Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31010060		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		CODE
(3) COUNTY CODE 155 (4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - 195		(104)HIGHWAY SYSTEM Is not on NHS	C
(7) FACILITY CARRIED SR1006		(26) FUNCTIONAL CLASS - Major Collector	07
(9) LOCATION 0.1 MI. W. JCT. SR1741		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 34° 47' 58.94" (17)LONG 78° 59' 27	7.90"	(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHA	RE	(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	0
		(20) TOLL On Free Road	3
STRUCTURE TYPE AND MATERIAL —		(31) MAINTAIN - State Highway Agency	01
(43) STRUCTURE TYPE MAIN: Prestressed Concrete		(22) OWNER - State Highway Agency	01
TYPE - Stringer Mutlibeam or Girder	CODE 502	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :		•	
TYPE -	CODE 000	CONDITION	CODE
(45) NUMBER OF SPANS IN MAIN UNIT	4	(58) DECK	5
(46) NUMBER OF APPROACH SPANS		(59) SUPERSTRUCTURE	6
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	6
(108)WEARING SURFACE / PROTECTIVE SYSTEM:	0022	(61) CHANNEL & CHANNEL PROTECTION	N
(A) TYPE OF WEARING SURFACE -	CODE	(62) CULVERTS	 N
(B) TYPE OF MEMBRANE -	CODE	` '	
(C) TYPE OF DECK PROTECTION -	CODE	LOAD RATING AND POSTING —	
(o) THE OF BEOKEROTEONON	0022	(31) DESIGN LOAD HS 15	3
AGE AND SERVICE -	_	(63) OPERATING RATING METHOD - Load Factor	1
(27) YEAR BUILT	1959	(64) OPERATING RATING - HS-52	93
(106)YEAR RECONSTRUCTED	1000	(65) INVENTORY RATING METHOD - Load Factor	1
(42) TYPE OF SERVICE : ON - Highway		(66) INVENTORY RATING - HS-24	43
	CODE 11	(70) BRIDGE POSTING - No Posting Required	5
UNDER - Highway (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	4	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	Α
	2600	DESCRIPTION - Open, No Restriction	CODE
(29) AVERAGE DAILY TRAFFIC		-	CODE
(30) YEAR OF ADT 2014 (109) TRUCK ADT PCT	7%	(67) STRUCTURAL EVALUATION	6
(19) BYPASS OR DETOUR LENGTH	6 MI	(68) DECK GEOMETRY	4
GEOMETRIC DATA	50 FT	(69) UNDERCLEARANCES, VERTI & HORIZ	4
(48) LENGTH OF MAXIMUM SPAN	52 FT	(71) WATERWAY ADEQUACY	N
(49) STRUCTURE LENGTH	190 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT 1.7085 FT RIGHT	1.7085 FT	(36) TRAFFIC SAFETY FEATURES	0010
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	28 FT	(113)SCOUR CRITICAL BRIDGES	N
(52) DECK WIDTH OUT TO OUT	33.417 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	23 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 0° (35) STRUCTURE FLARED	-	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	28 FT	(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR REF Highway	999.9 FT 16.1 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE (114)FUTURE ADT 5200 (115) YEAR FUTURE ADT	2025
		(114)FUTURE ADT 5200 (115) YEAR FUTURE ADT	2025
(54) MIN VERT UNDERCLEAR REF Highway	16.1 FT	(114)FUTURE ADT 5200 (115) YEAR FUTURE ADT INSPECTIONS	
(54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF -	16.1 FT 10.75 FT	(114)FUTURE ADT 5200 (115) YEAR FUTURE ADT INSPECTIONS (90) INSPECTION DATE	
(54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF - NAVIGATION DATA	16.1 FT 10.75 FT 17 FT	(114)FUTURE ADT 5200 (115) YEAR FUTURE ADT INSPECTIONS (90) INSPECTION DATE (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE	
(54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF - NAVIGATION DATA (38) NAVIGATION CONTROL - Not Applicable	16.1 FT 10.75 FT 17 FT CODE N	(114)FUTURE ADT 5200 (115) YEAR FUTURE ADT INSPECTIONS (90) INSPECTION DATE 09 (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE A) FRACTURE CRIT DETAIL - NO A)	
(54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF - NAVIGATION DATA (38) NAVIGATION CONTROL - Not Applicable (111) PIER PROTECTION -	16.1 FT 10.75 FT 17 FT CODE N CODE	(114)FUTURE ADT 5200 (115) YEAR FUTURE ADT INSPECTIONS (90) INSPECTION DATE (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE	2025 5/24/2017
(54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF - NAVIGATION DATA (38) NAVIGATION CONTROL - Not Applicable	16.1 FT 10.75 FT 17 FT CODE N	(114)FUTURE ADT 5200 (115) YEAR FUTURE ADT INSPECTIONS (90) INSPECTION DATE 09 (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE A) FRACTURE CRIT DETAIL - NO A)	

Structure No:	770154	County:	ROBESON	Run Date:

			rtical					on			Fraffic	nce	S	See Not	e 1					Route
Span Number	Feature Intersected	Inventory Route	Minimum Maximum Ve Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classificatio	Numer of Lanes	Average Daily Traffic	Year of Average Daily	Total Horizontal Clearan	Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway	Direction of Traffic	Highway System of Ro
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I95S	11000950	16.2	30.50	1	10095		1	2	23000	2013	48.08	Н	16.1	10.75	16.83	9	1	1	1
3	195N	11000950	16.3	30.50	1	10095		1	2	23000	2015	48.25	Н	16.1	10.75	17	9	1	1	1

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 09/28/2017

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH:

ROBESON 6 1 770154 190 FEET

ROUTE CARRIED : FEATURE INTERSECTED :

SR1006 195

LOCATED: BRIDGE NAME:

0.1 MI. W. JCT. SR1741 CITY:

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:

07 FA NFA 2600 2014 LT 111 RT 111

BUILT: BY: PROJ: FED.AID PROJ: DESIGN LOAD:

1959 SHC 8.13972 HS 15

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:

TAN

90

2

ON

UNDER

4

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON PRESTR.CONC.GIRDERS

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

SPANS: 1@41'2";2@54';1@41'2"

BEAMS OR GIRDERS: SPN.1&4:4 LNS PPC GDRS.;SPNS.2&3:5 LNS.PPC GIRDERS

FLOOR: ENCROACHMENT: DECK (OUT TO OUT):

7.5" RC/NO 33.417 FT

AWS

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

28 FT 31.417 FT LT 1.7085 RT 1.7085

FT FT

VERT.CL.OVER :

999.9 FT

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-24 HS-52 int.gdrB SV TTST DATE

SYSTEM: GREEN LINE ROUTE:

Primary S.R. Route N

UNDER ROUTES AND CLEARANCES

		Vertical Clearances		Horizo	ntal Clear	rances
Span	Route Description	MMVC	MVC	Total	Left	Right
2	I95S	16.20	16.10	48.0830	16.8330	10.75
3	195N	16.30	16.10	48.25	17	10.75

Note: All measurements are in feet.

REMARKS:

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770154 County ROBESON Date: 05/24/2017

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3306	Maintain Concrete Superstructure Components	SF	1	Span 1 Beam 1: 7" X 5" X 2" DEEP SPALL WITH EXPOSED STRANDS IN BOTTOM FLANGE NORTH FACE AT BENT 1 (PM)	





BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

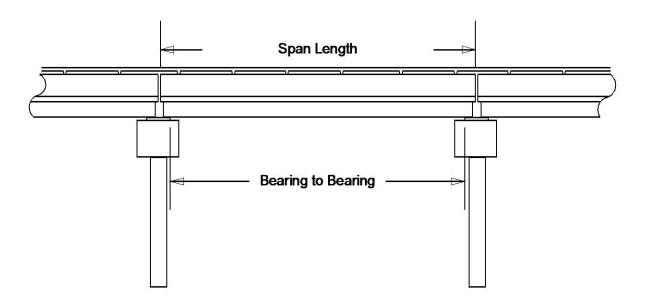
Bridge: 770154 County ROBESON

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

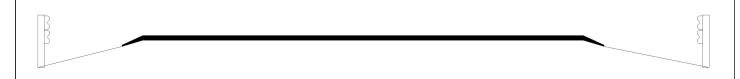
MMS Code	MN	//S Descrip	Quantity					
3306	Maii	ntain Cond	1	SF				
Location:	Location:							
	Bent/Span No.							
Priority Level Status			Status					
Recommended F			outine Maintenance					
Submitted D	ate:	Submitte	d By:	Assisted By:				
05/24/2017		MATTH	EW MOYER					
Details								
Span 1 Bear BENT 1 (PM		" X 5" X 2'	' DEEP SPALL WITH EXPOSED S	TRANDS IN BOTTOM FLANGE NO	RTH FACE	AT		

Structure Data Worksheet

County: ROBESON Structure No: 770154 Date: 05/24/2017 Inspected By: MJM



Span No	Span Length	Bearing to Bearing	Comments
1	41.167	39.0	NBIS BRIDGE LENGTH = 185.333'
2	54.0 FT.	52.0	MEASUREMENTS VERIFIED 5/24/2017 BY MJM
3	54.0 FT.	52.0	
4	41.167 FT.	39.0	



Roadway	21ft Wide	2 Paved Lanes	Looking East
Left Shoulder	5ft Wide	1ft Paved	4ft Unpaved
Right Shoulder	6ft Wide	1ft Paved	5ft Unpaved
Left Guardrail	5ft from road		
Right Guardrail	6ft from road		

MEASUREMENTS UPDATED 5/24/2017 BY MJM

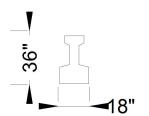
Title			Description					
APPROACH ROADWAY			LOOKING EAST					
Bridge No: 770154	Drawn By: RBH		Date: _{12/12/07}	File Name:S0098000577				

Deck Width/Out to Out	33.417ft	Betwee	en Rails			31.417ft
Clear Roadway	ar Roadway 28ft		Wearing Surface			
Median Width		Mediar	n Height			
Curb Height		Left	0.833ft	Right	0.83	33ft
Sidewalk Width	Sidewalk Width			Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	1ft	Right	1ft	
Top of Rail to Deck/Wearing Su	Left	2.583ft	Right	2.58	33ft	
Bridge Rail		Left	Type 11	Right	Тур	e 11



Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	8.167ft	
2	PPC Girder	8.167ft	
3	PPC Girder	8.167ft	
4	PPC Girder	ft	

SIMILAR GIRDERS



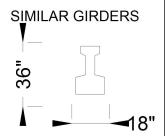
MEASUREMENTS VERIFIED 5/24/2017 BY MJM

Title		Descri	Description					
Superstructure		Spans	Spans 1 & 4					
Bridge No: 770154	Drawn By: RBH		Date: _{12/12/07}	File Name: S0098000578				

Deck Width/Out to Out	Betwee	31.417ft						
Clear Roadway	28ft	Wearir	Wearing Surface					
Median Width		Mediar	Median Height					
Curb Height		Left	0.833ft	Right	0.83	33ft		
Sidewalk Width		Left		Right				
Clear Roadway (Rail to Median)		Left		Right				
Guardrail Width		Left	1ft	Right	1ft			
Top of Rail to Deck/Wearing Surface		Left	2.583ft	Right	2.5	33ft		
Bridge Rail		Left	Type 11	Right	Тур	e 11		

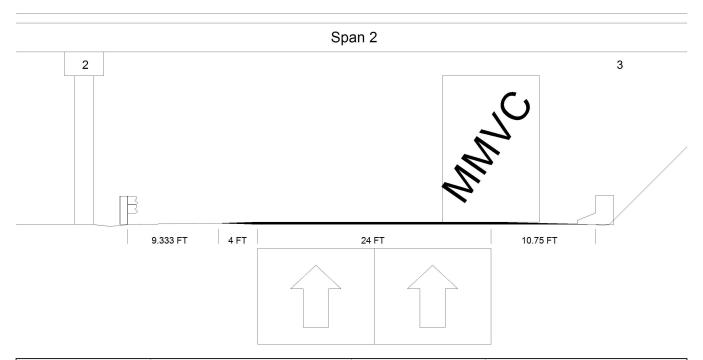


Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	6.125ft	
2	PPC Girder	6.125ft	
3	PPC Girder	6.125ft	
4	PPC Girder	6.125ft	
5	PPC Girder	ft	



MEASUREMENTS VERIFIED 5/24/2017 BY MJM

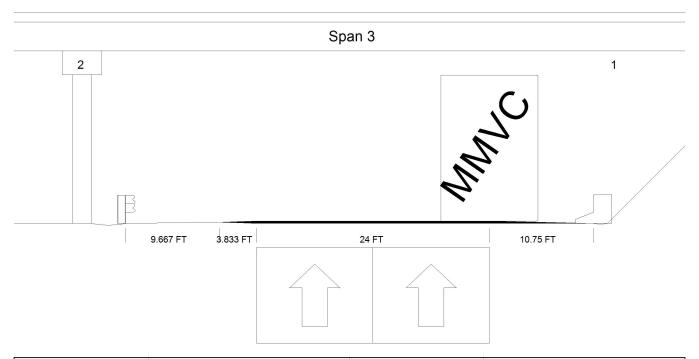
Title		Description				
Superstructure # 2		Span 2				
Bridge No: 770154	Drawn By: RBH		Date: 12/12/07	File Name: \$0098000579		



Roadway 1		Direction of Traffic	South				
Distance to Left Rail	13.333FT	Distance to Right Rail	10.75FT				
Distance to Left Toe of Slope		Distance to Left Bent	16.833FT				
Distance to Right Toe of Slope	12.167FT	Distance to Right Bent	12.167FT				
MMVC	16.2 Ft at Beam 5, 10 FT from RIGHT EDGE OF PAVEMENT						
MVC	16.1 Ft at Beam 5, 0 FT from CENTER of ROADWAY						

MEASUREMENTS UPDATED 5/24/2017 BY MJM

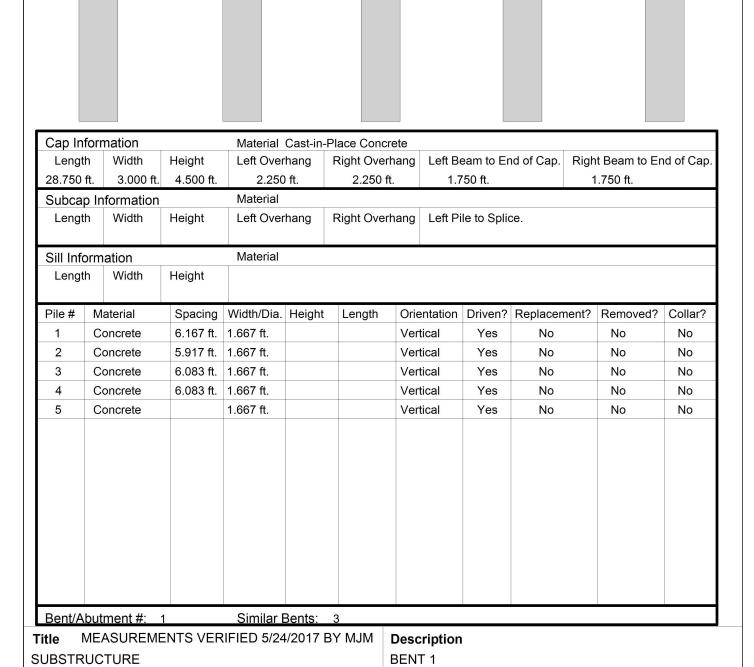
Title		Description				
Underclearance N.B.L. (Lo	ooking North)	Span 2	2			
Bridge No: 770154	Drawn By: RLK		Date: 5/23/2011	File Name: \$0098000580		



Roadway 1		Direction of Traffic	North				
Distance to Left Rail	13.5FT	Distance to Right Rail	10.75FT				
Distance to Left Toe of Slope		Distance to Left Bent	17FT				
Distance to Right Toe of Slope	12.167FT	Distance to Right Bent	12.167FT				
MMVC	16.3 Ft at Beam 5, 10 FT from RIGHT EDGE OF PAVEMENT						
MVC	16.1 Ft at Beam 5, 0 FT from AT CENTER OF ROADWAY						

MEASUREMENTS UPDATED 5/24/2017 BY MJM

Title		Description				
Underclearance S.B.L. (Looking South)		Span 3				
Bridge No: 770154	Drawn By: RLK		Date: 5/23/2011	File Name: \$0098000581		

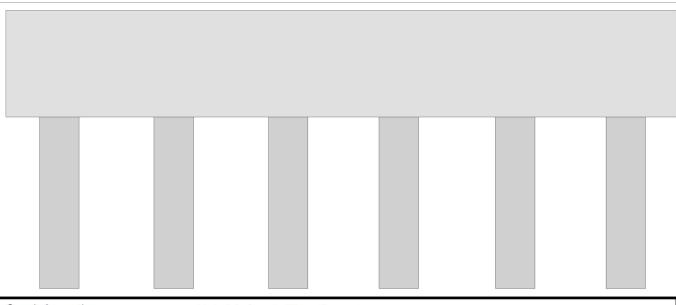


File Name: S0098000821

Date: 6/3/2009

Bridge No: 770154

Drawn By: RLK



Cap Information Material Cast-in-Place Concrete												
Lengt	h Width	Height	Left Over	hang	Right Overhang		Left Beam to End of Cap.		nd of Cap.	Right Beam to End of Cap		d of Cap.
28.333	ft. 3.000 ft.	4.500 ft.	2.250	ft.	2.250 ft.		1.7	'50 ft.		1.	.750 ft.	
Subcap Information Material												
Lengt	h Width	Height	Left Over	hang	ng Right Overhang Left Pile to Splice.							
Sill Info	ormation		Material									
Lengt	h Width	Height										
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orie	entation	Driven?	Replaceme	ent?	Removed?	Collar?
1	Concrete	4.833 ft.	1.667 ft.			Verl	tical	Yes	No		No	No
2	Concrete	4.833 ft.	1.667 ft.			Verl	tical	Yes	No		No	No
3	Concrete	4.667 ft.	1.667 ft.			Verl	tical	Yes	No		No	No
4	Concrete	4.917 ft.	1.667 ft.			Verl	tical	Yes	No		No	No
5	Concrete	4.667 ft.	1.667 ft.			Vertical		Yes	No		No	No
6	Concrete		1.667 ft.			Vertical		Yes	No		No	No
6 Concrete 1.667 ft. Vertical Yes No No No												

Title MEASUREMENTS VERIFIED 5/24/2017 BY MJM **Description** SUBSTRUCTURE 2 BENT 2

Bridge No: 770154 Drawn By: RLK Date: 6/3/2009 File Name: \$0098000822