

ATTENTION: PAR ISSUED. APROACH ROADWAY SKETCH UPDATED, SUPERSTRUCTURE SKETCH UPDATED, SPAN 2 EAST BOUND LANE CLEARANCE SKETCH UPDATED, SPAN 2 WEST BOUND LANE CLEARANCE UPDATED.

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 05/16/2019

DIVISION: 6	COUNTY: ROBESO	N STRUC	TURE NUMBER: <u>770160</u>	FRE	QUENCY:	24 MONT	HS
FACILITY CARRIED	: <u>195</u> S			MILE POST	: 31.3		
LOCATION: 0.2 MI.	E. JCT. SR1732		0.83 MILES NORTH	OF INTERSI	ECTION WI	ITH SR 10	06
FEATURE INTERSE	CTED: NC20						
LATITUDE: 34° 48	' 40.24"	LONGITUDE:	78° 59' 10.93"				
SUPERSTRUCTURE	: REINFORCED CO	DNCRETE FLOOR ON I-	BEAMS				
SUBSTRUCTURE:	BTS:RC CAPS ON	PPC PILES;INT.BTS:RCF	P&B				
SPANS: 3 SPANS	S. SEE SPAN PROFI	LE SHEET FOR SPAN D	ETAILS				
FRACTURE CR	ITICAL TEMPO	DRARY SHORING	SCOUR CRITICAL	SCOUR	PLAN OF	ACTION	
NBI GRADES:	DECK 6 SU	PERSTRUCTURE 5	SUBSTRUCTURE 5	CULVER	RT N		
POSTED SV: Not I	Posted		POSTED TTST: Not Po	sted			
OTHER SIGNS PRES	SENT: 2 VERTICAL	CLEARANCE SIGNS		Sign notice issued for NO NO NO NO NO	WEIGH DELINE NARROW	IT LIMIT EATORS / BRIDGE E BRIDGE	Number Required 0 0 0 0 0 0
				INSI DIR	CTION OF PECTION ECTION HES PLANS	S-N NO I	PLANS
COVER PHOTO L	OOKING NORTH						
INSPECTED BY JOHN T. EUBANKS		SIGNATURE John	1 % Eubanks	ASSISTED BY	Y FELTON	W. BERGE	R

— IDENTIFICATION —				
(1) STATE NAME NORTH CAROLINA BRIDGE		770160	SUFFICIENCY RATING	60 00000000000000000000000000000000000
(8) STRUCTURE NUMBER (FEDERAL)		1550160	STATUS = Function	many Opsolet
(5) INVENTORY ROUTE (ON/UNDER) ON	111	1000950	CLASSIFICATION	CODE
(2) STATE HIGHWAY DEPARTMENT DISTRICT (3) COUNTY CODE (FEDERAL) 155 (4) PLACE CO	DDF	6 58720	(112) NBIS BRIDGE SYSTEM	YE
(6) FEATURE INTERSECTED NC20	, DE	30120	(104) HIGHWAY SYSTEM Inventory Route is on N	HS
(7) FACILITY CARRIED 195S			(26) FUNCTIONAL CLASS Rural Principal Arterial - Interst	ate 0
(9) LOCATION 0.2 MI. E. JCT. SR1732			(100) STRAHNET HIGHWAY Interstate STRAHNET Ro	ute
(11) MILEPOINT		31.3	(101) PARALLEL STRUCTURE The left structure of parallel bridge	ges
(12) BASE HIGHWAY NETWORK		1	(102) DIRECTION OF TRAFFIC 1-way tra	ffic
(13) LRS INVENTORY ROUTE & SUBROUTE		10095	(103) TEMPORARY STRUCTURE	
(16) LATITUDE 34° 48' 40.24" (17) LONGITUD (98) BORDER BRIDGE STATE CODE PERC	ENT SHARED	9' 10.93"	(110) DESIGNATED NATIONAL NETWORK - on national network for true	cks
(99) BORDER BRIDGE STRUCTURE NUMBER	ENT SHARLD		(20) TOLL On Free Ro	
STRUCTURE TYPE AND MATER	RIAL ———		(21) MAINT -	0
(43) STRUCTURE TYPE MAIN		Steel	(22) OWNER -	0
TYPE Stringer/Multi-beam o	r girder CODE	302	(37) HISTORICAL SIGNIFICANCE -	
(44) STRUCTURE TYPE APPROACH			CONDITION	CODE
TYPE	CODE		(58) DECK	
(45) NUMBER OF SPANS IN MAIN UNIT		3	(59) SUPERSTRUCTURE	
(46) NUMBER OF SPANS IN APPROACH		0	(60) SUBSTRUCTURE	
(107) DECK STRUCTURE TYPE	CODE	1	(61) CHANNEL & CHANNEL PROTECTION	
(108)WEARING SURFACE/PROTECTIVE SYSTEM			(62) CULVERTS	
(A) TYPE OF WEARING SURFACE	CODE	6	LOAD RATING AND POSTING	_ CODE
(B) TYPE OF MEMBRANE	CODE	0	(31) DESIGN LOAD H 20 + N	
(C) TYPE OF DECK PROTECTION	CODE	0	(63) OPERATING RATING METHOD - Load Fac	tor
. ,				-32 6
AGE AND SERVICE —		1959		- 52
(27) YEAR BUILT			(65) INVENTORY RATING METHOD -	-19 3
(106) YEAR RECONSTRUCTED	000000	0. 0000000 0	(66) INVENTORY RATING	-19 3
(42) TYPE OF SERVICE ON -	Overpass S	tructure	(70) BRIDGE POSTING No Posting Requi	red
OFF - Hig	ghway CODE	61	(41) STRUCTURE OPEN, POSTED, OR CLOSED	
(28) LANES ON STRUCTURE 2 LANES UNDER	R STRUCTURE	4	DESCRIPTION Open, no restriction	on
(29) AVERAGE DAILY TRAFFIC		27750	APPRAISAL	_ CODE
(30) YEAR OF ADT 2018 (109) TRUCK A	ADT PCT	23	(67) STRUCTURAL EVALUATION	0022
(19) BYPASS OR DETOUR LENGTH		0.0	(68) DECK GEOMETRY	
GEOMETRIC DATA —			(69) UNDERCLEARANCES, VERT & HORIZ	
(48) LENGTH OF MAXIMUM SPAN		79.0	(71) WATERWAY ADEQUACY	
(49) STRUCTURE LENGTH		181.0		
(50) CURB OR SIDEWALK: LEFT 0.0 RIGHT	Г	0.0	(72) APPROACH ROADWAY ALIGNMENT	
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB		28.0	(36) TRAFFIC SAFETY FEATURES	111
(52) DECK WIDTH OUT TO OUT		31.4	(113) SCOUR CRITICAL BRIDGES	
(32) APPROACH ROADWAY WITH (W/ SHOULDERS)	CODE	29.0	PROPOSED IMPROVEMENTS	
(33) BRIDGE MEDIAN Open m (34) SKEW 21 (35) STRUCTURE FLA	nedian CODE	1 0	(75) TYPE OF WORK	CODE
(10) INVENTORY ROUTE MIN VERT CLEAR	IIILD	999.9	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		28.0	(94) BRIDGE IMPROVEMENT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9	(95) ROADWAY IMPROVEMENT COST	
(54) MIN VERT UNDERCLEAR: REFERENCE	Н	14.4	(96) TOTAL PROJECT COST	
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE	н	11.5	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(56) MIN LAT UNDERCLEARANCE LT:		99.9	(114) FUTURE ADT 55,500 YEAR OF FUTURE ADT	204
NAVIGATION DATA	^		INSPECTION	0)/
(38) NAVIGATION CONTROL -	CODE	N	(90) INSPECTION DATE 05/17 (91) FREQUEN	
(111) PIER PROTECTION	CODE		(92) CRITICAL FEATURE INSPECTION (93) CFI	DATE
(39) NAVIGATION VERTICAL CLEARANCE		0.0	A) FRACTURE CRIT DETAIL 0 A)	
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR		0.0	B) UNDERWATER INSP 0 B)	
(40) NAVIGATION HORIZONTAL CLEARANCE		0.0	C) OTHER SPECIAL INSP 0 C)	
			SCOUR	

			ertical							raffic	ce			See N	lote Be	low			n	
Span Number	Facility Carried	Inventory Route	Maximum Minimum Vert Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Tr	Total Horizontal Clearan	Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway	Direction of Traffic	National Highway Syster	National Truck Network
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	NC20W.	31000200	14.5		0		7	2	7500	2018	72.1	Н	14.4	11.5	99.9	5	þ	1		

Superstructure Build Details

Span Number $\underline{1}$

Span Length <u>50.5000</u>

Skew 111.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)	
4	Movable Bearing	Movable Bearing	4	Each	Unknow	8	
4	Plate Girder	Steel Open Girder/Beam	200	Feet	Unknow	1976	
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1591	Square Feet			
1	Asphalt Wearing Surface	Wearing Surface	1414	Square Feet			
4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8	
2	Concrete and Metal Railing	Other Bridge Railing	102	Feet			

Span Number 2

 $\textbf{Span Length} \quad \underline{80.0000}$

Skew 111.0000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	32	Feet		
2	Concrete and Metal Railing	Other Bridge Railing	160	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2520	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Unknow	8
4	Plate Girder	Steel Open Girder/Beam	320	Feet	Unknow	3152
1	Asphalt Wearing Surface	Wearing Surface	2240	Square Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8

Span Number 3

Span Length <u>50.5000</u>

Skew 111.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete and Metal Railing	Other Bridge Railing	102	Feet		
1	Standard Joint	Pourable Joint Seal	32	Feet		
4	Plate Girder	Steel Open Girder/Beam	200	Feet	Unknow	1976
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1591	Square Feet		

Superstructure Build Details

4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8
4	Movable Bearing	Movable Bearing	4	Each	Unknow	8
1	Asphalt Wearing Surface	Wearing Surface	1414	Square Feet		

Structure Element Scoring

Structure Number: 770160 Inspection Date 5/16/2019

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	О	Reinforced Concrete Deck	Deck	5702	4926	276	500	0
107	0	Steel Open Girder/Beam	Beam	720	650	56	14	0
515	107	Steel Protective Coating	Beam	7104	7084	15	3	2
205	0	Reinforced Concrete Column	Piles and Columns	4	1	1	2	0
215	0	Reinforced Concrete Abutment	Abutments	94	75	17	2	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	18	18	0	0	0
226	0	Prestressed Concrete Pile	Foundation Pile	24	24	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	14	14	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	140	101	37	2	0
301	0	Pourable Joint Seal	Expansion Joints	64	58	6	0	0
311	0	Movable Bearing	Bearing Device	12	0	9	3	0
515	311	Steel Protective Coating	Bearing Device	24	2	14	4	4
313	0	Fixed Bearing	Bearing Device	12	4	8	0	0
515	313	Steel Protective Coating	Bearing Device	24	8	8	8	0
333	0	Other Bridge Railing	Bridge Rail	364	0	358	6	0
510	0	Wearing Surface	Wearing Surfaces	5068	5068	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 770160 Inspection Date: 05/16/2019

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	1 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	774 Square Feet
3314	Steel Open Girder/Beam	Damage	6 Feet
3314	Steel Open Girder/Beam	Corrosion	1 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	20 Each
3348	Reinforced Concrete Column	Delamination/Spall	1 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	7 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	9 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	1 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	51 Feet
3334	Movable Bearing	Corrosion	2 Each
3334	Movable Bearing	Connection	4 Each
3318	Other Bridge Railing	Delamination/Spall	370 Feet
3318	Other Bridge Railing	Cracking (RC and Other)	74 Feet
3318	Other Bridge Railing	Cracking	2 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	55 Square Feet

Element Structure Maintenance Quantities

Structure Number: 770160 Inspection Date 05/16/2019

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	16	94	0	2	17	75
Beam	3314	Maintenance Steel Superstructure Components	7	720	О	14	56	650
Beam	3342	Clean and Paint Steel	17	7104	2	3	15	7084
Bearing Device	3334	Bridge Bearing	6	24	О	3	17	4
Bearing Device	3342	Clean and Paint Steel	38	48	4	12	22	10
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	446	364	О	6	358	0
Caps	3348	Maintenance of Concrete Substructure	52	140	О	2	37	101
Deck	3326	Maintenance of Concrete Deck	775	5702	0	500	276	4926
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	64	0	0	6	58
Footing	3348	Maintenance of Concrete Substructure	0	18	0	0	0	18
Foundation Pile	3348	Maintenance of Concrete Substructure	0	24	0	0	0	24
Piles and Columns	3348	Maintenance of Concrete Substructure	21	18	0	2	1	15
Wearing Surfaces	2816	Asphalt Surface Repair	0	5068	0	0	0	5068

Priority Actions Request

Structure Num	770160		
Span1			
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
1	Corrosion	1	Span 1 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR
2	Connection	1	Span 1 Beam 1 Far Bearing: EAST ANCHOR BOLT LEANING TOWARDS SOUTH PAR
3334	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Connection	1	Span 1 Beam 4 Far Bearing: WEST ANCHOR BOLT LEANING TOWARDS SOUTH PAR

Element Condition and Maintenance Data

Structure Number: 770160 Inspection Date: 05/16/2019

oliuciuie	INUITIL	770100					IIIk	spection D	ate. <u>03/10/2013</u>		
Sp	an 1		Deck								
Re	Reinforced Concrete Deck										
	ement ımber					CS2 Qty	CS3 Qty	CS4 Qty			
12		Reinford	ced Concrete Deck	1,591	1,066	25	500	0 S	quare Feet		
Eleme Numb		Defect Type	Defect Description	on		cs	CS Qty	Maint Qty			
12	Crac Oth	cking (RC and er)	500 SF. OF TRANSVERSE AND LONG TO 1/16" WIDE WITH EFFLORESCENC DECK			3	500	500	Square Feet		
12	Crac Oth	cking (RC and er)	12 - 2 FT. TRANSVERSE HAIRLINE CR EFFLORESCENCE IN BOTTOM OF DE OVERHANG			2	12	12	Square Feet		
12	Crac Othe	cking (RC and er)	13 - 2 FT. TRANSVERSE HAIRLINE CR EFFLORESCENCE IN BOTTOM OF DE		ERHANG	2	13	13	Square Feet		
	Gene	eral Comments									

Spa	an 1			Beam 1						
Pla	te Girder									
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Op	en Girder/Beam		50	49	0	1	0	Feet
515		Steel Pro	otective Coating		494	493	0	0	1	Square Feet
Eleme Numb	Dofoct T	уре		Defect Description			cs	CS Qty	Maint Qty	
107	Corrosion			DSION WITH 11/16" RE END DIAPHRAGM AT B		0=0	3	1		1 Feet
515	Effectiveness Protective Co	`		TIVE PROTECTIVE CC PHRAGM AT BENT 1	ATING ON	N WEB	4	1		1 Square Feet
	General Comn	nents								

END DIAPHRAGM WEST OVERHANG AT BENT 1: 24" X 8" X 5" DEEP SPALL WITH EXPOSED REBAR IN SOUTH FACE

END DIAPHRAGM BAY 1 AT BENT 1: 24" X 6" DELAMINATION IN SOUTH FACE

Spa	n 1	Beam 2						
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O	pen Girder/Beam	50	49	1	0	0	Feet
515	Steel P	rotective Coating	494	493	1	0	0	Square Feet
Elemer Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITT WITH RUST BLEEDING IN WEB A AND BEARING STIFFENER AT BE	ROUND END DIAP		2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENE COATING ON WEB AROUND END BEARING STIFFENER AT BENT 1	DIAPHRAGM AND		2	1	•	1 Square Feet

General Comments

END DIAPHRAGM BAY 2 AT BENT 1: 24" X 12" DELAMINATION IN SOUTH FACE END DIAPHRAGM BAY 2 AT BENT 1: 2 - 18" VERTICAL HAIRLINE CRACKS IN SOUTH FACE

								2 a.to. <u>20/10/2010</u>
Spa	an 1	Beam 3						
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	oen Girder/Beam	50	49	1	0	0	Feet
515	Steel Pr	otective Coating	494	493	1	0	0	Square Feet
Elemer Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITT WITH RUST BLEEDING IN WEB AND BEARING STIFFENER AT B	AROUND END DIAP		2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVEN COATING ON WEB AROUND EN BEARING STIFFENER AT BENT	D DIAPHRAGM AND	_	2	1		1 Square Feet
	General Comments							

END DIAPHRAGM BAY 3 AT BENT 1: 1 SF. PATCHED AREA

END DIAPHRAGM BAY 3 AT BENT 1: 18" VERTICAL HAIRLINE CRACK IN SOUTH FACE

1	Beam 4						
Girder							
nt er	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty		
Steel Op	oen Girder/Beam	50	49	1	0	0	Feet
Steel Pro	otective Coating	494	493	1	0	0	Square Feet
Defect Type	Defect De	scription		cs	CS Qty	Maint Qty	
Corrosion	WITH RUST BLEEDING IN WEE	B AROUND END DIAP		2	1		Feet
ffectiveness (Steel Protective Coatings)		ND DIAPHRAGM AND		2	1		1 Square Fee
	Girder nt er Steel Op Steel Pro Defect Type Corrosion iffectiveness (Steel	roter Corrosion Defect Type Corrosion 1 FOOT OF PAINTED OVER PI WITH RUST BLEEDING IN WEB AND BEARING STIFFENER AT 1 S.F OF LIMITED EFFECTIVE COATING ON WEB AROUND E	Interest Element Name Steel Open Girder/Beam 50 Steel Protective Coating 494 Defect Type Defect Description Corrosion 1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DI WITH RUST BLEEDING IN WEB AROUND END DIAP AND BEARING STIFFENER AT BENT 1 Iffectiveness (Steel Protective Coatings) 1 S.F OF LIMITED EFFECTIVENESS OF PROTECTION ON WEB AROUND END DIAPHRAGM AND COATING ON WEB AROUND END DIAPHRAGM AND	Interest Element Name Steel Open Girder/Beam Steel Protective Coating 494 493 Defect Type Defect Description	Int Bleect Name Total CS1 CS2 CS2 Protective Coating Total CS1 CS2 Qty Qty Qty Qty Steel Open Girder/Beam 50 49 1 Steel Protective Coating Steel Protective Coating Telephone CS2 Corrosion	Interpolation of the protective Coating and Defect Description and Defect Type Defect Description CS CS Qty Corrosion	Total CS1 CS2 CS3 CS4 er Element Name Qty Qty Qty Qty Qty Steel Open Girder/Beam 50 49 1 0 0 Steel Protective Coating 494 493 1 0 0 Defect Type Defect Description CS CS Qty With RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1 Iffectiveness (Steel 1 S.F OF LIMITED EFFECTIVENESS OF PROTECTIVE 2 1 Protective Coatings) COATING ON WEB AROUND END DIAPHRAGM AND

END DIAPHRAGM EAST OVERHANG AT BENT 1: 12" X 3" X 1" DEEP SPALL WITH EXPOSED REBAR IN EAST FACE

_	4	1 " 5 ' 1 5						
Spa	an 1	Left Bridge Ra	ail					
Coi	ncrete and Metal F	Railing						
	ement mber Other B	Element Name ridge Railing	Total Qty 51	CS1 Qty 0	CS2 Qty 49	CS3 Qty 2	CS4 Qty 0 Fe	eet
Eleme	Dofoct Typo	Defect Descript	ion		cs	CS Qty	Maint Qty	
333	Cracking	18" DIAGONAL CRACK 1/8" WIDE IN BENT 1	RAIL 5 FT. FROI	M END	3	2	2	Feet
333	Cracking (RC and Other)	1 - 8" TRANSVERSE HAIRLINE CRAC	K IN RAIL		2	1	1	Feet
333	Delamination/Spall	4" DIAMETER X 1" DEEP SPALL WITH FT. FROM END BENT 1	H EXPOSED RE	BAR 5	2	1	1	Feet
333	Delamination/Spall	51 FT. OF ABRASION WITH EXPOSE AGGREGATE	D COARSE		2	47	51	Feet
	General Comments							

Spa	n 1	Right Brid	dge Rail					
Con	crete and Metal F	Railing						
	ment nber Other B	Element Name Bridge Railing	Total Qty 51	CS1 Qty 0	CS2 Qty 51	CS3 Qty 0	CS4 Qty 0 F	eet
lemen	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty	
333	Cracking (RC and Other)	3 - 18" TRANSVERSE HAIRLINE	CRACKS IN CURB		2	3	6	Feet
333	Cracking (RC and Other)	3 - 8" TRANSVERSE HAIRLINE	CRACKS IN RAIL		2	3	3	Feet
333	Delamination/Spall	51 FT. OF ABRASION WITH EX AGGREGATE	POSED COARSE		2	25	51	Feet
333	Distortion	MULTIPLE GOUGES UP TO 6" 2	X 1" IN RAIL		2	20		Feet

Spa	n 1	Near Beari	ng					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing	1	0	1	0	0	Each
515	Steel Pi	rotective Coating	2	0	0	2	0	Square Feet
Elemen Numbe	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE CORROSION			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECT	TIVE COATING		3	2		2 Square Feet
	General Comments							

Spai	n 1	Far Bearin	g					
Mov	able Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	2	0	0	Square Feet
Element Number	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
311	Connection	EAST ANCHOR BOLT LEANING	TOWARDS SOUTH F	PAR	2			1 Each
311	Corrosion	FRECKLED RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENE COATING	SS OF PROTECTIV	E	2	2	2	2 Square Feet
(General Comments							

Span 1		Far Bearing						
Movable	e Bearing							
Element Number		ame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing		1	0	0	1	0	Each
515	Steel Protective Coating		2	2	0	0	0	Square Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>770160</u>			Inspe	ction Date: <u>05/16/2019</u>
311	Connection	PAINTED OVER CORROSION WITH 1/4" REMAINING SECTION ON EAST ANCHOR BOLT	3	1	1 Each
311	Connection	WEST ANCHOR BOLT LEANING TOWARDS NORTH	2		1 Each

0	C
General	Comments

Spa	n 1	Far Bearing						
Mo	vable Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
311	Corrosion	1/2" OF PACK RUST			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTI	VE COATING		4	2		2 Square Feet
	General Comments							

Spar	n 1	Near Beari	ng					
Fixe	d Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Element Number	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE CORROSION			2	1		Each
	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTION	TIVE COATING		3	2		2 Square Feet
(General Comments							

Spa	n 1	Far Bearir	ng					
Mov	able Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Elemen Numbe	Dofoct Type	Defect Des	scription		cs	CS Qty	Maint Qty	
311	Connection	WEST ANCHOR BOLT LEANING	TOWARDS SOUTH	PAR	2	1	1	Each
311	Corrosion	SURFACE CORROSION			2			Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		3	2	2	2 Square Feet
-	General Comments							

n 2	Deck						
nforced Concrete	Deck						
	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinfor	ced Concrete Deck	2,520	2,495	25	0	0 8	Square Feet
Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
Cracking (RC and Other)				2	16	16	Square Feet
Cracking (RC and Other)			ł	2	9	9	Square Feet
	ment nber Reinfor t Defect Type Cracking (RC and Other) Cracking (RC and	nent nber Element Name Reinforced Concrete Deck tr Defect Type Defect Desc Cracking (RC and Other) 16 - 2 FEET TRANSVERSE HAIRLI EFFLORESCENCE IN BOTTOM O Other) 9 - 2 FEET TRANSVERSE HAIRLII EFFLORESCENCE IN BOTTOM O EFFLORESCENCE IN BOTTOM O	ment Element Name Qty Reinforced Concrete Deck tr Defect Type Defect Description Cracking (RC and Other) Cracking (RC and Other) Cracking (RC and Other) EFFLORESCENCE IN BOTTOM OF DECK EAST OV EFFLORESCENCE IN BOTTOM OF DECK WEST EFFLORESCENCE IN BOTTOM OF DECK WEST	ment Element Name Qty Qty Reinforced Concrete Deck t Defect Type Defect Description Cracking (RC and Other) Cracking (RC and Other) Cracking (RC and Other) EFFLORESCENCE IN BOTTOM OF DECK EAST OVERHANG Other) 9 - 2 FEET TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST	ment Element Name Qty Qty Qty Reinforced Concrete Deck t Defect Type Defect Description CS Cracking (RC and Other) 16 - 2 FEET TRANSVERSE HAIRLINE CRACKS WITH 2 EFFLORESCENCE IN BOTTOM OF DECK EAST OVERHANG Other) 9 - 2 FEET TRANSVERSE HAIRLINE CRACKS WITH 2 EFFLORESCENCE IN BOTTOM OF DECK WEST 2 Total CS1 CS2 Qty	ment Blement Name Blement Name Reinforced Concrete Deck Total CS1 CS2 CS3 Qty	ment Element Name Qty

Span	2	Ехра	nsion Joint					
Stand	dard Joint							
Eleme		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	le Joint Seal	32	29	3	0	-	Feet
lement lumber	Defect Type	Defe	ect Description		cs	CS Qty	Maint Qty	
301	Debris Impaction	3FT DEBRIS IMPACTION			2	3		Feet
_	Debris Impaction eneral Comments	3FT DEBRIS IMPACTION			2	3		

Spa	n 2	Beam 1						
Plat	e Girder							
	ment nber Stee	Element Name	Total Qty 80	CS1 Qty 56	CS2 Qty	CS3 Qty	CS4 Qty 0 Feet	
515		Protective Coating	788	786	2	0	0 Square Feet	
Elemen Numbe	Dafaat Tuna	Defect Des	scription		cs	CS Qty	Maint Qty	
107	Damage	BEAM 1 SPAN 2 HAS TWO GOL STIFFENER PLATE & IS LOCAT OF BEAM. 1 1/2" LONG X 1/4" I X 1/4" DEEP GOUGE.	ED 19FT FROM SOU	TH END	3	1	Feet	
107	Corrosion	1 FOOT OF PAINTED OVER PIT WITH RUST BLEEDING IN WEB AND BEARING STIFFENER AT I	AROUND END DIAP		2	1	Feet	
107	Corrosion	1 FOOT OF SURFACE CORROS BENT 1	SION ON TOP FLANG	E AT	2	1	Feet	
107	Damage	BEAM 1 IN SPAN 2 HAS SEVER FROM 4" LONG X 3/16" DEEP TO STIFFENER PLATE LOCATED 2 BEAM.	O BOTTOM FLANGE	&	2	1	Feet	
107	Distortion	10 FEET OF VEHICLE SCRAPES 1/2" IN BOTTOM FLANGE AND E PLATE 25 FEET FROM BENT 1			2	10	Feet	
107	Distortion	10 FEET OF VEHICLE SCRAPES 1/2" IN BOTTOM FLANGE AND E PLATE 25 FT. FROM BENT 2			2	10	Feet	
515	Effectiveness (Sterotective Coating		ND DIAPHRAGM AND		2	1	1 Square Fee	t
515	Effectiveness (Sterotective Coating		ND DIAPHRAGM AND		2	1	1 Square Fee	t

END DIAPHRAGM BAY 1 AT BENT 1: 4" X 2" DELAMINATION IN NORTH FACE

Spa	n 2	Beam 2						
Plat	e Girder							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	oen Girder/Beam	80	76	2	2	0	Feet
515	Steel Pr	otective Coating	788	786	2	0	0	Square Feet
Elemen Numbe	Defeat Type	Defect Des	Defect Description		cs	CS Qty	Maint Qty	
107	Damage	BEAM 2 IN SPAN 2 HAS GOUGE IN BOTTOM FLANGE STIFFENER PLATE AND IS LOCATED 19FT FROM SOUTH END OF BEAM. 2 1/2" LONG X 1/4" DEEP GOUGE IN BOTTOM STIFFENER PLATE. BOTTOM FLANGE IS BOWED UPWARDS 1" FOR A LENGTH OF 2FT				2		2 Feet
107	Corrosion	1 F00T OF PAINTED OVER PITT RUST BLEEDING IN WEB AROU BEARING STIFFENER AT BENT	ND END DIAPHRAG		2	1		Feet
107	Corrosion		NTED OVER PITTING UP TO 1/16" DEEP 2 1 EEDING IN WEB AROUND END DIAPHRAGM STIFFENER AT BENT 1		1 Feet			
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVEN COATING ON WEB AROUND EN BEARING STIFFENER AT BENT	ID DIAPHRAGM AND		2	1		1 Square Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVEN COATING ON WEB AROUND EN BEARING STIFFENER AT BENT	ID DIAPHRAGM AND		2	1		1 Square Feet

General Comments

END DIAPHRAGM BAY 2 AT BENT 1: 12" X 4" DELAMINATION IN NORTH FACE

Spa	n 2		Beam 3					
Plat	e Girder							
Nur	ment nber	Cta al O	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107 515		·	pen Girder/Beam rotective Coating	80 788	68 786	7 2	5 0	0 Feet0 Square Feet
Elemen Numbe	Dofoot	Туре	Defect Description			cs	CS Qty	Maint Qty
107	Damage		BEAM 3 IN SPAN 2 BOTTOM FLAM 1 1/4" FOR A LENGTH OF 2 FEET.		PWARDS	3	2	2 Feet
107					NGE	3	1	Feet
107	Damage		BEAM 3 IN SPAN 2 OVER WEST E @ POINT OF IMPACT OF 19 FEET BEAM.			3	1	Feet
107	Damage		BEAM 3 IN SPAN 2 OVER WEST E 3" LONG X 3/16" DEEP GOUGE IN STIFFENER PLATE, & IS LOCATE END OF BEAM.	BOTTOM FLANGE	Ē	3	1	Feet
107	Corrosion		1 FOOT OF PAINTED OVER PITTI WITH RUST BLEEDING IN WEB A AND BEARING STIFFENER AT BE	ROUND END DIAP		2	1	Feet
107	Corrosion		1 FT. OF PAINTED OVER PITTING RUST BLEEDING IN WEB AROUN BEARING STIFFENER AT BENT 2			2	1	Feet
107	Distortion		5 FEET OF VEHICLE SCRAPES W 1/2" IN BOTTOM FLANGE AND BC PLATE 25 FEET FROM BENT 2			2	5	Feet

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515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1	1 Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1	1 Square Feet

General Comments

END DIAPHRAGM BAY 3 AT BENT 2: 4" DIAMETER DELAMINATION IN SOUTH FACE

Spa	ın 2	Beam 4						
Plat	te Girder							
	ment nber Steel	Element Name Open Girder/Beam	Total Qty 80	CS1 Qty 57	CS2 Qty 18	CS3 Qty 5	CS4 Qty 0 F	eet
515	Steel	Protective Coating	788	783	2	3	0 8	Square Feet
Elemer	Defeat Tune	Defect Descrip	otion		cs	CS Qty	Maint Qty	
107	Damage	BEAM 4, SPAN 2 BOTTOM FLANGE FOR 1/4" FOR A LENGTH OF 1FT.	IS BOWED UPW	ARDS	3	1	,	Feet
107	Damage	BEAM 4, SPAN 2 HAS A GOUGE IN STIFFENER PLATE 3 1/2" LONG X 1 LOCATED 18FT FROM SOUTH END	/4" DEEP AND IS		3	1		Feet
107	Damage	BEAM 4, SPAN 2 IS BOWED 1" OUT IMPACT WHICH IS LOCATED 18 FT BEAM.			3	1		Feet
107	Damage	BEAM 4, SPAN 2 OVER WEST BOUI OUT OF PLUM @ POINT OF IMPACT		'ED 2'	3	1	1	Feet
107	Damage	BEAM 4, SPAN 2 OVER WEST BOUI GOUGES 2 1/2" LONG X 1/4" DEEP STIFFENER PLATE, LOCATED 20 F OF BEAM.	IN BOTTOM FLAI	NGE &	3	1		Feet
107	Corrosion	1 FEET OF PAINTED OVER PITTING WITH RUST BLEEDING IN WEB ARC AND BEARING STIFFENER AT BEN	OUND END DIAPI		2	1		Feet
107	Corrosion	1 FT. OF PAINTED OVER PITTING L RUST BLEEDING IN WEB AROUND BEARING STIFFENER AT BENT 2			2	1		Feet
107	Damage	BOTTOM FLANGE OF BEAM 4 SPAN DOWNWARD 1/4" OVER WEST BOU			2	1	1	Feet
107	Distortion	10 FT. OF VEHICLE SCRAPES WITH 1/2" IN BOTTOM FLANGE AND BOT PLATE 25 FT. FROM BENT 2			2	10		Feet
107	Distortion	5 FEET OF VEHICLE SCRAPES WIT 1/2" BOTTOM FLANGE AND BOTTO PLATE 25 FEET FROM BENT 1			2	5		Feet
515	Damage	21' 1/2" LONG X 10" HIGH AREA OF FLAKED OFF AND BUBBLING TO EX 4 IN SPAN 2 FROM IMPACT.		-	3	3		Square Feet
515	Effectiveness (Steel Protective Coatings)				2	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)				2	1	1	Square Feet
	Protective Coatings Effectiveness (Steel) COATING ON WEB AROUND END D BEARING STIFFENER AT BENT 1 I 1 S.F. OF LIMITED EFFECTIVENESS) COATING ON WEB AROUND END D BEARING STIFFENER AT BENT 2	DIAPHRAGM AND	Έ				

							•	
Spa	an 2	Left Brido	ge Rail					
Co	ncrete and Metal I	Railing						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other E	Bridge Railing	80	0	80	0	0 F	eet
Eleme Numb	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty	
333	Cracking (RC and Other)	1 - 8" TRANSVERSE HAIRLINE	CRACK IN RAIL		2	1	1	Feet
333	Cracking (RC and Other)	7 - 18" TRANSVERSE HAIRLINE	E CRACKS IN CURB		2	7	14	Feet
333	Delamination/Spall	80 FT. OF ABRASION WITH EX AGGREGATE	POSED COARSE		2	72	80	Feet
	General Comments							

Spa	n 2	Right Brid	dge Rail					
Con	crete and Metal F	Railing						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other B	ridge Railing	80	0	80	0	0 F	eet
lemen	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
333	Cracking (RC and Other)	5 - 18" TRANSVERSE HAIRLINE	CRACKS IN CURB		2	5	10	Feet
333	Cracking (RC and Other)	8 - 8" TRANSVERSE HAIRLINE	CRACKS IN RAIL		2	8	8	Feet
333	Delamination/Spall	80 FT. OF ABRASION WITH EXI AGGREGATE	POSED COARSE		2	37	80	Feet
333	Distortion	MULTIPLE GOUGES UP TO 6" >	(1" IN RAIL		2	30		Feet

Spa	n 2	Near Bear	ing					
Mov	vable Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
311	Corrosion	1/4" OF PACK RUST			3	1	•	1 Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF INEFFECTIVE PROTE	CTIVE COATING		4	2		2 Square Feet
	General Comments							

Span 2		Far Bearing						
Fixed B	earing							
Element Number	Element N	ame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing		1	0	1	0	0	Each
515	Steel Protective Coating		2	0	2	0	0	Square Feet
ement umber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

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313	Corrosion	FRECKLED RUST	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet
General Comments					

Spa	an 2	Near Be	aring					
Mo	vable Bearing							
	ment mber	Element Name e Bearing	Total Qty	CS1 Qty 0	CS2 Qty	CS3 Qty	CS4 Qty	
515		rotective Coating	2	0	2	0		Square Feet
Elemer Numbe	Dofoot Typo	Defect D	Description		cs	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIV COATING	ENESS OF PROTECTIV	E	2	2		2 Square Feet
	General Comments							

Spa	n 2	Far Beari	ng					
Fixe	ed Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing	1	0	1	0	0	Each
515	Steel Pr	rotective Coating	2	0	2	0	0	Square Feet
lemen	Dofoct Type	Defect Des	scription		cs	CS Qty	Maint Qty	
313	Corrosion	FRECKLED RUST			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIVENT COATING	NESS OF PROTECTIVE		2	2		2 Square Feet
-	General Comments							

Spai	n 2	Near Be	earing					
Mov	able Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pro	otective Coating	2	0	2	0	0	Square Feet
lement	Dofoct Typo	Defect	Description		cs	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIVE COATING	/ENESS OF PROTECTIVE	=	2	2		2 Square Feet

General Comments

Spa	ın 2		Far Bearing						
Fixe	ed Bearing								
	ment mber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing		1	0	1	0	0	Each
515	Steel Pr	otective Coating		2	0	2	0	0	Square Feet
Elemen Numbe	Dofoot Typo		Defect Description			cs	CS Qty	Maint Qty	
313	Corrosion	FRECKLED RUST				2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED COATING	EFFECTIVENESS OF F	PROTECTIVE		2	2		2 Square Feet
	General Comments								

Spa	an 2	Near Bearin	ng					
Мо	vable Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pro	otective Coating	2	0	0	2	0	Square Feet
Elemei Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
311	Corrosion	SURFACE CORROSION			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF INEFFECTIVE PROTEC	TIVE COATING		3	2		2 Square Feet
	General Comments							

Spa	an 2			Far Bearing						
Fix	ed Bearing									
	ement Imber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	F	ixed Bea	ring		1	0	1	0	0	Each
515	S	Steel Prot	ective Coating		2	0	2	0	0	Square Feet
Eleme Numbe	Dofoot Ti	/pe		Defect Description			cs	CS Qty	Maint Qty	
313	Corrosion		FRECKLED RUST				2	1		Each
515	Effectiveness (Protective Coa		2 S.F. OF LIMITED COATING	EFFECTIVENESS OF P	ROTECTIVE		2	2	:	2 Square Feet
	General Comm	ents								

Spa Rei	n 3 nforced Concrete	Deck Deck						
	ment nber Reinfol	Element Name rced Concrete Deck	Total Qty 1,591	CS1 Qty 1,365	CS2 Qty 226	CS3 Qty	CS4 Qty 0 S	quare Feet
Elemer Numbe	Dofoct Typo	Defect Descr	ription		cs	CS Qty	Maint Qty	
12	Cracking (RC and Other)	10 - 2 FEET TRANSVERSE HAIRL EFFLORESCENCE IN BOTTOM O OVERHANG		Ή	2	10	10	Square Feet
12	Cracking (RC and Other)	14 - 2 FOOT LONG TRANSVERSE EFFLORESCENCE IN BOTTOM O			2	14	14	Square Feet

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12	Cracking (RC and Other)	200 S.F. OF TRANSVERSE AND LONGITUDINAL HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK	2	200	200 Square Feet	
12	Delamination/Spall	12" X 6" DELAMINATION IN BOTTOM OF DECK WEST OVERHANG NEAR MIDSPAN	2	1	1 Square Feet	
12	Patched Areas	1 S.F. PATCHED AREA IN BOTTOM OF DECK WEST OVERHANG AT MIDSPAN	2	1	Square Feet	

General Comments

FIRE DAMAGE IN SPAN 3 BAY 2 BOTTOM OF DECK

Spai	n 3	Expansion	Joint					
Stan	dard Joint							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	le Joint Seal	32	29	3	0	0 Feet	
Element Number	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
301	Debris Impaction	3FT DEBRIS IMPACTION			2	3	Fe	et
(General Comments							

Spa	n 3	Beam 2						
Plat	e Girder							
	ment nber Steel Op	Element Name oen Girder/Beam	Total Qty 50	CS1 Qty 49	CS2 Qty 1	CS3 Qty 0	CS4 Qty	
515	Steel Pro	otective Coating	494	492	1	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITT WITH RUST BLEEDING IN WEB A AND BEARING STIFFENER AT BE	ROUND END DIAP		2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF INEFFECTIVE PROTEC FLANGE AT BENT 2	TIVE COATING ON	TOP	4	1		1 Square Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENE COATING ON WEB AROUND END BEARING STIFFENER AT BENT 2	DIAPHRAGM AND		2	1		1 Square Feet

General Comments

END DIAPHRAGM BAY 2 AT BENT 2: 12" X 4" X 1" DEEP SPALL IN NORTH FACE

Spa	n 3	Beam 3						
Plate	e Girder							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O	pen Girder/Beam	50	49	1	0	0	Feet
515	Steel P	rotective Coating	494	493	1	0	0	Square Feet
Element Number	Dofoct Typo	Defect De	scription		CS	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PIT WITH RUST BLEEDING IN WEE AND BEARING STIFFENER AT	AROUND END DIAP		2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVE COATING ON WEB AROUND E BEARING STIFFENER AT BENT	ND DIAPHRAGM AND		2	1		1 Square Fee

General Comments

END DIAPHRAGM BAY 3 AT BENT 2: 18" X 6" DELAMINATION IN NORTH FACE

Spa	an 3	Beam 4						
Pla	te Girder							
	ment mber Steel O	Element Name pen Girder/Beam	Total Qty 50	CS1 Qty 49	CS2 Qty	CS3 Qty 0	CS4 Qty	
515	Steel P	rotective Coating	494	492	2	0	0	Square Feet
Elemer Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	_
107	Corrosion	1 FOOT OF PAINTED OVER PITT	INC LID TO 1/16" DI	EED	2	4	-	
		WITH RUST BLEEDING IN WEB A AND BEARING STIFFENER AT B	AROUND END DIAP		2	ı		Feet
515	Effectiveness (Steel Protective Coatings)	WITH RUST BLEEDING IN WEB A	AROUND END DIAP ENT 2 ESS OF PROTECTIV D DIAPHRAGM AND	HRAGM /E	2	2		Feet 2 Square Feet

END DIAPHRAGM EAST OVERHANG AT BENT 2: 18" X 4" DELAMINATION IN NORTHEAST CORNER

Spar	n 3	Left Bridg	e Kali					
Cond	crete and Metal F	Railing						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other B	Bridge Railing	51	0	51	0	0 F	eet
lement lumber	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
333	Cracking (RC and Other)	5 - 8" TRANSVERSE HAIRLINE (CRACKS IN RAIL		2	5	5	Feet
333	Cracking (RC and Other)	6 - 18" TRANSVERSE HAIRLINE	CRACKS IN CURB		2	6	12	Feet
333	Delamination/Spall	4" DIAMETER X 1/2" DEEP SPAL IN 2ND RAIL POST FROM END E		EBAR	2	1	1	Feet
333	Delamination/Spall	51 FT. OF ABRASION WITH EXF AGGREGATE	POSED COARSE		2	39	51	Feet

Spa	n 3	Right Brid	ge Rail					
Con	crete and Metal F	Railing						
	nent nber	Element Name	Total Qty 51	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	oot
	Other B	ridge Railing	31	0	41	4	U F	eel
Elemen Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
333	Delamination/Spall	48" X 6" X 3" DEEP SPALL WITH AT END BENT 2	EXPOSED REBAR I	N CURB	3	4	4	Feet
333	Cracking (RC and Other)	2 - 8" TRANSVERSE HAIRLINE C	RACKS IN RAIL		2	2	2	Feet
333	Cracking (RC and Other)	6 - 18" TRANSVERSE HAIRLINE	CRACKS IN CURB		2	6	12	Feet
333	Delamination/Spall	51 FT. OF ABRASION WITH EXPO	OSED COARSE		2	19	51	Feet
333	Distortion	MULTIPLE GOUGES UP TO 6" X	1" IN RAII		2	20		Feet

Spa	an 3	N	ear Bearing					
Мо	vable Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Mov	able Bearing	1	0	1	0	0	Each
515	Ste	el Protective Coating	2	0	2	0	0	Square Feet
Eleme	Dofoct Type	•	Defect Description		CS	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST			2	1	-	Each
515	Effectiveness (Ste Protective Coating		FECTIVENESS OF PROTECTI	VE	2	2		2 Square Feet
	General Commen	ts						

Spa	an 3	Far Bearin	g					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Elemer Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
313	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 3	Near Be	earing					
Мо	vable Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	2	0	0	Square Feet
Elemei Numbe	Dofoot Typo	Defect I	Description		cs	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIV COATING	ENESS OF PROTECTIVE		2	2	:	2 Square Feet
	General Comments							

Spai	n 3		Near Bearing						
Mov	able Bearing								
Elen Num		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing		1	0	1	0	0	Each
515	Steel Pro	otective Coating		2	0	2	0	0	Square Feet
Element Number	Dofoot Typo		Defect Description			cs	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST				2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED E COATING	FFECTIVENESS OF PF	ROTECTIVE		2	2		2 Square Feet

General Comments

Spa	an 3			Near Bearing						
Мо	vable Bea	ring								
	ement imber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable	Bearing		1	0	1	0	0	Each
515		Steel Pr	otective Coating		2	0	2	0	0	Square Feet
Eleme	Dofo	ct Type		Defect Description			CS	CS Qty	Maint Qty	
311	Corrosion		FRECKLED RUST				2	1	-	Each
515	Effectivene Protective		2 SF. OF LIMITED E COATING	FFECTIVENESS OF PI	ROTECTIVE		2	2		2 Square Feet
	General Co	mments								

Spa	ın 3	Far Bearing	9					
Fixe	ed Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Elemen Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE CORROSION			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTION	TIVE COATING		3	2		2 Square Feet
	General Comments							

End	l Bent 1	Abutment						
Rei	nforced Concrete	Abutment						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinfor	ced Concrete Abutment	47	34	11	2	-	-eet
Elemer Numbe	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
215	Cracking (RC and Other)	2 S.F. OF HAIRLINE MAP CRACKIN OVERHANG	G UNDER WEST		3	2	2	Feet
215	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK IN	I BAY 2		2	1	1	Feet
215	Cracking (RC and Other)	3 - 12" VERTICAL HAIRLINE CRACK	KS IN BAY 1		2	3	3	Feet
215	Cracking (RC and Other)	3 - 36" LONG VERTICAL HAIRLINE	CRACKS IN BAY 3		2	3		Feet
215	Delamination/Spall	12" X 3" DELAMINATION IN BAY 2			2	1	1	Feet
215	Delamination/Spall	12" X 3" DELAMINATION IN BAY 3			2	1	1	Feet
215	Delamination/Spall	12" X 3" DELAMINATION UNDER EA	AST OVERHANG		2	1	1	Feet
215	Delamination/Spall	8" X 3" DELAMINATION IN BAY 1			2	1	1	Feet

General Comments

En	d Bent 1	Cap 1						
Rei	inforced Concrete	e Pier Cap						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfo	rced Concrete Pier Cap	40	33	7	0	0 Feet	
Eleme Numb	Dofoct Typo	Defect Descr	ription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK I	JNDER BAY 2		2	1	1 Fe	et
234	Cracking (RC and Other)	3 - 12" VERTICAL HAIRLINE CRAC	CKS UNDER BAY 1		2	3	3 Fe	et
234	Cracking (RC and Other)	3 - 12" VERTICAL HAIRLINE CRAC	CKS UNDER BAY 3		2	3	3 Fe	et
	General Comments							

Bent 1		Cap 1								
Reinforced Concrete Pier Cap										
	ement mber Reinfor	Element Name Qty Reinforced Concrete Pier Cap 30			CS2 Qty 12	CS3 Qty 0	CS4 Qty 0 Feet			
Eleme	Dofoct Typo	Defect Descript	ion		cs	CS Qty	Maint Qty			
234	Cracking (RC and Other)	2 - 36" VERTICAL HAIRLINE CRACKS UNDER BAY 3	S IN NORTH FAC	CE	2	2	6 Feet			
234	Cracking (RC and Other)	36" DIAGONAL HAIRLINE CRACK IN BEAM 3	SOUTH FACE U	INDER	2	3	Feet			
234	Cracking (RC and Other)	36" VERTICAL HAIRLINE CRACK IN S BAY 1	SOUTH FACE UI	NDER	2	1	3 Feet			
234	Cracking (RC and Other)	6 - 24" LONGITUDINAL HAIRLINE CR EFFLORESCENCE IN BOTTOM OF C COLUMNS 1 AND 2			2	6	Feet			

General Comments

Bent 1		Pile	1					
Reinforce	ed Concrete	Column						
Element Number		Element Name	Total Qty		CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 1	Each
lement Number	Defect Type	De	fect Description		cs	CS Qty	Maint Qty	
205 Delan	nination/Spall	8" DIAMETER X 1" DEEF	SPALL IN NORTHWEST	CORNER	3	1	1	Each
Genera	al Comments							

		Pile 2						
ed Concrete	Column							
	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinfor	ced Concrete Column		1	0	0	1	0 E	ach
Defect Type		Defect Description			cs	CS Qty	Maint Qty	
king (RC and	2 - 96" VERTICAL (CRACKS UP TO 1/16" \	WIDE IN EA	ST FACE	3	1	16	Each
	Reinfor Defect Type ting (RC and	Reinforced Concrete Column Defect Type ting (RC and 2 - 96" VERTICAL C)	Element Name Reinforced Concrete Column Defect Type Defect Description sing (RC and 2 - 96" VERTICAL CRACKS UP TO 1/16" V)	Reinforced Concrete Column 1 Defect Type Defect Description sing (RC and 2 - 96" VERTICAL CRACKS UP TO 1/16" WIDE IN EA ()	Element Name CS1 Qty Qty	Element Name Total CS1 CS2 Qty Qty	Total CS1 CS2 CS3 Qty Qt	Total CS1 CS2 CS3 CS4

General Comments

End	End Bent 2							
Rei	nforced Concrete	Abutment						
	ment mber Reinfor	Element Name ced Concrete Abutment	Total Qty 47	CS1 Qty 41	CS2 Qty 6	CS3 Qty 0	CS4 Qty 0 Feet	
Elemer Numbe	Dofoot Typo	Defect Descri	otion		cs	CS Qty	Maint Qty	
215	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK IN	I BAY 3		2	1	1 Feet	
215	Cracking (RC and Other)	2 - 12" VERTICAL HAIRLINE CRACK	(S IN BAY 1		2	2	2 Feet	
215	Delamination/Spall	10" X 3" DELAMINATION IN BAY 1			2	1	1 Feet	
215	Delamination/Spall	10" X 4" DELAMINATION UNDER W	EST OVERHANG		2	1	1 Feet	
215	Delamination/Spall	2" DIAMETER X 1/2" DEEP SPALL U OVERHANG	JNDER WEST		2	1	1 Feet	
	General Comments							_

FIRE DAMAGE IN BAY 2

End Bent 2		Cap 1						
Rein	forced Concrete	Pier Cap						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfo	rced Concrete Pier Cap	40	35	3	2	0 F	eet
lement lumber	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
	Cracking (RC and Other)	2 S.F. OF VERTICAL AND HORIZO 1/16" WIDE UNDER BAY 1	ONTAL CRACKS UP	ТО	3	2	2	Feet
	Cracking (RC and Other)	18" VERTICAL HAIRLINE CRACK	UNDER BAY 1		2	1	2	Feet
	Cracking (RC and Other)	2 - 12" VERTICAL HAIRLINE CRAC	CKS UNDER BAY 3		2	2	2	Feet

Keir	forced Concrete	e Pier Cap						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	30	15	15	0	0 F	eet
Elemen Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK IN SOUTH FACE UNDER WEST OVERHANG			2	1	1	Feet
234	Cracking (RC and Other)	3 - 18" VERTICAL HAIRLINE CRA UNDER BAY 1	ACKS IN SOUTH FACE	Ī	2	3	6	Feet
234	Cracking (RC and Other)	36" VERTICAL HAIRLINE CRACK BEAM 2	(IN NORTH FACE UN	DER	2	1	3	Feet
234	Cracking (RC and Other)	36" VERTICAL HAIRLINE CRACK BEAM 3	(IN NORTH FACE UN	DER	2	1	3	Feet
234	Cracking (RC and Other)	8 - 24" LONGITUDINAL HAIRLINE EFFLORESCENCE IN BOTTOM (COLUMNS 1 AND 2			2	8	16	Feet
234	Exposed Rebar	3" DIAMETER X 1" DEEP SPALL EAST FACE	WITH EXPOSED REB	AR IN	2	1	1	Feet

Ber	nt 2	Pile 1						
Rei	nforced Concrete	Column						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	1	0	0	Each
Elemer Numbe	Defeat Type	Defect De	scription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	48" VERTICAL HAIRLINE CRAC	K IN NORTH FACE		2	1		4 Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1591
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1414
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2520
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	80
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	80
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	80
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	80
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	80
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	80
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	32
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2240
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1591
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1414
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1		Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	9
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	47
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	9
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	47

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 770160 Inspection Date: 05/16/2019

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
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	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		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	F		
Superstructure Paint Code		U		

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	Υ
Inspection Time	Hours	9
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

Grade

Maint Code

Qty.

Structure Number: 770160 Inspection Date: 05/16/2019

Details

Item



Span 3 Right Bridge Rail: MULTIPLE GOUGES UP TO 6" X 1" IN RAIL



Expansion Joint: 3 FEET DEBRIS IMPACTION



Span 2 Right Bridge Rail: MULTIPLE GOUGES UP TO 6" X 1" IN RAIL



End Bent 1 Abutment/Backwall : 12" X 3" DELAMINATION IN BAY 3



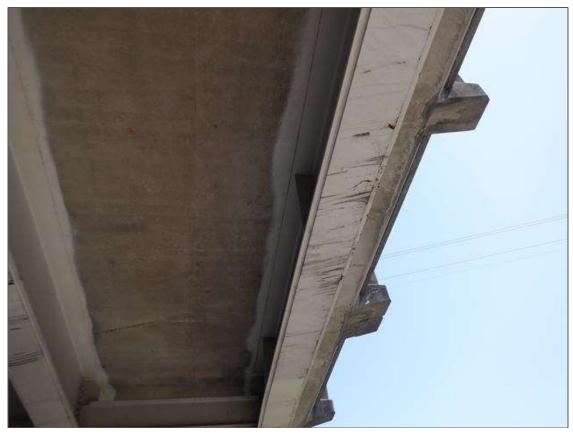
Span 1 Deck: 500 SF. OF TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/16" WIDE WITH EFFLORESCENCE IN BOTTOM OF DECK



Span 1 Deck: 12 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG



End Bent 1 Abutment/Backwall: 8" X 3" DELAMINATION IN BAY 1



Span 2 Beam 4: 10 FEET OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FEET FROM BENT 2



Span 1 Beam 4 Far Bearing: WEST ANCHOR BOLT LEANING TOWARDS SOUTH PAR



Span 1 Beam 1: 1 FOOT OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR



Span 1 Beam 1 Far Bearing: EAST ANCHOR BOLT LEANING TOWARDS SOUTH PAR



END DIAPHRAGM WEST OVERHANG AT BENT 1: 24" X 8" X 5" DEEP SPALL WITH EXPOSED REBAR IN SOUTH FACE



Span 2 Beam 1: 1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1



Span 2 Beam 3: BEAM 3 IN SPAN 2 OVER WEST BOUND LANE IS BOWED 1" @ POINT OF IMPACT OF 19FT FROM NORTH END OF BEAM.



Span 2 Beam 4: BOTTOM FLANGE OF BEAM 4 IN SPAN 2 IS BOWED DOWNWARD 1/4" OVER WEST BOUND THRU LANE.



Span 2 Beam 1: 10 FT. OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 2



Bent 1 Cap 1: 6 - 24" LONGITUDINAL HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF CAP BETWEEN COLUMNS 1 AND 2



Bent 1 Cap 1: 36" DIAGONAL HAIRLINE CRACK IN SOUTH FACE UNDER BEAM 3



Bent 1 Pile 1: 8" DIAMETER X 1" DEEP SPALL IN NORTHWEST CORNER



END DIAPHRAGM BAY 2 AT BENT 2: 12" X 4" X 1" DEEP SPALL IN NORTH FACE



Bent 2 Cap 1: 3" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR IN EAST FACE



FIRE DAMAGE IN BAY 2 ABUTMENT 2



FIRE DAMAGE IN SPAN 3 BAY 2 BOTTOM OF DECK



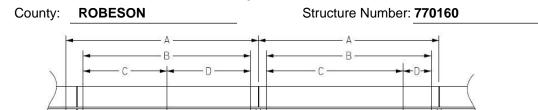
End Bent 2 Abutment/Backwall: 10" X 4" DELAMINATION UNDER WEST OVERHANG



End Bent 2 Cap 1: 2 S.F. OF VERTICAL AND HORIZONTAL CRACKS UP TO 1/16" WIDE UNDER BAY 1

Structure Data Worksheet

Span Profile



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

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	50.500	48.500			
2	80.000	78.500			
3	50.500	48.500			



COVER PHOTO LOOKING NORTH



LEFT RAIL RIGHT RAIL SIMILAR



SOUTH APPROACH



LOOKING WEST



LOOKING EAST



NORTH APPRROACH



LOOKING SOUTH



NE GUARDRAIL TRANSITION



NE GUARD RAIL POST SPACING



NE GUARD RAIL MID POST SPACING



NE GUARD RAIL END TERNINAL



EAST ELEVATION



ABUTMENT 1



ABUTMENT 1 BEAM 3 BEARING



BENT 1



SPAN 1 SUPERSTRUCTURE



BENT 1 BEAM 4 BEARING



SPAN 2 WEST BOUND THRU LANE



SPAN 2 EAST BOUND THRU LANES



WEST ELEVATION



VERTICAL CLEARANCE SIGN 1000 FEET WEST OF BRIDGE STRUCTURE



VERTICAL CLEARANCE SIGN ADJACENT TO BRIDGE STRUCTURE

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770160 County ROBESON Date:

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

	<u>-</u>				
MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3334	Bridge Bearings	EA	1	Span 1 Beam 1 Far Bearing: EAST ANCHOR BOLT LEANING TOWARDS SOUTH PAR	
3334	Bridge Bearings	EA	1	Span 1 Beam 4 Far Bearing: WEST ANCHOR BOLT LEANING TOWARDS SOUTH PAR	
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR	

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770160 County ROBESON

MMS Code MMS Description

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

Quantity

					<u> </u>	
3334	Brid	lge Bearin	gs		1	EA
Location:						
			Bent/Span No.			
Priority Leve	el		Status			
Priority Mair	ntenan	ce	Division Maintenance Work In Pro	ocess		
Submitted D	ate:	Submitte	d By:	Assisted By:		
05/16/2019		JOHN E	UBANKS			
Details						
MMS Code	MN	//S Descrip	otion		Quantity	
3334	Brid	ge Bearin	gs		1	EA
Location:						
			Bent/Span No.			
Priority Leve	el		Status			
Priority Mair	ntenan	се	Division Maintenance Work In Pro	ocess		
Submitted D	ate:	Submitte	d By:	Assisted By:		
05/16/2019		JOHN E	JOHN EUBANKS			
Details						
Span 1 Bea	m 4 Fa	ar Bearing	: WEST ANCHOR BOLT LEANING	TOWARDS SOUTH PAR		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770160 County ROBESON

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

MMS Code	MMS Description			Quantity		
3314	Mai	ntain Stee	Superstructure Components		1	LF
Location:						
			Bent/Span No.			
Priority Level Status						
Recommend	ded		Routine Maintenance			
Submitted D	ate:	Submitte	d By:	Assisted By:		
05/20/2019		JOHN E	UBANKS			
Details	Details					
Span 1 Bea AT BENT 1		FT. OF C	ORROSION WITH 11/16" REMAIN	IING SECTION IN WEB AROUND E	ND DIAPHR	AGM



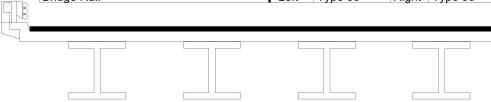
Roadway	23.5 ft Wide	2 Paved Lanes	Looking South
Left Shoulder	2.667ft Wide	2.667ft Paved	
Right Shoulder	2.667ft Wide	2.667ft Paved	
Left Guardrail	2.667ft from road		
Right Guardrail	2.667ft from road		

MEASUREMENTS TAKEN AT END BENT 2

MEASUREMENTS UPDATED 5/16/2019 BY JTE MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title		Descr	iption			
APPROACH ROADWAY			LOOKING NORTH			
Bridge No: 77016	Drawn By: RLK		Date: 5/23/2011	File Name: \$0098000568		

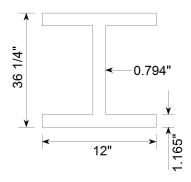
Deck Width/Out to Out 33.417ft			Between Rails			
Clear Roadway	28ft	Wearin	g Surface			0.292ft
Median Width		Mediar	Median Height			
Curb Height		Left	0.67ft	Right	0.6	7ft
Sidewalk Width	Sidewalk Width			Right		
Clear Roadway (Rail to Median)	Clear Roadway (Rail to Median)			Right		
Guardrail Width	Left	2.708ft	Right	2.70	O8ft	
Top of Rail to Deck/Wearing Su	Left	2.55ft	Right	2.5	5ft	
Bridge Rail	Left	Type 33	Right	Тур	e 33	



Measurements for Span #	1	SPANS 2 & 3 SIMILAR	
Deck Thickness	0.604	Left Overhang	4.708
Top of Rail to Bottom of Beam	6.3	Right Overhang	4.708

Beam Number	Beam Type	Spacing	Comments	
1	Steel I Beam	8ft		
2	Steel I Beam	8ft		
3	Steel I Beam	8ft		
4	Steel I Beam	ft		

ALL BEAMS HAVE TAPERED FLANGES SPAN 2 BEAMS HAVE COVERPLATE ON BOTTOM FLANGE

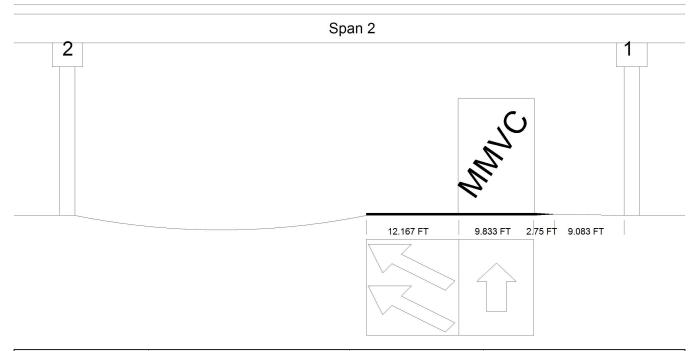


SPANS 1 AND 3

SPAN 2

MEASUREMENTS UPDATED 5/16/2019 BY JTE MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title		Descri	ption	
SUPERSTRUCTURE		SIMILAR SECTION		
Bridge No: 770160	Drawn By: RBH		Date: 01/01/08	File Name: \$0098000569



Roadway 1		Direction of Traffic	East		
Distance to Left Rail		Distance to Right Rail			
Distance to Left Toe of Slope		Distance to Left Bent	50.417FT		
Distance to Right Toe of Slope		Distance to Right Bent	11.833FT		
MMVC	14.9 Ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT				
MVC 14.5 Ft at Beam 1, 0 FT from LEFT EDGE OF TRAVEL LANES					

MEASUREMENTS UPDATED 5/16/2019 BY JTE
MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title		Description			
SPAN 2 EBL CLEARANCE		SPAN 2 EBL			
Bridge No: 770160	Drawn By: RLK		Date: 5/21/2013	File Name: \$0098000570	

Cap Information Material Cast-in-Place Concrete												
Lengt	h Width	Height	Left Over	hang	Right Overhang Left Bea		eam to End of Cap. Rig		Righ	ht Beam to End of Cap.		
29.500 ft. 2.500 ft. 3.000 ft. 5.000 ft.		5.000 ft. 1.8		865 ft.		1	1.865 ft.					
Subcap Information Material												
Lengt	h Width	Height	Left Over	hang	Right Overh	t Overhang Left Pile		le to Spli	ce.			
Sill Info	Sill Information Material											
Lengt	Length Width Height											
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orie	ntation	Driven?	Replaceme	ent?	Removed?	Collar?
1	Concrete	19.5 ft.	3 ft.	2.5 ft.		Vert	ical	No	No		No	No
2	Concrete		3 ft.	2.5 ft.		Vert	ical	No	No		No	No
	SUREMENTS \											
Bent/Abutment #: 1 Similar Bents: 2 Title MEASUREMENTS VERIFIED 5/9/2017 BY DRW Description												
11116	Title MEASUREMENTS VERIFIED 5/9/2017 BY DRW Description											

BENT 1

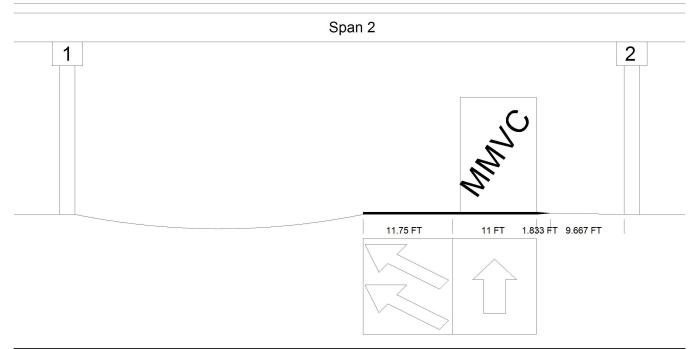
Date: 6/4/2009

File Name: S0098000824

SUBSTRUCTURE

Bridge No: 770160

Drawn By: RLK



Roadway 1		Direction of Traffic	West			
Distance to Left Rail		Distance to Right Rail				
Distance to Left Toe of Slope		Distance to Left Bent	49.583FT			
Distance to Right Toe of Slope		Distance to Right Bent	11.5FT			
MMVC	14.5 Ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT					
MVC 14.4 Ft at Beam 1, 0 FT from LEFT EDGE OF TRAVEL LANES						

MEASUREMENTS UPDATED 5/16/2019 BY JTE MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title		Description					
SPAN 2 WBL CLEARANC	E	SPAN 2 WBL CLEARANCE					
Bridge No: 770160	Drawn By: RLK	Date: 5/21/2013	File Name: \$0098001414				