

ATTENTION: PRIORITY ACTION REQUEST, TYPICAL SECTION SKETCH REVISED, UNDERCLEARANCE SKETCHES

REVISED

# **Structure Safety Report**

### **Routine Element Inspection - Contract**

**INSPECTION DATE**: 10/13/2020

		1140	or Edition Dr	10/13/2020			
DIVISION: 7	COUNTY: ROC	KINGHAM	STRUC	TURE NUMBER: 780108	FRE	QUENCY: 24 MONT	THS
FACILITY CARRIED:	US311,NC70	)			MILE POST	=	
LOCATION: 0.41 M	I. W. JCT. SR19	162					
FEATURE INTERSE	CTED: US311, I	NC14, NC87,NC77	0				
LATITUDE: 36° 30	25.2"	լ	ONGITUDE:	79° 44' 41.64"			
SUPERSTRUCTURE	i:						
SUBSTRUCTURE:							
SPANS: 3 SPANS	S. SEE SPAN P	ROFILE SHEET F	OR SPAN D	ETAILS			
FRACTURE CR	ITICALT	EMPORARY SHO	RING	SCOUR CRITICAL	SCOUR	PLAN OF ACTION	
NBI GRADES:	DECK 5	SUPERSTRUCT	URE 5	SUBSTRUCTURE 4	CULVER	RT N	
POSTED SV: Not i	Posted			POSTED TTST: Not Po	osted		
					Sign notice issued for		Number Required
-	4				NO	WEIGHT LIMIT	0
Maria de la constante de la co	1				NO	DELINEATORS	0
			1		NO	NARROW BRIDGE	0
sies.				T C	NO	ONE LANE BRIDGE	0
	W.			E Aver de	NO	LOW CLEARANCE	0
			-				
						CTION OF W-E	
7		House Remark				ECTION HES PLANS	
WEST APPROACH	4						
INSPECTED BY JOSH B. WHITE, PE		SIGNATURE		DL B.WL	ASSISTED B	Y JWD	

IDENTIFICATION		-		12/11/2020
(1) STATE NAME NORTH CAROLINA BRIDGE	780108	SUFFICIENCY RATING		49.00
(8) STRUCTURE NUMBER (FEDERAL)	1570108	STATUS =	Structur	rally Deficient
(5) INVENTORY ROUTE (ON/UNDER) ON	121003110		CLASSIFICATION	_ CODE
(2) STATE HIGHWAY DEPARTMENT DISTRICT	7 20080	(112) NBIS BRIDGE SYSTEM		YES
(3) COUNTY CODE (FEDERAL) 157 (4) PLACE CODE (6) FEATURE INTERSECTED US311, NC14, NC87,NC770	20080	(104) HIGHWAY SYSTEM	Inventory Route not on Ni	dS 0
(7) FACILITY CARRIED US311,NC700		(26) FUNCTIONAL CLASS	Urban Minor Collect	or 16
(9) LOCATION <b>0.41 MI. W. JCT. SR1962</b>		(100) STRAHNET HIGHWAY	Not a STRAHNET Rou	ite 0
(11) MILEPOINT	0.0	(101) PARALLEL STRUCTURE	No parallel structure exis	sts N
(12) BASE HIGHWAY NETWORK	0	(102) DIRECTION OF TRAFFIC	2-way traf	fic 2
(13) LRS INVENTORY ROUTE & SUBROUTE (16) LATITUDE 36° 30' 25.2" (17) LONGITUDE	79° 44' 41.64"	(103) TEMPORARY STRUCTUR	RE	
(98) BORDER BRIDGE STATE CODE PERCENT SHARE		(110) DESIGNATED NATIONAL	NETWORK - on natiional network for truc	ks 1
(99) BORDER BRIDGE STRUCTURE NUMBER		(20) TOLL	On Free Ro	ad 3
		(21) MAINT -		01
STRUCTURE TYPE AND MATERIAL ——	Ctool	• '		01
(43) STRUCTURE TYPE MAIN  TYPE Stringer/Multi-beam or girder CC	<b>Steel</b> ODE <b>302</b>	(22) OWNER -		
	JDE 302	(37) HISTORICAL SIGNIFICANO		5
(44) STRUCTURE TYPE APPROACH	ODE	(E9) DECK	CONDITION	— CODE
	ODE	(58) DECK		5
(45) NUMBER OF SPANS IN MAIN UNIT	3	(59) SUPERSTRUCTURE		5
(46) NUMBER OF SPANS IN APPROACH	0	(60) SUBSTRUCTURE		4
(107) DECK STRUCTURE TYPE CC	ODE 1	(61) CHANNEL & CHANNEL PR	COTECTION	N
(108)WEARING SURFACE/PROTECTIVE SYSTEM		(62) CULVERTS		N
. ,	DDE 6		RATING AND POSTING ———	CODE
	ODE 0	(31) DESIGN LOAD	H 20 + M	
(C) TYPE OF DECK PROTECTION CC	ODE 0	(63) OPERATING RATING MET	HOD - Load Fact	or 1
AGE AND SERVICE		(64) OPERATING RATING -	HS-	38 69
(27) YEAR BUILT	1957	(65) INVENTORY RATING MET	HOD -	1
(106) YEAR RECONSTRUCTED	0	(66) INVENTORY RATING	HS-	23 41
(42) TYPE OF SERVICE ON - Highway	y - Pedestrian	(70) BRIDGE POSTING	No Posting Require	ed 5
OFF - <b>Highway</b> CC	DDE <b>51</b>	(41) STRUCTURE OPEN, POST	TED, OR CLOSED	Α
(28) LANES ON STRUCTURE 4 LANES UNDER STRUCTURE	RE 4	DESCRIPTION	Open, no restriction	n
(29) AVERAGE DAILY TRAFFIC	9300		APPRAISAL	_ CODE
(30) YEAR OF ADT <b>2017</b> (109) TRUCK ADT PCT	6	(67) STRUCTURAL EVALUATIO	ON	4
(19) BYPASS OR DETOUR LENGTH	0.0	(68) DECK GEOMETRY		2
GEOMETRIC DATA		(69) UNDERCLEARANCES, VE	RT & HORIZ	3
(48) LENGTH OF MAXIMUM SPAN	70.0	(71) WATERWAY ADEQUACY		4
(49) STRUCTURE LENGTH	159.0	(72) APPROACH ROADWAY AL	LIGNMENT	2
(50) CURB OR SIDEWALK: LEFT 5.0 RIGHT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB	5.0 52.0	(36) TRAFFIC SAFETY FEATUR	RES	0000
(52) DECK WIDTH OUT TO OUT	64.4	(113) SCOUR CRITICAL BRIDG	EES	N
(32) APPROACH ROADWAY WITH (W/ SHOULDERS)	61.0	PROP	OSED IMPROVEMENTS	
(33) BRIDGE MEDIAN No median CODE	E 0	(75) TYPE OF WORK	C	ODE
(34) SKEW <b>0</b> (35) STRUCTURE FLARED	0	(76) LENGTH OF STRUCTURE	IMPROVEMENT	
(10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR	999.9 52.0	(94) BRIDGE IMPROVEMENT C	COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9	(95) ROADWAY IMPROVEMEN	T COST	
(54) MIN VERT UNDERCLEAR: REFERENCE H	14.4	(96) TOTAL PROJECT COST		
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE H	4.0	(97) YEAR OF IMPROVEMENT	COST ESTIMATE	
(56) MIN LAT UNDERCLEARANCE LT:	99.9	(114) FUTURE ADT	18,600 YEAR OF FUTURE ADT	2040
NAVIGATION DATA		(,. 5.5KE7.51	INSPECTION	2040
	DDE N	(90) INSPECTION DATE	<b>10/20</b> (91) FREQUENC	CY <b>24</b>
	DDE	(92) CRITICAL FEATURE INSPE	ECTION (93) CFI	DATE
(111) PIER PROTECTION CO			A.II.	
(111) PIER PROTECTION CO (39) NAVIGATION VERTICAL CLEARANCE	0.0	A) FRACTURE CRIT DETA	AIL A)	
	0.0 0.0	A) FRACTURE CRIT DETA B) UNDERWATER INSP	B)	
(39) NAVIGATION VERTICAL CLEARANCE			В)	

			Vertical				_			raffic	)ce			See N	lote Be	low			E	
Span Number	Facility Carried	Inventory Route	Maximum Minimum Ver Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily T	Total Horizontal Clearance	Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	aran	Underclearance Appraisal Grade	STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	US311S,NC14S,NC87S,NC770W	21003110	14.8	0.0	1	30014	14	2	14000	2017	61.5	Н	14.4	4.3	34.5	3		1		
2	US311S,NC14S,NC87S,NC770W	21003110	14.8		1	30014	14	2	7500	2018	61.5	Н	14.4	4.0	99.9	3	þ	1		
2	NC14N,NC87N	31000140	14.8	0.0	1	30014	14	2	14000	2017	61.5	Н	14.3	4.0	33.0	3		1		
2	NC14N,NC87N	31000140	14.8		1	30014	14	2	7500	2018	61.5	Н	14.3	4.0	99.9	3	þ	1		

## **Superstructure Build Details**

Span Number  $\underline{1}$ 

**Span Length** <u>44.0000</u>

**Skew** 90.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
18	Other Bearing	Other Bearings	18	Each	Unknow	18
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2834	Square Feet		
9	Plate Girder	Steel Open Girder/Beam	387	Feet	Legacy Red Lead Primer Systems with Various Topcoats	2178
1	Asphalt Wearing Surface	Wearing Surface	2288	Square Feet		
2	Concrete and Metal Railing	Other Bridge Railing	88	Feet		

Span Number  $\underline{2}$ 

**Span Length** <u>71.0000</u>

**Skew** 90.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
9	Plate Girder	Steel Open Girder/Beam	630	Feet	Legacy Red Lead Primer Systems with Various Topcoats	3600
18	Other Bearing	Other Bearings	18	Each	Unknow	18
1	Reinforced Concrete Deck	Reinforced Concrete Deck	4573	Square Feet		
2	Concrete and Metal Railing	Other Bridge Railing	142	Feet		
1	Asphalt Wearing Surface	Wearing Surface	3692	Square Feet		
1	Standard Joint	Pourable Joint Seal	65	Feet		

Span Number 3

Span Length <u>44.0000</u>

**Skew** 90.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	2288	Square Feet		
1	Standard Joint	Pourable Joint Seal	65	Feet		
2	Concrete and Metal Railing	Other Bridge Railing	88	Feet		
9	Plate Girder	Steel Open Girder/Beam	387	Feet	Legacy Red Lead Primer Systems with Various Topcoats	2178
18	Other Bearing	Other Bearings	18	Each	Unknow	18
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2834	Square Feet		

# **Structure Element Scoring**

Structure Number:  $\frac{780108}{\underline{0}}$  Inspection Date  $\frac{10/13/202}{\underline{0}}$ 

Element Number	Parent Number		Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	10241	4696	3830	1715	0
107	0	Steel Open Girder/Beam	Beam	1404	0	1376	17	11
515	107	Steel Protective Coating	Beam	7956	5603	578	270	1505
205	0	Reinforced Concrete Column	Piles and Columns	18	10	1	7	0
215	0	Reinforced Concrete Abutment	Abutments	130	26	100	4	0
234	0	Reinforced Concrete Pier Cap	Caps	244	0	143	96	5
301	0	Pourable Joint Seal	Expansion Joints	130	120	0	10	0
316	0	Other Bearings	Bearing Device	54	13	1	39	1
515	316	Steel Protective Coating	Bearing Device	54	13	0	1	40
333	0	Other Bridge Railing	Bridge Rail	318	125	188	5	0
510	0	Wearing Surface	Wearing Surfaces	8268	6942	136	1190	0

# **Summary of Maintenance Needs**

## Maintenance By Defect

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	5350 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	35 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	125 Square Feet
3314	Steel Open Girder/Beam	Distortion	4 Feet
3314	Steel Open Girder/Beam	Damage	69 Feet
3314	Steel Open Girder/Beam	Corrosion	24 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	90 Each
3348	Reinforced Concrete Column	Exposed Rebar	27 Each
3348	Reinforced Concrete Column	Delamination/Spall	7 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	4 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	13 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	81 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	71 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	3 Feet
3334	Other Bearings	Loss of Bearing Area	1 Each
3334	Other Bearings	Corrosion	37 Each
3334	Other Bearings	Connection	2 Each
3318	Other Bridge Railing	Patched Area	4 Feet
3318	Other Bridge Railing	Connection	2 Feet
2816	Wearing Surface	Delamination/Spall (Wearing Surfaces)	2 Square Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	16 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	1174 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	1816 Square Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	578 Square Feet

## **Element Structure Maintenance Quantities**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	4	130	0	4	100	26
Beam	3314	Maintenance Steel Superstructure Components	97	1404	11	17	1376	0
Beam	3342	Clean and Paint Steel	2353	7956	1505	270	578	5603
Bearing Device	3334	Bridge Bearing	40	54	1	39	1	13
Bearing Device	3342	Clean and Paint Steel	41	54	40	1	0	13
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	6	318	0	5	188	125
Caps	3348	Maintenance of Concrete Substructure	168	244	5	96	143	0
Deck	3326	Maintenance of Concrete Deck	5510	10241	0	1715	3830	4696
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	130	0	10	0	120
Piles and Columns	3348	Maintenance of Concrete Substructure	124	18	0	7	1	10
Wearing Surfaces	2816	Asphalt Surface Repair	1192	8268	0	1190	136	6942

# **Priority Actions Request**

O			
Structure Num	ber <u>780108</u>		
Span1	D 0	Dista Cindan	
3314	Beam 9	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 9: PAR: 2 1/2" X 3 1/2" HOLE IN LEFT STIFFENER AT DIAPHRAGM AT BENT 1
Span2			
3326	Deck	Reinforced Co	ncrete Deck
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Span 2 Deck: PAR: 18" X 12" X 2" DEEP SPALL WITH EXPOSED REBAR WITH
2	Exposed Rebar	9	SECTION LOSS IN BAY 1 OVER FIRST DIAPHRAGM  Span 2 Deck: PAR: 3' DIAMETER X 2" DEEP SPALL WITH EXPOSED REBAR  WITH SECTION LOSS IN BAY 1 AT 2ND UTILITY HANGER
2	Exposed Rebar	6	Span 2 Deck: PAR: 30" X 20" X 2" DEEP SPALL WITH EXPOSED REBAR WITH
2	Exposed Rebar	5	SECTION LOSS IN BAY 1 AT 5TH UTILITY HANGER Span 2 Deck: PAR: 5' X 8" X 5" SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 8 DIAPHRAGM OVER BENT 2
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 1: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON FULL HEIGHT
2	Corrosion	1	OF WEB UNDER DIAPHRAGM FOR 8" LONG AT BENT 1 Span 2 Beam 1: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON TOP 3" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2
2	Connection	1	Span 2 Beam 1 - Beam 1 Near Bearing: PAR: MISSING RIGHT ANCHOR BOLT NUT
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	2	Span 2 Beam 4: PAR: at 22ft-11in from bent 1 bearing, impact damage - bottom flange bent upward 2-1/2in with lower web buckled [up to 1-1/2in] and gouge in cover plate [1/8in deep]
3314	Beam 7	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	2	Span 2 Beam 7: PAR: at 21ft-7in from Bent 1 bearing, impact damage - bottom flange bent upward 2-1/8in, web bent 1-1/4in with gouge in bottom flange [1/8in deep], diaphragm 12in east of impact bent at bottom bolts
3314	Beam 9	Plate Girder	
Priority			

2 Assigned Priority Maintenance 3 Assigned Critical Find

? Priority Action Request (PAR) 1 Assigned Routine Maintenance

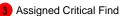
## **Priority Actions Request**

#### Structure Number 780108 2 Span 2 Beam 9: PAR: 3/4" X 3/4" HOLE IN LEFT STIFFENER AT DIAPHRAGM AT Corrosion 2 Corrosion Span 2 Beam 9: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON TOP 2 1/2" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2 WITH 3/4" REMIANING (3/16" SECTION LOSS) ON BOTTOM FLANGES FOR 1' AT BENT 2 3318 Concrete and Metal Railing Right Bridge Rail **Priority** Quantity Level **Defect Type Defect Description** (2) Connection Span 2 Right Bridge Rail: PAR: MISSING BOLT NUT ON LAST POST IN SPAN Span3 3326 Deck Reinforced Concrete Deck **Priority** Level **Defect Type** Quantity 2 Span 3 Deck: PAR: 30" X 15" X 2 1/2" DEEP SPALL WITH EXPOSED REBAR **Exposed Rebar** WITH SECTION LOSS IN BAY 7 AT 2' FROM END BENT 2 2 6 Span 3 Deck: PAR: 30" X 24" X 3" DEEP SPALL WITH EXPOSED REBAR WITH **Exposed Rebar** SECTION LOSS IN BAY 8 AT 8' FROM END BENT 2 3314 Beam 1 Plate Girder **Priority** Level **Defect Type** Quantity **Defect Description** (2) Corrosion Span 3 Beam 1: PAR: 7/16" REMAINING (3/16" SECTION LOSS) ON TOP 2" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2 3334 Plate Girder Beam 7 **Priority** Level **Defect Type** Quantity **Defect Description** Span 3 Beam 7 - Beam 7 Near Bearing: PAR: SHEARED AND BENT BOLTS FROM Loss of Bearing Area BEARING TO CAP DUE TO LARGE SPALL ON CAP UNDER GIRDER 3314 Plate Girder Beam 9 Priority Level **Defect Type** Quantity **Defect Description** 2 Span 3 Beam 9: PAR: 3/16" REMAINING (3/16" SECTION LOSS) IN LEFT Corrosion STIFFENER FOR FULL HEIGHT AT BENT 2 Bent 1 3348 Pile 3 Reinforced Concrete Column **Priority** Level **Defect Type** Quantity **Defect Description**









## **Priority Actions Request**

#### Structure Number 780108

2

Exposed Rebar

Bent 1 Pile 3: PAR: 9' X 8" X 8" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER

### Bent 2

3348	Cap 1	Reinforced Co	ncrete Pier Cap
Priority Level	Defect Type	Quantity	Defect Description
3	Exposed Rebar	5	Bent 2 Cap 1: PAR: 51" X 18" X 11" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS UNDER GIRDER 7 SPAN 3 WITH UP TO 6.5" DEEP LOSS OF BEARING
3348	Pile 2	Reinforced Co	ncrete Column
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Bent 2 Pile 2: PAR: 16" X 15" X 4" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON NORTHEAST CORNER AT TOP
2	Exposed Rebar	3	Bent 2 Pile 2: PAR: 3' X 10" X 11" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER AT TOP
3348	Pile 3	Reinforced Co	ncrete Column
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	3	Bent 2 Pile 3: PAR: 3' X 15" X 12" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON NORTHEAST CORNER
2	Exposed Rebar	3	Bent 2 Pile 3: PAR: 3' X 6" X 6" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER
2	Exposed Rebar	3	Bent 2 Pile 3: PAR: 30" X 11" X 2 1/2" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON WEST FACE
2	Exposed Rebar	4	Bent 2 Pile 3: PAR: 4' X 8" X 6" SPALL WITH EXPOSED REBAR WITH SECTION

LOSS ON SOUTHWEST CORNER

### **Element Condition and Maintenance Data**

Structure Number: 780108 Inspection Date: 10/13/2020

					1115	•	
an 1	Deck						
inforced Concrete I	Deck						
ement umber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinforce	ed Concrete Deck	2,834	1,032	1,751	51	0 S	quare Feet
ent er Defect Type	Defect Descri	otion		cs	CS Qty	Maint Qty	
Delamination/Spall	2' X 2' X 1" DEEP SPALL WITH EXP	POSED REBAR I	N BAY 8	3	4	4	Square Feet
Delamination/Spall	30" X 24" DELAMINATION IN BAY	8 NEAR END BE	NT 1	3	6	6	Square Feet
Delamination/Spall	7' X 5' AND 3' X 18" DELAMINATED ALONG UNDERSIDE	AREAS IN BAY	<b>/</b> 8	3	41	35	Square Feet
Cracking (RC and Other)	bottom of the deck has 1500 sq. ft. cracking thru out the span	of 1/32" wide m	ар	2	1,750	1,750	Square Feet
Patched Areas				2	1		Square Feet
i	ment mber  Reinforce  The Defect Type  Delamination/Spall  Delamination/Spall  Delamination/Spall  Cracking (RC and Other)	ment mber  Element Name Reinforced Concrete Deck  Tot  Defect Type  Delamination/Spall  Delamination/Spall  Delamination/Spall  Delamination/Spall  T' X 5' AND 3' X 18" DELAMINATION IN BAY 3' ALONG UNDERSIDE  Cracking (RC and Other)  Delamination of the deck has 1500 sq. ft. cracking thru out the span  bottom of the deck at bent 1 has a right flange of beam 9. 2 ft. long x 8	ment Element Name Qty Reinforced Concrete Deck  Total Qty Reinforced Concrete Deck 2,834  Total Reinforced Concrete Deck 2	ment Element Name Qty Qty Reinforced Concrete Deck  Total CS1 Qty Qty Reinforced Concrete Deck 2,834 1,032  Total CS1 Qty Qty Reinforced Concrete Deck 2,834 1,032  Total CS1 Qty Qty Reinforced Concrete Deck 2,834 1,032  Total CS1 Qty Qty Reinforced Concrete Deck 2,834 1,032  Total CS1 Reinforced Concrete Deck 2,834 1	ment Element Name Qty Qty Qty Reinforced Concrete Deck  Total CS1 CS2 Qty Qty Qty Reinforced Concrete Deck 2,834 1,032 1,751  Total CS1 CS2 Qty Qty Qty Reinforced Concrete Deck 2,834 1,032 1,751  Total CS1 CS2 Qty Qty Qty Reinforced Concrete Deck 2,834 1,032 1,751  Total CS1 CS2 Qty Qty Reinforced Concrete Deck 2,834 1,032 1,751  Total CS1 CS2  Total CS1 CS2  Total CS1 CS2  Total CS1 CS2  Total CS1  Total CS2  Total CS1  Tota	ment Element Name Qty Qty Qty Qty Qty Reinforced Concrete Deck 2,834 1,032 1,751 51  Total CS1 CS2 CS3 Qty	ment Element Name Qty

Spa	n 1	Beam 1						
Plate	e Girder							
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	43	0	42	1	0	Feet
515	Steel Pro	tective Coating	242	187	15	0	40	Square Feet
Elemen Number	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
107	Corrosion	1/16" section loss on the bottom face of bearing out 1 ft. long x ful	•		3	1	•	1 Feet
107	Corrosion	freckled rust on the flanges and the beam	web thru out the le	ngth of	2	42		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	40	40	Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the flan length of the beam	ges and web thru	out the	2	15	15	5 Square Feet

Spar	n 1	Beam 2						
Plate	e Girder							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	43	0	42	1	0	Feet
515	Steel Pro	tective Coating	242	204	18	0	20	Square Feet
Element Number	Dofoct Typo	Defect Desc	cription		CS	CS Qty	Maint Qty	
107	Corrosion	1/2" REMAINING (1/8" SECTION FOR 8" LONG AT BENT 1	LOSS) ON TOP 2"	OF WEB	3	1		1 Feet
107	Corrosion	freckled rust on the flanges and the beam	web thru out the le	ength of	2	42		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	e to rust		4	20	20	Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the flar length of the beam	nges and web thru	out the	2	18	18	Square Feet

Span 1	l	Beam 3						
Plate 0	Girder							
Elemen Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	n Girder/Beam	43	0	42	1	0	Feet
515	Steel Prot	ective Coating	242	200	12	0	30	Square Feet
Element Number	Defect Type	Defect Descr	iption		cs	CS Qty	Maint Qty	
107 Co	orrosion	1/2" REMAINING (1/8" SECTION L FOR 8" LONG AT BENT 1	.OSS) ON TOP 2" (	OF WEB	3	1	-	1 Feet
107 Co		freckled rust on the flanges and v the beam	veb thru out the le	ngth of	2	42		Feet
	fectiveness (Steel otective Coatings)	protective coating has failed due	to rust		4	30	3	0 Square Feet
ck	eeling/Bubbling/Cra ing (steel otective Coatings)	areas of peeling paint on the flang length of the beam	ges and web thru o	out the	2	12	1	2 Square Feet
-	neral Comments							

Spa	n 1	Beam 4						
Plat	e Girder							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	43	0	42	1	0	Feet
515	Steel Pro	tective Coating	242	190	12	0	40	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descrip	tion		cs	CS Qty	Maint Qty	
107	Corrosion	1/2" REMAINING (1/8" SECTION LOS FOR 8" LONG AT BENT 1	SS) ON TOP 2" (	OF WEB	3	1		1 Feet
107	Corrosion	freckled rust on the flanges and wel the beam	thru out the le	ngth of	2	42		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due to	rust		4	40	40	O Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the flanger length of the beam	s and web thru o	out the	2	12	12	2 Square Feet
(	General Comments							

Span	1	Beam 5						
Plate	Girder							
Eleme	ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	43	0	43	0	0 F	Feet
515	Steel Prof	ective Coating	242	190	12	0	40 \$	Square Feet
Element Number	Defect Type	Defect De	scription		cs	CS Qty	Maint Qty	
107	Corrosion	freckled rust on the flanges and the beam	d web thru out the le	ngth of	2	43		Feet
	Effectiveness (Steel Protective Coatings)	protective coating has failed d	ue to rust		4	40	40	Square Feet
	Peeling/Bubbling/Cra cking (steel	areas of peeling paint on the fl length of the beam	anges and web thru	out the	2	12	12	Square Feet
	Protective Coatings)							

Spa	n 1	Beam 6						
Plat	e Girder							
Nun	ment nber	Element Name	Total Qty 43	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Foot
107 515	·	en Girder/Beam tective Coating	43 242	0 182	42 15	0	-	Feet Square Feet
Elemen Numbe	t Defect Type	Defect Descrip		102		CS Qty	Maint	
107	Corrosion	1/2" REMAINING (1/8" SECTION LO FOR 8" LONG AT BENT 1		OF WEB	3	1	Qty	1 Feet
107	Corrosion	freckled rust on the flanges and we the beam	b thru out the le	ngth of	2	42		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due to	rust		4	45	45	5 Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the flange length of the beam	es and web thru o	out the	2	15	15	5 Square Feet
-	General Comments				-			

Spa	ın 1		I	Beam 7						
Plat	te Girder									
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Ope	n Girder/Beam		43	0	42	1	0	Feet
515		Steel Pro	ective Coating		242	190	12	0	40	Square Feet
Elemen Numbe	Dofoct T	уре		Defect Description			cs	CS Qty	Maint Qty	
107	Corrosion		1/2" REMAINING (1/ FOR 8" LONG AT B	8" SECTION LOSS) O ENT 1	N TOP 2"	OF WEB	3	1	•	1 Feet
107	Corrosion		freckled rust on the the beam	flanges and web thru	out the le	ength of	2	42		Feet
515	Effectiveness Protective Co	•	protective coating h	nas failed due to rust			4	40	40	Square Feet
515	Peeling/Bubb cking (steel Protective Co	J	areas of peeling pai length of the beam	nt on the flanges and	web thru	out the	2	12	12	2 Square Feet
	<b>General Comm</b>	nents								

Spa	ın 1	Beam 8						
Plat	te Girder							
<b>Nur</b> 107	·	Element Name en Girder/Beam	Total Qty 43	CS1 Qty 0	<b>CS2 Qty</b> 43	CS3 Qty 0	CS4 Qty 0 F	
515	Steel Pro	tective Coating	242	188	14	0	40 S	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
107	Corrosion	freckled rust on the flanges and v	eb thru out the le	ngth of	2	43		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	40	40	Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the flang length of the beam	ges and web thru o	out the	2	14	14	Square Feet
•	General Comments							

Spa	n 1	Beam 9						
Plate	e Girder							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	43	0	41	1	1	Feet
515	Steel Pro	tective Coating	242	187	10	0	45	Square Feet
Element Number	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
107	Corrosion	PAR: 2 1/2" X 3 1/2" HOLE IN LE DIAPHRAGM AT BENT 1	FT STIFFENER AT		4	1	1	1 Feet
107	Corrosion	1/16" section loss on the bottom face of bearing out 1 ft. long x fu remaining AND 1/2" REMAINING TOP 2" OF WEB FOR 8" LONG A	ıll width with 15/16" 5 (1/8" SECTION LO	1	3	1	1	1 Feet
107	Corrosion	freckled rust on the flanges and the beam	web thru out the le	ngth of	2	41		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	e to rust		4	45	45	Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the flat length of the beam	nges and web thru	out the	2	10	10	) Square Feet

Spa	an 1	Wearing Surface	се					
Asp	ohalt Wearing Surfa	ce						
	ment mber Wearing S	Element Name Surface	Total Qty 2,288	CS1 Qty 2,074	<b>CS2</b> <b>Qty</b> 12	<b>CS3 Qty</b> 202	<b>CS4</b> <b>Qty</b> 0 S	quare Feet
Elemer Numbe	Dofoct Typo	Defect Description	on		cs	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	1" TRANSVERSE CRACK OVER END	BENT 1		3	52	52	Square Feet
510	Crack (Wearing Surface)	1/8" wide map cracking thru out the to surface	op of the wea	ring	3	150	150	Square Feet
510	•	2 spalled areas in the wearing surface to 24" wide x 10" long x 1" deep	e over bent 1	joint up	2	4		Square Feet
510		8 sq. ft. of sound patches thru out the surface	top of the w	earing	2	8		Square Feet
	General Comments							

Spa	n 1	Left Bridg	e Rail					
Cor	ncrete and Metal F	Railing						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other B	Bridge Railing	44	17	27	0	0 Feet	
Elemer Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
333	Cracking (RC and Other)	1/32" wide vertical cracks thru	out the length of the	rail	2	27	Feet	
	General Comments							

Spa	ın 1	Right Brid	dge Rail					
Con	ncrete and Metal F	Railing						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other B	ridge Railing	44	12	28	4	0 Fee	et
Elemen Numbe	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty	
333	Patched Area	end bent 1, right side concrete patch with 1/8" wide longitudin corners of the bridge			3	4	4 1	<sup>=</sup> eet
333	Cracking (RC and Other)	1/32" wide vertical cracks thru	out the length of the r	ail	2	26	ŀ	-eet
333	Patched Area	sidewalk at end bent 1, patch, 2 1/16" wide cracking. The curb i			2	2	ſ	-eet
-	General Comments							

Spai	n 1	Beam 1 Nea	ar Bearing					
Othe	er Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Element Number	Dofoct Typo	Defect Descri	ription		CS	CS Qty	Maint Qty	
316	Corrosion	span 1, beam 1 near bearing has	1/16" section loss		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
(	General Comments							

Spa	an 1		Beam 1	Far Bearing					
Oth	ner Bearin	g							
	ement mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	earings	1	0	0	1	0	Each
515		Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Eleme	Dofor	ct Type	Defect D	escription		CS	CS Qty	Maint Qty	
316	Corrosion		span 1, beam 1 far bearing ha	as 1/16" section loss		3	1		1 Each
515	Effectiven Protective	ess (Steel Coatings)	protective coating has failed	due to rust		4	1		1 Square Feet
	General Co	mments							

Span 1 Other E	Bearing	Beam 2 F	ar Bearing					
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other	Bearings	1	0	1	0	0	Each
515	Steel	Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect De	scription		cs	CS Qty	Maint Qty	
316 Co	rrosion	span 1, beam 2 far bearing has	1/16" section loss		2	1	•	Each

4

1 Square Feet

515 Effectiveness (Steel protective coating has failed due to rust Protective Coatings)

General Comments

Span 1 **Beam 3 Far Bearing Other Bearing Element** Total CS1 CS2 CS3 CS4 Qty Number **Element Name** Qty Qty Qty Qty 316 Other Bearings 0 0 0 Each 515 Steel Protective Coating 0 0 0 1 Square Feet 1 Element Maint **Defect Type Defect Description** cs **CS Qty** Number Qty 316 Corrosion span 1, beam 3 far bearing has 1/16" section loss 3 1 Each 515 protective coating has failed due to rust 4 1 Square Feet Effectiveness (Steel 1 **Protective Coatings) General Comments** 

Spa	ın 1	Beam 4 Fa	r Bearing					
Oth	er Bearing							
Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	•
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 1, beam 4 far bearing has 1	/16" section loss		3	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
	General Comments							

Spa	ın 1	Beam 5 Fa	ar Bearing					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoot Tyme	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	span 1, beam 5 far bearing has	1/16" section loss		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed du	e to rust		4	1		1 Square Feet
	General Comments							

CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
<b>Qty</b> 0	Qty		Qty	•
-	0	1	0	Each
0	0	0	1	Square Feet
	cs	CS Qty	Maint Qty	
	3	1	•	1 Each
	4	1		1 Square Feet
		3	3 1	3 1

Spa	n 1	Beam 7 Fa	r Bearing					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 1, beam 7 far bearing has 1	/16" section loss		3	1	•	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
-	General Comments							

Spa	ın 1	Beam 8 N	ear Bearing					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
316	Corrosion	span 1, beam 8 near bearing ha	s 1/16" section loss		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed di	ue to rust		4	1		1 Square Feet
•	General Comments							

Spai Othe	n 1 er Bearing		Beam 8 Fa	r Bearing					
Elem Num 316		Element Other Bearings	Name	Total Qty 1	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515		Steel Protective Coatin	g	1	0	0	0	1	Square Feet
Element Number	Dofoct '	Гуре	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 1, bear	m 8 far bearing has 1	/16" section loss		3	1		1 Each
316	Connection	RAISED LEF MOVED BY		UT BUT CANNOT BE		2			1 Each

Structure Number: 780108 Inspection Date: <u>10/13/2020</u>

**General Comments** 

Effectiveness (Steel protective coating has failed due to rust Protective Coatings) 4 1 Square Feet

Spa	an 1	Beam 9 Nea	ar Bearing					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Elemen	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 1, beam 9 near bearing has	1/16" section loss		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
	<b>General Comments</b>							

Spa	an 1	Beam 9 Far	Bearing					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other	Bearings	1	0	0	1	0	Each
515	Steel	Protective Coating	1	0	0	1	0	Square Feet
Elemei Numbe	Dofoot Typo	Defect Descr	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 1, beam 9 far bearing has 1/	16" section loss		3	1		1 Each
515	Effectiveness (Stee Protective Coating		to rust		3	1		1 Square Feet
	<b>General Comments</b>							

Spa	an 2	Deck						
Rei	nforced Concrete	Deck						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfo	ced Concrete Deck	4,573	2,500	2,051	22	0 8	Square Feet
Elemer Numbe	Dofoot Tymo	Defect Desc	ription		cs	CS Qty	Maint Qty	
12	Exposed Rebar		PAR: 18" X 12" X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 OVER FIRST DIAPHRAGM				2	Square Feet
12	Exposed Rebar		PAR: 3' DIAMETER X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 AT 2ND UTILITY		3	9	9	Square Feet
12	Exposed Rebar	PAR: 30" X 20" X 2" DEEP SPAL WITH SECTION LOSS IN BAY 1 A	,		3	6	6	Square Feet
12	Exposed Rebar	PAR: 5' X 8" X 5" SPALL WITH E SECTION LOSS IN BAY 8 DIAPH			3	5	5	Square Feet
12	Cracking (RC and Other)	bottom of the deck has 2050 sq. map cracking thru out the span	ft. of hairline to 1/	32" wide	2	2,050	2,050	Square Feet
12	Exposed Rebar	bottom of the deck in bay 1 at be 4" wide x 1/2" deep with exposed	• .	6" long x	2	1	1	Square Feet

Spa	n 2		Beam 1						
Plat	e Girder								
	ment nber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	107 Steel O		en Girder/Beam	70	0	68	0	2	Feet
515		Steel Pro	tective Coating	400	235	35	0	130	Square Feet
Elemen	Dofoot T	уре	Defect Descrip	otion		CS	CS Qty	Maint Qty	-
107	Corrosion		PAR: 3/8" REMAINING (1/4" SECTION HEIGHT OF WEB UNDER DIAPHRA BENT 1			4	1		Feet
107	Corrosion		PAR: 3/8" REMAINING (1/4" SECTION WEB FOR 8" LONG UNDER DIAPHI			4	1	•	Feet
107	Corrosion		freckled rust on the flanges and we the beam	b thru out the ler	ngth of	2	44		Feet
107	Corrosion		web stiffener at right web at bent 2 to section loss with a steel plate, 12 thick			2	1		Feet
107	Damage		high load scrapes on the bottom fla south bound lanes	ange over north a	ind	2	20	20	) Feet
107	Distortion		at 22ft-9in from Bent 2, impact dam out 1in x 8in high with divot on bot and bottom flange bent upwards [1	tom flange [3/16ir		2	3		Feet
515	Effectiveness Protective Co		protective coating has failed due to	rust		4	130	130	) Square Feet
515	Peeling/Bubb cking (steel Protective Co	•	areas of peeling paint on the flange length of the beam	es and web thru o	ut the	2	35	35	Square Feet
	<b>General Comm</b>	nents	·				·		<u> </u>

Spa	Span 2		Beam	2						
Plat	te Girder									
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Ope	en Girder/Beam		70	0	69	1	0 F	eet
515		Steel Pro	tective Coating		400	245	30	0	125	Square Feet
Elemen Numbe	Dofoot	Туре	Defec	ct Description			cs	CS Qty	Maint Qty	
107	Corrosion		1/2" REMAINING (1/8" SEG BOTTOM 3" OF WEB FOR			AND	3	1	1	Feet
107	Corrosion		freckled rust on the flange the beam	es and web thru o	out the le	ength of	2	49		Feet
107	Damage		high load scrapes on the l south bound lanes	bottom flange ov	er north	and	2	20	20	Feet
515	Effectivenes Protective C	•	protective coating has fail	ed due to rust			4	125	125	Square Feet
515	Peeling/Bub cking (steel Protective C	•	areas of peeling paint on the length of the beam	the flanges and w	eb thru	out the	2	30	30	Square Feet
	General Com	ments								

Spa	n 2			Beam 3						
Plate	e Girder									
Element Number			Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Ope	en Girder/Beam		70	0	69	1	0 1	eet
515		Steel Pro	tective Coating		400	240	35	0	125	Square Feet
Elemen Number	Dofoot 7	Гуре		Defect Description			cs	CS Qty	Maint Qty	
107	Corrosion		•	/8" SECTION LOSS) OF EB FOR 8" LONG AT BI		AND	3	1	1	Feet
107	Corrosion		freckled rust on the the beam	e flanges and web thru	out the le	ength of	2	61		Feet
107	Damage		high load scrapes south bound lanes	on the bottom flange o	ver north	and	2	8	8	Feet
515	Effectivenes		protective coating	has failed due to rust			4	125	125	Square Feet
515	cking (steel Protective Co	oatings)	areas of peeling pa length of the beam	int on the flanges and	web thru	out the	2	35	35	Square Feet
(	General Comr	nents								

Spa	n 2	Beam 4						
Plat	e Girder							
	ment nber	Element Name		CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel	Open Girder/Beam	70	0	67	1	2	Feet
515	Steel	Protective Coating	400	250	35	0	115	Square Feet
Elemen Numbe	Dofoct Type	Defect Des	scription		cs	CS Qty	Maint Qty	
107	Distortion	PAR: at 22ft-11in from bent 1 b bottom flange bent upward 2-1/ [up to 1-1/2in] and gouge in co	/2in with lower web b	ouckled	4	2	2	Peet
107	Corrosion	1/2" REMAINING (1/8" SECTION BOTTOM 3" OF WEB FOR 8" L	,	AND	3	1	1	Feet
107	Corrosion	freckled rust on the flanges and the beam	d web thru out the le	ngth of	2	67		Feet
515	Effectiveness (Stee Protective Coating		ue to rust		4	115	115	Square Feet
515	Peeling/Bubbling/C cking (steel Protective Coating	length of the beam	anges and web thru	out the	2	35	35	Square Feet
	General Comments							

Spa Plat	n 2 e Girder	Beam 5						
Nur	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	en Girder/Beam	70	0	70	0	0 Feet	
515	Steel Pro	tective Coating	400	260	30	110	0 Square	Feet
Elemen Numbe	Dofoct Typo	Defect Descr	iption		CS	CS Qty	Maint Qty	
107	Corrosion	freckled rust on the flanges and w	eb thru out the le	ngth of	2	70	Feet	:
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		3	110	110 Squ	are Feet

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30

30 Square Feet

Peeling/Bubbling/Cra areas of peeling paint on the flanges and web thru out the cking (steel length of the beam

cking (steel Protective Coatings)

Span 2								
		Beam 6						
Plate Girder								
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Oper	Girder/Beam	70	0	69	1	0 1	Feet
515	Steel Prote	ective Coating	400	245	35	120	0	Square Feet
ement mber Defect	Туре	Defect Des	cription		cs	CS Qty	Maint Qty	
07 Corrosion		I/2" REMAINING (1/8" SECTION BOTTOM 3" OF WEB FOR 8" LO		AND	3	1	1	Feet
07 Corrosion		reckled rust on the flanges and he beam	I web thru out the le	ngth of	2	64		Feet
07 Damage		nigh load scrapes on the botton anes	n flange over north l	bound	2	5	5	Feet
15 Effectivenes Protective C		protective coating has failed du	e to rust		3	120	120	Square Feet
15 Peeling/Bubl cking (steel Protective C	Ĭ.		inges and web thru o	out the	2	35	35	Square Feet
15 Peeling/Bubl cking (steel	k	oling/Cra a	oling/Cra areas of peeling paint on the fla length of the beam	oling/Cra areas of peeling paint on the flanges and web thru of length of the beam	oling/Cra areas of peeling paint on the flanges and web thru out the length of the beam	oling/Cra areas of peeling paint on the flanges and web thru out the length of the beam	oling/Cra areas of peeling paint on the flanges and web thru out the 2 35 length of the beam patings)	oling/Cra areas of peeling paint on the flanges and web thru out the 2 35 length of the beam

Spai	n 2	Beam 7						
Plate	e Girder							
Elen Num		Element Name		CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	70	0	67	1	2	Feet
515	Steel Pro	tective Coating	400	240	35	0	125	Square Feet
Element Number	Defect Type	Defect Descri	otion		cs	CS Qty	Maint Qty	
107	Distortion	PAR: at 21ft-7in from Bent 1 bearing, impact damage - bottom flange bent upward 2-1/8in, web bent 1-1/4in with gouge in bottom flange [1/8in deep], diaphragm 12in east of impact bent at bottom bolts			4	2	2	2 Feet
107	Corrosion	1/2" REMAINING (1/8" SECTION LO BOTTOM 3" OF WEB FOR 8" LONG		AND	3	1	•	I Feet
107	Corrosion	freckled rust on the flanges and we the beam	b thru out the le	ength of	2	63		Feet
107	Damage	high load scrapes on the bottom flanes	ange over north	bound	2	4	4	1 Feet
515	Effectiveness (Steel Protective Coatings)	\			4	125	125	Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the flange length of the beam	es and web thru	out the	2	35	35	5 Square Feet
(	General Comments		·					

Spa	n 2	Beam 8						
Plate	e Girder							
Elen Nun	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	70	0	70	0	0 1	Feet
515	Steel Pro	tective Coating	400	240	40	0	120	Square Feet
Elemen	Dofoct Typo	Defect Descrip	tion		cs	CS Qty	Maint Qty	
107	Corrosion	freckled rust on the flanges and wel the beam	thru out the le	ngth of	2	62		Feet
107	Damage	high load scrapes on the bottom fla south bound lanes, beam 9 same	nge over north	and	2	8	8	3 Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due to	rust		4	120	120	) Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the flanger length of the beam	s and web thru	out the	2	40	40	Square Feet
-	General Comments							

Spa	an 2	Beam 9						
Pla	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	70	0	68	0	2 F	-eet
515	Steel Pro	tective Coating	400	245	30	0	125	Square Feet
Eleme	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
107	Corrosion	PAR: 3/4" X 3/4" HOLE IN LEFT S DIAPHRAGM AT BENT 2	STIFFENER AT		4	1	1	Feet
107	Corrosion	PAR: 3/8" REMAINING (1/4" SEC OF WEB FOR 8" LONG UNDER D WITH 3/4" REMIANING (3/16" SEC FLANGES FOR 1' AT BENT 2	NAPHRAGM AT BE	NT 2	4	1	1	Feet
107	Corrosion	freckled rust on the flanges and the beam	web thru out the le	ngth of	2	64		Feet
107	Damage	high load scrapes on the bottom south bound lanes	flange over north	and	2	4	4	Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	125	125	Square Feet
515	cking (steel Protective Coatings)	areas of peeling paint on the flan length of the beam	ges and web thru	out the	2	30	30	Square Feet
	General Comments							

Spai	n 2	V	Wearing Surface									
Aspl	Asphalt Wearing Surface											
Elen Num		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty				
510	Wearing S	Surface		3,692	2,920	72	700	0 S	quare Feet			
Element Number	Defect Type		Defect Description			cs	CS Qty	Maint Qty				
510	Crack (Wearing Surface)	1/8" wide map crack surface	ing thru out the top o	f the wea	ring	3	700	700	Square Feet			
510	Delamination/Spall (Wearing Surfaces)	void, 2 ft. wide x 6" l at bent 2	long x 1/5" deep, 16 ft	. from the	e left curb	2	2	2	Square Feet			
510	Patched Area/Pothole (Wearing Surface)	12 sq. ft. of sound p surface	atches thru out the to	p of the v	vearing	2	12		Square Feet			

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510	Patched Area/Pothole MINOR POTHOLING IN TRAVEL LANES (Wearing Surface)	2	6	Square Feet
510	Patched Area/Pothole PATCHED AREA OVER BENT 1 (Wearing Surface)	2	52	Square Feet
	General Comments			_

Spa	an 2	Left Bridge	Rail					
Cor	ncrete and Metal	Railing						
	ment mber Other I	<b>Element Name</b> Bridge Railing	Total Qty 71	CS1 Qty 26	CS2 Qty 45	CS3 Qty	CS4 Qty	eet
Elemer Numbe	1t Defeat Type	Defect Desc			cs	CS Qty	Maint Qty	
333	Connection	RAISED ANCHOR NUTS ON 2ND	TO LAST RAIL PO	ST	2	1	•	Feet
333	Cracking (RC and Other)	1/32" wide vertical cracks thru or	ut the length of the	rail	2	44		Feet
	<b>General Comments</b>							

Spa	n 2	Right Brid	ge Rail					
Con	crete and Metal I	Railing						
	<b>nent</b> <b>nber</b> Other E	Element Name Bridge Railing	Total Qty 71	<b>CS1</b> <b>Qty</b> 29	<b>CS2</b> <b>Qty</b> 41	CS3 Qty 1	CS4 Qty	Feet
Elemen Numbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
333	Connection	PAR: MISSING BOLT NUT ON L	AST POST IN SPAN		3	1		1 Feet
333	Cracking (RC and Other)	1/32" wide vertical cracks thru o	out the length of the	rail	2	41		Feet
-	General Comments							

Spa	an 2	Beam 1 Ne	ar Bearing					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Eleme	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Connection	PAR: MISSING RIGHT ANCHOR I	BOLT NUT		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
	General Comments							

Span 2		Beam 1 Far Beari	ng					
Other B	earing							
Element Number	Element N	ame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	0	1	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

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316	Corrosion	span 2, beam 1 far bearing has 1/16" section loss	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due to rust	4	1	1 Square Feet
	General Comments				

Spa	ın 2	Beam 2 Ne	ar Bearing					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other	Bearings	1	0	0	1	0	Each
515	Steel	Protective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 2 near bearing has	1/16" section loss		3	1		1 Each
515	Effectiveness (Ste Protective Coating		to rust		4	1		1 Square Feet
	<b>General Comments</b>							

Span	2	Beam 2 Fa	r Bearing					
Other	r Bearing							
Eleme Numb		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 2 far bearing has 1	/16" section loss		3	1		1 Each
	15 Effectiveness (Steel protective coating Protective Coatings)		e to rust		4	1		1 Square Feet
G	eneral Comments							

	Beam 3 N	ear Bearing					
ng							
	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty		
Other Bearings		1 0	0 0	1	0	Each	
Steel Pro	tective Coating	1	0	0	0	1	Square Feet
ect Type	Defect De	scription		cs	CS Qty	Maint Qty	
n	span 2, beam 3 near bearing ha	as 1/16" section loss		3	1		1 Each
ness (Steel e Coatings)	protective coating has failed do	ue to rust		4	1		1 Square Feet
	Other Be Steel Pro ect Type n ness (Steel	Element Name Other Bearings Steel Protective Coating  ect Type page 1  span 2, beam 3 near bearing have 1  ness (Steel protective coating has failed do	Element Name Other Bearings Steel Protective Coating  Defect Type Defect Description span 2, beam 3 near bearing has 1/16" section loss ness (Steel protective coating has failed due to rust	Element Name Other Bearings Other Bearings Other Description Steel Protective Coating  Defect Description span 2, beam 3 near bearing has 1/16" section loss ness (Steel protective coating has failed due to rust	Element Name Other Bearings Other Bearings Other Protective Coating  Defect Description Span 2, beam 3 near bearing has 1/16" section loss  a span 2, beam 3 near bearing has 1/16" section loss  Steel Protective coating has failed due to rust  Total CS1 CS2 Qty Qty Qty Qty Other Bearings 1 0 0 0 CS A span 2, beam 3 near bearing has 1/16" section loss 3	Element Name  CS1 CS2 CS3  Qty Qty Qty Qty Qty  Other Bearings 1 0 0 1  Steel Protective Coating 1 0 0 0  ect Type Defect Description CS CS Qty  n span 2, beam 3 near bearing has 1/16" section loss 3 1  ness (Steel protective coating has failed due to rust 4 1	Element Name  CS1 CS2 CS3 CS4 Qty

Spa	n 2	Beam 3 Fa	r Bearing					
Oth	er Bearing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Defect Type	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 3 far bearing has	1/16" section loss		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed du	e to rust		4	1		1 Square Feet
-	General Comments							

Spa		Beam 4 Ne	ar Bearing					
Othe	er Bearing							
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemen Number	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 4 near bearing has	1/16" section loss		3	1	•	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
-	General Comments							

Spa	ın 2	Beam 4 Fa	r Bearing					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	cription		CS	CS Qty	Maint Qty	-
316	Corrosion	span 2, beam 4 far bearing has 1	/16" section loss		3	1		1 Each
515	515 Effectiveness (Steel protective coating Protective Coatings)		e to rust		4	1		1 Square Feet
•	General Comments							

Spai	n 2	Beam 5 N	ear Bearing					
Othe	er Bearing							
Elem Num	ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS <sup>2</sup> Qty	<i>(</i>
316	Other I	Bearings	1	0	0	1	0	Each
515	Steel F	Protective Coating	1	0	0	0	1	Square Feet
Element Number	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 5 near bearing ha	as 1/16" section loss		3	1		1 Each
515	Effectiveness (Stee Protective Coatings		ue to rust		4	1		1 Square Feet

Spa	an 2		Bear	n 5 Far Bearing					
Oth	ner Bearing	g							
	ement Imber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	earings	1	0	0	1	0	Each
515		Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Eleme	Dofos	t Type	Defe	ect Description		CS	CS Qty	Maint Qty	
316	Corrosion		span 2, beam 5 far bearin	ng has 1/16" section loss		3	1		1 Each
515	Effectivene Protective		protective coating has fa	iled due to rust		4	1		1 Square Feet
	General Co	mments							

Spa	n 2	Beam 6 Near	r Bearing					
Oth	er Bearing							
Eler Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descri	ption		CS	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 6 near bearing has 1	/16" section loss		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due to	o rust		4	1		1 Square Feet
-	General Comments							

Spa	an 2		Beam 6 F	ar Bearing					
Oth	er Bea	aring							
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	arings	1	0	0	1	0	Each
515		Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemer		Defect Type	Defect De	scription		cs	CS Qty	Maint Qty	
316	Corro	sion	span 2, beam 6 far bearing has	1/16" section loss		3	1		1 Each
515		iveness (Steel ctive Coatings)	protective coating has failed d	ue to rust		4	1		1 Square Feet
	Genera	I Comments							

Span 2		Beam 7 Near Bea	aring					
Other B	earing							
Element Number	Element	Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	0	1	0	Each
515	Steel Protective Coatin	ng	1	0	0	0	1	Square Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

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316	Corrosion	span 2, beam 7 near bearing has 1/16" section loss	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due to rust	4	1	1 Square Feet
	General Comments				

Span Othe	n 2 r Bearing	Beam 7 Fai	Bearing					
Elem Num	****	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 7 far bearing has 1	/16" section loss		3	1	-	1 Each
	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
G	Seneral Comments							

Spa	ın 2	Beam 8 Ne	ear Bearing					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 8 near bearing ha	s 1/16" section loss		3	1	-	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed du	e to rust		4	1		1 Square Feet
	General Comments							

Spai	n 2	Beam 8 F	ar Bearing					
Othe	er Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Element Number	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 8 far bearing has	1/16" section loss		3	1	•	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed d	ue to rust		4	1		1 Square Feet

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Spa	n 2	Beam 9 Ne	ar Bearing					
Oth	er Bearing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
lemen umbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 9 near bearing has	1/16" section loss		3	1	-	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
	General Comments							

Spa	n 2	Beam 9 Far	Bearing					
Oth	er Bearing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	etective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descri	iption		CS	CS Qty	Maint Qty	
316	Corrosion	span 2, beam 9 far bearing has 1/	16" section loss		3	1	-	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	1		1 Square Feet
-	General Comments							

Span 2	2	Expansion	Joint					
Standa	ard Joint							
Elemen Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourabl	le Joint Seal	65	55	0	10	0 Feet	į
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
301 Da			ng joint material at t wide x full depth,		3	10	Fe	eet
Ger	neral Comments							

Paved over

Spa	n 3	Deck						
Reir	nforced Concrete	Deck						
Elen Num 12	nber	Element Name ced Concrete Deck	<b>Total</b> <b>Qty</b> 2,834	<b>CS1 Qty</b> 1,164	<b>CS2</b> <b>Qty</b> 28	<b>CS3</b> <b>Qty</b> 1,642	<b>CS4 Qty</b> 0 S	quare Feet
Elemen Number	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
12	Cracking (RC and Other)	bay 8 adjacent to interior diaph 5ft x up to 1/16in wide]	ragm, map cracking	g [10ft x	3	50	50	Square Feet
12	Cracking (RC and Other)	bottom of the deck has 1500 so cracking thru out the span	ղ. ft. of 1/32" wide m	ар	3	1,500	1,500	Square Feet
12	Delamination/Spall	DELAMINATED AREAS ALONG	BAY 7 AND 8 NEA	R BENT 2	3	80	80	Square Feet

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12	Exposed Rebar	PAR: 30" X 15" X 2 1/2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 7 AT 2' FROM END BENT 2	3	6	6 Square Feet
12	Exposed Rebar	PAR: 30" X 24" X 3" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 8 AT 8' FROM END BENT 2	3	6	6 Square Feet
12	Patched Areas	bottom of the deck at bent 2 has a patch adjacent to the top right flange of beam 9. 2 ft. long x 1 ft. high with 1/16" wide cracking	2	2	Square Feet
12	Patched Areas	bottom of the deck in bay 1, near end bent 2 has a 14" long x 18" wide patched area	2	2	Square Feet
12	Patched Areas	span 3, bottom of the deck in bay 8 has a patched area, 4 ft. long x 6 ft. wide, near end bent 2	2	24	Square Feet

General (	Comments
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Spa	ın 3	Beam 1						
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	en Girder/Beam	43	0	42	0	1	Feet
515	Steel Pro	otective Coating	242	184	18	0	40	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
107	Corrosion	PAR: 7/16" REMAINING (3/16" SI OF WEB FOR 8" LONG UNDER D	,		4	1	1	Feet
107	Corrosion	freckled rust on the flanges and the beam	web thru out the le	ength of	2	42		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	to rust		4	40	40	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	areas of peeling paint on the flar length of the beam	nges and web thru	out the	2	18	18	Square Feet

Spa	ın 3	Beam 2						
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	en Girder/Beam	43	0	41	2	0	Feet
515	Steel Pro	otective Coating	242	187	15	40	0	Square Feet
Elemen Numbe	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
107	Corrosion	1/2" REMAINING (1/8" SECTION FOR 8" LONG AT BENT 2	LOSS) ON TOP 2"	OF WEB	3	1	1	Feet
107	Corrosion	web stiffener at near end, arreste 1/4in loss]	ed metal loss [6in x	1.5in x	3	1	1	Feet
107	Corrosion	freckled rust on the flanges and the beam	web thru out the le	ngth of	2	41		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	e to rust		3	40	40	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	a areas of peeling paint on the flar length of the beam	nges and web thru	out the	2	15	15	Square Feet

Spa	ın 3	Beam 3						
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	43	0	43	0	0 F	eet
515	Steel Pro	tective Coating	242	189	18	0	35 \$	Square Feet
Elemen Numbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
107	Corrosion	freckled rust on the flanges and the beam	I web thru out the le	ngth of	2	43		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed du	e to rust		4	35	35	Square Feet
515	cking (steel	paint peeling from the flanges a of the beam	and web thru out the	length	2	18	18	Square Feet
	Protective Coatings)							

Spai	n 3	Beam 4						
Plate	e Girder							
Elem Num	nber	Element Name	Total Qty 43	CS1 Qty	CS2 Qty 43	CS3 Qty	CS4 Qty	eet
515		oen Girder/Beam otective Coating	242	0 189	18	0		Gquare Feet
Element Number	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
107	Corrosion	freckled rust on the flanges and the beam	web thru out the le	ngth of	2	43	-	Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	e to rust		4	35	35	Square Feet
	0 ,							
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	length of the beam	nges and web thru	out the	2	18	18	Square Feet

Spai	n 3		Beam 5						
Plate	e Girder								
Elem Num			Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	St	eel Ope	en Girder/Beam	43	0	42	1	0	Feet
515	St	eel Prot	tective Coating	242	184	18	0	40	Square Feet
Element Number	Dofoct Tv	ре	Defect Desc	cription		cs	CS Qty	Maint Qty	
107	Corrosion		1/2" REMAINING (1/8" SECTION FOR 8" LONG AT BENT 2	LOSS) ON TOP 2"	OF WEB	3	1		1 Feet
107	Corrosion		freckled rust on the flanges and the beam	web thru out the le	ength of	2	42		Feet
515	Effectiveness (		protective coating has failed due	e to rust		4	40	4	0 Square Feet
515	Peeling/Bubblicking (steel Protective Coa	J	areas of peeling paint on the flar length of the beam	nges and web thru	out the	2	18	1	8 Square Feet
(	General Comme	nts							

ın 3	Beam 6						
e Girder							
ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Steel Ope	n Girder/Beam	43	0	42	1	0	Feet
Steel Prote	ective Coating	242	184	18	0	40	Square Feet
t r Defect Type	Defect Descrip	otion		cs	CS Qty	Maint Qty	
	•	metal loss [6in x	1.25in x	3	1		1 Feet
	•	b thru out the le	ngth of	2	42		Feet
Effectiveness (Steel Protective Coatings)	protective coating has failed due to	rust		4	40	40	O Square Feet
		es and web thru	out the	2	18	18	8 Square Feet
<u>.</u>	e Girder  nent nber Steel Ope Steel Prot  t Defect Type Corrosion  Corrosion  Effectiveness (Steel Protective Coatings) Peeling/Bubbling/Cra cking (steel	t Defect Type Defect Descript Corrosion web stiffener at near end, arrested 1/4in loss] Corrosion freckled rust on the flanges and we the beam Effectiveness (Steel Protective Coatings) Peeling/Bubbling/Cra cking (steel Protective Interval of the beam  Element Name  Element Name  Defect Descript web stiffener at near end, arrested 1/4in loss] freckled rust on the flanges and we the beam areas of peeling has failed due to protective Coating paint on the flanges length of the beam	re Girder  Inent Element Name Qty Steel Open Girder/Beam 43 Steel Protective Coating 242  It Defect Type Defect Description  Corrosion web stiffener at near end, arrested metal loss [6in x 1/4in loss]  Corrosion freckled rust on the flanges and web thru out the lethe beam  Effectiveness (Steel Protective Coating)  Peeling/Bubbling/Cra areas of peeling paint on the flanges and web thru out length of the beam	re Girder  Total CS1 Aber Element Name Qty Qty Steel Open Girder/Beam 43 0 Steel Protective Coating 242 184  Total CS1 At Defect Type Defect Description  Corrosion web stiffener at near end, arrested metal loss [6in x 1.25in x 1/4in loss]  Corrosion freckled rust on the flanges and web thru out the length of the beam  Effectiveness (Steel Protective Coatings)  Peeling/Bubbling/Cra areas of peeling paint on the flanges and web thru out the length of the beam	nent Element Name Qty Qty Qty Steel Open Girder/Beam 43 0 42 Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Qty Qty Steel Open Girder/Beam 43 0 42 Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Qty Qty Qty Qty Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Qty Qty Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Qty Qty Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Qty Qty Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Steel Protective Coating 242 184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 3184 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS1 CS2 Qty Steel Protective Coating 448 18  Total CS1 CS2 Qty Steel Protective	Total CS1 CS2 CS3 The Bernett Name Qty Qty Qty Qty Qty Steel Open Girder/Beam 43 0 42 1 Steel Protective Coating 242 184 18 0  Total CS1 CS2 CS3 Qty Qty Qty Qty Qty Qty Qty Steel Open Girder/Beam 43 0 42 1  Steel Protective Coating 242 184 18 0  Total CS1 CS2 CS3 Total CS2 CS3 Total CS3 Total CS3 CS3 Total CS3 Total CS3 CS3 Total CS3 Total CS4 CS3 Total CS4 CS3 Total CS5 CS5 To	nent Element Name Qty

Spai Plate	n 3 e Girder	Beam 7						
<b>Elem Num</b> 107	Steel Ope	Element Name en Girder/Beam eective Coating	<b>Total Qty</b> 43 242	<b>CS1 Qty</b> 0 192	CS2 Qty 43	<b>CS3 Qty</b> 0	-	eet quare Feet
Element Number	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
107	Corrosion	freckled rust on the flanges and the beam	d web thru out the le	ngth of	2	43		Feet
515	Effectiveness (Steel Protective Coatings)	at isolated areas, paint failure vunderlying metal	with corrosion of exp	osed	4	35	35	Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the fla length of the beam	anges and web thru o	out the	2	15	15	Square Feet

Spa	n 3	Beam 8						
Plat	e Girder							
	nent nber Steel Ope	Element Name	Total Qty 43	<b>CS1 Qty</b> 0	CS2 Qty 43	CS3 Qty 0	CS4 Qty 0 F	- eet
515	Steel Pro	ective Coating	242	184	18	0	40 8	Square Feet
Elemen Numbe	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
107	Corrosion	freckled rust on the flanges and the beam	web thru out the le	ngth of	2	43		Feet
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	e to rust		4	40	40	Square Feet
515	Peeling/Bubbling/Cra cking (steel Protective Coatings)	areas of peeling paint on the fla length of the beam	nges and web thru o	out the	2	18	18	Square Feet
-	General Comments							

Spa	n 3			Beam 9						
Plat	e Girder									
Elen Nun	nent nber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Ope	en Girder/Beam		43	0	41	1	1	Feet
515		Steel Pro	tective Coating		242	192	15	0	35	Square Feet
Elemen Numbe	Dofoot	Туре		Defect Description			cs	CS Qty	Maint Qty	
107	Corrosion			NING (3/16" SECTION ULL HEIGHT AT BEN		EFT.	4	1	,	1 Feet
107	Corrosion		1/2" REMAINING (1 FOR 8" LONG AT E	/8" SECTION LOSS) BENT 2	ON TOP 2" (	OF WEB	3	1	•	1 Feet
107	Corrosion		freckled rust on the the beam	e flanges and web th	ru out the le	ngth of	2	41		Feet
515	Effectivenes Protective C		protective coating	has failed due to rus	t		4	35	35	Square Feet
515	Peeling/Bub cking (steel Protective C	_	areas of peeling pa length of the beam	int on the flanges an	d web thru	out the	2	15	15	5 Square Feet
-	General Com	ments								

Spa	n 3	Beam 1 N	ear Bearing					
Oth	er Bearing							
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Othe	r Bearings	1	0	0	1	0	Each
515	Stee	Protective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoot Typo	Defect De	scription		cs	CS Qty	Maint Qty	
316	Corrosion	span 3, beam 1 near bearing ha	as 1/16" section loss		3	1	•	1 Each
515	Effectiveness (Str Protective Coatin		ue to rust		4	1		1 Square Feet

Spa		Beam 1 Fa	r Bearing					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	span 3, beam 1 far bearing has 1	/16" section loss		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	e to rust		4	1		1 Square Feet
-	General Comments							

	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
		Qty				
	1					
	•	0	0	1	0	Each
	1	0	0	0	1	Square Feet
Defect Description			cs	CS Qty	Maint Qty	
ar bearing has 1/16" sec	tion loss		3	1		1 Each
has failed due to rust			4	1		1 Square Feet
	ar bearing has 1/16" sec	ar bearing has 1/16" section loss	Defect Description ar bearing has 1/16" section loss	Defect Description CS ar bearing has 1/16" section loss 3	Defect Description CS CS Qty ar bearing has 1/16" section loss 3 1	Defect Description CS CS Qty Qty ar bearing has 1/16" section loss 3 1

Spai Othe	n 3 er Bearing	Beam 3 Ne	ar Bearing					
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Element Number	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	span 3, beam 3 near bearing has	1/16" section loss		3	1	•	1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed due	e to rust		4	1		1 Square Feet
(	General Comments							

Span :	3	Beam 4 No	ear Bearing					
Other	Bearing							
Elemer Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Des	scription		cs	CS Qty	Maint Qty	
316 C	orrosion	span 3, beam 4 near bearing ha	s 1/16" section loss		3	1	-	1 Each
	ffectiveness (Steel rotective Coatings)	protective coating has failed du	e to rust		4	1		1 Square Feet
Ge	eneral Comments							

Spar Othe	n 3 er Bearing			Beam 5 Near Beari	ng					
Elem Num 316		Other Be	Element Name		Total Qty 1	CS1 Qty 0	CS2 Qty	CS3 Qty	CS4 Qty	
515		Steel Pro	otective Coating		1	0	0	0	1	Square Feet
lement umber	Dofoct	Туре		Defect Description			cs	CS Qty	Maint Qty	
316	Corrosion		span 3, beam 5 nea	r bearing has 1/16" sec	tion loss		3	1		1 Each
	Effectivenes Protective C	•	protective coating I	nas failed due to rust			4	1		1 Square Feet

Spa	an 3	Beam 6 No	ear Bearing					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Elemei Numbe	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
316	Corrosion	span 3, beam 6 near bearing ha	s 1/16" section loss		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed du	e to rust		4	1		1 Square Feet
	General Comments							

Spa	an 3			Beam 7 Near Bear	ing					
Oth	ner Bearing									
	ement mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	arings		1	0	0	0	1	Each
515		Steel Pro	tective Coating		1	0	0	0	1	Square Feet
Eleme	Dofoct	Туре		Defect Description			cs	CS Qty	Maint Qty	
316	Loss of Bea	ring Area		ND BENT BOLTS FROM GE SPALL ON CAP UNI			4	1		1 Each
515	Effectivenes Protective C		protective coating	has failed due to rust			4	1		1 Square Feet
	General Com	ments								

Spa	an 3		Beam 8 No	ear Bearing					
Oth	er Bearing								
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	arings	1	0	0	1	0	Each
515		Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Elemen	Dofoct	Туре	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion		span 3, beam 8 near bearing ha	s 1/16" section loss		3	1	-	1 Each
515	Effectivenes Protective C		protective coating has failed du	e to rust		4	1		1 Square Feet
	<b>General Com</b>	ments							

Span 3		Beam 9 Near Bear						
Other B	earing							
Element Number	Element N	lame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	0	1	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

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316 Corrosion span 3, beam 9 near bearing has 1/16" section loss 3 1 1 1 Each
515 Effectiveness (Steel Protective Coatings) Fortective Coatings General Comments

Spa	an 3	Beam 9 Fa	r Bearing					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other E	Bearings	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemei	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	span 3, beam 9 far bearing has 1	1/16" section loss		3	1	-	1 Each
515	Effectiveness (Steel Protective Coatings		e to rust		4	1		1 Square Feet
	<b>General Comments</b>							

າ 3	Wearing Su	rface					
halt Wearing Surfa	ce						
nent Iber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	_
Wearing S	Surface	2,288	1,948	52	288	0 S	quare Feet
Defect Type	Defect Descr	ription		cs	CS Qty	Maint Qty	
Crack (Wearing Surface)	1" TRANSVERSE CRACK OVER E	END BENT 2		3	52	52	Square Feet
Crack (Wearing Surface)		he top of the wea	ring	3	220	220	Square Feet
		IN RIGHT EAST E	BOUND	3	16	16	Square Feet
Patched Area/Pothole (Wearing Surface)	PATCHED AREA OVER BENT 2			2	52		Square Feet
	Defect Type Crack (Wearing Surface) Crack (Wearing Surface) Crack (Wearing Surface) Patched Area/Pothole (Wearing Surface) Patched Area/Pothole	nalt Wearing Surface  Defect Type  Defect Type  Defect Descr Crack (Wearing 1" TRANSVERSE CRACK OVER E Surface)  Crack (Wearing 1/8" wide map cracking thru out t surface)  Patched Area/Pothole 8' X 16" X 1 1/2" DEEP POTHOLE (Wearing Surface)  LANE AT END BENT 2  Patched Area/Pothole PATCHED AREA OVER BENT 2	nalt Wearing Surface  tent Element Name Qty  Wearing Surface 2,288  Defect Type Defect Description  Crack (Wearing 1" TRANSVERSE CRACK OVER END BENT 2 Surface)  Crack (Wearing 1/8" wide map cracking thru out the top of the weat Surface)  Patched Area/Pothole 8' X 16" X 1 1/2" DEEP POTHOLE IN RIGHT EAST IS (Wearing Surface)  LANE AT END BENT 2  Patched Area/Pothole PATCHED AREA OVER BENT 2	nalt Wearing Surface  tent Element Name Qty Qty Wearing Surface 2,288 1,948  Defect Type Defect Description  Crack (Wearing 1" TRANSVERSE CRACK OVER END BENT 2 Surface)  Crack (Wearing 1/8" wide map cracking thru out the top of the wearing Surface) Surface Patched Area/Pothole 8' X 16" X 1 1/2" DEEP POTHOLE IN RIGHT EAST BOUND (Wearing Surface) LANE AT END BENT 2 Patched Area/Pothole PATCHED AREA OVER BENT 2	nalt Wearing Surface  tent Element Name Qty Qty Qty Wearing Surface 2,288 1,948 52  Defect Type Defect Description CS  Crack (Wearing 1" TRANSVERSE CRACK OVER END BENT 2 3 Surface)  Crack (Wearing 1/8" wide map cracking thru out the top of the wearing Surface) surface Patched Area/Pothole 8' X 16" X 1 1/2" DEEP POTHOLE IN RIGHT EAST BOUND (Wearing Surface) LANE AT END BENT 2 Patched Area/Pothole PATCHED AREA OVER BENT 2	Total CS1 CS2 CS3 ber Element Name Qty Qty Qty Qty Wearing Surface Defect Description CS CS Qty  Track (Wearing 1" TRANSVERSE CRACK OVER END BENT 2 3 52 Surface) Crack (Wearing 1/8" wide map cracking thru out the top of the wearing Surface surface Patched Area/Pothole 8' X 16" X 1 1/2" DEEP POTHOLE IN RIGHT EAST BOUND 3 16 (Wearing Surface) LANE AT END BENT 2 Patched Area/Pothole PATCHED AREA OVER BENT 2 2 52	Total CS1 CS2 CS3 CS4 ber Element Name Qty Qty Qty Qty Qty Qty Wearing Surface 2,288 1,948 52 288 0 S  Defect Type Defect Description CS CS Qty Maint Qty Crack (Wearing 1" TRANSVERSE CRACK OVER END BENT 2 3 52 52 Surface) Crack (Wearing 1/8" wide map cracking thru out the top of the wearing Surface surface Patched Area/Pothole 8' X 16" X 1 1/2" DEEP POTHOLE IN RIGHT EAST BOUND 3 16 16 (Wearing Surface) LANE AT END BENT 2 Patched Area/Pothole PATCHED AREA OVER BENT 2 2 52

Spa	an 3	Left Bridg	ge Rail					
Coi	ncrete and Me	etal Railing						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	0	ther Bridge Railing	44	23	21	0	0 Feet	
Elemei Numbe	Dofoot Tv	pe Defect De	scription		CS	CS Qty	Maint Qty	
333	Corrosion	at bent 2, sawcut area with exp	oosed rusted reinforc	ing	2	1	Feet	
333	Cracking	1/32" wide vertical cracks thru	out the length of the	rail	2	20	Feet	
	Conoral Commo	nto						

Span 3		R	ght Bridge Rail						
Concret	e and Metal F	Railing							
Element Number		Element Name		otal Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other B	ridge Railing		44	18	26	0	0	Feet
Element Number	Defect Type		Defect Description			cs	CS Qty	Maint Qty	
333 Crac	king	1/32" wide vertical co	acks thru out the length	of the	rail	2	26		Feet

**General Comments** 

	orced Concrete	Pier Cap						
Eleme Numb		Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
234	Reinford	ced Concrete Pier Cap	65	0	37	28	0 F	eet
Element Number	Defect Type	Defect Des	cription		cs	CS Qty	Maint Qty	
234 P	Patched Area	28 ft. of unsound patches thru out the face of the cap with 1/16" wide cracking with adjacent delamination		3	28	28	Feet	
	Cracking (RC and Other)	1/16" HORIZONTAL CRACKING THROUGHOUT		2	35		Feet	
234 E	Exposed Rebar	2- spalls in the face of the cap, near groundline, under beam 4 and bay 4, 5" in diameter x 1" deep with exposed rebar			2	2	2	Feet

Ben	t 1	Cap 1						
Rein	nforced Concrete	Pier Cap						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234 Reinford		ced Concrete Pier Cap	57	0	54	3	-	eet
Element Number	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	1/16" wide map cracking on the s	outh end with efflo		3		3	Feet
234	Delamination/Spall	north end of the cap has 1/16" wi efflo. and delamination	de map cracking w	ith	3	3	3	Feet
234	Patched Area	patched areas on span 1 side of the cap, 50 ft. long x 2 ft. high with 1/16" wide cracking and delamination		3		50	Feet	
234	Cracking (RC and Other)	1/32" MAP CRACKING THROUGH BOTH FACES	OUT UNDERSIDE	AND	2	48		Feet
234	Exposed Rebar	18" X 3" X 3" SPALL WITH EXPO GIRDER 4 SPAN 1 ON TOP OF C		R	2	2	2	Feet
234	Exposed Rebar	4' X 6" X 5" SPALL WITH EXPOSE CAP IN BAY 1 ON SPAN 2 SIDE	ED REBAR ON TOP	OF	2	4	4	Feet
234	Patched Area	patched area on the south end, 1	0" wide x 28" high		2			Feet

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Bent	t 1	Pile 1						
Rein	nforced Concrete	Column						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ced Concrete Column	1	0	0	1	0 E	ach
lement lumber	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	0.		/16"	3	1	15	Each
(	General Comments							

Ber	nt 1	Pile 2						
Rei	nforced Concrete	Column						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ed Concrete Column	1	0	1	0	0 Each	
Elemer Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	1/16" wide cracking and unsour height	nd patches on all sid	es, full	2	1	Each	
	<b>General Comments</b>							

Bei	nt 1		Pile 3	•						
Rei	inford	ced Concrete	Column							
	ement mber	Reinford	Element Name red Concrete Column		tal Qty	CS1 Qty 0	CS2 Qty	CS3 Qty 1	CS4 Qty	Each
Eleme Numbe		Defect Type	Defe	ct Description			cs	CS Qty	Maint Qty	
205	Dela	amination/Spall	7' X 9" X 4" DELAMINATION	ON ON NORTHEAST	CORN	NER	3		7	' Each
205	Ехр	osed Rebar	PAR: 9' X 8" X 8" SPALL V SECTION LOSS ON SOUT		BAR W	/ITH	3	1	9	Each
	Gene	ral Comments								

Ben	t 1	Pile 4						
Rei	nforced Concrete	Column						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ed Concrete Column	1	0	0	1	0 Each	
Elemen Numbe	Defeat Type	Defect Desc	cription		CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	1/16" wide cracking and unsoun height	g and unsound patches on all sides, full		3	1	15 Eac	;h
•	General Comments							

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End	Bent 1	Abutment						
Reir	nforced Concrete	Abutment						
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinfor	ced Concrete Abutment	65	0	65	0	0 Feet	
lemen lumbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
215	Cracking (RC and Other)	1/32" HORIZONTAL CRACKING T	THROUGHOUT BAC	KWALL	2	65	Fee	t
-	General Comments							

End	l Bent 2	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinford	ed Concrete Pier Cap	65	0	0	65	0 Feet	
Elemen Numbe	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	map cracking [up to full length x with adjacent efflorescence and		1/8in]	3	65	65 Feet	
•	General Comments							

Ben	t 2	Cap 1						
Reir	nforced Concrete	Pier Cap						
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	57	0	52	0	5 F	eet
Elemen Numbei	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
234	Exposed Rebar	WITH SECTION LOSS UNDER G	PAR: 51" X 18" X 11" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS UNDER GIRDER 7 SPAN 3 WITH UP TO 6.5" DEEP LOSS OF BEARING			5	5	Feet
234	Cracking (RC and Other)	right end of cap has 3 ft. of unso rust stains	ound patches with eff	lo. and	3		3	Feet
234	Patched Area	left end of cap has 3 ft. of unsou	ind patches with efflo	) <b>.</b>	3		3	Feet
234	Cracking (RC and Other)	1/16" wide map cracking on the bottom of the cap with rust stair delamination thru out the length	ns and adjacent	nd	2	52		Feet
234	Patched Area	span 3 side has 23 ft. of patches	under beams 1,2,3,6	, and 8	2			Feet
-	General Comments							

Ben	nt 2	Pile 1						
Rei	nforced Concrete	Column						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ced Concrete Column	1	0	0	1	0 E	Each
Elemen Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	1/16" wide cracking and unsour height	g and unsound patches on all sides, full		3	1	15	Each
	General Comments							

Structure Number: 780108 Inspection Date: 10/13/2020

Bent 2	2	Pile 2						
Reinfo	orced Concrete	Column						
Eleme Numb	· · · ·	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 E	ach
Element Number	Defect Type	Defect Des	cription		cs	CS Qty	Maint Qty	
	Cracking (RC and Other)	1/16" wide cracking and unsour height	nd patches on all sid	es, full	3		15	Each
205 E	Exposed Rebar	PAR: 16" X 15" X 4" SPALL WIT SECTION LOSS ON NORTHEAS		WITH	3		2	Each
205 E	Exposed Rebar	PAR: 3' X 10" X 11" SPALL WITI SECTION LOSS ON SOUTHEAS		WITH	3	1	3	Each
Ge	eneral Comments							

Ben	nt 2		Pile 3						
Rei	nfor	ced Concrete	Column						
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty 0 E	ach
lemen		Defect Type	Defect Des	cription			CS Qty	Maint Qty	acri
205		cking (RC and er)	1/16" wide cracking and unsour height	nd patches on all sid	es, full	3	·	15	Each
205	Ехр	oosed Rebar	PAR: 3' X 15" X 12" SPALL WITH SECTION LOSS ON NORTHEAS		WITH	3		3	Each
205	Exp	osed Rebar	PAR: 3' X 6" X 6" SPALL WITH E SECTION LOSS ON SOUTHEAS		TTH	3		3	Each
205	Exp	osed Rebar	PAR: 30" X 11" X 2 1/2" SPALL WITH SECTION LOSS ON WEST	= • • =	BAR	3		3	Each
205	Ехр	osed Rebar	PAR: 4' X 8" X 6" SPALL WITH E SECTION LOSS ON SOUTHWES		TH	3	1	4	Each

Ben	nt 2	Pile 4						
Rei	nforced Concrete	Column						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforc	ed Concrete Column	1	0	0	1	0 Each	
Elemen Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	1/16" wide cracking and unsour height	d patches on all sid	es, full	3	1	15 Eac	:h
•	General Comments							

**General Comments** 

End Be	nt 2		Abutment						
Reinfor	ced Concrete	Abutment							
Element Number		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinford	ed Concrete Abutment		65	26	35	4	0 Feet	
Element Number	Defect Type		Defect Description			cs	CS Qty	Maint Qty	
215 Del	amination/Spall	North face, spall [2ft reinforcing	t x 2ft x 1.5in deep] v	with exposed	l rusted	3	4	4 Feet	

Structure Number: 780108 Inspection Date: <u>10/13/2020</u>

Feet

Cracking (RC and Other)
General Comments 1/32" map cracking [up to 35ft x full height ] 2 35

## **Elements Verfied**

Location	Name	Component	Element Name	Amount	
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2834	
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	43	
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	44	
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	44	
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2288	
Span 1	Beam 1 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 1 Near Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 2 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 2 Near Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 3 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 3 Near Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 4 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 4 Near Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 5 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 5 Near Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 6 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 6 Near Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 7 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 7 Near Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 8 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 8 Near Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 9 Far Bearing	Other Bearing	Other Bearings	1	
Span 1	Beam 9 Near Bearing	Other Bearing	Other Bearings	1	
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4573	
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Beam 8	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Beam 9	Plate Girder	Steel Open Girder/Beam	70	
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	71	
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	71	
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	3692	
Span 2	Beam 1 Far Bearing	Other Bearing	Other Bearings	1	

## **Elements Verfied**

Location	Name	Component	Element Name	Amount	
Span 2 Beam 1 Near Bearing		Other Bearing	Other Bearings	1	
Span 2		Unknow	Steel Protective Coating	1	
Span 2	Beam 2 Far Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 2 Near Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 3 Far Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 3 Near Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 4 Far Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 4 Near Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 5 Far Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 5 Near Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 6 Far Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 6 Near Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 7 Far Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 7 Near Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 8 Far Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 8 Near Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 9 Far Bearing	Other Bearing	Other Bearings	1	
Span 2	Beam 9 Near Bearing	Other Bearing	Other Bearings	1	
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2834	
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	43	
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	43	
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	43	
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	43	
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	43	
Span 3	Beam 6	Plate Girder	Steel Open Girder/Beam	43	
Span 3		Legacy Red Lead Primer Systems with Various Topcoats	Steel Protective Coating	242	
Span 3	Beam 7	Plate Girder	Steel Open Girder/Beam	43	
Span 3	Beam 8	Plate Girder	Steel Open Girder/Beam	43	
Span 3	Beam 9	Plate Girder	Steel Open Girder/Beam	43	
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	44	
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	44	
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2288	
Span 3	Beam 1 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 1 Near Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 2 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 2 Near Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 3 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 3 Near Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 4 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 4 Near Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 5 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 5 Near Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 6 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 6 Near Bearing	Other Bearing	Other Bearings	1	

## **Elements Verfied**

Location	Name	Component	Element Name	Amount	
Span 3	Beam 7 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 7 Near Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 8 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 8 Near Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 9 Far Bearing	Other Bearing	Other Bearings	1	
Span 3	Beam 9 Near Bearing	Other Bearing	Other Bearings	1	
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	57	
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1	
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	crete Pier Cap Reinforced Concrete Pier Cap		
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	65	
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	57	
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1	
End Bent 2	Cap 1	Reinforced Concrete Pier Cap Reinforced Concrete Pier Cap		65	
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	65	

# **General Inspection Notes**

Span 3

**Expansion Joint** 

Paved over

# **National Bridge and NC Inspection Items**

Structure Number: 780108 Inspection Date: 10/13/2020

### **National Bridge Inventory Items**

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	4
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**

ltem	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C	F		
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
Field Scour Evaluation				
Drift	G, F, P, or C			
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code		Α		

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	8
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
Portion of Structure in > 3' of water	YES/NO	N

## National Bridge and NC SMU Inspection Item Details

Structure Number: 780108 Inspection Date: 10/13/2020

Item Deck - Item 58 Grade 5 Maint Code Qty. 0

Details SEVERAL SPALLS WITH EXPOSED REBAR IN SPAN 2 UNDERSIDE WITH SECTION LOSS

DELAMINATIONS AND PATCHES ALONG UNDERSIDE

SPALLS, DELAMINATIONS, AND CRACKING ALONG DIAPHRAGMS

LARGE SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 8 DIAPHRAGM OVER BENT 2 IN SPAN 2

ItemSuperstructure - Item 59Grade 5Maint CodeQty. 0

Details MINOR SECTION LOSS ALONG SEVERAL GIRDERS ENDS ON WEBS AND SOME BOTTOM FLANGES

MINOR RUST ALONG ALL BEARINGS AND GIRDERS

AREAS OF COMPELTE SECTION LOSS ON A FEW STIFFENERS

MODERATE SECTION LOSS ON SOME GIRDER WEBS

GIRDER 7 SPAN 3 HAS UP TO 6.5" DEEP LOSS OF BEARING (20% REMIANING) DUE TO LARGE SPALL ON CAP

UNDER GIRDER, BEARING BOLTS ARE BENT AND SHEARED ALSO

NCDOT WAS NOTIFIED WHILE WE WERE ON SITE AND THEY SENT BRIDGE MAINTENANCE SUPERVISOR TO

INSPECT AND STATED HE WOULD SHORE IT UP

AREAS OF IMPACT DAMAGE TO SEVERAL GIRDERS IN SPAN 2, SPECIFICALLY GIRDER 1, 4, AND 7

ItemSubstructure - Item 60Grade 4Maint CodeQty. 0

Details SEVERAL SPALLS WITH EXPOSED REBAR WITH SECTION LOSS ON CAPS AND COLUMNS

BENT 2 CAP HAS A LARGE SPALL WITH EXPOSED REBAR AND UP TO 6.5" DEEP LOSS OF BEARING UNDER

GIRDER 7 SPAN 3

CRACKING THROUGHOUT ALL CAPS AND BACKWALLS

Item Utilities Grade F Maint Code Qty. 0

Details LEAKING SECTION OF BAY 8 UTILITY IN SPAN 2 OVER SOUTH BOUND LANES

Item General Comments and Misc Items Grade Maint Code Qty. 0

**Details POTHOLING AND CRACKING IN WEARING SURFACES** 

RAISED ANCHOR NUTS ON SPAN 2 LEFT RAIL POST AT 2ND TO LAST POST AND RIGHT RAIL IS MISSING A NUT

ON LAST POST

MAP CRACKING THROUGHOUT SIDEWALKS

8' X 3' X 12" DEEP SINK HOLE UNDER BENT 2 BETWEEN COLUMNS 2 AND 3 AGAINST GUARDRAIL, STANDING

WATER CONTINUES TO DRAIN INTO HOLE



Span 2 Right Bridge Rail: PAR: MISSING BOLT NUT ON LAST POST IN SPAN



Bent 1 Pile 3: PAR: 9' X 8" X 8" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER



Span 2 Beam 1: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON FULL HEIGHT OF WEB UNDER DIAPHRAGM FOR 8" LONG AT BENT 1



Span 2 Beam 1 - Beam 1 Near Bearing: PAR: MISSING RIGHT ANCHOR BOLT NUT



Span 1 Beam 9: PAR: 2 1/2" X 3 1/2" HOLE IN LEFT STIFFENER AT DIAPHRAGM AT BENT 1



Span 2 Deck: PAR: 3' DIAMETER X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 AT 2ND UTILITY HANGER



Span 2 Deck: PAR: 18" X 12" X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 OVER FIRST DIAPHRAGM



Span 2 Deck: PAR: 30" X 20" X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 AT 5TH UTILITY HANGER



Span 2 Beam 4: PAR: at 22ft-11in from bent 1 bearing, impact damage - bottom flange bent upward 2-1/2in with lower web buckled [up to 1-1/2in] and gouge in cover plate [1/8in deep]



Span 2 Beam 7: PAR: at 21ft-7in from Bent 1 bearing, impact damage - bottom flange bent upward 2-1/8in, web bent 1-1/4in with gouge in bottom flange [1/8in deep], diaphragm 12in east of impact bent at bottom bolts



Span 2 Beam 9: PAR: 3/4" X 3/4" HOLE IN LEFT STIFFENER AT DIAPHRAGM AT BENT 2



Span 2 Beam 9: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON TOP 2 1/2" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2



Span 3 Beam 9: PAR: 3/16" REMAINING (3/16" SECTION LOSS) IN LEFT STIFFENER FOR FULL HEIGHT AT BENT 2



Span 2 Deck: PAR: 5' X 8" X 5" SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 8 DIAPHRAGM OVER BENT 2



Bent 2 Pile 3: PAR: 4' X 8" X 6" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHWEST CORNER



Bent 2 Pile 3: PAR: 30" X 11" X 2 1/2" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON WEST FACE



Bent 2 Pile 3: PAR: 3' X 6" X 6" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER



Bent 2 Pile 3: PAR: 3' X 15" X 12" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON NORTHEAST CORNER



Bent 2 Cap 1: PAR: 51" X 18" X 11" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS UNDER GIRDER 7 SPAN 3 WITH UP TO 6.5" DEEP LOSS OF BEARING



Span 3 Beam 7 - Beam 7 Near Bearing: PAR: SHEARED AND BENT BOLTS FROM BEARING TO CAP DUE TO LARGE SPALL ON CAP UNDER GIRDER



Bent 2 Pile 2: PAR: 3' X 10" X 11" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER AT TOP



Bent 2 Pile 2: PAR: 16" X 15" X 4" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON NORTHEAST CORNER AT TOP



Span 2 Beam 1: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON TOP 3" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2



Span 3 Beam 1: PAR: 7/16" REMAINING (3/16" SECTION LOSS) ON TOP 2" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2



Span 3 Deck: PAR: 30" X 24" X 3" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 8 AT 8' FROM END BENT 2



Span 3 Deck: PAR: 30" X 15" X 2 1/2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 7 AT 2' FROM END BENT 2



Span 1 Wearing Surface: 8 sq. ft. of sound patches thru out the top of the wearing surface



Span 1 Wearing Surface: 1" TRANSVERSE CRACK OVER END BENT 1



Span 1 Left Bridge Rail: 1/32" wide vertical cracks thru out the length of the rail



Span 2 Wearing Surface: PATCHED AREA OVER BENT 1



MISSING JOINT MATERIAL IN SIDEWALKS OVER INTERIOR BENTS WITH 3" GAP



Span 3 Wearing Surface: PATCHED AREA OVER BENT 2



Span 2 Left Bridge Rail: RAISED ANCHOR NUTS ON 2ND TO LAST RAIL POST



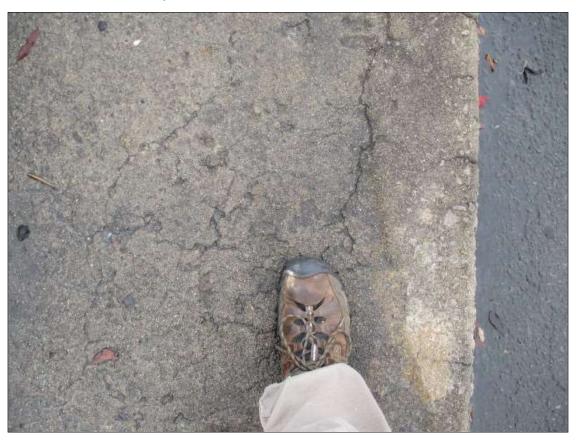
Span 3 Wearing Surface: 1" TRANSVERSE CRACK OVER END BENT 2



Span 3 Wearing Surface: 8' X 16" X 1 1/2" DEEP POTHOLE IN RIGHT EAST BOUND LANE AT END BENT 2



Span 3 Wearing Surface: 1/8" wide map cracking thru out the top of the wearing surface



1/32" MAP CRACKING ALONG SIDEWALKS



Span 2 Wearing Surface: MINOR POTHOLING IN TRAVEL LANES



End Bent 1 Abutment: 1/32" MAP CRACKING THROUGHOUT BACKWALL



End Bent 1 Cap 1: 1/16" HORIZONTAL CRACKING THROUGHOUT



Span 1 Deck: 30" X 24" DELAMINATION IN BAY 8 NEAR END BENT 1



Bent 1 Cap 1: 1/32" MAP CRACKING THROUGHOUT UNDERSIDE



Bent 1 Cap 1: 4' X 6" X 5" SPALL WITH EXPOSED REBAR ON TOP OF CAP IN BAY 1 ON SPAN 2 SIDE



Bent 1 Pile 2: 1/16" wide cracking and unsound patches on all sides, full height



Span 1 Beam 8 Far Bearing: RAISED LEFT ANCHOR BOLT NUT BUT CANNOT BE MOVED BY HAND



Span 2 Beam 1: at 22ft-9in from Bent 2, impact damage - lower web pushed out 1in x 8in high with divot on bottom flange [3/16in deep] and bottom flange bent upwards [1/4in]



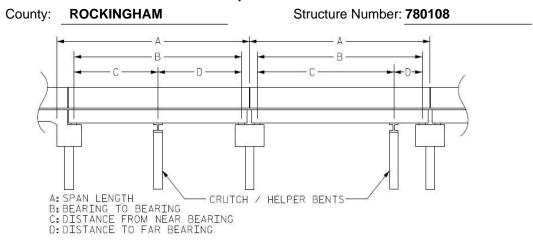
8' X 3' X 12" DEEP SINK HOLE UNDER BENT 2 BETWEEN COLUMNS 2 AND 3 AGAINST GUARDRAIL



LEAKING UTILITY SECTION IN BAY 8 SPAN 2 OVER SOUTH BOUND LANES

## **Structure Data Worksheet**

## **Span Profile**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	44.000	42.500			
2	71.000	69.830			
3	44.000	42.500			

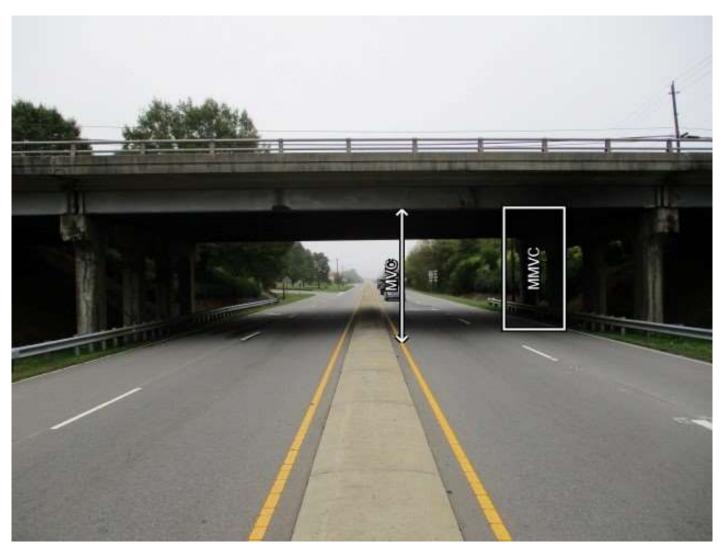
Structure Number: 780108 Span: 2 Route Name: NC14N,NC87N



SPAN 2 NORTH BOUND LANE

Route Number: 31000	140	Route Na	ıme: 1	NC14N,NC87N	Reference Feature:	Н		
Minimum Vertical Clears	330 feet	Maxim	Maximum Minimum Vertical Clearance 14.750 feet					
Total Horizontal Clearar	Total Horizontal Clearance 61.500 feet				Lateral Clearances: Left: 33.000 feet Right 4.000 feet			
✓ Base Highway Netwo	LRS Inv	entory R	Route, Sub Route Num	aber 30014				
Milepost: 0.000	Milepost: 0.000 Number of Lanes: 2			<b>ADT</b> : 14000	Year of ADT: 2017	Percentage of Trucks:	12	
✓ National Highway System STRAHNET Highway Designator								
Functional Classification 14 Local Other Principal Arterial Direction of Traffic: 1 1 - way traffic								

Structure Number: 780108 Span: 2 Route Name: US311S,NC14S,NC87S,NC770W



SPAN 2 SOUTH BOUND LANE

Route Number: 210031	Route Number: 21003110 Route Name: US311S,NC14S,NC87S,NC770W				Reference Feature:	Н		
Minimum Vertical Clearance 14.420 feet Maximum Minimum Vertical Clearance 14.750 feet					14.750 feet			
Total Horizontal Clearan	Total Horizontal Clearance 61.500 feet Lateral Clearances: Left: 34.500 feet Right 4.250 feet							
☑ Base Highway Network LRS Inventory Route, Sub Route Number 30014								
Milepost: 0.000	Number of Lanes: 2			<b>ADT</b> : 14000	Year of AD	<b>T</b> : 2017	Percentage of Trucks:	12
✓ National Highway System STRAHNET Highway Designator								
Functional Classification 14 Local Other Principal Arterial Direction of Traffic: 1 1 - way traffic								



LOW CLEARANCE SIGN ON SOUTH ON RAMP AT 300' FROM BRIDGE



LOOKING CLEARANCE SIGN ON SOUTH SIDE AT 120' FROM BRIDGE



LOW CLEARANCE SIGN ON NORTH SIDE AT 900' FROM BRIDGE



LOW CLEARANCE SIGN ON NORTH ON RAMP AT 300' FROM BRIDGE



LOW CLEARANCE SIGN ON NORTH SIDE AT 100' FROM BRIDGE



LOW CLEARANCE SIGN ON SOUTH SIDE AT 1200' FROM BRIDGE



WEST APPROACH



BRIDGE PLAQUE



TYPICAL RAIL



LOOKING NORTH



LOOKING SOUTH



LOOKING WEST FROM BRIDGE



LOOKING EAST FROM BRIDGE



EAST APPROACH



**NORTH ELEVATION** 



NORTH ELEVATION OF SPAN 2



SOUTH ELEVATION



SOUTH ELEVATION OF SPAN 2



UTILITY IN BAY 1



END BENT 1



**UTILITY IN BAY 8** 



END BENT BEARING



TYPICAL OVERHANG



BENT 1



TYPICAL UNDERSIDE



TYPICAL UNDERDECK



TYPICAL INTERMEDIATE DIAPHRAGM



BENT 2



END BENT 2

Bridge: 780108 County ROCKINGHAM Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 9: PAR: 2 1/2" X 3 1/2" HOLE IN LEFT STIFFENER AT DIAPHRAGM AT BENT 1	
3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 1: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON FULL HEIGHT OF WEB UNDER DIAPHRAGM FOR 8" LONG AT BENT 1	
3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 1: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON TOP 3" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2	
3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 4: PAR: at 22ft-11in from bent 1 bearing, impact damage - bottom flange bent upward 2-1/2in with lower web buckled [up to 1-1/2in] and gouge in cover plate [1/8in deep]	
3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 7: PAR: at 21ft-7in from Bent 1 bearing, impact damage - bottom flange bent upward 2-1/8in, web bent 1-1/4in with gouge in bottom flange [1/8in deep], diaphragm 12in east of impact bent at bottom bolts	
3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 9: PAR: 3/4" X 3/4" HOLE IN LEFT STIFFENER AT DIAPHRAGM AT BENT 2	
3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 9: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON TOP 2 1/2" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2 WITH 3/4" REMIANING (3/16" SECTION LOSS) ON BOTTOM FLANGES FOR 1' AT BENT 2	
3314	Maintain Steel Superstructure Components	LF	1	Span 3 Beam 1: PAR: 7/16" REMAINING (3/16" SECTION LOSS) ON TOP 2" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2	
3314	Maintain Steel Superstructure Components	LF	1	Span 3 Beam 9: PAR: 3/16" REMAINING (3/16" SECTION LOSS) IN LEFT STIFFENER FOR FULL HEIGHT AT BENT 2	
<u>《</u> 3318	Maint to Concrete Handrail	LF	1	Span 2 Right Bridge Rail: PAR: MISSING BOLT NUT ON LAST POST IN SPAN	
3326	Maintain Concrete Deck	SF	9	Span 2 Deck: PAR: 3' DIAMETER X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 AT 2ND UTILITY HANGER	

Key

Bridge: 780108 County ROCKINGHAM Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3326	Maintain Concrete Deck	SF	2	Span 2 Deck: PAR: 18" X 12" X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 OVER FIRST DIAPHRAGM	
3326	Maintain Concrete Deck	SF	6	Span 2 Deck: PAR: 30" X 20" X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 AT 5TH UTILITY HANGER	
3326	Maintain Concrete Deck	SF	5	Span 2 Deck: PAR: 5' X 8" X 5" SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 8 DIAPHRAGM OVER BENT 2	
3326	Maintain Concrete Deck	SF	6	Span 3 Deck: PAR: 30" X 24" X 3" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 8 AT 8' FROM END BENT 2	
3326	Maintain Concrete Deck	SF	6	Span 3 Deck: PAR: 30" X 15" X 2 1/2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 7 AT 2' FROM END BENT 2	
<b>3334</b>	Bridge Bearings	EA	1	Span 2 Beam 1 - Beam 1 Near Bearing: PAR: MISSING RIGHT ANCHOR BOLT NUT	
3348	Maintain Concrete Substructure Components	LF	9	Bent 1 Pile 3: PAR: 9' X 8" X 8" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER	
3348	Maintain Concrete Substructure Components	LF	3	Bent 2 Pile 2: PAR: 3' X 10" X 11" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER AT TOP	
3348	Maintain Concrete Substructure Components	LF	2	Bent 2 Pile 2: PAR: 16" X 15" X 4" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON NORTHEAST CORNER AT TOP	
3348	Maintain Concrete Substructure Components	LF	4	Bent 2 Pile 3: PAR: 4' X 8" X 6" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHWEST CORNER	
3348	Maintain Concrete Substructure Components	LF	3	Bent 2 Pile 3: PAR: 30" X 11" X 2 1/2" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON WEST FACE	

Bridge: 780108 County ROCKINGHAM Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3348	Maintain Concrete Substructure Components	LF	3	Bent 2 Pile 3: PAR: 3' X 6" X 6" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER	
3348	Maintain Concrete Substructure Components	LF	3	Bent 2 Pile 3: PAR: 3' X 15" X 12" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON NORTHEAST CORNER	
3334	Bridge Bearings	EA	1	Span 3 Beam 7 - Beam 7 Near Bearing: PAR: SHEARED AND BENT BOLTS FROM BEARING TO CAP DUE TO LARGE SPALL ON CAP UNDER GIRDER	
3348	Maintain Concrete Substructure Components	LF	5	Bent 2 Cap 1: PAR: 51" X 18" X 11" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS UNDER GIRDER 7 SPAN 3 WITH UP TO 6.5" DEEP LOSS OF BEARING	



Bridge: 780108 County ROCKINGHAM

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

MMS Code	N / N	MMS Description Quantity						
	IVIIV	no Descrip	DUON		Quantity			
3334	Brid	Bridge Bearings				EA		
Location:								
			Bent/Span No.					
Priority Leve	el		Status					
			Request Awaiting Assignment					
Submitted D	ate:	Submitte	d By:	Assisted By:				
10/13/2020		J. B. WI	HITE					
Details								
LARGE SPA	ALL O	N CAP UN	IDER GIRDER					
MMS Code	MN	/IS Descrip	otion		Quantity			
3348	Mai	ntain Cond	crete Substructure Components		5	LF		
Location:								
			Bent/Span No.					
Priority Leve	el		Status					
			Request Awaiting Assignment					
Submitted D	ate:	Submitte	d By:	Assisted By:				

#### Details

10/13/2020

J. B. WHITE

Bent 2 Cap 1: PAR: 51" X 18" X 11" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS UNDER GIRDER 7 SPAN 3 WITH UP TO 6.5" DEEP LOSS OF BEARING

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Description			Quantity			
3314	Maintain Stee	Maintain Steel Superstructure Components			LF		
Location:	Location:						
		Bent/Span No.					
Priority Level		Status	Status				
Priority Maint	tenance	Division Bridge Maintenance Notification					
Submitted Da	ate: Submitte	ed By:	Assisted By:				
10/13/2020	J. B. W	HITE					
Details							
Span 1 Beam	Span 1 Beam 9: PAR: 2 1/2" X 3 1/2" HOLE IN LEFT STIFFENER AT DIAPHRAGM AT BENT 1						

MMS Code	MMS Description			Quantity			
3314	Mair	Maintain Steel Superstructure Components			1	LF	
Location:							
			Bent/Span No.				
Priority Level			Status				
Priority Main	tenan	се	Division Bridge Maintenance Notification				
Submitted D	ate:	Submitte	d By:	Assisted By:			
10/13/2020		J. B. Wł	HITE				
Details							
	Span 2 Beam 1: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON FULL HEIGHT OF WEB UNDER DIAPHRAGM FOR 8" LONG AT BENT 1						

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Des	cription		Quantity			
3314	Maintain S	in Steel Superstructure Components			LF		
Location:	Location:						
		Bent/Span No.					
Priority Leve	ı	Status	Status				
Priority Main	tenance	Division Bridge Maintenance Notification					
Submitted Da	ate: Subm	itted By:	Assisted By:				
10/13/2020	J. B.	WHITE					
Details							
	Span 2 Beam 1: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON TOP 3" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2						

MMS Code	MN	//S Descrip	otion		Quantity	
3314	Mai	ntain Stee	Superstructure Components		2	LF
Location:						
			Bent/Span No.			
Priority Level Status		Status				
Priority Maintenance Division Bridge Mainten		Division Bridge Maintenance Noti	fication			
Submitted D	ate:	Submitte	d By:	Assisted By:		
10/13/2020		J. B. WI	HITE			
Details						
			t-11in from bent 1 bearing, impact //2in] and gouge in cover plate [1/8	damage - bottom flange bent upward in deep]	l 2-1/2in with	1

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Descri	ption		Quantity		
3314	Maintain Stee	intain Steel Superstructure Components			LF	
Location:						
Bent/Span No.						
Priority Leve	I	Status				
Priority Maintenance		Division Bridge Maintenance Notification				
Submitted Da	ate: Submitte	ed By:	Assisted By:			
10/13/2020	J. B. W	HITE				
Details						
Span 2 Beam 7: PAR: at 21ft-7in from Bent 1 bearing, impact damage - bottom flange bent upward 2-1/8in, web bent 1-1/4in with gouge in bottom flange [1/8in deep], diaphragm 12in east of impact bent at bottom bolts						

MMS Code	MN	MMS Description			Quantity		
3314	Mai	ntain Stee	Superstructure Components		1	LF	
Location:							
			Bent/Span No.				
Priority Leve	el		Status				
Priority Mair	itenan	ce	Division Bridge Maintenance Notification				
Submitted D	ate:	Submitte	d By:	Assisted By:			
10/13/2020		J. B. Wł	HITE				
Details							
Span 2 Bear	Span 2 Beam 9: PAR: 3/4" X 3/4" HOLE IN LEFT STIFFENER AT DIAPHRAGM AT BENT 2						

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Descri	ption		Quantity		
3314	Maintain Stee	Maintain Steel Superstructure Components			LF	
Location:	Location:					
		Bent/Span No.				
Priority Level		Status	Status			
Priority Maint	tenance	Division Bridge Maintenance Notification				
Submitted Da	ate: Submitte	ed By:	Assisted By:			
10/13/2020	J. B. W	HITE				
Details						
	Span 2 Beam 9: PAR: 3/8" REMAINING (1/4" SECTION LOSS) ON TOP 2 1/2" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2 WITH 3/4" REMIANING (3/16" SECTION LOSS) ON BOTTOM FLANGES FOR 1' AT BENT					

MMS Code	MN	MMS Description Qu			Quantity	
3314	Mai	ntain Stee	Superstructure Components		1	LF
Location:						
			Bent/Span No.			
Priority Leve	el		Status			
Priority Main	itenan	ce	Division Bridge Maintenance Notification			
Submitted D	ate:	Submitte	d By:	Assisted By:		
10/13/2020		J. B. WI	HITE			
Details						
	Span 3 Beam 1: PAR: 7/16" REMAINING (3/16" SECTION LOSS) ON TOP 2" OF WEB FOR 8" LONG UNDER DIAPHRAGM AT BENT 2					

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Descri	ption		Quantity	
3314	Maintain Stee	aintain Steel Superstructure Components			LF
Location:					
		Bent/Span No.			
Priority Level	ı	Status	Status		
Priority Maint	tenance	Division Bridge Maintenance Notification			
Submitted Da	ate: Submitte	ed By:	Assisted By:		
10/13/2020	J. B. W	HITE			
Details					
Span 3 Bean BENT 2	n 9: PAR: 3/16'	REMAINING (3/16" SECTION LOS	SS) IN LEFT STIFFENER FOR FULL	. HEIGHT A	Γ

MMS Code	MN	MMS Description			Quantity		
3318	Mai	nt to Conc	rete Handrail		1	LF	
Location:							
			Bent/Span No.				
Priority Leve	el		Status				
Priority Main	itenan	ce	Division Bridge Maintenance Notification				
Submitted D	ate:	Submitte	d By:	Assisted By:			
10/13/2020		J. B. WH	HITE				
Details							
Span 2 Right Bridge Rail: PAR: MISSING BOLT NUT ON LAST POST IN SPAN							

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Descri	ption		Quantity	
3326		laintain Concrete Deck			SF
Location:					
		Bent/Span No.			
Priority Leve	l	Status			
Priority Main	tenance	Division Bridge Maintenance Notification			
Submitted Da	ate: Submitte	ed By:	Assisted By:		
10/13/2020	J. B. W	HITE			
Details					
Span 2 Deck 2ND UTILITY		IETER X 2" DEEP SPALL WITH EX	POSED REBAR WITH SECTION LO	OSS IN BAY	1 AT

MMS Code	MN	MMS Description			Quantity		
3326	Mai	ntain Cond	crete Deck		2	SF	
Location:							
			Bent/Span No.				
Priority Level			Status				
Priority Maintenance		ce	Division Bridge Maintenance Notification				
Submitted D	ate:	Submitte	d By:	Assisted By:			
10/13/2020		J. B. Wł	HITE				
Details							
Span 2 Deck: PAR: 18" X 12" X 2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 1 OVER FIRST DIAPHRAGM							

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Descri	ption		Quantity	
3326	Maintain Con	Maintain Concrete Deck			SF
Location:					
		Bent/Span No.			
Priority Leve	I	Status			
Priority Main	tenance	Division Bridge Maintenance Notification			
Submitted Da	ate: Submitte	ed By:	Assisted By:		
10/13/2020	J. B. W	HITE			
Details					
Span 2 Deck UTILITY HAI		0" X 2" DEEP SPALL WITH EXPOS	SED REBAR WITH SECTION LOSS	IN BAY 1 AT	5TH

MMS Code	MN	MMS Description			Quantity	
3326	Mai	ntain Cond	crete Deck		5	SF
Location:						
			Bent/Span No.			
Priority Level			Status			
Priority Mair	ntenan	ce	Division Bridge Maintenance Notification			
Submitted D	ate:	Submitte	d By:	Assisted By:		
10/13/2020		J. B. Wł	HITE			
Details						
Span 2 Decl OVER BEN		R: 5' X 8" X	(5" SPALL WITH EXPOSED REBA	AR WITH SECTION LOSS IN BAY 8	DIAPHRAG	M

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Desc	ription		Quantity		
3326	Maintain Co	intain Concrete Deck			SF	
Location:						
		Bent/Span No.				
Priority Leve	I	Status	Status			
Priority Maintenance		Division Bridge Maintenance Notification				
Submitted Da	ate: Submit	ted By:	Assisted By:			
10/13/2020	J. B. \	VHITE				
Details						
Span 3 Deck FROM END		24" X 3" DEEP SPALL WITH EXPOS	SED REBAR WITH SECTION LOSS	IN BAY 8 AT	Г 8'	

MMS Code	MN	MMS Description			Quantity		
3326	Mai	ntain Cond	crete Deck		6	SF	
Location:							
			Bent/Span No.				
Priority Leve	el		Status				
Priority Mair	ntenan	ce	Division Bridge Maintenance Notification				
Submitted D	ate:	Submitte	d By:	Assisted By:			
10/13/2020		J. B. Wł	HITE				
Details							
	Span 3 Deck: PAR: 30" X 15" X 2 1/2" DEEP SPALL WITH EXPOSED REBAR WITH SECTION LOSS IN BAY 7 AT 2' FROM END BENT 2						

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS	Descrip	otion		Quantity		
3334	Bridge	dge Bearings				EA	
Location:							
	Bent/Span No.						
Priority Leve	I		Status				
Priority Main	tenance		Division Bridge Maintenance Notification				
Submitted D	ate: Si	Submitted	d By:	Assisted By:			
10/13/2020	J	J. B. WH	HITE				
Details							
Span 2 Bear	n 1 - Bea	am 1 Ne	ear Bearing: PAR: MISSING RIGHT	ANCHOR BOLT NUT			

MMS Code	MN	MMS Description			Quantity		
3348	Mai	aintain Concrete Substructure Components			9	LF	
Location:							
			Bent/Span No.				
Priority Leve	Priority Level		Status				
Priority Main	itenan	ce	Division Bridge Maintenance Notification				
Submitted D	ate:	Submitte	d By:	Assisted By:			
10/13/2020		J. B. Wh	HITE				
Details							
Bent 1 Pile 3	B: PAF	R: 9' X 8" X	8" SPALL WITH EXPOSED REBA	AR WITH SECTION LOSS ON SOUT	HEAST CO	RNER	

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Desc	MMS Description				
3348	Maintain Co	ncrete Substructure Components	crete Substructure Components			
Location:	Location:					
	Bent/Span No.					
Priority Leve	I	Status	Status			
Priority Main	tenance	Division Bridge Maintenance Notification				
Submitted Da	ate: Submit	ed By:	Assisted By:			
10/13/2020	J. B. V	/HITE				
Details						
	Bent 2 Pile 2: PAR: 3' X 10" X 11" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER AT TOP					

MMS Code	MN	MMS Description Qu			Quantity	
3348	Mai	ntain Cond	crete Substructure Components	ete Substructure Components 2		
Location:						
			Bent/Span No.			
Priority Level Status						
Priority Maintenance			Division Bridge Maintenance Notification			
Submitted D	ate:	Submitte	d By:	Assisted By:		
10/13/2020		J. B. Wł	HITE			
Details						
Bent 2 Pile 2: PAR: 16" X 15" X 4" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON NORTHEAST CORNER AT TOP						

Bridge: 780108 County ROCKINGHAM

MMS Code	MMS Description			Quantity	
3348	Maintain Co	ntain Concrete Substructure Components			LF
Location:					
		Bent/Span No.			
Priority Level Status					
Priority Maintenance Division Bridge Maintenance Notifi			fication		
Submitted Da	ate: Submi	ted By:	Assisted By:		
10/13/2020	J. B. '	VHITE			
Details					
Bent 2 Pile 3: PAR: 4' X 8" X 6" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHWEST CORNER					

MMS Code	MN	MMS Description			Quantity	
3348	Mai	intain Concrete Substructure Components			3	LF
Location:						
			Bent/Span No.			
Priority Level Status						
Priority Maintenance Division Bridge Maintenance			Division Bridge Maintenance Noti	fication		
Submitted D	ate:	Submitte	d By:	Assisted By:		
10/13/2020		J. B. Wł	HITE			
Details						
Bent 2 Pile 3	3: PAF	R: 30" X 11	" X 2 1/2" SPALL WITH EXPOSED	REBAR WITH SECTION LOSS ON	WEST FAC	Έ

Bridge: 780108 County ROCKINGHAM

MMS Code	MM	MMS Description			Quantity	
3348	Main	ntain Concrete Substructure Components			3	LF
Location:	Location:					
			Bent/Span No.			
Priority Level Status						
Priority Maintenance Di			Division Bridge Maintenance Notification			
Submitted D	ate:	Submitte	d By:	Assisted By:		
10/13/2020		J. B. Wł	HITE			
Details						
Bent 2 Pile 3: PAR: 3' X 6" X 6" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON SOUTHEAST CORNER						

MMS Code	MN	MMS Description Qua			Quantity	
3348	Mai	ntain Cond	crete Substructure Components	ete Substructure Components 3		
Location:						
			Bent/Span No.			
Priority Level Status						
Priority Maintenance			Division Bridge Maintenance Notification			
Submitted Da	ate:	Submitte	d By:	Assisted By:		
10/13/2020		J. B. WI	HITE			
Details						
Bent 2 Pile 3: PAR: 3' X 15" X 12" SPALL WITH EXPOSED REBAR WITH SECTION LOSS ON NORTHEAST CORNER						

US 311 & NC 700

4ft Sidewalk
6in Curb
6in Curb

#### **LOOKING EAST**

Roadway	52.2ft Wide	4 Paved Lanes	Looking East
Left Shoulder	6.5ft Wide*	4.5ft Paved*	2ft Unpaved
Right Shoulder	6.5ft Wide*	4.5ft Paved*	2ft Unpaved
Left Guardrail			
Right Guardrail			

Measurements Taken 75ft West of Structure

MEASUREMENTS VERIFIED 10-13-20 JBW VERIFIED 10 25-18 RGK

\*Measurement Revised: T. Graham 10/24/16

Title
Approach Roadway Sketch

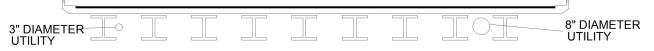
Bridge No: 780108

Date: 10/10/2012

Date: 10/10/2012

Date: S0242001010

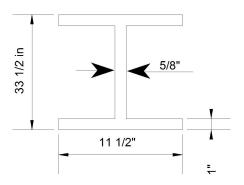
Deck Width/Out to Out 64.4ft			Between Rails			
Clear Roadway 52.0ft			ng Surface			.2038ft
Median Width	Mediar	Median Height				
Curb Height			0.75ft	Right	0.7	5ft
Sidewalk Width		Left	5ft	Right	5ft	
Clear Roadway (Rail to Media	an)	Left		Right		
Guardrail Width			1.083ft	Right	1.08	33ft
Top of Rail to Deck/Wearing Surface			3.917ft	Right	3.9	17ft
Bridge Rail	Left	Type 13	Right	Тур	e 13	



Measurements for Span #	3		
Deck Thickness	0.583 ft	Left Overhang	5.28 ft
Top of Rail to Bottom of Beam	7.63 ft	Right Overhang	5.19 ft

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	6.75ft	
2	Steel I Beam	6.75ft	
3	Steel I Beam	6.75ft	
4	Steel I Beam	6.75ft	
5	Steel I Beam	6.75ft	
6	Steel I Beam	6.75ft	
7	Steel I Beam	6.75ft	
8	Steel I Beam	6.75ft	
9	Steel I Beam		

#### TOP FLANGES ARE FLUSH WITH CONCRETE DECK.



Spans 1 & 3 Beams 2 - 8

**REVISED 10/25/18 MSW** 

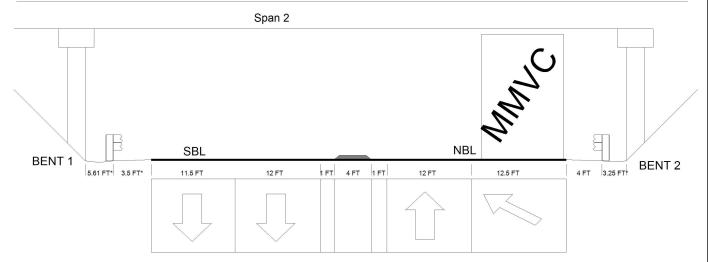
T. Graham 10/24/16 BEAM SIZES REVISED 10-13-20 JBW

10 1/2" X 13/16" COVERPLATES ON SPAN 2 G'S

Title	Description
Typical Section Sketch	Data Worksheet

	Pridae Inchesti	an E	Field Skets	h
	Bridge Inspecti	оп г	leid Skett	
	INTENTIONAL	LY LEFT	BLANK	
		_		
Title	NIZ	Description		
INTENTIONALLY LEFT BLA	NN.	DATA WORKSHEET		
Bridge No:	Drawn By:		Date:	File Name:
				1

#### LOOKING NORTH



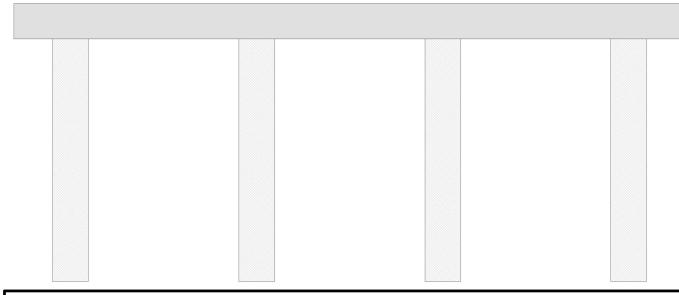
Roadway 1		Direction of Traffic	North		
Distance to Left Rail	33FT	Distance to Right Rail	4.0FT		
Distance to Left Toe of Slope		Distance to Left Bent	38.61FT		
MMVC	14.75 ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT				
MVC	14.33 Ft at Beam 1, 0 FT from LEFT EDGE OF PAVEMENT				

MEASUREMENTS REVISED 10-13-20 JBW

**REVISED 10-25-18 RGK** 

\*Measurement Revised: T. Graham 10/24/16

Title Clearence Sketch		<b>Description</b> Data Worksheet				
Bridge No: 780108	Drawn By: JDH		Date: 10/18/2012	File Name: S0242001013		



Cap Inf	ormation Material Cast-in-Place Concrete											
Lengtl	n Width	Height	Left Over	hang	Right Overhang		Left Beam to End of Cap.		nd of Cap.	Right Beam to End of Cap.		
56.470 1	ft. 2.500 ft.	3.000 ft.	4.750	ft.	4.750 ft. 1.375 ft.			1.375 ft.				
Subcap Information Material												
Lengtl	n Width	Height	Left Over	hang	Right Overh	Overhang Left Pile to Splice.		ce.				
Sill Info	Sill Information Material											
Length Width Height												
Pile#	Material	Spacing	Width/Dia.	Height	Length	Orie	entation	Driven?	Replaceme	ent?	Removed?	Collar?
1	Concrete	15.68 ft.	3 ft.			Vert	tical	No	No		No	No
2	Concrete	15.65 ft.	3 ft.			Vert	tical	No	No		No	No
3	Concrete	15.64 ft.	3 ft.			Vert	tical	No	No		No	No
4	Concrete		3 ft.			Vert	tical	No	No		No	No

## MEASUREMENTS VERIFIED 10-13-20 JBW

VERIFIED 10-25-18 RGK

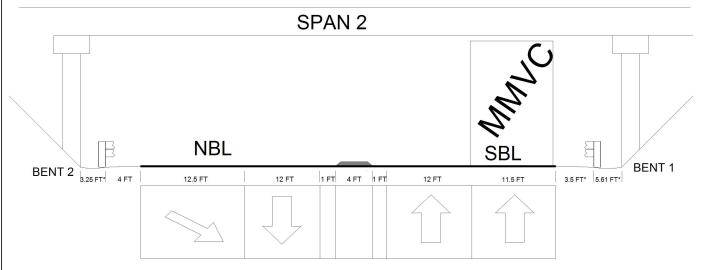
\*Measurement Revised: T. Graham 10/24/16 Bent/Abutment #: 1 Similar Bents: 2

TitleDescriptionBent SketchData Worksheet

 Bridge No: 780108
 Drawn By: JWT
 Date: 10/12/2012
 File Name: \$0350000305

# **Bridge Inspection Field Sketch** RAMP OHP **END BENT 2** BENT 2 NC87N SIDEWALK SIDEWALK NC87S BENT 1 **END BENT 1** OHP Verified: T. Graham 10/24/16 Title Description Location Sketch Data Worksheet Date: 10/15/2012 **Bridge No:** 780108 Drawn By: JWT File Name: S0350000307

## **LOOKING SOUTH**



Roadway 1		Direction of Traffic	South		
Distance to Left Rail	34.5FT	Distance to Right Rail	3.5FT		
Distance to Right Toe of Slope		Distance to Left Bent	37.75FT		
MMVC	14.75 ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT				
MVC	14.42 Ft at Beam 1, 0 FT from LEFT EDGE OF PAVEMENT				

## MEASUREMENTS REVISED 10-13-20 JBW

## **REVISED 10-25-18 RGK**

Title Vertical Clearence Sketch		<b>Description</b> Data Worksheet				
Bridge No: 780108	Drawn By: \/\/\/		Date: 12/5/2014	File Name: S0214000795		