NC DEPARTMENT OF TRANSPORTATION ATTENTION: PAR SUBMITTED, NEW REPAIRS, SIGN NOTICE ISSUED, HYDRAPLATFORM USED **DIVISION OF HIGHWAYS** STRUCTURE MANAGEMENT UNIT **Structure Safety Report Routine Element Inspection - Contract** SAP STRUCTURE NO: 0610229 STRUCTURE NUMBER: 600229 FHWA STRUCTURE NO: 00000001210229 **INSPECTION DATE:** 10/17/2023 DIVISION: 13 COUNTY: MITCHELL FREQUENCY: 24 MONTHS FACILITY CARRIED: SR1357 MILE POST: LOCATION: .01 N.JCT.SR1336

FEATURE INTERSECTED: NORTH TOE RIVER

LATITUDE: <u>35° 59' 33.58</u>" LONGITUDE: <u>82° 15' 28.3</u>"

SUPERSTRUCTURE: RC FL.& PPC DECK PANELS ON PPC GDR.(S.I.P.METAL FORMS)

SUBSTRUCTURE: E.BTS&INT.BT4:RC CAPS/H-PILES;INT.BTS1-3:REINF.CONC.P&B

SPANS: 5 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTU	JRE CRITICAL		SHORING	SCOUR CRITI	ICAL	SCOUR PLA	N OF ACTION	
GRADES:	(Inspector/NBI Coding)	DECK 7/7	SUPERSTRUCTU	RE <u>6/6</u>	SUBSTRU	CTURE 7/7	CULVERT N/N	_
POSTED SV	: Not Posted			POSTED TTS	ST: Not Pos	sted		

OTHER SIGNS PRESENT: ONE (1) DELINEATOR



NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

01/09/2024

1) STATE NAME NORTH CAROLINA BRIDGE	600229	SUFFICIENCY RATING		83
8) STRUCTURE NUMBER (FEDERAL)	1210229	STATUS =		
5) INVENTORY ROUTE (ON/UNDER) ON	31013570		CLASSIFICATION	- COD
2) STATE HIGHWAY DEPARTMENT DISTRICT	13	(112) NBIS BRIDGE SYSTEM		
3) COUNTY CODE (FEDERAL) 121 (4) PLACE CODE	0	(104) HIGHWAY SYSTEM	Inventory Route not on NHS	6
6) FEATURE INTERSECTED NORTH TOE RIVER		(26) FUNCTIONAL CLASS	Rural Loca	1
7) FACILITY CARRIED SR1357 9) LOCATION .01 N.JCT.SR1336		(100) STRAHNET HIGHWAY	Not a STRAHNET Route	
11) MILEPOINT	0.0	х , ,		
12) BASE HIGHWAY NETWORK	0.0	(101) PARALLEL STRUCTURE	No parallel structure exists	
13) LRS INVENTORY ROUTE & SUBROUTE	0	(102) DIRECTION OF TRAFFIC	2-way traffic	•
16) LATITUDE 35° 59' 33.58" (17) LONGITUDE 82	° 15' 28.3"	(103) TEMPORARY STRUCTURE	Ξ	
98) BORDER BRIDGE STATE CODE PERCENT SHARED		(110) DESIGNATED NATIONAL N	NETWORK - on national network for trucks	6
99) BORDER BRIDGE STRUCTURE NUMBER		(20) TOLL	On Free Road	ł
STRUCTURE TYPE AND MATERIAL		(21) MAINT -		
43) STRUCTURE TYPE MAIN Prestressed		- (22) OWNER -		
TYPE Stringer/Multi-beam or girder CODE		(37) HISTORICAL SIGNIFICANCE	=	
··· 5· ··· ·· 5 ··· ··		(37) HISTORICAL SIGNIFICANCE		
44) STRUCTURE TYPE APPROACH	=		CONDITION	- COD
TYPE CODE		(58) DECK		
45) NUMBER OF SPANS IN MAIN UNIT	5	(59) SUPERSTRUCTURE		
46) NUMBER OF SPANS IN APPROACH	0	(60) SUBSTRUCTURE		
107) DECK STRUCTURE TYPE CODE	2	(61) CHANNEL & CHANNEL PRC	DTECTION	
108)WEARING SURFACE/PROTECTIVE SYSTEM		(62) CULVERTS		
(A) TYPE OF WEARING SURFACE CODE	5 1	LOAD R	RATING AND POSTING	- COE
(B) TYPE OF MEMBRANE CODE	0	(31) DESIGN LOAD	H 20 + Moo	ł
(C) TYPE OF DECK PROTECTION CODE	E 0	(63) OPERATING RATING METH	IOD - Load Facto	r
		(64) OPERATING RATING -	HS-5 [,]	
AGE AND SERVICE	1984	(65) INVENTORY RATING METH		
,		· · ·	HS-19	
106) YEAR RECONSTRUCTED	0	(66) INVENTORY RATING		
42) TYPE OF SERVICE ON -	Highway	(70) BRIDGE POSTING	No Posting Required	1
OFF - Waterway CODE	15	(41) STRUCTURE OPEN, POSTE	ED, OR CLOSED	
28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE	0	DESCRIPTION	Open, no restriction	
29) AVERAGE DAILY TRAFFIC	750		APPRAISAL	- COD
30) YEAR OF ADT 2019 (109) TRUCK ADT PCT	6	(67) STRUCTURAL EVALUATION	N	
9) BYPASS OR DETOUR LENGTH	9.0	(68) DECK GEOMETRY		
GEOMETRIC DATA		(69) UNDERCLEARANCES, VER	T & HORIZ	
48) LENGTH OF MAXIMUM SPAN	66.0	(71) WATERWAY ADEQUACY		
49) STRUCTURE LENGTH	309.0	(72) APPROACH ROADWAY ALI	GNMENT	
50) CURB OR SIDEWALK: LEFT 0.0 RIGHT	0.0	· · /		
51) BRIDGE ROADWAY WIDTH, CURB TO CURB	24.0	(36) TRAFFIC SAFETY FEATURE		
	26.5	(113) SCOUR CRITICAL BRIDGE		
32) APPROACH ROADWAY WITH (W/ SHOULDERS)	36.0 0		DSED IMPROVEMENTS	
33) BRIDGE MEDIAN No median CODE 34) SKEW 0 (35) STRUCTURE FLARED	0	(75) TYPE OF WORK	CC	DE
10) INVENTORY ROUTE MIN VERT CLEAR	99999.0	(76) LENGTH OF STRUCTURE IN	MPROVEMENT	
47) INVENTORY ROUTE TOTAL HORIZ CLEAR	24.0	(94) BRIDGE IMPROVEMENT CO	DST	
53) MIN VERT CLEAR OVER BRIDGE RDWY	9999.0	(95) ROADWAY IMPROVEMENT	COST	
54) MIN VERT UNDERCLEAR: REFERENCE N	0.0	(96) TOTAL PROJECT COST		
55) MIN LAT UNDERCLEARANCE RT: REFERENCE N	0.0	(97) YEAR OF IMPROVEMENT C	COST ESTIMATE	
56) MIN LAT UNDERCLEARANCE LT:	0.0	(114) FUTURE ADT	1,500 YEAR OF FUTURE ADT	:
38) NAVIGATION CONTROL - CODE	0	(90) INSPECTION DATE	10/23 (91) FREQUENCY	/
		(92) CRITICAL FEATURE INSPEC		
111) PIER PROTECTION CODE				
111) PIER PROTECTION CODE		A) FRACTURE ORIT DETA		
39) NAVIGATION VERTICAL CLEARANCE	0.0			
,	0.0 0.0	A) FRACTURE CRIT DETA B) UNDERWATER INSP C) OTHER SPECIAL INSP	B) C)	

Superstructure Build Details

Skew 90.000

Span Length 41.000

Span Number 1

Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
Elastomeric Bearing Pad	Elastomeric Bearing	16	Each		
Concrete Railing	Reinforced Concrete Bridge Railing	82	Feet		
Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	338	Feet		
Single Point Urban Interchange Deck	Reinforced Concrete Deck	2000	Square Feet		
	Elastomeric Bearing Pad Concrete Railing Prestressed Concrete Girder Single Point Urban Interchange	Elastomeric Bearing Pad Elastomeric Bearing Concrete Railing Reinforced Concrete Bridge Railing Prestressed Concrete Girder Prestressed Concrete Open Girder/Beam Single Point Urban Interchange Reinforced Concrete Deck	Elastomeric Bearing PadElastomeric Bearing16Concrete RailingReinforced Concrete Bridge Railing82Prestressed Concrete GirderPrestressed Concrete Open Girder/Beam338Single Point Urban InterchangeReinforced Concrete Deck2000	Elastomeric Bearing PadElastomeric Bearing16EachConcrete RailingReinforced Concrete Bridge Railing82FeetPrestressed Concrete GirderPrestressed Concrete Open Girder/Beam338FeetSingle Point Urban InterchangeReinforced Concrete Deck2000Square Feet	Elastomeric Bearing Pad Elastomeric Bearing 16 Each Concrete Railing Reinforced Concrete Bridge Railing 82 Feet Prestressed Concrete Girder Prestressed Concrete Open Girder/Beam 338 Feet Single Point Urban Interchange Reinforced Concrete Deck 2000 Square Feet

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	268	Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	134	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1776	Square Feet		
1	Open Joint	Open Expansion Joint	27	Feet		
8	Elastomeric Bearing Pad	Elastomeric Bearing	8	Each		
Span Nu	ımber <u>3</u> Spaı	Length <u>67.000</u>		Sk	ew 90.000	

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
8	Elastomeric Bearing Pad	Elastomeric Bearing	8	Each		
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	268	Feet		
1	Open Joint	Open Expansion Joint	27	Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	134	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1776	Square Feet		
Span Nu	mber <u>4</u> Spar	Length <u>67.000</u>		Sk	ew 90.000	

Number of Items		Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Open Joint	Open Expansion Joint	27	Feet		
8	Elastomeric Bearing Pad	Elastomeric Bearing	8	Each		

Superstructure Build Details

1	Reinforced Concrete Deck	Reinforced Concrete Deck	1776	Square Feet	
2	Concrete Railing	Reinforced Concrete Bridge Railing	134	Feet	
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	268	Feet	

Span Number 5

Span Length 67.000

Skew 90.000

Number of Items	Type of Component	Component Element Name Quantity				Quantity (Sq Ft)
2	Delineator	Warning Signs	2	Each		
1	Open Joint	Open Expansion Joint	27	Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	134	Feet		
8	Elastomeric Bearing Pad	Elastomeric Bearing	8	Each		
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	268	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1776	Square Feet		

Structure Element Scoring

Structure Number: 600229

Inspection Date $\frac{10/17/202}{3}$

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	9,104	9,104	0	0	0
109		Prestressed Concrete Open Girder/Beam	Beam	1,410	1,377	24	9	0
205		Reinforced Concrete Column	Piles and Columns	6	1	5	0	0
215		Reinforced Concrete Abutment	Abutments	117	117	0	0	0
225		Steel Pile	Piles and Columns	8	6	0	0	2
515	225	Steel Protective Coating	Piles and Columns	488	487	0	0	1
234		Reinforced Concrete Pier Cap	Caps	201	190	9	2	0
521	234	Concrete Protective Coating	Caps	500	500	0	0	0
304		Open Expansion Joint	Expansion Joints	108	52	54	2	0
310		Elastomeric Bearing	Bearing Device	48	48	0	0	0
331		Reinforced Concrete Bridge Railing	Bridge Rail	618	511	107	0	0
602		Warning Signs	Ground Mounted Signs	2	1	0	0	1

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 600229

Inspection Date: 10/17/2023

MMS Code	Element Name	Defect Name	Recommended Quantity
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	4 Feet
3306 Prestressed Concrete Open Girder/Bear Exposed		Exposed Prestressing	5 Feet
3306 Prestressed Concrete Open Girder/Bear		Exposed Rebar	1 Feet
3354	Steel Pile	Corrosion	2 Each
3348 Reinforced Concrete Pier Cap		Delamination/Spall	2 Feet
	Open Expansion Joint	Adjacent Deck or Header	2 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	1 Square Feet
3250	1 Each		

Element Structure Maintenance Quantities

Structure Number: 600	229				Ir	spection D	ate <u>10/17/</u>	2023	
Location	MMS Code	-		Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity	
Beam	3306	Maintenance Concrete Superstructure Components	10	1410	0.000	9.000	24.000	1377.000	
Bearing Device	3334	Bridge Bearing	0	48	0.000	0.000	0.000	48.000	
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	618	0.000	0.000	107.000	511.000	
Deck	3326	Maintenance of Concrete Deck	0	7104	0.000	0.000	0.000	7104.000	
Deck 3326 Maintenance of Concrete Deck		Maintenance of Concrete Deck	0	2000	0.000	0.000	0.000	2000.000	
Ground Mounted Signs	3250	Install or Replace Ground Mounted Signs	1	2	1.000	0.000	0.000	1.000	
Abutments	3350	Maintenance of Concrete Wings and Wall	0	117	0.000	0.000	0.000	117.000	
Caps	3348	Maintenance of Concrete Substructure	2	201	0.000	2.000	9.000	190.000	
Caps	5603	Partial Cleaning and Painting of Structural Steel	0	500	0.000	0.000	0.000	500.000	
Piles and Columns	3342	Clean and Paint Steel	1	488	1.000	0.000	0.000	487.000	
Piles and Columns	3348	Maintenance of Concrete Substructure	0	6	0.000	0.000	5.000	1.000	
Piles and Columns	es and Columns 3354 Maintenance of Steel Substructure Components		2	8	2.000	0.000	0.000	6.000	
	1		1	1	1	1	1	1	

Priority Actions Request

	nber <u>600229</u>	_	
Span4			
3306	Beam 1	Prestressed C	oncrete Girder
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Prestressing	2	Span 4 Beam 1: (PAR) AT 24 FEET FROM BENT 3, UNDERSIDE OF BOTTOM FLANGE, SPALL (20 INCHES LONG X UP TO 18 INCHES WIDE X UP TO 1 INCH DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (75 PERCENT REMAINING)
3306	Beam 4	Prestressed C	oncrete Girder
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Prestressing	3	Span 4 Beam 4: (PAR) AT 12 FEET FROM BENT 3, EAST FACE OF BOTTOM FLANGE, SPALL (26 INCHES LONG X 7 INCHES WIDE X UP TO 4 INCHES DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (80 PERCENT REMAINING)
Span5			
3250	Northeast Delineator	Delineator	
Priority Level	Defect Type	Quantity	Defect Description
2	General Condition	1	Span 5 Northeast Delineator: (PAR) NORTHEAST DELINEATOR IS LAYING ON GROUND
Bent 4			
3354	Row 2 Pile 1	Steel Pile	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Bent 4 Row 2 Pile 1: (PAR) NORTH FACE AT CAP, ACTIVE CORROSION WITH SECTION LOSS (FULL WIDTH X 1 INCH HIGH X 0.3125 INCH AVERAGE REMAINING)
3354	Row 2 Pile 3	Steel Pile	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Bent 4 Row 2 Pile 3: (PAR) TOP NORTH FACE AT CAP, ARRESTED CORROSION WITH SECTION LOSS (FULL WIDTH X UP TO 2 INCHES HIGH X 0.25 INCH AVERAGE REMAINING)

? Priority Action Request (PAR) 1 Assigned Routine Maintenance



Element Condition and Maintenance Data

tructure N	Number: <u>600229</u>						Ins	speciion L	Date: 10/17/2023
Spai	n 1	C	Deck						
Sing	gle Point Urban	Interchange Deck							
Elem Num 12	nber	Element Name		Total Qty 2,000	CS1 Qty 2,000	CS2 Qty 0	CS3 Qty 0	CS4 Qty 0 S	Square Feet
Element	t Defect Turne						00.04	Maint	
Number] 12 	Cracking (RC and Other)	HAIRLINE MAP CRA	Defect Descriptio			CS 1	CS Qty 1,500	Qty	Square Feet
·		-							
Spar	n 1	E	Beam 2						
Pres	stressed Concr	ete Girder							
Elem Num 109	nber	Element Name tressed Concrete Open Gir	der/Beam	Total Qty 42	CS1 Qty 40	CS2 Qty 0	CS3 Qty 2	CS4 Qty 0 F	Feet
Element Number	Defect Tune		Defect Description	on		CS	CS Qty	Maint Qty	
7 109	Delamination/Spall	INCHES LONG X 6 I DEEP) WITH EXPOS	NCHES HIGH X 2 SED REBAR (NO I	INCHES		3	2	-	Feet
Spai		X 3 INCHES HIGH).	LAMINATION (13 AT END OF GIRD						
Spar Rein _{Elen}	n 2 nforced Concre nent	X 3 INCHES HIGH).	AT END OF GIRD	Total	CS1	CS2 Otv	CS3 Otv	CS4 Otv	
Spai Rein	n 2 nforced Concre nent nber	X 3 INCHES HIGH).	AT END OF GIRD	PER		CS2 Qty 0	CS3 Qty 0	Qty	Square Feet
Spai Rein Elem Num 12 Element	n 2 nforced Concre nent nber Rein t	X 3 INCHES HIGH) . s te Deck Element Name	AT END OF GIRD	Total Qty 1,776	CS1 Qty	Qty 0	Qty 0	Qty 0 S Maint	Square Feet
Spar Rein Elen 12 Element Number	n 2 nforced Concre nent nber Rein t	X 3 INCHES HIGH) . s te Deck Element Name	AT END OF GIRD	Total Qty 1,776	CS1 Qty	Qty 0	Qty 0	Qty 0 \$	Square Feet Square Feet
Spar Rein Lien Num 12 Element Number J 12	n 2 nforced Concre nent nber Rein t Defect Type Cracking (RC and	X 3 INCHES HIGH).	AT END OF GIRD	Total Qty 1,776	CS1 Qty	Qty 0 CS	Qty 0 CS Qty	Qty 0 S Maint	
Spar Rein Elen Num 12 Element Number 7 12	n 2 nforced Concre nent nber Rein t r Defect Type Cracking (RC and Other) General Comments	X 3 INCHES HIGH)	AT END OF GIRD	Total Qty 1,776	CS1 Qty	Qty 0 CS	Qty 0 CS Qty	Qty 0 S Maint	
Spar Rein Ller Num 12 Element Number 2 12	n 2 nforced Concre nent nber Rein t r Defect Type Cracking (RC and Other) General Comments	X 3 INCHES HIGH).	AT END OF GIRD Deck Defect Descriptic	Total Qty 1,776	CS1 Qty	Qty 0 CS	Qty 0 CS Qty	Qty 0 S Maint	
Spar Rein Ller Num 12 Element Number 7 12	n 2 nforced Concre nent nber Rein t Defect Type Cracking (RC and Other) General Comments n 2 stressed Concr nent nber	X 3 INCHES HIGH).	AT END OF GIRD Deck Defect Description ACKING THROUG Beam 4	Total Qty 1,776	CS1 Qty	Qty 0 CS	Qty 0 CS Qty	Qty 0 S Maint Qty CS4 Qty	
Spai Rein Liem 12 Element Number 12 12 C Spai Pres Elem Num 109	n 2 nforced Concrement ment mber Cracking (RC and Other) General Comments n 2 stressed Concrement ment mber Pres	X 3 INCHES HIGH)	AT END OF GIRD Deck Defect Descriptic ACKING THROUG Beam 4 der/Beam	Total Qty 1,776 MOUT Total Qty 67	CS1 Qty 1,776	Qty 0 CS 1 CS2 Qty 0	Qty 0 CS Qty 1,250 CS3 Qty 2	Qty 0 5 Maint Qty CS4 Qty 0 F Maint	Square Feet
Spai Rein Ller Num 12 Element Number 2 12 Spai Pres Eler Num 109	n 2 nforced Concrement ment mber Cracking (RC and Other) General Comments n 2 stressed Concrement ment mber Pres	X 3 INCHES HIGH).	AT END OF GIRD Deck Defect Description ACKING THROUG Beam 4 der/Beam Defect Description EB AT BENT 1, SP NCHES HIGH X 3 DELAMINATION (1	Total Qty 1,776 on HOUT Total Qty 67 on ALL (11 /4 INCH DEE	CS1 Qty 1,776 CS1 Qty 65	Qty 0 CS 1 CS2 Qty	Qty 0 CS Qty 1,250	Qty 0 5 Maint Qty CS4 Qty 0 F Maint Qty	Square Feet

General Comments

Spa	an 2	Left Bridge R	ail					
Cor	ncrete Railing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfo	orced Concrete Bridge Railing	67	13	54	0	0 Feet	
Elemer Numbe	Dofact Type	Defect Descrip	tion		CS	CS Qty	Maint Qty	
/ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LO HAIRLINE MAP CRACKING	CATIONS,		2	25	Feet	
∕ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LO VERTICAL CRACKS (UP TO FULL F 1/32 INCH WIDE) SOME WRAPARC EFFLORESCENCE	HEIGHT X UP TO		2	29	Feet	
	General Comments							_

Spa	n 2	Right Bridge F	Rail					
Con	crete Railing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	67	51	16	0	0 Feet	
Elemen Numbe	Defect Type	Defect Descripti	ion		CS	CS Qty	Maint Qty	
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOC HAIRLINE MAP CRACKING	ATIONS,		2	5	Feet	
√ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOC VERTICAL CRACKS (UP TO FULL H 1/32 INCH WIDE) SOME WRAPAROU EFFLORESCENCE	EIGHT X UP TO		2	11	Feet	

General Comments

004
004
CS4 Qty
0 Feet
Maint Qty
Feet

Span 3		Deck						
Reinfor	ced Concrete Deck							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck		1,776	1,776	0	0	0	Square Feet
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	

Structure Nu	umber: <u>600229</u>			Inspection E)ate: <u>10/17/2023</u>
√ 12 □	Delamination/Spall	1 INCH WIDE X 4 INCHES LONG X 2 INCHES DEEP SPALL NEAR THE CENTERLINE OF THE BRIDGE AT JOINT OVER BENT 2-MOVED TO DECK HEADER AT SPAN 3 BENT 2 JOINT	3		Square Feet
✓ 12 □	Delamination/Spall	1 INCH WIDE X 9 INCHES LONG X 1 INCH DEEP SPALL AT JOINT OVER BENT 3 EDGE AT CENTERLINE OF ROADWAY-MOVED TO DECK HEADER AT SPAN 4 BENT 3 JOINT	3		Square Feet
	Cracking (RC and Other)	HAIRLINE MAP CRACKING THROUGHOUT.	1	1,250	Square Feet
Ge	eneral Comments				

Span 3

Beam 3

Prestressed Concrete Girder

Elen Num 109	nber	Element Name ssed Concrete Open Girder/Beam	Total Qty 67	CS1 Qty 67	CS2 Qty 0	CS3 Qty 0	CS4 Qty 0	Feet
Element Number	Defect Turne	Defect Description			CS	CS Qty	Maint Qty	
√ 109	Exposed Rebar	END DIAPHRAGM AT BAY 3 BENT 2, SI EXPOSED REBAR (4 INCH DIAMETER DEEP) WITH EXPOSED REBAR (90 PEI REMAINING)	X 1/2 INCH		3			1 Feet

General Comments

Spa	n 3	Left Bridge Rai	il					
Con	crete Railing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	67	53	14	0	0 Feet	
Elemen Numbe	Defect Type	Defect Description	on		CS	CS Qty	Maint Qty	
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCA HAIRLINE MAP CRACKING	ATIONS,		2	7	Feet	
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCA VERTICAL CRACKS (UP TO FULL HE 1/32 INCH WIDE) SOME WRAPAROU EFFLORESCENCE	EIGHT X UP TO		2	7	Feet	

Spa		Right Bridge	Rail				
Con	crete Railing						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinfor	ced Concrete Bridge Railing	67	63	4	0	0 Feet
Elemen Number	Dofact Type	Defect Descrip	otion		CS	CS Qty	Maint Qty
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LO HAIRLINE MAP CRACKING	CATIONS,		2	2	Feet
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LC VERTICAL CRACKS (UP TO FULL 1/32 INCH WIDE) SOME WRAPAR(EFFLORESCENCE	HEIGHT X UP TO		2	2	Feet

Span 3		Expansion Jo	int				
Open Jo	aint	Expansion 50	iiit				
•	Jiiit		Tatal	004	000	002	004
Element Number 304	Open Ex	Element Name pansion Joint	Total Qty 27	CS1 Qty 26	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Feet
Element Number	Defect Type	Defect Descript	tion		CS	CS Qty	Maint Qty
	acent Deck or	NEAR CENTERLINE AT BENT 2 JOI SIDE, SPALL (4 INCHES LONG X 12 X 2 INCHES DEEP)	NT ON SPAN 2		3	1	1 Feet
Gene	eral Comments						
Span 4		Deck					
Reinford	ced Concrete I	Deck					
Element Number 12	Reinforce	Element Name ed Concrete Deck	Total Qty 1,776	CS1 Qty 1,776	CS2 Qty 0	CS3 Qty 0	CS4 Qty 0 Square Feet
Element Number	Defect Type	Defect Descript	tion		CS	CS Qty	Maint Qty
	amination/Spall	1 FOOT WIDE X 9 INCHES LONG X SPALL AT THE EXPANSION JOINT CENTERLINE OF ROADWAY-MOVE HEADER AT SPAN 3 BENT 3 JOINT	1 INCH DEEP EDGE AT		2		Square Feet
✓ 12 Crac Othe	cking (RC and er)	HAIRLINE MAP CRACKING THROU	GHOUT.		1	1,250	Square Feet
Gene	eral Comments						
Span 4		Beam 1					
Prestres	ssed Concrete	Girder					
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestress	sed Concrete Open Girder/Beam	67	65	0	2	0 Feet
Element	Defect Type	Defect Descript	tion		CS	CS Qty	Maint
Number	osed Prestressing	(PAR) AT 24 FEET FROM BENT 3, U			3	2	Qty 2 Feet
	used i restressing	BOTTOM FLANGE, SPALL (20 INC) TO 18 INCHES WIDE X UP TO 1 INC TWO (2) EXPOSED AND RUSTED F STRANDS (75 PERCENT REMAININ	IES LONG X UP CH DEEP) WITH PRESTRESSED				
✓ 109 Expo	eral Comments	BOTTOM FLANGE, SPALL (20 INCH TO 18 INCHES WIDE X UP TO 1 INC TWO (2) EXPOSED AND RUSTED F	IES LONG X UP CH DEEP) WITH PRESTRESSED				
√ 109 Expo		BOTTOM FLANGE, SPALL (20 INCH TO 18 INCHES WIDE X UP TO 1 INC TWO (2) EXPOSED AND RUSTED F	IES LONG X UP CH DEEP) WITH PRESTRESSED				
✓ 109 Expo Gene Span 4		BOTTOM FLANGE, SPALL (20 INCH TO 18 INCHES WIDE X UP TO 1 INC TWO (2) EXPOSED AND RUSTED F STRANDS (75 PERCENT REMAININ Beam 4	IES LONG X UP CH DEEP) WITH PRESTRESSED				
✓ 109 Expo Gene Span 4	eral Comments	BOTTOM FLANGE, SPALL (20 INCH TO 18 INCHES WIDE X UP TO 1 INC TWO (2) EXPOSED AND RUSTED F STRANDS (75 PERCENT REMAININ Beam 4	IES LONG X UP CH DEEP) WITH PRESTRESSED		CS2 Qty 3	CS3 Qty 3	CS4 Qty 0 Feet

Structure	Number: 600229			Inspection	Date: <u>10/17/2023</u>
V 109	Exposed Prestressing	(PAR) AT 12 FEET FROM BENT 3, EAST FACE OF BOTTOM FLANGE, SPALL (26 INCHES LONG X 7 INCHES WIDE X UP TO 4 INCHES DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (80 PERCENT REMAINING)	3	3	3 Feet
√ 109	Patched Area	NEW REPAIR: EAST FACE BOTTOM FLANGE 15 FEET SOUTH OF BENT 4, SPALL (26 INCHES LONG X 5 INCHES WIDE X UP TO 2.5 INCHES DEEP) WITH ONE EXPOSED PRESTRESSED STRANDS WITH LOSS UP TO 100 PERCENT ON MULTIPLE INDIVIDUAL STRANDS-PATCHED SINCE PREVIOUS INSPECTION 2023	2	3	Feet

General Comments

Spa Con	crete Railing	Leit bridge r	Left Bridge Rail				
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinfo	ced Concrete Bridge Railing	67	62	5	0	0 Feet
Element	Dofoct Type	Defect Descri	ption		CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LC HAIRLINE MAP CRACKING	OCATIONS,		2	3	Feet
331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LC VERTICAL CRACKS (UP TO FULL 1/32 INCH WIDE) SOME WRAPAR(EFFLORESCENCE	HEIGHT X UP TO		2	2	Feet

General Comments

Spa	in 4	Right Bridge R	ail					
Cor	crete Railing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	67	64	3	0	0 Feet	
Elemer Numbe	Dofact Type	Defect Descriptio	n		CS	CS Qty	Maint Qty	
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCA HAIRLINE MAP CRACKING	TIONS,		2	1	Feet	
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCA VERTICAL CRACKS (UP TO FULL HE 1/32 INCH WIDE) SOME WRAPAROU EFFLORESCENCE	IGHT X UP TO		2	2	Feet	

Spai Ope	n 4 n Joint	Expansio	n Joint					
Elen Num 304	nber	Element Name xpansion Joint	Total Qty 27	CS1 Qty 26	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
<mark>√</mark> 304	Adjacent Deck or Header	NEAR CENTERLINE AT BENT SIDE, SPALL (9 INCHES LONG X 1 INCH DEEP)			3	1	1 Feet	

General Comments

Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12		rced Concrete Deck	1,776	1,776	0	0	-	Square Feet
Element Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
	Cracking (RC and Other)	HAIRLINE MAP CRACKING THE	ROUGHOUT.		1	1,250	-	Square Feet

Prestressed Concrete Girder

Elemo Numb 109	ber	Element Name essed Concrete Open Girder/Beam	Total Qty 67	CS1 Qty 65	CS2 Qty 2	CS3 Qty 0	CS4 Qty 0 Feet
Element Number	Defect Type	Defect Descripti	on		CS	CS Qty	Maint Qty
7 109 ∣	Patched Area	NEW REPAIR: UNDERSIDE BOTTOM 14 FEET FROM BENT 4, SPALL (20 I X 14 INCHES WIDE X UP TO 1.5 INC MULTIPLE EXPOSED PRESTRESS S LOSS UP TO 100 PERCENT ON IND STRANDS-PATCHED SINCE PREVIO INSPECTION 2023	NCHES LONG H DEEP) WITH STRANDS, WIDUAL		2	2	Feet

General Comments

Spa	n 5	Beam 4						
Pres	stressed Con	crete Girder						
	nent nber Pr	Element Name estressed Concrete Open Girder/Beam	Total Qty 67	CS1 Qty 48	CS2 Qty 19		CS4 Qty 0 Feet	
Elemen Numbe	Dofoct Tyr	De Defect Description			CS	CS Qty	Maint Qty	
√ 109	Patched Area	NEW REPAIRS: UNDERSIDE OF BOTT AT 12 FEET (FOR 40 INCHES), AT 17 F INCHES), AT 23 FEET (FOR 54 INCHES) FEET (FOR 35 INCHES), AT 41 FEET (F INCHES) FROM BENT 4, SPALLS (UP 1 INCHES X UP TO 2.75 INCHES DEEP) MULTIPLE EXPOSED PRESTRESSED LOSS UP TO 100 PERCENT ON INDIVI STRANDS-ALL SPALLS HAVE BEEN P/ SINCE PREVIOUS INSPECTION 2023	EET (FOR 61 S), AT 30 FOR 34 FO 14 WITH STRANDS, DUAL		2	19	Fe	et

Span 5

Concrete Railing

Elem Num 331	iber	Element Name ced Concrete Bridge Railing	Total Qty 67	CS1 Qty 62	CS2 Qty 5		CS4 Qty 0 Feet
Element Number	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty
/ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LO HAIRLINE MAP CRACKING	DCATIONS,		2	3	Feet
7 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LC VERTICAL CRACKS (UP TO FULL 1/32 INCH WIDE) SOME WRAPAR EFFLORESCENCE	HEIGHT X UP TO		2	2	Feet

General Comments

Spa	ın 5	Right Bridge F	Rail					
Cor	crete Railing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfo	ced Concrete Bridge Railing	67	61	6	0	0 Feet	
Elemen Numbe	Dofoct Typo	Defect Descripti	on		CS	CS Qty	Maint Qty	
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOC HAIRLINE MAP CRACKING	ATIONS,		2	2	Feet	
✓ 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOC VERTICAL CRACKS (UP TO FULL H 1/32 INCH WIDE) SOME WRAPAROU EFFLORESCENCE	EIGHT X UP TO		2	4	Feet	

General Comments

Span 5		Expansion	Joint					
Open Jo	oint							
Element Number 304	Open E	Element Name xpansion Joint	Total Qty 27	CS1 Qty 0	CS2 Qty 27	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
√ 304 Deb	ris Impaction	ALONG LENGTH, AREAS OF DE (FULL LENGTH) WITH VEGETAT			2	27	Feet	
Gene	ral Comments							_
Span 5		Northeast I	Delineator					
Delineat	or							
Element Number 602	Warning	Element Name Signs	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty 1 Each	

Element Number		Defect Description	cs	CS Qty	Maint Qty
✔ 602	General Condition	(PAR) NORTHEAST DELINEATOR IS LAYING ON GROUND	4	1	1 Each

Structure Number: 600229 Inspection Date: 10/17/2023 Cap 1 Bent 1 **Reinforced Concrete Pier Cap** CS1 CS2 CS4 Element Total CS3 **Element Name** Number Qty Qty Qty Qty Qty 234 Reinforced Concrete Pier Cap 26 26 0 0 0 Feet 521 Concrete Protective Coating 80 80 0 0 0 Square Feet Element Maint **Defect Type Defect Description** CS CS Qty Number Qty ✓ 234 Efflorescence/Rust LEAKAGE STAINING ALONG FACES OF CAP 2 Feet Staining **General Comments** Pile 1 Bent 1 **Reinforced Concrete Column** CS1 CS2 CS3 CS4 Element Total **Element Name** Number Qty Qty Qty Qty Qty 205 **Reinforced Concrete Column** 0 0 0 Each 1 1 Element Maint **Defect Type Defect Description** CS CS Qty Number Qty Abrasion/Wear AT BASE OF COLUMN, ABRASION WITH EXPOSED 2 ✓ 205 1 Each (PSC/RC) AGGREGATE **General Comments** End Bent 2 Cap 1 **Reinforced Concrete Pier Cap** Total CS1 CS2 CS3 CS4 Element **Element Name** Number Qty Qty Qty Qty Qty 234 Reinforced Concrete Pier Cap 0 Feet 29 28 1 0 521 Concrete Protective Coating 50 0 0 Square Feet 50 0 Element Maint CS Qty **Defect Type Defect Description** CS Number Qty 234 Cracking (RC and TOP SURFACE BELOW BAY 2, TRANSVERSE 2 1 Feet Other) CRACK (FULL WIDTH X 0.012 INCH WIDE) **General Comments** Bent 2 Cap 1 **Reinforced Concrete Pier Cap** CS1 CS2 CS4 Element Total CS3 Number **Element Name** Qty Qty Qty Qty Qty 234 Reinforced Concrete Pier Cap 26 26 0 0 0 Feet 521 Concrete Protective Coating 80 80 0 0 0 Square Feet Element Maint **Defect Type Defect Description** cs CS Qty Number Qty 234 LEAKAGE STAINING ALONG FACES OF CAP 2 Efflorescence/Rust Feet Staining **General Comments**

Structure Number: 600229

Bent 2

Reinforced Concrete Column

Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ced Concrete Column	1	0	1	0	0 E	ach
Element Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
	Abrasion/Wear (PSC/RC)	AT BASE OF COLUMN, ABRASI AGGREGATE	ON WITH EXPOSED		2	1		Each

General Comments

Bent 2

Bent 3

Pile 2

Pile 1

Reinforced Concrete Column

	nent nber Reinford	Element Name ed Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0 Each	
Elemen Number	Defect Tune	Defect Descri	ption		CS	CS Qty	Maint Qty	
✓ 205	Abrasion/Wear (PSC/RC)	AT BASE OF COLUMN, ABRASIO AGGREGATE	N WITH EXPOSED		2	1	Each	

General Comments

Cap 1

Reinforced Concrete Pier Cap

Elem Num 234	iber	Element Name ced Concrete Pier Cap	Total Qty 26	CS1 Qty 20	CS2 Qty 4	CS3 Qty 2	CS4 Qty 0 Feet
521	Concre	te Protective Coating	80	80	0	0	0 Square Feet
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty
234	Delamination/Spall	KEEPER BLOCK AT SPAN 3 BEA INCHES LONG X 9 INCHES HIGH INCHES DEEP)			3	1	1 Feet
234	Delamination/Spall	KEEPER BLOCK AT SPAN 3 BEA TO 5 INCHES LONG X 8 INCHES INCHES DEEP)			3	1	1 Feet
	Cracking (RC and Other)	UNDERSIDE BETWEEN COLUMI TRANSVERSE CRACKS (8 INCH HAIRLINE) SOME EXTEND UP TO	ES LONG X		2	4	Feet
/ 234	Efflorescence/Rust Staining	LEAKAGE STAINING ALONG FAC	CES OF CAP		2		Feet

General Comments

Bent 3

Pile 1

Reinforced Concrete Column

Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ed Concrete Column	1	0	1	0	0 Each	
Element Number	Defect Tune	Defect Description	n		CS	CS Qty	Maint Qty	
✓ 205	Abrasion/Wear (PSC/RC)	AT BASE OF COLUMN, ABRASION WI AGGREGATE	TH EXPOSED		2	1	Each	

Structure Number: 600229

✓ 205 Patched Area

NORTH AND WEST FACE AT MID-HEIGHT, TWO (2) SOUND PATCHES (UP TO 15 INCHES HIGH X 9 INCHES WIDE) Inspection Date: 10/17/2023

2

Each

General	Comments
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Ben	it 3	Pile 2						
Reir	nforced Concret	e Column						
	nent		Total	CS1	CS2	CS3	CS4	
Nun 205	nber Roinfr	Element Name	Qty 1	Qty 0	Qty	Qty 0	Qty	Each
205	Reinio		I	0	I	0	0	Each
Elemen Number	Defect Tune	Defect Descri	iption		cs	CS Qty	Maint Qty	
205	Abrasion/Wear (PSC/RC)	AT BASE OF COLUMN, ABRASIO AGGREGATE	N WITH EXPOSED		2	1		Each
-	General Comments							
Ben	it 4	Cap 1						
		eap .						
Dela		D'						
Reir	nforced Concret	e Pier Cap						
Elen	ment		Total	CS1	CS2	CS3	CS4	
Elen Num	nent nber	Element Name	Qty	Qty	Qty	Qty	Qty	East
Elen Nun 234	nent nber Reinfo	Element Name prced Concrete Pier Cap	Qty 26	Qty 22	Qty 4	Qty 0	Qty 0	Feet
Elen Num	nent nber Reinfo	Element Name	Qty	Qty	Qty	Qty	Qty 0	Feet Square Feet
Elen Nun 234	nent nber Reinfo Concr	Element Name prced Concrete Pier Cap	Qty 26 95	Qty 22	Qty 4	Qty 0	Qty 0	
Elen Nun 234 521 Elemen	nent nber Reinfo Concr	Element Name proced Concrete Pier Cap rete Protective Coating	Qty 26 95 iption TICAL CRACK (6	Qty 22	Qty 4 0	Qty 0 0	Qty 0 0 Maint	
Elen Nun 234 521 Elemen Number	ment nber Concr t r Defect Type Cracking (RC and	Element Name orced Concrete Pier Cap rete Protective Coating Defect Descri NORTH FACE OVER PILE 4, VER	Qty 26 95 iption TICAL CRACK (6 i WIDE)	Qty 22	Qty 4 0 CS	Qty 0 0 CS Qty	Qty 0 0 Maint	Square Feet

Ben	nt 4	Row 2 Pile 1					
Stee	el Pile						
	ment mber St	Element Name eel Pile	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty 1 Each
515	St	eel Protective Coating	61	60	0	0	1 Square Feet
Elemen							Maint
Numbe	Dofact Tv	De Defect Descrip	tion		CS	CS Qty	Qty
Numbe V 225	Dofact Tv	Defect Descrip (PAR) NORTH FACE AT CAP, ACTI WITH SECTION LOSS (FULL WIDT X 0.3125 INCH AVERAGE REMAIN	VE CORROSION H X 1 INCH HIGH		CS 4	CS Qty 1	
	er Defect Typ	(PAR) NORTH FACE AT CAP, ACTI WITH SECTION LOSS (FULL WIDT X 0.3125 INCH AVERAGE REMAIN NORTH FACE AT CAP, FAILED CO	VE CORROSION H X 1 INCH HIGH ING)			CS Qty 1 1	Qty

Structure	Number: <u>600229</u>					Ins	spection	Date: <u>10/17/2023</u>
Ber	nt 4	Row 2 Pile 3						
Ste	el Pile							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pil	e	1	0	0	0	1	Each
515	Steel Pr	otective Coating	61	61	0	0	0	Square Feet
Elemer Numbe	Dofact Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
225	Corrosion	(PAR) TOP NORTH FACE AT CAP, CORROSION WITH SECTION LOS UP TO 2 INCHES HIGH X 0.25 INC REMAINING)	S (FULL WIDTH X		4	1		1 Each
515	Effectiveness (Steel Protective Coatings)	TOP NORTH FACE AT CAP, FAILE PAINTED OVER	D COATING-		1			Square Feet

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Single Point Urban Interchange Deck	Reinforced Concrete Deck	2000
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	42
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 1	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 1	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	42
Span 1	Beam 7	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 1	Beam 8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	45
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1776
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 2	Expansion Joint	Open Joint	Open Expansion Joint	27
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1776
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 3	Expansion Joint	Open Joint	Open Expansion Joint	27
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1776
Span 4	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 4	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 4	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 4	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 4	Expansion Joint	Open Joint	Open Expansion Joint	27
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1776
Span 5	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 5	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 5	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 5	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 5	Expansion Joint	Open Joint	Open Expansion Joint	27
Span 5	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 5	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Northwest Delineator	Delineator	Warning Signs	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	68
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	80
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 4	Row 1 Pile 1	Steel Pile	Steel Pile	1
Bent 4	Row 2 Pile 1	Steel Pile	Steel Pile	1
Bent 4	Row 2 Pile 2	Steel Pile	Steel Pile	1
Bent 4	Row 1 Pile 2	Steel Pile	Steel Pile	1
Bent 4	Row 1 Pile 3	Steel Pile	Steel Pile	1
Bent 4	Row 2 Pile 3	Steel Pile	Steel Pile	1
Bent 4	Row 2 Pile 4	Steel Pile	Steel Pile	1
Bent 4	Row 1 Pile 4	Steel Pile	Steel Pile	1

General Inspection Notes

Northwest Delineator

NORTHWEST DELINEATOR HAS BEEN INSTALLED SINCE PREVIOUS INSPECTION 2023

Span 5

National Bridge and NC Inspection Items

Structure Number: 600229

Inspection Date: 10/17/2023

National Bridge Inventory Items

	Grade	Grade Scale	Item
Note:	7	0-9,N	Item 58: Deck
Items 5	6	0-9, N	Item 59: Superstructure
inspect	7	0-9, N	Item 60: Substructure
For ove see co	7	0-9,N	Item 61: Channel and Channel Protection
	N	0-9,N	Item 62: Culvert
	7	0-9,N	Item 71: Waterway Adequacy
	8	0 - 9 , N	Item 72: Approach Roadway Alignment

tems 58,59,60,62 reflect this nspection only.

or overall NBI coding grade, ee cover sheet.

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation		L		
Drift	G, F, P, or C	F	2	3366
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code				

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	Y
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	8
Traffic Control Time	Hours	6
Snooper Time	Hours	5
Ladder Used	YES/NO	N
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	Ν

National Bridge and NC SMU Inspection Item Details

re Numi	ber: 600229		Ir	nspection Date: 10
Item	Substructure - Item 60	Grade 7	Maint Code	Qty. 0
Details	SUBSTRUCTURE DOWNGRADED TO GOOD CONDI ON PILES	TION "NBI RATIN	G 7" DUE CORROSION \	WITH SECTION LOSS
Item	Drift	Grade F	Maint Code 3366	Qty. 2
Details	AT SOUTHEAST FACE OF BENT 3, DRIFT ACCUMUL	ATION (2 FEET L	ONG X 4 FEET WIDE X	UP TO 1 FOOT HIGH
-				
Item	General Comments and Misc Items	Grade	Maint Code	Qty. 0
	General Comments and Misc Items SOUTHEAST GUARDRAIL NEAR SOUTH APPROACH			Qty. 0
		H, SCRAPE MARK	S (10 FEET LONG)	Qty. 0
	SOUTHEAST GUARDRAIL NEAR SOUTH APPROACH	H, SCRAPE MARK	S (10 FEET LONG)	Qty. 0

County: MITCHELL

Date: 10/17/2023



Span 2 Deck: HAIRLINE MAP CRACKING THROUGHOUT



Span 2 Beam 4: WEST FACE OF WEB AT BENT 1, SPALL (11 INCHES LONG X 3 INCHES HIGH X 3/4 INCH DEEP) WITH ADJACENT DELAMINATION (11 INCHES LONG X 4 INCHES HIGH)

County: MITCHELL

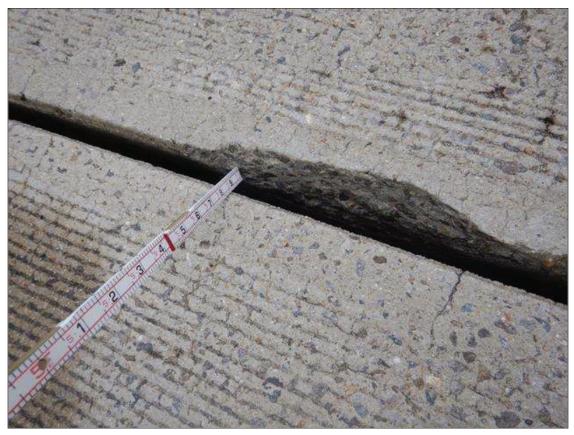
Date: 10/17/2023



Span 2 Beam 4: WEST FACE OF WEB AT BENT 2, SPALL (4 INCHES LONG X 10 INCHES HIGH X 1 INCH DEEP) WITH ADJACENT DELAMINATION (10 INCHES LONG X 12 INCHES HIGH)



Span 2 Left Bridge Rail: ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE



Span 3 Expansion Joint: NEAR CENTERLINE AT BENT 2 JOINT ON SPAN 2 SIDE, SPALL (4 INCHES LONG X 12 INCHES WIDE X 2 INCHES DEEP)



Span 3 Beam 3: END DIAPHRAGM AT BAY 3 BENT 2, SPALL WITH EXPOSED REBAR (4 INCH DIAMETER X 1/2 INCH DEEP) WITH EXPOSED REBAR (90 PERCENT REMAINING)

Structure: 600229

County: MITCHELL

Date: 10/17/2023

Condition Photos



Span 4 Beam 1: (PAR) AT 24 FEET FROM BENT 3, UNDERSIDE OF BOTTOM FLANGE, SPALL (20 INCHES LONG X UP TO 18 INCHES WIDE X UP TO 1 INCH DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (75 PERCENT REMAINING)

Date: 10/17/2023

Condition Photos



Span 4 Beam 4: NEW REPAIR: EAST FACE BOTTOM FLANGE 15 FEET SOUTH OF BENT 4, SPALL (26 INCHES LONG X 5 INCHES WIDE X UP TO 2.5 INCHES DEEP) WITH ONE EXPOSED PRESTRESSED STRANDS WITH LOSS UP TO 100 PERCENT ON MULTIPLE INDIVIDUAL STRANDS-PATCHED SINCE PREVIOUS INSPECTION 2023



Span 4 Beam 4: (PAR) AT 12 FEET FROM BENT 3, EAST FACE OF BOTTOM FLANGE, SPALL (26 INCHES LONG X 7 INCHES WIDE X UP TO 4 INCHES DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (80 PERCENT REMAINING)

Date: 10/17/2023



Span 5 Beam 1: NEW REPAIR: UNDERSIDE BOTTOM FLANGE AT 14 FEET FROM BENT 4, SPALL (20 INCHES LONG X 14 INCHES WIDE X UP TO 1.5 INCH DEEP) WITH MULTIPLE EXPOSED PRESTRESS STRANDS, LOSS UP TO 100 PERCENT ON INDIVIDUAL STRANDS-PATCHED SINCE PREVIOUS INSPECTION 2023 Structure: 600229

County: MITCHELL

Date: 10/17/2023

Condition Photos



County: MITCHELL

Date: 10/17/2023

Condition Photos



County: MITCHELL

Date: 10/17/2023

Condition Photos



Date: 10/17/2023

Condition Photos



Date: 10/17/2023

Condition Photos



Span 5 Beam 4: NEW REPAIRS: UNDERSIDE OF BOTTOM FLANGE AT 12 FEET (FOR 40 INCHES), AT 17 FEET (FOR 61 INCHES), AT 23 FEET (FOR 54 INCHES), AT 30 FEET (FOR 35 INCHES), AT 41 FEET (FOR 34 INCHES) FROM BENT 4, SPALLS (UP TO 14 INCHES X UP TO 2.75 INCHES DEEP) WITH MULTIPLE EXPOSED PRESTRESSED STRANDS, LOSS UP TO 100 PERCENT ON INDIVIDUAL STRANDS-ALL SPALLS HAVE BEEN PATCHED SINCE PREVIOUS INSPECTION 2023

Date: 10/17/2023

Condition Photos



Bent 2 Pile 1: AT BASE OF COLUMN, ABRASION WITH EXPOSED AGGREGATE



Bent 3 Cap 1: KEEPER BLOCK AT SPAN 3 BEAM 1, SPALL (12 INCHES LONG X 9 INCHES HIGH X UP TO 4 INCHES DEEP)

Date: 10/17/2023

Condition Photos



Bent 3 Cap 1: KEEPER BLOCK AT SPAN 3 BEAM 4, SPALL (UP TO 5 INCHES LONG X 8 INCHES WIDE X UP TO 2 INCHES DEEP)



Bent 3 Cap 1: UNDERSIDE BETWEEN COLUMNS, MULTIPLE TRANSVERSE CRACKS (8 INCHES LONG X HAIRLINE) SOME EXTEND UP TO VERTICAL FACE

Date: 10/17/2023

Condition Photos



Bent 4 Cap 1: NEW REPAIR: NORTH FACE AT PILE 3, SPALL, (28 INCHES LONG X 9.5 INCHES HIGH X UP TO 3.5 INCHES DEEP) WITH EXPOSED RUSTED REINFORCING, NO LOSS NOTED-PATCHED SINCE PREVIOUS INSPECTION 2023

County: MITCHELL

Date: 10/17/2023

Condition Photos



Bent 4 Row 2 Pile 1: (PAR) NORTH FACE AT CAP, ACTIVE CORROSION WITH SECTION LOSS (FULL WIDTH X 1 INCH HIGH X 0.3125 INCH AVERAGE REMAINING)



Bent 4 Row 2 Pile 3: (PAR) TOP NORTH FACE AT CAP, ARRESTED CORROSION WITH SECTION LOSS (FULL WIDTH X UP TO 2 INCHES HIGH X 0.25 INCH AVERAGE REMAINING)

Date: 10/17/2023

Condition Photos



Bent 4 Cap 1: NORTH FACE OVER PILE 4, VERTICAL CRACK (6 INCHES HIGH X UP TO 1/32 INCH WIDE)



Drift: AT SOUTHEAST FACE OF BENT 3, DRIFT ACCUMULATION (2 FEET LONG X 4 FEET WIDE X UP TO 1 FOOT HIGH)

County: MITCHELL

Date: 10/17/2023

Condition Photos



Guardrails: SOUTHEAST GUARDRAIL NEAR SOUTH APPROACH, SCRAPE MARKS (10 FEET LONG)



General: ALONG RIGHT OVERHANG AT SPANS 4 AND 5, VEGETATION GROWTH

County: MITCHELL

Date: 10/17/2023

Condition Photos



Span 5 Northeast Delineator: (PAR) NORTHEAST DELINEATOR IS LAYING ON GROUND

Stream Bed Soundings (Profile diagram on following sheet)

County MITCHELL

Structure Number: 600229

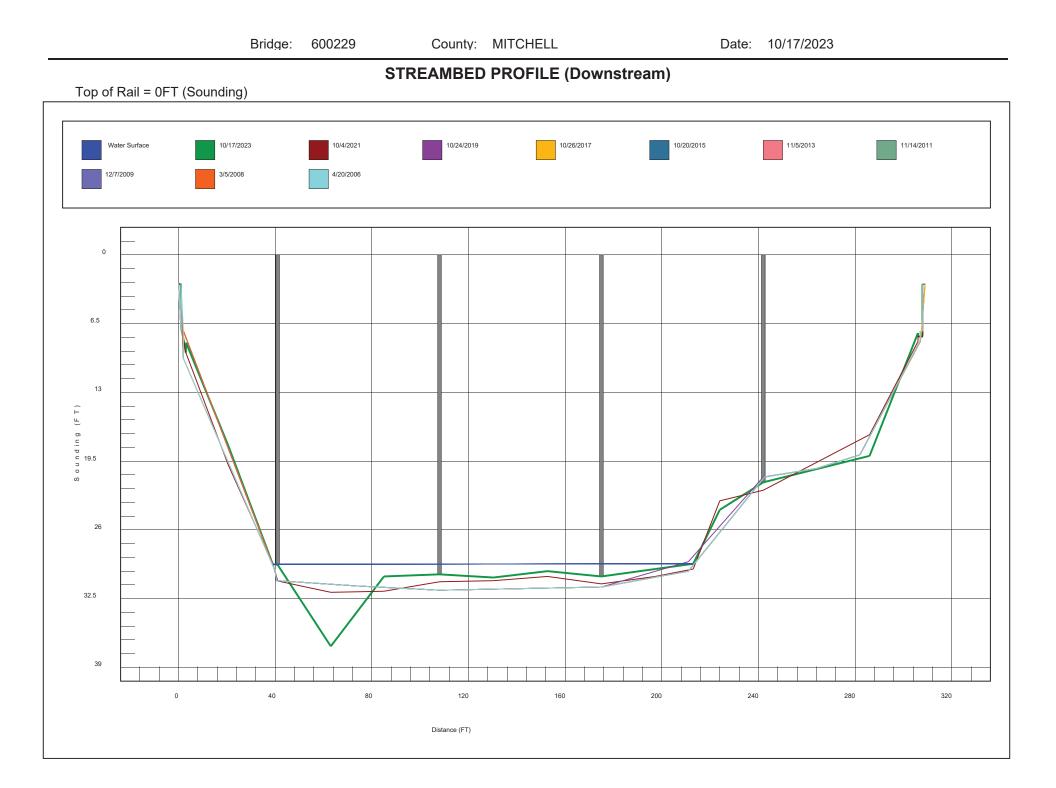
Sounding Date 10/17/2023

Sounding recorded from: Top of Bridge Rail

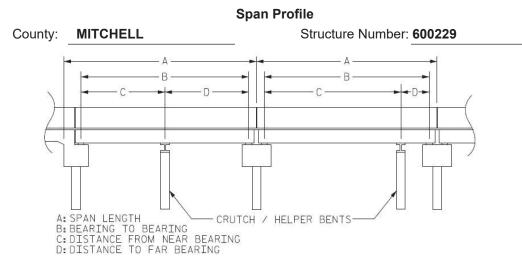
Highwater Mark Distance

Location of Highwater Mark NONE

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.750	0.000	FILL FACE
1.000	2.750	0.000	FACE OF CAP
1.010	6.700	0.000	CAP AT BACKWALL
3.000	9.250	0.000	FACE OF CAP
3.100	8.300	7.900	GROUND AT CAP
20.500	18.000	0.000	SLOPE
39.000	29.250	0.000	WSWE
41.000	29.300	27.900	BENT 1
63.000	37.000	0.000	STREAMBED
85.000	30.400	0.000	STREAMBED
108.000	30.200	30.500	BENT 2
130.300	30.500	0.000	STREAMBED
152.700	29.900	0.000	STREAMBED
175.000	30.400	30.200	BENT 3
197.300	29.700	0.000	STREAMBED
213.000	29.200	0.000	WSWE
224.000	24.100	0.000	SLOPE
242.000	21.500	22.800	BENT 4
286.000	19.000	0.000	SLOPE
305.990	7.400	7.300	GROUND AT CAP
306.000	7.700	0.000	FACE OF CAP
307.990	7.700	0.000	CAP AT BACKWALL
308.000	2.750	0.000	FACE OF BACKWALL
309.000	2.750	0.000	FILL FACE



Structure Data Worksheet



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	41.000	38.500			
2	67.000	65.500			
3	67.000	65.500			
4	67.000	65.500			
5	67.000	64.500			

Bridge Inspection Field Sketch

SR1357

Roadway	182ft Wide		Looking North
Left Shoulder	9ft Wide	9ft Paved	
Right Shoulder	9ft Wide	9ft Paved	
Left Guardrail			
Right Guardrail			

MEASUREMENTS TAKEN AT 50 FEET EAST OF INTERSECTION AT SOUTH END

MEASUREMENTS VERIFIED BY MW 0N 10/17/23

Title	Description						
APPROACH ROADWAY SKETCH	SUPERSTRUCTURE						
Structure No: 600229	Drawn By:	ZK		Date:	10/27/2023	Filename:	S001170000429.wes

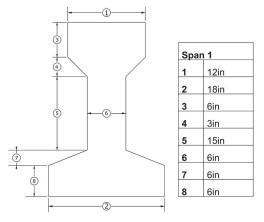
Bridge Inspection Field Sketch

Deck Width/Out to Out	63.667ft	Betwee	60.33	ft			
Clear Roadway	60.333ft	Wearing	Wearing Surface				
Median Width		Median	Median Height				
Curb Height		Left		Right			
Sidewalk Width	Left		Right				
Clear Roadway (Rail to Median)		Left		Right			
Guardrail Width	Guardrail Width			Right	15in		
Top of Rail to Deck/Wearing Surfa	Left	2.667ft	Right	2.667ft			
Bridge Rail Type	Left	Type 4	Right	Type 4			

Measurements for Span #	1		
Deck Thickness	8.00in	Left Overhang	2.25ft
Top of Rail to Bottom of Beam (Avg)	6.500ft	Right Overhang	2.25ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Prestressed Concrete Girder	18in	36in	2.25ft	Left Edge of Deck
2	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 1
3	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 2
4	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 3
5	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 4
6	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 5
7	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 6
8	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 7

NOTE: MEASUREMENT TAKEN AT NEAR END OF SPAN. SPAN 1 IS FLARED AND NARROWS AT FAR END

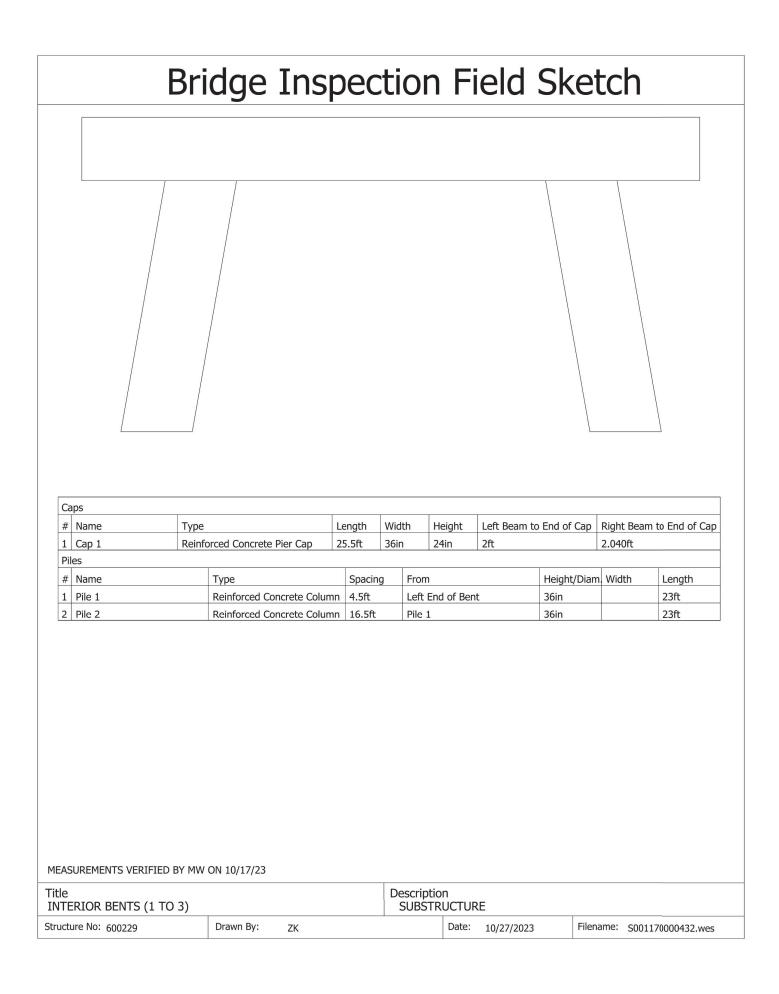


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MEASUREMENTS VERIFIED BY MW ON 10/17/23

Title TYPICAL SECTION (SPAN 1)					Description SUPERSTRUCTURE					
Structure No: 600229	Drawn By:	ZK		Date:	10/27/2023	Filename:	S001170000430.wes			

	Deck Width/Out to Out	26.5ft	Betwee	n Rails			24.667ft		
	Clear Roadway	20.5m		g Surface			21100/10		
	Median Width	2.110	Median						
	Curb Height	1	Left		Rig	ht			
	Sidewalk Width		Left		Rig				
	Clear Roadway (Rail to Median	1)	Left		Rig				
	Guardrail Width	/	Left	15in		ht 15in			
	Top of Rail to Deck/Wearing S	urface	Left	2.667ft	Rig				
	Bridge Rail Type		Left	Type 4	Rig		e 4		
	Measurements for Span # Deck Thickness	2 to 5 8.00in	Left C	Verhang			2.25ft		
	Top of Rail to Bottom of Beam (Avg) 7.250ft	Right	Overhang			2.25ft		
Bear	n # Beam Type		Width	Height	Spacing		From		
1	Prestressed Concrete Girder		22in	45in	2.25ft	Left Edg	ge of Deck		
2	Prestressed Concrete Girder		22in	45in	7.33ft	Beam 1			
3	Prestressed Concrete Girder		22in	45in	7.33ft	Beam 2			
4	Prestressed Concrete Girder		22in	45in	7.33ft	Beam 3			
							1 2 3 4 5 6	16in 22in 7in 4.5in 19in 7in	
SUREMENTS VERIFI	ED BY MW ON 10/17/23		Descrip		2		7 8	7.5in 7in	



Bridge Inspection Field Sketch

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		PILES ARE DOUBLED (A-FRAME)	

Ca	Caps											
#	Name	Туре	Туре Le		Length Width Height		Height	Left Beam to End of Cap		Right Beam to End of Cap		
1	Cap 1	Reinfo	orced Concrete Pier Cap	26	5.2ft	44in	1	33in	2ft		1.970ft	
Pi	Piles											
#	Name		Туре		Spacing	3	From			Height/Diam	Width	Length
1	Row 2 Pile 1		Steel Pile		1.5ft		Left I	End of Ben	t	12.65in		10ft
1	Row 1 Pile 1		Steel Pile		1.5ft		Left I	End of Ben	t	12.65in		10ft
2	Row 2 Pile 2		Steel Pile		8.167ft		Row	2 Pile 1		12.65in		10ft
2	Row 1 Pile 2		Steel Pile		8.167ft		Row	1 Pile 1		12.65in		10ft
3	Row 2 Pile 3		Steel Pile		7.417ft		Row	2 Pile 2		12.65in		10ft
3	Row 1 Pile 3		Steel Pile		7.417ft		Row	1 Pile 2		12.65in		10ft
4	Row 2 Pile 4		Steel Pile		7.583ft		Row	2 Pile 3		12.65in		10ft
4	Row 1 Pile 4		Steel Pile		7.583ft		Row	1 Pile 3		12.65in		10ft

MEASUREMENTS VERIFIED BY MW ON 10/17/23

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Title INTERIOR BENT 4					Description SUBSTRUCTURE					
Structure No: 600229	Drawn By:	ZK		Date:	10/27/2023	Filename:	S001170000433.wes			

County: MITCHELL

Date: 10/17/2023

Structure Photos



LOOKING SOUTH



LOOKING NORTH

NORTH APPROACH



WEST PROFILE



LOOKING UPSTREAM (EAST) FROM TOP OF BRIDGE





SOUTH APPROACH

Structure: 600229

6 - A 18 19

County: MITCHELL

Date: 10/17/2023

Structure Photos

County: MITCHELL

Date: 10/17/2023

Structure Photos



LOOKING DOWNSTREAM (WEST) FROM TOP OF BRIDGE



EAST PROFILE

Structure Photos



TRAFFIC SETUP



HYDRAPLATFORM USED

Date: 10/17/2023

Structure Photos



BENT 2 PROFILE



TYPICAL INTERMEDIATE DIAPHRAGM

Date: 10/17/2023

Structure Photos



BENT 1 PROFILE



TYPICAL END DIAPHRAGM

County: MITCHELL

Date: 10/17/2023

Structure Photos



TYPICAL BEAM OVER CAP



LOOKING UPSTREAM (EAST) FROM UNDER BRIDGE

County: MITCHELL

Date: 10/17/2023

Structure Photos



BENT 3 PROFILE



LOOKING DOWNSTREAM (WEST) FROM UNDER BRIDGE

Date: 10/17/2023

Structure Photos



TYPICAL BEARING (BENT 3 BEAM 3 IN VIEW)



BENT 4 PROFILE

County: MITCHELL

Date: 10/17/2023

Structure Photos



END BENT 2 PROFILE AND SLOPE PROTECTION



NORTWEST WINGWALL

County: MITCHELL

Date: 10/17/2023

Structure Photos



SOUTHEAST END TERMINAL



TYPICAL POST SPACING

County: MITCHELL

Date: 10/17/2023

Structure Photos



TYPICAL GUARDRAIL TO BRIDGE RAIL CONNECTION



BRIDGE IDENTENTIFICATION NUMBER

EN DBENT 1 SLOPE PROTECTION





END BENT 1 PROFILE

Structure: 600229 County: MITCHELL

Date: 10/17/2023

Structure Photos

County: MITCHELL

Date: 10/17/2023

Structure Photos



JOINT OVER BENT 1

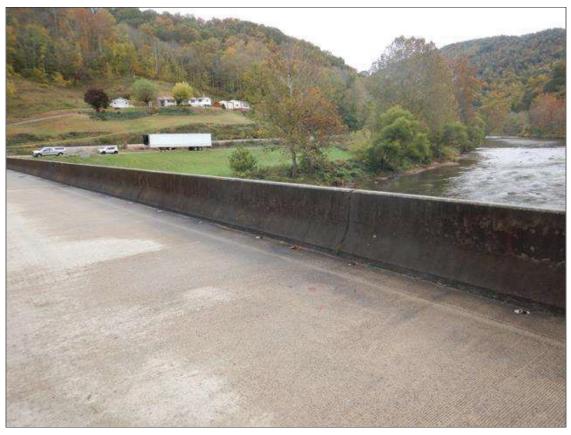


LEFT BRIDGE RAIL

County: MITCHELL

Date: 10/17/2023

Structure Photos



RIGHT BRIDGE RAIL



TYPICAL TOP OF DECK SURFACE

Date: 10/17/2023

Structure Photos



JOINT OVER BENT 2



JOINT OVER BENT 3

County: MITCHELL

Date: 10/17/2023

Structure Photos



JOINT OVER BENT 4



JOINT OVER OVER END BENT 2

Date: 10/17/2023

Structure Photos



SOUTHWEST DELINEATOR



SUPERSTRUCTURE AT SPAN 1

Date: 10/17/2023

Structure Photos



TYPICAL SUPERSTRUCTURE AT SPANS 2 TO 5 (SPAN 5 IN VIEW)