ATTENTION: PARS ISSUED FOR SCOURING AND SPALLS.

Structure Safety Report

2 Year Complete Topside and Underwater Element Inspection

INSPECTION DATE: 01/03/2022

DIVISION: 6	COUNTY: COLUMB	US	STRUC [*]	TURE NUMBER: 230372	2 F	REQUENCY:	24 MONT	ГНЅ
FACILITY CARRIED): NC87				MILE PO	ST:		
LOCATION: 0.1 MI	. S. JCT. NC11							
FEATURE INTERSE	ECTED: WEYMAN CR	EEK						
LATITUDE: 34° 22	2' 25.58"	LONG	SITUDE:	78° 16' 22.94"				
SUPERSTRUCTURI	E: TRIPLE 8'X14' RC	CBC; 76'ALONG C	ENTER	LINE OF CULVERT				
SUBSTRUCTURE:								
SPANS: 3 BARR	RELS. SEE CULVERT	SKETCH FOR DE	ETAILS.					
FRACTURE CF	RITICAL TEMPO	ORARY SHORING	3 🗌	SCOUR CRITICAL	□sco	UR PLAN OF	ACTION	
GRADES: (Inspecto	or/NBI Coding) DECK 1	N/N SUPERST	TRUCTU	RE N/N SUBSTF	RUCTURE 1	N/N CUL	VERT <u>4/4</u>	1
POSTED SV: Not	Posted			POSTED TTST: Not F	Posted			
OTHER SIGNS PRE	SENT: 2 DELINEAT	ORS						
		le c		SIL	Sign no	nticed I for		Number Required
	AND THE RESERVE		-5		NO	WEIGI	HT LIMIT	0
1511			2		NO	DELIN	EATORS	0
					NO	NARROV	W BRIDGE	0
					NO	ONE LAN	IE BRIDGE	0
		/	4		NO	LOW CLI	EARANCE	0
		/						
						RECTION OF NSPECTION	S-N	
						DIRECTION TCHES PLANS	3	
NORTH								
INSPECTED BY PATRICK G. RUTHE	ERFORD	SIGNATURE		EN X Any	ASSISTE		IATTHAIE, J ,JASPER BE	

(1) STATE NAME NORTH CAROLINA BRIDGE		230372	SUFFICIENCY RATING			67.70
(8) STRUCTURE NUMBER (FEDERAL)		470372	STATUS =		Structurally	Deficient
(5) INVENTORY ROUTE (ON/UNDER) ON	131	000870		CLASSIFICATION		CODE
(2) STATE HIGHWAY DEPARTMENT DISTRICT		6	(112) NBIS BRIDGE SYSTEM			YE
(3) COUNTY CODE (FEDERAL) 47 (4) PLACE CODE (6) FEATURE INTERSECTED WEYMAN CREEK		00000	(104) HIGHWAY SYSTEM	Inventory Ro	oute is on NHS	
(6) FEATURE INTERSECTED WEYMAN CREEK (7) FACILITY CARRIED NC87			(26) FUNCTIONAL CLASS	Rural	Minor Arterial	0
(9) LOCATION 0.1 MI. S. JCT. NC11			(100) STRAHNET HIGHWAY	STRAHN	IET Connector	
(11) MILEPOINT		0.0	(101) PARALLEL STRUCTURE	No parallel s	tructure exists	ı
(12) BASE HIGHWAY NETWORK		1	(102) DIRECTION OF TRAFFIC	•	2-way traffic	
(13) LRS INVENTORY ROUTE & SUBROUTE	700 40 0	30087	(103) TEMPORARY STRUCTUR	RF	,	
(16) LATITUDE 34° 22' 25.58" (17) LONGITUDE (98) BORDER BRIDGE STATE CODE PERCENT SHA	78° 16'	22.94"	(110) DESIGNATED NATIONAL		ork for trucks	
(99) BORDER BRIDGE STRUCTURE NUMBER	ANLD		(20) TOLL		On Free Road	
					Oli Free Road	
STRUCTURE TYPE AND MATERIAL —			(21) MAINT -			0
	crete Cont		(22) OWNER -			0
TYPE Culvert	CODE	219	(37) HISTORICAL SIGNIFICANO	CE -		
(44) STRUCTURE TYPE APPROACH				CONDITION		CODE
TYPE	CODE		(58) DECK			1
(45) NUMBER OF SPANS IN MAIN UNIT		3	(59) SUPERSTRUCTURE			ı
(46) NUMBER OF SPANS IN APPROACH		0	(60) SUBSTRUCTURE			1
(107) DECK STRUCTURE TYPE	CODE	N	(61) CHANNEL & CHANNEL PR	OTECTION		
(108)WEARING SURFACE/PROTECTIVE SYSTEM			(62) CULVERTS			
(A) TYPE OF WEARING SURFACE	CODE	N	LOAD	RATING AND POSTING		CODE
(B) TYPE OF MEMBRANE	CODE	N	(31) DESIGN LOAD		H 20 + Mod	
(C) TYPE OF DECK PROTECTION	CODE	N	(63) OPERATING RATING MET	HOD -		
AGE AND SERVICE			(64) OPERATING RATING -		HS-26	4
(27) YEAR BUILT		1965	(65) INVENTORY RATING MET	HOD -		
(106) YEAR RECONSTRUCTED		0	(66) INVENTORY RATING		HS-20	3
(42) TYPE OF SERVICE ON -	Н	ighway	(70) BRIDGE POSTING	No Pos	sting Required	
OFF - Waterway	CODE	15	(41) STRUCTURE OPEN, POST	ED, OR CLOSED		,
(28) LANES ON STRUCTURE 2 LANES UNDER STRUCT	TURE	0	DESCRIPTION		no restriction	
(29) AVERAGE DAILY TRAFFIC		7500		APPRAISAL		CODE
(30) YEAR OF ADT 2018 (109) TRUCK ADT PCT		8	(67) STRUCTURAL EVALUATION			OODL
(19) BYPASS OR DETOUR LENGTH		4.0	(68) DECK GEOMETRY			1
GEOMETRIC DATA —			(69) UNDERCLEARANCES, VE	RT & HORIZ		ı
(48) LENGTH OF MAXIMUM SPAN		8.0	(71) WATERWAY ADEQUACY			
(49) STRUCTURE LENGTH		26.0	(72) APPROACH ROADWAY AL	ICNMENT		
(50) CURB OR SIDEWALK: LEFT 0.0 RIGHT		0.0				
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB		0.0	(36) TRAFFIC SAFETY FEATUR			INNN
(52) DECK WIDTH OUT TO OUT		0.0	(113) SCOUR CRITICAL BRIDG			
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CC	ODE	32.0 0		OSED IMPROVEMENTS	CODE	
(34) SKEW 0 (35) STRUCTURE FLARED	<i>55</i> 2	0	(75) TYPE OF WORK	IMPROVEMENT	CODE	=
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9	(76) LENGTH OF STRUCTURE			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		32.2	(94) BRIDGE IMPROVEMENT C			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9	(95) ROADWAY IMPROVEMEN	T COST		
(54) MIN VERT UNDERCLEAR: REFERENCE (55) MIN LAT UNDERCLEARANCE RT: REFERENCE N		0.0	(96) TOTAL PROJECT COST			
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE N (56) MIN LAT UNDERCLEARANCE LT:		0.0 0.0	(97) YEAR OF IMPROVEMENT	COST ESTIMATE		
(,		0.0	(114) FUTURE ADT	15,000 YEAR OF FUTUR	RE ADT	204
———— NAVIGATION DATA —————	0075	-	(00) INIOPECTION 5 :	INSPECTION	- FDFC::-::	
	CODE	0	(90) INSPECTION DATE		FREQUENCY	24
			(92) CRITICAL FEATURE INSPE	CHON	(93) CFI DAT	E
	CODE					
	CODE	0.0	A) FRACTURE CRIT DETA			
(111) PIER PROTECTION	CODE	0.0		AIL A) 60 B)		01/22
(111) PIER PROTECTION (39) NAVIGATION VERTICAL CLEARANCE	CODE		A) FRACTURE CRIT DETA	60 B)		01/22

Superstructure Build Details

Span Number 1

Span Length 8.0000

Skew 90.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Box Culvert	Reinforced Concrete Culvert	76	Feet		

Span Number 2

Span Length 8.0000

Skew 90.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Box Culvert	Reinforced Concrete Culvert	77	Feet		

Span Number 3

Span Length <u>8.0000</u>

Skew 90.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Box Culvert	Reinforced Concrete Culvert	76	Feet		

Structure Element Scoring

Structure Number: 230372 Inspection Date 1/3/2022

- 1	Element Number	Parent Number		Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
	241	0	Reinforced Concrete Culvert	Culverts and Pipes	229	О	193	36	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 230372 Inspection Date: 01/03/2022

MMS Code	Element Name	Defect Name	Recommended Quantity
3370	Reinforced Concrete Culvert	Scour	5 Feet
3370	Reinforced Concrete Culvert	Delamination/Spall	16 Feet
3370	Reinforced Concrete Culvert	Exposed Rebar	13 Feet

Element Structure Maintenance Quantities

Structure Number: 230372 Inspection Date 01/03/2022

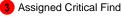
Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Culverts and Pipes	3370	Maintenance of NBI Culverts and Pipes	34	229	0	36	193	0

Priority Actions Request

Structure Num	nber <u>230372</u>							
Span1								
3370	Culvert Section 1	Reinforced Co	ncrete Box Culvert					
Priority Level	Defect Type	Quantity	Defect Description					
2	Delamination/Spall	5	Span 1 Culvert Section 1: 5 AREAS OF SPALLS- 6' LONG X 8" WIDE X 1" DEEP (PAR)					
2	Scour	1	Span 1 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 2.2' VERT (PAR)					
Span2								
3370	Culvert Section 1	Reinforced Co	ncrete Box Culvert					
Priority Level	Defect Type	Quantity	Defect Description					
2	Exposed Rebar	6	Span 2 Culvert Section 1: REBAR EXPOSED, SECTION LOSS DUE TO SPALLS					
2	Scour	2	ON INTERIOR WALL 2, 15' FROM EAST END. (PAR) Span 2 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 2.7' WITH 0.5' VERT. BELOW CURTAINWALL WITH PROBE TO 0.5'. DOWNSTREAM CURTAIN WALL EXPOSURE 1.1' VERT. (PAR)					
Span3								
3370	Culvert Section 1	Reinforced Co	ncrete Box Culvert					
Priority Level	Defect Type	Quantity	Defect Description					
2	Exposed Rebar	2	Span 3 Culvert Section 1: REBAR EXPOSED, SECTION LOSS DUE TO SPALLS ON TOP SLAB. (PAR)					
2	Scour	2	Span 3 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 3.0' VERT. WITH 0.5' VERT. BELOW CURTAINWALL X 0.5' PROBE. (PAR)					
Wingwalls								
3350	Wingwalls	Wingwalls						
Priority Level	Defect Type	Quantity	Defect Description					
2		60	SCOURING ON THE SW WING, 2'V AT THE C/L.(PAR) NW WING, 2.3'V AT THE C/L (PAR) NE WING, 2'V AT THE C/L (PAR) SE WING, 0.8' AT THE C/L (PAR)					







Element Condition and Maintenance Data

Structure Number: 230372 Inspection Date: 01/03/2022

Otractare	14d11bc1. <u>230372</u>					1110	specifion D	atc. <u>01/03/2022</u>
Spa	an 1	Culvert Sec	tion 1					
Rei	inforced Concrete	Box Culvert						
	ement mber Reinford	Element Name ced Concrete Culvert	Total Qty 76	CS1 Qty 0	CS2 Qty 63	CS3 Qty 13	CS4 Qty 0 F	eet
Eleme Numbe	Dofoot Tuno	Defect Descr	ription		CS	CS Qty	Maint Qty	
241	Delamination/Spall	5 AREAS OF SPALLS- 6' LONG X	8" WIDE X 1" DEEI	P (PAR)	3	5	5	Feet
241	Efflorescence/Rust Staining	CONSTRUCTION JOINTS OPEN T EFFLORESCENCE/WATER LEAK SIMILIAR)	,	.S	3	2		Feet
241	Exposed Rebar	REBAR EXPOSED, SECTION LOS	SS DUE TO SPALLS	8	3	5	5	Feet
241	Scour	UPSTREAM CURTAIN WALL EXP	OSURE 2.2' VERT ((PAR)	3	1	1	Feet
241	Abrasion/Wear (PSC/RC)	COARSE AGGREGATE EXPOSE	D TO1/4"		2	63		Feet
	General Comments							

Spa	ın 2	Culvert Section	on 1					
Reir	nforced Concrete	Box Culvert						
	ment nber Reinforc	Element Name ed Concrete Culvert	Total Qty 77	CS1 Qty 0	CS2 Qty 60	CS3 Qty 17	CS4 Qty 0 Feet	
Elemen Numbe	Dofoot Typo	Defect Type Defect Description					Maint Qty	
241	Delamination/Spall	TOP SLAB SPALLS NEAR C/L- 9' LC DEEP. SPALL ON INTERIOR WALL 1		3	9	9 Feet		
241	Exposed Rebar	,	REBAR EXPOSED, SECTION LOSS DUE TO SPALLS ON NTERIOR WALL 2, 15' FROM EAST END. (PAR)			6	6 Feet	
241	Scour	UPSTREAM CURTAIN WALL EXPOS VERT. BELOW CURTAINWALL WITH DOWNSTREAM CURTAIN WALL EXI (PAR)	i'.	3	2	2 Feet		
241	Abrasion/Wear (PSC/RC)	COARSE AGGREGATE EXPOSED TO	O 1/4"		2	58	Feet	
241	Efflorescence/Rust Staining General Comments	CONSTRUCTION JOINTS OPEN TO EFFLORESCENCE/WATER LEAKAGE			2	2	Feet	

Spa	n 3	Culvert Section	n 1						
Reinforced Concrete Box Culvert									
	ment nber Reinforc	Element Name ed Concrete Culvert	Total Qty 76	CS1 Qty 0	CS2 Qty 70	CS3 Qty 6	CS4 Qty 0 Feet		
Elemen Numbe	Dofoot Typo	Defect Description	on		cs	CS Qty	Maint Qty		
241	Delamination/Spall	SPALLS IN TOP SLAB AN DEXTERIO 6" WIDE X 1" DEEP. +/- 15' FROM WE	,	LONG X	3	2	2 Feet		
241	Exposed Rebar	REBAR EXPOSED, SECTION LOSS D TOP SLAB. (PAR)	UE TO SPALLS	S ON	3	2	2 Feet		
241	Scour	UPSTREAM CURTAIN WALL EXPOSU 0.5' VERT. BELOW CURTAINWALL X			3	2	2 Feet		
241	Abrasion/Wear (PSC/RC)	COARSE AGGREGATE EXPOSED TO) 1/4"		2	68	Feet		
241	Efflorescence/Rust Staining	CONSTRUCTION JOINTS OPEN TO 1 EFFLORESCENCE/WATER LEAKAGE	-		2	2	Feet		

Structure Number: 230372 Inspection Date: 01/03/2022

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Culvert Section 1	Reinforced Concrete Box Culvert	Reinforced Concrete Culvert	76
Span 2	Culvert Section 1	Reinforced Concrete Box Culvert	Reinforced Concrete Culvert	77
Span 3	Culvert Section 1	Reinforced Concrete Box Culvert	Reinforced Concrete Culvert	76

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 230372 Inspection Date: 01/03/2022

National Bridge Inventory Items

			
Item	Grade Scale	Grade	
Item 58: Deck	0 - 9 , N	N	Note:
Item 59: Superstructure	0 - 9 , N	N	Items 58,59,60,62 reflect this inspection only.
Item 60: Substructure	0 - 9 , N	N	For overall NBI coding grade,
Item 61: Channel and Channel Protection	0 - 9 , N	4	see cover sheet.
Item 62: Culvert	0 - 9 , N	4	
Item 71: Waterway Adequacy	0 - 9 , N	7	
Item 72: Approach Roadway Alignment	0 - 9 , N	8	

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Headwall	G, F, P, or C	F	5	4675
Wingwall	G, F, P, or C	F	120	3350
Scour	G, F, P, or C	Р		
Drift	G, F, P, or C	F	50	3366
Estimated Remaining Life	G, F, P, or C			

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	4
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	Υ
Portion of Structure in > 3' of water	YES/NO	Υ

National Bridge and NC SMU Inspection Item Details

Structure Number: 230372 Inspection Date: 01/03/2022

e munn	Jel. 230372				mspecin	Jii Date. 01/0
Item	Priority Maintenance Issued	Grade	Υ	Maint Code	Qty.	0
Details	PARS ISSUED FOR SCOURING AND SPALLS.					
Item	Other Equipment Used	Grade	Υ	Maint Code	Qty.	0
Details	DRYSUIT, LIGHT, AGA, OTS, SCUBA SDM, 10.4', 30 MINUTES					
Item	Drift	Grade	F	Maint Code 3366	Qty.	50
Details	RANDOM LOGS AND BRANCHES ALONG THE M/L U	JP TO 5' A	.W/L. UP T	O 4" DIAMETER.		
Item	Scour	Grade	Р	Maint Code	Qty.	0
Details	SCOUR AT THE UP/DOWN STREAM ENDS OF THE (FOR DETAILS)	CULVERT.	(SEE ELE	MENT DEFECTS A	ND SCOU	R SKETCH
	FOOTING EXPOSURES AT ALL WINGS: SW WING- 2'V EXPOSURE AT THE C/L					
	NW WING- 2.3'V EXPOSURE AT THE C/L					
	SE WING- 0.8'V EXPOSURE AT THE C/L NE WING- 2'V EXPOSURE AT THE C/L					
Item	Headwalls	Grade	F	Maint Code 4675	Qty.	5
Details	MOWER DAMAGE AT THE NE CORNER RANDOM CHIPS ALONG THE EDGES					
Item	Wingwalls	Grade	F	Maint Code 3350	Qty.	120
Details	COARSE AGGREGATE EXPOSED TO 1/4" ON ALL W	INGS				
	SCOURING ON THE SW WING, 2'V AT THE C/L.(PAR (PAR) SE WING, 0.8' AT THE C/L (PAR)) NW WIN	G, 2.3'V A	Γ THE C/L (PAR) NE	WING, 2"	V AT THE C/L
Item	General Comments and Misc Items	Grade	F	Maint Code	Qty.	0
Details	CRACKING IN AWS UP TO 1/8"					
Item	Portion of structure in > 3' of water (Y or N)	Grade	Υ	Maint Code	Qty.	0
_						

Details MAX. DEPTH- 10.4'



CRACKING IN AWS UP TO 1/8"



BARREL 2- DRIFT



SCOUR AT SW WING (PAR)



Span 1 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 2.2' VERT (PAR)



Span 2 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 2.7' WITH 0.5' VERT. BELOW CURTAINWALL WITH PROBE TO 0.5'. DOWNSTREAM CURTAIN WALL EXPOSURE 1.1' VERT. (PAR)



Span 3 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 3.0' VERT. WITH 0.5' VERT. BELOW CURTAINWALL X 0.5' PROBE. (PAR)



NW WING SCOUR (PAR)



Span 1 Culvert Section 1: CONSTRUCTION JOINTS OPEN TO 1/16" WITH EFFLORESCENCE/WATER LEAKAGE (ALL BARRELS SIMILIAR)



Span 1 Culvert Section 1: 5 AREAS OF SPALLS- 6' LONG X 8" WIDE X 1" DEEP (PAR)



Span 2 Culvert Section 1: REBAR EXPOSED, SECTION LOSS DUE TO SPALLS ON INTERIOR WALL 2, 15' FROM EAST END. (PAR)



Span 2 Culvert Section 1: TOP SLAB SPALLS NEAR C/L- 9' LONG X 8" WIDE X 1" DEEP. SPALL ON INTERIOR WALL 1, 20' FROM WEST END.



Span 2 Culvert Section 1: TOP SLAB SPALLS NEAR C/L- 9' LONG X 8" WIDE X 1" DEEP. SPALL ON INTERIOR WALL 1, 20' FROM WEST END.



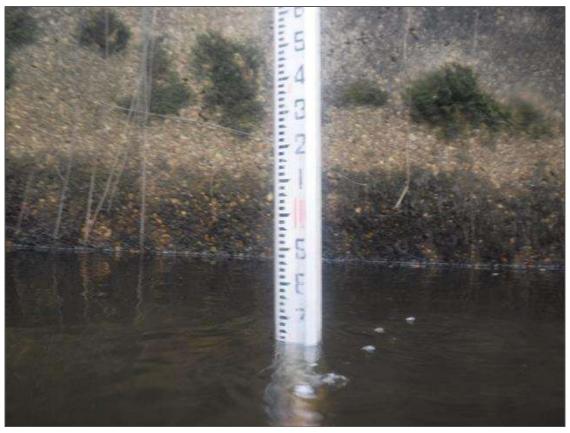
Span 2 Culvert Section 1: TOP SLAB SPALLS NEAR C/L- 9' LONG X 8" WIDE X 1" DEEP. SPALL ON INTERIOR WALL 1, 20' FROM WEST END.



Span 3 Culvert Section 1: REBAR EXPOSED, SECTION LOSS DUE TO SPALLS ON TOP SLAB. (PAR)



NE WING, SCOUR (PAR)



SE WING, SCOUR (PAR)

Structure Number: 230372 Inspection Date 01/03/2022 Barrel Number 1 Length along centerline (ft) 76.333 Skew 90° Height Crown to Bed (ft) 24.0 Fill Depth (ft) 10.0 Barrel Height (ft) 14.0 Section 1 Details Barrel Width (ft) 8.0 Barrel Number 2 Skew 90° Length along centerline (ft) 76.333 Height Crown to Bed (ft) 24.0 Fill Depth (ft) 10.0 Section 1 Details Barrel Height (ft) 14.0 Barrel Width (ft) 8.0 Barrel Number 3

Height Crown to Bed (ft)

Barrel Width (ft)

Fill Depth (ft)

10.0

24.0

8.0

Skew

Section 1 Details

90°

Length along centerline (ft) 76.333

Barrel Height (ft) 14.0



SOUTH



WEST PROFILE



WEST



EAST



EAST PROFILE



NORTH



ROADWAY OVERVIEW



LOOKING UPSTREAM



LOOKING DOWNSTREAM

Bridge: 230372 County COLUMBUS Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3350	Maint R C Wings and Walls	SF	60	SCOURING ON THE SW WING, 2'V AT THE C/L.(PAR) NW WING, 2.3'V AT THE C/L (PAR) NE WING, 2'V AT THE C/L (PAR) SE WING, 0.8' AT THE C/L (PAR)	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	1	Span 1 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 2.2' VERT (PAR)	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	5	Span 1 Culvert Section 1: 5 AREAS OF SPALLS- 6' LONG X 8" WIDE X 1" DEEP (PAR)	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	2	Span 2 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 2.7' WITH 0.5' VERT. BELOW CURTAINWALL WITH PROBE TO 0.5'. DOWNSTREAM CURTAIN WALL EXPOSURE 1.1' VERT. (PAR)	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	6	Span 2 Culvert Section 1: REBAR EXPOSED, SECTION LOSS DUE TO SPALLS ON INTERIOR WALL 2, 15' FROM EAST END. (PAR)	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	2	Span 3 Culvert Section 1: UPSTREAM CURTAIN WALL EXPOSURE 3.0' VERT. WITH 0.5' VERT. BELOW CURTAINWALL X 0.5' PROBE. (PAR)	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	2	Span 3 Culvert Section 1: REBAR EXPOSED, SECTION LOSS DUE TO SPALLS ON TOP SLAB. (PAR)	



Bridge: 230372 County COLUMBUS

MMS Code	MMS Des	MMS Description					
3350	Maint R C	int R C Wings and Walls 60 SF					
Location:							
		Bent/Spa	an No.				
Priority Leve	I	Status	Status				
Priority Main	tenance	Division Bridge	Division Bridge Maintenance Notification Received				
Submitted D	ate: Subn	itted By:		Assisted By:			
01/03/2022	JOH	N RORES					
Details							
		/ WING, 2'V AT THI ' AT THE C/L (PAR		/ING, 2.3'V AT THE C/L (PAR) NE W	/ING, 2'V A	T THE	

MMS Code	MN	//S Descrip	Description Quantity			
3370	Mai	ntenance a	and Repair of NBIS Pipes and Culv	erts	1	LF
Location:						
			Bent/Span No.			
Priority Leve	el		Status			
Priority Main	ntenan	ice	Division Bridge Maintenance Notification Received			
Submitted D	ate:	Submitte	d By:	Assisted By:		
01/03/2022		JOHN F	RORES			
Details						
Span 1 Culv	ert Se	ection 1: Ul	PSTREAM CURTAIN WALL EXPO	SURE 2.2' VERT (PAR)		

Bridge: 230372 County COLUMBUS

MMS Code	MMS Description			Quantity		
3370	Maintenance	and Repair of NBIS Pipes and Culv	rerts	5	LF	
Location:						
		Bent/Span No.				
Priority Level		Status				
Priority Maint	enance	Division Bridge Maintenance Notification Received				
Submitted Da	ate: Submitte	ed By:	Assisted By:			
01/03/2022	JOHN F	RORES				
Details						
Span 1 Culve	ert Section 1: 5	AREAS OF SPALLS- 6' LONG X 8	" WIDE X 1" DEEP (PAR)			

MMS Code	MMS Descri	MMS Description Quantity			
3370	Maintenance	and Repair of NBIS Pipes and Culv	verts	2	LF
Location:					
		Bent/Span No.			
Priority Level		Status	Status		
Priority Mainte	enance	Division Bridge Maintenance Notification Received			
Submitted Da	te: Submitte	ed By:	Assisted By:		
01/03/2022	JOHN I	RORES			
Details					
		IPSTREAM CURTAIN WALL EXPO WNSTREAM CURTAIN WALL EXP	OSURE 2.7' WITH 0.5' VERT. BELOV OSURE 1.1' VERT. (PAR)	V CURTAINV	NALL

Bridge: 230372 County COLUMBUS

MMS Code	MMS Descri	otion	ion Quantity			
3370	Maintenance	and Repair of NBIS Pipes and Culv	erts	6	LF	
Location:						
		Bent/Span No.				
Priority Level		Status				
Priority Maint	tenance	Division Bridge Maintenance Notification Received				
Submitted Da	ate: Submitte	ed By:	Assisted By:			
01/03/2022	JOHN F	RORES				
Details						
Span 2 Culve EAST END. (EBAR EXPOSED, SECTION LOSS	DUE TO SPALLS ON INTERIOR W	VALL 2, 15' F	FROM	

MMS Code	MM	IS Descrip	cription Quantity			
3370	Main	ntenance a	and Repair of NBIS Pipes and Culv	erts	2	LF
Location:						
			Bent/Span No.			
Priority Level	l		Status			
Priority Maint	tenand	ce	Division Bridge Maintenance Notification Received			
Submitted Da	ate:	Submitte	d By:	Assisted By:		
01/03/2022		JOHN R	ORES			
Details						
Span 3 Culve CURTAINWA				SURE 3.0' VERT. WITH 0.5' VERT.	BELOW	

Bridge: 230372 County COLUMBUS

MMS Code	MM	MMS Description Quantity				
3370	Main	Maintenance and Repair of NBIS Pipes and Culverts 2				
Location:						
			Bent/Span No.			
Priority Level Status						
Priority Maintenance Division Bridge Maintenance Notification Received						
Submitted D	ate:	Submitte	d By:	Assisted By:		
01/03/2022		JOHN R	RORES			
Details						
Span 3 Culv	Span 3 Culvert Section 1: REBAR EXPOSED, SECTION LOSS DUE TO SPALLS ON TOP SLAB. (PAR)					

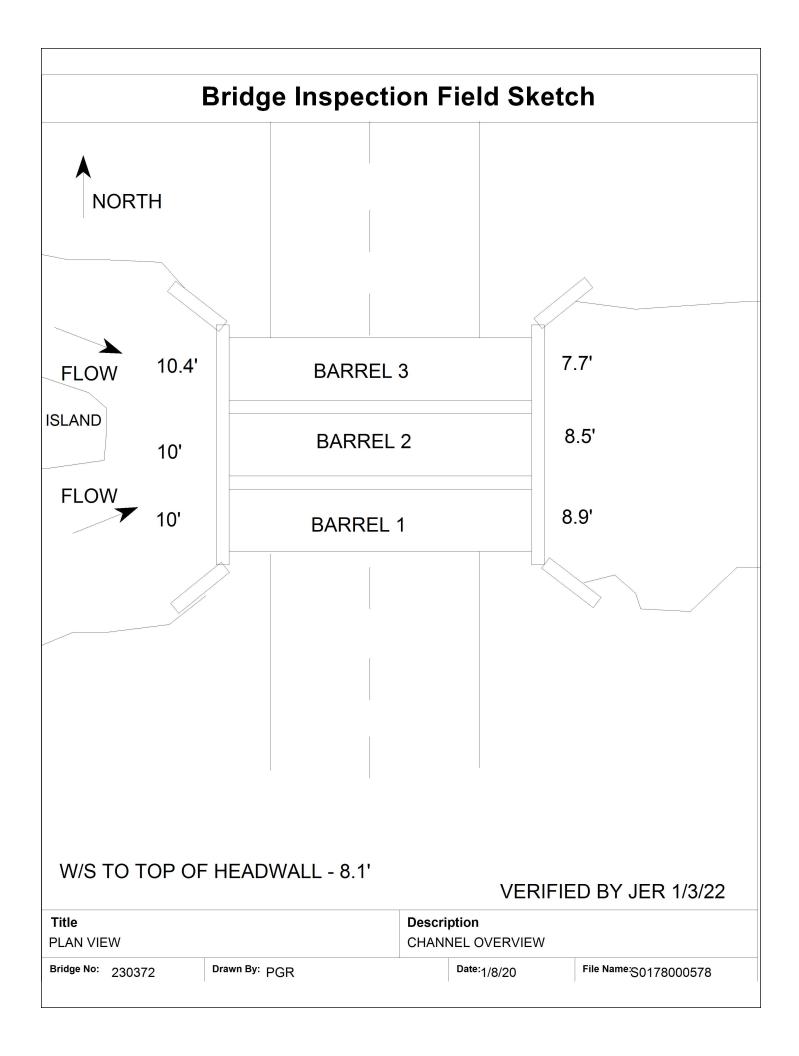
Culvert Segment Details

Has Bands?: No Distance From Upstream End to Edge of Pavement: 22ft Barrel 1 # of Long. Bolt Rows Transverse Spacing b/w Bolt Rows (ft) Corrugation Pattern Pipe Thickness (in) Distance From Upstream End of Segment (ft) Longitudinal Bolt Spacing (ft) Bolt Diameter (in) Rib Spacing (ft) Top Radius (ft) Leg Length (ft) Rib Length (ft) **Bolt Condition Bolt Material** Width (ft) Height (ft) Material Upstream 0 14 **RCBC** Concrete . End 76 8 **RCBC** Downstream 14 Concrete End

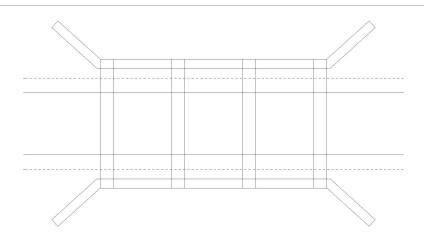
Barrel 2			Has	Bands	?: No		Dista	ance Fr	om Ups	strea	m End to	o Edge o	of Pave	ement:	22ft		
	Distance From Upstream End of Segment (ft)	Width (ft)	Height (ft)	Pipe Thickness (in)	Corrugation Pattern	Leg Length (ft)	Top Radius (ft)	Bolt Material	Bolt Diameter (in)	# of Long. Bolt Rows	Transverse Spacing b/w Bolt Rows (ft)	Longitudinal Bolt Spacing (ft)	Bolt Condition	Rib Length (ft)	Rib Spacing (ft)	Туре	Material
Upstream End	0	8	14													RCBC	Concrete
Downstream End	76	8	14													RCBC	Concrete

Culvert Segment Details

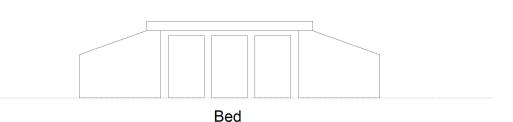
Barrel 3			Has	Bands	?: No		Dista	ance Fr	om Up	strea	m End t	o Edge o	of Pave	ement:	22ft		
	Distance From Upstream End of Segment (ft)	Width (ft)	Height (ft)	Pipe Thickness (in)	Corrugation Pattern	Leg Length (ft)	Top Radius (ft)	Bolt Material	Bolt Diameter (in)	# of Long. Bolt Rows	Transverse Spacing b/w Bolt Rows (ft)	Longitudinal Bolt Spacing (ft)	Bolt Condition	Rib Length (ft)	Rib Spacing (ft)	Туре	Material
Upstream End	0	8	14													RCBC	Concrete
Downstream End	76	8	14													RCBC	Concrete



Bridge Inspection Field Sketch



Crown of Roadway



Looking Downstream

Number of Barrels	Skew	Distance From Crown to Bed	Fill Depth	
3	90°	24ft	10ft	
Length Along Center Line of Cul	vert	Length Along Center Line of Roadway		
76ft		26ft		

Barrel #	Width	Height	Wall Thickness	Scour at Inlet	Scour at Outlet
1	8ft	14ft		2.2' C.W. EXPOSED	FILLED
2	8ft	14ft	1ft	2.7'V X 0.5' HORIZ	1.1' C/W EXP
3	8ft	14ft	1ft	3'V X 0.5' HORIZ	FILLED

EOP LEFT - 22'
EOP RIGHT - 22.8'
SL - 55MPH
NO GUARDRAILS

MAX. DEPTH 10.4'

VERIFIED BY JER 1/3/22

Title Description
CULVERT PROFILE END VIEW

Bridge Inspection Field Sketch

MEASUREMENTS TAKEN +/- 50' SOUTH

Roadway	24.2ft Wide	2 Unpaved Lanes	Looking North
Left Shoulder	8ft Wide	4ft Paved	4ft Unpaved
Right Shoulder	8ft Wide	4ft Paved	4ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED BY JER 1/3/22

Title		Descri	ption				
Approach Roadway			NC 87				
Bridge No: 230372	Drawn By: FCJ		Date: 03/19/2007	File Name: \$0254000189			

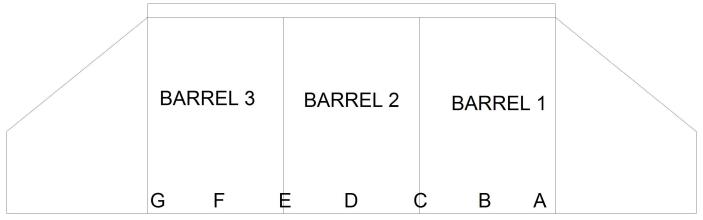
Bridge Inspection Field Sketch

MEASUREMENTS TAKEN TO TOP OF BOTTOM SLAB NORTH



(INLET, WEST SIDE)

UPDATED BY PGR 1/8/20



2018

ı	VERTICAL	HORIZONTAL
	1.6'	
	2.4'	
	2.0'	
	3.0'	1.0' PROBE X 1.5' WIDE

2.9' 1.0' PROBE X 1.5' WIDE 2.4' 2.3'

2020

STATION	VERTICAL	HORIZONTAL
Α	1.9'	
В	2.5'	
С	2.6'	
D	3.2'	0.5' probe
Е	3.0'	0.5' probe
F	3.0'	0.5' probe
G	3.0'	0.5' probe

2014

STSATTACTIO	NVERTICAL	HORIZONTAL
Α	2.2'	
В	2.3'	
С	1.8'	
D	2.4'	
E	3'	0.5' PROBE (1' WIDE)
F	2.3'	
G	2.6'	

2022

STATION	VERTICAL	HORIZONTAL
Α	1.8'	
В	2.2'	
С	2.6'	
D	2.7'	0.5' PROBE
Е	1.6'	0.5' PROBE
F	3'	0.5' PROBE
G	3'	0.5' PROBE

2016

STATION	VERTICAL	HORIZONTAL
Α	2.1'	
В	2.0'	
С	1.8'	
D	2.5'	
E	2.7'	0.5' PROBE (1' WIDE)
F	2.5'	
G	2.6'	

Title	Description
SCOUR DETAIL	SCOUR SKETCH