



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **NEWLY STRUCTURAL DEFICIENT; PAR:
 CORROSION; D-METER**

Structure Safety Report

Routine Element Inspection

STRUCTURE NUMBER: 560531 SAP STRUCTURE NO: 0570531 FHWA STRUCTURE NO: 000000001150531

DIVISION: 13 COUNTY: MADISON INSPECTION DATE: 05/10/2022 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1135 MILE POST: _____

LOCATION: .1 MI.S.JCT.US25,70

FEATURE INTERSECTED: WALNUT CREEK

LATITUDE: 35° 48' 45.91" LONGITUDE: 82° 42' 21.89"

SUPERSTRUCTURE: 3 LINES 120" CM PIPE;245' ALONG CENTERLINE PIPE

SUBSTRUCTURE: _____

SPANS: 3 BARRELS. SEE CULVERT SKETCH FOR DETAILS.

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK N/N SUPERSTRUCTURE N/N SUBSTRUCTURE N/N CULVERT 4/4

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

SOUTH APPROACH LOOKING NORTH

INSPECTED BY Joseph Huntsinger	SIGNATURE 	ASSISTED BY Dennis Wilson
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IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 560531
 (8) STRUCTURE NUMBER (FEDERAL) 1150531
 (5) INVENTORY ROUTE (ON/UNDER) ON 131011350
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 115 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED WALNUT CREEK
 (7) FACILITY CARRIED SR1135
 (9) LOCATION .1 M.I.S.JCT.US25,70
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 48' 45.91" (17) LONGITUDE 82° 42' 21.89"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 72.63
 STATUS = Structurally Deficient
 CLASSIFICATION CODE
 (112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Rural Local 09
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE No parallel structure exists N
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Culvert CODE 319
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 3
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE N
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE N
 (B) TYPE OF MEMBRANE CODE N
 (C) TYPE OF DECK PROTECTION CODE N

CONDITION CODE
 (58) DECK N
 (59) SUPERSTRUCTURE N
 (60) SUBSTRUCTURE N
 (61) CHANNEL & CHANNEL PROTECTION 5
 (62) CULVERTS 4

LOAD RATING AND POSTING

CODE
 (31) DESIGN LOAD H 20 + Mod 6
 (63) OPERATING RATING METHOD - .RFR - Load and Resistance Factor 3
 (64) OPERATING RATING - HS-55 99
 (65) INVENTORY RATING METHOD - 3
 (66) INVENTORY RATING HS-55 99
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1985
 (106) YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE ON - Highway
 OFF - Waterway CODE 15
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 0
 (29) AVERAGE DAILY TRAFFIC 840
 (30) YEAR OF ADT 2016 (109) TRUCK ADT PCT 6
 (19) BYPASS OR DETOUR LENGTH 4.0

APPRAISAL CODE
 (67) STRUCTURAL EVALUATION 4
 (68) DECK GEOMETRY N
 (69) UNDERCLEARANCES, VERT & HORIZ N
 (71) WATERWAY ADEQUACY 7
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 1NNN
 (113) SCOUR CRITICAL BRIDGES 8

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 10.0
 (49) STRUCTURE LENGTH 41.0
 (50) CURB OR SIDEWALK: LEFT 0.0 RIGHT 0.0
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 0.0
 (52) DECK WIDTH OUT TO OUT 0.0
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 22.0
 (33) BRIDGE MEDIAN No median CODE 0
 (34) SKEW 0 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 21.9
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE 0.0
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE N 0.0
 (56) MIN LAT UNDERCLEARANCE LT: 0.0

PROPOSED IMPROVEMENTS

CODE
 (75) TYPE OF WORK
 (76) LENGTH OF STRUCTURE IMPROVEMENT
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114) FUTURE ADT 1,680 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 0
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

INSPECTION

(90) INSPECTION DATE 05/22 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)

SCOUR

Superstructure Build Details

Span Number 1

Span Length 10.0000

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
12	Steel Round Structural Plate	Steel Culvert	245 Feet	Galvanized Protective System	7693

Span Number 2

Span Length 10.0000

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
12	Steel Round Structural Plate	Steel Culvert	245 Feet	Galvanized Protective System	7693

Span Number 3

Span Length 10.0000

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
12	Steel Round Structural Plate	Steel Culvert	245 Feet	Galvanized Protective System	7693

Structure Element Scoring

Structure Number: 560531

Inspection Date 5/10/2022

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
240	0	Steel Culvert	Culverts and Pipes	735	0	468	0	267
515	240	Steel Protective Coating	Culverts and Pipes	23079	18669	0	2790	1620

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 560531

Inspection Date: 05/10/2022

MMS Code	Element Name	Defect Name	Recommended Quantity
3370	Steel Culvert	Corrosion	270 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	4410 Square Feet

Element Structure Maintenance Quantities

Structure Number: 560531

Inspection Date 05/10/2022

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Culverts and Pipes	3342	Clean and Paint Steel	4410	23079	1620	2790	0	18669
Culverts and Pipes	3370	Maintenance of NBI Culverts and Pipes	270	735	267	0	468	0

Priority Actions Request

Structure Number 560531

Span1

3370	Culvert Section 1	Steel Round Structural Plate		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	25	Span 1 Culvert Section 1: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	
3370	Culvert Section 2	Steel Round Structural Plate		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	20	Span 1 Culvert Section 2: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	
3370	Culvert Section 3	Steel Round Structural Plate		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	20	Span 1 Culvert Section 3: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	
3370	Culvert Section 4	Steel Round Structural Plate		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	20	Span 1 Culvert Section 4: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	
3370	Culvert Section 5	Steel Round Structural Plate		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	20	Span 1 Culvert Section 5: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	
3370	Culvert Section 6	Steel Round Structural Plate		
Priority Level	Defect Type	Quantity	Defect Description	

Priority Actions Request

Structure Number 560531

② Corrosion 20 Span 1 Culvert Section 6: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)

3370 Culvert Section 7 Steel Round Structural Plate

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	20	Span 1 Culvert Section 7: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)

3370 Culvert Section 8 Steel Round Structural Plate

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	20	Span 1 Culvert Section 8: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)

3370 Culvert Section 9 Steel Round Structural Plate

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	20	Span 1 Culvert Section 9: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)

3370 Culvert Section 10 Steel Round Structural Plate

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	20	Span 1 Culvert Section 10: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)

3370 Culvert Section 11 Steel Round Structural Plate

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	20	Span 1 Culvert Section 11: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)

3370 Culvert Section Steel Round Structural Plate

Priority Actions Request

Structure Number 560531

12

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	20	Span 1 Culvert Section 12: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)

Span3

3370 Culvert Section 1 Steel Round Structural Plate

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	25	Span 3 Culvert Section 1: SEDIMENT AND ROCK WASHED OUT OF PIPE FOR 25' BEGINNING AT THE INLET. EXPOSED MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 6" DEEP. (PAR)

Element Condition and Maintenance Data

Structure Number: 560531

Inspection Date: 05/10/2022

Span 1 **Culvert Section 1**
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	25	0	0	0	25	Feet
515	Steel Protective Coating	785	635	0	0	150	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	25	25	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	150	150	Square Feet

General Comments

Span 1 **Culvert Section 2**
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 **Culvert Section 3**
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 4

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 5

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 6

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 7
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 8
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 9
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 10

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 11

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	0	0	20	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 1 Culvert Section 12

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	3	0	17	Feet
515	Steel Protective Coating	628	508	0	0	120	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)	4	17	20	Feet
240	Scour	FULL WIDTH X 0.5' HIGH X 3' BACK SCOUR AT THE OUTLET END.	2	3		Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	120	120	Square Feet

General Comments

Span 2 Culvert Section 1
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	25	0	25	0	0	Feet
515	Steel Protective Coating	785	635	0	150	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	25		Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	150	150	Square Feet

General Comments

Span 2 Culvert Section 2
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	20	0	0	Feet
515	Steel Protective Coating	628	508	0	120	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120	Square Feet

General Comments

Span 2 Culvert Section 3
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	20	0	0	Feet
515	Steel Protective Coating	628	508	0	120	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120	Square Feet

General Comments

Span 2 Culvert Section 4
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	20	0	0	Feet
515	Steel Protective Coating	628	508	0	120	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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Structure Number: 560531

Inspection Date: 05/10/2022

240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 2 Culvert Section 5

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 2 Culvert Section 6

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 2 Culvert Section 7

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 2 Culvert Section 8
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	20	0	0	Feet
515	Steel Protective Coating	628	508	0	120	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120	Square Feet

General Comments

Span 2 Culvert Section 9
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	20	0	0	Feet
515	Steel Protective Coating	628	508	0	120	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120	Square Feet

General Comments

Span 2 Culvert Section 10
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	20	0	0	Feet
515	Steel Protective Coating	628	508	0	120	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120	Square Feet

General Comments

Span 2 Culvert Section 11
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
240	Steel Culvert	20	0	20	0	0	Feet
515	Steel Protective Coating	628	508	0	120	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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Structure Number: 560531

Inspection Date: 05/10/2022

240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	20	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120	Square Feet
General Comments						

Span 2 Culvert Section 12

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.	2	17	Feet
240	Scour	FULL WIDTH X 2.333' HIGH X 4' BACK SCOUR AT THE OUTLET END.	2	3	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 3 Culvert Section 1

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	25	0	0	0	25 Feet
515	Steel Protective Coating	785	635	0	0	150 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	SEDIMENT AND ROCK WASHED OUT OF PIPE FOR 25' BEGINNING AT THE INLET. EXPOSED MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 6" DEEP. (PAR)	4	25	25 Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	4	150	150 Square Feet
General Comments					

Span 3 Culvert Section 2

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 3 Culvert Section 3

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet

General Comments

Span 3 Culvert Section 4

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet

General Comments

Span 3 Culvert Section 5

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet

General Comments

Span 3 Culvert Section 6

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet

515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120	Square Feet
General Comments						

Span 3 Culvert Section 7

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 3 Culvert Section 8

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 3 Culvert Section 9

Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet
General Comments					

Span 3 Culvert Section 10
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet

General Comments

Span 3 Culvert Section 11
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet

General Comments

Span 3 Culvert Section 12
Steel Round Structural Plate

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
240	Steel Culvert	20	0	20	0	0 Feet
515	Steel Protective Coating	628	508	0	120	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
240	Corrosion	CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.	2	17	Feet
240	Scour	FULL WIDTH X 2.5' HIGH X 3' BACK SCOUR AT THE OUTLET END.	2	3	Feet
515	Effectiveness (Steel Protective Coatings)	DETERIORATED BELOW WATER LINE, ALLOWING CORROSION.	3	120	120 Square Feet

General Comments

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 560531

Inspection Date: 05/10/2022

National Bridge Inventory Items

Item	Grade Scale	Grade	
Item 58: Deck	0 - 9 , N	N	<p>Note:</p> <p>Items 58,59,60,62 reflect this inspection only.</p> <p>For overall NBI coding grade, see cover sheet.</p>
Item 59: Superstructure	0 - 9 , N	N	
Item 60: Substructure	0 - 9 , N	N	
Item 61: Channel and Channel Protection	0 - 9 , N	5	
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	G	0	4675
Wingwall	G, F, P, or C		0	3350
Scour	G, F, P, or C	F		
Drift	G, F, P, or C	F	30	3366
Estimated Remaining Life	G, F, P, or C			

Note: If NC SMU Inspection 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	Y
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	N
Portion of Structure in > 3' of water	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 560531

Inspection Date: 05/10/2022

Item	Channel and Channel Protection - Item 61	Grade 5	Maint Code	Qty. 0
Details	40' WIDE X 20' LONG X 5' DEEP AREA OF STREAMBED DEGRADATION AT THE OUTLET END OF THE CULVERT WITH SCOUR UNDERNEATH ALL BARRELS.			

Item	Culvert - Item 62	Grade 4	Maint Code	Qty. 0
Details	SCOUR ACROSS OUTLET END, CORROSION WITH COMPLETE SECTION LOSS TO INVERT OF BARREL 1 AND BARREL 3. (NOTE: INVERT OF BARREL 2 IS NOT VISIBLE DUE TO SEDIMENT AND ROCK BUILDUP)			

Item	Priority Maintenance Issued	Grade Y	Maint Code	Qty. 0
Details	CORROSION			

Item	Drift	Grade F	Maint Code 3366	Qty. 30
Details	25' WIDE X 5' HIGH X 3' DEEP DRIFT ACROSS BARREL 2 BARREL 2 AND 3: ROCK AND SEDIMENT BUILDUP UP TO 1' DEEP THE FULL LENGTH. SCATTERED BUILDUP IN BARREL 1.			

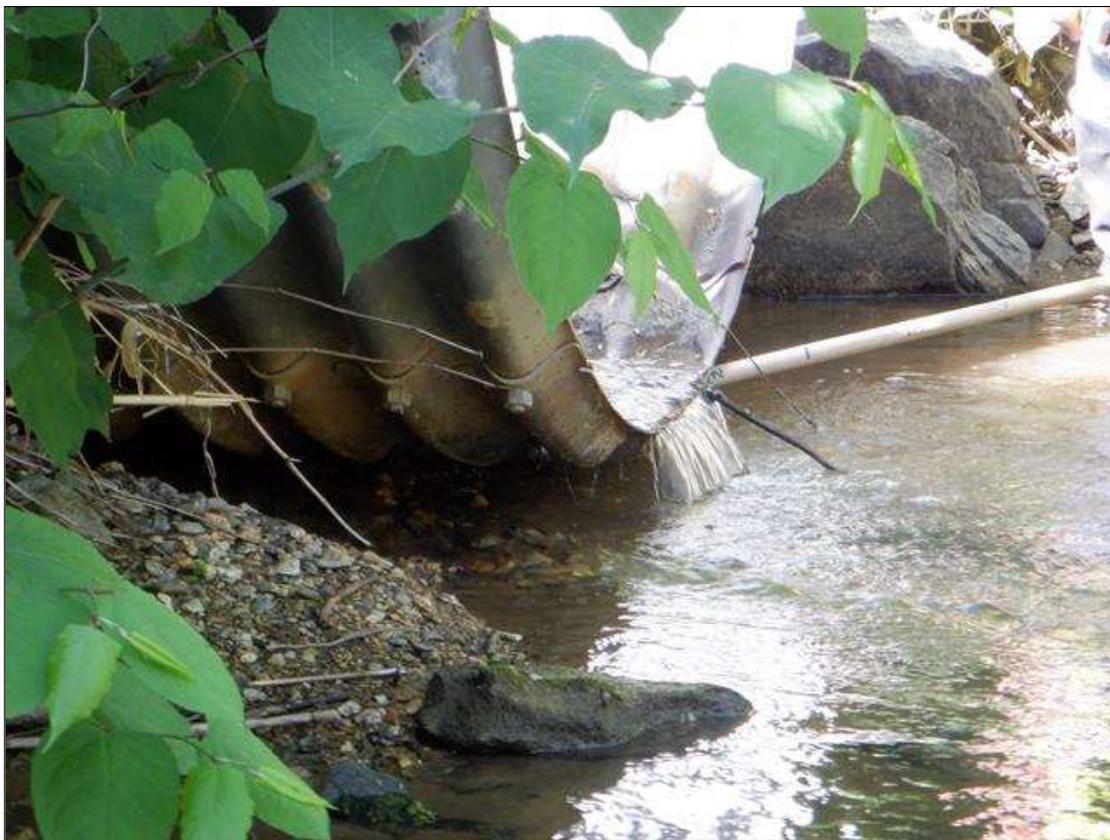
Item	Headwalls	Grade G	Maint Code 4675	Qty. 0
Details	STACKED STONE HEADWALLS			



Span 3 Culvert Section 12: FULL WIDTH X 2.5' HIGH X 3' BACK SCOUR AT THE OUTLET END.



Span 2 Culvert Section 12: FULL WIDTH X 2.333' HIGH X 4' BACK SCOUR AT THE OUTLET END.



Span 1 Culvert Section 12: FULL WIDTH X 0.5' HIGH X 3' BACK SCOUR AT THE OUTLET END.



Span 2 Culvert Section 1: CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.



Span 2 Culvert Section 2: CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.



Span 2 Culvert Section 3: CORROSION WITH 0.0625" PITTING AND SCALE LOSS ALONG THE WATERLINE. BOTTOM PORTION NOT VISIBLE DUE TO ROCK AND SEDIMENT BUILDUP.



DRIFT 25' WIDE X 5' HIGH X 3' DEEP ACROSS BARREL 2.



Span 1 Culvert Section 1: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)



Span 1 Culvert Section 2: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)



Span 1 Culvert Section 3: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)



Span 1 Culvert Section 4: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)



Span 1 Culvert Section 5: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)



Span 1 Culvert Section 6: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)



Span 1 Culvert Section 7: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)



Span 1 Culvert Section 8: SEDIMENT AND ROCK HAS WASHED OUT OF THE PIPE EXPOSING THE INVERT. CORROSION WITH MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 3" LONG. THE STREAM IS INTRUDING UNDERNEATH THE CULVERT. (PAR)



Span 3 Culvert Section 1: SEDIMENT AND ROCK WASHED OUT OF PIPE FOR 25' BEGINNING AT THE INLET. EXPOSED MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 6" DEEP. (PAR)



Span 3 Culvert Section 1: SEDIMENT AND ROCK WASHED OUT OF PIPE FOR 25' BEGINNING AT THE INLET. EXPOSED MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 6" DEEP. (PAR)



Span 3 Culvert Section 1: SEDIMENT AND ROCK WASHED OUT OF PIPE FOR 25' BEGINNING AT THE INLET. EXPOSED MULTIPLE AREAS OF COMPLETE LOSS IN THE CORRUGATIONS UP TO 5' WIDE X 6" DEEP. (PAR)



Span 3 Culvert Section 12: CORROSION WITH UP TO 0.0625" PITTING ALONG THE INVERT, UNDERNEATH THE WATER LINE.

Barrel Number 1

Skew 90 ° Length along centerline (ft) 245.0 Height Crown to Bed (ft) 54.0 Fill Depth (ft) 44.0

Section 1 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 2 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 3 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 4 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 5 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 6 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 7 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 8 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>

Structure Number: 560531

Inspection Date 05/10/2022

Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 9 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 10 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 11 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 12 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				

Structure Number: 560531

Inspection Date 05/10/2022

Pipe Thickness Measurements

Location (ft)	Thickness (in)	Comment
1	0.222	
24	0.222	
26	0.223	
44	0.225	
46	0.228	
64	0.225	
66	0.227	
84	0.223	
86	0.223	
104	0.221	
106	0.227	
124	0.229	
126	0.229	
144	0.226	
146	0.225	
164	0.225	
166	0.224	
184	0.224	
186	0.225	
204	0.227	
206	0.229	
224	0.226	
226	0.23	
244	0.231	

Barrel Number 2

Skew 90 ° Length along centerline (ft) 245.0 Height Crown to Bed (ft) 54.0 Fill Depth (ft) 44.0

Section 1 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)	<u>3.0</u>	
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 2 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)	<u>3.0</u>	
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 3 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)	<u>3.0</u>	
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 4 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)	<u>3.0</u>	
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 5 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)	<u>3.0</u>	
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 6 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)	<u>3.0</u>	
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 7 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)	<u>3.0</u>	
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 8 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>

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Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 9 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 10 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 11 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 12 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				

Structure Number: 560531

Inspection Date 05/10/2022

Pipe Thickness Measurements

Location (ft)	Thickness (in)	Comment
1	0.225	
24	0.223	
26	0.225	
44	0.228	
46	0.227	
64	0.229	
66	0.225	
84	0.224	
86	0.228	
104	0.223	
106	0.223	
124	0.227	
126	0.224	
144	0.227	
146	0.225	
164	0.222	
166	0.229	
184	0.225	
186	0.227	
204	0.223	
206	0.224	
224	0.228	
226	0.227	
244	0.226	

Barrel Number 3

Skew 90 ° Length along centerline (ft) 245.0 Height Crown to Bed (ft) 54.0 Fill Depth (ft) 44.0

Section 1 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u>6 X 2</u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 2 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 3 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 4 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 5 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 6 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 7 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows		<u>2</u>	Spacing (in)		<u>3.0</u>
Transverse Spacing between Bolt Rows (in)		<u>2.0</u>			
Section 8 Details		Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>

Structure Number: 560531

Inspection Date 05/10/2022

Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 9 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 10 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 11 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				
Section 12 Details	Barrel Height (ft)	<u>10.0</u>	Barrel Width (ft)	<u>10.0</u>	
Section Type	<u>Arch</u>	Material	<u>Steel</u>	Corrugation Pattern	<u></u>
Top Radius (ft)	<u>0.0</u>	Bolt Material	<u>Steel</u>	Bolt Diameter (in)	<u>0.75</u>
Longitudinal Bolts: Number of Rows	<u>2</u>	Spacing (in)	<u>3.0</u>		
Transverse Spacing between Bolt Rows (in)	<u>2.0</u>				

Structure Number: 560531

Inspection Date 05/10/2022

Pipe Thickness Measurements

Location (ft)	Thickness (in)	Comment
1	0.225	
24	0.224	
26	0.226	
44	0.224	
46	0.226	
64	0.225	
66	0.223	
84	0.223	
86	0.224	
104	0.224	
106	0.222	
124	0.224	
126	0.224	
144	0.224	
146	0.228	
164	0.224	
166	0.223	
184	0.225	
186	0.23	
204	0.228	
206	0.229	
224	0.224	
226	0.225	
244	0.225	

Bridge Inspection Field Sketch

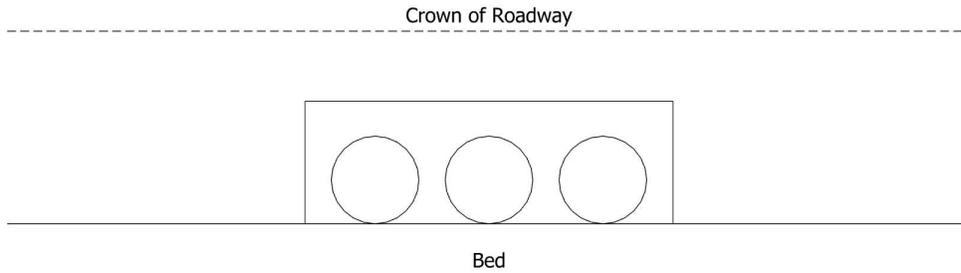
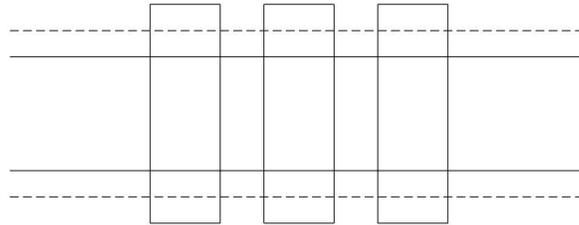


Measurements taken at the Culvert

Roadway	19.9ft Wide	2 Paved Lanes	Looking North
Left Shoulder	1ft Wide	1ft Paved	
Right Shoulder	1ft Wide	1ft Paved	
Left Guardrail	6.750ft from road		
Right Guardrail	4.917ft from road		

Title Approach Roadway		Description Looking North	
Structure No: 560531	Drawn By: Dennis Wilson	Date: 5/9/2022	Filename: S000000001121.wes

Bridge Inspection Field Sketch



Number of Barrels	Skew	Distance From Crown to Bed	Fill Depth
3	90°	54ft	44ft
Length Along Center Line of Pipe		Length Along Center Line of Roadway	
245ft		41.250ft	
Left Edge of Road to Culvert		Right Edge of Road to Culvert	
112.5ft		112.5ft	

Barrel #	Width	Height	Distance From Previous Pipe	Type
1	10ft	10ft		Steel Round Structural Plate
2	10ft	10ft	5ft	Steel Round Structural Plate
3	10ft	10ft	5ft	Steel Round Structural Plate

Speed Limit: 45MPH
 Lt: Road to Rail 6'-9"
 Rt: Road to Rail 4'-11"

Title Pipe		Description Pipe Details		
Structure No: 560531	Drawn By: Dennis Wilson	Date: 5/9/2022	Filename: S000000001123.wes	



SOUTH APPROACH LOOKING NORTH



NORTH APPROACH LOOKING SOUTH



DOWNSTREAM PROFILE



LOOKING DOWNSTREAM



LOOKING UPSTREAM



UPSTREAM PROFILE