NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY ACTION REQUEST ISSUED; TEMPORARY SHORING

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 910247 **SAP STRUCTURE NO:** 0920247 **FHWA STRUCTURE NO:** 000000001830247

DIVISION: 5 **COUNTY:** WAKE **INSPECTION DATE:** 06/07/2022 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR2555 **MILE POST:**

LOCATION: 1.2 MI. S.W. OF JCT. US70

FEATURE INTERSECTED: WHITE OAK CREEK

LATITUDE: 35° 40' 18.15" **LONGITUDE:** 78° 32' 55.06"

SUPERSTRUCTURE: RC FLOOR ON TIMBER JOIST,STD BMD-10

SUBSTRUCTURE: E.BTS.& IBT: TIM.CAPS & PILES @ 8`CTS.BT1:STL.CRUTCH BTS.

SPANS: 2 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

☐ FRACTURE CRITICAL ☑ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) **DECK** 6 / 6 **SUPERSTRUCTURE** 6 / 6 **SUBSTRUCTURE** 4 / 3 **CULVERT** N / N

POSTED SV: 18 **POSTED TTST:** 26

OTHER SIGNS PRESENT: 4 DELINEATORS

Looking north

Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Rick Wertman		Jim Stocks

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

08/26/2022

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **910247**
(8) STRUCTURE NUMBER (FEDERAL) **1830247**
(5) INVENTORY ROUTE (ON/UNDER) ON **131025550**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **5**
(3) COUNTY CODE (FEDERAL) **183** (4) PLACE CODE **25480**
(6) FEATURE INTERSECTED **WHITE OAK CREEK**
(7) FACILITY CARRIED **SR2555**
(9) LOCATION **1.2 MI. S.W. OF JCT. US70**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE
(16) LATITUDE **35° 40' 18.15"** (17) LONGITUDE **78° 32' 55.06"**
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN **Wood or Timber**
TYPE **Stringer/Multi-beam or girder** CODE **702**
(44) STRUCTURE TYPE APPROACH
TYPE CODE
(45) NUMBER OF SPANS IN MAIN UNIT **2**
(46) NUMBER OF SPANS IN APPROACH **0**
(107) DECK STRUCTURE TYPE CODE **1**
(108)WEARING SURFACE/PROTECTIVE SYSTEM
(A) TYPE OF WEARING SURFACE CODE **6**
(B) TYPE OF MEMBRANE CODE **0**
(C) TYPE OF DECK PROTECTION CODE **0**

AGE AND SERVICE

(27) YEAR BUILT **1952**
(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 **8300**
(30) YEAR OF ADT **2019** (109) TRUCK ADT PCT **7**
(19) BYPASS OR DETOUR LENGTH **5.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **18.0**
(49) STRUCTURE LENGTH **36.0**
(50) CURB OR SIDEWALK: LEFT **0.7** RIGHT **0.7**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **24.0**
(52) DECK WIDTH OUT TO OUT **27.3**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **24.0**
(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 **24.0**
(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**

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**

SUFFICIENCY RATING **7.00**
STATUS = **Structurally Deficient**

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(104) HIGHWAY SYSTEM **Inventory Route not on NHS** **0**
(26) FUNCTIONAL CLASS **Urban Collector** **17**
(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 **Temporary Structure or Conditions** **T**
(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**

CONDITION — CODE

(58) DECK **6**
(59) SUPERSTRUCTURE **6**
(60) SUBSTRUCTURE **3**
(61) CHANNEL & CHANNEL PROTECTION **5**
(62) CULVERTS **N**

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD **H 9** **1**
(63) OPERATING RATING METHOD - **Allowable Stress** **2**
(64) OPERATING RATING - **HS-16** **29**
(65) INVENTORY RATING METHOD - **2**
(66) INVENTORY RATING **HS-11** **19**
(70) BRIDGE POSTING **Posting Required** **0**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **P**
DESCRIPTION **Posted for Load**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **3**
(68) DECK GEOMETRY **2**
(69) UNDERCLEARANCES, VERT & HORIZ **N**
(71) WATERWAY ADEQUACY **6**
(72) APPROACH ROADWAY ALIGNMENT **8**
(36) TRAFFIC SAFETY FEATURES **0000**
(113) SCOUR CRITICAL BRIDGES **5**

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK CODE
(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 **16,600** YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE **06/22** (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** 18.0000 **Skew** 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	455 Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	432 Square Feet		
19	Timber Joist	Timber Open Girder/Beam	342 Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	36 Feet		

Span Number 2 **Span Length** 18.0000 **Skew** 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	432 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	36 Feet		
19	Timber Joist	Timber Open Girder/Beam	342 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	455 Square Feet		

Structure Element Scoring

Structure Number: **910247**

Inspection Date **6/7/2022**

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	910	904	6	0	0
111		Timber Open Girder/Beam	Beam	684	458	220	2	4
331		Reinforced Concrete Bridge Railing	Bridge Rail	72	72	0	0	0
510		Wearing Surface	Wearing Surfaces	864	462	4	398	0
216		Timber Abutment	Abutments	72	36	35	1	0
225		Steel Pile	Piles and Columns	6	0	6	0	0
515	225	Steel Protective Coating	Piles and Columns	609	573	0	0	36
228		Timber Pile	Piles and Columns	12	4	8	0	0
231		Steel Pier Cap	Caps	54	14	40	0	0
515	231	Steel Protective Coating	Caps	316	276	0	0	40
235		Timber Pier Cap	Caps	79	53	18	8	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **910247** Inspection Date: **06/07/2022**

MMS Code	Element Name	Defect Name	Recommended Quantity
3304	Timber Open Girder/Beam	Split/Delamination (Timber)	6 Feet
3304	Timber Open Girder/Beam	Damage	4 Feet
3346	Timber Abutment	Decay/Section Loss	1 Feet
3344	Timber Pile	Connection	1 Each
3344	Timber Pier Cap	Decay/Section Loss	6 Feet
3344	Timber Pier Cap	Split/Delamination (Timber)	2 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	72 Feet
2816	Wearing Surface	Crack (Wearing Surface)	396 Square Feet
2816	Wearing Surface	Delamination/Spall (Wearing Surfaces)	4 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	76 Square Feet

Element Structure Maintenance Quantities

Structure Number: **910247** Inspection Date **06/07/2022**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3304	Maintenance of Timber of Superstructure Components	10	684	4.000	2.000	220.000	458.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	72	72	0.000	0.000	0.000	72.000
Deck	3326	Maintenance of Concrete Deck	0	910	0.000	0.000	6.000	904.000
Wearing Surfaces	2816	Asphalt Surface Repair	400	864	0.000	398.000	4.000	462.000
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	1	72	0.000	1.000	35.000	36.000
Caps	3342	Clean and Paint Steel	40	316	40.000	0.000	0.000	276.000
Caps	3344	Maintenance To Timber Substructure	8	79	0.000	8.000	18.000	53.000
Caps	3354	Maintenance of Steel Substructure Components	0	54	0.000	0.000	40.000	14.000
Piles and Columns	3342	Clean and Paint Steel	36	609	36.000	0.000	0.000	573.000
Piles and Columns	3344	Maintenance To Timber Substructure	1	12	0.000	0.000	8.000	4.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	6	0.000	0.000	6.000	0.000

Priority Actions Request

Structure Number 910247

Span1

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	2	Span 1 Wearing Surface: PAR--SPALL/POTHOLE OVER ABUTMENT 1 (2FT L. X 8IN W. X 3IN D.) NORTHBOUND TRAVEL LANE STARTING 2FT FROM RIGHT SHOULDER. (PAR)

Span2

3304 **Beam 19** Timber Joist

Priority Level	Defect Type	Quantity	Defect Description
2	Split/Delamination	4	Span 2 Beam 19: PAR--SPLIT (4IN D. X 4FT L.) TO BOTH SIDES AT BOTTOM 1/4 OF BEAM AT FAR END.

Bent 1

3346 **Abutment** Timber Abutment

Priority Level	Defect Type	Quantity	Defect Description
2	Decay/Section Loss	1	End Bent 1 Abutment: PAR--EAST SIDE ABUTMENT SUPPORT PILE - DECAY (12IN H. X 4IN W. X 4IN D.) TO RIGHT SIDE, 2FT FROM BOTTOM.

3344 **Cap 1** Timber Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Decay/Section Loss	6	End Bent 1 Cap 1: PAR--HOLLOW WHEN SOUNDED (6FT L. X FULL HT.) STARTING OVER COLUMN 3.

3344 **Pile 2** Timber Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Connection	1	End Bent 1 Pile 2: PAR--BEARING LOSS (UP TO 3IN) AT TOP OF PILE DUE TO PILE OUT OF PLUM.

Removal of Hazard

Removal of Hazard Removal of Hazard

Priority Level	Defect Type	Quantity	Defect Description
2		0	PAR--NORTH APPROACH NORTHBOUND LANE FULL DEPTH POTHOLE 1 FT DIAMETER AT SHOULDER WITH VOID 5 FT DEEP WHICH EXTENDS SEVERAL

Priority Actions Request

Structure Number **910247**

		FEET BEHIND ABUTMENT 2 INTO NB TRAVEL LANE. APPROACH PAVEMENT HAS SETTLED UPTO 4 IN. CONTACTED NCDOT MAINTENANCE FOR IMMEDIATE ATTENTION.
2	0	PAR--Southwest wingwall top 1' deep x full circumference area of decay to top holdback pile with 40% average remaining

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Element Condition and Maintenance Data

Structure Number: **910247** Inspection Date: **06/07/2022**

Span 1 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	455	452	3	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Patched Areas	REPAIR TO UNDERSIDE OF DECK BAY 1, 9 & 18, FAR END	2	3		Square Feet

General Comments

Span 1 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	432	207	1	224	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	AWS OVER END BENT 1 - TRANSVERSE CRACKING (UP TO 1 INCH X FULL WIDE.) THROUGHOUT, AND AWS OVER BENT 1 & CRUTCH BENTS - TRANSVERSE CRACKING (UP TO 1/2 INCHES X FULL WIDE.) WITH BROKEN AWS NEAR CENTER LINE2.5 FEET WIDE X 3 INCHES LONG. BENT 1 SHOWN	3	72	72	Square Feet
☑ **510**	Crack (Wearing Surface)	INTERMITTENT LONGITUDINAL OPEN CRACKING (UP TO 1/16 INCHES X 5 FEET LONG.) THROUGHOUT	3	150	150	Square Feet
☑ **510**	Delamination/Spall (Wearing Surfaces)	PAR--SPALL/POTHOLE OVER ABUTMENT 1 (2 FEET LONG. X 8 INCHES WIDE. X 3 INCHES DEEP) NORTHBOUND TRAVEL LANE STARTING 2 FEET FROM RIGHT SHOULDER.	3	2	2	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	SOUND PATCH, 1 FOOT X 1 FOOT AT FAR END, CENTER OF ROADWAY	2	1		Square Feet

General Comments

Span 1 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	18	18	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	MODERATE WEAR WITH EXPOSED AGGREGATE (FULL WIDTH X FULL LENGTH) THROUGHOUT	2		18	Feet

General Comments

Span 1 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	18	18	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	MODERATE WEAR WITH EXPOSED AGGREGATE (FULL WIDTH X FULL LENGTH) THROUGHOUT	2		18	Feet

General Comments

Span 1 — Beam 1

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	6	12	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG) THROUGHOUT BEAM	2	10		Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1IN DEEP. X FULL HEIGHT) THROUGHOUT ENDS OF BEAM	2	1		Feet
☑ **111**	Damage	MINOR CRUSHING, UP TO (3/16 INCHES), AT BOTTOM OF BEAM, NEAR END	2	1	1	Feet

General Comments

Span 1 — Beam 2

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	8	10	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG.) THROUGHOUT BEAM	2	8		Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1 INCHES DEEP. X FULL HEIGHT.) THROUGHOUT FAR END OF BEAM	2	1		Feet
☑ **111**	Damage	MINOR CRUSHING, UP TO (3/16 INCHES), AT BOTTOM OF BEAM, NEAR END	2	1	1	Feet

General Comments

Span 1 — Beam 3

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	12	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG) THROUGHOUT BEAM	2	5	Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1IN DEEP X FULL HEIGHT) THROUGHOUT FAR END OF BEAM	2	1	Feet

General Comments

Span 1 Beam 4

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP X 6FT LONG) THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1 INCHES DEEP X FULL HEIGHT) THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 5

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	11	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG.) THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1 INCHES DEEP. X FULL HEIGHT.) THROUGHOUT FAR END OF BEAM	2	1		Feet
☑ **111**	Check/Shake	SHAKE (30 INCHES LONG. X 2 INCHES WIDE. X 1 INCHES DEEP.) TO BOTTOM EAST FACE AT MID-SPAN	2	3		Feet

General Comments

Span 1 Beam 6

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG.) THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1 INCHES DEEP. X FULL HEIGHT .) THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 7

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6FT LONG.) THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1 INCHES DEEP. X FULL HEIGHT .) THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 8

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	5	13	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP X 6 FEET LONG) THROUGHOUT BEAM	2	10		Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1 INCHES DEEP X FULL HEIGHT) THROUGHOUT FAR END OF BEAM	2	1		Feet
☑ **111**	Damage	MINOR CRUSHING, UP TO (3/16 INCHES), AT BOTTOM OF BEAM, NEAR END	2	1	1	Feet
☑ **111**	Split/Delamination (Timber)	DELAMINATION (12 INCHES X 2 INCHES) HIGH X 1/4 INCHES DEEP TO TOP WEST FACE, 4 FEET FROM NEAR END	2	1		Feet

General Comments

Span 1 Beam 9

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP X 6 FEET LONG) THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING (UP TO 1 INCHES DEEP X FULL HEIGHT) THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 10

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	9	9	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG.) THROUGHOUT BEAM	2	8		Feet
☑ 111	Check/Shake	MODERATE CHECKING (UP TO 1 INCH DEEP. X FULL HEIGHT.) THROUGHOUT FAR END OF BEAM	2	1		Feet
☑ 111	Split/Delamination (Timber)	DEFECT NOT PRESENT--SPLIT 12 INCHES X 2 INCHES TO BOTTOM LEFT, 4 FEET FROM NEAR END	2	1		Feet

General Comments

Span 1 Beam 11

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG.) THROUGHOUT BEAM	2	3		Feet
☑ 111	Check/Shake	MODERATE CHECKING (UP TO 1 INCH DEEP. X FULL HEIGHT.) THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 12

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	13	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG.) THROUGHOUT BEAM	2	3		Feet
☑ 111	Check/Shake	MODERATE CHECKING (UP TO 1 INCH DEEP. X FULL HEIGHT.) THROUGHOUT FAR END OF BEAM	2	1		Feet
☑ 111	Damage	MINOR CRUSHING, UP TO (3/16 INCHES), AT BOTTOM OF BEAM, NEAR END	2	1	1	Feet

General Comments

Span 1 Beam 13

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	13	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG.) THROUGHOUT BEAM	2	3		Feet
☑ 111	Check/Shake	MODERATE CHECKING (UP TO 1 INCH DEEP. X FULL HEIGHT.) THROUGHOUT FAR END OF BEAM	2	1		Feet
☑ 111	Damage	MINOR CRUSHING (UP TO 3/16 INCHES X FULL WIDE.) TO BOTTOM OF BEAM	2	1		Feet

General Comments

Span 1 Beam 14

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING (UP TO 1/2 INCHES DEEP. X 6 FEET LONG.) THROUGHOUT BEAM	2	3		Feet
☑ 111	Check/Shake	MODERATE CHECKING (UP TO 1 INCH DEEP. X FULL HEIGHT.) THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 15

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP. X 6 FEET LONG. THROUGHOUT BEAM	2	3		Feet
☑ 111	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP. X FULL HEIGHT. THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 16

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP. X 6 FEET LONG. THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP. X FULL HEIGHT THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 17

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP. X 6 FEET LONG. THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP. X FULL HEIGHT THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 18

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	11	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP. X 6 FEET LONG THROUGHOUT BEAM	2	6		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP. X FULL HEIGHT THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 1 Beam 19

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	7	11	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP. X 6 FEET LONG THROUGHOUT BEAM	2	10		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP. X FULL HEIGHT THROUGHOUT FAR END OF BEAM	2	1		Feet

General Comments

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	455	452	3	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Patched Areas	REPAIR TO UNDERSIDE OF DECK BAY 1, 9 & 18, NEAR END	2	3		Square Feet

General Comments

Span 2 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	432	255	3	174	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	ASPHALT WEARING SURFACE OVER END BENT 2 - TRANSVERSE CRACKING UP TO 3/4 INCHES X FULL WIDE	3	24	24	Square Feet
☑ **510**	Crack (Wearing Surface)	INTERMITTENT LONGITUDINAL CRACKING UP TO 1/16 INCHES X 5 FEET LONG THROUGHOUT	3	150	150	Square Feet
☑ **510**	Delamination/Spall (Wearing Surfaces)	ASPHALT WEARING SURFACE OVER END BENT 2 - SPALL UP TO 1 FOOT LONG X 3 INCHES X 1 INCH NEAR CENTER INCHES NORTHBOUND TRAVEL LANE.	2	2	2	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	SOUND PATCH, 1 FOOT X 1 FOOT AT NEAR END, CENTER OF ROADWAY	2	1		Square Feet

General Comments

Span 2 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	18	18	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	MODERATE WEAR WITH EXPOSED AGGREGATE FULL WIDTH X FULL LENGTH THROUGHOUT	2		18	Feet

General Comments

Span 2 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	18	18	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	MODERATE WEAR WITH EXPOSED AGGREGATE (FULL WIDTH X FULL LENGTH) THROUGHOUT	2		18	Feet

General Comments

Span 2 Beam 1

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	7	11	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	10		Feet
☑ 111	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP. X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 2

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	11	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	6		Feet
☑ 111	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 3

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ 111	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 4

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	13	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3	Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1	Feet
☑ **111**	Connection	NEAR BEARING AT CRUTCH BENT - SHIM PLATE SLIGHTLY SHIFTED	2	1	Feet

General Comments

Span 2 Beam 5

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 6

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 7

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 8

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 9

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 10

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 11

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet

☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 12

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 13

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 14

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 15

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	14	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ 111	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 16

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	12	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	3		Feet
☑ 111	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet
☑ 111	Check/Shake	SHAKE 12 INCHES LONG X 2 INCHES X 1 INCH TO BOTTOM EAST FACE AT NEAR END	2	2		Feet

General Comments

Span 2 Beam 17

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	11	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 111	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	6		Feet
☑ 111	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Span 2 Beam 18

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	10	8	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	7	Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1	Feet

General Comments

Span 2 Beam 19

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	5	7	2	4	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **111**	Split/Delamination (Timber)	PAR--SPLIT 4 INCHES DEEP X 4 FEET LONG TO BOTH SIDES AT BOTTOM 1/4 OF BEAM AT FAR END.	4	4	4	Feet
☑ **111**	Split/Delamination (Timber)	SECTION LOSS 21 INCHES LONG. X 2 INCHES DEEP X 2 INCHES WIDE TO BOTTOM WEST FACE AT NEAR END	3	2	2	Feet
☑ **111**	Check/Shake	INTERMITTENT MINOR LONGITUDINAL CHECKING UP TO 1/2 INCHES DEEP X 6 FEET LONG THROUGHOUT BEAM	2	6		Feet
☑ **111**	Check/Shake	MODERATE CHECKING UP TO 1 INCH DEEP X FULL HEIGHT THROUGHOUT NEAR END OF BEAM	2	1		Feet

General Comments

Bent 1 Abutment

Timber Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
216	Timber Abutment	36	0	35	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **216**	Decay/Section Loss	PAR--EAST SIDE ABUTMENT SUPPORT PILE - DECAY (12 INCHES HEIGHT X 4 INCHES WIDE X 4 INCHES DEEP) TO RIGHT SIDE, 2 FEET FROM BOTTOM.	3	1	1	Feet
☑ **216**	Settlement	DEFECTION (OVER FULL HEIGHT X FULL WIDE) THROUGHOUT LAGGING WITH BULGING TOWARDS STREAM CENTERED AT CAP MID-POINT.	2	35		Feet

General Comments

PREVIOUSLY REPLACED

Bent 1 Cap 1

Timber Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
235	Timber Pier Cap	26	0	18	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **235**	Decay/Section Loss	PAR--HOLLOW WHEN SOUNDED (6 FEET LONG X FULL HEIGHT) STARTING OVER COLUMN 3.	3	6	6	Feet

☑ **235**	Split/Delamination (Timber)	SPLIT (24 INCHES LONG X 2 INCHES X 2 INCHES) TO BOTTOM LEFT OVER PILE 1 AT NAIL LOCATION	3	2	2	Feet
☑ **235**	Connection	ROTATION (1 INCH X FULL LONG) BOTTOM ROTATED TOWARDS STREAM	2	17		Feet
☑ **235**	Damage	CRUSHING (UP TO 1/8 INCHES) TO BOTTOM OF CAP AT TOP OF PILE 2.	2	1		Feet

General Comments

Bent 1 Pile 2

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **228**	Connection	PAR--BEARING LOSS (UP TO 3 INCHES) AT TOP OF PILE DUE TO PILE OUT OF PLUM.	3		1	Each
☑ **228**	Check/Shake	INTERMITTENT VERTICAL CHECKS, UP TO (1 INCH DEEP X 3 FEET LONG), THROUGHOUT PILE	2			Each
☑ **228**	Settlement	OUT OF PLUMB (3 INCHES OVER 5 FEET) LEANING TOWARDS STREAM.	2	1		Each

General Comments

Bent 1 Pile 3

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **228**	Check/Shake	INTERMITTENT VERTICAL CHECKS, UP TO (1.25 INCHES DEEP X 1 FOOT LONG), THROUGHOUT PILE, MOSTLY AT TOP	2	1		Each

General Comments

Bent 1 Pile 4

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **228**	Check/Shake	INTERMITTENT VERTICAL CHECKS, UP TO (2 INCHES DEEP X 18 INCHES LONG), THROUGHOUT PILE, MOSTLY AT TOP	2	1		Each

General Comments

Bent 1 Pile 4

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **228**	Decay/Section Loss	10" X 8" X 1 1/2" DEEP AREA OF DECAY WEST FACE MID HEIGHT	2	1		Each

General Comments

Bent 2 Pile 1

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **228**	Check/Shake	INTERMITTENT VERTICAL CHECKING (UP TO 1/2 INCHES DEEP X FULL HEIGHT) THROUGHOUT	2			Each
☑ **228**	Decay/Section Loss	SECTION LOSS (6 INCHES X 6 INCHES X 1 INCH) TO WEST FACE, 2 FEET FROM TOP	2	1		Each

General Comments

Bent 2 Pile 2

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **228**	Check/Shake	INTERMITTENT VERTICAL CHECKING (UP TO 1 INCH DEEP. X FULL HEIGHT.) THROUGHOUT	2			Each
☑ **228**	Damage	DAMAGE (10 INCHES X 8 INCHES X 1/2 INCHES) TO FRONT FACE AT BOTTOM	2	1		Each

General Comments

Bent 2 Pile 3

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **228**	Check/Shake	INTERMITTENT VERTICAL CHECKING (UP TO 1/2 INCHES DEEP. X FULL HEIGHT.) THROUGHOUT	2			Each
☑ **228**	Decay/Section Loss	DECAY (16IN HEIGHT. X 6 INCHES WIDE. X 1/2 INCHES DEEP.) TO EAST FACE, 2 FEET FROM BOTTOM	2	1		Each

General Comments

Bent 2 — Pile 4

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **228**	Check/Shake	INTERMITTENT VERTICAL CHECKING (UP TO 1 INCH DEEP. X FULL HEIGHT.) THROUGHOUT	2	1		Each

General Comments

Crutch Bent 1 Span 1 — Cap 1

Steel Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
231	Steel Pier Cap	27	7	20	0	0	Feet
515	Steel Protective Coating	158	138	0	0	20	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **231**	Corrosion	MINOR CORROSION INTERMITTENT THROUGHOUT CAP, MOSTLY AT EDGES, AND BEARING PLATES	2	20		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	20	20	Square Feet

General Comments

Crutch Bent 1 Span 1 — Saved Pile 1

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	100	94	0	0	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **225**	Corrosion	MINOR CORROSION INTERMITTENT THROUGHOUT PILE, MOSTLY AT EDGES, AND BEARING PLATE AT TOP OF PILE	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	6	6	Square Feet

General Comments

Crutch Bent 1 Span 1 — Saved Pile 2

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	100	94	0	0	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **225**	Corrosion	MINOR CORROSION INTERMITTENT THROUGHOUT PILE, MOSTLY AT EDGES, AND BEARING PLATE AT TOP OF PILE	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	6	6	Square Feet

General Comments

Crutch Bent 1 Span 1 — Saved Pile 3

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	100	94	0	0	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **225**	Corrosion	MINOR CORROSION INTERMITTENT THROUGHOUT PILE, MOSTLY AT EDGES, AND BEARING PLATE AT TOP OF PILE	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	6	6	Square Feet

General Comments

Crutch Bent 1 Span 2 — Cap 1

Steel Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
231	Steel Pier Cap	27	7	20	0	0	Feet
515	Steel Protective Coating	158	138	0	0	20	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **231**	Corrosion	MINOR CORROSION INTERMITTENT THROUGHOUT CAP, MOSTLY AT EDGES, AND BEARING PLATES	2	20		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	20	20	Square Feet

General Comments

Crutch Bent 1 Span 2 — Pile 1

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	103	97	0	0	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **225**	Corrosion	MINOR CORROSION INTERMITTENT THROUGHOUT PILE, MOSTLY AT EDGES, AND BEARING PLATE AT TOP OF PILE	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	6	6	Square Feet

General Comments

Crutch Bent 1 Span 2 Pile 2

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	103	97	0	0	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **225**	Corrosion	MINOR CORROSION INTERMITTENT THROUGHOUT PILE, MOSTLY AT EDGES, AND BEARING PLATE AT TOP OF PILE	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	6	6	Square Feet

General Comments

Crutch Bent 1 Span 2 Pile 3

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	103	97	0	0	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **225**	Corrosion	MINOR CORROSION INTERMITTENT THROUGHOUT PILE, MOSTLY AT EDGES, AND BEARING PLATE AT TOP OF PILE	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	6	6	Square Feet

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	455
Span 1	Beam 1	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 2	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 3	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 4	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 5	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 6	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 7	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 8	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 9	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 10	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 11	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 12	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 13	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 14	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 15	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 16	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 17	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 18	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 19	Timber Joist	Timber Open Girder/Beam	18
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	18
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	18
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	432
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	455
Span 2	Beam 1	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 2	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 3	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 4	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 5	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 6	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 7	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 8	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 9	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 10	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 11	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 12	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 13	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 14	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 15	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 16	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 17	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 18	Timber Joist	Timber Open Girder/Beam	18
Span 2	Beam 19	Timber Joist	Timber Open Girder/Beam	18
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	18
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	18

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	432
Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	26
Bent 1	Pile 1	Timber Pile	Timber Pile	1
Bent 1	Pile 2	Timber Pile	Timber Pile	1
Bent 1	Pile 3	Timber Pile	Timber Pile	1
Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	26
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	36
End Bent 2	Cap 1	Timber Pier Cap	Timber Pier Cap	27
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Pile 3	Timber Pile	Timber Pile	1
End Bent 2	Pile 4	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Timber Abutment	Timber Abutment	36
Crutch Bent 1 Span 1	Cap 1	Steel Pier Cap	Steel Pier Cap	27
Crutch Bent 1 Span 1	Saved Pile 1	Steel Pile	Steel Pile	1
Crutch Bent 1 Span 1	Saved Pile 2	Steel Pile	Steel Pile	1
Crutch Bent 1 Span 1	Saved Pile 3	Steel Pile	Steel Pile	1
Crutch Bent 1 Span 2	Cap 1	Steel Pier Cap	Steel Pier Cap	27
Crutch Bent 1 Span 2	Pile 1	Steel Pile	Steel Pile	1
Crutch Bent 1 Span 2	Pile 2	Steel Pile	Steel Pile	1
Crutch Bent 1 Span 2	Pile 3	Steel Pile	Steel Pile	1

General Inspection Notes

Bent 2 Abutment

Bulkhead boards Previously replaced

Bent 2 Cap 1

Previously replaced

National Bridge and NC Inspection Items

Structure Number: 910247 **Inspection Date:** 06/07/2022

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**6**
Item 59: Superstructure	0 - 9 , N	**6**
Item 60: Substructure	0 - 9 , N	**4**
Item 61: Channel and Channel Protection	0 - 9 , N	**5**
Item 62: Culvert	0 - 9 , N	**N**
Item 71: Waterway Adequacy	0 - 9 , N	**6**
Item 72: Approach Roadway Alignment	0 - 9 , N	**8**

Note:

Items 58,59,60,62 reflect this inspection only.

For overall NBI coding grade, see 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	**F**	**910**	**3376**
Drainage System	G, F, P, or C	**G**	**0**	**3332**
Utilities	G, F, P, or C	**F**		
Slope Protection	G, F, P, or C		**0**	**3352**
Scour	G, F, P, or C	**G**		
Wingwall	G, F, P, or C	**F**	**8**	**3350**
Field Scour Evaluation		**O**		
Drift	G, F, P, or C	**F**	**4**	**3366**
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**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	**N**
Priority Maintenance Request Submitted	YES/NO	**Y**
Inspection Time	Hours	**6**
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: 910247 **Inspection Date:** 06/07/2022

Item	Substructure - Item 60	**Grade**	4	**Maint Code**		**Qty.**	0
Details	PREVIOUSLY GRADED A 4 REMAINS A 4 DUE TO CURRENT DEFECTS AND SIGNIFICANT LOSS OF FILL AND LARGE VOID BEHIND END BENT 2 CREATING SETTLEMENT UP TO 4" IN NORTHBOUND APPROACH LANE.						
Item	Channel and Channel Protection - Item 61	**Grade**	5	**Maint Code**		**Qty.**	0
Details	Minor erosion/scour to upstream and downstream embankments						
Item	Deck Debris	**Grade**	F	**Maint Code**	3376	**Qty.**	910
Details	Debris accumulation full length both curbs, right shown						
Item	Drift	**Grade**	F	**Maint Code**	3366	**Qty.**	4
Details	Minor drift at upstream end of pier 1 and crutch bents						
Item	Utilities	**Grade**	F	**Maint Code**		**Qty.**	0
Details	Abandoned/sagging utility pipe right side of bridge.						
Item	Wingwalls	**Grade**	F	**Maint Code**	3350	**Qty.**	8
Details	Northeast wingwall 4' x 4" x 1 1/2" deep area of decay near bottom PAR--Southwest wingwall top 1' deep x full circumference area of decay to top holdback pile with 40% average remaining						
Item	General Comments and Misc Items	**Grade**		**Maint Code**		**Qty.**	0
Details	PAR--NORTH APPROACH NORTHBOUND LANE FULL DEPTH POTHOLE 1 FT DIAMETER AT SHOULDER WITH VOID 5 FT DEEP WHICH EXTENDS SEVERAL FEET BEHIND ABUTMENT 2 INTO NB TRAVEL LANE. APPROACH PAVEMENT HAS SETTLED UPTO 4 IN. CONTACTED NCDOT MAINTENANCE FOR IMMEDIATE ATTENTION.						

Structure: 910247 County: WAKE Date: 06/07/2022 Condition Photos

PAR--NORTH APPROACH NORTHBOUND LANE FULL DEPTH POTHOLE 1 FEET DIAMETER AT SHOULDER WITH VOID 5 FEET DEEP WHICH EXTENDS SEVERAL FEET BEHIND ABUTMENT 2. APPROACH PAVEMENT HAS SETTLED UPTO 4 INCHES

Span 2 Wearing Surface: ASPHALT WEARING SURFACE OVER END BENT 2 - SPALL UP TO 1 FOOT LONG. X 3 INCHES X 1 INCH NEAR CENTER INCHES NORTHBOUND TRAVEL LANE.

Span 2 Wearing Surface: ASPHALT WEARING SURFACE OVER END BENT 2 - TRANSVERSE CRACKING (UP TO 3/4 INCHES X FULL WIDE.)

Span 2 Wearing Surface: SOUND PATCH, 1 FOOT X 1 FOOT AT NEAR END, CENTER OF ROADWAY

Span 1 Wearing Surface: SOUND PATCH, 1 FOOT X 1 FOOT AT FAR END, CENTER OF ROADWAY

Span 1 Wearing Surface: PAR--SPALL/POTHOLE OVER ABUTMENT 1 2 FEET LONG. X 8 INCHES WIDE. X 3 INCHES DEEP NORTHBOUND TRAVEL LANE STARTING 2 FEET FROM RIGHT SHOULDER.

Span 1 Wearing Surface: ASPHALT WEARING SURFACE OVER END BENT 1 - TRANSVERSE CRACKING UP TO 1 INCH X FULL WIDE. THROUGHOUT, AND ASPHALT WEARING SURFACE OVER BENT 1 & CRUTCH BENTS - TRANSVERSE CRACKING UP TO 1/2 INCHES X FULL WIDTH WITH BROKEN ASPHALT WEARING SURFACE NEAR CENTER LINE 2.5 FEET WIDE X 3 INCHES LONG. BENT 1 SHOWN

Abandoned/sagging utility pipe right side of bridge

Typical surface corrosion on crutch bents

End Bent 2 Pile 3: DECAY 16 INCHES HEIGHT. X 6 INCHES WIDE X 1/2 INCHES DEEP TO EAST FACE, 2 FEET FROM BOTTOM

End Bent 2 Pile 1: SECTION LOSS 6 INCHES X 6 INCHES X 1 INCH TO WEST FACE, 2 FEET FROM TOP

Debris accumulation full length both curbs, right shown

Minor drift at upstream end of pier 1 and crutch bents

Typical bearing/shim plates under beams at crutch bent

Span 2 Beam 4: NEAR BEARING AT CRUTCH BENT - SHIM PLATE SLIGHTLY SHIFTED

Span 2 Beam 19: SECTION LOSS 21 INCHES LONG. X 2 INCHES DEEP X 2 INCHES WIDE TO BOTTOM WEST FACE AT NEAR END

Span 2 Beam 19: PAR--SPLIT 4 INCHES DEEP X 4 FEET LONG TO BOTH SIDES AT BOTTOM 1/4 OF BEAM AT FAR END.

Bent 1 Pile 4: 10" X 8" X 1 1/2" DEEP AREA OF DECAY WEST FACE MID HEIGHT

Span 1 Beam 5: SHAKE 30 INCHES LONG. X 2 INCHES WIDE X 1 INCH DEEP TO BOTTOM EAST FACE AT MID-SPAN

End Bent 1 Cap 1: SPLIT 24 INCHES LONG X 2 INCHES X 2 INCHES TO BOTTOM LEFT OVER PILE 1 AT NAIL LOCATION

End Bent 1 Pile 2: PAR--BEARING LOSS UP TO 3 INCHES AT TOP OF PILE DUE TO PILE OUT OF PLUM.

End Bent 1 Cap 1: PAR--HOLLOW WHEN SOUNDED 6 FEET LONG. X FULL HEIGHT STARTING OVER COLUMN 3.

End Bent 1 Abutment: PAR--EAST SIDE ABUTMENT SUPPORT PILE - DECAY 12 INCHES HEIGHT. X 4 INCHES WIDE X 4 INCHES DEEP TO RIGHT SIDE, 2 FEET FROM BOTTOM.

Northeast wingwall 4' x 4" x 1 1/2" deep area of decay near bottom

PAR--Southwest wingwall top 1' deep x full circumference area of decay to top holdback pile with 40% average remaining

Stream Bed Soundings

(Profile diagram on following sheet)

County **WAKE** Structure Number: **910247** Inspection Date **06/07/2022**

Sounding recorded from: **Top of Bridge Rail**

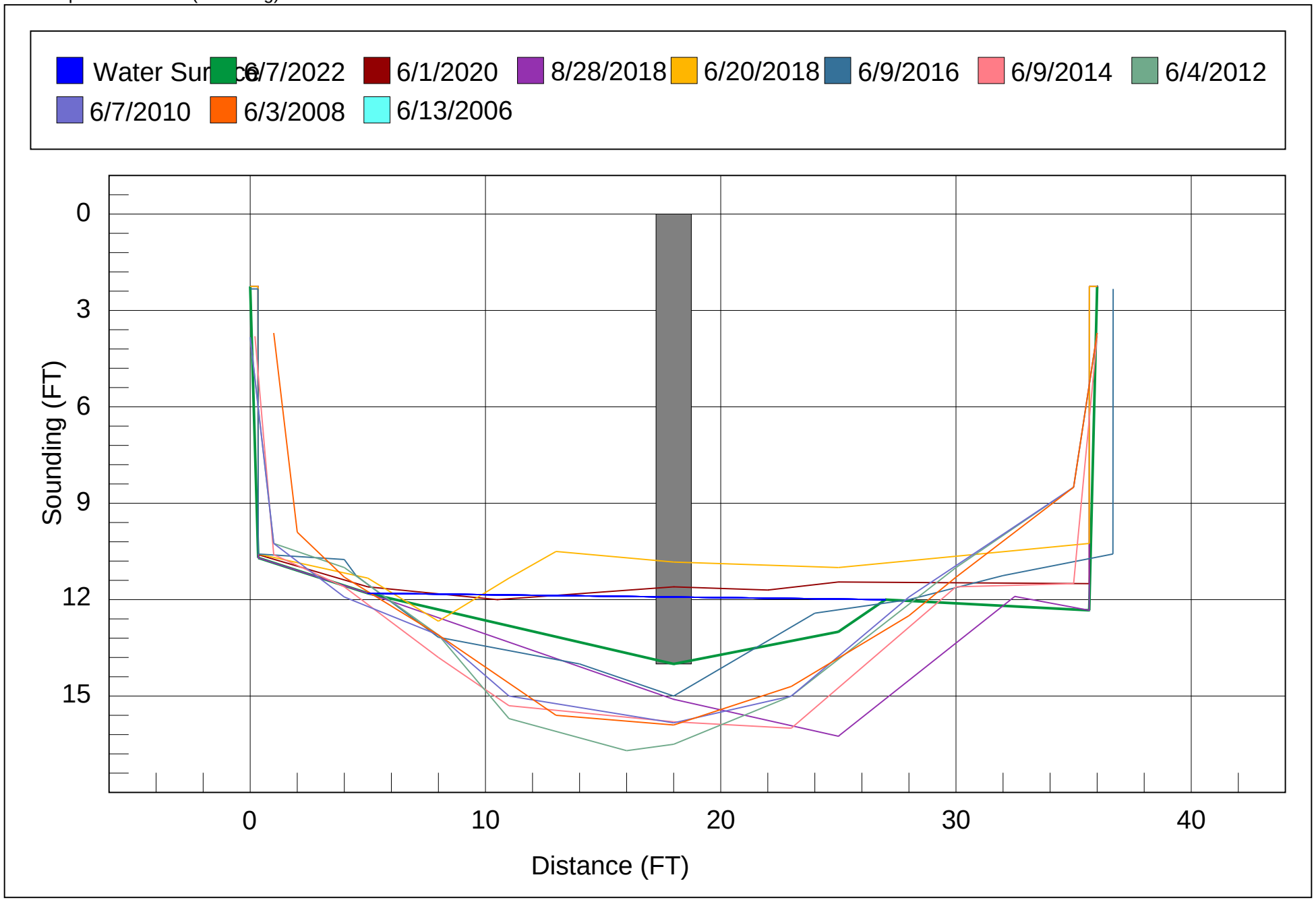
Highwater Mark Distance **7.8** Location of Highwater Mark **Evidence of high water on banks**

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.250	0.000	FF ABUT.1
0.340	10.700	7.330	SF ABUT.1
5.000	11.800	0.000	WSWE
18.000	14.000	13.300	PIER 1
25.000	13.000	0.000	
27.000	12.000	0.000	WSWE
35.660	12.330	10.200	SF ABUT.2
36.000	2.250	0.000	FF ABUT.2

Bridge: 910247 County: WAKE Date: 06/07/2022

STREAMBED PROFILE (Downstream)

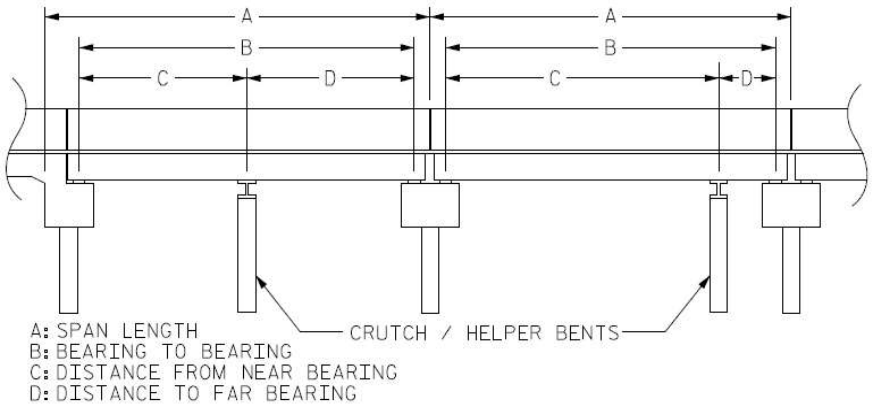
Top of Rail = 0FT (Sounding)



Structure Data Worksheet

Span Profile

County: **WAKE** Structure Number: **910247**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	18.000	15.167			
			1	15.250	1.917
2	18.000	14.750			
			1	1.750	15.000

Narrow bridge sign at north approach

Looking south

Posting sign at north approach

Looking west upstream

Looking east downstream

Posting sign at south approach

Looking north

Narrow bridge sign at south approach

West elevation

East elevation

Abutment 1, abutment 2 similar

Pier 1 and crutch bents

Pier 1 and crutch bents side view

Superstructure underside span 2 shown, span 1 similar

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 910247 County WAKE Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
2816	Asphalt Surface Repair or Replacement	SY	2	Span 1 Wearing Surface: PAR--SPALL/POTHOLE OVER ABUTMENT 1 (2FT L. X 8IN W. X 3IN D.) NORTHBOUND TRAVEL LANE STARTING 2FT FROM RIGHT SHOULDER. (PAR)	
3102	Removal of Hazard	EA	0	PAR--NORTH APPROACH NORTHBOUND LANE FULL DEPTH POTHOLE 1 FT DIAMETER AT SHOULDER WITH VOID 5 FT DEEP WHICH EXTENDS SEVERAL FEET BEHIND ABUTMENT 2 INTO NB TRAVEL LANE. APPROACH PAVEMENT HAS SETTLED UPTO 4 IN. CONTACTED NCDOT MAINTENANCE FOR IMMEDIATE ATTENTION.	
3304	Maintain/Replace Timber Superstructure Components	LF	4	Span 2 Beam 19: PAR--SPLIT (4IN D. X 4FT L.) TO BOTH SIDES AT BOTTOM 1/4 OF BEAM AT FAR END.	
3344	Repair / Replace Timber Substructure Components	LF	6	End Bent 1 Cap 1: PAR--HOLLOW WHEN SOUNDED (6FT L. X FULL HT.) STARTING OVER COLUMN 3.	
3344	Repair / Replace Timber Substructure Components	LF	1	End Bent 1 Pile 2: PAR--BEARING LOSS (UP TO 3IN) AT TOP OF PILE DUE TO PILE OUT OF PLUM.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	1	End Bent 1 Abutment: PAR--EAST SIDE ABUTMENT SUPPORT PILE - DECAY (12IN H. X 4IN W. X 4IN D.) TO RIGHT SIDE, 2FT FROM BOTTOM.	
3350	Maint R C Wings and Walls	SF	0	PAR--Southwest wingwall top 1' deep x full circumference area of decay to top holdback pile with 40% average remaining	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 910247 County WAKE

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

MMS Code	MMS Description	Quantity
2816	Asphalt Surface Repair or Replacement	2 SY

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/07/2022	Rick Wertman	

Details
Span 1 Wearing Surface: PAR--SPALL/POTHOLE OVER ABUTMENT 1 (2FT L. X 8IN W. X 3IN D.) NORTHBOUND TRAVEL LANE STARTING 2FT FROM RIGHT SHOULDER. (PAR)

MMS Code	MMS Description	Quantity
3102	Removal of Hazard	0 EA

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/07/2022	Rick Wertman	

Details
PAR--NORTH APPROACH NORTHBOUND LANE FULL DEPTH POTHOLE 1 FT DIAMETER AT SHOULDER WITH VOID 5 FT DEEP WHICH EXTENDS SEVERAL FEET BEHIND ABUTMENT 2 INTO NB TRAVEL LANE. APPROACH PAVEMENT HAS SETTLED UPTO 4 IN. CONTACTED NCDOT MAINTENANCE FOR IMMEDIATE ATTENTION.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 910247 County WAKE

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

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	4 LF

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/07/2022	Rick Wertman	

Details
Span 2 Beam 19: PAR--SPLIT (4IN D. X 4FT L.) TO BOTH SIDES AT BOTTOM 1/4 OF BEAM AT FAR END.

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	6 LF

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/07/2022	Rick Wertman	

Details
End Bent 1 Cap 1: PAR--HOLLOW WHEN SOUNDED (6FT L. X FULL HT.) STARTING OVER COLUMN 3.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 910247 County WAKE

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	1 LF

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/07/2022	Rick Wertman	

Details
End Bent 1 Pile 2: PAR--BEARING LOSS (UP TO 3IN) AT TOP OF PILE DUE TO PILE OUT OF PLUM.

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	1 SF

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/07/2022	Rick Wertman	

Details
End Bent 1 Abutment: PAR--EAST SIDE ABUTMENT SUPPORT PILE - DECAY (12IN H. X 4IN W. X 4IN D.) TO RIGHT SIDE, 2FT FROM BOTTOM.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 910247 County WAKE

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

MMS Code	MMS Description	Quantity
3350	Maint R C Wings and Walls	0 SF

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/07/2022	Rick Wertman	

Details
PAR--Southwest wingwall top 1' deep x full circumference area of decay to top holdback pile with 40% average remaining

Bridge Inspection Field Sketch

Roadway	20ft Wide	2 Paved Lanes	Looking North
Left Shoulder	5ft Wide	2ft Paved	3ft Unpaved
Right Shoulder	2ft Wide	2ft Paved	
Left Guardrail			
Right Guardrail			

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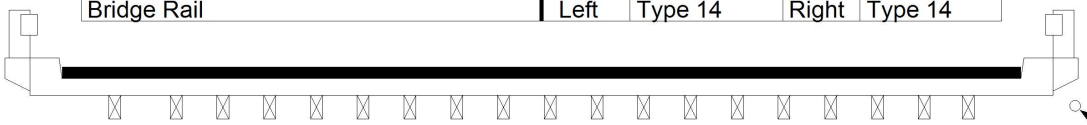
Title	**Description**		
APPROACH ROADWAY	LOOKING NORTH		
Bridge No: 910247	**Drawn By:** CLS	**Date:** 06/03/2008	**File Name:** S0234000585

Bridge Inspection Field Sketch

Deck Width/Out to Out	27.328ft	Between Rails				25.408ft
Clear Roadway	24ft	Wearing Surface				0.292ft
Median Width		Median Height				
Curb Height		Left	0.5ft	Right	0.5ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	0.96ft	Right	0.96ft	
Top of Rail to Deck/Wearing Surface		Left	2.375ft	Right	2.375ft	
Bridge Rail		Left	Type 14	Right	Type 14	



2-1/2" CAST IRON UTILITY PIPE

Measurements for Span #	1		
Deck Thickness	0.417	Left Overhang	1.5
Top of Rail to Bottom of Beam	4.04	Right Overhang	1.5

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.75ft	Timber Joists 11 1/2 in H x 6 in W
2	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
3	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
4	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
5	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
6	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
7	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
8	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
9	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
10	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
11	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
12	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
13	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
14	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
15	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
16	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
17	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
18	Timber (Rectangular)	1.25ft	Timber Joists 11 1/2 in H x 6 in W
19	Timber (Rectangular)	ft	Timber Joists 11 1/2 in H x 6 in W

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Title	Description
TYPICAL SECTION	TIMBER JOISTS

Bridge No:	Drawn By:	Date:	File Name:
910247	CLS	06/03/2008	S0234000586

Bridge Inspection Field Sketch

Bent #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	26ft Long	0.9583ft Wide	0.9583ft High
Left Overhang	1ft	Lt Cap/Beam Overhang	0.8335ft
Right Overhang	1ft	Rt Cap/Beam Overhang	0.8335ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	8				Vertical
2	Wood or Timber	Pile Bent	8				Vertical
3	Wood or Timber	Pile Bent	8				Vertical
4	Wood or Timber	Pile Bent					Vertical

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Title	Description
PILE DIAGRAM	BENT 1, LOOKING NORTH

Bridge No:	Drawn By:	Date:	File Name:
910247	CLS	06/15/2006	S0234000587

Bridge Inspection Field Sketch

Cap Information			Material Steel			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.04 ft.	1.000 ft.	1.000 ft.	1.750 ft.	1.850 ft.	0.750 ft.	1.333 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Steel	10.7 ft.	0.833 ft.	0.833 ft.	30.00 ft.	Vertical	Yes	No	No	No
2	Steel	11.75 ft.	0.833 ft.	0.833 ft.	30.00 ft.	Vertical	Yes	No	No	No
3	Steel		0.833 ft.	0.833 ft.	30.00 ft.	Vertical	Yes	No	No	No

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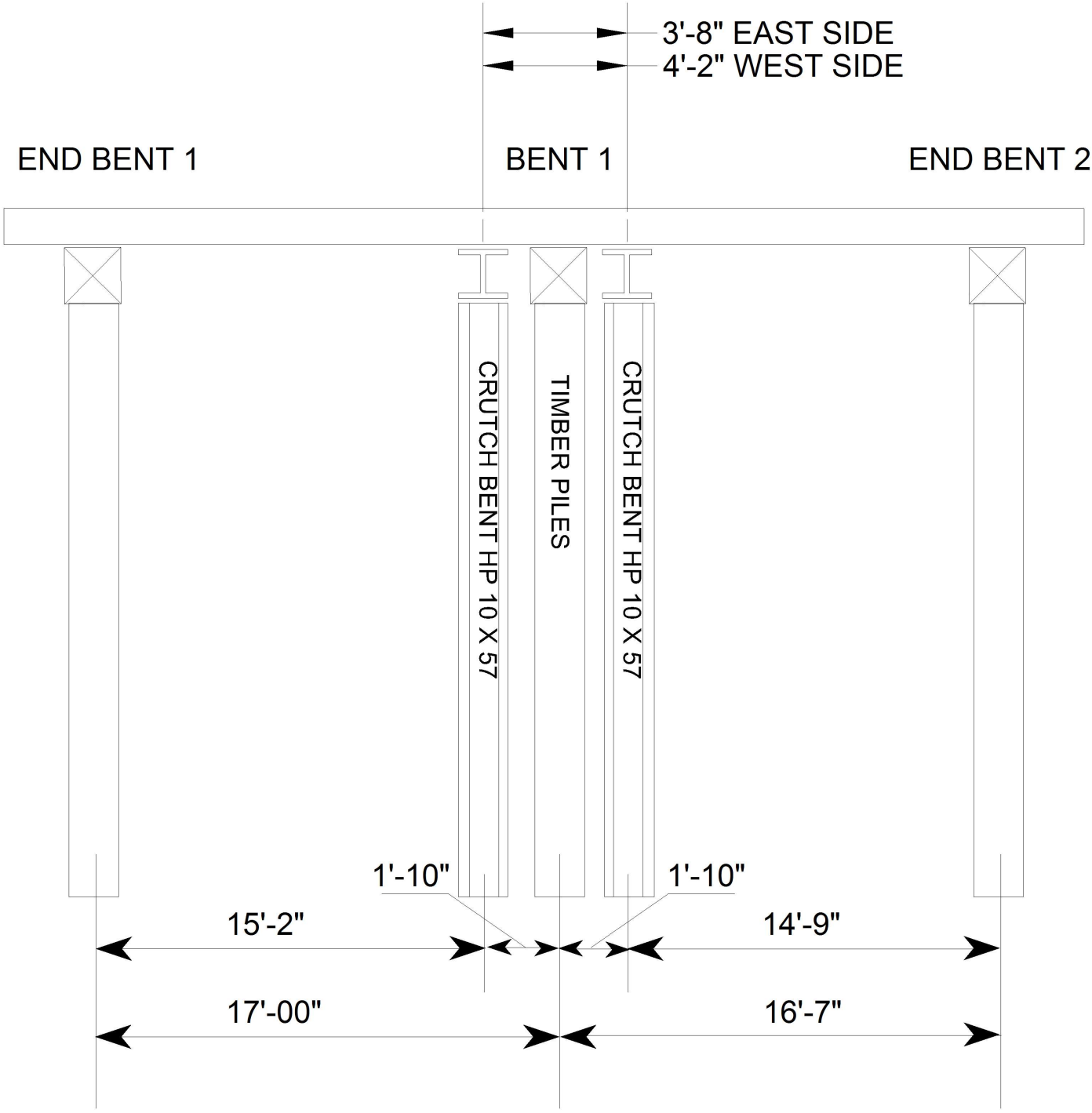
Bent/Abutment #: 1 Similar Bents:

Title	**Description**
CRUTCH BENT	SPAN 1 CRUTCH BENT, LOOKING NORTH

Bridge No: 910247	**Drawn By:** a.d.osborne	**Date:** 6/5/2008	**File Name:** S0010034490

Bridge Inspection Field Sketch



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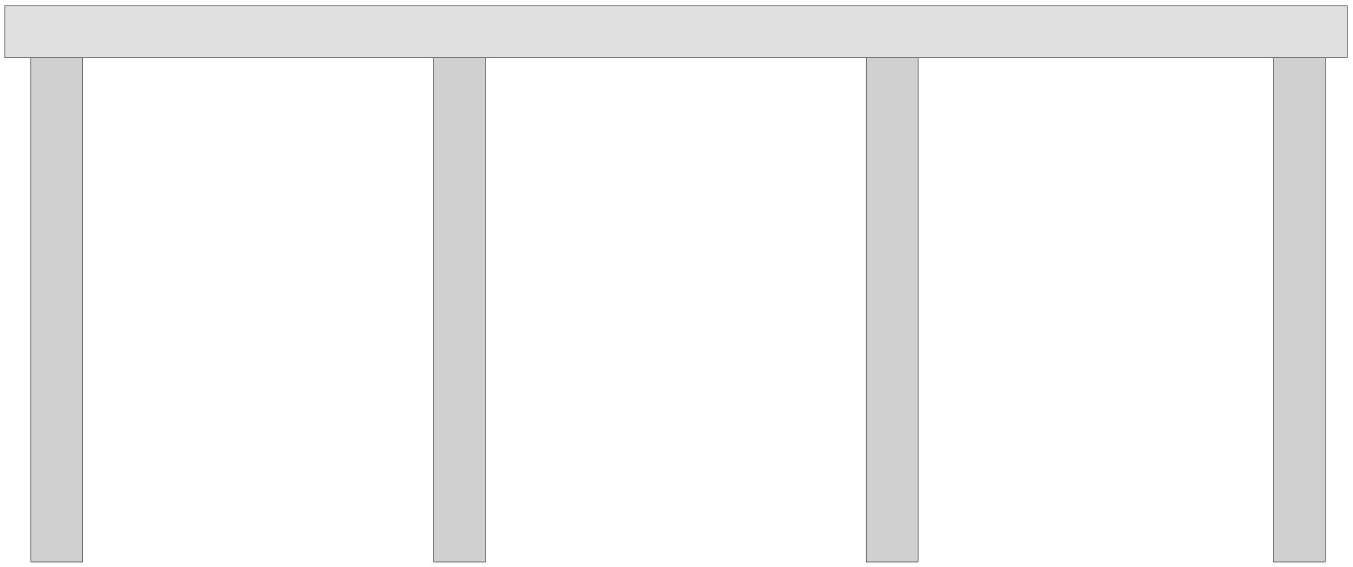
Title	Description
CRUTCH BENT SIDE VIEW	SIDE DIMENSIONS, LOOKING WEST

Bridge No:	Drawn By:	Date:	File Name:
910247	a.d.osborne	6/5/2008	S0010034491

Bridge Inspection Field Sketch



Cap Information			Material Timber			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
25.840 ft.	.958 ft.	1.000 ft.	1.000 ft.	.920 ft.	.750 ft.	.750 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	7.75 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8.33 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	7.84 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Vertical	Yes	No	No	No

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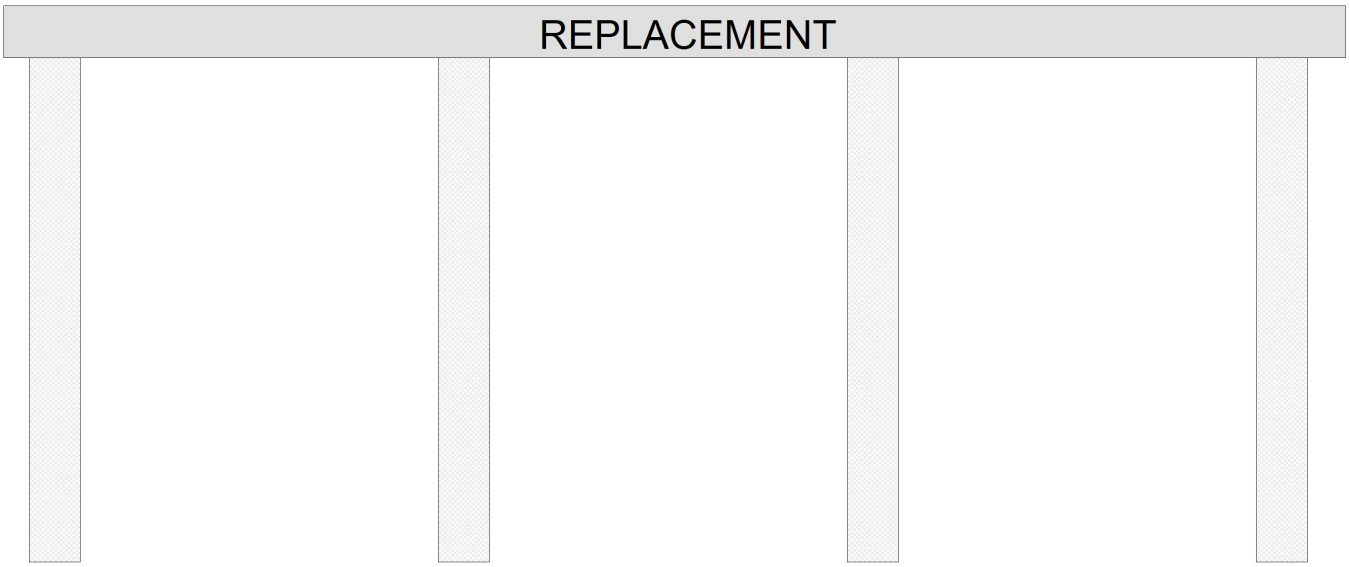
Bent/Abutment #: 1 Similar Bents:

Title	**Description**
END BENT 1 ELEVATION	END BENT 1, LOOKING NORTH

Bridge No: 910247	**Drawn By:** CTP	**Date:** 6/10/2014	**File Name:** S0446000118

Bridge Inspection Field Sketch



Cap Information Material Timber

Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.250 ft.	.979 ft.	1.021 ft.	1.000 ft.	1.250 ft.	.830 ft.	.920 ft.

Subcap Information Material

Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information Material

Length	Width	Height

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Vertical	Yes	No	No	No

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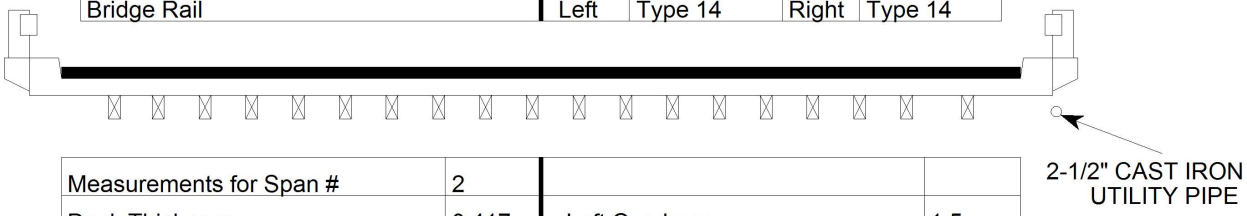
Bent/Abutment #: 2 Similar Bents:

Title	**Description**
END BENT 2 ELEVATION	END BENT 2, LOOKING NORTH

Bridge No: 910247	**Drawn By:** CTP	**Date:** 6/10/2014	**File Name:** S0446000119

Bridge Inspection Field Sketch

Deck Width/Out to Out	27.328ft	Between Rails				25.408ft
Clear Roadway	24ft	Wearing Surface				0.292ft
Median Width		Median Height				
Curb Height		Left	0.5ft	Right	0.5ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	0.96ft	Right	0.96ft	
Top of Rail to Deck/Wearing Surface		Left	2.375ft	Right	2.375ft	
Bridge Rail		Left	Type 14	Right	Type 14	



Measurements for Span #	2		
Deck Thickness	0.417	Left Overhang	1.5
Top of Rail to Bottom of Beam	4.04	Right Overhang	1.5

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.25ft	Timber Joists 11 1/2 in H x 6 in W
2	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
3	Timber (Rectangular)	1.333ft	Timber Joists 11 1/2 in H x 6 in W
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18	Timber (Rectangular)	1.75ft	Timber Joists 11 1/2 in H x 6 in W
19	Timber (Rectangular)	ft	Timber Joists 11 1/2 in H x 6 in W

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Title	**Description**
TYPICAL SECTION, SPAN 2	TIMBER JOISTS

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
910247	FER	8/19/2016	S0342000365

Bridge Inspection Field Sketch

Cap Information			Material Steel			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.000 ft.	1.000 ft.	1.000 ft.	1.5 ft.	1.6 ft.	3.000 ft.	3.000 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Steel	10.60 ft.	1 ft.	1 ft.	30 ft.	Vertical	Yes	No	No	No
2	Steel	12.33 ft.	1 ft.	1 ft.	30 ft.	Vertical	Yes	No	No	No
3	Steel		1 ft.	1 ft.	30 ft.	Vertical	Yes	No	No	No

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Bent/Abutment #: 2 Similar Bents:

Title	**Description**
CRUTCH BENT, SPAN 2	SPAN 2 CRUTCH BENT, LOOKING NO

Bridge No: 910247	**Drawn By:** SHAWN AUSEL	**Date:** 6/22/2018	**File Name:** S0690000022