



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY ROWAN BRIDGE NUMBER 790149 INSPECTION CYCLE 0 YRS
ROUTE SR2132 ACROSS N.PRONG OF CHURCH M.P. 0

LOCATION 0.2 MI. N. JCT. SR1004

SUPERSTRUCTURE STEEL PLANK DECK ON I-BEAMS

SUBSTRUCTURE END&INTBTS:TIMBER CAPS&PILES,BT.PILES CONC.ENC,TIM.BULKHEADS

SPANS 1@17'10 ,1@25'0 ,1@18'4

LONGITUDE 80° 23' 45.35"

LATITUDE 35° 37' 21.43"

INSPECTION DATE 06/12/2014

PRESENT CONDITION FAIR

PRESENT POSTING Y SV 19 TTST 28

PROPOSED POSTING

OTHER SIGNS PRESENT (4) DELINEATORS



SOUTH APPROACH LOOKING NORTH

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>Yes</u>

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
<u>No</u>	WEIGHT LIMIT	<u></u>
<u>No</u>	DELINEATORS	<u></u>
<u>No</u>	NARROW BRIDGE	<u></u>
<u>No</u>	ONE LANE BRIDGE	<u></u>
<u>No</u>	LOW CLEARANCE	<u></u>

BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE: 790149 COUNTY: Rowan DATE: 7/11/2012

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT
THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE
TO KEEP THE BRIDGE OPEN :

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	<u>T</u>	<u>TSC</u>
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	<u>5</u>	<u>TSC 7/23/12</u>
S I & A ITEM 64 OPERATING RATING		
HS <u>01</u> BY: <u>AR</u>		
S I & A ITEM 66 - INVENTORY RATING		
HS <u>01</u> BY: <u>AR</u>		

COMMENTS

Pile 4 at Int. bent 2 supplemented.
Temporary Repair

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

Run Date: 07/15/2014

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	790149		SUFFICIENCY RATING =		22.92	
(8) STRUCTURE NUMBER(FEDERAL)		000000001590149		STATUS =	Functionally Obsolete		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31021320					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION			CODE
(3) COUNTY CODE 159	(4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - N.PRONG OF CHURCH				(104)HIGHWAY SYSTEM	Is not on NHS		0
(7) FACILITY CARRIED SR2132				(26) FUNCTIONAL CLASS -	Local		09
(9) LOCATION 0.2 MI. N. JCT. SR1004				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT 35° 37' 21.43"	(17)LONG 80° 23' 45.35"			(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions		T
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network		0
				(20) TOLL	On Free Road		3
STRUCTURE TYPE AND MATERIAL				(31) MAINTAIN -	State Highway Agency		01
(43) STRUCTURE TYPE MAIN: Steel				(22) OWNER -	State Highway Agency		01
TYPE - Stringer Multibeam or Girder	CODE	302		(37) HISTORICAL SIGNIFICANCE -	Not Eligible		5
(44) STRUCTURE TYPE APPR :				CONDITION			
TYPE -	CODE	000		(58) DECK			7
(45) NUMBER OF SPANS IN MAIN UNIT		3		(59) SUPERSTRUCTURE			6
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE			5
(107)DECK STRUCTURE TYPE - 6	CODE			(61) CHANNEL & CHANNEL PROTECTION			7
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS			N
(A) TYPE OF WEARING SURFACE -	CODE			LOAD RATING AND POSTING			
(B) TYPE OF MEMBRANE -	CODE			(31) DESIGN LOAD	Unknown		0
(C) TYPE OF DECK PROTECTION -	CODE			(63) OPERATING RATING METHOD -	Load Factor		1
				(64) OPERATING RATING -	HS-1		1
(27) YEAR BUILT		1974		(65) INVENTORY RATING METHOD -	Load Factor		1
(106)YEAR RECONSTRUCTED				(66) INVENTORY RATING -	HS-1		1
(42) TYPE OF SERVICE : ON - Highway				(70) BRIDGE POSTING -	Posting Required		1
UNDER - Waterway	CODE	15		(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		DESCRIPTION -	Posted for Load		
(29) AVERAGE DAILY TRAFFIC		760		APPRAISAL			
(30) YEAR OF ADT 2012	(109) TRUCK ADT PCT	6%		(67) STRUCTURAL EVALUATION			3
(19) BYPASS OR DETOUR LENGTH		2 MI		(68) DECK GEOMETRY			4
GEOMETRIC DATA				(69) UNDERCLEARANCES,VERTI & HORIZ			N
(48) LENGTH OF MAXIMUM SPAN		25 FT		(71) WATERWAY ADEQUACY			7
(49) STRUCTURE LENGTH		61 FT		(72) APPROACH ROADWAY ALIGNMENT			8
(50)CURB OR SIDEWALK: LEFT .25 FT RIGHT .25 FT				(36) TRAFFIC SAFETY FEATURES			0000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT		(113)SCOUR CRITICAL BRIDGES			U
(52) DECK WIDTH OUT TO OUT		24.083 FT		PROPOSED IMPROVEMENTS			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		20 FT		(75) TYPE OF WORK -			CODE
(33) BRIDGE MEDIAN - No Median	CODE	0		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(34) SKEW 0°	(35) STRUCTURE FLARED	0		(94) BRIDGE IMPROVEMENT COST			
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(95) ROADWAY IMPROVEMENT COST			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24 FT		(96) TOTAL PROJECT COST			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(114)FUTURE ADT 1520	(115) YEAR FUTURE ADT 2025		
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		INSPECTIONS			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		(90) INSPECTION DATE			06/12/2014
NAVIGATION DATA				(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0		A) FRACTURE CRIT DETAIL -	NO	A)	
(111)PIER PROTECTION -	CODE			B) UNDERWATER INSP -	NO	B)	
(39) NAVIGATION VERTICAL CLEARANCE		0		C) OTHER SPECIAL INSP	NO	C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT			SCOUR			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 07/15/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROWAN	9	1	790149	61	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR2132	N.PRONG OF CHURCH

LOCATED :	BRIDGE NAME :	CITY :
0.2 MI. N. JCT. SR1004		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	760 2012	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1974	BMU	6.632168		Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
			TAN	90	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		12 FT		1		FT

SUPERSTRUCTURE :	STEEL PLANK DECK ON I-BEAMS
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SUBSTRUCTURE :	END&INTBTS:TIMBER CAPS&PILES,BT.PILES CONC.ENC,TIM.BULKHEADS
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SPANS :	1@17'10 ,1@25'0 ,1@18'4
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BEAMS OR GIRDERS :	13 LINES OF W12X27 I-BEAMS @ 1'11 CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
STL.DK,4 "AWS		24.083 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	24.5 FT	LT .25 FT RT .25 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	IntBm(SpA)	SV 19	TTST 28	DATE	11/05/2008	

SYSTEM :	GREEN LINE ROUTE :
Secondary S.R. Route	N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection - Contract

BRIDGE NO. 790149

COUNTY ROWAN

ROUTE SR2132

OVER N.PRONG OF CHURCH

STRUCTURE TYPE STEEL PLANK DECK ON I-BEAMS

ROUTE ORIENTATION S - N

SPANS 1@17'10 ,1@25'0 ,1@18'4

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

INSPECTION ITEM				ITEM 61			
DECK ITEMS			GRADES	45. CHANNEL & CHANNEL PROT.			
1. WEARING SURFACE			F	a. WATERWAY			G
				b. ALIGNMENT			G
				c. SCOUR			G
				d. SLOPE PROT., RIP-RAP, DIKES, ETC.			
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE			50. APPROACH ROADWAY CONDITION			G
	b. TIMBER			51. APPROACH SLABS			
	c. STEEL PLANK	3	G	52. PAINT SYSTEM CODE A			F
	d. OPEN GRID			53. UTILITIES			
3. RAILING	a. CONCRETE			54. RESPONSE TO LIVE LOAD			G
	b. TIMBER			55. ESTIMATED REMAINING LIFE			12
	c. ALUMINUM						
	d. STEEL		F				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			F				
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED			NO
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER			61. PROMPT-ACTION NOTICE ISSUED			NO
	b. MISC PREFAB			62. PRESENTLY POSTED			YES
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			9
	d. STANDARD JOINTS			64. TOTAL SNOOPER INSP. TIME (HRS)			0
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			G				
				70. SI&A GENERAL CONDITION RATINGS			
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				a. DECK ITEM 58			7
10. LONGITUDINAL BEAMS OR GIRDERS			F	b. SUPERSTRUCTURE ITEM 59			6
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE ITEM 60			5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT. ITEM 61			7
13. END DIAP'S, CURTAIN WALLS, & CONN'S							
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS			
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			G	a. WATERWAY ADAQUACY			7
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT			8
17. MOVABLE SPAN MACHINERY							
				72. FIELD SCOUR EVALUATION			O
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)							
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		F	USE OF INSP. ACCESSIBILITY EQUIPMENT			
	b. PILES, POST, SILLS, & BRACING		F	SNOOPER (CODE S, 4, OR N) HRS			NO
	c. BULKHEADS, WING'S, & TIE BACKS		F	LADDER			NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS			BUCKET TRUCK			NO
	b. ABUT. & BENT COL'S BREASTWALLS			BOAT			NO
	c. ABUT. & INT. BENT PILES			OTHER			NO
	d. BACKWALLS, WING'S, RETAIN. WALLS						
	e. ABUT. & BENT FOOTINGS & SILLS		G				
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			SPECIAL INSPECTION REQUESTED FOR			
	b. PILES, BRACING, AND BULKHEADS						
38. FOUNDATION PILES TYPE MATERIAL				NOTE			
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)							
40. FENDER SYSTEMS				80. INSPECTED BY:			
41. DRIFT			F	81. REVIEWED BY:			

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
Team Leader Ray Fredette			
Assisted By GLT			
Item No.	Grade		
1	F	WEARING SURFACE	
		ASPHALT WEARING SURFACE SPAN 3: LONGITUDINAL CRACKING UP TO 1/8" WIDE (SIMILAR ALL SPANS) ASPHALT WEARING SURFACE SPAN 3: TRANSVERSE CRACKING UP TO 1/4" WIDE (SIMILAR ALL SPANS) ASPHALT WEARING SURFACE OVER BENT 2: TRANSVERSE CRACKING UP TO 1/4" WIDE OVER JOINT (SIMILAR AT JOINT OVER BENT 1) ASPHALT WEARING SURFACE SPAN 3: TRANSVERSE CRACKING AT MID SPAN UP TO 1/8" WIDE ASPHALT WEARING SURFACE SPAN 2: MAP CRACKING UP TO 1/4" WIDE (SIMILAR ALL SPANS) -	
2c	G	STEEL PLANK FLOOR	
		DECK PLANKING SUPPORT ANGLE ON RIGHT SIDE AT BENT 2 DISPLACED SCATTERED AREAS OF SURFACE CORROSION ON BOTTOM OF PLANKING -	
3d	F	STEEL RAILING	
		LEFT SIDE RAIL SPAN 3: CORROSION ON TOP FACE RIGHT SIDE RAIL END SECTION NORTHEAST CORNER: IMPACT DAMAGE RIGHT SIDE RAIL POST SPAN 2 AT BENT 2: DAMAGE ADJACENT TO TOP OF CURB -	
4	F	CURBS	
		RIGHT SIDE CURB NORTHEAST CORNER: IMPACT DAMAGE RIGHT SIDE CURB SPAN 3: CORROSION ON TOP FACE AT CONNECTION BOLTS (SIMILAR THROUGHOUT) -	
10	F	LONGITUDINAL BEAMS	
		BEAM 5 AT BENT 2 SPAN 2: PAINT LOSS AND CORROSION ON BOTTOM FLANGE (SIMILAR SEVERAL LOCATIONS THROUGHOUT) -	
10A	NO	NO CURVED GIRDERS	
		-	
52	F	PAINT SYSTEM	
		THERE ARE SPOT AREAS OF PAINT LOSS AND CORROSION ON BEAMS ON ALL SPANS -	
35a	F	ABUTMENTS AND BENTS	
		TIMBER CAP AT BENT 1 WEST END: AREA OF DECAY 2 " X 2" WITH 13" PENETRATION WEATHERED WITH LONGITUDINAL CHECK CRACKING SIMILAR THROUGHOUT -	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
Team Leader Ray Fredette			
Assisted By GLT			
Item No.	Grade		
35b	F	TIMBER PILES TIMBER PILES ARE WEATHERED WITH CHECK CRACKING AND AREAS OF DELAMINATION. TIMBERS SOFT ALONG BASE AT GROUND LINE. CROSS BRACE AT BOTTOM OF PILE 5 AT BENT 1: AREA OF DECAY ON TOP OF BOARD 18 " X 3 " X 3" PILE 5 AT BENT 2: PILE ADDED AS TEMPORARY REPAIR -	
35c	F	TIMBER BULKHEADS BULKHEAD EXTENSION AT EAST AND ABUTMENT 1: AREA OF SPLINTERING AND MISSING SECTION ON BOTTOM OF MIDDLE BOARD BULKHEAD EXTENSION AT EAST END OF ABUTMENT 1: AREA OF SPLINTERING AND MISSING SECTION ON BOTTOM OF MIDDLE BOARD BULKHEAD EXTENSION AT EAST END ABUTMENT 1: AREA OF DECAY 18 " X 2 " X 3" BULKHEAD EXTENSION AT SOUTHEAST CORNER: DECAY ON END OF BOARDS WITH UP TO 8 INCHES PENETRATION BULKHEAD EXTENSION AT SOUTHWEST CORNER: 2 AREAS OF DECAY UP TO 6 " X 3 " X 2" BULKHEAD AT NORTHWEST CORNER: AREA OF DECAY 6 " X 2 " X 3" BULKHEAD AT NORTHEAST CORNER: AREA OF DECAY 4 " X 2 " X 2" BULKHEAD EXTENSION AT NORTHEAST CORNER TOP BOARD LOOSE AND DISPLACED FROM POST -	
36e	G	CONCRETE SILL TOP OF THE SILL IS VISIBLE AT PILE 1 BENT 2. NO PROBLEMS NOTED -	
41	F	DRIFT THERE IS A LARGE TREE IN THE MIDDLE OF THE UPSTREAM CHANNEL -	
45a	G	WATERWAY THE MAIN FLOW IS UNDER SPAN 2 WITH SILT BUILDUP ALONG BOTH INTERMEDIATE BENTS. -	
45d		CHANNEL SLOPE PROTECTION THERE IS ADEQUATE VEGETATION ON BOTH SIDES OF THE UPSTREAM AND DOWNSTREAM CHANNELS -	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader Ray Fredette			
Assisted By GLT			
Item No.	Grade		
50	G	APPROACH ROADWAY DELINEATOR SIGN TWISTED AT SOUTH APPROACH ASPHALT AT NORTH APPROACH: TRANSVERSE CRACKING UP TO 1/8" WIDE ASPHALT AT NORTH APPROACH: LONGITUDINAL CRACKING UP TO 1/8" WIDE -	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 790149

County ROWAN

Date: 06/12/2014

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	160	CRACKING IN ASPHALT WEARING SURFACE ALL SPANS	
3304	Maintain/Replace Timber Superstructure Components	LF	2	THERE IS AN AREA OF DECAY ON CROSS BRACE AT THE BOTTOM OF PILE 5 AT BENT 1	
3322	Maint to Steel Handrail	LF	120	IMPACT DAMAGE AT NORTHEAST CORNER AND CORROSION ON RAIL AND CURB SIMILAR BOTH SIDES	
3346	Repair / Maintain Timber Wings & Blkhds	SF	20	THERE ARE SEVERAL AREAS OF DECAY ON THE BULKHEADS AT BOTH ABUTMENTS, LOOSE BOARDS AT SOME OF THE WINGWALLS IN DECAY WITH PENETRATION ON THE END OF SEVERAL BOARDS AT THE BULKHEAD EXTENSION'S AT BOTH ABUTMENTS	
3366	Drift and Debris Removal	HR	8	DRIFT IN UPSTREAM CHANNEL	
5603	Partial Cleaning and Painting of Structural Steel	SF	500	SEVERAL AREAS OF CORROSION AND PAINT LOSS ON BEAMS	

Key



Priority Maintenance Item



Critical Finding Item



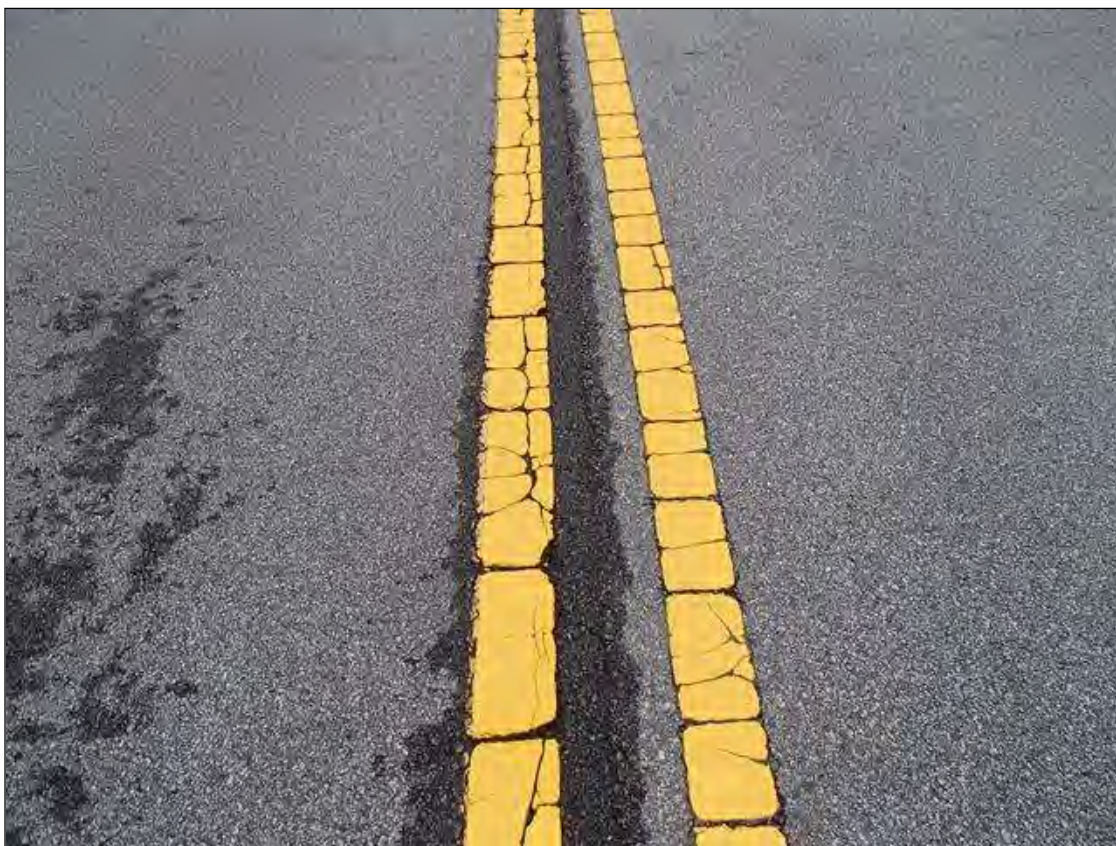
Priority Maintenance Level Not Determined



DELINEATOR SIGN TWISTED AT SOUTH APPROACH



ASPHALT AT NORTH APPROACH: TRANSVERSE CRACKING UP TO 1/8" WIDE



ASPHALT AT NORTH APPROACH: LONGITUDINAL CRACKING UP TO 1/8" WIDE



ASPHALT WEARING SURFACE SPAN 3: LONGITUDINAL CRACKING UP TO 1/8" WIDE (SIMILAR ALL SPANS)



ASPHALT WEARING SURFACE OVER BENT 2: TRANSVERSE CRACKING UP TO 1/4" WIDE OVER JOINT
(SIMILAR AT JOINT OVER BENT 1)



ASPHALT WEARING SURFACE SPAN 3: TRANSVERSE CRACKING AT MID SPAN UP TO 1/8" WIDE



ASPHALT WEARING SURFACE OVER JOINT AT BENT 2: TRANSVERSE CRACKING UP TO 1/8" WIDE



ASPHALT WEARING SURFACE SPAN 2: MAP CRACKING UP TO 1/4" WIDE (SIMILAR ALL SPANS)



LEFT SIDE RAIL SPAN 3: CORROSION ON TOP FACE



RIGHT SIDE RAIL END SECTION NORTHEAST CORNER: IMPACT DAMAGE



RIGHT SIDE CURB NORTHEAST CORNER: IMPACT DAMAGE



RIGHT SIDE CURB SPAN 3: CORROSION ON TOP FACE AT CONNECTION BOLTS (SIMILAR THROUGHOUT)



RIGHT SIDE RAIL POST SPAN 2 AT BENT 2: DAMAGE ADJACENT TO TOP OF CURB



BULKHEAD EXTENSION AT EAST END OF ABUTMENT 1: AREA OF SPLINTERING AND MISSING SECTION ON BOTTOM OF MIDDLE BOARD



BULKHEAD EXTENSION AT EAST END ABUTMENT 1: AREA OF DECAY 18 " X 2 " X 3"



BULKHEAD EXTENSION AT SOUTHEAST CORNER: DECAY ON END OF BOARDS WITH UP TO 8 INCHES PENETRATION



BULKHEAD EXTENSION AT SOUTHWEST CORNER: 2 AREAS OF DECAY UP TO 6" X 3" X 2"



TIMBER CAP AT BENT 1 WEST END: AREA OF DECAY 2" X 2" WITH 13" PENETRATION



CROSS BRACE AT BOTTOM OF PILE 5 AT BENT 1: AREA OF DECAY ON TOP OF BOARD 18 " X 3 " X 3"



BEAM 5 AT BENT 2 SPAN 2: PAINT LOSS AND CORROSION ON BOTTOM FLANGE (SIMILAR SEVERAL LOCATIONS THROUGHOUT)



PILE 5 AT BENT 2: PILE ADDED AS TEMPORARY REPAIR



BULKHEAD AT NORTHWEST CORNER: AREA OF DECAY 6 " X 2 " X 3"



BULKHEAD AT NORTHEAST CORNER: AREA OF DECAY 4 " X 2 " X 2"



BULKHEAD EXTENSION AT NORTHEAST CORNER TOP BOARD LOOSE AND DISPLACED FROM POST



DRIFT IN UPSTREAM CHANNEL



DRIFT IN UPSTREAM CHANNEL

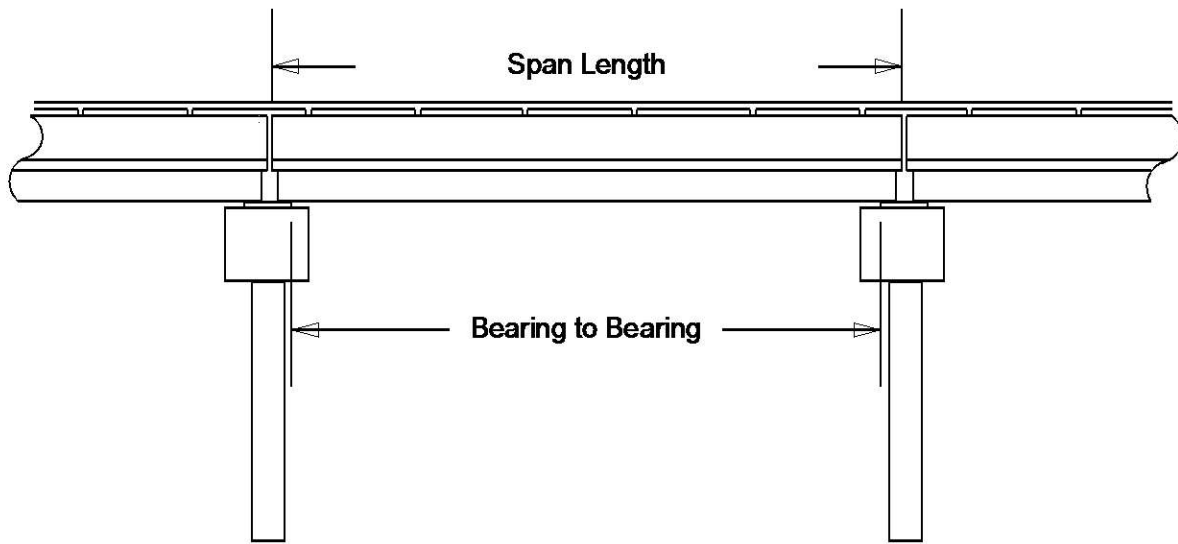


DECK PLANKING SUPPORT ANGLE ON RIGHT SIDE AT BENT 2 DISPLACED

Structure Data Worksheet

Spans

County: ROWAN Structure No: 790149 Date: 06/12/2014 Inspected By: RJF



Span No	Span Length	Bearing to Bearing	Comments
1	17.833	17.333	
2	25.0	24.667	
3	18.333	17.667	NBIS BRIDGE LENGTH 58.5'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 790149 County: ROWAN Date: 06/12/2014 By: RJF

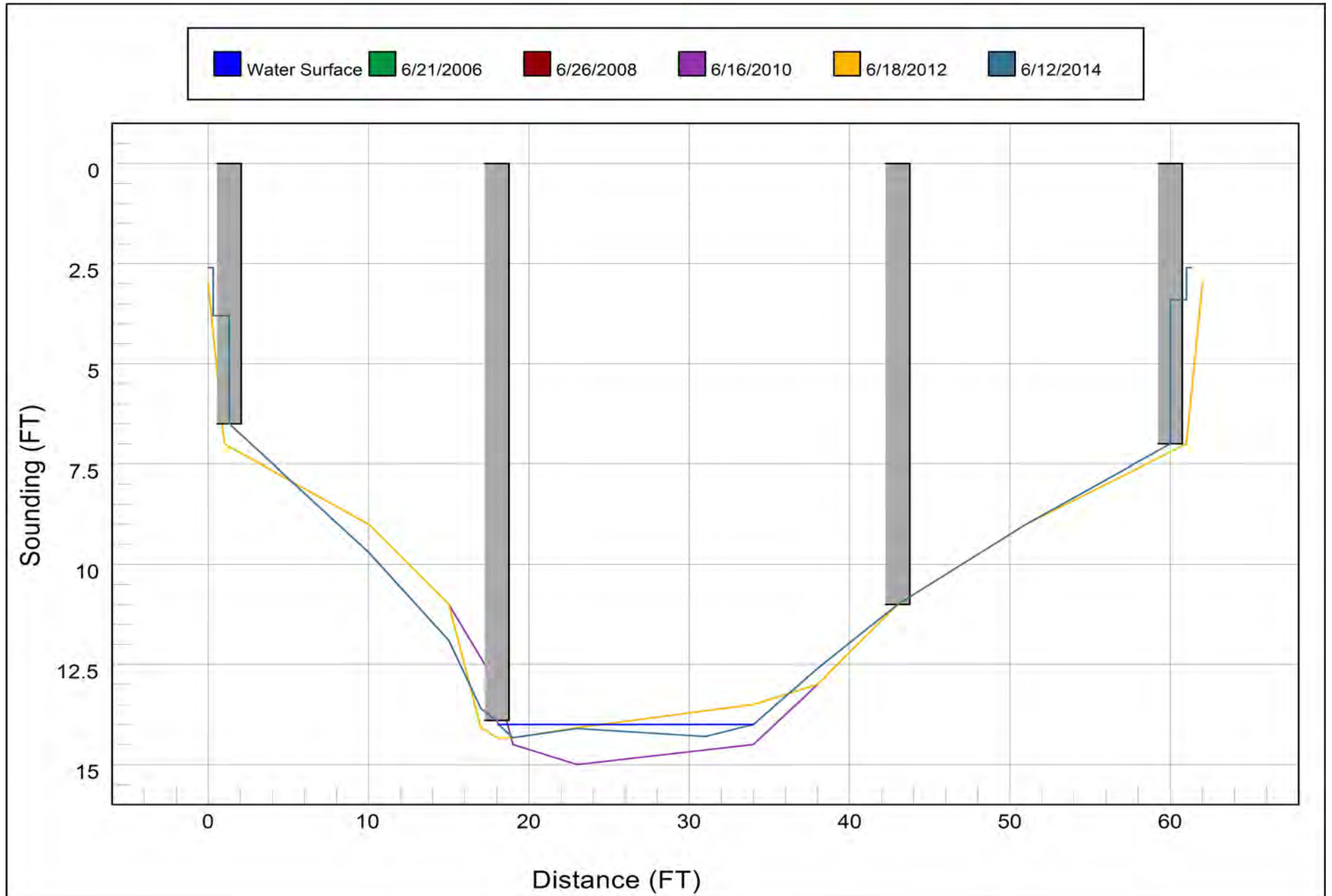
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 10 Location of Highwater Mark: DEBRIS ON BANK

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.6	TOP BULKHEAD			
0.3	2.6	TOP BULKHEAD			
0.31	3.8	Top of Cap			
1.3	3.8	Top of Cap			
1.31	6.5	ABUTMENT 1	1.31	6.3	
10	9.7				
15	11.9				
17	13.6				
18	13.9	BENT 1	18	11.6	
18.1	14	Water Surface/Water Edge (WSWE)			
19	14.33				
23	14.1				
31	14.3				
34	14	Water Surface/Water Edge (WSWE)			
38	12.6				
43	11	BENT 2	43	13.9	
51	9				
60	7	ABUTMENT 2	60	7.6	
60.01	3.4	Top of Cap			
61	3.4	Top of Cap			
61.01	2.6	TOP BULKHEAD			
61.31	2.6	TOP BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	20ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

25 FEET NORTH OF THE BRIDGE

SKETCH UPDATED 6/12/14 RJF

MEASUREMENTS VERIFIED BY DH 6/18/2012

Title

APPROACH ROADWAY SKETCH

Description

APPROACH ROADWAY SKETCH

Bridge No: 790149

Drawn By: GDP

Date: 06/26/08

File Name: S0066001396

Bridge Inspection Field Sketch

Deck Width/Out to Out	24.083ft	Between Rails	24.5ft
Clear Roadway	24ft	Wearing Surface	0.333ft
Median Width		Median Height	
Curb Height		Left .5ft	Right .5ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left 1ft	Right 1ft
Top of Rail to Deck/Wearing Surface		Left 2.417ft	Right 2.417ft
Bridge Rail		Left Type 23	Right Type 23



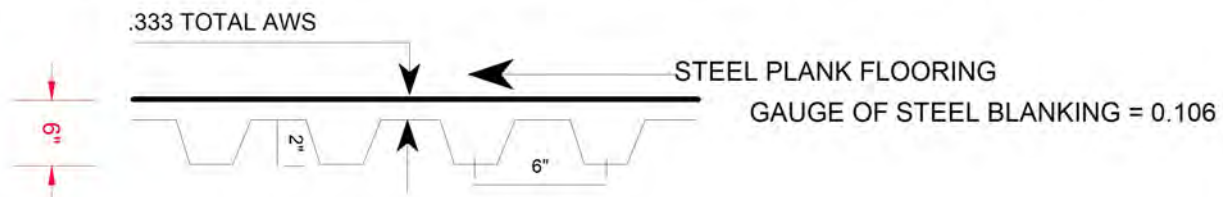
Measurements for Span #	1		
Deck Thickness	.123	Left Overhang	.542
Top of Rail to Bottom of Beam	3.917	Right Overhang	.542

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	1.917ft	
2	Steel I Beam	1.917ft	
3	Steel I Beam	1.917ft	
4	Steel I Beam	1.917ft	
5	Steel I Beam	1.917ft	
6	Steel I Beam	1.917ft	
7	Steel I Beam	1.917ft	
8	Steel I Beam	1.917ft	
9	Steel I Beam	1.917ft	
10	Steel I Beam	1.917ft	
11	Steel I Beam	1.917ft	
12	Steel I Beam	1.917ft	
13	Steel I Beam	ft	

BEAMS: SPAN "A" - 1ft HIGH X .333ft WIDE X .02ft FLANGE & WEB

SPAN "B" - 1ft HIGH X .542ft WIDE X .031ft FLANGE & WEB

SPAN "C" - 1ft HIGH X .417ft WIDE X .031ft FLANGE & WEB WITH TAPERED FLANGE



SKETCH UPDATED 6/12/14 RJF

MEASUREMENTS VERIFIED BY DH 6/18/2012

Title		Description	
STRUCTURE DATA SKETCH		STRUCTURE DATA SKETCH	
Bridge No:	790149	Drawn By:	GDP
Date:	06/26/08	File Name:	S0066001397

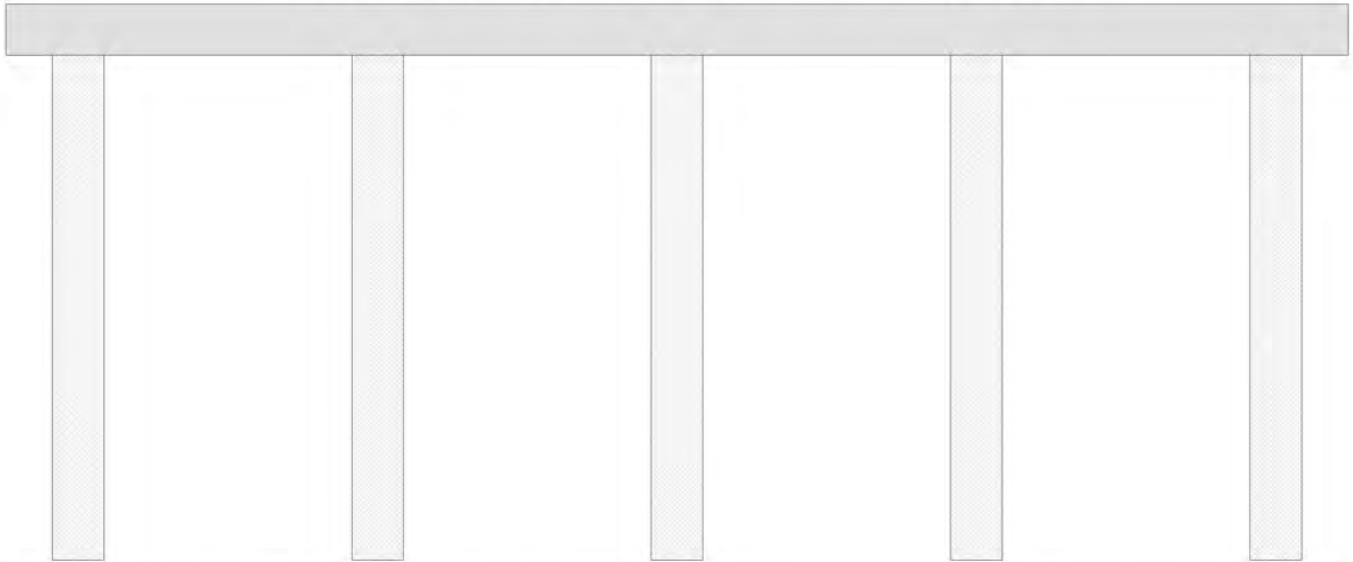
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.300 ft.	1.01 ft.	.99 ft.	2.000 ft.	1.700 ft.	1.800 ft.	1.800 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height	SILL NOT VISIBLE AT TIME OF INSPECTION							
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	5.65 ft.	1 ft.	.96 ft.		Vertical	No	No	No	No
2	Timber	5.65 ft.	1 ft.	.96 ft.		Vertical	No	No	No	No
3	Timber	5.65 ft.	1 ft.	.96 ft.		Vertical	No	No	No	No
4	Timber	5.65 ft.	1 ft.	.96 ft.		Vertical	No	No	No	No
5	Timber		1 ft.	.96 ft.		Vertical	No	No	No	No
ABUTMENT 1 SKETCH UPDATED 6/12/14 RJF MEASUREMENTS VERIFIED BY DH 6/18/2012										
Bent/Abutment #: 1			Similar Bents:							

Title			Description		
PILE DIAGRAM END BENT # 1			PILE DIAGRAM END BENT # 1		
Bridge No: 790149	Drawn By: GDP	Date: 06/26/08	File Name: S0066001398		

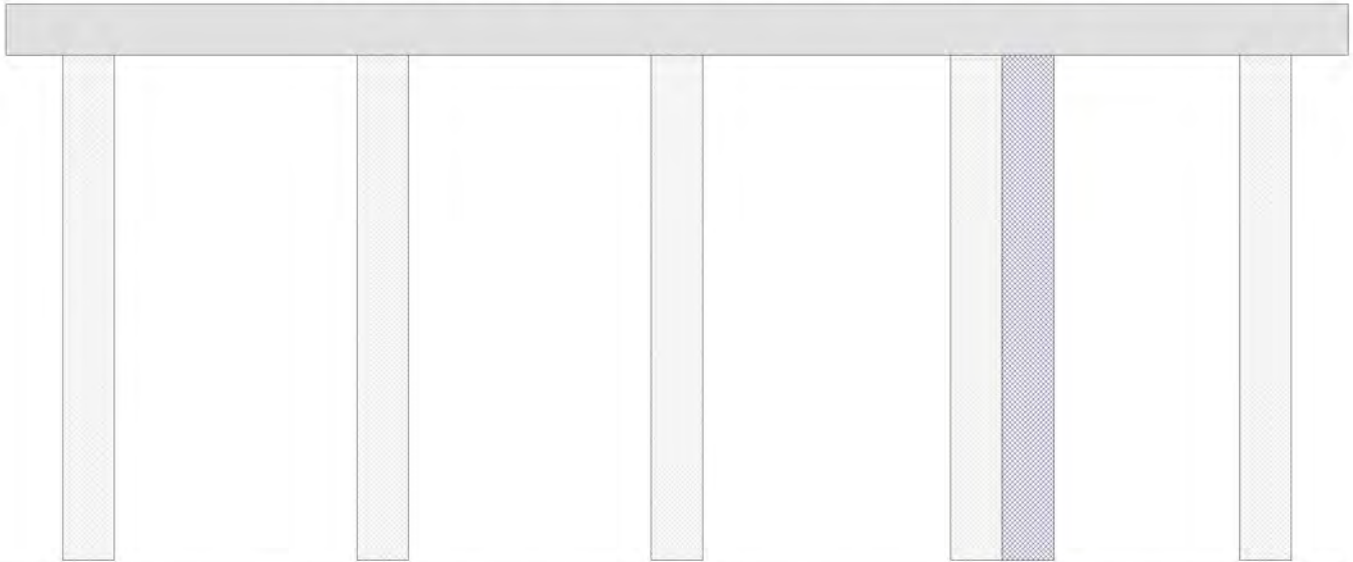
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.000 ft.	1.010 ft.	.990 ft.	1.400 ft.	1.400 ft.	1.6 ft.	1.600 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height	SILL NOT VISIBLE AT TIME OF INSPECTION							
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	5.8 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	5.8 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	5.8 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	5.8 ft.	1 ft.			Vertical	No	No	No	No
5	Timber		1 ft.			Vertical	No	No	No	No
BENT 1 SKETCH UPDATED 6/12/14 RJF MEASUREMENTS VERIFIED BY DH 6/18/2012										
Bent/Abutment #: 1			Similar Bents:							

Title		Description	
PILE DIAGRAM PIER # 1		PILE DIAGRAM PIER # 1	
Bridge No: 790149	Drawn By: GDP	Date: 06/26/08	File Name: S0066001399

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.
26.000 ft.	1.010 ft.	.990 ft.	1.600 ft.	1.600 ft.	1.500 ft.	1.500 ft.

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

Sill Information			Material			
Length	Width	Height	SILL VISIBLE ONLY AT PILE 1			

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	5.7 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	5.7 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	5.8 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	1 ft.	1 ft.			Vertical	No	No	No	No
5	Timber	4.6 ft.	1 ft.			Vertical	No	Yes	No	No
6	Timber		1 ft.			Vertical	No	No	No	No

BENT 2

SKETCH UPDATED 6/12/14 RJF

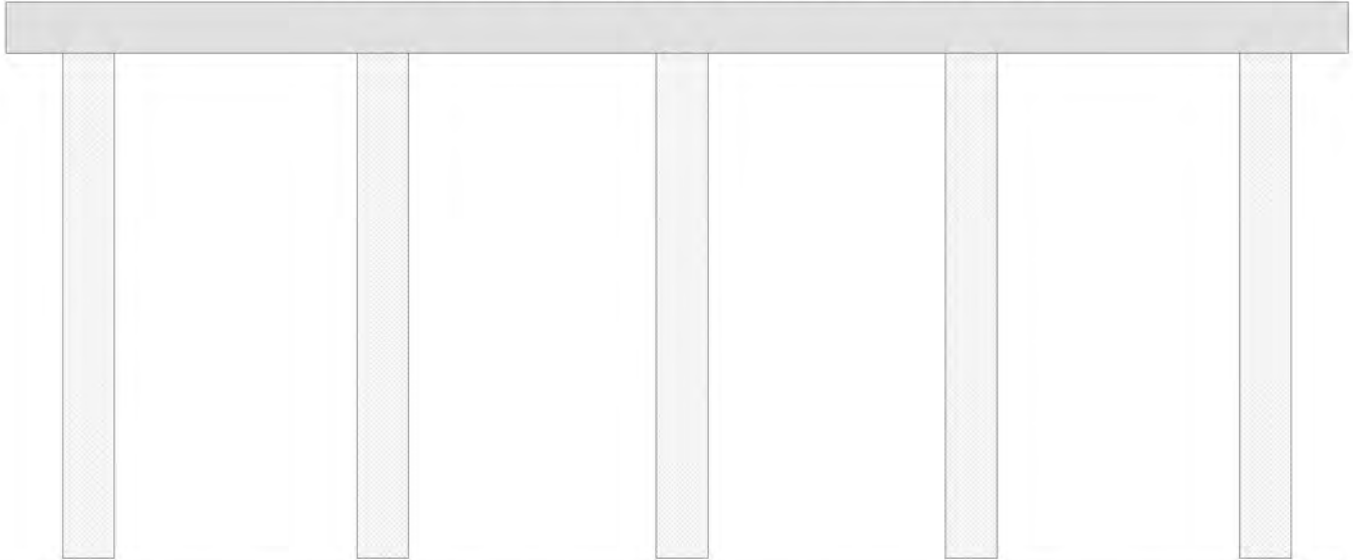
MEASUREMENTS VERIFIED BY DH 6/18/2012

Bent/Abutment #: 2	Similar Bents:
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Title	Description
PILE DIAGRAM PIER # 2	PILE DIAGRAM PIER # 2

Bridge No: 790149	Drawn By: GDP	Date: 06/26/08	File Name: S0066001400
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Bridge Inspection Field Sketch

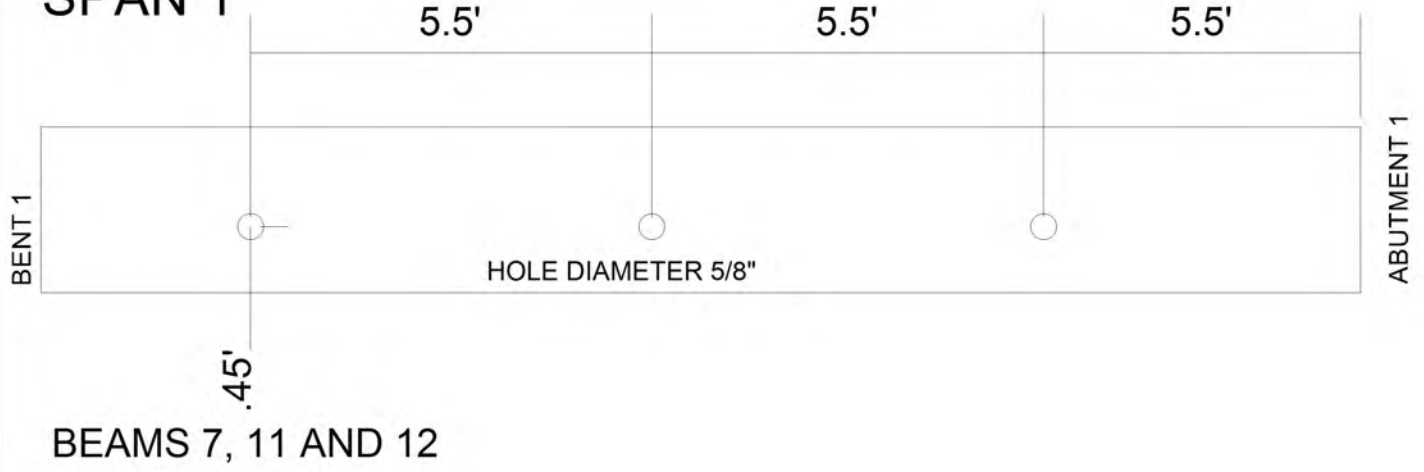


Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.000 ft.	1.010 ft.	.990 ft.	1.600 ft.	1.600 ft.	1.600 ft.	1.600 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height	SILL NOT VISIBLE AT TIME OF INSPECTION							
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	5.7 ft.	1 ft.	1 ft.		Vertical	No	No	No	No
2	Timber	5.8 ft.	1 ft.	1 ft.		Vertical	No	No	No	No
3	Timber	5.6 ft.	1 ft.	1 ft.		Vertical	No	No	No	No
4	Timber	5.7 ft.	1 ft.	1 ft.		Vertical	No	No	No	No
5	Timber		1 ft.	1 ft.		Vertical	No	No	No	No
ABUTMENT 2 SKETCH UPDATED 6/12/14 RJF MEASUREMENTS VERIFIED BY DH 6/18/2012										
Bent/Abutment #: 2			Similar Bents:							

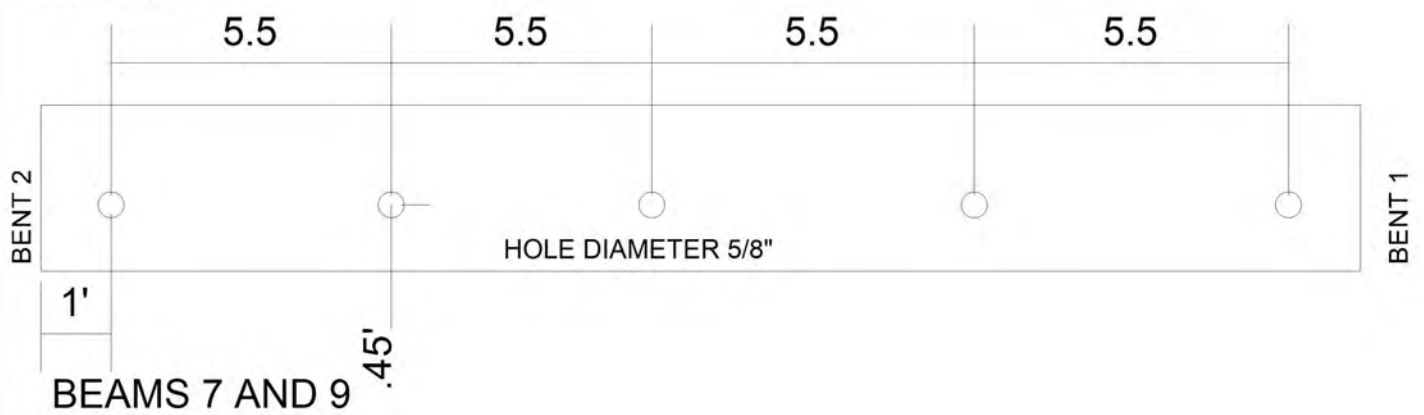
Title		Description	
PILE DIAGRAM END BENT # 2		PILE DIAGRAM END BENT # 2	
Bridge No: 790149	Drawn By: GDP	Date: 06/26/08	File Name: S0066001401

Bridge Inspection Field Sketch

SPAN 1



SPAN 2



Title
HOLES IN BEAMS

Description
HOLES

Bridge No: 790149

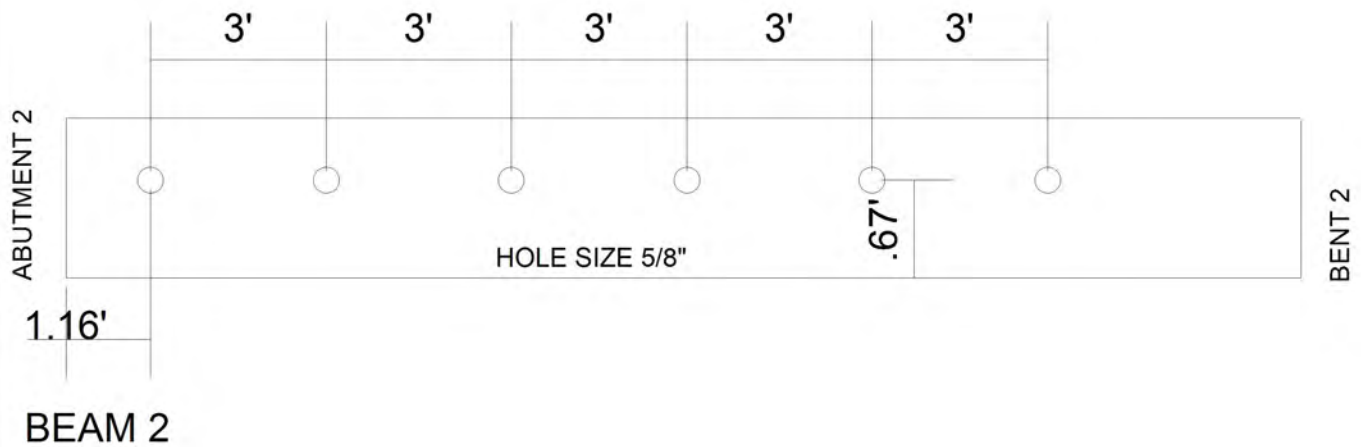
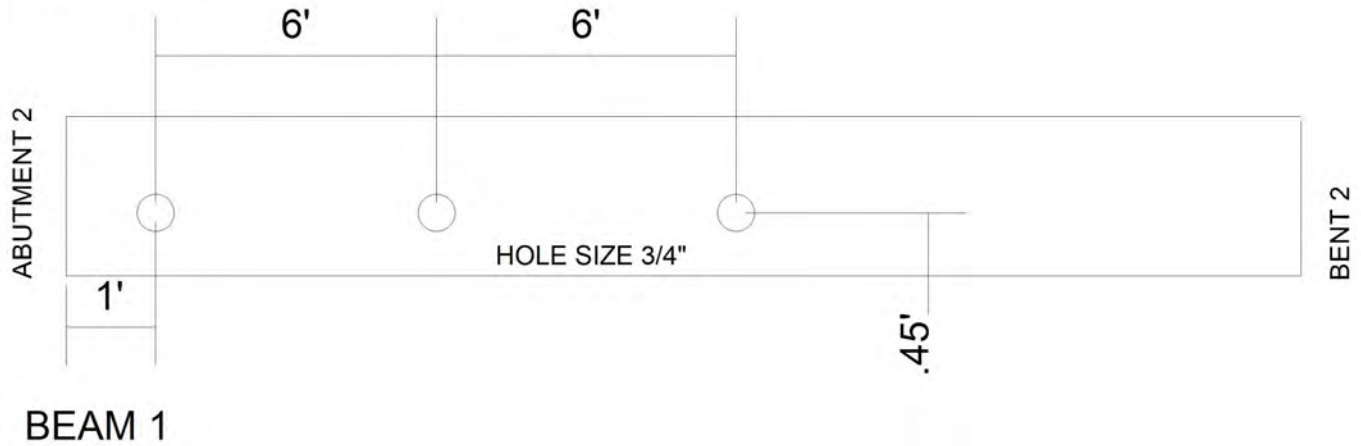
Drawn By: RJF

Date: 6/18/2014

File Name: S0598000034

Bridge Inspection Field Sketch

SPAN 3



Title

HOLES IN BEAMS 2

Description

Holes

Bridge No: 790149

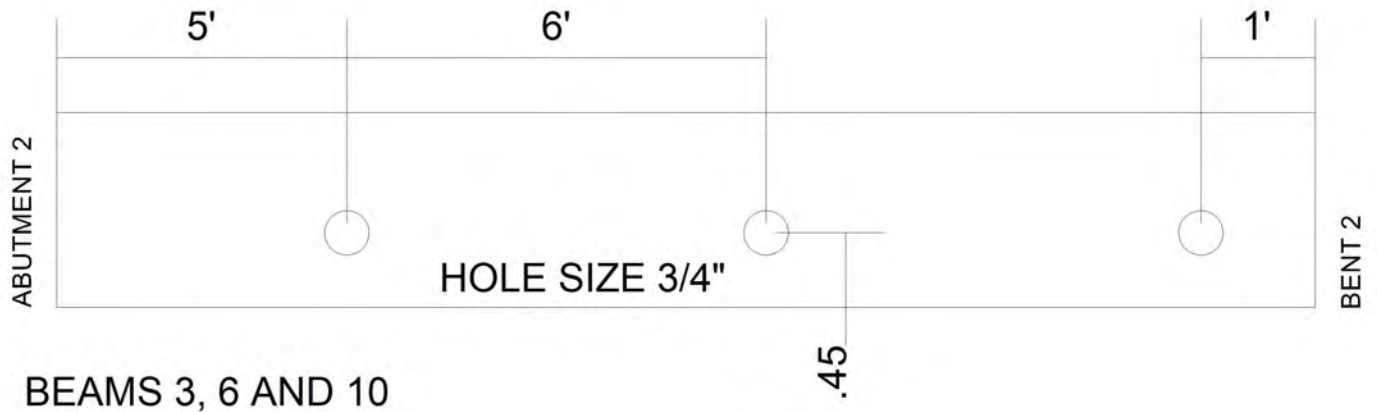
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Date: 6/18/2014

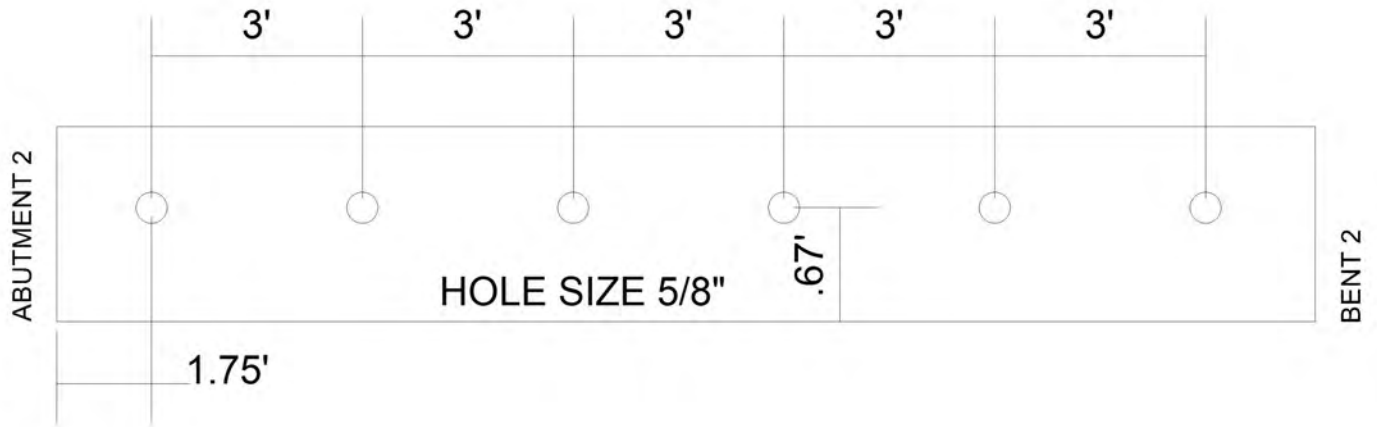
File Name: S0598000035

Bridge Inspection Field Sketch

SPAN 3



BEAMS 3, 6 AND 10



BEAM 8

Title

HOLES IN BEAMS 3

Description

Holes

Bridge No: 790149

Drawn By: RJF

Date: 6/18/2014

File Name: S0598000036



SOUTH APPROACH LOOKING NORTH



SOUTHEAST TRANSITION



SOUTHWEST TRANSITION



LOOKING WEST UPSTREAM



LOOKING EAST DOWNSTREAM



NORTHEAST TRANSITION



NORTHWEST TRANSITION



NORTH APPROACH LOOKING SOUTH



WEIGHT LIMIT SIGN AT NORTHWEST CORNER



WEIGHT LIMIT SIGN AT SOUTHEAST CORNER



EAST ELEVATION



WEST ELEVATION



SOUTH APPROACH



NORTH APPROACH



WEARING SURFACE SPAN 3



LEFT SIDE RAIL



ABUTMENT 1



BENT 1



BENT 2



BEAM 3 SPAN 1



DECK BOTTOM BAY 3 SPAN 1



BEARING 1 AT ABUTMENT 1



ABUTMENT 2



SLOPE AND ABUTMENT 1



LOOKING DOWNSTREAM



CHANNEL ADJACENT TO BENT 1



CHANNEL ADJACENT TO BENT 2



TOP OF FOOTING AT PILE 1 AT BENT 2