



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY NASH BRIDGE NUMBER 630126 INSPECTION CYCLE 0 YRS
ROUTE SR1310 ACROSS BIG PEACHTREE CREEK M.P. 0

0.7 MI. S. JCT. SR1324

LOCATION 1.6 MI.N.SR1308

SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON TIMBER JOISTS,STD BMD-10.

SUBSTRUCTURE E.BTS&INT.BTS:TIM.CAPS & PILES @ 8'CTS.&STL.PILE CRUTCHBT.

SPANS 1@17'9,1@17',1@17'9

LONGITUDE 78° 4' 32.53"

LATITUDE 36° 1' 54.09"

INSPECTION DATE 04/03/2014

PRESENT CONDITION FAIR

PRESENT POSTING Y SV 17 TTST 25

PROPOSED POSTING

OTHER SIGNS PRESENT FOUR (4) DELINEATORS



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>

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

Run Date: 05/13/2014

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	630126		SUFFICIENCY RATING =		28.55	
(8) STRUCTURE NUMBER(FEDERAL)		000000001270126		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013100					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2		CLASSIFICATION		CODE	
(3) COUNTY CODE 127	(4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED - BIG PEACHTREE CRE				(104)HIGHWAY SYSTEM Is not on NHS		0	
(7) FACILITY CARRIED SR1310				(26) FUNCTIONAL CLASS - Minor Collector		08	
(9) LOCATION 1.6 MI.N.SR1308				(100)STRAHNET HIGHWAY - Not a STRAHNET Route		0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE - No Parallel Structure		N	
(16)LAT 36° 1' 54.09"	(17)LONG 78° 4' 32.53"			(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	
				(31) MAINTAIN - State Highway Agency		01	
				(22) OWNER - State Highway Agency		01	
				(37) HISTORICAL SIGNIFICANCE - Not Eligible		5	
STRUCTURE TYPE AND MATERIAL							
(43) STRUCTURE TYPE MAIN: Wood or Timber							
TYPE - Stringer Multibeam or Girder	CODE	702					
(44) STRUCTURE TYPE APPR :							
TYPE -	CODE	000		CONDITION		CODE	
(45) NUMBER OF SPANS IN MAIN UNIT		3		(58) DECK		6	
(46) NUMBER OF APPROACH SPANS				(59) SUPERSTRUCTURE		6	
(107)DECK STRUCTURE TYPE - 1	CODE			(60) SUBSTRUCTURE		4	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(61) CHANNEL & CHANNEL PROTECTION		6	
(A) TYPE OF WEARING SURFACE -	CODE			(62) CULVERTS		N	
(B) TYPE OF MEMBRANE -	CODE						
(C) TYPE OF DECK PROTECTION -	CODE			LOAD RATING AND POSTING		CODE	
				(31) DESIGN LOAD Unknown		0	
				(63) OPERATING RATING METHOD - Allowable Stress		2	
				(64) OPERATING RATING - HS-1		1	
				(65) INVENTORY RATING METHOD - Allowable Stress		2	
				(66) INVENTORY RATING - HS-1		1	
				(70) BRIDGE POSTING - Posting Required		0	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION - Posted for Load			
AGE AND SERVICE							
(27) YEAR BUILT		1952					
(106)YEAR RECONSTRUCTED							
(42) TYPE OF SERVICE : ON - Highway							
UNDER - Waterway	CODE	15					
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0					
(29) AVERAGE DAILY TRAFFIC		380					
(30) YEAR OF ADT 2011	(109) TRUCK ADT PCT	6%					
(19) BYPASS OR DETOUR LENGTH		9 MI					
GEOMETRIC DATA							
(48) LENGTH OF MAXIMUM SPAN		17 FT					
(49) STRUCTURE LENGTH		53 FT					
(50)CURB OR SIDEWALK: LEFT .7915 FT RIGHT .7915 FT							
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT					
(52) DECK WIDTH OUT TO OUT		25.333 FT					
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		20 FT					
(33) BRIDGE MEDIAN - No Median	CODE	0					
(34) SKEW 0°	(35) STRUCTURE FLARED	0					
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT					
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24 FT					
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT					
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT					
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT					
(56) MIN LAT UNDERCLEAR LT REF -		000 FT					
NAVIGATION DATA							
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0					
(111)PIER PROTECTION -	CODE						
(39) NAVIGATION VERTICAL CLEARANCE		0					
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT					
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					
				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 760	(115) YEAR FUTURE ADT	2025	
				INSPECTIONS			
				(90) INSPECTION DATE		04/03/2014	
				(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE		
				A) FRACTURE CRIT DETAIL - NO	A)		
				B) UNDERWATER INSP - YES 48Mo	B)	11/12/2013	
				C) OTHER SPECIAL INSP NO	C)		
				SCOUR			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 05/13/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
NASH	4	2	630126	53	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1310	BIG PEACHTREE CRE

LOCATED :	BRIDGE NAME :	CITY :
1.6 MI.N.SR1308		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
08	NFA	NFA	380 2011	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1952	BMU			Unknown

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

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT 12 FT 6 FT		

SUPERSTRUCTURE : REINFORCED CONCRETE FLOOR ON TIMBER JOISTS,STD BMD-10.

SUBSTRUCTURE : E.BTS&INT.BTS:TIM.CAPS & PILES @ 8'CTS.&STL.PILE CRUTCHBT.

SPANS : 1@17'9,1@17',1@17'9

BEAMS OR GIRDERS : 19 LINES 6X12 TIMBER JOISTS @ VAR CTS.

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5RC/3AWS		25.333 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.583 FT	LT .7915 FT RT .7915 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	27	DATE	05/12/2014
HS-1	HS-1	int.joist	SV 19				

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. 630126 COUNTY NASH ROUTE SR1310 OVER BIG PEACHTREE CRE
 STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON TIMBER JOISTS, STD BMD-10.
 ROUTE ORIENTATION S - N SPANS 1@17'9", 1@17', 1@17'9"

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

INSPECTION ITEM				ITEM 61			
DECK ITEMS			GRADES				
1. WEARING SURFACE			G	45. CHANNEL & CHANNEL PROT.	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	3	F	50. APPROACH ROADWAY CONDITION			G
	b. TIMBER			51. APPROACH SLABS			
	c. STEEL PLANK			52. PAINT SYSTEM			CODE
	d. OPEN GRID			53. UTILITIES			
3. RAILING	a. CONCRETE		F	54. RESPONSE TO LIVE LOAD			G
	b. TIMBER			55. ESTIMATED REMAINING LIFE			6
	c. ALUMINUM						
	d. STEEL						
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)			7
	d. STANDARD JOINTS	2	F	64. TOTAL SNOOPER INSP. TIME (HRS)			
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
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	6	
10. LONGITUDINAL BEAMS OR GIRDERS			F	b. SUPERSTRUCTURE	ITEM 59	6	
11. LONGITUDINAL JOIST OR STRINGERS			F	c. SUBSTRUCTURE	ITEM 60	5	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	6	
13. END DIAP'S, CURTAIN WALLS, & CONN'S			F				
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS			
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				a. WATERWAY ADAQUACY		7	
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT		8	
17. MOVABLE SPAN MACHINERY							
				72. FIELD SCOUR EVALUATION			G
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						
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		G	SPECIAL INSPECTION REQUESTED FOR			
	b. PILES, BRACING, AND BULKHEADS		G				
38. FOUNDATION PILES TYPE MATERIAL				NOTE			
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)			NA				
40. FENDER SYSTEMS				80. INSPECTED BY:	K. M. M. M.		
41. DRIFT			F	81. REVIEWED BY:			

**BRIDGE INSPECTION
RECORD AND SUMMARY
FOR
SHORED STRUCTURES**

BRIDGE # 126 COUNTY WASH DATE 1-20-99

THE FOLLOWING SI & A ITEMS ARE TO BE CODED TO REFLECT THE
FACT THAT THE STRUCTURE IS SHORED UP:

		<u>CODE</u>	<u>BY</u>
SI & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION		<u>T</u>	<u>JR</u>
SI & A ITEM 59 - SUPERSTRUCTURE		<u> </u>	<u> </u>
SI & A ITEM 60 - SUBSTRUCTURE		<u>4</u>	<u>JR</u>
SI & A ITEM 64 - OPERATING RATING	HS <u>01</u> BY <u>S.LEE</u>	<u>201</u>	<u>ADR</u>
SI & A ITEM 66 - INVENTORY RATING	HS <u>01</u> BY <u>S.LEE</u>	<u>201</u>	<u>ADR</u>

COMMENTS:

ADDED CROSS CAP @ P-1 BENT #2

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 K. Mobley			
Assisted By JWL			
Item No.	Grade		
1	G	TRANSVERSE CRACK IN THE ASPHALT WEARING SURFACE ALONG BENT 1 JOINT (SEE PHOTO). SIMILAR CRACKS IN THE ASPHALT WEARING SURFACE ALONG BENT 2 JOINT.	
3a	F	UP TO 14" X 12" X 2" DEEP POTHOLES IN THE ASPHALT WEARING SURFACE IN THE UPSTREAM SHOULDER OF SPANS 2 AND 3 AT BENT 2 (SEE PHOTO). WEATHERING WITH EXPOSED AGGREGATE ALONG BOTH RAILS THROUGHOUT THE STRUCTURE. HAIRLINE MAP CRACKING WITH EFFLORESCENCE IN THE FACE OF THE DOWNSTREAM RAIL IN SPAN 1 (SEE PHOTO). SIMILAR CRACKS IN BOTH RAILS AT VARIOUS LOCATIONS THROUGHOUT THE STRUCTURE. 4" X 4" X 2" DEEP SPALL IN THE TOP OF THE DOWNSTREAM RAIL POST AT BENT 1. SIMILAR SPALLS IN BOTH RAILS IN RANDOM LOCATIONS.	
4	F	WEATHERING WITH EXPOSED AGGREGATE ALONG BOTH CURBS THROUGHOUT THE STRUCTURE.	
10	F	REPAIR: JOIST 6 IN SPAN 3 WAS REPLACED WITH A 6" X 10" STEEL BEAM PRIOR TO THE 2012 INSPECTION (SEE STRUCTURE PHOTO). SIMILAR REPLACEMENT BEAM FOR JOIST 9 IN SPAN 3. SURFACE CORROSION AND PITTING ALONG BOTH BEAMS.	
10A	NO	NO CURVED GIRDERS.	

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 K. Mobley			
Assisted By JWL			
Item No.	Grade		
11	F	REPAIR: THE FOLLOWING JOISTS WERE REPLACED WITH NEW PRESSURE TREATED JOISTS PRIOR TO THE 2012 INSPECTION: SPAN 1: 1) JOIST 1; 2) JOIST 8 (SEE STRUCTURE PHOTO); 3) JOIST 19; SPAN 2: 4) JOIST 1; 5) JOIST 18; 6) JOIST 19; SPAN 3: 7) JOIST 1; 8) JOIST 3; 9) JOIST 19. 2" X 2" X 4" DEEP AREA OF DECAY IN THE END OF JOIST 4 IN SPAN 1 AT BENT 1 (SEE PHOTO). SIMILAR CONDITION IN THE ENDS OF THE JOISTS IN VARIOUS LOCATIONS THROUGHOUT THE STRUCTURE. SOFT TIMBER AND SURFACE DECAY IN THE BOTTOM OF JOIST 7 IN SPAN 2 AT BENT 1. APPROXIMATELY 5' LONG X 3/16" SPLIT IN THE DOWNSTREAM FACE OF JOIST 13 IN SPAN 3 EXTENDING FROM END BENT 2 (SEE PHOTO).	
13	F	RANDOM LOCATIONS OF HAIRLINE CRACKS IN THE FACES OF THE DIAPHRAGMS AT THE END BENTS.	
35a	F	REPAIR: BENT 2 CAP AND CROWN WERE REPLACED PRIOR TO THE 2012 INSPECTION (SEE STRUCTURE PHOTO OF BENT 2). REPAIR: END BENT 2 CAP AND CROWN WERE REPLACED PRIOR TO THE 2012 INSPECTION (SEE STRUCTURE PHOTO OF END BENT 2). 6" X 2" X 1 1/2" DEEP AREA OF DECAY IN SPAN 1 FACE OF BENT 1 CAP BENEATH JOIST 1 (SEE PHOTO). APPROXIMATELY 10' LONG X 3/16" SPLIT IN SPAN 3 FACE OF BENT 2 CAP BETWEEN PILES 3 AND 4 (SEE PHOTO). AREAS OF SPOT DECAY UP TO 2" DEEP IN END BENT 1 CROWN BETWEEN PILES 3 AND 4.	

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 K. Mobley			
Assisted By JWL			
Item No.	Grade		
35b	F	REPAIR: THE FOLLOWING REPAIRS WERE MADE TO THE PILES PRIOR TO THE 2012 INSPECTION (SEE STRUCTURE PHOTOS OF THE END BENTS AND BENTS): END BENT 1: 1) PILE 1: REPLACED WITH NEW PRESSURE TREATED PILE AND ENCASED IN CONCRETE; 2) PILE 3: REPLACED WITH NEW PRESSURE TREATED PILE AND ENCASED IN CONCRETE; BENT 1: 3) PILE 1: REPLACED WITH NEW PRESSURE TREATED PILE AND ENCASED IN CONCRETE; BENT 2: 4) PILE 1: REPLACED WITH STEEL CRUTCH BENT; 5) PILE 3: REPLACED WITH NEW PRESSURE TREATED PILE AND ENCASED IN CONCRETE; 6) PILE 4: REPLACED WITH NEW PRESSURE TREATED PILE AND ENCASED IN CONCRETE; END BENT 2: 7) PILE 1: REPLACED WITH NEW PRESSURE TREATED PILE AND ENCASED IN CONCRETE; 8) PILE 2: REPLACED WITH NEW PRESSURE TREATED PILE AND ENCASED IN CONCRETE; 9) PILE 4: REPLACED WITH NEW PRESSURE TREATED PILE AND ENCASED IN CONCRETE. REPAIR: ONE BOARD (8" X 3") OF SPAN 1 FACE OF BENT 1 CROSS BRACING WAS REPLACED PRIOR TO THE 2012 INSPECTION (SEE BENT 1 STRUCTURE PHOTO). 24" X 10" X FULL DEPTH AREA OF DECAY IN SPAN 2 FACE OF BENT 1 CROSS BRACING AT PILE 2 (SEE PHOTO). SIMILAR AREA OF DECAY IN SPAN 1 FACE OF BENT 1 CROSS BRACING AT PILE 3. 40" X 6" X 3" DEEP AREA OF DECAY IN THE DOWNSTREAM FACE OF THE PILE AT THE UPSTREAM END OF END BENT 1 BULKHEAD (SEE PHOTO). UP TO 1" WIDE VERTICAL CRACK IN THE UPSTREAM FACE OF PILE 1 CONCRETE ENCASEMENT AT BENT 1 (SEE PHOTO). 7" X 6" X 3" DEEP AREA OF DECAY IN THE TOP OF PILE 3 AT END BENT 2 (SEE PHOTO).	
35c	F	7' X 20" X UP TO 2" DEEP AREA OF DECAY IN END BENT 1 BULKHEAD BETWEEN PILES 3 AND 4 (SEE PHOTO). A 3" X 8" TIMBER BOARD HAS BEEN ADDED TO SUPPORT END BENT 1 BULKHEAD BETWEEN PILES 1 AND 2, LOCATED APPROXIMATELY 32" FROM PILE 1. 7' X 16" X FULL DEPTH AREA OF DECAY IN THE SOUTHWEST WINGWALL (SEE PHOTO).	

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Team Leader K. Mobley			
Assisted By JWL			
Item No.	Grade		
37a	G	STEEL CRUTCH PILE ADJACENT TO PILE 1 AT BENT 2 (SEE STRUCTURE PHOTO).	
37b	G	STEEL CRUTCH PILE ADJACENT TO PILE 1 AT BENT 2 (SEE STRUCTURE PHOTO).	
39	NA	SLOPE PROTECTION WAS GRADED DURING THE 2012 INSPECTION; HOWEVER, SLOPE PROTECTION IS NOT PRESENT.	
41	F	10" DIAMETER LOG AT THE UPSTREAM END OF BENT 1 IN SPAN 1 (SEE PHOTO).	
		0.5 CY OF DRIFT AND 6" DIAMETER LOG AT THE UPSTREAM END OF BENT 2 (SEE PHOTO).	
50	G	TRANSVERSE CRACKS IN THE ASPHALT WEARING SURFACE ALONG BOTH END BENT FILL FACES. SEE PHOTO OF THE CRACK IN THE ASPHALT WEARING SURFACE ALONG END BENT 1 FILL FACE.	
62	YES	SV 17 TTST 25	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 630126

County NASH

Date: 04/03/2014

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	1	UP TO 14" X 12" X 2" DEEP POTHOLES IN THE ASPHALT WEARING SURFACE IN THE UPSTREAM SHOULDER OF SPANS 2 AND 3 AT BENT 2.	
3344	Repair / Replace Timber Substructure Components	LF	10	24" X 10" X FULL DEPTH AREA OF DECAY IN SPAN 2 FACE OF BENT 1 CROSS BRACING AT PILE 2 AND IN SPAN 1 FACE OF BENT 1 CROSS BRACING AT PILE 3. 40" X 6" X 3" DEEP AREA OF DECAY IN THE DOWNSTREAM FACE OF THE PILE AT THE UPSTREAM END OF END BENT 1 BULKHEAD. UP TO 1" WIDE VERTICAL CRACK IN THE UPSTREAM FACE OF PILE 1 CONCRETE ENCASEMENT AT BENT 1.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	21	7" X 6" X 3" DEEP AREA OF DECAY IN THE TOP OF PILE 3 AT END BENT 2. 7' X 20" X UP TO 2" DEEP AREA OF DECAY IN END BENT 1 BULKHEAD BETWEEN PILES 3 AND 4. 7' X 16" X FULL DEPTH AREA OF DECAY IN THE SOUTHWEST WINGWALL.	
3366	Drift and Debris Removal	HR	16	10" DIAMETER LOG AT THE UPSTREAM END OF BENT 1 IN SPAN 1. 0.5 CY OF DRIFT AND 6" DIAMETER LOG AT THE UPSTREAM END OF BENT 2.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



TRANSVERSE CRACK IN ASPHALT WEARING SURFACE ALONG END BENT 1 FILL FACE



HAIRLINE MAP CRACKING WITH EFFLORESCENCE IN FACE OF DOWNSTREAM RAIL IN SPAN 1



TRANSVERSE CRACK IN ASPHALT WEARING SURFACE ALONG BENT 1 JOINT



UP TO 14" X 12" X 2" DEEP POTHOLES IN ASPHALT WEARING SURFACE IN UPSTREAM SHOULDER OF SPANS 2 AND 3 AT BENT 2



7' X 20" X UP TO 2" DEEP AREA OF DECAY IN END BENT 1 BULKHEAD BETWEEN PILES 3 AND 4



24" X 10" X FULL DEPTH AREA OF DECAY IN SPAN 2 FACE OF BENT 1 CROSS BRACING AT PILE 2



40" X 6" X 3" DEEP AREA OF DECAY IN DOWNSTREAM FACE OF PILE AT UPSTREAM END OF END BENT 1 BULKHEAD



UP TO 1" WIDE VERTICAL CRACK IN UPSTREAM FACE OF PILE 1 CONCRETE ENCASEMENT AT BENT 1



7' X 16" X FULL DEPTH AREA OF DECAY IN SOUTHWEST WINGWALL



6" X 2" X 1 1/2" DEEP AREA OF DECAY IN SPAN 1 FACE OF BENT 1 CAP BENEATH JOIST 1



10" DIAMETER LOG AT UPSTREAM END OF BENT 1 IN SPAN 1



2" X 2" X 4" DEEP AREA OF DECAY IN END OF JOIST 4 IN SPAN 1 AT BENT 1



0.5 CY OF DRIFT AND 6" DIAMETER LOG AT UPSTREAM END OF BENT 2



7" X 6" X 3" DEEP AREA OF DECAY IN TOP OF PILE 3 AT END BENT 2



APPROXIMATELY 10' LONG X 3/16" SPLIT IN SPAN 3 FACE OF BENT 2 CAP BETWEEN PILES 3 AND 4

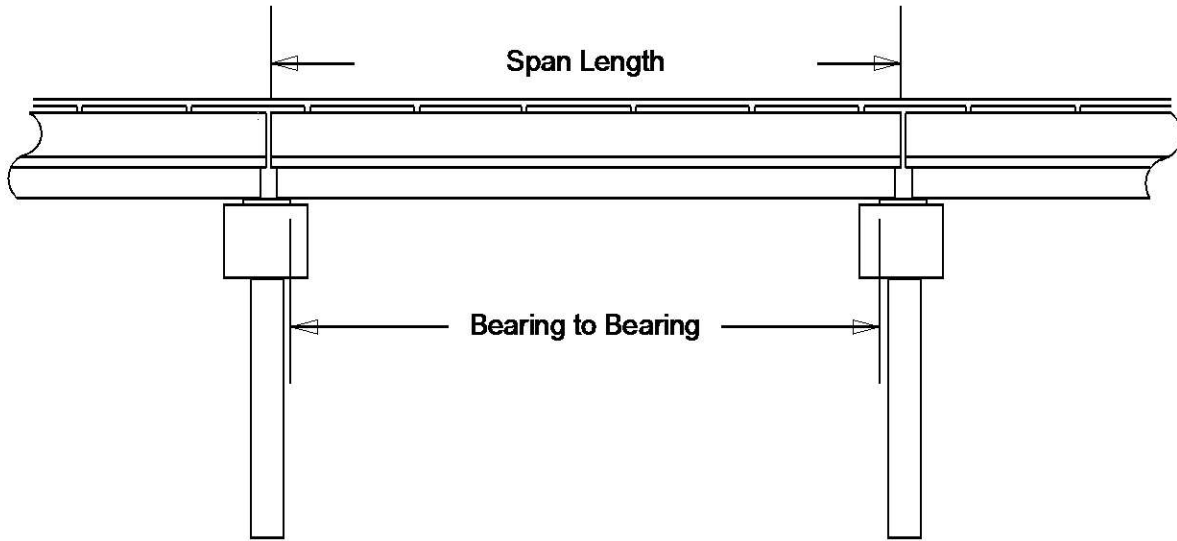


APPROXIMATELY 5' LONG X 3/16" SPLIT IN DOWNSTREAM FACE OF JOIST 13 IN SPAN 3 EXTENDING FROM
END BENT 2

Structure Data Worksheet

Spans

County: NASH Structure No: 630126 Date: 04/03/2014 Inspected By: KMM



Span No	Span Length	Bearing to Bearing	Comments
1	17.75	16.75	NBIS: 51.0
2	17.0	16.0	
3	17.75	16.75	

Stream Bed Soundings

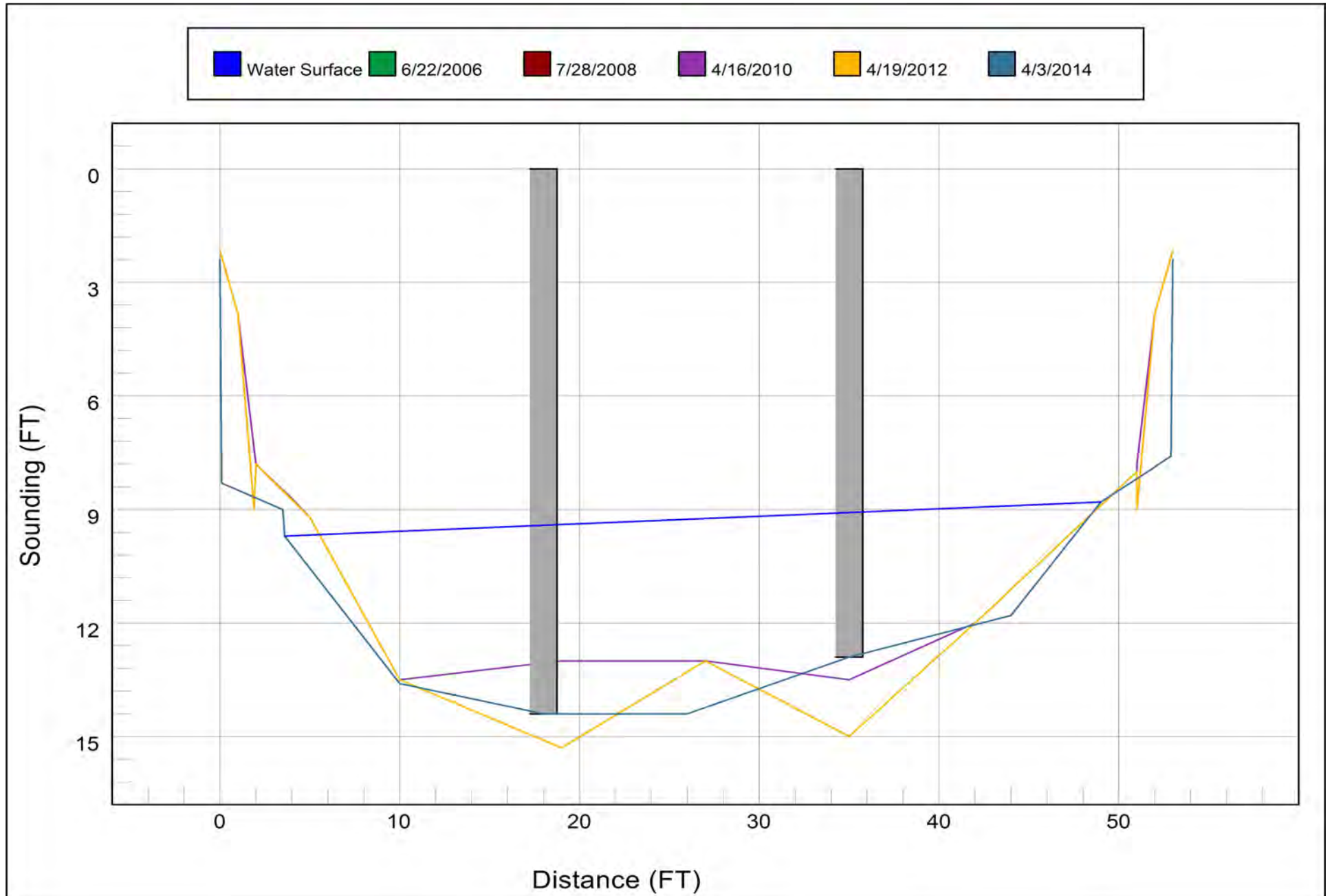
(See next sheet for profile sketch)

Bridge No: 630126 County: NASH Date: 04/03/2014 By: KMM

Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: 0 Location of Highwater Mark: OVERTOPPED STRUCTURE

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.4	TOP OF WINGWALL			
0.1	8.3	GROUND AT WINGWALL	0.1	6.6	GROUND AT WINGWALL
3.5	9	GROUND			
3.6	9.7	Water Surface/Water Edge (WSWE)			
10	13.6	STREAMBED			
18	14.4	BENT 1	18	10.7	BENT 1
26	14.4	STREAMBED			
35	12.9	BENT 2	35	9.9	BENT 2
44	11.8	STREAMBED			
49	8.8	Water Surface/Water Edge (WSWE)			
52.9	7.6	GROUND AT WINGWALL	52.9	8.8	STREAMBED AT WINGWALL
53	2.4	TOP OF WINGWALL			



Bridge Inspection Field Sketch



Roadway	18.08ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6.5ft Wide	0.5ft Paved	6ft Unpaved
Right Shoulder	6.5ft Wide	0.5ft Paved	6ft Unpaved
Left Guardrail			
Right Guardrail			

Measurements recorded approximately 25ft from the bridge.

SKETCH REVISED BY JWL ON 4.3.14

Title

APPROACH ROADWAY

Description

LOOKING NORTH

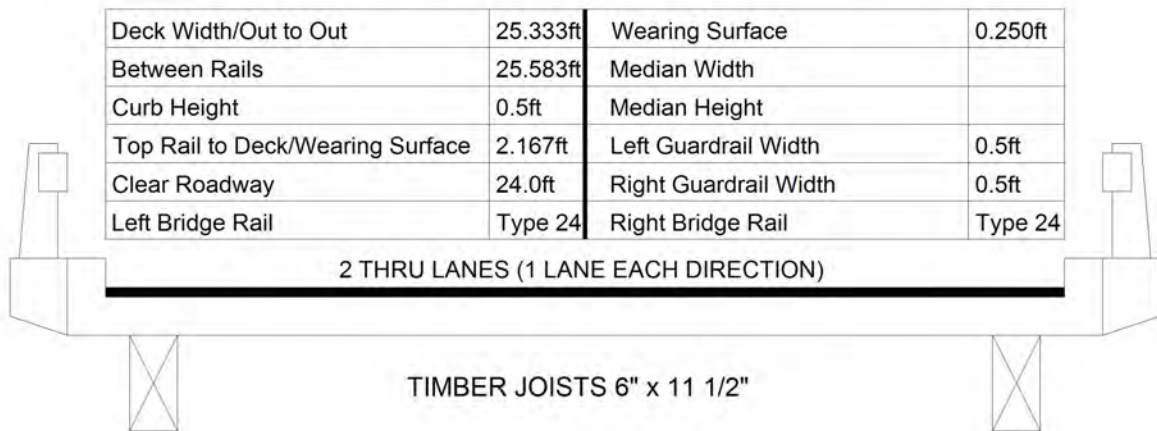
Bridge No: 630126

Drawn By: VMH

Date: 07/28/2008

File Name: S0026002444

Bridge Inspection Field Sketch



Measurements for Spans #	1 thru 3		
Deck Thickness	0.417	Left Overhang	0.542
Top of Rail to Bottom of Beam	3.833	Right Overhang	0.542

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.542ft	6 in. x 11 1/2 in.
2	Timber (Rectangular)	1.542ft	6 in. x 11 1/2 in.
3	Timber (Rectangular)	1.292ft	6 in. x 11 1/2 in.
4	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
5	Timber (Rectangular)	1.292ft	6 in. x 11 1/2 in.
6	Timber (Rectangular)	1.375ft	6 in. x 11 1/2 in.
7	Timber (Rectangular)	1.292ft	6 in. x 11 1/2 in.
8	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
9	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
10	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
11	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
12	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
13	Timber (Rectangular)	1.292ft	6 in. x 11 1/2 in.
14	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
15	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
16	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
17	Timber (Rectangular)	1.292ft	6 in. x 11 1/2 in.
18	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in.
19	Timber (Rectangular)		6 in. x 11 1/2 in.

SKETCH REVISED BY JWJ ON 4.4.14

Title

TYPICAL SECTION

Description

19 LINES OF TIMBER JOISTS

Bridge No: 630126

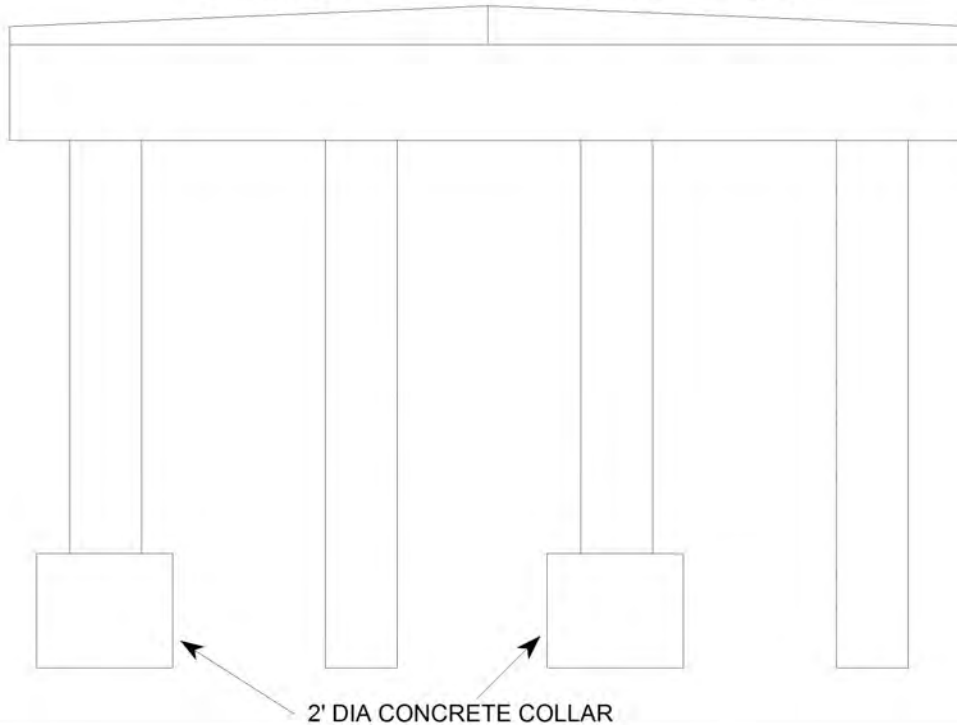
Drawn By: VMH

Date: 07/28/2008

File Name: S0026002445

Bridge Inspection Field Sketch

CROWNSTRIP: 2 1/4" AT ENDS - 4" AT CENTER



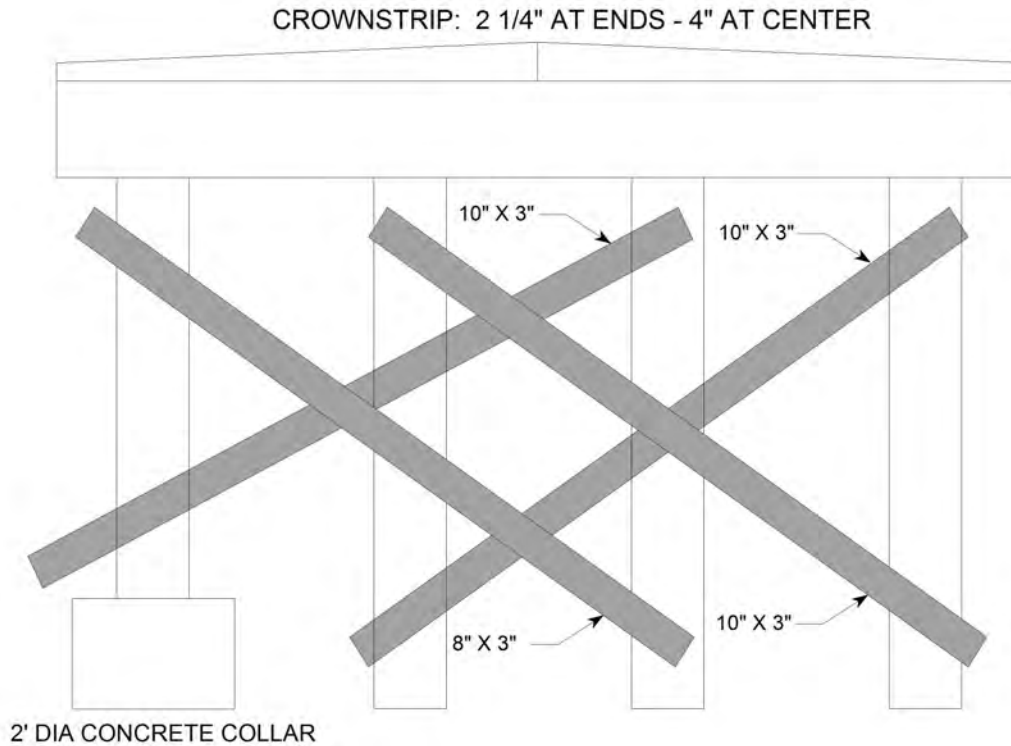
End Bent #	1		
Cap - Beam Type (Wood)			
Cap Size	26.0ft Long	0.979ft Wide	0.979ft High
Left Overhang	1.0ft	Lt Cap/Beam Overhang	0.917ft
Right Overhang	1.0ft	Rt Cap/Beam Overhang	0.917ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber (Repaired)	Pile Bent	8.0 (+/-)		0.83		Vertical
2	Wood or Timber	Pile Bent	8.0 (+/-)		1.0		Vertical
3	Wood or Timber (Repaired)	Pile Bent	8.0 (+/-)		1.0		Vertical
4	Wood or Timber	Pile Bent			1.0		Vertical

SKETCH VERIFIED BY JWL ON 4.4.14

Title		Description	
END BENT 1 PROFILE		END BENT 1	
Bridge No: 630126	Drawn By: VMH	Date: 07/28/2008	File Name: S0026002446

Bridge Inspection Field Sketch



Bent #	1		
Cap - Beam Type (Wood)			
Cap Size	26.0ft Long	0.979ft Wide	0.979ft High
Left Overhang	1.0ft	Lt Cap/Beam Overhang	0.917ft
Right Overhang	1.0ft	Rt Cap/Beam Overhang	0.917ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent (Repaired)	8.0 (+/-)		1.0		Vertical
2	Wood or Timber	Pile Bent	8.0 (+/-)		1.0		Vertical
3	Wood or Timber	Pile Bent	8.0 (+/-)		1.0		Vertical
4	Wood or Timber	Pile Bent			1.0		Vertical

SKETCH VERIFIED BY JWL ON 4.4.14

Title

BENT 1 PROFILE

Description

BENT 1

Bridge No: 630126

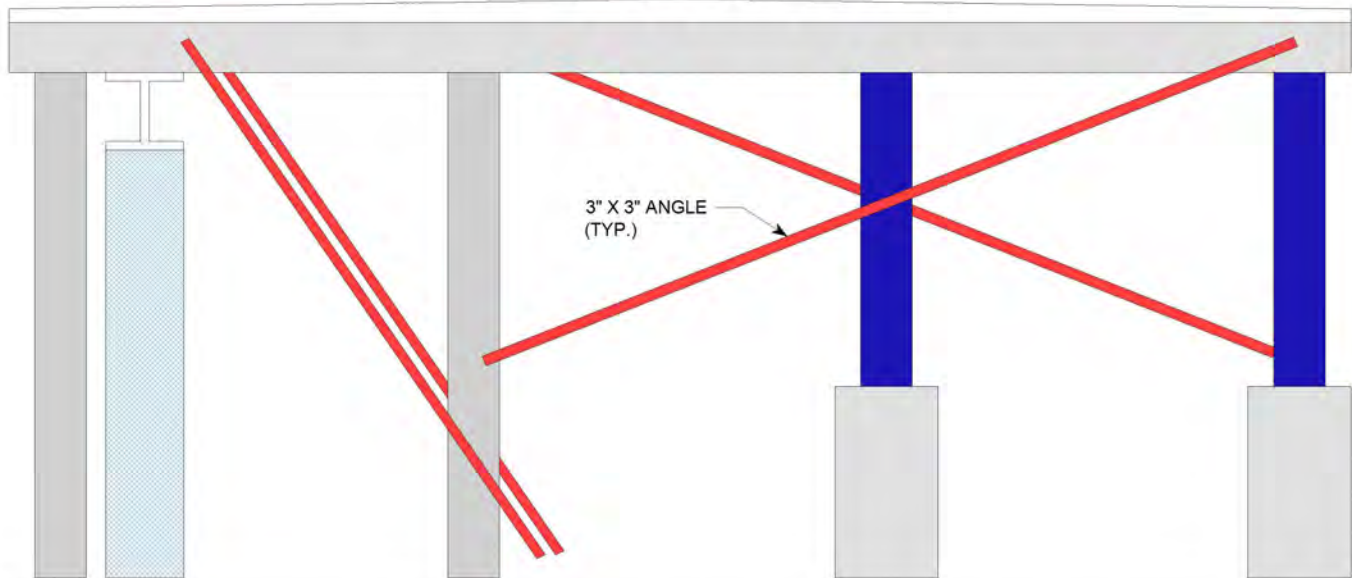
Drawn By: VMH

Date: 07/28/2008

File Name: S0026002447

Bridge Inspection Field Sketch

CROWNSTRIP: 2 1/4" AT ENDS - 4" AT CENTER

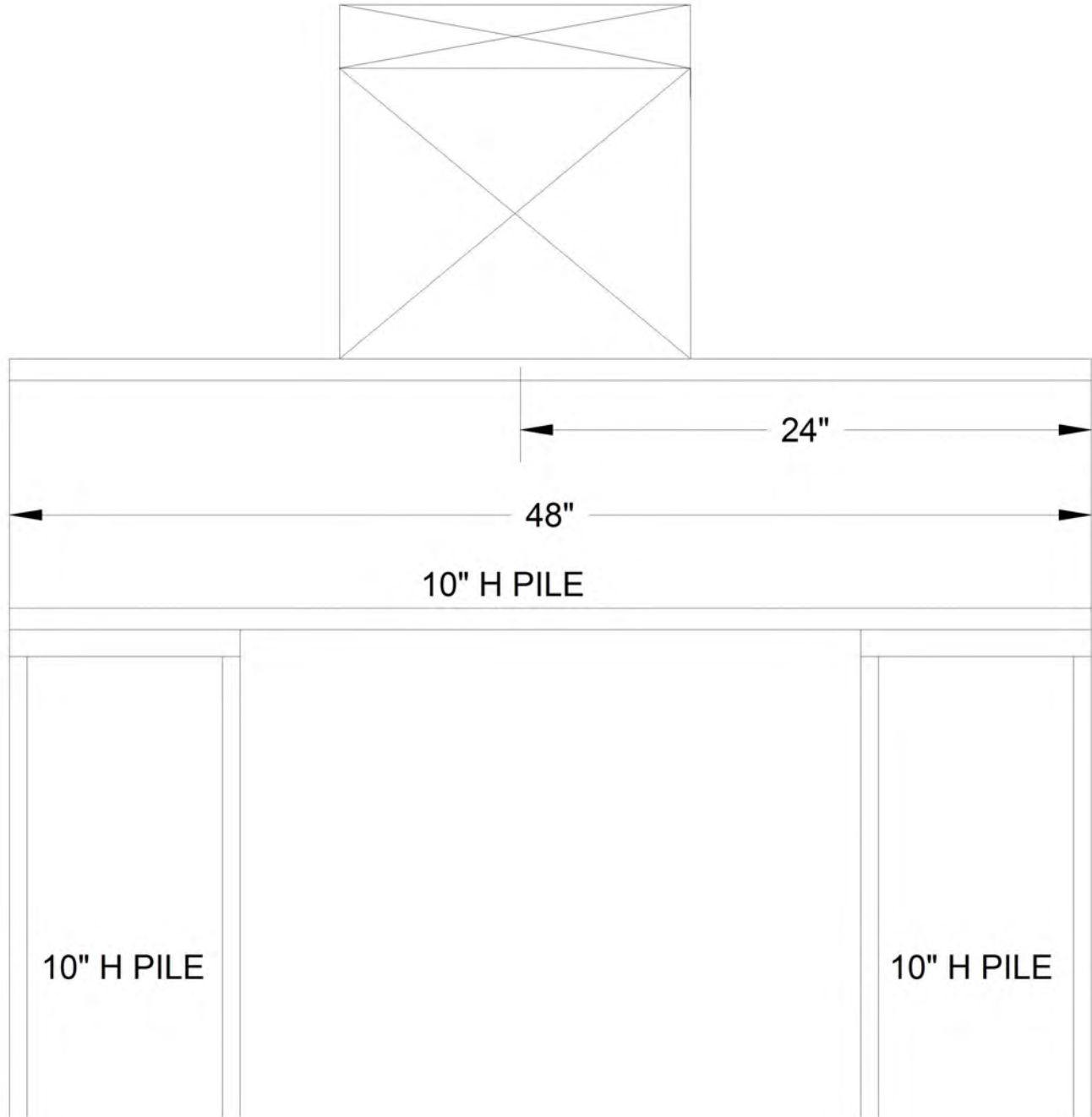


Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.000 ft.	0.979 ft.	0.979 ft.	1.000 ft.	1.000 ft.	0.917 ft.	0.917 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1.167 ft.	1.0 ft.			Vertical	Yes	No	No	No
2	Steel Crutch	6.833 ft.	1.167 ft.	1.167 ft.		Vertical	No	Yes	No	No
3	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	No	No	No
4	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
5	Timber		1.0 ft.			Vertical	Yes	Yes	No	Yes
Bent #: 2										

SKETCH REVISED BY JWL ON 4.4.14

Title			Description		
BENT 2 PROFILE			BENT 2		
Bridge No:	630126	Drawn By:	VMH	Date:	07/28/2008
			File Name:	S0026002448	

Bridge Inspection Field Sketch



SKETCH VERIFIED BY JWL ON 4.4.14

Title

BENT 2 CRUTCH PILE

Description

CRUTCH PILE AT PILE 1

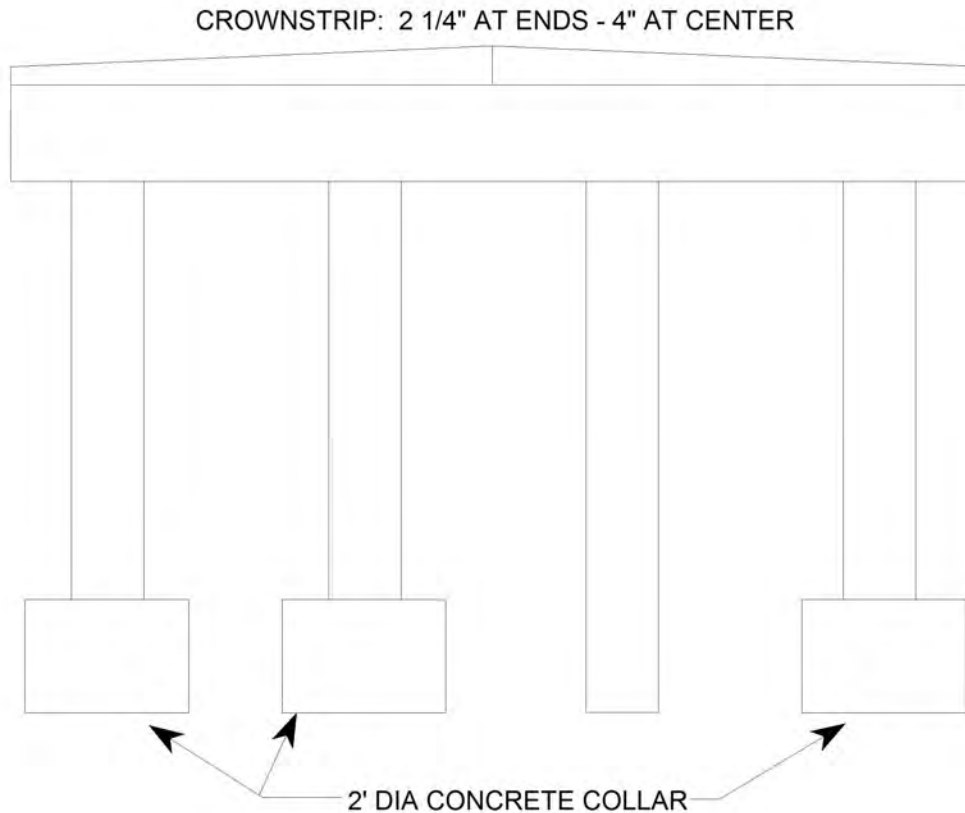
Bridge No: 630126

Drawn By: VMH

Date: 07/28/2008

File Name: S0026002450

Bridge Inspection Field Sketch



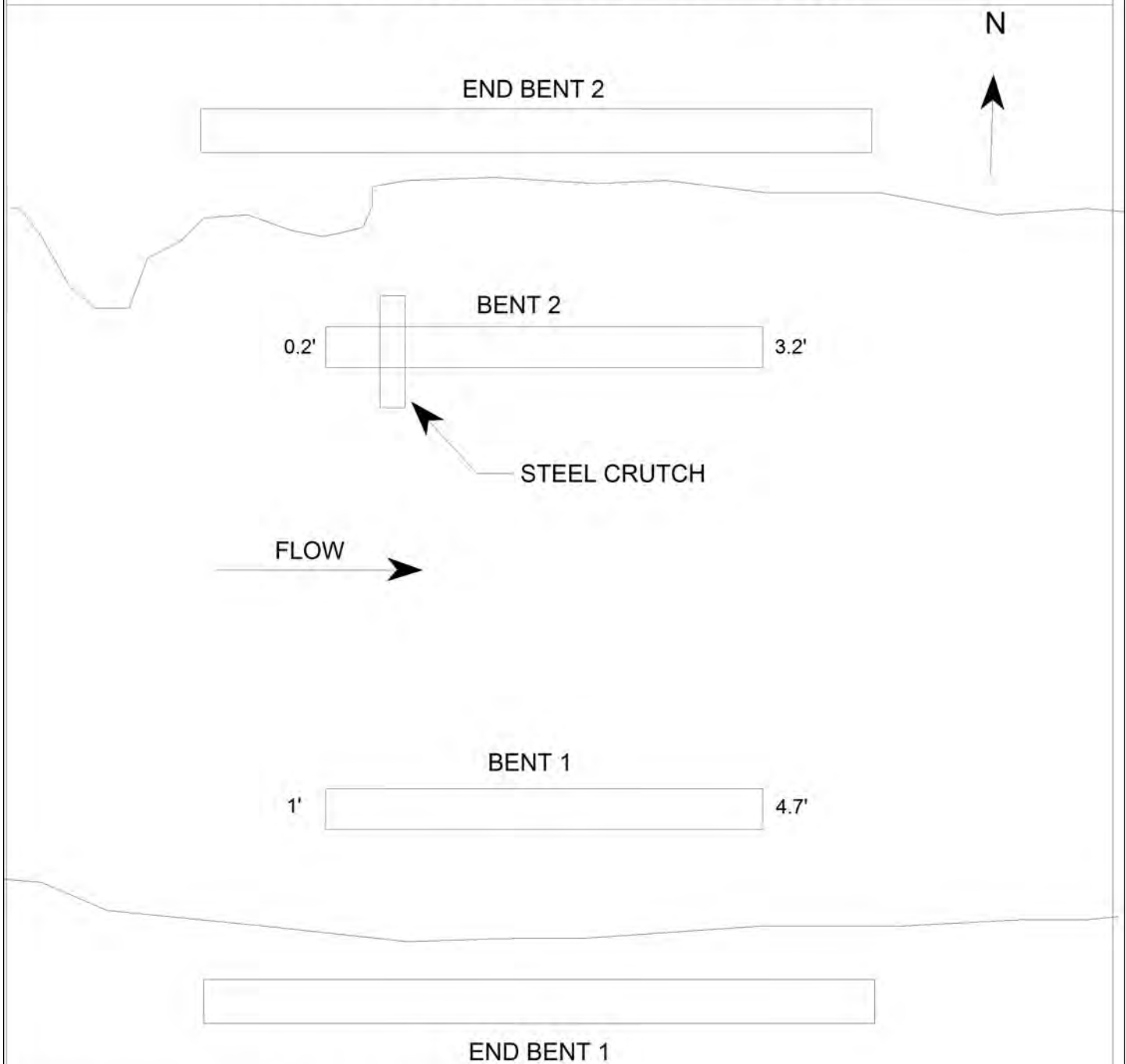
End Bent #	2		
Cap - Beam Type (Wood)			
Cap Size	26.0ft Long	0.979ft Wide	0.979ft High
Left Overhang	1.0ft	Lt Cap/Beam Overhang	0.917ft
Right Overhang	1.0ft	Rt Cap/Beam Overhang	0.917ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber (Repaired)	Pile Bent	8.0 (+/-)		1.0		Vertical
2	Wood or Timber (Repaired)	Pile Bent	8.0 (+/-)		1.0		Vertical
3	Wood or Timber	Pile Bent	8.0 (+/-)		1.0		Vertical
4	Wood or Timber (Repaired)	Pile Bent			1.0		Vertical

SKETCH VERIFIED BY JWL ON 4.4.14

Title END BENT 2 PROFILE		Description END BENT 2	
Bridge No: 630126	Drawn By: VMH	Date: 07/28/2008	File Name: S0026002449

Bridge Inspection Field Sketch



BOTTOM COMP. = SAND ,CLAY W/ 1' PROBE

WATER SURFACE = 9.7' BENT 1, E. SIDE

SKETCH REVISED BY JWJL ON 4.4.14

Title		Description	
PLAN VIEW		PLAN VIEW	
Bridge No:	630126	Drawn By:	SDM
		Date:	11/12/2013
		File Name:	S0162000502



LOOKING NORTH



POSTING SIGN AT SOUTH APPROACH, POSTING SIGN AT NORTH APPROACH SIMILAR



UPSTREAM RAIL, DOWNSTREAM RAIL SIMILAR



LOOKING DOWNSTREAM, EAST



LOOKING UPSTREAM, WEST



NORTH APPROACH, LOOKING SOUTH



SPAN 1 UNDERDECK, OTHERS SIMILAR



JOIST 8 REPLACEMENT IN SPAN 1



BENT 1



UPSTREAM PROFILE, LOOKING NORTHEAST



BENT 2



CRUTCH PILE AT PILE 1 AT BENT 2



6" X 10" STEEL BEAM REPLACEMENT FOR JOIST 6 IN SPAN 3, REPLACEMENT BEAM FOR JOIST 9 IN SPAN 3
SIMILAR



DOWNSTREAM PROFILE, LOOKING SOUTHWEST



END BENT 1



END BENT 2