



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE
TEMPORARY REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY NASH BRIDGE NUMBER 630143 INSPECTION CYCLE 0 YRS

ROUTE SR1302 ACROSS STONEY CREEK M.P. 0

1.0 MI. S. JCT. NC58

LOCATION **1.0 MI. W. JCT. NC58**

SUPERSTRUCTURE PRESTRESSED CONCRETE CHANNEL, BMD-13 & 13-1

SUBSTRUCTURE E.BTS&INT.BTS:PPC CAPS/TIMBER PILES @ 6'CENTERS

SPANS 1@30'6";2@30';1@30'6"

LONGITUDE 78° 0' 46.04"

LATITUDE 35° 59' 11.35"

INSPECTION DATE 04/01/2014

PRESENT CONDITION FAIR

PRESENT POSTING **SV 21 TTST 24**

SV 21 TTST 24

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	Yes

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: 05/22/2014

IDENTIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	630143	SUFFICIENCY RATING = 29.63
(8) STRUCTURE NUMBER(FEDERAL)	000000001270143	STATUS =	Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON	31013020		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2	CLASSIFICATION	
(3) COUNTY CODE 127	(4) PLACE CODE 0	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - STONEY CREEK		(104)HIGHWAY SYSTEM Is not on NHS	0
(7) FACILITY CARRIED SR1302		(26) FUNCTIONAL CLASS - Local	09
(9) LOCATION 1.0 MI. W. JCT. NC58		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 59' 11.35"	(17)LONG 78° 0' 46.04"	(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
STRUCTURE TYPE AND MATERIAL		(20) TOLL On Free Road	3
(43) STRUCTURE TYPE MAIN: Prestressed Concrete		(31) MAINTAIN - State Highway Agency	01
TYPE - Channel Beam	CODE 522	(22) OWNER - State Highway Agency	01
(44) STRUCTURE TYPE APPR :		(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
TYPE -	CODE 000	CONDITION	
(45) NUMBER OF SPANS IN MAIN UNIT	4	(58) DECK	7
(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	7
(A) TYPE OF WEARING SURFACE -	CODE	(62) CULVERTS	N
(B) TYPE OF MEMBRANE -	CODE	LOAD RATING AND POSTING	
(C) TYPE OF DECK PROTECTION -	CODE	(31) DESIGN LOAD H 15	2
AGE AND SERVICE		(63) OPERATING RATING METHOD - Load Factor	1
(27) YEAR BUILT	1959	(64) OPERATING RATING - HS-1	1
(106)YEAR RECONSTRUCTED		(65) INVENTORY RATING METHOD - Load Factor	1
(42) TYPE OF SERVICE : ON - Highway		(66) INVENTORY RATING - HS-1	1
UNDER - Waterway	CODE 15	(70) BRIDGE POSTING - Posting Required	1
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	0	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P
(29) AVERAGE DAILY TRAFFIC	350	DESCRIPTION - Posted for Load	
(30) YEAR OF ADT 2011	(109) TRUCK ADT PCT 6%	APPRAISAL	
(19) BYPASS OR DETOUR LENGTH	7 MI	(67) STRUCTURAL EVALUATION	3
GEOMETRIC DATA		(68) DECK GEOMETRY	5
(48) LENGTH OF MAXIMUM SPAN	30 FT	(69) UNDERCLEARANCES,VERTI & HORIZ	N
(49) STRUCTURE LENGTH	121 FT	(71) WATERWAY ADEQUACY	7
(50)CURB OR SIDEWALK: LEFT .5 FT RIGHT .5 FT		(72) APPROACH ROADWAY ALIGNMENT	7
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	24.25 FT	(36) TRAFFIC SAFETY FEATURES	0000
(52) DECK WIDTH OUT TO OUT	25.75 FT	(113)SCOUR CRITICAL BRIDGES	U
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	19 FT	PROPOSED IMPROVEMENTS	
(33) BRIDGE MEDIAN - No Median	CODE 0	(75) TYPE OF WORK -	CODE
(34) SKEW 0°	(35) STRUCTURE FLARED 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(94) BRIDGE IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	24.25 FT	(95) ROADWAY IMPROVEMENT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(96) TOTAL PROJECT COST	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT	(114)FUTURE ADT 700	(115) YEAR FUTURE ADT 2025
(56) MIN LAT UNDERCLEAR LT REF -	000 FT	INSPECTIONS	
NAVIGATION DATA		(90) INSPECTION DATE	04/01/2014
(38) NAVIGATION CONTROL - No Navigational Control	CODE 0	(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
(111)PIER PROTECTION -	CODE	A) FRACTURE CRIT DETAIL - NO	A)
(39) NAVIGATION VERTICAL CLEARANCE	0	B) UNDERWATER INSP - NO	B)
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT	C) OTHER SPECIAL INSP NO	C)
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT	SCOUR	

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 05/22/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
NASH	4	2	630143	121	FEET
ROUTE CARRIED :		FEATURE INTERSECTED :			
SR1302		STONE CREEK			
LOCATED :		BRIDGE NAME :		CITY :	
1.0 MI. W. JCT. NC58					
FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :	
09	NFA	NFA	350 2011	LT 233 RT 233	
BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :	
1959	BMU			H 15	
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		16 FT		2 FT
SUPERSTRUCTURE : PRESTRESSED CONCRETE CHANNEL,BMD-13 & 13-1					
SUBSTRUCTURE : E.BTS&INT.BTS:PPC CAPS/TIMBER PILES @ 6'CENTERS					
SPANS : 1@30'6;2@30';1@30'6					
BEAMS OR GIRDERS : 10 PRESTRESSED CONCRETE CHANNEL SECTIONS					
FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :			
PPC.CH/3AWS		25.75 FT			
CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
24.25 FT	25.25 FT	LT .5 FT RT .5 FT			
VERT.CL.OVER : 999.9 FT					
INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	DATE	
HS-1	HS-1	Timber Pile	SV 21 TTST 24	06/07/2010	
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. 630143

COUNTY NASH

ROUTE SR1302

OVER STONEY CREEK

STRUCTURE TYPE PRESTRESSED CONCRETE CHANNEL, BMD-13 & 13-1

ROUTE ORIENTATION S - N

SPANS 1@30'6"; 2@30'; 1@30'6"

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.			G
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	4	G	a. WATERWAY			G
	b. TIMBER			b. ALIGNMENT			G
	c. STEEL PLANK			c. SCOUR			G
	d. OPEN GRID			d. SLOPE PROT., RIP-RAP, DIKES, ETC.			
3. RAILING				50. APPROACH ROADWAY CONDITION			F
a. CONCRETE				51. APPROACH SLABS			
	b. TIMBER			52. PAINT SYSTEM CODE			
	c. ALUMINUM			53. UTILITIES			
	d. STEEL		G	54. RESPONSE TO LIVE LOAD			G
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G	55. ESTIMATED REMAINING LIFE			10
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			YES
	b. MISC PREFAB			62. PRESENTLY POSTED			YES
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			8
	d. STANDARD JOINTS	3	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	7	
10. LONGITUDINAL BEAMS OR GIRDERS			F	b. SUPERSTRUCTURE	ITEM 59	6	
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	6	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	7	
13. END DIAP'S, CURTAIN WALLS, & CONN'S			G	71. SI&A FIELD APPRAISAL RATINGS			
14. FLOOR BEAMS AND CONNECTIONS				a. WATERWAY ADAQUACY		7	
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			NA	b. APPR. RDWY. ALIGNMENT		8	
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	72. FIELD SCOUR EVALUATION			
17. MOVABLE SPAN MACHINERY				G			
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)				USE OF INSP. ACCESSIBILITY EQUIPMENT			
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			SNOOPER (CODE S, 4, OR N)	HRS	NO	
	b. PILES, POST, SILLS, & BRACING	F		LADDER		NO	
	c. BULKHEADS, WING'S, & TIE BACKS	F		BUCKET TRUCK		NO	
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS	G		BOAT		NO	
	b. ABUT. & BENT COL'S BREASTWALLS			OTHER		NO	
	c. ABUT. & INT. BENT PILES						
	d. BACKWALLS, WING'S, RETAIN. WALLS						
	e. ABUT. & BENT FOOTINGS & SILLS						
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)			NA				
40. FENDER SYSTEMS				80. INSPECTED BY:	K.M. [Signature]		
41. DRIFT			G	81. REVIEWED BY:			

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

BRIDGE: **630143**County **Nash**DATE: **5/22/2014**

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	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	4	TSE
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

*5/22/14***COMMENTS**

Some piles have been supplemented.

Temporary Repair

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 CRACKS IN THE ASPHALT WEARING SURFACE ALONG THE BENT JOINTS. SEE PHOTO OF THE CRACK IN THE ASPHALT WEARING SURFACE ALONG BENT 1.	
6d	F	LONGITUDINAL CRACK IN THE ASPHALT WEARING SURFACE IN THE NORTHBOUND LANE OF SPAN 4 (SEE PHOTO). SIMILAR CRACKS IN SPANS 2 AND 3. TRANSVERSE CRACKS IN THE ASPHALT WEARING SURFACE ALONG THE BENT JOINTS AND WATER STAINS ON THE FACES OF THE CAPS INDICATIVE OF LEAKING JOINTS.	
7	G	SILT ACCUMULATION ALONG BOTH SHOULDERS. SEE PHOTO OF THE ACCUMULATION ALONG THE UPSTREAM SHOULDER.	

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		
10	F	PRIORITY MAINTENANCE: 10" X 1" X 1" DEEP SPALL WITH EXPOSED STRAND IN THE BOTTOM OF LEG 2 IN CHANNEL 1 OF SPAN 2, APPROXIMATELY 10' FROM BENT 2 (SEE PHOTO). PRIORITY MAINTENANCE: 30" X 2 1/2" X 3" DEEP SPALL WITH EXPOSED STRAND IN THE BOTTOM OF LEG 1 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 10' FROM BENT 1 (SEE PHOTO). PRIORITY MAINTENANCE: 6" X 1" X 1/2" DEEP SPALL WITH EXPOSED STRAND IN THE UPSTREAM FACE OF LEG 2 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 3' FROM BENT 1 (SEE PHOTO). 24" X 3" AREA OF DELAMINATION AND 14" X 1" X 1/4" DEEP SPALL WITH EXPOSED REBAR IN THE BOTTOM AND DOWNSTREAM FACE OF LEG 1 IN CHANNEL 4 OF SPAN 2 AT BENT 1 (SEE PHOTO). SIMILAR CONDITION AT THE FOLLOWING LOCATIONS: 1) UP TO 1/8" CRACKS AND AREA OF DELAMINATION IN DOWNSTREAM FACE OF LEG 1 IN CHANNEL 2 OF SPAN 2 AT BENT 1; 2) 8" X 3" AREA OF DELAMINATION IN DOWNSTREAM FACE OF LEG 2 IN CHANNEL 8 OF SPAN 2 AT BENT 1; 3) UP TO 1/8" CRACKS AND 5" X 1" X 1/2" DEEP SPALL WITH EXPOSED REBAR IN DOWNSTREAM FACE OF LEG 1 IN CHANNEL 10 OF SPAN 2 AT BENT 1; 4) AREA OF DELAMINATION IN LEGS 1 AND 2 IN CHANNEL 8 OF SPAN 2 AT BENT 2; 5) AREA OF DELAMINATION IN UPSTREAM FACE OF LEG 2 IN CHANNEL 9 OF SPAN 2 AT BENT 2; 6) 30" X 2" AREA OF DELAMINATION IN DOWNSTREAM FACE OF LEG 1 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY MIDSPAN; 7) AREA OF DELAMINATION IN BOTTOM OF LEG 1 IN CHANNEL 9 OF SPAN 3 AT BENT 3; 8) AREA OF DELAMINATION IN UPSTREAM FACE OF LEG 2 IN CHANNEL 9 OF SPAN 3 AT BENT 3; 9) AREA OF DELAMINATION IN DOWNSTREAM FACE OF LEG 1 IN CHANNEL 2 OF SPAN 4 AT BENT 3; 10) AREA OF DELAMINATION IN DOWNSTREAM AND UPSTREAM FACES OF LEG 1 IN CHANNEL 3 OF SPAN 4 AT BENT 3; 11) AREA OF DELAMINATION IN DOWNSTREAM FACE AND BOTTOM OF LEG 1 IN CHANNEL 4 OF SPAN 4 AT BENT 3; 12) AREA OF DELAMINATION IN DOWNSTREAM AND UPSTREAM FACES OF LEG 1 IN CHANNEL 5 OF SPAN 4 AT BENT 3; 13) AREA OF DELAMINATION IN DOWNSTREAM FACE OF LEG 1 IN CHANNEL 8 OF	

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		
10A	NO	SPAN 4 AT BENT 3. FIVE (5) SPALLS UP TO 6" X 3" X 1/4" DEEP WITH EXPOSED REBAR IN THE UPSTREAM FACE OF LEG 1 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 10' FROM BENT 1 (SEE PHOTO). SIMILAR SPALLS IN THE BACK FACES OF THE CHANNEL LEGS THROUGHOUT THE STRUCTURE. EFFLORESCENCE SEEPAGE ON THE UPSTREAM FACE OF LEG 1 IN CHANNEL 10 OF SPAN 4 NEAR END BENT 2 (SEE PHOTO). HONEYCOMBING AND UP TO 3/16" LONGITUDINAL CRACK IN THE BOTTOM OF LEG 1 IN CHANNEL 10 OF SPAN 4 AT BENT 3, EXTENDING APPROXIMATELY 10' (SEE PHOTO). SIMILAR HONEYCOMBING ALONG LEG 1 OF CHANNEL 10 IN SPAN 3. EFFLORESCENCE SEEPAGE IN A REPAIR OF LEG 2 IN CHANNEL 5 OF SPAN 4 NEAR MIDSPAN (SEE PHOTO). NO CURVED GIRDERS.	
15	NA	BEARING ASSEMBLIES WERE GRADED DURING THE 2012 INSPECTION; HOWEVER, BEARING ASSEMBLIES ARE NOT PRESENT.	
35b	F	PRIORITY MAINTENANCE: 40" X 6" X 4" DEEP AREA OF DECAY IN THE UPSTREAM FACE OF PILE 5 AT BENT 1 (SEE PHOTO). 100% DECAY OF THE PILE AT THE UPSTREAM END OF END BENT 1 BULKHEAD (SEE PHOTO). UP TO 1/8" SPLIT IN SPAN 1 FACE OF PILE 4 AT BENT 1 (SEE PHOTO). SIMILAR SPLITS IN THE PILES AT VARIOUS LOCATIONS THROUGHOUT THE STRUCTURE. PILE 3 AT BENT 3 SOUNDS HOLLOW AT MID-HEIGHT. (NUMBERING INCLUDES NEW PILE) 20" X 3" X 1" DEEP AREA OF DECAY IN SPAN 3 FACE OF PILE 5 AT BENT 3 (SEE PHOTO). (NUMBERING INCLUDES NEW PILE) 24" X 14" X 1 1/2" DEEP AREA OF DECAY IN THE UPSTREAM END OF END BENT 1 BULKHEAD.	
35c	F		
39	NA	SLOPE PROTECTION WAS GRADED DURING THE 2012 INSPECTION; HOWEVER, SLOPE PROTECTION IS NOT PRESENT.	

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Team Leader K. Mobley			
Assisted By JWL			
Item No.	Grade		
50	F	ALLIGATOR CRACKS IN THE ASPHALT WEARING SURFACE AT THE SOUTH APPROACH (SEE PHOTO). TRANSVERSE CRACKS IN THE ASPHALT WEARING SURFACE ALONG BOTH END BENT FILL FACES. SEE PHOTO OF THE CRACK ALONG END BENT 1 FILL FACE. TRANSVERSE CRACKS IN THE ASPHALT WEARING SURFACE AT THE NORTH APPROACH (SEE PHOTO).	
61	YES	40" X 6" X 4" DEEP AREA OF DECAY IN THE UPSTREAM FACE OF PILE 5 AT BENT 1 NEAR MID-HEIGHT. 10" X 1" X 1" DEEP SPALL WITH EXPOSED STRAND IN THE BOTTOM OF LEG 2 IN CHANNEL 1 OF SPAN 2, APPROXIMATELY 10' FROM BENT 2. 30" X 2 1/2" X 3" DEEP SPALL WITH EXPOSED STRAND IN THE BOTTOM OF LEG 1 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 10' FROM BENT 1. 6" X 1" X 1/2" DEEP SPALL WITH EXPOSED STRAND IN THE UPSTREAM FACE OF LEG 2 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 3' FROM BENT 1.	
62	YES	SV 21 TTST 24	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 630143

County NASH

Date: 04/01/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3306	Maintain Concrete Superstructure Components	SF	1 TSE	30" X 2 1/2" X 3" DEEP SPALL WITH EXPOSED STRAND IN THE BOTTOM OF LEG 1 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 10' FROM BENT 1.	
 3306	Maintain Concrete Superstructure Components	SF	1 9/25/14	10" X 1" X 1" DEEP SPALL WITH EXPOSED STRAND IN THE BOTTOM OF LEG 2 IN CHANNEL 1 OF SPAN 2, APPROXIMATELY 10' FROM BENT 2.	
 3306	Maintain Concrete Superstructure Components	SF	1	6" X 1" X 1/2" DEEP SPALL WITH EXPOSED STRAND IN THE UPSTREAM FACE OF LEG 2 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 3' FROM BENT 1.	
 3344	Repair / Replace Timber Substructure Components	LF	1 TSE	40" X 6" X 4" DEEP AREA OF DECAY IN THE UPSTREAM FACE OF PILE 5 AT BENT 1 NEAR MID-HEIGHT.	
2816	Asphalt Surface Repair or Replacement	SY	50	CRACKS IN THE ASPHALT WEARING SURFACE AT BOTH APPROACHES, ALONG BOTH END BENT FILL FACES AND ALONG THE BENT JOINTS.	
3344	Repair / Replace Timber Substructure Components	LF	1	100% DECAY OF THE PILE AT THE UPSTREAM END OF END BENT 1 BULKHEAD.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	3	24" X 14" X 1 1/2" DEEP AREA OF DECAY IN THE UPSTREAM END OF END BENT 1 BULKHEAD.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 630143 County NASH

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Beams and Girders Bent/Span No. 2 LEG 1 IN CHANNEL 10		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
04/01/2014	K. Mobley	J. Lamb
Details		
30" X 2 1/2" X 3" DEEP SPALL WITH EXPOSED STRAND IN THE BOTTOM OF LEG 1 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 10' FROM BENT 1.		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Beams and Girders Bent/Span No. 2 LEG 2 OF CHANNEL 1		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
04/07/2014	K. Mobley	J. Lamb
Details		
10" X 1" X 1" DEEP SPALL WITH EXPOSED STRAND IN THE BOTTOM OF LEG 2 IN CHANNEL 1 OF SPAN 2, APPROXIMATELY 10' FROM BENT 2.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 630143

County NASH

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Beams and Girders Bent/Span No. 2 LEG 2 OF CHANNEL 10		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
04/07/2014	K. Mobley	J. Lamb
Details		
6" X 1" X 1/2" DEEP SPALL WITH EXPOSED STRAND IN THE UPSTREAM FACE OF LEG 2 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 3' FROM BENT 1.		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	4 LF
Location:		
Pier Substructure Bent/Span No. 1 PILE 5		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
04/01/2014	K. Mobley	J. Lamb
Details		
40" X 6" X 4" DEEP AREA OF DECAY IN THE UPSTREAM FACE OF PILE 5 AT BENT 1 NEAR MID-HEIGHT.		



ALLIGATOR CRACKS IN ASPHALT WEARING SURFACE AT SOUTH APPROACH



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



SILT ACCUMULATION ALONG UPSTREAM SHOULDER



TRANSVERSE CRACK IN ASPHALT WEARING SURFACE ALONG BENT 1



LONGITUDINAL CRACK IN ASPHALT WEARING SURFACE IN NORTHBOUND LANE OF SPAN 4



TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE AT NORTH APPROACH



100% DECAY OF PILE AT UPSTREAM END OF END BENT 1 BULKHEAD



UP TO 1/8" SPLIT IN SPAN 1 FACE OF PILE 4 AT BENT 1



30" X 2 1/2" X 3" DEEP SPALL WITH EXPOSED STRAND IN BOTTOM OF LEG 1 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 10' FROM BENT 1 (PRIORITY MAINTENANCE)



24" X 3" AREA OF DELAMINATION & 14" X 1" X 1/4" DEEP SPALL WITH EXPOSED REBAR IN BOTTOM & DOWNSTREAM FACE OF LEG 1 IN CHANNEL 4 OF SPAN 2 AT BENT 1



6" X 1" X 1/2" DEEP SPALL WITH EXPOSED STRAND IN UPSTREAM FACE OF LEG 2 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 3' FROM BENT 1 (PRIORITY MAINTENANCE)



FIVE (5) SPALLS UP TO 6" X 3" X 1/4" DEEP WITH EXPOSED REBAR IN UPSTREAM FACE OF LEG 1 IN CHANNEL 10 OF SPAN 2, APPROXIMATELY 10' FROM BENT 1



10" X 1" X 1" DEEP SPALL WITH EXPOSED STRAND IN BOTTOM OF LEG 2 IN CHANNEL 1 OF SPAN 2, APPROXIMATELY 10' FROM BENT 2 (PRIORITY MAINTENANCE)



40" X 6" X 4" DEEP AREA OF DECAY IN UPSTREAM FACE OF PILE 5 AT BENT 1 (PRIORITY MAINTENANCE)



EFFLORESCENCE SEEPAGE ON UPSTREAM FACE OF LEG 1 IN CHANNEL 10 OF SPAN 4 NEAR END BENT 2



20" X 3" X 1" DEEP AREA OF DECAY IN SPAN 3 FACE OF PILE 5 AT BENT 3



HONEYCOMBING AND UP TO 3/16" LONGITUDINAL CRACK IN BOTTOM OF LEG 1 IN CHANNEL 10 OF SPAN 4 AT BENT 3, EXTENDING APPROXIMATELY 10'

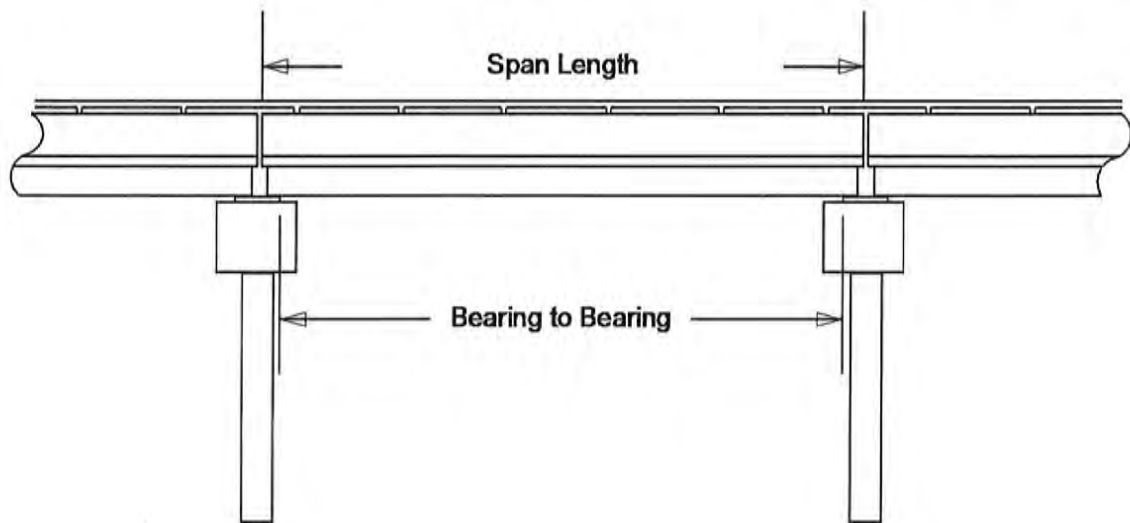


EFFLORESCENCE SEEPAGE IN REPAIR OF LEG 2 IN CHANNEL 5 OF SPAN 4 NEAR MIDSPAN

Structure Data Worksheet

Spans

County: NASH Structure No: 630143 Date: 04/01/2014 Inspected By: KMM



Span No	Span Length	Bearing to Bearing	Comments
1	30.5	29.58	NBIS: 118.33
2	30.0	29.5	
3	30.0	29.5	
4	30.5	29.58	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 630143 County: NASH Date: 04/01/2014 By: KMM

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

Distance from Highwater Mark to top of rail: 10 Location of Highwater Mark: STAINS ON PILES

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.7	TOP OF WINGWALL			
0.1	4.3	Top of Cap			
1	4.3	Top of Cap			
1.1	5.2	GROUND AT CAP	1.1	5	GROUND AT CAP
10	7.5	GROUND			
20	11	GROUND			
29	14	GROUND			
29.5	15.8	Water Surface/Water Edge (WSWE)			
30	16.2	BENT 1	30	14.1	BENT 1
40	17.8	STREAMBED			
50	17.5	STREAMBED			
60	18	BENT 2	60	18.5	BENT 2
68	18.7	STREAMBED			
75	18.4	STREAMBED			
81	15.8	Water Surface/Water Edge (WSWE)			
83	13.7	GROUND			
89	14	GROUND			
90	14.6	BENT 3	90	14.9	BENT 3
93	14.2	GROUND			
100	11.8	GROUND			
110	8.9	GROUND			
119	5.6	GROUND AT CAP	119	6.8	GROUND AT CAP
119.1	4.3	Top of Cap			
120	4.3	Top of Cap			
120.1	2.9	TOP OF WINGWALL			

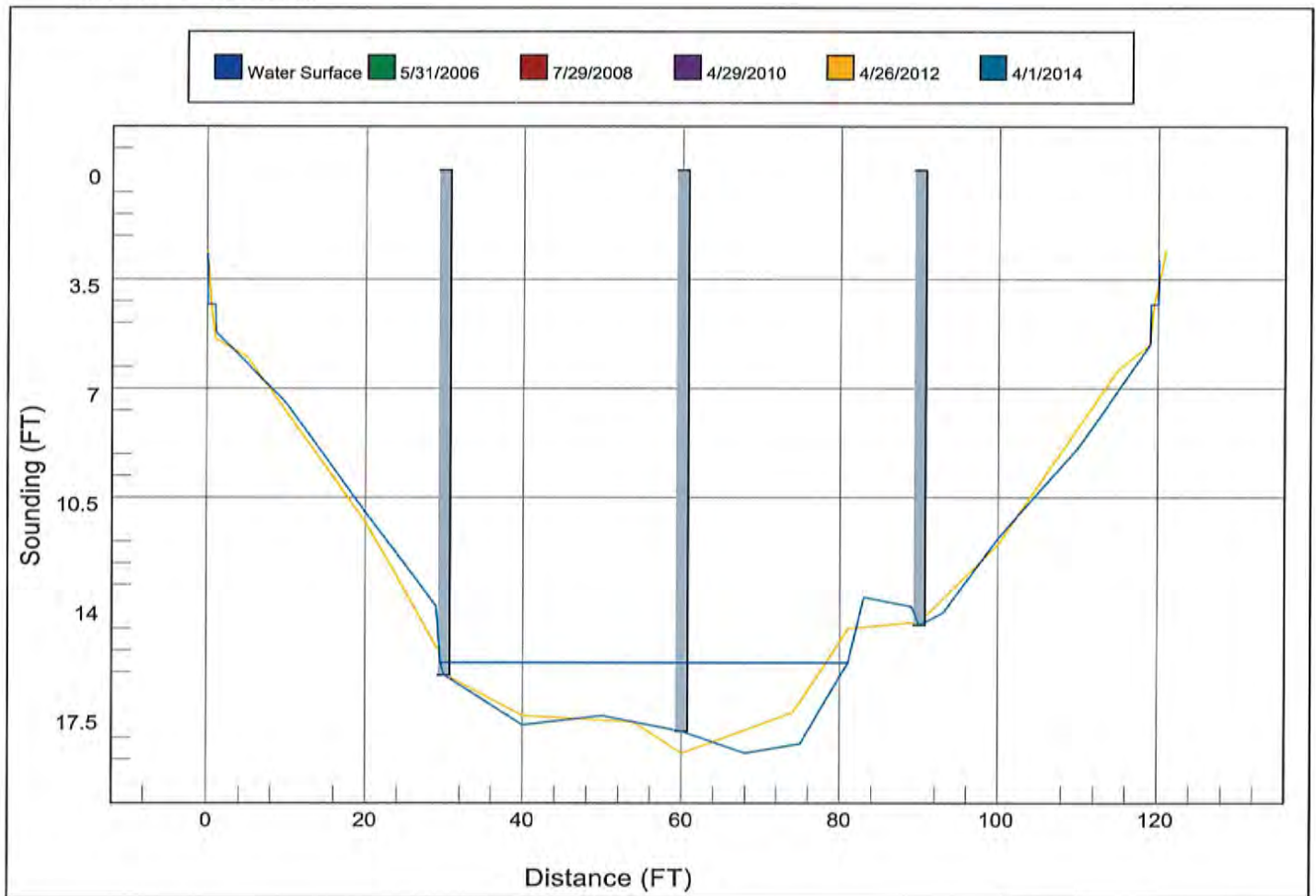
Bridge: 630143

County NASH

Date: 04/01/2014

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



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 4.1.14

Title

APPROACH ROADWAY

Description

LOOKING NORTH

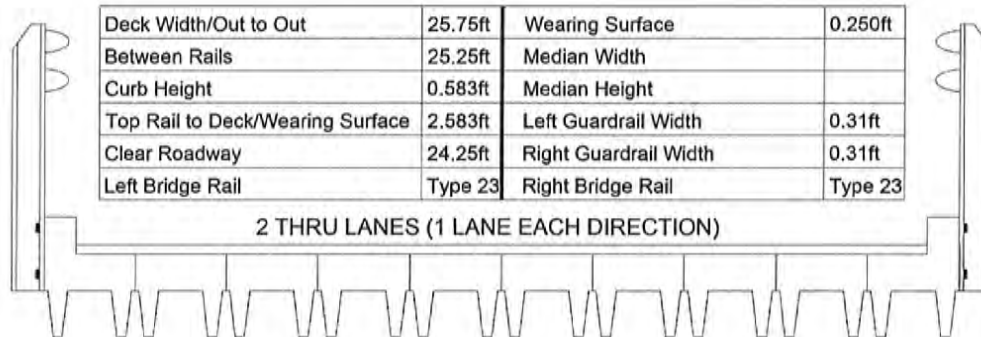
Bridge No: 630143

Drawn By: VMH

Date: 4/26/12

File Name: S0026002371

Bridge Inspection Field Sketch



Measurements for Spans #	1 thru 4		
Deck Thickness	0.417	Left Overhang	N/A
Top of Rail to Bottom of Beam	4.3332	Right Overhang	N/A

No. of Channels	10
Leg Width	0.208ft
Leg Height	1.0ft
Leg to Leg (Centers)	2.0ft
Channel Width	2.642ft
Channel Height	1.417ft
Comments	

SKETCH REVISED BY JWL ON 4.1.14

Title

TYPICAL SECTION

Description

10 PRESTRESSED CHANNELS

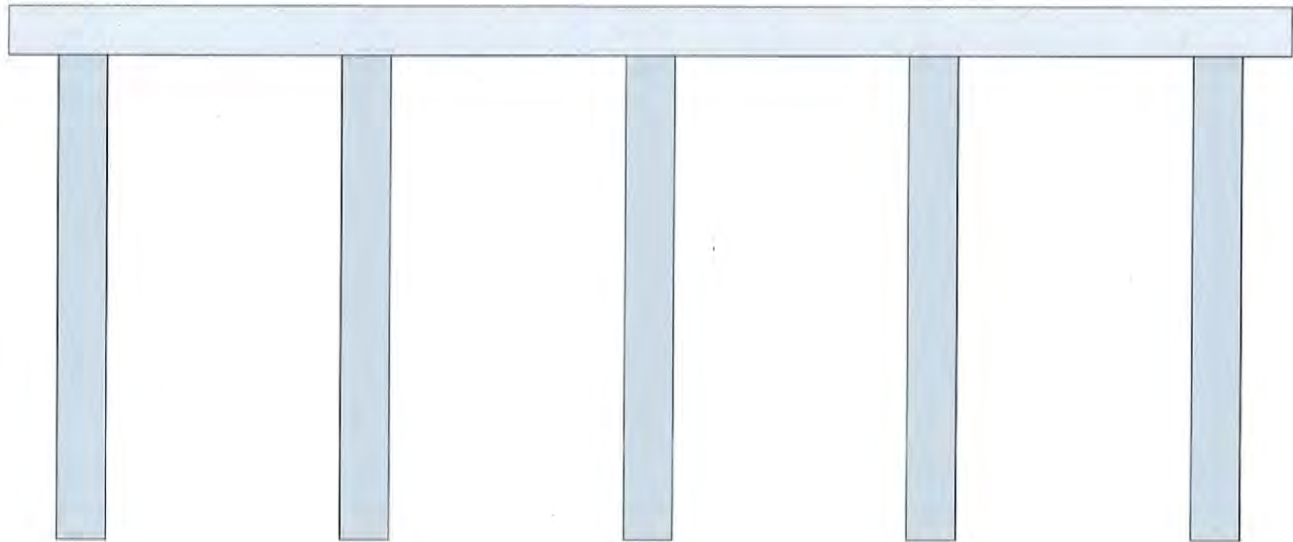
Bridge No: 630143

Drawn By: VMH

Date: 4/30/10

File Name: S0026002372

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.000 ft.	1.333 ft.	1.000 ft.	1.500 ft.	1.500 ft.	1.583 ft.	1.583 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	5.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
2	Timber	5.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
3	Timber	5.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
4	Timber	5.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
5	Timber		1.0 ft.			Vertical	Yes	No	No	No
End Bent #: 1			Similar Bents: Bent 1 and End Bent 2							

Note: Bent 1 has 10" x 3" cross-bracing

SKETCH REVISED BY JWL ON 4.1.14

Title

END BENT PROFILE

Description

END BENTS AND BENT 1

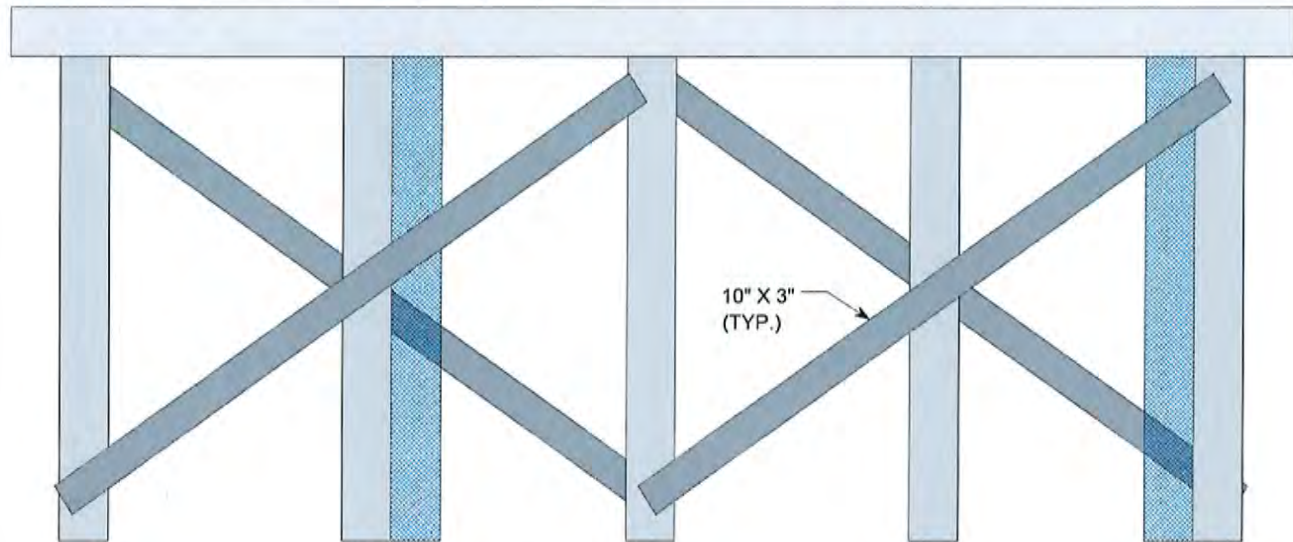
Bridge No: 630143

Drawn By: VMH

Date: 4/30/10

File Name: S0026002373

Bridge Inspection Field Sketch

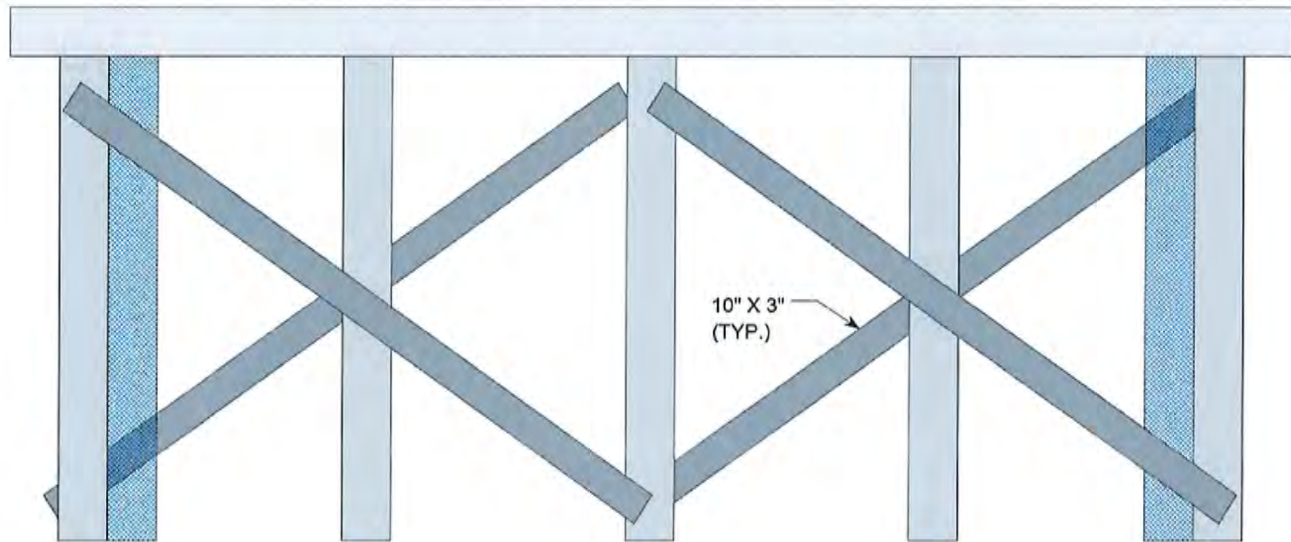


Cap Information			Material Precast Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.000 ft.	1.333 ft.	1.000 ft.	1.500 ft.	1.500 ft.	1.583 ft.	1.583 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	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	5.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
2	Timber	1.0 ft.	1.0 ft.			Vertical	Yes	No	No	No
3	Timber	4.75 ft.	1.0 ft.	1.0 ft.		Vertical	No	Yes	No	No
4	Timber	5.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
5	Timber	4.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
6	Timber	1.0 ft.	1.0 ft.	1.0 ft.		Vertical	No	Yes	No	No
7	Timber		1.0 ft.			Vertical	Yes	No	No	No
Bent #: 2										

SKETCH REVISED BY JWL ON 4.1.14

Title		Description	
BENT 2 PROFILE		BENT 2	
Bridge No: 630143	Drawn By: VMH	Date: 4/30/10	File Name: S0026002374

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.000 ft.	1.333 ft.	1.000 ft.	1.500 ft.	1.500 ft.	1.583 ft.	1.583 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	1.0 ft.	1.0 ft.			Vertical	Yes	No	No	No
2	Timber	4.75 ft.	1.0 ft.	1.0 ft.		Vertical	No	Yes	No	No
3	Timber	5.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
4	Timber	5.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
5	Timber	4.75 ft.	1.0 ft.			Vertical	Yes	No	No	No
6	Timber	1.0 ft.	1.0 ft.	1.0 ft.		Vertical	No	Yes	No	No
7	Timber		1.0 ft.			Vertical	Yes	No	No	No
Bent #: 3										

SKETCH REVISED BY JWL ON 4.1.14

Title		Description	
BENT 3 PROFILE		BENT 3	
Bridge No: 630143	Drawn By: VMH	Date: 4/30/10	File Name: S0026002375



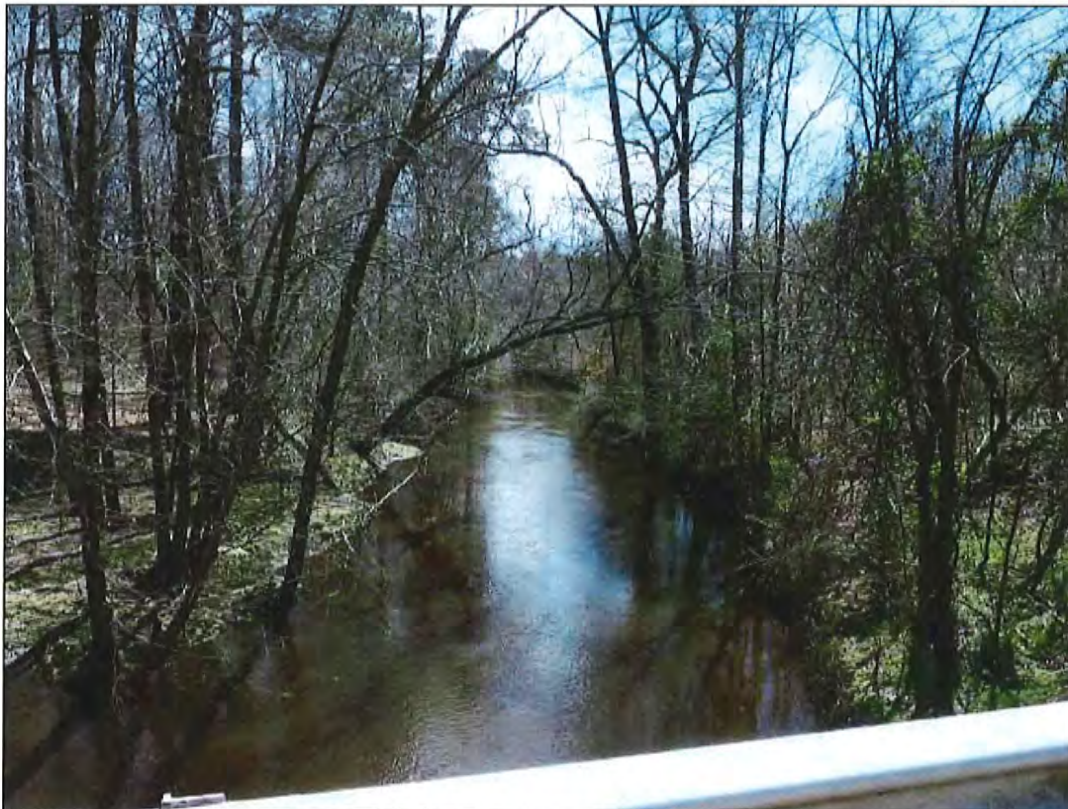
LOOKING NORTH



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



UPSTREAM PROFILE, LOOKING NORTHEAST



END BENT 1, END BENT 2 SIMILAR



SPAN 1 UNDERDECK, OTHERS SIMILAR



BENT 1



DOWNSTREAM PROFILE, LOOKING NORTHWEST



BENT 2



BENT 3, LOOKING SOUTHEAST