



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE
TEMPORARY BENTS STILL IN PLACE

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY WILKES BRIDGE NUMBER 960106 INSPECTION CYCLE 0 YRS

ROUTE SR1300 ACROSS N.PRONG LEWIS FORK CREEK M.P. 0

0.3 MILE SOUTHEAST OF JUNCTION WITH SR1360

LOCATION .3 MI.SE.JCT.SR1360

SUPERSTRUCTURE STEEL PLANK FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS:TIM CAPS/P&S;INT.BTS:TIM CAPS/TIM POST&CONC.SILLS

1 @ 40'-4"; 2 @ 40'-0"

SPANS 1 @ 40'-4";1 @ 40';1 @ 40'-4

LONGITUDE 81° 21' 29.91" **81° 21' 29.80"** LATITUDE 36° 12' 47.96" **36° 12' 48.00"**

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 11/09/2012

OPERATING RATING

PRESENT POSTING SV 22 TTST 27

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT (4) DELINEATORS



LOOKING EAST

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: 12/17/2012

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	960106		SUFFICIENCY RATING =	22.36
(8) STRUCTURE NUMBER(FEDERAL)		000000001930106		STATUS =	Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013000			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3			
(3) COUNTY CODE	193	(4) PLACE CODE	0		
(6) FEATURE INTERSECTED -	N.PRONG LEWIS FORK CREEK				
(7) FACILITY CARRIED	SR1300				
(9) LOCATION	.3 MI.SE.JCT.SR1360				
(11)MILEPOINT		0			
(16)LAT	36° 12' 47.96"	(17)LONG	81° 21' 29.91"		
(98)BORDER BRIDGE STATE CODE		PCT SHARE			
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) STRUCTURE TYPE MAIN:	Steel			(112)NBIS BRIDGE SYSTEM -	YES
TYPE -	Stringer Mutlibeam or Girder	CODE	302	(104)HIGHWAY SYSTEM	Is not on NHS 0
(44) STRUCTURE TYPE APPR :				(26) FUNCTIONAL CLASS -	Local 09
TYPE -		CODE	000	(100)STRAHNET HIGHWAY -	Not a STRAHNET Route 0
(45) NUMBER OF SPANS IN MAIN UNIT		3		(101)PARALLEL STRUCTURE -	No Parallel Structure N
(46) NUMBER OF APPROACH SPANS				(102)DIRECTION OF TRAFFIC -	2-way Traffic 2
(107)DECK STRUCTURE TYPE -	6	CODE		(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions T
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network 0
(A) TYPE OF WEARING SURFACE -		CODE		(20) TOLL	On Free Road 3
(B) TYPE OF MEMBRANE -		CODE		(31) MAINTAIN -	State Highway Agency 01
(C) TYPE OF DECK PROTECTION -		CODE		(22) OWNER -	State Highway Agency 01
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible 5
				CONDITION	
				(58) DECK	5
				(59) SUPERSTRUCTURE	5
				(60) SUBSTRUCTURE	3
				(61) CHANNEL & CHANNEL PROTECTION	7
				(62) CULVERTS	N
				LOAD RATING AND POSTING	
				(31) DESIGN LOAD	Unknown 0
				(63) OPERATING RATING METHOD -	Load Factor
				(64) OPERATING RATING -	HS-1 101
				(65) INVENTORY RATING METHOD -	Load Factor
				(66) INVENTORY RATING -	HS-1 101
				(70) BRIDGE POSTING -	Posting Required 0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P
				DESCRIPTION -	Posted for Load
				APPRAISAL	
				(67) STRUCTURAL EVALUATION	3
				(68) DECK GEOMETRY	4
				(69) UNDERCLEARANCES,VERTI & HORIZ	N
				(71) WATERWAY ADEQUACY	7
				(72) APPROACH ROADWAY ALIGNMENT	8
				(36) TRAFFIC SAFETY FEATURES	0000
				(113)SCOUR CRITICAL BRIDGES	U
				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	920
				(115) YEAR FUTURE ADT	2025
				INSPECTIONS	
				(90) INSPECTION DATE	11/09/2012
				(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
				A) FRACTURE CRIT DETAIL -	NO A)
				B) UNDERWATER INSP -	NO B)
				C) OTHER SPECIAL INSP	NO C)
				SCOUR	
AGE AND SERVICE					
(27) YEAR BUILT		1961			
(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			460		
(30) YEAR OF ADT	2010	(109) TRUCK ADT PCT	6%		
(19) BYPASS OR DETOUR LENGTH			25 MI		
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN			40 FT		
(49) STRUCTURE LENGTH			120 FT		
(50)CURB OR SIDEWALK: LEFT	.2 FT	RIGHT	.2 FT		
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			24 FT		
(52) DECK WIDTH OUT TO OUT			24.417 FT		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			18 FT		
(33) BRIDGE MEDIAN -	No Median	CODE	0		
(34) SKEW	30°	(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		

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 12/17/2012

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
WILKES	11	3	960106	120	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1300	N.PRONG LEWIS FORK CREEK

LOCATED :	BRIDGE NAME :	CITY :
.3 MI.SE.JCT.SR1360		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	460 2010	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1961	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	UNDER :
			TAN	60	ON 2	0

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT 16 FT 2 FT		

SUPERSTRUCTURE : STEEL PLANK FLOOR ON I-BEAMS

SUBSTRUCTURE : E.BTS:TIM CAPS/P&S;INT.BTS:TIM CAPS/TIM POST&CONC.SILLS

SPANS : 1 @ 40'-4"; 2 @ 40'

BEAMS OR GIRDERS : 10 LINES 18 I-BEAMS @ 2'-7 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
STL.PLK/3 AWS		24.417 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	24.5 FT	LT .2 FT RT .2 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	int bm2	SV 13	16	12/14/2012

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. 960106

COUNTY WILKES

ROUTE SR1300

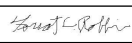
OVER N.PRONG LEWIS FORK CREEK

STRUCTURE TYPE STEEL PLANK FLOOR ON I-BEAMS

ROUTE ORIENTATION W - E

SPANS 1 @ 40'-4;1 @ 40';1 @ 40'-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			G	a. WATERWAY			G
				b. ALIGNMENT			G
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58				c. SCOUR			G
a. CONCRETE				d. SLOPE PROT., RIP-RAP, DIKES, ETC.			G
b. TIMBER				50. APPROACH ROADWAY CONDITION			G
c. STEEL PLANK			3	51. APPROACH SLABS			
d. OPEN GRID				52. PAINT SYSTEM			CODE A F
3. RAILING				53. UTILITIES			
a. CONCRETE				54. RESPONSE TO LIVE LOAD			G
b. TIMBER				55. ESTIMATED REMAINING LIFE			13
c. ALUMINUM							
d. STEEL			F				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			F	60. REGULATORY SIGN NOTICE ISSUED			NO
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				61. PROMPT-ACTION NOTICE ISSUED			YES
6. DECK EXP JTS. OR DEVICES. NO. OF EACH				62. PRESENTLY POSTED			YES
a. STEEL PL OR FINGER				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			12
b. MISC PREFAB				64. TOTAL SNOOPER INSP. TIME (HRS)			0
c. COMPRESSION SEAL				65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0
d. STANDARD JOINTS							
e. OPEN JOINTS							
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			F				
				70. SI&A GENERAL CONDITION RATINGS			
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				a. DECK			ITEM 58 5
10. LONGITUDINAL BEAMS OR GIRDERS			F	b. SUPERSTRUCTURE			ITEM 59 5
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE			ITEM 60 5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			G	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)			F	a. WATERWAY ADAQUACY			7
16. DRAINAGE SYSTEM (ON STRUCTURE)			F	b. APPR. RDWY. ALIGNMENT			8
17. MOVABLE SPAN MACHINERY							
				72. FIELD SCOUR EVALUATION			B
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)							
35. TIM SUB STR.				USE OF INSP. ACCESSIBILITY EQUIPMENT			
a. ABUT. & INT. BENT CAPS & RISERS			F	SNOOPER (CODE S, 4, OR N)			HRS NO
b. PILES, POST, SILLS, & BRACING			F	LADDER			YES
c. BULKHEADS, WING'S, & TIE BACKS			P	BUCKET TRUCK			NO
36. CONC SUB STR.				BOAT			NO
a. ABUT. & INT. BENT CAPS				OTHER			NO
b. ABUT. & BENT COL'S BREASTWALLS							
c. ABUT. & INT. BENT PILES							
d. BACKWALLS, WING'S, RETAIN. WALLS							
e. ABUT. & BENT FOOTINGS & SILLS			F				
37. STEEL SUB STR.				SPECIAL INSPECTION REQUESTED FOR			
a. ABUT. & INT. BENT CAPS & RISERS							
b. PILES, BRACING, AND BULKHEADS							
38. FOUNDATION PILES TYPE MATERIAL				NOTE			
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)			G				
40. FENDER SYSTEMS				80. INSPECTED BY:			
41. DRIFT			G	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 FORREST E. ROBBINS			
Assisted By JWT			
Item No.	Grade		
1	G	(3) 12' LONG TRANSVERSE CRACKS UP TO 1/4" IN ASPHALT WEARING SURFACE OVER BENT 1. (BENT 2 SIMILAR) 32" X 6' AREA OF SETTLEMENT UP TO 1" AND POTHOLE IN ASPHALT WEARING SURFACE AT CENTERLINE OF BRIDGE, OVER END BENT 1. FULL WIDTH TRANSVERSE CRACK IN ASPHALT WEARING SURFACE UP TO 1/2" OVER END BENT 1. RANDOM TRANSVERSE HAIRLINE CRACKS IN ASPHALT WEARING SURFACE ALONG SOUTH CURB, SPAN 3.	
2c	F	HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK, BAY 1, SPAN 1, (SIMILAR FULL-LENGTH OF STRUCTURE) (PRIORITY MAINTENANCE) HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK, BAY 9, SPAN 1, (SIMILAR FULL-LENGTH OF STRUCTURE) (PRIORITY MAINTENANCE) RANDOM SURFACE RUST WITH SCALE UNDERSIDE OF STEEL PLANK DECK OVER BENT 1 WITH SOME SECTION LOSS. (SIMILAR OVER BENT 2).	
3d	F	4' IMPACT DAMAGE ON NORTH BRIDGE RAIL, 10' FROM END BENT 1, SPAN 1. PAINT PEELING AND FLAKING THROUGHOUT BOTH RAILS AND RAIL POSTS UP TO 50%.	
4	F	PAINT PEELING AND FLAKING ON CURBS UP TO 50% THROUGHOUT.	
7	F	DIRT AND DEBRIS ALONG BOTH CURBS UP TO 2' WIDE.	
10	F	HEAVY RUST SCALE ALONG TOP AND BOTTOM FLANGES OF BEAM 1 WITH SOME SECTION LOSS IN ALL SPANS. (BEAM 10 SIMILAR)	
10A	NO	NO CURVED GIRDERS.	
16	F	DECK DRAINS PLUGGED UP TO 75% DUE TO DIRT AND DEBRIS ALONG CURBS.	
52	F	PAINT PEELING AND FLAKING ON BEAMS 1 AND 10, AND ON UNDERSIDE OF STEEL PLANK DECK.	
35a	F	END BENT 2 CAP HAS END DECAY ON NORTH END UP TO 14" DEEP.	
35b	F	BOTTOM 2' OF PILE 1 AT BENT 2 IS COMPLETELY DECAYED. (NEW PILE HAS BEEN ADDED NEXT TO PILE 1)	

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 FORREST E. ROBBINS			
Assisted By JWT			
Item No.	Grade		
35c	P	5' X 8" AREA OF DECAY IN END BENT 1 BULKHEAD FROM PILES 1 TO 3 WITH SOIL SPILLING THROUGH. (PRIORITY MAINTENANCE) 9' X 8" AREA OF DECAY ON TOP BOARD AT END BENT 2 BULKHEAD, OUTSIDE BEAM 1 TO BAY 2 WITH SOIL COMING THROUGH. (PRIORITY MAINTENANCE) NORTHWEST WINGWALL PILE COMPLETELY DECAYED ABOVE GROUND. 2' X 2' AREA OF DECAY, BOTTOM OF NORTHEAST WINGWALL. 11' X 8" DECAY BEHIND PILE 1 IN END BENT 2 BULKHEAD, 3RD BOARD BELOW CAP 3' X 8" AREA OF DECAY IN END BENT 2 BULKHEAD OUTSIDE OF PILE 1, 6TH BOARD BELOW CAP. 4' X 8" AREA OF DECAY IN END BENT 2 BULKHEAD OUTSIDE PILE 8, 9TH BOARD DOWN. TOP 3' OF PILE 2 IN SOUTHEAST WINGWALL IS SPLIT OFF. 7' X 8" AREA OF DECAY IN SOUTHEAST WINGWALL, 7TH BOARD DOWN. 4' X 8" AREA OF DECAY IN END BENT 2 BULKHEAD OUTSIDE PILE 8, 5TH BOARD DOWN.	
36e	F	16' OF BENT 1 FOOTING EXPOSED WITH HEAVY SCALE AT DOWNSTREAM END. FULL LENGTH OF BENT 2 FOOTING EXPOSED, SPAN 2 SIDE WITH UP TO 12" UNDERMINING BELOW PILE 1. FULL HEIGHT VERTICAL CRACK UP TO 1/8" ON NORTH END OF BENT 2 SILL, EXTENDS ON TOP TO PILE 1.	
50	G	FULL WIDTH TRANSVERSE CRACK UP TO 1/4" IN ASPHALT WEARING SURFACE IN WEST APPROACH, APPROXIMATELY 7' FROM END BENT 1. SETTLEMENT UP TO 1-1/2" IN WEST APPROACH AT END BENT 1, WEST BOUND LANE. 6" X 44" POTHOLE IN ASPHALT WEARING SURFACE OVER END BENT 1, CENTER OF WEST BOUND LANE. EAST APPROACH HAS SETTLEMENT UP TO 1/2" OVER END BENT 2, EAST BOUND LANE. FULL WIDTH TRANSVERSE CRACK UP TO 1/4" IN ASPHALT WEARING SURFACE, 7' FROM END BENT 2, EAST APPROACH.	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 960106

County WILKES

Date: 11/09/2012

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	360	HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK IN BAY 1, SPAN 1' (SIMILAR FULL-LENGTH OF STRUCTURE)	
 3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	360	HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK IN BAY 9, SPAN 1. (SIMILAR FULL-LENGTH OF STRUCTURE)	
 3344	Repair / Replace Timber Substructure Components	LF	5	5' X 8" AREA OF DECAY IN END BENT 1 BULKHEAD FROM PILES 1 TO 3 WITH SOIL SPILLING THROUGH.	
 3344	Repair / Replace Timber Substructure Components	LF	9	9' X 8" AREA OF DECAY ON TOP BOARD AT END BENT 2 BULKHEAD, OUTSIDE BEAM 1 TO BAY 2 WITH SOIL COMING THROUGH.	
3322	Maint to Steel Handrail	LF	240	CLEAN AND PAINT BRIDGE RAILS	
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	200	REPAIR RUSTED STEEL PLANK DECK ALONG EXTERIOR BEAMS AND ALONG END BENTS	
3346	Repair / Maintain Timber Wings & Blkhds	SF	75	REPAIR DECAYED BULKHEADS AND WINGWALLS	
3376	Clean/Wash Bridge Decks	SF	480	CLEAN DECK DEBRIS ALONG CURBS	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960106

County WILKES

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

MMS Code	MMS Description	Quantity
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	360 SF
Location:		
Deck Structure Type	Bent/Span No. 1	STEEL PLANK DECK
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
11/12/2012	FORREST E. ROBBINS	J. WES TAYLOR
Details		
HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK IN BAY 1, SPAN 1' (SIMILAR FULL-LENGTH OF STRUCTURE)		

MMS Code	MMS Description	Quantity
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	360 SF
Location:		
Deck Structure Type	Bent/Span No. 1	STEEL PLANK DECK
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
11/12/2012	FORREST E. ROBBINS	J. WES TAYLOR
Details		
HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK IN BAY 9, SPAN 1. (SIMILAR FULL-LENGTH OF STRUCTURE)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960106

County WILKES

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	5 LF
Location:		
Abutment Substructure	Bent/Span No. 1	END BENT 1 TIMBER BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
11/12/2012	FORREST E. ROBBINS	J. WES TAYLOR
Details		
5' X 8" AREA OF DECAY IN END BENT 1 BULKHEAD FROM PILES 1 TO 3 WITH SOIL SPILLING THROUGH.		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	9 LF
Location:		
Abutment Substructure	Bent/Span No. 2	END BENT 2 TIMBER BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
11/12/2012	FORREST E. ROBBINS	J. WES TAYLOR
Details		
9' X 8" AREA OF DECAY ON TOP BOARD AT END BENT 2 BULKHEAD, OUTSIDE BEAM 1 TO BAY 2 WITH SOIL COMING THROUGH.		



HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK, BAY 1, SPAN 1, (SIMILAR FULL-LENGTH OF STRUCTURE) (PRIORITY MAINTENANCE)



HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK, BAY 1, SPAN 1, (SIMILAR FULL-LENGTH OF STRUCTURE) (PRIORITY MAINTENANCE)



HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK, BAY 1, SPAN 1, (SIMILAR FULL-LENGTH OF STRUCTURE) (PRIORITY MAINTENANCE)



HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK, BAY 9, SPAN 1, (SIMILAR FULL-LENGTH OF STRUCTURE) (PRIORITY MAINTENANCE)



HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK, BAY 9, SPAN 1, (SIMILAR FULL-LENGTH OF STRUCTURE) (PRIORITY MAINTENANCE)



HEAVY RUST SCALE WITH COMPLETE SECTION LOSS ON UNDERSIDE OF STEEL PLANK DECK, BAY 9, SPAN 1, (SIMILAR FULL-LENGTH OF STRUCTURE) (PRIORITY MAINTENANCE)



5' X 8" AREA OF DECAY IN END BENT 1 BULKHEAD FROM PILES 1 TO 3 WITH SOIL SPILLING THROUGH.
(PRIORITY MAINTENANCE)



9' X 8" AREA OF DECAY ON TOP BOARD AT END BENT 2 BULKHEAD, OUTSIDE BEAM 1 TO BAY 2 WITH SOIL COMING THROUGH. (PRIORITY MAINTENANCE)



9' X 8" AREA OF DECAY ON TOP BOARD AT END BENT 2 BULKHEAD, OUTSIDE BEAM 1 TO BAY 2 WITH SOIL COMING THROUGH. (PRIORITY MAINTENANCE)



9' X 8" AREA OF DECAY ON TOP BOARD AT END BENT 2 BULKHEAD, OUTSIDE BEAM 1 TO BAY 2 WITH SOIL COMING THROUGH. (PRIORITY MAINTENANCE)



SETTLEMENT UP TO 1 1/2" IN WEST APPROACH AT END BENT 1, WEST BOUND LANE.



6" X 44" POTHOLE IN ASPHALT WEARING SURFACE OVER END BENT 1, CENTER OF WEST BOUND LANE.



4' IMPACT DAMAGE ON NORTH BRIDGE RAIL, 10' FROM END BENT 1, SPAN 1.



DIRT AND DEBRIS ALONG BOTH CURBS UP TO 2' WIDE.



(3) 12' LONG TRANSVERSE CRACKS UP TO 1/4" IN ASPHALT WEARING SURFACE OVER BENT 1. (BENT 2 SIMILAR)



32" X 6' AREA OF SETTLEMENT UP TO 1" AND POT HOLE IN ASPHALT WEARING SURFACE AT CENTERLINE OF BRIDGE, OVER END BENT 1.



NORTHWEST WINGWALL PILE COMPLETELY DECAYED ABOVE GROUND.



16' OF BENT 1 FOOTING EXPOSED WITH HEAVY SCALE AT DOWNSTREAM END.



RANDOM SURFACE RUST WITH SCALE UNDERSIDE OF STEEL PLANK DECK OVER BENT 1 WITH SOME SECTION LOSS. (SIMILAR OVER BENT 2).



FULL LENGTH OF BENT 2 FOOTING EXPOSED, SPAN 2 SIDE WITH UP TO 12" UNDERMINING BELOW PILE 1.



BOTTOM 2' OF PILE 1 AT BENT 2 IS COMPLETELY DECAYED.



FULL HEIGHT VERTICAL CRACK UP TO 1/8" ON NORTH END OF BENT 2 SILL, EXTENDS ON TOP TO PILE 1.



2' X 2' AREA OF DECAY, BOTTOM OF NORTHEAST WINGWALL.



11' X 8" DECAY BEHIND PILE 1 IN END BENT 2 BULKHEAD, 3RD BOARD BELOW CAP



3' X 8" AREA OF DECAY IN END BENT 2 BULKHEAD OUTSIDE OF PILE 1, 6TH BOARD BELOW CAP.



END BENT 2 CAP HAS END DECAY ON NORTH END UP TO 14" DEEP.



4' X 8" AREA OF DECAY IN END BENT 2 BULKHEAD OUTSIDE PILE 8, 9TH BOARD DOWN.



TOP 3' OF PILE 2 IN SOUTHEAST WINGWALL IS SPLIT OFF.



7' X 8" AREA OF DECAY IN SOUTHEAST WINGWALL, 7TH BOARD DOWN.

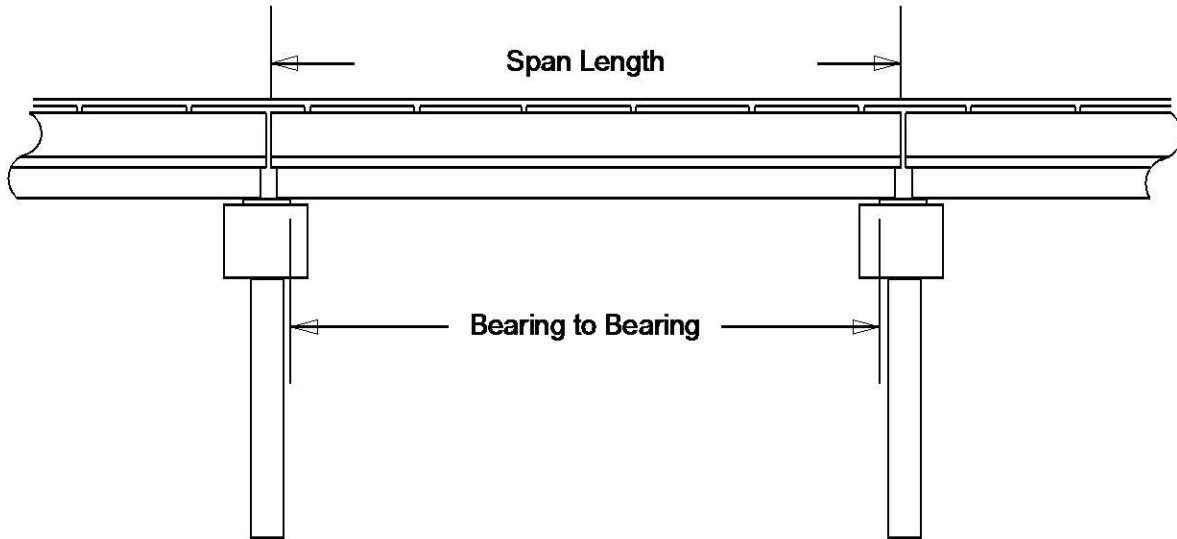


4' X 8" AREA OF DECAY IN END BENT 2 BULKHEAD OUTSIDE PILE 8, 5TH BOARD DOWN.

Structure Data Worksheet

Spans

County: WILKES Structure No: 960106 Date: 11/09/2012 Inspected By: FER



Span No	Span Length	Bearing to Bearing	Comments
1	40.33	39.83	
2	40.0	39.83	
3	40.0	39.25	NBIS LENGTH = 117'-10"

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 960106 County: WILKES Date: 11/09/2012 By: FER

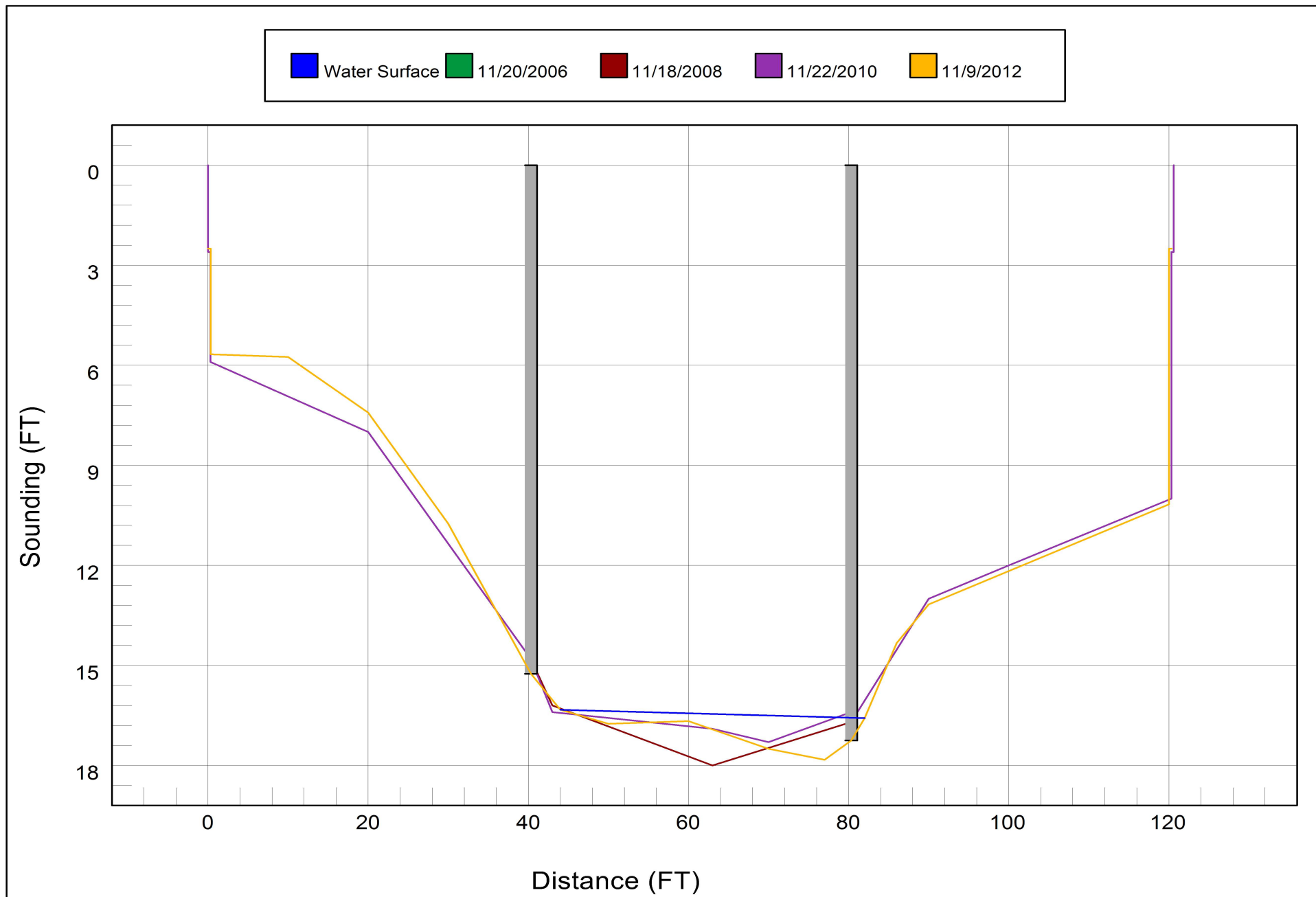
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 13.5 Location of Highwater Mark: STAINS ON SILLS

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.5				
0.33	2.5				
0.34	5.67		0.34	7.58	
10	5.75				
20	7.42				
30	10.75				
40.33	15.25	BENT 1	40.33	14.5	BENT 1
44	16.33	Water Surface/Water Edge (WSWE)			
50	16.75				
60	16.67				
70	17.5				
77	17.83				
80.33	17.25	BENT 2	80.33	16.5	BENT 2
82	16.58	Water Surface/Water Edge (WSWE)			
86	14.33				
90	13.17				
100	12.17				
120	10.17		120	9.75	
120.01	2.5				
120.33	2.5				

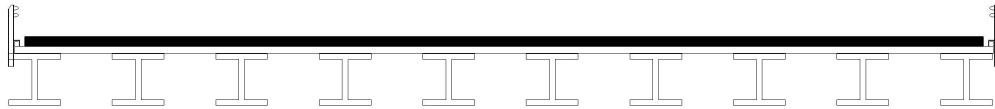
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



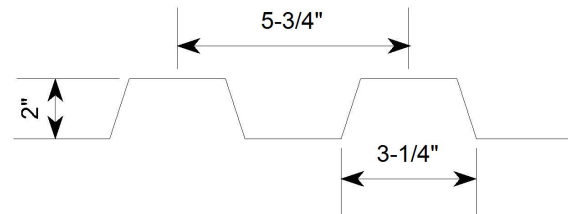
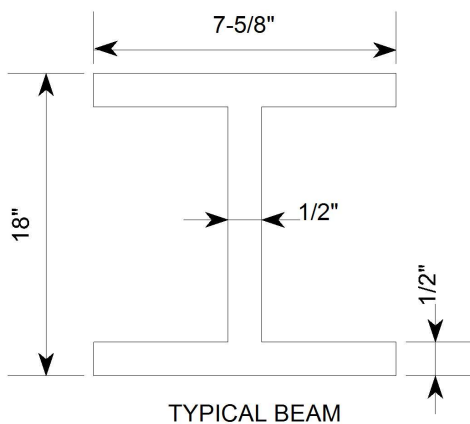
Bridge Inspection Field Sketch

Deck Width/Out to Out	24.417ft	Between Rails			24.5ft
Clear Roadway	24ft	Wearing Surface			0.25ft
Median Width		Median Height			
Curb Height		Left	0.417ft	Right	0.417ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	0.75ft	Right	0.75ft
Top of Rail to Deck/Wearing Surface		Left	2.25ft	Right	2.25ft
Bridge Rail		Left	Type 23	Right	Type 23



Measurements for Span #	1	SPANS 2 AND 3 SIMILAR	
Deck Thickness	0.167	Left Overhang	0.5
Top of Rail to Bottom of Beam	4.33	Right Overhang	0.5

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.583ft	
2	Steel I Beam	2.583ft	
3	Steel I Beam	2.583ft	
4	Steel I Beam	2.583ft	
5	Steel I Beam	2.583ft	
6	Steel I Beam	2.583ft	
7	Steel I Beam	2.583ft	
8	Steel I Beam	2.583ft	
9	Steel I Beam	2.583ft	
10	Steel I Beam	ft	



STEEL PLANK DECK

Title

TYPICAL SECTION

Description

SPAN 1, LOOKING EAST

Bridge No: 960106

Drawn By: JWT

Date: 11/12/2012

File Name: S0126001198

Bridge Inspection Field Sketch

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Title		Description	
Bridge No: 960106	Drawn By:	Date:	File Name: S0126001199

Bridge Inspection Field Sketch

SR 1300



Roadway	22ft Wide	2 Paved Lanes	Looking East
Left Shoulder	3ft Wide		3ft Unpaved
Right Shoulder	3ft Wide		3ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPROACH ROADWAY

Description

WEST APPROACH, LOOKING EAST

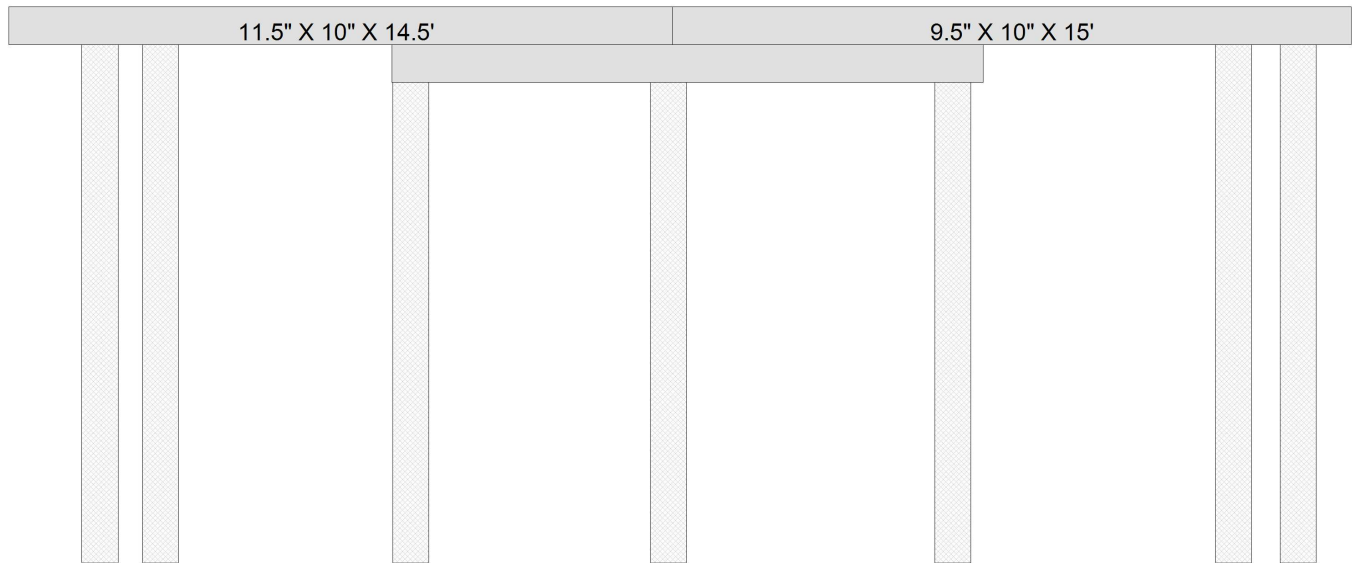
Bridge No: 960106

Drawn By: JWT

Date: 11/12/2012

File Name: S0130001369

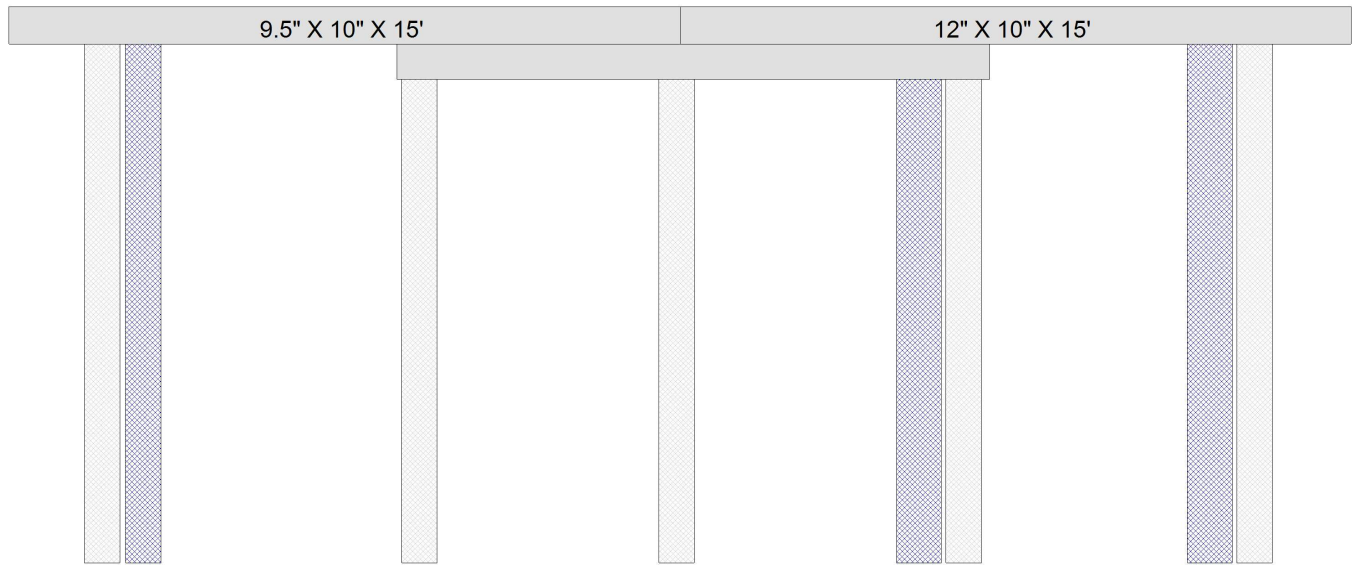
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.			Right Beam to End of Cap.		
29.500 ft.	.958 ft.	.833 ft.	2.000 ft.	1.083 ft.	1.833 ft.			1.000 ft.		
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
13.000 ft.	.792 ft.	.833 ft.	.417 ft.	.417 ft.	5.75 ft.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1.33 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
2	Timber	5.5 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
3	Timber	5.667 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
4	Timber	6.25 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
5	Timber	6.17 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
6	Timber	1.417 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
7	Timber		0.792 ft.		0.833 ft.	Vertical	No	No	No	No
Bent/Abutment #: 1			Similar Bents:							

Title		Description	
SUBSTRUCTURE		END BENT 1, LOOKING EAST	
Bridge No: 960106	Drawn By: JWT	Date: 11/12/2012	File Name: S0130001370

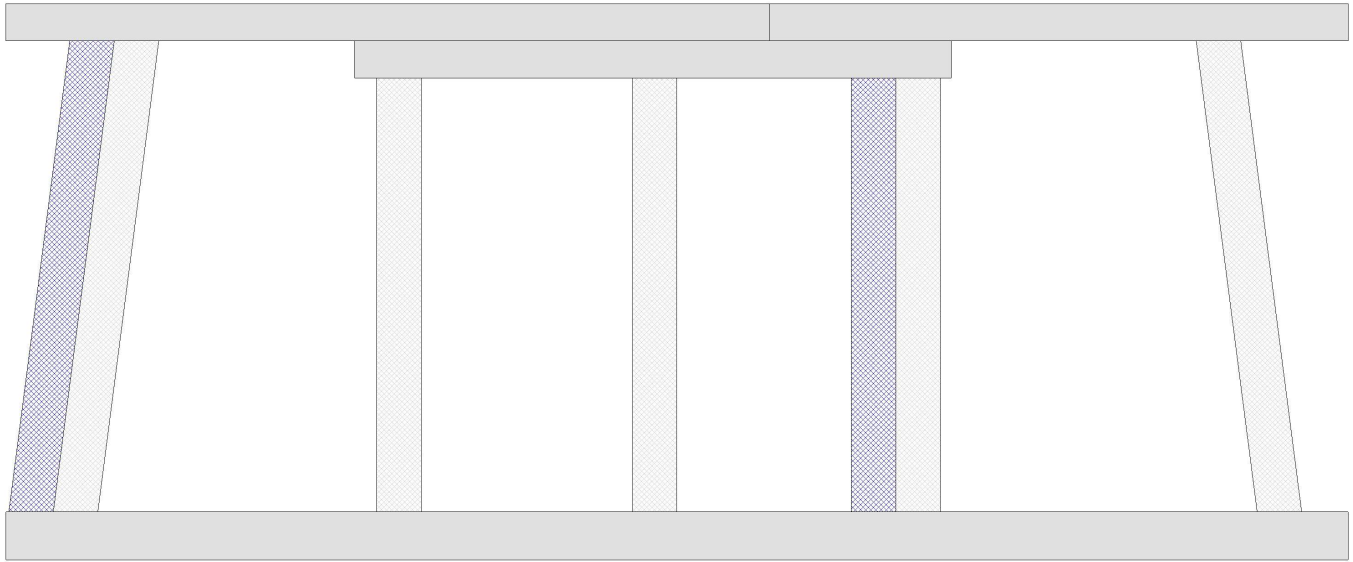
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
30.000 ft.	1.000 ft.	.833 ft.	2.083 ft.	2.167 ft.	1.333 ft.	2.167 ft.				
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
13.250 ft.	.875 ft.	.792 ft.	.500 ft.	.580 ft.	5.8333 ft.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	0.92 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
2	Timber	6.17 ft.	0.792 ft.			Vertical	No	Yes	No	No
3	Timber	5.75 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
4	Timber	5.417 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
5	Timber	1 ft.	1 ft.		0.833 ft.	Vertical	No	Yes	No	No
6	Timber	5.5 ft.	0.792 ft.		0.833 ft.	Vertical	No	No	No	No
7	Timber	1 ft.	1 ft.		0.833 ft.	Vertical	No	Yes	No	No
8	Timber		0.792 ft.		0.833 ft.	Vertical	No	No	No	No
Bent/Abutment #: 2			Similar Bents:							

Title		Description	
SUBSTRUCTURE		END BENT 2, LOOKING EAST	
Bridge No: 960106	Drawn By: JWT	Date: 11/12/2012	File Name: S0130001371

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.				
30.167 ft.	1.000 ft.	.833 ft.	.583 ft.	2.833 ft.	1.167 ft.	1.750 ft.				
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
13.417 ft.	.958 ft.	.833 ft.	1.000 ft.	.833 ft.	8.333 ft.					
Sill Information			Material							
Length	Width	Height								
29.833 ft.	3.000 ft.	4.000 ft.								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1 ft.	1 ft.			Battered	No	Yes	No	No
2	Timber	7.25 ft.	1 ft.			Battered	No	No	No	No
3	Timber	5.75 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	4.92 ft.	1 ft.			Vertical	No	No	No	No
5	Timber	1 ft.	1 ft.			Vertical	No	Yes	No	No
6	Timber	6.75 ft.	1 ft.			Vertical	No	No	No	No
7	Timber		1 ft.			Battered	No	No	No	No
X BRACING: 9-1/2" X 2-1/2" TIMBER										
Bent/Abutment #: 1 Similar Bents:										

Title

SUBSTRUCTURE

Description

BENT 1, LOOKING EAST

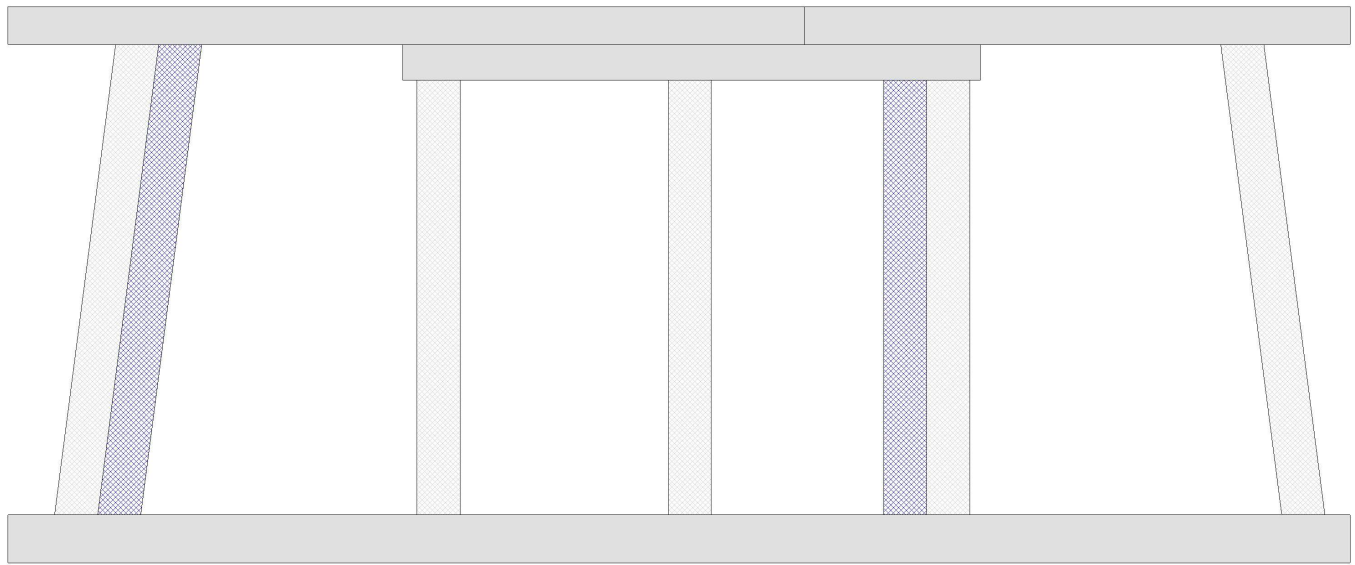
Bridge No: 960106

Drawn By: JWT

Date: 11/12/2012

File Name: S0130001372

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.				
31.167 ft.	1.000 ft.	.875 ft.	3.000 ft.	2.580 ft.	2.167 ft.	1.667 ft.				
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
13.417 ft.	1.000 ft.	.833 ft.	.833 ft.	.917 ft.	8.5 ft.					
Sill Information			Material							
Length	Width	Height								
29.833 ft.	3.000 ft.	4.000 ft.								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1 ft.	1 ft.			Battered	No	No	No	No
2	Timber	6 ft.	1 ft.			Battered	No	Yes	No	No
3	Timber	5.8333 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	5 ft.	1 ft.			Vertical	No	No	No	No
5	Timber	1 ft.	1 ft.			Vertical	No	Yes	No	No
6	Timber	6.83 ft.	1 ft.			Vertical	No	No	No	No
7	Timber		1 ft.			Battered	No	No	No	No
X BRACING: 9-1/2" X 2-1/2" TIMBER										
Bent/Abutment #: 2 Similar Bents:										

Title

SUBSTRUCTURE

Description

BENT 2, LOOKING EAST

Bridge No: 960106

Drawn By: JWT

Date: 11/12/2012

File Name: S0130001373



LOOKING EAST



BRIDGE POSTING



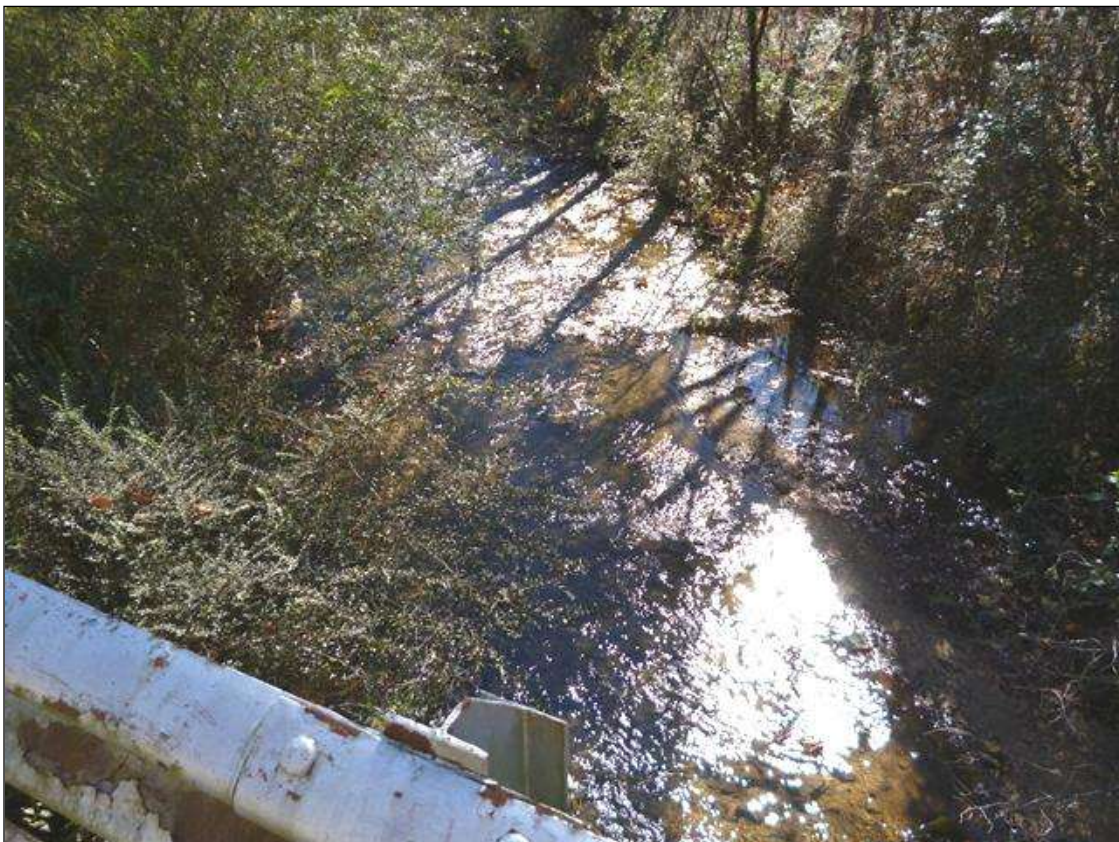
EAST APPROACH, LOOKING WEST



WEST APPROACH, LOOKING EAST



UPSTREAM VIEW, LOOKING NORTH



DOWNSTREAM VIEW, LOOKING SOUTH



NORTH BRIDGE RAIL



SOUTH BRIDGE RAIL



UPSTREAM PROFILE, LOOKING SOUTH



DOWNSTREAM PROFILE, LOOKING NORTH



SLOPE PROTECTION, END BENT 1, LOOKING SOUTH



SUPERSTRUCTURE UNDERSIDE, SPAN 1, LOOKING WEST



BEARING ASSEMBLY, BEAM 4, END BENT 1



INTERMEDIATE DIAPHRAGM, BETWEEN BEAMS 3 AND 4, SPAN 1, LOOKING EAST



ASPHALT WEARING SURFACE, SPAN 3, LOOKING SOUTH



CRACK IN ASPHALT WEARING SURFACE OVER END BENT 1, LOOKING NORTH



CRACK IN ASPHALT WEARING SURFACE OVER END BENT 2, LOOKING NORTH



END BENT 1 ELEVATION, LOOKING WEST



BENT 1 ELEVATION, LOOKING EAST



BENT 2 ELEVATION, LOOKING EAST



END BENT 2 ELEVATION, LOOKING EAST



NORTHEAST WINGWALL



NORTHWEST WINGWALL



SOUTHEAST WINGWALL



TEMPORARY BENT, MID SPAN 1 (NOT IN CONTACT WITH BEAMS)



TEMPORARY BENT, MID SPAN 2 (NOT IN CONTACT WITH BEAMS)



TEMPORARY BENT, MID SPAN 3 (NOT IN CONTACT WITH BEAMS)