

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BRIDGE MANAGEMENT UNIT

**ATTENTION** 

PRIORITY MAINT, SUBMITTED, SIGN NOTICE SUBMITTED, SHORED.

# BRIDGE INSPECTION REPORT

INSPECTION TYPE:	Routine inspe	ction	
COUNTY SAMPSON	BRIDGE NUME	BER 810034 INSPECTION CYCLE RANCH SIX RUNS CREEK	2 YRS
ROUTE SR1945	ACROSS BR	RANCH SIX RUNS C	M.P. 0
LOCATION 0.2 MI E JCT SR1960			
SUPERSTRUCTURE RC FLOOR ON TIM.J	IOIST;(BMD-10)		
SUBSTRUCTURE EBTS&BTS:TIM.CAPS	A/TIM DII ES:E B	T1-STI CDUTCH	
SUBSTRUCTURE EBTS&BTS:TIM.CAPS	O/TIMI.PILES;E.B	11:STE CROTCH	y de
SPANS 1@17'6;1@17';1@17'7			
LONGITUDE 78° 14' 10.9"		LATITUDE 34° 50' 50.8"	
PRESENT CONDITION FAIR		INVENTORY RATING	H-S-01
INSPECTION DATE 08/04/2010		OPERATING RATING	45-01
PRESENT POSTING SV 32 TTST 36	NOT POSTED	PROPOSED POSTING SU 2	0 7757 27 70
COMPUTER UPDATE	-10	ANALYSIS DATE 8	-25-10
POSTING LETTER DATE 4-1-	-10	SUFFICIENCY RATING	
OTHER SIGNS PRESENT 4 DELINEATO	RS		



LOOKING EAST

SIGN NOT		NUMBERED REQUIRED
Yes	WEIGHT LIMIT	2
Yes	DELINEATORS	1
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

#### NATIONAL BRIDGE INVENTORY—— STRUCTURE INVENTORY AND APPRAISAL Run Date: 09/02/2010

IDENTIFICATION —				
(1) STATE NAME -NORTH CAROLINA BRIDGE		810034	SUFFICIENCY RATING =	25.
(8) STRUCTURE NUMBER(FEDERAL)	000000001		STATUS = Structurally Deficient	
INVENTORY ROUTE (ON/UNDER) - ON	131	1019450		
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3	CLASSIFICAT	
(3) COUNTY CODE 163 (4) PLACE CODE		00000	(112)NBIS BRIDGE SYSTEM -	YE
(6) FEATURE INTERSECTED - BRANCH SIX RUNS C			(104)HIGHWAY SYSTEM NON NHS Route	
(7) FACILITY CARRIED SR1945			(26) FUNCTIONAL CLASS - Local	0
(9) LOCATION 0.2 MI E JCT SR1960			(100)STRAHNET HIGHWAY - Not a STRAHN	
(11)MILEPOINT		0	(101)PARALLEL STRUCTURE - No Parallel S	structure
(16)LAT 34" 50' 50.8" (17)LONG 78"	14' 10.9"		(102)DIRECTION OF TRAFFIC - 2-way Traff	ic
(98)BORDER BRIDGE STATE CODE PCT	SHARE		(103)TEMPORARY STRUCTURE - Temporar	У
(99)BORDER BRIDGE STRUCTURE NO			(110)DESIGNATED NATIONAL NETWORK - 8	Not Part of
			(20) TOLL On Free Road	
STRUCTURE TYPE AND MATERIAL	.—		(31) MAINTAIN - State Highway Agency	0
(43) STRUCTURE TYPE MAIN: Wood or Timber			(22) OWNER - State Highway Agency	0
TYPE - Stringer Mutilbeam or Girder	CODE	702	(37) HISTORICAL SIGNIFICANCE - Not E	ligible
(44) STRUCTURE TYPE APPR:				
TYPE -	CODE		CONDITIO	N ——— CODE
(45) NUMBER OF SPANS IN MAIN UNIT		3	(58) DECK	2 1887.5
(46) NUMBER OF APPROACH SPANS			(59) SUPERSTRUCTURE	
(107)DECK STRUCTURE TYPE - Concrete cast-in-place	CODI	E 1	(60) SUBSTRUCTURE	A
(108)WEARING SURFACE / PROTECTIVE SYSTEM:		- 1	(61) CHANNEL & CHANNEL PROTECTION	
(A) TYPE OF WEARING SURFACE - Concrete	CODE	1	(62) CULVERTS	
(B) TYPE OF MEMBRANE - None	CODE		(02) 00272110	
(C) TYPE OF DECK PROTECTION - None	CODE		LOAD RATING AND	POSTING ——— CODE
(O) THE OF BEOM MOTEOTION - HORE	CODE		(31) DESIGN LOAD Other or Unknown	
ACE AND SERVICE			(64) OPERATING RATING - HS-1	
(27) YEAR BUILT		1950		10
		1950	(66) INVENTORY RATING - HS-1	10
(106)YEAR RECONSTRUCTED			(70) BRIDGE POSTING - Posting Require	
(42) TYPE OF SERVICE : ON - Highway  UNDER - Waterway	CODE	15	(41) STRUCTURE OPEN, POSTED ,OR CLOS  DESCRIPTION - Posted for Load	ED
(28) LANES: ON STRUCTURE 2 UNDER STRUCT				
(29) AVERAGE DAILY TRAFFIC	0	620	APPRAISA	CODE
(30) YEAR OF ADT 2008 (109) TRUCK ADT PCT		6 %	(67) STRUCTURAL EVALUATION	
(19) BYPASS OR DETOUR LENGTH		9 MI	(68) DECK GEOMETRY	
		3 1911		
GEOMETRIC DATA		40 FT	(69) UNDERCLEARANCES, VERTI & HORIZ	
(48) LENGTH OF MAXIMUM SPAN		18 FT	(71) WATERWAY ADEQUACY	
(49) STRUCTURE LENGTH		52 FT	(72) APPROACH ROADWAY ALIGNMENT	
(50)CURB OR SIDEWALK: LEFT 0.8 FT RIGHT		0.8 FT	(36) TRAFFIC SAFETY FEATURES	0000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24.0 FT	(113)SCOUR CRITICAL BRIDGES	· ·
(52) DECK WIDTH OUT TO OUT		25.3 FT	SCOUR PLAN OF ACTION	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18.0 FT		
(33) BRIDGE MEDIAN - No Median	CODE	0	PROPOSED IMPE	ROVEMENTS -
(34) SKEW 0° (35) STRUCTURE FLARED		NO	(75) TYPE OF WORK -	CODE 31
(10) INVENTORY ROUTE MIN VERT CLEAR	99 F	T 99 IN	(76) LENGTH OF STRUCTURE IMPROVEMEN	IT 75 F
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24.0 FT	(94) BRIDGE IMPROVEMENT COST	\$161,000
(53) MIN VERT CLEAR QVER BRIDGE RDWY	99 F	T 99 IN	(95) ROADWAY IMPROVEMENT COST	\$40,00
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad			(96) TOTAL PROJECT COST	\$242,00
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		99.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMA	TE 200
(56) MIN LAT UNDERCLEAR LT REF -		0.0 FT	(114)FUTURE ADT 1240 (111	5) YEAR FUTURE ADT 2025
NAVIGATION DATA	CALLS IN		INSPECTION	vs ————
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0	(90) INSPECTION DATE	08/04/2010
(111)PIER PROTECTION - Not Applicable	CODE	, ,	(92) CRITICAL FEATURE INSPECTION:	(93) CFI DATE
[2] [1] ([3] [3] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	JODE	0	A) FRACTURE CRIT DETAIL - NO	A)
(39) NAVIGATION VERTICAL CLEARANCE		U	ATTOCKE ONLI DETAIL - INO	~ /
(39) NAVIGATION VERTICAL CLEARANCE (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			B) UNDERWATER INSP - NO	B)

BRIDGE I & A FORM1 (90)A

# **BRIDGE INSPECTION RECORD AND SUMMARY**

OVER BRANCH SIX RUNS C

INSPECTION TYPE Routine Inspection

BRIDGE NO. 810034 COUNTY SAMPSON

ROUTE SR1945

	EVALUATION COD	E: 0-2 CRI	TICAL,	3 & 4 POOR, 5	& 6 FAIR, 7-9 GOOD		
	INSPECTION ITEM				ITEM 61		
	DECK ITEMS	GRAI	DES		a. WATERWAY		6
1. WEARING	SURFACE			& CHANNEL PROT.	b. ALIGNMENT		7
2. DECK NO.	a. CONCRETE	3	5	PROT.	c. SCOUR		6
OF EA TYPE	b. TIMBER				d. SLOPE PROT., RIP-F	RAP, DIKES, ETC.	
SPN GRADE RATES SI & A	c. STEEL PLANK			50. APPROACH ROADWAY CONDITION		5	
TEM 58	d. OPEN GRID			51. APPROAC	H SLABS		
3. RAILING	a. CONCRETE		6	52. PAINT SYS	STEM COL	DE 30	
	b. TIMBER	-		53. UTILITIES			
	c. ALUMINUM			54. RESPONS	E TO LIVE LOAD		7
	d. STEEL		-	55. ESTIMATED REMAINING LIFE			7
4. CURBS, W	HEELGUARDS, PARAPETS, MEDIANS		5				
	S (ON OR ATTACHED TO STRUCTUR	E)		60. REGULAT	ORY SIGN NOTICE ISSU	JED	NO
	a. STEEL PL OR FINGER			61. PROMPT-	ACTION NOTICE ISSUE		NO
JTS. OR DEVICES.	b. MISC PREFAB			62. PRESENTLY POSTED		and the same of	NO
NO. OF EACH	c. COMPRESSION SEAL			63. TOT. FIEL	63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		
	d. STANDARD JOINTS	2	5	64. TOTAL SN	4. TOTAL SNOOPER INSP. TIME (HRS)		
	e. OPEN JOINTS			65. TOTAL TR	AFFIC CONTROL TIME	(MAN HRS)	
7. DECK DEB	RIS (INCLUDES EXCESS SAND/GRAV	(EL)	5			de la companya del companya de la companya del companya de la comp	
				1 1 7	0. SI&A GENERAL CON	DITION RATINGS	
8	SUPER STR. (FM. 1 (90)B TRUSS) ITEM	1 59		a. DECK		ITEM 58	5
10. LONGITU	DINAL BEAMS OR GIRDERS			b. SUPERSTE	SUPERSTRUCTURE ITEM 59		5
11. LONGITU	DINAL JOIST OR STRINGERS		5	c. SUBSTRUCTURE ITEM 60		5	
12. INT. DIAP	"S, X-FRAMES, BRACING & CONN'S			d. CHANNEL	& CHANNEL PROT.	ITEM 61	6
13. END DIAF	P'S, CURTAIN WALLS, & CONN'S		7			THE STATE OF THE STATE OF	
14. FLOOR B	EAMS AND CONNECTIONS				71. SI&A FIELD APPRA	AISAL RATINGS	
15. BEARING	ASSEMBLIES (INCLUDING MISALIGN	)		a. WATERWAY ADAQUACY			7
16. DRAINAG	SE SYSTEM (ON STRUCTURE)		5	b. APPR. RDWY. ALIGNMENT			8
17. MOVABLE	E SPAN MACHINERY						
				72. FIELD SCO	OUR EVALUATION		0
	JB STR. ITEMS. ITEM 60 (INCLUDE SC						
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISEF	RS	5	USE OF INSP. ACCESSIBILITY EQUIPMENT			
SIK.	b. PILES, POST, SILLS, & BRACING		5	The second secon	(CODE S, 4, OR N) HRS		NO
	c. BULKHEADS, WING'S, & TIE BACK	(S	5	LADDER			NO
36, CONC SUB STR,	a. ABUT. & INT. BENT CAPS			BUCKET TRU	ICK		NO
SUD SIR,	b. ABUT. & BENT COL'S BREASTWA	LLS		BOAT			YES
	c. ABUT. & INT. BENT PILES			OTHER			NO
	d. BACKWALLS, WING'S, RETAIN. W	Andrew Town					
	e. ABUT, & BENT FOOTINGS & SILLS					inus a	
37. STEEL	a. ABUT. & INT. BENT CAPS & RISEF	100	7	SPECIAL INS	PECTION REQUESTED	FOR	
SUB STR.	b. PILES, BRACING, AND BULKHEAD	os	7				
	TION PILES TYPE MATERIAL	100		NOTE			
39. SLOPE PI	ROT., RIP-RAP (INCLUDE DRAINAGE)						
40. FENDER	SYSTEMS			80. INSPECTE	D BY:	By- Con	
41. DRIFT			7	81. REVIEWE	D BY		- 115

# BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES

BRIDGE # 810034 COUNTY SAMPSON DA	TE <u>8-20</u>	5.02
THE FOLLOWING SI & A ITEMS ARE TO BE CODED TO R FACT THAT THE STRUCTURE IS SHORED UP:	EFLECT TI	HE.
	CODE	<u>BY</u>
SI & A ITEM 103 - TEMPORARY STRUCTUTE DESIGNATION	T	خال
SI & A ITEM 59 - SUPERSTRUCTURE		
SI & A ITEM 60 - SUBSTRUCTURE	4	JRJ
SI & A ITEM 64 - OPERATING RATING BS OO BY SML	01	VPP
SI & A ITEM 66 - INVENTORY RATING HS 0 a BY SML	01	UPP.
COMMENTS:  ADDED (RUTCH BELLT & ELLO BELLT &	1	

Bridge I&A Form 1(82)H

State of North Carolina Dept. of Transportation Division of Highways

# **FIELD INSPECTION REPORT**

**Bridge Inspecion & Analysis** 

Team Leader BRYAN CROOM

Assisted By RGM

Assisted By	RGM	
Item No.	Grade	
2a	5	TRANSVERSE CRACKING IN DECK OVER END BENTS UP TO 1/8" WIDE. HAIRLINE MAPCRACKING IN DECK IN ALL SPANS. PATCHED AREAS IN SPAN 1 DECK OVER END BENT 1. SPAN 3 DECK AT CENTERLINE ALONG BENT 2 CRACKED AND SPALLED AREA 4" WIDE X 12" LONG X 1" DEEP. LONGITUDINAL CRACKING IN SPAN 2 DECK UP TO .013" WIDE. SPAN 3 DECK CRACKED AND DELAMINATED AREA ALONG BENT 2 JOINT IN WEST BOUND LANE 18" LONG X 2" WIDE.
3a	6	HORIZONTAL CRACKING ALONG NORTH RAIL BAR. RAILS WEATHERED WITH EXPOSED AGGREGATE.
4	5	CURBS WEATHERED WITH EXPOSED AGGREGATE.
6d	5	BENT 2 JOINT MATERIAL MISSING AND LOOSE IN A 2' LONG AREA. THERE ARE SIGNS OF JOINT LEAKAGE ALONG BENT 1 AND 2 CAPS.
7	5	GROWTH AND DEBRIS ALONG SOUTH CURB IN SPAN 1. GROWTH AND DEBRIS BUILDUP AT CORNERS OF BRIDGE.
11	5	LONGITUDINAL CRACKING ALONG JOIST UP TO 1/8" WIDE. JOIST 1 IN SPAN 1 AT END BENT 1 SECTION LOSS 38" LONG X 2" WIDE X 2" HIGH.
16	5	GROWTH AND DEBRIS ALONG SOUTH CURB IN SPAN 1. GROWTH AND DEBRIS BUILDUP AT CORNERS OF BRIDGE.
35a	5	TIMBER CAPS 4 NORTH END OF BENT 1 CAP DECAYED 5" WIDE X 10" HIGH X 12" DEEP. (A PRIORITY MAINT. SUBMITTED FOR THIS CONDITION)
		REMAINING TIMBER CAPS 5 BENT 1 CAP AT SOUTH END 2 DECAYED AREAS 2" DIA. X 6" DEEP. BENT 1 CROWNSTRIP AT SOUTH END DECAYED 1" WIDE X 20" LONG. LONGITUDINAL CRACKING ALONG CAPS UP TO 1/8" WIDE. SOUTH END OF END BENT 2 CAP DECAYED 10" WIDE X 3" HIGH X 2" DEEP. END BENT 2 CAP ROLLED BACK 1/4". END BENT 2 SUBCAP ROLLED BACK 2". NORTH END OF END BENT 2 CAP DECAYED 12" LONG X 4" WIDE X 2" HIGH.

Bridge I&A Form 1(82)H

State of North Carolina Dept. of Transportation Division of Highways

# **FIELD INSPECTION REPORT**

**Bridge Inspecion & Analysis** 

Team Leader BRYAN CROOM

Assisted By RGM

Assisted By	RGM	
Item No.	Grade	
35b	5	TIMBER PILES 4 PILE 2 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE. PILE 3 AT END BENT 2 DECAYED AT TOP PORTION 12" WIDE X 12" HIGH X 8" DEEP. PILE 1 AT END BENT 2 PUSHED OUT 1" DUE TO BULKHEAD PRESSURE. PILE 1 AT BENT 1 EAST SIDE DECAYED 32" HIGH X 6" DEEP X 1/2 CIRCUMFERENCE. PILE 5 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE. PILE 3 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE.
		REMAINING TIMBER PILES 5 LONGITUDINAL CRACKING IN PILES UP TO 1/8" WIDE. CROSSBRACE AT BENT 1 EAST SIDE AT PILE 4 SPLIT AT CONNECTION BOLT 1" WIDE X 15" LONG. BENT 1 CROSSBRACE SPAN 1 SIDE AT PILE 1 DECAYED 4' LONG.
35c	5	SOUTHWEST WINGWALL DISPLACED AND DECAYED BOARDS WITH FILL LEAKAGE AT TOP PORTION. SOUTHEAST EXTERIOR BULKHEAD/WINGWALL DECAYED AND DISPLACED BOARDS. END BENT 2 BULKHEAD AT PILE 5 DECAYED AREA WITH EXPOSED FILL. END BENT 2 BULKHEAD BOARDS PUSHED OUT UP TO 1".
37a	7	THERE IS A STEEL CAP AT THE END BENT 1 CRUTCHBENT.
37b	7	THERE ARE STEEL "H" PILES AT THE END BENT 1 CRUTCHBENT. PAINT PEELING WITH SURFACE RUST ON TOP PORTION OF STEEL PILES AT END BENT 1.
41	7	DRIFT COLLECTING AT PILE 3 OF BENT 1.
45a	6	HIGH WATER LEVEL IS ON TOP OF DECK.
50	5	WEST APPROACH ASPHALT WEARING SURFACE CRACKED AND SETTLED UP TO 2". NORTHEAST DELINEATOR DAMAGED.

County SAMPSON 08/04/2010 Bridge: 810034 Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
2816	Asphalt Surface Repair or Replacement	SY	1	WEST APPROACH ASPHALT WEARING SURFACE CRACKED AND SETTLED UP TO 2"	
3310 670	Maintenance/Re pair/Replacemen t of Standard Bridge Expansion Joints	LF	50	BENT 2 JOINT MATERIAL MISSING AND LOOSE IN A 2' LONG AREA. THERE ARE SIGNS OF JOINT LEAKAGE ON THE UNDERSIDE.	
3326 (560)	Maintain Concrete Deck	SF	3	SPAN 3 DECK AT CENTERLINE ALONG BENT 2 CRACKED AND SPALLED AREA 4" WIDE X 12" LONG X 1" DEEP. SPAN 3 DECK CRACKED AND DELAMINATED AREA ALONG BENT 2 JOINT IN WEST BOUND LANE 18" LONG X 2" WIDE.	
(3342 (554)	Clean and Paint Structural Steel	SF	20	PAINT PEELING WITH SURFACE RUST ON TOP PORTION OF STEEL PILES AT END BENT 1	
3344	Repair / Replace Timber Substructure Components	LF	10	PILE 1 AT BENT 1 EAST SIDE DECAYED 32" HIGH X 6" DEEP X 1/2 CIRCUMFERENCE.	
3344	Repair / Replace Timber Substructure Components	LF	10	PILE 1 AT END BENT 2 PUSHED OUT 1" DUE TO BULKHEAD PRESSURE.	
3344	Repair / Replace Timber Substructure Components	LF	10	PILE 2 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE.	
3344	Repair / Replace Timber Substructure Components	LF	10	PILE 3 AT END BENT 2 DECAYED AT TOP PORTION 12" WIDE X 12" HIGH X 8" DEEP.	
3344	Repair / Replace Timber Substructure Components	LF	10	PILE 3 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE.	
(580)	Repair / Replace Timber Substructure Components	LF	10	PILE 5 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE.	



Bridge: 810034

County SAMPSON

Date:

08/04/2010

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

MMS Code			Remarks	Est. Cost	
3344	Repair / Replace Timber Substructure Components	LF	25	NORTH END OF BENT 1 CAP DECAYED 5" WIDE X 10" HIGH X 12" DEEP.	
3344 (580)	Repair / Replace Timber Substructure Components	LF	81	BENT 1 CROSSBRACE SPAN 1 SIDE AT PILE 1 DECAYED 4' LONG. BENT 1 CAP AT SOUTH END 2 DECAYED AREAS 2" DIA. X 6" DEEP. BENT 1 CROWNSTRIP AT SOUTH END DECAYED 1" WIDE X 20" LONG. SOUTH END OF END BENT 2 CAP DECAYED 10" WIDE X 3" HIGH X 2" DEEP. NORTH END OF END BENT 2 CAP DECAYED 12" LONG X 4" WIDE X 2" HIGH. CROSSBRACE AT BENT 1 EAST SIDE AT PILE 4 SPLIT AT CONNECTION BOLT 1" WIDE X 15" LONG.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	105	SOUTHWEST WINGWALL DISPLACED AND DECAYED BOARDS WITH FILL LEAKAGE AT TOP PORTION. SOUTHEAST EXTERIOR BULKHEAD/WINGWALL DECAYED AND DISPLACED BOARDS. END BENT 2 BULKHEAD AT PILE 5 DECAYED AREA WITH EXPOSED FILL. END BENT 2 BULKHEAD BOARDS PUSHED OUT UP TO 1".	
3366	Drift and Debris Removal	HR	20	DRIFT COLLECTING AT PILE 3 OF BENT	
3376	Clean/Wash Bridge Decks	SF	30	GROWTH AND DEBRIS ALONG SOUTH CURB IN SPAN 1. GROWTH AND DEBRIS BUILDUP AT CORNERS OF BRIDGE.	

Bridge: 810034

County SAMPSON

MMS Code	MMS Desc	MMS Description			ty
3344	Repair / Re	pair / Replace Timber Substructure Components			LF
Location:	W.W.				THE R
Abutment Su	ubstructure	Bent/Span No. 2	PILE 2 AT END BENT 2.		
Priority Leve		Status	THE RESERVE AND ADDRESS.	100	
Recommended Routine Maintenance					
Submitted D	ate: Submi	tted By:	Assisted By:		
08/05/2010	BRYA	AN CROOM	RICHARD MURRAY		
Details					
PILE 2 AT E	ND BENT 2 F	PUSHED OUT 3" DUE TO BULKH	IEAD PRESSURE.		

MMS Code	MMS Des	MMS Description			
3344	Repair / Re	eplace Timber Substructure Comp	ponents	10	LF
Location:			Text fire a fire and a	DEBLO	134
Abutment Su	ubstructure	Bent/Span No. 2	PILE 5 AT END BENT 2.		-11-
Priority Level Status					130
Recommended Routine Maintenance					
Submitted D	ate: Subm	nitted By:	Assisted By:	16-16	
08/05/2010	BRY	AN CROOM RICHARD MURRAY			
Details	Elle I				THE PE
PILE 5 AT E	ND BENT 2	PUSHED OUT 3" DUE TO BULK	HEAD PRESSURE.		

Bridge: 810034

County SAMPSON

MMS Code	MMS De	MMS Description			ty
3344	Repair / R	pair / Replace Timber Substructure Components			LF
Location:	15.7				87
Abutment Su	ubstructure	Bent/Span No. 2	PILE 3 AT END BENT 2.		
Priority Leve		Status	STATE OF THE STATE		450
Recommend	led	Routine Maintenance			
Submitted D	ate: Sub	mitted By:	Assisted By:		1580
08/05/2010	BR	YAN CROOM	RICHARD MURRAY		
Details				70.00	
PILE 3 AT E	ND BENT 2	2 PUSHED OUT 3" DUE TO BULK	KHEAD PRESSURE.		

MMS Code	MN	MS Desc	ription		Quant	ity
3344	Rep	oair / Re	place Timber Substructure Comp	onents	10	LF
Location:	1	Bright			103 64	734
Abutment Si	ubstru	cture	Bent/Span No. 1	PILE 1 AT BENT 1.		
Priority Leve	1		Status			BI-V
Priority Main	itenan	се	Division Bridge Maintenance I	Notification Received		
Submitted D	ate:	Submi	tted By:	Assisted By:		100
08/05/2010		BRYA	N CROOM	RICHARD MURRAY		
Details	a la	10			Carlotte of	813
PILE 1 AT B	ENT	1 EAST	SIDE DECAYED 32" HIGH X 6" [	DEEP X 1/2 CIRCUMFERENCE.		

Bridge: 810034

County SAMPSON

MMS Code	MMS Descr	iption		Quanti	ity
3344	Repair / Rep	lace Timber Substructure Compo	onents	10	LF
Location:	dr. Sain			STATE OF	
Abutment Sul	bstructure	Bent/Span No. 2	PILE 1 AT END BENT 2.	- YY.	
Priority Level	100	Status		M. Want	
Recommende	ed	Routine Maintenance			
Submitted Da	ate: Submitt	ed By:	Assisted By:	The state of	
08/05/2010	BRYAI	N CROOM	RICHARD MURRAY		
Details	a 1 2 2 2				
PILE 1 AT EN	ND BENT 2 P	JSHED OUT 1" DUE TO BULKH	EAD PRESSURE.		

MMS Code	MMS Desc	cription		Quant	ity
3344	Repair / Re	place Timber Substructure Compo	onents	10	LF
Location:	7270			1380	
Abutment Sub	structure	Bent/Span No. 2	PILE 3 AT END BENT 2.		
Priority Level		Status			
Priority Mainte	enance	Division Bridge Maintenance N	Notification Received	-	
Submitted Date	te: Submi	tted By:	Assisted By:	-73	
08/05/2010	BRYA	AN CROOM	RICHARD MURRAY	7	
Details					

Bridge: 810034

County SAMPSON

MMS Code	MMS Desc	ription		Quanti	ity
3344	Repair / Rep	place Timber Substructure Compo	onents	25	LF
Location:					
Pier Cap		Bent/Span No. 1	BENT 1 CAP AT NORTH END.		
Priority Level		Status			
Priority Mainte	nance	Division Bridge Maintenance N	lotification Received		
Submitted Dat	e: Submit	ted By:	Assisted By:		
08/05/2010	BRYA	N CROOM	RICHARD MURRAY		
Details					
NORTH END	OF BENT 1	CAP DECAYED 5" WIDE X 10" H	IIGH X 12" DEEP.		



NORTH END OF BENT 1 CAP DECAYED 5" WIDE X 10" HIGH X 12" DEEP.(PRIORITY MAINTENANCE)



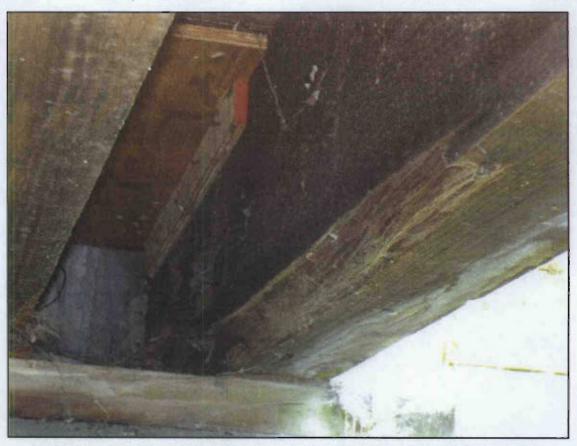
BENT 1 CROSSBRACE SPAN 1 SIDE AT PILE 1 DECAYED 4' LONG.



LONGITUDINAL CRACKING IN PILES UP TO 1/8" WIDE



LONGITUDINAL CRACKING ALONG JOIST UP TO 1/8" WIDE.



JOIST 1 IN SPAN 1 AT END BENT 1 SECTION LOSS 38" LONG X 2" WIDE X 2" HIGH



PAINT PEELING WITH SURFACE RUST ON TOP PORTION OF STEEL PILES AT END BENT 1



DRIFT COLLECTING AT PILE 3 OF BENT 1



SOUTHWEST WINGWALL DISPLACED AND DECAYED BOARDS WITH FILL LEAKAGE AT TOP PORTION



BENT 1 CAP AT SOUTH END 2 DECAYED AREAS 2" DIA. X 6" DEEP



PILE 1 AT BENT 1 EAST SIDE DECAYED 32" HIGH X 6" DEEP X 1/2 CIRCUMFERENCE.(PRIORITY MAINTENANCE)



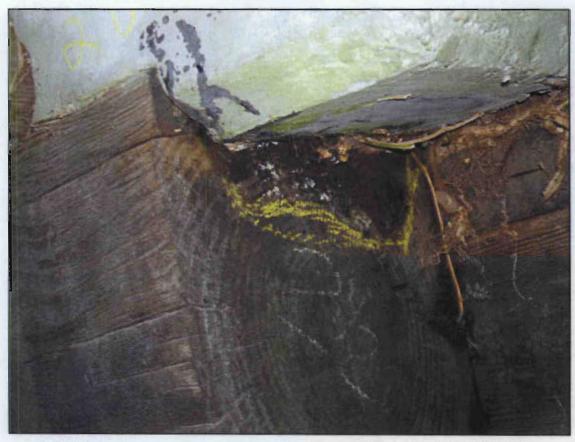
CROSSBRACE AT BENT 1 EAST SIDE AT PILE 4 SPLIT AT CONNECTION BOLT 1" WIDE X 15" LONG.



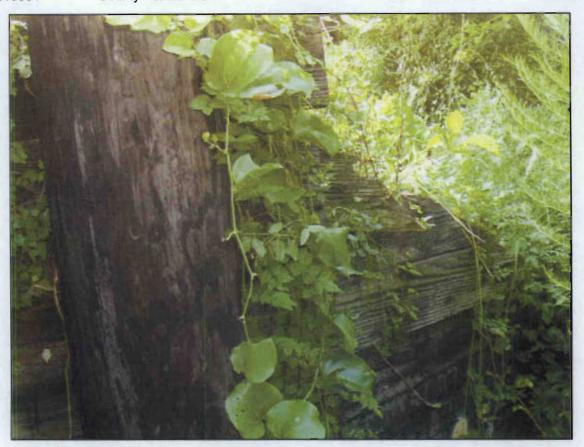
BENT 1 CROWNSTRIP AT SOUTH END DECAYED 1" WIDE X 20" LONG.



LONGITUDINAL CRACKING ALONG CAPS UP TO 1/8" WIDE



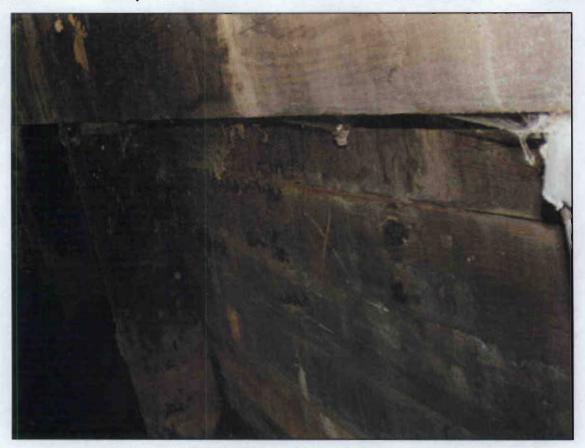
SOUTH END OF END BENT 2 CAP DECAYED 10" WIDE X 3" HIGH X 2" DEEP.



SOUTHEAST EXTERIOR BULKHEAD/WINGWALL DECAYED AND DISPLACED BOARDS



END BENT 2 BULKHEAD AT PILE 5 DECAYED AREA WITH EXPOSED FILL



END BENT 2 BULKHEAD BOARDS PUSHED OUT UP TO 1"



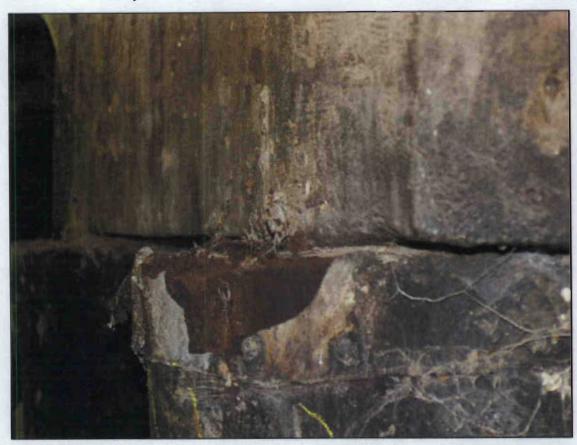
PILE 5 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE. (PRIORITY MAINTENANCE)



END BENT 2 CAP ROLLED BACK 1/4"



END BENT 2 SUBCAP ROLLED BACK 2"



PILE 3 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE. (PRIORITY MAINTENANCE)



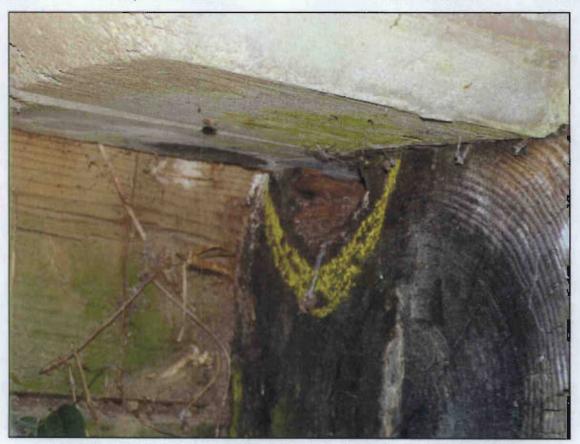
PILE 2 AT END BENT 2 PUSHED OUT 3" DUE TO BULKHEAD PRESSURE.(PRIORITY MAINTENANCE)



PILE 3 AT END BENT 2 DECAYED AT TOP PORTION 12" WIDE X 12" HIGH X 8" DEEP.(PRIORITY MAINT.)



PILE 1 AT END BENT 2 PUSHED OUT 1" DUE TO BULKHEAD PRESSURE (PRIORITY MAINTENANCE)



NORTH END OF END BENT 2 CAP DECAYED 12" LONG X 4" WIDE X 2" HIGH



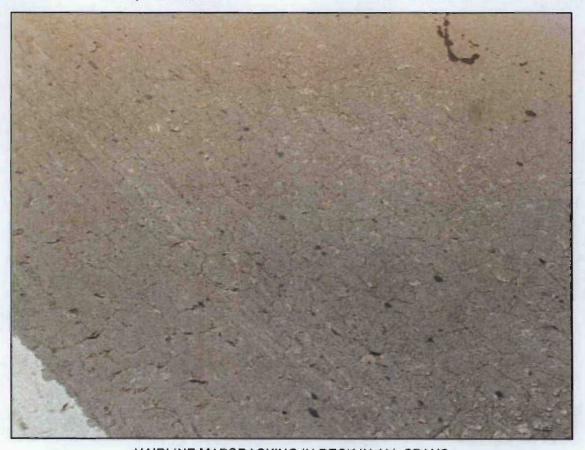
NORTH END OF BENT 2 CAP DECAYED AT TOP LEFT CORNER 3" DIA. X 3" DEEP.



WEST APPROACH ASPHALT WEARING SURFACE CRACKED AND SETTLED UP TO 2"



TRANSVERSE CRACKING IN DECK OVER END BENTS UP TO 1/8" WIDE.



HAIRLINE MAPCRACKING IN DECK IN ALL SPANS



PATCHED AREAS IN SPAN 1 DECK OVER END BENT 1



**CURBS WEATHERED WITH EXPOSED AGGREGATE** 



HORIZONTAL CRACKING ALONG NORTH RAIL BAR



SPAN 3 DECK AT CENTERLINE ALONG BENT 2 CRACKED AND SPALLED AREA 4" WIDE X 12" LONG X 1" DEEP



LONGITUDINAL CRACKING IN SPAN 2 DECK UP TO .013" WIDE



GROWTH AND DEBRIS ALONG SOUTH CURB IN SPAN 1



GROWTH AND DEBRIS BUILDUP AT CORNERS OF BRIDGE

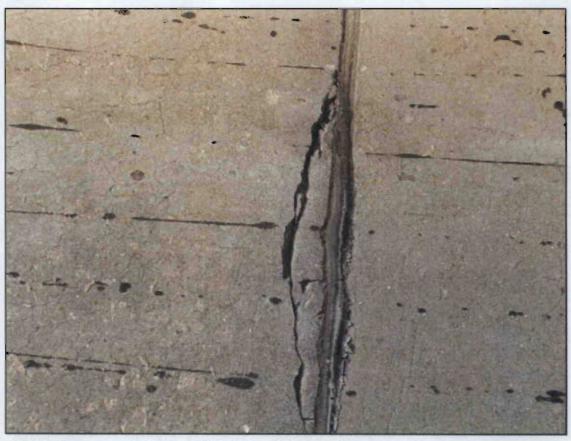


BENT 2 JOINT MATERIAL MISSING AND LOOSE IN A 2' LONG AREA.



NORTHEAST DELINEATOR DAMAGED

Structure 810034 County SAMPSON Date: 08/04/2010 Condition Photos



SPAN 3 DECK CRACKED AND DELAMINATED AREA ALONG BENT 2 JOINT IN WEST BOUND LANE 18" LONG X 2" WIDE.

#### BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 09/02/2010

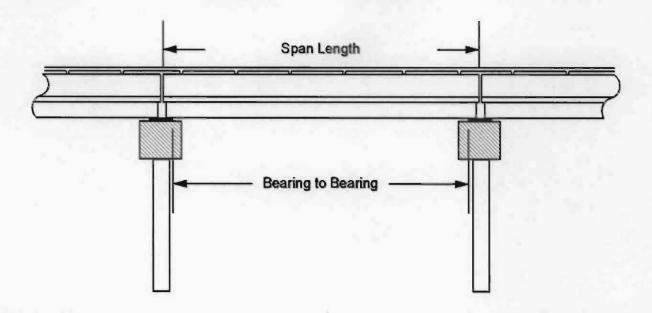
COUNTY: SAMPSON	DIV:		2	STRUCTURE	NUME	BER: 81003	4 L	ENGTH	: 52	FEET
ROUTE CARRIED : SR194	45	FE	ATURE INTE	ERSECTED		CH SIX I	RUNS C			
LOCATED : 0.2 MI E JCT	SR1960	BR	IDGE NAME	:		С	ITY:			
FUNC. CLASS: S'	YST.ON:	SYST.UNDER	:	ADT & YF	₹:		RA	IL TYPE	:	
09	NFA		NFA	62	0 2	800	L	T 241	RT :	241
BUILT: BY	Y:	PROJ:		FED.AI	D PRO	J:	DESIG	N LOAD	:	
1950	BMU									er or known
REHAB: BY:	PRO	J:	ALIGNMEN	Т: 5	SKEW:	1	ANES:			
E	BMU			TAN.	9	0	ON	2	UNDE	R
NAVIGATION :			HT. CRN.	TO BED :			WATER	DEPTH	:	
VC 0.0	FT HC	0.0 FT		10		FT		4		FT
SUPERSTRUCTURE :	RC FLOOR	ON TIM.JOIS	T·/RMD-10	)					Town III	
BEAMS OR GIRDERS :	TOTAL THE WAY I SHOW	017';1@17'7 	JOISTS @	VAR. CTS		-	4	H	÷	
FLOOR:		ROACHMENT		100		IT TO OU	JT):		+-	
5 RC/NO AWS					7,		25.3 F	T		
CLEAR ROADWAY:	BETV	VEEN RAILS :		S	IDEWA	LK OR C	JRB:			
24.0 FT			25.6 FT	- 177		LT	0.8	FT	RT	0.8 F
VERT.CL.OVER:	VERT.	CL.UNDER:		HOR.CL.	UNDER	:				
		00 FT 00 IN				0.0 FT				
99 FT 99 IN										
	E.RTG. :	CONTR.ME	MBER :	POS	TED :					
	West of the		MBER : PILE, TIM.	POS	TED :	ттѕт	27	DATE	09/01	/2010
INV.RTG.: OP HS-1	PE.RTG. :		PILE,		20		27 LINE ROL		09/01	/2010
INV.RTG.: OP HS-1	PE.RTG. :		PILE,		20					/2010
INV.RTG.: OP HS-1 SYSTEM:	PE.RTG. : HS-1		PILE, TIM.		20		INE ROL	ITE:		/2010

County: SAMPSON

Structure No: 810034

Date: 08/04/2010

Inspected By: BC



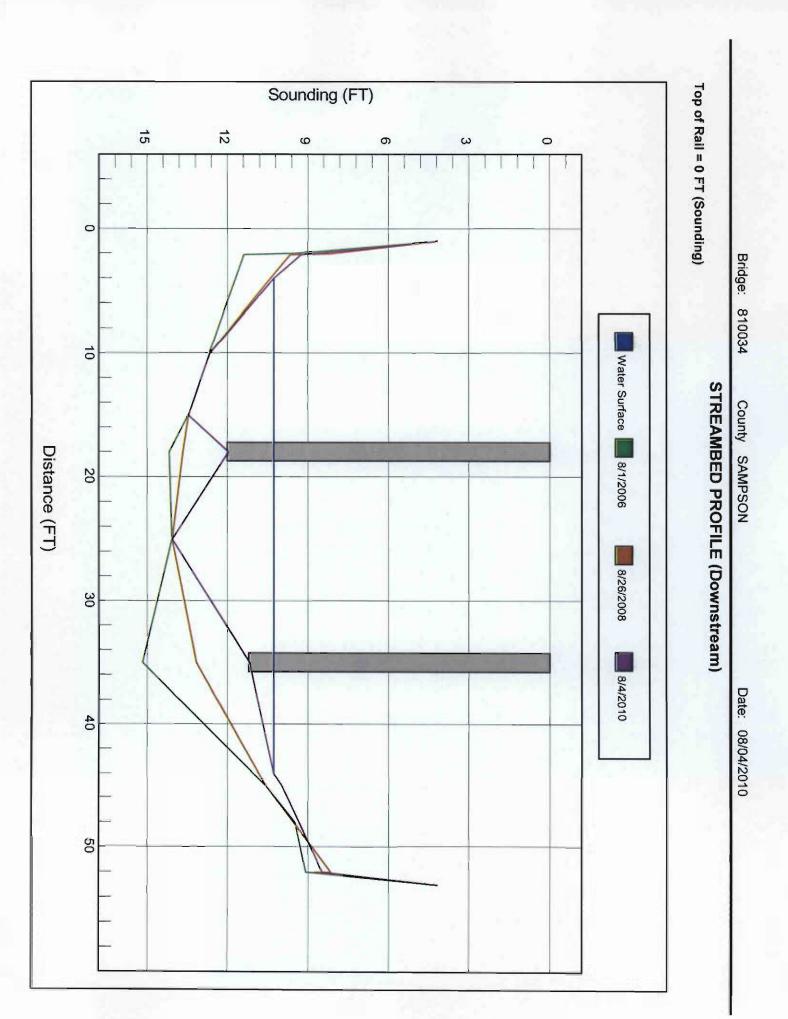
Span No	Span Length	Bearing to Bearing	Comments	
1	17.5	16.75		
2	17.0	17.0		7 2 3
3	17.5833	16.8333		

# Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 810034	County: SAMPSO	Date:	08/04/2010	Ву:	ВС	
Record sounding from t	op of rail. Other location	if needed:				
Distance from Highwate	r Mark to top of rail:	Location of Hig	hwater Mark:			

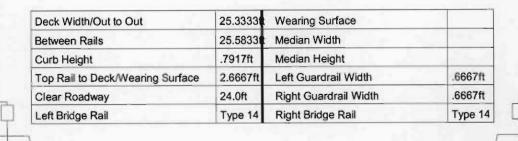
	D	OWNSTREAM		UPSTREAM				
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description			
1	4.2	TOP OF CAP						
2.1	9.3	STREAMBED AT CAP	2.1	12	STREAMBED AT CAP			
4	10.3	WEWS						
10	12.7							
15	13.5	1 1 1 1 1 1 1 1		919	7.1112			
18	12	BENT 1	18	11.5	BENT 1			
25	14.1							
35	11.2	BENT 2	35	9.7	BENT 2			
44	10.3	WEWS						
45	10							
52	8.5	GROUND AT CAP	52	9.2	GROUND AT CAP			
53	4.2	TOP OF CAP						



Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail		75973	
Right Guardrail		100	

#### MEASURMENTS VERIFIED BY RGM ON 8-4-10

Title		Description	
APPROACH ROADWAY	1	LOOKING EAST	
Bridge No: 810034	Drawn By: KMM	Date: 08/26/200	08 File Name: S0242000887



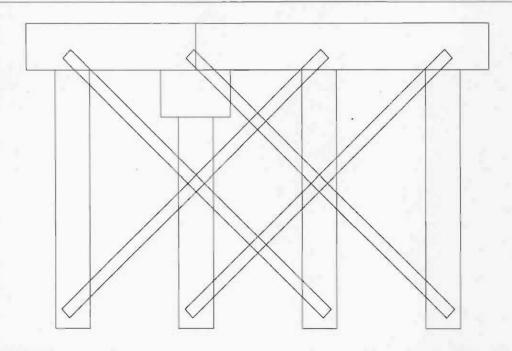
Measurements for Span #	1		
Deck Thickness	.4167	Left Overhang	.4167
Top of Rail to Bottom of Beam	4.1667	Right Overhang	4167

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.8333ft	6 X 14 TIMBER JOIST
2	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
3	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
4	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
5	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
6	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
7	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
8	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
9	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
10	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
11	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
12	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
13	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
14	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
15	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
16	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
17	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
18	Timber (Rectangular)	1.3333ft	6 X 14 TIMBER JOIST
19	Timber (Rectangular)		6 X 14 TIMBER JOIST

MEASURMENTS VERIFIED BY RGM ON 8-4-10

Title TYPICAL SECTION		Description	
		19 LINES OF TIMBER JOISTS	
Bridge No: 810034	Drawn By: KMM	Date: 08/26/2008	File Name: S0242000888

## **Bridge Inspection Field Sketch** Abutment # Cap - Beam Type (Wood or Steel) Cap Size 27.0ft Long 1.0ft Wide .9833ft High Left Overhang 1.5ft Lt Cap/Beam Overhang 1.25ft Right Overhang 1.5ft Rt Cap/Beam Overhang 1.25ft Pile #Material Pile Type Width/Diam. Height Spacing Length Orientation 1 Steel Pile Bent 8.0 .9833 1.0 Vertical 2 Steel Pile Bent 8.0 .9833 1.0 Vertical 3 Steel Pile Bent 8.0 1.0 .9833 Vertical 4 Steel Pile Bent .9833 Vertical MEASURMENTS VERIFIED BY RGM ON 8-4-10 Title Description CRUTCH BENT AT END BENT 1 PILE DIAGRAM Bridge No: 810034 Drawn By: KMM Date: 08/26/2008 File Name: S0242000889

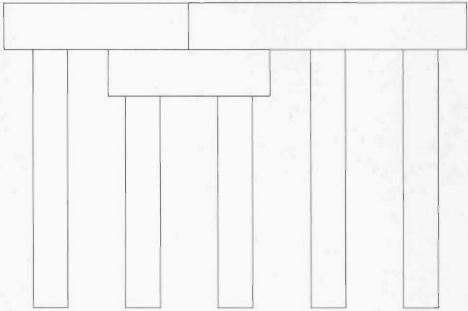


Bent#	1	Bent 2 similar		
Cap - Beam Type (V	Wood or Steel)			
Cap Size	26.0ft Long	1.0ft Wide	1.0ft High	
Left Overhang	1.3333ft	Lt Cap/Beam Overhang	.75ft	
Right Overhang	.6667ft	Rt Cap/Beam Overhang	.75ft	
Timber Sub Cap				
Size	3.0ft Long	.8333ft Wide	.8333ft High	
Left pile to splice	Oft			
Left Overhang	1.5ft			
Right Overhang	1.5ft			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	8.0		1.0	7753	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

#### MEASUREMENTS VERIFIED BY RGM 8/4/10

Title PILE DIAGRAM 1		Descrip BENTS		
Bridge No: 810034	Drawn By: KMM		Date: 08/26/2008	File Name: \$0242000890

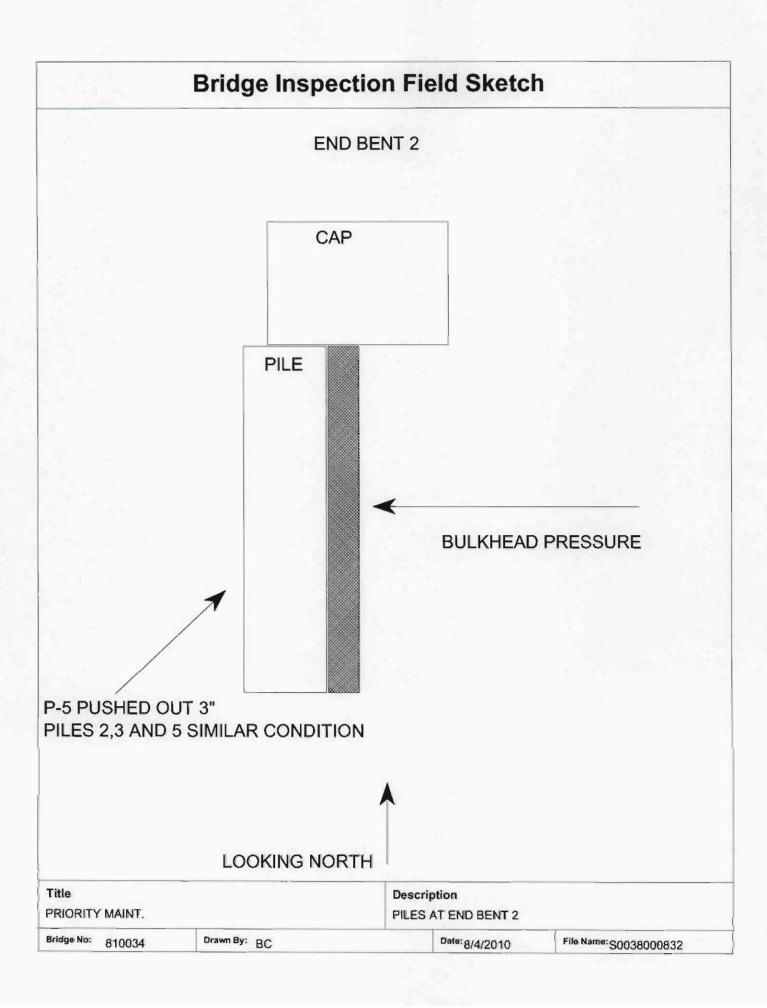


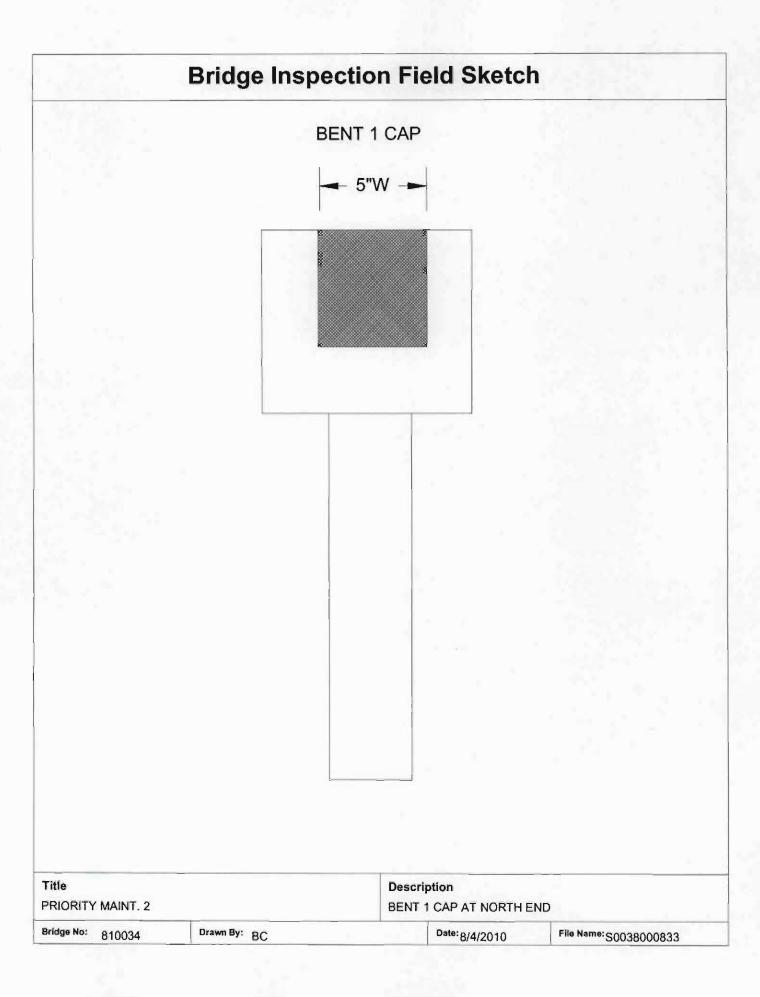
Abutment #	2			
Cap - Beam Type (V	Vood or Steel)			
Cap Size	26.25ft Long	1.0ft Wide	1.0ft High	
Left Overhang		Lt Cap/Beam Overhang	.875ft	
Right Overhang		Rt Cap/Beam Overhang	.875ft	
Timber Sub Cap				
Size	5.0ft Long	.8333ft Wide	.8333ft High	
Left pile to splice	1.5ft			
Left Overhang	1.0ft			
Right Overhang	1.0ft			

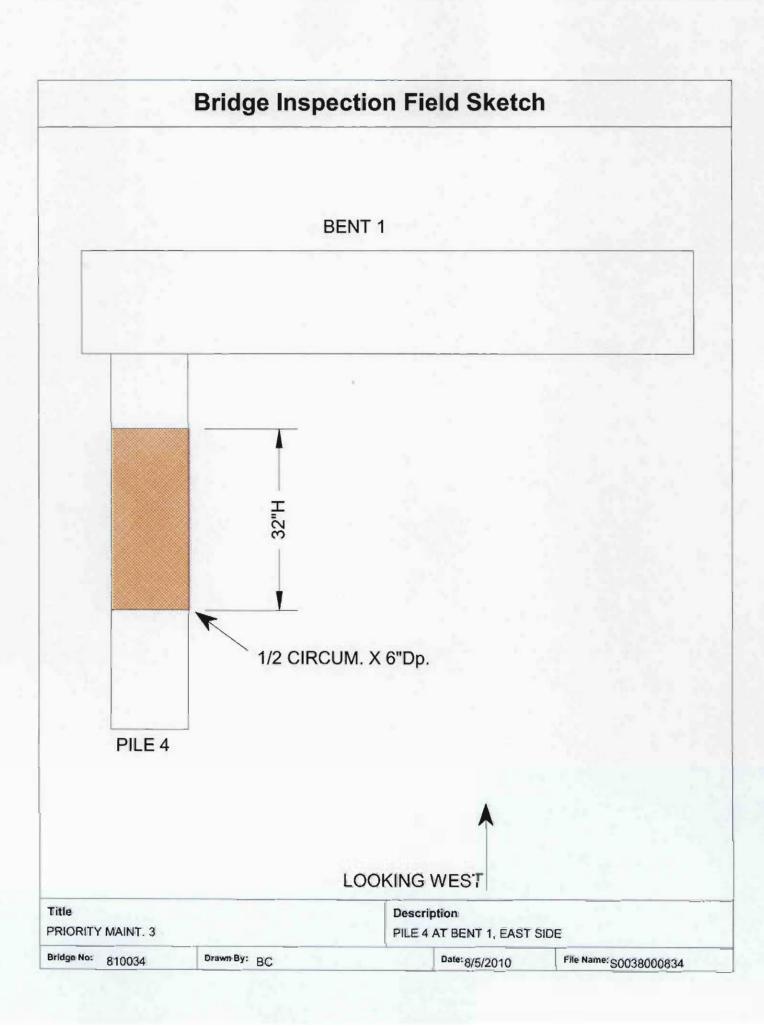
Pile #Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1 Wood or Timber	Pile Bent	6.0		1.0		Vertical
2 Wood or Timber	Pile Bent	3.0		1.0		Vertical
3 Wood or Timber	Pile Bent	6.6667		1.0		Vertical
4 Wood or Timber	Pile Bent	8.0		1.0		Vertical
5 Wood or Timber	Pile Bent			1.0		Vertical

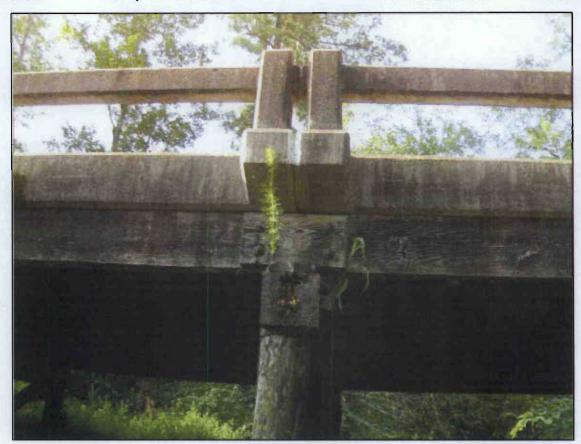
### MEASUREMENTS VERIFIED BY RGM 8/4/10

Title PILE DIAGRAM 2		Descr END E	iption ENT 2	
Bridge No: 810034	Drawn By: KMM		Date: 08/26/2008	File Name: S0242000891





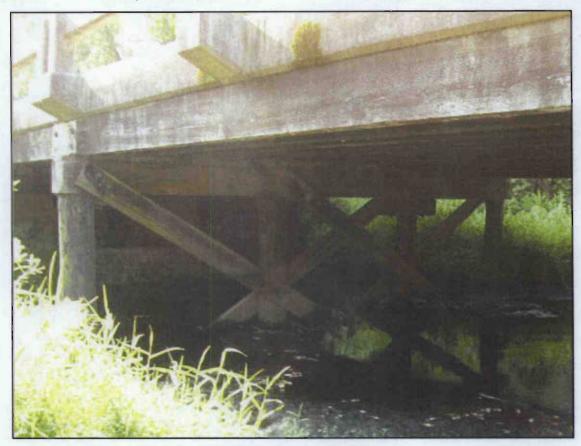




NORTH END OF BENT 1



END BENT 1



**BENT 2 BENT 1 SIMILAR** 



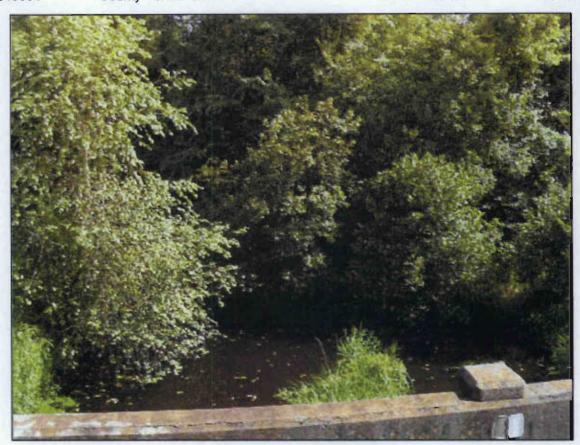
LOOKING EAST



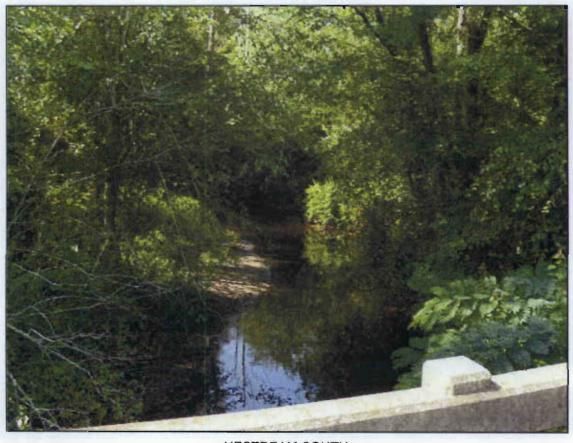
NORTH SIDE



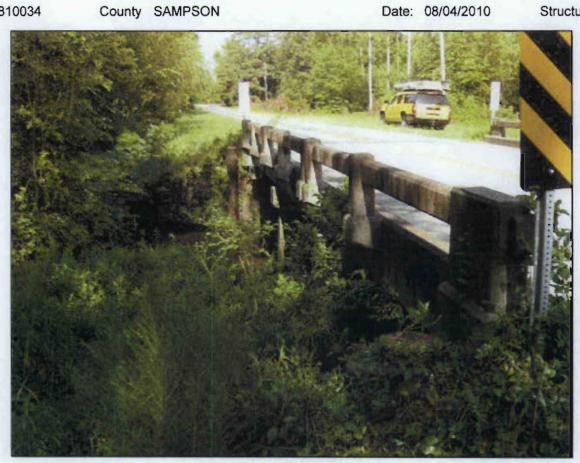
**BENT 1 JOINT** 



DOWNSTREAM NORTH



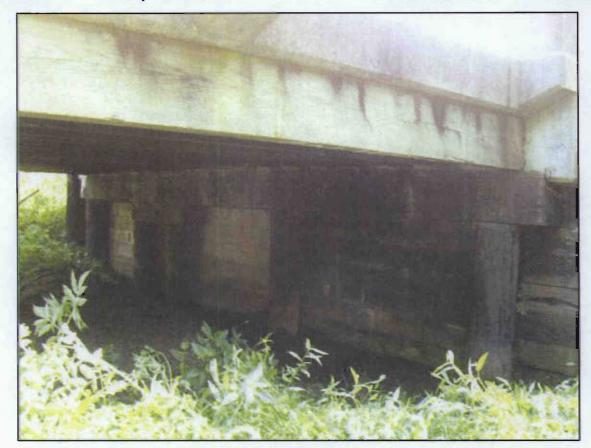
UPSTREAM SOUTH



SOUTH SIDE



LOOKING WEST



**END BENT 2**