



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

STRUCTURE DATA CHANGES / TEMPORARY
SHORING AND REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ROBESON BRIDGE NUMBER 770026 INSPECTION CYCLE 2 YRS
ROUTE SR1955 ACROSS TEN MILE SWAMP M.P. 0

LOCATION 0.2MI.S.JCT.SR1005

SUPERSTRUCTURE STEEL PLANK FLOOR ON I-BEAMS

SUBSTRUCTURE EBTS&IBTS:TIM CAPS&PILES & TIM. CROSSCAPS ADDED @ BT2&3.

SPANS 1 @ 18'3;2 @ 18'1;1 @ 18'3

LONGITUDE 78° 53' 55.25"

LATITUDE 34° 43' 49.95"

INSPECTION DATE 05/15/2014

PRESENT CONDITION POOR

PRESENT POSTING Y **NOT POSTED**

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING NORTH (REGAN ROAD)

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

Run Date: 06/18/2014

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770026	SUFFICIENCY RATING =	33.44	
(8) STRUCTURE NUMBER(FEDERAL)	000000001550026		STATUS =	Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31019550				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		CLASSIFICATION	CODE	
(3) COUNTY CODE 155 (4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -	YES	
(6) FEATURE INTERSECTED - TEN MILE SWAMP			(104)HIGHWAY SYSTEM Is not on NHS	0	
(7) FACILITY CARRIED SR1955			(26) FUNCTIONAL CLASS - Local	09	
(9) LOCATION 0.2MI.S.JCT.SR1005			(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0	
(11)MILEPOINT	0		(101)PARALLEL STRUCTURE - No Parallel Structure	N	
(16)LAT 34° 43' 49.95" (17)LONG 78° 53' 55.25"			(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: Steel			(31) MAINTAIN - State Highway Agency	01	
TYPE - Stringer Mutlibeam or Girder	CODE	302	(22) OWNER - State Highway Agency	01	
(44) STRUCTURE TYPE APPR :			(37) HISTORICAL SIGNIFICANCE - Not Eligible	5	
TYPE -	CODE	000	CONDITION	CODE	
(45) NUMBER OF SPANS IN MAIN UNIT		4	(58) DECK	4	
(46) NUMBER OF APPROACH SPANS			(59) SUPERSTRUCTURE	4	
(107)DECK STRUCTURE TYPE - 6	CODE		(60) SUBSTRUCTURE	4	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(61) CHANNEL & CHANNEL PROTECTION	5	
(A) TYPE OF WEARING SURFACE -	CODE		(62) CULVERTS	N	
(B) TYPE OF MEMBRANE -	CODE		LOAD RATING AND POSTING	CODE	
(C) TYPE OF DECK PROTECTION -	CODE		(31) DESIGN LOAD Unknown	0	
AGE AND SERVICE			(63) OPERATING RATING METHOD - Load Factor	1	
(27) YEAR BUILT		1977	(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 - No Posting Required	5	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	D	
(29) AVERAGE DAILY TRAFFIC		710	DESCRIPTION - Open Temporary Shoring		
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT		6%	APPRAISAL	CODE	
(19) BYPASS OR DETOUR LENGTH		8 MI	(67) STRUCTURAL EVALUATION	3	
GEOMETRIC DATA			(68) DECK GEOMETRY	5	
(48) LENGTH OF MAXIMUM SPAN		18 FT	(69) UNDERCLEARANCES,VERTI & HORIZ	N	
(49) STRUCTURE LENGTH		73 FT	(71) WATERWAY ADEQUACY	7	
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT		0 FT	(72) APPROACH ROADWAY ALIGNMENT	8	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		27.292 FT	(36) TRAFFIC SAFETY FEATURES	0000	
(52) DECK WIDTH OUT TO OUT		28.292 FT	(113)SCOUR CRITICAL BRIDGES	U	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		20 FT	PROPOSED IMPROVEMENTS	CODE	
(33) BRIDGE MEDIAN - No Median	CODE	0	(75) TYPE OF WORK -		
(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		27.292 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 1420 (115) YEAR FUTURE ADT	2025	
(56) MIN LAT UNDERCLEAR LT REF -		000 FT	INSPECTIONS		
NAVIGATION DATA			(90) INSPECTION DATE	05/15/2014	
(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 - YES 48Mo	B) 02/26/2013	
(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: 06/18/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770026	73	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1955	TEN MILE SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.2MI.S.JCT.SR1005		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	710 2012	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1977	BMU			Unknown

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

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		17 FT		11		FT

SUPERSTRUCTURE :	STEEL PLANK FLOOR ON I-BEAMS
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SUBSTRUCTURE :	EBTS&IBTS:TIM CAPS&PILES & TIM. CROSSCAPS ADDED @ BT2&3.
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SPANS :	1 @ 18'3;2 @ 18'1;1 @ 18'3
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BEAMS OR GIRDERS :	15 LINES 12 I-BEAMS @ 23.125 CTS.
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
STL.PLK/5 AWS		28.292 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
27.292 FT	27.292 FT	LT 0 FT RT 0 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		DATE
HS-1	HS-1	Bm 8 Sp3	SV	TTST	06/04/2012

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 770026 COUNTY ROBESON ROUTE SR1955 OVER TEN MILE SWAMP
 STRUCTURE TYPE STEEL PLANK FLOOR ON I-BEAMS
 ROUTE ORIENTATION S - N SPANS 1 @ 18'3"; 2 @ 18'1"; 1 @ 18'3"

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

INSPECTION ITEM				ITEM 61			
DECK ITEMS			GRADES	45. CHANNEL & CHANNEL PROT.			
1. WEARING SURFACE			F	a. WATERWAY			F
				b. ALIGNMENT			G
				c. SCOUR			G
				d. SLOPE PROT., RIP-RAP, DIKES, ETC.			
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE			50. APPROACH ROADWAY CONDITION			F
	b. TIMBER			51. APPROACH SLABS			
	c. STEEL PLANK	4	P	52. PAINT SYSTEM CODE A			P
	d. OPEN GRID			53. UTILITIES			
3. RAILING	a. CONCRETE			54. RESPONSE TO LIVE LOAD			G
	b. TIMBER			55. ESTIMATED REMAINING LIFE			6
	c. ALUMINUM						
	d. STEEL		G				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G				
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			NO
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			12
	d. STANDARD JOINTS			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			4
10. LONGITUDINAL BEAMS OR GIRDERS			P	b. SUPERSTRUCTURE ITEM 59			4
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE ITEM 60			5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT. ITEM 61			5
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)			G	b. APPR. RDWY. ALIGNMENT			8
17. MOVABLE SPAN MACHINERY							
				72. FIELD SCOUR EVALUATION			O
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)							
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		F	USE OF INSP. ACCESSIBILITY EQUIPMENT			
	b. PILES, POST, SILLS, & BRACING		F	SNOOPER (CODE S, 4, OR N) HRS			NO
	c. BULKHEADS, WING'S, & TIE BACKS		F	LADDER			NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS			BUCKET TRUCK			NO
	b. ABUT. & BENT COL'S BREASTWALLS			BOAT			YES
	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			SPECIAL INSPECTION REQUESTED FOR			
	b. PILES, BRACING, AND BULKHEADS						
38. FOUNDATION PILES TYPE MATERIAL				NOTE			
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)							
40. FENDER SYSTEMS				80. INSPECTED BY: <i>RJ Hoot</i>			
41. DRIFT			G	81. REVIEWED BY:			

BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES

BRIDGE 770026

COUNTY Robeson

DATE 5-7-01

THE FOLLOWING S. I. & 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			T	JRJ
SI & A ITEM 59 - SUPERSTRUCTURE			—	
SI & A ITEM 60 - SUBSTRUCTURE			4	JRJ
SI & A ITEM 64 - OPERATING RATING	HS <u>0</u>	BY <u>CM</u>	<u>101</u>	<u>ADR</u>
SI & A ITEM 64 - INVENTORY RATING	HS <u>0</u>	BY <u>CM</u>	<u>101</u>	<u>ADR</u>

COMMENTS: crosscaps at bent 2&3

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 R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
1	F	(ASPHALT WEARING SURFACE) THERE ARE SEALED CRACKING IN ALL SPANS. (PHOTO)	
2c	P	SPAN 4 ASPHALT WEARING SURFACE HAS CRACKING AND IS SETTLED UP TO 1 1/2" AT MIDSPAN. (PHOTO) (STEEL PLANK FLOOR) THERE IS SURFACE RUST NOTED AT RANDOM. THERE IS RUST AND CORROSION IN STEEL PLANK FLOOR AT SPAN 4 BAY 8. THIS IS SIMILAR THROUGHOUT ALL SPANS AND BAYS. (PHOTO)	
3d	G	NOTE: THERE IS CONDENSATION ALONG BRIDGE UNDERSIDE AT ALL SPANS. (STEEL RAILS) THERE IS SURFACE RUST NOTED ON THE RAILS. (PHOTO)	
4	G	(STEEL CURBS) THERE IS SURFACE RUST ON BOTH STEEL WHEELGUARDS. (PHOTOS)	
10	P	(STEEL BEAMS) THE BEAMS HAS SURFACE RUST SCALE THROUGHOUT AT RANDOM. SPAN 1 BEAMS HAS RUST AND SCALING THROUGHOUT. ALL SPANS ARE SIMILAR. (PHOTO) BEAM 4 IN SPAN 1 AT 10' FROM END BENT 1 3/16" SECTION LOSS IN B. FLANGE 14" L X 2" W WITH 1/8" REMAINING. (PHOTO) BEAM 5 IN SPAN 3 BOTH FLANGES RUST & 1/8" SECTION LOSS. (PHOTO) BEAMS 7 AND 8 IN SPAN 3 ARE SIMILAR. BEAM 8 IN SPAN 3 AT BENT 3 RUST AND 1/8" SECTION LOSS 8' LONG IN BOTH FLANGES. (PHOTO) BEAM 8 IN SPAN 3 AT MIDSPAN TO BENT 3 CAP RUST WITH 1/8" SECTION LOSS X 1" W X 8' L WITH 3/8" REMAINING. (PHOTO) BEAM 7 IN SPAN 4, BAY 6 SIDE RUST ,1/8" SECTION LOSS 3' L X 2" H IN WEB, BEGINNING 3' FROM END BENT 2 CAP. (PHOTO) BEAM 7 SPAN 4 BAY 7 SIDE BOTTOM FLANGE RUST WITH 1/8" SECTION LOSS 3' L X 1 1/2" W FROM END BENT 2 CAP. (PHOTO)	
10A	NO	(CURVED GIRDERS) NO CURVED GIRDERS.	
15	F	(BEARING ASSEMBLIES) THERE IS RUST NOTED AT RANDOM.	

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 R.D. HEATH				
Assisted By R.L. KISNER				
Item No.	Grade			
52	P	(PAINT SYSTEM) PAINT CODE (A) SPAN 1 BEAMS HAS PAINT PEELING AND RUST. ALL SPANS ARE SIMILAR. (PHOTO) PAINT PEELING AND SURFACE RUST ON BEAM 1 EXTERIOR AT SPANS 1 AND 2. (PHOTO) BEAMS HAS RUST AND SCALING IN MANY BEAMS IN SPAN 1. (PHOTO) SPAN 2 BEAMS HAS PAINT PEELING AND SCALING RUST THROUGHOUT. (PHOTO)		
35a	F	RUST ALONG SPAN 4 BEAMS, PAINT FAILURE. ALL SPANS ARE SIMILAR. (PHOTO) (TIMBER CAPS) END BENT 1 MAIN CAP IS ROTATED 3/4" OUT OF PLUMB WITH 3/4" SPACING AT PILE TOPS. (PHOTO) EAST END OF BENT 1 CAP IS DECAYED 6" W X 7" H X 3" D. (PHOTO) BENT 2 SUB CAP, SPAN 2 FACE HAS 1/4" CHECKS. (PHOTO)		
35b	F	END BENT 2 MAIN CAP IS ROTATED 1/2" OFF TOP OF PILES. (PHOTO) (TIMBER PILES) PILE 1 AT END BENT 1 IS SURFACE DECAYED. (PHOTO) PILE 1 AT BENT 1 WEST FACE HAS 1/4" WIDE X 1" DEEP VERTICAL CHECK. (PHOTO) TIMBER CRUTCH BENT RIGHT OF PILE 4 AT BENT 2, TEMP REPAIR. (PHOTO) PILE 2 AT BENT 1 SPAN 2 NORTH FACE IS DELAMED AND SURFACE DECAYED 42" H X 8" W X 1" D. (PHOTO) TIMBER CRUTCH BENT BETWEEN PILES 6 AND 7 AT BENT 2, TEMP REPAIR. (PHOTO) TIMBER CRUTCH BENT RIGHT OF PILE 1 AT BENT 3, TEMP REPAIR. (PHOTO) PILE 4 AT END BENT 2 IS ENCASED, TEMP REPAIR. (PHOTO) PILE 4 AT BENT 3 WEST FACE IS DECAYED 2' HIGH X 10" WIDE X 4" DEEP. (PHOTO) ALSO SEE SKETCH. PILE 3 AT END BENT 2 IS DECAYED FULL CIRCUMFERENCE X 13" H X UP TO 2" DEEP. (PHOTO) PILE 6 AT END BENT 2 IS SURFACE DECAYED 12" H X 4" W X UP TO 2" D. (PHOTO) PILE 1 AT END BENT 2 HAS FIBER SEPARATION 12" H X 3" W X 1" D. (PHOTO) PILE 6 AT BENT 3, SPAN 4 FACE IS DECAYED 5" HIGH X 1 1/2" WIDE X 1" DEEP NEAR CAP. (PHOTO)		

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 R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
35c	F	(TIMBER BULKHEADS) THE TOP WINGWALL BOARD IS MISSING AT SOUTHEAST CORNER. (PHOTO)	
		END BENT 1 BULKHEAD BOARDS ARE DECAYED BETWEEN PILES 5 AND 6, AND 6 AND 7. (PHOTO)	
41	G	(DRIFT) SEE DIVERS UNDERWATER INSPECTION REPORT DATED 2/26/2013.	
45a	F	(WATERWAY) THERE IS AN OLD BULKHEAD IN SPAN 4 WATERWAY.	
		SEE DIVERS UNDERWATER INSPECTION REPORT DATED 2/26/2013.	
45b	G	(CHANNEL ALIGNMENT) SEE DIVERS UNDERWATER INSPECTION REPORT DATED 2/26/2013.	
45c	G	(SCOUR) SEE SCOUR REPORT DATED 6/24/2010.	
		SEE DIVERS UNDERWATER INSPECTION REPORT DATED 2/26/2013.	
50	F	(APPROACH ROADWAY) THERE ARE SEALED CRACKS IN BOTH APPROACHES. (PHOTOS)	
54	G	(RESPONSE TO LIVE LOAD) THERE IS SOME VIBRATION UNDER TRUCK LOADS.	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770026

County ROBESON

Date: 05/15/2014

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	2	SPAN 4 ASPHALT WEARING SURFACE HAS CRACKING AND IS SETTLED UP TO 1 1/2" AT MIDSPAN	
3314	Maintain Steel Superstructure Components	LF	3	BEAM 7 SPAN 4 BAY 7 SIDE BOTTOM FLANGE RUST WITH 1/8" SECTION LOSS 3' L X 1 1/2" W FROM END BENT 2 CAP	
3314	Maintain Steel Superstructure Components	LF	4	BEAM 7 IN SPAN 4, BAY 6 SIDE RUST ,1/8" SECTION LOSS 3' L X 2" H IN WEB, BEGINNING 3' FROM END BENT 2 CAP	
3314	Maintain Steel Superstructure Components	LF	5	BEAM 4 IN SPAN 1 AT 10' FROM END BENT 1 3/16" SECTION LOSS IN B. FLANGE 14" L X 2" W WITH 1/8" REMAINING	
3314	Maintain Steel Superstructure Components	LF	8	BEAM 8 IN SPAN 3 AT MIDSPAN TO BENT 3 CAP RUST WITH 1/8" SECTION LOSS X 1" W X 8' L WITH 3/8" REMAINING	
3314	Maintain Steel Superstructure Components	LF	54	BEAM 5 IN SPAN 3 BOTH FLANGES RUST & 1/8" SECTION LOSS , BEAMS 7 AND 8 IN SPAN 3 ARE SIMILAR	
3342	Clean and Paint Structural Steel	SF	3970	SPAN 1 SUPERSTRUCTURE WITH PAINT PEELING AND RUST , ALL SPANS ARE SIMILAR	
3344	Repair / Replace Timber Substructure Components	LF	1	EAST END OF BENT 1 CAP IS DECAYED 6" W X 7" H X 3" D	
3344	Repair / Replace Timber Substructure Components	LF	1	PILE 6 AT END BENT 2 IS SURFACE DECAYED 12" H X 4" W X UP TO 2" D	
3344	Repair / Replace Timber Substructure Components	LF	2	PILE 3 AT END BENT 2 IS DECAYED FULL CIRCUMFERENCE X 13" H X UP TO 2" DEEP	
3344	Repair / Replace Timber Substructure Components	LF	2	PILE 4 AT BENT 3 WEST FACE IS DECAYED 2' HIGH X 10" WIDE X 4" DEEP SEE SKETCH	
3344	Repair / Replace Timber Substructure Components	LF	4	PILE 2 AT BENT 1 SPAN 2 NORTH FACE IS DELAMED AND SURFACE DECAYED 42" H X 8" W X 1" D	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770026

County ROBESON

Date: 05/15/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3346	Repair / Maintain Timber Wings & Blkhdrs	SF	2	TOP WINGWALL BOARD MISSING AT SOUTHEAST CORNER	
3346	Repair / Maintain Timber Wings & Blkhdrs	SF	12	END BENT 1 BULKHEAD BOARDS ARE DECAYED BETWEEN PILES 5 AND 6 , AND 6 AND 7	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



TOP WINGWALL BOARD MISSING AT SOUTHEAST CORNER



END BENT 1 BULKHEAD BOARDS ARE DECAYED BETWEEN PILES 5 AND 6 , AND 6 AND 7



END BENT 1 MAIN CAP IS ROTATED 3/4" OUT OF PLUMB WITH 3/4" SPACING AT PILE TOPS



PILE 1 AT END BENT 1 IS SURFACE DECAYED



SPAN 1 SUPERSTRUCTURE WITH PAINT PEELING AND RUST, ALL SPANS ARE SIMILAR



PAINT PEELING AND SURFACE RUST ON BEAM 1 EXTERIOR AT SPANS 1 AND 2



PILE 1 AT BENT 1 WEST FACE HAS 1/4" WIDE X 1" DEEP VERTICAL CHECK



SPAN 1 BEAM FLANGES HAS RUST AND SCALING THROUGHOUT, ALL SPANS ARE SIMILAR



SPAN 1 BEAMS WEBS AND FLANGES, RUST AND SCALING IN MANY BEAMS



BEAM 4 IN SPAN 1 AT 10' FROM END BENT 1 3/16" SECTION LOSS IN B. FLANGE 14" L X 2" W WITH 1/8" REMAINING



EAST END OF BENT 1 CAP IS DECAYED 6" W X 7" H X 3" D



BENT 2 SUBCAP, SPAN 2 FACE HAS 1/4" CHECKS



TIMBER CRUTCH BENT RIGHT OF PILE 4 AT BENT 2, TEMP REPAIR



PILE 2 AT BENT 1 SPAN 2 NORTH FACE IS DELAMED AND SURFACE DECAYED 42" H X 8" W X 1" D



TIMBER CRUTCH BENT BETWEEN PILES 6 AND 7 AT BENT 2, TEMP REPAIR



SPAN 2 UNDERSIDE, WITH PAINT PEELING AND SCALING RUST THROUGHOUT



TIMBER CRUTCH BENT RIGHT OF PILE 1 AT BENT 3, TEMP REPAIR



BEAM 5 IN SPAN 3 BOTH FLANGES RUST AND 1/8" SECTION LOSS, BEAMS 7 AND 8 IN SPAN 3 ARE SIMILAR



BEAM 8 IN SPAN 3 AT BENT 3 RUST AND 1/8" SECTION LOSS 8' LONG IN BOTH FLANGES



BEAM 8 IN SPAN 3 AT MID SPAN TO BENT 3 CAP RUST WITH 1/8" SECTION LOSS X 1" W X 8' L WITH 3/8" REMAINING



PILE 4 AT END BENT 2 IS ENCASED, TEMP REPAIR



PILE 4 AT BENT 3 WEST FACE IS DECAYED 2' HIGH X 10" WIDE X 4" DEEP SEE SKETCH



PILE 3 AT END BENT 2 IS DECAYED FULL CIRCUMFERENCE X 13" H X UP TO 2" DEEP



PILE 6 AT END BENT 2 IS SURFACE DECAYED 12" H X 4" W X UP TO 2" D



PILE 1 AT END BENT 2 HAS FIBER SEPARATION 12" H X 3" W X 1" D



END BENT 2 MAIN CAP IS ROTATED 1/2" OFF TOP OF PILES



BEAM 7 IN SPAN 4, BAY 6 SIDE RUST ,1/8" SECTION LOSS 3' L X 2" H IN WEB, BEGINNING 3' FROM END BENT
2 CAP



RUST IN SPAN 4 BEAMS, PAINT FAILURE ALL SPANS ARE SIMILAR



BEAM 7 SPAN 4 BAY 7 SIDE BOTTOM FLANGE RUST WITH 1/8" SECTION LOSS 3' L X 1 1/2" W FROM END
BENT 2 CAP



RUST AND CORROSION IN STEEL PLANK FLOOR IN SPAN 4 AT BAY 8, SIMILAR THROUGHOUT ALL SPANS IN ALL BAYS



PILE 6 AT BENT 3, SPAN 4 FACE IS DECAYED 5" HIGH X 1 1/2" WIDE X 1" DEEP NEAR CAP



SEALED TRANSVERSE CRACKS IN SOUTH APPROACH ASPHALT WEARING SURFACE



SURFACE RUST ON RIGHT STEEL WHEELGUARD



SEALED CRACKING IN ALL SPANS



LEFT STEEL WHEELGUARD HAS SURFACE RUST



SURFACE RUST ON BOTH RAILS, MORE ON TOP OF POSTS



SPAN 4 ASPHALT WEARING SURFACE HAS CRACKING AND IS SETTLED UP TO 1 1/2" AT MIDSPAN



SEALED TRANSVERSE CRACKS IN NORTH APPROACH ASPHALT WEARING SURFACE

Structure Data Worksheet

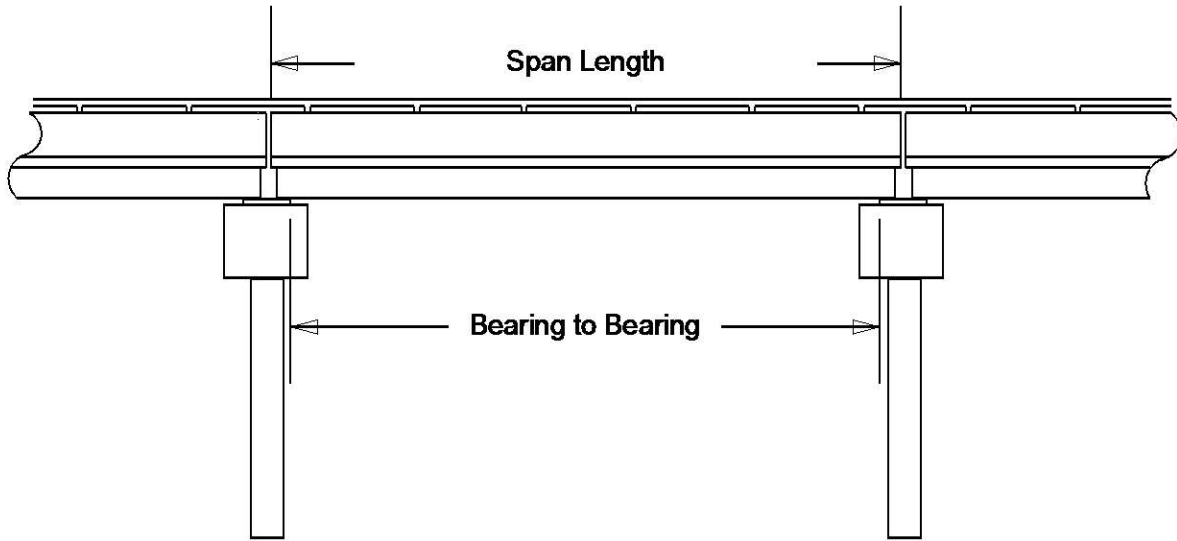
Spans

County: ROBESON

Structure No: 770026

Date: 05/15/2014

Inspected By: RDH



Span No	Span Length	Bearing to Bearing	Comments
1	18.25 FT.	17.083 FT.	NBIS 69.5 FT.
2	18.083 FT.	17.5 FT.	
3	18.083 FT.	17.5 FT.	
4	18.25 FT.	17.083 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770026 County: ROBESON Date: 05/15/2014 By: RDH

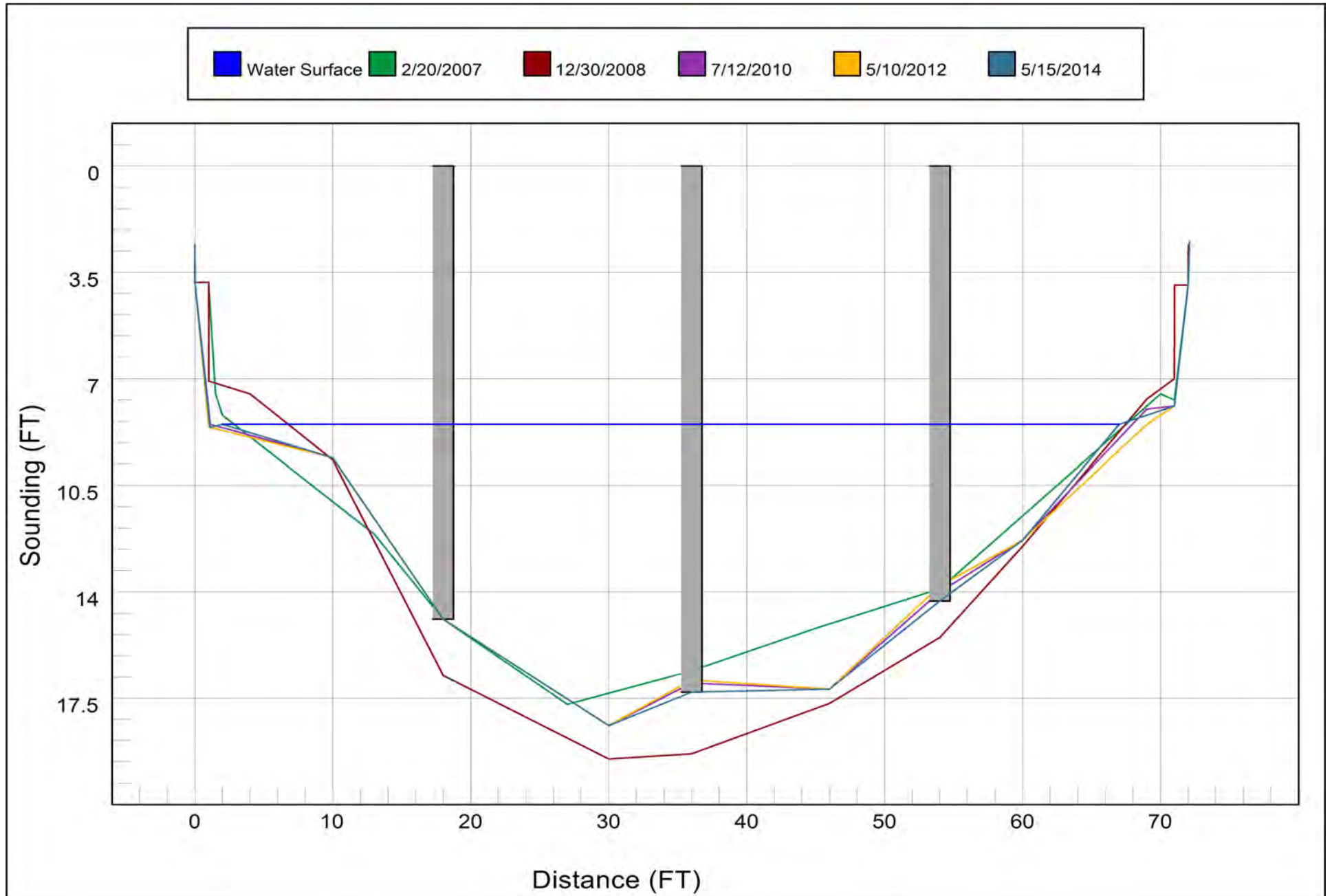
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 3 Location of Highwater Mark: DEBRIS ON SUPERSTRUCTURE

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.6	TOP OF BULKHEAD			
0.02	3.9	Top of Cap			
1.1	8.6	GROUND AT CAP	1.1	7.8	GROUND AT CAP
2	8.5	WSWE (EAST)			
10	9.6				
18	14.9	BENT 1	18	17	BENT 1
30	18.4				
36	17.3	BENT 2	36	19.7	BENT 2
46	17.2				
54	14.3	BENT 3	54	15	BENT 3
60	12.3				
67	8.5	WSWE			
71	7.9	GROUND AT CAP	71	7.2	GROUND AT CAP
72	3.9	Top of Cap			
72.1	2.5	TOP OF BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-1955 (REGAN ROAD)

Roadway	20ft Wide	2 Paved Lanes	Looking North
Left Shoulder	10ft Wide		10ft Unpaved
Right Shoulder	10ft Wide		10ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY RLK 7/12/10
MEASUREMENTS VERIFIED BY RLK 5/10/12
MEASUREMENTS VERIFIED BY RLK 5/15/14

Title

Approach Roadway

Description

Looking North

Bridge No: 770026

Drawn By: GRC

Date: 2/6/2009

File Name: S0234001077

Bridge Inspection Field Sketch

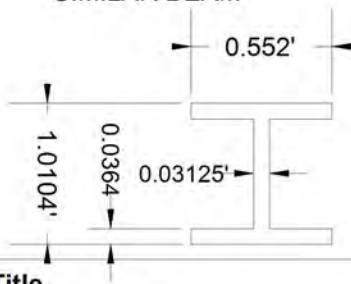
Deck Width/Out to Out	28.292ft	Between Rails	27.292ft
Clear Roadway	27.292ft	Wearing Surface	0.2083ft
Median Width		Median Height	
Curb Height		Left 0.5ft	Right 0.5ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left 0.792ft	Right 0.792ft
Top of Rail to Deck/Wearing Surface		Left 2.5ft	Right 2.5ft
Bridge Rail		Left Type 23	Right Type 23



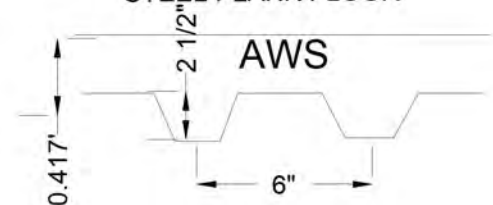
Measurements for Span #	1		
Deck Thickness	0.208	Left Overhang	0.657
Top of Rail to Bottom of Beam	3.875	Right Overhang	0.657

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	1.927ft	
2	Steel I Beam	1.927ft	
3	Steel I Beam	1.927ft	
4	Steel I Beam	1.927ft	
5	Steel I Beam	1.927ft	
6	Steel I Beam	1.927ft	
7	Steel I Beam	1.927ft	
8	Steel I Beam	1.927ft	
9	Steel I Beam	1.927ft	
10	Steel I Beam	1.927ft	
11	Steel I Beam	1.927ft	
12	Steel I Beam	1.927ft	
13	Steel I Beam	1.927ft	
14	Steel I Beam	1.927ft	
15	Steel I Beam	ft	

SIMILAR BEAM



STEEL PLANK FLOOR



Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

Bridge No: 770026

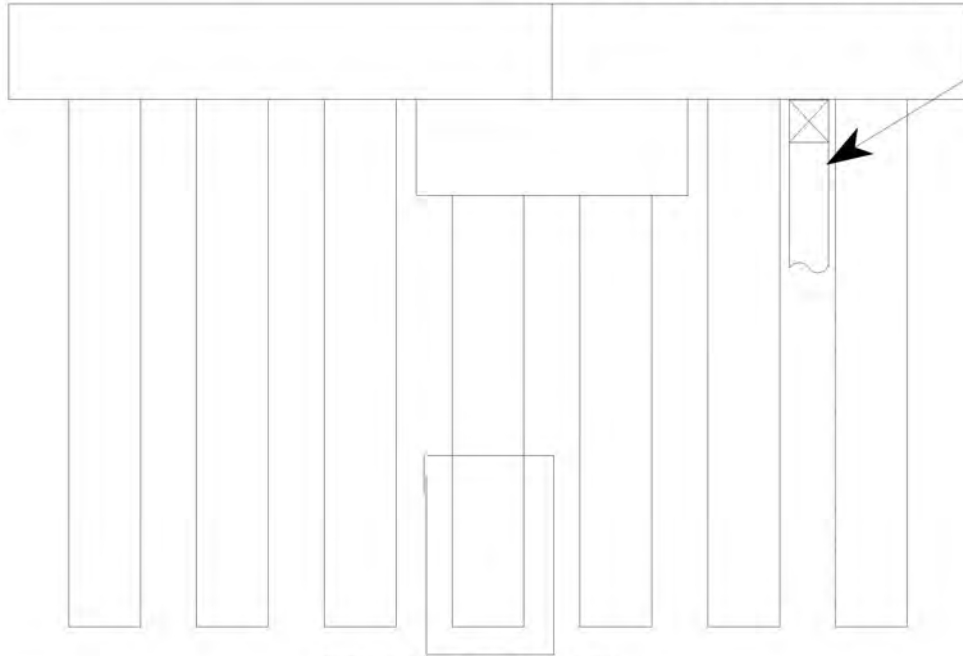
Drawn By: RLK

Date: 5/15/2014

File Name: S0234001078

Bridge Inspection Field Sketch

BENT-3 HAS 4.17' CRUTCHBENT WITH 2-12" PILES



PILE 4 AT EBT2 ENCASED

Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	30.0ft Long	0.89583ft Wide	0.983ft High
Left Overhang	1.0ft	Lt Cap/Beam Overhang	1.67ft
Right Overhang	0.83ft	Rt Cap/Beam Overhang	1.58ft
Timber Sub Cap			
Size	7.5ft Long	0.9167ft Wide	0.9583ft High
Left pile to splice	1.0ft		
Left Overhang	1.25ft		
Right Overhang	1.41ft		

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	4.33		1		Vertical
2	Wood or Timber	Pile Bent	4.67		1		Vertical
3	Wood or Timber	Pile Bent	5.0		1		Vertical
4	Wood or Timber	Pile Bent	4.84		1		Vertical
5	Wood or Timber	Pile Bent	4.42		1		Vertical
6	Wood or Timber	Pile Bent	4.92		1		Vertical
7	Wood or Timber	Pile Bent			1		Vertical

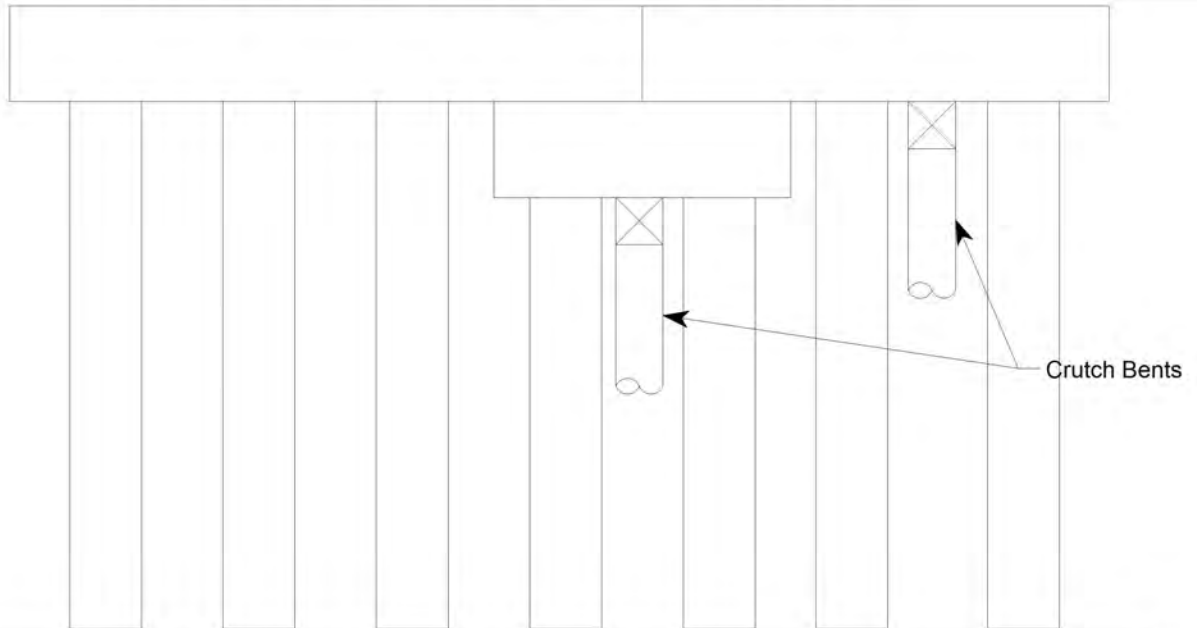
MEASUREMENTS VERIFIED BY RLK 7/12/10

MEASUREMENTS VERIFIED BY RLK 5/10/12

MEASUREMENTS VERIFIED BY RLK 5/15/14

Title	Description		
SUBSTRUCTURE	SIMILAR END BENTS - AND BENTS 1 & 3		
Bridge No: 770026	Drawn By: GRC	Date: 2/10/2009	File Name: S0234001079

Bridge Inspection Field Sketch



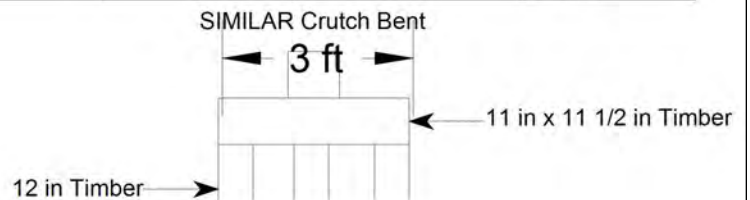
Bent #	2		
Cap - Beam Type (Wood or Steel)			
Cap Size	30.0ft Long	0.95ft Wide	1.0ft High
Left Overhang	0.83ft	Lt Cap/Beam Overhang	1.67ft
Right Overhang	0.67ft	Rt Cap/Beam Overhang	1.58ft
Timber Sub Cap			
Size	9ft Long	0.95ft Wide	1.0ft High
Left pile to splice	.75ft		
Left Overhang	3.25ft		
Right Overhang	1.25ft		

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	4.667		1		Vertical
2	Wood or Timber	Pile Bent	4.5		1		Vertical
3	Wood or Timber	Pile Bent	5.25		1		Vertical
4	Wood or Timber	Pile Bent	4.50		1		Vertical
5	Wood or Timber	Pile Bent	4.67		1		Vertical
6	Wood or Timber	Pile Bent	4.92		1		Vertical
6	Wood or Timber	Pile Bent			1		Vertical

MEASUREMENTS VERIFIED BY RLK 7/12/10

MEASUREMENTS VERIFIED BY RLK 5/10/12

MEASUREMENTS VERIFIED BY RLK 5/15/14



Title

SUBSTRUCTURE 1

Description

BENT 2 & CRUTCH BENTS

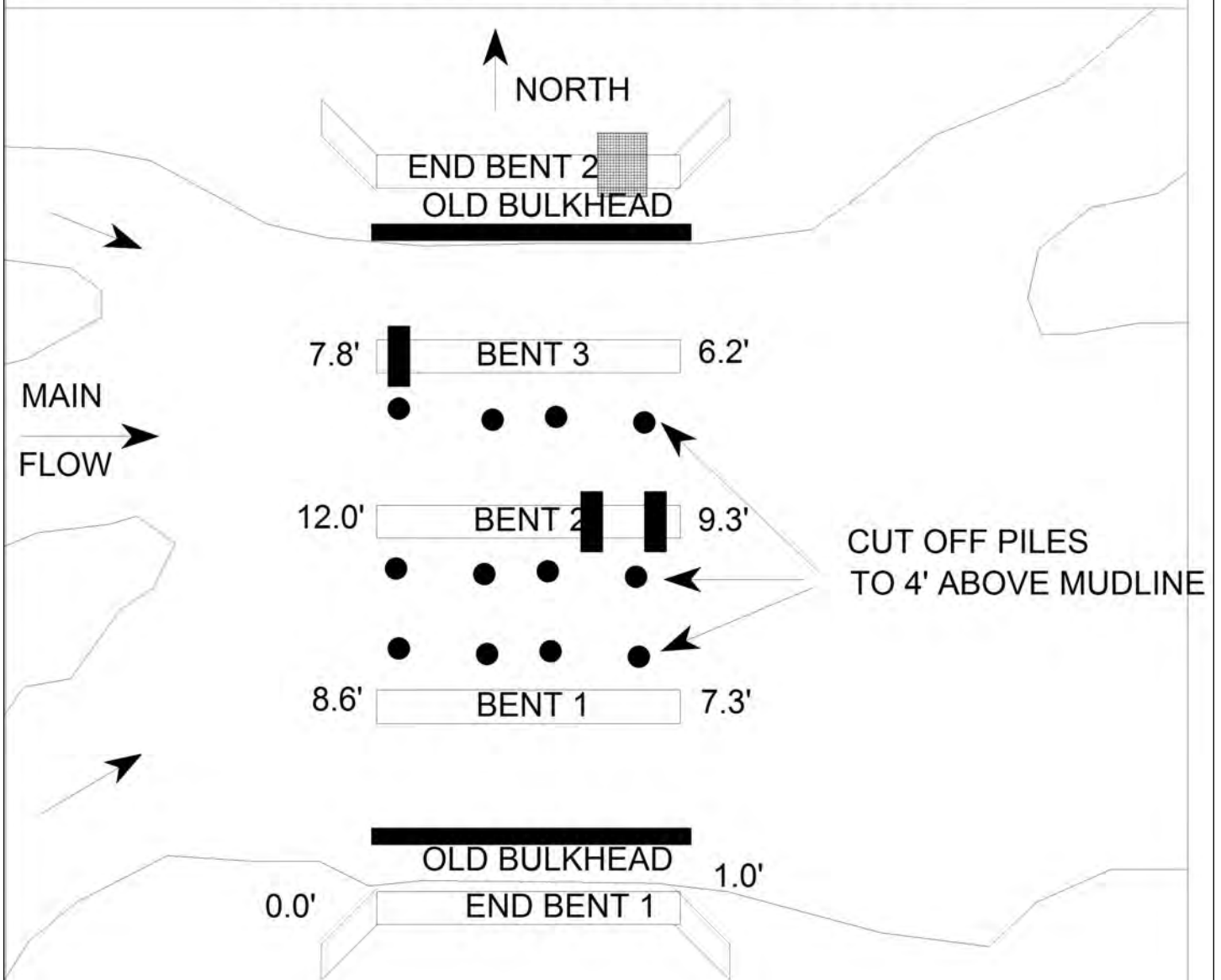
Bridge No: 770026

Drawn By: GRC

Date: 2/6/2009

File Name: S0234001080

Bridge Inspection Field Sketch



W/S TO TOP OF RAIL - 7.5'

SILT/SAND BOTTOM WITH PROBES TO 2'

Title
PLAN VIEW

Description
CHANNEL OVERVIEW

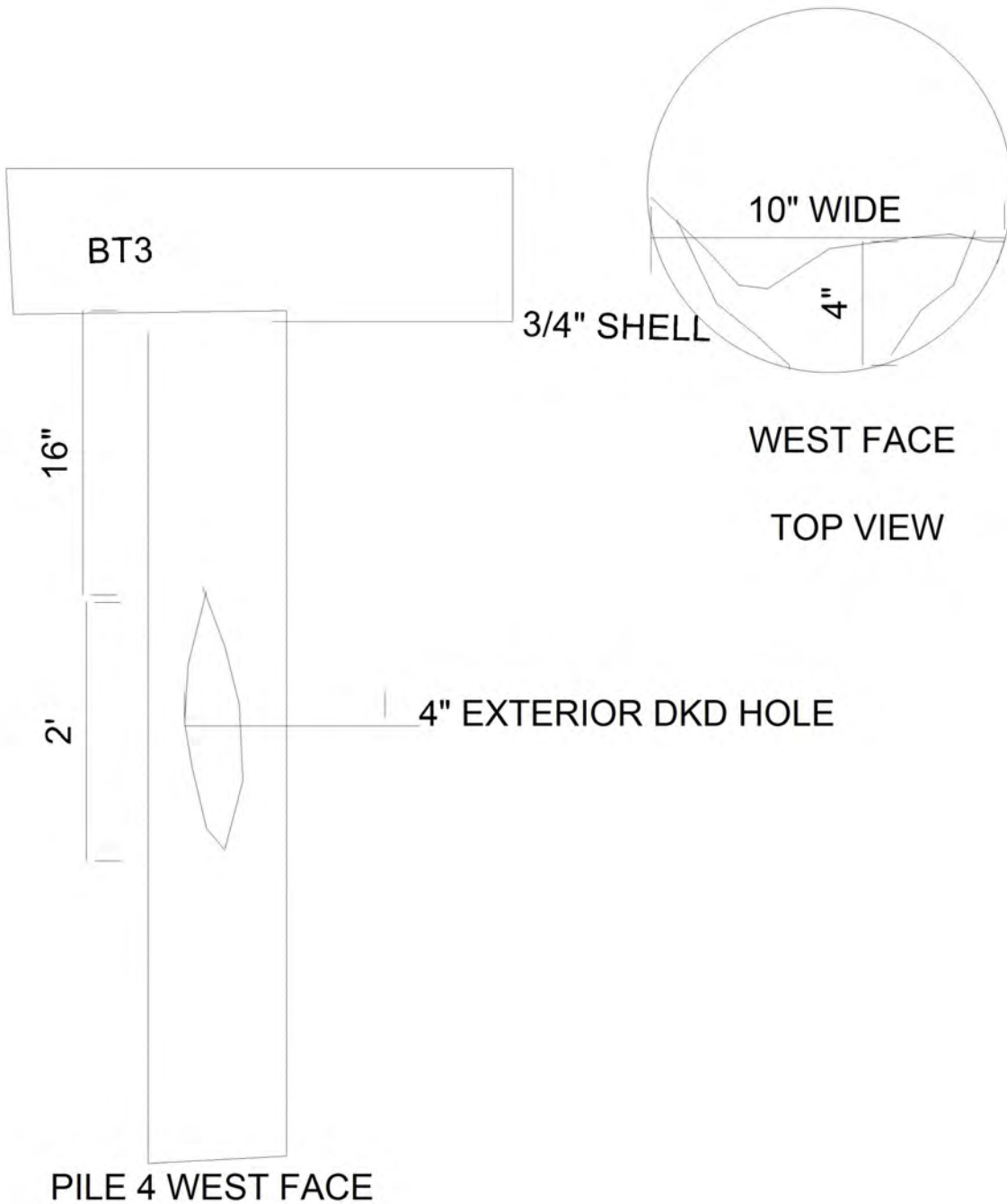
Bridge No: 770026

Drawn By: WRM

Date: 3/4/2009

File Name: S0174012491

Bridge Inspection Field Sketch

**Title**

PILE 4 DECAY

Description

BENT 3 PILE 4

Bridge No: 770026

Drawn By: RLK

Date: 5/15/2014

File Name: S0098001550



EAST PROFILE



END BENT 1



BENT 1



WEST END OF BENT 1



WEST PROFILE



UPSTREAM WEST, THRU SPAN 2



DOWNSTREAM EAST, THRU SPAN 2



END BENT 2



SPAN 3 UNDERSIDE, ALL SPANS ARE SIMILAR



LOOKING NORTH (REGAN ROAD)



LOOKING SOUTH, OFF BRIDGE



UPSTREAM WEST



DOWNSTREAM EAST



LOOKING NORTH, OFF BRIDGE



LOOKING SOUTH