



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PM ISSUED / SHORED STRUCTURE
TEMP REPAIRS: ENCASED PILES

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ROBESON BRIDGE NUMBER 770414 INSPECTION CYCLE 2 YRS
ROUTE SR1323 ACROSS WATSONS POND M.P. 0

LOCATION 0.15 MI.E.JCT.SR1325

SUPERSTRUCTURE PRESTRESSED CONCRETE CORED SLAB

SUBSTRUCTURE E.BTS&BTS:PPC.CAPS/TIM.PILES;STL.CRUTCH BTS@BTS2&3

SPANS 1@14'3;2@14';1@14'3

LONGITUDE 79° 11' 22.43"

LATITUDE 34° 50' 2.93"

INSPECTION DATE 08/19/2014

PRESENT CONDITION FAIR

PRESENT POSTING N **NOT POSTED**

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING EAST (WATSON MILL ROAD)

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>No</u> DELINEATORS	
<u>No</u> NARROW BRIDGE	
<u>No</u> ONE LANE BRIDGE	
<u>No</u> LOW CLEARANCE	

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

Run Date: 11/18/2014

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770414		SUFFICIENCY RATING =		39.95	
(8) STRUCTURE NUMBER(FEDERAL)		000000001550414		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013230					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1					
(3) COUNTY CODE	155	(4) PLACE CODE	0				
(6) FEATURE INTERSECTED -	LITTLE RAFT SWAMP						
(7) FACILITY CARRIED	SR1323						
(9) LOCATION	0.15 M.I.E. OF JCT.SR1325						
(11) MILEPOINT		0					
(16) LAT	34° 50' 2.93"	(17) LONG	79° 11' 22.43"				
(98) BORDER BRIDGE STATE CODE		PCT SHARE					
(99) BORDER BRIDGE STRUCTURE NO							
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION			
(43) STRUCTURE TYPE MAIN:	Prestressed Concrete			(112) NBIS BRIDGE SYSTEM -		YES	
TYPE -	Slab	CODE	501	(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		4		(101) PARALLEL STRUCTURE -	No Parallel Structure	N	
(46) NUMBER OF APPROACH SPANS				(102) DIRECTION OF TRAFFIC -	2-way Traffic	2	
(107) DECK STRUCTURE TYPE -	2	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	
AGE AND SERVICE				CONDITION			
(27) YEAR BUILT		1954		(58) DECK		5	
(106) YEAR RECONSTRUCTED				(59) SUPERSTRUCTURE		5	
(42) TYPE OF SERVICE : ON -	Highway			(60) SUBSTRUCTURE		4	
UNDER -	Waterway	CODE	15	(61) CHANNEL & CHANNEL PROTECTION		7	
(28) LANES: ON STRUCTURE	2	UNDER STRUCTURE	0	(62) CULVERTS		N	
(29) AVERAGE DAILY TRAFFIC		70					
(30) YEAR OF ADT	1991	(109) TRUCK ADT PCT	%				
(19) BYPASS OR DETOUR LENGTH		3 MI					
GEOMETRIC DATA				LOAD RATING AND POSTING			
(48) LENGTH OF MAXIMUM SPAN		13 FT		(31) DESIGN LOAD	HS 15	3	
(49) STRUCTURE LENGTH		57 FT		(63) OPERATING RATING METHOD -	Load Factor	1	
(50) CURB OR SIDEWALK: LEFT	.4585 FT	RIGHT	.4585 FT	(64) OPERATING RATING -	HS-1	1	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24.083 FT		(65) INVENTORY RATING METHOD -	Load Factor	1	
(52) DECK WIDTH OUT TO OUT		25.5 FT		(66) INVENTORY RATING -	HS-1	1	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		(70) BRIDGE POSTING -	No Posting Required	5	
(33) BRIDGE MEDIAN -	No Median	CODE	0	(41) STRUCTURE OPEN, POSTED ,OR CLOSED		D	
(34) SKEW	0°	(35) STRUCTURE FLARED	0	DESCRIPTION -	Open Temporary Shoring		
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT					
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24.083 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				APPRAISAL			
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0	(67) STRUCTURAL EVALUATION		3	
(111) PIER PROTECTION -		CODE		(68) DECK GEOMETRY		6	
(39) NAVIGATION VERTICAL CLEARANCE		0		(69) UNDERCLEARANCES, VERTI & HORIZ		N	
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT		(71) WATERWAY ADEQUACY		7	
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT		(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	140	(115) YEAR FUTURE ADT	2025
				INSPECTIONS			
				(90) INSPECTION DATE		08/19/2014	
				(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			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 11/18/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770414	57	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1323	LITTLE RAFT SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.15 MI.E. OF JCT.SR1325		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	70 1991	LT 253 RT 253

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1954	BMU			HS 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		12 FT		3		FT

SUPERSTRUCTURE :	PRESTRESSED CONCRETE CORED SLAB
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SUBSTRUCTURE :	E.BTS&BTS:PPC.CAPS/TIM.PILES;STL.CRUTCH BTS@BTS2&3
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SPANS :	1@14'3";2@14';1@14'3
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BEAMS OR GIRDERS :	6 LINES OF 33" PRESTRESSED CONCRETE CORED SLAB SECTIONS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
PPC.C.S/2.75 AWS		25.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24.083 FT	25 FT	LT .4585 FT RT .4585 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		DATE
HS-1	HS-1	SLAB PC	SV TTST		07/14/1983

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. 770414 COUNTY ROBESON ROUTE SR1323 OVER WATSONS POND
 STRUCTURE TYPE PRESTRESSED CONCRETE CORED SLAB
 ROUTE ORIENTATION W - E SPANS 1@14'3;2@14';1@14'3

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

INSPECTION ITEM				ITEM 61			
DECK ITEMS			GRADES				
1. WEARING SURFACE			F	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	G	
					b. ALIGNMENT	G	
					c. SCOUR	G	
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	4	F	50. APPROACH ROADWAY CONDITION			F
	b. TIMBER			51. APPROACH SLABS			
	c. STEEL PLANK			52. PAINT SYSTEM			CODE
	d. OPEN GRID			53. UTILITIES			
3. RAILING	a. CONCRETE			54. RESPONSE TO LIVE LOAD			G
	b. TIMBER			55. ESTIMATED REMAINING LIFE			15
	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			YES
	b. MISC PREFAB			62. PRESENTLY POSTED			NO
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			12
	d. STANDARD JOINTS	2	F	64. TOTAL SNOOPER INSP. TIME (HRS)			
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			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	4	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				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)				a. WATERWAY ADAQUACY		7	
16. DRAINAGE SYSTEM (ON STRUCTURE)			F	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			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		P	LADDER			NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		G	BUCKET TRUCK			NO
	b. ABUT. & BENT COL'S BREASTWALLS			BOAT			NO
	c. ABUT. & INT. BENT PILES			OTHER			YES
	d. BACKWALLS, WING'S, RETAIN. WALLS						
	e. ABUT. & BENT FOOTINGS & SILLS						
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		G	SPECIAL INSPECTION REQUESTED FOR			
	b. PILES, BRACING, AND BULKHEADS		G				
38. FOUNDATION PILES TYPE MATERIAL				NOTE			
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)							
40. FENDER SYSTEMS				80. INSPECTED BY:	RD HARRIS		
41. DRIFT			F	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 R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
1	F	(ASPHALT WEARING SURFACE) THE ASPHALT WEARING SURFACE HAS LONGITUDINAL CRACKS ALONG SOME OF THE SLAB SECTIONS IN ALL SPANS. (PHOTOS)	
2a	F	THERE ARE TRANSVERSE CRACKS NOTED OVER THE JOINTS. (PHOTO) (CONC DECK) THERE ARE 4 SPANS OF PRECAST CONCRETE SLABS NOTED. SEE ITEM 10.	
3d	G	(STEEL RAILS) THERE ARE BULLET HOLES IN END TERMINAL AT RIGHT RAIL SOUTHWEST CORNER. (PHOTO)	
4	G	(CONC CURBS) THERE IS HAIRLINE MAP CRACKING IN LEFT CURB IN ALL SPANS. (PHOTO)	
6d	F	(STD JOINTS) THERE ARE SIGNS OF LEAKAGE ON CAPS.	
7	F	(DECK DEBRIS) THERE IS VEGETATION ALONG BOTH CURBS. (PHOTOS)	
10	F	(PPC SLABS) THERE ARE SOME LEAKAGE AT THE SLAB JOINTS.	
10A	NO	PRECAST SLAB 6 IN SPAN 1 HAS SURFACE SPALLING ALONG SLAB 5 CONNECTION 5' LONG X UP TO 1" WIDE X UP TO 1" DEEP. (PHOTO) (CURVED GIRDERS) NO CURVED GIRDERS.	
16	F	(DRAINAGE SYSTEM) ALL DRAINS ARE RESTRICTED BY VEGETATION. (PHOTOS)	

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		
35b	F	(TIMBER PILES) PILES 1 AND 4 AT BENT 1 ARE ENCASED, TEMPORARY REPAIRS. (PHOTO) PILE 3 AT END BENT 1 IS ENCASED, TEMPORARY REPAIR. (PHOTO) BENT 1 PILE 1 ENCASEMENT HAS A 1/16" VERTICAL CRACK ON NORTH FACE. (PHOTO) PILE 4 AT END BENT 1 IS DECAYED 12" HIGH X 6" WIDE X 1 1/2" DEEP. (PHOTO) PILE 5 AT END BENT 1 IS DELAMINATED AND DECAYED WITH 1/2" SHELL WITH 2" DEEP DECAY X160 DEGREE CIRCUMFERENCE . (PHOTO) ALSO SEE SKETCH. PILE 4 AT END BENT 2 IS ENCASED, TEMPORARY REPAIR. (PHOTO) PILE 1 AT END BENT 2 SOUTH FACE HAS A 3/8" VERTICAL CRACK 2' HIGH X 1 1/2" D. (PHOTO)	
35c	P	THERE ARE STEEL CRUTCH BENTS LOCATED ON BOTH SIDES OF BENTS 2, AND 3. (PHOTOS) ALSO SEE SKETCHES. (TIMBER BULKHEAD AND WINGWALLS) THERE IS A DECAYED BULKHEAD BOARD AT END BENT 2 PILE 3 WITH FILL LEAKAGE. (PHOTO) PM ISSUED. THERE IS A DECAYED EXTERIOR BULKHEAD BOARD AT NORTHWEST CORNER. (PHOTO) THERE IS A DECAYED BULKHEAD BOARD AT SOUTHWEST CORNER. (PHOTO) THERE ARE DECAYED WINGWALL BOARDS AT SOUTHWEST CORNER. (PHOTO) THERE ARE DECAYED AND MISSING WINGWALL BOARDS WITH EXPOSED FILL AT SOUTHEAST CORNER. (PHOTO) THE NORTHEAST CORNER TURNPILE IS DECAYED 16" HIGH X FULL CIRCUMFERENCE X 4" DEEP, WITH 5" CORE REMAINING. (PHOTO) THERE IS A DAMAGED WINGWALL PILE AT NORTHEAST CORNER. (PHOTO)	
37a	G	THERE ARE DECAYED WINGWALL BOARDS AT NORTHEAST CORNER. (PHOTO) (STEEL CAPS) THERE ARE STEEL CRUTCH BENTS AT BENTS 2, AND 3. (PHOTO)	
37b	G	(STEEL PILES) THERE ARE STEEL CRUTCH BENTS AT BENTS 2, AND 3. (PHOTO)	

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		
41	F	(DRIFT) THERE IS DRIFT 8" DIAMETER X 20' LONG TREE NORTH OF BENT 2. (PHOTO) THERE IS DRIFT NORTH OF BENT 3. (PHOTO)	
45c	G	THERE IS DRIFT IN SPAN 2 AT BENT 1 PILE 1. (PHOTO) (SCOUR) SCOUR POA: IF MORE THAN 4' SCOUR AT BENTS FROM 2008-09 REPORT, CONTACT HYDRAULIC UNIT. SEE SCOUR REPORT DATED 6/24/2010.	
50	F	(APPROACH ROADWAYS) THERE IS A 1/4" TRANSVERSE CRACK AND UP TO 1/2" SETTLEMENT IN THE WEST APPROACH ASPHALT WEARING SURFACE. (PHOTO) THE WEST APPROACH ASPHALT WEARING SURFACE IS SETTLED 2" AT SOUTHWEST CORNER. (PHOTO)	
61	YES	THERE IS A 3/16" TRANSVERSE CRACK IN EAST APPROACH OVER END BENT 2. (PHOTO) (PM ISSUED) DECAYED END BENT 2 BULKHEAD WITH FILL LEAKAGE.	
73f	YES	(OTHER EQUIPMENT) BOOTS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770414

County ROBESON

Date: 08/19/2014

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 & Blkhds	SF	3	THERE IS A DECAYED BULKHEAD BOARD AT END BENT 2 PILE 3 WITH FILL LEAKAGE	
2816	Asphalt Surface Repair or Replacement	SY	1	THERE IS A 3/16" TRANSVERSE CRACK IN EAST APPROACH OVER END BENT 2	
2816	Asphalt Surface Repair or Replacement	SY	2	THERE ARE LONGITUDINAL CRACKS OVER SLABS IN SPANS 2 AND 3	
2816	Asphalt Surface Repair or Replacement	SY	1	THERE IS A 1/4" TRANSVERSE CRACK AND UP TO 1/2" SETTLEMENT IN THE WEST APPROACH ASPHALT WEARING SURFACE	
3344	Repair / Replace Timber Substructure Components	LF	5	PILE 5 AT END BENT 1 IS DELAMINATED AND DECAYED WITH 1/2" SHELL WITH 2" DEEP DECAY X160 DEGREE CIRCUMFERENCE SEE SKETCH	
3346	Repair / Maintain Timber Wings & Blkhds	SF	2	THERE IS A DECAYED EXTERIOR BULKHEAD BOARD AT NORTHWEST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	2	THERE IS A DECAYED BULKHEAD BOARD AT SOUTHWEST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	3	THERE ARE DECAYED WINGWALL BOARDS AT NORTHEAST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	7	THERE ARE DECAYED AND MISSING WINGWALL BOARDS WITH EXPOSED FILL AT SOUTHEAST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	5	THERE IS A DAMAGED WINGWALL PILE AT NORTHEAST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	5	THE NORTHEAST CORNER TURNPILE IS DECAYED 16" HIGH X FULL CIRCUMFERENCE X 4" DEEP, WITH 5" CORE REMAINING	
3346	Repair / Maintain Timber Wings & Blkhds	SF	3	THERE ARE DECAYED WINGWALL BOARDS AT SOUTHWEST CORNER	
3366	Drift and Debris Removal	HR	3	THERE IS DRIFT 8" DIAMETER X 20' LONG TREE NORTH OF BENT 2	
3366	Drift and Debris Removal	HR	2	THERE IS DRIFT NORTH OF BENT 3	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770414

County ROBESON

Date: 08/19/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3376	Clean/Wash Bridge Decks	SF	53	THERE IS VEGETATION ALONG LEFT CURB	
3376	Clean/Wash Bridge Decks	SF	53	THERE IS VEGETATION ALONG RIGHT CURB	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770414 County ROBESON

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	3 SF
Location:		
Abutment Substructure	Bent/Span No. 3	BULKHEAD BOARDS
Priority Level	Status	
Priority Maintenance	SIA Updates in Process	
Submitted Date:	Submitted By:	Assisted By:
08/20/2014	R.D.HEATH	R.L.KISNER
Details		
THERE IS A DECAYED BULKHEAD BOARD AT END BENT 2 PILE 3 WITH FILL LEAKAGE		



THERE IS A DECAYED EXTERIOR BULKHEAD BOARD AT NORTHWEST CORNER



PILES 1 AND 4 AT BENT 1 ARE ENCASED, TEMPORARY REPAIRS



PILE 3 AT END BENT 1 IS ENCASED, TEMPORARY REPAIR



BENT 1 PILE 1 ENCASEMENT HAS A 1/16" VERTICAL CRACK ON NORTH FACE



THERE IS DRIFT 8" DIAMETER X 20' LONG TREE NORTH OF BENT 2



THERE IS DRIFT NORTH OF BENT 3



THERE IS DRIFT IN SPAN 2 AT BENT 1 PILE 1



PILE 4 AT END BENT 1 IS DECAYED 12" HIGH X 6" WIDE X 1 1/2" DEEP



PILE 5 AT END BENT 1 IS DELAMINATED AND DECAYED WITH 1/2" SHELL WITH 2" DEEP DECAY X160 DEGREE CIRCUMFERENCE SEE SKETCH



THERE IS A DECAYED BULKHEAD BOARD AT SOUTHWEST CORNER



THERE ARE DECAYED WINGWALL BOARDS AT SOUTHWEST CORNER



PRECAST SLAB 6 IN SPAN 1 HAS SURFACE SPALLING ALONG SLAB 5 CONNECTION 5' LONG X UP TO 1" WIDE X UP TO 1" DEEP



THERE IS A 1/4" TRANSVERSE CRACK AND UP TO 1/2" SETTLEMENT IN THE WEST APPROACH ASPHALT WEARING SURFACE



THERE IS VEGETATION ALONG LEFT CURB



THERE IS VEGETATION ALONG RIGHT CURB



ALL DRAINS ARE BLOCKED BY VEGETATION ALONG RIGHT CURB



ALL LEFT CURB DRAINS ARE BLOCKED BY VEGETATION



THERE ARE LONGITUDINAL CRACKS IN SPAN 1 OVER PRECAST SLABS



THE WEST APPROACH ASPHALT WEARING SURFACE IS SETTLED 2" AT SOUTHWEST CORNER



THERE ARE LONGITUDINAL CRACKS OVER SLABS IN SPANS 2 AND 3



THERE ARE 1/8" TRANSVERSE CRACKS OVER BENT JOINTS



THERE ARE TWO BULLET HOLES IN RIGHT RAIL END AT SOUTHWEST CORNER



THERE IS HAIRLINE MAP CRACKING IN LEFT CURB IN ALL SPANS



THERE IS A 3/16" TRANSVERSE CRACK IN EAST APPROACH OVER END BENT 2



THERE ARE DECAYED AND MISSING WINGWALL BOARDS WITH EXPOSED FILL AT SOUTHEAST CORNER



BENT 3 SPAN 4 SIDE STEEL CRUTCH BENT, SIMILAR IN SPAN 3 SIDE



PILE 4 AT END BENT 2 IS ENCASED, TEMPORARY REPAIR



THERE IS A DECAYED BULKHEAD BOARD AT END BENT 2 PILE 3 WITH FILL LEAKAGE PM ISSUED



PILE 1 AT END BENT 2 SOUTH FACE HAS A 3/8" VERTICAL CRACK 2' HIGH X 1 1/2" D



THE NORTHEAST CORNER TURNPILE IS DECAYED 16" HIGH X FULL CIRCUMFERENCE X 4" DEEP, WITH 5" CORE REMAINING



THERE IS A DAMAGED WINGWALL PILE AT NORTHEAST CORNER



THERE ARE DECAYED WINGWALL BOARDS AT NORTHEAST CORNER

Structure Data Worksheet

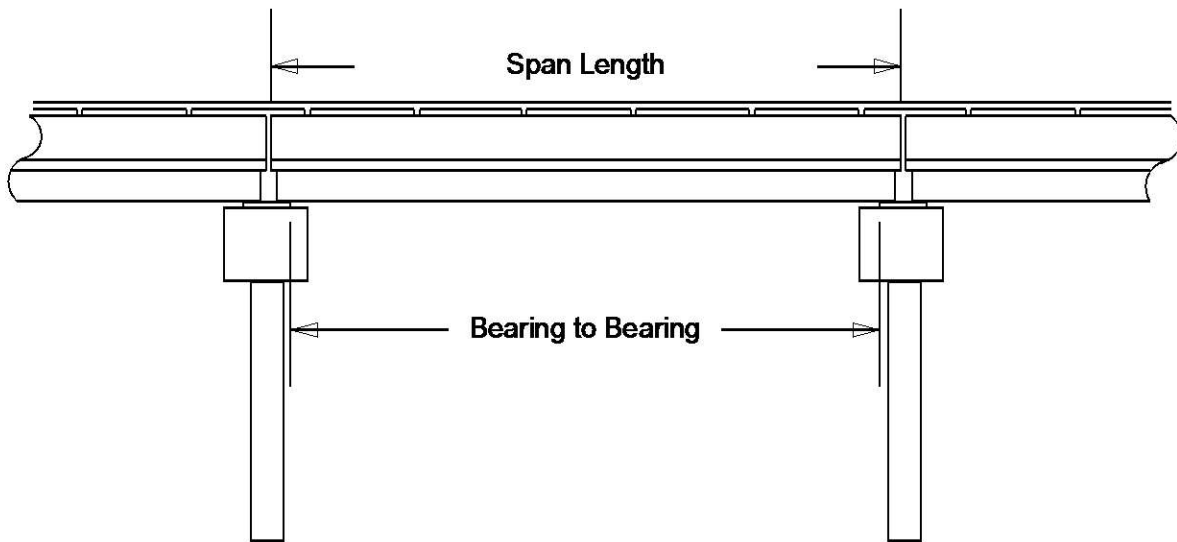
Spans

County: ROBESON

Structure No: 770414

Date: 08/19/2014

Inspected By: RDH



Span No	Span Length	Bearing to Bearing	Comments
1	14.25 FT.	13.167 FT.	NBIS 53.333 FT.
2	14.0 FT.	13.167 FT.	
3	14.0 FT.	13.167 FT.	
4	14.25 FT.	13.167	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770414 County: ROBESON Date: 08/19/2014 By: RDH

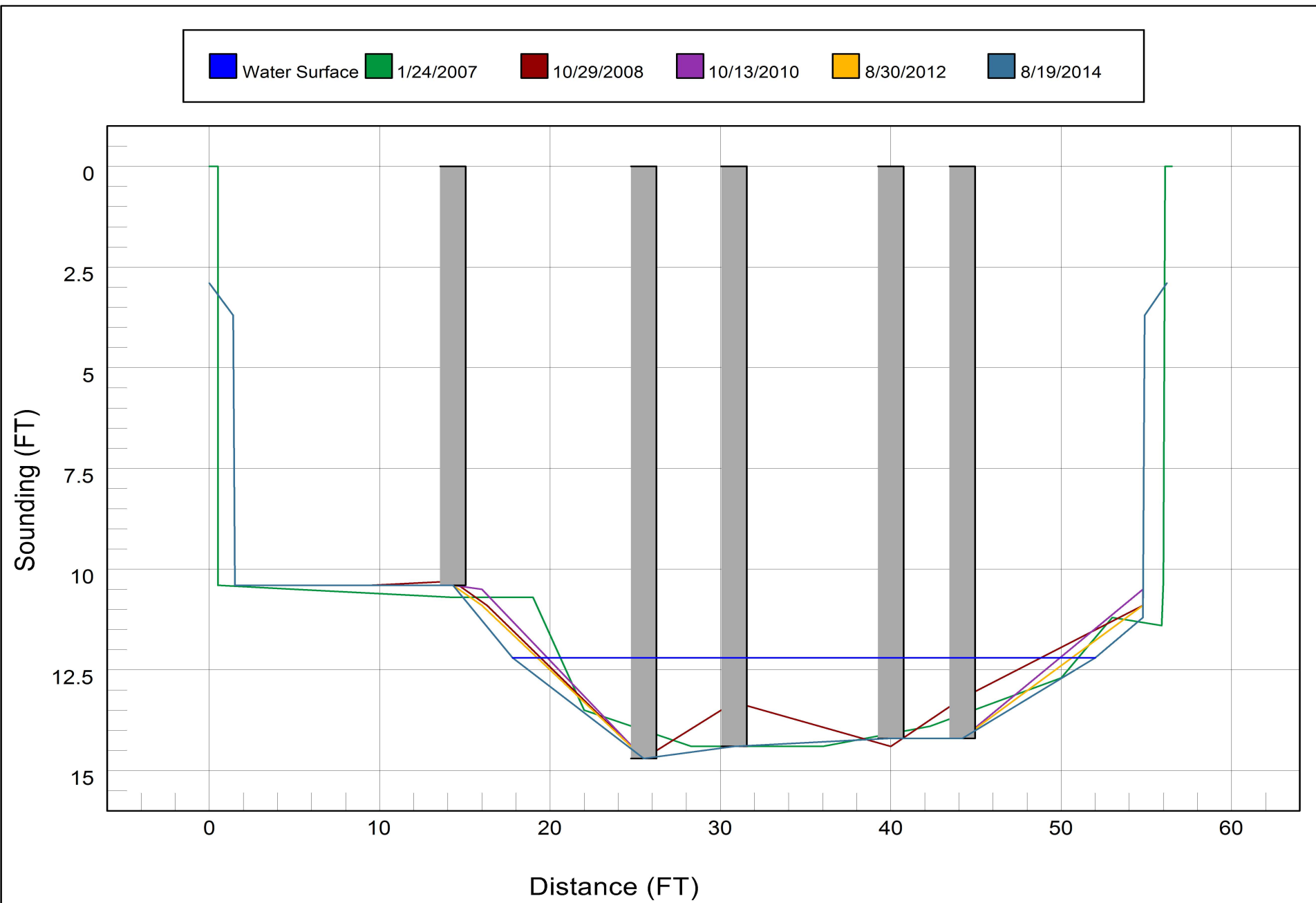
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 6 Location of Highwater Mark: ON PILES

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.9	TOP OF BULKHEAD			
1.4	3.7	Top of Cap			
1.5	10.4	GROUND AT CAP	1.5	10.2	GROUND AT CAP
9.5	10.4				
14.3	10.4	BENT 1	14.3	11.8	BENT 1
17.8	12.2	WSWE (SOUTH)			
25.5	14.7	BENT 2 SPAN 2 CRUTCH	25.5	12.6	BENT 2 SPAN 2 CRUTCH
30.8	14.4	BENT 2 SPAN 3 CRUTCH	30.8	14.5	BENT 2 SPAN 3 CRUTCH
40	14.2	BENT 3 SPAN 3 CRUTCH	40	14.5	BENT 3 SPAN 3 CRUTCH
44.2	14.2	BENT 3 SPAN 4 CRUTCH	44.2	14.5	BENT 3 SPAN 4 CRUTCH
52	12.2	WSWE			
54.8	11.2	GROUND AT CAP	54.8	13	BED AT CAP
54.9	3.7	Top of Cap			
56.2	2.9	TOP OF BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



SR-1323 (WATSON MILL ROAD)

Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

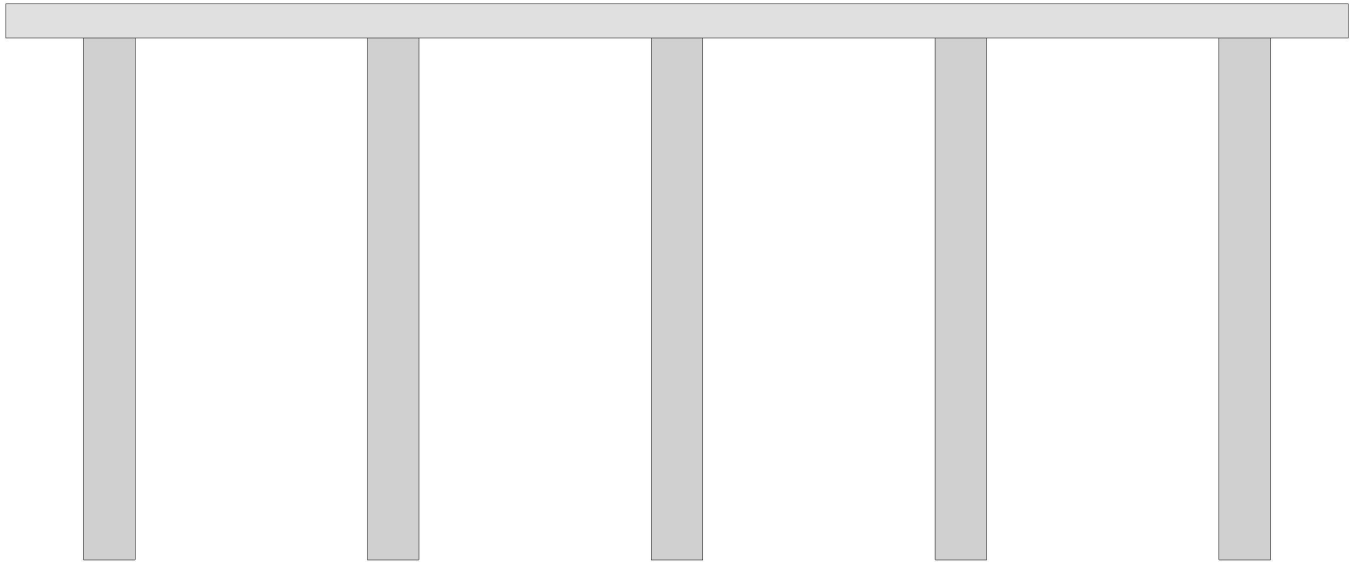
MEASUREMENTS VERIFIED BY RLK 10/13/10

MEASUREMENTS VERIFIED BY RLK 8/30/12

MEASUREMENTS VERIFIED BY RLK 8/19/14

Title APPROACH ROADWAY		Description LOOKING EAST	
Bridge No: 770414	Drawn By: RLB	Date: 01/23/2007	File Name: S0274002456

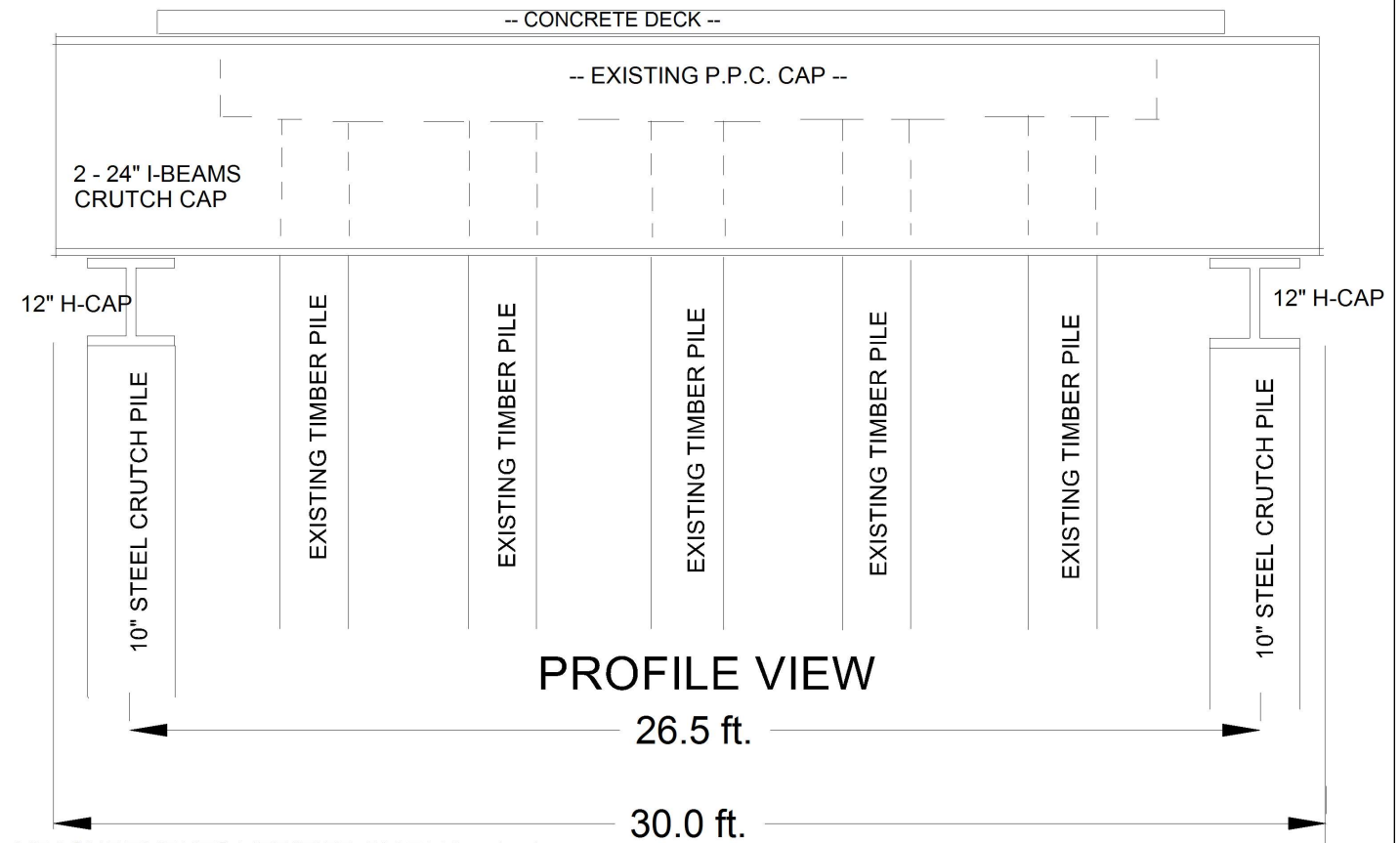
Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete							
Length 26 ft.	Width 1.5 ft.	Height 0.667 ft.	Left Overhang 2 ft.	Right Overhang 2 ft.	Left Beam to End of Cap.			Right Beam to End of Cap.		
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	5.5 ft.	1.0 ft.			Vertical	Yes	No	No	No
2	Timber	5.5 ft.	1.0 ft.			Vertical	Yes	No	No	No
3	Timber	5.5 ft.	1.0 ft.			Vertical	Yes	No	No	No
4	Timber	5.5 ft.	1.0 ft.			Vertical	Yes	No	No	No
5	Timber		1.0 ft.			Vertical	Yes	No	No	No
NOTE: ENCASED PILES, P 3 AT EBT 1, PILES 1 AND 4 AT BT 1, P 4 AT EBT 2										
END BENTS 1 & 2 AND INTERIOR BENT 1										
Bent/Abutment #: 1			Similar Bents: BOTH END BENTS							

Title		Description	
SUBSTRUCTURE 1		BENT 1	
Bridge No: 770414	Drawn By: RLK	Date: 8/19/2014	File Name: S0274002457

Bridge Inspection Field Sketch

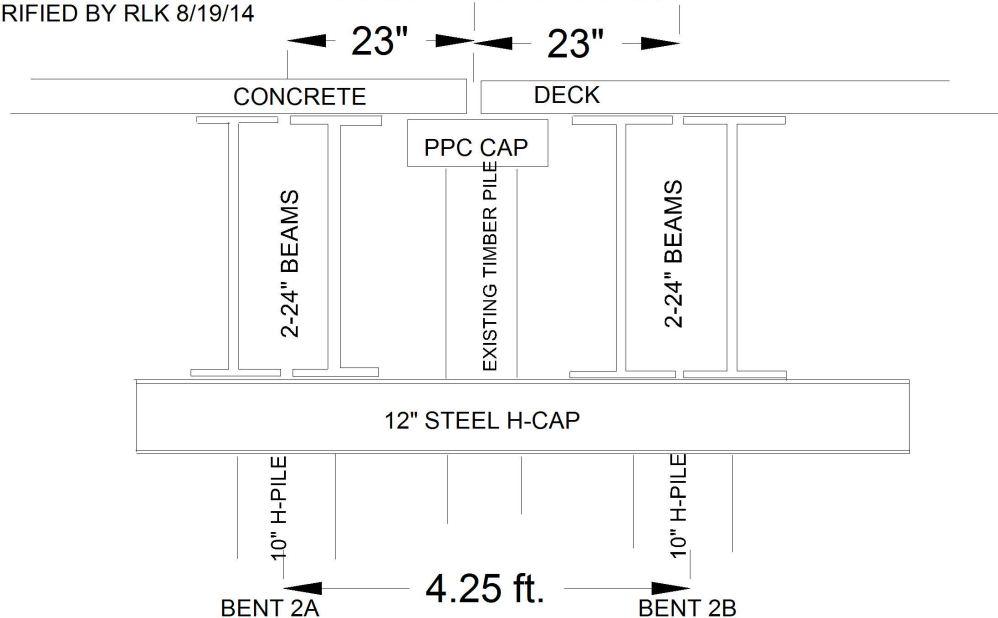


MEASUREMENTS VERIFIED BY RLK 10/13/10

MEASUREMENTS VERIFIED BY RLK 8/30/12

MEASUREMENTS VERIFIED BY RLK 8/19/14

RIGHT END VIEW



Title

SUBSTRUCTURE 2

Description

INTERIOR BENT 2 CRUTCH BENT

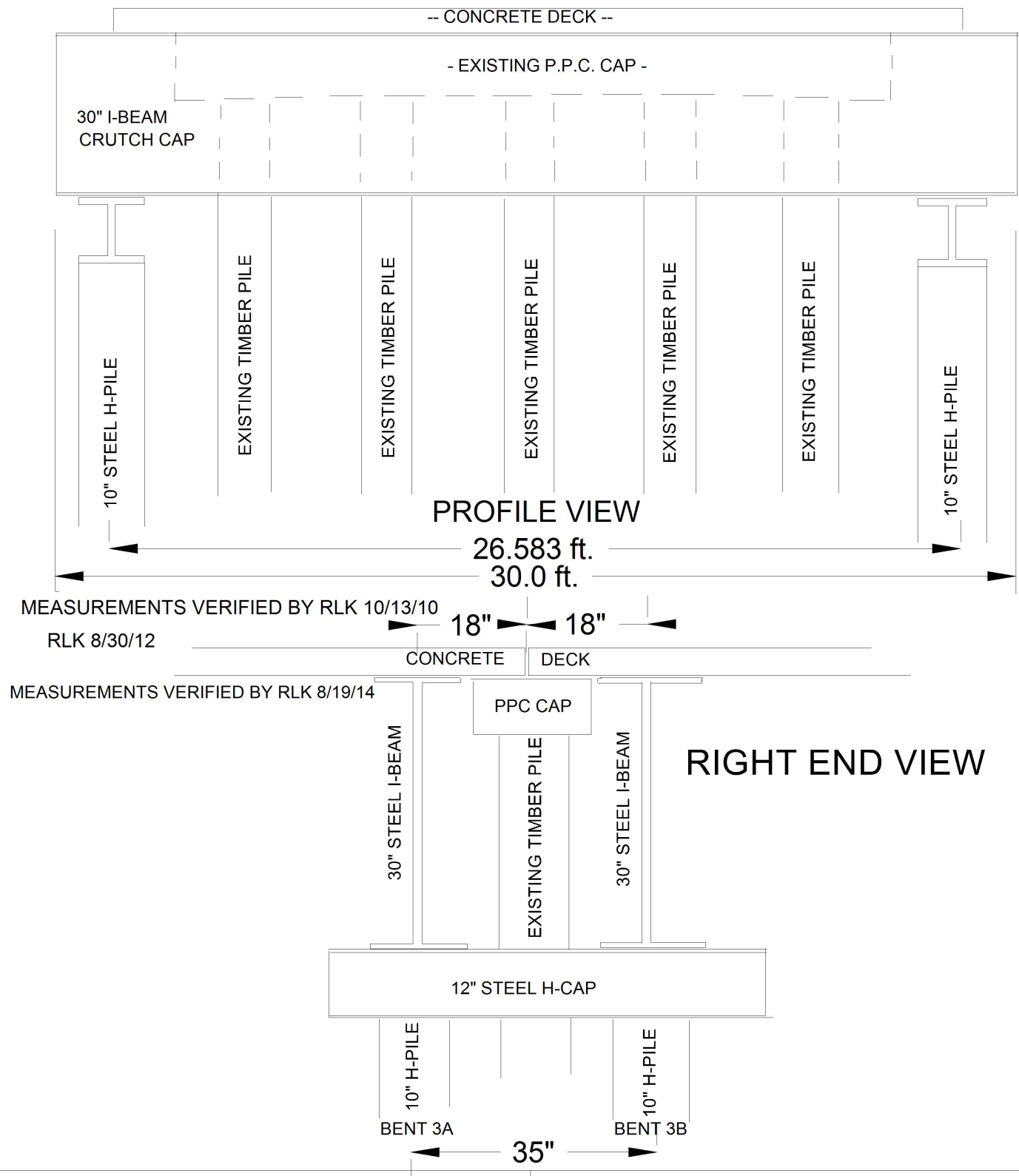
Bridge No: 770414

Drawn By: RLB

Date: 01/23/2007

File Name: S0274002458

Bridge Inspection Field Sketch



Title SUBSTRUCTURE 3		Description BENT 3 CRUTCH BENT SUBSTRUCTUR E	
Bridge No: 770414	Drawn By: RLB	Date: 01/23/2007	File Name: S0274002459

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.5ft	Between Rails	25ft
Clear Roadway	24.083ft	Wearing Surface	0.23ft
Median Width		Median Height	
Curb Height		Left	0.833ft
Sidewalk Width		Right	0.833ft
Clear Roadway (Rail to Median)		Left	
Guardrail Width		Right	
Top of Rail to Deck/Wearing Surface		Left	0.917ft
Bridge Rail		Right	0.917ft
		Left	2.667ft
		Right	2.667ft
		Left	Type 32
		Right	Type 32

PRECAST CONCRETE SLABS

Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	0.667	Left Overhang	
Top of Rail to Bottom of Beam	3.563	Right Overhang	

Number of Slabs	Slab Width	Slab Height	Comments
2	2.75ft	0.667ft	EXTERIOR SLAB SECTIONS
4	5.0ft	0.667ft	INTERIOR SLAB SECTIONS

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

Bridge No: 770414

Drawn By: RLK

Date: 8/19/2014

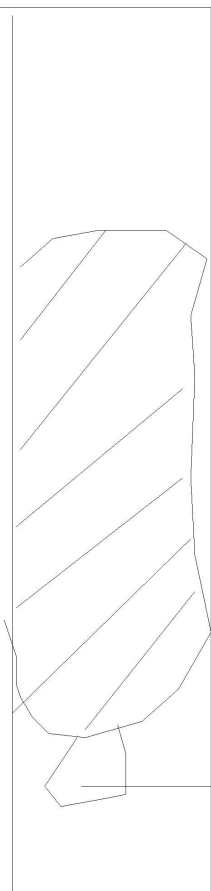
File Name: S0274002460

Bridge Inspection Field Sketch

EBT2 CAP

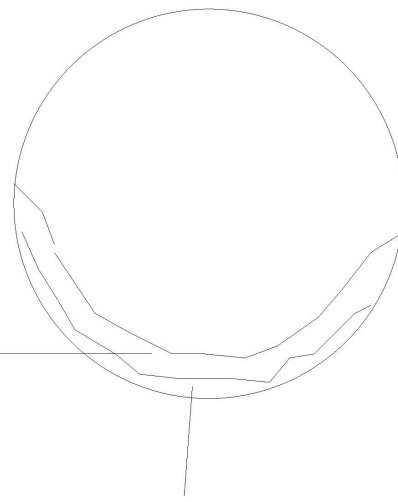
TOP VIEW

12" TIMBER PILE



30" HIGH

2" DEEP DECAY



1/2" SHELL

3" DIAMETER X 2" DEEP HOLE

DECAY AND DELAMINATION IS 160 DEGREE WIDE

PILE 5

Title

PILE 5 AT EBT 1

Description

PILE 5 DECAY

Bridge No: 770414

Drawn By: RLK

Date: 8/19/2014

File Name: S0098001650



LOOKING EAST (WATSON MILL ROAD)



SOUTH PROFILE



NORTH PROFILE



BENT 1



NORTH END OF BENT 1



END BENT 1



BENT 2, WITH STEEL CRUTCH BENT SPAN 2 SIDE, SIMILAR ON SPAN 3 SIDE, SHORED STRUCTURE



NORTH END OF BENT 2, BENT 3 SIMILAR



SPAN 1 UNDERSIDE, ALL SPANS ARE SIMILAR



SPAN 2 UNDERSIDE, ALL SPANS ARE SIMILAR



UPSTREAM NORTH, THRU SPAN 2



DOWNSTREAM SOUTH, THRU SPAN 2



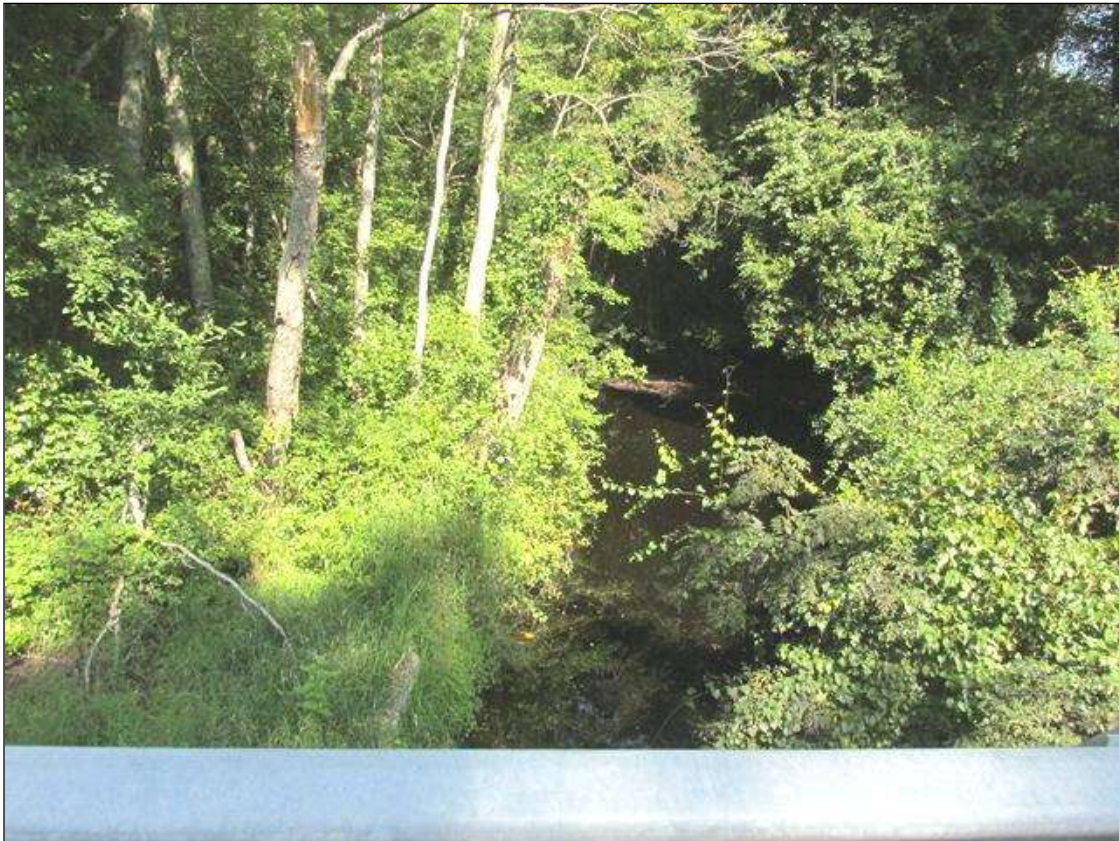
DOWNSTREAM SOUTH



LOOKING EAST, OFF BRIDGE



LOOKING WEST, OFF BRIDGE



UPSTREAM NORTH

UPSTREAM NORTH



LOOKING WEST



END BENT 2