



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRS: ENCASED PILES

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY COLUMBUS BRIDGE NUMBER 230167 INSPECTION CYCLE 2 YRS
ROUTE SR1379 ACROSS GAPWAY SWAMP M.P. 0

LOCATION 0.7 MI W JCT NC904

SUPERSTRUCTURE PPC CHANNELS (BMD-13&13-1)

SUBSTRUCTURE E.BTS&INT.BTS:PPC CAPS/TIMBER PILES @ 5'9 CTS.

SPANS 1@30'4;3@30';1@30'9

LONGITUDE 79° 0' 17.07"

LATITUDE 34° 16' 11.50"

INSPECTION DATE 07/22/2013

PRESENT CONDITION FAIR

PRESENT POSTING Y SV 26; TTST 30

PROPOSED POSTING

OTHER SIGNS PRESENT 3 DELINEATORS



LOOKING EAST (HINSONS CROSSROAD)

Fracture Critical	No
Temporary Shoring	No
Scour Critical	No
Scour POA	No

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
No	WEIGHT LIMIT	
Yes	DELINEATORS	1
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

Run Date: 08/01/2013

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	230167		SUFFICIENCY RATING =			34.18
(8) STRUCTURE NUMBER(FEDERAL)		000000000470167		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013790					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3					
(3) COUNTY CODE	47	(4) PLACE CODE	0	CLASSIFICATION		CODE	
(6) FEATURE INTERSECTED -	GAPWAY SWAMP			(112)NBIS BRIDGE SYSTEM -		YES	
(7) FACILITY CARRIED	SR1379			(104)HIGHWAY SYSTEM	Is not on NHS		0
(9) LOCATION	0.7 MI W JCT NC904			(26) FUNCTIONAL CLASS -	Local		09
(11)MILEPOINT		0		(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(16)LAT	34° 16' 11.50"	(17)LONG	79° 0' 17.07"	(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(99)BORDER BRIDGE STRUCTURE NO				(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions		T
				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network		0
				(20) TOLL	On Free Road		3
				(31) MAINTAIN -	State Highway Agency		01
				(22) OWNER -	State Highway Agency		01
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible		5
STRUCTURE TYPE AND MATERIAL							
(43) STRUCTURE TYPE MAIN:	Prestressed Concrete						
TYPE -	Channel Beam	CODE	522				
(44) STRUCTURE TYPE APPR :							
TYPE -		CODE	000	CONDITION			
(45) NUMBER OF SPANS IN MAIN UNIT			5	(58) DECK			5
(46) NUMBER OF APPROACH SPANS				(59) SUPERSTRUCTURE			5
(107)DECK STRUCTURE TYPE -	1	CODE		(60) SUBSTRUCTURE			4
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(61) CHANNEL & CHANNEL PROTECTION			7
(A) TYPE OF WEARING SURFACE -		CODE		(62) CULVERTS			N
(B) TYPE OF MEMBRANE	-	CODE		LOAD RATING AND POSTING			
(C) TYPE OF DECK PROTECTION -		CODE		(31) DESIGN LOAD	H 10		1
				(63) OPERATING RATING METHOD -	Allowable Stress		2
				(64) OPERATING RATING -	HS-1		1
				(65) INVENTORY RATING METHOD -	Allowable Stress		2
				(66) INVENTORY RATING -	HS-1		1
				(70) BRIDGE POSTING -	Posting Required		4
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1967	(67) STRUCTURAL EVALUATION			3
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY			5
(42) TYPE OF SERVICE : ON -	Highway			(69) UNDERCLEARANCES,VERTI & HORIZ			N
UNDER -	Waterway	CODE	15	(71) WATERWAY ADEQUACY			7
(28) LANES: ON STRUCTURE	2	UNDER STRUCTURE	0	(72) APPROACH ROADWAY ALIGNMENT			8
(29) AVERAGE DAILY TRAFFIC			200	(36) TRAFFIC SAFETY FEATURES			0000
(30) YEAR OF ADT	2012	(109) TRUCK ADT PCT	6%	(113)SCOUR CRITICAL BRIDGES			U
(19) BYPASS OR DETOUR LENGTH			10 MI	PROPOSED IMPROVEMENTS			
GEOMETRIC DATA				(75) TYPE OF WORK -		CODE	
(48) LENGTH OF MAXIMUM SPAN			29 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH			151 FT	(94) BRIDGE IMPROVEMENT COST			
(50)CURB OR SIDEWALK: LEFT	.5 FT	RIGHT	.5 FT	(95) ROADWAY IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			24.33 FT	(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT			25.833 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			19 FT	(114)FUTURE ADT	400	(115) YEAR FUTURE ADT	2025
(33) BRIDGE MEDIAN -	No Median	CODE	0	INSPECTIONS			
(34) SKEW	0°	(35) STRUCTURE FLARED	0	(90) INSPECTION DATE			07/22/2013
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			24.33 FT	A) FRACTURE CRIT DETAIL -	NO	A)	
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	B) UNDERWATER INSP -	NO	B)	
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT	C) OTHER SPECIAL INSP	NO	C)	
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT	SCOUR			
(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: 08/01/2013

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :
COLUMBUS	6	3	230167	151 FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1379	GAPWAY SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.7 MI W JCT NC904		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	200 2012	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1967	BMU	5.4351		H 10

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	UNDER :
	DBM	6B.202411	TAN.	90	ON 2	0

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT 14 FT		2 FT

SUPERSTRUCTURE : PPC CHANNELS (BMD-13&13-1)

SUBSTRUCTURE : E.BTS&INT.BTS:PPC CAPS/TIMBER PILES @ 5'9 CTS.

SPANS : 1@30'4;3@30';1@30'9

BEAMS OR GIRDERS : 10 PPC CHANNEL SECTIONS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
PPCCH/2 AWS		25.833 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24.33 FT	25.33 FT	LT .5 FT RT .5 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	Chan 13-30B,Pile	SV 26	30	09/18/2009

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. 230167 COUNTY COLUMBUS ROUTE SR1379 OVER GAPWAY SWAMP
 STRUCTURE TYPE PPC CHANNELS (BMD-13&13-1)
 ROUTE ORIENTATION W - E SPANS 1@30'4;3@30';1@30'9

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	5	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			5
	c. ALUMINUM						
	d. STEEL		F				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			F				
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED			YES
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			YES
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			8
	d. STANDARD JOINTS	4	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	5	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	7	
13. END DIAP'S, CURTAIN WALLS, & CONN'S			G				
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			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		G	LADDER			NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		F	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			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:	RDH		
41. DRIFT			F	81. REVIEWED BY:			

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

BRIDGE: **230167** County **Columbus** DATE: **4/18/2013**

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT
THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE
TO KEEP THE BRIDGE OPEN :

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	4	TSE 4/18/13
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

COMMENTS

Some piles are encased with concrete.

Temporary Repairs

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 UP TO 1/4" LONGITUDINAL CRACKS AT CENTERLINE IN ALL SPANS WITH UP TO 2" DEEP RAVELING AREAS IN SPANS 2 AND 4 UP TO 4' LONG X 4" WIDE. (PHOTOS) THERE ARE 1/16" LONGITUDINAL CRACKS IN SPAN 1 WEST BOUND LANE ASPHALT WEARING SURFACE. (PHOTO) THERE IS A 1/4" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1. THIS IS SIMILAR OVER ALL JOINTS. (PHOTO) THE ASPHALT WEARING SURFACE IS SPALLING OVER CHANNELS IN SPAN 2 WEST BOUND LANE. (PHOTO) THE ASPHALT WEARING SURFACE IS CRACKED OVER BENT 2 JOINT. (PHOTO) THE ASPHALT WEARING SURFACE IS SPALLING AT CENTERLINE IN SPAN 4. (PHOTO)	
2a	F	(CONCRETE DECK) SEE ITEM 10.	
3d	F	(STEEL RAILS) THE LEFT RAIL PAINT PEELING IN ALL SPANS. THIS IS SIMILAR ON RIGHT RAIL. (PHOTO) THERE ARE SIGNS OF MILDEW ON BOTH RAILS.	
4	F	(CURBS) THE LEFT CURB IN SPAN 2 AT BENT 1 HAS A 1/8" LONGITUDINAL CRACK WITH DELAMINATION. (PHOTO) THERE ARE HAIRLINE RANDOM CRACKS THROUGHOUT BOTH CURBS.	
6d	F	(STANDARD JOINTS) THE ASPHALT WEARING SURFACE IS CRACKED UP TO 1/4" OVER ALL JOINTS. (PHOTO)	
7	F	(DECK DEBRIS) THERE IS SCATTERED VEGETATION ALONG BOTH CURBS. (PHOTOS)	
10	F	(PPC CHANNELS) CHANNEL 10 EXTERIOR RIGHT LEG IS SURFACE SPALLED AT BENT 1, SPAN 1. (PHOTO) THERE ARE THREE SURFACE SPALLS WITH EXPOSED CABLE IN SPAN 2 CHANNEL 1. (PHOTO) CHANNEL 3 IN SPAN 3 RIGHT LEG IS SPALLED 14" LONG X 2" HIGH WITH EXPOSED CABLE AT MID SPAN. (PHOTO) SIMILAR CHANNEL REPAIRS IN SPAN 5. (PHOTO) CHANNEL 9 IN SPAN 5 HAS A 1/8" X 3' LONG CRACK IN LEFT LEG 3' FROM BENT 4. (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		
10A	NO	(CURVED GIRDERS) NO CURVED GIRDERS.	
15	F	(BEARING ASSEMBLIES) THE BEARING PLATES AT BENT 1 ARE RUSTED AND PITTING UP TO 1/8". ALL BEARINGS ARE SIMILAR. (PHOTO)	
16	F	(DRAINAGE SYSTEM) THERE IS A BLOCKED DECK DRAIN ALONG RIGHT CURB IN SPAN 5. (PHOTO)	
35b	F	(TIMBER PILES) PILE 1 AT END BENT 1 IS ENCASED. (PHOTO) THERE IS A DECAYED TIMBER CROSSBRACING AT BENT 1 PILE 1. (PHOTO) THERE IS DECAYED TIMBER CROSSBRACING AT BENT 1 SPAN 2 AT PILE 5. (PHOTO) THERE IS DECAYED TIMBER CROSSBRACING AT BENT 4 BETWEEN PILES 1 AND 2. (PHOTO) PILES 3 AND 4 AT BENT 2 AND PILE 2 AT BENT 3 ARE ENCASED. (PHOTOS) PILES 4 AND 5 ARE ENCASED AT BENT 4. (PHOTO) PILE 4 AT BENT 4 IS DECAYED ABOVE ENCASEMENT 12" HIGH X 1/2 CIRCUMFERENCE WITH 1" SHEEL AND 4" DEEP DECAY. (SEE SKETCH) PILE 1 AT BENT 4, SPAN 5 FACE IS SURFACE DECAYED AT GROUND LINE. (PHOTO)	
36a	F	(PPC CAPS) THERE ARE EXPOSED CABLE ENDS AT SOUTH END OF BENT 1. ALL CAP ENDS ARE SIMILAR. (PHOTO) THERE ARE STAINS ON CAPS DUE TO JOINT LEAKAGE.	
41	F	(DRIFT) THERE IS DRIFT IN SPAN 3 AT BENT 3. (PHOTO)	
50	F	(APPROACH ROADWAY) THE WEST APPROACH ASPHALT WEARING SURFACE CRACKS ARE PATCHED , SETTLED 1" IN BOTH LANES. (PHOTO) EAST APPROACH ASPHALT WEARING SURFACE IS SETTLED UP TO 1". (PHOTO)	
60	YES	(SIGN NOTICE ISSUED) 1 DELINEATOR NOT IN PLACE.	
62	YES	(PRESENTLY POSTED) SV - 26; TTST - 30	

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		
73f	YES	(OTHER EQUIPMENT) BOOTS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 230167

County COLUMBUS

Date: 07/22/2013

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	ASPHALT WEARING SURFACE SPALLING OVER CHANNELS IN SPAN 2 WEST BOUND LANE	
2816	Asphalt Surface Repair or Replacement	SY	2	EAST APPROACH ASPHALT WEARING SURFACE IS SETTLED UP TO 1"	
2816	Asphalt Surface Repair or Replacement	SY	2	WEST APPROACH ASPHALT WEARING SURFACE IS PATCHED , SETTLED 1" IN BOTH LANES	
2816	Asphalt Surface Repair or Replacement	SY	3	1/4" LONGITUDINAL CRACK AT CENTERLINE UP TO 2" DEEP IN ALL SPANS	
2816	Asphalt Surface Repair or Replacement	SY	4	1/4" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1, SIMILAR OVER ALL JOINTS	
2910	Manual Brush and Tree Control	LF	10	VEGETATION OVER RAIL AT NORTHWEST CORNER	
3306	Maintain Concrete Superstructure Components	SF	1	CHANNEL 10 EXTERIOR RIGHT LEG SURFACE SPALLED AT BENT 1, SPAN 1	
3306	Maintain Concrete Superstructure Components	SF	2	CHANNEL 3 IN SPAN 3 RIGHT LEG SPALLED 14" LONG X 2" HIGH WITH EXPOSED REBAR AT MID SPAN	
3306	Maintain Concrete Superstructure Components	SF	3	CHANNEL 9 IN SPAN 5 HAS A 1/8" X 3' LONG CRACK IN LEFT LEG 3' FROM BENT 4	
3306	Maintain Concrete Superstructure Components	SF	2	THREE SURFACE SPALLS WITH EXPOSED REBAR IN SPAN 2 CHANNEL 1	
3344	Repair / Replace Timber Substructure Components	LF	10	BENT 2 TIMBER CROSSBRACING IS DECAYED AT PILE 4	
3344	Repair / Replace Timber Substructure Components	LF	10	DECAYED TIMBER CROSSBRACING AT BENT 1 PILE 1	
3344	Repair / Replace Timber Substructure Components	LF	10	DECAYED TIMBER CROSSBRACING AT BENT 1 SPAN 2 AT PILE 5	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 230167

County COLUMBUS

Date: 07/22/2013

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3344	Repair / Replace Timber Substructure Components	LF	10	DECAYED TIMBER CROSSBRACING AT BENT 4 BETWEEN PILES 1 AND 2	
3348	Maintain Concrete Substructure Components	LF	8	EXPOSED CABLE ENDS AT SOUTH END OF BENT 1 CAP, SIMILAR IN BOTH ENDS OF ALL CAPS	
3366	Drift and Debris Removal	HR	3	DRIFT IN SPAN 3 AT BENT 3	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



VEGETATION OVER RAIL AT NORTHWEST CORNER



WEST APPROACH ASPHALT WEARING SURFACE IS PATCHED , SETTLED 1" IN BOTH LANES



SCATTERED VEGETATION ALONG LEFT CURB



SCATTERED VEGETATION ALONG RIGHT CURB



1/16" LONGITUDINAL CRACKS IN SPAN 1 WEST BOUND LANE ASPHALT WEARING SURFACE



1/4" LONGITUDINAL CRACK AT CENTERLINE UP TO 2" DEEP IN ALL SPANS



1/8" LONGITUDINAL CRACK AND DELAMINATED LEFT CURB IN SPAN 2 AT BENT 1



1/4" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1, SIMILAR OVER ALL JOINTS



PAINT PEELING ON LEFT RAIL IN ALL SPANS, RIGHT RAIL IS SIMILAR



ASPHALT WEARING SURFACE SPALLING OVER CHANNELS IN SPAN 2 WEST BOUND LANE



ASPHALT WEARING SURFACE CRACKED OVER BENT 2 JOINT



ASPHALT WEARING SURFACE SPALLING AT CENTERLINE IN SPAN 4



BLOCKED DECK DRAIN ALONG RIGHT CURB IN SPAN 5



EAST APPROACH ASPHALT WEARING SURFACE IS SETTLED UP TO 1"



PILE 1 AT END BENT 1 ENCASED IN CONCRETE



DECAYED TIMBER CROSSBRACING AT BENT 1 PILE 1



DECAYED TIMBER CROSSBRACING AT BENT 1 SPAN 2 AT PILE 5



CHANNEL 10 EXTERIOR RIGHT LEG SURFACE SPALLED AT BENT 1, SPAN 1



EXPOSED CABLE ENDS AT SOUTH END OF BENT 1 CAP, SIMILAR IN BOTH ENDS OF ALL CAPS



PILES 3 AND 4 AT BENT 2 ENCASED



THREE SURFACE SPALLS WITH EXPOSED REBAR IN SPAN 2 CHANNEL 1



BEARING PLATES AT BENT 1 RUSTED AND PITTING UP TO 1/8", ALL BEARINGS ARE SIMILAR



BENT 2 TIMBER CROSSBRACING IS DECAYED AT PILE 4



PILE 2 AT BENT 3 ENCASED



DRIFT IN SPAN 3 AT BENT 3



CHANNEL 3 IN SPAN 3 RIGHT LEG SPALLED 14" LONG X 2" HIGH WITH EXPOSED CABLE AT MID SPAN



DECAYED TIMBER CROSSBRACING AT BENT 4 BETWEEN PILES 1 AND 2



PILES 4 AND 5 ENCASED AT BENT 4



SIMILAR CHANNEL REPAIRS IN SPAN 5



CHANNEL 9 IN SPAN 5 HAS A 1/8" X 3' LONG CRACK IN LEFT LEG 3' FROM BENT 4

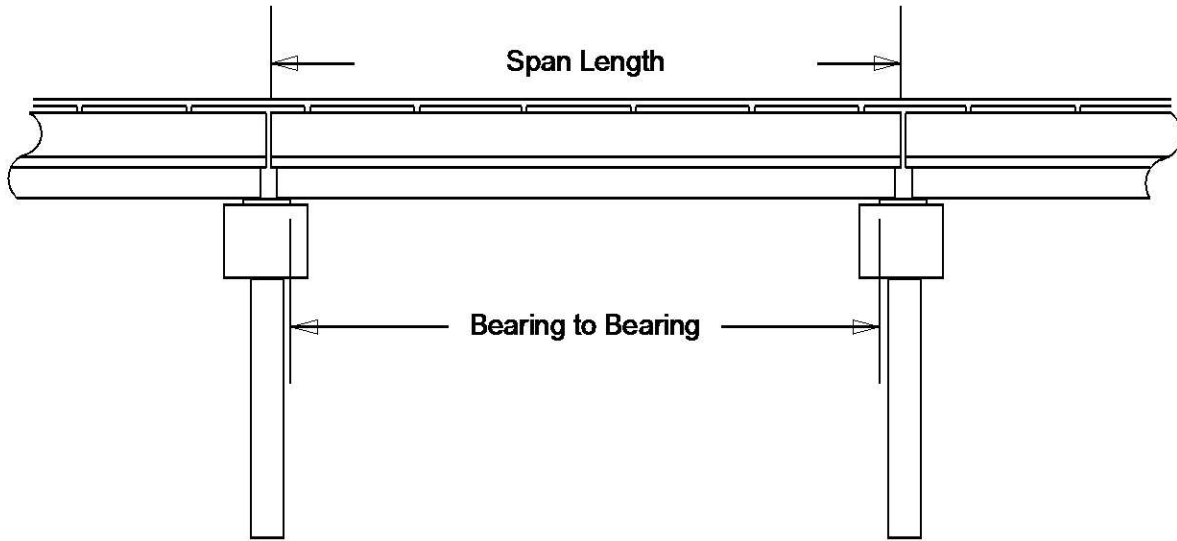


PILE 1 AT BENT 4, SPAN 5 FACE IS SURFACE DECAYED AT GROUND LINE

Structure Data Worksheet

Spans

County: COLUMBUS Structure No: 230167 Date: 07/22/2013 Inspected By: RDH



Span No	Span Length	Bearing to Bearing	Comments
1	30.333 FT.	29.0 FT.	NBIS 148.583 FT.
2	30.0 FT.	29.333 FT.	
3	30.0 FT.	29.333 FT.	
4	30.0 FT.	29.333 FT.	
5	30.75 FT.	29.417 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 230167 County: COLUMBUS Date: 07/22/2013 By: RDH

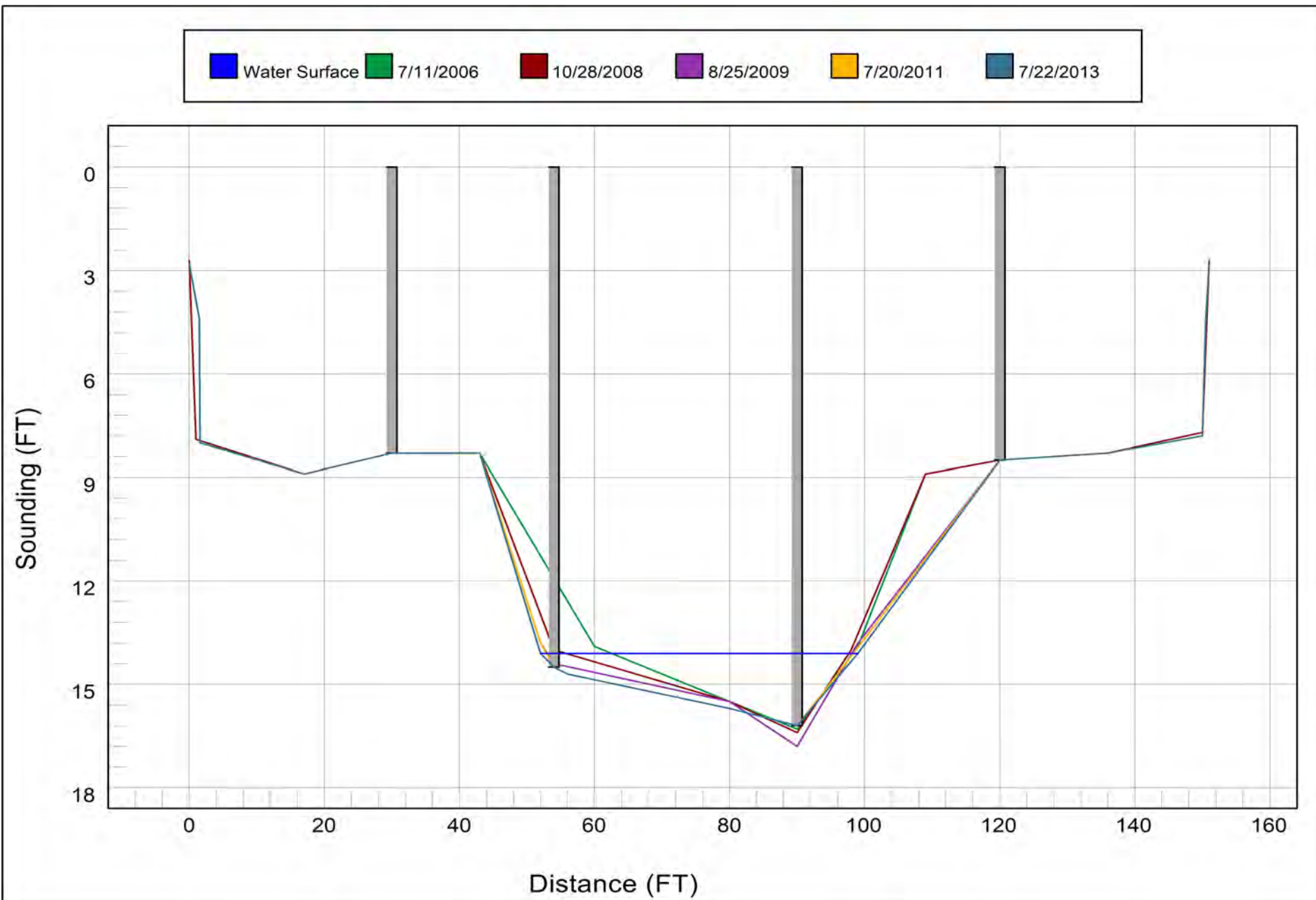
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 8 Location of Highwater Mark: ON PILES

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.8	TOP OF BULKHEAD			
1.5	4.4	Top of Cap			
1.6	8	GROUND AT CAP	1.6	8.3	GROUND AT CAP
17	8.9				
30	8.3	BENT 1	30	9.7	BENT 1
43	8.3				
52	14.1	WSWE (NORTH)			
54	14.5	BENT 2	54	14.9	BENT 2
56	14.7				
80	15.7	STREAM			
90	16.2	BENT 3	90	14.1	BENT 3
99	14.1	WSWE			
120	8.5	BENT 4	120	8.2	BENT 4
136	8.3				
150	7.8	GROUND AT CAP	150	8	GROUND AT CAP
150.5	4.4	Top of Cap			
151	2.8	TOP OF BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-1379 (HINSONS CROSSROADS)



Roadway	19ft Wide	2 Paved Lanes	Looking North
Left Shoulder	7ft Wide	0ft Paved	7ft Unpaved
Right Shoulder	7ft Wide	0ft Paved	7ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY RLK 8/25/09

MEASUREMENTS VERIFIED BY RLK 7/20/11

MEASUREMENTS VERIFIED BY RLK 7/22/13

Title

APPROACH ROADWAY

Description

LOOKING NORTH

Bridge No: 230167

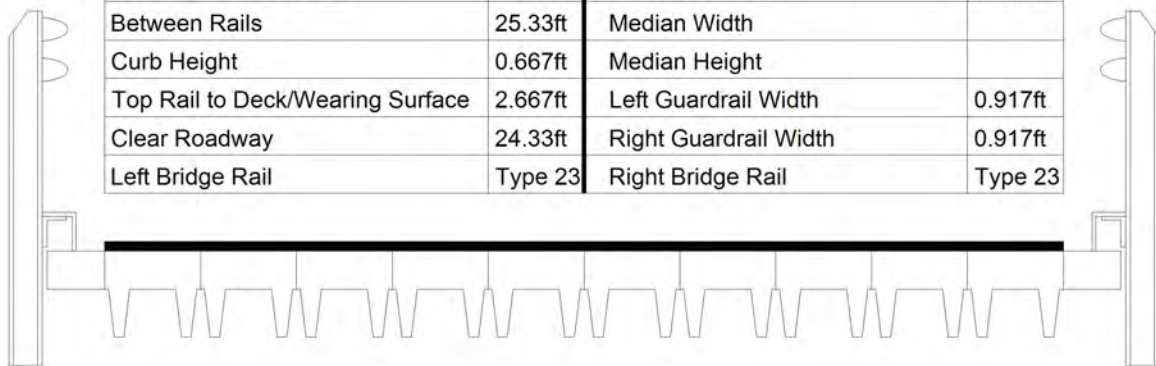
Drawn By: PFS

Date: 07/11/2006

File Name: S0326000140

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.833ft	Wearing Surface	0.177ft
Between Rails	25.33ft	Median Width	
Curb Height	0.667ft	Median Height	
Top Rail to Deck/Wearing Surface	2.667ft	Left Guardrail Width	0.917ft
Clear Roadway	24.33ft	Right Guardrail Width	0.917ft
Left Bridge Rail	Type 23	Right Bridge Rail	Type 23



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	0.417	Left Overhang	0.083
Top of Rail to Bottom of Beam	4.25	Right Overhang	0.083

No. of Channels	10
Leg Width	2.5 IN
Leg Height	12 IN
Leg to Leg (Centers)	21.5 IN
Channel Width	2.5833 FT.
Channel Height	17 IN
Comments	

MEASUREMENTS VERIFIED BY RLK 8/25/09

MEASUREMENTS VERIFIED BY RLK 7/20/11

MEASUREMENTS VERIFIED BY RLK 7/22/13

Title

SUPERSTRUCTURE

Description

LOOKING NORTH

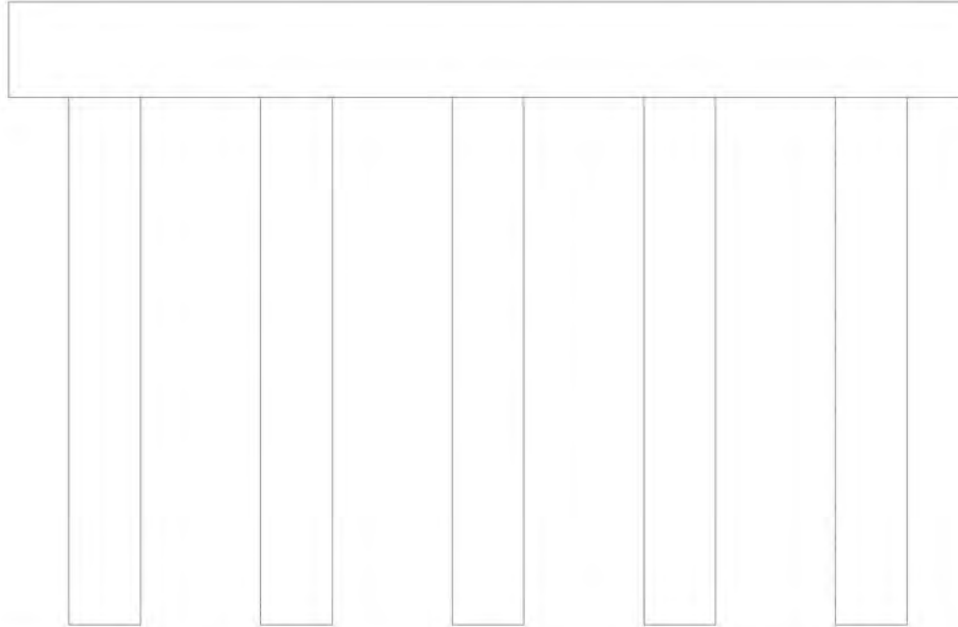
Bridge No: 230167

Drawn By: PFS

Date: 07/11/2006

File Name: S0326000141

Bridge Inspection Field Sketch



ALL INTERIOR AND END BENTS SIMILAR

CROSSBRACING AT INTERIOR BENTS

Bent #	1		
Cap - Pre-Cast			
Cap Size	26.1666ft Long	1.33ft Wide	1.083ft High
Left Overhang	1.583ft	Lt Cap/Beam Overhang	1.95ft
Right Overhang	1.583ft	Rt Cap/Beam Overhang	1.95ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	5.75		12 IN		Vertical
2	Wood or Timber	Pile Bent	5.75		12 IN.		Vertical
3	Wood or Timber	Pile Bent	5.75		12.IN		Vertical
4	Wood or Timber	Pile Bent	5.75		12 IN		Vertical
5	Wood or Timber	Pile Bent			12 IN		Vertical

MEASUREMENTS VERIFIED BY RLK 8/25/09

MEASUREMENTS VERIFIED BY RLK 7/20/11

MEASUREMENTS VERIFIED BY RLK 7/22/13

THE FOLLOWING PILES HAVE CONC. JACKETS

P-1 AT EBT. 1, P-3 AND P-4 AT BT.2 P-2 AT BT. 3 P-4 AND 5 AT BT.4

Title

SUBSTRUCTURE

Description

LOOKING NORTH

Bridge No: 230167

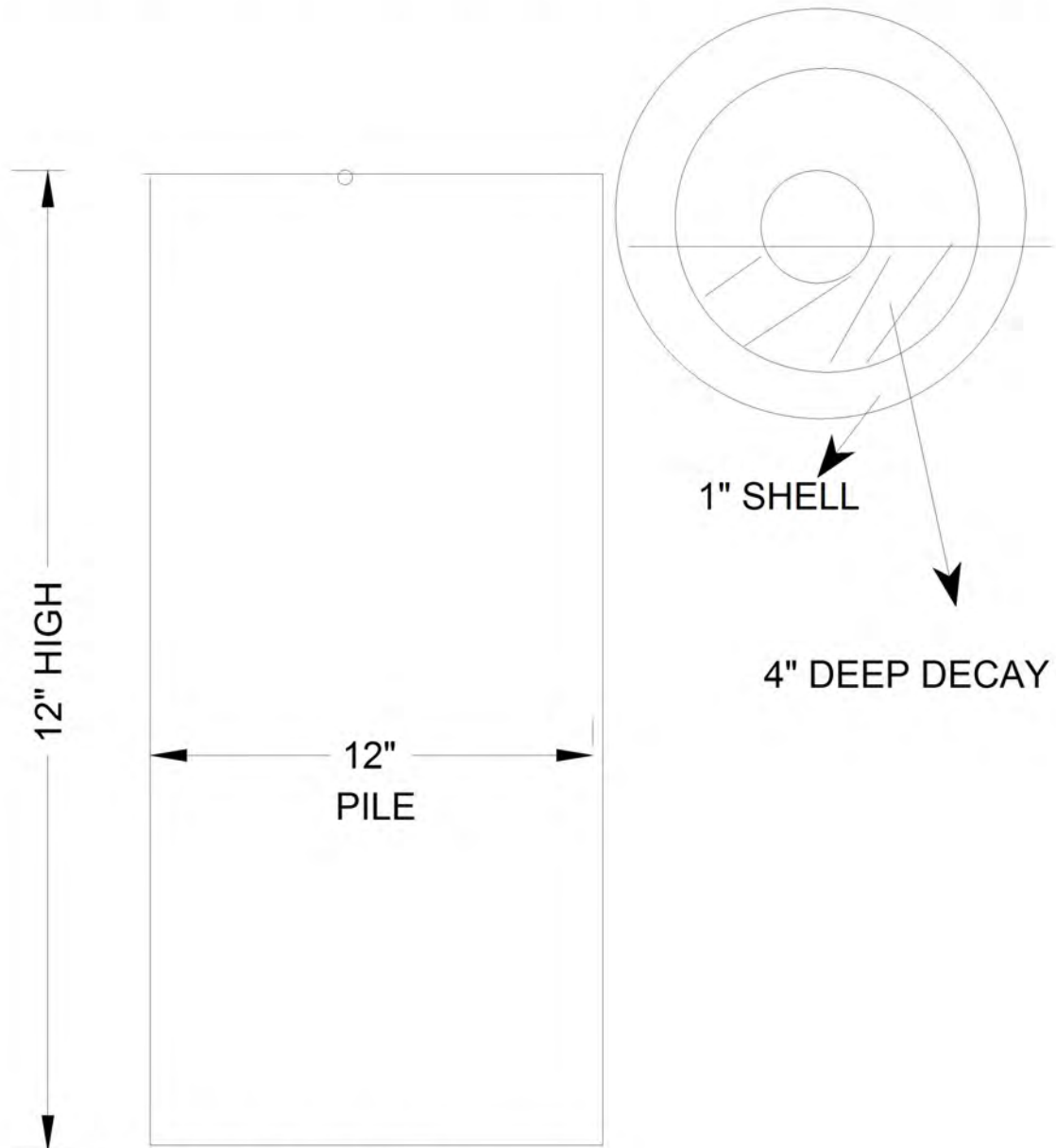
Drawn By: PFS

Date: 07/11/2006

File Name: S0326000142

Bridge Inspection Field Sketch

PILE 4 , BENT 4 DECAYED AREAS 12" HIGH X 1/2 CIRCUMFERENCE



THERE IS NO CHANGE SINCE LAST INSPECTION
MEASUREMENTS VERIFIED BY RLK 7/22/13

Title

PILE 4 , BENT 4

Description

DECAY SKETCH

Bridge No: 230167

Drawn By: RLK

Date: 7/21/2011

File Name: S0098001198



LOOKING EAST (HINSONS CROSSROAD)



LOOKING EAST



LOOKING WEST, OFF BRIDGE



LOOKING EAST, OFF BRIDGE



UPSTREAM SOUTH



DOWNSTREAM NORTH



LOOKING WEST (HINSONS CROSSROAD)



LOOKING WEST



SOUTH PROFILE



BENT 1



END BENT 1



SOUTH END OF BENT 1 CAP



BENT 2



SPAN 2 UNDERSIDE, ALL SPANS ARE SIMILAR



UPSTREAM SOUTH, THRU SPAN 3



DOWNSTREAM NORTH, THRU SPAN 3



BENT 4



END BENT 2



NORTH PROFILE