



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP REPAIRS: ENCASED PILES AT EBT 1, AND
BENT 1

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY COLUMBUS BRIDGE NUMBER 230308 INSPECTION CYCLE 2 YRS
ROUTE SR1005 ACROSS CREEK M.P. 0

LOCATION 0.2 MI.S.US74BUS.

SUPERSTRUCTURE RC FLOOR/I-BEAMS

SUBSTRUCTURE EBTS&IBT:RC CAPS/TIMBER PILES @ 7'6 CTS.

SPANS 2@18'6

LONGITUDE 78° 47' 57.72"

LATITUDE 34° 19' 31.11"

INSPECTION DATE 01/15/2013

PRESENT CONDITION FAIR

PRESENT POSTING SV 18 TTST 26 SV 18 TTST 26

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING NORTH (PEACOCK ROAD)

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>No</u>

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: 02/06/2013

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	230308		SUFFICIENCY RATING =	6.98
(8) STRUCTURE NUMBER(FEDERAL)		00000000470308		STATUS =	Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31010050			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3			
(3) COUNTY CODE	47	(4) PLACE CODE	0		
(6) FEATURE INTERSECTED - CREEK					
(7) FACILITY CARRIED SR1005					
(9) LOCATION 0.2 MI.S.US74BUS.					
(11)MILEPOINT		0			
(16)LAT 34° 19' 31.11"	(17)LONG	78° 47' 57.72"			
(98)BORDER BRIDGE STATE CODE	PCT SHARE				
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) STRUCTURE TYPE MAIN: Steel				(112)NBIS BRIDGE SYSTEM -	YES
TYPE - Stringer Mutlibeam or Girder	CODE	302		(104)HIGHWAY SYSTEM Is not on NHS	0
(44) STRUCTURE TYPE APPR :				(26) FUNCTIONAL CLASS - Minor Collector	08
TYPE -	CODE	000		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(45) NUMBER OF SPANS IN MAIN UNIT		2		(101)PARALLEL STRUCTURE - No Parallel Structure	N
(46) NUMBER OF APPROACH SPANS				(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(107)DECK STRUCTURE TYPE - 1	CODE			(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions	T
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	0
(A) TYPE OF WEARING SURFACE -	CODE			(20) TOLL On Free Road	3
(B) TYPE OF MEMBRANE -	CODE			(31) MAINTAIN - State Highway Agency	01
(C) TYPE OF DECK PROTECTION -	CODE			(22) OWNER - State Highway Agency	01
				(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
				CONDITION	
				(58) DECK	5
				(59) SUPERSTRUCTURE	7
				(60) SUBSTRUCTURE	3
				(61) CHANNEL & CHANNEL PROTECTION	5
				(62) CULVERTS	N
				LOAD RATING AND POSTING	
				(31) DESIGN LOAD Unknown	0
				(63) OPERATING RATING METHOD - Load Factor	
				(64) OPERATING RATING - HS-1	101
				(65) INVENTORY RATING METHOD - Load Factor	
				(66) INVENTORY RATING - HS-1	101
				(70) BRIDGE POSTING - Posting Required	0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P
				DESCRIPTION - Posted for Load	
				APPRAISAL	
				(67) STRUCTURAL EVALUATION	3
				(68) DECK GEOMETRY	2
				(69) UNDERCLEARANCES,VERTI & HORIZ	N
				(71) WATERWAY ADEQUACY	7
				(72) APPROACH ROADWAY ALIGNMENT	8
				(36) TRAFFIC SAFETY FEATURES	0000
				(113)SCOUR CRITICAL BRIDGES	8
				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 4400	(115) YEAR FUTURE ADT 2025
				INSPECTIONS	
				(90) INSPECTION DATE	01/15/2013
				(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	
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: 02/06/2013

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
COLUMBUS	6	3	230308	37	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1005	CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.2 MI.S.US74BUS.		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
08	NFA	NFA	2200 2011	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1951	BMU			Unknown

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

NAVIGATION :				HT. CRN. TO BED :		WATER DEPTH :	
VC 0 FT	HC 0 FT			10 FT		3	FT

SUPERSTRUCTURE :	RC FLOOR/I-BEAMS
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SUBSTRUCTURE :	EBTS&IBT:RC CAPS/TIMBER PILES @ 7'6 CTS.
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SPANS :	2@18'6
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BEAMS OR GIRDERS :	12 LINES W12X16.5 I-BEAMS @ 2'2.5 CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5 RC/NO AWS		25.333 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.5 FT	LT .75 FT RT .75 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	INT BM	SV 18	TTST 26	DATE	09/04/2008	

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. 230308 COUNTY COLUMBUS ROUTE SR1005 OVER CREEK
 STRUCTURE TYPE RC FLOOR/I-BEAMS
 ROUTE ORIENTATION S - N SPANS 2@18'6

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				45. CHANNEL & CHANNEL PROT.	a. WATERWAY	G
					b. ALIGNMENT	G
					c. SCOUR	F
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	2	F	50. APPROACH ROADWAY CONDITION		
	b. TIMBER			51. APPROACH SLABS		
	c. STEEL PLANK			52. PAINT SYSTEM CODE A		
	d. OPEN GRID			53. UTILITIES		
3. RAILING	a. CONCRETE		G	54. RESPONSE TO LIVE LOAD		
	b. TIMBER			55. ESTIMATED REMAINING LIFE		
	c. ALUMINUM					
	d. STEEL					
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G			
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER			61. PROMPT-ACTION NOTICE ISSUED		
	b. MISC PREFAB			62. PRESENTLY POSTED		
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		
	d. STANDARD JOINTS	1	G	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	5
10. LONGITUDINAL BEAMS OR GIRDERS			G	b. SUPERSTRUCTURE	ITEM 59	7
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			G			
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS		
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			G	a. WATERWAY ADAQUACY		7
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT		8
17. MOVABLE SPAN MACHINERY						
				72. FIELD SCOUR EVALUATION		
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
	c. BULKHEADS, WING'S, & TIE BACKS		G	LADDER		NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		G	BUCKET TRUCK		NO
	b. ABUT. & BENT COL'S BREASTWALLS			BOAT		YES
	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:	RD. Hoots	
41. DRIFT			G	81. REVIEWED BY:		

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
Team Leader R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
2a	F	(RC DECK) THERE IS 1/16" MAP CRACKING AND POP OUTS IN SPAN 1 DECK. (PHOTO) THERE IS ALSO 1/16" TRANSVERSE CRACK AND MAP CRACKING IN SPAN 1 NORTH BOUND LANE. (PHOTO) THERE IS CRACKING NOTED IN SPAN 2 DECK AT SOUTH BOUND LANE. (PHOTO) THERE IS A TRANSVERSE CRACK IN SPAN 2 DECK. (PHOTO) THERE ARE RANDOM AGGREGATE POPOUTS AND SCALING IN BOTH SPANS UP TO 1/2" DEEP. (PHOTO)	
3a	G	(RC RAILS) BOTH RAILS HAVE BEEN REPAIRED. (PHOTO)	
6d	G	(STANDARD JOINT) BENT 1 STANDARD JOINT SEALED. (PHOTO)	
10	G	(STEEL BEAMS) THE BEAMS HAVE BEEN PAINTED SINCE LAST INSPECTION. (PHOTOS) BEAM ENDS REPAIRED AND PAINTED AT BENT 1. ALL BEAMS ARE SIMILAR. (PHOTO)	
10A	NO	BEAM 12 IN SPAN 2 AT BENT 1 HAS SIMILAR REPAIRS. (PHOTO) (CURVED GIRDERS) NO CURVED GIRDERS.	
15	G	(BEARING ASSEMBLIES) THE BEARINGS HAVE BEEN PAINTED SINCE LAST INSPECTION. BEAM 12 BEARINGS AT BENT 1 FRESH PAINT. ALL BEARINGS ARE SIMILAR. (PHOTO)	
16	G	(DRAINAGE SYSTEM) THE LAST DECK DRAIN IN SPAN 2 RIGHT SIDE HAS BEEN REPAIRED. (PHOTO)	
52	G	(PAINT SYSTEM) THE BEAMS AND BEARINGS HAVE BEEN PAINTED SINCE LAST INSPECTION. (PHOTOS)	
35b	F	(TIMBER PILES) PILES 2, AND 3 AT BENT 1 HAVE BEEN DRIVEN OUT OF PLUMB. PILES 1, AND 4 ARE ENCASED IN CONCRETE AT BENT 1. (PHOTO) PILE 4 AT END BENT 1 ENCASED IN CONCRETE. (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		
35c	G	(TIMBER BULKHEADS) NEW WINGWALL AND WING PILES AT SOUTHWEST CORNER. (PHOTO) NEW WINGWALL AND WING PILES AT NORTHWEST CORNER. (PHOTO) END BENT 1 BULKHEAD REPAIRS AT SOUTHEAST CORNER. (PHOTO) WINGWALL REPAIRS AT SOUTHEAST CORNER. (PHOTO) END BENT 2 BULKHEAD BOARDS REPAIRED. (PHOTO)	
36a	G	(RC CAPS) BENT 1 CAP SPALL HAS BEEN REPAIRED ON THE SPAN 1 FACE LEFT OF PILE 1.	
45c	F	(SCOUR) THERE IS LATERAL BANK EROSION IN SPAN 2. (PHOTO) THERE IS LATERAL BANK EROSION IN SPAN 1 AT END BENT 1.	
50	F	(APPROACH ROADWAYS) THERE ARE HAIRLINE TO 1/16" TRANSVERSE CRACKS IN BOTH APPROACHES, WITH NO SETTLEMENT AT THIS TIME. (PHOTOS)	
62	YES	(PRESENTLY POSTED SV - 18 TONS, TTST - 26 TONS	
73f	YES	(OTHER EQUIPMENT) BOOTS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 230308

County COLUMBUS

Date: 01/15/2013

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3326	Maintain Concrete Deck	SF	3	CRACKING IN DECK, WITH SURFACE 1/2" DEEP POPOUTS AT RANDOM	
3352	Maint Slope Protection	SF	30	LATERAL BANK EROSION IN SPAN 2 AT END BENT 2	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



NEW WINGWALL AND WING PILES AT SOUTHWEST CORNER



NEW WINGWALL AND WING PILES AT NORTHWEST CORNER



BENT 1 PILES 1 AND 4 ENCASED IN CONCRETE



BEAM ENDS REPAIRED AND PAINTED AT BENT 1, ALL BEAMS ARE SIMILAR



END BENT 1 BULKHEAD REPAIRS AT SOUTHEAST CORNER



WINGWALL REPAIRS AT SOUTHEAST CORNER



HAIRLINE TO 1/16" TRANSVERSE CRACKS IN SOUTH APPROACH ASPHALT WEARING SURFACE



BOTH RAILS HAVE BEEN REPAIRED



BOTH CURBS HAVE BEEN REPAIRED



1/16" MAP CRACKING WITH POPOUTS IN SPAN 1 DECK



1/16" TRANSVERSE CRACK AND MAP CRACKING IN SPAN 1 NORTH BOUND LANE



CRACKING IN SPAN 2 SOUTH BOUND LANE



TRANSVERSE CRACK IN SPAN 2 DECK



RANDOM SURFACE POPOUTS IN SPAN 2 DECK UP TO 1/2" DEEP



BENT 1 STANDARD JOINT SEALED



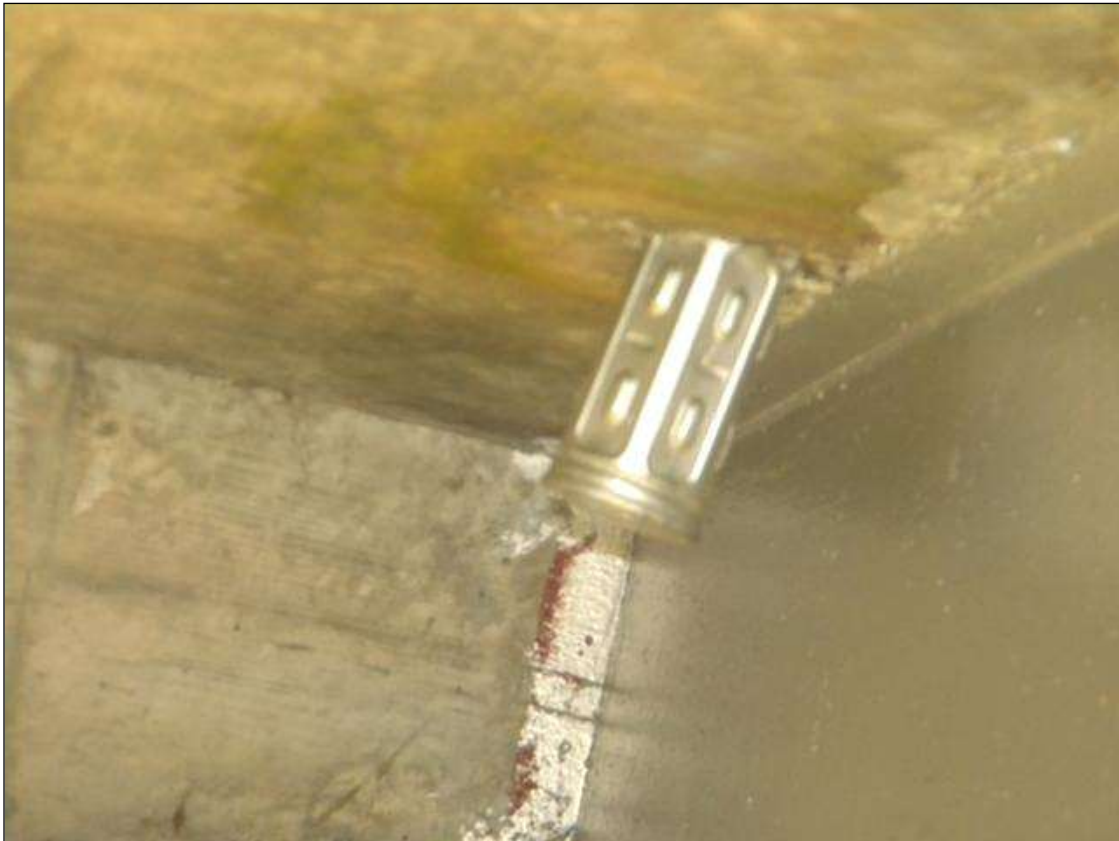
HAIRLINE TO 1/16" TRANSVERSE CRACKS IN NORTH APPROACH ASPHALT WEARING SURFACE



PILE 4 AT END BENT 1 ENCASED IN CONCRETE



BEAM 12 BEARINGS AT BENT 1 FRESH PAINT, ALL BEARINGS ARE SIMILAR



SPAN 2 RIGHT DRAIN DOWNSPOUT REPAIRED



END BENT 2 BULKHEAD BOARDS REPAIRED



LATERAL BANK EROSION IN SPAN 2 AT END BENT 2



BEAM 12, SPAN 2 AT BENT 1 IS A SIMILAR REPAIR

Structure Data Worksheet

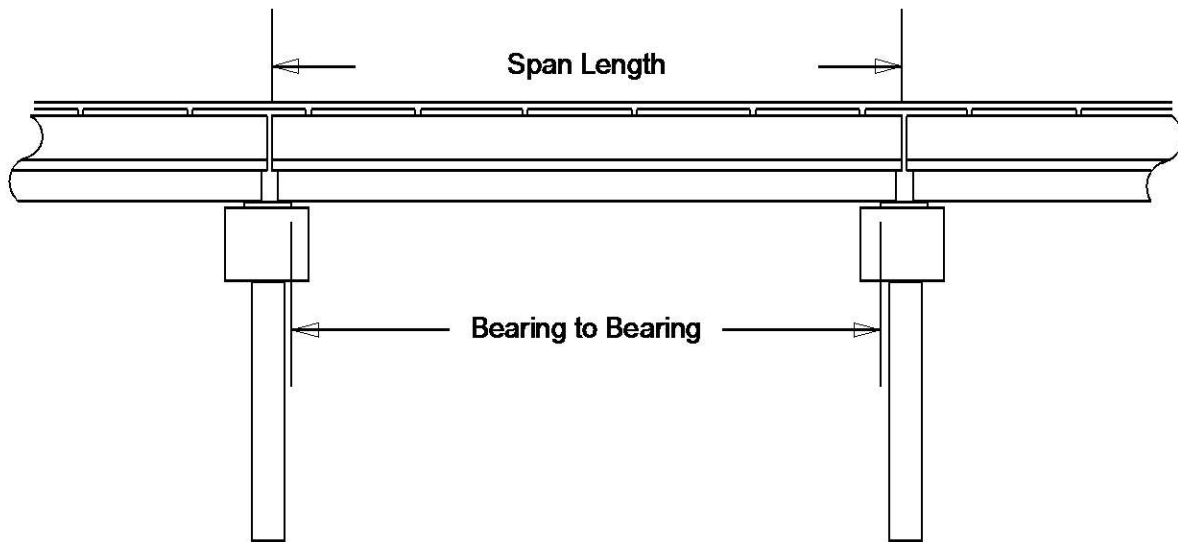
Spans

County: **COLUMBUS**

Structure No: **230308**

Date: **01/15/2013**

Inspected By: **RDH**



Span No	Span Length	Bearing to Bearing	Comments
1	18.5FT	17.167 FT.	NBIS 32.917 FT.
2	18.5FT	17.167 FT.	
	2		

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 230308 County: COLUMBUS Date: 01/15/2013 By: RDH

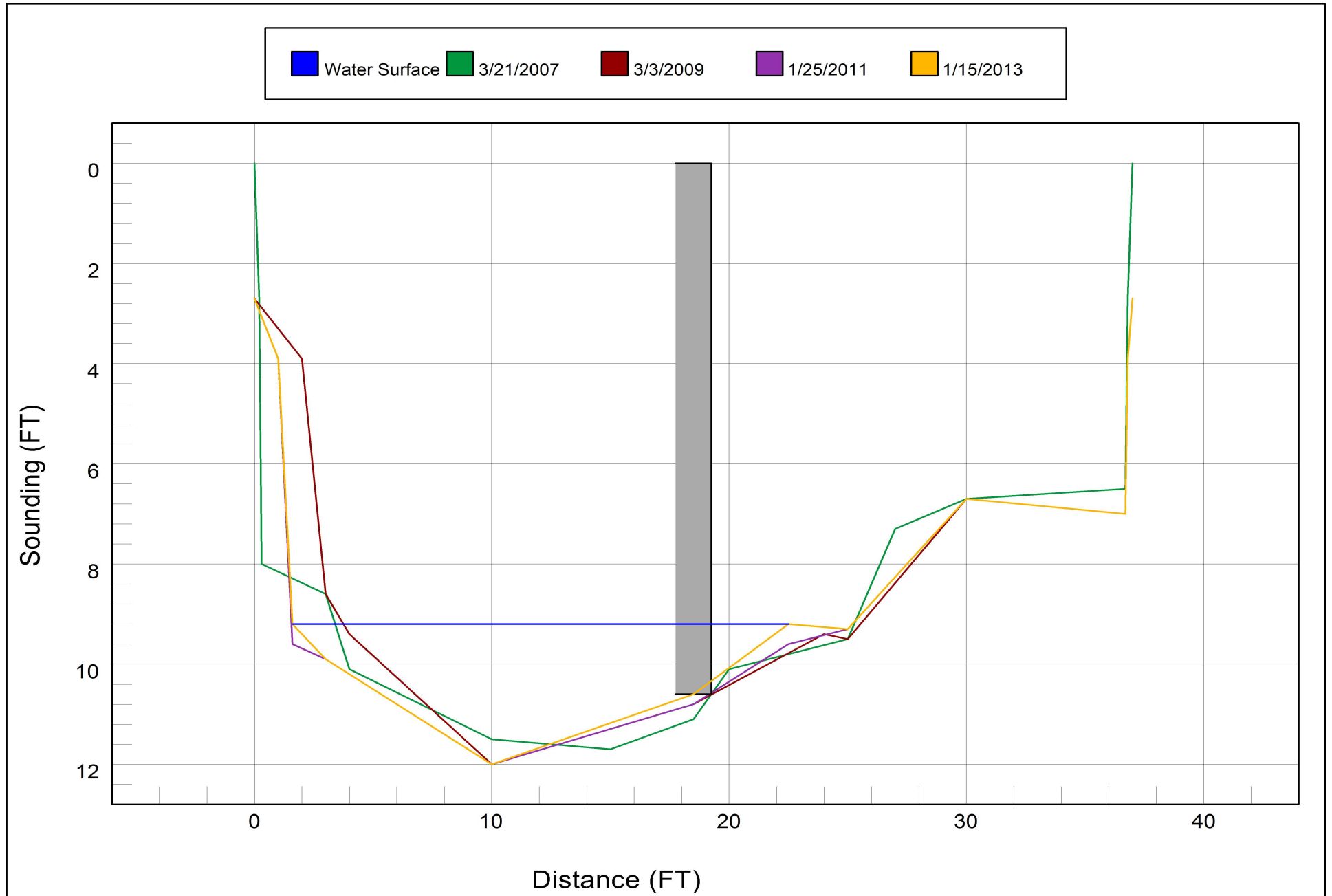
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 3.6 Location of Highwater Mark: ON CAP

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.7	FILLFACE/ BULKHEAD			
1	3.9	Top of Cap			
1.6	9.2	WSWE (EAST)			
3	9.9	BED AT CAP	3	7.3	GROUND AT CAP
10	12				
18.5	10.6	BENT 1	18.5	12.7	BENT 1
22.5	9.2	WSWE			
25	9.3				
30	6.7				
36.7	7	GROUND AT CAP	36.7	8	GROUND AT CAP
36.8	3.9	Top of Cap			
37	2.7	FILLFACE/ BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-1005 (PEACOCK ROAD)

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

MEASUREMENTS VERIFIED BY RLK 1/15/13

MEASUREMENTS VERIFIED BY RLK 1/25/11

Title

APPROACH ROADWAY

Description

LOOKING NORTH SR 1005

Bridge No: 230308

Drawn By: MWC

Date: 03/20/2007

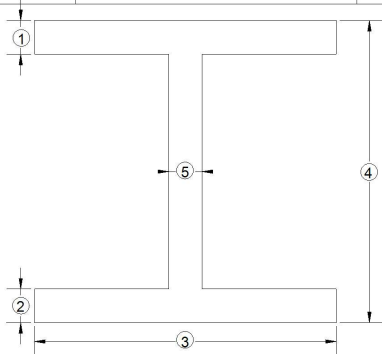
File Name: S0258010765

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.333ft	Wearing Surface	
Between Rails	25.5ft	Median Width	
Curb Height	0.75ft	Median Height	
Top Rail to Deck/Wearing Surface	2.5ft	Left Guardrail Width	
Clear Roadway	24ft	Right Guardrail Width	
Left Bridge Rail	Type 24	Right Bridge Rail	Type 24

Measurements for Span #	1	SPAN 2 SIMILAR	
Deck Thickness	0.417	Left Overhang	0.521
Top of Rail to Bottom of Beam	3.917	Right Overhang	0.521

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.208ft	BETHLEHEM - USA STEEL
2	Steel I Beam	2.208ft	
3	Steel I Beam	2.208ft	
4	Steel I Beam	2.208ft	
5	Steel I Beam	2.208ft	
6	Steel I Beam	2.208ft	
7	Steel I Beam	2.208ft	
8	Steel I Beam	2.208ft	
9	Steel I Beam	2.208ft	
10	Steel I Beam	2.208ft	
11	Steel I Beam	2.208ft	
12	Steel I Beam		



	Dimension
1	1/4 inches
2	1/4 inches
3	4 inches
4	12 inches
5	1/4 inches

MEASUREMENTS VERIFIED BY RLK 1/25/11
MEASUREMENTS VERIFIED BY RLK 1/15/13

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

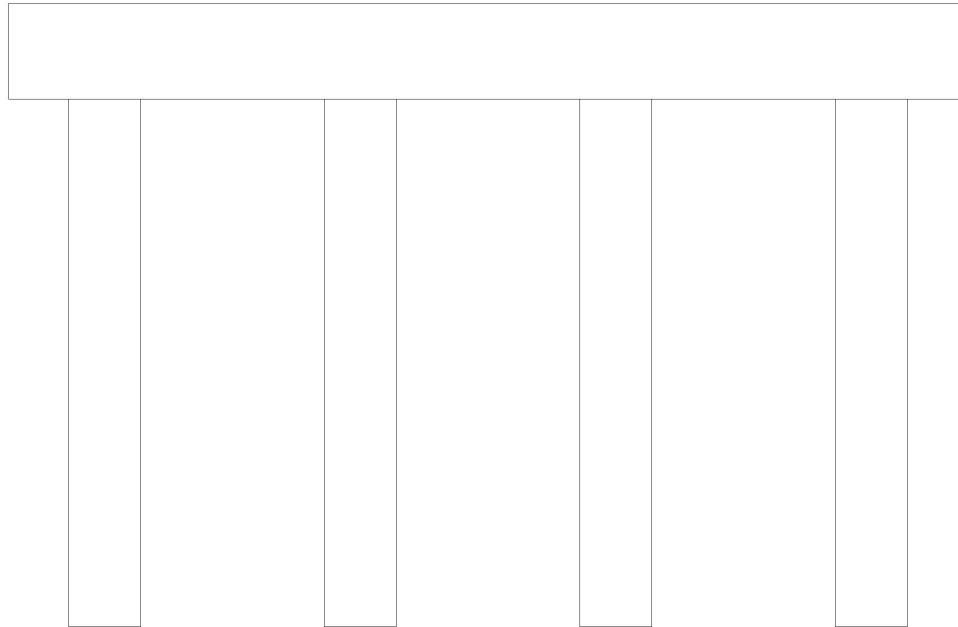
Bridge No: 230308

Drawn By: MWC

Date: 03/20/2007

File Name: S0258010766

Bridge Inspection Field Sketch



Abutment #	1	Abutment 2 similar	
Cap - Cast In Place			
Cap Size	27.168ft Long	2ft Wide	2ft High
Left Overhang	2.333ft	Lt Cap/Beam Overhang	1.5ft
Right Overhang	2.333ft	Rt Cap/Beam Overhang	1.5ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	7.5		1.0		Vertical
2	Wood or Timber	Pile Bent	7.5		1.0		Vertical
3	Wood or Timber	Pile Bent	7.5		1.0		Vertical
4	Wood or Timber	Pile Bent			1.0		Vertical

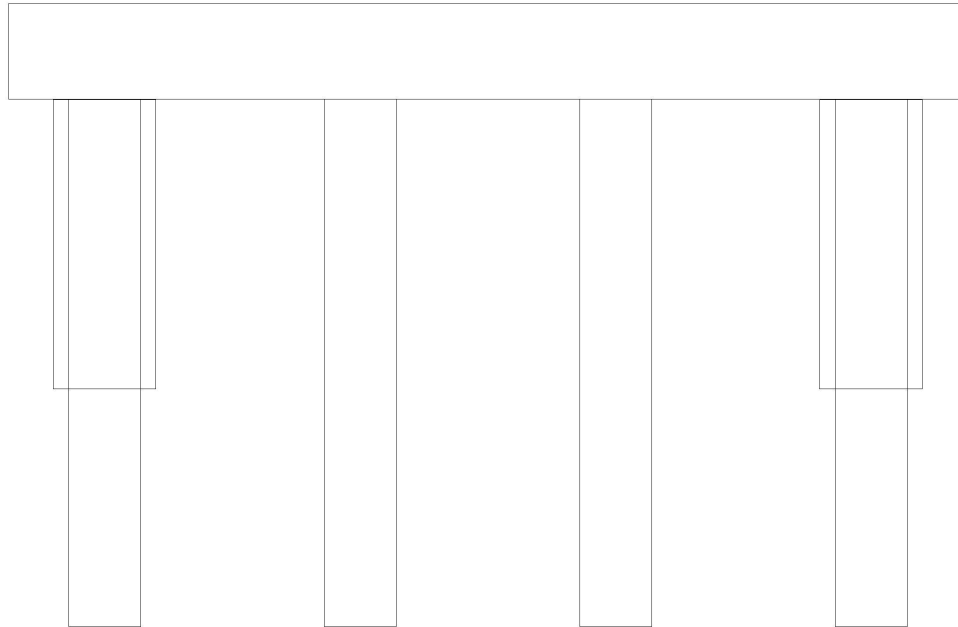
PILE 4 AT EBT1 IS ENCASED IN CONCRETE

MEASUREMENTS VERIFIED BY RLK 1/25/11

MEASUREMENTS VERIFIED BY RLK 1/15/13

Title		Description	
SUBSTRUCTURE		ABUTMENTS 1 AND 2	
Bridge No:	230308	Drawn By: MWC	Date: 03/20/2007
		File Name:	S0258010767

Bridge Inspection Field Sketch



2 FT DIAMETER RC JACKET PILE 1

2 FT x 2.5 FT RC JACKET AT PILE 4

Bent #	1		
Cap - Cast In Place			
Cap Size	27.168ft Long	2ft Wide	2ft High
Left Overhang	2.333ft	Lt Cap/Beam Overhang	1.5ft
Right Overhang	2.333ft	Rt Cap/Beam Overhang	1.5ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	7.5		1.0		Vertical
2	Wood or Timber	Pile Bent	7.5		1.0		Vertical
3	Wood or Timber	Pile Bent	7.5		1.0		Vertical
4	Wood or Timber	Pile Bent			1.0		Vertical

MEASUREMENTS VERIFIED BY RLK 1/25/11

MEASUREMENTS VERIFIED BY RLK 1/15/13

Title		Description	
SUBSTRUCTURE 1		BENT 1	
Bridge No: 230308	Drawn By: MWC	Date: 03/20/2007	File Name: S0258010768



LOOKING NORTH (PEACOCK ROAD)



LOOKING NORTH



EAST SIDE, LOOKING WEST



WEST SIDE, LOOKING EAST



BENT 1



SPAN 1 UNDERSIDE, SPAN 2 IS SIMILAR



DOWNSTREAM EAST, THRU SPAN 1



UPSTREAM WEST, THRU SPAN 1



BENT 1 STANDARD JOINT



LOOKING SOUTH, OFF BRIDGE



LOOKING NORTH, OFF BRIDGE



UPSTREAM WEST



DOWNSTREAM EAST



LOOKING SOUTH (PEACOCK ROAD)



LOOKING SOUTH



END BENT 1



END BENT 2



EAST END OF BENT 1 CAP