



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRS TO PILES.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY CARTERET BRIDGE NUMBER 150033 INSPECTION CYCLE 2 YRS
 ROUTE US70 ACROSS NORTH RIVER M.P. 0

LOCATION 5.5 MI.N.JCT.NC101

SUPERSTRUCTURE CONT.REINFORCED CONCRETE MONOLITHIC SLAB

SUBSTRUCTURE EBTS&IBT:RC CAP/PPC.PILES W/ STL.CRUTCH BTS.ADDED.

SPANS 1@23';22@21'9";1@25';22@21'9";1@23' CONT.

LONGITUDE 76° 36' 36.0"

LATITUDE 34° 47' 20.9"

PRESENT CONDITION FAIR

INVENTORY RATING HS-01

INSPECTION DATE 05/10/2011

OPERATING RATING HS-01

PRESENT POSTING SV 99 TTST 99 **NOT POSTED**

PROPOSED POSTING N.P.

COMPUTER UPDATE 5-24-11

ANALYSIS DATE 5-18-11

POSTING LETTER DATE _____

SUFFICIENCY RATING _____

OTHER SIGNS PRESENT (4) DELINEATORS



LOOKING EAST

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: 05/24/2011

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 150033
 (8) STRUCTURE NUMBER(FEDERAL) 000000000310033
 INVENTORY ROUTE (ON/UNDER) - ON 121000700
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 2
 (3) COUNTY CODE 31 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - NORTH RIVER
 (7) FACILITY CARRIED US70
 (9) LOCATION 5.5 MI.N.JCT.NC101
 (11)MILEPOINT 0
 (16)LAT 34° 47' 20.9" (17)LONG 76° 36' 36.0"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 8
 STATUS = Structurally Deficient

CLASSIFICATION CODE

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM NHS Route 1
 (26) FUNCTIONAL CLASS - Arterial - Other 02
 (100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
 (101)PARALLEL STRUCTURE - No Parallel Structure N
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103)TEMPORARY STRUCTURE - Temporary T
 (110)DESIGNATED NATIONAL NETWORK - Not Part of 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: Concrete continuous
 TYPE - Slab CODE 201
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 47
 (46) NUMBER OF APPROACH SPANS
 (107)DECK STRUCTURE TYPE - Concrete cast-in-place CODE 1
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - Concrete CODE 1
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION CODE

(58) DECK 5
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 3
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD H 15 2
 (64) OPERATING RATING - HS-1 101
 (66) INVENTORY RATING - HS-1 101
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED D
 DESCRIPTION - Open Temporary Shoring

AGE AND SERVICE

(27) YEAR BUILT 1959
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Waterway CODE 15
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 9400
 (30) YEAR OF ADT 2009 (109) TRUCK ADT PCT. 14 %
 (19) BYPASS OR DETOUR LENGTH 99 MI

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 2
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES,VERTI & HORIZ N
 (71) WATERWAY ADEQUACY 7
 (72) APPROACH ROADWAY ALIGNMENT 7
 (36) TRAFFIC SAFETY FEATURES 0000
 (113)SCOUR CRITICAL BRIDGES 4
 SCOUR PLAN OF ACTION

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 25 FT
 (49) STRUCTURE LENGTH 1028 FT
 (50)CURB OR SIDEWALK: LEFT 1.6 FT RIGHT 1.6 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 28.0 FT
 (52) DECK WIDTH OUT TO OUT 31.5 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 24.0 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 0° (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.0 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
 (54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad
 (55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 99.9 FT
 (56) MIN LAT UNDERCLEAR LT REF - 0.0 FT

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE 311
 (76) LENGTH OF STRUCTURE IMPROVEMENT 1028 FT
 (94) BRIDGE IMPROVEMENT COST \$3,050,000
 (95) ROADWAY IMPROVEMENT COST \$763,000
 (96) TOTAL PROJECT COST \$4,575,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 2007
 (114)FUTURE ADT 18800 (115) YEAR FUTURE ADT 2025

NAVIGATION DATA

(38) NAVIGATION CONTROL - No Navigational Control CODE 0
 (111)PIER PROTECTION - Not Applicable CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0
 (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

INSPECTIONS

(90) INSPECTION DATE 05/10/2011
 (92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - YES 48Mo B) 10/01/2007
 C) OTHER SPECIAL INSP NO C)
 SCOUR

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 150033 COUNTY CARTERET ROUTE US70 OVER NORTH RIVER
 STRUCTURE TYPE CONT.REINFORCED CONCRETE MONOLITHIC SLAB
 ROUTE ORIENTATION W - E SPANS 1@23';22@21'9;1@25';22@21'9;1@23' CONT.

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		G	
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.			
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE		47	F	50. APPROACH ROADWAY CONDITION		F	
	b. TIMBER				51. APPROACH SLABS			
	c. STEEL PLANK				52. PAINT SYSTEM		CODE	
	d. OPEN GRID				53. UTILITIES		G	
3. RAILING	a. CONCRETE			G	54. RESPONSE TO LIVE LOAD		F	
	b. TIMBER				55. ESTIMATED REMAINING LIFE		13	
	c. ALUMINUM							
	d. STEEL							
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)		30	
	d. STANDARD JOINTS		10	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				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								
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)				b. APPR. RDWY. ALIGNMENT		7		
17. MOVABLE SPAN MACHINERY								
				72. FIELD SCOUR EVALUATION		0		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)								
				USE OF INSP. ACCESSIBILITY EQUIPMENT				
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS				SNOOPER (CODE S, 4, OR N)		HRS	NO
	b. PILES, POST, SILLS, & BRACING				LADDER			NO
	c. BULKHEADS, WING'S, & TIE BACKS				BUCKET TRUCK			NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		F		BOAT			YES
	b. ABUT. & BENT COL'S BREASTWALLS				OTHER			NO
	c. ABUT. & INT. BENT PILES		F					
	d. BACKWALLS, WING'S, RETAIN. WALLS		G					
	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		F					
38. FOUNDATION PILES TYPE MATERIAL				NOTE				
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)				G				
40. FENDER SYSTEMS								
41. DRIFT				G		80. INSPECTED BY:		<i>B. G. L. H. H. H. H.</i>
						81. REVIEWED BY:		

BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES

BRIDGE # 150033 COUNTY CARTERET DATE 9-19-00

THE FOLLOWING SI & A ITEMS ARE TO BE CODED TO REFLECT THE FACT THAT THE STRUCTURE IS SHORED UP:

		CODE	BY
SI & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION		<u>7</u>	<u>JL</u>
SI & A ITEM 59 - SUPERSTRUCTURE		<u>—</u>	<u>—</u>
SI & A ITEM 60 - SUBSTRUCTURE		<u>3</u>	<u>JL</u>
SI & A ITEM 64 - OPERATING RATING	HS <u>0.0</u> BY <u>SML</u>	<u>01</u>	<u>VPP</u>
SI & A ITEM 66 - INVENTORY RATING	HS <u>0.0</u> BY <u>SML</u>	<u>01</u>	<u>VPP</u>

COMMENTS:

ADDED CROSS CAP @ BENT #40

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>
State of North Carolina Dept. of Transportation Division of Highways		
Team Leader BG LITTLETON, JR.		
Assisted By PDI		
Item No.	Grade	
2a	F	<p>(MONOLITHIC SLAB)</p> <p>MONO SLAB WITH CONSTRUCTION JOINTS LOCATED AT THE FOLLOWING BT; BT 2, BT 7, BT 12, BT 17, BT 30, BT 35, BT 40, BT 45.</p> <p>H/L CRACKS NOTED IN THE LEFT & RIGHT LANES THRU OUT.</p> <p>NUMERIOUS REPAIRS MADE TO THE SLAB UNDERSIDE WITH GUNITE SINCE THE LAST INSPECTION WITH THE FOLLOWING CRACKED & DELAMINATED AREAS REMAINING; (SOME PREVIOUS PATCHES STILL IN PLACE)</p> <p>SPAN 6 DECK UNDERSIDE REPAIRED SINCE LAST INSPECTION. OTHER PRESENT REPAIRS SIMILAR. (PHOTO)</p> <p>SPAN 12 DECK UNDERSIDE CRACKED & DELAMINATED WITH RUST STAIN 3' OUT FROM BT.11 CAP BETWEEN PILES 3 & 4. (PHOTO)</p> <p>SPAN 15 DECK UNDERSIDE CRACKED & DELAMINATED NEAR BT.14 CAP LEFT OF PILE 3. (PHOTO)</p> <p>SPAN 16 DECK UNDERSIDE CRACKED & DELAMINATED 1-1/2' OUT FROM BT.15 CAP BETWEEN PILES 3 & 4. (PHOTO)</p> <p>NUMEROUS HAIRLINE LONGITUDINAL CRACKS IN SPAN 20 DECK UNDERSIDE EXTENDING FROM BT 20 CAP. (PHOTO)</p> <p>SPAN 20 DECK UNDERSIDE CRACKED & DELAMINATED 3' BACK FROM BT.20 CAP BETWEEN PILES 1 & 2. (PHOTO)</p> <p>SPAN 21 DECK UNDERISDE CRACKED & DELAMINATED 2' OUT FROM BT.20 CAP BETWEEN PILES 3 & 4. (PHOTO)</p> <p>SPAN 29 DECK UNDERSIDE LONGITUDINALLY CRACKED & DELAMINATED 3- 4' BACK FROM BT.28 CAP RIGHT OF PILE 3. (PHOTO)</p> <p>SPAN 30 DECK UNDERSIDE DELAMINATED ALONG THE LEFT EDGE @ MIDSPAN. (PHOTO)</p> <p>SPAN 32 DECK UNDERSIDE REPAIRED SINCE THE LAST INSPECTION. (PHOTO)</p> <p>SPAN 47 DECK CRACKED & DELAMINATED 6' OUT FROM BT.46 & 4' FROM THE RIGHT EDGE OF DECK. (PHOTO)</p>
3a	G	<p>(RC RAILS)</p> <p>FEW CRACKS AND SURFACE SPALLS NOTED IN THE RAIL BAR AT RANDOM.</p>
4	G	<p>(CONC CURBS)</p> <p>H/L CRACKING NOTED IN BOTH CURBS.</p>

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>
State of North Carolina Dept. of Transportation Division of Highways		
Team Leader BG LITTLETON, JR.		
Assisted By PDI		
Item No.	Grade	
6d	F	(STANDARD JOINTS) TEN STANDARD JOINTS LOCATED OVER BTS. BT 5, BT 10, BT 15, BT 20, BT 23, BT 24, BT 27, BT 32, BT 37, BT 42. JOINT MATERIAL MISSING & FILLED WITH DEBRIS @ THE LEFT SHOULDER @ BT.5. SIMILAR @ THE RIGHT SHOULDER & RANDOM BTS. (PHOTO) STANDARD JOINT MATERIAL DETERIORATED & PULLED LOOSE ALONG THE EDGES @ BT.10. SIMILAR @ RANDOM BTS. (PHOTO)
7	F	(DECK DEBRIS) DEBRIS ALONG THE LEFT SHOULDER. (PHOTO)
10	F	(MONOLITHIC SLAB) SEE DECK ITEM #2A.
16	F	(DRAINAGE SYSTEM) RESTRICTED BY DEBRIS.
36a	F	(CONC. CAPS) SEVERAL CAPS HAVE BEEN REPAIRED. BT.3 CAP REPAIR NEAR THE RIGHT END IN SPAN 4 HAS RUST STAIN BLEEDING THRU. (PHOTO)
36c	F	(CONC. PILES) NUMERIOUS PILES REPAIRED PER CONTRACT IN PROGRESS @ TIME OF INSPECTION. PILE 4 @ BT.3 PATCHED & VERTICALLY CRACKED WITH RUST STAINS. (PHOTO) PILE 2 @ BT.34 PATCHED, CRACKED & DELAMINATED @ THE NE CORNER. (PHOTO) SEVERAL PILES HAVE PATCHES AT CORNERS WITH RUST STAINS.
36d	G	(CONC RETAINING WALLS) PILE ENCASEMENTS SEE SKETCH. H/L TO 1/16" CRACKS NOTED.
37a	G	(STEEL CRUTCHBENT @ BT.40) STEEL CRUTCHBENT CAP REPLACED SINCE THE LAST INSPECTION WITH STEEL BEARING PLATES. (PHOTO) ORIGINAL STEEL CRUTCHBENT STILL IN PLACE.

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways	<h2 style="margin: 0;">FIELD INSPECTION REPORT</h2> <p style="margin: 0;"><u>Bridge Inspeccion & Analysis</u></p>	
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Team Leader **BG LITTLETON, JR.**

Assisted By **PDI**

Item No.	Grade	
37b	F	(STEEL CRUTCHBENT PILES @ BT.40) BT.40 REPLACEMENT CRUTCHBENT PILES HAVE PACK RUST ALONG THE FLANGES. (PHOTO)
39	G	(SLOPE PROTECTION) RIP RAP PLACED AT BOTH END BENTS.
41	G	(DRIFT) NO NOTEWORTHY PROBLEMS ABOVE THE WATERLINE.
45c	G	(SCOUR) SEE CURRENT UNDERWATER REPORT.
50	F	(APPROACH ROADWAY) THE WEST APPROACH IS TRANSVERSE CRACKED & UNEVEN. (PHOTO) THE EAST APPROACH HAS TRANSVERSE & LONGITUDINAL CRACKS. ELEVATION IS SLIGHTLY HIGHER THAN ADJACENT DECK CAUSING IMPACT AT SPAN. (PHOTO)
53	G	(UTILITIES) CABLE UTILITIES ALONG THE NORTH & SOUTH SIDES. (PHOTO)
54	F	(RESPONSE TO LIVE LOAD) IMPACT AT SPAN 47 DUE TO APPROACH ELEVATION BEING SLIGHTLY HIGHER THAT ADJACENT DECK.
62	NO	(PRESENT POSTING) NOT POSTED.

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 150033

County CARTERET

Date: 05/10/2011

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	107	WEST APPROACH CRACKED & UNEVEN. EAST APPROACH CRACKED & HIGHER THAN DECK.	
3310 (576)	Maintenance/Repair/Replacement of Standard Bridge Expansion Joints	LF	315	JOINT MATERIAL DETERIORATED, MISSING & FILLED WITH DEBRIS.	
3326 (560)	Maintain Concrete Deck	SF	616	CRACKS & DELAMINATED AREAS IN THE DECK.	
3348 (583)	Maintain Concrete Substructure Components	LF	50	PILE 4 @ BT.3 & PILE 2 @ BT.34 CRACKED & DELAMINATED.	
3354 (582)	Maintain Steel Substructure Components	LF	20	STEEL PILES WITH PACK RUST @ BT.40 CRUTCHBENT.	
3376 (602)	Clean/Wash Bridge Decks	SF	100	DEBRIS ALONG THE LEFT CURB.	

Key



Priority Maintenance Item



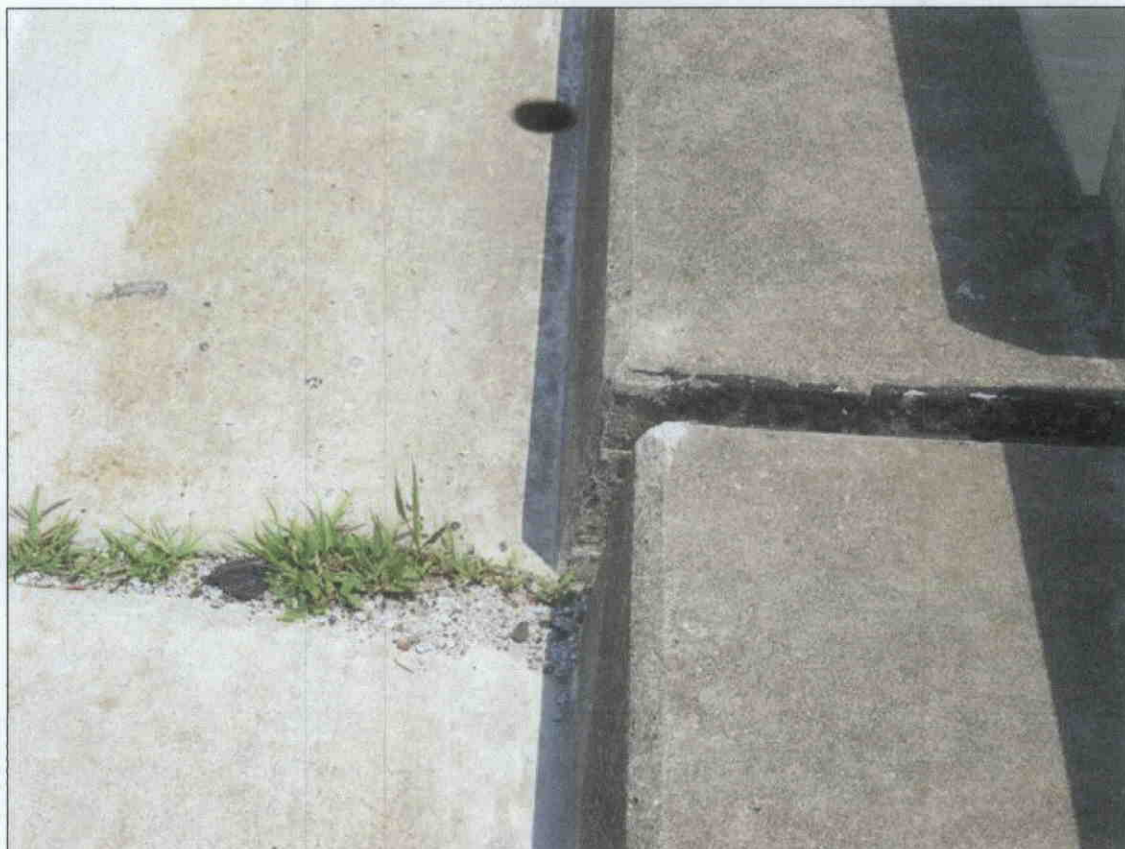
Critical Finding Item



Priority Maintenance Level Not Determined



WEST APPROACH TRANSVERSE CRACKED & UNEVEN.



SPAN 5 DECK MISALIGNED TO THE SOUTH BY 1" @ BT.5.



JOINT MATERIAL MISSING & FILLED WITH DEBRIS @ THE LEFT SHOULDER @ BT.5. SIMILAR @ THE RIGHT SHOULDER & RANDOM BTS.



STANDARD JOINT MATERIAL DETERIORATED & PULLED LOOSE ALONG THE EDGES @ BT.10.



EAST APPROACH TRANSVERSE CRACKED & WEARING SURFACE IS HIGHER THAN THE SPAN 47 DECK CAUSING IMPACT.



SPAN 47 DECK CRACKED & DELAMINATED 6' OUT FROM BT.46 & 4' FROM THE RIGHT EDGE OF DECK.



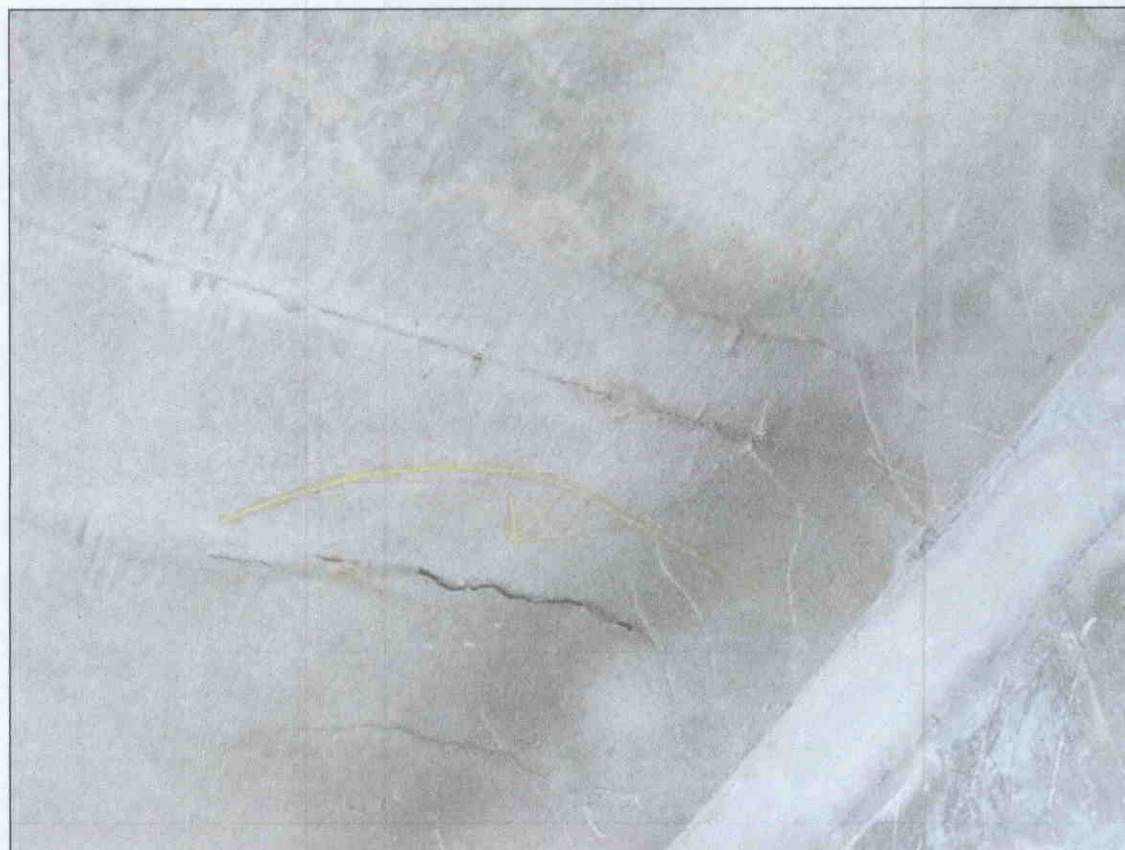
SCATTERED DEBRIS ALONG THE LEFT CURB.



SPAN 6 DECK UNDERSIDE REPAIRED SINCE LAST INSPECTION.



SPAN 12 DECK UNDERSIDE CRACKED & DELAMINATED WITH RUST STAIN 3' OUT FROM BT.11 CAP BETWEEN PILES 3 & 4.



SPAN 15 DECK UNDERSIDE CRACKED & DELAMINATED NEAR BT.14 CAP LEFT OF PILE 3.



SPAN 16 DECK UNDERSIDE CRACKED & DELAMINATED 1-1/2' OUT FROM BT.15 CAP BETWEEN PILES 3 & 4.



SPAN 20 DECK UNDERSIDE CRACKED & DELAMINATED 3' BACK FROM BT.20 CAP BETWEEN PILES 1 & 2.



SPAN 21 DECK UNDERSIDE CRACKED & DELAMINATED 2' OUT FROM BT.20 CAP BETWEEN PILES 3 & 4.



SPAN 29 DECK UNDERSIDE LONGITUDINALLY CRACKED & DELAMINATED 3- 4' BACK FROM BT.28 CAP RIGHT OF PILE 3.



SPAN 30 DECK UNDERSIDE DELAMINATED ALONG THE LEFT EDGE @ MIDSPAN.



SPAN 32 DECK UNDERSIDE REPAIRED SINCE THE LAST INSPECTION.



BT.3 CAP REPAIR NEAR THE RIGHT END IN SPAN 4 HAS RUST STAIN BLEEDING THRU.



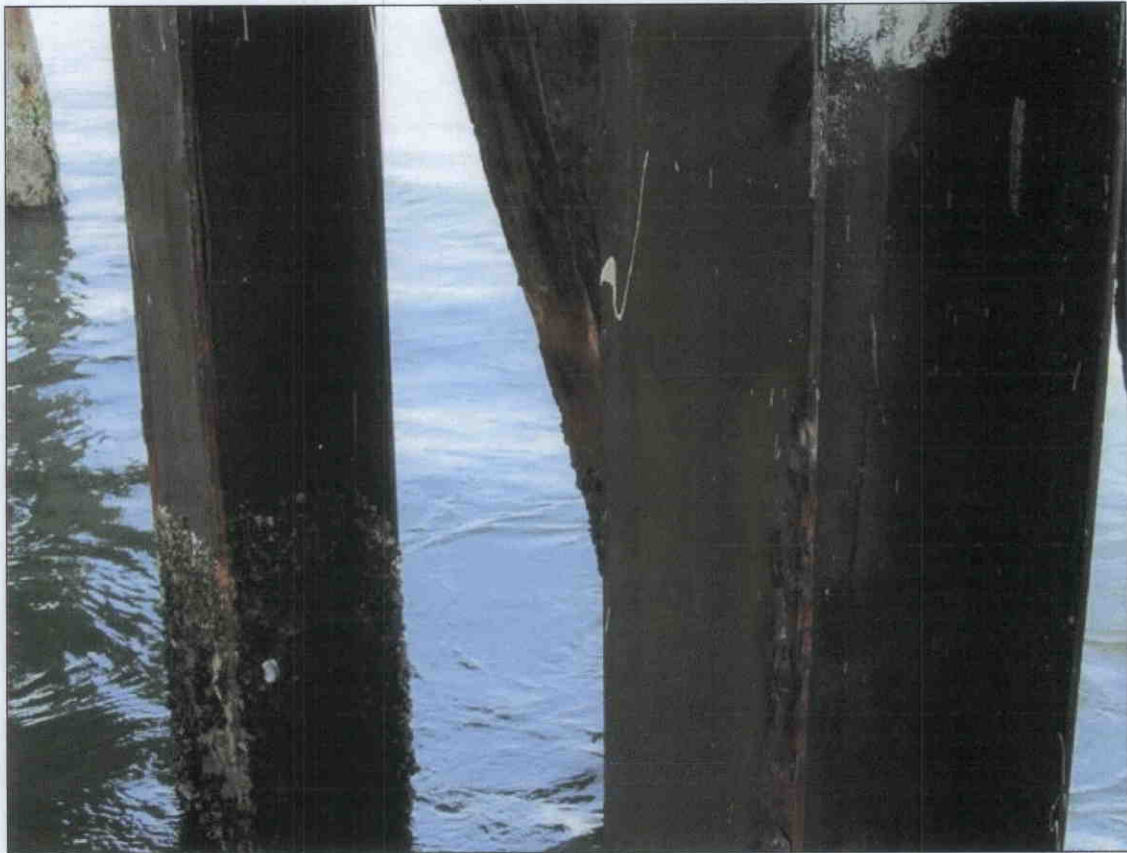
PILE 4 @ BT.3 PATCHED & VERTICALLY CRACKED WITH RUST STAINS.



PILE 2 @ BT.34 PATCHED, CRACKED & DELAMINATED @ THE NE CORNER.



BT.40 REPLACEMENT CRUTCHBENT WITH NEW CAP & STEEL BEARING PLATES @ THE PILE 1 POSITION.



BT.40 REPLACEMENT CRUTCHBENT PILES HAVE PACK RUST ALONG THE FLANGES.



CABLE UTILITY ALONG THE NORTH SIDE.



CABLE UTILITY ALONG THE SOUTH SIDE.

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 05/24/2011

COUNTY : CARTERET DIV : 2 DIST : 2 STRUCTURE NUMBER : 150033 LENGTH : 1028 FEET

ROUTE CARRIED : US70 FEATURE INTERSECTED : NORTH RIVER

LOCATED : 5.5 MI.N.JCT.NC101 BRIDGE NAME : CITY :

FUNC. CLASS : 02 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 9400 2009 RAIL TYPE : LT 111 RT 111

BUILT : 1959 BY : SHC PROJ : 8.12038 FED.AID PROJ : S1156 DESIGN LOAD : H 15

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

NAVIGATION : HT. CRN. TO BED : WATER DEPTH :
VC 0.0 FT HC 0.0 FT 21 FT 10 FT

SUPERSTRUCTURE : CONT.REINFORCED CONCRETE MONOLITHIC SLAB

SUBSTRUCTURE : EBTS&IBT:RC CAP/PPC.PILES W/ STL.CRUTCH BTS.ADDED.

SPANS : 1@23';22@21'9';1@25';22@21'9';1@23' CONT.

BEAMS OR GIRDERS : CONT.REINFORCED CONCRETE MONOLITHIC SLAB

FLOOR : 1.5 RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 31.5 FT

CLEAR ROADWAY : 28.0 FT BETWEEN RAILS : 31.3 FT SIDEWALK OR CURB : LT 1.6 FT RT 1.6 FT

VERT.CL.OVER : 99 FT 99 IN VERT.CL.UNDER : 00 FT 00 IN HOR.CL.UNDER : 0.0 FT

INV.RTG. : HS-1 OPE.RTG. : HS-1 CONTR.MEMBER : MONO SLAB POSTED : SV TTST DATE 06/04/2009

SYSTEM : Primary U.S. Route GREEN LINE ROUTE : A

2ND OPENING : 3RD OPENING : 4TH OPENING : 5TH OPENING :

REMARKS :

Structure Data Worksheet

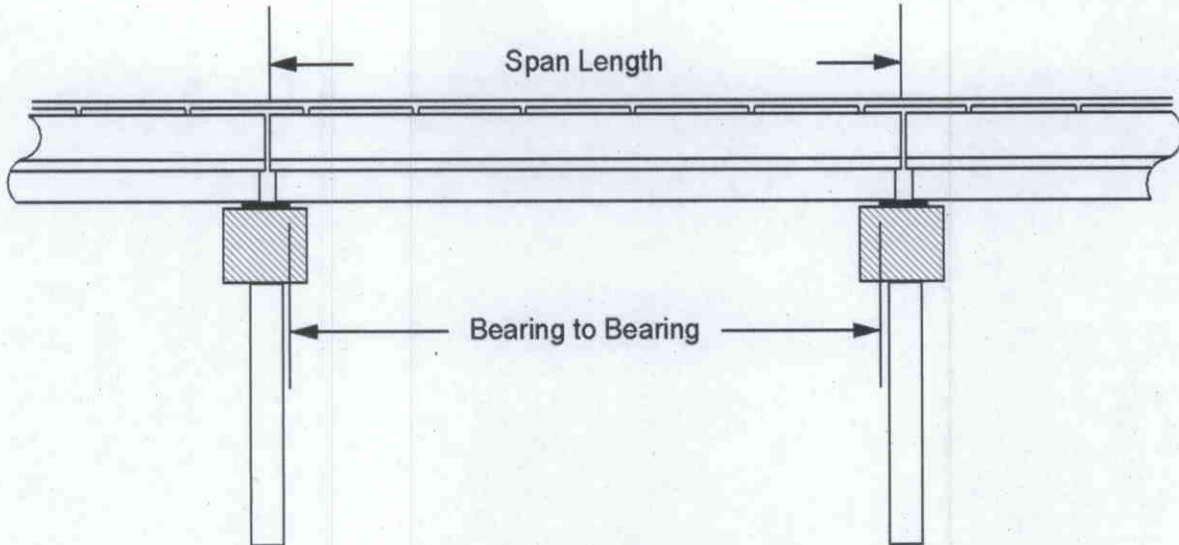
Spans

County: CARTERET

Structure No: 150033

Date: 05/10/2011

Inspected By: BGL



Span No	Span Length	Bearing to Bearing	Comments
1	23 ft.	21.5'	
10	21.75 ft.		
11	21.75 ft.		
12	21.75 ft.		
13	21.75 ft.		
14	21.75 ft.		
15	21.75 ft.		
16	21.75 ft.		
17	21.75 ft.		
18	21.75 ft.		
19	21.75 ft.		
2 THRU 23 & 25 THRU 46	21.75 FT.	21.75'	
20	21.75 ft.		
21	21.75 ft.		
22	21.75 ft.		
23	21.75 ft.		
24	25 ft.	25'	
25	21.75 ft.		
25	21.75 ft.		
26	21.75 ft.		

Span No	Span Length	Bearing to Bearing	Comments
27	21.75 ft.		
28	21.75 ft.		
29	21.75 ft.		
3	21.75 ft.		
30	21.75 ft.		
31	21.75 ft.		
32	21.75 ft.		
33	21.75 ft.		
34	21.75 ft.		
35	21.75 ft.		
36	21.75 ft.		
37	21.75 ft.		
38	21.75 ft.		
39	21.75 ft.		
4	21.75 ft.		
40	21.75 ft.		
41	21.75 ft.		
42	21.75 ft.		
43	21.75 ft.		
44	21.75 ft.		
45	21.75 ft.		
46	21.75 ft.		
47	23 ft.	21.5'	
5	21.75 ft.		
6	21.75 ft.		
7	21.75 ft.		
8	21.75 ft.		
9	21.75 ft.		

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 150033 County: CARTERET Date: 05/10/2011 By: BGL

Record sounding from top of rail. Other location if needed: RAILS

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: TIDAL

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	0		0	0	
1	4	Top of Cap			
23	10.5	BENT 1	23	9.8	BENT 1
32	11.2	WSWE/ SOUTH			
44.75	12.9	BENT 2	44.75	14	BENT 2
66.5	14	BENT 3	66.5	15.7	BENT 3
88.25	15.8	BENT 4	88.25	16.6	BENT 4
110	16.7	BENT 5	110	18	BENT 5
131.75	19.9	BENT 6	131.75	19.2	BENT 6
153.5	20.8	BENT 7	153.5	20.1	BENT 7
175.25	19.8	BENT 8	175.25	19.8	BENT 8
197	19.5	BENT 9	197	20	BENT 9
218.75	19.6	BENT 10	218.75	19.7	BENT 10
240.5	20	BENT 11	240.5	20.3	BENT 11
262.25	19.2	BENT 12	262.25	19.3	BENT 12
284	20.3	BENT 13	284	20.2	BENT 13
305.75	20	BENT 14	305.75	20.2	BENT 14
327.5	21	BENT 15	327.5	19.9	BENT 15
349.25	20.3	BENT 16	349.25	20.2	BENT 16
371	21	BENT 17	371	21.5	BENT 17
392.75	21.6	BENT 18	392.75	22	BENT 18
414.5	23.6	BENT 19	414.5	23.5	BENT 19
436.25	24.8	BENT 20	436.25	25	BENT 20
458	25.3	BENT 21	458	25	BENT 21
479.75	25.3	BENT 22	479.75	25.3	BENT 22

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
501.5	25	BENT 23	501.5	25	BENT 23
514	24.8	C/L CHANNEL SPAN			
526.5	25	BENT 24	526.5	25.3	BENT 24
548.25	25.1	BENT 25	548.25	25.9	BENT 25
570	24.5	BENT 26	570	24.7	BENT 26
591.75	23.7	BENT 27	591.75	23.3	BENT 27
613.5	23	BENT 28	613.5	22.9	BENT 28
635.25	22	BENT 29	635.25	21.9	BENT 29
657	21.5	BENT 30	657	21	BENT 30
678.75	22.7	BENT 31	678.75	22.1	BENT 31
700.5	22	BENT 32	700.5	21.6	BENT 32
722	23	BENT 33	722	22.7	BENT 33
743.75	22	BENT 34	743.75	22	BENT 34
765.5	22	BENT 35	765.5	21.6	BENT 35
787.25	21.8	BENT 36	787.25	21.4	BENT 36
809	20.9	BENT 37	809	20.9	BENT 37
830.75	20.5	BENT 38	830.75	20	BENT 38
852.5	20	BENT 39	852.5	20.2	BENT 39
874.25	19	BENT 40	874.25	20	BENT 40
896	17.4	BENT 41	896	18	BENT 41
917.75	16.9	BENT 42	917.75	17.2	BENT 42
939.5	15.9	BENT 43	939.5	15.9	BENT 43
961.25	14.5	BENT 44	961.25	15.5	BENT 44
983	13.5	BENT 45	983	14	BENT 45
993	11.2	WSWE			
1004.75	10.2	BENT 46	1004.75	10.9	BENT 46
1026.75	4	Top of Cap			
1027.75	0		1027.75	0	

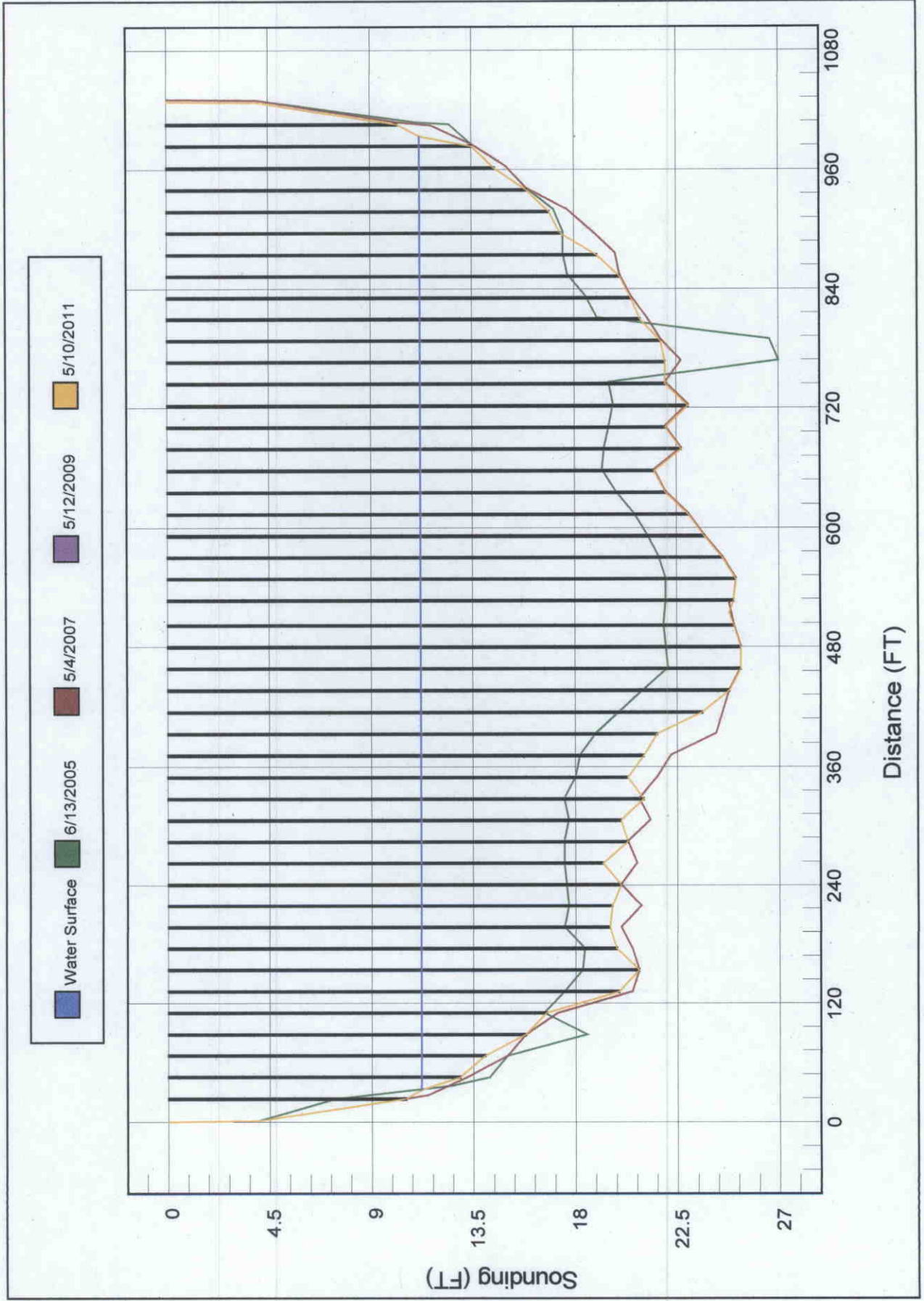
Bridge: 150033

County CARTERET

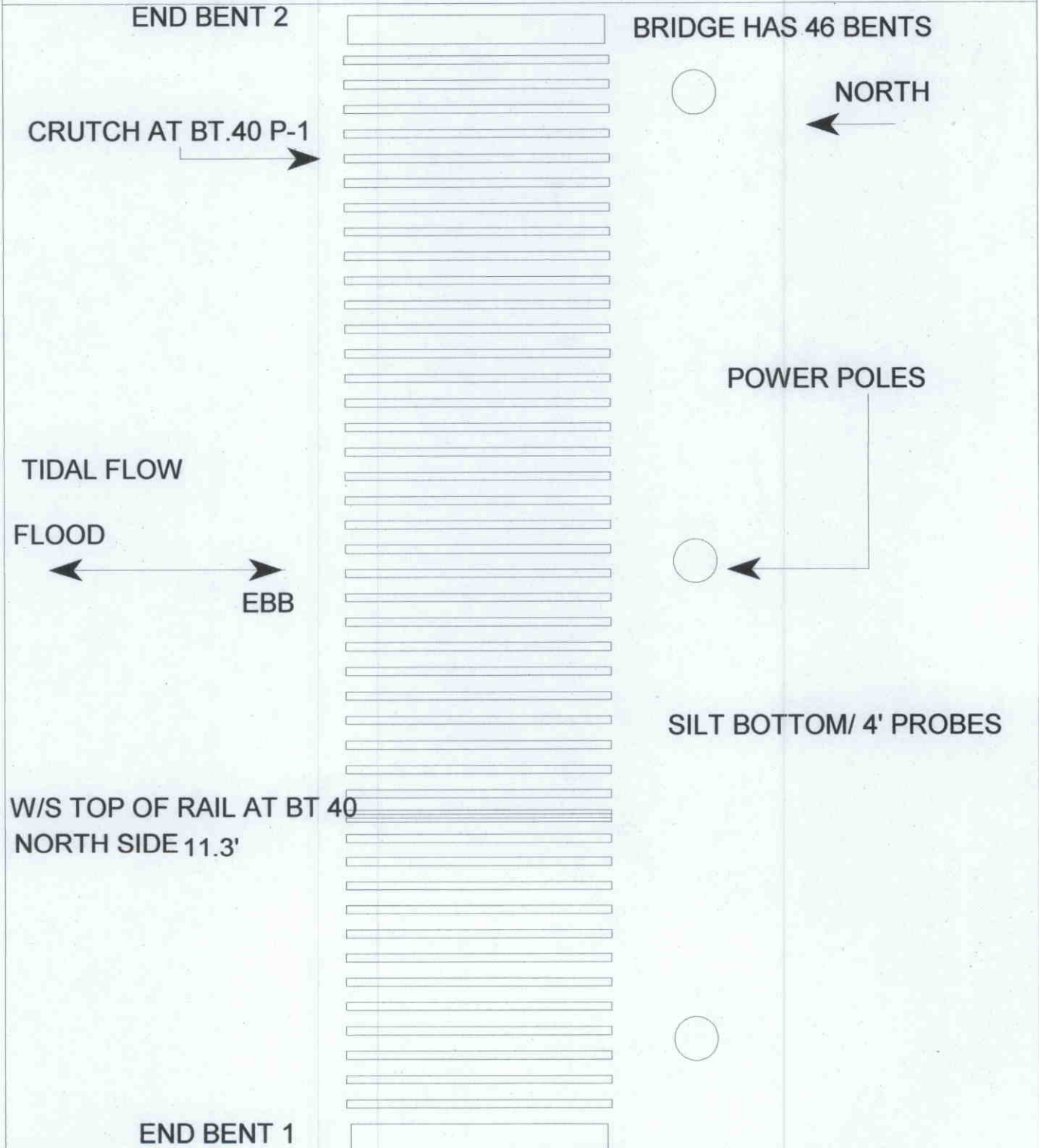
Date: 05/10/2011

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Title PLAN VIEW		Description TOP VIEW	
Bridge No: 150033	Drawn By: PGR/ Reviewed By PDI	Date: 5/12/2009	File Name: S0174012313

Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	Looking East
Left Shoulder	9ft Wide		9ft Unpaved
Right Shoulder	9ft Wide		9ft Unpaved
Left Guardrail			
Right Guardrail			

Title

150033 APPROACH ROADWAY

Description

LOOKING EAST.

Bridge No: 150033

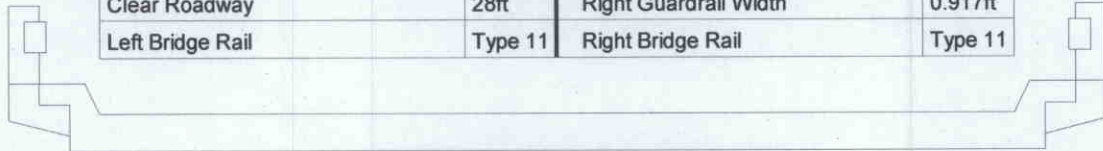
Drawn By: P.D.IPOCK

Date: 5/10/2011

File Name: S0050000884

Bridge Inspection Field Sketch

Deck Width/Out to Out	31.5ft	Wearing Surface	
Between Rails	31.25ft	Median Width	
Curb Height	0.875ft	Median Height	
Top Rail to Deck/Wearing Surface	2.542ft	Left Guardrail Width	0.917ft
Clear Roadway	28ft	Right Guardrail Width	0.917ft
Left Bridge Rail	Type 11	Right Bridge Rail	Type 11



RC MONOLITHIC SLAB

Measurements for Span #	1		
Deck Thickness	1.5	Left Overhang	0.833
Top of Rail to Bottom of Beam	4	Right Overhang	0.833

EXPANSION JOINTS @ BENTS ;5, 10, 15, 20, 23, 24, 27, 32, 37 & 42.

CONSTRUCTION JOINTS @ BENTS ; 2, 7, 12, 17, 30, 35, 40 & 45.

Title

150033 SUPERSTRUCTURE/ SPAN 1

Description

SIMILAR SECTION.

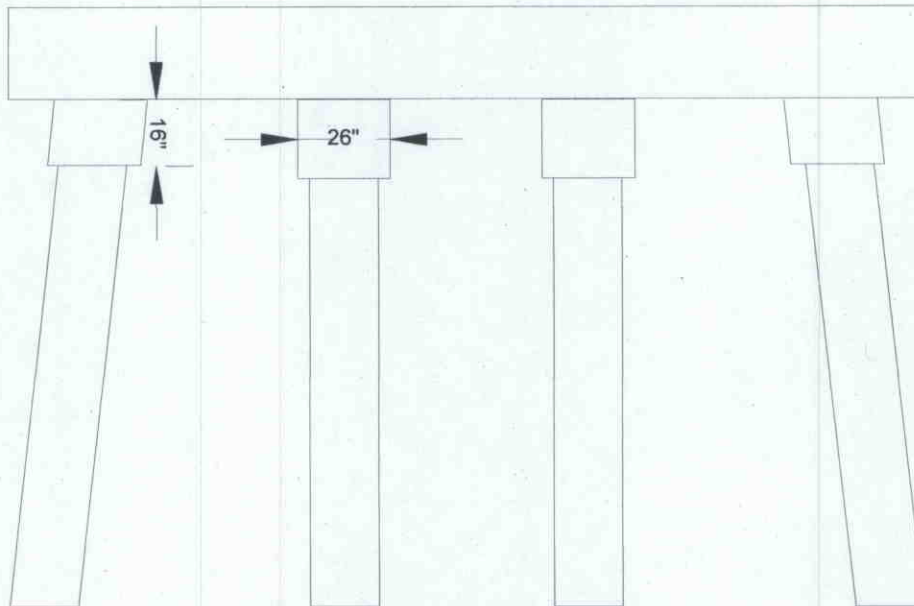
Bridge No: 150033

Drawn By: P.D.IPOCK

Date: 5/10/2011

File Name: S0050000885

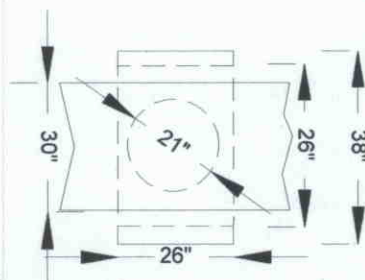
Bridge Inspection Field Sketch



Bent #	1	Bents 46 similar	
Cap - Cast In Place			
Cap Size	29.499ft Long	2.5ft Wide	2.667ft High
Left Overhang	1.875ft	Lt Cap/Beam Overhang	
Right Overhang	1.875ft	Rt Cap/Beam Overhang	

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Prestressed Concrete	Pile Bent	8.583'		21" Conc. Collar		Batter Pile
2	Prestressed Concrete	Pile Bent	8.583'		21" Conc. Collar		Vertical
3	Prestressed Concrete	Pile Bent	8.583'		21" Conc. Collar		Vertical
4	Prestressed Concrete	Pile Bent			21" Conc. Collar		Batter Pile

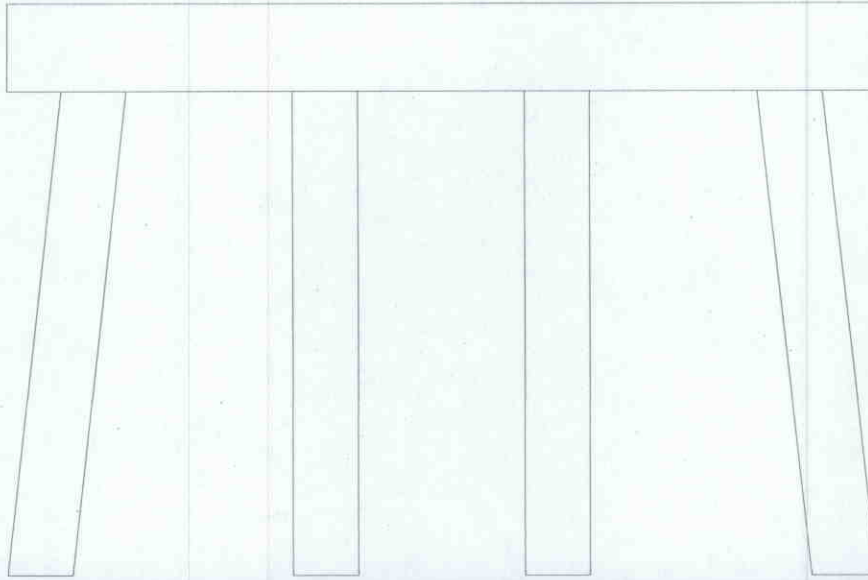
PLAN VIEW OF SIMILAR PEDESTAL



SEE PILE SHEET FOR COLAR/ ENCASED PILES.

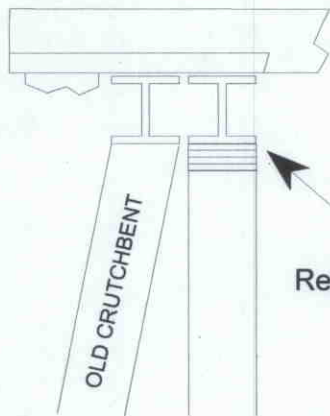
Title		Description	
150033 SUBSTRUCTURE/ #1		BENT 1.	
Bridge No: 150033	Drawn By: P.D.IPOCK	Date: 5/10/2011	File Name: S0050000890

Bridge Inspection Field Sketch



Bent # 2	Bents 3,4,6,7,8,9,11,12,13,14,15,16,17,18,19,21,22,25,26,28,29,30,31,33,34,35,36,38,39,40,41,43,45 similar		
Cap - Cast In Place			
Cap Size	29.499ft Long	2.5ft Wide	1.875ft High
Left Overhang	1.875ft	Lt Cap/Beam Overhang	
Right Overhang	1.875ft	Rt Cap/Beam Overhang	

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Prestressed Concrete	Pile Bent	8.583'		12" Square		Batter Pile
2	Prestressed Concrete	Pile Bent	8.583'		12" Square		Vertical
3	Prestressed Concrete	Pile Bent	8.583'		12" Square		Vertical
4	Prestressed Concrete	Pile Bent			12" Square		Batter Pile



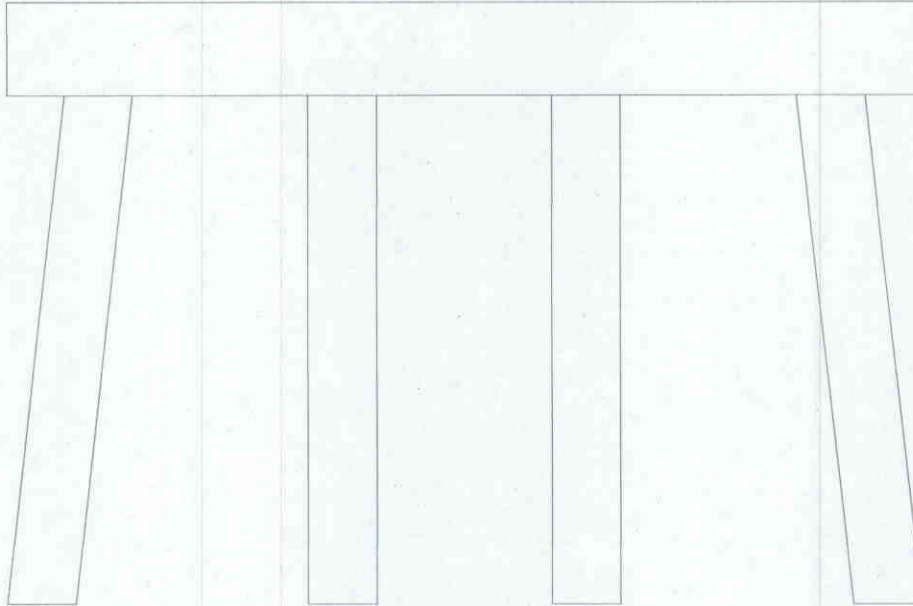
STEEL CRUTCHBENTS AT THE LT END OF BENT 40.
12" X 12" STEEL CAP AND PILES
54" C/L PILE 1 TO PILE 2
CAP LENGTH 77.5"
WEST OVER HANG 4.5" EAST OVER HANG 6"
13" X 13" X 1" STEEL PLATE UNDER CRUTCHBENT CAP
CRUTCHBENT 68" LT OF PILE 2 RIGHT OF ORIGINAL PILE 1.

Replacement CRBT. With New Cap & STL. Shims

SEE PILE SHEET FOR COLAR/ ENCASED PILES.

Title		Description	
SUBSTRUCTURE/ #2		BENT 2.	
Bridge No: 150033	Drawn By: P.D.IPOCK	Date: 5/10/2011	File Name: S0050000886

Bridge Inspection Field Sketch



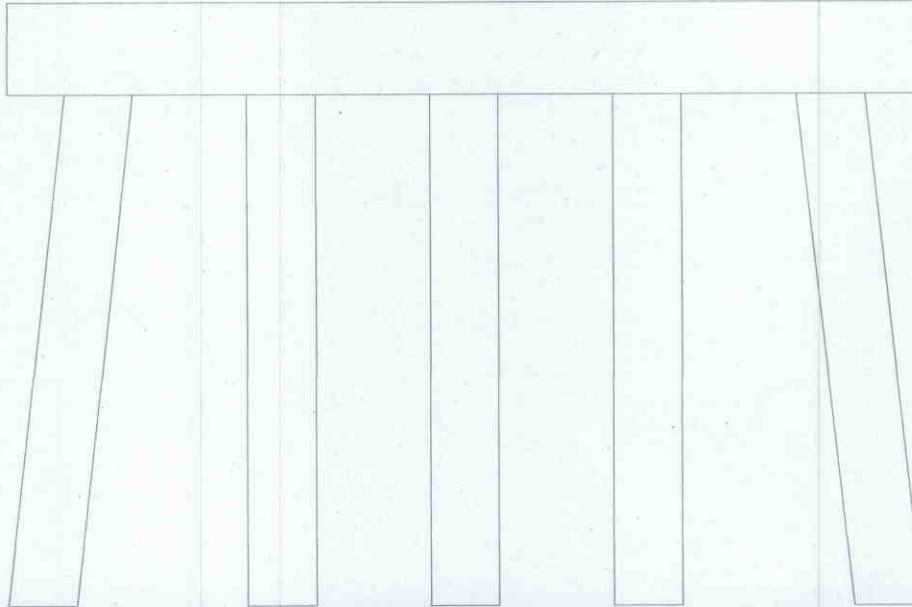
Bent #	5	Bents 10,20,27,32,37,42 similar	
Cap - Cast In Place			
Cap Size	29.499ft Long	2.5ft Wide	2.667ft High
Left Overhang	1.875ft	Lt Cap/Beam Overhang	
Right Overhang	1.875ft	Rt Cap/Beam Overhang	

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Prestressed Concrete	Pile Bent	8.583'		12" Square		Batter Pile
2	Prestressed Concrete	Pile Bent	8.583'		12" Square		Vertical
3	Prestressed Concrete	Pile Bent	8.583'		12" Square		Vertical
4	Prestressed Concrete	Pile Bent			12" Square		Batter Pile

SEE PILE SHEET FOR COLAR/ ENCASED PILES.

Title	Description
150033 SUBSTRUCTURE/ #4	BENT 5.
Bridge No: 150033	Drawn By: P.D.IPOCK
Date: 5/10/2011	File Name: S0050000888

Bridge Inspection Field Sketch



Bent #	23	Bents 24 similar	
Cap - Cast In Place			
Cap Size	29.75ft Long	2.5ft Wide	2.667ft High
Left Overhang	1.875ft	Lt Cap/Beam Overhang	
Right Overhang	1.875ft	Rt Cap/Beam Overhang	

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Prestressed Concrete	Pile Bent	6.5'		12" Square		Batter Pile
2	Prestressed Concrete	Pile Bent	6.5'		12" Square		Vertical
3	Prestressed Concrete	Pile Bent	6.5'		12" Square		Vertical
4	Prestressed Concrete	Pile Bent	6.5'		12" Square		Vertical
5	Prestressed Concrete	Pile Bent			12" Square		Batter Pile

SEE PILE SHEET FOR COLAR/ ENCASED PILES.

Title 150033 SUBSTRUCTURE/ #3	Description BENT 23.
Bridge No: 150033	Drawn By: P.D.IPOCK
Date: 5/10/2011	File Name: S0050000889

Bridge Inspection Field Sketch

IN COASTAL WATERS HTM IS TAKEN AS W/S

HTM= HIGH TIDE MARK		LTM=LOW TIDE MARK		M/L=MUD LINE	W/S =WATER SURFACE	BOF=BOTT. OF FOOTING
BT. #	PILE #	FACE	LOCATION	REMARKS		
2	2	1	12" ABV W/L TO 6" BELOW W/L	H/L TO 1/16"		
2	3	2	18" ABV W/L TO 12" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
2	4	1	36" ABV W/L TO M/L	H/L TO 1/16" W/ RUST STAINS		
2	4	3	36" ABV W/L TO M/L	H/L TO 1/16"		
4	4	1	8" ABV W/L TO 12" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
4	4	1&2	12" BELOW HTM	SPALL 1.5" EACH FACE X 3/4" PENETRATION		
5	1	1	CAP TO 18" BELOW W/L	H/L TO 1/16"		
5	2	1	CAP TO 24" BELOW W/L	H/L TO 1/16"		
6	4	2	HTM TO 6" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
6	4	4	HTM TO 18" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
7	3	2	HTM	1.25" DIAMETER RUST STAIN		
8	3	1&4	5" ABV W/L TO 8" BELOW W/L	H/L TO 1/16" W/ RUST STAINS SPALLED TO 1/8"		
9	2	2	16" ABV W/L TO 13" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
9	4	4	8" ABV W/L TO 14" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
10	1	1	24" ABV W/L TO 24" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
11	1	1	4" ABV W/L TO 18" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
12	2	1	4" ABV W/L TO 18" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
12	4	3&4	TIDAL ZONE	DELAM. 1/16"		
14	1	2	8" ABV W/L TO 12" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
15	1	1	14" ABV W/L TO 24" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
16	1	2	3" ABV W/L TO 6" BELOW W/L	H/L W/ 2.5" DIAMETER RUST STAIN		
16	2	3&4	HTM TO M/L	H/L TO 1/16" W/ SPALL 3"WX4"LX1.5" PENET.		
16	4	3&4	24" BELOW HTM	SPALL 2" EACH FACE X 2" PENET. X 16" VERT.		
24	2	3&4	12" BELOW HTM	SPALL 5" F-3&4" F-4 X 2" PENET. X 20" VERT. REINFORCING CABLE EXPOSED W/ RUST 3"		
24	5	2&3	12" BELOW HTM	SPALL 4" F-3&4" F-4 X 2" PENET. X 18" VERT. 2 REINFORCING CABLES EXPOSED W/ RUST 3"		
24	4	1&2	25" BELOW HTM	SPALL 2" EACH FACE X 1" PENET. X 5" VERT.		
26	2	1	18" ABV W/L TO 18" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
26	2	1&4	4' ABOVE M/L	SPALL 2.5" EACH FACE X 2.5" PENET. X 5" VERT. REINFORCING CABLE EXPOSED W/ RUST 3"		
29	2	1&4	20" BELOW HTM	SPALL 1.5" EACH FACE X 1" PENET. X 5" VERT.		
29	2	1&2	20" BELOW HTM	SPALL 3" EACH FACE X 2.5" PENET. X 10" VERT. 2 REINFORCING CABLES EXPOSED W/ RUST 3"		
Title				Description		
CRACK SHEET 1				CS 1		
Bridge No: 150033		Drawn By: WRM		Date: 9/27/2007		File Name: S0178000498

Bridge Inspection Field Sketch

IN COASTAL WATERS HTM IS TAKEN AS W/S

HTM= HIGH TIDE MARK		LTM=LOW TIDE MARK		M/L=MUD LINE	W/S =WATER SURFACE	BOF=BOTT. OF FOOTING
BT. #	PILE #	FACE	LOCATION	REMARKS		
29	2	2&3	20" BELOW HTM	SPALL 3" EACH FACE X 2" PENET.X 10" VERT. REINFORCING CABLE EXPOSED W/ RUST 4"		
30	1	1&2	20" BELOW HTM	SPALL 3" EACH FACE X 2" PENET.X 10" VERT. REINFORCING CABLE EXPOSED W/ RUST 4"		
32	1	2&3	10" BELOW HTM	SPALL 1" EACH FACE X 1" PENET.X 6" VERT.		
32	2	2	3' ABOVE M/L	SPALL 3" EACH FACE X 1.5" PENET.X 6" VERT.		
34	4	3&4	1' ABOVE M/L	SPALL 3" EACH FACE X 1.5" PENET.X 5" VERT.		
35	4	1&2	18" BELOW HTM	SPALL 1" EACH FACE X 1.5" PENET.X 6" VERT.		
36	1	2&3	8" BELOW HTM	SPALL 3" EACH FACE X 1" PENET.X 14" VERT.		
37	1	4	HTM DOWN 12"	H/L TO 1/16"		
37	4	1&4	4' ABOVE M/L	SPALL 3" EACH FACE X 2" PENET.X 6" VERT. REINFORCING CABLE EXPOSED W/ RUST 3"		
38	3	2	12" ABV W/L TO 12" BELOW W/L	H/L TO 1/8" W/ RUST STAINS		
39	1	1&2	16" BELOW HTM	SPALL 4" EACH FACE X 2" PENET.X 10" VERT. REINFORCING CABLE EXPOSED W/ RUST 4"		
39	1	2&3	16" BELOW HTM	SPALL 3" EACH FACE X 2" PENET.X 6" VERT. REINFORCING CABLE EXPOSED W/ RUST 3"		
41	1	2&3	22" BELOW HTM	SPALL 1.5" EACH FACE X 1" PENET.X 5" VERT.		
41	2	1&2	25" BELOW HTM	SPALL 2" EACH FACE X 1" PENET.X 4" VERT.		
41	2	2&3	25" BELOW HTM	SPALL 2" EACH FACE X 1" PENET.X 4" VERT.		
41	2	1&4	25" BELOW HTM	SPALL 3" EACH FACE X 2" PENET.X 4" VERT. REINFORCING CABLE EXPOSED W/ RUST 2"		
41	3	2&3	25" BELOW HTM	SPALL 2" EACH FACE X 1.5" PENET.X 6" VERT.		
41	3	1	25" BELOW HTM	SPALL 4"W X 3" VERT. X .5" PENETRATION		
41	3	1	25" BELOW HTM	H/L TO 1/16" W/ RUST STAINS		
41	4	2	30" BELOW HTM	SPALL 2.5" DIAMETER X 1.5" PENETRATION		
42	1	3	24" ABV W/L TO 24" BELOW W/L	H/L TO 1/8" W/ RUST STAINS		
42	3	2&3	25" BELOW HTM	SPALL 2" EACH FACE X 3/4" PENET.X 5" VERT.		
42	3	3&4	25" BELOW HTM	SPALL 3" EACH FACE X 3/4" PENET.X 5" VERT.		
43	3	1&2	16" BELOW HTM	SPALL 3" EACH FACE X 1" PENET.X 10" VERT. REINFORCING CABLE EXPOSED W/ RUST 6"		
43	4	1	4" ABV W/L TO 24" BELOW W/L	H/L TO 1/16" W/ RUST STAINS		
44	2	3&4	25" BELOW HTM	SPALL 3" EACH FACE X 2" PENET.X 6" VERT. REINFORCING CABLE EXPOSED W/ RUST 3"		

Title
CRACK SHEET 2

Description
CS 2

Bridge No: 150033

Drawn By: WRM

Date: 9/27/2007

File Name: S0178000499

Bridge Inspection Field Sketch

Bents; Pile 1 Pile 2 Pile 3 Pile 4 Pile 5

BT.1	RC	RC	RC	RC	
BT.2	RC				
BT.3	RC				
BT.4					
BT.5					
BT.6				RC	
BT.7	RC		SC	SC	
BT.8			SC	SC	
BT.9	RC	SC		SC	
BT.10	SC	RC		SC	
BT.11	SC	RC	RC	SC	
BT.12		SC		SC	
BT.13		RC		RC	
BT.14	SC	RC			
BT.15	SC	RC		RC	
BT.16	SC	SC			
BT.17	RC		RC		
BT.18	RC				
BT.19	RC			RC	
BT.20	RC	RC	RC		
BT.21			RC		
BT.22	SC			SC	
BT.23	SC				

RC; ROUND COLLAR
 SC; SQUARE COLLAR
 PW; PILE WRAP

Title
 150033 PILE ENCASEMENT DATA PAGE 1

Description
 ENCASEMENTS & PILE WRAPS.

Bridge No: 150033

Drawn By: PD IPOCK

Date: 5/11/2011

File Name: S0050003082

Bridge Inspection Field Sketch

Bents;	Pile 1	Pile 2	Pile 3	Pile 4	Pile 5	
BT.24						RC; ROUND COLLAR
BT.25	RC					SC; SQUARE COLLAR
BT.26	SC		PW	SC		PW; PILE WRAP
BT.27						CRBT; CRUTCHBENT
BT.28						
BT.29				SC		
BT.30						
BT.31			RC	RC		
BT.32						
BT.33	RC			RC		
BT.34						
BT.35						
BT.36						
BT.37						
BT.38						
BT.39						
BT.40	CRBT					
BT.41						
BT.42						
BT.43						
BT.44	RC					
BT.45						
BT.46	RC	RC	RC	RC		

Title
150033 PILE ENCASEMENT DATA PAGE 2

Description
ENCASEMENTS & PILE WRAPS

Bridge No: 150033

Drawn By: PD IPOCK

Date: 5/11/2011

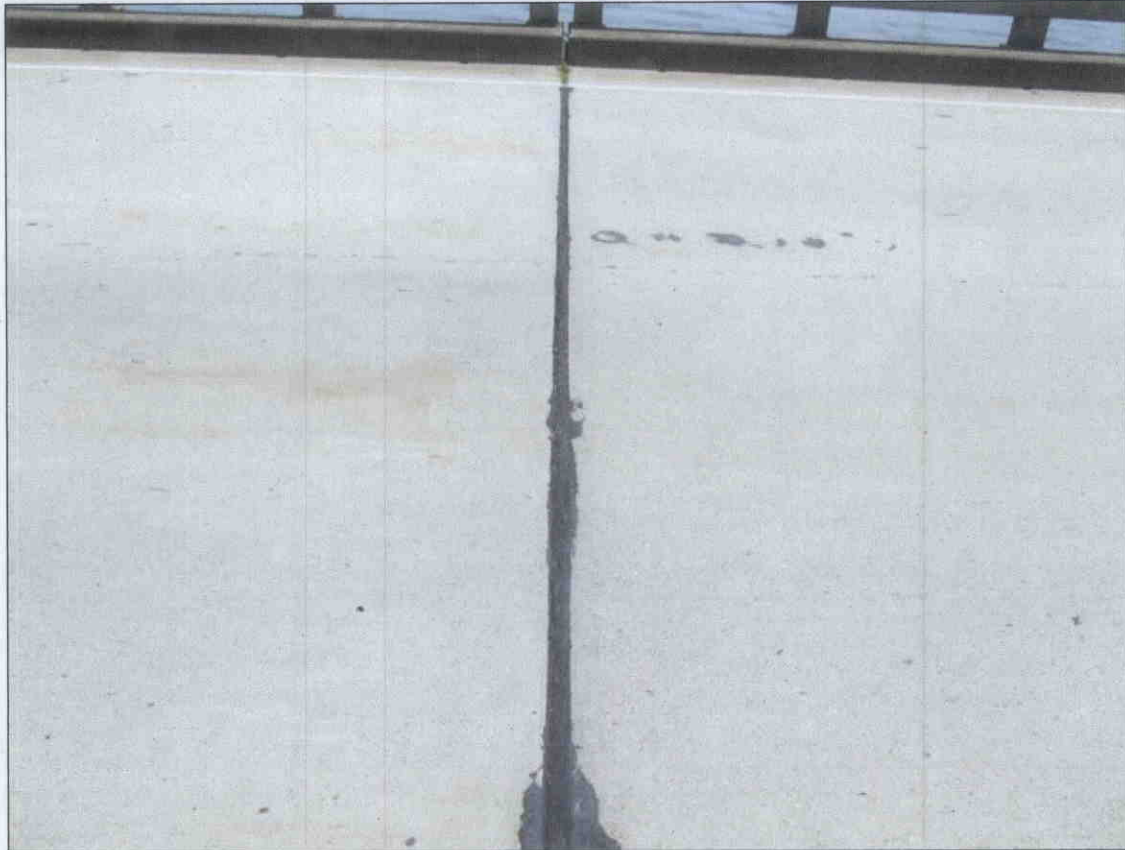
File Name: S0050003083



LOOKING EAST, US70.



LOOKING EAST



STANDARD JOINT @ BT.5. SEE DATA SHEET.



UPSTREAM NORTH



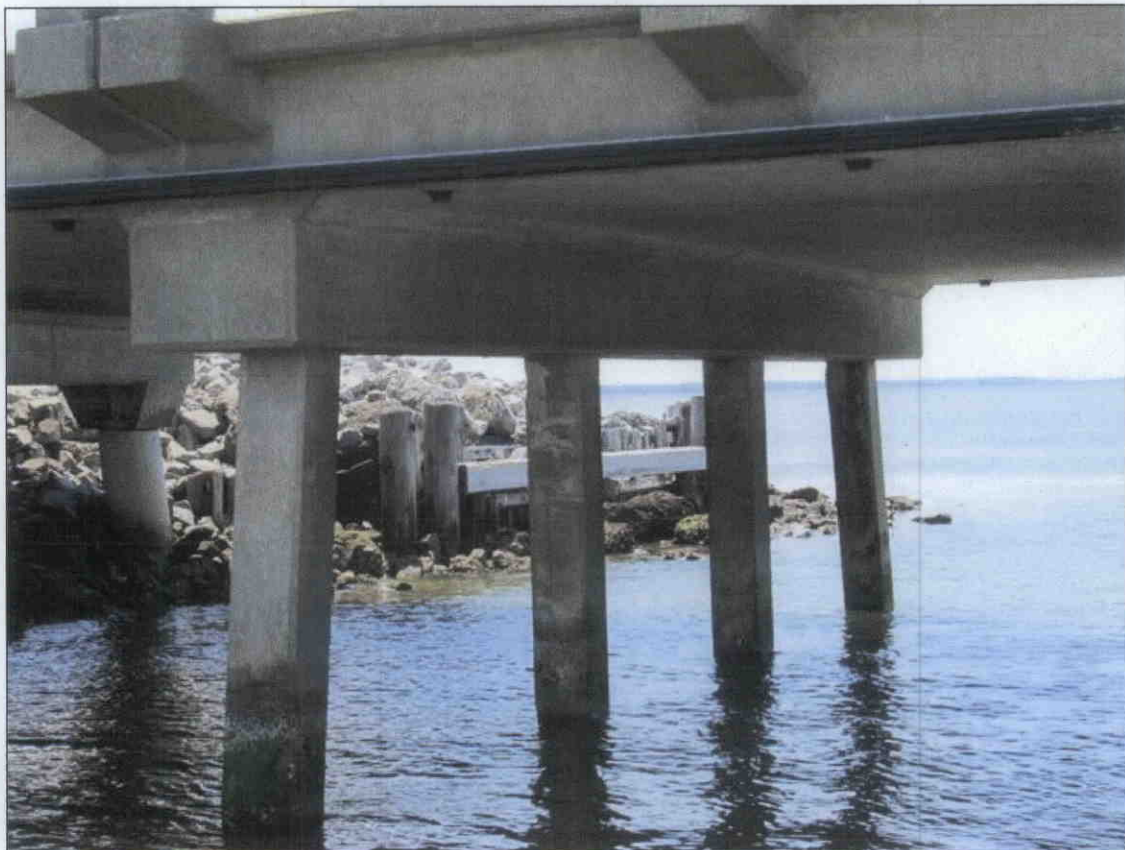
DOWNSTREAM SOUTH



LOOKING SOUTH, US70.



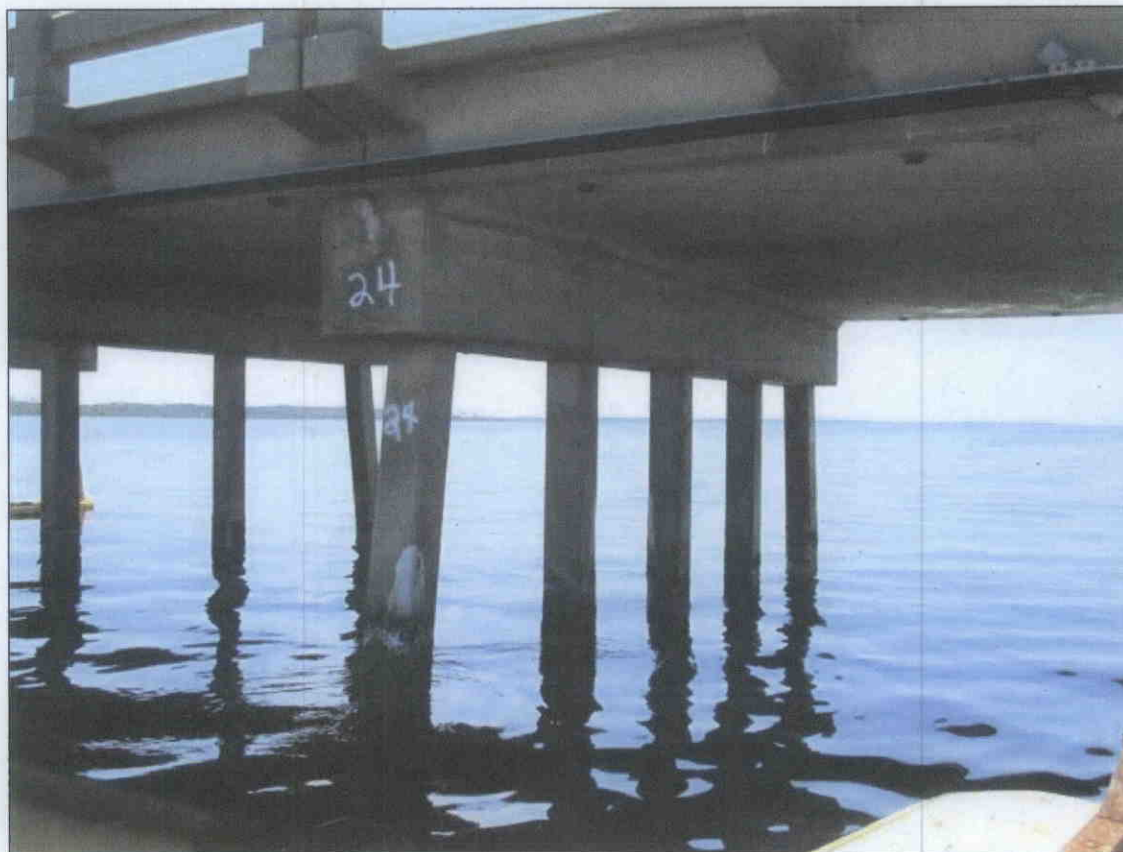
SPAN 46 SIDE OF BT.46. BT.1 SIMILAR.



SPAN 45 SIDE BT.45. SEE DATA SHEET.



SPAN 42 SIDE OF BT.42. SEE DATA SHEET.



SPAN 24 SIDE OF BT.24. BT.23 SIMILAR.



SPAN 6 UNDERSIDE. SIMILAR IN ALL SPANS.



NORTH SIDE, LOOKING EAST.



EBT.1. EBT.2 SIMILAR.