



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE ISSUED ON BROKEN ANCHOR BOLTS AND SPALLED CAP

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY JOHNSTON BRIDGE NUMBER 500082 INSPECTION CYCLE 2 YRS
ROUTE 195 NBL ACROSS BLACK CREEK M.P. 90500

LOCATION 0.8MI N JCT US301/70

SUPERSTRUCTURE RC FLOOR/I-BEAMS

SUBSTRUCTURE EBTS:RC CAP H-PILES;INT.BTS.RCP&BEAM

SPANS 1 @ 50'3;2 @ 50'0;1 @ 51'6

LONGITUDE 78° 22' 48.4" LATITUDE 35° 28' 0.4"

PRESENT CONDITION FAIR INVENTORY RATING _____

INSPECTION DATE 04/09/2010 OPERATING RATING _____

PRESENT POSTING Not Posted PROPOSED POSTING _____

COMPUTER UPDATE _____ ANALYSIS DATE _____

POSTING LETTER DATE _____ SUFFICIENCY RATING _____

OTHER SIGNS PRESENT 2 DELINEATORS SOUTH END ONLY



LOOKING NORTH

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: 06/08/2010

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 500082
 (8) STRUCTURE NUMBER(FEDERAL) 000000001010082
 INVENTORY ROUTE (ON/UNDER) - ON 111000950
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 4
 (3) COUNTY CODE 101 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - BLACK CREEK
 (7) FACILITY CARRIED I95 NBL
 (9) LOCATION 0.8MI N JCT US301/70
 (11)MILEPOINT 90500
 (16)LAT 35° 28' 0.4" (17)LONG 78° 22' 48.4"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 68.9
 STATUS = Not Deficient

CLASSIFICATION **CODE**

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM NHS Route 1
 (26) FUNCTIONAL CLASS - Arterial - Interstate 01
 (100)STRAHNET HIGHWAY - Interstate STRAHNET Route 1
 (101)PARALLEL STRUCTURE - Right Parallel Structure R
 (102)DIRECTION OF TRAFFIC - 1-way Traffic 1
 (103)TEMPORARY STRUCTURE - Not Temporary
 (110)DESIGNATED NATIONAL NETWORK - Is Part of 1
 (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: Steel
 TYPE - Stringer Mutlibeam or Girder CODE 302
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (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 - Bituminous CODE 6
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION **CODE**

(58) DECK 5
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 5
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD HS 20+MOD 6
 (64) OPERATING RATING - HS-34 161
 (66) INVENTORY RATING - HS-21 137
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1958
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Waterway CODE 15
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 18500
 (30) YEAR OF ADT 2008 (109) TRUCK ADT PCT 23 %
 (19) BYPASS OR DETOUR LENGTH 1 MI

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES,VERTI & HORIZ N
 (71) WATERWAY ADEQUACY 8
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0111
 (11)SCOUR CRITICAL BRIDGES 8

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 52 FT
 (49) STRUCTURE LENGTH 202 FT
 (50)CURB OR SIDEWALK: LEFT 0.0 FT RIGHT 0.0 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 28.3 FT
 (52) DECK WIDTH OUT TO OUT 31.5 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 38.0 FT
 (33) BRIDGE MEDIAN - Open Median CODE 1
 (34) SKEW 0° (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.3 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 230 FT
 (94) BRIDGE IMPROVEMENT COST \$747,000
 (95) ROADWAY IMPROVEMENT COST \$187,000
 (96) TOTAL PROJECT COST \$1,121,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 2007
 (114)FUTURE ADT 37000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 04/09/2010
 (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 - Not Applicable CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0
 (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 500082 COUNTY JOHNSTON ROUTE I95 NBL OVER BLACK CREEK
 STRUCTURE TYPE RC FLOOR/I-BEAMS
 ROUTE ORIENTATION S - N SPANS 1 @ 50'3;2 @ 50'0;1 @ 51'6

EVALUATION CODE: 0-2 CRITICAL, 3 & 4 POOR, 5 & 6 FAIR, 7-9 GOOD

INSPECTION ITEM				ITEM 61			
DECK ITEMS			GRADES				
1. WEARING SURFACE			7	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	8	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58			5		b. ALIGNMENT	8	
a. CONCRETE	4		c. SCOUR		8		
b. TIMBER			d. SLOPE PROT., RIP-RAP, DIKES, ETC.		7		
3. RAILING			5	50. APPROACH ROADWAY CONDITION			7
a. CONCRETE			5	51. APPROACH SLABS			
b. TIMBER				52. PAINT SYSTEM CODE A			5
c. ALUMINUM				53. UTILITIES			
d. STEEL		5		54. RESPONSE TO LIVE LOAD			8
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			6	55. ESTIMATED REMAINING LIFE			10
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED			NO
6. DECK EXP JTS. OR DEVICES. NO. OF EACH				61. PROMPT-ACTION NOTICE ISSUED			YES
a. STEEL PL OR FINGER				62. PRESENTLY POSTED			NO
b. MISC PREFAB				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			6
c. COMPRESSION SEAL				64. TOTAL SNOOPER INSP. TIME (HRS)			0
d. STANDARD JOINTS	5	5		65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0
e. OPEN JOINTS							
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			7	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			6	b. SUPERSTRUCTURE	ITEM 59	6	
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			5	71. SI&A FIELD APPRAISAL RATINGS			
14. FLOOR BEAMS AND CONNECTIONS				a. WATERWAY ADAQUACY		7	
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			5	b. APPR. RDWY. ALIGNMENT		8	
16. DRAINAGE SYSTEM (ON STRUCTURE)			6	72. FIELD SCOUR EVALUATION			G
17. MOVABLE SPAN MACHINERY							
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)				USE OF INSP. ACCESSIBILITY EQUIPMENT			
35. TIM SUB STR.				SNOOPER (CODE S, 4, OR N)			HRS NO
a. ABUT. & INT. BENT CAPS & RISERS				LADDER			YES
b. PILES, POST, SILLS, & BRACING				BUCKET TRUCK			NO
c. BULKHEADS, WING'S, & TIE BACKS				BOAT			NO
36. CONC SUB STR.				OTHER			NO
a. ABUT. & INT. BENT CAPS	5						
b. ABUT. & BENT COL'S BREASTWALLS	6						
c. ABUT. & INT. BENT PILES							
d. BACKWALLS, WING'S, RETAIN. WALLS	6						
e. ABUT. & BENT FOOTINGS & SILLS							
37. STEEL SUB STR.				SPECIAL INSPECTION REQUESTED FOR			
a. ABUT. & INT. BENT CAPS & RISERS							
b. PILES, BRACING, AND BULKHEADS							
38. FOUNDATION PILES TYPE MATERIAL				NOTE			
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)			6				
40. FENDER SYSTEMS				80. INSPECTED BY:	<i>William C. Moy</i>		
41. DRIFT			8	81. REVIEWED BY:			

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 WILLIS C MAY			
Assisted By WTW			
Item No.	Grade		
2a	5	CONCRETE DECK 5 RANDOM TRANSVERSE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK OF ALL SPANS. TRANSVERSE CRACKS WITH EFFLORESCENCE IN BOTTOM OF OVERHANGS.	
3a	5	CONCRETE RAILS 5 SPALLING AT RAIL POST BASE # 5 WITH REBAR EXPOSED IN SPAN 3 AT BENT 3 LEFT SIDE WITH 1/4 IN. WIDE CRACK IN RAIL AT EACH SIDE OF POST. RAIL IS BOWED OUT 1/2 IN. AT THIS LOCATION. SCATTERED TRANSVERSE HAIRLINE CRACKS AT EACH SPAN .	
3d	5	STEEL RAILS 5 40 FT. OF GUARDRAIL DAMAGE AT LEFT SIDE OF SPAN 2. 60 FT. OF GUARDRAIL DAMAGE AT RIGHT SIDE OF SPAN 2 AND SPAN 3. 20 FT. OF GUARDRAIL DAMAGE AT THE RIGHT SIDE OF SPAN 4.	
4	6	CURBS 6 SCALING WITH EXPOSED COARSE AGGREGATE IN FACES. RANDOM TRANSVERSE HAIRLINE CRACKS ON TOPS OF CURBS.	
6d	5	STANDARD JOINTS 5 JOINTS ARE LEAKING.	
10	6	LONGITUDINAL BEAMS 6 SURFACE RUST AND PITTING IN SPOTS THROUGHOUT.	
13	5	END DIAPHRAGMS 5 VERTICAL AND DIAGONAL CRACKS SOME WITH EFFLO LEAKAGE IN DIAPHRAGMS AT ALL INTERIOR BENTS.	
15	5	BEARING ASSEMBLIES 5 RUSTING , FLAKING, AND UP TO 1/8 IN. SECTION LOSS IN FACES OF BEARING ASSEMBLIES . BROKEN ANCHOR BOLT AT LEFT AND RIGHT SIDE OF BEAM 2 SPAN 2 AT BENT 1 AND LEFT SIDE OF BEAM 3 SPAN 2 BENT 1. PRIORITY MAINTENANCE ISSUED	
16	6	DRAIN SYSTEM 6 50 PERCENT OF THE DRAIN HOLES ARE CLOGGED .	
52	5	PAINT SYSTEM 5 SPOTS OF PEELING PAINT THROUGH OUT .	

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 WILLIS C MAY			
Assisted By WTW			
Item No.	Grade		
36a	5	<p>CONCRETE CAPS 5 END BENT 1 RANDOM HAIRLINE VERTICAL CRACKS IN FACE. BENT 1 DELAMINATION AT BENT 1 CAP SPAN 1 SIDE UNDER BEAM 3. HAIRLINE VERTICAL IN FACE OF CAP SPAN 3 SIDE UNDER BEAM 2 . 22 IN. X 48 IN. X 8 IN. DEEP SPALL AT BEAM 3 SPAN 2 SIDE BENT 1 EXTENDING 4 IN. UNDER BEARING PLATE, PLATE IS TILTED AND CRUSHED 1/2 IN. INTO CAP. PRIORITY MAINTENANCE ISSUED END BENT 2 HAIRLINE MAP AND VERTICAL CRACKS IN TOP AND FACE .</p>	
36b	6	<p>CONCRETE COLUMNS 6 BENT 1 COLUMN 1 HONEYCOMBING IN RIGHT CORNER OF SPAN 2 SIDE AND IN LOWER FILLET AT COLUMN 1. COLUMN 2 HONEYCOMBING IN LEFT AND RIGHT CORNER OF SPAN 2 SIDE .</p> <p>BENT 2 COLUMN 2 RIGHT SIDE 1/16 IN. VERTICAL CRACK FROM GROUND LINE UP 8 FT. . BENT 3 HAIRLINE VERTICAL CRACK 2 FT. LONG IN COLUMN 1 .</p>	
36d	6	<p>CONCRETE RETAINING WALLS 6 END BENT 1 HORIZONTAL HAIRLINE CRACKING AT BAY 2 END BENT 1 BACKWALL .</p>	
39	6	<p>SLOPE PROTECTION 6 RIGHT SIDE CONCRETE GUTTER AT END BENT 2 IS CRACKED AND SETTLED 6 IN.</p>	





BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 500082

County JOHNSTON

Date: 04/09/2010

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3318	Maint to Concrete Handrail	LF	10	SPALLING AT RAIL POST BASE # 5 WITH REBAR EXPOSED IN SPAN 3 AT BENT 3 LEFT SIDE WITH 1/4 IN. WIDE CRACK IN RAIL AT EACH SIDE OF POST. RAIL IS BOWED OUT 1/2 IN. AT THIS LOCATION.	
3322	Maint to Steel Handrail	LF	120	GUARDRAIL DAMAGE AT LEFT AND RIGHT SIDE.	
 3334	Bridge Bearings	EA	1	BRIDGE NOT POSTED BROKEN ANCHOR BOLT AT THE LEFT SIDE OF BEAM 2 SPAN 2 AT BENT 1.	
 3334	Bridge Bearings	EA	1	BROKEN ANCHOR BOLT AT THE LEFT SIDE OF BEAM 3 SPAN 2 BENT 1.	
 3334	Bridge Bearings	EA	1	BROKEN ANCHOR BOLT AT THE RIGHT SIDE OF BEAM 2 SPAN 2 BENT 1.	
3342	Clean and Paint Structural Steel	SF	1800	PEELING PAINT WITH SURFACE RUST THROUGH OUT, BEARINGS RUSTY WITH SECTION LOSS IN FACES.	
 3348	Maintain Concrete Substructure Components	LF	4	8 IN. X 22 IN. X 48 IN. SPALL WITH EXPOSED REBAR EXTENDING 4 IN. UNDER BEARING AT BEAM 3 BENT 1 SPAN 2 SIDE. MASONRY PLATE IS TILTED AND CRUSHED INTO CAP 1/2 IN.	
3348	Maintain Concrete Substructure Components	LF	5	HONEYCOMBED AREAS IN COLUMNS 1 AND 2 BENT 1 .	
3376	Clean/Wash Bridge Decks	SF	400	DEBRIS CLOGGING DRAIN HOLES.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500082

County JOHNSTON

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

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA
Location:		
Beams and Girders		Bent/Span No. 2 BEAM 2 ANCHOR BOLT
Priority Level	Status	
Priority Maintenance	SIA Updates in Process	
Submitted Date:	Submitted By:	Assisted By:
04/13/2010	WILLIS C MAY	WAYNE T WILKINSON
Details		
BROKEN ANCHOR BOLT AT THE RIGHT SIDE OF BEAM 2 SPAN 2 BENT 1.		

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA
Location:		
Beams and Girders		Bent/Span No. 2 BEAM 2 ANCHOR BOLT
Priority Level	Status	
Priority Maintenance	SIA Updates in Process	
Submitted Date:	Submitted By:	Assisted By:
04/13/2010	WILLIS C MAY	WAYNE T WILKINSON
Details		
BRIDGE NOT POSTED BROKEN ANCHOR BOLT AT THE LEFT SIDE OF BEAM 2 SPAN 2 AT BENT 1.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500082

County JOHNSTON

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	4 LF
Location:		
Pier Cap		Bent/Span No. 1 BENT 1 CAP SPAN 2 SIDE
Priority Level	Status	
Priority Maintenance	SIA Updates in Process	
Submitted Date:	Submitted By:	Assisted By:
04/13/2010	WILLIS C MAY	WAYNE T WILKINSON
Details		
8 IN. X 22 IN. X 48 IN. SPALL WITH EXPOSED REBAR EXTENDING 4 IN. UNDER BEARING AT BEAM 3 BENT 1 SPAN 2 SIDE. MASONRY PLATE IS TILTED AND CRUSHED INTO CAP 1/2 IN.		

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA
Location:		
Beams and Girders		Bent/Span No. 2 BEAM 3 ANCHOR BOLT
Priority Level	Status	
Priority Maintenance	SIA Updates in Process	
Submitted Date:	Submitted By:	Assisted By:
04/13/2010	WILLIS C MAY	WAYNE T WILKINSON
Details		
BROKEN ANCHOR BOLT AT THE LEFT SIDE OF BEAM 3 SPAN 2 BENT 1.		



BENT STRUTS SCALED WITH COARSE AGGREGATE EXPOSED



BENT COLUMNS SCALED WITH COARSE AGGREGATE EXPOSED UP TO HIGH WATERMARK



HAIRLINE VERTICAL AND DIAGONAL CRACKS WITH EFFLORESCENCE IN SPAN 3 END DIAPHRAGM AT BENT
2



SPALLING WITH EXPOSED REBAR IN GUARDRAIL END POST BASE AT THE LEFT SIDE OF BENT 3 SPAN 3
SIDE



HAIRLINE LONGITUDINAL AND TRANSVERSE CRACKS IN BOTTOM OF DECK OF SPAN 4



HAIRLINE MAP CRACKING IN FACE OF CAP AT END BENT 2 UNDER BEAM 1



PEELING PAINT & SURFACE RUST IN THE BOTTOM OF COVER PLATES FOR BEAMS 2 & 3 IN SPAN 4



PEELING PAINT & SURFACE RUST IN THE RIGHT SIDE BOTTOM FLANGE OF BEAM 4 IN SPAN 4 OUT 10 FT. FROM END BENT 2



TRANSVERSE CRACK IN WEARING SURFACE OVER END BENT 2



LEFT SIDE GUARDRAIL IN SPAN 2 IS CRACKED AND SPALLING FROM IMPACT DAMAGE



IMPACT DAMAGE ALONG THE LEFT SIDE STEEL GUARDRAIL OF SPAN 2



TRANSVERSE CRACK IN WEARING SURFACE OVER END BENT 1



TRANSVERSE CRACK IN APPROACH 1



TWO "HONEYCOMBED" AREAS WITH EXPOSED REBAR IN COLUMN 2 AT BENT 1 SPAN 2 SIDE



HONEYCOMBED AREA IN THE LOWER FILLET OF COLUMN 1 AT BENT 1



SPALL IN BENT 1 CAP SPAN 2 SIDE AT BEAM 3, PHOTO 1 OF 2 (PRIORITY MAINTENACNE ISSUED)



BROKEN ANCHOR BOLT IN THE LEFT SIDE OF BEAM 3 BEARING ASSEMBLY AT BENT 1 SPAN 2 (PRIORITY MAINTENACNE ISSUED)



LAREG SPALL WITH EXPOSED MASONRY PLATE AT BEAM 3 BENT 1 SPAN 2 SIDE, PHOTO 2 OF 2 (PRIORITY MAINTENACNE ISSUED)



BROKEN ANCHOR BOLT IN THE RIGHT SIDE OF BEAM 2 BEARING ASSEMBLY AT BENT 1 SPAN 2 (PRIORITY MAINTENACNE ISSUED)



BROKEN ANCHOR BOLT IN THE LEFT SIDE OF BEAM 2 BEARING ASSEMBLY AT BENT 1 SPAN 2 (PRIORITY MAINTENACNE ISSUED)

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE Run Date: 06/08/2010

COUNTY :	DIV :	DIST :	STRUCTURE NUMBER :	LENGTH :
JOHNSTON	4	3	500082	202 FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
I95 NBL	BLACK CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.8MI N JCT US301/70		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
01	FA	NFA	18500 2008	LT 333 RT 333

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1958	SHC	8.12339		HS 20+MOD

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

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0.0 FT HC 0.0 FT	27 FT	6 FT

SUPERSTRUCTURE : RC FLOOR/I-BEAMS

SUBSTRUCTURE : EBTS:RC CAP H-PILES;INT.BTS.RCP&BEAM

SPANS : 1 @ 50'3";2 @ 50'0";1 @ 51'6"

BEAMS OR GIRDERS : 4 LINES W33X130 I-BEAMS @ 8'0 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
7 RC/4.8 AWS		31.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
28.3 FT	28.3 FT	LT 0.0 FT RT 0.0 FT

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

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	DATE
HS-21	HS-34	BEAM EXT.	SV TTST	

SYSTEM :	GREEN LINE ROUTE :
Primary Interstate	Y

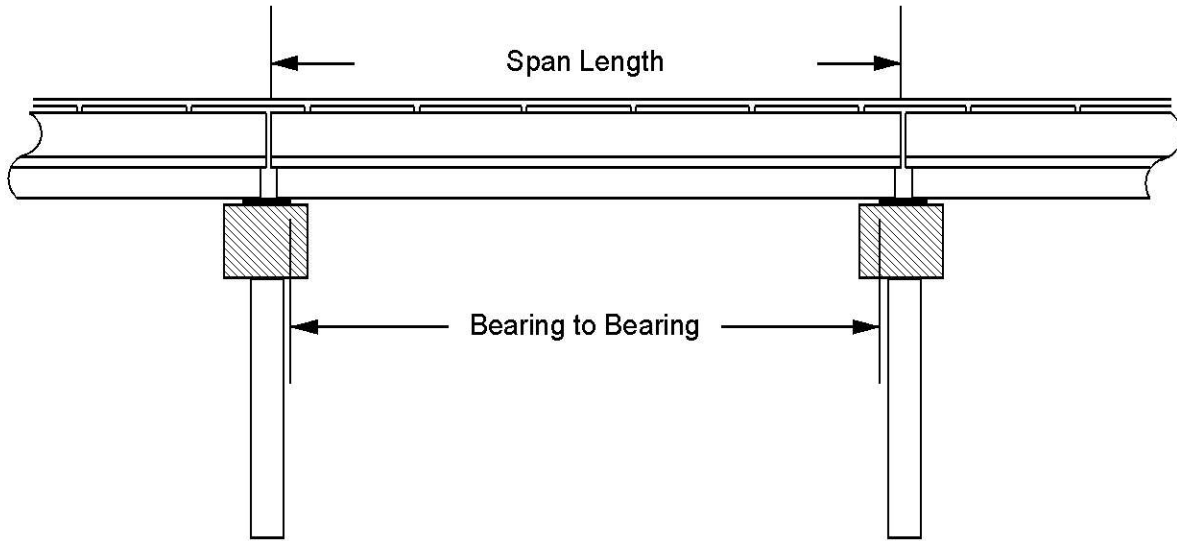
2ND OPENING :	3RD OPENING :	4TH OPENING :	5TH OPENING :

REMARKS :

Structure Data Worksheet

Spans

County: JOHNSTON Structure No: 500082 Date: 04/09/2010 Inspected By: WCM



Span No	Span Length	Bearing to Bearing	Comments
1	50.25	SEE PLANS	
2	50.0		
3	50.0		
4	51.5		

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 500082 County: JOHNSTON Date: 04/09/2010 By: WCM

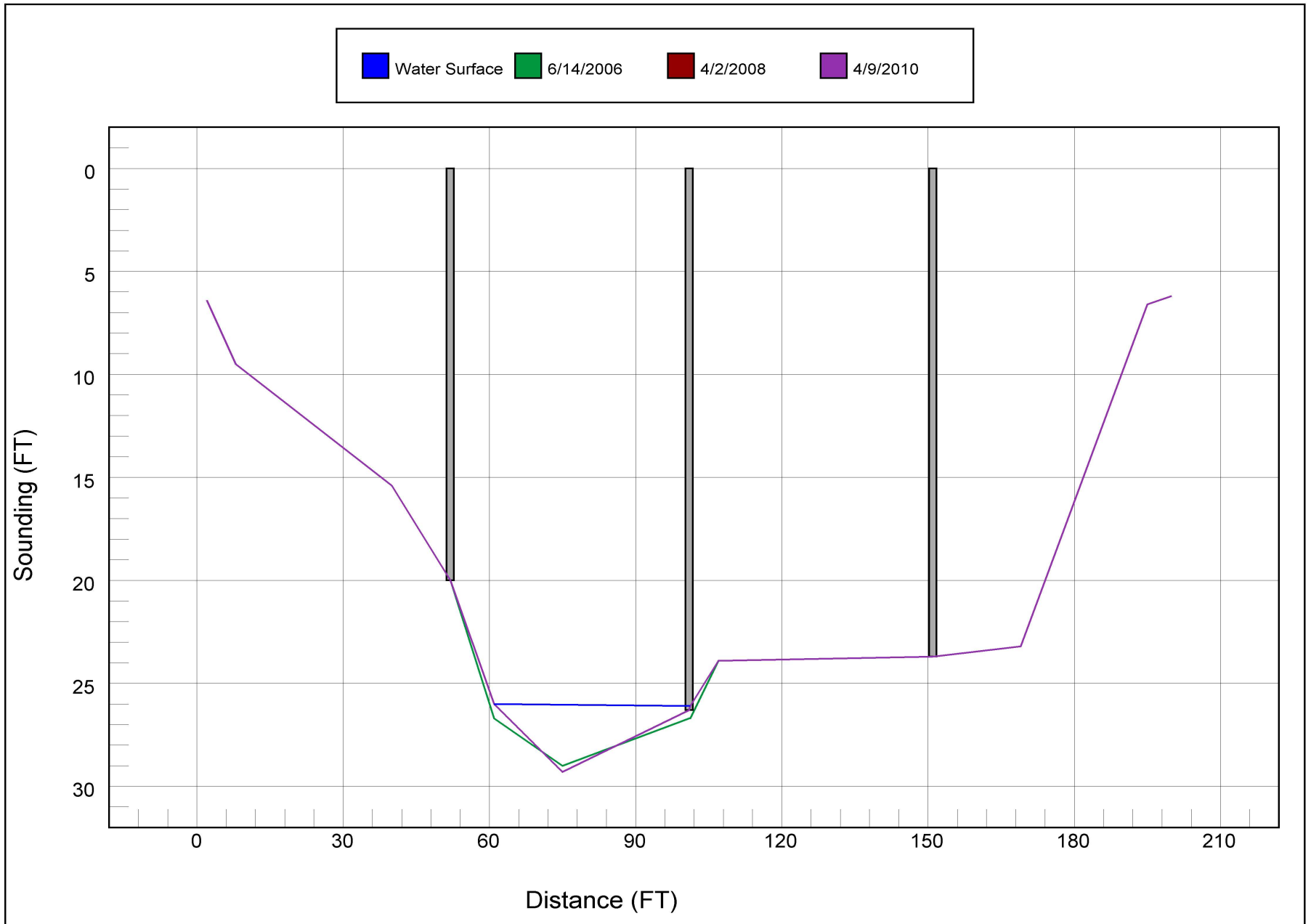
Record sounding from top of rail. Other location if needed: _____

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

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
2	6.4	ABUT.1FILL FACE	2	7.0	FILL FACE E.BT.1
8	9.5				
40	15.4				
52	20	BENT 1	52	26.6	BENT 1
61	26	Water Surface/Water Edge (WSWE)			
75	29.3				
101	26.3	BENT 2	101	27.6	BENT 2
101.2	26.1	Water Surface/Water Edge (WSWE)			
107	23.9				
151	23.7	BENT 3	151	23.1	BENT 3
169	23.2	TOE OF SLOPE			
195	6.6	TOP OF SLOPE	195	6.9	TOP OF SLOPE E.BT.2
200	6.2	E.BT.2FILL FACE			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



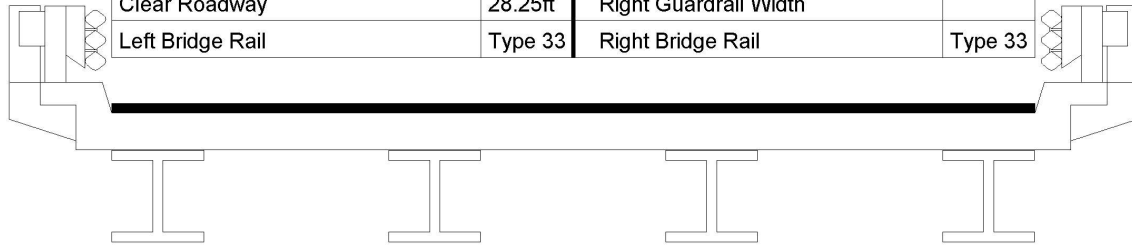
Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4ft Wide	4ft Paved	
Right Shoulder	10ft Wide	10ft Paved	
Left Guardrail			
Right Guardrail			

CHECKED: 4/9/10 WCM

Title APPROACH ROADWAY		Description LOOKING NORTH	
Bridge No: 500082	Drawn By: ERB	Date: 06/14/2006	File Name: S0214000316

Bridge Inspection Field Sketch

Deck Width/Out to Out	31.5ft	Wearing Surface	0.4ft
Between Rails	28.25ft	Median Width	
Curb Height	0.53ft	Median Height	
Top Rail to Deck/Wearing Surface	2.42ft	Left Guardrail Width	
Clear Roadway	28.25ft	Right Guardrail Width	
Left Bridge Rail	Type 33	Right Bridge Rail	Type 33



Measurements for Span #	1		
Deck Thickness	0.583	Left Overhang	3.75
Top of Rail to Bottom of Beam	6	Right Overhang	3.75

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	8ft	
2	Steel I Beam	8ft	
3	Steel I Beam	8ft	
4	Steel I Beam		

CHECKED: 4/9/10 WCM

Title TYPICAL SECTION		Description LOOKING NORTH	
Bridge No: 500082	Drawn By: ERB	Date: 06/14/2006	File Name: S0214000317

Bridge Inspection Field Sketch

Title PLAN VIEW		Description WATERWAY	
Bridge No: 500082	Drawn By: BZC	Date: 7/18/2007	File Name: S0158000431



BENT 1 SPAN 2 SIDE



SUPERSTRUCTURE OVERVIEW, ALL SPANS SIMILAR



BENT 2 SPAN 3 SIDE



BENT 3 SPAN 3 SIDE



END BENT 2 OVERVIEW



TYPICAL BEARING ASSEMBLY



APPROACH 2



JOINT AT BENT 3



JOINT AT BENT 2



JOINT AT BENT 1



SPAN 1 OVERVIEW, OTHER SPANS SIMILAR



LOOKING NORTH



WEST PROFILE



END BENT 1 OVERVIEW



LOOKING WEST UPSTREAM UNDER THE SOUTHBOUND STRUCTURE



LOOKING EAST DOWNSTREAM



EAST PROFILE



LOOKING SOUTH