ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection COUNTY **JOHNSTON BRIDGE NUMBER 500050** INSPECTION CYCLE 2 YRS NC210 ACROSS MIDDLE CREEK ROUTE M.P. 0 LOCATION 0.2MI E.JCT SR1341 SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON I-BEAMS SUBSTRUCTURE RC ABUT1;E.BT2:RCP&B;INT.BTS:RCP&B WIDENED W/PPC PILES SPANS 1@34';2@33.917';1@34' LONGITUDE 78° 24' 4.6" 35° 30' 29.1" LATITUDE PRESENT CONDITION FAIR **INVENTORY RATING** INSPECTION DATE 11/15/2011 **OPERATING RATING** PRESENT POSTING Not Posted **NOT POSTED PROPOSED POSTING COMPUTER UPDATE ANALYSIS DATE**

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELINEATORS

POSTING LETTER DATE



LOOKING EAST

SIGN NOTI	~ —	NUMBEREI REQUIRED
No	WEIGHT LIMIT	
No	DELINEATORS	
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 02/14/2012

IDENTIFICATION			
(1) STATE NAME -NORTH CAROLINA BRIDGE	500050	SUFFICIENCY RATING =	54.61
(8) STRUCTURE NUMBER(FEDERAL) 000	0000001010050	STATUS = Functionally Oboselete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31002100		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	3		CODE
(3) COUNTY CODE 101 (4) PLACE CODE	00000	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - MIDDLE CREEK		(104)HIGHWAY SYSTEM Is not on NHS	0
(7) FACILITY CARRIED NC210		(26) FUNCTIONAL CLASS - Major Collector	07
(9) LOCATION 0.2MI E.JCT SR1341		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 30' 27.9" (17)LONG 78° 24' 5.	.4"	(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHA	ARE	(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	0
		(20) TOLL On Free Road	3
		(31) MAINTAIN - State Highway Agency	01
(43) STRUCTURE TYPE MAIN: Steel		(22) OWNER - State Highway Agency	01
TYPE - Stringer Mutlibeam or Girder	CODE 302	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :			
TYPE -	CODE 000	CONDITION	CODE ·
(45) NUMBER OF SPANS IN MAIN UNIT	4	(58) DECK	7
(46) NUMBER OF APPROACH SPANS		(59) SUPERSTRUCTURE	5
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	5
(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	CODE ·
(C) TYPE OF DECK PROTECTION -	CODE	(31) DESIGN LOAD H 15	2
		(63) OPERATING RATING METHOD - Load Factor	_
AGE AND SERVICE		(64) OPERATING RATING - HS-28	151
(27) YEAR BUILT	1934	(65) INVENTORY RATING METHOD - Load Factor	101
(106)YEAR RECONSTRUCTED	1961	(66) INVENTORY RATING - HS-17	130
(42) TYPE OF SERVICE : ON - Highway		(70) BRIDGE POSTING - No Posting Required	5
UNDER - Waterway	CODE 15	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	A
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		DESCRIPTION - Open, No Restriction	,,
(29) AVERAGE DAILY TRAFFIC	5200	APPRAISAL —	CODE
(30) YEAR OF ADT 2010 (109) TRUCK ADT PCT	7%	(67) STRUCTURAL EVALUATION	5
(19) BYPASS OR DETOUR LENGTH	11 MI	(68) DECK GEOMETRY	2
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERTI & HORIZ	N
(48) LENGTH OF MAXIMUM SPAN	34 FT	(71) WATERWAY ADEQUACY	8
(49) STRUCTURE LENGTH	136 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT .8 FT RIGHT	.8 FT	(36) TRAFFIC SAFETY FEATURES	0000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	28 FT	(113)SCOUR CRITICAL BRIDGES	8
(52) DECK WIDTH OUT TO OUT	29.3 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	23 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 0° (35) STRUCTURE FLARED	0	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	28 FT	(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT	(114)FUTURE ADT 10400 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT		
(56) MIN LAT UNDERCLEAR LT REF -	000 FT	INSPECTIONS	
NAVIGATION DATA			1/21/2007
——NAVIGATION DATA (38) NAVIGATION CONTROL - No Navigational Control	CODE 0	(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE	
(36) NAVIGATION CONTROL - No Navigational Control (111)PIER PROTECTION -	CODE	A) FRACTURE CRIT DETAIL - NO A)	
(39) NAVIGATION VERTICAL CLEARANCE	0		//01/2007
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT	C) OTHER SPECIAL INSP NO C)	
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT	SCOUR	
(TO) INDVIORITORY HONIZORIAL CLEARANCE	UFI		

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 02/14/2012

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH:
JOHNSTON 4 3 500050 136 FEET

ROUTE CARRIED : FEATURE INTERSECTED : MIDDLE CREEK

LOCATED: BRIDGE NAME:

0.2MI E.JCT SR1341 CITY:

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:

07 FA NFA 5200 2010 LT 241 RT 241

BUILT: BY: PROJ: FED.AID PROJ: DESIGN LOAD:

1934 SHPWC 2390 N.R.S.414-A H 15

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:

1961 DBM TAN. 90 ON 2 UNDER

NAVIGATION: HT. CRN. TO BED: WATER DEPTH:

VC 0 FT HC 0 FT 21 FT 3 FT

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: RC ABUT1;E.BT2:RCP&B;INT.BTS:RCP&B WIDENED W/PPC PILES

SPANS: 1@34';2@33.917';1@34'

BEAMS OR GIRDERS: 13 LINES W18X47 I-BEAMS @ 2'4 CENTERS

FLOOR: ENCROACHMENT: DECK (OUT TO OUT):

29.3 FT

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

28 FT 29.6 FT LT .8 FT RT .8 FT

VERT.CL.OVER :

999.9 FT

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-17 HS-28 BEAM INT. SV TTST DATE 03/23/2009

SYSTEM: GREEN LINE ROUTE:

Primary N.C. Route N

UNDER ROUTES AND CLEARANCES

BRIDGE I & A FORM1 (90)A

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection

BRIDGE NO. 500050 COUNTY JOHNSTON ROUTE NC210 OVER MIDDLE CREEK

STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON I-BEAMS

ROUTE ORIENTATION W - E SPANS 1@34';2@33.917';1@34'

ROUTE ORIENTA			1 @ 34 ;2 @ 33.				
		S: CRITICA	L (C, 0 - 3)); POOR (P, 4); F	FAIR (F, 5, 6); GOOD (G, 7	- 9)	
	INSPECTION ITEM				ITEM 61		
	DECK ITEMS	(GRADES	45. CHANNEL a. WATERWAY			G
1. WEARING	·		F	& CHANNEL prot. b. ALIGNMENT			G
2. DECK NO.	a. CONCRETE	4	G	c. SCOUR			G
OF EA TYPE SPN GRADE	b. TIMBER				d. SLOPE PROT., RIP-RA	.P, DIKES, ETC.	
RATES SI & A	c. STEEL PLANK			50. APPROAC	H ROADWAY CONDITION		F
ITEM 58	d. OPEN GRID			51. APPROAC	H SLABS		
3. RAILING	a. CONCRETE		F	52. PAINT SYS	STEM CODE	Α	G
	b. TIMBER			53. UTILITIES			
1	c. ALUMINUM			54. RESPONS	E TO LIVE LOAD		G
	d. STEEL			55. ESTIMATE	D REMAINING LIFE		10
4. CURBS, WI	HEELGUARDS, PARAPETS, MEDIA	NS	F				
5. WALKWAY	S (ON OR ATTACHED TO STRUCT	URE)		60. REGULAT	ORY SIGN NOTICE ISSUE	D	NO
6. DECK EXP	a. STEEL PL OR FINGER			61. PROMPT-A	ACTION NOTICE ISSUED		NO
JTS. OR	b. MISC PREFAB			62. PRESENTI	_Y POSTED		NO
DEVICES. NO. OF EACH	c. COMPRESSION SEAL			63. TOT. FIELI	D INSP TIME (INCLUDE WE	RITE UP)(MAN HR)	6
	d. STANDARD JOINTS	3	G	64. TOTAL SN	OOPER INSP. TIME (HRS)		0
	e. OPEN JOINTS			65. TOTAL TR	AFFIC CONTROL TIME (MA	AN HRS)	0
7. DECK DEB	RIS (INCLUDES EXCESS SAND/GF	RAVEL)	F			-	
				70. SI&A GENERAL CONDITION RATINGS			
	SUPER STR. (FM. 1 (90)B TRUSS)	ITEM 59		a. DECK ITEM 58		ITEM 58	7
10. LONGITUI	DINAL BEAMS OR GIRDERS		F	b. SUPERSTRUCTURE ITEM 59		ITEM 59	5
11. LONGITUI	DINAL JOIST OR STRINGERS			c. SUBSTRUCTURE ITEM 60		ITEM 60	5
12. INT. DIAP	S, X-FRAMES, BRACING & CONN'S	S	G	d. CHANNEL & CHANNEL PROT. ITEM 61			7
13. END DIAP	'S, CURTAIN WALLS, & CONN'S		F				
14. FLOOR BI	EAMS AND CONNECTIONS				71. SI&A FIELD APPRAIS	SAL RATINGS	
15. BEARING	ASSEMBLIES (INCLUDING MISALI	GN)	F	a. WATERWAY ADAQUACY			7
16. DRAINAG	E SYSTEM (ON STRUCTURE)		F	b. APPR. RDWY. ALIGNMENT			7
17. MOVABLE	SPAN MACHINERY						
			1	72. FIELD SCOUR EVALUATION			0
SI	UB STR. ITEMS. ITEM 60 (INCLUDE	SCOUR)					
35. TIM SUB	a. ABUT. & INT. BENT CAPS & RIS	-		l	JSE OF INSP. ACCESSIBIL	ITY EQUIPMENT	
STR.	b. PILES, POST, SILLS, & BRACIN	IG		SNOOPER (C	ODE S, 4, OR N)	HRS	NO
	c. BULKHEADS, WING'S, & TIE BA			LADDER	, , ,		YES
36. CONC	a. ABUT. & INT. BENT CAPS		F	BUCKET TRUCK			NO
SUB STR.	b. ABUT. & BENT COL'S BREAST	WALLS	F	BOAT			NO
	c. ABUT. & INT. BENT PILES		F	OTHER			NO
	d. BACKWALLS, WING'S, RETAIN	. WALLS	G				
	e. ABUT. & BENT FOOTINGS & SI						
37. STEEL	a. ABUT. & INT. BENT CAPS & RIS			SPECIAL INS	PECTION REQUESTED FO	DR	
SUB STR.	b. PILES, BRACING, AND BULKHI			1			
38. FOUNDATION PILES TYPE MATERIAL				NOTE			
	ROT., RIP-RAP (INCLUDE DRAINAC	GE)	F	1			
40. FENDER S		/	•	80. INSPECTE	D BY:	Ma C Man	
41. DRIFT			G	81. REVIEWE		a ve - mar	
5 1				~ VIL VVL			

Bridge I&A Form 1(82)H							
State of North Carolina							
Dept. of Transportation							
Division of Highways							
Team Leader WILLIS C M							

FIELD INSPECTION REPORT

Bridge Inspecion & Analysis

Team Leader WILLIS C MAY

Assisted By WTW

Item No.	Grade	
3a	F	CONCRETE RAILS SCALING WITH EXPOSED COARSE AGGREGATE IN FACES.
4	F	CURBS SCALING WITH EXPOSED COARSE AGGREGATE IN FACES.
6d	G	STANDARD JOINTS JOINTS HAVE BEEN RESEALED.
7	F	DECK DEBRIS RANDOM PILES OF DIRT AND VEGETATION 6 IN. HIGH OUT 24 IN. ALONG CURBLINES.

Bridge I&A Form 1(82)H

State of North Carolina

Dept. of Transportation

Division of Highways

FIELD INSPECTION REPORT

Bridge Inspecion & Analysis

Team Leader WILLIS C MAY

ream Leader	WILLIS C M	AY
Assisted By	WTW	
Item No.	Grade	
10	F	LONGITUDINAL BEAMS ENDS OF BEAMS AND RUSTY SPOTS HAVE BEEN CLEANED AND PAINTED. BEAM NO. 3 AND 11 IN EACH SPAN HAVE TWO 3/4 INCH HOLES IN WEB SPACED AT 6 FT. 5/8 INCH STAGGERED HOLES IN TOP FLANGE SPACED AT 5.5 FT IN BEAM NO. 3
		THRU NO. 11 ALL SPANS . BEAMS HAVE 1/2 IN. FLANGE AND 3/8 IN. WEBS.
		SPAN 1 SECTION LOSS WITH 3/8 IN. REMAINING OUT 2 IN. ON BEAM NO. 1 BOTTOM FLANGE AT ABUTMENT NO. 1.
		UP TO 1/16 IN. SECTION LOSS WITH 7/16 IN. REMAINING IN EDGES OF BOTTOM FLANGES OF EXTERIOR BEAMS OVER BENT 1 .
		BEAM 1 SPAN 1 AT BENT 1 HAS 1/2 IN. STEEL PLATES ADDED TO WEB AND BOTTOM FLANGE 5 FT. LONG AT BENT 1 END. BEAMS 2,3, & 4 SPAN 1 AT BENT 1 BOTTOM OF WEB HAS BEEN REPLACED AND 1/2
		IN. STEEL PLATE ADDED TO BOTTOM FLANGE 5 FT. LONG. SPAN 2
		BEAM 1 AND 3 SPAN 2 AT BENT 1 HAS BEEN REPAIRED WITH 1/2 IN. STEEL PLATES ADDED TO WEB AND BOTTOM FLANGE 5 FT. LONG. BEAM 13 SPAN 2 AT BENT 1 BOTTOM OF WEB REPLACED AND 1/2 IN. STEEL PLATE
		ADDED TO BOTTOM FLANGE 2 FT. LONG. BEAM 1 SPAN 2 AT BENT 2 RIGHT BOTTOM FLANGE HAS AREA OF 100 % SECTION LOSS 5 IN. FROM BEARING 1 1/2 IN. X 1 IN. SEE SKETCH
		SPAN 3 BEAM 1 SPAN 3 AT BENT 3 HAS BEEN REPAIRED WITH 1/2 IN. STEEL PLATES ADDED TO WEB AND BOTTOM FLANGE 5.5 FT. LONG. BEAM 2 SPAN 3 AT BENT 3 BOTTOM OF WEB HAS BEEN REPLACED AND 1/2 STEEL PLATE ADDED TO BOTTOM FLANGE 5 FT. LONG. BEAM 7 SPAN 3 AT BENT 3 HAS BEEN REPAIRED WITH 1/2 IN. STEEL PLATES ADDED TO WEB AND BOTTOM FLANGE 3 FT. LONG. BEAMS 9,10,11 OF SPAN 3 AT BENT 3 HAVE HAD 3 IN. OF THE WEB AND THE BOTTOM FLANGE REPLACED 4 FT. LONG. A 1/2 IN. X 10 IN. WIDE X 4 FT. LONG COVER PLATE HAS BEEN PLACED OVER JOINT. SEE PHOTO AND SKETCH BEAM 12 RIGHT BOTTOM FLANGE HAS 1/4 IN. SECTION LOSS WITH 1/4 IN. REMAINING 12 IN. LONG IN END OVER BENT 3 AND 1/8 SECTION LOSS WITH 1/4 IN. REMAINING IN WEB 1 1/2 IN. HIGH X 18 IN. LONG. BEAM 13 LEFT BOTTOM FLANGE EDGE HAS 3/8 IN. SECTION LOSS WITH 1/8 IN. REMAINING 12 IN. LONG IN END OVER BENT 3. BEAM 12 SPAN 3 AT BENT 3 BOTTOM OF WEB HAS BEEN REPLACED AND 1/2 STEEL PLATE ADDED TO BOTTOM FLANGE 6 FT. LONG. BEAM 13 SPAN 3 AT BENT 3 HAS BEEN REPAIRED WITH 1/2 IN. STEEL PLATES ADDED TO WEB AND BOTTOM FLANGE 2 FT. LONG.
		SPAN 4 BEAMS 1,2,3,4,7, AND 9,10,11,12,13, HAVE SECTION LOSS WITH 7/16 IN. REMAINING IN BOTTOM FLANGE AND WEB WITH 5/16 IN. REMAINING UP TO 3 IN. HIGH. BEAM 1 SPAN 4 AT BENT 3 HAS BEEN REPAIRED WITH A 1/2 IN. PLATE ADDED TO BOTTOM FLANGE 11 FT. LONG. BEAM 3,8, & 10 SPAN 4 AT BENT 3 HAS BEE REPAIRED WITH A 1/2 IN. PLATE ADDED TO BOTTOM FLANGE 3 FT. LONG.

Bridge I&A Form 1(82)H

State of North Carolina Dept. of Transportation Division of Highways

FIELD INSPECTION REPORT

Bridge Inspecion & Analysis

Team Leader WILLIS C MAY

WTW	
Grade	
	BEAM 7 RIGHT BOTTOM FLANGE HAS SECTION LOSS WITH 3/8 IN. REMAINING 24 IN. LONG IN END OVER BENT 3. BEAM 8 RIGHT BOTTOM FLANGE HAS SECTION LOSS WITH 3/8 IN. REMAINING 24 IN. LONG IN END OVER BENT 3. BEAM NO. 13 AT END BENT 2 HAS SECTION LOSS WITH 3/16 INCH REMAINING, RANDOM SPOTS OF 1/16 IN. SECTION LOSS THE FULL LENGTH OF BOTTOM FLANGE, AND 1/8 IN. SECTION LOSS IN BOTTOM FLANGE 18 IN LONG AT 2/3 POINT.
NO	NO CURVED GIRDERS.
F	END DIAPHRAGMS BENT NO. 1 BAY 10 DIAPHRAGM CRACKED IN SPAN 1 AT BENT 1. DIAPHRAGM SPALLED WITH REBAR EXPOSED IN BAY 3.7,8 AND 9 IN SPAN NO. 1 AT BENT 1. BENT 1. BENT 3 DIAPHRAGM AT BENT NO. 3 SPALLED IN BAY 6 AND 7 IN SPAN NO. 3.
F	BEARING ASSEMBLIES BEARING ASSEMBLIES HAVE BEEN CLEANED AND PAINTED. BEARINGS AT BENT 3 HAVE 1/16 IN. SECTION LOSS IN FACES. MISSING ANCHOR BOLT NUTS AT RIGHT SIDE OF BEAM 12 SPAN 3 BENT 3 AND LEFT SIDE OF BEAM 13 SPAN 4 AT END BENT 2.
F	DRAINAGE SYSTEM 50 PERCENT OF THE DECK DRAINS ARE CLOGGED.
F	CONCRETE CAPS ABUTMENT 1 RANDOM HAIRLINE VERTICAL CRACKS IN FACES. 7 INCH LONG CRACK WITH DELAMINATION AND EFFLORESCENCE UNDER BEAM NO. 12 AT ABUTMENT NO. 1. BENT 1 SPAN 1 SIDE OF CAP AT BENT NO. 1 SPALLED 6 IN. X 6 IN. X 1 IN. DEEP WITH REBAR EXPOSED UNDER BAY 6. 1/8 IN. WIDE LONGITUDINAL CRACK 18 IN. LONG IN SPAN 1 SIDE FACE OF CAP BAY 3 AT BOTTOM CORNER. BENT 2 1/16 IN. WIDE LONGITUDINAL CRACK 3 FT. LONG IN FACE OF CAP SPAN 3 SIDE OF BENT 2 CAP UNDER BEAM 12 BENT 3 SPAN 3 SIDE FACE OF BENT 3 CAP UNDER BEAM 9 IS SPALL HAS BEEN REPAIRED. HAIRLINE X 2 FT. LONGITUDINAL CRACK IN SPAN 3 SIDE BAY 3. HAIRLINE MAP CRACKING ON BOTTOM OF BENT NO. 3 CAP OTHERS SIMILAR. END BENT 2
	NO F F

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT Bridge Inspecion & Analysis			
Team Leader	WILLIS C N	Y			
Assisted By	WTW				
Item No.	Grade				
36b	F	CONCRETE COLUMNS ABRASION WITH EXPOSED COARSE AGGREGATE ALONG FLOWLINE. RANDOM HAIRLINE VERTICAL CRACKS IN COLUMNS. BENT 3 SPALL WITH REBAR EXPOSED 17 INCHES LONG IN FILLET ON LEFT SIDE OF COLUMN NO. 1 BENT NO. 3.			
36c	F	VERTICAL 1/32 INCH CRACKS IN LEFT SIDE OF COLOMN NO. 2 BENT 3. CONCRETE PILES ABRASION WITH EXPOSED COARSE AGGREGATE ALONG FLOWLINE OF BENT 1 BENT 2. BENT 1 SPALL WITH REBAR EXPOSED 7 INCHES LONG ON SPAN 1 SIDE FACE OF PILE 2			

TRANSVERSE AND MAP CRACKS IN BOTH APPROACHES WITH 1/2 IN. SETTLEMENT

BENT NO. 1.

AT END BENTS.

50

APPROACH ROADWAY CONDITION

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

County JOHNSTON Bridge: 500050 Date: 11/15/2011

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	140	APPROACHES ARE CRACKED AND SETTLED.	
3376	Clean/Wash Bridge Decks	SF	560	DIRT, VEGETATION, AND DEBRIS ALONG CURBS.	





TRANSVERSE CRACK IN WEARING SURFACE OVER END BENT 1



DRAINS CLOGGED ALONG THE RIGHT SIDE CURBLINE- LEFT SIDE SIMILAR



TRANSVERSE CRACK IN WEARING SURFACE OVER END BENT 2 AND IN APPROACH 2



SPALL WITH EXPOSED REBAR IN FACE OF CAP AT BENT 1 SPAN 1 UNDER BAY 6



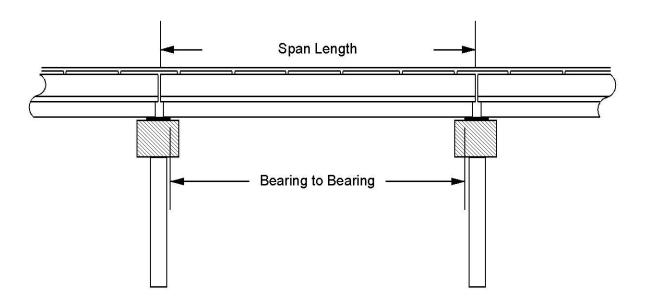
WATER ABRASION WITH EXPOSED AGGREGATE IN THE FLOWZONE OF BENT COLUMNS



SECTION LOSS IN THE RIGHT SIDE BOTTOM FLANGE OF BEAM 1 IN SPAN 2 OVER BENT 1

Structure Data Worksheet

County: JOHNSTON Structure No: 500050 Date: 11/15/2011 Inspected By: WCM



Span No	Span Length	Bearing to Bearing	Comments
1	34	31.75	
2	33.917	33.25	
3	33.917	33.25	
4	34	31.75	

Stream Bed Soundings

(See next sheet for profile sketch)

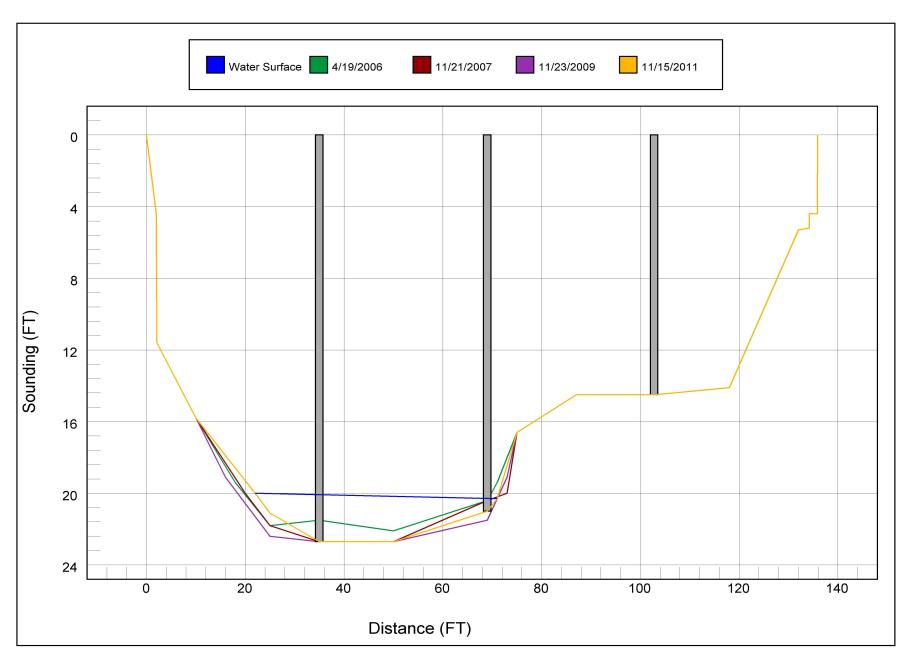
Bridge No: 500050	County: JOHNSTON	Date: 11/15/2011	Ву:	WCM
Record sounding from top of	f rail. Other location if needed			
Distance from Highwater Ma	rk to top of rail:	Location of Highwater Mark:		

	DOWNSTREAM			UPSTREAM			
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description		
0	0	TOP OF RAIL					
2	4.4	TOC					
2.1	11.6	GAC	2.1	13.1	GAC		
10	15.8						
22	20	Water Surface/Water Edge (WSWE)					
25	21.1						
35	22.7	BENT 1	35	23.9	BENT 1		
50	22.7						
69	21	BENT 2	69	18	BENT 2		
71	20.3	Water Surface/Water Edge (WSWE)					
75	16.6						
87	14.5						
102.8	14.5	BENT 3	102.8	14.8	BENT 3		
118	14.1						
132	5.3	CONCRETE SLOPE	132	5.6	CONCRETE SLOPE		
134.2	5.2	CONCRETE SLOPE					
134.21	4.4	TOC					
135.8	4.4	TOC					
135.9	0	TOP OF RAIL					

Bridge: 500050 County JOHNSTON Date: 11/15/2011

STREAMBED PROFILE (Downstream)

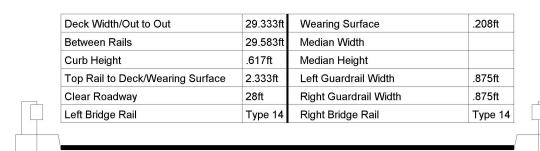
Top of Rail = 0 FT (Sounding)



Roadway	22.5ft Wide	2 Paved Lanes	Looking East
Left Shoulder	7ft Wide		7ft Unpaved
Right Shoulder	7ft Wide		7ft Unpaved
Left Guardrail			
Right Guardrail			

CHECKED: 11/15/11 WTW

Title		Description			
	APPROACH ROADWAY		LOOKING EAST		
	Bridge No: 500050 Drawn By: GGW			Date: 03/31/2006	File Name: S0214000180

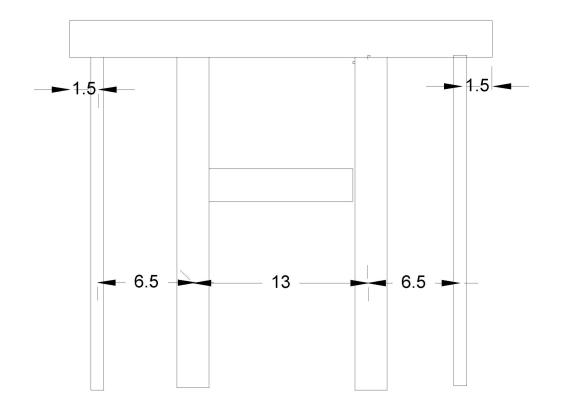


Measurements for Span #	1		
Deck Thickness	.5	Left Overhang	.617
Top of Rail to Bottom of Beam	4.333	Right Overhang	.617

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.333ft	
2	Steel I Beam	2.333ft	
3	Steel I Beam	2.333ft	
4	Steel I Beam	2.333ft	
5	Steel I Beam	2.333ft	
6	Steel I Beam	2.333ft	
7	Steel I Beam	2.333ft	
8	Steel I Beam	2.333ft	
9	Steel I Beam	2.333ft	
10	Steel I Beam	2.333ft	
11	Steel I Beam	2.333ft	
12	Steel I Beam	2.333ft	
13	Steel I Beam		

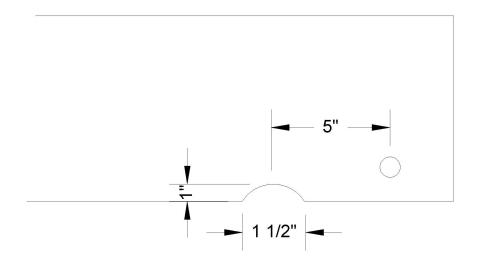
CHECKED: 11/15/11 WTW

Title		Descri	otion	
TYPICAL SECTION		LOOKING EAST		
Bridge No: 500050 Drawn By: GGW		Date: 03/31/2006	File Name: S0214000181	



CHECKED: 11/15/11 WTW

Title		Descri	ption	
BENT DIAGRAM		LOOKING EAST		
Bridge No: 500050 Drawn By: GGW		Date: 03/31/2006	File Name: S0214000183	

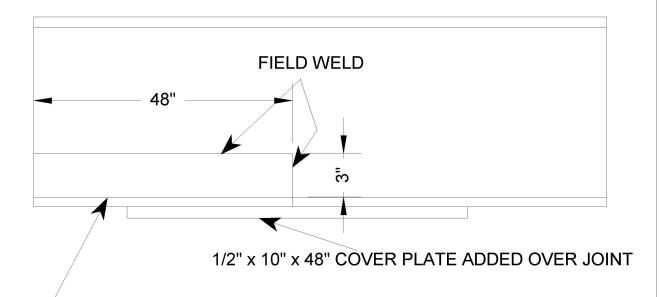


RT BOTTOM FLANGE OF BEAM 1 SPAN 2 AT BENT 2

CHECKED 11/15/11 WTW

Title		Description			
CONDITION 2		CONDITION 2			
Bridge No: 500050 Drawn By: WCM		•	Date: 11/20/2009	File Name: S0014003801	

BEAMS 9,10,11 OF SPAN 3 BENT 3 END



WEB AND BOTTOM FLANGE HAVE BEEN REPLACED

CHECKED 11/15/11 WTW

Title		Description		
REPAIR		REPAIR TO BEAMS 9,10,11 SPAN 3		
Bridge No: 500050	Drawn By: WCM		Date: 11/20/2009	File Name: S0014003799



Bridge Inspection Field Sketch Ν END BENT 2 BT 3 BT 2 **FLOW** 3' BT 1 **END BENT 1** BOTTOM COMP. = BEDROCK, SAND AND COBBLE W/ 6" PROBE WATER SURFACE = 20.7' AT N. SIDE OF BT. 1 Title Description PLAN VIEW WATERWAY Drawn By: BZC Bridge No: 500050 Date: 7/18/2007 File Name: S0158000430



LOOKING EAST



APPROACH 1



SPAN 1 OVERVIEW



JOINT AT BENT 1



SPAN 2 OVERVIEW



LOOKING SOUTH DOWNSTREAM



LOOKING NORTH UPSTREAM



JOINT AT BENT 2



SPAN 3 OVERVIEW



JOINT AT BENT 3



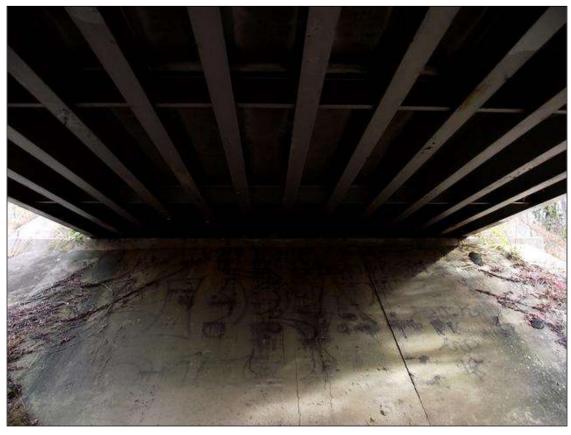
SPAN 4 OVERVIEW



APPROACH 2



LOOKING WEST



END BENT 2 OVERVIEW



BENT 1 SPAN 2 SIDE - OTHER BENTS SIMILAR



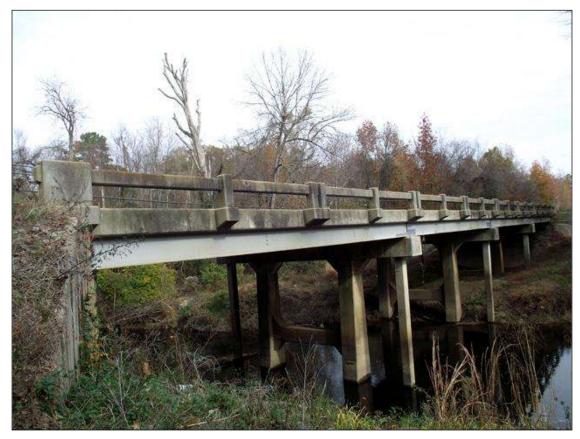
SUPERSTRUCTURE OVER BENT 2 END OF CAP - OTHER BENTS SIMILAR



PLATE REPAIR AT THE END OF BEAM 13 OVER BENT 3 SPAN 3 SIDE - OTHER REPAIRS SIMILAR THROUGHOUT STRUCTURE



SPALL WITH EXPOSED REBAR IN FACE OF CAP AT BENT 3 SPAN 3 SIDE UNDER BAY 9 REPAIRED



SOUTH PROFILE



SUPERSTRUCTURE OVERVIEW - ALL SPANS SIMILAR



PLATE REPAIRS AT THE ENDS OF BEAMS 1-4 IN SPAN 1 OVER BENT 1



PLATE REPAIR DETAIL FOR BEAM 7 OVER BENT 3 SPAN 3 SIDE - OTHER REPAIRS SIMILAR AT THIS BENT



ABUTMENT 1 OVERVIEW



NORTH PROFILE



TYPICAL BEARING ASSEMBLY THROUGHOUT STRUCTURE