



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE
TEMPORARY REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY GUILFORD BRIDGE NUMBER 400189 INSPECTION CYCLE 2 YRS
ROUTE SR2719 ACROSS PRONG REEDY FORK M.P. 0

0.8 MI. S. JCT. NC61

LOCATION 0.8 MI. SW. JCT. NC61

SUPERSTRUCTURE REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE ABUTMENTS: REINFORCED CONCRETE FULL HEIGHT

SPANS 1@36'0

LONGITUDE 79° 36' 5.10"

LATITUDE 36° 11' 17.50"

INSPECTION DATE 06/04/2014

PRESENT CONDITION POOR

PRESENT POSTING Y SV20 TTS27

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING NORTH

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

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
<u>No</u>	WEIGHT LIMIT	<u> </u>
<u>No</u>	DELINEATORS	<u> </u>
<u>No</u>	NARROW BRIDGE	<u> </u>
<u>No</u>	ONE LANE BRIDGE	<u> </u>
<u>No</u>	LOW CLEARANCE	<u> </u>

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

BRIDGE: **400189** County **Guilford** DATE: **11/8/2012**

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

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE	3	TSE
S I & A ITEM 60 - SUBSTRUCTURE		
S I & A ITEM 64 OPERATING RATING		
HS <i>.01</i>	BY:	
S I & A ITEM 66 - INVENTORY RATING		
HS <i>.01</i>	BY:	

COMMENTS

Some beams have plates welded to the web and bottom flange.

Temporary Repairs

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 07/23/2014

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	400189		SUFFICIENCY RATING =	20.99		
(8) STRUCTURE NUMBER(FEDERAL)		00000000810189		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31027190					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2					
(3) COUNTY CODE 81	(4) PLACE CODE	0					
(6) FEATURE INTERSECTED - PRONG REEDY FORK							
(7) FACILITY CARRIED SR2719							
(9) LOCATION 0.8 MI. S. JCT. NC61							
(11) MILEPOINT		0					
(16) LAT 36° 11' 17.50"	(17) LONG 79° 36' 5.10"						
(98) BORDER BRIDGE STATE CODE	PCT SHARE						
(99) BORDER BRIDGE STRUCTURE NO							
STRUCTURE TYPE AND MATERIAL							
(43) STRUCTURE TYPE MAIN: Steel							
TYPE - Stringer Multibeam or Girder	CODE	302					
(44) STRUCTURE TYPE APPR :							
TYPE -	CODE	000					
(45) NUMBER OF SPANS IN MAIN UNIT		1					
(46) NUMBER OF APPROACH SPANS							
(107) DECK STRUCTURE TYPE - 1	CODE						
(108) WEARING SURFACE / PROTECTIVE SYSTEM :							
(A) TYPE OF WEARING SURFACE -	CODE						
(B) TYPE OF MEMBRANE -	CODE						
(C) TYPE OF DECK PROTECTION -	CODE						
AGE AND SERVICE							
(27) YEAR BUILT		1963					
(106) YEAR RECONSTRUCTED							
(42) TYPE OF SERVICE : ON - Highway							
UNDER - Waterway	CODE	15					
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0					
(29) AVERAGE DAILY TRAFFIC		840					
(30) YEAR OF ADT 2011	(109) TRUCK ADT PCT	6%					
(19) BYPASS OR DETOUR LENGTH		3 MI					
GEOMETRIC DATA							
(48) LENGTH OF MAXIMUM SPAN		34 FT					
(49) STRUCTURE LENGTH		36 FT					
(50) CURB OR SIDEWALK: LEFT .9 FT RIGHT .9 FT							
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT					
(52) DECK WIDTH OUT TO OUT		25.5 FT					
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT					
(33) BRIDGE MEDIAN - No Median	CODE	0					
(34) SKEW 0°	(35) STRUCTURE FLARED	0					
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT					
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24 FT					
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT					
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT					
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT					
(56) MIN LAT UNDERCLEAR LT REF -		000 FT					
NAVIGATION DATA							
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0					
(111) PIER PROTECTION -	CODE						
(39) NAVIGATION VERTICAL CLEARANCE		0					
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT						
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					
				CLASSIFICATION			
				(112) NBIS BRIDGE SYSTEM -	YES		
				(104) HIGHWAY SYSTEM Is not on NHS	0		
				(26) FUNCTIONAL CLASS - Local	09		
				(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 Structure/Conditions	T		
				(110) DESIGNATED NATIONAL NETWORK - Not on the National Network	0		
				(20) TOLL On Free Road	3		
				(31) MAINTAIN - State Highway Agency	01		
				(22) OWNER - State Highway Agency	01		
				(37) HISTORICAL SIGNIFICANCE - Not Eligible	5		
				CONDITION			
				(58) DECK	5		
				(59) SUPERSTRUCTURE	3		
				(60) SUBSTRUCTURE	5		
				(61) CHANNEL & CHANNEL PROTECTION	5		
				(62) CULVERTS	N		
				LOAD RATING AND POSTING			
				(31) DESIGN LOAD Unknown	0		
				(63) OPERATING RATING METHOD - Load Factor	1		
				(64) OPERATING RATING - HS-1	1		
				(65) INVENTORY RATING METHOD - Load Factor	1		
				(66) INVENTORY RATING - HS-1	1		
				(70) BRIDGE POSTING - Posting Required	2		
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED DESCRIPTION - Posted for Load	P		
				APPRAISAL			
				(67) STRUCTURAL EVALUATION	3		
				(68) DECK GEOMETRY	4		
				(69) UNDERCLEARANCES, VERTI & HORIZ	N		
				(71) WATERWAY ADEQUACY	7		
				(72) APPROACH ROADWAY ALIGNMENT	8		
				(36) TRAFFIC SAFETY FEATURES	0000		
				(113) SCOUR CRITICAL BRIDGES	U		
				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 1680	(115) YEAR FUTURE ADT	2025	
				INSPECTIONS			
				(90) INSPECTION DATE	06/04/2014		
				(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			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 07/23/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
GUILFORD	7	2	400189	36	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR2719	PRONG REEDY FORK

LOCATED :	BRIDGE NAME :	CITY :
0.8 MI. S. JCT. NC61		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	840 2011	LT 141 RT 141

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1963	BMU			Unknown

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

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		13 FT		1		FT

SUPERSTRUCTURE :	REINFORCED CONCRETE DECK ON I-BEAMS
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SUBSTRUCTURE :	ABUTMENTS:REINFORCED CONCRETE FULL HEIGHT
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SPANS :	1@36'0"
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BEAMS OR GIRDERS :	4 LINES OF W21X59 I-BEAMS, 6 LINES OF W20X55 I-BEAMS, ALL @ VARIOUS CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
6.5" RC, 4" AWS		25.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.8 FT	LT .9 FT RT .9 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	I-Bm	SV 20	27	09/19/2008

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. 400189 COUNTY GUILFORD ROUTE SR2719 OVER PRONG REEDY FORK
 STRUCTURE TYPE REINFORCED CONCRETE DECK ON I-BEAMS
 ROUTE ORIENTATION S - N SPANS 1@36'0

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			P	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	G
					b. ALIGNMENT	G
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58					c. SCOUR	F
a. CONCRETE			1		d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
b. TIMBER				50. APPROACH ROADWAY CONDITION		
c. STEEL PLANK				51. APPROACH SLABS		
d. OPEN GRID				52. PAINT SYSTEM CODE A		
3. RAILING			G	53. UTILITIES		
a. CONCRETE				54. RESPONSE TO LIVE LOAD		
b. TIMBER				55. ESTIMATED REMAINING LIFE		
c. ALUMINUM				60. REGULATORY SIGN NOTICE ISSUED		
d. STEEL				61. PROMPT-ACTION NOTICE ISSUED		
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G	62. PRESENTLY POSTED		
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH				64. TOTAL SNOOPER INSP. TIME (HRS)		
a. STEEL PL OR FINGER				65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)		
b. MISC PREFAB				70. SI&A GENERAL CONDITION RATINGS		
c. COMPRESSION SEAL				a. DECK ITEM 58		
d. STANDARD JOINTS				b. SUPERSTRUCTURE ITEM 59		
e. OPEN JOINTS				c. SUBSTRUCTURE ITEM 60		
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			G	d. CHANNEL & CHANNEL PROT. ITEM 61		
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				71. SI&A FIELD APPRAISAL RATINGS		
10. LONGITUDINAL BEAMS OR GIRDERS			P	a. WATERWAY ADAQUACY		
11. LONGITUDINAL JOIST OR STRINGERS				b. APPR. RDWY. ALIGNMENT		
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			P	72. FIELD SCOUR EVALUATION		
13. END DIAP'S, CURTAIN WALLS, & CONN'S			F	USE OF INSP. ACCESSIBILITY EQUIPMENT		
14. FLOOR BEAMS AND CONNECTIONS				SNOOPER (CODE S, 4, OR N) HRS		
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				LADDER		
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	BUCKET TRUCK		
17. MOVABLE SPAN MACHINERY				BOAT		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)				OTHER		
35. TIM SUB STR.				SPECIAL INSPECTION REQUESTED FOR		
a. ABUT. & INT. BENT CAPS & RISERS						
b. PILES, POST, SILLS, & BRACING						
c. BULKHEADS, WING'S, & TIE BACKS						
36. CONC SUB STR.						
a. ABUT. & INT. BENT CAPS			F			
b. ABUT. & BENT COL'S BREASTWALLS			F			
c. ABUT. & INT. BENT PILES						
d. BACKWALLS, WING'S, RETAIN. WALLS			G			
e. ABUT. & BENT FOOTINGS & SILLS			F			
37. STEEL SUB STR.						
a. ABUT. & INT. BENT CAPS & RISERS						
b. PILES, BRACING, AND BULKHEADS						
38. FOUNDATION PILES TYPE MATERIAL				NOTE		
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)						
40. FENDER SYSTEMS				80. INSPECTED BY: <i>Matthew</i>		
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 MATTHEW WALKER			
Assisted By JOHN HAYES			
Item No.	Grade		
1	P	WEARING SURFACE POTHOLES IN RANDOM AREAS ALONG LENGTH.	
		CRACKED AND BEGINING TO BREAK-UP ALONG LENGTH.	
2a	F	NO WEARING SURFACE ALONG CURBS AT DRAIN HOLES . DECK....UNDERSIDE HAS EFFLORESCENCE LEAKING ALONG C-JTS IN BAYS 2 AND 8 FROM END TO END . 1 TV CRACK UP TO 1/16" IN BAY 7 NEAR MID-SPAN .	
10	P	UNDERSIDE OF DECK IN BAY 8, 4' FROM ABUTMENT 2 HAS 1/4" DEEP HONEYCOMBING 1' X 1' AREA BEAMS..... PRIORITY MAINT., BEAM 3, RIGHT SIDE, 12' FROM ABUTMENT 2 HAS SECTION LOSS 1/16 TO 1/8" DEEP X 4" HIGH X 1' LONG ALONG THE LOWER WEB. BEAM 3, RIGHT SIDE OF WEB AT DIAPHRAGM 1 HAS 1/16 TO 1/8" SECTION LOSS ALONG DIAPHRAGM CONNECTION TO WEB. RIGHT SIDE HAS 1/16" TO 1/8" SECTION LOSS ALONG THE UPPER WEB UP TO 2" HIGH IN A 25' LONG AREA STARTING AT ABUTMENT 1 CAP. PRIORITY MAINT., BEAM 8 HAS 1/16 TO 1/8" SECT. LOSS IN A 2" HIGH X 2' LONG AREA ON LEFT SIDE ALONG TOP OF WEB 8' OUT FROM ABUTMENT 1. ALSO HAS 1/16 TO 1/8" SECT. LOSS IN A 3' LONG X 3" HIGH AREA ON LEFT SIDE ALONG LOWER WEB 8' OUT FROM ABUTMENT 1. TEMPORARY REPAIR, BEAM 8 PLATED ALONG BOTTOM AND WEB IN SPOTS ALONG LENGTH TEMPORARY REPAIR, BEAM 3 PLATED ALONG BOTTOM AND WEB IN SPOTS ALONG LENGTH TEMPORARY REPAIR, BEAM 4 PLATED ON RIGHT SIDE OF WEB NEAR MIDSPAN BEAM 4 HAS SURFACE RUST AND UP TO 1/32 INCH SECTION LOSS ALONG TOP FLANGE , ALL BEAMS HAVE AREAS OF PAINT PEELING AND SURFACE RUST EXCEPT ON ENDS WHERE PREVIOUSLY PAINTED.. ALL BEAMS HAVE BEEN PAINTED ON ENDS NOTE...RIGHT SIDE OF BEAM 2 AND LEFT SIDE OF BEAM 3 NOT ACCESIBLE DUE TO CONCRETE POURED BETWEEN BEAMS ALSO RIGHT SIDE OF BEAM 8 AND LEFT SIDE OF BEAM 9 NOT ACCESIBLE DUE TO CONCRETE POURED BETWEEN BEAMS	
10A	NO	NO CURVED GIRDERS	

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 MATTHEW WALKER			
Assisted By JOHN HAYES			
Item No.	Grade		
12	P	INT. DISPHRAGMS.... PRIORITY MAINT., BAY 3, DIAPHRAGM 1 HAS A 5" LONG X 2" HIGH HOLE IN LOWER WEB PRIORITY MAINT., BAY 7, DIAPHRAGM 1 HAS 6" LONG X 1 1/2" HIGH HOLE ALL INT. DIAPS HAVE SURFACE RUST . DIAPHRAGMS ARE AT 1/4 POINTS IN ALL BAYS	
13	F	CURTAIN WALLS HONEY COMBING ON FACE OF BOTH CURTAIN WALLS .	
52	P	PAINT...SEE BEAMS AND INT. DIAPHRAGMS	
36a	F	CAPS BOTH ABUTMENTS HAVE SCATTERED H/L CRACKS UP TO 2 1/2 INCH HONEYCOMBING ALONG RUBBLE MASONRY SECTION .	
36b	F	BREASTWALL SEE CAPS .	
36e	F	FOOTINGS EXTERIOR FACE OF ABUTMENT 1 FOOTING EXPOSED AND DETERIORATED 3".	
45c	F	SCOUR 6 FEET SCOUR ALONG BANK UPSTREAM FROM BRIDGE . SEE SCOUR REPORT DATED 5/27/10	
54	F	MOVEMENT UNDER HEAVY LOADS	
61	YES	ISSUED FOR BEAMS AND INTERIOR DIAPHRAGMS	
62	YES	POSTING SV20/TTS27	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 400189

County GUILFORD

Date: 06/04/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	25	PRIORITY MAINT., BEAM 3, RIGHT SIDE, 12' FROM ABUTMENT 2 HAS SECTION LOSS 1/16 to 1/8" DEEP X 4" HIGH X 1' LONG ALONG THE LOWER WEB. BEAM 3, RIGHT SIDE OF WEB AT DIAPHRAGM 1 HAS 1/16 TO 1/8" SECTION LOSS ALONG DIAPHRAGM CONNECTION TO WEB. RIGHT SIDE HAS 1/16" TO 1/8" SECTION LOSS ALONG THE UPPER WEB UP TO 2" HIGH IN A 25' LONG AREA STARTING AT ABUTMENT 1 CAP.	
 3314	Maintain Steel Superstructure Components	LF	1	PRIORITY MAINT., BAY 3, DIAPHRAGM 1 HAS A 5" LONG X 2" HIGH HOLE IN LOWER WEB	
 3314	Maintain Steel Superstructure Components	LF	1	PRIORITY MAINT., BAY 7, DIAPHRAGM 1 HAS 6" LONG X 1 1/2" HIGH HOLE	
 3314	Maintain Steel Superstructure Components	LF	5	PRIORITY MAINT., BEAM 8 HAS 1/16 TO 1/8" SECT. LOSS IN A 2" HIGH X 2' LONG AREA ON LEFT SIDE ALONG TOP OF WEB 8' OUT FROM ABUTMENT 1. ALSO HAS 1/16 TO 1/8" SECT. LOSS IN A 3' LONG X 3" HIGH AREA ON LEFT SIDE ALONG LOWER WEB 8' OUT FROM ABUTMENT 1.	
2816	Asphalt Surface Repair or Replacement	SY	15	WEARING SURFACE POTHOLES IN RANDOM AREAS ALONG LENGTH. CRACKED AND BEGINING TO BREAK-UP ALONG LENGTH. NO WEARING SURFACE ALONG CURBS AT DRAIN HOLES .	
3314	Maintain Steel Superstructure Components	LF	20	BEAM 4 HAS SURFACE RUST AND UP TO 1/32 INCH SECTION LOSS ALONG TOP FLANGE ,	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 400189

County GUILFORD

Date: 06/04/2014

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	100	DECK....UNDERSIDE HAS EFFLORESCENCE LEAKING ALONG C-JTS IN BAYS 2 AND 8 FROM END TO END . 1 TV CRACK UP TO 1/16" IN BAY 7 NEAR MID-SPAN .	
3342	Clean and Paint Structural Steel	SF	500	UNDERSIDE OF DECK IN BAY 8, 4' FROM ABUTMENT 2 HAS 1/4" DEEP HONEYCOMBING 1' X 1' AREA ALL BEAMS AND DIAPHRAGMS HAVE AREAS OF PAINT FAILURE AND SURFACE RUST ALONG LENGTH.	
3348	Maintain Concrete Substructure Components	LF	50	BOTH ABUTMENTS HAVE SCATTERED H/L CRACKS UP TO 2 1/2 INCH HONEYCOMBING ALONG RUBBLE MASONRY SECTION .	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 400189

County GUILFORD

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	25 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM 3
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/06/2014	MATTHEW WALKER	JOHN HAYES
Details		
PRIORITY MAINT., BEAM 3, RIGHT SIDE, 12' FROM ABUTMENT 2 HAS SECTION LOSS 1/16 to 1/8" DEEP X 4" HIGH X 1' LONG ALONG THE LOWER WEB. BEAM 3, RIGHT SIDE OF WEB AT DIAPHRAGM 1 HAS 1/16 TO 1/8" SECTION LOSS ALONG DIAPHRAGM CONNECTION TO WEB. RIGHT SIDE HAS 1/16" TO 1/8" SECTION LOSS ALONG THE UPPER WEB UP TO 2" HIGH IN A 25' LONG AREA STARTING AT ABUTMENT 1 CAP.		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF
Location:		
Beams and Girders	Bent/Span No. 1	DIAPHRAGM 1 IN BAY 3
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/06/2014	MATTHEW WALKER	JOHN HAYES
Details		
PRIORITY MAINT., BAY 3, DIAPHRAGM 1 HAS A 5" LONG X 2" HIGH HOLE IN LOWER WEB		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 400189

County GUILFORD

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF
Location:		
Beams and Girders	Bent/Span No. 1	DIAPHRAGM 1, BAY 7
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/06/2014	MATTHEW WALKER	JOHN HAYES
Details		
PRIORITY MAINT., BAY 7, DIAPHRAGM 1 HAS 6" LONG X 1 1/2" HIGH HOLE		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	5 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM 8
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/06/2014	MATTHEW WALKER	JOHN HAYES
Details		
PRIORITY MAINT., BEAM 8 HAS 1/16 TO 1/8" SECT. LOSS IN A 2" HIGH X 2' LONG AREA ON LEFT SIDE ALONG TOP OF WEB 8' OUT FROM ABUTMENT 1. ALSO HAS 1/16 TO 1/8" SECT. LOSS IN A 3' LONG X 3" HIGH AREA ON LEFT SIDE ALONG LOWER WEB 8' OUT FROM ABUTMENT 1.		



ASPHALT WEARING SURFACE HAS POTHOLES AND CRACKING ALONG LENGTH



TEMPORARY REPAIR, BEAM 8 PLATED ALONG BOTTOM AND WEB IN SPOTS ALONG LENGTH



TEMPORARY REPAIR, BEAM 3 PLATED ALONG BOTTOM AND WEB IN SPOTS ALONG LENGTH



TEMPORARY REPAIR, BEAM 4 PLATED ON RIGHT SIDE OF WEB NEAR MIDSPAN



BETWEEN BEAMS 2 AND 3 THERE IS EFFLORESCENCE LEAKING ALONG CONSTRUCTION JOINT, SIMILAR AT BEAMS 8 AND 9



UNDERSIDE OF DECK IN BAY 8, 4' FROM ABUTMENT 2 HAS 1/4" DEEP HONEYCOMBING 1' X 1' AREA



PRIORITY MAINT., BEAM 3, RIGHT SIDE, 12' FROM ABUTMENT 2 HAS SECTION LOSS 1/8" DEEP X 4" HIGH X 1' LONG ALONG THE LOWER WEB



PRIORITY MAINT., BAY 3, DIAPHRAGM 1 HAS A 5" LONG X 2" HIGH HOLE IN WEB



PRIORITY MAINT., BEAM 3, RIGHT SIDE OF WEB AT DIAPHRAGM 1 HAS 1/16 TO 1/8" SECTION LOSS ALONG DIAPHRAGM CONNECTION TO WEB.



PRIORITY MAINT., BEAM 3, RIGHT SIDE ON TOP OF WEB HAS 1/16" TO 1/8" SECTION LOSS IN A 6' AREA NEAR MIDSPAN.



PRIORITY MAINT., BEAM 3, RIGHT SIDE HAS 1/16" TO 1/8" SECTION LOSS ALONG THE UPPER WEB UP TO 2" HIGH IN A 25' LONG AREA STARTING AT ABUTMENT 1 CAP.



ABUTMENT 1 HAS ISOLATED PITTING AND HONEYCOMBING



PRIORITY MAINT., BEAM 8, LEFT SIDE 12' OUT FROM ABUTMENT 1, HAS 2' LONG X 4" HIGH AREA OF 1/8" SECTION LOSS



PRIORITY MAINT., BAY 7, DIAPHRAGM 1 HAS 6" LONG X 1 1/2" HIGH HOLE



PRIORITY MAINT., BEAM 8 HAS 1/16 TO 1/8" SECT. LOSS IN A 2" HIGH X 2' LONG AREA ON LEFT SIDE ALONG TOP OF WEB 8' OUT FROM ABUTMENT 1,



PRIORITY MAINT., BEAM 8, HAS 1/16 TO 1/8" SECT. LOSS IN A 3' LONG X 3" HIGH AREA ON LEFT SIDE ALONG LOWER WEB 8' OUT FROM ABUTMENT 1.



BEAM 4 HAS SURFACE RUST AND 1/32" SECTION LOSS IN SPOTS ALONG LENGTH

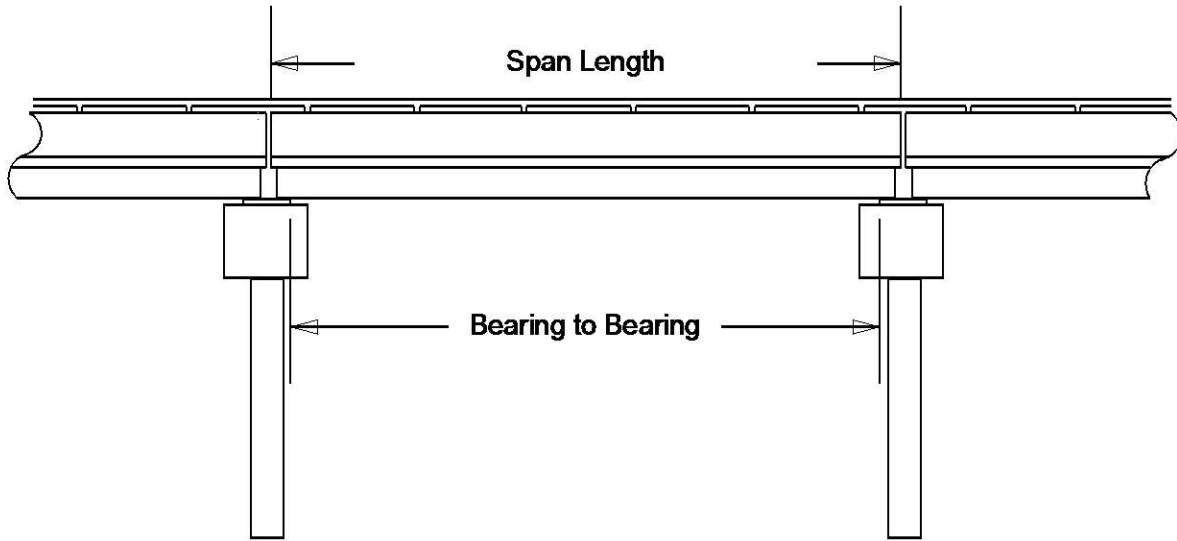


ALL BEAM ENDS HAVE BEEN PAINTED

Structure Data Worksheet

Spans

County: GUILFORD Structure No: 400189 Date: 06/04/2014 Inspected By: MYW



Span No	Span Length	Bearing to Bearing	Comments
1	36.000	34.000	NBIS- BL- 32.000, MEAS. VERIFIED 6/20/12...MYW

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 400189 County: GUILFORD Date: 06/04/2014 By: MYW

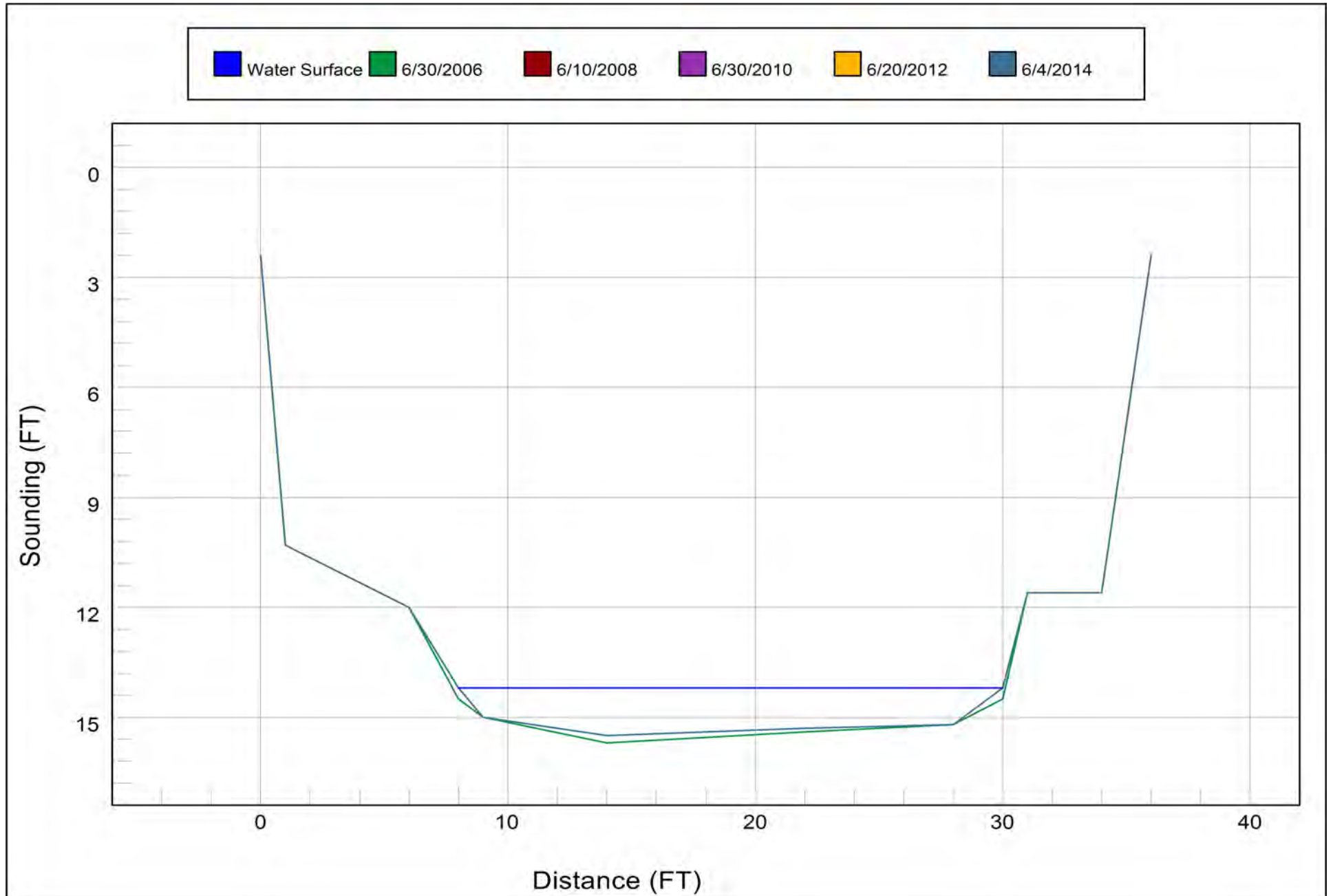
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 7 Location of Highwater Mark: abutments

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.4	ff tp WINGWALL			
1	10.3		1	10	abutment 1
6	12				
8	14.2	WSWE			
9	15				
14	15.5				
22	15.3				
28	15.2				
30	14.2	WSWE			
31	11.6				
34	11.6		34	12.2	abutment 2
36	2.4	ff tp WINGWALL			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	5ft Wide		5ft Unpaved
Right Shoulder	5ft Wide		5ft Unpaved
Left Guardrail			
Right Guardrail			

MEAS. VERIFIED 6/4/14...MYW

Title

app rdway

Description

app rdway

Bridge No: 400189

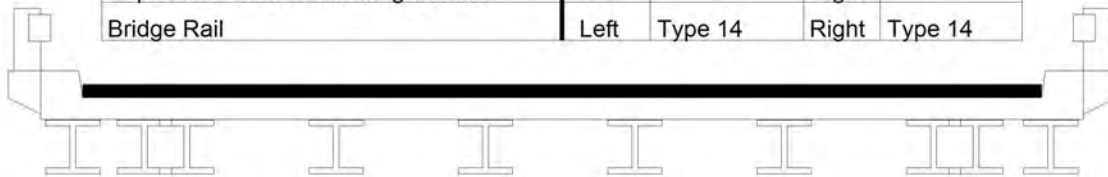
Drawn By: MYW

Date: 06/7/10

File Name: S0058001378

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.5ft	Between Rails			25.8ft
Clear Roadway	24ft	Wearing Surface			0.333ft
Median Width		Median Height			
Curb Height		Left	0.667ft	Right	0.667ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	0.791ft	Right	0.791ft
Top of Rail to Deck/Wearing Surface		Left		Right	
Bridge Rail		Left	Type 14	Right	Type 14



Measurements for Span #	1		
Deck Thickness	0.542	Left Overhang	0.792
Top of Rail to Bottom of Beam	4.833	Right Overhang	0.792

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	1.750ft	
2	Steel I Beam	1.042ft	
3	Steel I Beam	3.667ft	
4	Steel I Beam	3.667ft	
5	Steel I Beam	3.667ft	
6	Steel I Beam	3.667ft	
7	Steel I Beam	3.667ft	
8	Steel I Beam	1.042ft	
9	Steel I Beam	1.833ft	
10	Steel I Beam	ft	

SKETCH REDRAWN IN WIZARD

MEAS. REVISED 6/4/14...MYW

Title

data

Description

data

Bridge No: 400189

Drawn By: aCr

Date: 06/10/08

File Name: S0058001379

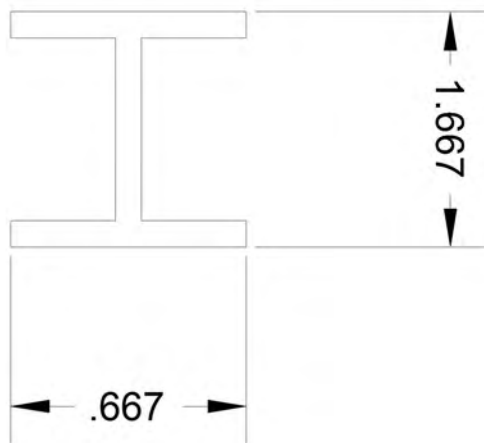
Bridge Inspection Field Sketch

beams 1,2, 9 & 10



web- .036
flange- .042 str.

beams 3 thru 8



flange- .036 tapered

MEAS. VERIFIED 6/4/14...MYW

Title

beam sizes

Description

beam sizes

Bridge No: 400189

Drawn By: aCr

Date: 06/10/08

File Name: S0058001380



LOOKING NORTH



POSTING SV20/TTS27



LOOKING SOUTH FROM BRIDGE



LOOKING NORTH FROM BRIDGE



DOWNSTREAM LOOKING EAST FROM BRIDGE



UPSTREAM LOOKING WEST FROM BRIDGE



LOOKING SOUTH



LOOKING EAST



LOOKING WEST



ABUTMENT 1, ABUTMENT 2 SIMILAR



SUPERSTRUCTURE



DOWNSTREAM LOOKING EAST



UPSTREAM LOOKING WEST