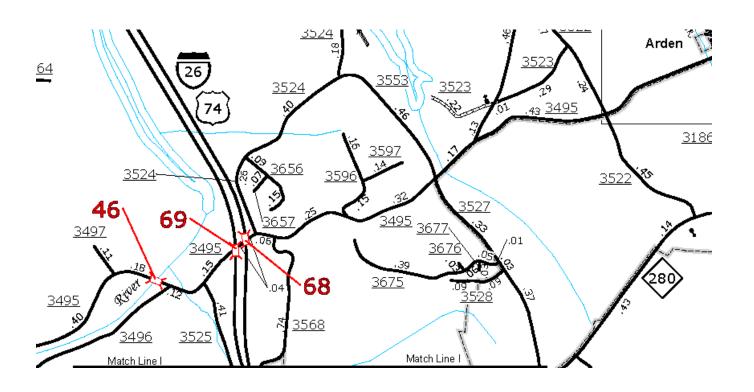
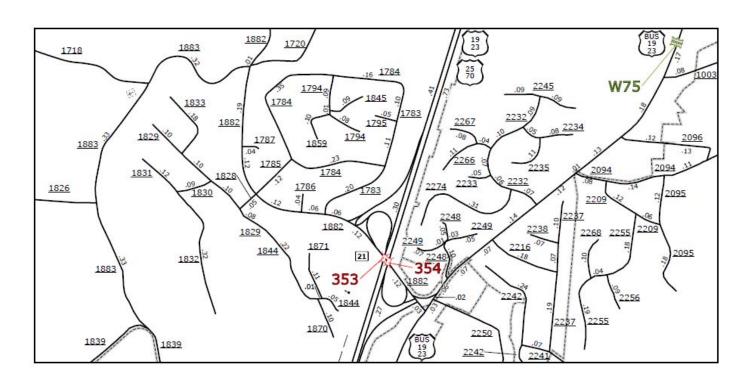
LOCATION MAPS

BRIDGE 68 – BUNCOMBE COUNTY

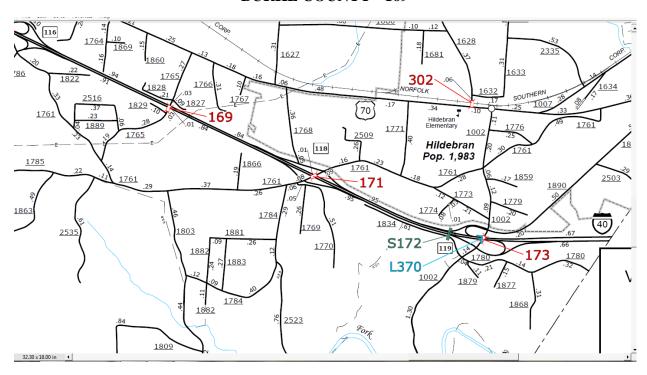


BRIDGE 353 – BUNCOMBE COUNTY

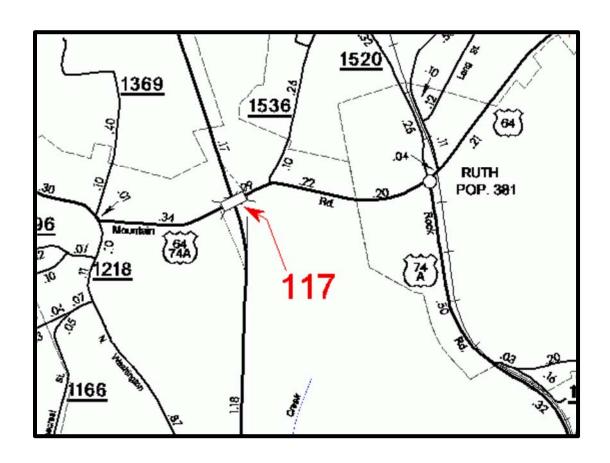




BURKE COUNTY - 169



BRIDGE 117-RUTHERFORD COUNTY



DAMAGE REPORTS

BUNCOMBE 68



NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BRIDGE MANAGEMENT UNIT ATTENTION

IMPACT DAMAGE REPORT ON SPAN 2 RATINGS FOR SPAN 2 ITEMS ONLY PRIOITY MAINTENANCE REQUESTED

BRIDGE INSPECTION REPORT

	INSPECTION TIPE.	Damage in	Spection	Report					
COUNTY	BUNCOMBE	BRIDGE N	UMBER	100068	INSPECTION CYCLE	0	YRS		
ROUTE	I-26 WBL	ACROSS	SR3495				M.P.	39.20	
LOCATIO	N 1.2 MI.N.JCT.SR3526								
SUPERSTRUCTURE REINFORCED CONC.FLOOR ON I-BEAMS									
SUBSTRU	JCTURE E.BTS:RC CAPS/H-PIL	.ES;BTS: RO	P&B/PIL	E FTG.					
SPANS	1 @ 42'-6, 1 @ 55', 1 @ 35'-4								
LONGITU	DE 82° 32' 32.42"			LATITUDE	35° 27' 25.43"				
INSPECTION DATE 04/04/2013				PRESENT CONDITION POOR					
PRESENT	POSTING N		PROPOSED POSTING						
OTHER S	OTHER SIGNS PRESENT LOW CLEARANCES								



Fracture Critical No
Temporary Shoring No
Scour Critical No
Scour POA No

SIGN NOT		NUMBERED REQUIRED
No	WEIGHT LIMIT	
No	DELINEATORS	
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

LOOKING NORTH

NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 04/19/2013

(1) STATE NAME -NORTH CAROLINA BRIDGE	100068	SUFFICIENCY RATING =	23.53
	0000000210068	STATUS = Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	11000260	,	
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2		— CODE
(3) COUNTY CODE 21 (4) PLACE CODE	5880	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - SR3495		(104)HIGHWAY SYSTEM Is on the NHS	1
(7) FACILITY CARRIED 1-26 WBL		(26) FUNCTIONAL CLASS - Arterial - Interstate	11
(9) LOCATION 1.2 MI.N.JCT.SR3526		(100)STRAHNET HIGHWAY - Interstate STRAHNET Route	1
(11)MILEPOINT	39.2	(101)PARALLEL STRUCTURE - Left Parallel Structure	L
(16)LAT 35° 27' 25.43" (17)LONG 82° 32' 32		(102)DIRECTION OF TRAFFIC - 1-way Traffic	1
(98)BORDER BRIDGE STATE CODE PCT SHA		(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions	т
(99)BORDER BRIDGE STRUCTURE NO	N.E	(110) DESIGNATED NATIONAL NETWORK - On the National Network	
(33) BONDEN BRIDGE OTROGTONE NO		(20) TOLL On Free Road	3
CTRUCTURE TYPE AND MATERIAL			
STRUCTURE TYPE AND MATERIAL — (43) STRUCTURE TYPE MAIN: Steel		(31) MAINTAIN - State Highway Agency	01
• /	CODE 302	(22) OWNER - State Highway Agency	01
TYPE - Stringer Mutlibeam or Girder	CODE 302	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :	CODE OOC	CONDITION	^^-
TYPE-	CODE 000	CONDITION —	— CODE
(45) NUMBER OF SPANS IN MAIN UNIT	3	(58) DECK	7
(46) NUMBER OF APPROACH SPANS	0055	(59) SUPERSTRUCTURE	4
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	5
(108)WEARING SURFACE / PROTECTIVE SYSTEM:		(61) CHANNEL & CHANNEL PROTECTION	N
(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 HS 20 + MOD	6
		(63) OPERATING RATING METHOD - Load Factor	1
AGE AND SERVICE		(64) OPERATING RATING - HS-1	1
(27) YEAR BUILT	1963	(65) INVENTORY RATING METHOD - Load Factor	1
(106)YEAR RECONSTRUCTED	2012	(66) INVENTORY RATING - HS-1	1
(42) TYPE OF SERVICE : ON - Highway		(70) BRIDGE POSTING - No Posting Required	5
UNDER - Highway	CODE 11	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	D
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	2	DESCRIPTION - Open Temporary Shoring	
(29) AVERAGE DAILY TRAFFIC	34500	APPRAISAL	- CODE
(30) YEAR OF ADT 2010 (109) TRUCK ADT PCT	16%	(67) STRUCTURAL EVALUATION	3
(19) BYPASS OR DETOUR LENGTH	1 MI	(68) DECK GEOMETRY	5
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERTI & HORIZ	3
(48) LENGTH OF MAXIMUM SPAN	54 FT	(71) WATERWAY ADEQUACY	N
(49) STRUCTURE LENGTH	133 FT	(72) APPROACH ROADWAY ALIGNMENT	7
(50)CURB OR SIDEWALK: LEFT 1.6 FT RIGHT	1.6 FT	(36) TRAFFIC SAFETY FEATURES	0111
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	38 FT	(113)SCOUR CRITICAL BRIDGES	N
(52) DECK WIDTH OUT TO OUT	43.4167 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	38 FT	(75) TYPE OF WORK - CO	DE
(33) BRIDGE MEDIAN - No Median	CODE 1	(76) LENGTH OF STRUCTURE IMPROVEMENT	_
(34) SKEW 55° (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	38 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 Highway	13.75 FT	(114) FUTURE ADT 69000 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Highway	5.5 FT	(113) TEAR FOTORE ADT	2023
(56) MIN LAT UNDERCLEAR LT REF -	0 FT	INSPECTIONS	
		(90) INSPECTION DATE	12/08/2011
NAVIGATION DATA		(92) CRITICAL FEATURE INSPECTION: (93) CFI DA	ATE
(38) NAVIGATION CONTROL - Not Applicable	CODE N	A) FRACTURE CRIT DETAIL - NO A)	
(111)PIER PROTECTION -	CODE	B) UNDERWATER INSP - NO B)	
(111)PIER PROTECTION - (39) NAVIGATION VERTICAL CLEARANCE	CODE 0	B) UNDERWATER INSP - NO B) C) OTHER SPECIAL INSP NO C)	
		·	

Structure No: 100068 County: BUNCOMBE Run Date:

Γ			ırtical		V			Ē			Traffic	ince		See Not	te 1					ute
Span Number	, Feature Intersected	Inventory Route	Minimum Maximum Ve	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily	Total Horizontal Cleara	Reference Feature	Minimum Vertical Underclearance	Right Lateral	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNE	Direction of Traffic	Highway System of Ro
L	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	SR3495	31034950	14	0	0			9	2	2700	2010	34.5	Н	13.75	5.5		9	0	2	0

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 04/19/2013

COUNTY: LENGTH: DIVISION: DISTRICT: STRUCTURE NUMBER: 133 13

BUNCOMBE FEET 2 100068

ROUTE CARRIED: FEATURE INTERSECTED: I-26 WBL SR3495

LOCATED: BRIDGE NAME: CITY: 1.2 MI.N.JCT.SR3526

*BILTMORE FO

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE: RT 99 FΑ NFA 34500 2010 LT 99

BUILT: PROJ: FED.AID PROJ: **DESIGN LOAD:** 1963 SHC 8.19002 I-26-1(10)6 HS 20 + MOD

REHAB: ALIGNMENT: SKEW: LANES: 2012 DOH 45066.3.ST3 35 ON UNDER 2

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

SUPERSTRUCTURE: REINFORCED CONC.FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/H-PILES;BTS: RC P&B/PILE FTG.

SPANS: 1 @ 42'-6, 1 @ 55', 1 @ 35'-4

BEAMS OR GIRDERS: SPNS.1&3:3LNS.33 &2LNS.36 I-BMS;SPN2:5LNS.36 I-BEAMS

FLOOR: ENCROACHMENT: DECK (OUT TO OUT):

8.5 RC/NO AWS 43.4167 FT

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

38 FT 41.3 FT 1.6 FT LT RT 1.6 FT

VERT.CL.OVER: 999.9 FT

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

HS-1 HS-1 EB(5B) SV TTST DATE

Damaged

GREEN LINE ROUTE: SYSTEM:

Primary Interstate

UNDER ROUTES AND CLEARANCES

			Vertical Clearances		Horizo	ances		
	Span	Route Description	cription MMVC MVC		Total	Left	Right	
ĺ	2	SR3495	14	13.75	34.50	0	5.50	

Note: All measurements are in feet.

REMARKS:

BRIDGE L& A FORM1 (90)A BRIDGE INSPECTION RECORD AND SUMMARY Damage Inspection Report BRIDGE NO. 100068 COUNTY BUNCOMBE ROUTE I-26 WBL OVER SR3495 STRUCTURE TYPE REINFORCED CONC.FLOOR ON I-BEAMS ROUTE ORIENTATION SPANS 1@42'-6, 1@55', 1@35'-4 EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9) INSPECTION ITEM ITEM 61 **DECKITEMS GRADES** 45. CHANNEL a. WATERWAY & CHANNEL 1. WEARING SURFACE b. ALIGNMENT PROT. 2. DECK NO. a. CONCRETE c. SCOUR OF EA TYPE b. TIMBER d. SLOPE PROT., RIP-RAP, DIKES, ETC. SPN GRADE 50. APPROACH ROADWAY CONDITION c. STEEL PLANK RATES SI & A ITEM 58 51. APPROACH SLABS d. OPEN GRID 3. RAILING a. CONCRETE 52. PAINT SYSTEM CODE b. TIMBER 53. UTILITIES c. ALUMINUM 54. RESPONSE TO LIVE LOAD 55. ESTIMATED REMAINING LIFE d STEFL 5 4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS 5. WALKWAYS (ON OR ATTACHED TO STRUCTURE) 60. REGULATORY SIGN NOTICE ISSUED NO 6. DECK EXP a. STEEL PL OR FINGER 61. PROMPT-ACTION NOTICE ISSUED YES JTS. OR b. MISC PREFAB 62. PRESENTLY POSTED NO DEVICES NO. OF EACH C. COMPRESSION SEAL 63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR) 10 d. STANDARD JOINTS 64. TOTAL SNOOPER INSP. TIME (HRS) 0 e OPEN JOINTS 65. TOTAL TRAFFIC CONTROL TIME (MAN HRS) 5 7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL) 70. SI&A GENERAL CONDITION RATINGS SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59 a. DECK ITEM 58 Р 10. LONGITUDINAL BEAMS OR GIRDERS b. SUPERSTRUCTURE ITEM 59 11. LONGITUDINAL JOIST OR STRINGERS c. SUBSTRUCTURE ITEM 60 12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S Ρ d. CHANNEL & CHANNEL PROT. ITEM 61 13. END DIAP'S, CURTAIN WALLS, & CONN'S 14. FLOOR BEAMS AND CONNECTIONS 71. SI&A FIELD APPRAISAL RATINGS P 15. BEARING ASSEMBLIES (INCLUDING MISALIGN) a. WATERWAY ADAQUACY 16. DRAINAGE SYSTEM (ON STRUCTURE) b. APPR. RDWY. ALIGNMENT 17. MOVABLE SPAN MACHINERY 72. FIELD SCOUR EVALUATION SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR) 35. TIM SUB a. ABUT. & INT. BENT CAPS & RISERS USE OF INSP. ACCESSIBILITY EQUIPMENT STR. SNOOPER (CODE S, 4, OR N) b. PILES, POST, SILLS, & BRACING NO c. BULKHEADS, WING'S, & TIE BACKS LADDER NO 36. CONC a. ABUT. & INT. BENT CAPS BUCKET TRUCK YES SUB STR. b. ABUT. & BENT COL'S BREASTWALLS **BOAT** NO c. ABUT. & INT. BENT PILES OTHER YES d. BACKWALLS, WING'S, RETAIN, WALLS e. ABUT. & BENT FOOTINGS & SILLS a. ABUT. & INT. BENT CAPS & RISERS SPECIAL INSPECTION REQUESTED FOR 37. STEEL SUB STR. b. PILES, BRACING, AND BULKHEADS 38. FOUNDATION PILES TYPE MATERIAL NOTE 39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE) 40. FENDER SYSTEMS 80. INSPECTED BY: Don Bline 41. DRIFT 81. REVIEWED BY:

Bridge I&A Fo	, ,		FIELD INSPECTION REPORT					
	rth Carolina Insportation		Bridge Inspecion & Analysis					
Division of	•							
Team Leader		NE						
Assisted By	A KING							
Item No.	Grade							
10	Р		CT DAMAGE WAS REQUESTED BY DIVISION BRIDG ER SR3495	E MAINTENANCE FOR SPAN				
	A IMPACT DAMAGE REPORT WAS DONE ON 3/12/12							
	BEAM 5: POINT OF IMPACT ON BEAM 5 WAS 17'-6" FROM FACE OF BENT 1 OVER NBL, BEAM 5 IS OUT OF PLUM 1 1/2"+/- AT 24'-9 FROM FACE OF BENT 1". SEE PHOTOS							
12	Р	CRAC +/- Lo	NECTION PLATE AND INTERMEDIATE DIAPHRAGMS CK IN DIAPHRAGM WELD ON BEAM 5 AT 20'-0" FROM DNG CRACK IN DIAPHRAGM WELD AT 14'-2"" FROM EXCESSIVE MOVEMENT WHEN TRAFFIC CROSSES	1 FACE OF BENT 2. AND A 23" FACE OF BENT 1. (BEAM				
15	Р	BEAF	BEARINGS ANS ANCHOR BOLTS IN SPAN 2 DID NOT SHOW ANY INDICATION OF DAMAGE DUE TO THE IMPACT.					
61	YES	CRAC	CKS IN DIAPHRAGMS					
73f	YES	UT M	ACHINE					

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 100068 County BUNCOMBE Date: 04/04/2013

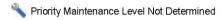
These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	2	CRACK IN DIAPHRAGM A 23" CRACK IN DIAPHRAGM WELD AT DIAPHRAGM ON BEAM 5 AT 14'-2" FROM BENT 1	
3314	Maintain Steel Superstructure Components	LF	1	CRACK IN DIAPHRAGM A 8" LONG CRACK IN DIAPHRAGM WELD AT DIAPHRAGM ON BEAM 5 AT 20'-00 FROM FACE OF BENT 2	
3314	Maintain Steel Superstructure Components	LF	55	BEAM 5 BEAM 5 IS 1 1/2" OUT OF PLUM AT 24'-9" FROM FACE OF BENT 1	
3314	Maintain Steel Superstructure Components	LF	55	BEAM 5 IS 1 1/2" OUT OF PLUM AT 24'-9" FROM FACE OF BENT 1	
3314	Maintain Steel Superstructure Components	LF	1	A 8" LONG CRACK IN DIAPHRAGM WELD AT DIAPHRAGM ON BEAM 5 AT 20'-00 FROM FACE OF BENT 2	
3314	Maintain Steel Superstructure Components	LF	2	A 23" CRACK IN DIAPHRAGM WELD AT DIAPHRAGM ON BEAM 5 AT 14'-2" FROM BENT 1	

Key







BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100068 County BUNCOMBE

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

MMS Code	MMS Descri	ption		Quantity					
3314	Maintain Stee	l Superstructure Components		2	LF				
Location:									
Beams and 0	Girders	Bent/Span No. 2	DIAPHRAGM						
Priority Level	I	Status							
Priority Main	tenance	Division Bridge Maintenance Noti	Division Bridge Maintenance Notification Received						
Submitted Da	ate: Submitte	ed By:	Assisted By:						
04/04/2013	MD OS	BORNE	A KING						
Details									
CRACK IN D BENT 1	CRACK IN DIAPHRAGM A 23" CRACK IN DIAPHRAGM WELD AT DIAPHRAGM ON BEAM 5 AT 14'-2" FROM								

MMS Code	MMS Descrip	otion		Quantity					
3314	Maintain Stee	I Superstructure Components		1 LF					
Location:	Location:								
Beams and G	Sirders	Bent/Span No. 2	DIAPHRAGM						
Priority Level		Status							
Priority Maint	enance	Division Bridge Maintenance Notification Received							
Submitted Da	ate: Submitte	d By:	Assisted By:						
04/04/2013	MD OS	BORNE	A KING						
Details									
	CRACK IN DIAPHRAGM A 8" LONG CRACK IN DIAPHRAGM WELD AT DIAPHRAGM ON BEAM 5 AT 20'-00 FROM FACE OF BENT 2								

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100068 County BUNCOMBE

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

MMS Code	MN	//S Descrip	otion		Quantity				
3314	Mai	ntain Steel	Superstructure Components		55	LF			
Location:	Location:								
Beams and	Girder	s	Bent/Span No. 2	BEAM					
Priority Leve	el .		Status						
Priority Mair	ntenan	ice	Division Bridge Maintenance Notification Received						
Submitted D	ate:	Submitte	d By:	Assisted By:					
04/04/2013		MD OSE	BORNE	A KING					
Details									
BEAM 5 BEA	BEAM 5 BEAM 5 IS 1 1/2" OUT OF PLUM AT 24'-9" FROM FACE OF BENT 1								



SCRAPES ON BEAM 5 FROM 17'-6" FROM BENT 1 TO 24'-9" FROM FACE OF BENT 2



A 23" CRACK IN DIAPHRAGM WELD AT DIAPHRAGM ON BEAM 5 AT 14'-2" FROM BENT 1

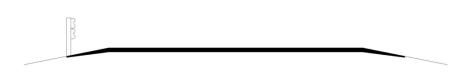


A 8" LONG CRACK IN DIAPHRAGM WELD AT DIAPHRAGM ON BEAM 5 AT 20'-00 FROM FACE OF BENT 2



BEAM 5 IS 1 1/2" OUT OF PLUM AT 24'-9" FROM FACE OF BENT 1



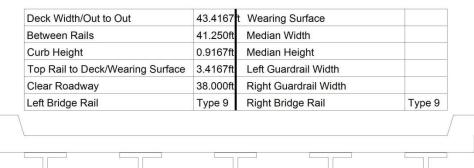


Roadway	24.000ft Wide	2 Paved Lanes	Looking West
Left Shoulder	10ft Wide	4.000ft Paved	6.000ft Unpaved
Right Shoulder	10ft Wide	10.000ft Paved	
Left Guardrail	10.000ft from road		
Right Guardrail			

APPROVED & VERIFIED 12/8/11 BY: BC

Title		Description				
APPR. RDWY.		DATA FOR APPR. RDWY.				
Bridge No: 100068	Drawn By: T.J.G.		Date: _{11/5/07}	File Name:S0110000662		

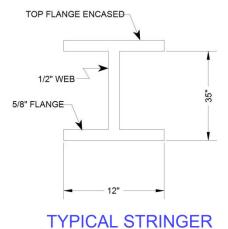




Measurements for Span #	1		
Deck Thickness	0.6458	Left Overhang	4.7083
Top of Rail to Bottom of Beam	7.0625	Right Overhang	4.7083

Beam No	Beam Type	Spacing	Comments	
1	Steel I Beam	8.500ft		
2	Steel I Beam	8.500ft		
3	Steel I Beam	8.500ft		
4	Steel I Beam	8.500ft		
5	Steel I Beam			

END BENTS ARE REINF. CONCRETE CAPS ON H-PILES INT. BENTS ARE REINF. CONCRETE POST & BEAM TYPE ON PILE FOOTINGS



NOT TO SCALE

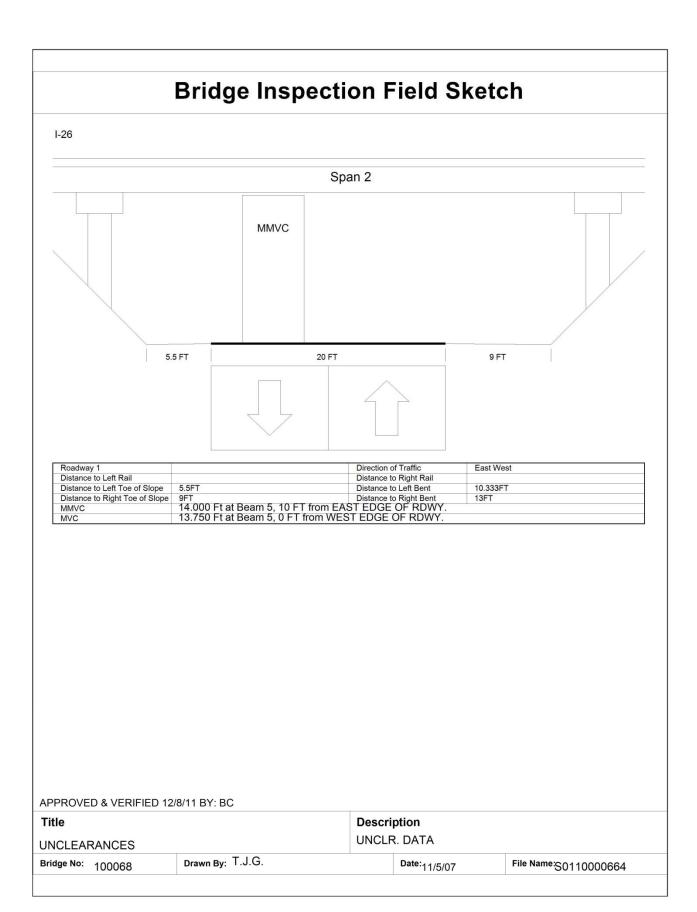
APPROVED & VERIFIED 12/8/11 BY: BC

 Title
 Description

 DECK SECTION
 DATA FOR SUPERSTRUCTURE

 Bridge No: 100068
 Drawn By: T.J.G.

 Date: 11/5/07
 File Name: \$0110000663





LOOKING NORTH



LOOKING SOUTH

BUNCOMBE 353

ATTENTION

IMPACT DAMAGE REPORT ON SPAN 2 RATINGS FOR SPAN 2 ITEMS ONLY PRIORITY MAINTENANCE REQUESTED

BRIDGE INSPECTION REPORT

	INSPECTION TYPE.	Damage inspection Report					
COUNTY	BUNCOMBE	BRIDGE N	UMBER	100353	INSPECTION CYCLE	0	YRS
ROUTE	US19,23BYPNBL	ACROSS_	SR1882				M.P. 0
LOCATIO	N .65 MI.S.JCT.SR1720						
SUPERST	RUCTURE REINFORCED CONC	RETE FLOO	R ON I-BI	EAMS			
SUBSTRU	JCTURE E.BTS:RC CAPS/H-PIL	.ES;INT.BTS	:RC POS	T&BEAM/PI	LE FTGS.		
SPANS	1 @ 58';1 @ 61';1 @ 64'-6						
LONGITU	DE 82° 35′ 30.31″		.,	LATITUDE	35° 40' 25.77"		
INSPECT	ON DATE 04/04/2013		PI	RESENT CO	NDITION POOR		
PRESENT	POSTING N		<u> </u>	PROPOSED	POSTING		
OTHER S	IGNS PRESENT NONE						



Fracture Critical
Temporary Shoring
Scour Critical
Scour POA

No No

No

SIGN NOTICE ISSUED FOR REQUIRED

No WEIGHT LIMIT

No DELINEATORS

No NARROWBRIDGE

No ONE LANE BRIDGE

No LOW CLEARANCE

LOOKING NORTH

NATIONAL BRIDGE INVENTORY------- STRUCTURE INVENTORY AND APPRAISAL Update Date: 09/24/2013

(1) STATE NAME -NORTH CAROLINA BRIDGE	4	00353	SUFFICIENCY RATING =	63
	00000002		STATUS = Structurally Deficient	63
(5) INVENTORY ROUTE (ON/UNDER) - ON		00260	STATUS - Structurally Delicient	
(2) STATE HIGHWAY DEPARTMENT DISTRICT	110	2	CLASSIFICATION	CODE
(3) COUNTY CODE 21 (4) PLACE CODE				CODE
		71560	(112)NBIS BRIDGE SYSTEM -	
(6) FEATURE INTERSECTED - SR1882			(104)HIGHWAY SYSTEM Is on the NHS	
(7) FACILITY CARRIED 1-26W,US19N,US23N			(26) FUNCTIONAL CLASS - Arterial - Interstate	1
(9) LOCATION .65 MI.S.JCT.SR1720		2	(100)STRAHNET HIGHWAY - Not a STRAHNET Route	(
(11)MILEPOINT	000	0	(101)PARALLEL STRUCTURE - Right Parallel Structure	F
(16)LAT 35" 40' 25.77" (17)LONG 82° 35' 3.0			(102)DIRECTION OF TRAFFIC - 1-way Traffic	100
(98)BORDER BRIDGE STATE CODE PCT SHAI	RE		(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO			(110)DESIGNATED NATIONAL NETWORK - On the National Network	13
			(20) TOLL On Free Road	
STRUCTURE TYPE AND MATERIAL —			(31) MAINTAIN - State Highway Agency	0
(43) STRUCTURE TYPE MAIN: Steel			(22) OWNER - State Highway Agency	0
TYPE - Stringer Mutlibeam or Girder	CODE	302	(37) HISTORICAL SIGNIFICANCE - Not Eligible	
(44) STRUCTURE TYPE APPR				
TYPE -	CODE	000	- CONDITION -	CODE
(45) NUMBER OF SPANS IN MAIN UNIT		3	(58) DECK	:
(46) NUMBER OF APPROACH SPANS			(59) SUPERSTRUCTURE	
(107)DECK STRUCTURE TYPE - 1	CODE		(60) SUBSTRUCTURE	
(108)WEARING SURFACE / PROTECTIVE SYSTEM:			(61) CHANNEL & CHANNEL PROTECTION	١
(A) TYPE OF WEARING SURFACE -	CODE		(62) CULVERTS	1
(B) TYPE OF MEMBRANE -	CODE		LOAD RATING AND POSTING	CODE
(C) TYPE OF DECK PROTECTION -	CODE		(31) DESIGN LOAD HS 20 + MOD	
			(63) OPERATING RATING METHOD - Load Factor	
AGE AND SERVICE		_	(64) OPERATING RATING - HS-43	78
(27) YEAR BUILT		1963	(65) INVENTORY RATING METHOD - Load Factor	
(106)YEAR RECONSTRUCTED			(66) INVENTORY RATING - HS-26	46
(42) TYPE OF SERVICE : ON - Overpass - Interchange			(70) BRIDGE POSTING - No Posting Required	
UNDER - Highway	CODE	61	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	,
(28) LANES: ON STRUCTURE 3 UNDER STRUCTURE		2	DESCRIPTION - Open, No Restriction	
(29) AVERAGE DAILY TRAFFIC		21500		CODE
(30) YEAR OF ADT 2011 (109) TRUCK ADT PCT		16%	(67) STRUCTURAL EVALUATION	
(19) BYPASS OR DETOUR LENGTH		0 MI	(68) DECK GEOMETRY	
GEOMETRIC DATA		_	(69) UNDERCLEARANCES, VERTI & HORIZ	
(48) LENGTH OF MAXIMUM SPAN		61 FT	(71) WATERWAY ADEQUACY	1
(49) STRUCTURE LENGTH	1	184 FT	(72) APPROACH ROADWAY ALIGNMENT	1
(50)CURB OR SIDEWALK: LEFT 1.6 FT RIGHT		1.6 FT	(36) TRAFFIC SAFETY FEATURES	001
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		40 FT	(113)SCOUR CRITICAL BRIDGES	1
(52) DECK WIDTH OUT TO OUT	45.	.25 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		38 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE	1	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 36" (35) STRUCTURE FLARED		0	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR		9.9 FT	(94) BRIDGE IMPROVEMENT COST (95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		40 FT		
(53) MIN VERT CLEAR OVER BRIDGE RDWY		9.9 FT	(96) TOTAL PROJECT COST	
(54) MIN VERT UNDERCLEAR REF Highway		25 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	2025
(55) MIN LAT UNDERCLEAR RT REF Highway		13 FT	(114)FUTURE ADT 43000 (115) YEAR FUTURE ADT	2025
(56) MIN LAT UNDERCLEAR LT REF -		OFT	INSPECTIONS	_
Mark The State of		200	(90) INSPECTION DATE	2/06/201
NAVIGATION DATA		_	(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE	
(38) NAVIGATION CONTROL - Not Applicable	CODE	N	A) FRACTURE CRIT DETAIL - NO A)	
(111)PIER PROTECTION -	CODE		B) UNDERWATER INSP - NO B)	
(39) NAVIGATION VERTICAL CLEARANCE		0	C) OTHER SPECIAL INSP NO C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT	SCOUR	
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT		

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 09/24/2013

COUNTY: BUNCOMBE DIVISION: 13

DISTRICT:

STRUCTURE NUMBER: 100353

LENGTH:

FEET 184

ROUTE CARRIED:

I-26W,US19N,US23N

FEATURE INTERSECTED:

SR1882

LOCATED:

.65 MI.S.JCT.SR1720

BRIDGE NAME:

2

CITY:

SYST.UNDER:

ADT & YR:

LT

FUNC. CLASS:

SYST.ON:

FED.AID PROJ:

RAIL TYPE : 99

*WEAVERVILLE

FA

SHC

NFA

21500 2011

DESIGN LOAD :

3

0

BUILT: 1963 BY:

PROJ:

8.1906601

SF-13-1(101)

HS 20 + MOD

RT 99

REHAB:

BY:

PROJ:

ALIGNMENT:

SKEW: 126

LANES: ON

UNDER

NAVIGATION:

0 FT HC

HT. CRN. TO BED :

FT

WATER DEPTH:

FT

2

VC SUPERSTRUCTURE:

REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE:

E.BTS:RC CAPS/H-PILES;INT.BTS:RC POST&BEAM/PILE FTGS.

SPANS:

1 @ 58';1 @ 61';1 @ 64'-6

BEAMS OR GIRDERS:

6 LINES 36 I-BEAMS @ 7'-6 CENTERS

FLOOR: 7.75RC/3. **ENCROACHMENT:**

DECK (OUT TO OUT):

45.25 FT

1.6 FT

CLEAR ROADWAY:

BETWEEN RAILS:

SIDEWALK OR CURB:

40 FT

43.25 FT

Int.bmsSpA

LT

RT

1.6 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :

HS-26

75AWS

OPE.RTG. : HS-43

CONTR.MEMBER:

POSTED: SV

TTST

DATE

Y

SYSTEM:

Primary Interstate

GREEN LINE ROUTE :

UNDER ROUTES AND CLEARANCES

Span		Vertical Cle	earances	Horizontal Clearances		
	Route Description	MMVC	MVC	TotalLeft	Right	
2	SR 1882	14.50	14.25	42.300	13	

Note: All measurements are in feet.

REMARKS:

1	ətu	Highway System of Roi	104	0
		Direction of Traffic	102	2 0
		STRAHNET Highway	100	0
		Underclearance Appraisal Grade	69	6
		Left Lateral Underclearance	99	00.
ė	1 0	Right Lateral Underclearance	55	13.00
Run Date	See Note	Minimum Vertical Underclearance	54	14.25
œ	,,	Reference Feature	54A	I
	əou	Total Horizontal Cleara	47	42.30H
	raffic	Year of Average Daily 7	30	2004
		Average Daily Traffic	59	6200
		Numer of Lanes	28	2
	u	Functional Classificatio	26	19
		lloT	20	
BUNCOMBE		13		
BUN		Base Highway Network	12	00
County:		1		
ŏ	tical	Minimum Maximum Ver Clearance	10	14.50
Ī		Inventory Route	2	31018820
Structure No: 100353		Feature Intersected	0	SR 1882
Str		Span Number		2

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE L& A FORM1 (90)A BRIDGE INSPECTION RECORD AND SUMMARY Damage Inspection Report COUNTY BUNCOMBE BRIDGE NO. 100353 ROUTE US19,23BYP NBL OVER SR1882 STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON I-BEAMS ROUTE ORIENTATION SPANS 1@58';1@61';1@64'-6 EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9) INSPECTION ITEM ITEM 61 **DECKITEMS GRADES** 45. CHANNEL a. WATERWAY & CHANNEL 1. WEARING SURFACE b. ALIGNMENT PROT. c. SCOUR 2. DECK NO. a. CONCRETE OF EA TYPE b. TIMBER d. SLOPE PROT., RIP-RAP, DIKES, ETC. SPN GRADE 50. APPROACH ROADWAY CONDITION c. STEEL PLANK RATES SI & A ITEM 58 d. OPEN GRID 51. APPROACH SLABS CODE 3. RAILING a. CONCRETE 52. PAINT SYSTEM b. TIMBER 53. UTILITIES c. ALUMINUM 54. RESPONSE TO LIVE LOAD 55. ESTIMATED REMAINING LIFE d STEFL 6 4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS 5. WALKWAYS (ON OR ATTACHED TO STRUCTURE) 60. REGULATORY SIGN NOTICE ISSUED NO 6. DECK EXP a. STEEL PL OR FINGER 61. PROMPT-ACTION NOTICE ISSUED YES JTS. OR b. MISC PREFAB 62. PRESENTLY POSTED NO DEVICES NO. OF EACH C. COMPRESSION SEAL 63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR) 8 d. STANDARD JOINTS 64. TOTAL SNOOPER INSP. TIME (HRS) 0 e OPEN JOINTS 65. TOTAL TRAFFIC CONTROL TIME (MAN HRS) 8 7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL) 70. SI&A GENERAL CONDITION RATINGS SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59 a. DECK ITEM 58 F ITEM 59 10. LONGITUDINAL BEAMS OR GIRDERS b. SUPERSTRUCTURE 11. LONGITUDINAL JOIST OR STRINGERS c. SUBSTRUCTURE ITEM 60 12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S Ρ d. CHANNEL & CHANNEL PROT. ITEM 61 13. END DIAP'S, CURTAIN WALLS, & CONN'S 14. FLOOR BEAMS AND CONNECTIONS 71. SI&A FIELD APPRAISAL RATINGS 15. BEARING ASSEMBLIES (INCLUDING MISALIGN) F a. WATERWAY ADAQUACY 16. DRAINAGE SYSTEM (ON STRUCTURE) b. APPR. RDWY. ALIGNMENT 17. MOVABLE SPAN MACHINERY 72. FIELD SCOUR EVALUATION SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR) a. ABUT. & INT. BENT CAPS & RISERS 35. TIM SUB USE OF INSP. ACCESSIBILITY EQUIPMENT STR. SNOOPER (CODE S, 4, OR N) b. PILES, POST, SILLS, & BRACING NO c. BULKHEADS, WING'S, & TIE BACKS LADDER NO 36. CONC BUCKET TRUCK YES a. ABUT. & INT. BENT CAPS SUB STR. b. ABUT. & BENT COL'S BREASTWALLS **BOAT** NO c. ABUT. & INT. BENT PILES OTHER YES d. BACKWALLS, WING'S, RETAIN, WALLS e. ABUT. & BENT FOOTINGS & SILLS a. ABUT. & INT. BENT CAPS & RISERS SPECIAL INSPECTION REQUESTED FOR 37. STEEL SUB STR. b. PILES, BRACING, AND BULKHEADS 38. FOUNDATION PILES TYPE MATERIAL NOTE 39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE) 40. FENDER SYSTEMS 80. INSPECTED BY: Soule Officer 41. DRIFT 81. REVIEWED BY:

Bridge I&A Fo	, ,		FIELD INSPECTION REPORT	
	rth Carolina		Bridge Inspecion & Analysis	
Dept. of Tra	ansportation		<u> </u>	
	MD OSBOR	NE		
Assisted By	A KING			
Item No.	Grade			
10	F		CT DAMAGE INSPECTION WAS REQUESTED BY DIV TENANCE FOR SPAN 2 OVER SR 1882	ISION BRIDGE
		BENT IS BE SOUT 1/4" A 1/16"	11: INITINAL POINT OF IMPACT ON BEAM 1 IN SBL V 11, INDENTION IN FLANGE 5" X 1/8" AND IN COVER F NT UPWARD 1/2" AT POINT OF IMPACT. BEAM 1 IS C 1H AT 26'-3" FROM FACE OF BENT 1. INDENTION IN F IT 24'-2" FROM FACE OF BENT 1. GOUGES IN FLANG AT 23'-0" FROM FACE OF BENT 1. SCRAPES ON BO FROM FACE OF BENT 1 TO 8'-10" FROM FACE OF B	PLATE 5" X 1/4" THE FLANGE DUT OF PLUM 1/2" TO THE FLANGE COVER PLATE 3" X SE COVER PLATE 4" X 2" X FTOM OF BEAM 1 FROM
		IN FLATI PLATI FACE 17'-7" PLATI	IT OF IMPACT ON BEAM 1 IN NBL WAS 18'-9" FROM I ANGE 2" X 1/2" AND IN COVER PLATE 2" X 1/16". IND E 10" X 1/8" AT 20'-7", A 2" X 1/4" AT 19'-8", A 2 1/2" X : OF BENT 2. INDENTIONS IN FLANGE 10" X 1/8" AT 2 ALL FROM FACE OF BENT 2. A 12" X 3/4" X 1/16" GC E AT 20'-7" FROM FACE OF BENT 2. BEAM IS OUT OF '-4" FROM FACE OF BENT 2. A 3/8" BOW IN WEB OF	ENTIONS IN FLANGE COVER 1/16" AT 17'-7", ALL FROM '0'-7", A 2 1/2" X 1/16" AT DUGE IN FLANHE COVER F PLUM 5/8" TO THE NORTH
12	Р	BOUN CONN BENT	1 2 : BEAM 2 HAS SCRAPES ON THE BOTTOM ABOVI ND LANES. (SEE PHOTO) NECTION PLATE OF INTERMEDIATE DIAPHRAGMS: I 2 2 IS MISSING ONE OF TWELVE DIAPHRAGM BOLTS PULLED AWAY FROM WEB 1/16" AT 21'-4" FROM FAC	DIAPHRAGM AT 21'-4" FROM B, BOTTOM OF DIAPHRAGM
15	F	BEAR	RINGS AND ANCHOR BOLTS IN SPAN 2 DID NOT SHO AGE DUE TO THE IMPACT.	W ANY INDICATION OF
61	YES	DIAPH	HRAGM	
73f	YES	UT M	ACHINE	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 100353 County BUNCOMBE Date: 04/04/2013

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

	THESE IXEDANS						
MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost		
3314	Maintain Steel Superstructure Components	년	1	DIAPHRAGM ONE OF TWELVE DIAPHRAGM BOLTS IS MISSING ON BEAM 1 @ 21'-4" FROM THE FACE OF BENT 2. SPAN 2 BOTTOM OF DIAPHRAGM PLATE HAS PULLED AWAY FROM THE WEB (1/16" +/-) @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2			
3314	Maintain Steel Superstructure Components	LF	58	BEAM 1 BEAM 1 IS OUT OF PLUMB (5/8" +/-) TO THE NORTH @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2 BOW IN BEAM 1 (3/8") @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2			
3314	Maintain Steel Superstructure Components	LF	61	BEAM 1 IS OUT OF PLUMB (1/2") TO THE SOUTH @ 26'-3" FROM THE FACE OF BENT 1. BEAM 1, SPAN 2			
3314	Maintain Steel Superstructure Components	LF	61	BEAM 1 IS OUT OF PLUMB (5/8" +/-) TO THE NORTH @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2			
3314	Maintain Steel Superstructure Components	LF	1	ONE OF TWELVE DIAPHRAGM BOLTS IS MISSING ON BEAM 1 @ 21'-4" FROM THE FACE OF BENT 2. SPAN 2			
3314	Maintain Steel Superstructure Components	LF	4	BOTTOM OF DIAPHRAGM PLATE HAS PULLED AWAY FROM THE WEB (1/16" +/-) @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2			

Key

Notice of the Priority Maintenance Item

Critical Finding Item

Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100353 County BUNCOMBE

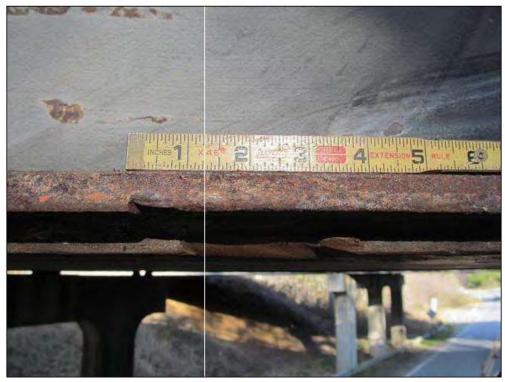
THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description Quantity						
3314	Maintain Steel Superstructure Components 1 LF						
Location:							
Beams and G	Sirders	Bent/Span No. 2	DIAPHRAGM				
Priority Level	riority Level Status						
Priority Maint	Priority Maintenance Division Bridge Maintenance Notification Received						
Submitted Da	ate: Submitte	ed By:	Assisted By:				
04/04/2013	MD OS	MD OSBORNE A KING					
Details	Details						
BENT 2. SPA	DIAPHRAGM ONE OF TWELVE DIAPHRAGM BOLTS IS MISSING ON BEAM 1 @ 21'-4" FROM THE FACE OF BENT 2. SPAN 2 BOTTOM OF DIAPHRAGM PLATE HAS PULLED AWAY FROM THE WEB (1/16" +/-) @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2						

MMS Code	MMS Description Quantity						
3314	Maintain Stee	Maintain Steel Superstructure Components 58 LF					
Location:							
Beams and G	Sirders	Bent/Span No. 2	BEAM				
Priority Level		Status					
Priority Maintenance Division Bridge Maintenance Notification Received							
Submitted Da	ate: Submitte	d By:	Assisted By:				
04/04/2013	MD OSI	MD OSBORNE A KING					
Details							
BEAM 1 BEA SPAN 2 BOW	BEAM 1 BEAM 1 IS OUT OF PLUMB (5/8" +/-) TO THE NORTH @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2 BOW IN BEAM 1 (3/8") @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2						



POINT OF IMPACT ON BEAM 1 IS 26'-3" FROM THE FACE OF BENT 1. INDENTION IN FLANGE ($5"\times1/8"$) & COVER PLATE ($5"\times1/4"$). BEAM 1, SPAN 2



INDENTION IN COVER PLATE ($3"\times1/4"$) AND FLANGE ($1"\times1/4"$) @ 24'-2" FROM THE FACE OF BENT 1. BEAM 1, SPAN 2



BEAM 1 IS OUT OF PLUMB (1/2") TO THE SOUTH @ 26'-3" FROM THE FACE OF BENT 1. BEAM 1, SPAN 2



SCRAPES ON THE OUTSIDE OF BEAM 1, SPAN 2



SCRAPES ON THE BOTTOM OF BEAM 1 IN FLANGE & COVER PLATE. FROM 12'-4" OF BENT 1 TO 8'-10" OF BENT 2. BEAM 1, SPAN 2



SCRAPES ON BOTTOM OF COVER PLATE OF BEAM 2 IN SOUTH BOUND LANE. BEAM 2, SPAN 2. (SAME IN NORTH BOUND LANE)



POINT OF IMPACT ON BEAM 1 IS 18'-9" FROM THE FACE OF BENT 2. INDENTION IN FLANGE ($2"\times 1/2"$) & COVER PLATE ($2"\times 1/16"$). BEAM 1, SPAN 2. NBL



INDENTION IN COVER PLATE ($9"\,X$ 1/16") & FLANGE ($10"\,X$ 1/8") AT 20'-7" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2. (NBL)



GOUGE IN COVER PLATE (12" X 3/4" X 1/16") @ 20'-7" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2. (NBL)



SCRAPES ON INSIDE OF WEB ON BEAM 1, SPAN 2 ABOVE NBL



ONE OF TWELVE DIAPHRAGM BOLTS IS MISSING ON BEAM 1 @ 21'-4" FROM THE FACE OF BENT 2. SPAN 2

Structure 100353 County BUNCOMBE Date: 04/04/2013 Condition Photos



BEAM 1 IS OUT OF PLUMB (5/8" +/-) TO THE NORTH @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2



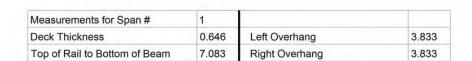
BOTTOM OF DIAPHRAGM PLATE HAS PULLED AWAY FROM THE WEB (1/16" +/-) @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2



BOW IN BEAM 1 (3/8") @ 21'-4" FROM THE FACE OF BENT 2. BEAM 1, SPAN 2

Bridge Inspection Field Sketch

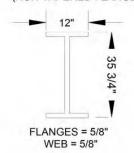
Deck Width/Out to Out	45.250ft	45.250ft Between Rails 40.000ft Wearing Surface Median Height				43.250ft
Clear Roadway	40.000ft				0.312ft	
Median Width						
Curb Height	Curb Height		0.542ft	Right	0.54	2ft
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Med	Clear Roadway (Rail to Median)			Right		
Guardrail Width		Left		Right		
Top of Rail to Deck/Wearing Surface		Left	3.417ft	Right	3.41	7ft
Bridge Rail		Left	Type 9	Right	Туре	9



Beam No	Beam Type	Spacing
1 thru 6	Steel I Beam	7.500ft

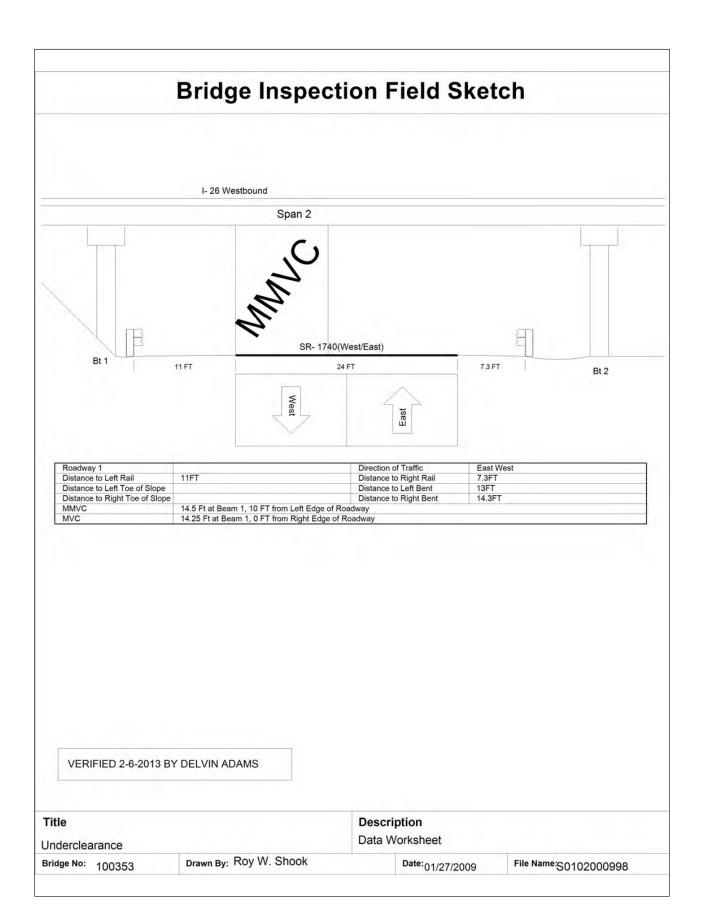
BEAMS

(NON-TAPERED FLANGES)



VERIFIED 2-6-2013 BY DELVIN ADAMS

Title		Description		
Typical Section	Data Worksheet			
Bridge No: 100353	Drawn By: Roy W. Shook	Date: 01/27/2009	File Name:S0102000997	



Bridge Inspection Field Sketch 24ft Wide Roadway 2 Paved Lanes **Looking West** Left Shoulder 7.5ft Wide 4.0ft Paved 3.5ft Unpaved 10.0ft Paved Right Shoulder 14ft Wide 4.0ft Unpaved Left Guardrail 7.5ft from road Right Guardrail

VERIFIED 2-6-2013 BY DELVIN ADAMS

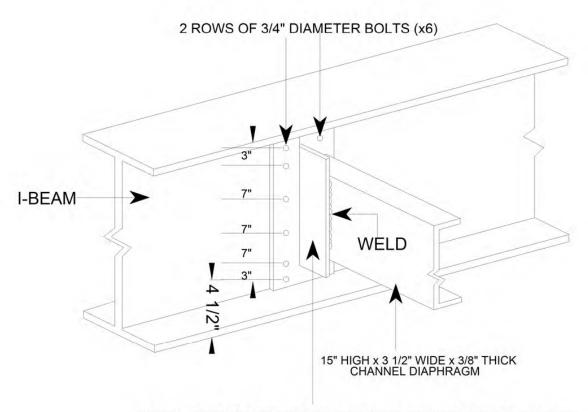
Approach Roadway		Data Worksheet		
Bridge No: 100353	Drawn By: Roy W. Shook	Dat	te:01/27/2009	File Name:S0102000996

Bridge Inspection Field Sketch BENT 2 COLUMN 1 HAS A 4' 6" X 4' 6" CONCRETE COLLAR Cap Information Material Cast-in-Place Concrete Left Beam to End of Cap. Right Beam to End of Cap. Length Width Height Left Overhang Right Overhang 50.000 ft. 3.000 ft. 3.000 ft. 5.000 ft. 5.000 ft. 2.000 ft. 2.000 ft. Subcap Information Material Length Width Height Left Overhang Right Overhang Left Pile to Splice. Material Sill Information Length Width Height Pile# Spacing Width/Dia. Height Orientation Driven? Replacement? Removed? Material Length Collar? 20.000 ft. 3.000 ft. Vertical Concrete No No No No 2 Concrete 20.000 ft. 3.000 ft. Vertical No No No No 3 Concrete 3.000 ft. Vertical No No No No Bent/Abutment #: Similar Bents: Description INTERIOR BENTS SUBSTRUCTURE DETAILS Drawn By: DELVIN ADAMS File Name: S0102001408 Bridge No: 100353 Date: 2/7/2013

Bridge Inspection Field Sketch

DIAPHRAGM DETAILS

LOCATIONS: 1/3 POINTS OF SPANS



30" HIGH x 7 3/4" WIDE x 9" DEEP (3/8" THICK) STEEL T-BRACKET WELDED TO WEB OF CHANNEL DIAPHRAGM AND BOLTED TO WEB OF BEAM

Title		Description		
INTERMEDIATE DIAP	HRAGMS	DIAPHRAGM DETAILS		
Bridge No: 100353	Drawn By: DELVIN ADAMS	Date: 2/7/2013	File Name: S0102001409	



LOOKING SOUTH



LOOKING NORTH

BURKE 169

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110169 County BURKE

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

MMS Code	MM	MMS Description Quantity				
3314	Mai	Maintain Steel Superstructure Components 12 LF			LF	
Location:						
Beams and	Beams and Girders Bent/Span No. 3 BEAM 1					
Priority Leve	el		Status			
Priority Mair	ntenar	ice	Division Bridge Maintenance Notification Received			
Submitted D	ate:	Submitte	By: Assisted By:			
10/23/2015		MONTY	'HOBBS	HOBBS RICARDO CORNEJO		
Details						
	SPAN 3 BEAM 1 WEB AND BOTTOM FLANGE AT 20FT FROM BENT 3, IMPACT DAMAGE (12LF), OUT OF PLUMB (UP TO +/- 3IN)					
SPAN 3 BEAM 1 AT 20FT FROM BENT 3, TWO ROWS OF FIVE BOLTS SHEARED AND MISSING FROM IMPACT DAMAGE						
	SPAN 3 BEAM 1 AT 20FT FROM BENT 3, BROKEN WELD BETWEEN COVER PLATE AND BOTTOM FLANGE (UP TO 4IN)					



SPAN 3 BEAM 1 WEB AND BOTTOM FLANGE AT 20FT FROM BENT 3, IMPACT DAMAGE (12LF), OUT OF PLUMB (UP TO \pm 2 3IN)



SPAN 3 BEAM 1 WEB AND BOTTOM FLANGE AT 20FT FROM BENT 3, IMPACT DAMAGE (12LF), OUT OF PLUMB (UP TO \pm /- 3IN)



SPAN 3 BEAM 1 WEB AND BOTTOM FLANGE AT 20FT FROM BENT 3, IMPACT DAMAGE (12LF), OUT OF PLUMB (UP TO \pm /- 3IN)



SPAN 3 BEAM 1 AT 20FT FROM BENT 3, TWO ROWS OF FIVE BOLTS SHEARED AND MISSING FROM IMPACT DAMAGE



SPAN 3 BEAM 1 WEB AND BOTTOM FLANGE AT 20FT FROM BENT 3, IMPACT DAMAGE (12LF), OUT OF PLUMB (UP TO \pm /- 3IN)



SPAN 3 BEAM 1 AT 20FT FROM BENT 3, TWO ROWS OF FIVE BOLTS SHEARED AND MISSING FROM IMPACT DAMAGE



SPAN 3 BEAM 1 AT 20FT FROM BENT 3, TWO ROWS OF FIVE BOLTS SHEARED AND MISSING FROM IMPACT DAMAGE



SPAN 3 BEAM 1 AT 20FT FROM BENT 3, TWO ROWS OF FIVE BOLTS SHEARED AND MISSING FROM IMPACT DAMAGE



SPAN 3 BEAM 1 WEB AND BOTTOM FLANGE AT 20FT FROM BENT 3, IMPACT DAMAGE (12LF), OUT OF PLUMB (UP TO \pm /- 3IN)



SPAN 3 BEAM 1 WEB AND BOTTOM FLANGE AT 20FT FROM BENT 3, IMPACT DAMAGE (12LF), OUT OF PLUMB (UP TO \pm /- 3IN)

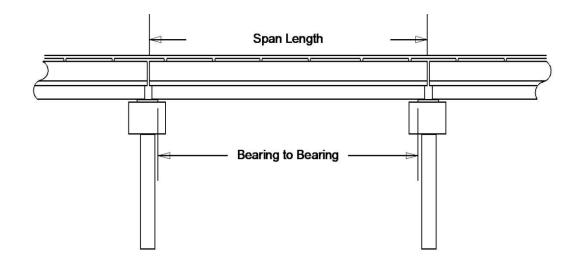


SPAN 3 BEAM 1 AT 20FT FROM BENT 3, BROKEN WELD BETWEEN COVER PLATE AND BOTTOM FLANGE (UP TO 4IN)



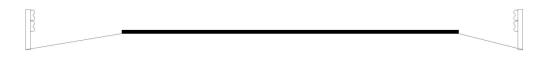
SPAN 3 BEAM 1 AT 20FT FROM BENT 3, BROKEN WELD BETWEEN COVER PLATE AND BOTTOM FLANGE (UP TO 4IN)

County: BURKE Structure No: 110169 Date: Inspected By: MAH



Span No	Span Length	Bearing to Bearing	Comments
1	42.0'	40.25'	NBIS LENGTH = 184.0'
2	52.5'	51.5'	
3	52.5'	51.5'	
4	42.0'	40.25'	

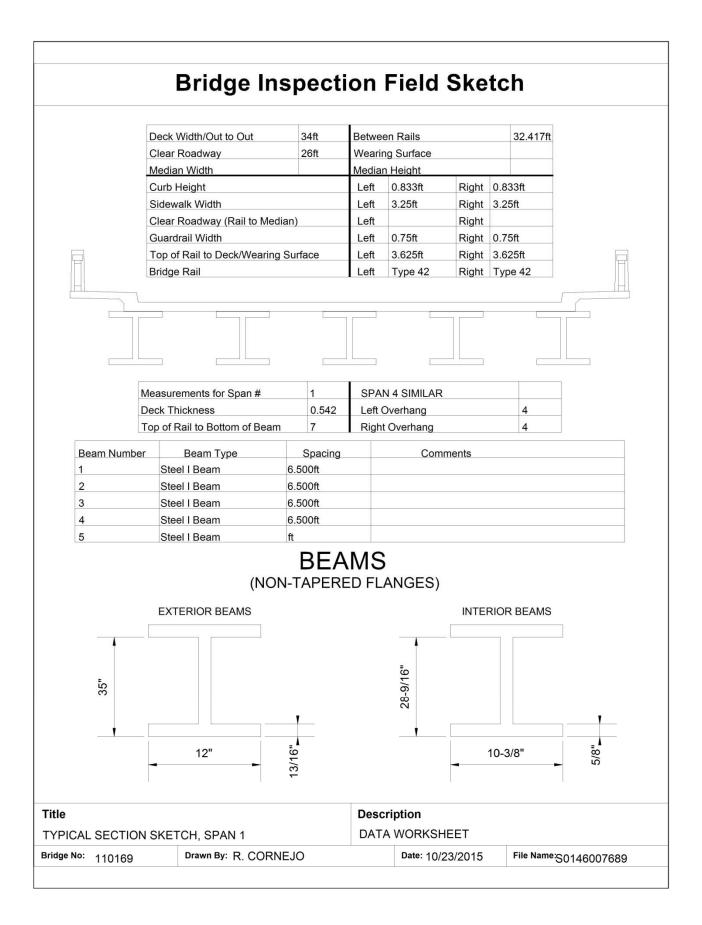




Roadway	21ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide	0ft Paved	6ft Unpaved
Right Shoulder	4ft Wide	0ft Paved	4ft Unpaved
Left Guardrail	6ft from road		
Right Guardrail	4ft from road		

NOTE: MEASUREMENTS TAKEN AT 35FT FROM END BENT 1

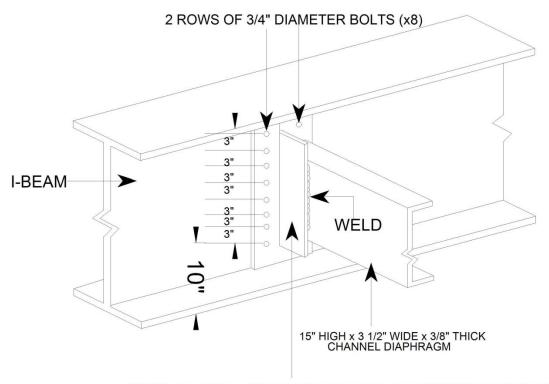
Title		Description		
APPROACH ROADWAY		DATA WORKSHEET		
Bridge No: 110169	Bridge No: 110169 Drawn By: R. CORNEJO		Date: 10/23/2015	File Name:S0146007688



Bridge Inspection Field Sketch

DIAPHRAGM DETAILS

LOCATIONS: MIDPOINT OF SPANS #1 & 4, 1/3 POINTS OF SPANS # 2 & 3

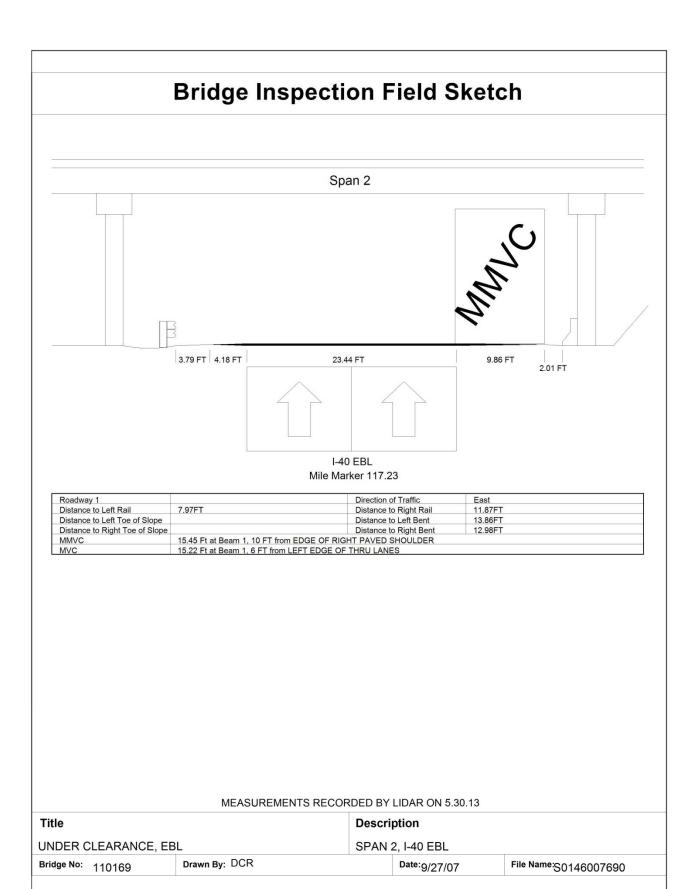


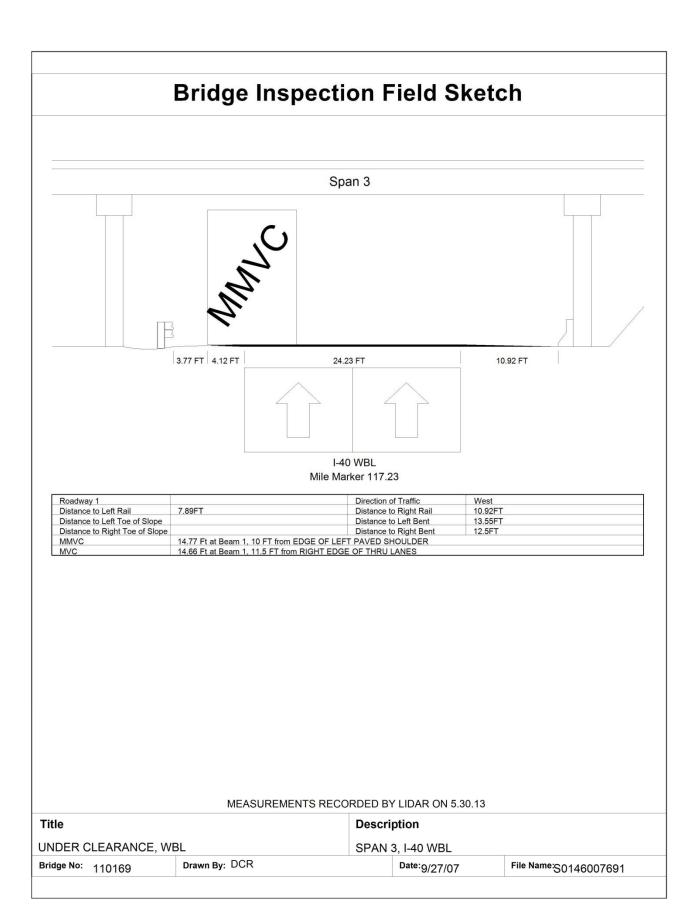
26" HIGH x 7 3/4" WIDE x 9" DEEP (3/8" THICK) STEEL T-BRACKET WELDED TO WEB OF CHANNEL DIAPHRAGM AND BOLTED TO WEB OF BEAM

NOTE: DEEPER BEAMS HAVE TWO ROWS OF 10 BOLTS

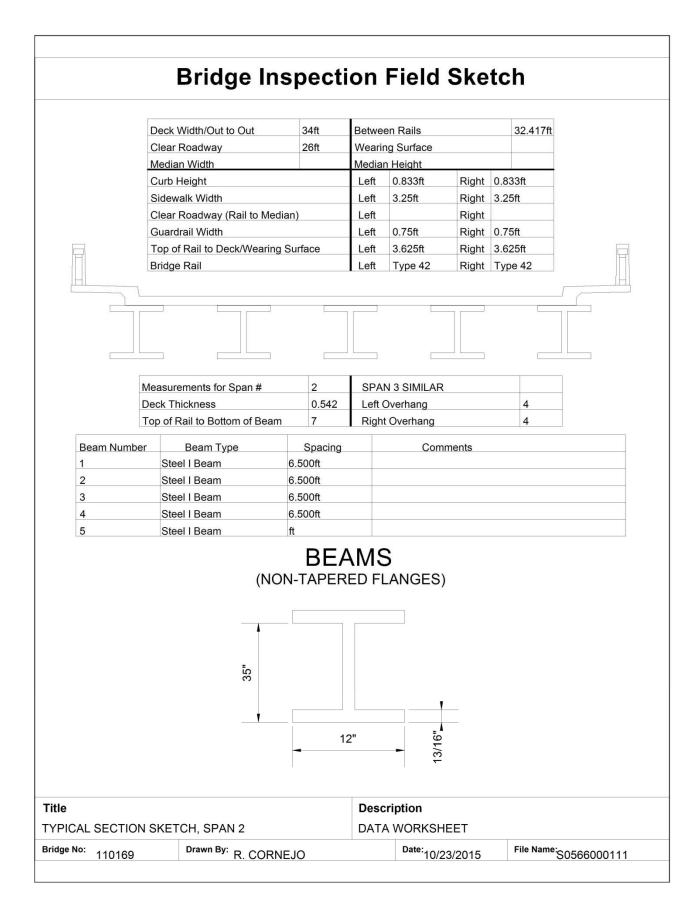
VERIFIED BY: M. HOBBS 10/23/2015

Title		Descript	tion	
INTERMEDIATE DIAPHRAGMS		DATA WORKSHEET		
Bridge No: 110169	Drawn By: DELVIN ADAMS	1	Date: 10/24/2011	File Name: \$0146031588





Bridge Inspection Field Sketch Cap Information Material Cast-in-Place Concrete Length Width Left Overhang Right Overhang Left Beam to End of Cap. Right Beam to End of Cap. Height 29.000 ft. 2.500 ft. 1.333 ft. 2.500 ft. 4.000 ft. 4.000 ft. 1.333 ft. Subcap Information Material Length Width Left Overhang Left Pile to Splice. Height Right Overhang Material Sill Information Length Width Height Pile # Width/Dia. Height Collar? Material Spacing Length Orientation | Driven? | Replacement? | Removed? 10.5 ft. 2.5 ft. 2.5 ft. Vertical Concrete No No No No 2 Concrete 10.5 ft. 2.5 ft. 2.5 ft. Vertical No No No No Concrete 2.5 ft. 2.5 ft. Vertical No No No No Bent/Abutment #: Similar Bents: Description **BENT 1 SKETCH** DATA WORKSHEET Bridge No: 110169 File Name: S0146031927 Drawn By: R. CORNEJO Date: 10/23/2015



RUTHERFORD 117

NO DITE

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BRIDGE MANAGEMENT UNIT

ATTENTION

IMPACT DAMAGE INSPECTION ONLY, NOTIFIED BY DIVISION BRIDGE MAMAGEMENT, GRADES ARE FOR IMPACT DAMAGE IN SPAN 2 ONLY

BRIDGE INSPECTION REPORT

INSPECTION TIPE.	Damage inspection	Report		
COUNTY RUTHERFORD	BRIDGE NUMBER	800117 INSPECT	ON CYCLE 0	YRS
ROUTE US64	ACROSS US221			M.P. 0
LOCATION 0.09 MI.W.JCT.SR1536				
SUPERSTRUCTURE REINFORCED CONCI	RETE FLOOR ON I-B	EAMS		
SUBSTRUCTURE E.BTS:RC CAPS/TIM.F	PILES;INT.BTS:RCP&	B/PILE FOOTINGS		
SPANS _ 1 @ 39'; 1 @ 47'-6; 1 @ 39'				
LONGITUDE 81° 57' 23.95"		LATITUDE 35° 22' 5	7.10"	
INSPECTION DATE 10/21/2014	P	RESENT CONDITION	FAIR	
PRESENT POSTING N	IOT POSTED	PROPOSED POSTING		
OTHER SIGNS PRESENT				



LOOKING NORTH

Fracture Critical No
Temporary Shoring No
Scour Critical No
Scour POA No

SIGN NOT ISSUED FO		NUMBERE 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: 12/09/2014

IDENTIFICATION			
(1) STATE NAME -NORTH CAROLINA BRIDGE	800117	SUFFICIENCY RATING =	62.78
(8) STRUCTURE NUMBER(FEDERAL) 0000	000001610117	STATUS = Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	21000640		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		CODE
(3) COUNTY CODE 161 (4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - US221		(104)HIGHWAY SYSTEM Is not on NHS	0
(7) FACILITY CARRIED US64		(26) FUNCTIONAL CLASS - Minor Arterial	06
(9) LOCATION 0.09 MI.W.JCT.SR1536		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 22' 57.10" (17)LONG 81° 57' 23	.95"	(102) DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHAI	RE	(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO		(110) DESIGNATED NATIONAL NETWORK - Not on the National Network	0
		(20) TOLL On Free Road	3
STRUCTURE TYPE AND MATERIAL		(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	3	(58) DECK	5
(46) NUMBER OF APPROACH SPANS	·	(59) SUPERSTRUCTURE	6
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	5
(108)WEARING SURFACE / PROTECTIVE SYSTEM:	OODL	(61) CHANNEL & CHANNEL PROTECTION	N
(A) TYPE OF WEARING SURFACE -	CODE	(62) CULVERTS	N
(B) TYPE OF MEMBRANE -	CODE	, ,	
(C) TYPE OF DECK PROTECTION -	CODE		CODE .
(c) THE OF BECK PROTECTION -	CODE	(31) DESIGN LOAD HS 20 + MOD	6
AGE AND SERVICE		(63) OPERATING RATING METHOD - Load Factor	1
(27) YEAR BUILT	1956	(64) OPERATING RATING - HS-30	54
(106)YEAR RECONSTRUCTED	1000	(65) INVENTORY RATING METHOD - Load Factor	1
(42) TYPE OF SERVICE : ON - Overpass - Interchange		(66) INVENTORY RATING - HS-18	32
	CODE 61	(70) BRIDGE POSTING - No Posting Required	5
UNDER - Highway (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	2	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	Α
	5800	DESCRIPTION - Open, No Restriction	CODE
(29) AVERAGE DAILY TRAFFIC	8%		CODE
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT	0 MI	(67) STRUCTURAL EVALUATION	5
(19) BYPASS OR DETOUR LENGTH	UMI	(68) DECK GEOMETRY	2
GEOMETRIC DATA	40 FT	(69) UNDERCLEARANCES, VERTI & HORIZ	3
(48) LENGTH OF MAXIMUM SPAN	46 FT	(71) WATERWAY ADEQUACY	N
(49) STRUCTURE LENGTH	126 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50) CURB OR SIDEWALK: LEFT 3.3 FT RIGHT	3.3 FT	(36) TRAFFIC SAFETY FEATURES	0111
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	28 FT	(113)SCOUR CRITICAL BRIDGES	N
(52) DECK WIDTH OUT TO OUT	36 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	24 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 7° (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 Highway	13.7 FT	(114) FUTURE ADT 11600 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Highway	10 FT	INSPECTIONS	
	0 FT		7/29/2013
(56) MIN LAT UNDERCLEAR LT REF -			0/20/1113
			172072010
(56) MIN LAT UNDERCLEAR LT REF - NAVIGATION DATA (38) NAVIGATION CONTROL - Not Applicable	CODE N	(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE	72072010
- NAVIGATION DATA - (38) NAVIGATION CONTROL - Not Applicable		(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE A) FRACTURE CRIT DETAIL - NO A)	7,20,20 10
—— NAVIGATION DATA (38) NAVIGATION CONTROL - Not Applicable (111) PIER PROTECTION -	CODE	(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE A) FRACTURE CRIT DETAIL - NO A) B) UNDERWATER INSP - NO B)	720720 10
- NAVIGATION DATA - (38) NAVIGATION CONTROL - Not Applicable		(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE A) FRACTURE CRIT DETAIL - NO A)	720720 10

Structure No: 800117 County: RUTHERFORD Run Date:

				ertical		¥			on			Traffic	ance		See Not	te 1					onte
	Chair railine	Feature Intersected	Inventory Route	Minimum Maximum V Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily	Total Horizontal Clear	Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STR	Direction of Traffic	Highway System of R
		6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	10
2		US 221	21002210	13.9	0	1	20221		2	2	6100	2013	44.33	Н	13.7	10		9	0	2	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 12/09/2014

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH:

RUTHERFORD 13 1 800117 126 FEET

ROUTE CARRIED: FEATURE INTERSECTED: US64 US221

LOCATED : BRIDGE NAME : 0.09 MI.W.JCT.SR1536 CITY :

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

06 FA NFA 5800 2013 LT 311 RT 311

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

1956 SHC 8812 F-231(5) HS 20 + MOD

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES: TAN 97 ON 2 UNDER 2

NAVIGATION: HT. CRN. TO BED: WATER DEPTH: $VC \quad 0 \quad \text{FT} \qquad VC \quad 0 \quad \text{FT} \qquad 0 \quad \text{FT}$

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/TIM.PILES;INT.BTS:RCP&B/PILE FOOTINGS

SPANS: 1 @ 39'; 1 @ 47'-6; 1 @ 39'

BEAMS OR GIRDERS: SPNS.1&3:3LNS.30 &2LNS.36 I-BMS;SPN2:5LNS.36 I-BMS @ 7' CTS

FLOOR: ENCROACHMENT: DECK (OUT TO OUT):

6.5 RC/5.5 AWS 10 WATER 36 FT

MAIN

BETWEEN RAILS: SIDEWALK OR CURB:

28 FT 34.5 FT LT 3.3 FT RT 3.3 FT

VERT.CL.OVER: 999.9 FT

CLEAR ROADWAY:

999.9 F I

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

 HS-18
 HS-30
 EB(B1)
 SV
 TTST
 DATE

HS-18 HS-30 EB(B1) SV TIST DATE

Damaged

SYSTEM:

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

UNDER ROUTES AND CLEARANCES

		Vertical CI	earances	Horizontal Clearances						
Span	Route Description	MMVC	MVC	Total	Left	Right				
2	US 221	13.90	13.70	44.33	0	10				

Note: All measurements are in feet.

REMARKS:

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BRIDGE L& A FORM1 (90)A BRIDGE INSPECTION RECORD AND SUMMARY Damage Inspection Report COUNTY RUTHERFORD BRIDGE NO. 800117 ROUTE US64 OVER US221 STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON I-BEAMS ROUTE ORIENTATION W-E SPANS 1@39'; 1@47'-6; 1@39' EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9) INSPECTION ITEM ITEM 61 **DECKITEMS GRADES** 45. CHANNEL a. WATERWAY & CHANNEL 1. WEARING SURFACE b. ALIGNMENT PROT. 2. DECK NO. a. CONCRETE c. SCOUR OF EA TYPE b. TIMBER d. SLOPE PROT., RIP-RAP, DIKES, ETC. SPN GRADE 50. APPROACH ROADWAY CONDITION c. STEEL PLANK RATES SI & A ITEM 58 51. APPROACH SLABS d. OPEN GRID CODE 3. RAILING a. CONCRETE 52. PAINT SYSTEM b. TIMBER 53. UTILITIES c. ALUMINUM 54. RESPONSE TO LIVE LOAD 55. ESTIMATED REMAINING LIFE d STEFL 5 4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS 5. WALKWAYS (ON OR ATTACHED TO STRUCTURE) 60. REGULATORY SIGN NOTICE ISSUED NO 6. DECK EXP a. STEEL PL OR FINGER 61. PROMPT-ACTION NOTICE ISSUED NO JTS. OR b. MISC PREFAB 62. PRESENTLY POSTED NO DEVICES NO. OF EACH C. COMPRESSION SEAL 63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR) 8 d. STANDARD JOINTS 64. TOTAL SNOOPER INSP. TIME (HRS) e OPEN JOINTS 65. TOTAL TRAFFIC CONTROL TIME (MAN HRS) 2 7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL) 70. SI&A GENERAL CONDITION RATINGS SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59 a. DECK ITEM 58 F ITEM 59 10. LONGITUDINAL BEAMS OR GIRDERS b. SUPERSTRUCTURE 6 11. LONGITUDINAL JOIST OR STRINGERS c. SUBSTRUCTURE ITEM 60 12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S F d. CHANNEL & CHANNEL PROT. ITEM 61 13. END DIAP'S, CURTAIN WALLS, & CONN'S F 14. FLOOR BEAMS AND CONNECTIONS 71. SI&A FIELD APPRAISAL RATINGS 15. BEARING ASSEMBLIES (INCLUDING MISALIGN) F a. WATERWAY ADAQUACY 16. DRAINAGE SYSTEM (ON STRUCTURE) b. APPR. RDWY. ALIGNMENT 17. MOVABLE SPAN MACHINERY 72. FIELD SCOUR EVALUATION SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR) a. ABUT. & INT. BENT CAPS & RISERS 35. TIM SUB USE OF INSP. ACCESSIBILITY EQUIPMENT STR. SNOOPER (CODE S, 4, OR N) b. PILES, POST, SILLS, & BRACING NO c. BULKHEADS, WING'S, & TIE BACKS LADDER NO 36. CONC a. ABUT. & INT. BENT CAPS BUCKET TRUCK YES SUB STR. b. ABUT. & BENT COL'S BREASTWALLS **BOAT** NO c. ABUT. & INT. BENT PILES OTHER NO d. BACKWALLS, WING'S, RETAIN, WALLS e. ABUT. & BENT FOOTINGS & SILLS a. ABUT. & INT. BENT CAPS & RISERS SPECIAL INSPECTION REQUESTED FOR 37. STEEL SUB STR. b. PILES, BRACING, AND BULKHEADS 38. FOUNDATION PILES TYPE MATERIAL NOTE 39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE) 1. Justici. 40. FENDER SYSTEMS 80. INSPECTED BY: 41. DRIFT 81. REVIEWED BY:

Bridge I&A Form 1(82)H			FIELD INSPECTION REPORT			
State of North Carolina			Bridge Inspecion & Analysis			
Dept. of Transportation Division of Highways						
DIVISION OF	nigiiways					
Team Leader	TERRY MEL	TON				
Assisted By	M.MCNEES	E				
Item No.	Grade					
10	F	IMPACT DAMAGE INSPECTION WAS REQUESTED BY DIVISION BRIDGE MAINTENANCE FOR SPAN 2 OVER US 221 BEAM 1: POINT OF IMPACT ON BEAM 1 IN SPAN 2 WAS 20'-2" FROM BENT 2 BEARING WITH SCATTERED MARKS AND SCRAPES ON THE FLANGE AND WEB ALONG A 2' AREA WITH PAINT MISSING ALONG BOTTOM FLANGE AND WEB AREA. BOTTOM FLANGE BENT DOWNWARD UP TO A 1/4". BEAM 1 IS OUT OF PLUMB 1 1/2" +/- TO THE NORTH AT 20'-2" FROM BENT 2 BEARING. OLDER IMPACT AREA AT 16.417' OUT FROM BENT 2 BEARING HAS 1'W X 1/2"DEEP DIVOT IN BOTTOM FLANGE. AREA AT 13.083' OUT FROM BENT 2 BEARING HAS SCRAPE MARKS WITH 1/8" DEEP SCRAPE TO BOTTOM FLANGE, AREA IS 2' LONG WITH PAINT SCRAPED OFF ON BOTTOM FLANGE AND WEB AREA.				
12	F	AND CRAC CON BEAM LOW END	M 2: IMPACT ON BEAM 2 HAS SCRAPE MARKS ON B 19.75' OUT FROM BEAM 2 BEARING. CK IN DIAPHRAGM CONNECTION FROM PREVIOUS I NECTION PLATE OF INTERMEDIATE DIAPHRAGMS - M 1 IN SPAN 2 AT 22'-0" FROM FACE OF BENT 2 HAS ER PART. DIAPHRAGMS AT BENT 2 HAVE CRACKING IN BAY1 HRAGM.	MPACT HAS NO CHANGE. DIAPHRAGM BRACKET ON A 2 5/8"+/- CRACK IN THE		
15	F	BEARINGS & ANCHOR BOLTS ON BEAM 1 IN SPAN 2 DID NOT SHOW ANY INDICATION OF DAMAGE DUE TO THE IMPACT				

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 800117 County RUTHERFORD Date: 10/21/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
5603	Partial Cleaning and Painting of Structural Steel	SF	20	IMPACT AREAS HAVE PAINT SCRAPED TO BARE METAL.	

Key









BEAM 1, BENT OUT OF PLUMB 1.5"



CRACK ON DIAPHRAGM CONNECTION BRACKET HAS NOT CHANGED FROM PREVIOUS HIT.



IMPACT AREA @ 20.167' OUT FROM BEARING AT BENT 2, AREA IS 2' LONG



BEAM 1, BOTTOM FLANGE BENT DOWNWARD, UP TO A 1/4"



ANOTHER VIEW OF IMPACT AREA



OLD IMPACT AREA @ 16.417' OUT FROM BENT 2 BEARING, DIVOT IS 1"WIDE X 1/2"DEEP IN BOTTOM FLANGE.



IMPACT ZONE 2, @ 13.083' OUT FROM BENT 2 BEARING, AREA IS 2' LONG



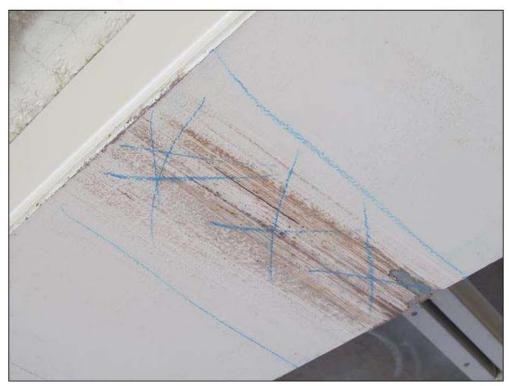
VIEW OF 1/8"DEEP OF SCRAPE TO BOTTOM FLANGE ON BEAM 1



END DIAPHRAGM IN BAY 1, AT BENT 2. CRACKED.



WATER LINE IN BAY 1



BEAM 2,@ 13.583' OUT FROM BENT 2 BEARING, SCRAPE MARKS.



BEAM 2, @ 19.75 FROM BENT 2 BEARING, SCRAPE MARKS



LOOKING UP AT BEAM 1 IMPACT AREA



LOOKING UP AT BEAM 2 IMPACT AREA



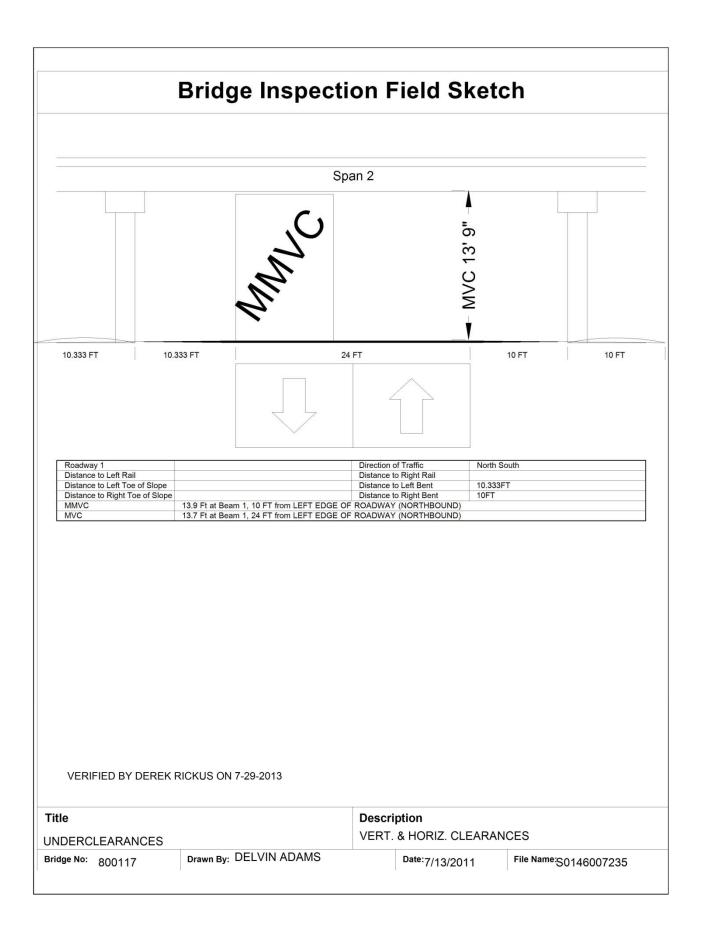
OVERVIEW OF IMPACT AREA

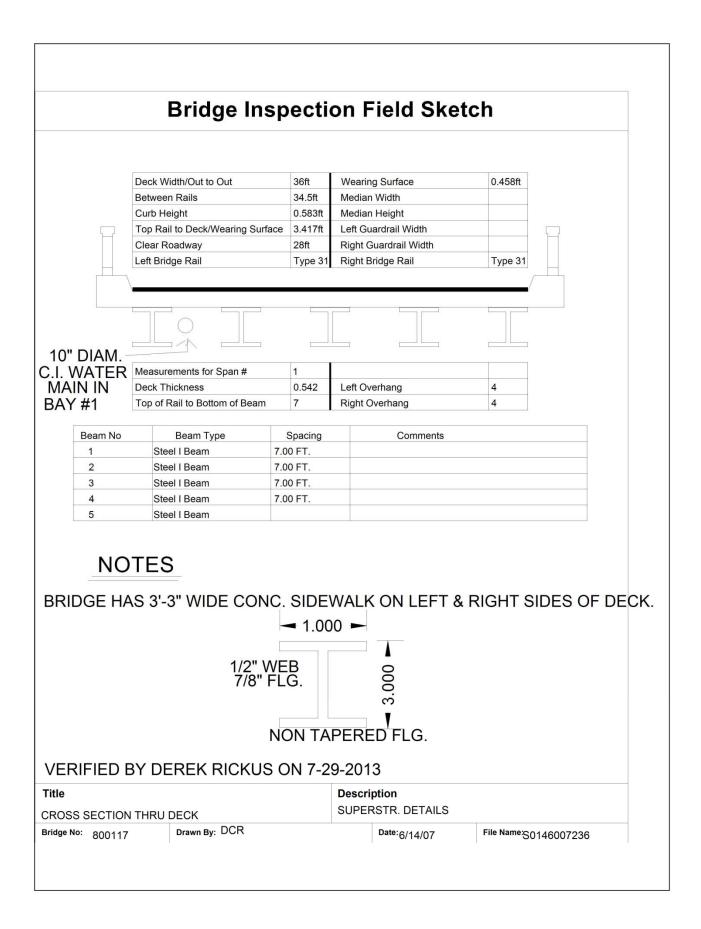
Bridge Inspection Field Sketch

Roadway	24ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED BY DEREK RICKUS ON 7-29-2013

Title			Description		
APPROACH			APPROACH RDWY.		
Bridge No: 800117 Drawn By: DCR			Date: 6/14/07	File Name:S0146007234	
	·				

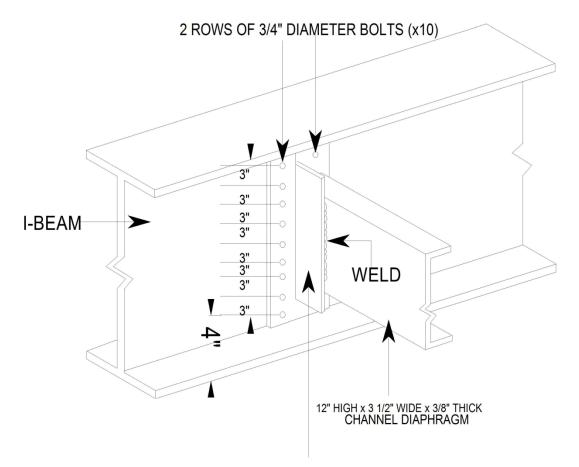




Bridge Inspection Field Sketch

DIAPHRAGM DETAILS

LOCATIONS: 1/3 POINTS OF SPANS



24" HIGH x 7 " WIDE x 9" DEEP (3/8" THICK) STEEL T-BRACKET WELDED TO WEB OF CHANNEL DIAPHRAGM AND BOLTED TO WEB OF BEAM

Title			Description		
diaph			details		
Bridge No: 800117	Drawn By: derek rickus	·	Date: 7/29/2013	File Name: \$0142002075	

Bridge Inspection Field Sketch Cap Information Material Length Width Height Left Overhang Right Overhang Left Beam to End of Cap. Right Beam to End of Cap. 32.000 ft. 2.500 ft. 4.000 ft. 4.000 ft. 1.333 ft. 1.333 ft. 2.500 ft. Subcap Information Material Length Width Left Overhang Left Pile to Splice. Height Right Overhang Material Sill Information Length Width Height Pile # Width/Dia. Height Material Spacing Collar? Length Orientation | Driven? | Replacement? | Removed? 12.0 ft. 2.5 ft. 2.5 ft. Vertical Concrete No No No No 2 Concrete 12.0 ft. 2.5 ft. 2.5 ft. Vertical No No No No Concrete 2.5 ft. 2.5 ft. Vertical No No No No Bent/Abutment #: Similar Bents: BENT 2 Title Description **BENT DETAILS** File Name: S0142002076 DEREK RICKUS Date: 7/29/2013 Bridge No: 800117

LOOKING NORTH