



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE X 2

Structure Safety Report

Routine Element Inspection

COUNTY: BUNCOMBE STRUCTURE NUMBER: 100100 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR2815 MILE POST:

LOCATION: .02 MI.E.JCT.SR2806

FEATURE INTERSECTED: ASHWORTH CREEK

LATITUDE: 35° 30' 56.91" LONGITUDE: 82° 23' 49.38"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE: ABUTS:REINFORCED CONC.

SPANS: 1 @ 42'

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 11/02/2016

POSTED SV: 17 POSTED TTST: 21

OTHER SIGNS PRESENT: DELINEATORS (4)



Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>NO</u>	DELINEATORS	<u>0</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION W-E

DIRECTION MATCHES PLANS NO PLANS

NORTH

INSPECTED BY ME.RENFRO	SIGNATURE 	ASSISTED BY BG.HEATH
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Structure Element Scoring

Structure Number: **100100**

Inspection Date **11/2/2016**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
31	0	Timber Deck	Deck	893	893	0	0	0
107	0	Steel Open Girder/Beam	Beam	378	144	224	10	0
515	107	Steel Protective Coating	Beam	1818	668	400	750	0
215	0	Reinforced Concrete Abutment	Abutments	91	79	12	0	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	35	27	8	0	0
313	0	Fixed Bearing	Bearing Device	18	0	18	0	0
332	0	Timber Bridge Railing	Bridge Rail	84	76	0	8	0
515	332	Steel Protective Coating	Bridge Rail	126	76	0	50	0
510	0	Wearing Surface	Wearing Surfaces	832	813	19	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 100100

Inspection Date: 11/02/2016

MMS Code	Element Name	Defect Name	Recommended Quantity
3314	Steel Open Girder/Beam	Cracking	10 Feet
3314	Steel Open Girder/Beam	Connection	4 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	12 Feet
3348	Reinforced Concrete Pile Cap/Footing	Delamination/Spall	8 Feet
3316	Timber Bridge Railing	Decay/Section Loss	8 Feet
2816	Wearing Surface	Crack (Wearing Surface)	19 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	1200 Square Feet

Element Structure Maintenance Quantities

Structure Number: **100100**

Inspection Date **11/02/2016**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	12	91	0	0	12	79
Beam	3314	Maintenance Steel Superstructure Components	14	378	0	10	224	144
Beam	3342	Clean and Paint Steel	1150	1818	0	750	400	668
Bearing Device	3334	Bridge Bearing	0	18	0	0	18	0
Bridge Rail	3316	Maintenance of Timber Bridge Rail	8	84	0	8	0	76
Bridge Rail	3342	Clean and Paint Steel	50	126	0	50	0	76
Deck	3324	Maintenance of Timber Deck Components	0	893	0	0	0	893
Footing	3348	Maintenance of Concrete Substructure	8	35	0	0	8	27
Wearing Surfaces	2816	Asphalt Surface Repair	19	832	0	0	19	813

Element Condition and Maintenance Data

Structure Number: 100100

Inspection Date: 11/02/2016

Span 1

Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	42	16	26	0	0 Feet
515	Steel Protective Coating	202	27	0	175	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Connection	PLATE WELDED TO BOTTOM OF WEB AND LEFT FLANGE AT ABUTMENT 1 15" LONG X 2" WIDE	2	1	1 Feet
107	Corrosion	SCATTERED PITTING	2	25	Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING, CRACKING	3	175	175 Square Feet
General Comments					

Span 1

Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	42	16	26	0	0 Feet
515	Steel Protective Coating	202	27	0	175	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Connection	PLATE WELDED TO BOTTOM OF WEB AND LEFT FLANGE AT ABUTMENT 1/ 15" LONG X 2" WIDE FLANGE / WEB 8" LONG X 8" WIDE /	2	1	1 Feet
107	Corrosion	SCATTERED PITTING	2	25	Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING, CRACKING	3	175	175 Square Feet
General Comments					

Span 1

Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	42	17	25	0	0 Feet
515	Steel Protective Coating	202	102	100	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	SCATTERED PITTING	2	25	Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING, CRACKING	2	100	100 Square Feet
General Comments					

Span 1**Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	17	25	0	0	Feet
515	Steel Protective Coating	202	102	100	0	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	SCATTERED PITTING	2	25			Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING, CRACKING	2	100	100		Square Feet
General Comments							

Span 1**Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	17	25	0	0	Feet
515	Steel Protective Coating	202	102	100	0	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	SCATTERED PITTING	2	25			Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING, CRACKING	2	100	100		Square Feet
General Comments							

Span 1**Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	17	25	0	0	Feet
515	Steel Protective Coating	202	102	100	0	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	SCATTERED PITTING	2	25			Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING, CRACKING	2	100	100		Square Feet
General Comments							

Span 1**Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	17	25	0	0	Feet
515	Steel Protective Coating	202	52	0	150	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	SCATTERED PITTING	2	25			Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING, CRACKING	3	150	150		Square Feet

General Comments**Span 1 Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	42	16	26	0	0 Feet
515	Steel Protective Coating	202	102	0	100	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Connection	PLATE WELDED TO BOTTOM OF WEB AND RIGHT FLANGE AT ABUTMENT 1/ 15" LONG X 2" WIDE FLANGE / WEB 8" LONG X 8" WIDE	2	1	1 Feet
107	Corrosion	SCATTERED PITTING	2	25	Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING, CRACKING	3	100	100 Square Feet

General Comments**Span 1 Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	42	11	21	10	0 Feet
515	Steel Protective Coating	202	52	0	150	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Cracking	10' LONG X 2 HIGH SECTION OF 1/16" LOSS TO THE OUTSIDE FACE OF WEB BEAM 9 AT 12' OUT FROM ABUTMENT 1	3	10	10 Feet
107	Connection	PLATE WELDED TO BOTTOM OF WEB AND RIGHT FLANGE AT ABUTMENT 1/ 15" LONG X 2" WIDE WEB AND FLANGE	2	1	1 Feet
107	Corrosion	SCATTERED PITTING	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	PITTING,BUBBLING,CRACKING	3	150	150 Square Feet

General Comments**Span 1 Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	832	813	19	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	SCATTERED CRACKING	2	19	19 Square Feet

General Comments

Span 1 Right Bridge Rail**Timber Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
332	Timber Bridge Railing	42	34	0	8	0	Feet
515	Steel Protective Coating	63	13	0	50	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Decay/Section Loss	UP TO 4" DEEP DECAY IN THE TIMBER WHEELGUARD AT THE EAST MOST END LENGTH 8'-8"	3	8	8	Feet
515	Effectiveness (Steel Protective Coatings)	PEELING,BUBBLING,CRACKING	3	50	50	Square Feet

General Comments

Span 1 Near Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	1/16" LOSS	2	1		Each

General Comments

Span 1 Far Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	1/16" LOSS	2	1		Each

General Comments

Span 1 Near Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	1/16" LOSS	2	1		Each

General Comments

Span 1 Far Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	1/16" LOSS	2	1	Each
General Comments					

Span 1 Near Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	1/16" LOSS	2	1	Each
General Comments					

Span 1 Far Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	1/16" LOSS	2	1	Each
General Comments					

Span 1 Near Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	PITTING	2	1	Each
General Comments					

Span 1 Far Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	PITTING	2	1	Each

Span 1		Near Bearing					
Fixed Bearing							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing		1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	PITTING	2	1	Each
General Comments					

Span 1		Far Bearing					
Fixed Bearing							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing		1	0	1	0	0 Each
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty
313	Corrosion	PITTING			2	1	Each
General Comments							

Span 1		Near Bearing					
Fixed Bearing							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing		1	0	1	0	0 Each
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty	
313	Corrosion	PITTING		2	1		Each
General Comments							

Span 1		Far Bearing					
Fixed Bearing							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing		1	0	1	0	0 Each
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty
313	Corrosion	PITTING			2	1	Each
General Comments							

Span 1 Near Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	1/16" LOSS	2	1	Each
General Comments					

Span 1 Far Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	1/16" LOSS	2	1	Each
General Comments					

Span 1 Near Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	PITTING	2	1	Each
General Comments					

Span 1 Far Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	PITTING	2	1	Each
General Comments					

Span 1 Near Bearing**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	1/16" LOSS	2	1	Each

Span 1 **Far Bearing**
Fixed Bearing

General Comments

End Bent 1	Reinforced Concrete Abutment 1
Reinforced Concrete Abutment	

General Comments

End Bent 2	Reinforced Concrete Abutment 1
Reinforced Concrete Abutment	

General Comments

End Bent 2	Reinforced Concrete Footing 1
Reinforced Concrete Footing	

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	893
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	42
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	42
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	42
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	42
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	42
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	42
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	42
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	42
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	42
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	42
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	42
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	832
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
End Bent 1		Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
End Bent 2		Reinforced Concrete Abutment	Reinforced Concrete Abutment	46
End Bent 2		Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	35

National Bridge and NC Inspection Items

Structure Number: 100100

Inspection Date: 11/02/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	G
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C			
Field Scour Evaluation		R		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	9		
Superstructure Paint Code		U		

Note: If NC SMU Inspection Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	5
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 100100

Inspection Date: 11/02/2016

Item	Priority Maintenance Issued	Grade	Y	Maint Code	Qty.	0
Details	PRIORITY MAINTENANCE X 2					



Span 1 Right Bridge Rail: UP TO 4" DEEP DECAY IN THE TIMBER WHEELGUARD AT THE EAST MOST END
LENGTH 8'-8" P/M



Span 1 Beam 8: 10' LONG X 2 HIGH SECTION OF 1/16" LOSS TO THE OUTSIDE FACE OF WEB BEAM 9 AT 12'
OUT FROM ABUTMENT 1 P/M



CRACKING IN WEARING SURFACE



PLATE WELDED TO BEAM 1



PLATE WELDED TO BEAM 2



PLATE WELDED TO BEAM 8



PLATE WELDED TO BEAM 9



NORTH



SOUTH



UPSTREAM



DOWNSTREAM



LOOKING UPSTREAM



LOOKING DOWNSTREAM



ABUTMENT 1



ABUTMENT 2



UNDERSIDE OF BRIDGE DECK



REP OF BEARINGS



REP OF WEIGHT LIMIT SIGN NORTH APPROACH

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

Run Date: 08/30/2017

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	100100	SUFFICIENCY RATING =		23.73
(8) STRUCTURE NUMBER(FEDERAL)	000000000210100	STATUS =		Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31028150				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2				
(3) COUNTY CODE 21 (4) PLACE CODE	22500				
(6) FEATURE INTERSECTED - ASHWORTH CREEK					
(7) FACILITY CARRIED SR2815					
(9) LOCATION .02 MI.E.JCT.SR2806					
(11)MILEPOINT	0				
(16)LAT 35° 30' 56.91"	(17)LONG 82° 23' 49.38"				
(98)BORDER BRIDGE STATE CODE	PCT SHARE				
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) STRUCTURE TYPE MAIN: Steel			(112)NBIS BRIDGE SYSTEM -	YES	
TYPE - Stringer Mutlibeam or Girder	CODE 302		(104)HIGHWAY SYSTEM Is not on NHS	0	
(44) STRUCTURE TYPE APPR :			(26) FUNCTIONAL CLASS - Local	19	
TYPE -	CODE 000		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0	
(45) NUMBER OF SPANS IN MAIN UNIT	1		(101)PARALLEL STRUCTURE - No Parallel Structure	N	
(46) NUMBER OF APPROACH SPANS			(102)DIRECTION OF TRAFFIC - 2-way Traffic	2	
(107)DECK STRUCTURE TYPE - 8	CODE		(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions	T	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	0	
(A) TYPE OF WEARING SURFACE -	CODE		(20) TOLL On Free Road	3	
(B) TYPE OF MEMBRANE -	CODE		(31) MAINTAIN - State Highway Agency	01	
(C) TYPE OF DECK PROTECTION -	CODE		(22) OWNER - State Highway Agency	01	
			(37) HISTORICAL SIGNIFICANCE - Not Eligible	5	
				CONDITION	
			(58) DECK	7	
			(59) SUPERSTRUCTURE	4	
			(60) SUBSTRUCTURE	6	
			(61) CHANNEL & CHANNEL PROTECTION	7	
			(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	0	
			(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P	
			DESCRIPTION - Posted for Load		
				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 760	(115) YEAR FUTURE ADT	2025
				INSPECTIONS	
			(90) INSPECTION DATE	11/02/2016	
			(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE	
			A) FRACTURE CRIT DETAIL - NO	A)	
			B) UNDERWATER INSP - NO	B)	
			C) OTHER SPECIAL INSP NO	C)	
			SCOUR		
NAVIGATION DATA					
(38) NAVIGATION CONTROL - No Navigational Control	CODE 0				
(111)PIER PROTECTION -	CODE				
(39) NAVIGATION VERTICAL CLEARANCE	0				
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT				
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT				

DATA ON EXISTING STRUCTURE

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :	
BUNCOMBE	13	2	100100	42	FEET

ROUTE CARRIED : SR2815 FEATURE INTERSECTED : ASHWORTH CREEK

LOCATED : .02 MI.E.JCT.SR2806
BRIDGE NAME :
CITY : *FAIRVIEW

FUNC. CLASS :		SYST.ON :		SYST.UNDER :		ADT & YR :		RAIL TYPE :			
19		NFA		NFA		380 2015		LT 227 RT 227			

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1956	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :				
	BMU	5.8451	TAN	90	ON	2	UNDER	0	

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 12 FT WATER DEPTH : 1 FT

SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE : ABUTS:REINFORCED CONC.

SPANS : 1 @ 42'

BEAMS OR GIRDERS : 9 LINES 18 I-BEAMS @ VAR.CTS.

FLOOR : 4X8 TIM/3.5
AWS

ENCROACHMENT :

DECK (OUT TO OUT) : 21.336 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
20.25 FT	20.917 FT	LT	.3 FT	RT	.3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :						
HS-1	HS-1	Int.bms	SV 17	TTST	21	DATE	10/27/2008		

SYSTEM : GREEN LINE ROUTE :
Secondary S.R. Route N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 100100

County BUNCOMBE

Date: 11/02/2016

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	10	Span 1 Beam 9: 10' LONG X 2 HIGH SECTION OF 1/16" LOSS TO THE OUTSIDE FACE OF WEB BEAM 9 AT 12' OUT FROM ABUTMENT 1 P/M	
 3316	Maint to Timber Handrail	LF	8	Span 1 Right Bridge Rail: UP TO 4" DEEP DECAY IN THE TIMBER WHEELGUARD AT THE EAST MOST END LENGTH 8'-8"	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100100 County BUNCOMBE

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

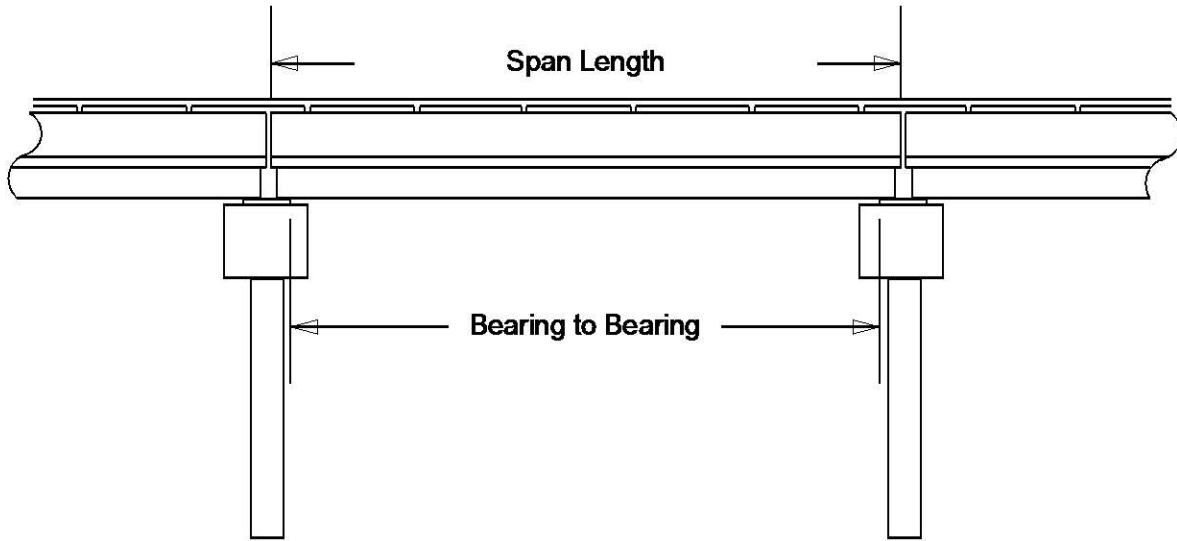
MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	10 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
11/02/2016	ME.RENFRO	
Details		
Span 1 Beam 9: 10' LONG X 2 HIGH SECTION OF 1/16" LOSS TO THE OUTSIDE FACE OF WEB BEAM 9 AT 12' OUT FROM ABUTMENT 1 P/M		

MMS Code	MMS Description	Quantity
3316	Maint to Timber Handrail	8 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
11/02/2016	ME.RENFRO	
Details		
Span 1 Right Bridge Rail: UP TO 4" DEEP DECAY IN THE TIMBER WHEELGUARD AT THE EAST MOST END LENGTH 8'-8"		

Structure Data Worksheet

Spans

County: BUNCOMBE Structure No: 100100 Date: 11/02/2016 Inspected By: MER



Span No	Span Length	Bearing to Bearing	Comments
1	42'- 0"	39'- 1"	N .B.I.S. LENGTH = 38'- 0"

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 100100 County: BUNCOMBE Date: 11/02/2016 By: MER

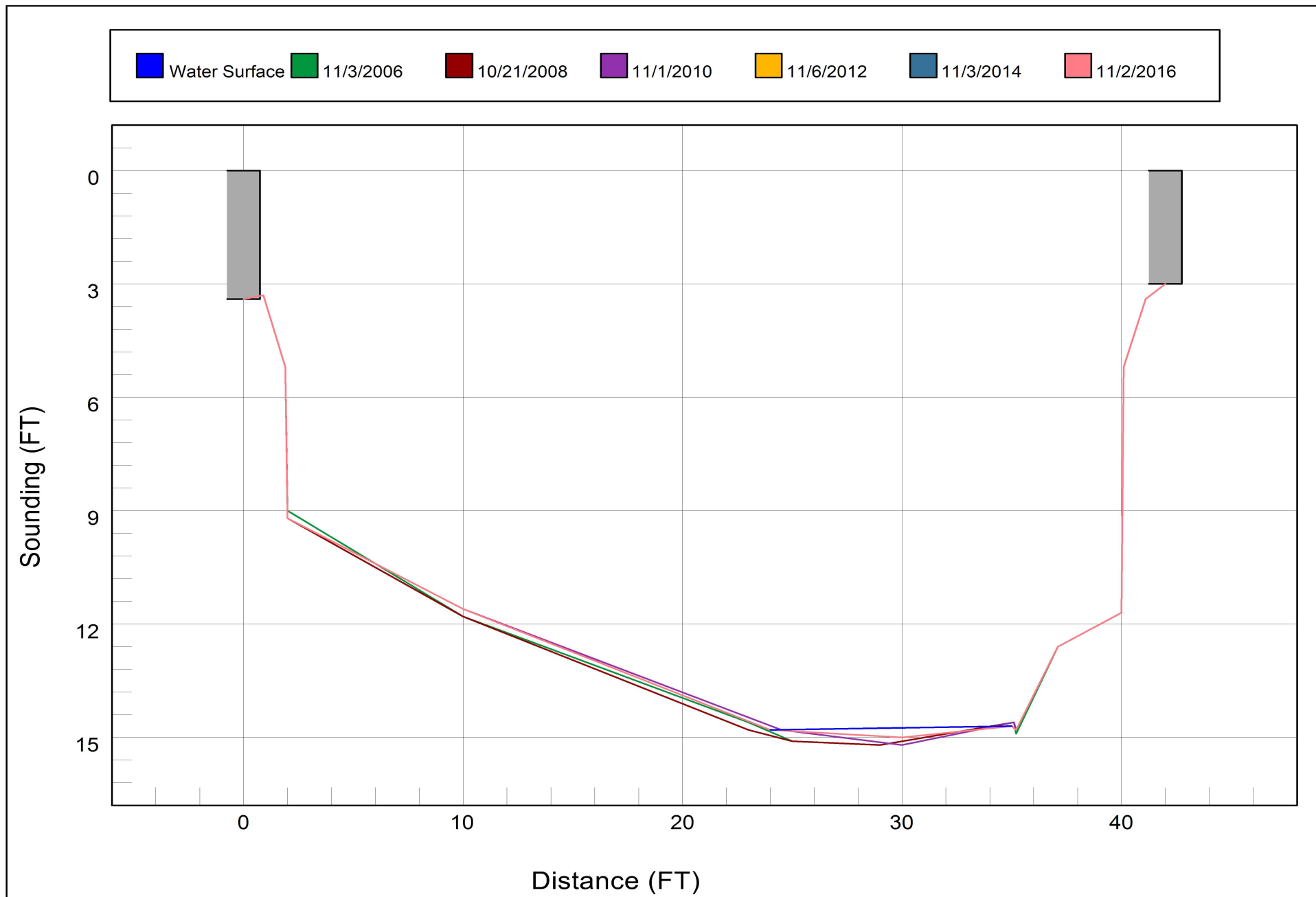
Record sounding from top of rail. Other location if needed: _____

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

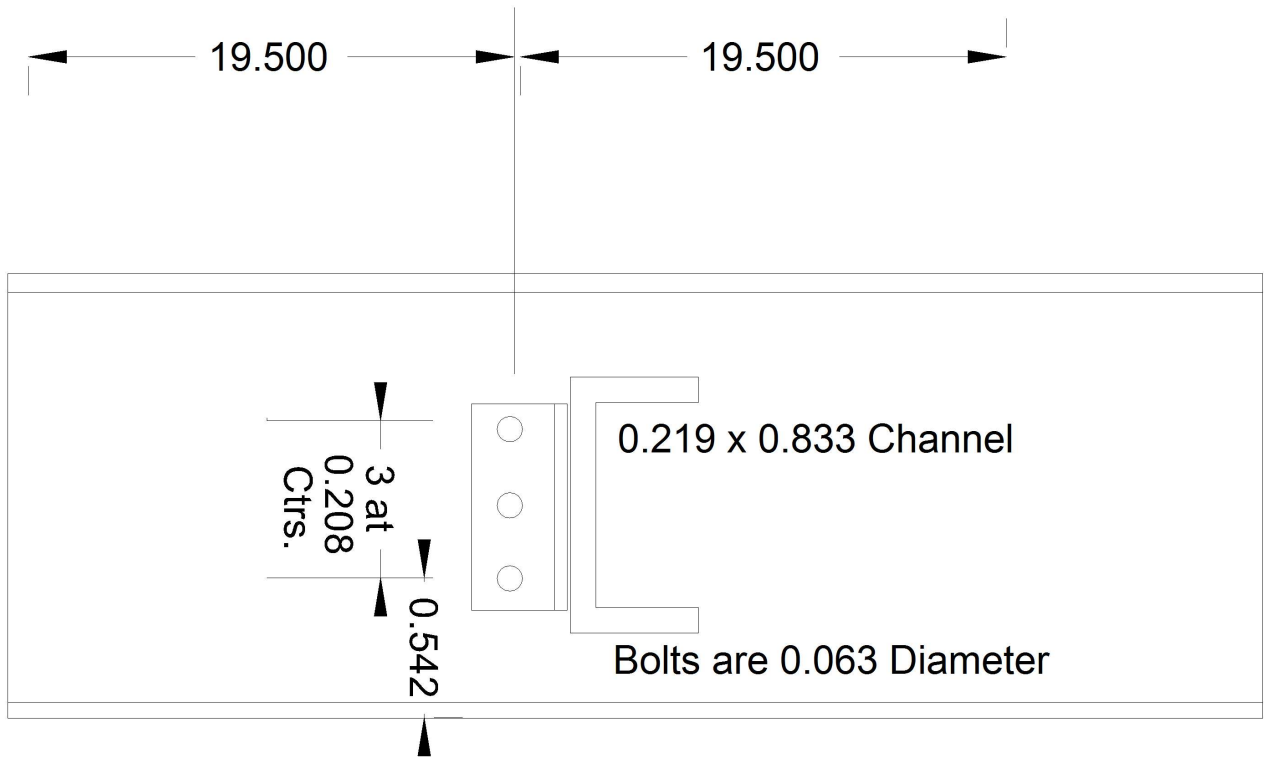
DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3.4	FF.END BENT 1			
0.9	3.3				
1.9	5.2	RAIL TO CAP			
2	9.2	S.F.	2	10.3	
10	11.6				
24	14.8	Water Surface/Water Edge (WSWE)			
30	15				
35	14.7	WS/WE			
35.2	14.8	FACE OF COLLAR			
37.1	12.6	FACE OF FOOTING			
40	11.7	S.F.	40	11.4	
40.1	5.2	RAIL TO CAP			
41.1	3.4				
42	3	FF.END BENT 2			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



ONE (1) LINE OF DIAPHRAGM IN ALL BAYS AT MIDSAPN

VERIFIED 11/2/2016 BY: ME.RENFRO

Title

DIAPHRAGM DATA

Description

DIAPHRAGM DATA

Bridge No: 100100

Drawn By: T.J.G.

Date: 10/23/08

File Name: S0110001276

Bridge Inspection Field Sketch



Roadway	17.000ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4ft Wide		4.000ft Unpaved
Right Shoulder	5ft Wide		5.000ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED 11/2/2016 BY: ME.RENFRO

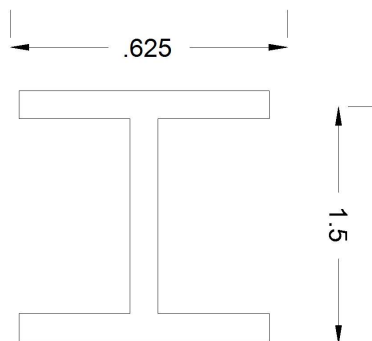
Title APPROACH ROADWAY		Description APPR. RDWAY DATA	
Bridge No: 100100	Drawn By: MER	Date: 10/23/08	File Name: S0114000757

Bridge Inspection Field Sketch

Deck Width/Out to Out	21.336ft	Wearing Surface	0.292ft
Between Rails	20.917ft	Median Width	
Curb Height	0.542ft	Median Height	
Top Rail to Deck/Wearing Surface	2.708ft	Left Guardrail Width	
Clear Roadway	20.25ft	Right Guardrail Width	
Left Bridge Rail	Type 22	Right Bridge Rail	Type 22

Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	1.000
Top of Rail to Bottom of Beam	5.167	Right Overhang	1.000

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.500ft	
2	Steel I Beam	2.333ft	
3	Steel I Beam	2.417ft	
4	Steel I Beam	2.417ft	
5	Steel I Beam	2.417ft	
6	Steel I Beam	2.500ft	
7	Steel I Beam	2.417ft	
8	Steel I Beam	2.417ft	
9	Steel I Beam		



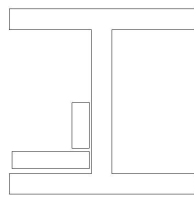
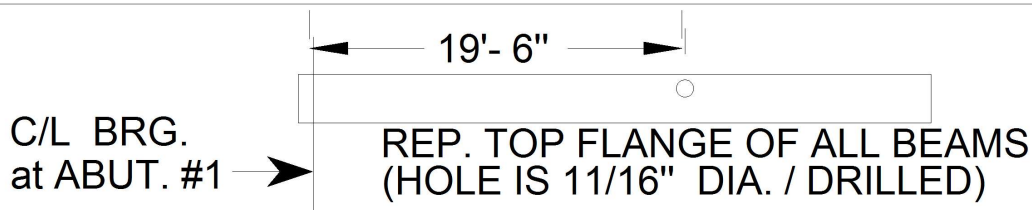
FLANGE THICKNESS = .036 (NON TAPERED)
WEB THICKNESS = .031

ABUTMENTS ARE REINFORCED CONCRETE

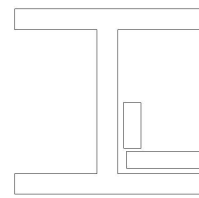
VERIFIED 11/2/2016 BY: ME.RENFRO

Title		Description	
TYPICAL SECTION		TYPICAL SECTION DATA	
Bridge No:	100100	Drawn By:	MER
Date:	10/23/08	File Name:	S0114000758

Bridge Inspection Field Sketch



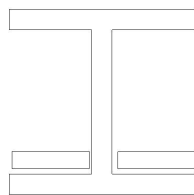
BEAM #1



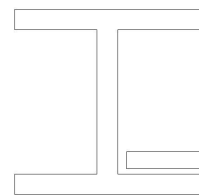
BEAM #9

REINFORCEMENT PLATES WELDED TO THE WEB & BOTTOM FLANGE ON THE LEFT SIDE OF THE WEB AT BEAM #1 & ON THE RIGHT SIDE OF THE WEB AT BEAM #9 ABOVE THEIR BEARING ON ABUT. #1

NOTE: PLATES ARE 1/4" THICK X 2 1/2" WIDE WITH PLATES BEING 1'- 3" LONG AT BEAM 1 & 1'- 5" LONG AT BEAM 9.



BEAM #2



BEAM #8

REINFORCEMENT PLATE WELDED TO THE BOTTOM FLANGE ON BOTH SIDES OF THE WEB AT BEAM #2 & ON THE RIGHT SIDE OF THE WEB AT BEAM #8 ABOVE THEIR BEARING ON ABUT. #1

NOTE: PLATE IS 1/4" THICK X 2 1/2" WIDE X 1'- 5" LONG

VERIFIED 11/2/2016 BY: ME.RENFRO

Title		Description	
HOLES & BEAM REINFORCEMENT		HOLES IN FLANGE & BEAM REINFORCEMENT	
Bridge No: 100100	Drawn By: T.J.G.	Date: 10/27/2008	File Name: S0114000759