



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **CRITICAL FIND (2) WEIGHT LIMIT SIGNS MISSING,
PMN'S ISSUED FOR SUBSTRUCTURE,
SUPERSTRUCTURE...**

Structure Safety Report

Routine Element Inspection

COUNTY: WATAUGA STRUCTURE NUMBER: 940278 FREQUENCY: 24 MONTHS
FACILITY CARRIED: SR1540 MILE POST: _____
LOCATION: 25 FT.W.JCT.US221,321
FEATURE INTERSECTED: CREEK
LATITUDE: 36° 10' 9.1" LONGITUDE: 81° 38' 47.88"
SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:TIM.CAPS/TIMBER POST&CONC.SILLS @ VAR.CENTERS

SPANS: 1 @ 45'- 6"
1 @ 45'-6

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

PRESENT CONDITION: Poor

INSPECTION DATE: 08/26/2015

POSTED SV: 16 Not Posted

POSTED TTST: 19 Not Posted

OTHER SIGNS PRESENT: 4 DEILINEATORS



Sign noticed issued for		Number Required
<u>YES</u>	WEIGHT LIMIT	<u>2</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>

WEST TO EAST

INSPECTED BY ANDREW GLASCO	SIGNATURE <i>Andrew P. Glasco</i>	ASSISTED BY MAX FORD
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BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE: **940278** COUNTY: **WATAUGA** DATE: **1/31/2008**

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	<i>T</i>	<i>TSG</i>
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	<i>3</i>	<i>TSG 3/31/08</i>
S I & A ITEM 64 OPERATING RATING		
HS <i>0</i> / BY: FK		
S I & A ITEM 66 - INVENTORY RATING		
HS <i>0</i> / BY: FK		

COMMENTS

POST #5,7 & 9 ARE SUPPLIMENTED AT ABUTMENT # 1.

NOT TEMP -TMS 09/17/15

Span Element Report

Structure Number: 940278

Inspection Date: 08/26/2015

Span Number 1

Span Length 45.5 Feet

Number of Beams/Girders: 12

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	1,388	1,208	0	180	0	180	3324
107		Steel Open Girder/Beam	540	0	0	540	0	540	3314
515	107	Steel Protective Coating	3048	1844	0	0	1204	1204	3342
216		Timber Abutment	80	32	0	43	5	48	3346
220		Reinforced Concrete Pile Cap/Footing	60	60	0	0	0	0	3348
228		Timber Pile	19	17	0	2	0	2	3344
235		Timber Pier Cap	62	62	0	0	0	0	3344
313		Fixed Bearing	22	22	0	0	0	0	3334
515	313	Steel Protective Coating	22	22	0	0	0	0	3342
332		Timber Bridge Railing	92	92	0	0	0	0	3316
510		Wearing Surface	1,343	671	0	672	0	672	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantities

Structure Number: 940278

Inspection Date: 08/26/2015

Structure Number: 940278

Inspection Date: 08/26/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	31	Timber Deck	1388	1208	0	180	0	180	3324	☒ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	46	46	0	0	0	0	3316	☐ Requested
☒ Bridge Rail	2	332	Timber Bridge Railing	46	46	0	0	0	0	3316	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	1343	671	0	672	0	672	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	2	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	0	0	0	254	254	3342	
☒ Beam	3	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	4	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	5	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	6	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	7	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	8	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	9	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	10	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Beam	11	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	104	0	0	150	150	3342	
☒ Beam	12	107	Steel Open Girder/Beam	45	0	0	45	0	45	3314	☒ Requested
Protective System		515	Steel Protective Coating	254	174	0	0	80	80	3342	
☒ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 940278

Inspection Date: 08/26/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	7	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	7	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	8	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	8	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	9	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	9	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	10	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	

Structure Number: 940278

Inspection Date: 08/26/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Bearing Device	10	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	11	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	11	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	12	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	12	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	

Superstructure Element Defect Descriptions

Structure Number: 940278

Inspection Date: 08/26/2015

Span Number 1

Span	Deck	1	Component Name:	Timber Deck						
Element: 31	Name	Timber Deck	Qty:	1388	Lvl 2:	0	Lvl 3	180	Lvl 4	0 Maint. Qty 180
Defect Description:										

180 Square Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. BEAM (10) TIMBER NAILER, SPLIT AND DECAYED FULL LENGTH ALONG TOP OF BEAM (+/- 45 SF) SIMILAR AT BEAM NAILERS (9, 11 & 12) FULL LENGTH

Span	Wearing Surfaces		Component Name:	Asphalt Wearing Surface						
Element: 510	Name	Wearing Surface	Qty:	1343	Lvl 2:	0	Lvl 3	672	Lvl 4	0 Maint. Qty 672
Defect Description:										

672 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. TRANSVERSE CRACKS ALONG DECK BOARDS

Span	Beam	1	Component Name:	Plate Girder						
Element: 107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty 45
Defect Description:										

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (1) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (1) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION

Span	Beam	2	Component Name:	Plate Girder						
Element: 107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty 45
Defect Description:										

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (2) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO WEB FULL HEIGHT WITH (+/- 1/16") LOSS OF SECTION

254 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (2) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO WEB FULL HEIGHT WITH (+/- 1/16") LOSS OF SECTION

Span	Beam	3	Component Name:	Plate Girder						
Element: 107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty 45
Defect Description:										

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (3) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (3) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION

Span	Beam	4	Component Name:	Plate Girder						
Element: 107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty 45
Defect Description:										

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (4)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING
SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF
SECTION

Span	1	Beam	5	Component Name:				Plate Girder				
Element:	107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty	45
Defect Description:												

Defect Description:

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (5)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING
SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4") WITH (+/- 1/16") LOSS OF
SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (5)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING
SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4") WITH (+/- 1/16") LOSS OF
SECTION

Span	1	Beam	6	Component Name:		Plate Girder						
Element:	107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty	45
Defect Description:												

Defect Description:

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (6)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION
(+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/ 1/16") LOSS OF SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (6)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION
(+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/ 1/16") LOSS OF SECTION

Span	1	Beam	7	Component Name:				Plate Girder				
Element:	107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty	45
Defect Description:												

Defect Description:

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (7)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION
(+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/ 1/16") LOSS OF SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (7)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION
(+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/ 1/16") LOSS OF SECTION

Span	1	Beam	8	Component Name:		Plate Girder						
Element:	107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty	45
Defect Description:												

Defect Description:

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (8)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION
(+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 2" H) WITH (+/ 1/16") LOSS OF SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (8)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION
(+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 2" H) WITH (+/ 1/16") LOSS OF SECTION

Span	1	Beam	9	Component Name:		Plate Girder						
Element:	107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty	45
Defect Description:												

Defect Description:

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (9)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING
SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF
SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (9)

CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION

Span	1	Beam	10	Component Name:		Plate Girder						
Element:	107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty	45
Defect Description:												

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (10) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (10) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION

Span	1	Beam	11	Component Name:				Plate Girder				
Element:	107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty	45
Defect Description:												

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (11) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION

150 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (11) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION

Span	1	Beam	12	Component Name:				Plate Girder				
Element:	107	Name	Steel Open Girder/Beam	Qty:	45	Lvl 2:	0	Lvl 3	45	Lvl 4	0 Maint. Qty	45
Defect Description:												

45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (12) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION

80 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (12) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION

Substructure Detailed Element Quantities

Structure Number: 940278
End Bent 1

Inspection Date: 08/26/2015

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	216	Timber Abutment	40	20	0	20	0	20	3346	☒ Requested
☒ Caps	1	235	Timber Pier Cap	31	31	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Footing	1	220	Reinforced Concrete Pile Cap/Footing	30	30	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	0	1	0	1	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	7	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	8	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	9	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	10	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	11	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Structure Number: 940278

Inspection Date: 08/26/2015

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	216	Timber Abutment	40	12	0	23	5	28	3346	☒ Requested
☒ Footing	1	220	Reinforced Concrete Pile Cap/Footing	30	30	0	0	0	0	3348	☐ Requested
☒ Caps	1	235	Timber Pier Cap	31	31	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	7	228	Timber Pile	1	0	0	1	0	1	3344	☒ Requested
☒ Piles and Columns	8	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 940278

Inspection Date: 08/26/2015

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 216 Name Timber Abutment Qty: 40 Lvl 2: 0 Lvl 3: 20 Lvl 4: 0 Maint. Qty: 20

Defect Description:

3 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 3 LF) BETWEEN POST (3 & 4)

5 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. LEFT END ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 5 LF)

6 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. RIGHT END ABUT. (A) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)

6 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (A) BULKHEAD BAYS (4 & 5) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)

End Bent 1	Row 1	Footings	1
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Element: 220 Name Reinforced Concrete Pile Cap/F Qty: 30 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

NOT VISIBLE

End Bent 1	Row 1	Piles and Columns	4
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Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3: 1 Lvl 4: 0 Maint. Qty: 1

Defect Description:

1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (A) POST (4) NORTH FACE DECAYED (+/- 3') FROM G/L AND EXTENDS (+/- 2' H X 3" D)

End Bent 1	Row 1	Piles and Columns	6
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Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

POST IS SUPPLEMENTED

End Bent 1	Row 1	Piles and Columns	8
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Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

POST IS SUPPLEMENTED

End Bent 1	Row 1	Piles and Columns	10
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Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

POST IS SUPPLEMENTED

End Bent 2	Row 1	Abutments	1
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Element: 216 Name Timber Abutment Qty: 40 Lvl 2: 0 Lvl 3: 23 Lvl 4: 5 Maint. Qty: 28

Defect Description:

5 Feet of Decay/Section Loss: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. LEFT END ABUT. (B) BULKHEAD (2) RETAINING POST BROKEN, DISTORTED AND PULLED AWAY FROM BULKHEAD FULL HEIGHT X 5' L.

12 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (B) (1) BOARD DECAYED (+/- 12 LF) WITH LOSS OF FILL, DECAY EXTENDS FROM POST (3 - 6)

5 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. RIGHT END ABUT. (B) (3) BOARDS DECAYED (+/- 5 LF)

Structure Number: 940278

Inspection Date: 08/26/2015

6 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (B) BAYS (4 & 5) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 6 LF)

End Bent 2	Row 1	Piles and Columns	7
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Element: 228	Name Timber Pile	Qty: 1	Lvl 2: 0	Lvl 3: 1	Lvl 4: 0	Maint. Qty: 1
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Defect Description:

1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (B) POST (7) DECAYED FULL HEIGHT (+/- 8' H X 3" D)

National Bridge and NC Inspection Items

Structure Number: 940278

Inspection Date: 08/26/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	4
Item 59: Superstructure	0 - 9 , N	3
Item 60: Substructure	0 - 9 , N	4
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	G		
Slope Protection	G, F, P, or C	G	0	3352
Wingwall	G, F, P, or C	P	100	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	P		
Estimated Remaining Life	0 - 100 Years	1		

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	Y
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	10
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Y
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: 940278

Inspection Date: 08/26/2015

Item	Deck - Item 58	Grade	4	Maint Code	Qty.	0
Details	PMN'S ISSUED FOR TIMBER NAILERS					
Item	Superstructure - Item 59	Grade	3	Maint Code	Qty.	0
Details	PMN'S ISSUED FOR SUPERSTRUCTURES					
Item	Substructure - Item 60	Grade	4	Maint Code	Qty.	0
Details	PMN'S ISSUED FOR SUBSTRUCTURE					
Item	Regulatory Sign Notice Issued	Grade	Y	Maint Code	Qty.	0
Details	MISSING (2) WEIGHT LIMIT SIGNS.					
Item	Priority Maintenance Issued	Grade	Y	Maint Code	Qty.	0
Details	PMN'S ISSUED FOR DECK, SUBSTRUCTURE, SUPERSTRUCTURE...					
Item	Presently Posted	Grade	N	Maint Code	Qty.	0
Details	NOT POSTED SIGNS MISSING.					
Item	Utilities	Grade	G	Maint Code	Qty.	0
Details	(1") UTILITY ALONG RIGHT RAIL					
Item	Response to live load	Grade	P	Maint Code	Qty.	0
Details	BEAMS ARE SAGGING (+/- 1/2") ADDITIONAL VERTICAL MOVEMENT UNDER TRUCK LOAD (+/- 3/4")					
Item	Wingwalls	Grade	P	Maint Code	3350	Qty. 100
Details	SOUTH WEST WING (5) BOARDS DECAYED WITH LOSS OF FILL (+/- 50 SF)					
	SOUTH EAST WING (5) BOARDS AND RETAINING POST DECAYED WITH LOSS OF FILL (+/- 50 SF)					



Span 1 Wearing Surface: 672 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. TRANSVERSE CRACKS ALONG DECK BOARDS



SOUTH WEST WING (5) BOARDS DECAYED WITH LOSS OF FILL (+/- 50 SF)



SOUTH EAST WING (5) BOARDS AND RETAINING POST DECAYED WITH LOSS OF FILL (+/- 50 SF)



End Bent 2 Abutment/Backwall : 5 Feet of Decay/Section Loss: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. LEFT END ABUT. (B) BULKHEAD (2) RETAINING POST BROKEN, DISTORTED AND PULLED AWAY FROM BULKHEAD FULL HEIGHT X 5' L.



End Bent 2 Abutment/Backwall : 12 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (B) (1) BOARD DECAYED (+/- 12 LF) WITH LOSS OF FILL, DECAY EXTENDS FROM POST (3 - 6)



End Bent 2 Abutment/Backwall : 5 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. RIGHT END ABUT. (B) (3) BOARDS DECAYED (+/- 5 LF)



End Bent 2 Pile 7: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (B) POST (7) DECAYED FULL HEIGHT (+/- 8' H X 3" D)



End Bent 2 Pile 7: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (B) POST (7) DECAYED FULL HEIGHT (+/- 8' H X 3" D)



End Bent 2 Abutment/Backwall : 6 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (B) BAYS (4 & 5) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 6 LF)



End Bent 1 Pile 4: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (A) POST (4) NORTH FACE DECAYED (+/- 3') FROM G/L AND EXTENDS (+/- 2' H X 3" D)



End Bent 1 Abutment/Backwall : 3 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 3 LF) BETWEEN POST (3 & 4)



End Bent 1 Abutment/Backwall : 5 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. LEFT END ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 5 LF)



End Bent 1 Abutment/Backwall : 6 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. RIGHT END ABUT. (A) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)



Span 1 Beam 1: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 2: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (2) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO WEB FULL HEIGHT WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 3: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (3) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 4: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 5: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (5) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4") WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 6: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (6) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 7: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (7) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 8: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (8) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 2" H) WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 9: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (9) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 10: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (10) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 11: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (11) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION



Span 1 Beam 12: 45 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (12) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION



End Bent 1 Abutment/Backwall : 6 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUT. (A) BULKHEAD BAYS (4 & 5) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)



Span 1 Deck: 180 Square Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. BEAM (10) TIMBER NAILER, SPLIT AND DECAYED FULL LENGTH ALONG TOP OF BEAM (+/- 45 SF) SIMILAR AT BEAM NAILERS (9, 11 & 12) FULL LENGTH



MISSING (2) WEIGHT LIMIT SIGNS...



WEST TO EAST



DOWNSTREAM



UPSTREAM



LOOKING WEST



SOUTH PROFILE



ABUTMENT B



ABUTMENT A



NORTH PROFILE



FIXED BEARING, ALL SIMILAR.



SUPERSTRUCTURE

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	940278	SUFFICIENCY RATING =	35.8	
(8) STRUCTURE NUMBER(FEDERAL)	000000001890278		STATUS =	Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31015400				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2		CLASSIFICATION	CODE	
(3) COUNTY CODE 189 (4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -	YES	
(6) FEATURE INTERSECTED - MIDDLE FORK S.FORK NEW RV			(104)HIGHWAY SYSTEM Is not on NHS	0	
(7) FACILITY CARRIED SR1540			(26) FUNCTIONAL CLASS - Local	09	
(9) LOCATION 25 FT.W.JCT.US221,321			(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0	
(11)MILEPOINT	0		(101)PARALLEL STRUCTURE - No Parallel Structure	N	
(16)LAT 36° 10' 9.10" (17)LONG 81° 38' 47.88"			(102)DIRECTION OF TRAFFIC - 2-way Traffic	2	
(98)BORDER BRIDGE STATE CODE	PCT SHARE		(103)TEMPORARY STRUCTURE -		
(99)BORDER BRIDGE STRUCTURE NO			(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	0	
			(20) TOLL On Free Road	3	
			(31) MAINTAIN - State Highway Agency	01	
			(22) OWNER - State Highway Agency	01	
			(37) HISTORICAL SIGNIFICANCE - Not Eligible	5	
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE MAIN: Steel					
TYPE - Stringer Multibeam or Girder	CODE	302			
(44) STRUCTURE TYPE APPR :			CONDITION	CODE	
TYPE -	CODE	000	(58) DECK	4	
(45) NUMBER OF SPANS IN MAIN UNIT	1		(59) SUPERSTRUCTURE	3	
(46) NUMBER OF APPROACH SPANS			(60) SUBSTRUCTURE	4	
(107)DECK STRUCTURE TYPE - 8	CODE		(61) CHANNEL & CHANNEL PROTECTION	7	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(62) CULVERTS	N	
(A) TYPE OF WEARING SURFACE -	CODE				
(B) TYPE OF MEMBRANE -	CODE		LOAD RATING AND POSTING	CODE	
(C) TYPE OF DECK PROTECTION -	CODE		(31) DESIGN LOAD Unknown	0	
			(63) OPERATING RATING METHOD - Load Factor	1	
			(64) OPERATING RATING - HS-8	14	
			(65) INVENTORY RATING METHOD - Load Factor	1	
			(66) INVENTORY RATING - HS-4	8	
			(70) BRIDGE POSTING - Posting Required	0	
			(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P	
			DESCRIPTION - Posted for Load		
AGE AND SERVICE					
(27) YEAR BUILT	1961				
(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	80		APPRAISAL	CODE	
(30) YEAR OF ADT 1995 (109) TRUCK ADT PCT	%		(67) STRUCTURAL EVALUATION	3	
(19) BYPASS OR DETOUR LENGTH	99 MI		(68) DECK GEOMETRY	7	
			(69) UNDERCLEARANCES,VERTI & HORIZ	N	
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN	44 FT		(71) WATERWAY ADEQUACY	7	
(49) STRUCTURE LENGTH	46 FT		(72) APPROACH ROADWAY ALIGNMENT	8	
(50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT			(36) TRAFFIC SAFETY FEATURES	0000	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	29.5 FT		(113)SCOUR CRITICAL BRIDGES	U	
(52) DECK WIDTH OUT TO OUT	30.5 FT				
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	28 FT		PROPOSED IMPROVEMENTS	CODE	
(33) BRIDGE MEDIAN - No Median	CODE	0	(75) TYPE OF WORK -		
(34) SKEW 0° (35) STRUCTURE FLARED	0		(76) LENGTH OF STRUCTURE IMPROVEMENT		
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT		(94) BRIDGE IMPROVEMENT COST		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	29.5 FT		(95) ROADWAY IMPROVEMENT COST		
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT		(96) TOTAL PROJECT COST		
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE		
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT		(114)FUTURE ADT 160 (115) YEAR FUTURE ADT 2025		
(56) MIN LAT UNDERCLEAR LT REF -	000 FT				
NAVIGATION DATA					
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0	INSPECTIONS		
(111)PIER PROTECTION -	CODE		(90) INSPECTION DATE	08/26/2015	
(39) NAVIGATION VERTICAL CLEARANCE	0		(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT		A) FRACTURE CRIT DETAIL - NO	A)	
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT		B) UNDERWATER NSP - NO	B)	
			C) OTHER SPECIAL INSP NO	C)	
			SCOUR		

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 12/31/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
WATAUGA	11	2	940278	46	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1540	MIDDLE FORK S.FORK NEW RV

LOCATED :	BRIDGE NAME :	CITY :
25 FT.W.JCT.US221,321		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	80 1995	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1961	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 12 FT 1 FT		

SUPERSTRUCTURE :	TIMBER FLOOR ON I-BEAMS
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SUBSTRUCTURE :	E.BTS:TIM.CAPS/TIMBER POST&CONC.SILLS @ VAR.CENTERS
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SPANS :	1 @ 45'-6
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BEAMS OR GIRDERS :	12 LINES 18 I-BEAMS @ 2'-7.125 CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/2.5 AWS		30.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
29.5 FT	30.167 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	13	DATE	09/08/2015
HS-4	HS-8	IntBm(# 3)Sec.Loss	SV 10				

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3250	Install or Replace Ground Mounted Signs	SF	2	MISSING (2) WEIGHT LIMIT SIGNS...	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (1) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (2) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO WEB +/- FULL HEIGHT WITH (+/- 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (3) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (5) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4") WITH (+/- 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (6) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

Date:

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	45	BEAM (7) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/ 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (8) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 2" H) WITH (+/ 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (9) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (10) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (11) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION	
 3314	Maintain Steel Superstructure Components	LF	45	BEAM (12) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION	
 3324	Maint / Repair / Replace Timber Deck Components	SF	180	BEAM (10) TIMBER NAILER, SPLIT AND DECAYED FULL LENGTH ALONG TOP OF BEAM (+/- 45 SF) SIMILAR AT BEAM NAILERS (9, 11 & 12) F/L (+/- 180 SF) TOTAL	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3344	Repair / Replace Timber Substructure Components	LF	8	ABUT. (B) POST (7) DECAYED FULL HEIGHT (+/- 8' H X 3" D)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	50	SOUTH WEST WING (5) BOARDS DECAYED WITH LOSS OF FILL (+/- 50 SF)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	50	SOUTH EAST WING (5) BOARDS AND RETAINING POST DECAYED WITH LOSS OF FILL (+/- 50 SF)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	50	LEFT END ABUT. (B) BULKHEAD (2) RETAINING POST BROKEN, DISTORTED AND PULLED AWAY FROM BULKHEAD (+/- FULL HEIGHT X 5' L)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	12	ABUT. (B) (1) BOARD DECAYED (+/- 12 LF) WITH LOSS OF FILL, DECAY EXTENDS FROM POST (3 - 6)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	15	RIGHT END ABUT. (B) (3) BOARDS DECAYED (+/- 5 LF)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	6	ABUT. (B) BAYS (4 & 5) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 6 LF)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	3	ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 3 LF) BETWEEN POST (3 & 4)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	5	LEFT END ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 5 LF)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	6	RIGHT END ABUT. (A) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	6	ABUT. (A) BULKHEAD BAYS (4 & 5) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3250	Install or Replace Ground Mounted Signs	2 SF
Location:		
Slope	Bent/Span No. 1	WEIGHT LIMIT SIGNS
Priority Level	Status	
Critical Finding	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
MISSING (2) WEIGHT LIMIT SIGNS...		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (1)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (1) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (2)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (2) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO WEB +/- FULL HEIGHT WITH (+/- 1/16") LOSS OF SECTION		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (3)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (3) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (4)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (5)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (5) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4") WITH (+/- 1/16") LOSS OF SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (6)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (6) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (7)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (7) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 4" H) WITH (+/- 1/16") LOSS OF SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (8)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (8) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 2" H) WITH (+/- 1/16") LOSS OF SECTION		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (9)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (9) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (10)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (10) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (11)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (11) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 8") WITH (+/- 1/16") LOSS OF SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	45 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (12)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (12) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4") . CORROSION EXTENDS INTO BOTTOM PORTION OF WEB (+/- 3") WITH (+/- 1/16") LOSS OF SECTION		

MMS Code	MMS Description	Quantity
3324	Maint / Repair / Replace Timber Deck Components	180 SF
Location:		
Deck Membrane	Bent/Span No. 1	TIMBER NAILERS (9 - 12)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (10) TIMBER NAILER, SPLIT AND DECAYED FULL LENGTH ALONG TOP OF BEAM (+/- 45 SF) SIMILAR AT BEAM NAILERS (9, 11 & 12) F/L (+/- 180 SF) TOTAL		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	8 LF
Location:		
Abutment Substructure	Bent/Span No. 2	ABUT. (B) POST (7)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
ABUT. (B) POST (7) DECAYED FULL HEIGHT (+/- 8' H X 3" D)		

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhdrs	50 SF
Location:		
Abutment Substructure	Bent/Span No. 1	SOUTH WEST WING
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
SOUTH WEST WING (5) BOARDS DECAYED WITH LOSS OF FILL (+/- 50 SF)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	50 SF
Location:		
Abutment Substructure	Bent/Span No. 2	SOUTH EAST WING
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
SOUTH EAST WING (5) BOARDS AND RETAINING POST DECAYED WITH LOSS OF FILL (+/- 50 SF)		

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	50 SF
Location:		
Abutment Substructure	Bent/Span No. 2	ABUT. (B) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
LEFT END ABUT. (B) BULKHEAD (2) RETAINING POST BROKEN, DISTORTED AND PULLED AWAY FROM BULKHEAD (+/- FULL HEIGHT X 5' L)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	12 SF
Location:		
Abutment Substructure	Bent/Span No. 2	ABUT. (B) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
ABUT. (B) (1) BOARD DECAYED (+/- 12 LF) WITH LOSS OF FILL, DECAY EXTENDS FROM POST (3 - 6)		

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	15 SF
Location:		
Abutment Substructure	Bent/Span No. 2	ABUT. (B) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
RIGHT END ABUT. (B) (3) BOARDS DECAYED (+/- 5 LF)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	6 SF
Location:		
Abutment Substructure	Bent/Span No. 2	ABUT. (B) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
ABUT. (B) BAYS (4 & 5) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 6 LF)		

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	3 SF
Location:		
Abutment Substructure	Bent/Span No. 1	ABUT. (A) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 3 LF) BETWEEN POST (3 & 4)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhdrs	5 SF
Location:		
Abutment Substructure	Bent/Span No. 1	ABUT. (A) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
LEFT END ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 5 LF)		

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhdrs	6 SF
Location:		
Abutment Substructure	Bent/Span No. 1	ABUT. (A) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
RIGHT END ABUT. (A) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940278

County WATAUGA

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	6 SF
Location:		
Abutment Substructure	Bent/Span No. 1	ABUT. (A) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
08/26/2015	ANDREW GLASCO	MAX FORD
Details		
ABUT. (A) BULKHEAD BAYS (4 & 5) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)		



SOUTH WEST WING (5) BOARDS DECAYED WITH LOSS OF FILL (+/- 50 SF)



SOUTH EAST WING (5) BOARDS AND RETAINING POST DECAYED WITH LOSS OF FILL (+/- 50 SF)



LEFT END ABUT. (B) BULKHEAD (2) RETAINING POST BROKEN, DISTORTED AND PULLED AWAY FROM BULKHEAD FULL HEIGHT X 5' L.



ABUT. (B) (1) BOARD DECAYED (+/- 12 LF) WITH LOSS OF FILL, DECAY EXTENDS FROM POST (3 - 6)



RIGHT END ABUT. (B) (3) BOARDS DECAYED (+/- 5 LF)



ABUT. (B) POST (7) DECAYED FULL HEIGHT (+/- 8' H X 3" D)



ABUT. (B) POST (7) DECAYED FULL HEIGHT (+/- 8' H X 3" D)



ABUT. (B) BAYS (4 & 5) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 6 LF)



ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 3 LF) BETWEEN POST (3 & 4)



LEFT END ABUT. (A) (1) BOARD DECAYED WITH LOSS OF FILL (+/- 5 LF)



RIGHT END ABUT. (A) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)



BEAM (1) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16") .



BEAM (2) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4")



BEAM (3) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4")



BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4")



BEAM (5) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4")



BEAM (6) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16")



BEAM (7) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16")



BEAM (8) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 1/4") LOSS OF SECTION AND A REMAINING SECTION (+/- 5/16")



BEAM (9) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4")



BEAM (10) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4")



BEAM (11) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4")



BEAM (12) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 5/16 ") LOSS OF SECTION AND A REMAINING SECTION (+/- 1/4")



ABUT. (A) BULKHEAD BAYS (4 & 5) (2) BOARDS DECAYED WITH LOSS OF FILL (+/- 6 LF)



BEAM (10) TIMBER NAILER, SPLIT AND DECAYED FULL LENGTH ALONG TOP OF BEAM (+/- 45 SF) SIMILAR AT BEAM NAILERS (9, 11 & 12) F/L (+/- 180 SF) TOTAL

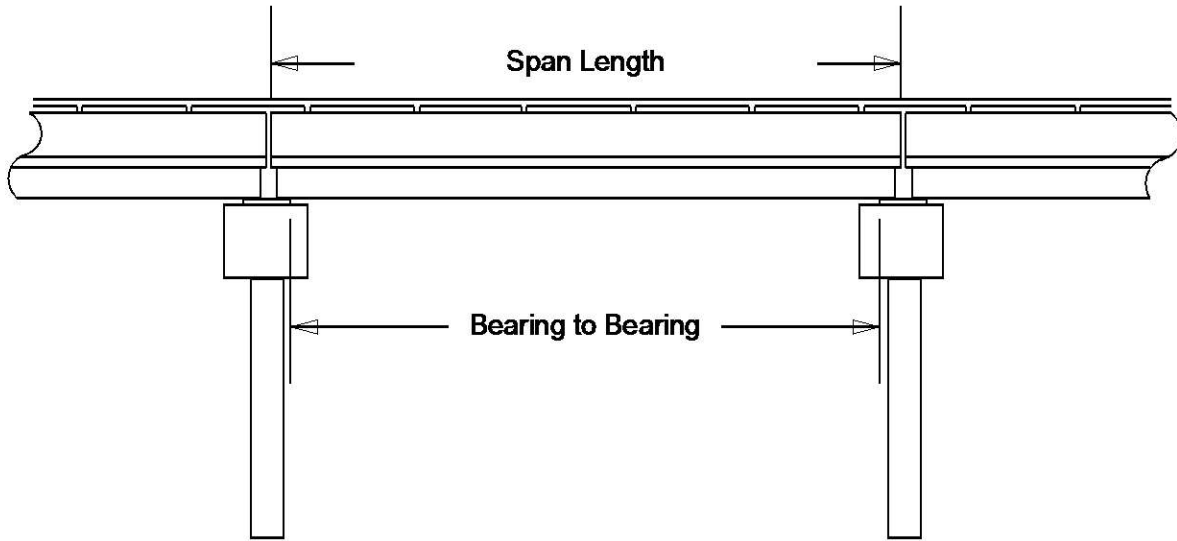


MISSING (2) WEIGHT LIMIT SIGNS...

Structure Data Worksheet

Spans

County: WATAUGA Structure No: 940278 Date: Inspected By: AG



Span No	Span Length	Bearing to Bearing	Comments
1	45 FT. 6 IN.	44 FT. 3 IN.	FACE OF ABUT. CAP TO FACE OF ABUT. CAP = 43.7'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 940278 County: WATAUGA Date: By: AG

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

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	2.5	TOP OF RAIL			
0.3	5	Top of Cap			
0.31	10.9	END BENT 1	0.31	9.9	END BENT 1
9	13.9	Water Surface/Water Edge (WSWE)			
28	15.1				
43	14.8	Water Surface/Water Edge (WSWE)			
44	14.7	END BENT 2	44	11.1	END BENT 2
44.01	14	TOP OF SILL			
45.31	5	Top of Cap			
45.51	2.5	TOP OF RAIL			

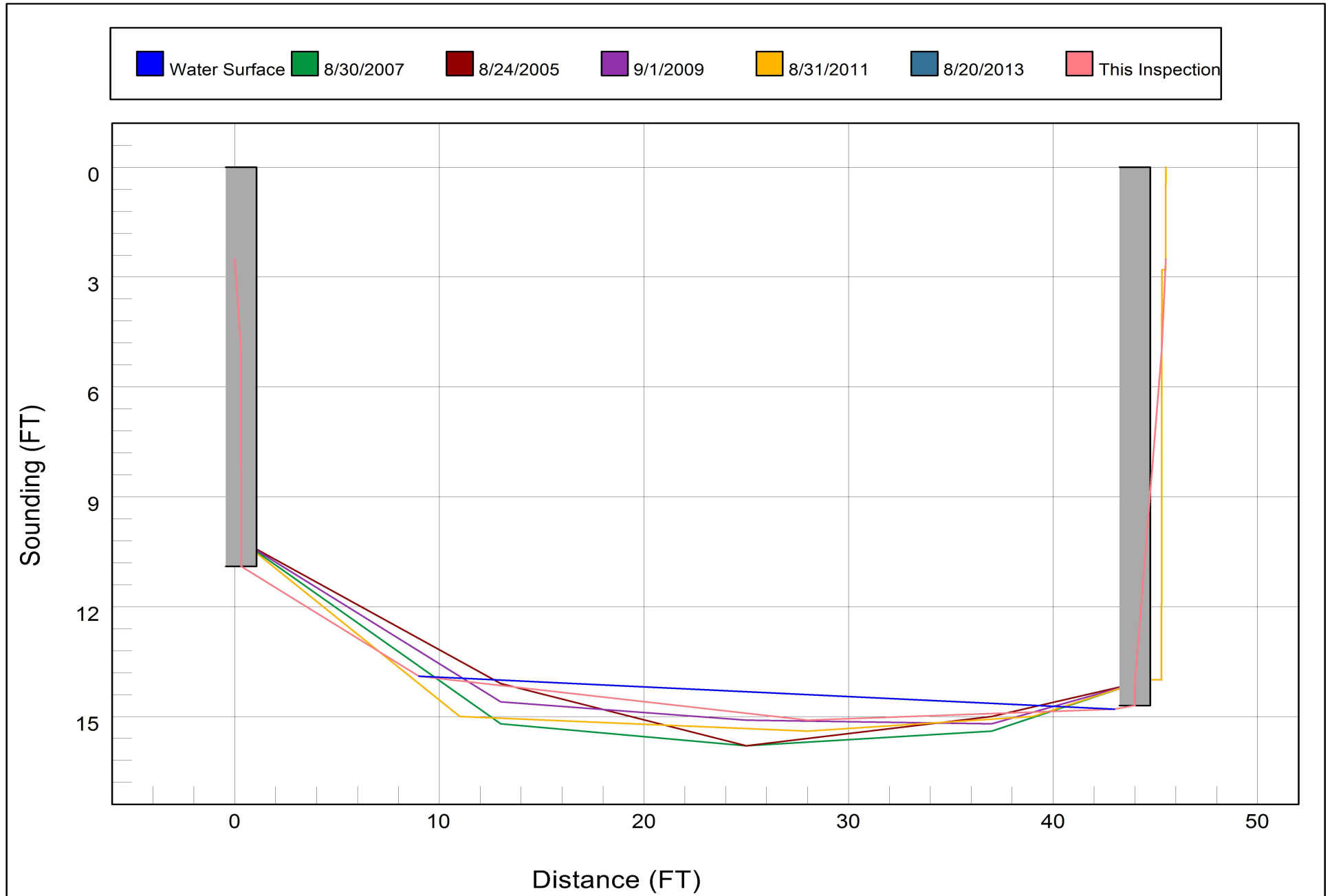
Bridge: 940278

County WATAUGA

Date:

STREAMBED PROFILE (Downstream)

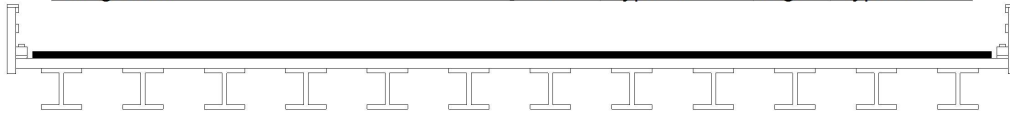
Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

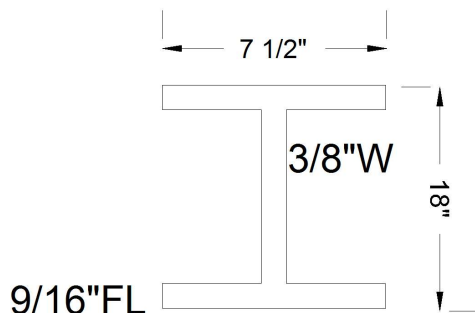
VERIFIED 8/26/2016 A. GLASCO, M. FORD

Deck Width/Out to Out	30.5ft	Between Rails	30.167ft
Clear Roadway	29.5ft	Wearing Surface	0.209ft
Median Width		Median Height	
Curb Height		Left	0.667ft
Sidewalk Width		Right	0.667ft
Clear Roadway (Rail to Median)		Left	
Guardrail Width		Right	
Top of Rail to Deck/Wearing Surface		Left	0.5ft
Bridge Rail		Right	0.5ft
		Left	2.667ft
		Right	2.667ft
		Left	Type 22
		Right	Type 22



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	0.917
Top of Rail to Bottom of Beam	4.917	Right Overhang	1.0

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.593ft	
2	Steel I Beam	2.593ft	
3	Steel I Beam	2.593ft	
4	Steel I Beam	2.593ft	
5	Steel I Beam	2.593ft	
6	Steel I Beam	2.593ft	
7	Steel I Beam	2.593ft	
8	Steel I Beam	2.593ft	
9	Steel I Beam	2.593ft	
10	Steel I Beam	2.593ft	
11	Steel I Beam	2.593ft	
12	Steel I Beam		



2 5/8" X 10" DIAPH. AT 1/3 PTS.

Title

SUPER

Description

SUPER

Bridge No: 940278

Drawn By: DCW

Date: 08/30/2007

File Name: S0126000249

Bridge Inspection Field Sketch

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Roadway	28ft Wide	2 Paved Lanes	Looking East
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	2ft Wide		2ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPR. ROADWAY

Description

APPROACH ROADWAY

Bridge No: 940278

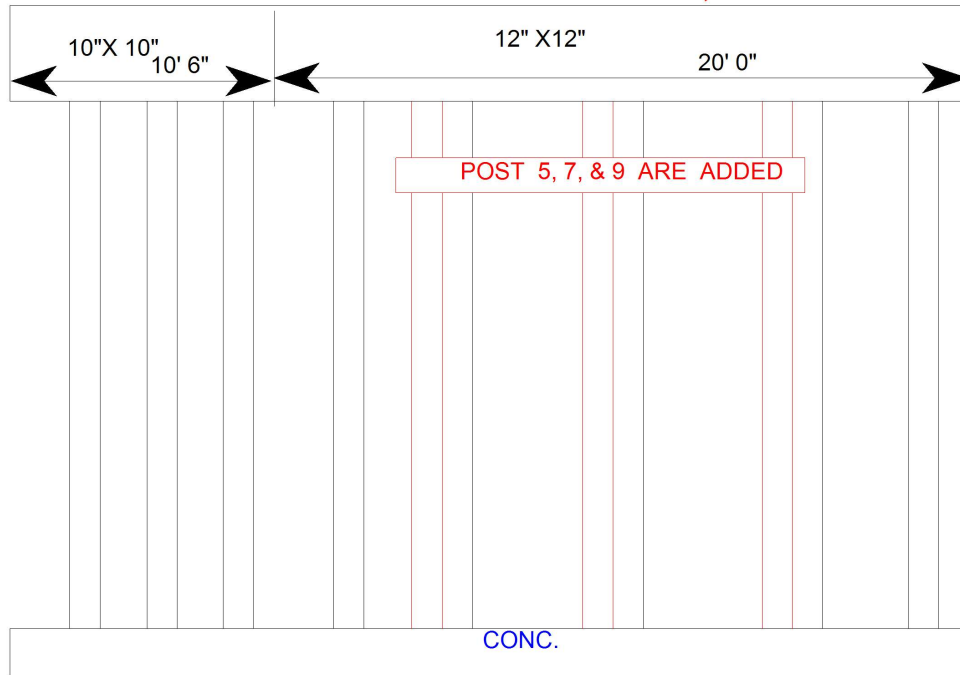
Drawn By: G.R.R.

Date: 08/30/2007

File Name: S0130000257

Bridge Inspection Field Sketch

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Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	30.500ft Long	0.959ft Wide	0.959ft High
Left Overhang	1.750ft	Lt Cap/Beam Overhang	1.000ft
Right Overhang	1.333ft	Rt Cap/Beam Overhang	.917ft
Sill - Sill			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	3' 8"		10"	10"	Vertical
2	Wood or Timber	Post and Sills	3' 10"		10"	10"	Vertical
3	Wood or Timber	Post and Sills	2' 10"		10"	10"	Vertical
4	Wood or Timber	Post and Sills	3' 6"		10"	10"	Vertical
5	Wood or Timber	Post and Sills	12"		10"	10"	Vertical
6	Wood or Timber	Post and Sills	3' 6"		10"	10"	Vertical
7	Wood or Timber	Post and Sills	12"		10"	10"	Vertical
8	Wood or Timber	Post and Sills	3' 6"		10"	10"	Vertical
9	Wood or Timber	Post and Sills	12"		10"	10"	Vertical
10	Wood or Timber	Post and Sills	4' 3"		10"	10"	Vertical
11	Wood or Timber	Post and Sills			10"	10"	Vertical

Title

ABUT. (A)

Description

SUBSTRUCTURE AB 1

Bridge No: 940278

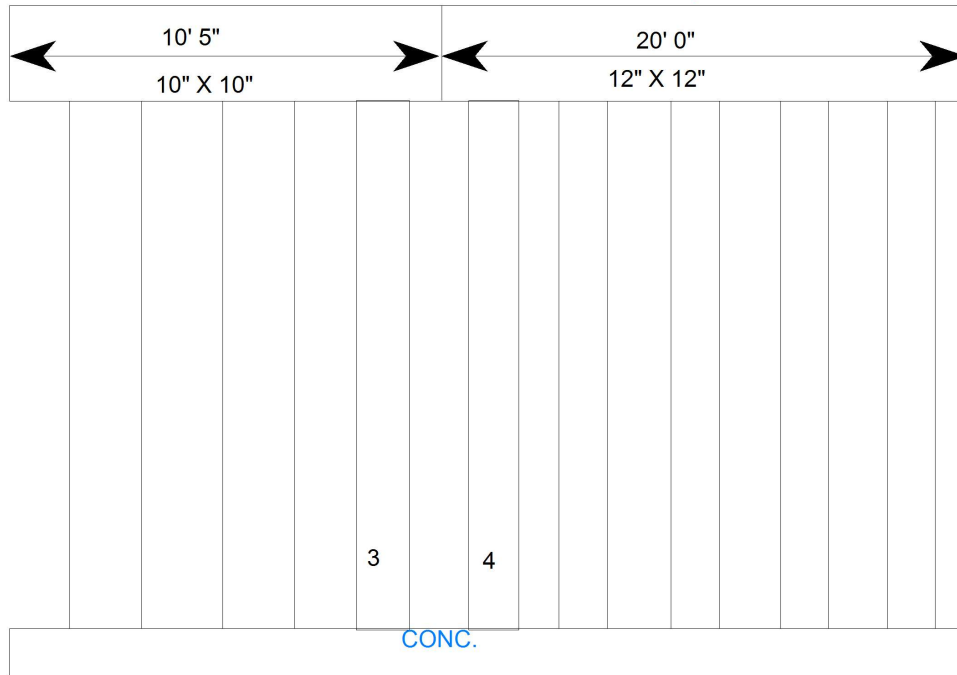
Drawn By: G.R.R.

Date: 08/30/2007

File Name: S0130000258

Bridge Inspection Field Sketch

VERIFIED 8/26/2016 A. GLASCO, M. FORD



Abutment #	2		
Cap - Beam Type (Wood or Steel)			
Cap Size	30.417ft Long	0.959ft Wide	0.959ft High
Left Overhang	1.5ft	Lt Cap/Beam Overhang	1.083 ft
Right Overhang	1.583ft	Rt Cap/Beam Overhang	1.00ft
Sill - Sill			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	3' 10'		10"	10"	Vertical
2	Wood or Timber	Post and Sills	3' 10'		10"	10"	Vertical
3	Wood or Timber	Post and Sills	2' 11"		10"	10"	Vertical
4	Wood or Timber	Post and Sills	4' 3"		10"	10"	Vertical
5	Wood or Timber	Post and Sills	4' 3"		10"	10"	Vertical
6	Wood or Timber	Post and Sills	3' 5"		10"	10"	Vertical
7	Wood or Timber	Post and Sills	5' 3"		10"	10"	Vertical
8	Wood or Timber	Post and Sills			10"	10"	Vertical

Title

ABUT. (B)

Description

SUB AB 2

Bridge No: 940278

Drawn By: G.R.R.

Date: 08/30/2007

File Name: S0130000259