



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE, TEMPORARY REPAIRS**

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: WILKES STRUCTURE NUMBER: 960700 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1302 MILE POST:

LOCATION: .5 MI.N.JCT.US421

FEATURE INTERSECTED: LITTLE CREEK

LATITUDE: 36° 11' 19.72" LONGITUDE: 81° 23' 47.19"

SUPERSTRUCTURE: TIMBER FLOOR ON TIMBER JOISTS

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

SPANS: 1 @ 18"-10

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

PRESENT CONDITION: Poor

INSPECTION DATE: 11/19/2014

POSTED SV: 12 12

POSTED TTST: 19 19

OTHER SIGNS PRESENT: (4) Delineators



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>YES</u>	ONE LANE BRIDGE	<u>2</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

Looking North

INSPECTED BY CESAR O CUEVAS	SIGNATURE <i>Cesar O. Cuevas</i>	ASSISTED BY THOMAS J BANKOVICH
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BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE: 960700 COUNTY: Willkes DATE: 5/31/07

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 :

S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION

CODE

BY

T

DRI

S I & A ITEM 59 - SUPERSTRUCTURE

S I & A ITEM 60 - SUBSTRUCTURE

4

DRI

S I & A ITEM 64 OPERATING RATING

HS

0.0

BY:

AK

S I & A ITEM 66 - INVENTORY RATING

HS

0.0

BY:

AK

COMMENTS

posts #1 & #4 @ abut #1 supplemented.

Not Temp. TMS 03/13/15

Span Element Report

Structure Number: 960700

Inspection Date: 11/19/2014

Span Number 1

Span Length 18.833 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	324	322	0	2	0	2	3324
111		Timber Open Girder/Beam	228	176	50	2	0	52	3304
206		Timber Column	11	3	7	1	0	14	3344
216		Timber Abutment	52	43	2	7	0	1	3346
235		Timber Pier Cap	40	8	32	0	0	32	3344
301		Pourable Joint Seal	0	0	0	0	0	0	3310
332		Timber Bridge Railing	38	0	0	38	0	38	3316
510		Wearing Surface	299	299	0	0	0	0	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

Timber Pile add beside End Bent 2 pile 4. BTH 8-3-15

Superstructure Detailed Element Quantities

Structure Number: 960700

Inspection Date: 11/19/2014

Structure Number: 960700

Inspection Date: 11/19/2014

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	324	322	0	2	0	2	3324	☐ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	19	0	0	19	0	19	3316	☐ Requested
☒ Bridge Rail	2	332	Timber Bridge Railing	19	0	0	19	0	19	3316	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	299	299	0	0	0	0	2816	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	19	12	7	0	0	7	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	2	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	3	111	Timber Open Girder/Beam	19	14	5	0	0	5	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	4	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	5	111	Timber Open Girder/Beam	19	17	0	2	0	2	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	6	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	7	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	8	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	9	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	10	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	11	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Beam	12	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Expansion Joints	1	301	Pourable Joint Seal	0	0	0	0	0	0	3310	☐ Requested
☐ Expansion Joints	1	301	Pourable Joint Seal	0	0	0	0	0	0	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 960700

Inspection Date: 11/19/2014

Span Number 1

Span 1	Deck	1	Component Name:	Timber Deck				
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Element: 31 Name Timber Deck Qty: 324 Lvl 2: 0 Lvl 3: 2 Lvl 4: 0 Maint. Qty 2

Defect Description:

12" x 8" x 2" deep area of decay in bay 3 at End Bent 2.

6" x 4" x 1" area of decay, 7' from End Bent 1.

14" x 6" x 1 1/2" deep area of decay, 5' from End Bent 2.

7" x 4" x 6" deep area of decay at End Bent 2 in East overhang.

6" x 4" x 4" deep area of decay, 9' from End Bent 1 in East overhang.

4" x 4" x 2 1/2" deep area of decay, 2' from End Bent 1.

Span 1	Bridge Rail	1	Component Name:	Timber Rail				
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Element: 332 Name Timber Bridge Railing Qty: 19 Lvl 2: 0 Lvl 3: 19 Lvl 4: 0 Maint. Qty 19

Defect Description:

19' x 2" x 2" deep area of decay.

Span 1	Bridge Rail	2	Component Name:	Timber Rail				
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Element: 332 Name Timber Bridge Railing Qty: 19 Lvl 2: 0 Lvl 3: 19 Lvl 4: 0 Maint. Qty 19

Defect Description:

19' x up to 6" x 1" deep area of decay.

Up to 2 1/4" lean to the East.

Span 1	Beam	1	Component Name:	Timber Joist				
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Element: 111 Name Timber Open Girder/Beam Qty: 19 Lvl 2: 7 Lvl 3: 0 Lvl 4: 0 Maint. Qty 7

Defect Description:

42" x 2" x 3/4" deep area of decay, 3' from End Bent 2.

22" x 3" x 3/4" deep area of decay, 5'-6" from End Bent 1.

10" x 1 1/2 x 3/4" deep area of decay, 1' from End Bent 1.

6" x 2" x 3/4" deep area of decay at End Bent 1.

Span 1	Beam	2	Component Name:	Timber Joist				
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Element: 111 Name Timber Open Girder/Beam Qty: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty 19

Defect Description:

Full length longitudinal checks.

Span 1	Beam	3	Component Name:	Timber Joist				
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Element: 111 Name Timber Open Girder/Beam Qty: 19 Lvl 2: 5 Lvl 3: 0 Lvl 4: 0 Maint. Qty 5

Defect Description:

5' of longitudinal checks at End Bent 1.

Span 1	Beam	5	Component Name:	Timber Joist				
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Element: 111 Name Timber Open Girder/Beam Qty: 19 Lvl 2: 0 Lvl 3: 2 Lvl 4: 0 Maint. Qty 2

Defect Description:

24" x 3" x 1" deep area of decay, 4' from End Bent 2.

Span 1	Beam	8	Component Name:	Timber Joist				
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Element: 111 Name Timber Open Girder/Beam Qty: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty 19

Defect Description:

Full length longitudinal checks.

Substructure Detailed Element Quantities

Structure Number: 960700

Inspection Date: 11/19/2014

End Bent 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
☒ Abutments	1	216	Timber Abutment	26	19	0	7	0	4	3346	☐ Requested
☒ Caps	1	235	Timber Pier Cap	20	0	20	0	0	20	3344	☐ Requested
☒ Piles and Columns	1	206	Timber Column	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	206	Timber Column	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	206	Timber Column	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	4	206	Timber Column	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	5	206	Timber Column	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	206	Timber Column	1	0	1	0	0	2	3344	☐ Requested

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	26	24	2	0	0	1	3346	☐ Requested
☒ Caps	1	235	Timber Pier Cap	20	8	12	0	0	12	3344	☐ Requested
☒ Piles and Columns	1	206	Timber Column	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	2	206	Timber Column	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	3	206	Timber Column	1	0	0	1	0	1	3344	☐ Requested
☒ Piles and Columns	4	206	Timber Column	1	0	1	0	0	1	3344	☒ Requested
☒ Piles and Columns	5	206	Timber Column	1	0	1	0	0	2	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 960700

Inspection Date: 11/19/2014

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 216 Name Timber Abutment Qty: 26 Lvl 2: 0 Lvl 3: 7 Lvl 4: 0 Maint. Qty 4

Defect Description:

2' x 6" x 2" deep area of decay between piles 4 and 5.

3' x 6" x 2" deep area of decay between piles 3 and 4.

2' x 4" x 1" deep area of decay between piles 2 and 3.

End Bent 1	Row 1	Caps	1
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Element: 235 Name Timber Pier Cap Qty: 20 Lvl 2: 20 Lvl 3: 0 Lvl 4: 0 Maint. Qty 20

Defect Description:

20' of horizontal check

End Bent 1	Row 1	Piles and Columns	1
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

End Bent cap not bearing on pile 1.

End Bent 1	Row 1	Piles and Columns	3
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 2

Defect Description:

2' vertical check.

End Bent 1	Row 1	Piles and Columns	4
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 2

Defect Description:

2' vertical check.

End Bent 1	Row 1	Piles and Columns	6
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 2

Defect Description:

2' vertical check.

End Bent 2	Row 1	Abutments	1
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Element: 216 Name Timber Abutment Qty: 26 Lvl 2: 2 Lvl 3: 0 Lvl 4: 0 Maint. Qty 1

Defect Description:

18" x 4" x 3/4" deep area of decay between piles 1 and 2.

5" lean to the South.

End Bent 2	Row 1	Caps	1
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Element: 235 Name Timber Pier Cap Qty: 20 Lvl 2: 12 Lvl 3: 0 Lvl 4: 0 Maint. Qty 12

Defect Description:

12' of horizontal checks.

End Bent 2	Row 1	Piles and Columns	1
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 2

Defect Description:

2' of vertical check.

End Bent 2	Row 1	Piles and Columns	2
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 2

Defect Description:

2' of vertical check.

Structure Number: 960700

Inspection Date: 11/19/2014

End Bent 2	Row 1	Piles and Columns	3
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 0 Lvl 3: 1 Lvl 4: 0 Maint. Qty 1

Defect Description:

11" x 8" x up to 6" deep area of decay on Southeast corner.

End Bent 2	Row 1	Piles and Columns	4
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 1

Defect Description:

9" x 4" x 3" deep area of decay on Southwest corner.

End Bent 2	Row 1	Piles and Columns	5
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Element: 206 Name Timber Column Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 2

Defect Description:

2' of vertical check.

National Bridge and NC Inspection Items

Structure Number: 960700

Inspection Date: 11/19/2014

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	4
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	6
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	F	108	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Wingwall	G, F, P, or C	F	10	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		B		
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	F		
Estimated Remaining Life	0 - 100 Years	5		

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	7
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: 960700

Inspection Date: 11/19/2014

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	108
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Details 3' of debris and vegetation in East gutter (West gutter similar).

Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	10
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Details 36" x 15" x 2" deep area of decay on Northwest wingwall.

48" x 18" x 2" deep area of decay on Southeast wingwall.



3' of debris and vegetation in East gutter (West gutter similar)



Span 1 Right Bridge Rail: 19' x up to 6" x 1" deep area of decay



Span 1 Right Bridge Rail: Up to 2 1/4" lean to the East



4' x 18" x 2" deep area of decay on Southeast wingwall



End Bent 1 Abutment/Backwall : 2' x 6" x 2" deep area of decay between piles 4 and 5



End Bent 1 Abutment/Backwall : 36" x 6" x 2" deep area of decay between piles 3 and 4



End Bent 1 Pile 1: End Bent cap not bearing on pile 1



Span 1 Beam 1: 42" x 2" x 3/4" deep area of decay, 3' from End Bent 2



Span 1 Deck: 12" x 8" x 2" deep area of decay in bay 3 at End Bent 2



Span 1 Beam 5: 24" x 3" x 1" deep area of decay, 4' from End Bent 2



36" x 15" x 2" deep area of decay on Northwest wingwall



End Bent 2 Abutment/Backwall : 18" x 4" x 3/4" deep area of decay between piles 1 and 2



End Bent 2 Pile 3: 11" x 8" x up to 6" deep area of decay on Southeast corner



End Bent 2 Pile 4: 9" x 4" x 3" deep area of decay on Southwest corner



Span 1 Deck: 14" x 6" x 1 1/2" deep area of decay, 5' from End Bent 2



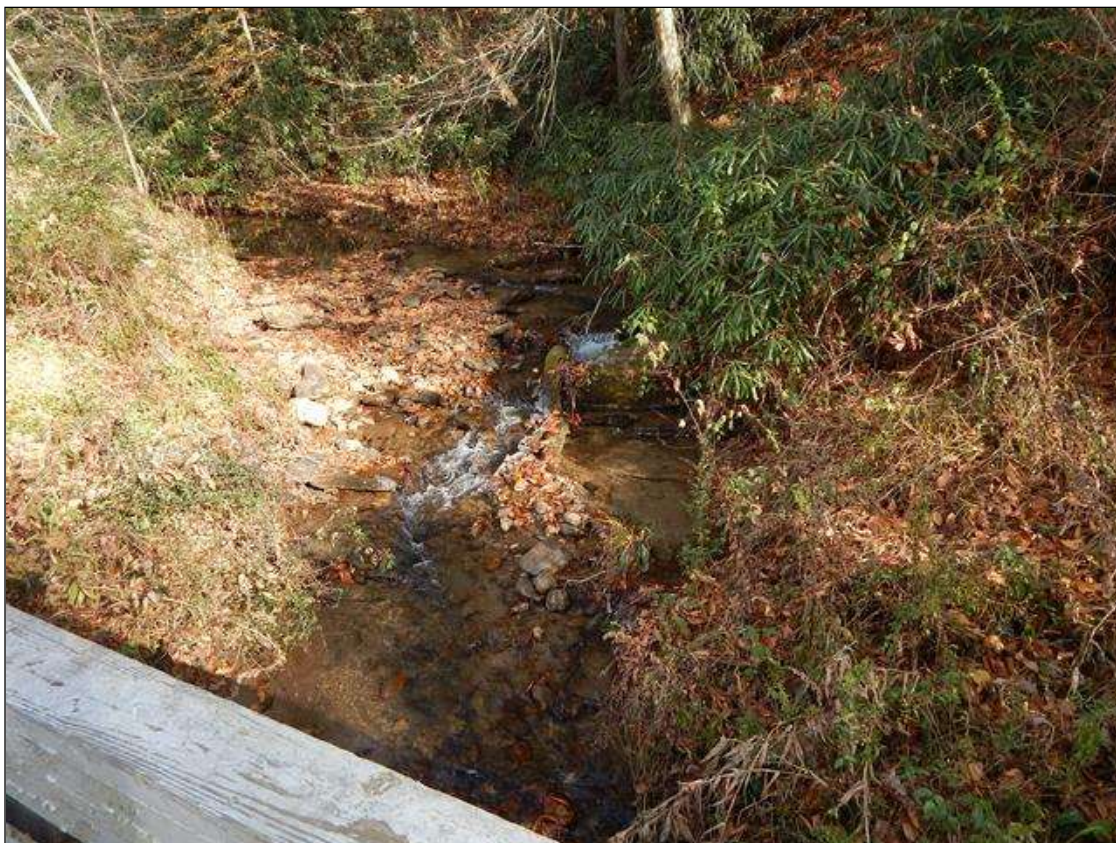
Span 1 Deck: 7" x 4" x 6" deep area of decay at End Bent 2 in East overhang



5" lean to the South of End Bent 2



Looking South



Upstream view, looking East



Downstream view, looking West



Looking North



Southwest delineator (Each corner similar)



Weight limit sign in South approach (North approach similar)



West bridge rail (East bridge rail similar)



Southeast wingwall (Each corner similar)



End Bent 1 (End Bent 2 similar)



Temporary repair - Pile 5 at End Bent 1 (Pile 2 similar)



Temporary repair - Pile 2 at End Bent 2



Underside of superstructure



Upstream profile, looking West



Downstream profile, looking East



Temporary repair - Beam 6 (Beam 2 similar)

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

Update Date: 08/12/2015

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 960700
 (8) STRUCTURE NUMBER(FEDERAL) 000000001930700
 (5) INVENTORY ROUTE (ON/UNDER) - ON 31013020
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 3
 (3) COUNTY CODE 193 (4) PLACE CODE 0
 (6) FEATURE INTERSECTED - LITTLE CREEK
 (7) FACILITY CARRIED SR1302
 (9) LOCATION .5 MI.N.JCT.US421
 (11)MILEPOINT 0
 (16)LAT 36° 11' 19.72" (17)LONG 81° 23' 47.19"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 43.35
 STATUS = Structurally Deficient

CLASSIFICATION

CODE

(112)NBIS BRIDGE SYSTEM - NO
 (104)HIGHWAY SYSTEM Is not on NHS 0
 (26) FUNCTIONAL CLASS - Local 09
 (100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
 (101)PARALLEL STRUCTURE - No Parallel Structure N
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103)TEMPORARY STRUCTURE -
 (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: Wood or Timber
 TYPE - Stringer Multibeam or Girder CODE 702
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE 000
 (45) NUMBER OF SPANS IN MAIN UNIT 1
 (46) NUMBER OF APPROACH SPANS
 (107)DECK STRUCTURE TYPE - 8 CODE
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - CODE
 (B) TYPE OF MEMBRANE - CODE
 (C) TYPE OF DECK PROTECTION - CODE

CONDITION

CODE

(58) DECK 4
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 5
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

LOAD RATING AND POSTING

CODE

(31) DESIGN LOAD Unknown 0
 (63) OPERATING RATING METHOD - Allowable Stress 2
 (64) OPERATING RATING - HS-12 21
 (65) INVENTORY RATING METHOD - Allowable Stress 2
 (66) INVENTORY RATING - HS-8 14
 (70) BRIDGE POSTING - Posting Required 0
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED P
 DESCRIPTION - Posted for Load

AGE AND SERVICE

(27) YEAR BUILT 1960
 (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 70
 (30) YEAR OF ADT 2000 (109) TRUCK ADT PCT %
 (19) BYPASS OR DETOUR LENGTH 99 MI

APPRAISAL

CODE

(67) STRUCTURAL EVALUATION 4
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES,VERTI & HORIZ N
 (71) WATERWAY ADEQUACY 6
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (113)SCOUR CRITICAL BRIDGES U

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 17 FT
 (49) STRUCTURE LENGTH 19 FT
 (50)CURB OR SIDEWALK: LEFT .4 FT RIGHT .4 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 16 FT
 (52) DECK WIDTH OUT TO OUT 17.167 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 12 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 15° (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 16 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
 (54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 0 FT
 (55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT
 (56) MIN LAT UNDERCLEAR LT REF - 000 FT

PROPOSED IMPROVEMENTS

CODE

(75) TYPE OF WORK -
 (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 140 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 11/19/2014

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

(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - NO B)
 C) OTHER SPECIAL INSP NO C)
 SCOUR

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 08/12/2015

COUNTY : WILKES	DIVISION : 11	DISTRICT : 3	STRUCTURE NUMBER : 960700	LENGTH : 19 FEET
ROUTE CARRIED : SR1302		FEATURE INTERSECTED : LITTLE CREEK		
LOCATED : .5 MI.N.JCT.US421		BRIDGE NAME :		CITY :
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 70 2000	RAIL TYPE : LT 227 RT 227
BUILT : 1960	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Unknown
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 75
LANES : ON 2		UNDER 0		
NAVIGATION : VC 0	FT	HC 0	FT	HT. CRN. TO BED : 7 FT
WATER DEPTH : 1		FT		
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS				
SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST & SILLS @ VAR.CENTERS				
SPANS : 1 @ 18'-10				
BEAMS OR GIRDERS : 8 LINES 6X12 TIMBER JOISTS & 2 LNS.DBL 6X12 JSTS.				
FLOOR : 4X8 TIM/1.5 AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 17.167 FT	
CLEAR ROADWAY : 16 FT	BETWEEN RAILS : 17.167 FT		SIDEWALK OR CURB : LT .4 FT RT .4 FT	
VERT.CL.OVER : 999.9 FT				
INV.RTG. : HS-8	OPE.RTG. : HS-12	CONTR.MEMBER : int jost	POSTED : SV 11	TTST 19 DATE 03/09/2015
SYSTEM : Secondary S.R. Route		GREEN LINE ROUTE : N		
UNDER ROUTES AND CLEARANCES				
REMARKS :				

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 960700

County WLKES

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	10 BTH 8-3-15	END BENT 2 PILE 4: 9" X 4" X 3" DEEP AREA OF DECAY ON SOUTHWEST CORNER.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960700 County WILKES

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	1 LF
Location:		
Abutment Substructure	Bent/Span No. 2	PILE 4 OF END BENT 2
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
11/26/2014	Cesar O Cuevas	Thomas J Bankovich
Details		
END BENT 2 PILE 4: 9" X 4" X 3" DEEP AREA OF DECAY ON SOUTHWEST CORNER.		

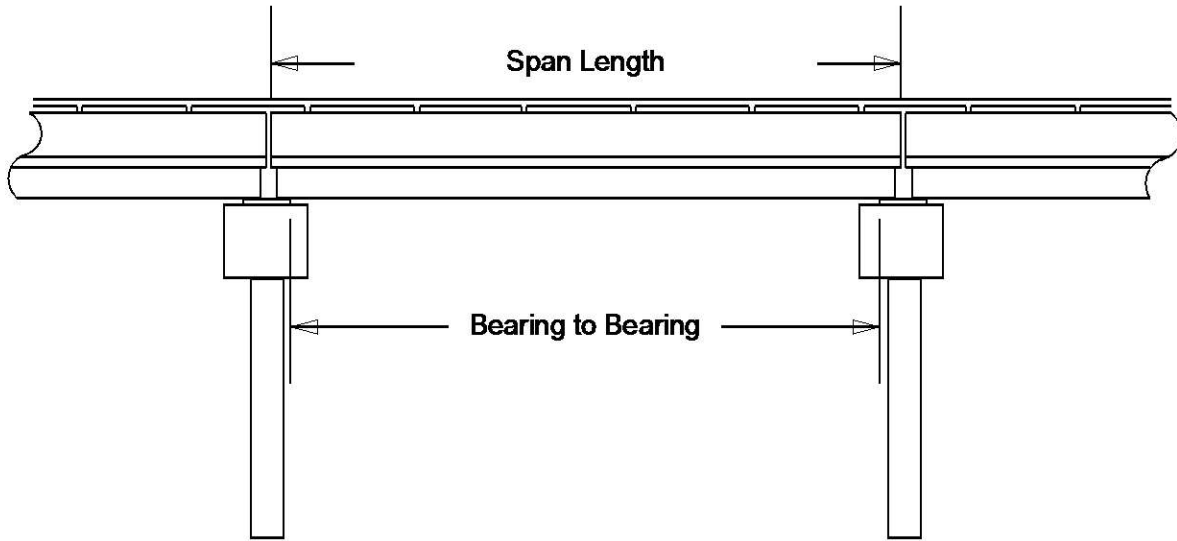


END BENT 2 PILE 4: 9" X 4" X 3" DEEP AREA OF DECAY ON SOUTHWEST CORNER

Structure Data Worksheet

Spans

County: WILKES Structure No: 960700 Date: _____ Inspected By: COC



Span No	Span Length	Bearing to Bearing	Comments
1	18.833	17.417	NBIS LENGTH = 16'-5"

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 960700 County: WILKES Date: _____ By: COC

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	TOP OF BACKWALL			
0.3	3	TOP OF BACKWALL			
0.31	4.3	Top of Cap			
1.5	4.3	Top of Cap			
1.51	8.6	FACE OF CAP	1.51	6.6	FACE OF CAP
4	8.7	Water Surface/Water Edge (WSWE)			
11	9.3				
17.4	8.7	Water Surface/Water Edge (WSWE)			
17.49	8.6	FACE OF CAP	17.49	7.7	FACE OF CAP
17.5	4.3	Top of Cap			
18.52	4.3	Top of Cap			
18.53	3	TOP OF BACKWALL			
18.8	3	TOP OF BACKWALL			

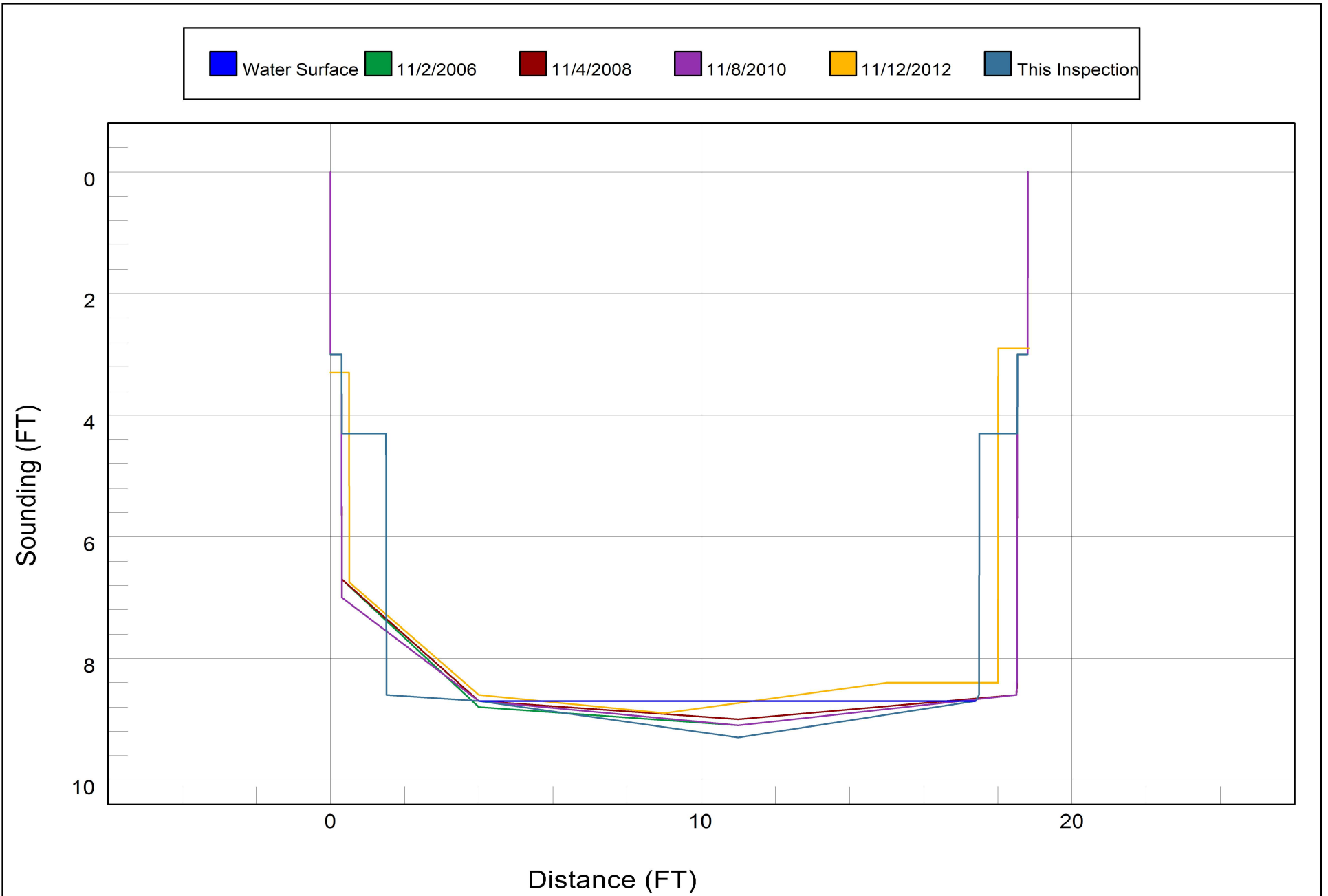
Bridge: 960700

County WILKES

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



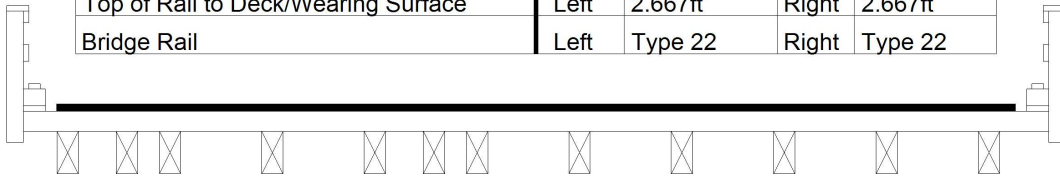
Roadway	12ft Wide	1 Unpaved Lanes	Looking North
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	2ft Wide		2ft Unpaved
Left Guardrail			
Right Guardrail			

SKETCH MODIFIED 11/19/14 BY COC

Title APPROACH ROADWAY		Description SOUTH APPROACH, LOOKING NORTH	
Bridge No: 960700	Drawn By: JWT	Date: 11/14/2012	File Name: S0130001324

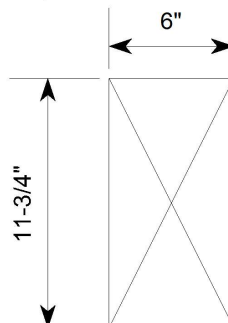
Bridge Inspection Field Sketch

Deck Width/Out to Out	17.167ft	Between Rails				17.167ft
Clear Roadway	16ft	Wearing Surface				0.125ft
Median Width		Median Height				
Curb Height		Left	0.709ft	Right	0.709ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left		Right		
Top of Rail to Deck/Wearing Surface		Left	2.667ft	Right	2.667ft	
Bridge Rail		Left	Type 22	Right	Type 22	



Measurements for Span #	1		
Deck Thickness	0.333	Left Overhang	0.798
Top of Rail to Bottom of Beam	4.125	Right Overhang	0.798

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1ft	
2	Timber (Rectangular)	0.73ft	ADDED
3	Timber (Rectangular)	1.73ft	
4	Timber (Rectangular)	1.73ft	
5	Timber (Rectangular)	1ft	
6	Timber (Rectangular)	0.73ft	ADDED
7	Timber (Rectangular)	1.73ft	
8	Timber (Rectangular)	1.73ft	
9	Timber (Rectangular)	1.73ft	
10	Timber (Rectangular)	1.73ft	
11	Timber (Rectangular)	1.73ft	
12	Timber (Rectangular)	ft	

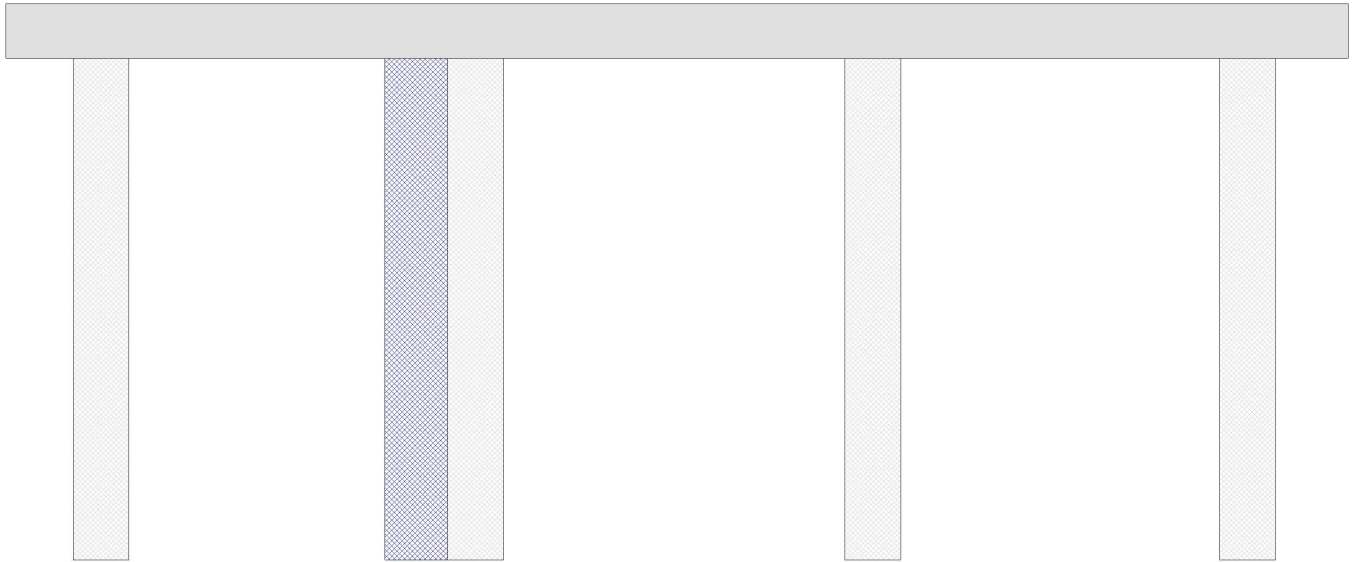


SKETCH MODIFIED 11/19/14 BY COC

Title		Description	
TYPICAL SECTION		SPAN 1, LOOKING NORTH	
Bridge No: 960700	Drawn By: JWT	Date: 11/14/2012	File Name: S0126001170

Bridge Inspection Field Sketch										
Cap Information						Material Timber				
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20.000 ft.	.875 ft.	1.000 ft.	1.292 ft.	1.583 ft.	1.125 ft.	.667 ft.				
Subcap Information						Material				
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information						Material				
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1 ft.	0.833 ft.		0.833 ft.	Vertical	No	No	No	No
2	Timber	4.583 ft.	0.9375 ft.		1 ft.	Vertical	No	Yes	No	No
3	Timber	6 ft.	0.833 ft.		0.833 ft.	Vertical	No	No	No	No
4	Timber	4.583 ft.	0.833 ft.		0.833 ft.	Vertical	No	No	No	No
5	Timber	1 ft.	0.9375 ft.		1 ft.	Vertical	No	Yes	No	No
6	Timber		0.833 ft.		0.833 ft.	Vertical	No	No	No	No
Bent/Abutment #: 1 Similar Bents:										
SKETCH VERIFIED 11/19/14 BY COC										
Title						Description				
SUBSTRUCTURE						END BENT 1, LOOKING NORTH				
Bridge No: 960700			Drawn By: JWT			Date: 11/14/2012		File Name: S0130001322		

Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20.000 ft.	.875 ft.	.813 ft.	1.417 ft.	1.417 ft.	1.500 ft.	1.000 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	4.698 ft.	0.833 ft.		0.833 ft.	Vertical	No	No	No	No
2	Timber	0.885 ft.	0.9375 ft.		1.0 ft.	Vertical	No	Yes	No	No
3	Timber	5.917 ft.	0.833 ft.		0.833 ft.	Vertical	No	No	No	No
4	Timber	5.583 ft.	0.833 ft.		0.833 ft.	Vertical	No	No	No	No
5	Timber		0.833 ft.		0.833 ft.	Vertical	No	No	No	No
Bent/Abutment #: 2 Similar Bents:										

SKETCH VERIFIED 11/19/14 BY COC

Title		Description	
SUBSTRUCTURE		END BENT 2, LOOKING NORTH	
Bridge No: 960700	Drawn By: JWT	Date: 11/14/2012	File Name: S0130001323