



NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
BRIDGE MANAGEMENT UNIT

ATTENTION

1ST. INSP. OF NEW STRUCTURE.  
PRI. MAINT. ISSUED.

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY HAYWOOD BRIDGE NUMBER 430317 INSPECTION CYCLE 2 YRS  
ROUTE SR1346 ACROSS STEPHENS CREEK M.P. 0

LOCATION 1.6 MI.S.JCT.SR1347

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

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

1 @ 17'-2"

SPANS 1 @ 16'-6"

LONGITUDE 83° 2' 12.5"

LATITUDE 35° 38' 57.8"

PRESENT CONDITION GOOD

INVENTORY RATING

INSPECTION DATE 12/12/2011

OPERATING RATING

PRESENT POSTING NOT POSTED

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS [4] AND ONE LANE BRIDGE [2]



LOOKING NORTH

| SIGN NOTICE<br>ISSUED FOR |                 | NUMBERED<br>REQUIRED |
|---------------------------|-----------------|----------------------|
| <u>No</u>                 | WEIGHT LIMIT    | <u></u>              |
| <u>No</u>                 | DELINEATORS     | <u></u>              |
| <u>No</u>                 | NARROW BRIDGE   | <u></u>              |
| <u>Yes</u>                | ONE LANE BRIDGE | <u>2</u>             |
| <u>No</u>                 | LOW CLEARANCE   | <u></u>              |

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

Run Date: 01/25/2012

| IDENTIFICATION                             |                              |                |              |                                        |                                  |
|--------------------------------------------|------------------------------|----------------|--------------|----------------------------------------|----------------------------------|
| (1) STATE NAME -NORTH CAROLINA             | BRIDGE                       | 430317         |              | SUFFICIENCY RATING =                   | 5                                |
| (8) STRUCTURE NUMBER(FEDERAL)              |                              | 00000000870317 |              | STATUS =                               | Structurally Deficient           |
| (5) INVENTORY ROUTE (ON/UNDER) - ON        |                              | 31013460       |              |                                        |                                  |
| (2) STATE HIGHWAY DEPARTMENT DISTRICT      |                              | 2              |              |                                        |                                  |
| (3) COUNTY CODE                            | 87                           | (4) PLACE CODE | 00000        |                                        |                                  |
| (6) FEATURE INTERSECTED -                  | STEPHENS CREEK               |                |              |                                        |                                  |
| (7) FACILITY CARRIED                       | SR1346                       |                |              |                                        |                                  |
| (9) LOCATION                               | 1.6 MI.S.JCT.SR1347          |                |              |                                        |                                  |
| (11)MILEPOINT                              |                              | 0              |              |                                        |                                  |
| (16)LAT                                    | 35° 38' 57.8"                | (17)LONG       | 83° 2' 12.5" |                                        |                                  |
| (98)BORDER BRIDGE STATE CODE               |                              | PCT SHARE      |              |                                        |                                  |
| (99)BORDER BRIDGE STRUCTURE NO             |                              |                |              |                                        |                                  |
| STRUCTURE TYPE AND MATERIAL                |                              |                |              | CLASSIFICATION                         |                                  |
| (43) STRUCTURE TYPE MAIN:                  | Wood or Timber               |                |              | (112)NBIS BRIDGE SYSTEM -              | NO                               |
| TYPE -                                     | Stringer Mutlibeam or Girder | CODE           | 702          | (104)HIGHWAY SYSTEM                    | Is not on NHS 0                  |
| (44) STRUCTURE TYPE APPR :                 |                              |                |              | (26) FUNCTIONAL CLASS -                | Local 09                         |
| TYPE -                                     |                              | CODE           | 000          | (100)STRAHNET HIGHWAY -                | Not a STRAHNET Route 0           |
| (45) NUMBER OF SPANS IN MAIN UNIT          |                              |                | 1            | (101)PARALLEL STRUCTURE -              | No Parallel Structure N          |
| (46) NUMBER OF APPROACH SPANS              |                              |                |              | (102)DIRECTION OF TRAFFIC -            | 2-way Traffic 2                  |
| (107)DECK STRUCTURE TYPE -                 | 8                            | CODE           |              | (103)TEMPORARY STRUCTURE -             | Temporary Structure/Conditions T |
| (108)WEARING SURFACE / PROTECTIVE SYSTEM : |                              |                |              | (110)DESIGNATED NATIONAL NETWORK -     | Not on the National Network 0    |
| (A) TYPE OF WEARING SURFACE -              |                              | CODE           |              | (20) TOLL                              | On Free Road 3                   |
| (B) TYPE OF MEMBRANE -                     |                              | CODE           |              | (31) MAINTAIN -                        | State Highway Agency 01          |
| (C) TYPE OF DECK PROTECTION -              |                              | CODE           |              | (22) OWNER -                           | State Highway Agency 01          |
|                                            |                              |                |              | (37) HISTORICAL SIGNIFICANCE -         | Not Eligible 5                   |
|                                            |                              |                |              | CONDITION                              |                                  |
|                                            |                              |                |              | (58) DECK                              | 7                                |
|                                            |                              |                |              | (59) SUPERSTRUCTURE                    | 7                                |
|                                            |                              |                |              | (60) SUBSTRUCTURE                      | 3                                |
|                                            |                              |                |              | (61) CHANNEL & CHANNEL PROTECTION      | 7                                |
|                                            |                              |                |              | (62) CULVERTS                          | N                                |
|                                            |                              |                |              | LOAD RATING AND POSTING                |                                  |
|                                            |                              |                |              | (31) DESIGN LOAD                       | Other or Unknown 0               |
|                                            |                              |                |              | (63) OPERATING RATING METHOD -         | Allowable Stress                 |
|                                            |                              |                |              | (64) OPERATING RATING -                | HS-1 201                         |
|                                            |                              |                |              | (65) INVENTORY RATING METHOD -         | Allowable Stress                 |
|                                            |                              |                |              | (66) INVENTORY RATING -                | HS-1 201                         |
|                                            |                              |                |              | (70) BRIDGE POSTING -                  | No Posting Required 5            |
|                                            |                              |                |              | (41) STRUCTURE OPEN, POSTED ,OR CLOSED | D                                |
|                                            |                              |                |              | DESCRIPTION -                          | Open Temporary Shoring           |
|                                            |                              |                |              | APPRAISAL                              |                                  |
|                                            |                              |                |              | (67) STRUCTURAL EVALUATION             | 3                                |
|                                            |                              |                |              | (68) DECK GEOMETRY                     | 2                                |
|                                            |                              |                |              | (69) UNDERCLEARANCES,VERTI & HORIZ     | N                                |
|                                            |                              |                |              | (71) WATERWAY ADEQUACY                 | 7                                |
|                                            |                              |                |              | (72) APPROACH ROADWAY ALIGNMENT        | 7                                |
|                                            |                              |                |              | (36) TRAFFIC SAFETY FEATURES           | 0000                             |
|                                            |                              |                |              | (113)SCOUR CRITICAL BRIDGES            | U                                |
|                                            |                              |                |              | PROPOSED IMPROVEMENTS                  |                                  |
|                                            |                              |                |              | (75) TYPE OF WORK -                    | CODE                             |
|                                            |                              |                |              | (76) LENGTH OF STRUCTURE IMPROVEMENT   |                                  |
|                                            |                              |                |              | (94) BRIDGE IMPROVEMENT COST           |                                  |
|                                            |                              |                |              | (95) ROADWAY IMPROVEMENT COST          |                                  |
|                                            |                              |                |              | (96) TOTAL PROJECT COST                |                                  |
|                                            |                              |                |              | (97) YEAR OF IMPROVEMENT COST ESTIMATE |                                  |
|                                            |                              |                |              | (114)FUTURE ADT                        | 440                              |
|                                            |                              |                |              | (115) YEAR FUTURE ADT                  | 2025                             |
|                                            |                              |                |              | INSPECTIONS                            |                                  |
|                                            |                              |                |              | (90) INSPECTION DATE                   | 03/14/2011                       |
|                                            |                              |                |              | (92) CRITICAL FEATURE INSPECTION :     | (93) CFI DATE                    |
|                                            |                              |                |              | A) FRACTURE CRIT DETAIL -              | NO A)                            |
|                                            |                              |                |              | B) UNDERWATER INSP -                   | NO B)                            |
|                                            |                              |                |              | C) OTHER SPECIAL INSP                  | NO C)                            |
|                                            |                              |                |              | SCOUR                                  |                                  |
| NAVIGATION DATA                            |                              |                |              |                                        |                                  |
| (38) NAVIGATION CONTROL -                  | No Navigational Control      | CODE           | 0            |                                        |                                  |
| (111)PIER PROTECTION -                     |                              | CODE           |              |                                        |                                  |
| (39) NAVIGATION VERTICAL CLEARANCE         |                              |                | 0            |                                        |                                  |
| (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR |                              |                | FT           |                                        |                                  |
| (40) NAVIGATION HORIZONTAL CLEARANCE       |                              |                | 0 FT         |                                        |                                  |

## BRIDGE MANAGEMENT UNIT

## DATA ON EXISTING STRUCTURE

Run Date: 01/25/2012

|          |            |            |                    |          |      |
|----------|------------|------------|--------------------|----------|------|
| COUNTY : | DIVISION : | DISTRICT : | STRUCTURE NUMBER : | LENGTH : |      |
| HAYWOOD  | 14         | 2          | 430317             | 17       | FEET |

|                 |                       |
|-----------------|-----------------------|
| ROUTE CARRIED : | FEATURE INTERSECTED : |
| SR1346          | STEPHENS CREEK        |

|                     |               |        |
|---------------------|---------------|--------|
| LOCATED :           | BRIDGE NAME : | CITY : |
| 1.6 MI.S.JCT.SR1347 |               |        |

|               |           |              |            |               |
|---------------|-----------|--------------|------------|---------------|
| FUNC. CLASS : | SYST.ON : | SYST.UNDER : | ADT & YR : | RAIL TYPE :   |
| 09            | NFA       | NFA          | 220 2000   | LT 227 RT 227 |

|         |      |        |                |                  |
|---------|------|--------|----------------|------------------|
| BUILT : | BY : | PROJ : | FED.AID PROJ : | DESIGN LOAD :    |
| 1961    | BMU  |        |                | Other or Unknown |

|         |      |        |             |        |            |
|---------|------|--------|-------------|--------|------------|
| REHAB : | BY : | PROJ : | ALIGNMENT : | SKEW : | LANES :    |
|         | BMU  |        | TAN         | 135    | ON 2 UNDER |

|                 |                   |               |
|-----------------|-------------------|---------------|
| NAVIGATION :    | HT. CRN. TO BED : | WATER DEPTH : |
| VC 0 FT HC 0 FT | 5 FT              | 1 FT          |

|                  |                               |
|------------------|-------------------------------|
| SUPERSTRUCTURE : | TIMBER FLOOR ON TIMBER JOISTS |
|------------------|-------------------------------|

|                |                                                        |
|----------------|--------------------------------------------------------|
| SUBSTRUCTURE : | E.BTS:TIMBER CAPS/TIMBER POST&CONCRETE SILLS @VAR.CTS. |
|----------------|--------------------------------------------------------|

|         |           |
|---------|-----------|
| SPANS : | 1 @ 17'-2 |
|---------|-----------|

|                    |                                          |
|--------------------|------------------------------------------|
| BEAMS OR GIRDERS : | 20 LINES 6X14 TIMBER JOISTS @ 1' CENTERS |
|--------------------|------------------------------------------|

|                                                                                                                     |                |                     |
|---------------------------------------------------------------------------------------------------------------------|----------------|---------------------|
| FLOOR :                                                                                                             | ENCROACHMENT : | DECK (OUT TO OUT) : |
| Shims need to be Placed Between Post and Cap at Post 2 -3 and post 9 at Abutment 2.Rated 501 and Inspection report. |                | 21.3 FT             |

|                 |                 |                    |
|-----------------|-----------------|--------------------|
| CLEAR ROADWAY : | BETWEEN RAILS : | SIDEWALK OR CURB : |
| 19.8 FT         | 20.3 FT         | LT .3 FT RT .3 FT  |

|                |
|----------------|
| VERT.CL.OVER : |
| 999.9 FT       |

|            |            |                |          |            |
|------------|------------|----------------|----------|------------|
| INV.RTG. : | OPE.RTG. : | CONTR.MEMBER : | POSTED : | DATE       |
| HS-1       | HS-1       | IntJoist       | SV TTST  | 01/23/2012 |

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

|                             |
|-----------------------------|
| UNDER ROUTES AND CLEARANCES |
|-----------------------------|

|           |
|-----------|
| REMARKS : |
|-----------|

BRIDGE MANAGEMENT UNIT  
DATA ON EXISTING STRUCTURE

Run Date: 01/25/2012

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REMARKS :

# BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection  
 BRIDGE NO. 430317 COUNTY HAYWOOD ROUTE SR1346 OVER STEPHENS CREEK  
 STRUCTURE TYPE TIMBER FLOOR ON TIMBER JOISTS  
 ROUTE ORIENTATION S - N SPANS 1 @ 16'-6

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

| INSPECTION ITEM                                       |  |  |        | ITEM 61                                             |         |     |
|-------------------------------------------------------|--|--|--------|-----------------------------------------------------|---------|-----|
| DECK ITEMS                                            |  |  | GRADES | 45. CHANNEL & CHANNEL PROT.                         |         |     |
| 1. WEARING SURFACE                                    |  |  | G      | a. WATERWAY                                         | G       |     |
| 2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58 |  |  |        | b. ALIGNMENT                                        | G       |     |
| a. CONCRETE                                           |  |  |        | c. SCOUR                                            | G       |     |
| b. TIMBER                                             |  |  | 1      | d. SLOPE PROT., RIP-RAP, DIKES, ETC.                |         |     |
| c. STEEL PLANK                                        |  |  |        | 50. APPROACH ROADWAY CONDITION                      |         |     |
| d. OPEN GRID                                          |  |  |        | 51. APPROACH SLABS                                  |         |     |
| 3. RAILING                                            |  |  |        | 52. PAINT SYSTEM CODE                               |         |     |
| a. CONCRETE                                           |  |  |        | 53. UTILITIES                                       |         |     |
| b. TIMBER                                             |  |  | G      | 54. RESPONSE TO LIVE LOAD                           |         |     |
| c. ALUMINUM                                           |  |  |        | 55. ESTIMATED REMAINING LIFE                        |         |     |
| d. STEEL                                              |  |  |        | 24                                                  |         |     |
| 4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS              |  |  | G      |                                                     |         |     |
| 5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)             |  |  |        | 60. REGULATORY SIGN NOTICE ISSUED                   |         |     |
| 6. DECK EXP JTS. OR DEVICES. NO. OF EACH              |  |  |        | 61. PROMPT-ACTION NOTICE ISSUED                     |         |     |
| a. STEEL PL OR FINGER                                 |  |  |        | 62. PRESENTLY POSTED                                |         |     |
| b. MISC PREFAB                                        |  |  |        | 63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR) |         |     |
| c. COMPRESSION SEAL                                   |  |  |        | 64. TOTAL SNOOPER INSP. TIME (HRS)                  |         |     |
| d. STANDARD JOINTS                                    |  |  |        | 65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)            |         |     |
| e. OPEN JOINTS                                        |  |  |        |                                                     |         |     |
| 7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)          |  |  | G      |                                                     |         |     |
|                                                       |  |  |        | 70. SI&A GENERAL CONDITION RATINGS                  |         |     |
| SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59                |  |  |        | a. DECK                                             | ITEM 58 | 7   |
| 10. LONGITUDINAL BEAMS OR GIRDERS                     |  |  |        | b. SUPERSTRUCTURE                                   | ITEM 59 | 7   |
| 11. LONGITUDINAL JOIST OR STRINGERS                   |  |  | G      | c. SUBSTRUCTURE                                     | ITEM 60 | 7   |
| 12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S           |  |  |        | d. CHANNEL & CHANNEL PROT.                          | ITEM 61 | 7   |
| 13. END DIAP'S, CURTAIN WALLS, & CONN'S               |  |  |        |                                                     |         |     |
| 14. FLOOR BEAMS AND CONNECTIONS                       |  |  |        | 71. SI&A FIELD APPRAISAL RATINGS                    |         |     |
| 15. BEARING ASSEMBLIES (INCLUDING MISALIGN)           |  |  |        | a. WATERWAY ADAQUACY                                | 7       |     |
| 16. DRAINAGE SYSTEM (ON STRUCTURE)                    |  |  | G      | b. APPR. RDWY. ALIGNMENT                            | 7       |     |
| 17. MOVABLE SPAN MACHINERY                            |  |  |        |                                                     |         |     |
|                                                       |  |  |        | 72. FIELD SCOUR EVALUATION                          |         |     |
| SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)               |  |  |        |                                                     |         |     |
| 35. TIM SUB STR.                                      |  |  |        | USE OF INSP. ACCESSIBILITY EQUIPMENT                |         |     |
| a. ABUT. & INT. BENT CAPS & RISERS                    |  |  | G      | SNOOPER (CODE S, 4, OR N)                           |         | HRS |
| b. PILES, POST, SILLS, & BRACING                      |  |  | G      | LADDER                                              |         | NO  |
| c. BULKHEADS, WING'S, & TIE BACKS                     |  |  | G      | BUCKET TRUCK                                        |         | NO  |
| 36. CONC SUB STR.                                     |  |  |        | BOAT                                                |         | NO  |
| a. ABUT. & INT. BENT CAPS                             |  |  |        | OTHER                                               |         | NO  |
| b. ABUT. & BENT COL'S BREASTWALLS                     |  |  |        |                                                     |         |     |
| c. ABUT. & INT. BENT PILES                            |  |  |        |                                                     |         |     |
| d. BACKWALLS, WING'S, RETAIN. WALLS                   |  |  | G      |                                                     |         |     |
| e. ABUT. & BENT FOOTINGS & SILLS                      |  |  | G      |                                                     |         |     |
| 37. STEEL SUB STR.                                    |  |  |        | SPECIAL INSPECTION REQUESTED FOR                    |         |     |
| a. ABUT. & INT. BENT CAPS & RISERS                    |  |  |        |                                                     |         |     |
| b. PILES, BRACING, AND BULKHEADS                      |  |  |        |                                                     |         |     |
| 38. FOUNDATION PILES TYPE MATERIAL                    |  |  |        | NOTE                                                |         |     |
| 39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)           |  |  |        |                                                     |         |     |
| 40. FENDER SYSTEMS                                    |  |  |        | 80. INSPECTED BY: <i>W. B. 4/4</i>                  |         |     |
| 41. DRIFT                                             |  |  | G      | 81. REVIEWED BY:                                    |         |     |

| Bridge I&A Form 1(82)H<br><b>State of North Carolina</b><br><b>Dept. of Transportation</b><br><b>Division of Highways</b> |       | <h1 style="text-align: center;">FIELD INSPECTION REPORT</h1> <p style="text-align: center;"><u>Bridge Inspection &amp; Analysis</u></p>                                                                                                                                                                                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Team Leader <b>BARRY FOXX</b>                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Assisted By <b>DAVID SANDERS</b>                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Item No.                                                                                                                  | Grade |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 1                                                                                                                         | G     | WEARING SURFACE; NEW ASPHALT WEARING SURFACE HAS BEEN PLACED SINCE PREVIOUS INSP. AND IS IN GOOD CONDITION AT THIS TIME.                                                                                                                                                                                                                                                                                                                                                          |  |
| 2b                                                                                                                        | G     | TIMBER FLOOR; NEW FLOOR TIMBERS HAVE BEEN PLACED SINCE PREVIOUS INSP. AND ARE IN GOOD CONDITION AT THIS TIME.                                                                                                                                                                                                                                                                                                                                                                     |  |
| 3b                                                                                                                        | G     | TIMBER RALING; NEW HANDRAIL TIMBERS HAVE BEEN PLACED SINCE PREVIOUS INSP. AND ARE IN GOOD CONDITION AT THIS TIME.                                                                                                                                                                                                                                                                                                                                                                 |  |
| 4                                                                                                                         | G     | TIMBER WHEELGUARDS; NEW TIMBER WHEELGUARDS HAVE BEEN PLACED SINCE PREVIOUS INSP. AND ARE IN GOOD CONDITION AT THIS TIME.                                                                                                                                                                                                                                                                                                                                                          |  |
| 11                                                                                                                        | G     | LONG. JOIST; NEW TIMBER JOIST HAVE BEEN PLACED SINCE PREVIOUS INSP. AND ARE IN GOOD CONDITION AT THIS TIME.                                                                                                                                                                                                                                                                                                                                                                       |  |
| 35a                                                                                                                       | G     | TIMBER CAPS; NEW TIMBER CAPS HAVE BEEN PLACED SINCE PREVIOUS INSP. AND ARE IN GOOD CONDITION AT THIS TIME.                                                                                                                                                                                                                                                                                                                                                                        |  |
| 35b                                                                                                                       | G     | TIMBER POST; SEVERAL NEW TIMBER POST HAVE BEEN PLACED SINCE PREVIOUS INSP. AND ARE IN GOOD CONDITION AT THIS TIME.<br>1 1/2" HIGH GAP BETWEEN TOP OF POST 2 AND 3 AND BOTTOM OF CAP AT ABUTMENT 2.<br>[SEE PHOTOS].<br>1/2" HIGH GAP BETWEEN TOP OF POST 9 AND BOTTOM OF CAP AT ABUTMENT 2.<br>[SEE PHOTO].<br>NO PROBLEMS DUE TO CONDITION AS YET HOWEVER IT NOW CREATES VERY LONG CENTERS BETWEEN POST THAT HAVE SOUND BEARINGS.<br>PRI. MAINT. ISSUED DUE TO THESE CONDITIONS. |  |
| 35c                                                                                                                       | G     | TIMBER BULKHEAD; NEW BULKHEAD TIMBERS HAVE BEEN PLACED AT BOTH ABUTMENTS SINCE PREVIOUS INSP. AND ARE IN GOOD CONDITION AT THIS TIME.                                                                                                                                                                                                                                                                                                                                             |  |
| 61                                                                                                                        | YES   | PROMPT ACTION ISSUED; PRI. MAINT. ISSUED DUE TO GAPS BETWEEN TOP OF POST 2,3 AND 9 AND BOTTOM OF CAP AT ABUTMENT 2.                                                                                                                                                                                                                                                                                                                                                               |  |

## **BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS**

Bridge: 430317

County HAYWOOD

Date: 12/12/2011

**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   | <i>1 TSC</i>     | 1 1/2" HIGH GAP BETWEEN TOP OF POST 2 AND BOTTOM OF CAP AT ABUTMENT 2. |           |
|  3344 | Repair / Replace Timber Substructure Components | LF   | <i>1 3/15/12</i> | 1 1/2" HIGH GAP BETWEEN TOP OF POST 3 AND BOTTOM OF CAP AT ABUTMENT 2. |           |
|  3344 | Repair / Replace Timber Substructure Components | LF   | <i>1 TSC</i>     | 1/2" HIGH GAP BETWEEN TOP OF POST 9 AND BOTTOM OF CAP AT ABUTMENT 2.   |           |

### Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 430317

County HAYWOOD

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. 1                                   | BEARING AREA FOR CAP AT POST 2<br>OF ABUTMENT 2. |
| Priority Level                                                         | Status                                            |                                                  |
| Priority Maintenance                                                   | Division Bridge Maintenance Notification Received |                                                  |
| Submitted Date:                                                        | Submitted By:                                     | Assisted By:                                     |
| 12/12/2011                                                             | BARRY FOXX                                        | DAVID SANDERS                                    |
| Details                                                                |                                                   |                                                  |
| 1 1/2" HIGH GAP BETWEEN TOP OF POST 2 AND BOTTOM OF CAP AT ABUTMENT 2. |                                                   |                                                  |

| MMS Code                                                               | MMS Description                                 | Quantity                                         |
|------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| 3344                                                                   | Repair / Replace Timber Substructure Components | 1 LF                                             |
| Location:                                                              |                                                 |                                                  |
| Abutment Substructure                                                  | Bent/Span No. 1                                 | BEARING AREA FOR CAP AT POST 3<br>OF ABUTMENT 2. |
| Priority Level                                                         | Status                                          |                                                  |
| Priority Maintenance                                                   | Division Bridge Maintenance Notification        |                                                  |
| Submitted Date:                                                        | Submitted By:                                   | Assisted By:                                     |
| 12/12/2011                                                             | BARRY FOXX                                      | DAVID SANDERS                                    |
| Details                                                                |                                                 |                                                  |
| 1 1/2" HIGH GAP BETWEEN TOP OF POST 3 AND BOTTOM OF CAP AT ABUTMENT 2. |                                                 |                                                  |

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 430317 County HAYWOOD

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. 1                                 | BEARING AREA FOR CAP ON POST 9<br>AT ABUTMENT 2. |
| Priority Level                                                       | Status                                          |                                                  |
| Priority Maintenance                                                 | Division Bridge Maintenance Notification        |                                                  |
| Submitted Date:                                                      | Submitted By:                                   | Assisted By:                                     |
| 12/12/2011                                                           | BARRY FOXX                                      | DAVID SANDERS                                    |
| Details                                                              |                                                 |                                                  |
| 1/2" HIGH GAP BETWEEN TOP OF POST 9 AND BOTTOM OF CAP AT ABUTMENT 2. |                                                 |                                                  |



GAP BETWEEN TOP OF POST 2 AND BOTTOM OF CAP AT ABUTMENT 2.



GAP BETWEEN TOP OF POST 3 AND BOTTOM OF CAP AT ABUTMENT 2.



GAP BETWEEN TOP OF POST 9 AND BOTTOM OF CAP AT ABUTMENT 2.

# Structure Data Worksheet

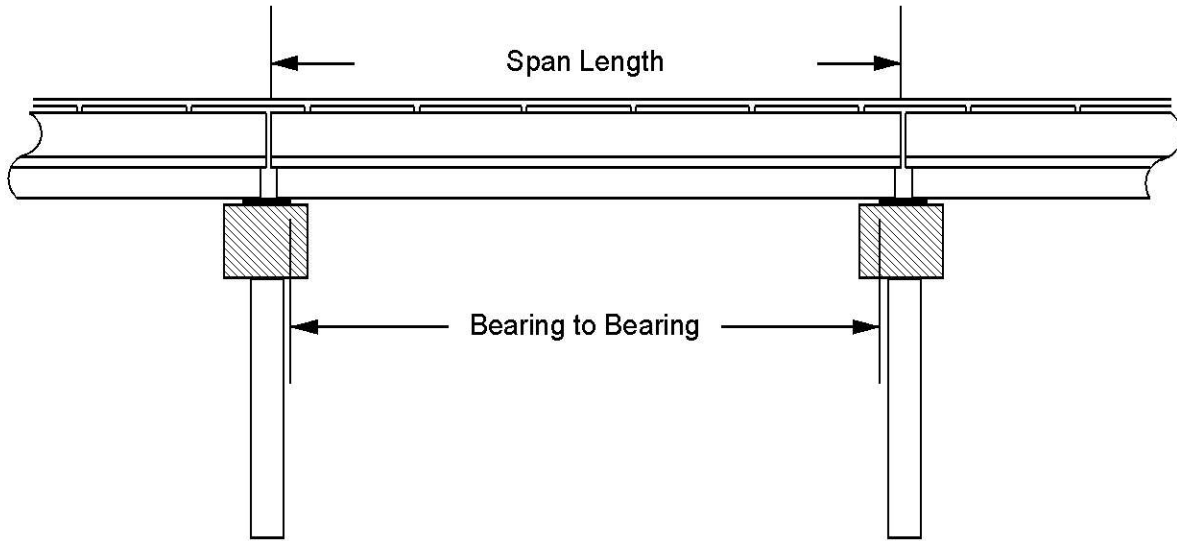
*Spans*

County: HAYWOOD

Structure No: 430317

Date: 12/12/2011

Inspected By: WBF



| Span No | Span Length | Bearing to Bearing | Comments |
|---------|-------------|--------------------|----------|
| 1       | 17.1667     | 15.9167            | NON-NBIS |

# Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 430317 County: HAYWOOD Date: 12/12/2011 By: WBF

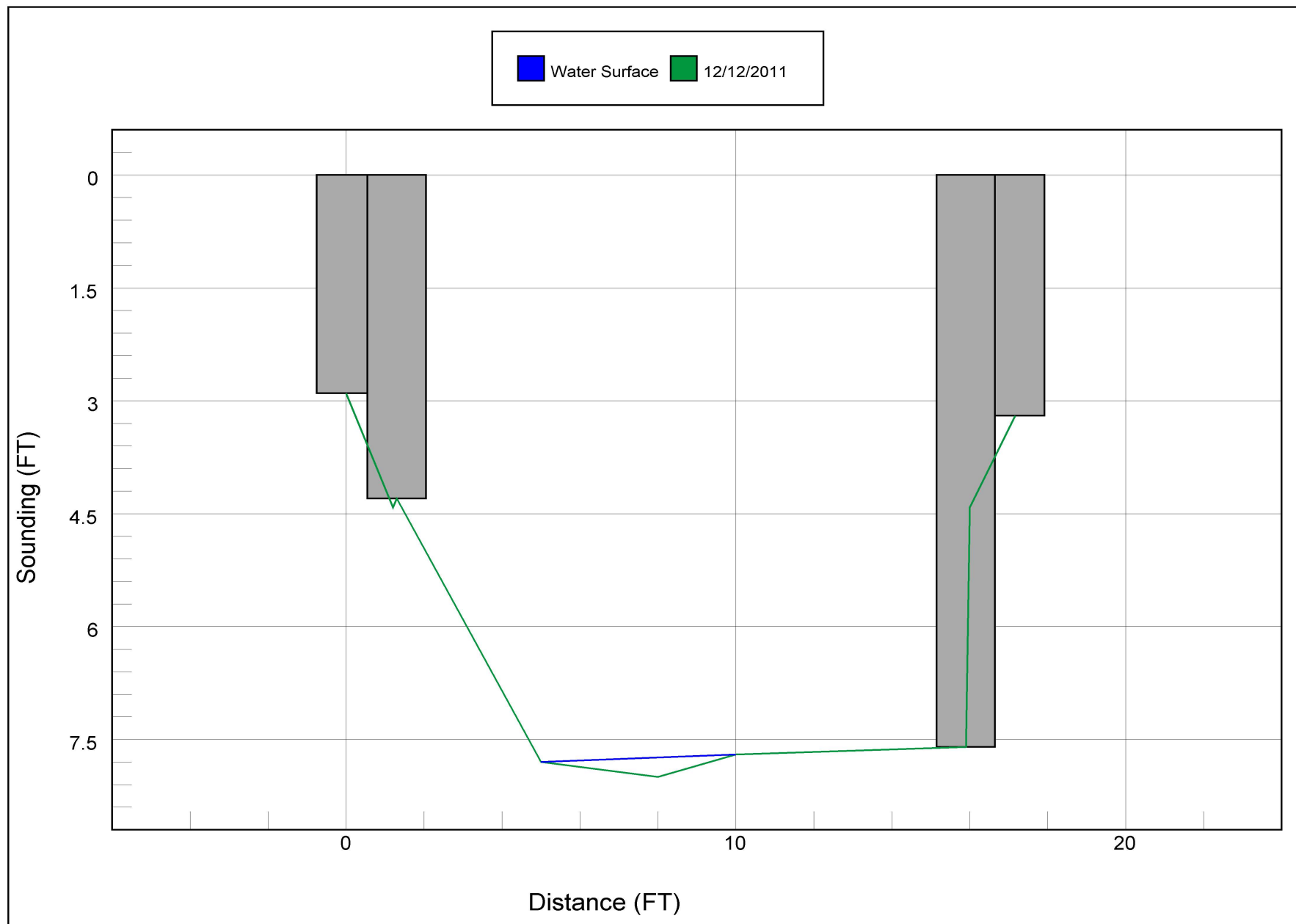
Record sounding from top of rail. Other location if needed: \_\_\_\_\_

Distance from Highwater Mark to top of rail: \_\_\_\_\_ Location of Highwater Mark: NOT DETECTED

| DOWNSTREAM                 |                  |                                 | UPSTREAM                   |                  |                        |
|----------------------------|------------------|---------------------------------|----------------------------|------------------|------------------------|
| Distance<br>(Station) (ft) | Sounding<br>(ft) | Description                     | Distance<br>(Station) (ft) | Sounding<br>(ft) | Description            |
| 0                          | 2.9              | FILL FACE ABUTMENT 1            | 0                          | 3                | FILL FACE ABUTMENT 1   |
| 1.2                        | 4.417            | Top of Cap                      |                            |                  |                        |
| 1.3                        | 4.3              | STREAM FACE ABUTMENT 1          | 1.3                        | 7.5              | STREAM FACE ABUTMENT 1 |
| 5                          | 7.8              | Water Surface/Water Edge (WSWE) |                            |                  |                        |
| 8                          | 8                |                                 |                            |                  |                        |
| 10                         | 7.7              | Water Surface/Water Edge (WSWE) |                            |                  |                        |
| 15.9                       | 7.6              | STREAM FACE ABUTMENT 2          | 15.9                       | 4.5              | STREAM FACE ABUTMENT 2 |
| 16                         | 4.417            | Top of Cap                      |                            |                  |                        |
| 17.167                     | 3.2              | FILL FACE ABUTMENT 2            | 17.167                     | 3                | FILL FACE ABUTMENT 2   |

# STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



# Bridge Inspection Field Sketch

VERIFIED BY BARRY FOXX ON 12/12/11.



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

**Title**  
APPROACH ROADWAY

**Description**  
APPROACH ROADWAY

**Bridge No:** 430317

**Drawn By:** BARRY FOXX

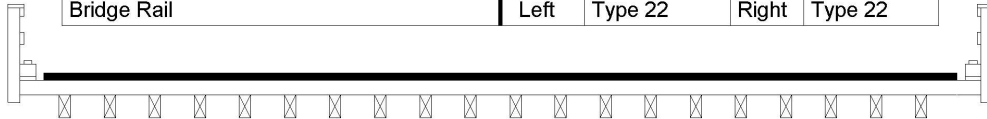
**Date:** 12/12/2011

**File Name:** S0118002899

# Bridge Inspection Field Sketch

VERIFIED BY BARRY FOXX ON 12/12/11.

|                                     |          |                 |               |
|-------------------------------------|----------|-----------------|---------------|
| Deck Width/Out to Out               | 21.333ft | Between Rails   | 20.333ft      |
| Clear Roadway                       | 19.833ft | Wearing Surface | 0.167ft       |
| Median Width                        |          | Median Height   |               |
| Curb Height                         |          | Left 0.75ft     | Right 0.75ft  |
| Sidewalk Width                      |          | Left            | Right         |
| Clear Roadway (Rail to Median)      |          | Left            | Right         |
| Guardrail Width                     |          | Left            | Right         |
| Top of Rail to Deck/Wearing Surface |          | Left 2.833ft    | Right 2.833ft |
| Bridge Rail                         |          | Left Type 22    | Right Type 22 |



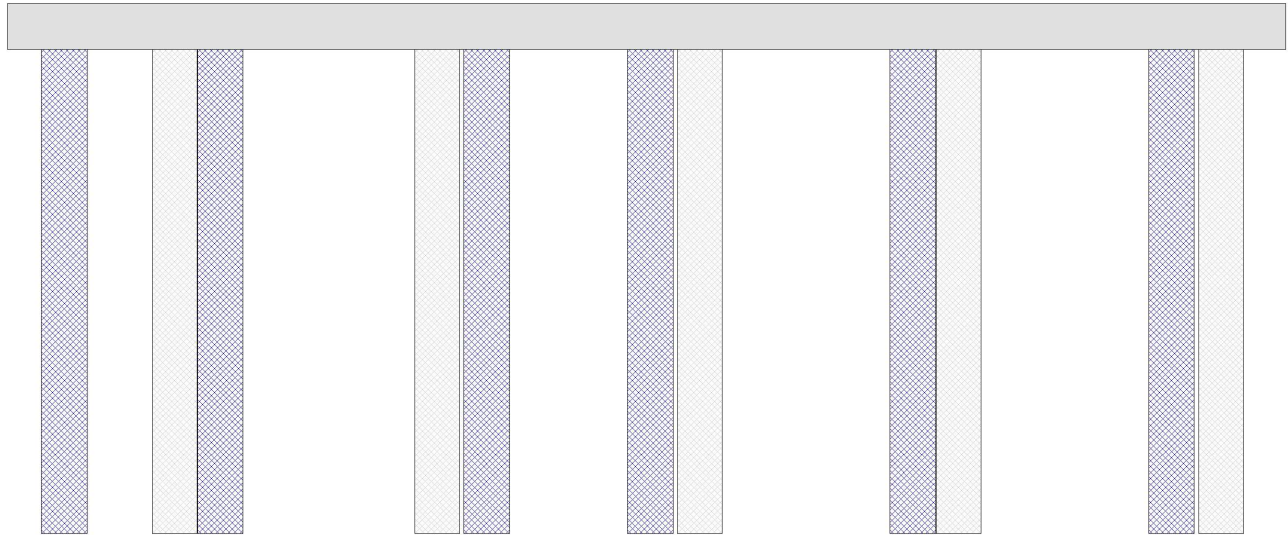
|                               |       |                |   |
|-------------------------------|-------|----------------|---|
| Measurements for Span #       | 1     |                |   |
| Deck Thickness                | 0.313 | Left Overhang  | 1 |
| Top of Rail to Bottom of Beam | 4.417 | Right Overhang | 1 |

| Beam Number | Beam Type            | Spacing | Comments                 |
|-------------|----------------------|---------|--------------------------|
| 1           | Timber (Rectangular) | 1.0ft   | .5 X 1.1667 TIMBER JOIST |
| 2           | Timber (Rectangular) | 1.0ft   |                          |
| 3           | Timber (Rectangular) | 1.0ft   |                          |
| 4           | Timber (Rectangular) | 1.0ft   |                          |
| 5           | Timber (Rectangular) | 1.0ft   |                          |
| 6           | Timber (Rectangular) | 1.0ft   |                          |
| 7           | Timber (Rectangular) | 1.0ft   |                          |
| 8           | Timber (Rectangular) | 1.0ft   |                          |
| 9           | Timber (Rectangular) | 1.0ft   |                          |
| 10          | Timber (Rectangular) | 1.0ft   |                          |
| 11          | Timber (Rectangular) | 1.0ft   |                          |
| 12          | Timber (Rectangular) | 1.0ft   |                          |
| 13          | Timber (Rectangular) | 1.0ft   |                          |
| 14          | Timber (Rectangular) | 1.0ft   |                          |
| 15          | Timber (Rectangular) | 1.0ft   |                          |
| 16          | Timber (Rectangular) | 1.0ft   |                          |
| 17          | Timber (Rectangular) | 1.0ft   |                          |
| 18          | Timber (Rectangular) | 1.0ft   |                          |
| 19          | Timber (Rectangular) | 1.0ft   |                          |
| 20          | Timber (Rectangular) | ft      |                          |

|                           |                      |                                 |                        |
|---------------------------|----------------------|---------------------------------|------------------------|
| <b>Title</b><br>SUPERSTR. |                      | <b>Description</b><br>SUPERSTR. |                        |
| Bridge No: 430317         | Drawn By: BARRY FOXX | Date: 12/12/2011                | File Name: S0118002900 |

# Bridge Inspection Field Sketch

VERIFIED BY BARRY FOXX ON 12/12/11.



|                           |                 |                |                        |                |                          |                           |                |                     |                 |                |
|---------------------------|-----------------|----------------|------------------------|----------------|--------------------------|---------------------------|----------------|---------------------|-----------------|----------------|
| <b>Cap Information</b>    |                 |                | <b>Material</b> Timber |                |                          |                           |                |                     |                 |                |
| Length                    | Width           | Height         | Left Overhang          | Right Overhang | Left Beam to End of Cap. | Right Beam to End of Cap. |                |                     |                 |                |
| 28.000 ft.                | 1.000 ft.       | 1.000 ft.      | 1.250 ft.              | 1.000 ft.      | .500 ft.                 | .500 ft.                  |                |                     |                 |                |
| <b>Subcap Information</b> |                 |                | <b>Material</b>        |                |                          |                           |                |                     |                 |                |
| Length                    | Width           | Height         | Left Overhang          | Right Overhang | Left Pile to Splice.     |                           |                |                     |                 |                |
| <b>Sill Information</b>   |                 |                | <b>Material</b>        |                |                          |                           |                |                     |                 |                |
| Length                    | Width           | Height         |                        |                |                          |                           |                |                     |                 |                |
| <b>Pile #</b>             | <b>Material</b> | <b>Spacing</b> | <b>Width/Dia.</b>      | <b>Height</b>  | <b>Length</b>            | <b>Orientation</b>        | <b>Driven?</b> | <b>Replacement?</b> | <b>Removed?</b> | <b>Collar?</b> |
| 1                         | Timber          | 2.4167 ft.     | 1.0 ft.                | 1.0 ft.        | 0.8333 ft.               | Vertical                  | No             | Yes                 | No              | No             |
| 2                         | Timber          | 1.0 ft.        | 0.9792 ft.             | 0.8333 ft.     | 0.9167 ft.               | Vertical                  | No             | No                  | No              | No             |
| 3                         | Timber          | 4.75 ft.       | 1.0 ft.                | 1.0 ft.        | 1.0 ft.                  | Vertical                  | No             | Yes                 | No              | No             |
| 4                         | Timber          | 1.0833 ft.     | 0.9792 ft.             | 0.8333 ft.     | 1.25 ft.                 | Vertical                  | No             | No                  | No              | No             |
| 5                         | Timber          | 3.5833 ft.     | 1.0 ft.                | 1.0 ft.        | 1.333 ft.                | Vertical                  | No             | Yes                 | No              | No             |
| 6                         | Timber          | 1.0833 ft.     | 1.0 ft.                | 1.0 ft.        | 1.5 ft.                  | Vertical                  | No             | Yes                 | No              | No             |
| 7                         | Timber          | 4.6667 ft.     | 0.9792 ft.             | 0.8333 ft.     | 1.5 ft.                  | Vertical                  | No             | No                  | No              | No             |
| 8                         | Timber          | 1.0 ft.        | 1.0 ft.                | 1.0 ft.        | 1.75 ft.                 | Vertical                  | No             | Yes                 | No              | No             |
| 9                         | Timber          | 4.6667 ft.     | 0.9792 ft.             | 0.8333 ft.     | 1.75 ft.                 | Vertical                  | No             | No                  | No              | No             |
| 10                        | Timber          | 1.0833 ft.     | 1.0 ft.                | 1.0 ft.        | 2.0 ft.                  | Vertical                  | No             | Yes                 | No              | No             |
| 11                        | Timber          |                | 0.9792 ft.             | 0.8333 ft.     | 2.0 ft.                  | Vertical                  | No             | No                  | No              | No             |
|                           |                 |                |                        |                |                          |                           |                |                     |                 |                |
|                           |                 |                |                        |                |                          |                           |                |                     |                 |                |
| <b>Bent/Abutment #:</b> 1 |                 |                | <b>Similar Bents:</b>  |                |                          |                           |                |                     |                 |                |

|                            |                             |                                  |                               |
|----------------------------|-----------------------------|----------------------------------|-------------------------------|
| <b>Title</b><br>ABUTMENT 1 |                             | <b>Description</b><br>ABUTMENT 1 |                               |
| <b>Bridge No:</b> 430317   | <b>Drawn By:</b> BARRY FOXX | <b>Date:</b> 12/12/2011          | <b>File Name:</b> S0118002901 |

# Bridge Inspection Field Sketch

VERIFIED BY BARRY FOXX ON 12/12/11.



| Cap Information                        |           |            | Material      |                |                          |                           |         |              |          |         |
|----------------------------------------|-----------|------------|---------------|----------------|--------------------------|---------------------------|---------|--------------|----------|---------|
| Length                                 | Width     | Height     | Left Overhang | Right Overhang | Left Beam to End of Cap. | Right Beam to End of Cap. |         |              |          |         |
| 28.000 ft.                             | 1.000 ft. | 1.000 ft.  | 1.000 ft.     |                | .833 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    | 2.5833 ft. | 1.0 ft.       | 1.0 ft.        | 1.0833 ft.               | Vertical                  | No      | Yes          | No       | No      |
| 2                                      | Timber    | 1.1667 ft. | 0.8333 ft.    | 1.0 ft.        | 1.25 ft.                 | Vertical                  | No      | No           | No       | No      |
| 3                                      | Timber    | 3.333 ft.  | 1.0 ft.       | 1.0 ft.        | 1.4167 ft.               | Vertical                  | No      | Yes          | No       | No      |
| 4                                      | Timber    | 1.25 ft.   | 1.0 ft.       | 1.0 ft.        | 1.5833 ft.               | Vertical                  | No      | Yes          | No       | No      |
| 5                                      | Timber    | 4.5 ft.    | 0.8333 ft.    | 1.0 ft.        | 1.6667 ft.               | Vertical                  | No      | No           | No       | No      |
| 6                                      | Timber    | 1.0833 ft. | 1.0 ft.       | 1.0 ft.        | 1.75 ft.                 | Vertical                  | No      | Yes          | No       | No      |
| 7                                      | Timber    | 5.5833 ft. | 0.8333 ft.    | 1.0 ft.        | 1.75 ft.                 | Vertical                  | No      | No           | No       | No      |
| 8                                      | Timber    | 1.0833 ft. | 1.0 ft.       | 1.0 ft.        |                          | Vertical                  | No      | Yes          | No       | No      |
| 9                                      | Timber    |            | 0.8333 ft.    | 1.0 ft.        |                          |                           | No      | No           | No       | No      |
|                                        |           |            |               |                |                          |                           |         |              |          |         |
| Bent/Abutment #: 2      Similar Bents: |           |            |               |                |                          |                           |         |              |          |         |

|                            |                      |                                  |                        |
|----------------------------|----------------------|----------------------------------|------------------------|
| <b>Title</b><br>ABUTMENT 2 |                      | <b>Description</b><br>ABUTMENT 2 |                        |
| Bridge No: 430317          | Drawn By: BARRY FOXX | Date: 12/12/2011                 | File Name: S0118002902 |



LOOKING NORTH



LOOKING UPSTREAM FROM TOP OF BRIDGE.



LOOKING DOWNSTREAM FROM TOP OF BRIDGE.



LOOKING SOUTH



UPSTREAM



DOWNSTREAM



REP. OF BOTH ABUTMENTS 1 AND 2. PHOTO WAS TAKEN OF ABUTMENT 2.



REP. OF UNDERSIDE.