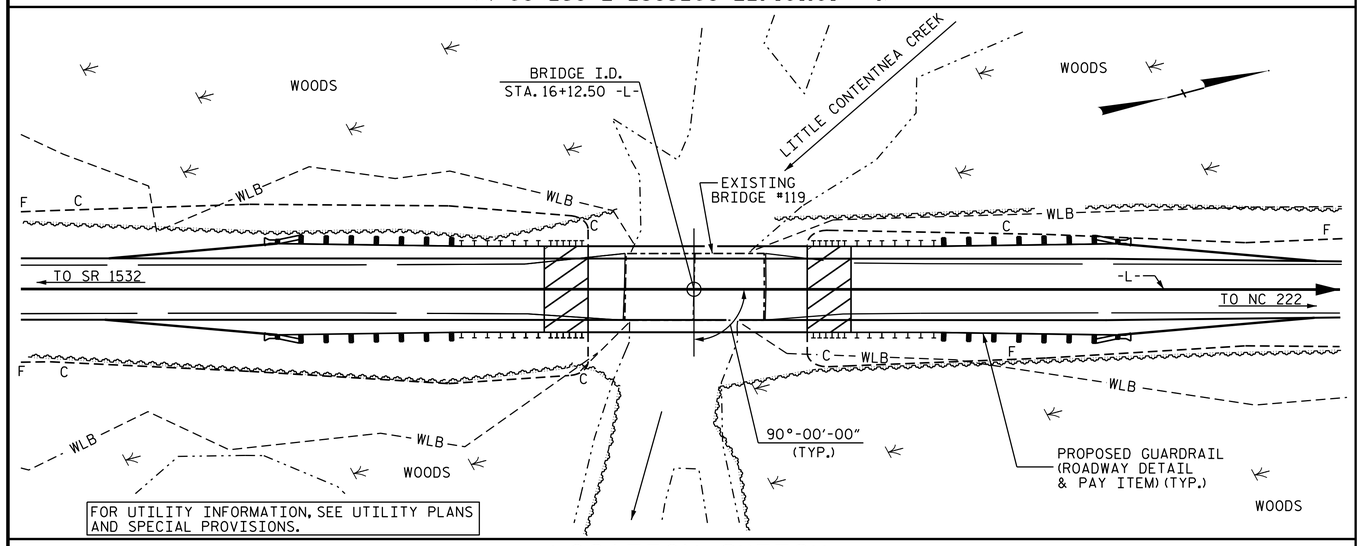
B.M. #201 RR SPIKE IN BASE OF TELEPHONE POLE (OUT OF PROJECT LIMITS)
(N 694259 E 2385268 EL. 101.01 FT.)




LOCATION SKETCH

## NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

ASPHALT WEARING SURFACE IS INCLUDED IN ROADWAY QUANTITY ON ROADWAY PLANS.

THE MATERIALSHOWN IN THE CROSS-HATCHED AREA ON S-1 SHALL BE EXCAVATED FOR A DISTANCE OF 30 FT EACH SIDE OF CENTERLINE ROADWAY AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION. SEE SECTION 412 OF THE STANDARD SPECIFICATIONS.

THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

THE EXISTING STRUCTURE CONSISTING OF 2 SPANS (2 @ 17'-6") WITH A REINFORCED CONCRETE FLOOR ON 6 X 12 TIMBER JOISTS SUPERSTRUCTURE; CLEAR ROADWAY WIDTH OF 24.1' ON A SUBSTRUCTURE CONSISTING OF TIMBER CAPS; TIMBER PILES WITH STEEL CRUTCH BENTS LOCATED AT THE PROPOSED STRUCTURE, SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED FOR LOAD LIMIT.

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL REMOVE THE BRIDGE AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18 - EVALUATING SCOUR AT BRIDGES".

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

## HYDRAULIC DATA

| | | |
|---|---|---|
| DESIGN DISCHARGE | = | 709 C.F.S. |
| FREQUENCY OF DESIGN DISCHARGE | = | 25 YEARS |
| DESIGN HIGH WATER ELEVATION | = | 82.4 FT. |
| DRAINAGE AREA | = | 5.5 SQ. MILES |
| BASE DISCHARGE (Q100) | = | 1,077 C.F.S. |
| BASE HIGH WATER ELEVATION | = | 83.14 FT. |

## OVERTOPPING DATA

| | | |
|---|---|---|
| OVERTOPPING DISCHARGE | = | 1,185 C.F.S. |
| FREQUENCY OF OVERTOPPING | = | 100+ YEARS |
| OVERTOPPING ELEVATION | = | 83.5 FT.* |

*OT ELEVATION REPRESENTS SAG
@ APPROXIMATE STA. 18+50.00 -L-

## TOTAL BILL OF MATERIAL

| | REMOVAL OF EXISTING STRUCTURE | PDA TESTING | UNCLASSIFIED STRUCTURE EXCAVATION | CLASS A CONCRETE | BRIDGE APPROACH SLABS | REINFORCING STEEL | 12" PRESTRESSED CONCRETE PILES | | PILE REDRIVES | VERTICAL CONCRETE BARRIER RAIL | RIP RAP CLASS II (2'-0" THICK) | GEOTEXTILE FOR DRAINAGE | ELASTOMERIC BEARINGS | 3'-0" X 1'-9" PRESTRESSED CONCRETE CORED SLABS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LUMP SUM | EA. | LUMP SUM | CU. YDS. | LUMP SUM | LBS. | NO. | LIN. FT. | EA. | LIN. FT. | TONS | SQ. YDS | LUMP SUM | NO. | LIN. FT. |
| SUPERSTRUCTURE | | | | | LUMP SUM | | | | | 110.25 | | | LUMP SUM | 11 | 605.0 |
| END BENT NO. 1 | | | LUMP SUM | 12.8 | | 2127 | 7 | 385 | 4 | | 67 | 74 | | | |
| END BENT NO. 2 | | | LUMP SUM | 12.8 | | 2127 | 7 | 315 | 4 | | 63 | 70 | | | |
| TOTAL | LUMP SUM | 1 | LUMP SUM | 25.6 | LUMP SUM | 4254 | 14 | 700 | 8 | 110.25 | 130 | 144 | LUMP SUM | 11 | 605.0 |

PROJECT NO. B-4681
WILSON COUNTY
STATION: 16+12.50 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE OVER LITTLE CONTENTNEA CREEK ON SR 1531 BETWEEN SR 1532 & NC 222

NORTH CAROLINA PROFESSIONAL SEAL 21271 ENGINEER GREGORY W. DICKEY

DocuSigned by: Greg Dickey 2/19/2015
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| REVISIONS | | | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | | | S-3 |
| 1 | | | 3 | | | | | TOTAL SHEETS |
| 2 | | | 4 | | | | | 15 |

DRAWN BY : A. K. PATEL DATE : 06-2014
CHECKED BY : P. N. HOLDER DATE : 06-2014
DESIGN ENGINEER OF RECORD: A. K. PATEL DATE : 09-2014

18-FEB-2015 13:36
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emurray