

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 ELEVATION(S) AND CLEARANCE(S) SHOWN ON THE PLANS AT THE POINT(S) OF MINIMUM VERTICAL CLEARANCE ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE ELEVATION(S) ON THE EXISTING PAVEMENT AND CHECK THE CLEARANCE. REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM VERTICAL CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.
- FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.
- REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.
- NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
- ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 5 OR SYSTEM 6 OF THE STRUCTURAL STEEL SHOP COATINGS PROGRAM AND SECTION 442-8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

TOTAL BILL OF MATERIAL

| | REMOVAL OF EXISTING STRUCTURE | ASBESTOS ASSESSEMENT | FOUNDATION EXCAVATION | REINFORCED CONCRETE DECK SLAB | GROOVING BRIDGE FLOORS | CLASS A CONCRETE | BRIDGE APPROACH SLABS | REINFORCING STEEL | SPIRAL COLUMN REINFORCING STEEL | APPROX. 492242 LBS. STRUCTURAL STEEL | PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES | HP 12 X 53 STEEL PILES | TWO BAR METAL RAIL | 1'-2" X 2'-6" CONCRETE PARAPET | 1'-2" X 2'-8 1/2" CONCRETE PARAPET | 4 INCH SLOPE PROTECTION | DISC BEARINGS | ELASTOMERIC BEARINGS | FOAM JOINT SEALS | |
|----------------|-------------------------------|----------------------|-----------------------|-------------------------------|------------------------|------------------|-----------------------|-------------------|---------------------------------|--------------------------------------|---------------------------------------------------------|------------------------|--------------------|--------------------------------|------------------------------------|-------------------------|---------------|----------------------|------------------|----------|
| | LUMP SUM | LUMP SUM | LUMP SUM | SQ. FT. | SQ. FT. | CU. YDS. | LUMP SUM | LBS. | LBS. | LUMP SUM | EACH | No. | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | SQ. YDS. | LUMP SUM | LUMP SUM | LUMP SUM |
| SUPERSTRUCTURE | | | | 11,232 | 10,926 | | | | | | | | 397.0 | 207.43 | 207.43 | | | | | |
| END BENT 1 | | | | | | 62.3 | | 9,361 | | | 10 | 10 | 550 | | | 25.1 | | | | |
| BENT 1 | | | LUMP SUM | | | 117.9 | | 19,316 | 1,537 | | 24 | 24 | 720 | | | | | | | |
| END BENT 2 | | | | | | 61.6 | | 9,336 | | | 10 | 10 | 500 | | | 25.1 | | | | |
| TOTAL | LUMP SUM | LUMP SUM | LUMP SUM | 11,232 | 10,926 | 241.8 | LUMP SUM | 38,013 | 1,537 | LUMP SUM | 44 | 44 | 1770 | 397.0 | 207.43 | 207.43 | 50.2 | LUMP SUM | LUMP SUM | LUMP SUM |

NOTES (CONTINUED)

WORK SHALL NOT BE STARTED ON THIS BRIDGE UNTIL THE ROADWAY SECTION HAS BEEN EXCAVATED.

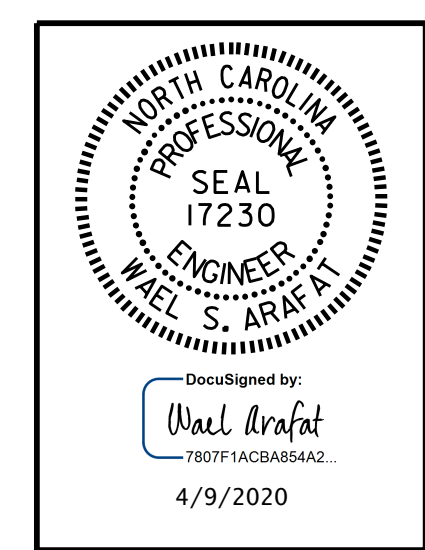
FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.

THE EXISTING STRUCTURE CONSISTING OF 4 SIMPLE SPANS (1 @ 55', 2 @ 76', AND 1 @ 59') WITH A REINFORCED CONCRETE DECK ON 4 LINES OF STEEL I BEAMS AND A CLEAR ROADWAY WIDTH OF 24 FT ON REINFORCED CONCRETE POST AND BEAM BENTS ON FOOTINGS ON PRESTRESSED PILES AND REINFORCED CONCRETE END BENTS ON PRESTRESSED PILES AND LOCATED AT PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY NOT POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, A LOAD LIMIT MAY BE POSTED AND MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT. FOR REMOVAL OF EXISTING STRUCTURE, SEE SPECIAL PROVISION.

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.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PROJECT NO. BR-0047
STOKES COUNTY
STATION: 18+27.98 -L-

SHEET 3 OF 3
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
GENERAL DRAWING
FOR BRIDGE ON SR 1105
OVER U.S. 52 (PILOT MOUNTAIN PKWY.)
BETWEEN SR 1362
AND SR 1112

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-3 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 39 |

| | |
|------------------------------------------|--------------|
| DRAWN BY : M.W. BREELAND | DATE : 10-19 |
| CHECKED BY : W.S. ARAFAT | DATE : 12-19 |
| DESIGN ENGINEER OF RECORD: O. PUIGCERVER | DATE : 11-19 |

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