

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 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.  
 PRESTRESSED CONCRETE DECK PANELS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.  
 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.  
 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.  
 FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.  
 FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.  
 WORK SHALL NOT BE STARTED ON BENT 1 UNTIL ROADWAY SECTION HAS BEEN EXCAVATED.

**TOTAL BILL OF MATERIAL**

	FOUNDATION EXCAVATION FOR BENT NO. 1 AT STA. 20+88.94 -Y19-	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS, STATION 20+88.94 -Y19-	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	54" PRESTRESSED CONCRETE GIRDERS	PILE DRIVING EQUIPMENT SET UP FOR HP 12x53 STEEL PILES	HP 12x53 STEEL PILES	THREE BAR METAL RAIL	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS
	LUMP SUM	SQ. FT.	SQ. FT.	CU. YD.	LUMP SUM	LBS.	LBS.	NO. LIN. FT.	EACH	NO. LIN. FT.	LIN. FT.	SQ. YD.	LUMP SUM
SUPERSTRUCTURE		8,015	5,194		LUMP SUM			10 891.41			343.92		LUMP SUM
END BENT 1				42.8		5,110			9 9 630			212	
BENT 1	LUMP SUM			58.2		9,190	1,224		18 18 990				
END BENT 2				42.3		5,318			9 9 675			377	
TOTAL	LUMP SUM	8,015	5,194	143.3	LUMP SUM	19,618	1,224	10 891.41	36 36 2,295	343.92	589	LUMP SUM	

PROJECT NO. R-2233BB  
RUTHERFORD COUNTY  
 STATION: 20+88.94 -Y19-

SHEET 3 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

GENERAL DRAWING  
 FOR BRIDGE ON GREEN ST. OVER  
 US 221 RUTHERFORDTON BYPASS  
 BETWEEN US 221 AND US 74 ALT.

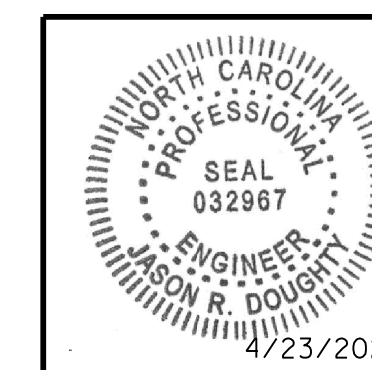
REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S3-3
2			4			TOTAL SHEETS 34



333 FAYETTEVILLE STREET, SUITE 500  
 RALEIGH, NC 27601  
 NC LICENSE NO. C-2979

**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



DocuSigned by:  
 Jason R Doughty  
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4/22/2020  
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DESIGNED BY: J. BORUTA DATE: JULY 2019  
 DRAWN BY: K. WHITE DATE: MAY 2019  
 CHECKED BY: B. LOFLIN DATE: SEPT 2019  
 DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: NOV 2019