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DESIGN DISCHARGE	= 3400 C.F.S.
FREQUENCY OF DESIGN FLOOD	
DESIGN HIGH WATER ELEVATION	
DRAINAGE AREA	
BASE DISCHARGE (0100) BASE HIGH WATER ELEVATION	
BASE HIGH WATER ELEVATION	= 378.23 Fl.

OVERTOPF	PING	FLOO	D DATA
OVERTOPPING DISCHA FREQUENCY OF OVERTO OVERTOPPING FLOOD	OPPING F	LOOD	= 500+ YF
▲ ELEVATION IS TAKE	N AT SAG	IN ROAD	@ STA.13+65

HYDRAULIC DATA

DRAWN BY :	T.L. AVERETTE	DATE :04/16
CHECKED BY :_	K.W. ALFORD	DATE : <u>1/17</u>

22-FEB-2017 08:00 R:\Structures\Plans\Gen\_draw\B-5166\_SD\_GD.dgn kalford

ASSUMED LIVE LOAD = HL 93 OR ALTERNATE LOADING.

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

NOTES

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.

AT THE CONTRACTOR'S OPTION, AND UPON REMOVAL OF THE CAUSEWA THE CLASS II RIP RAP USED IN THE CAUSEWAY MAY BE PLACED AS RIP RAP SLOPE PROTECTION. SEE SPECIAL PROVISIONS FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS AT STATION 16+34.00 -L-.

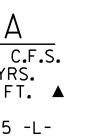
ONLY ONE CAUSEWAY SHALL BE PERMITTED TO BE IN THE STREAM AT ANY POINT IN TIME.

INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERA REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR "REMOVAL OF EXISTING STRUCTURE AT STATION 16+34.00 -L-".

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET S-1 SHALL BE EXCAVATED FOR A DISTANCE OF 40 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.

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

	TOTAL BILL OF MATERIAL																
5	UNCLASSIFIED STRUCTURE EXCAVATION	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	HP 1 STEEI	2 X 53 _ PILES	STEEL PILE POINTS	VERTICAL CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-O" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	PRE: CC	0'X 1'-9" STRESSED NCRETE ED SLABS	PRES COI	′X2′-O″ STRESSED NCRETE DSLABS	ASBESTOS ASSESSMENT
	LUMP SUM	CU. YDS.	LUMP SUM	LBS.	LBS.	NO.	LIN.FT.	EA.	LIN.FT.	TON	SQ.YD.	LUMP SUM	NO.	LIN.FT.	NO.	LIN.FT.	LUMP SUM
			LUMP SUM						240.50			LUMP SUM	11	605.0	11	715.0	
		21.6		2,636		7	140	7		295	330						
		20.9		10,152	1,630												
		21.8		2,636		7	105	7		245	270						
	LUMP SUM	64.3	LUMP SUM	15,424	1,630	14	245	14	240.50	540	600	LUMP SUM	11	605.0	11	715.0	LUMP SUM



	THE EXISTING STRUCTURE CONSISTING OF 3 SPANS (1 @ 35'-3", 1 @ 35'-0",1 @ 35'-3") WITH REINFORCED CONCRETE DECK ON STEEL I-BEAMS WITH CLEAR ROADWAY WIDTH OF 24'-0" ON A SUBSTRUCTURE CONSISTING OF REINFORCED CONCRETE CAPS AND TIMBER PILES AT THE END BENTS AND REINFORCED CONCRETE POST AND BEAM AT THE INTERIOR BENTS AND LOCATED AT THE PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED BELOW THE LEGAL LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE FURTHER DETERIORATE, THIS LOAD LIMITATION MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT.
IAY,	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 TRANSPORTAION 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.
	REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED IN A MANNER THAT PREVENTS DEBRIS FROM FALLING INTO THE WATER.THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS FOR REVIEW AND REMOVE THE BRIDGE IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.
D AL NG	THE EXISTING CONCRETE ABUTMENTS AND CONCRETE SLOPE PROTECTION AT THE PROJECT SITE SHALL BE REMOVED. THIS REMOVAL SHALL BE CONSIDERED TO BE INCIDENTAL TO THE "REMOVAL OF EXISTING STRUCTURE AT STATION 16+34.00 -L-" PAY ITEM.
	THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH ``HEC 18-EVALUATING SCOUR AT BRIDGES."
	ASPHALT WEARING SURFACE IS INCLUDED IN ROADWAY QUANTITY ON ROADWAY PLANS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

## B-5166 PROJECT NO.\_\_\_\_ GRANVILLE

	G	RANV	ILLE	CO	_ COUNTY		
	STATI	STATION: 16+34.00 -L					
	SHEET 3 OF 3						
ANNING CAROLINA	DEPA	STATI	OF NORTH CAR		TION		
SEAL	GENERAL DRAWING						
SEAL 29441 The CAROLINA SEAL 29441 W. ALTONIO	FOR BRIDGE OVER GRASSY CREEK ON SR 1300 (CORNWALL RD.)						
DocuSigned by:	BETWEEN SR 1410 & SR 1413						
F245838930BF40E 2/22/2017			SHEET NO.				
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S-3		
FINAL UNLESS ALL SIGNATURES COMPLETED	1		3 4		TOTAL SHEETS 20		