

DRAWN BY :		J.P. ADAMS	_ DATE :	11/2015
CHECKED BY	:	K.W. ALFORD	DATE :	1/2016

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RIAL					
CSL TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL
EA.	LUMP SUM	CU. YDS.	LUMP SUM	LBS.	LBS.
	LUMP SUM		LUMP SUM		
		22.6		2736	
1		21.5		9512	1377
		22.6		2736	
1	LUMP SUM	66.7	LUMP SUM	14984	1377

OVERTOPPING FLOOD ELEVATION =

398.20 @ STA.13+75.00 -L-

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE THIS BRIDGE HAS BEEN DESIGNED IN ACCOP THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THIS BRIDGE IS LOCATED IN SEISMIC ZON FOR OTHER DESIGN DATA AND GENERAL NOT

SHEET SN.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL

FOR CRANE SAFETY, SEE SPECIAL PROVISION FOR GROUT FOR STRUCTURES, SEE SPECIAL

AT THE CONTRACTOR'S OPTION, AND UPON R THE CAUSEWAY. THE CLASS II RIP RAP USE CAUSEWAY MAY BE PLACED AS RIP RAP SLO PROTECTION OR BANK STABILIZATION. SEE PROVISIONS FOR CONSTRUCTION, MAINTENAM REMOVAL OF TEMPORARY ACCESS AT STATIC 15+12.00 -L-.

INASMUCH AS THE PAINT SYSTEM ON THE E STRUCTURAL STEEL CONTAINS LEAD, THE CON ATTENTION IS DIRECTED TO ARTICLE 107-STANDARD SPECIFICATIONS. ANY COSTS RES FROM COMPLIANCE WITH APPLICABLE STATE REGULATIONS PERTAINING TO HANDLING OF CONTAINING LEAD BASED PAINT SHALL BE IN THE BID PRICE FOR "REMOVAL OF EXIS" STRUCTURE AT STATION 15+12.00 -L-."

THE MATERIAL SHOWN IN THE CROSS-HATCH SHEET S-1 SHALL BE EXCAVATED FOR A DIS FT EACH SIDE OF CENTERLINE ROADWAY AS THE ENGINEER. THIS WORK WILL BE PAID F CONTRACT LUMP SUM PRICE FOR UNCLASSIF EXCAVATION. SEE SECTION 412 OF THE STA SPECIFICATIONS.

THE EXISTING STRUCTURE CONSISTING OF (2 @ 15', 1 @ 40', 1 @ 14', 1 @ 16') OF STEEL WITH A CLEAR ROADWAY WIDTH OF 19.2 FEE A TIMBER DECK WITH ASPHALT WEARING SL TIMBER CAP AND PILES AT THE END BENTS POST AND CONCRETE SILLS AT THE INTERI LOCATED AT THE PROPOSED SITE SHALL BE EXISTING BRIDGE IS PRESENTLY POSTED F SHOULD THE STRUCTURAL INTEGRITY OF THE DETERIORATE DURING CONSTRUCTION OF TH BRIDGE, A LOAD LIMIT MAY BE POSTED AND REDUCED AS FOUND NECESSARY DURING THE PROJECT.FOR REMOVAL OF EXISTING STRUC SPECIAL PROVISION.

THE SUBSTRUCTURE OF THE EXISTING BRID ON THE PLANS IS FROM THE BEST INFORMA AVAILABLE. SINCE THIS INFORMATION IS THE CONVENIENCE OF THE CONTRACTOR, THE SHALL HAVE NO CLAIM WHATSOEVER AGAINS DEPARTMENT OF TRANSPORTATION FOR ANY ADDITIONAL COST INCURRED BASED ON DIF BETWEEN THE EXISTING BRIDGE SUBSTRUCT ON THE PLANS AND THE ACTUAL CONDITION PROJECT SITE.

REMOVAL OF THE EXISTING BRIDGE SHALL IN A MANNER THAT PREVENTS DEBRIS FROM INTO THE WATER. THE CONTRACTOR SHALL S DEMOLITION PLANS FOR REVIEW AND REMOV BRIDGE IN ACCORDANCE WITH ARTICLE 402 STANDARD SPECIFICATIONS.

THE EXISTING CONCRETE SILL SHALL BE RE COMPLETELY.

NOTES					
E LOADING. RDANCE WITH	THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH ``HEC 18-EVALUATING SCOUR AT BRIDGES.''				
ı <b>ட</b> 1	ASPHALT WEARING SURFACE IS INCLUDED IN ROADWAY QUANTITY ON ROADWAY PLANS.				
ES, SEE	FOR PILES, SEE GEOTECHNICAL SPECIAL PROVIONS AND SECTION 450 OF THE STANDARD SPECIFICATIONS.				
E SPECIAL	PILES AT END BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 100 TONS PER PILE.				
L PROVISIONS.	PILES AT END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 95 TONS PER PILE.				
NS.	DRIVE PILES AT END BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.				
EMOVAL OF	DRIVE PILES AT END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE.				
D IN THE DPE SPECIAL NCE AND DN	STEEL H-PILE POINTS ARE REQUIRED FOR STEEL H-PILES AT END BENT 1 AND END BENT 2.FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.				
EXISTING NTRACTOR'S 1 OF THE	FOR DRILLED PIERS, SEE GEOTECHNICAL SPECIAL PROVISIONS AND SECTION 411 OF THE STANDARD SPECIFICATIONS.				
SULTING E OR FEDERAL MATERIALS INCLUDED	DRILLED PIERS AT BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 410 TONS PER PIER.CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 65 TSF.				
ED AREA OF	PERMANENT STEEL CASINGS ARE REQUIRED FOR DRILLED PIERS AT BENT 1.DO NOT EXTEND PERMANENT CASINGS BELOW ELEVATION 375.0 WITHOUT PRIOR APPROVAL FROM THE ENGINEER.				
FOR AT THE FIED STRUCTURE	INSTALL DRILLED PIERS AT BENT 1 TO A TIP ELEVATION NO HIGHER THAN 368 FT.AND WITH THE REQUIRED TIP RESISTANCE.				
5 SPANS I-BEAMS ET AND HAVING IREACE ON	THE SCOUR CRITICAL ELEVATION FOR BENT 1 IS ELEVATION 373.0. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.				
AND TIMBER OR BENTS AND REMOVED.THE OR LOAD LIMIT.	SID INSPECTIONS MAY BE REQUIRED FOR DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SID INSPECTIONS, FOR SID INSPECTIONS, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.				
E BRIDGE HE PROPOSED D MAY BE LIFE OF THE CTURE, SEE	CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR CSL TESTING.FOR CSL TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.				
GE INDICATED ATION SHOWN FOR	DO NOT USE SLURRY CONSTRUCTION FOR DRILLED PIERS AT BENT 1.				
CONTRACTOR ST THE DELAYS OR	FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.				
FERENCES URE SHOWN IS AT THE	AT THE CONTRACTOR'S OPTION, PRESTESSED CONCRETE END BENT AND BENT CAPS MAY BE SUBSTITUTED IN THE PLACE OF THE CAST-IN-PLACE CAPS. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER TO DECEIVE DEVISED PLANS AND DETAILS FROM THE				
BE PERFORMED / FALLING SUBMIT VE THE 2-2 OF THF	STRUCTURES MANAGEMENT UNIT. THE REDESIGN AND ANY ADDITIONAL MATERIALS NEEDED WILL BE AT NO ADDITIONAL COST TO THE CONTRACTOR.				
EMOVED	PROJECT NOB-5171				
	GRANVILLE COUNTY				
	STATION: 15+12.00 -L-				
	SHEET 2 OF 2				
	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALETCH				
POP SF AL	GENERAL DRAWING				
DocuSigned by:	BRIDGE ON SR 1400 OVER AARONS CREEK BETWEEN SR 1401 AND SR 1403				
F245838930BF40E 3/22/201	6 REVISIONS SHEET NO.				
DOCUMENT NOT C FINAL UNLE SIGNATURES C	CONSIDEREDNO.DT:DATE:S-2SS ALL13TOTAL SHEETSOMPLETED2418				