

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 AREA 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.

ALL PAVEMENT MARKING WILL BE IN ACCORDANCE WITH THE PAVEMENT MARKING PLANS AND SHALL PROVIDE FOR BICYCLES.

THE EXISTING PAVEMENT WITHIN THE AREA OF THE END BENT PILES SHALL BE REMOVED AND THE ROADBED SCARIFIED TO A MINIMUM DEPTH OF 2'-0".

AT THE CONTRACTORS OPTION, AND UPON REMOVAL OF THE CAUSEWAY, 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 22+55.00 -L-.

INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR "REMOVAL OF EXISTING STRUCTURE" AT STATION 22+55.00 -L-.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET S-1 SHALL BE EXCAVATED FOR A DISTANCE OF 60 FT. (RT) AND 50 FT.(LT) OF CENTERLINE ROADWAY AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION.

THE EXISTING STRUCTURE CONSISTS OF 5 SPANS (1 @ 40'-3", 3 @ 40'-0" AND 1 @ 40'-3") WITH A REINFORCED CONCRETE DECK ON I-BEAMS: WITH A CLEAR ROADWAY WIDTH OF 22'-0" ON REINFORCED CONCRETE CAP AND TIMBER PILES AT END BENTS AND BENT 4: REINFORCED CONCRETE POST AND BEAM AT BENTS 1 THROUGH 3 AND LOCATED AT THE PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY 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.

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.

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED IN A MANNER THAT PEVENTS 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.

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

THE LOCATION OF THE CONSTRUCTION JOINT IN THE DRILLED PIERS IS BASED ON AN APPROXIMATE GROUND LINE ELEVATION AT BENTS 2 AND 3. IF THE CONSTRUCTION JOINT IS ABOVE THE ACTUAL GROUND ELEVATION. THE CONTRACTOR SHALL PLACE THE CONSTRUCTION JOINT 1 FT. BELOW THE GROUND LINE.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

HYDRAULIC DATA

DESIGN DISCHARGE FREQUENCY OF DESIGN FLOOD

DESIGN HIGH WATER ELEVATION DRAINAGE AREA BASE DISCHARGE (Q100)

BASE HIGH WATER ELEVATION

= 26,130 C.F.S. = 50 YRS. = 505.9

= 403 SQ.MI. = 30,790 C.F.S.

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE = 34,000 C.F.S. FREQUENCY OF OVERTOPPING FLOOD = 200 ± YRS. OVERTOPPING FLOOD ELEVATION = 508.8

> PROJECT NO. B-4972CABARRUS _ COUNTY STATION: 22+55.00 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING FOR BRIDGE OVER ROCKY RIVER ON SR 1006 (MT. PLEASANT RD.) BETWEEN SR 1105 AND NC 200

		SHEET NO.				
10.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			<u></u>			TOTAL SHEETS
2			4			31

				— T(DTAL	BIL	L OF	MA	ATEF	RIA	L —				<u> </u>			
	CONSTRUCTION MAINTENANCE & REMOVAL OF TEMPORARY ACCESS	REMOVAL OF	DRIL	-0"DIA. LED PIERS N SOIL	4'-0"I DRILLED NOT IN	PIERS	PERMAN STEEL CA FOR 4'-0 DRILLED	SING "DIA.	CS TEST	L	STRU	SSIFIED CTURE /ATION	CONCRE WEARI SURFA	NG	GROOVIN BRIDGE FLOORS		CLASS A ONCRETE	BRIDGE APPROACH SLABS
	LUMP SUM	LUMP SUM	L	IN.FT.	LIN.FT.		LIN.F	.FT. E		CH C	LUMP SUM		SQ.FT.		SQ.FT.		CU. YDS.	LUMP SUM
SUPERSTRUCTURE													12,67	7	12,176			LUMP SUM
END BENT 1																	28.4	
BENT 1		14.75		37.00		21.40										46.9		
BENT 2	NT 2 69.75		24.00		57.60										35. 1			
BENT 3			51.00		31.00												34.6	
END BENT 2																	28.4	
TOTAL	LUMP SUM	LUMP SUM		135.50	92.0	00	79.0	00			LUMP SUM		12,67	7	12,176		173.4	LUMP SUM
	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL		2 12X53 STEEL PILES	TWO BAR METAL RAIL	METAL CONC		CLAS	RAP SS II THICK)	FUR		L DE VDIVICE		·	FOAM JOINT SEALS	3'-0" X 3'-3 PRESTRESSE CONCRETE BOX BEAMS		
	LBS.	LBS.	NO.	LIN.FT.	LIN.FT.	LI	N. FT.	TONS		SQ.	YDS.	LUMP	SUM	LUI	MP SUM	NO.	LIN.FT.	
SUPERSTRUCTURE					745.25	761.00					LUMP SUM LL		LUI	MP SUM	48	4,560.00		
END BENT 1	3 , 914		7	175				4	55	5	05							
BENT 1	16,494	3,366																
BENT 2	17,164	3,534																
BENT 3	16,190	3,207																
END BENT 2	3,914		7	175				4	00	4	45							
TOTAL	57,676	10,107	14	350	745.25	76	51.00	8	55	9	50	LUMP	SUM	LUI	MP SUM	48	4,560.00	

_ DATE : <u>11/18/14</u> N.D'AIUTO DRAWN BY : _ DATE : 12/19/14 T.H.CARROLL DESIGN ENGINEER OF RECORD: J.P. MCCARTHA DATE: 12/19/14