HYDRAULIC DATA

DESIGN DISCHARGE = 20,700 CFS DESIGN FREQUENCY = 5 YRS DESIGN HW ELEVATION = 24.8 FT

BASE DISCHARGE = 44,300 CFS BASE FREQUENCY = 100 YRS BASE HW ELEVATION = 30.9 FT

OVERTOPPING FLOOD DATA OVERTOPPING DISCHARGE = 26,000 CFS OVERTOPPING FREQUENCY = 10+YRS OVERTOPPING ELEVATION = 26.2 * FT DRAINAGE AREA = 2,800 SQ.MI.

* OVERTOPPING OCCURS AT LOW ROADWAY ELEVATION STA. 15+00; BEGIN CONSTRUCTION FOR B-4926; BRIDGE RS 213795; ELEVATION=26.2

TOTAL BILL OF MATERIAL												
	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMPORARY ACCESS	REMOVAL OF EXISTING STRUCTURE	ASBESTOS ASSESSMENT	3'-6"Ø DRILLED PIERS	PERMANENT STEEL CASING FOR 3'-6"Ø DRILLED PIERS	DYNAMIC PILE TESTING	SID INSPECTIONS		REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS
	LUMP SUM	LUMP SUM	LUMP SUM	LIN. FT.	LIN.FT.	EACH	EACH	EACH	SQ.FT.	SQ.FT.	CU. YARDS	LUMP SUM
SUPERSTRUCTURE									7,805	7,481		LUMP SUM
END BENT NO.1											26.6	
BENT NO.1				226.5	70.5						25.0	
BENT NO.2				220.5	82.5						24.8	
END BENT NO.2											26.6	
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	447.0	153.0	2	2	2	7,805	7,481	103.0	LUMP SUM

	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	C	45" ESTRESSED ONCRETE GIRDERS	PILE DRIVING EQUIPMENT SETUP FOR HP 12x53 STEEL PILES		12 X 53 L PILES	PILE REDRIVES	TWO BAR METAL RAIL	1'-2" X 2'-6" CONCRETE PARAPET	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS
	LBS.	LBS.	NO.	LIN.FT.	NO.	NO.	LIN. FT.	EACH	LIN.FT.	LIN. FT.	TONS	SQ. YARDS	LUMP SUM
SUPERSTRUCTURE			15	1062.08					411.67	426.67			LUMP SUM
END BENT NO.1	4181				6	6	330				270	300	
BENT NO.1	26,278	4998											
BENT NO.2	25,736	4853											
END BENT NO.2	4165				6	6	300				212	236	
TOTAL	60,360	9851	15	1062.08	12	12	630	6	411.67	426.67	482	536	LUMP SUM

DWN. BY: WDC DATE: 03/202 DATE: 03/202 CHKD. BY: PRG ES.EGR.OF RECORD: PRG DATE: 03/202

GENERAL NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

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

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

AFTER SERVING AS A TEMPORARY STRUCTURE, THE EXISTING STRUCTURE CONSISTING OF 4 SPANS; 1 @ 41'-9", 1 @ 42'-6", 1 @ 42'-6", 41'-9", ON 4 LINES OF REINFORCED CONCRETE DECK GIRDERS, WITH A CLEAR ROADWAY WIDTH OF 23'-10", ON REINFORCED CONCRETE ABUTMENTS AND INTERIOR BENTS, LOCATED JUST NORTH OF THE SITE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY NOT POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL CONDITION OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, THE LOAD LIMIT MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT.

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.

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 ASBESTOS ASSESSMENT, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

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.

FOR EMBANKMENT EXCAVATION NEAR LEFT SIDE OF BRIDGE, SEE ROADWAY PLANS. ROADWAY DETAIL AND PAY ITEM.

FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS, SEE SPECIAL PROVISIONS.

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

PROJECT NO. B-4926

LENOIR COUNTY

STATION: 35+00.00 -L-

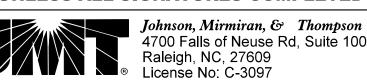
SHEET 4 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING FOR BRIDGE OVER

NEUSE RIVER OVERFLOW ON NC-55 BETWEEN SR 1810 AND SR 1804

UNLESS ALL SIGNATURES COMPLETED REVISIONS Johnson, Mirmiran, & Thompson Inc. 4700 Falls of Neuse Rd, Suite 100, DATE: BY:



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