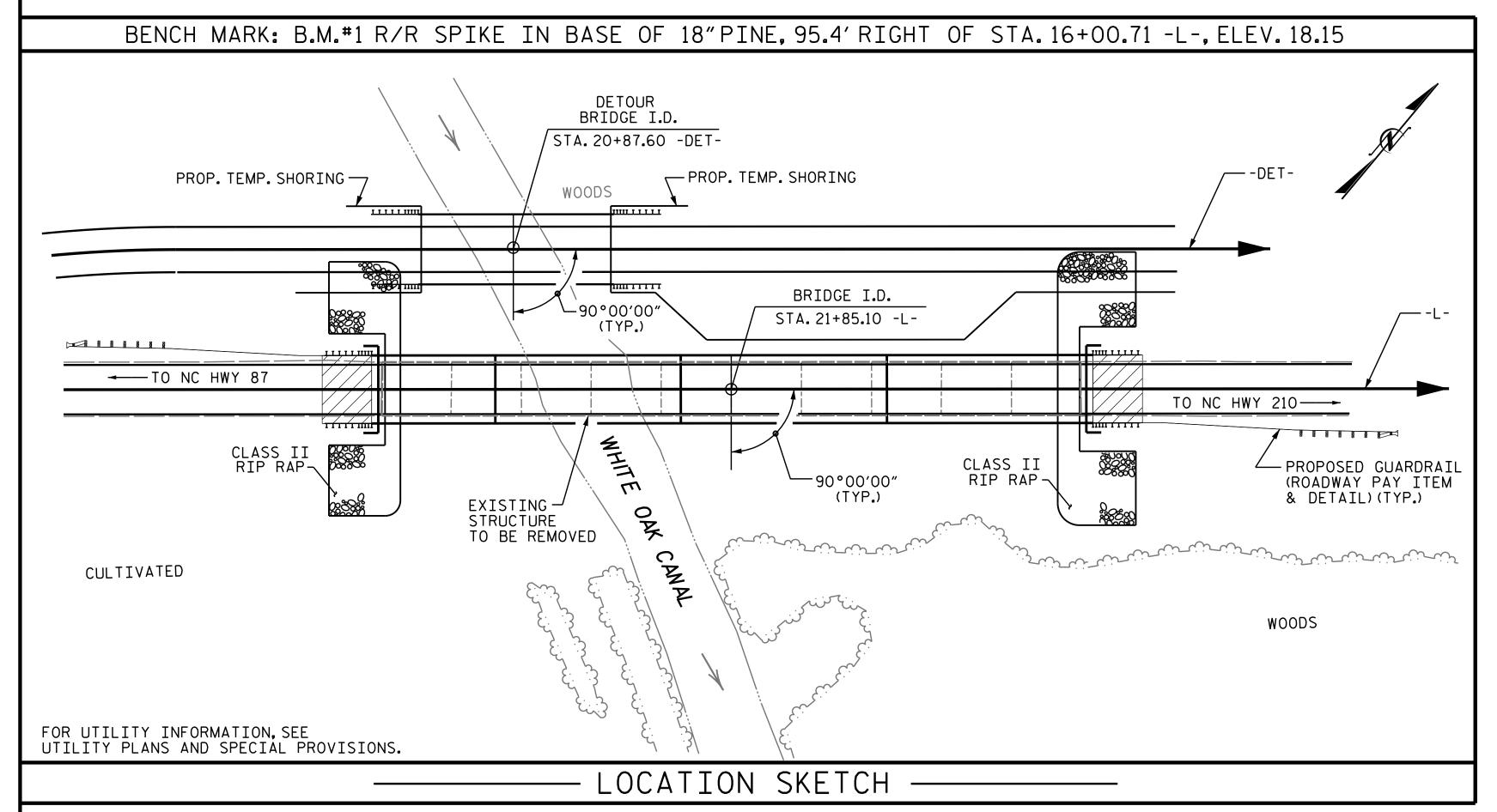
	TOTAL BILL OF MATERIAL																					
	I ALSIA.	CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY STRUCTURE AT STA. 20+87.60 -DET-	ASDESIUS	PDA TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	PRES COI GI	54" STRESSED NCRETE IRDERS	PILE DRIVING EQUIPMENT SETUP FOR 20"PRESTRESSED CONCRETE PILES	PILE DRIVING EQUIPMENT SETUP FOR HP 12 × 53 STEEL PILES	20" PRESTRES CONCRETE P	SSED HP 12 ILES STEEL	e × 53 PILES	PILE REDRIVES	CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-0"THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS
	LUMP SUM	LUMP SUM	LUMP SUM	EACH	LUMP SUM	SQ.FT.	SQ.FT.	CU. YDS.	LUMP SUM	LBS.	NO.	LIN.FT.	EACH	EACH	LIN.FT.	NO. LIN. F	T. NO.	EACH	LIN.FT.	TONS	SQ. YDS.	LUMP SUM
SUPERSTRUCTURE					LUMP SUM	12,297	10,929		LUMP SUM		16	1384.67							697.67			LUMP SUM
END BENT 1								26.9		4596				6		390	6	3		231	256	
BENT 1								13 <b>.</b> 5		2076			5		300	5		3				
BENT 2								17.5		2418			5		275	5		3				
BENT 3								17.5		2418			5		275	5		3				
END BENT 2								26.9		5008				7		420	7	4		292	324	
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	2	LUMP SUM	12,297	10,929	102.3	LUMP SUM	16,516	16	1384.67	15	13	850	15 810	13	16	697.67	523	580	LUMP SUM



## HYDRAULIC DATA

DESIGN DISCHARGE = 950 CFS

FREQUENCY OF DESIGN FLOOD = 50 YRS.

DESIGN HIGH WATER ELEVATION = 12.8 FT.

DRAINAGE AREA = 6.5 SQ. MI.

BASE DISCHARGE (Q100) = 1200 CFS
BASE HIGH WATER ELEVATION = 13.7 FT.

## OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE = 17000 CFS FREQUENCY OF OVERTOPPING FLOOD = 500+ YRS.

OVERTOPPING FLOOD ELEVATION = 20.2 FT.

## 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.

FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, 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.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

THE EXISTING STRUCTURE CONSISTING OF 10 SPANS @ 34.0 FT.

WITH A CLEAR ROADWAY WIDTH OF 26.0 FT. WITH RC FLOOR

AND RC DECK GIRDERS ON RC END BENT AND BENT ON PRECAST

RC PILES. AND LOCATED AT PROPOSED STRUCTURE SHALL BE

REMOVED. THE EXISTING BRIDGE IS PRESENTLY NOT 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.

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 PALNS.

THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT, MAINTAIN AND AFTERWARDS REMOVE A TEMPORARY STRUCTURE AT STA. 20+87.60 -DET- FOR USE DURING CONSTRUCTION OF THE PROPOSED STRUCTURE. FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY STRUCTURE, SEE SPECIAL PROVISIONS.

TEMPORARY FILL SHALL NOT BLOCK MORE THAN 50 PERCENT OF THE CHANNEL AT ANY TIME.

THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. 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 SO AS NOT TO ALLOW DEBRIS TO FALL 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 MATERIAL SHOWN IN THE CROSS HATCHED AREA ON SHEET 1 OF 3 SHALL BE EXCAVATED FOR A DISTANCE OF 40'LEFT AND 45'RIGHT OF CENTERLINE ROADWAY AT END BENT #1, AND 50'LEFT AND 45'RIGHT OF CENTERLINE ROADWAY AT END BENT #2, OR AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION.

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

THE DESIGN SCOUR ELEVATIONS ARE 5.5', 3.7', AND 5.5', FOR BENT 1 THROUGH 3.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

PROJECT NO. B-5694

BLADEN COUNTY

STATION: 21+85.10 -L-

SEAL 030024

SHEET 4 OF 4

DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE OVER WHITE OAK CANAL ON NC HWY 11 BETWEEN NC HWY 87 & NC HWY 210

REVISIONS SHEET NO

NO. BY: DATE: NO. BY: DATE: S-4

1 3 TOTAL SHEETS

2 4 7 37

FINAL UNLESS ALL SIGNATURES COMPLETED 2

aster abraha

DDA094AED5104FD 04/26/2022

DOCUMENT NOT CONSIDERED