BM. #1 - BENCH TIE SET IN 18" WALNUT TREE, 139.00' RT. OF -L- STA. 14+83.00 EL. 1130.12 L' 7. WOODS CLASS I RIP RAP WOODS (ROADWAY DETAIL AND PAY ITEM) (TYP.) -- PROPOSED GUARDRAIL (ROADWAY DETAIL AND PAY ITEM) (TYP.) **PROPOSED** STRUCTURE -EXISTING STRUCTURE ·-----BRIDGE ID STA. 15+23.00 130°-00′-00′ CLASS II — RIP RAP PCC STA. 15+56.81 -L-(TYP.) WOODS WOODS UNCLASSIFIED-BANK STABILIZATION STRUCTURE (ROADWAY DETAIL & EXCAVATION PAY ITEM) (TYP.) FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS. LOCATION SKETCH

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.

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 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 15+23.00 -L-."

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 18 FT LEFT AND 37 FT RIGHT OF CENTERLINE ROADWAY AT END BENT NO.1 AND A DISTANCE OF 22 FT LEFT AND RIGHT OF CENTERLINE ROADWAY AT END BENT NO.2 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.

THE EXISTING STRUCTURE CONSISTING OF A 41'-2" SINGLE SPAN WITH A CLEAR ROADWAY WIDTH OF 24'-1" AND TIMBER DECK WITH ASPHALT SUPPORTED BY STEEL GIRDERS ON TIMBER CAPS AND PILES LOCATED AT THE PROPOSED STRUCTURE SITE 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 SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL REMOVE THE BRIDGE AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

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

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

ASPHALT WEARING SURFACE IS INCLUDED IN ROADWAY QUANTITY ON ROADWAY PLANS.

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

FOR FIBER OPTIC CONDUIT SYSTEM, SEE SPECIAL PROVISIONS.

PROJECT NO. 178P.11.R.153 WILKES COUNTY STATION: 15+23.00 -L-

SHEET 3 of 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING

BRIDGE 419 ON SR 1148 OVER NAKED CREEK BETWEEN SR 1154 AND SR 1151

SHEET NO. REVISIONS NO. BY: S-3 NO. BY: DATE: DATE: NC License Number: C-3239 POCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HYDRAULIC DATA

DESIGN DISCHARGE FREQUENCY OF DESIGN DISCHARGE DESIGN HIGH WATER ELEVATION

DRAINAGE AREA BASE DISCHARGE (Q100) BASE HIGH WATER ELEVATION

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE = 8.640 C.F.S. FREQUENCY OF OVERTOPPING FLOOD = 500+ YRS. OVERTOPPING FLOOD ELEVATION = 1135**.**00 SAG LOCATION AT STA. 16+00.00 -L-, EDGE OF PAVEMENT RT.

= 3.2 SQ. MI. = 1,500 C.F.S. = 1130.70

= 1,100 C.F.S = 25 YRS.

ms consultants, inc. 5444 Wade Park Blvd. Suite 160 Raleigh, NC 27607

J.M. KEPICH DATE : 02/21 DRAWN BY : CHECKED BY : L.M. SAMPLES _ DATE : <u>05/2</u>1 _ DATE : <u>05/21</u>