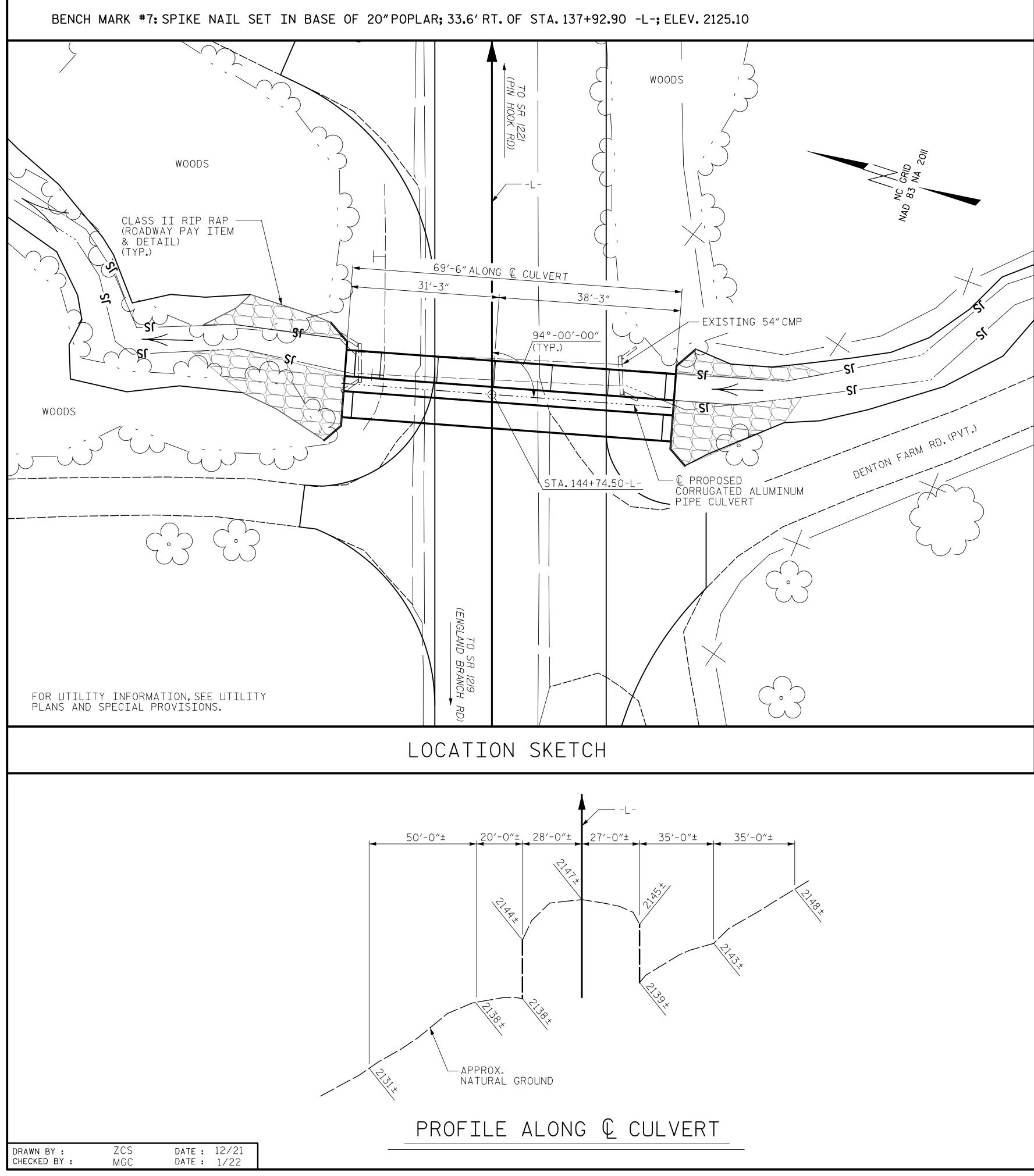
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NOTES:

ASSUMED LIVE LOAD - HL-93 OR ALTERNATE.

FOR OTHER DESIGN DATA AND NOTES, SEE STANDARD NOTES SHEET.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF THE CULVERT BEFORE CONSTRUCTION TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

FILL DEPTH 3'-O".

EXCAVATE AT LEAST 1 FOOT BELOW THE CULVERT AND REPLACE EXCAVATED MATERIAL WITH FOUNDATION CONDITIONING MATERIAL IN ACCORDANCE WITH ARTICLE 414-4 OF THE STANDARD SPECIFICATIONS.FOUNDATION CONDITIONING MATERIAL SHOULD CONSIST OF SELECT MATERIAL CLASS V OR VI FOR RCBC.

IF REQUIRED, UNDERCUT LOOSE SOILS THAT MAY BE ENCOUNTERED BENEATH THE BOTTOM OF THE FOUNDATION CONDITIONING MATERIAL.BACKFILL UNDERCUT AREAS WITH FOUNDATION CONDITIONING MATERIAL.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

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 SAMPLE BARS SHOULD COME FROM STEEL ACTUALLY USED IN THE PROJECT AND THE SAMPLE BARS SHOULD BE REPLACED BY SPICED BARS AS SPECIFIED IN THE SAMPLE BAR REPLACEMENT CHART. PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.

THE ENTIRE AREA OF THE ALUMINUM PIPES IN CONTACT WITH THE CONCRETE HEADWALL SHALL BE THOROUGHLY COATED WITH NEOPRENE SEALANT FOR CORROSION PROTECTION AT THE DIRECTION OF THE ENGINEER.

FOR CORRUGATED ALUMINUM PIPE CULVERT, SEE SPECIAL PROVISIONS.

	ROADWAY	DAIA	
1			_

GRADE POINT ELEV. @ STA. 144+74.50-L- = 2147.65' BED ELEV. @ STA. 144+74.50-L-\_\_\_\_ = 2138.3' ROADWAY SLOPES\_\_\_\_\_ = VARIES

HYDRAULIC DATA

DESIGN DISCHARGE\_\_\_\_\_ FREQUENCY OF DESIGN FLOOD DESIGN HIGH WATER ELEVATION\_\_ DRAINAGE AREA\_\_\_\_\_ BASE DISCHARGE (Q100)\_\_\_\_\_ BASE HIGH WATER ELEVATION\_\_\_\_\_

OVERTOPPING FLOOD DA

OVERTOPPING DISCHARGE\_\_\_\_\_ FREQUENCY OF OVERTOPPING FLOOP OVERTOPPING FLOOD ELEVATION\_\_\_\_



## F.A. PROJECT NO.: APD-0074(178)

# TOTAL STRUCTURE QUANTITIES

CORRUGATED ALUMINUM PIPE CULVERT LUMP SUM

CULVERT EXCAVATION

LUMP SUM

FOUNDATION CONDITIONING MATERIAL 89 TONS

	SAMPLE BAR Replacement		
SIZE	LENGTH		
#3	6'-2"		
#4	7'-4"		
#5	8'-6"		
#6	9′-8″		
#7	10'-10"		
#8	12'-0"		
#9	13'-2"		
#10	14'-6"		
#11	15'-10″		

NOTE: SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND f, = 60ksi.

VAN		
= 330 = 50 = 2146 = 0.39 = 410 = 2146	YRS 5.5' 9 SQ.MI. CFS	
ΔΤΑ = 410 0D = 100 = 2146	YRS	PROJECT NO. <u>A-0009CA</u> <u>GRAHAM</u> COUNTY STATION: <u>144+74.50</u> -L-
		SHEET 1 OF 4
Marshall &. Church, Jr. SEBECGESAADC413 SEAL 20125 MGINEE C. CHERT 6/1/2022		DEPARTMENT OF TRANSPORTATION RALEIGH CORRUGATED ALUMINUM PIPE CULVERT 94° SKEW
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		NAL TED REVISIONS SHEET NO.
804–C SHEL PH (	5 ENGINEERS N. LAFAYETTE 5 BY, NC 28150 704) 476–0003 ENSE NO.: C–0	1 3 TOTAL SHEETS
		STR. #5