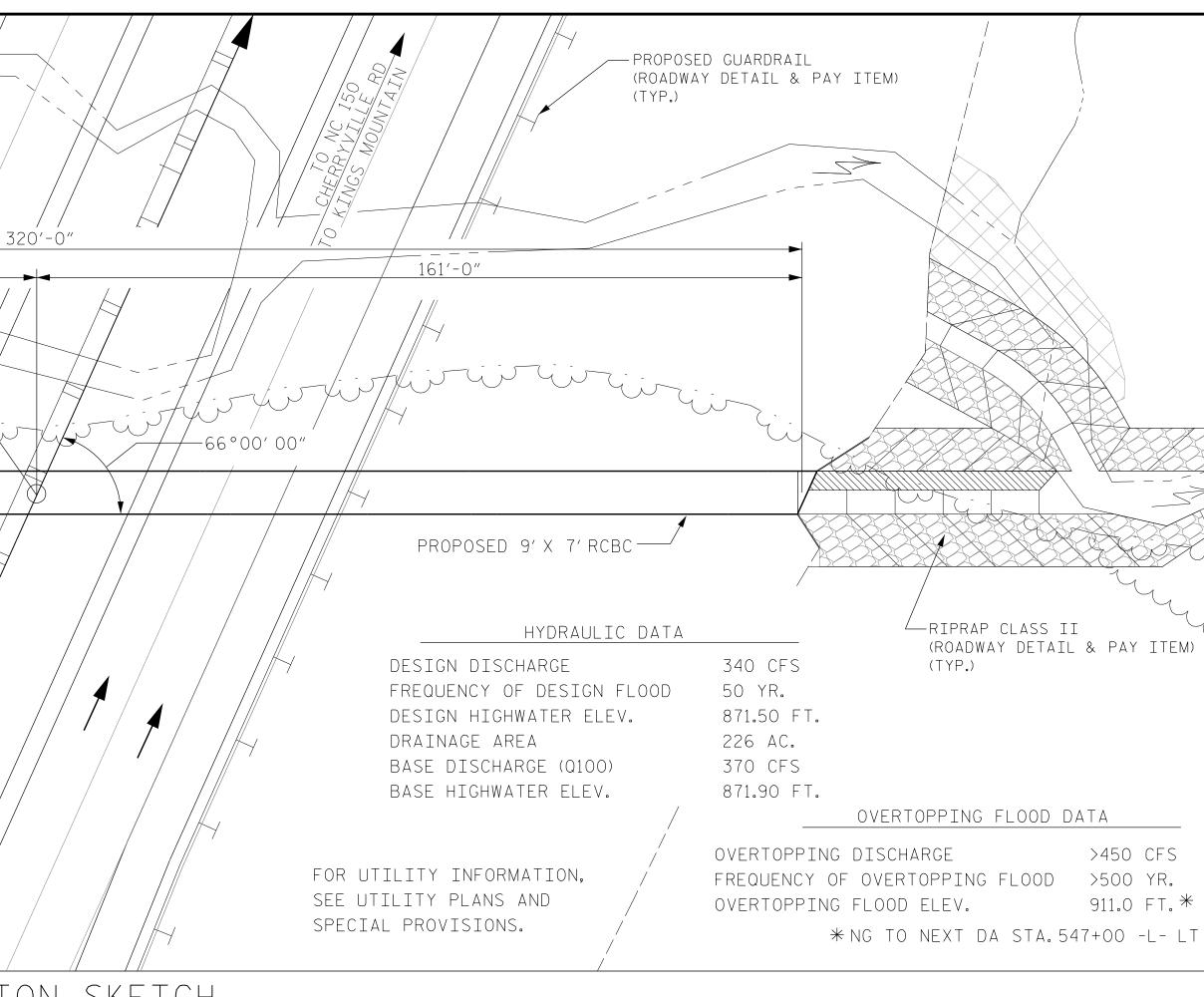
BM#25:8"NAIL IN BASE OF 24"POPLAR STA.554+39 -L- 67'RT, ELEV.870.32 € STA.553+27.00 -L-159'-0" TCKORY CREEKV ROADWAY DATA GRADE POINT ELEV. @ STATION 553+27.00 = 912.87 BED ELEV. @ STATION 553+27.00 -L- = 863.16 ROADWAY SLOPES 2:1 LOCATION SKETCH FOUNDATION NOTES: 1. THE REINFORCED CONCRETE BOX CULVERT SHALL BE PLACED ON THE STANDARD 1.0 FOOT BLANKET OF FOUNDATION CONDITIONING MATERIAL.SEE SECTION 414 OF STANDARD SPECIFICATIONS. 2. CONSTRUCT THE REINFORCED CONCRETE BOX CULVERT WITH 10 INCHES OF CAMBER TO ACCOUNT FOR ANTICIPATED SETTLEMENT. 86′-1″ 50'-0" H.ASSFOURA DATE : <u>||/|6</u> DRAWN BY: ___ CHECKED BY: D. RUGGLES DATE: 12/16 DESIGN ENGINEER OF RECORD: D.RUGGLES DATE : 12/16

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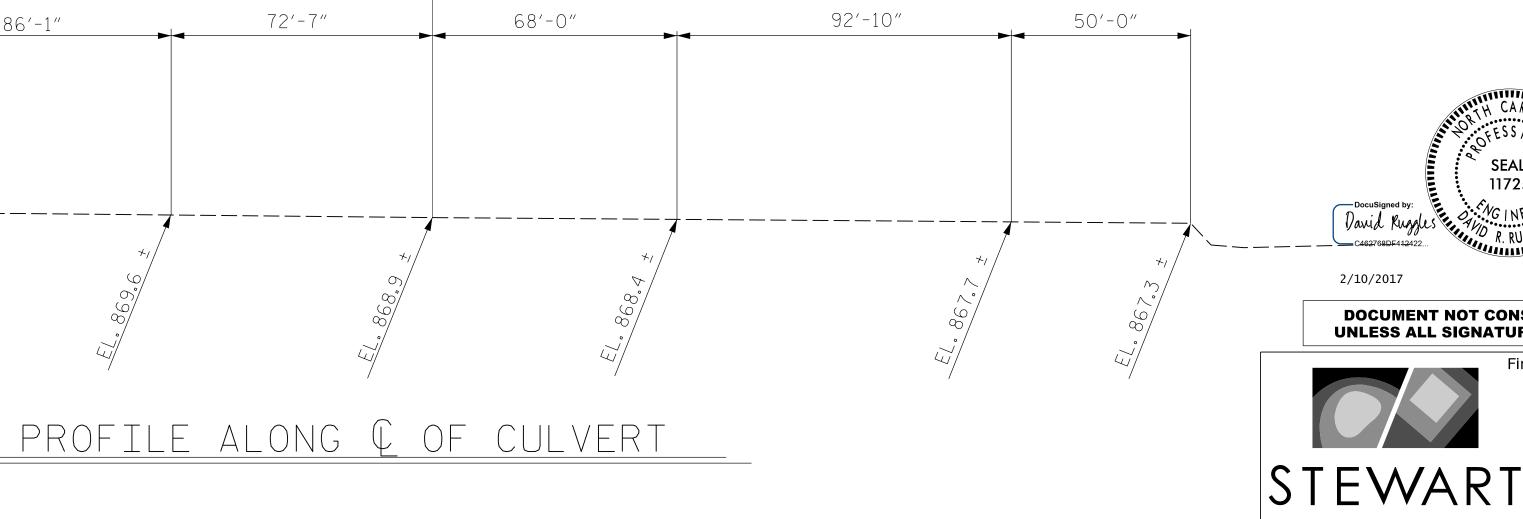
NOTES (CONTINUED):

16. FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS. 17. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVIONS.

18. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

19. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISONS.

TOTAL STRUCTURE QUANTITIES CLASS A CONCRETE BARREL @ 1.55 CY/FT 495.8 C.Y. 28.2 C.Y. WING ETC.___ 524.0 C.Y. TOTAL REINFORCING STEEL 86,107 LBS. BARREL WINGS ETC. 1,321 LBS. 87,428 LBS. TOTAL FOUNDATION COND.MAT'L. 335 TONS CULVERT EXCAVATION LUMP SUM 92′-10″ 50'-0"



NOTES:

- 1. ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.
- 2. DESIGN FILL IS 42.0 FEET.
- 3. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FEET.LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
- 4. THERE ARE 50 "C" BARS IN SECTION OF BARREL.
- 5. 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 ARE 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.
- FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.
- 7. A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.
- NATIVE MATERIAL PLACED BETWEEN SILLS/BAFFLES IN THE CULVERT SHALL PROVIDE A CONTINUOUS LOW FLOW CHANNEL. THE NATIVE MATERIAL SHALL BE MATERIAL THAT IS EXCAVATED FROM THE STREAM BED AT THE PROJECT SITE DURING CONSTRUCTION. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.
- 9. NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED.
- 10. FOR OTHER DESIGN DATA & NOTES SEE STANDARD NOTE SHEET.
- 11. 3" Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 12. CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS, CURTAIN WALLS AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS.

2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS

- 13. THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.
- 14. DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.
- 15. AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS.EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

	PROJECT NO. <u>R-2707C</u>
	CLEVELANDCOUNTY
TH CAROLINA	STATION: <u>553+27.00</u> -L-
SEAL	SHEET 1 OF 5
11725 NG / NE FR. R. RUGGLE	state of north carolina DEPARTMENT OF TRANSPORTATION raleigh
	SINGLE 9 FT.X 7 FT.
IOT CONSIDERED FINAL IGNATURES COMPLETED	CONCRETE BOX CULVERT
Firm License No. C-1051 421 Fayetteville St, Suite 400 Raleigh, NC 27601	66° SKEW

www.stewartinc.com							SHEET NO.
1	NO.	BY:	DATE:	NO.	BY:	DATE:	C13-01
	1			3			TOTAL SHEETS
	2			4			5