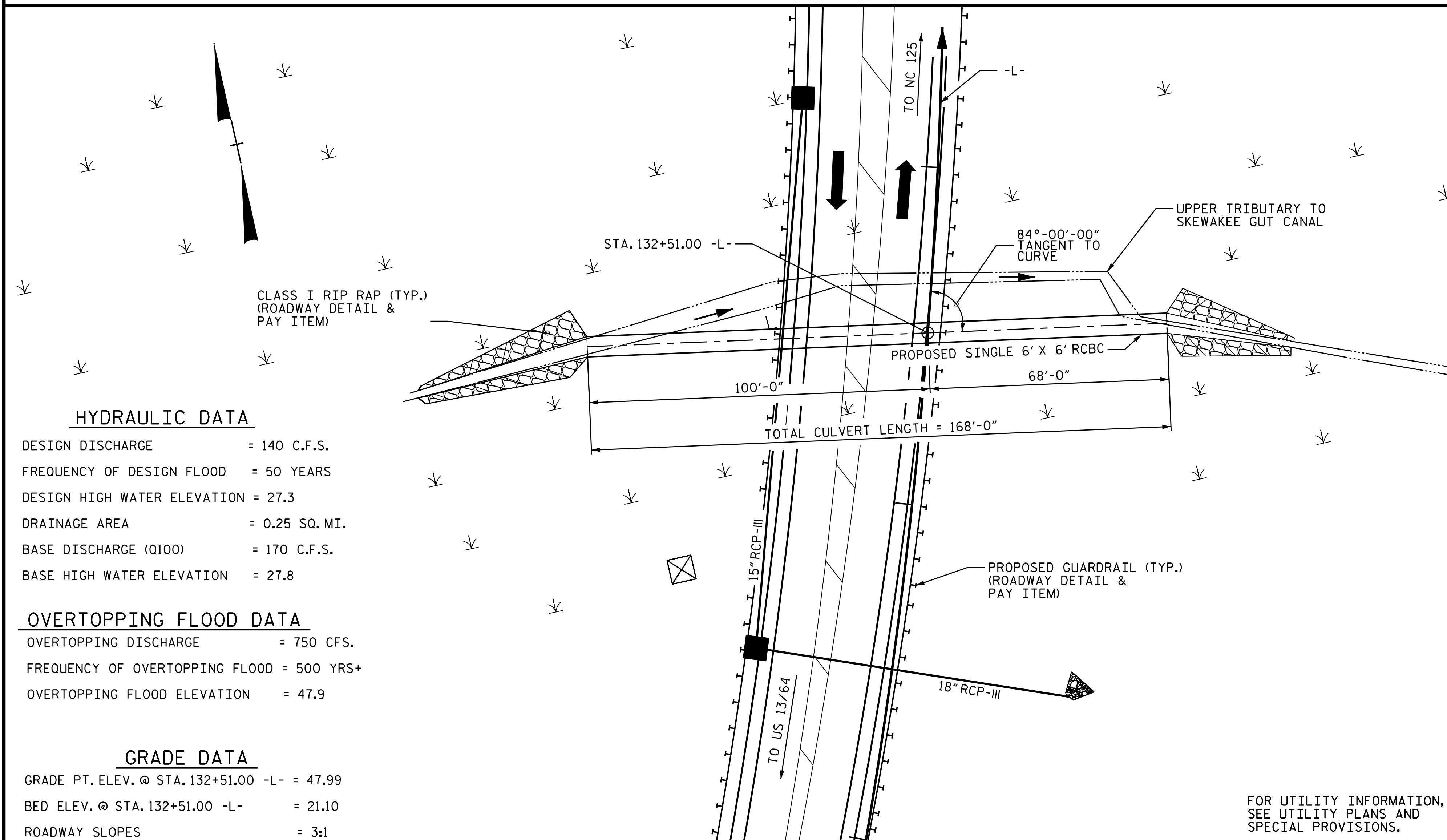


BM #13: RAILROAD SPIKE IN 18" OAK; STA. 131+72.60 -L-, 65.53' LT, ELEV. 34.33

F. A. PROJECT NO. STP-0125 (1)



HYDRAULIC DATA

DESIGN DISCHARGE = 140 C.F.S.
 FREQUENCY OF DESIGN FLOOD = 50 YEARS
 DESIGN HIGH WATER ELEVATION = 27.3
 DRAINAGE AREA = 0.25 SQ. MI.
 BASE DISCHARGE (Q100) = 170 C.F.S.
 BASE HIGH WATER ELEVATION = 27.8

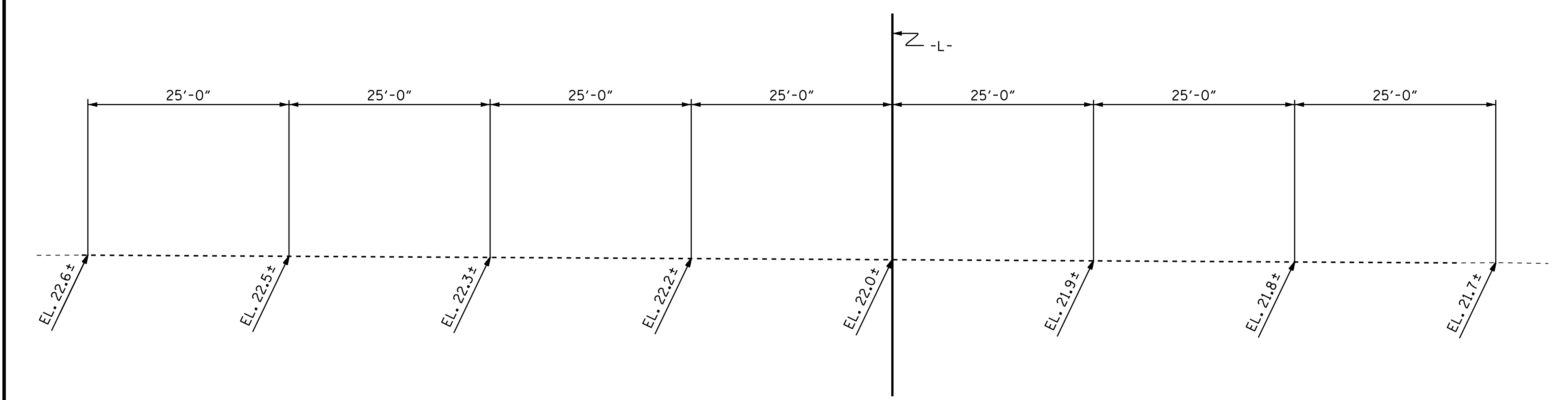
OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE = 750 CFS.
 FREQUENCY OF OVERTOPPING FLOOD = 500 YRS+
 OVERTOPPING FLOOD ELEVATION = 47.9

GRADE DATA

GRADE PT. ELEV. @ STA. 132+51.00 -L- = 47.99
 BED ELEV. @ STA. 132+51.00 -L- = 21.10
 ROADWAY SLOPES = 3:1

LOCATION SKETCH



TOTAL STRUCTURE QUANTITIES			
CLASS A CONCRETE			
BARREL @	0.697	CY/FT	117.1 C.Y.
WING ETC.			21.4 C.Y.
TOTAL			138.5 C.Y.
REINFORCING STEEL			
BARREL			14416 LBS.
WINGS ETC.			1188 LBS.
TOTAL			15604 LBS.
FOUNDATION COND. MAT'L.			134 TONS
CULVERT EXCAVATION			LUMP SUM

PROJECT NO. R-3826
MARTIN COUNTY
 STATION: 132+51.00 -L-



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 BARREL STANDARD
 SINGLE 6 FT. X 6 FT.
 CONCRETE BOX CULVERT
 84° SKEW

ASSEMBLED BY: P.N.HOLDER DATE: 6/19/14
 CHECKED BY: D.G.ELY DATE: 7/1/14
 DESIGN ENGINEER OF RECORD: A.K.PATEL DATE: 6/18/14
 DRAWN BY: R. WRIGHT DATE: AUG. 1989
 CHECKED BY: C.R.K. DATE: AUG. 1989

STANDARD

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-1
1			3			TOTAL SHEETS
2			4			5

REVISED 11-13-91 BY E.L.R. CHECKED BY G.R.P. ADDED 8-22-89