

COMPUTED BY: AMP DATE: 10.10.04  
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STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. **B-3922**  
 SHEET NO. **3-A**

**LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)**

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)								BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)								ENDWALLS		QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL LF FOR PAY QUANTITY SHALL BE COL. 'A' + (11.3 X COL. 'B')	FRAME, GRATES AND HOOD STANDARD 840.03	TYPE OF GRATE	PIPE CLEAN-OUT	CORR. STEEL ELBOWS NO. & SIZE	PIPE REMOVAL UNITS	REMARKS									
							12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"	R.C.P.	C.S.P.								E	F	G	A	B				
-L- 10+10	LT	1	2644.82																																					
-L- 10+10	LT	1	2	2642.32	2635.5																																			
-L- 11+20	RT	2	2644.92																																					
-L- 11+20	RT	2	4	2642.42	2641.0																																			
TEMPORARY DRAINAGE																																								
-DRIVE- 12+37.5	RT	5																																						
-DRIVE- 12+37.5	RT	5	6	2634.2	2634.0																																			
SHEET TOTAL:																																								
GRAND TOTAL:																																								

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL  
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT  
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL

**GUARDRAIL SUMMARY**

W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL  
 G = GATING IMPACT ATTENUATOR TYPE 350  
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE 350			REMARKS																
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	III SC	III	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC	AT-1	EA	G	NG																	
-L-	10+00.00	10+29.00	LT	6.25	31.25			10+29.00	5	8										1																					BRIDGE WARRANT, TYPE III (SC)		
-L-	10+20.75	10+29.00	RT	6.25	31.25			10+29.00	5	8										1																				BRIDGE WARRANT, TYPE III (SC)			
-L-	11+84.00	12+14.00	LT	6.25	31.25			11+84.00	5	8										1																				BRIDGE WARRANT, TYPE III (SC)			
-L-	11+84.00	11+95.00	RT	6.25	31.25			11+84.00	5	8										1																				BRIDGE WARRANT, TYPE III (SC)			
-YI-	20+72.00		CL																																								
SUB-TOTALS:				25.00	125.00															4																							
LESS ANCHOR DEDUCTIONS:																																											
AT-1				4 @ 6.25																																							
TYPE III SHOP CURVED				4 @ 18.75																																							
ANCHOR TOTAL DEDUCTION:				-25.00	-75.00																																						
GRAND TOTALS:				0.00	50.00																																						
SAY:				12.5 LF	62.5 LF			ADDITIONAL GUARDRAIL POSTS: 5													4																						