

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**LIST OF PIPES, ENDWALLS, ETC.
(FOR PIPES 54" & OVER)**

COMPUTED BY: J.B. DATE: 07/03
CHECKED BY: T.H. DATE: 07/03

STATION	LOCATION (LT, RT, OR CI)	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				STRUCTURAL PLATE PIPE						REINFORCED ENDWALLS		FRAME, GRATES AND HOOD STANDARD 840.03	SPECIAL REINFORCED ENDWALL (SEE SHEET 2-PP)	PIPE REMOVAL (LIN. FT.)	REMARKS			
							54"	60"	66"	72"	78"	84"	54"	60"	66"	72"	60"	66"	72"	78"	WITH R.C. - C.Y.	WITH C.S. - C.Y.	MASONRY DRAINAGE STRUCTURES CUBIC YARDS	C.B. STD. 840.01 OR STD. 840.02					TYPE OF GRATE		
SIZE	FROM TO								SHOP ELON-GATED								WITH R.C. - C.Y.	WITH C.S. - C.Y.		E	F	G									
THICKNESS OR GAUGE																															
-Y6- 20+50	CL	30		713.66	712.30													32.5								1					
-Y2- 12+05	CL	75		715.50	714.60		64											5.6												56	
-Y1-DET 17+90	LT	91		713.80	713.50									92																92	TEMP. - FOR TCP
-Y1-DET 17+84	LT	92		713.80	713.50									80																80	TEMP. - FOR TCP
TOTAL							64							172	216			5.6	43.0								1				228

GUARDRAIL SUMMARY

"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
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

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			DOUBLE FACED CONCRETE BARRIER	SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMARKS						
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE III	TYPE 350	CAT-1	AT-1	B-77	TYPE BP	TYPE III MOD.	NJ-25	EA	G					NG					
-L-	16+75.00	23+48.00	LT	650.00'	37.50'		17+50.00	23+48.00	4.00'	7.00'	50.00'		1.00'			1																		
-L-	17+00.00	28+38.52	MEDIAN																															
-L-	18+50.00	24+00.00	LT		87.50'		23+50.00		14.00'	17.00'			4.00'																					
-L-	25+29	28+39.57	LT	312.50'			25+50.00		6.00'	VAR.	291.25'		5.83'	1		1																		
-L-	28+37.52	-Y1- 25+50.00	RT	1,250.00'	137.50'		28+37.52 -L- 26+50.00 -Y1-		VAR.	VAR.	400.00' -L- 50.00' -Y1-		8.00' -L- 1.00' -Y1-	1	1																			
-L-	29+96.55	39+08.77	LT	912.50'			29+96.55	39+08.77	12.00'	15.00'	300.00'	308.68'	6.00'	6.00'	1							1												
-L-	29+98.48	38+91.23	MEDIAN	275.00'			38+91.23	38+91.23														1												
-L-	30+00.22	38+74.30	RT	875.00'			38+74.30	30+00.22	12.00'	15.00'	274.00'	300.00'	6.00'	6.00'	1							1												
-Y6-	12+26.73	23+50.00	RT	1,125.00'			12+26.73	23+50.00	10.00'	13.00'		292.00'		5.00'																				
-Y6-	12+61.70	17+50.00	LT	487.50'			16+00.00	12+61.70	10.00'	13.00'		257.03'		5.00'								1												
-Y1-	15+70.00	-Y2- 14+42 LT.	LT	487.50'	62.50'		13+75.00	16+50.00	8.00'	11.00'	50.00'	50.00'	1.00'	1.00'								2												
DRIVE #1	10+50.00	-Y2- 12+65 RT.	RT	112.50'	50.00'		12+05.00	12+05.00	8.00'	11.00'		50.00'	4.00'	1.00'																				
SUB-TOTAL				6,487.50'	375.00'										4	6	2	2	1	3	3	2	1			1,799.00'	650.00'	3,703.50'						
MINUS 1 IMPACT ATTENUATOR TYPE 350 @ 25.00' EA.				-25.00'																														
MINUS 2 AT-1 @ 6.25' EA.					-12.50'																													
MINUS 2 CAT-1 @ 6.25' EA.					-12.50'																													
MINUS 4 TYPE III @ 18.75' EA.					-75.00'																													
MINUS 6 TYPE 350 @ 50.00' EA.					-300.00'																													
MINUS 3 TYPE BP @ 18.75' EA.					-56.25'																													
MINUS 1 TYPE B-77 @ 18.75' EA.					-18.75'																													
MINUS 3 TYPE III MOD. @ 18.75' EA.					-56.25'																													
MINUS 2 TYPE NJ-25 @ 25.00' EA.					-50.00'																													
TOTAL				5,893.75'	362.50'										4	6	2	2	1	3	3	2	1			1,799.00'	650.00'	3,703.50'						
SAY				5,925.00'	375.00'																													

ADDITIONAL GUARDRAIL POST = 5 EA.