COMPUTED BY: RCB DATE: 9-29-2004
CHECKED BY: SCL DATE: 11-21-2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
B-3266	3-A

"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.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350
* = SEE REMARKS

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVED	LENGTH DOUBLE FACED	WARRANT POINT APPROACH END	WARRANT POINT TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH APPROACH END	FLARE LENGTH TRAILING END	W APPROACH END	W TRAILING END	ANCHORS TYPE 350	ANCHORS	ANCHORS TYPE III	ANCHORS	IMPACT ATTENUATOR TYPE 350 EA	IMPACT ATTENUATOR TYPE 350 G	IMPACT ATTENUATOR TYPE 350 NG		REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	11+93.164	12+17.929	LT	24.765			BRIDGE		1.0	2.5		15.240		0.300	1		1							
-L-	11+72.139	12+12.144	RT	40.005				BRIDGE	1.8 min.	2.8 min.	15.240		0.300		1		1							
-L-	12+83.009	13+34.444	LT	51.435				BRIDGE	1.0	2.5	45.720		0.900		1		1							
-L-	12+77.235	13+21.050	RT	43.815			BRIDGE		1.8 min.	2.8 min.		15.240		0.300	1		1							
			SUBTOTAL	160.020																				
DEDUCTIONS FOR ANCHOR UNITS																								
		4 TYPE 350 @ 15.240		-60.960																				
		4 TYPE III @ 5.715		-22.860																				
			TOTAL	76.200											4		4							
			SAY	80.010																				
ADDITIONAL GUARDRAIL POSTS = 5 EA																								

DRAINAGE SUMMARY

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200 mm & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION FROM	INVERT ELEVATION TO	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 300	375	450	600	750	900	1050	1200	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 1.63	400 1.63	450 1.63	600 1.63	800 2.01	900 2.01	1000 2.77	1200 2.77	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	ENDWALLS CU. METERS C.S.P.	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	FOR DRAINAGE "TOTAL W" FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") METERS A 1.50 THRU 3.00	METERS B 3.00 AND ABOVE	C.B. STD. 840.01 OR 840.02	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G	TRAFFIC BEARING DROP INLET STD. 840.35	M.D.I. (N.S) FRAME WITH TWO GRATES STD. 840.29	PIPE REMOVAL	REMARKS
-L- 10+79.000	℄	1			394.70	394.10				19.2																																						REMOVE EXISTING 375 CMP
-L- 11+15.000	℄	2																																												6.6	REMOVE EXISTING 375 CMP
-L- 11+62.000	℄	3			390.22	388.79						26.4																																			REMOVE EXISTING 150MM PVC RISER
-L- 11+74.000	RT.	3A																																												12.2	REMOVE EXISTING 375 CMP
-L- 12+00.000	RT.	4		390.38	389.80																									1							1	1								
-L- 12+00.000	RT.	4	5		389.80	389.60			2.4																																					
-L- 13+04.000	℄	6																																											12.3	REMOVE EXISTING 300 CMP
-L- 13+26.000	RT.	7																								10.8																			6.3	REMOVE EXISTING 375 CMP
-L- 13+60.000	℄	8			388.25	388.10						24.0																																		
-L- 14+25.000	℄	9			388.00	387.21					19.2																																			REMOVE EXISTING 375 CMP
-L- 14+32.000	RT.	10																																												12.4	REMOVE EXISTING 375 CMP
TOTAL									2.4	19.2	19.2	50.4														10.8				1							1	1								49.8	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
M.D.I. (N.S.)	MEDIAN DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	
T.B.J.B.	TRAFFIC BEARING JUCTION BOX

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