COMPUTED BY:	HWB	DATE:	10-02-03
CHECKED BY:	SHB	DATE:	1-06-04

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

GUARDRAIL SUMMARY

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2539C	3-X

RAL-R40

"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 BEGIN

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		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC	TERM. END UNIT	G	NG				
-L-	195+46.500	201+67.530	RT	621.03			195+84.000	201+67.530	3	3.9	15.24	-	0.3				1			1									
-L-	196+44.000	201+62.160	LT	518.16			196+44.000	201+24.660	3	3.9	15.24	-	0.3				1			1									
-L-	205+65.150	206+07.060	RT	41.91			206+02.650	206+07.060	0.75	3	15.24	-	0.3				1			1									
-L-	205+95.500	206+60.270	LT	64.77			206+22.770	205+95.500	0.75	3	15.24	-	0.3				1			1									
	236+90.537	236+95.745	LT	5.208			236+93.000	236+93.000	-	-	-		-										2						
TOTAL				1251.078		60.96	4	GRAU 350 @ 15.24									4			4			2						
						7.62	4	CAT-1 @ 1.905																					
						1.398	2	TERMINAL END UNIT @ 0.699																					
				-69.978		69.978																							
GRAND TOTAL				1181.1																									
SAY				1184.910																									
				ADDITIONAL GUARDRAIL POSTS = 5 EA.																									

SUMMARY OF EXISTING PAVEMENT REMOVAL

LINE	Station	Station	LOC	ASPHALT REMOVAL (M^2)	CONCRETE REMOVAL (M^2)
L	203+52	203+70	LT	44	
L	204+14	204+76	LT	79	
L	236+88	236+98	LT	171	
PER GEOTECHNICAL REPORT RECOMMENDATIONS				392	112
GEOTECHNICAL RECOMMENDATIONS			TOTAL:	686	112
FROM: MR: N.W. WAINAINA, P.E.					
STATE GEOTECHNICAL ENGINEER			SAY:	690	120
DATE: JANUARY 12, 2004					

SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT

LINE	Station	Station	LOC	ASPHAL
Y2	12+00	12+68		563
L	203+52	203+70	LT	110
L	204+14	204+76	LT	138
Y9	10+42	10+92		249
			TOTAL:	1060
			SAY:	1060