COMPUTED BY: MJ DuVAL DATE: 04/09/04
CHECKED BY: AC WEST DATE: 7-20-04

"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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-0513BA	3-H

GUARDRAIL SUMMARY

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	GRAU 350	CAT-1	TYPE III	AT-1	M-350	VI MOD	XI	VI	BIC	EA	G	NG				
-RPB-	13+96.07	14+49.60	LT	52.08			14+14.11	14+00.00	4.2	5.2	15.24		0.3		1	1														
-LPB-/-Y1-	12+50.57(-LPB-)	14+45.41(-Y1-)	RT	46.65	15.73			14+45	2.4	3.4						1		1												
-Y1-	14+34.20	15+31.37	LT	96.685			14+41.76		2.4	3.4	15.24		0.3		1	1														
-LPC-/-L-	10+77.29(-LPC-)	113+53.17(-L-)BRI	RT	70.54			BRIDGE		1.8		15.24		0.3		1		1													
-L-	112+79.59	113+44.85(BRIDGE	MED	65.26			BRIDGE		1.8		49.53		3.2				1		1											
-L-	112+78.72	113+13.57(BRIDGE	LT	34.85				112+81	1.8							1	1													
-L-	114+33.41(BRID)	116+30.77	RT	197.36			BRIDGE	116+28.86	1.8	5.2		36.06		3.4		1	1													
-L-	114+02.13(BRID)	114+64.93	MED	62.80				BRIDGE	1.8		49.53						1		1											
-L-	113+93.84(BRID)	118+67.07	LT	473.23			118+21.35	BRIDGE	4.2	5.2	15.24		0.3		1		1													
-SR2-	10+87.87	14+42.20	RT	339.85			11+33.59	13+96.48	0.9		15.24	15.24	0.3	0.3	2															
-SR2-	15+41.20	16+25.02	RT	81.11			15+92	16+03	2.4	3.4	15.24	15.24	0.3	0.3	2															
-SR1-	19+81.36	20+84.23	LT	101.85			20+22.38	20+11.41	2.4	3.4	15.24	15.24	0.3	0.3	2															
-L-	132+13.36	138+10.49(BRID)	RT	597.13			132+60	BRIDGE	3.6	5.2	60.00		0.6		1		1													
-L-	137+41.08	138+05.79(BRID)	MED	64.71			BRIDGE		1.8		49.53		3.2				1		1											
-L-	132+77.00	137+94.59(BRID)	LT	517.59			BRIDGE	133+22.72	3.6	5.2		18.00	0.6			1	1													
-L-	138+68.22(BRID)	144+10.58	RT	542.36			BRIDGE	144+10.58	3.6	5.2		18.00	0.6			1	1													
-L-	138+57.01(BRID)	139+20	MED	62.99				BRIDGE	1.8	5.8	45.72						1		1											
-L-	138+52.31(BRID)	144+96.30	LT	643.98			144+95.85	BRIDGE	3.6	5.2	60.00		0.6		1		1													
-SR1-	12+25.72	13+05.73	RT	76.63			12+70.13	12+81.23	1.2	2.2	15.24	15.24	0.3	0.3	2															
-SR1-	12+66.29	13+46.30	LT	76.25			12+96.76	12+91.30	1.2	2.2	15.24	15.24	0.3	0.3	2															
SUBTOTALS:				4203.905	15.73										16	7	12	1	4											
	ANCHOR DEDUCTIONS:																													
	TYPE GRAU 350	16 @ 15.24m = 243.84																												
	TYPE CAT-1	7 @ 1.91m = 13.37																												
	TYPE III	12 @ 5.72 m = 68.64																												
	TYPE AT-1	1 @ 1.91 m = 1.91																												
	TYPE M350	4 @ 11.43 m = 45.72																												
	ANCHOR TOTALS:	373.44																												
SHEET TOTAL:				3830.465	15.73										16	7	12	1	4											
SAY:				4000.50	15.73																									
ADDITIONAL POSTS:					10																									

10/26/98
20-SEP-2004 13:48
mduval AT R0513ba
R:\Roadway\R-0513ba_sum