

COMPUTED BY: DNL DATE: 7-28-04
 CHECKED BY: DATE:

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

WBS ELEMENT		SHEET 16 OF 31
36765	3CR.20651J5	3CRJ071J5
36764	3CR.306532J5	39251
3CR.20651.4	3CR.306508J5	39254
3CR.20651J1	36796	39256
38225	3CRJ067I.5	
	3CRJ067I.5	

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

GUARDRAIL SUMMARY

WBS ELEMENT ROUTE MAP NO.	BEG. MP	END MP	LOCATION	LENGTH			WARRANT POINT		*N* DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMARKS								
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE 350	M-850	CAT-1	VI	VI MOD	XI	XI MOD	XII	AT-1	EA	G				NG							
30254	0.09	0.095	LT	75	35		0.10	0.10	8	9	50	50			1																					
NC 133	0.09	0.11	RT	150			0.10	0.10	8	9	50	50			2																					
MAP 44	3.40	3.42	LT	150			3.41	3.41	8	9	50	50			2																					
	3.40	3.42	RT	150			3.41	3.41	8	9	50	50			2																					
	TOTAL			525	35										7																					
LESS DEDUCTIONS:				356.25																		DEDUCTIONS 7 TYPE 350 @ 50' = 350'														
SUBTOTAL:				168.25																		DEDUCT. 1 TYPE AT-1 @ 8.25' = 8.25'														
SAY:				175																		DEDUCTIONS TOTAL = 356.25'														
ADDITIONAL GUARD RAIL POST				5																																
3CR.10711.1d	1.68	1.70	LT	150			1.69	1.69	8	9	50	50			2																					
NC 210	1.68	1.70	RT	150			1.69	1.69	8	9	50	50			2																					
MAP 42	7.37	7.39	LT	150			7.38	7.38	8	9	50	50			2																					
	7.37	7.39	RT	150			7.38	7.38	8	9	50	50			2																					
	TOTAL			600											8																					
LESS DEDUCTIONS:				400																		DEDUCTIONS 8 TYPE 350 @ 50' = 400'														
SUBTOTAL:				200																		DEDUCTIONS TOTAL = 400'														
ADDITIONAL GUARD RAIL POST				5																																