PROJECT NO. SHEET NO. B-5383 3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

"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

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

IN FEET (UNLESS OTHERWISE NOTED)

SURVEY	BEG. STA.	END STA.	LOCATION		LENGTH		WARRANT POINT		"N" DIST.	TOTAL SHOUL			w		` '					IMPA ATTENU TYPE:	ATOR FACED	REMOVE EXISTING	REMOVE & STOCKPILE	REMARKS		
LINE				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	ΧI	GRAU 350 M-	·350 T\	YPE III CAT-1 MOD	BIC	TYPE T101	G	NG CONCRETE BARRIER	GUARDRAIL	EXISTING GUARDRAIL	
-L-	11+49.81	12+24.81	LT	75			12+24.81		2.375	7		50		1			1				1					
-L-	13+17.19	14+29.69	LT	112.50				13+17.19	2.375	7	87.50		1.75				1				1					
-L-	11+12.31	12+24.81	RT	112.50			12+24.81		2.375	7	87.50		1.75				1				1					
-L-	13+17.19	13+92.19	RT	75				13+17.19	2.375	7		50		1			1				1					
			SUB-TOTALS	375																						
		Deductions	For Anchor Units	-300											TOTALS		4				4					
			TOTAL	75.00														Do	aduations for Cuardrail An	ch or Units						
			TOTAL	75.00															eductions for Guardrail An							
		T																	4 - Type 350 (TL-3) @ 50							
			SAY	75.00															4 - Type T101 @ 25	= 100						
														·					TOTAL	300						

5 EACH ADDITIONAL GUARDRAIL POSTS

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.

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

TEMPORARY GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

IN FEET (UNLESS OTHERWISE NOTED)

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH		WARRANT POINT		"N" DIST.	TOTAL SHOUL	oul	w		ANCHORS (EACH)						IMPACT ATTENUATOR TYPE 350		SINGLE FACED	REMOVE EXISTING	REMOVE & STOCKPILE	REMARKS			
LINE				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	FROM WIDTH	APPROAC END	PROACH TRAILING APPROACH END END END	TRAILING END	XI MOD	ΧI	GRAU 350	M-350 TYPE	III CAT-1	VI MOD	BIC	G	NG	CONCRETE BARRIER	GUARDRAIL	EXISTING GUARDRAIL		
-DET-	12+05.68	12+55.68	LT	50.00				12+55.68		3							1	1									
-DET-	12+07.28	12+57.28	RT	50.00			12+57.28			3	25		0.5				1	1									
-DET-	13+10.67	13+60.67	RT	50.00				13+10.67		3		25		0.5			1	1									
-DET-	13+12.27	13+62.27	LT	50.00			13+12.27			3							1	1									
			SUB-TOTALS	200.00																							
		Deductions	s For Anchor Units	-175											TOTALS		4	4									
			TOTAL	25.00														Deduct	ions for Gua	rdrail Anch	nor Units						
																		4 -	Type 350 (TL	-2) @ 25' =	100						
			SAY	25.00															4 - Type III	@ 18.75' =	75						
																·			TOTAL		175						

	PAVEMIENT REMOVAL SUMMARY											
			IN SQUA	RE YARDS								
SURVEY	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP					
-L-	11+53.24	12+39.82	CL	157								
-L-	13+03.47	13+66.98	CL	128								
Detour Removal												
-DET-	11+33.91	12+46.91	CL	223								
-DET-	13+02.03	13+93.52	CL	103								
		TOTAL:		611								
		SAY:		670								

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing and Removal of Asphalt Pavement will be paid for at the contract lump sum price for 'grading'.

Note: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-DET- 10+40.00	12+56.41	137	124		13
SUBTOTALS:		137	124		13
-DET- 13+11.54	15+00.00	29	97	68	
SUBTOTALS:		29	97	68	
-L- 10+12.26	12+24.81	13	152	139	
SUBTOTALS:		13	152	139	
-L- 13+17.19	15+50.00	39	187	148	
SUBTOTALS:		39	187	148	
-DET- 11+34.00 REMV	12+55.00	21			21
SUBTOTALS:		21			21
-DET- 13+10.00 REMV	14+00.00	111			111
SUBTOTALS:		111			111
SUMMARY TO	ALS:	350	560	355	145
LOSS DUE TO CLEA	R & GRUB	-50		50	
WASTE IN LIEU OF	BORROW			-13	-13
PROJECT TOT	ALS:	300		392	132
EST 5% TO REPL TOPSOIL	ON BORROW PIT			20	
GRAND TOTA	ALS:	300		412	
SAY:		315		435	