

COMPUTED BY: JBG DATE: 1-30-03
 CHECKED BY: DWG DATE: 2-11-04

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. B-3349
 SHEET NO. 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

GUARDRAIL SUMMARY
 IN FEET

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 GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS		
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	TYPE III	GRAU 350	TEMP TYPE B-77	TEMP GRAU 350	EA	G	NG								
-L-	14+98.94	11+98.94	LT	300			14+98.94	11+98.94	8	11																	
-L-	16+39.06	19+39.06	LT	300			19+39.06	16+39.06	8	11	60.4167		1.2083														
-L-	11+98.94	14+98.94	RT	300			11+98.94	14+98.94	8	11	60.4167		1.2083														
-L-	16+39.06	17+76.56	RT	137.50			16+39.06	16+39.06	8	11		31.213		1.2083													
SUBTOTALS				1037.5											4	4											
DEDUCTION FOR ANCHORS 4 GRAU-350 @ 50'				-200																							
4 TYPE III @ 18.75'				-75																							
PROJECT TOTAL				762.5											4	4											
SAY				800																							
ADDITIONAL GUARDRAIL POSTS = 10 EA.																											
TEMPORARY GUARDRAIL																											
-DET-	10+72.79	11+47.79	RT	75			11+47.79																				
-DET-	12+87.91	13+75.41	RT	87.5			12+87.91																				
SUBTOTALS				162.5																							
DEDUCTION FOR ANCHORS 2 GRAU-350 @ 50'				-100																							
2 TYPE B-77 @ 18.75'				-37.5																							
PROJECT TOTAL				25																							
SAY				50																							

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

LOCATION	UNCL. EXCAVATION	EARTH EMBT + %	BORROW	WASTE
PHASE NO. I (-L- & -DET- LT. SIDE)				
-L- STA. 11+50 TO STA. 14+98.94 (BB)	262	309	198	151
-L- STA. 16+39.06 (EB) TO STA. 20+00	26	294	271	3
PHASE NO. I TOTALS	288	603	469	154
PHASE NO. II (-L- LINE RT. SIDE)				
-L- STA. 11+50 TO STA. 14+98.94 (BB)	139	222	128	45
-L- STA. 16+39.06 (EB) TO STA. 20+00	50	147	121	4
PHASE NO. II TOTALS	189	369	249	49
PHASE TOTALS	477	972	718	203
5% FOR REPLACING TOPSOIL ON BORROW PIT			36	
GRAND TOTAL	477	972	754	203
SAY:	500		775	
ESTIMATED UNDERCUT = 300 CY				

SUMMARY OF ASPHALT PAVEMENT REMOVAL
 IN SQUARE YARDS

LINE	STATION TO STATION	LOCATION	LENGTH	WIDTH	SQUARE YARDS
-L-	14+74.94 TO 15+32.00	LT & RT	57.06	22	139.48
-L-	16+32.00 TO 16+63.06	LT & RT	31.06	22	75.92
TOTAL					215.40
SAY					230.00

NOTE: QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL RE-CROSS-SECTION THE WORK ACCURATELY WHEN THE PROJECT IS STAKED OUT. THESE CROSS-SECTION NOTES WILL BE USED IN COMPUTING THE FINAL QUANTITIES FOR WHICH THE CONTRACTOR WILL BE PAID.

5/28/99

08-MAR-2005 12:06
 DWG Gardner AT RD212399