

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. ±%	BORROW	WASTE
-L- 13+50	20+10	6	711	705	
	SUBTOTAL	6	711	705	
	SUBTOTAL	6	711	705	
TOTAL		6	711	705	
LOSS DUE TO CLEARING & GRUBBING		-2		2	
PROJECT TOTAL		4	711	707	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				35	
GRAND TOTALS:		4		742	
SAY:		50		800	

EST. DRAINAGE DITCH EXCAVATION = 315 CY
 EST. UNDERCUT EXCAVATION = 100 CY
 EST. SELECT GRANULAR MATERIAL, CL III = 100 CY
 EST. GEOTEXTILE FOR SOIL STABILIZATION = 100 SY
 EST. SHALLOW UNDERCUT = 50 CY
 EST. CL IV SUBGRADE STABILIZATION = 80 TONS

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.

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.

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
L	14+50	17+15	CL/RT	404
L	17+45	19+00	CL/RT	95
TOTAL:				499
SAY:				500

GUARDRAIL SUMMARY

"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

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 AND STOCKPILE EXISTING GUARDRAIL	REMARKS							
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	XI MOD	XI	GREU TL-2	M-350	TYPE III	CAT-1	VI MOD	BIC	TERM SECT	EA	G	NG												
L	16+50.00	18+00.00	LT	150.00			17+40	17+06	4	7	25	25	0.5	0.5																						
L	16+50.00	17+87.50	RT	137.50			17+06	17+40	4	7	25	25	0.5	0.5																						
			SUBTOTAL	287.50																																
			LESS ANCHOR DEDUCTIONS																																	
			GREU, TL-2 4 @ 25'	-100.00																																
			TOTAL	187.50																																
			SAY	200'																																
							ADDITIONAL GUARDRAIL POSTS 5 EACH																													