COMPUTED BY: KTB	DATE: 7–28–14
CHECKED BY: DWG	DATE: 11–6–14

PROJECT REFERENCE NO.	SHEET NO.
B–5127	3B–1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. +%	BORROW	WASTE
–L– 12+00.00	–L– 16+80.00	212	200	1290	1078	200
TOTALS:		212	200	1290	1078	200
ADDITIONAL UNDERCUT			200			200
PROJECT TOTALS:		212	400	1290	1078	400
EST.5% TO REPLACE TOPSOIL ON BORROW PIT					54	
GRAND TOTALS:		212	400	1290	1132	400
SAY:		250	400		1170	
SELECT GRANULAR MATERIAL,CLASS III = 400 CY						

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

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.

"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

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	APPROACH END	TRAILING END	GRAU 350								EA	G	NG				
–L–	12+45.00	16+45.00	LT	400′			13+50.00	14+45.00	6′	9′	50′	50′	1′	1′	2														See Structure Plans for Anchoring Posts to Culvert
–L–	12+45.00	15+45.00	RT	300′			13+50.00	14+50.00	6′	9′	50′	50′	1′	1′	2														See Structure Plans for Anchoring Posts to Culvert
			SUBTOTAL	700′											4														
	LESS DEDUCTION FOR ANCHORS																												
		GRAU–350 4 @ 50′ =		–200′																									
			TOTAL	500′											4														
			SAY	525′																									
ADDITIONAL GUARDRAIL POSTS = 10 EACH																													

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
–L–	12+25.00	13+55.00	–CL–	338.77
–L–	14+42.00	16+00.00	–CL–	419.46
			TOTAL:	758.22
			SAY:	800

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH (FEET)
–L–	15+73.00	16+00.00	27′
		TOTAL:	27′
		SAY:	30′

5/28/99

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