COMPUTED BY:
 MJJ
 DATE:
 03/18/2015

 CHECKED BY:
 SKR
 DATE:
 08/04/2015

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO. B-5331 3B-1

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L-					
12 + 55.00 TO 14 + 73.75 (BEGIN BRIDGE)	128		414	286	
15+66.25 (END BRIDGE) TO 17+15.00	130		355	225	
SUB-TOTAL	258		769	511	
PROJECT TOTAL	258		769	511	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				26	
GRAND TOTAL	258		769	537	
SAY	300			600	

EST. UNDERCUT EXCAVATION = 700 CY

EST. SHALLOW UNDERCUT = 500 CY

EST. SELECT GRANULAR MATERIAL = 700 CY

EST. DRAINAGE DITCH EXCAVATION = 40 CY

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.

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

"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

110 111	10 - NON-DATING IMPACT ATTENDATOR THE 550																									
SURVEY	SURVEY		LOCATION	LENGTH			WARRANT POINT		"N" DIST.	TOTAL	FLARE LENGTH		W		ANCHORS						IMPACT ATTENUATOR SING		REMOVE	REMOVE AND STOCKPILE)	
LINE	BEG. STA.	END STA.	LOCATION	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L. SHOUL.	APPROACH TRAILING	TRAILING END	APPROACH END	TRAILING END	XI MOD	TYPE III	GRAU 350 M–35 TL–3	50 XII	II CAT-1	VI BIC	AT-1	TYPE 350	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	EXISTING GUARDRAIL	REMARKS	
-L-	13 + 92.50	14 + 73.75	LT	81.25′			BRIDGE		4.42′	9.00′		62.5′		1.25′		1	1									
-L-	13 + 92.50	14 + 73.75	RT	81.25′				BRIDGE	4.42′	9.00′	62.5′		1.25′			1	1									
- L-	15 + 66.25	16 + 47.50	LT	81.25′				BRIDGE	4.42′	9.00′	62.5′		1.25′			1	1									
-L-	15 + 66.25	16 + 47.50	RT	81.25′			BRIDGE		4.42′	9.00′		62.5′		1.25′		1	1									
			TOTAL	325′												4	4									
		DEDUCT	TON FOR ANCHORS	–275 ′	-275' DEDUCTION FOR ANCHORS:																					
			PROJECT TOTAL	50′	50' (GRAU 350 TL-3) 4 @ 50' = 200'																					
			SAY	50′	50' (TYPE III) 4 @ 18.75' = 75'																					
		ADDITIONAL GUARDRA	AIL POST = 5 EACH		TOTAL DEDUCTIONS = 275'																					

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
-L-	12 + 55.00	14 + 91.86	CL	495
-L-	15 + 46.80	17 + 15.00	CL	361
	856			
	900			