COMPUTED BY: D. W. GARDNER DATE: 09/10/13
CHECKED BY: JBG DATE: 08/04/14

PROJECT REFERENCE NO.	SHEET NO.
B-4803	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
SUMMARY NO. 1					
-L- 10+25.00	-L- 15+06.31 (BB)	3347	2479		868
TOTAL SUMMARY NO. 1		3347	2479		868
SUMMARY NO. 2					
-L- 17+03.69 (EB)	-L- 26+25.00	14048	1765		12283
-DRV1- 10+11.00	-DRV1- 10+65.00	26	7		19
-DRV2- 10+11.00	-DRV2- 10+60.00	25	6		19
TOTAL SUMMARY NO. 2		14099	1778		12321
SUMMARY TOTALS		17446	4257		13189
LOSS DUE TO CLEARING & GRUBBING		-850			-850
PROJECT GRAND TOTALS		16596	4257		12339
SAY		17000			
EST. DDE = 95 CUBIC YARDS					
EST. UNDERCUT CONTINGENCY = 600 CUBIC YARDS					
SELECT GRANULAR MATERIAL = 400 CUBIC YARDS					

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, 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

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	TYPE III	GRAU 350	TEMP. W-BEAM ANCHOR						EA	G	NG				
-L-	14+06.31	15+06.31	LT.	100				15+06.31	4.25'	9'		6.25'		0.125'	1	1													
-L-	14+31.31	15+06.31	RT.	75			15+06.31		4.25'	9'	6.25'		0.125'		1	1													
-L-	17+03.69	17+78.69	LT.	75			17+03.69		4.25'	9'	6.25'		0.125'		1	1													
-L-	17+03.69	17+78.69	RT.	75				17+03.69	4.25'	9'		6.25'		0.125'	1	1													
-L-	15+06.77	16+96.39	RT.														1												TEMPORARY W-BEAM ANCHOR (SEE SHEET 2C-1)
			TOTALS	325											4	4	1												
		LESS DEDUCTION FOR ANCHORS																											
			GRAU-350 4 @ 50' =	-200																									
			TYPE III 4 @ 18.75' =	-75																									
			PROJECT TOTALS	50											4	4	1												
ADDITIONAL GUARDRAIL POSTS = 5 EA.			SAY	75																									

REMOVAL OF ASPHALT PAVEMENT SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	11+15.77	15+17.00	LT/RT	757.55
-L-	16+87.00	24+52.26	LT/RT	1458.11
	TEMPORARY PAVEMENT			
-L-	14+32.00	14+84.00	RT	34.67
-L-	14+84.00	15+17.00	RT	14.67
-L-	16+87.00	17+32.00	RT	20.00
-L-	17+32.00	17+83.00	RT	34.00
			TOTAL:	2319.00
			SAY:	2400.00

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L-	14+65.00	14+95.31	30.31
-L-	14+65.00	14+95.31	30.31
		TOTAL:	60.62
		SAY:	65

12/06/07
$$$$USERNAME$$$$
24-OCT-2014 09:11
R:\Roadway\Proj\b4803_rdy_sum.dgn