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COMPUTED BY: MBC DATE: 3/30/2015
CHECKED BY: HDB DATE: 3/31/2015

PROJECT NO.	SHEET NO.
R5206	3B-1

RD248621

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK (IN CUBIC YARDS)

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- 15+34.38	**-L- 75+08.00**	20,398	9,090		11,308
-Y- 10+25.00	**-Y- 10+50.00**	23			23
-DR1- 10+05.00	**-DR1- 10+69.00**		353	353	
-DR2- 10+25.00	**-DR2- 11+50.00**	1	1730	1729	
-DR3- 10+25.00	**-DR3- 10+75.00**	6	6		
-DR4- 10+11.00	**-DR4- 10+62.50**	3	31	28	
SUBTOTALS:		20431	11210	2110	11331
SUBTOTALS:					
PROJECT TOTALS:		20431	11210	2110	11331
Waste In Lieu Of Borrow				-2110	-2110
GRAND TOTALS:		20431	11210	0	9221
SAY:		**20500**	**11250**	**0**	**9250**

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.

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

LINE	Station	Station	LOC LT/RT/CL	YD^2
-L-	21+50	23+20	LT	0.27
-L-	40+05	41+87	RT	155.25
-L-	42+67	42+96	RT	52.09
-L-	44+29	45+01	LT	92.12
-L-	45+44	45+81	RT	51.15
-L-	46+08	46+15	RT	6.82
-L-	46+23	46+81	RT	80.44
-L-	71+59	72+93	RT	114.86
			TOTAL:	553.00
			SAY:	560

Approximate quantities only. Shoulder borrow, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the lump sum price for "Grading"

SELECT GRANULAR MATERIAL = 100 CUBIC YARDS (CONTINGENCY)
PER GEOTECH RECOMMENDATION, ESTIMATED 100 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.
DDE = 205 CY
SHOULDER BORROW = 2,500 CY (lump sum 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

LINE	BEG. STA.	END STA.	LOC.	LENGTH STRAIGHT	LENGTH SHOP CURVED	LENGTH DOUBLE FACED	WARRANT POINT APPR. END	WARRANT POINT TRAIL. END	"N" DIST FROM E.O.L.	TOTAL SHLDR WIDTH	FLAIR LENGTH APPR. END	FLAIR LENGTH TRAIL. END	W APPR. END	W TRAIL. END	ANCHORS XI MOD	ANCHORS XI	ANCHORS GRAU 350	ANCHORS M-350	ANCHORS XII	ANCHORS CAT-1	ANCHORS VI MOD	IMP. ATTEN. TYPE 350 EA	IMP. ATTEN. TYPE 350 G	IMP. ATTEN. TYPE 350 NG	REMOVE EXISTING GRDRAIL		REMARKS
-L-	18+00.00	22+23.00	RT	425			18+00.00	23+00.00	4'	7'		200'		4'			2										FILL WARRANT, STOPPED DUE TO DRIVE
-L-	27+68.28	31+50.00	RT	375			28+00.00	31+50.00	4'	7'							2										FILL WARRANT
-L-	35+50.00	43+50.00	RT	800			35+50.00	43+00.00	4'	7'							2										FILL WARRANT
-L-	65+35.59	66+11.82	RT	62.5	50		63+43.26	65+97.98	4'	7'										2							FILL WARRANT
-L-	69+00.00	72+00.00	RT	312.5			69+50.00	71+00.00	4'	7'							2										
PROJECT TOTAL				**1975.00**	**50.00**												**8.00**			**2.00**							
LESS ANCHOR UNIT DEDUCTIONS																											
GRAU 350		8 @50.00'		400.00																							
CAT-1		2 @6.25'			12.50																						
TOTAL				**1575.00**	**37.50**																						
SAY				**1587.5'**	**37.5'**																						
ADDITIONAL GUARDRAIL POSTS				**10.00**																							