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COMPUTED BY: E.Stewart DATE: 2/14/2018
CHECKED BY: J. Banks DATE: 2/14/2018

PROJECT NO.	SHEET NO.
U-5105	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT REMOVAL & BREAKING SUMMARY

IN SQUARE YARDS

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	ASPHALT REMOVAL (SY)	ASPHALT BREAKUP (SY)
-L-	18+04.92	18+15.00	LT	7.50 SY	
-Y1-	19+19.01	20+07.12	RT	43.78 SY	
-L-	21+37.97	22+15.37	LT	10.34 SY	
-Y2-	10+00.00	13+41.64	RT	326.32 SY	
-Y2-	14+44.99	15+17.01	RT	161.36 SY	
-Y2-	15+35.06	16+18.97	RT	77.78 SY	
-L-	20+03.31	21+23.33	CL		438.49 SY
			TOTAL:	627.09	438.49 SY
			SAY:	630	440 SY

EXPRESSWAY GUTTER SUMMARY

LINE	STATION	STATION	LENGTH
-Y1-	16+60.00	17+30.62	71
		TOTAL:	71
		SAY:	75

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV. (CY)	EMBANK. +% (CY)	BORROW (CY)	WASTE (CY)
-L- STA. 16+90.00	-L- STA. 25+55.00	1,890	2,666	776	0
SUBTOTALS:		1,890	2,666	776	0
-Y1- STA. 16+60.00	-Y1- STA. 20+40.90	1,303	278	0	1,025
SUBTOTALS:		1,303	278	0	1,025
-Y2- STA. 10+60.14	-Y2- STA. 17+85.00	135	7,651	7,516	0
SUBTOTALS:		135	7,651	7,516	0
-Y3- STA. 10+12.47	-Y3- STA. 11+10.00	26	83	57	0
SUBTOTALS:		26	83	57	0
PROJECT TOTALS:		3,354	10,678	8,348	1,025
LOSS DUE TO CLEARING & GRUBBING				500	
WASTE IN LIEU OF BORROW				-1,025	-1,025
PROJECT TOTALS:		3,354		7,823	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				391	
GRAND TOTALS:		3,354		8,214	
SAY:		3,360		8,220	

COMPUTED BY: E. Stewart DATE: 12/08/2017
CHECKED BY: A. Vogt DATE: 12/14/2017

PROJECT REFERENCE NO.	SHEET NO.
U-5105	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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 & STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU 350	M-350	XIII	CAT-1	VI MOD	TERMINAL END SECTION	G	NG				
Y1 / L	Y1 19+81.50	L 20+04.00	LT	206.25	50		-L- 22+30.00		6.5		50	6.25	1	0.125			1			1								
Y1	16+61.00	17+73.50	LT	112.5			-L- 17+25.00		2.5		50	6.25	1	0.125			1			1								
L	22+51.06	22+75.38	RT	25																		2						
			SUBTOTALS:	343.75	50												2			2		2						
	LESS ACHOR DEDUCTIONS:																											
	GREU, TL-3		2 @ 50 ft	100																								
	AT-1		2 @ 6.25 ft	12.5																								
	ANCHOR TOTALS:			112.5																								
	GUARDRAIL TOTALS:			231.25	50																							
	SAY:			237.5	50																							
	ADDITIONAL GUARDRAIL POSTS = 5 EA																											