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COMPUTED BY: GWA DATE: 9/11/19
CHECKED BY: SCB DATE: 9/23/19

PROJECT NO.	SHEET NO.
17BP.1.R.93	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +30%	Borrow	Waste
-L- STA. 12+75.11	-L- STA. 16+62.94	154	436	282	
-L- STA. 17+53.06	-L- STA. 20+10.00	38	423	385	
-DR- STA. 10+10.00	-DR- STA. 11+04.49	5	282	277	
-DR2- STA. 10+10.42	-DR2- STA. 11+48.84	23	586	563	
SUBTOTALS:		220	1,727	1,507	
SUBTOTALS:					
PROJECT TOTALS:		220	1,727	1,507	
PROJECT TOTALS:		220	1,727	1,507	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				75	
GRAND TOTALS:		220	1,727	1,582	0
SAY:		250		1,600	

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 BREAKING EXISTING ASPHALT PAVEMENT

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	AREA (SF)
-L-	15+00.00	16+91.00	CL	3,224
-L-	17+36.00	18+75.00	CL	2,330
			TOTAL (SF):	5,553
			TOTAL (SY):	617
			SAY:	620

SHOULDER BERM GUTTER SUMMARY

LINE	Station	Station	LENGTH
-L-	17+68.00	18+08.00	40.00
		TOTAL:	40.00
		SAY:	40

COMPUTED BY: GWA DATE: 9/11/19
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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		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	Type III	B-77	GREU, TL-3	GREU, TL-2	CAT-1	AT-1	Type III SC	B-77 SC	G	NG				
-L-	15+77.60	16+58.85	RT	81.25'				16+58.85 (BRIDGE)	5.5'	8.5'	50'		1'		1		1											
-L-	18+85.90	16+67.15	LT	81.25'			16+67.15 (BRIDGE)		5.5'	8.5'		50'		1'	1		1											
-L-/-DR2-	17+48.91	10+72.19	RT	81.25'	56.25'		17+48.85 (BRIDGE)		5.5'/1.0'	8.5'/4.0'		6.25'		0'	1					1								"N" TRANSITIONS FROM 5.5' ON -L-TO 1.0' ON -DR2- AT AT-1
-L-/-DR-	17+58.38	10+73.47	LT	81.25'	56.25'			17+58.38 (BRIDGE)	5.5'/1.0'	8.5'/4.0'	6.25'		0'		1					1								"N" TRANSITIONS FROM 5.5' ON -L-TO 1.0' ON -DR- AT AT-1
			PROJECT TOTALS:	325.00	112.50										4.00		2.00			2.00								
		ANCHOR DEDUCTIONS:																										
		GREU 350 TL-3: 2 @ 50' EA.		-100.00																								
		TYPE III: 4 @ 18.75' EA.		-75.00																								
		AT-1: 2 @ 6.25' EA.			-12.50																							
		GRAND TOTALS:		150.00	100.00										4.00		2.00			2.00								
		SAY:		175.00	100.00																							
		ADDITIONAL GUARDRAIL POSTS = 5																										