SUMMARY OF EARTHWORK
VOLUME IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 13+50.00	-L- 14+87.53		611	611	
	(BEGIN BRIDGE)				
SUBTOTAL:			611	611	
-L- 15+60.53	-L- 16+50.00	11	135	124	
(END BRIDGE)					
SUBTOTAL:		11	135	124	
TOTAL:		11	746	735	
PROJECT TOTAL:		11	746	735	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				37	
GRAND TOTAL:		11	746	772	
SAY:		20		820	

EST. UNDERCUT = 450 CY
EST. SELECT GRANULAR MATERIAL = 400 CY
EST. DDE = 90 CY

Earthwork quantities are calculated by ms consultants. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Approximate quantities only. Unclassified excavation, borrow excavation, fine grading, clearing and grubbing, and removal of existing pavement will be paid for at the lump sum price for "Grading".

SUMMARY OF EXISTING ASPAHLT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	14+25	15+07	CL	144
-L-	15+39	16+50	CL	204
			TOTAL:	348
			SAY:	360

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L- RT	14+63.05	14+68.05	5.00
-L- LT	14+83.70	14+88.70	5.00
-L- RT	15+59.56	15+64.56	5.00
-L- LT	15+87.45	16+04.00	16.55
		TOTAL:	31.55
		SAY:	35

"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 SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			REMOVE EXISTING GUARDRAIL	REMOVE AND RESET EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL-2	TYPE III							EA	G	NG			
-L-	13+75	14+78	RT	112.50			14+78		4.00	7	25		0.5		1	1												
-L-	13+75	15+00	LT	125.00				15+00	4.00	7		25		0.5	1	1												
-L-	15+47	16+25	RT	87.50				15+47	2.61	7		25		0.5	1	1												
-L-	15+72	16+35	LT	75.00			15+72		3.40	7	25		0.5		1	1												
		SUBTOTAL		400.00																								
		ANCHOR DEDUCTIONS																										
		GREU TL-2	4 @ 25	-100.00																								
		TYPE III	4 @ 18.75	-75.00																								
		PROJECT TOTAL		225.00											4	4												
		SAY		225.00																								
				EXTRA GUARDRAIL POSTS = 5 EA																								

12/06/07
30-APR-2021 10:06:08
N:\Project\17BP.11.R.153_rdy_sum.dgn
NCDOT WILKES 419 OVER NAKED CREEK\Roadway\
17BP.11.R.153
$$$$USERNAME$$$$