COMPUTED BY: MTP	DATE: FEBRUARY 25, 2020
CHECKED BY: NKB	DATE: NOVEMBER 15, 2020

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
BR-0109	3B-1

SUMMARY OF EARTHWORK
VOLUME IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 27+10.00	-L- 28+22.88	80	166	86	
	(BEGIN BRIDGE)				
SUBTOTAL:		80	166	86	
-L- 28+85.13	-L- 30+50.00	34	112	78	
(END BRIDGE)					
SUBTOTAL:		34	112	78	
TOTAL:		114	278	164	
PROJECT TOTAL:		114	278	164	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				8	
GRAND TOTAL:		114	278	172	
SAY:		120		190	

EST. UNDERCUT = 450 CY
EST. SELECT GRANULAR MATERIAL = 400 CY
EST. DDE = 120 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 ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	27+10	28+42	CL	288
-L-	28+67	30+50	CL	417
			TOTAL:	705
			SAY:	710

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L-	28+07	28+12	5
-L-	28+07	28+12	5
-L-	28+96	29+01	5
-L-	28+96	29+10	14
		TOTAL:	29
		SAY:	30

"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-3	TYPE III							EA	G	NG			
-L-	27+49	28+23	LT	75.00				28+23	4	7		50		1	1	1												
-L-	27+49	28+23	RT	75.00			28+23		4	7	50		1		1	1												
-L-	28+85	29+57	LT	75.00			28+85		4	7	50		1		1	1												
-L-	28+85	29+60	RT	75.00				28+85	4	7		50		1	1	1												
		SUBTOTAL		300.00																								
		ANCHOR DEDUCTIONS																										
		GREU TL-3	4 @ 50	-200.00																								
		TYPE III	4 @ 18.75	-75.00																								
		PROJECT TOTAL		25.00											4	4												
		SAY		37.50																								
				EXTRA GUARDRAIL POSTS = 5 EA																								

12/06/07
03-MAY-2021 15:58
N:\Project\BR0109 NCDOT YADKIN 80 OVER UT FARMERS CREEK\Roadway\Proj\BR0109_rdy_sum.dgn
$$$$USERNAME$$$$