COMPUTED BY: NKB	DATE: MAY 29, 2020
CHECKED BY: MTP	DATE: JUNE 2, 2020

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
BR-0107	3B-1

SUMMARY OF EARTHWORK
VOLUME IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. + %	BORROW	WASTE
-L- 15+50.00	-L- 17+34.38	48	29		19
	(BEGIN BRIDGE)				
SUBTOTALS:		48	29		19
-L- 18+01.63	-L- 20+35.00	46	33		13
(END BRIDGE)					
-DR- 10+20.00	-DR- 10+80.00		23	23	
SUBTOTALS:		46	56	23	13
TOTALS:		94	85	23	32
MATERIAL FOR SHOULDER CONSTRUCTION			80	80	
WASTE IN LIEU OF BORROW				-13	-13
PROJECT TOTALS:		94	165	90	19
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				5	
GRAND TOTALS:		94	165	95	19
SAY:		100		100	

EST. UNDERCUT = 450 CY
EST. SELECT GRANULAR MATERIAL = 400 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".

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	16+85	17+62	CL	149
-L-	17+87	18+50	CL	121
			TOTAL:	270
			SAY:	280

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L- LT	17+18.50	17+23.50	5
-L- RT	17+18.50	17+23.50	5
-L- LT	18+12.50	18+17.50	5
-L- RT	18+12.50	18+35.50	23
		TOTAL:	38
		SAY:	40

"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: STRAIGHT	LENGTH: SHOP CURVED	LENGTH: DOUBLE FACED	WARRANT POINT: APPROACH END	WARRANT POINT: TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH: APPROACH END	FLARE LENGTH: TRAILING END	W: APPROACH END	W: TRAILING END	ANCHORS: GREU TL-3	ANCHORS: TYPE III	ANCHORS: TYPE III SHOP CURVED	ANCHORS: AT-1	ANCHORS:	ANCHORS:	ANCHORS:	ANCHORS:	ANCHORS:	IMPACT ATTENUATOR TYPE 350: EA	IMPACT ATTENUATOR TYPE 350: G	IMPACT ATTENUATOR TYPE 350: NG	REMOVE EXISTING GUARDRAIL	REMOVE AND RESET EXISTING GUARDRAIL	REMARKS
-L-	16+61	17+34	LT	81.25				17+34	4	7		50		1	1	1													
-L-	17+04	17+34	RT		62.50		17+34		4	7							1	1											SHOP CURVE RADIUS = 20'
-L-	18+02	18+74	LT	81.25			18+02		4	7	50		1		1	1													
-L-	18+02	18+87	RT	87.50				18+02	4	7		50		1	1	1													
		SUBTOTAL		250.00	62.50																								
		ANCHOR DEDUCTIONS																											
		GREU TL-3	3 @ 50	-150.00																									
		TYPE III	3 @ 18.75	-56.25																									
		TYPE III SC	1 @ 18.75		-18.75																								
		AT-1	1 @ 6.25		-6.25																								
		PROJECT TOTAL		43.75	37.50										3	3	1	1											
		SAY		50.00	50.00																								
				EXTRA GUARDRAIL POSTS = 5 EA																									

12/06/07
30-NOV-2020 16:23
R:\Roadway\Proj\BR0107_rdy_sum.dgn
BR-0107 NCDOT IREDELL 131 OVER UT SNOW CREEK