COMPUTED BY: TTC DATE: 8/29/2019
CHECKED BY: TLK DATE: 8/29/2019

PROJECT REFERENCE NO.	SHEET NO.
B-5671	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 12+00.00	16+00.00	10		2,966	2,956	
-L- 18+00.00	22+00.00	17		4,410	4,393	
SUBTOTAL:		27		7,376	7,349	
TOTALS:		27		7,376	7,349	
PROJECT TOTAL:		27		7,376	7,349	
EST 5% TO REPLACE TOP SOIL ON BORROW PIT					367	
GRAND TOTAL:		27			7,716	
SAY:		30			7,720	

PER GEOTECH RECOMMENDATION: EST. SELECT GRANULAR MATERIAL: 300 CY
PER GEOTECH RECOMMENDATION: EST. UNDERCUT = 300 CY

NOTE:
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING ASPHALT PAVEMENT, AND REMOVAL OF EXISTING ASPHALT PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

SHOULDER BERM GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LF
-L-	15+59.00	15+81.44	LT	22.44
-L-	18+11.11	18+32.00	LT	20.89
			TOTAL:	43.33
			SAY:	50

REMOVAL OF EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	13+20.00	14+71.00	CL	454.20
-L-	19+27.00	20+35.00	CL	320.67
			TOTAL:	774.87
			SAY:	855

BREAKING OF EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	14+71.00	16+00.00 (BR.)	CL	404.14
-L-	18+00.00 (BR.)	19+27.00	CL	397.74
			TOTAL:	801.88
			SAY:	885

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 SHOUL. WIDTH	FLARE LENGTH: APPROACH END	FLARE LENGTH: TRAILING END	W: APPROACH END	W: TRAILING END	ANCHORS: XI MOD	ANCHORS: B-77	ANCHORS: GREU 350	ANCHORS: M-350	ANCHORS: TEMP. W-BEAM RETROFIT	ANCHORS: TYPE III	ANCHORS: VI MOD	ANCHORS: GREU TL-3	ANCHORS: AT-1	TEMP. CRASH CUSHIONS: EA	TEMP. CRASH CUSHIONS: G	TEMP. CRASH CUSHIONS: NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	14+45.92	15+94.97 (BR.)	LEFT	147.875'				15+94.97 (BR.)	8.00'	11.00'		75'		1.5'		1						1						159.57'		
-L-	12+97.09	16+04.96 (BR.)	RIGHT	310.375'			16+04.96 (BR.)		8.00'	11.00'	237.5'		4.75'			1						1						334.99'		
-L-	18+03.60 (BR.)	19+50.93	RIGHT	147.875'				18+03.60 (BR.)	8.00'	11.00'		75'		1.5'		1						1						160.17'		
-L-	17+96.38 (BR.)	21+08.60	LEFT	310.375'			17+96.38 (BR.)		8.00'	11.00'	237.5'		4.75'			1						1						334.59'		
			SUBTOTAL	916.50'																								989.32'		
		LESS ANCHOR DEDUCTIONS:																												
		GREU TL-3	4 @ 50.00' =	-200.00'																										
		B-77	4 @ 22.875' =	-91.50'																										
		ANCHOR DEDUCTION TOTAL:		-291.50'																										
			PROJECT TOTAL	625.00'												4						4						989.32'		
			SAY	637.5'												4						4						990.00		
		ADDITIONAL GUARDRAIL POST =		5 EA																										

4/04/06
28-FEB-2020 11:35
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$$USERNAME$$