12/06/07

COMPUTED BY:	DATE:
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
17BP.8.R.118	3B-1

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
–L– 12+65	14+98.83	77	1,823	1,746	
	SUBTOTAL	77	1,823	1,746	
–L– 15+81.16	17+65	33	1,016	983	
	SUBTOTAL	33	1,016	983	
	SUBTOTAL	110	2,839	2,729	
TOTAL		110	2,839	2,729	
MATERIAL FOR SHOULDER CONSTRUCTION			137	137	
LOSS DUE TO CLEARING & GRUBBING					
WASTE IN LIEU OF BORROW					
PROJECT TOTAL		110	2,976	2,866	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				143	
GRAND TOTALS:		110		3,009	
SAY:		125		3,050	

SHALLOW UNDERCUT EXCAVATION CONTINGENCY PER GEOTECH REPORT = 100 CY
UNDERCUT EXCAVATION CONTINGENCY PER GEOTECH REPORT = 400 CY
SELECT GRANULAR MATERIAL CONTINGENCY PER GEOTECH REPORT = 200 CY
CLASS IV SUBGRADE MATERIAL CONTINGENCY PER GEOTECH REPORT = 100 TONS
GEOTEXTILE FOR SOIL STABILIZATION CONTINGENCY PER GEOTECH REPORT = 400 SY

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 EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
L	13+75	15+15	CL	311
L	15+63	16+75	CL	249
			TOTAL:	560
			SAY:	560

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
L (LT SIDE)	15+96.00	16+10	14.00
		TOTAL:	14.00
		SAY:	15

"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 SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE 350			SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GRAU 350 (TL-2)	M-350	TYPE III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG				
L	13+60.25	15+04.00	LT	143.75				14+75									1		1											
L	13+59.40	14+96.54	RT	137.50			14+10										1		1											
L	15+84.00	16+52.75	LT	68.75			15+85										1		1											
L	15+76.54	16+32.79	RT	56.25				15+80									1		1											
		SUBTOTAL		406.25													4		4											
		LESS ANCHOR DEDUCTIONS																												
		GRAU-350 (TL-2) 4 @ 25'		–100.00																										
		TYPE III 4 @ 18.75'		–75.00																										
		TOTAL		231.25													4		4											
		SAY		237.50			5 ADDITIONAL GUARDRAIL POSTS										4		4											

4/21/2017
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