à	COMPUTED BY:	EMT	DATE: <u>6/26/2017</u>
	CHECKED BY:	BAW	DATE: 9/29/2017

SUMMARY OF EARTHWORK

IN CUBIC YARDS

-L- 13+50 20+10 6 711 705 1 SUBTOTAL 6 711 705 1 SUBTOTAL 6 711 705 1 SUBTOTAL 6 711 705 1 TOTAL 6 711 705 1 TOTAL 6 711 705 1 TOTAL 6 711 705 1 ILOSS DUE TO CLEARING & GRUBBING -2 2 2 1 PROJECT TOTAL 4 711 707 1 EST. 5% TO REPLACE TOP SOIL ON BORROW PIT 1 1 1 1 GRAND TOTALS: 4 742 1 1 1 GRAND TOTALS: 4 742 1 1 1 SAY: 50 800 1 1 1 1 SAY: 50 800 1 1 1 1 1 SAY: 50 800 1 1 1 1 1 1 1 SAY: 50 <th></th> <th>STATION</th> <th>UNCL. EXCAV.</th> <th>EMBANK. +%</th> <th>BORROW</th> <th>WAST</th>		STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WAST
SUBTOTAL 0 711 705 SUBTOTAL 6 711 705 TOTAL 6 711 705 TOTAL 6 711 705 LOSS DUE TO CLEARING & GRUBBING -2 2 PROJECT TOTAL 4 711 707 PROJECT TOTAL 4 711 707 EST. 5% TO REPLACE TOP SOIL ON BORROW PIT 35 35 GRAND TOTALS: 4 742 1 GRAND TOTALS: 4 742 1 SAY: 50 800 1 EST. DRAINAGE DITCH EXCAVATION = 315 CY 800 1 1 EST. DRAINAGE DITCH EXCAVATION = 100 CY EST. SHALLOW UNDERCUT = 50 CY 100 SY	-L- 13+50	20+10	6	711	705	
TOTAL 6 711 705 TOTAL 6 711 705 LOSS DUE TO CLEARING & GRUBBING -2 2 2 PROJECT TOTAL 4 711 707 1 PROJECT TOTAL 4 711 707 1 EST. 5% TO REPLACE TOP SOIL ON BORROW PIT 1 35 35 1 EST. 5% TO REPLACE TOP SOIL ON BORROW PIT 1		SUBTOTAL	6	711	705	
Instruct Instr		SUBTOTAL	6	711	705	
PROJECT TOTAL 4 711 707 EST. 5% TO REPLACE TOP SOIL ON BORROW PIT 35 35 GRAND TOTALS: 4 742 GRAND TOTALS: 4 742 SAY: 50 800 EST. DRAINAGE DITCH EXCAVATION = 315 CY 800 200 EST. SELECT GRANULAR MATERIAL, CL III = 100 CY 100 SY EST. SHALLOW UNDERCUT = 50 CY 50 50	TOTAL		6	711	705	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT 35 GRAND TOTALS: 4 SAY: 50 SUPPLACE 100 CY ST. SELECT GRANULAR MATERIAL, CL III = 100 CY ST. SHALLOW UNDERCUT = 50 CY	LOSS DUE TO CLE	ARING & GRUBBING	-2		2	
BORROW PIT33GRAND TOTALS:4GRAND TOTALS:4A742A742SAY:50 <td< td=""><td>PROJECT TOTAL</td><td></td><td>4</td><td>711</td><td>707</td><td></td></td<>	PROJECT TOTAL		4	711	707	
SAY:50800EST. DRAINAGE DITCH EXCAVATION = 315 CYEST. UNDERCUT EXCAVATION = 100 CYEST. SELECT GRANULAR MATERIAL, CL III = 100 CYEST. GEOTEXTILE FOR SOIL STABILIZATION = 100 SYEST. SHALLOW UNDERCUT = 50 CY					35	
SAY:50800EST. DRAINAGE DITCH EXCAVATION = 315 CYEST. UNDERCUT EXCAVATION = 100 CYEST. SELECT GRANULAR MATERIAL, CL III = 100 CYEST. GEOTEXTILE FOR SOIL STABILIZATION = 100 SYEST. SHALLOW UNDERCUT = 50 CY						
EST. DRAINAGE DITCH EXCAVATION = 315 CY EST. UNDERCUT EXCAVATION = 100 CY EST. SELECT GRANULAR MATERIAL, CL III = 100 CY EST. GEOTEXTILE FOR SOIL STABILIZATION = 100 SY EST. SHALLOW UNDERCUT = 50 CY	GRAND	TOTALS:	4		742	
EST. UNDERCUT EXCAVATION = 100 CY EST. SELECT GRANULAR MATERIAL, CL III = 100 CY EST. GEOTEXTILE FOR SOIL STABILIZATION = 100 SY EST. SHALLOW UNDERCUT = 50 CY	S	AY:	50		800	
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.	EST. SELECT GRANUL EST. GEOTEXTILE FO	-L- 13+50 20+10 6 SUBTOTAL 6 SS DUE TO CLEARING & GRUBBING -2 ROJECT TOTAL 4 ST. 5% TO REPLACE TOP SOIL ON BORROW PIT 1 GRAND TOTALS: 4 SAY: 50 C DRAINAGE DITCH EXCAVATION = 315 CY 100 CY UNDERCUT EXCAVATION = 100 CY SELECT GRANULAR MATERIAL, CL III = 100 CY C GEOTEXTILE FOR SOIL STABILIZATION = 100 SY SHALLOW UNDERCUT = 50 CY C L IV SUBGRADE STABILIZATION = 80 TONS Earthwork quantities are calculated I	= 100 SY			

"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

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	SURVEY					LENGTH		WARR	ant point	"N" DIST.	TOTAL	FLARE	LENGTH	,	w				A	NCHORS				
	LINE	BEG. STA.	END STA.	LOCATION	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	SHOUL. WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU TL–2	M-350	TYPE III	CAT-1	VI MOD	BIC	TER SEC
	L	16 + 50.00	18+00.00	LT	150.00			17 + 40	17 + 06	4	7	25	25	0.5	0.5			2						
	L	16 + 50.00	17 + 87.50	RT	137.50			17 + 06	17 + 40	4	7	25	25	0.5	0.5			2						
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n.d(
SUD																								
З_R																								
4823			SUBTOTAL		287.50													4						
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L L L			GREU, TL-2 4 @	25′	-100.00																			
_ التاريخ																								
RNAN																								1
∨ ĭŏ₩ \₩₩			TOTAL		187.50													4						1
USF USF			SAY		200′			ADDITIONAL GUARD	AIL POSTS 5 EACH									4						

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
L	14 + 50	17 + 15	CL/RT	404
L	17 + 45	19 + 00	CL/RT	95
	499			
			SAY:	500

GUARDRAIL SUMMARY

					PRO	Ject reference B-4823	NO.	sheet no. 3B-1	
					L	U 702J			
	-								
	IMPACT ATTENUATO	R SINGLE	REMOVE	REMOVE AND					
TERM	TYPE 350	FACED CONCRETE BARRIER	EXISTING	STOCKPILE EXISTING		RE	MARKS		
SECT	EA G N	G		GUARDRAIL					
		_							
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