COMPUTED BY: EDS	DATE: 5/19/17
CHECKED BY: NJD	DATE: 5/19/17

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
R-5516	3B-1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SUMMARY OF EARTHWORK
IN CUBIC YARDS

PROJECT: R-5516 (SLOCUM ROAD) COUNTY: CRAVEN

LINE	STATION	STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
L (LEFT)	60+00.00	90+00.00	2,550		1,967	0	583
L (CENTER)	60+00.00	90+00.00	718		260	0	458
L (RIGHT)	60+00.00	90+00.00	5,723		3,931	0	1,792
L (LEFT)	90+00.00	122+00.00	6,431		6,846	415	0
L (CENTER)	90+00.00	122+00.00	965		369	0	596
L (RIGHT)	90+00.00	122+00.00	5,002		4,945	0	57
Subtotal No. 1			21,389		18,318	415	3,486
LRA	13+00.00	16+00.00	563	246	4,217	3,654	246
LRB	13+00.00	14+50.00	276	164	867	591	164
YWB01	12+00.00	13+00.00	18	246	382	364	246
Subtotal No. 2			857	656	5,466	4,609	656
YEB01	15+00.00	29+00.00	2,219	2,282	73,233	71,014	2,282
YEB01	34+00.00	38+00.00	642	1,062	81,842	81,200	1,062
YEB01	38+00.00	60+00.00	21,173	3,738	30,490	9,317	3,738
Subtotal No. 3			24,034	7,082	185,564	161,531	7,082
Y09A	10+50.00	28+00.00	7,835	4,096	20,242	12,407	4,096
Y10A	12+00.00	40+50.00	4,537	4,488	7,558	3,021	4,488
Y11A	18+00.00	27+50.00	3,764	820	594	0	3,990
Subtotal No. 4			16,136	9,404	28,394	15,428	12,574
Project Total			62,416	17,142	237,742	181,982	23,798
LOSS DUE TO CLEARING & GRUBBING			-7,000	0	0	7,000	0
ADDITIONAL UNDERCUT (CONTINGENCY)			0	5,400	7,020	7,020	5,400
UNCLASSIFIED EXCAVATION			0	0	0	620	620
WASTE IN LIEU OF BORROW			0	0	0	-6,655	-6,655
EST. 5% TO REPLACE TOP SOIL ON BORROW LIST						9,498	
GRAND TOTAL			55,416	22,542	244,762	199,465	23,163
SAY			**56,000**	**22,600**		**200,000**	

EST. DDE	2,900 CY
SELECT GRANULAR MATERIAL	37,300 CY
EST. SHALLOW UNDERCUT	10,520 CY
GEOTEXTILE FOR SOIL STABILIZATION	70,000 SY
SUBGRADE STABILIZATION CLASS IV	20,300 TONS

Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Asphalt Pavement will be paid for at the contract lump sum price for "Grading."

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

LINE	Station	Station	LOC LT/RT/CL	YD^2
L	81+17.23	88+03.42	CL	691.00
L	107+42.38	112+29.71	LT	634.00
L	112+57.14	118+92.08	RT	1565.00
L	113+64.83	114+29.44	LT	9.00
L	115+69.02	116+85.88	LT	85.00
Y10A	34+85.24	38+06.76	LT	1180.00
TEMPORARY PAVEMENT REMOVAL				
L	64+25.00	68+08.00	MED	1346.00
	67+97.00	84+03.00	LT	475.00
	76+58.00	77+38.00	MED	85.00
	79+81.00	84+26.00	MED	475.00
YWB01	27+89.00	29+80.00	RT	294.00
YEB01	55+08.00	57+49.00	LT	320.00
			TOTAL:	**7,159.00**
			SAY:	**7,160**

SUMMARY OF GUARDRAIL

"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.

NG = NON-GATING IMPACT ATTENUATOR TYPE 350
G = GATING IMPACT ATTENUATOR TYPE 350

LINE	BEG. STA.	END STA.	LOC.	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH		W		ANCHORS							IMP. ATTEN. TYPE 350			REMOVE EXISTING GRDRAIL	SINGLE FACE CONCRETE BARRIER	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPR. END	TRAIL. END			APPR. END	TRAIL. END	APPR. END	TRAIL. END	III	B-77	GRAU 350	M-350	AT-1	CAT-1	TES	EA	G	NG			
L	74+64.85	76+58.68	MED	225.00			75+03.58	75+23.59	VARIES	6	-	-	-	-		4						2		X		40	CRASH CUSHION NEEDED @ STA. 74+84.85
	75+79.12	77+46.05	RT																						165		
	78+86.98	80+51.23	LT																						165		
	95+40.25	98+15.75	MED	387.50			96+78.00	96+78.00														2		X			
YEB01	23+09.47	29+00.84	RT	606.25			23+50.96	29+00.84	12	15	50	-	1	-		1	1										
	26+80.81	29+00.84	LT	214.38			27+32.00	29+00.84	10	15	50	-	2	-		1	1										
	33+65.84	41+96.87	LT	733.23			33+65.84	41+00.00	VARIES 4-10	15	-	37.5	-	4		1				1							
	59+76.38	59+76.38	END	42.5			-	-	-	-	-	-	-	-							2						DRIVEWAY DEAD END
YWB01	33+07.72	34+16.00	LT																						110		
LRA	14+89.78	19+68.76	RT	456.25			15+43.00	19+65.00	14	17	50	-	2	-			1			1							
			SUBTOTAL	**2665.11**												**7**	**3**			**2**	**2**	**4**			**440.00**	**40**	
ANCHOR UNIT DEDUCTIONS																											
		GRAU 350 @ 50.00' EACH		-150.00																							
		B-77 @ 18.75' EACH		-131.25																							
		CAT-1 @ 6.25' EACH		-12.50																							
	ADDITIONAL POSTS = 10		**TOTAL**	**2371.36**												**7**	**3**			**2**	**2**	**4**			**440.00**	**40**	
			SAY	**2375**																							

1:28:47 PM
R:\Roadway\Proj\r-5516_rdy_psh_3B-1.dgn