6/21/00

COMPUTED BY: NGP	DATE: 08 / 14 / 2025
CHECKED BY: DBE	DATE: 08 / 14 / 2025

PROJECT REFERENCE NO.	SHEET NO.
R-5739	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT EXCAV.	EMBANK. +%	BORROW	WASTE
12+09.79 –L– LT	42+00.00 –L– LT	781		1,430	649	
12+09.79 –L– RT	42+00.00 –L– RT	603		2,283	1,680	
10+17.36 –Y–	12+00.00 –Y–	34		30		4
	SUBTOTAL	1,418		3,743	2,329	4
42+00.00 –L– LT	72+00.00 –L– LT	630		1,866	1,236	
42+00.00 –L– RT	72+00.00 –L– RT	667		2,088	1,421	
10+22.00 –Y1–	12+00.00 –Y1–	74		172	98	
	SUBTOTAL	1,371		4,126	2,755	
72+00.00 –L– LT	102+00.00 –L– LT	154		1,834	1,680	
72+00.00 –L– RT	102+00.00 –L– RT	487		1,240	753	
	SUBTOTAL	641		3,074	2,433	
102+00.00 –L– LT	132+00.00 –L– LT	693		1,068	375	
102+00.00 –L– RT	132+00.00 –L– RT	465		1,179	714	
	SUBTOTAL	1,158		2,247	1,089	
132+00.00 –L– LT	162+29.36 –L– LT	371		1,605	1,234	
132+00.00 –L– RT	162+29.36 –L– RT	558		1,143	585	
12+35.00 –Y2–	19+98.50 –Y2–	2,630		249		2,381
20+42.89 –Y2–	22+90.66 –Y2–	267		91		176
	SUBTOTAL	3,826		3,088	1,819	2,557
162+29.36 –L–	168+86.52 –L–	25		9,842	9,817	
	SUBTOTAL	25		9,842	9,817	
168+86.52 –L– LT	198+00.00 –L– LT	575		1,370	795	
168+86.52 –L– RT	198+00.00 –L– RT	170		1,420	1,250	
	SUBTOTAL	745		2,790	2,045	
198+00.00 –L– LT	228+00.00 –L– LT	427		2,518	2,091	
198+00.00 –L– RT	228+00.00 –L– RT	1,255		1,511	256	
	SUBTOTAL	1,682		4,029	2,347	
228+00.00 –L– LT	258+00.00 –L– LT	475		1,636	1,161	
228+00.00 –L– RT	258+00.00 –L– RT	465		1,763	1,298	
	SUBTOTAL	940		3,399	2,459	
258+00.00 –L– LT	288+00.00 –L– LT	571		2,026	1,455	
258+00.00 –L– RT	288+00.00 –L– RT	226		2,795	2,569	
	SUBTOTAL	797		4,821	4,024	

STATION	STATION	UNCL. EXCAV.	UNDERCUT EXCAV.	EMBANK. +%	BORROW	WASTE
288+00.00 –L– LT	318+00.00 –L– LT	1,723		1,171		552
288+00.00 –L– RT	318+00.00 –L– RT	794		1,063	269	
	SUBTOTAL	2,517		2,234	269	552
318+00.00 –L– LT	348+00.00 –L– LT	1,541		2,219	678	
318+00.00 –L– RT	348+00.00 –L– RT	806		2,849	2,043	
	SUBTOTAL	2,347		5,068	2,721	
348+00.00 –L– LT	378+00.00 –L– LT	469		1,190	721	
348+00.00 –L– RT	378+00.00 –L– RT	564		1,366	802	
	SUBTOTAL	1,033		2,556	1,523	
378+00.00 –L– LT	408+00.00 –L– LT	696		845	149	
378+00.00 –L– RT	408+00.00 –L– RT	385		1,245	860	
	SUBTOTAL	1,081		2,090	1,009	
408+00.00 –L– LT	438+00.00 –L– LT	574		1,241	667	
408+00.00 –L– RT	438+00.00 –L– RT	326		1,451	1,125	
	SUBTOTAL	900		2,692	1,792	
438+00.00 –L– LT	468+00.00 –L– LT	301		1,446	1,145	
438+00.00 –L– RT	468+00.00 –L– RT	640		1,203	563	
10+57.00 –Y3–	11+83.75 –Y3–	12		315	303	
	SUBTOTAL	953		2,964	2,011	
468+00.00 –L– LT	498+00.00 –L– LT	1,462		950	563	512
468+00.00 –L– RT	498+00.00 –L– RT	745		821	76	
10+95.00 –Y4–	11+84.00 –Y4–	12		7		5
	SUBTOTAL	2,219		1,778	76	517
498+00.00 –L– LT	528+00.00 –L– LT	567		1,574	1,007	
498+00.00 –L– RT	528+00.00 –L– RT	1,754		1,306		448
10+95.00 –Y5–	11+83.61 –Y5–	11		55	44	
11+40.00 –Y6–	11+83.73 –Y6–	14		3		11
	SUBTOTAL	2,346		2,938	1,051	459
528+00.00 –L– LT	559+91.97 –L– LT	331		1,631	1,300	
528+00.00 –L– RT	559+91.97 –L– RT	497		1,138	641	
10+16.29 –Y7–	10+80.00 –Y7–	1		15	14	
11+10.00 –Y11–	11+81.95 –Y11–	48		9		39
	SUBTOTAL	877		2,793	1,955	39

STATION	STATION	UNCL. EXCAV.	UNDERCUT EXCAV.	EMBANK. +%	BORROW	WASTE
TOTAL		26,876		66,272	43,524	4,128
MATERIAL FOR SHOULDER CONSTRUCTION				3,955	3,955	
WASTE IN LIEU OF BORROW					–4,128	–4,128
PROJECT TOTALS		26,876		70,227	43,351	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					2,168	
GRAND TOTALS		26,876		70,227	45,519	
SAY		27,200			46,000	

NOTES:

1. EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN ENGINEER. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.
2. ESTIMATED DDE = 5,220 CY
   –L– PAVEMENT STRUCTURE VOLUME = 2,971 CY
3. THE FOLLOWING QUANTITIES ARE PER THE "GEOTECHNICAL REPORT – REVISED DESIGN AND CONSTRUCTION RECOMMENDATIONS" LETTER DATED FEBRUARY 4, 2025:

   ESTIMATED UNCLASSIFIED EXCAVATION – ACCEPTABLE, BUT NOT TO BE USED IN THE TOP 3 FT OF EMBANKMENT OR BACKFILL = 700 CY
   –L– STA. 154+55 TO 159+75
   –Y2– STA. 15+25 TO 20+39

   ESTIMATED ADDITIONAL SHALLOW UNDERCUT AS CONTINGENCY TO BE USED AS DIRECTED BY THE ENGINEER = 300 CY
   TOTAL SHALLOW UNDERCUT = 300 CY

   ESTIMATED CLASS IV SUBGRADE STABILIZATION TO REPLACE SHALLOW UNDERCUT AS CONTINGENCY TO BE USED AS DIRECTED BY THE ENGINEER = 600 TONS
   TOTAL CLASS IV SUBGRADE STABILIZATION = 600 TONS

   ESTIMATED SELECT GRANULAR MATERIAL TO REPLACE UNDERCUT FOR EMBANKMENT STABILITY AS CONTINGENCY TO BE USED AS DIRECTED BY THE ENGINEER = 500 CY
   TOTAL SELECT GRANULAR MATERIAL = 500 CY

SUMMARY OF ASPHALT PAVEMENT REMOVAL
IN SQUARE YARDS

SURVEY LINE	STATION	STATION	LOCATION LT/CL/RT	SY
–Y1– /–L–	11+51	58+43	RT/RT	376
–L– /–Y2–	160+87	21+69	RT/RT	439
–L– /–Y2–	162+13	14+39	LT/RT	994
–L–	163+42	171+09	RT	1639
–Y5– /–L–	11+41	502+14	LT/LT	21
–L–	549+60	551+95	RT	8
–L–	549+87	551+35	LT	10
			TOTAL	3486
			SAY	3500