

COMPUTED BY: SGM DATE: 4/25/2022
 CHECKED BY: JLT DATE: 4/29/2022

PROJECT NO. SHEET NO.
 A-0009CA 3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Undercut	Embank. +%	Borrow	Waste
Onsite Detour						
DET_S5 10+00.00	DET_S5 23+33.00	682		2,425	1,743	
DET_S8 10+00.00	DET_S8 22+25.00	4,047		3,663		384
DET_DR1A 10+00.00	DET_DR1A 14+00.15	92		4,939	4,847	
SUBTOTAL 1		4,821		11,027	6,590	384
Detour Removal						
Removal of Detour DET_S5		94		1,251	1,157	
Removal of Detour DET_S8		38		3,405	3,367	
Removal of Detour DET_DR1A		4,295		83		4,212
SUBTOTAL 2		4,427		4,739	4,524	4,212
-L- 10+20.02	-L- 40+00.00	2,560		5,801	3,241	
-L- 35+25.00	-L- 36+75.00		400			400
Dry Detention Basin #2						
-Y1- 13+70.00		629		2,132	1,503	
Dry Detention Basin #1						
-DR2- 10+26.00	-DR2- 11+60.00	329		1		328
SUBTOTAL 3		4,128	400	7,934	4,744	1,338
-L- 40+00.00	-L- 70+50.00	8,572		13,231	4,659	
-L- 42+25.00	-L- 45+75.00		550			550
-L- 56+25.00	-L- 59+75.00		740			740
-Y6- 11+05.00	-Y6- 12+85.70	7		15	8	
SUBTOTAL 4		8,579	1,290	13,246	4,667	1,290
-L- 70+50.00	-L- 100+00.00	44,928		35,294		9,634
-L- 71+25.00	-L- 72+75.00		690			690
SUBTOTAL 5		44,928	690	35,294	3,755	10,324
-L- 100+00.00	-L- 129+00.00	4,819		8,574	3,755	
-L- 108+25.00	-L- 108+75.00		140			140
-L- 113+75.00	-L- 119+25.00		1,460			1,460
SUBTOTAL 6		4,819	1,600	8,574	3,755	1,600
-L- 129+00.00	-L- 158+00.00	8,868		13,953	5,085	
-L- 133+25.00	-L- 139+25.00		1,870			1,870
-L- 149+25.00	-L- 150+75.00		250			250
SUBTOTAL 7		8,868	2,120	13,953	5,085	2,120
-L- 158+00.00	-L- 185+00.00	1,052		16,544	15,492	
-L- 157+25.00	-L- 160+75.00		560			560
-L- 162+75.00	-L- 164+75.00		380			380
-L- 171+75.00	-L- 175+25.00		970			970
-L- 179+25.00	-L- 185+00.00		1,454			1,454
-DR1A- 10+05.00	-DR1A- 11+07.00	13		851	838	
-DR1- 10+20.00	-DR1- 11+71.39	1		553	552	
SUBTOTAL 8		1,066	3,364	17,948	16,882	3,364
-L- 185+00.00	-L- 208+00.00	3734		6707	2,973	
-L- 185+00.00	-L- 187+75.00		696			696
-L- 205+25.00	-L- 208+00.00		490			490
SUBTOTAL 9		3,734	1,186	6,707	2,973	1,186
TOTALS:		85,370	10,650	119,422	49,220	25,818
LOSS DUE TO CLEARING & GRUBBING		-2,500			2,500	
ADDITIONAL UNDERCUT (EMBANKMENT & SUBGRADE STABILITY)			1,850			1,850
WASTE IN LIEU OF BORROW					-14,268	-14,268
PROJECT TOTALS:		82,870	12,500	119,422	37,452	13,400
EDT. 5% TO REPLACE TOP SOIL IN BORROW PIT					2,053	
GRAND TOTALS:		82,870	12,500	119,422	39,505	13,400
SAY		84,000	12,500		44,000	

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	10+70	23+62	LT	229.31			
-L-	10+53	16+78	RT	67.83			
-L-	21+88	26+12	RT	82.10			
-L-	27+11	29+35	RT	40.84			
-L-	30+32	32+29	RT	29.68			
-L-	56+98	56+67	LT	78.55			
-L-	75+81	80+39	LT	547.03			
-L-	98+72	116+94	RT	556.38			
-L-	131+99	151+95	LT	1,121.70			
-L-	180+34	186+35	RT	107.63			
-L-	188+28	190+43	LT	97.14			
-L-	190+89	194+15	LT	177.31			
-Y1-	15+00	17+12	LT	11.95			
-Y1-	19+70	24+90	LT	377.64			
-Y1-	27+83	29+33	LT	38.15			
-Y1-	31+00	33+67	LT	39.20			
DET_S5	13+62	20+15	CL	1,896.52			
DET_S8	13+44	19+44	CL	1,750.41			
DET-DR1A	10+00	13+82	CL	779.91			
TOTAL:				8,029.28			
SAY:				8,030			

Note: 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. DDE = 1,370 CUBIC YARDS
 SELECT GRANULAR MATERIAL, CLASS III = 13,500 CY
 EST. SHALLOW UNDERCUT = 1000 CY
 PER GEOTECH RECOMMENDATION, ESTIMATED 3,850 CUBIC YARDS OF UNDERCUT FOR TOE SHEAR KEY.
 PAVEMENT STRUCTURE VOLUME = 1,103 CY

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

