

12/06/07

COMPUTED BY: T. CAREY DATE: 06-24-13
 CHECKED BY: B. SMITH DATE: 07-01-13

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. R-2915D
 SHEET NO. 3B-3

SUMMARY OF EARTHWORK
 (ALTERNATE PAVEMENT DESIGN 1)
 IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. + %	BORROW	WASTE
-TIE- 14+00.00	17+91.00	4,266	1,036		3,230
SUBTOTALS:		4,266	1,036		3,230
-TIE- 17+91.00 LT	25+44.02 LT	36,500	277		36,223
-L- 464+44.02 LT	483+00.00 LT	26,839	15,312		11,527
-Y27- 14+65.00	18+53.39	52	2,387	2,335	
-Y27A- 10+12.00	11+70.00	2	284	282	
-Y27B- 10+90.00	12+83.78	4,875	51		4,824
SUBTOTALS:		68,268	18,311	2,617	52,574
-L- 483+00.00 LT	515+00.00 LT	90,849	44,757		46,092
SUBTOTALS:		90,849	44,757		46,092
-L- 515+00.00 LT	545+00.00 LT	115,456	41,585		73,871
-Y28- 16+15.00	17+82.70	2	2,485	2,483	
SUBTOTALS:		115,458	44,070	2,483	73,871
-L- 545+00.00 LT	552+00.00 LT	1,227	1,454	227	
SUBTOTALS:		1,227	1,454	227	
-L- 552+00.00 LT	566+00.00 LT	1,213	2,601	1,388	
SUBTOTALS:		1,213	2,601	1,388	
-L- 566+00.00 LT	574+50.00 LT	6,541	1,586		4,955
SUBTOTALS:		6,541	1,586		4,955
-L- 574+50.00 LT	593+00.00 LT	3,736	34,782	31,046	
SUBTOTALS:		3,736	34,782	31,046	
-L- 593+00.00 LT	606+00.00 LT	33,719	1,465		32,254
SUBTOTALS:		33,719	1,465		32,254
-L- 606+00.00 LT	636+00.00 LT	311	2,421	2,110	
SUBTOTALS:		311	2,421	2,110	
-L- 636+00.00 LT	661+00.00 LT	433	1,964	1,531	
SUBTOTALS:		433	1,964	1,531	
-L- 661+00.00 LT	676+29.00 LT	2,160	1,766		394
-Y32- 15+45.00	21+50.00	151	9,462	9,311	
SUBTOTALS:		2,311	11,229	9,311	394
-TIE- 17+91.00 RT	25+44.02 RT	1,377	2,708	1,331	
-L- 464+44.02 RT	483+00.00 RT	159	1,543	1,384	
-Y27C- 10+36.83	12+00.00	15	40	25	
SUBTOTALS:		1,551	4,291	2,741	
-L- 483+00.00 RT	515+00.00 RT	3,196	2,505		691
-Y29- 10+36.03	12+60.00	13	204	191	
SUBTOTALS:		3,209	2,709	191	691

SUMMARY OF EARTHWORK
 (ALTERNATE PAVEMENT DESIGN 1)
 IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. + %	BORROW	WASTE
-L- 515+00.00 RT	545+00.00 RT	171	3,023	2,852	
SUBTOTALS:		171	3,023	2,852	
-L- 545+00.00 RT	552+00.00 RT	3,388	1,783		1,606
SUBTOTALS:		3,388	1,783		1,606
-L- 552+00.00 RT	566+00.00 RT	25,817	18,382		7,435
SUBTOTALS:		25,817	18,382		7,435
-L- 566+00.00 RT	574+50.00 RT	2,760	1,314		1,446
SUBTOTALS:		2,760	1,314		1,446
-L- 574+50.00 RT	593+00.00 RT	135	4,730	4,595	
-DRV1- 10+47.50	11+80.00	2	53	51	
SUBTOTALS:		137	4,783	4,646	
-L- 593+00.00 RT	606+00.00 RT	43,178	3,468		39,710
SUBTOTALS:		43,178	3,468		39,710
-L- 606+00.00 RT	636+00.00 RT	55,709	152,979	97,270	
-Y30- 10+35.51	11+00.00	15	666	651	
SUBTOTALS:		55,724	153,645	97,921	
-L- 636+00.00 RT	661+00.00 RT	53,816	24,400		29,416
-Y31- 10+35.98	11+65.00	4	38	34	
SUBTOTALS:		53,820	24,438	34	29,416
-L- 661+00.00 RT	676+29.00 RT	3,873	21,844	17,971	
-Y32- 22+50.00	29+90.00	1,334	10,472	9,138	
SUBTOTALS:		5,207	32,316	27,109	
-L- 676+29.00	679+90.00	659	895	236	
SUBTOTALS:		659	895	236	
TOTAL:		523,953	416,721	186,442	294,673
LOSS DUE TO CLEARING & GRUBBING:		-10,000			-10,000
ROCK WASTE TO REPLACE BORROW:					
ADJUST FOR ROCK WASTE:					
WASTE IN LIEU OF BORROW:				-186,442	-186,442
PROJECT TOTAL:		513,953	416,721		97,231
GRAND TOTAL:		513,953	416,721		97,231
SAY:		514,000			

-L- & -TIE- PAVEMENT STRUCTURE VOLUME = 20,100 CY
 SHOULDER BORROW = 10,200 CY
 EST. DDE = 6,350 CY
 PER GEOTECH RECOMMENDATIONS (JAN. 22, 2013): EST. SHALLOW UNDERCUT = 1,500 CY
 PER GEOTECH RECOMMENDATIONS (JAN. 22, 2013): EST. UNDERCUT = 500 CY CONTINGENCY,
 TO BE USED AT THE DISCRETION OF THE ENGINEER.
 PER GEOTECH RECOMMENDATIONS (JAN. 22, 2013): EST. SELECT GRANULAR MATERIAL = 3,500 CY

SUMMARY OF EARTHWORK
 (ALTERNATE PAVEMENT DESIGN 2)
 IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. + %	BORROW	WASTE
TOTAL:		515,355	428,184	191,640	278,811
LOSS DUE TO CLEARING & GRUBBING:		-10,000			-10,000
ROCK WASTE TO REPLACE BORROW:					
ADJUST FOR ROCK WASTE:					
WASTE IN LIEU OF BORROW:				-191,640	-191,640
PROJECT TOTAL:		505,355	428,184		77,171
GRAND TOTAL:		505,355	428,184		77,171
SAY:		505,400			

-L- & -TIE- PAVEMENT STRUCTURE VOLUME = 11,700 CY
 SHOULDER BORROW = 4,500 CY

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.

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