

12/06/07

COMPUTED BY: IWB DATE: 08/22/2017  
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PROJECT REFERENCE NO. U-4405  
 SHEET NO. 3B-2

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**EARTHWORK SUMMARY**

**SUMMARY OF EARTHWORK**

LINE	STATION	STATION	UNCL. EXCAV. (CY)	EMB. +% (CY)	BORROW (CY)	WASTE (CY)
-L1-LT	96+00.00	115+65.00	849	3,153	2,304	0
-L-LT	15+65.00	25+00.00	68	1,440	1,372	0
-Y1-	14+20.00	14+76.00	5	51	46	0
BREAK 1 LEFT TOTAL			922	4,644	3,722	0
-L-CL	15+65.00	25+00.00	0	775	775	0
BREAK 1 CENTER TOTAL			0	775	775	0
-L-RT	15+65.00	25+00.00	56	1,274	1,218	0
-Y2-	10+38.50	11+00.00	9	23	14	0
BREAK 1 RIGHT TOTAL			65	1,296	1,231	0
-L-LT	25+50.00	55+00.00	110	4,585	4,475	0
-SR1-	10+95.00	18+64.00	292	620	328	0
-SR2-	10+12.00	12+12.00	12	55	43	0
-SR3-	10+02.00	13+19.00	79	464	385	0
-Y4-LT	17+00.00	18+00.00	72	30	0	42
BREAK 2 LEFT TOTAL			565	5,754	5,231	42
-L-CL	25+50.00	55+00.00	8	4,241	4,233	0
BREAK 2 CENTER TOTAL			8	4,241	4,233	0
-L-RT	25+50.00	55+00.00	186	3,291	3,105	0
-Y4-RT	18+50.00	19+70.00	27	76	49	0
BREAK 2 RIGHT TOTAL			213	3,368	3,155	0
-L-LT	55+50.00	85+00.00	130	13,504	13,374	0
-Y5-LT	19+60.00	21+50.00	43	113	70	0
BREAK 3 LEFT TOTAL			173	13,616	13,443	0
-L-CL	55+50.00	85+00.00	27	5,109	5,082	0
BREAK 3 CENTER TOTAL			27	5,109	5,082	0
-L-RT	55+50.00	85+00.00	374	5,321	4,947	0
-Y5-RT	22+00.00	28+00.00	305	660	355	0
BREAK 3 RIGHT TOTAL			679	5,981	5,302	0
-L-LT	85+50.00	115+00.00	669	2,351	1,682	0
-Y7-	13+20.00	14+18.00	121	23	0	99
-Y9-	12+15.00	13+05.00	12	11	0	1
BREAK 4 LEFT TOTAL			802	2,385	1,682	99
-L-CL	85+50.00	115+00.00	10	1,025	1,015	0
BREAK 4 CENTER TOTAL			10	1,025	1,015	0
-L-RT	85+50.00	115+00.00	133	3,966	3,833	0
-Y6-	10+42.00	11+20.00	0	63	63	0
-Y7-	15+36.00	16+45.00	197	61	0	136
-Y10-	10+54.00	11+45.00	12	10	0	2
BREAK 4 RIGHT TOTAL			342	4,100	3,896	138

PER GEOTECH RECOMENDATIONS DATED : 01-29-16  
 PER PAVEMENT DESIGN RECOMENDATIONS DATED : 07-14-15  
 UNDERCUT = 3,200 CY  
 SHALLOW UNDERCUT = 4,300 CY  
 SELECT GRANULAR MATERIAL = 3,200 CY  
 CLASS IV SUBGRADE STABILIZATION = 9,800 TONS

**SUMMARY OF EARTHWORK**

LINE	STATION	STATION	UNCL. EXCAV. (CY)	EMB. +% (CY)	BORROW (CY)	WASTE (CY)
-L-LT	115+50.00	145+00.00	707	5,419	4,712	0
-Y13-	16+50.00	19+68.00	133	944	811	0
BREAK 5 LEFT TOTAL			840	6,363	5,523	0
-L-CL	115+50.00	145+00.00	42	0	0	42
BREAK 5 CENTER TOTAL			42	0	0	42
-L-RT	115+50.00	145+00.00	1,085	3,481	2,396	0
-Y11-	10+43.00	11+60.00	210	19	0	191
-Y12-	10+42.00	11+50.00	158	33	0	126
BREAK 5 RIGHT TOTAL			1,453	3,533	2,396	317
-L-LT	145+50.00	175+00.00	513	1,115	602	0
-Y15-	11+40.00	11+83.00	33	0	0	33
BREAK 6 LEFT TOTAL			546	1,115	602	33
-L-CL	145+50.00	175+00.00	72	564	492	0
BREAK 6 CENTER TOTAL			72	564	492	0
-L-RT	145+50.00	175+00.00	1,185	2,141	1,556	600
-Y14-	10+45.00	11+45.00	162	5	0	157
-Y16-	10+42.00	11+70.00	3	55	52	0
BREAK 6 RIGHT TOTAL			1,350	2,201	1,608	757
-L-LT	175+50.00	205+00.00	498	564	66	0
BREAK 7 LEFT TOTAL			498	564	66	0
-L-CL	175+50.00	205+00.00	222	3	0	220
BREAK 7 CENTER TOTAL			222	3	0	220
-L-RT	175+50.00	205+00.00	610	1,114	504	0
-Y18-	10+47.00	11+50.00	4	4	0	0
-Y21-	10+43.00	11+10.00	26	11	0	15
BREAK 7 RIGHT TOTAL			640	1,129	504	15
-L-LT	205+50.00	235+00.00	943	3,293	2,350	0
BREAK 8 LEFT TOTAL			943	3,293	2,350	0
-L-CL	205+50.00	235+00.00	37	81	44	0
BREAK 8 CENTER TOTAL			37	81	44	0
-L-RT	205+50.00	235+00.00	769	4,526	3,757	0
-Y23-	10+42.00	11+50.00	37	5	0	32
-Y25-	10+53.00	11+75.00	400	4	0	396
BREAK 8 RIGHT TOTAL			1,206	4,535	3,757	428
-L-LT	235+50.00	265+00.00	1,083	471	0	612
BREAK 9 LEFT TOTAL			1,083	471	0	612

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 EARTHWORK**

LINE	STATION	STATION	UNCL. EXCAV. (CY)	EMB. +% (CY)	BORROW (CY)	WASTE (CY)
-L-CL	235+50.00	265+00.00	96	919	823	0
BREAK 9 CENTER TOTAL			96	919	823	0
-L-RT	235+50.00	265+00.00	472	1,305	833	0
-Y26-	10+42.00	11+60.00	1	80	79	0
-Y28-	10+54.00	11+20.00	13	3	0	11
BREAK 9 RIGHT TOTAL			486	1,388	912	11
-L-LT	265+50.00	294+00.00	716	976	260	0
-Y29-	13+50.00	14+29.00	110	14	0	96
-Y31-	10+50.00	11+57.00	148	1	0	147
-Y36-	10+60.00	11+61.00	9	43	34	0
BREAK 10 LEFT TOTAL			983	1,034	294	243
-L-CL	265+50.00	294+00.00	0	0	0	0
BREAK 10 CENTER TOTAL			0	0	0	0
-L-RT	265+50.00	294+00.00	567	694	127	0
-Y30-	10+54.00	11+15.00	10	16	6	0
-Y35-	10+39.00	11+75.00	26	43	17	0
BREAK 10 RIGHT TOTAL			603	753	150	0
-L-LT	294+50.00	324+00.00	526	434	0	92
-Y40-	12+50.00	13+64.00	27	16	0	11
BREAK 11 LEFT TOTAL			553	450	0	103
-L-CL	294+50.00	324+00.00	18	90	72	0
BREAK 11 CENTER TOTAL			18	90	72	0
-L-RT	294+50.00	324+00.00	190	805	615	0
-Y39-	10+39.00	11+50.00	13	28	15	0
-Y43-	10+25.00	18+43.00	546	133	0	414
-Y44-	10+17.00	12+00.00	15	229	214	0
BREAK 11 RIGHT TOTAL			764	1,194	843	414
-RPB-	10+00.00	34+00.00	2,497	83,293	80,796	0
BREAK 12 TOTAL			2,497	83,293	80,796	0
MATERIAL FOR SHOULDER CONSTRUCTION				8,000	8,000	
<b>PROJECT TOTAL</b>			<b>18,738</b>	<b>165,263</b>	<b>157,997</b>	<b>3,472</b>
WASTE IN LIEU OF BORROW (PHASE 1 AND 2)					-2,611	-2,611
LOSS DUE TO CLEARING AND GRUBBING				-1,000	1,000	
REPLACE TOP SOIL ON BORROW PIT (5%)					7,819	
<b>GRAND TOTAL</b>			<b>17,738</b>	<b>165,263</b>	<b>164,205</b>	<b>862</b>
<b>SAY</b>			<b>18,000</b>		<b>165,000</b>	

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