COMPUTED BY: JCH	DATE: 12-31-2013
CHECKED BY: GSP	DATE: 12-31-2013

PROJECT REFERENCE NO.	SHEET NO.
U-3615B	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

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.

CHAIN	LT / RT	STATION	STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT +%	BORROW	WASTE
PHASE 1								
-L-		169+46.53	178+00.00	133		3,294	3,161	
			SUBTOTAL	133		3,294	3,161	
-L-	LT	178+00.00	207+50.00	940		32,333	31,393	
-Y30-		13+00.00	19+68.28	482		7,740	7,258	
-Y32-		10+55.00	12+51.68	24		1,277	1,253	
-TEMP1-		10+00.00	18+23.31	905		5,312	4,407	
			SUBTOTAL	2,351		46,662	44,311	
-L-	RT	212+00.00	233+23.87 (BEG BRIDGE)	12,084		6,845		5,239
			SUBTOTAL	12,084		6,845		5,239
-L-	RT	234+33.61 (END BRIDGE)	237+28.00 (BEG BRIDGE)			10,676	10,676	
-Y34-		10+50.38	14+96.04	91		4,603	4,512	
			SUBTOTAL	91		15,419	15,188	
-L-	RT	239+38.00 (END BRIDGE)	247+00.00	113		13,236	13,123	
			SUBTOTAL	113		13,236	13,123	
-L-	LT	247+50.00	260+00.00	3,167		1,463		1,704
-Y37N-		14+15.00	16+10.21	27		632	605	
-TEMP2-		10+00.00	14+78.88	493		331		162
-TEMP3-		10+50.00	19+85.54	1,762		1,303		459
			SUBTOTAL	5,449		3,729	605	2,325
-L-	RT	252+00.00	280+00.00	2,129		10,036	9,354	1,447
-Y37S-		10+37.50	11+62.96	176		13		163
-Y38-		10+37.51	11+63.00	117		18		99
-Y40-		10+37.80	11+85.15	37		62	25	
-Y41-		10+37.60	11+75.00	40		54	14	
			SUBTOTAL	2,499		10,183	9,393	1,709
-L-	RT	280+00.00	305+00.00	1,549		9,558	8,547	538
-Y42-		10+37.57	11+74.75	69		97	28	
-Y43S-	RT	10+37.58	11+55.00	30		95	95	30
			SUBTOTAL	1,648		9,750	8,670	568
-L-	RT	305+00.00	335+00.00	2,505		15,115	13,087	477
-Y45S-		10+37.57	11+66.74	16		359	343	
			SUBTOTAL	2,521		15,474	13,430	477
-L-	RT	335+00.00	348+41.04	1,361		472		889
-Y46-		10+41.45	11+39.20	129				129
			SUBTOTAL	1,490		472		1,018
-L-	LT	269+00.00	299+00.00	9,687		404		9,283
-Y43N-		10+40.36	12+55.36	70		66	33	37
-TEMP4-		11+00.00	49+71.19	3,457		553		2,904
			SUBTOTAL	13,214		1,023	33	12,224
-L-	LT	340+00.00	348+41.04	409		840	431	
-TEMP4-		51+21.19	52+31.19	74				74
			SUBTOTAL	483		840	431	74
PHASE 2								
-L-	RT	178+00.00	212+00.00	2,420		17,158	14,738	
-Y30-		19+68.28	21+80.37	49		130	81	
-Y30A-		10+49.52	11+72.72	45		40		5
-Y31-		10+49.64	12+00.00	22		412	390	
			SUBTOTAL	2,536		17,740	15,209	5
-L-	RT	247+00.00	252+00.00	387		626	239	
			SUBTOTAL	387		626	239	

CHAIN	LT / RT	STATION	STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT +%	BORROW	WASTE
PHASE 3								
-L-	LT	207+50.00	233+63.99 (BEG. BRIDGE)	182		22,604	22,422	
-Y33-		12+20.71	13+69.57	19		88	69	
			SUBTOTAL	201		22,692	22,491	
-L-	LT	234+82.19 (END BRIDGE)	237+28.00 (BEG. BRIDGE)			3,521	3,521	
			SUBTOTAL			3,521	3,521	
-L-	LT	239+38.00 (END BRIDGE)	247+50.00	98		6,311	6,213	
-Y35-		10+22.26	14+07.47	17		4,043	4,026	
			SUBTOTAL	115		10,354	10,239	
-L-	LT	260+00.00	269+00.00	38		6,241	6,203	
-Y39-		13+31.00	14+43.73	53		34		19
			SUBTOTAL	91		6,275	6,203	19
-L-	LT	299+00.00	340+00.00	204		19,962	19,760	2
-Y44-		12+00.00	13+41.51	24		97	73	
-Y45N-		11+97.82	12+98.02	3		128	127	2
			SUBTOTAL	231		20,187	19,961	4
PHASE 4								
-L-	MED	201+35.90	212+49.66			3,634	3,634	
-L-	MED	213+75.49	233+00.00	364		4,253	3,889	
			SUBTOTAL	364		7,887	7,522	
-L-	MED	242+72.05	249+61.63	260		964	704	
-L-	MED	252+00.00	261+73.09	178		64		114
-L-	MED	261+73.09	302+64.89	843		2,851	2,240	232
			SUBTOTAL	1,281		3,879	2,944	346
-L-	MED	305+50.57	316+69.07	6		1,980	1,974	
-L-	MED	319+69.94	335+45.11	61		2,819	2,781	23
-L-	MED	337+65.69	348+41.04	76		67		9
			SUBTOTAL	143		4,866	4,755	32
		TOTAL		47,425		224,814	201,429	24,040
		LOSS DUE TO CLEARING & GRUBBING		-2,800			2,800	
		UNCLASS. EXC. FOR HAZARDOUS SPILL BASIN		4,250				4,250
		UNCLASS. EXC. AT BRIDGE (-L- STA. 233+87.56)		1,460				1,460
		WASTE IN LIEU OF BORROW					-23,494	-23,494
		MATERIAL FOR SHOULDER CONSTRUCTION				492	492	
		BORROW FOR HAZARDOUS SPILL BASIN				4,164	4,164	
		PROJECT TOTAL		50,335		229,470	185,391	6,256
		EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					9,327	
		GRAND TOTAL		50,335		229,470	194,661	6,256
		SAY		52,900			205,600	

EST. DDE = 4,530 CUBIC YARDS

EST.SHALLOW UNDERCUT BY STATIONS = 4,343 CUBIC YARDS

CLASS IV SUBGRADE STABILIZATION = 9,140 TONS

SELECT GRANULAR MATERIAL CONTINGENCY = 2,500 CUBIC YARDS

PER GEOTECH RECOMMENDATION, ESTIMATED 2,250 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

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11/26/2014