PROJECT REFERENCE NO.	SHEET NO.
B-5783	3B-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DAVENPORT
119 BROOKSTOWN AVENUE, SUITE PH1
WINSTON-SALEM, NC 27101
336.744.1636 www.davenportworld.com
NCBELS FIRM LICENSE NO. C-2522

SUMMARY OF EARTHWORK
(IN CUBIC YARDS)

STATION	STATION	UNCL. EXCAV.	EMBANK. %	BORROW	WASTE
9+50.00 -EL-	17+00.00 -EL-	1,597	3,971	2,374	
17+00.00 -EL-	20+00.00 -EL-	47	5,392	5,345	
22+50.00 -EL-	30+00.00 -EL-	367	5,194	4,827	
30+00.00 -EL-	32.50.00 -EL-	225	73	0	152
10+00.00 -RPC-	14+15.00 -RPC-	195	61	0	134
10+00.00 -DET A/B-	14+15.00 -RPC-	0	8	8	
10+00.00 -DET C/D-	14+15.00 -RPC-	0	5	5	
SUBTOTALS:		2,430	14,702	12,557	286
MATERIAL FOR SHOULDER CONST.			1,365	1,365	
LOSS DUE TO CLEARING & GRUBBING:		-350		350	
UNSUITABLE WASTE		150			150
WASTE IN LIEU OF BORROW				-286	-286
GRAND TOTALS:		2,230	16,066	14,685	150
SAY:		2,300		14,700	
EST. CONTINGENCY UNDERCUT = 600 CU. YD. EST. SHALLOW UNDERCUT = 200 CU. YD.					
EST. SELECT GRANULAR MATERIAL = 600 CU. YD					

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

ASPHALT PAVEMENT REMOVAL SUMMARY

STATION	STATION	LOCATION	AREA SQ FT	AREA SQ YD
12+75 ± -NBL-	13+50 ± -NBL-	APPROACH	2,625	291.67
28+50 ± -NBL-	30+00 ± -NBL-	TRAILING	4,350	483.33
13+00 ± -SBL-	13+50 ± -SBL-	APPROACH	1,600	177.78
29+00 ± -SBL-	30+50 ± -SBL-	TRAILING	4,500	500.00
10+50 ± -RPC-	13+50 ± -RPC-	ALL	2,400	266.67
10+00 ± -DET A/B-	14+90 ± -DET A/B-	ALL	490	54.44
10+00 ± -DET C/D-	14+90 ± -DET C/D-	ALL	490	54.44
SUBTOTAL:				1,828.33
SAY:				1,830

SHOULDER BERM GUTTER SUMMARY
(IN LINEAR FEET)

SURVEY LINE	STATION	STATION	LOCATION	LENGTH
-EL-	17+74.00	19+66.32	RT	192.3
-EL-	19+42.95	19+96.96	MED-RT	54.0
-EL-	19+42.99	20+09.62	MED-LT	66.6
-EL-	18+64.00	20+41.32	LT	177.3
-EL-	22+26.86	25+09.81	RT	283.0
-EL-	22+58.02	23+25.00	MED-RT	67.0
-EL-	22+69.50	23+25.00	MED-LT	55.5
-EL-	23+01.41	27+05.01	LT	403.6
			TOTAL:	1,299.3
			SAY:	1,300

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY
(IN LINEAR FEET)

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	B-77	GREU TL-3	M-350	III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG				
-NBL-	16+53.85	19+66.35	RT	262.50			19+00.00	19+66.35	10	13	50					1	1											262.50		
-NBL-	22+26.29	25+51.29	RT	325.00			22+26.29	25+50.00	8	11						1				1								112.5		
-NBL-	16+85.00	19+95.00	MED-LT	260.00				19+95.00	VAR							1	1											260.00		
-NBL-	22+58.18	32+70.68	MED-LT	1012.50			22+58.18	32+70.68	4	7						1												1012.50		
-SBL-	4+80.00	17+00.00	MED-RT	0		1220.00	4+80.00	17+00.00	4	6																		1220.00		
-SBL-	18+56.00	20+37.00	LT	174.75			18+50.00	20+37.00	8	11						1				1								139.75		
-SBL-	23+05.00	31+30.00	LT	775.00			23+05.00	29+50.00	10	13		50				1	1											445.00		
-SBL-	17+00.00	20+09.00	MED-RT	309.00					4	7						1												309.00		
-SBL-	22+69.51	32.+69.51	MED-RT	1000.00					4	7						1												1000.00		
SUBTOTAL				4118.75		1220.00																								
LESS ANCHOR DEDUCTIONS (8 B-77, 3 TL-3, 2 CAT-1)				-312.50																										
TOTAL				3806.25		1220.00			52	75	50	50				8	3			2								4760.75		
SAY				3812.50		1225.00																						4800.00		
ADDITIONAL GUARDRAIL POSTS = 5 EACH																														

TEMPORARY GUARDRAIL SUMMARY

-SBL-	3+82.00		RT																				1						535	
-SBL-	9+15.00		RT														1													
-SBL-	27+13.50		RT																				1							
-NBL-	32+00.00		LT													1													1070	
-SBL-	3+82.00		RT													1													535	
-SBL-	9+15.00		RT																				1							
-NBL-	26+48.50		LT														1													
-SBL-	32+00.00		RT																				1						1070	
TOTAL																2	2						4						3210	

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