COMPUTED BY: RLC DATE: 4/11/2014
CHECKED BY: AEV DATE: 6/18/2015

PROJECT REFERENCE NO.	SHEET NO.
B-3159	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Note: Approximate quantities only. Unclassified Excavation, Shoulder Borrow, 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."

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
–L– 7+50.00	–L– 12+66.97	26	4,338	4,312	0
–RPC– 14+40.28	–RPC– 20+71.61	19,080	1,526	0	17,554
–LPC– 13+50.00	–LPC– 15+38.00	2,352	0	0	2,352
–Y2– 10+00.00	–Y2– 10+53.13	158	8	0	150
SUBTOTALS:		21,616	5,872	4,312	20,057
–L– 14+16.47	–L– 21+25.00	175	8,297	8,122	0
–RPA– 13+50.00	–RPA– 21+61.41	38,148	104	0	38,045
–LPA– 13+90.00	–LPA– 16+67.00	11,127	0	0	11,127
–Y7– 16+20.00	–Y7– 18+53.57	4,256	0	0	4,256
SUBTOTALS:		53,706	8,401	8,122	53,428
–Y– 11+50.00	–Y– 39+50.00	42,525	468	0	42,057
SUBTOTALS:		42,525	468	0	42,057
–TCP–RPB– 10+50.00	–TCP–RPB– 12+66.91	157	436	279	0
SUBTOTALS:		157	436	279	0
PROJECT TOTALS:		118,004	15,177	12,712	115,541
WASTE TO REPLACE BORROW				–12,712	–12,712
LOSS DUE TO CLEARING & GRUBBING		–700			–700
GRAND TOTALS:		117,304	15,177	0	102,129
SAY:		117,400			

SHOULDER BORROW = 3,250 CY

"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

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 LINK FENCE, 48" FABRIC SUMMARY

SURVEY LINE	STATION	STATION	LOCATION	FABRIC LENGTH LF	END BRACE	CORNER BRACE	LINE BRACE	LINE POSTS	TERMINAL POSTS
–L–	8+53.81	9+18.32	LT	64.75	1	1	1	6	3
–L–	10+52.53	12+07.93	RT	225.25	1	1	1	19	3
–L–	18+05.35	19+28.79	RT	186.65	1	2	2	17	5
–Y–	15+00.00	26+35.67	LT	1,156.33	2	8	7	99	17
–Y–	28+46.95	29+06.92	RT	59.02	1	1	1	6	3
–Y7–	10+61.14	12+13.51	LT	152.38	1	0	1	13	2
–RPA–	10+02.82	20+63.28	RT	1,094.51	0	5	6	94	11
–RPC–	11+25.00	20+19.00	RT	874.37	1	5	6	75	12
–Y–	24+39.00	26+37.38	RT	198.38	2	0	1	17	3
		TOTAL:		4,011.64	10	23	26	346	59
		SAY:		4,050				346	59

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
–L–	11+50.00	12+00.00	LT	222.60
–L–	17+50.00	18+50.00	LT	451.50
	EXISTING RAMP /LOOP B		CL	2,770.77
	EXISTING RAMP C		CL	1,661.95
	EXISTING RAMP /LOOP A		CL	1,693.41
	EXISTING RAMP D		CL	1,357.38
	SERVICE ROAD		CL	2,211.08
	8TH STREET		CL	1,269.94
	VIRGINIA DRIVE		CL	765.94
	WHITE STREET		CL	1,063.37
	PIEDMONT DRIVE		CL	1,545.83
TEMPORARY PAVEMENT TO BE REMOVED				
–TCP–RPB–	RAMP B /LOOP B CONNECTOR		CL	1,219.57
–L–	11+00.00	12+52.00	RT	67.56
–L–	14+30.00	15+05.00	RT	33.33
–Y–	20+85.00	25+97.00	MED	227.56
–Y–	22+90.00	29+96.00	MED	313.78
		TOTAL:		16,875.57
		SAY:		16,900

SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
–L–	12+00.00	12+53.58	LT	219.91
–L–	14+29.48	17+50.00	LT	1,628.12
–L–	15+02.99	17+50.00	CL	552.02
		TOTAL:		2,400.05
		SAY:		2,500

SUMMARY OF EXISTING CONCRETE PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
–L–	8+86.14	9+02.83	LT	13.05
–L–	8+85.10	9+25.27	LT	60.43
–L–	9+73.78	10+01.54	LT	69.99
–L–	10+23.45	10+38.32	CL	23.23
–L–	9+78.82	10+41.68	RT	174.82
–L–	PARKING LOT IN QUADRANT A		RT	4,938.47
		TOTAL:		5,279.98
		SAY:		5,350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH: STRAIGHT	LENGTH: SHOP CURVED	LENGTH: DOUBLE FACED	WARRANT POINT: APPROACH END	WARRANT POINT: TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH: APPROACH END	FLARE LENGTH: TRAILING END	W: APPROACH END	W: TRAILING END	ANCHORS: XI MOD	ANCHORS: GRAU 350 TL-2	ANCHORS: GRAU 350 TL-3	ANCHORS: TEMP. W-BEAM	ANCHORS: TERM. END SECTION	ANCHORS: CAT-1	ANCHORS: TYPE III	ANCHORS: B-77	ANCHORS: AT-1	IMPACT ATTENUATOR TYPE 350: EA	IMPACT ATTENUATOR TYPE 350: G	IMPACT ATTENUATOR TYPE 350: NG	SINGLE FACED BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
–L–	10+73.47	12+66.97 (BRIDGE)	RT	193.50			12+66.97 (BRIDGE)		15.5	18.5	50		1				1				1									
–L–	14+16.47 (BRIDGE)	14+97.72	RT	81.25				14+16.47 (BRIDGE)	15.5	18.5		50		1			1				1									
–L–	11+85.72	12+66.97 (BRIDGE)	LT	81.25			12+66.97 (BRIDGE)		7.5	10.5	50		1				1				1									
–L–	14+16.47 (BRIDGE)	15+97.72	LT	181.25				14+16.47 (BRIDGE)	7.5	10.5		157.25		3.15			1				1									
–Y–	11+49.50	24+87.00	RT MED	1,337.50			24+87.00		8.5	10.5												1						1,564.49		
–Y–	24+87.00	25+95.00	RT MED																								108	108		
–Y–	25+95.00	39+01.25	RT MED	1,306.25				25+95.00	8.5	10.5												1						1,463.87		
–Y–	11+49.50	24+87.00	LT MED	1,337.50				24+87.00	8.5	10.5												1						1,337.50		
–Y–	24+87.00	25+95.00	LT MED																								108	108		
–Y–	25+95.00	39+01.25	LT MED	1,306.25			25+95.00		8.5	10.5												1						1,526.21		
–Y–	16+75.00	19+87.50	LT	312.50				16+75.00	12	15	150		3				1											385.20		
–Y–	37+93.75	39+00.00	LT	106.25			39+00.00		12	15													1							
–Y–	23+57.75	24+39.00	RT	81.25			24+39.00		20	23	50		1				1					1						154.38		
–Y–	24+39.00	26+37.38	RT																								198.38			
–Y–	24+42.00	26+35.67	LT																								193.67			
–Y–	26+35.67	27+16.92	LT	81.25			26+35.67		20	23	50		1				1					1						138.26		
–Y7–	14+00.00	16+00.00	LT	200.00			14+50.00	15+50.00	4	7	25	25	0.5	0.5		2														
BARRICADE	ROCHELLE DRIVE			37.50															2											
BARRICADE	8TH STREET			37.50															2											
BARRICADE	SERVICE ROAD			37.50															2											
BARRICADE	VIRGINIA DRIVE			37.50															2											
–L–	EXISTING BRIDGE																	2												
			PROJECT TOTALS	6,756.00												2	7	2	8		4	6	1				608.05			
			ANCHOR DEDUCTIONS																											
		(2) GRAU 350 TL-2 @ 25' EACH =		–50.00																										
		(7) GRAU 350 TL-3 @ 50' EACH =		–350.00																										
		(4) TYPE III @ 18.75' EACH =		–75.00																										
		(6) B-77 @ 18.75' EACH =		–112.50																										
		(1) AT-1 @ 6.25' EACH =		–6.25																										
			GRAND TOTALS	6,162.25												2	7	2	8		4	6	1				608.05	6,785.91		
			SAY	6,225			ADDITIONAL GUARDRAIL POSTS = 5									2	7	2	8		4	6	1				625	6,800		

12/06/07
$$$$USERNAME$$$$
12-AUG-2015 10:40
R:\Roadway\Proj\B3159_Rdy_sum_03B-1.dgn