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COMPUTED BY:	P. LIVINGSTON	DATE:	6/25/2017
CHECKED BY:	S. STEPHENS	DATE:	6/29/2017

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
U-4751	3B-2

"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

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

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 CONCRETE BARRIER	DOUBLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU, TL-3	TEMP GREU, TL-3	CAT-1	AT-1	B-77	G	NG					
L	28+62.50	37+57.00	LT	137.50				30+00.00	10.00	10' BERM							1		1			757.00				
L	29+08.35	38+41.00	RT	493.75			30+75.00		10.00	13.00	50.00		1.00		1				1			441.00				
L	35+31.00	36+46.00	RT																					128.00		
L	39+55.00	41+77.05	LT	218.75			39+55.00		8.00	10' BERM	50.00		1.00		1				1							
Y1	41+21.38	44+48.00	RT	193.75			43+15.00		12.00	12' BERM	50.00		1.00		1				1			133.00				
Y1	40+65.54	44+96.78	MED RT	431.25			42+50.00	44+90.00	0.75	10.75	50.00		1.00		1		1							98.00		
Y1	42+43.75	46+75.00	MED LT	431.25			44+90.00	42+50.00	0.75	10.75	50.00		1.00		1		1									
Y1	43+11.00	48+23.74	LT	143.75			46+80.00		12.00	12' BERM	50.00		1.00		1				1			369.00				
Y1	49+85.00	51+07.00	RT																					128.00		
Y1	50+67.00	52+09.00	LT																					142.00		
Y1	50+43.75	52+00.00	LT	131.25			50+50.00		12.00	12' BERM					1		1									
Y1LPB	17+73.26	19+93.57	RT						6.25	12.00											2		230.00			T-TYPE
L	52+63.00	55+56.25	MED RT	293.75			55+50.00		0.75	10' BERM	50.00		1.00		1		1									
L	55+43.75	55+56.25	MED LT	281.25			55+50.00		0.75	10' BERM	50.00		1.00		1		1									
L	54+11.84	58+25.00	LT	875.00				57+00.00	10.00	13.00							1		1							
L	56+42.62	62+23.87	RT	581.25			57+60.00		10.00	13.00	50.00		1.00		1				1							
L	63+26.87	68+76.87	RT	550.00				68+65.00	10.00	13.00							1		1							
L	63+88.83	68+82.57	LT	493.75			68+50.00		10.00	13.00	50.00		1.00		1				1							
L	70+00.22	90+10.60	RT	293.75			71+44.00	90+00.00	13.50	18.5' BERM					1		1		2			1666.00				
L	80+23.57	82+06.25	MED RT	181.25			82+00.00		0.75	10' BERM	50.00		1.00		1		1									
L	81+93.75	84+60.43	MED LT	268.75			82+00.00		2.00	10' BERM	50.00		1.00		1		1									
L	84+10.40	92+26.33	LT						13.50	16' BERM												901.00				
L	92+91.45	111+68.11	LT						13.50	16' BERM												1876.00				
L	93+91.15	97+81.15	RT						13.50	16' BERM											1	390.00				
L	100+12.47	107+64.53	RT						13.50	16' BERM												795.00				
L	112+31.70	127+58.00	RT	1518.75					14.00	16' BERM	50.00		1.00		1		1									
L	112+67.84	127+27.96	LT						13.50	16' BERM											1	1476.00				
L	128+33.75	158+98.34	LT	143.75			157+54.96		14.00	16' BERM	50.00		1.00		1				1			2882.00				
L	129+24.09	140+66.69	RT						13.50	16' BERM												1143.00				
L	148+33.12	151+56.09	RT	331.25			149+40.00	150+70.00	16.50	16.5' BERM	50.00		1.00		1		1									
L	163+25.00	167+56.25	MED RT	431.25			167+50.00		0.75	10' BERM	50.00		1.00		1		1									
L	167+46.25	169+65.00	MED LT	218.75			167+50.00		0.75	10' BERM	50.00		1.00		1		1									
Y18	12+85.87			12.50																						
Y18	17+80.56			50.00																						2 - TERMINAL END SECTIONS
Y19	20+96.85			37.50																						2 - TERMINAL END SECTIONS
L	222+85.46	224+90.61	MED LT	193.75				224+90.61	4.00	14.00		162.50		6.90	1				1							
L	226+93.28	228+21.99	LT	131.25			226+93.28		6.00	16.00	50.00		1.00		1				1							
L	226+96.96	229+26.88	MED LT	218.75			226+96.96		4.00	23.00	187.50		16.00		1				1							
Y8RPC	23+93.75	33+50.00	LT	956.25			32+30.00	23+93.75	14.00	17.00	50.00		1.00		1		1									
Y8RPD	10+46.63	22+08.28	RT	1143.75			12+00.00	22+00.00	14.00	17.00	50.00		1.00		1		1									
Y8RPDB	32+46.97	34+00.67	RT	156.25			34+00.67		4.00	7.00	137.50		2.75		1				1							
Y8RPDB	32+49.12	34+08.88	LT	156.25			34+08.88		10.00	13.00	137.50		4.35		1				1							
Y8	90+42.82	93+57.50	MED RT	243.75			91+20.00	93+50.00	19.50	23.00	37.50	125.00	2.25	7.50			1		2	1		50.00				
Y8	90+42.82	96+13.75	MED LT	500.00			93+50.00	99+40.00	19.50	23.00	125.00	37.50	7.50	2.25	1				2			50.00				
Y8	98+62.82	100+67.18	MED	225.00			99+40.00	99+90.00	19.50	23.00	37.50	37.50	2.25	2.25					4	2		100.00				
			SUBTOTAL	12668.75																						
LESS ANCHOR DEDUCTIONS		GREU, TL3 (27 @ 50.00')		-1350.00																						
		CAT-1 (18 @ 6.25')		-112.50																						
		B-77 (25 @ 18.75')		-468.75																						
			TOTAL	**10737.50**											27		18		25	3	4	13029.00	230.00	496.00		
			SAY	**10737.50**																						
10 ADDITIONAL GUARDRAIL POSTS																										
TEMPORARY GUARDRAIL																										
Y2	12+70.00	16+50.00	RT	380.00			13+98.00	15+36.00	4.33	0.00	50.00	50.00	1.00	1.00		2										
Y2	13+00.00	16+95.00	LT	395.00			14+20.00	15+49.00	4.91	4.00	50.00	50.00	1.00	1.00		2										
			SUBTOTAL	775.00																						
LESS ANCHOR DEDUCTIONS		GREU, TL3 (4 @ 50.00')		-200.00																						
			TOTAL	**575.00**																						
			SAY	**575.00**												4										