

COMPUTED BY: EAD DATE: 01-06-05
 CHECKED BY: DWG DATE: 01-12-05

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. R-4404
 SHEET NO. 3-A

"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

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W	ANCHORS						CONCRETE BARRIER			WIRE ROPE SAFETY FENCE	REMOVE AND RESET EXISTING GRAU-350	REMOVE EXISTING CABLE GUIDERAIL	REMOVE EXISTING GUARDRAIL	REMARKS			
				STRAIGHT	SHOP CURVED	CABLE GUIDERAIL	APPROACH END	TRAILING END			APPROACH END	TRAILING END		APPR END	TRAIL END	GRAU 350	CAT-1	AT-1	M-350	TYPE B-77	TYPE BP III	CABLE ANCHOR (WRSF)						T-XI	M-XII	A-XI
SEGMENT A																														
NC 147	I-85	ROLLING HILL RD	LT	50'																							50'	REPLACE EXISTING ANCHOR WITH A GRAU-350		
NC 147	I-85	ROLLING HILL RD	MEDIAN LT	2425'				8																			225'			
NC 147	I-85	ROLLING HILL RD	MEDIAN RT	2525'				8																			275'			
NC 147	ROLLING HILL RD	US 15-501 BYP	LT	100'																							100'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	ROLLING HILL RD	US 15-501 BYP	MEDIAN LT	3100'				8																			600'			
NC 147	ROLLING HILL RD	US 15-501 BYP	MEDIAN RT	3100'				8																			600'			
NC 147	ROLLING HILL RD	US 15-501 BYP	RT	250'																							250'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	US 15-501 BYP	HILLANDALE ST	LT	50'																							50'	REPLACE EXISTING ANCHOR WITH A GRAU-350		
NC 147	US 15-501 BYP	HILLANDALE ST	MEDIAN LT	4175'				8																			725'			
NC 147	US 15-501 BYP	FULTON ST	MEDIAN RT	4175'				8																			750'			
NC 147	US 15-501 BYP	FULTON ST	RT	50'																							50'	REPLACE EXISTING ANCHOR WITH A GRAU-350		
NC 147	HILLANDALE ST	ERWIN RD	LT	250'																							250'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	HILLANDALE ST	ERWIN RD	MEDIAN LT	4825'				8																			775'			
NC 147	FULTON ST	ERWIN RD	MEDIAN RT	4825'				8																			725'			
NC 147	FULTON ST	ERWIN RD	RT	200'																							200'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	ERWIN RD	CAMPUS DRIVE	LT	50'																							50'	REPLACE EXISTING ANCHOR WITH A GRAU-350		
NC 147	ERWIN RD	CAMPUS DRIVE	MEDIAN LT	1862.5'				8																			375'			
NC 147	ERWIN RD	CAMPUS DRIVE	MEDIAN RT	1862.5'				8																			550'			
NC 147	CAMPUS DRIVE	BUCHANON BLVD	LT	50'																							50'	REPLACE EXISTING ANCHOR WITH A GRAU-350		
NC 147	CAMPUS DRIVE	BUCHANON BLVD	MEDIAN LT	1262.5'				8																			187.5'			
NC 147	CAMPUS DRIVE	BUCHANON BLVD	MEDIAN RT	1262.5'				8																			187.5'			
NC 147	CAMPUS DRIVE	BUCHANON BLVD	RT	50'																							50'	REPLACE EXISTING ANCHOR WITH A GRAU-350		
NC 147	BUCHANON BLVD	BLACKWELL ST	LT	850'																							150'	REPLACE EXISTING ANCHOR WITH A GRAU-350		
NC 147	BUCHANON BLVD	BLACKWELL ST	MEDIAN LT	4000'				8																			1837.5'			
NC 147	BUCHANON BLVD	BLACKWELL ST	MEDIAN RT	4000'				8																			1950'			
NC 147	BUCHANON BLVD	BLACKWELL ST	RT	150'																							150'	REPLACE EXISTING ANCHOR WITH A GRAU-350		
NC 147	BLACKWELL ST	US 15-501 NBL	LT	100'																							100'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	BLACKWELL ST	US 15-501 NBL	MEDIAN LT	1150'																							425'			
NC 147	BLACKWELL ST	US 15-501 NBL	MEDIAN RT	1300'																							725'			
NC 147	BLACKWELL ST	US 15-501 NBL	RT	100'																							100'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	US 15-501 NBL	RAMSEUR ST	LT	100'																							100'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	US 15-501 NBL	RAMSEUR ST	MEDIAN LT	1100'				8																			150'			
NC 147	US 15-501 NBL	RAMSEUR ST	MEDIAN RT	1100'				8																			100'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	US 15-501 NBL	RAMSEUR ST	RT	100'																							100'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	RAMSEUR ST	BACON ST	LT	100'																							100'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	RAMSEUR ST	BACON ST	RT	175'																							175'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	BACON ST	RIDGE ROAD	LT	400'																							400'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	BACON ST	RIDGE ROAD	RT	100'																							100'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	RIDGE ROAD	ELLIS ROAD	LT	625'																							625'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	RIDGE ROAD	ELLIS ROAD	MEDIAN LT	100'																							100'	REPLACE GUIDERAIL NORTH OF GLOVER DRIVE WITH (WRSF)		
NC 147	RIDGE ROAD	ELLIS ROAD	MEDIAN RT	100'																							100'	REPLACE EXISTING ANCHORS WITH A M-350		
NC 147	RIDGE ROAD	ELLIS ROAD	RT	1000'																							1000'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	ELLIS ROAD	SOUTH OF NC 54	LT	150'																							150'	REPLACE EXISTING ANCHORS WITH A GRAU-350		
NC 147	ELLIS ROAD	SOUTH OF NC 54	MEDIAN LT	2287.5'				8																			437.5'	REMOVE & RESET EXISTING GRAU-350		
NC 147	ELLIS ROAD	SOUTH OF NC 54	MEDIAN RT	1925'				8																			275'	REMOVE & RESET EXISTING GRAU-350		
SEGMENT A SUB-TOTAL				57512.50'																										
LESS DEDUCTIONS FOR MEDIAN OPENINGS AND ANCHOR UNITS																														
OPENINGS 24 @ 20' =				-480'																										
GRAU-350 67 @ 50' =				-3350'																										
CAT-1 27 @ 6.25' =				-168.75'																										
M-350 14 @ 37.5' =				-525'																										
TYPE B-77 1 @ 18.75' =				-18.75'																										
TYPE BP III 7 @ 30' =				-210'																										
TOTAL SEGMENT A				52,760'																										
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