COMPUTED BY:	MCP	DATE:	10/18/2024
CHECKED BY:	AR	DATE:	11/5/2024

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
HI-0018	3B-1

"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 TL-3		SINGLE 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	CAT-1	AT-1	B-77	TYPE-III					G	NG				
-l74EBL-	75+55.01	78+06.20	RT	262.500											1	1											262.5		
-l74EBL-	82+86.82	84+58.32	RT	175.000											1	1											175.0		
-l74EBL-	167+63.10	170+63.07	LT (Med)	300.000											1			1									200.0		
-l74EBL-	167+62.92	169+09.42	RT	150.000											1												50.0		
-l74EBL-	206+97.56	208+88.95	LT (Med)	200.000			MATCH EXISTING						MATCH EXISTING		1												50.0		
-l74EBL-	206+96.21	208+33.11	RT	137.500											1												50.0		
-l74EBL-	211+83.54	213+44.63	RT	162.500												1		1									162.5		
-l74EBL-	795+27.60	797+20.94	LT (Med)	200.000											1												50.0		
-l74EBL-	838+36.59	840+25.14	LT (Med)	200.000											1												50.0		
			SUBTOTAL	1787.50											8	3		2									1,050.0		
-l74WBL-	76+46.34	79+11.24	LT	275.000											1	1											275.00		
-l74WBL-	165+49.46	170+89.55	LT	550.000												1		1									550.00		
-l74WBL-	174+56.40	175+91.83	LT	137.500											1												50.00		
-l74WBL-	174+57.46	175+91.83	RT (MEDIAN)	137.500											1												50.00		
-l74WBL-	189+64.21	190+88.68	LT	125.000			MATCH EXISTING						MATCH EXISTING		1	1											125.00		
-l74WBL-	214+04.18	215+38.18	LT	137.500											1												50.00		
-l74WBL-	213+54.25	215+38.72	RT (MEDIAN)	187.500											1												50.00		
-l74WBL-	806+57.98	808+47.98	RT (MEDIAN)	200.000											1												50.00		
-l74WBL-	844+14.25	846+01.78	RT (MEDIAN)	200.000											1												50.00		
			SUBTOTAL	1,950.000											8	3		1									1,250.00		
LESS DEDUCTIONS FOR ANCHORS			GREU TL-3 (16@50')=	-800.000																									
			CAT-1 (6@6.25')=	-37.500																									
			B-77 (3@22.875')=	-68.625																									
			PROJECT TOTAL	2,831.4											16	6		3									2,300.0		
			SAY	2,837.5																									
ADDITIONAL GUARDRAIL POSTS = 25 EA.																													

HI-0018
Asphalt Wedging Summary

LINE	STATION TO STATION		Pavement Layers/Type	Full Wedge Depth (IN)	S9.5C TONS
EBL	794+00.00	795+50.00	1 Lift of 1.5" S9.5C	1.50	6.57
EBL	797+50.00	798+00.00	1 Lift of 1.5" S9.5C	1.50	0.11
EBL	808+00.00	811+00.00	1 Lift of 1.5" S9.5C	1.50	22.26
EBL	811+00.00	815+50.00	1 Lift of 1.75" S9.5C	1.75	154.07
EBL	815+50.00	817+50.00	1 Lift of 1.5" S9.5C	1.50	35.75
EBL	817+50.00	834+50.00	2 Lifts of 1.5" S9.5C	3.00	820.20
EBL	834+50.00	840+00.00	1 Lift of 1.5" S9.5C	1.50	120.47
EBL	848+50.00	854+00.00	1 Lift of 1.5" S9.5C	1.50	93.27
EBL	854+00.00	856+00.00	1 Lift of 1.8" S9.5C	1.80	71.14
EBL	856+00.00	866+00.00	1 Lift of 2" S9.5C	2.00	233.68
WBL	793+00.00	794+50.00	1 Lift of 1.5" S9.5C	1.50	10.50
WBL	807+50.00	812+50.00	1 Lift of 1.8" S9.5C	1.80	155.42
WBL	812+50.00	819+50.00	1 Lift of 1.5" S9.5C	1.50	175.52
WBL	819+50.00	829+00.00	2 Lifts of 1.5" S9.5C	3.00	431.61
WBL	829+00.00	832+50.00	1 Lift of 1.5" S9.5C	1.50	52.41
WBL	832+50.00	834+50.00	1 Lift of 1.6" S9.5C	1.60	63.40
WBL	834+50.00	840+00.00	1 Lift of 1.5" S9.5C	1.50	131.97
WBL	844+50.00	853+00.00	1 Lift of 1.5" S9.5C	1.50	108.39
WBL	853+00.00	860+50.00	1 Lift of 1.65" S9.5C	1.65	244.13
WBL	860+50.00	868+50.00	1 Lift of 1.5" S9.5C	1.50	131.90
				TOTAL =	3,063

HI-0018
Milling Transition Summary

Alignment	Station	SE	Station	SE	Notes	Alignment	Station	SE	Station	SE	Notes
-WBL-	83+00.00	0.02	93+53.47	0.02	For SE in Curve	-EBL-	82+77.64	0.02	93+24.66	0.02	For SE in Curve
-WBL-	93+53.47	0.02	93+78.47	0.025	Transition to Tangent	-EBL-	93+24.66	0.02	93+49.66	0.025	Transition to Tangent
-WBL-	93+78.47	0.025	135+29.62	0.025	Tangent	-EBL-	93+49.66	0.025	135+00.81	0.025	Tangent
-WBL-	135+29.62	0.025	135+54.62	0.02	Transition to Curve	-EBL-	135+00.81	0.025	135+25.81	0.02	Transition to Curve
-WBL-	135+54.62	0.02	141+52.88	0.02	For SE in Curve	-EBL-	135+25.81	0.02	141+28.10	0.02	For SE in Curve
-WBL-	141+52.88	0.02	141+77.88	0.025	Transition to Tangent	-EBL-	141+28.10	0.02	141+53.10	0.025	Transition to Tangent
-WBL-	141+77.88	0.025	170+45.34	0.025	Tangent	-EBL-	141+53.10	0.025	169+72.16	0.025	Tangent
-WBL-	170+45.34	0.025	170+70.34	0.02	Bridge No. 54 Approach	-EBL-	169+72.16	0.025	169+97.16	0.02	Bridge No. 53 Approach
-WBL-	173+07.96	0.02	173+32.96	0.025	Bridge No. 54 Trailing	-EBL-	173+33.11	0.02	173+58.11	0.025	Bridge No. 53 Trailing
-WBL-	173+32.96	0.025	210+18.19	0.025	Normal Crown	-EBL-	173+58.11	0.025	209+51.20	0.025	Normal Crown
-WBL-	210+18.19	0.025	210+43.19	0.02	Bridge No. 382 Approach	-EBL-	209+51.20	0.025	209+76.20	0.02	Bridge No. 381 Approach
-WBL-	212+63.14	0.02	212+88.14	0.025	Bridge No. 382 Trailing	-EBL-	212+00.00	0.02	212+25.00	0.025	Bridge No. 381 Trailing
-WBL-	212+88.14	0.025	359+97.80	0.025	Tangent/ Normal Crown	-EBL-	212+25.00	0.025	359+44.92	0.025	Tangent/ Normal Crown
-WBL-	359+97.80	0.025	360+22.80	0.02	Transition to Curve	-EBL-	359+44.92	0.025	359+69.92	0.02	Transition to Curve
-WBL-	360+22.80	0.02	406+98.31	0.02	For SE in Curve	-EBL-	359+69.92	0.02	406+82.19	0.02	For SE in Curve
-WBL-	406+98.31	0.02	407+23.31	0.025	Transition to Tangent	-EBL-	406+82.19	0.02	407+07.19	0.025	Transition to Tangent
-WBL-	407+23.31	0.025	603+88.65	0.025	Tangent/ Normal Crown	-EBL-	407+07.19	0.025	603+75.00	0.025	Tangent/ Normal Crown
-WBL-	603+88.65	0.025	604+13.65	0.02	Match Exist	-EBL-	603+75.00	0.025	604+00.00	0.02	Match Exist
-WBL-	715+24.83	0.04	734+77.29	0.04	For SE in Curve	-EBL-	715+00.00	0.04	734+21.74	0.04	For SE in Curve
-WBL-	734+77.29	0.04	735+52.29	0.025	Transition to Tangent	-EBL-	734+21.74	0.04	734+96.74	0.025	Transition to Tangent
-WBL-	735+52.29	0.025	774+49.19	0.025	Tangent	-EBL-	734+96.74	0.025	772+89.21	0.025	Tangent
-WBL-	774+49.19	0.025	776+24.19	0.06	Transition to Curve	-EBL-	772+89.21	0.025	774+14.21	0.05	Transition to Curve
-WBL-	776+24.19	0.06	791+35.95	0.06	For SE in Curve	-EBL-	774+14.21	0.05	790+87.75	0.05	For SE in Curve
-WBL-	791+35.95	0.06	793+10.95	0.025	Transition to Tangent	-EBL-	790+87.75	0.05	792+12.75	0.025	Transition to Tangent
-WBL-	793+10.95	0.025	798+29.59	0.025	Tangent	-EBL-	792+12.75	0.025	798+02.59	0.025	Tangent
-WBL-	798+29.59	0.025	798+54.59	0.02	Bridge No. 384 Approach	-EBL-	798+02.59	0.025	798+27.59	0.02	Bridge No. 383 Approach
-WBL-	799+69.31	0.02	799+94.31	0.025	Bridge No. 384 Trailing	-EBL-	799+41.73	0.02	799+66.73	0.025	Bridge No. 383 Trailing
-WBL-	799+94.31	0.025	803+03.91	0.025	Tangent	-EBL-	799+66.73	0.025	802+77.70	0.025	Tangent
-WBL-	803+03.91	0.025	803+28.91	0.02	Bridge No. 385 Approach	-EBL-	802+77.70	0.025	803+02.70	0.02	Bridge No. 386 Approach
-WBL-	805+48.03	0.02	805+73.03	0.025	Bridge No. 385 Trailing	-EBL-	805+18.65	0.02	805+43.65	0.025	Bridge No. 386 Trailing
-WBL-	805+73.03	0.025	841+36.45	0.025	Tangent	-EBL-	805+43.65	0.025	841+11.58	0.025	Tangent
-WBL-	841+36.45	0.025	841+61.45	0.02	Bridge No. 387 Approach	-EBL-	841+11.58	0.025	841+36.58	0.02	Bridge No. 388 Approach
-WBL-	843+01.80	0.02	843+26.80	0.025	Bridge No. 387 Trailing	-EBL-	842+75.64	0.02	843+00.64	0.025	Bridge No. 388 Trailing
-WBL-	843+26.80	0.025	868+36.20	0.025	Tangent	-EBL-	843+00.64	0.025	868+10.14	0.025	Tangent
-WBL-	868+36.20	0.025	869+11.20	0.04	Transition to Curve	-EBL-	868+10.14	0.025	868+85.14	0.04	Transition to Curve
-WBL-	869+11.20	0.04	886+98.10	0.04	For SE in Curve	-EBL-	868+85.14	0.04	886+87.54	0.04	For SE in Curve
-WBL-	886+98.10	0.04	887+73.10	0.025	Transition to Tangent	-EBL-	886+87.54	0.04	887+62.54	0.025	Transition to Tangent
-WBL-	887+73.10	0.025	953+96.07	0.025	Tangent	-EBL-	887+62.54	0.025	954+23.04	0.025	Tangent
-WBL-	953+96.07	0.025	954+21.07	0.02	Transition to Match Exist	-EBL-	954+23.04	0.025	954+48.04	0.02	Transition to Match Exist
-WBL-	954+21.07	0.02	954+98.93	0.02	Match Exist	-EBL-	954+48.04	0.02	955+25.91	0.02	Match Exist
-WBL-	954+98.93	0.02	955+23.93	0.025	Transition to Tangent	-EBL-	955+25.91	0.02	955+50.91	0.025	Transition to Tangent
-WBL-	955+23.93	0.025	966+86.97	0.025	Tangent	-EBL-	955+50.91	0.025	966+76.41	0.025	Tangent
-WBL-	966+86.97	0.025	967+61.97	0.04	Transition to Curve	-EBL-	966+76.41	0.025	967+51.41	0.04	Transition to Curve
-WBL-	967+61.97	0.04	997+91.94	0.04	For SE in Curve	-EBL-	967+51.41	0.04	997+56.20	0.04	For SE in Curve
-WBL-	997+91.94	0.04	998+66.94	0.025	Transition to Tangent	-EBL-	997+56.20	0.04	998+31.20	0.025	Transition to Tangent
-WBL-	998+66.94	0.025	1075+12.89	0.025	Tangent	-EBL-	998+31.20	0.025	1074+77.15	0.025	Tangent
-WBL-	1075+12.89	0.025	1075+37.89	0.02	Transition to Curve	-EBL-	1074+77.15	0.025	1075+02.15	0.02	Transition to Curve
-WBL-	1075+37.89	0.02	1099+06.48	0.02	For SE in Curve	-EBL-	1075+02.15	0.02	1098+61.30	0.02	For SE in Curve
-WBL-	1099+06.48	0.02	1099+31.48	0.025	Transition to Tangent	-EBL-	1098+61.30	0.02	1098+86.30	0.025	Transition to Tangent
-WBL-	1099+31.48	0.025	1126+45.91	0.025	Tangent	-EBL-	1098+86.30	0.025	1126+00.74	0.025	Tangent
-WBL-	1126+45.91	0.025	1126+70.91	0.02	Match Exist	-EBL-	1126+00.74	0.025	1126+25.74	0.02	Match Exist

HI-0018
Removal of Existing Asphalt Pavement Summary

LINE	STATION TO STATION		LOCATION	WIDTH (FT)	REMOVAL (SY)
EBL	169+97	170+45	LT	4	21
EBL	169+97	170+45	RT	2	11
EBL	172+85	173+33	LT	4	21
EBL	172+85	173+33	RT	2	11
				TOTAL =	64
				SAY =	70