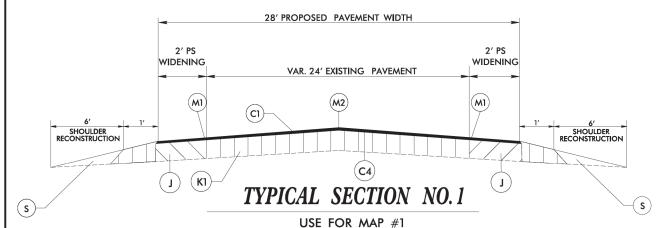


49218.16

PROJECT NOTES

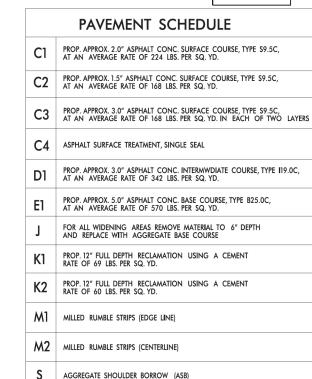
- 1. RECLAMATION WIDTH SHALL BE A MINIMUM OF TWO FEET BEYOND PROPOSED EDGE OF PAVEMENT (1' ON EACH SIDE OF ROADWAY), INCLUDING ALL WIDENING AREAS.
- 2. VEGETATION MUST BE REMOVED FROM SHOULDER 1 FOOT BEYOND PROPOSED EDGE OF PAVEMENT PRIOR TO FDR.
- 3. MAINTAIN ONE LANE OPEN AT ALL TIMES DURING CONSTRUCTION.
 MILITARY TRAFFIC EQUIPEMENT ONLY TO BE ALLOWED ON CEMENT TREATED
 BASE PRIOR TO PAVING.
- 4. CONTRACTOR SHALL WET CURE FDR UP UNTIL THE SINGLE SEAL IS PLACED.
- 5. EXCLUDE FDR FOR EXISTING CONCRETE SLAB AT KING AND MOORE COUNTY ROAD INTERSECTION AND AT CULVERT OVER JENNIE CREEK DUE TO EXISTING ASPHALT THICKNESS.



(1 MILE SOUTH OF MORGANTON RD TO INTERSECTION REALIGNMENT LIMITS STA. 13 + 73.24)

PAVEMENT SCHEDULE PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD. PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS ASPHALT SURFACE TREATMENT, SINGLE SEAL PROP. APPROX. 3.0" ASPHALT CONC. INTERMWDIATE COURSE, TYPE 119.0C. D1 AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C. E1 AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. FOR ALL WIDENING AREAS REMOVE MATERIAL TO 6" DEPTH AND REPLACE WITH AGGREGATE BASE COURSE PROP. 12" FULL DEPTH RECLAMATION USING A CEMENT RATE OF 69 LBS. PER SQ. YD. PROP. 12" FULL DEPTH RECLAMATION USING A CEMENT RATE OF 60 LBS, PER SQ, YD. M1 MILLED RUMBLE STRIPS (EDGE LINE) M2 MILLED RUMBLE STRIPS (CENTERLINE) S AGGREGATE SHOULDER BORROW (ASB) U EXISTING PAVEMENT 1.5" MILLING 2" MILLING

49218.16 SHEET NO 8

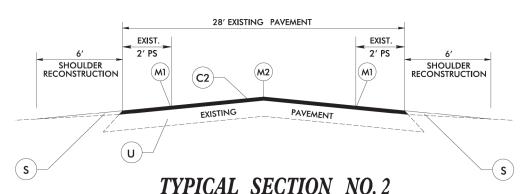


EARTH MATERIAL

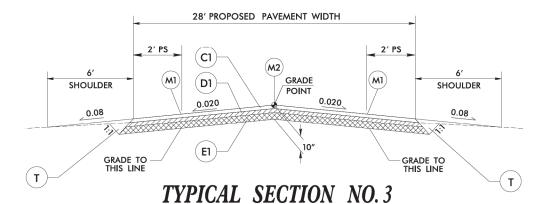
EXISTING PAVEMENT

1.5" MILLING

2" MILLING

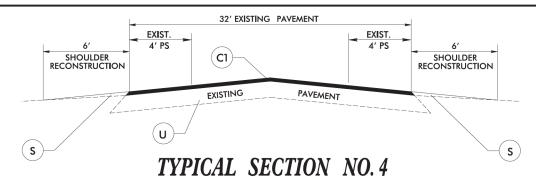


USE FOR MAP #1
KING RD
(FROM CONNETICUTT/MORGANTON RD
TO 1 MILE SOUTH)

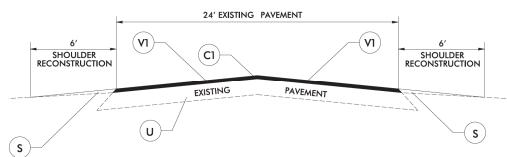


USE FOR MAP #1
KING RD
-EL- STA. 10+11.57 TO 13+73.24



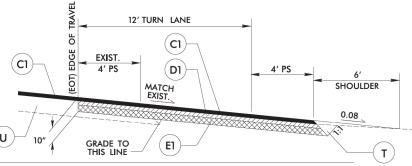


USE FOR MAP #4 PLANK RD



TYPICAL SECTION NO. 5

USE FOR MAP #2 MORGANTON RD

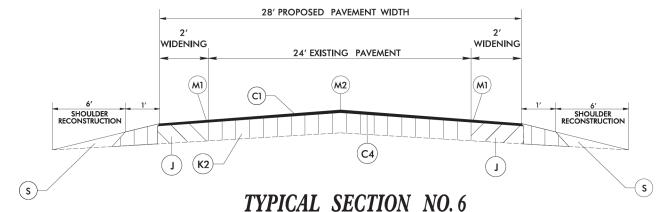


USE IN CONJUNCTION WITH TYPICAL SECTION NO. 4
MAP 4 PLANK RD.
PAVEMENT WIDENING LT.
-EY- STA. 15+04.34 TO 17+65.62

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AYERAGE RATE OF 168 LBS. PER \$Q. YD.
C3	PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C4	ASPHALT SURFACE TREATMENT, SINGLE SEAL
D1	PROP. APPROX. 3.0" ASPHALT CONC. INTERMWDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J	FOR ALL WIDENING AREAS REMOVE MATERIAL TO 6" DEPTH AND REPLACE WITH AGGREGATE BASE COURSE
K1	PROP. 12" FULL DEPTH RECLAMATION USING A CEMENT RATE OF 69 LBS. PER SQ. YD.
K2	PROP. 12" FULL DEPTH RECLAMATION USING A CEMENT RATE OF 60 LBS. PER SQ. YD.
M1	MILLED RUMBLE STRIPS (EDGE LINE)
M2	MILLED RUMBLE STRIPS (CENTERLINE)
S	AGGREGATE SHOULDER BORROW (ASB)
Т	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	1.5" MILLING
V2	2" MILLING

Manne Tim Dotarie don

- 1. RECLAMATION WIDTH SHALL BE A MINIMUM OF TWO FEET BEYOND PROPOSED EDGE OF PAVEMENT (I'ON EACH SIDE OF ROADWAY), INCLUDING ALL WIDENING AREAS.
- 2. VEGETATION MUST BE REMOVED FROM SHOULDER 1 FOOT BEYOND PROPOSED EDGE OF PAVEMENT PRIOR TO FDR.
- 3. MAINTAIN ONE LANE OPEN AT ALL TIMES DURING CONSTRUCTION. MILITARY TRAFFIC/EQUIPEMENT ONLY TO BE ALLOWED ON CEMENT TREATED BASE PRIOR TO PAVING.
- 4. CONTRACTOR SHALL WET CURE FDR UP UNTIL THE SINGLE SEAL IS PLACED.
- 5. EXCLUDE FDR FOR EXISTING CONCRETE SLAB AT KING AND MOORE COUNTY ROAD INTERSECTION AND AT CULVERT OVER JENNIE CREEK DUE TO EXISTING ASPHALT THICKNESS.



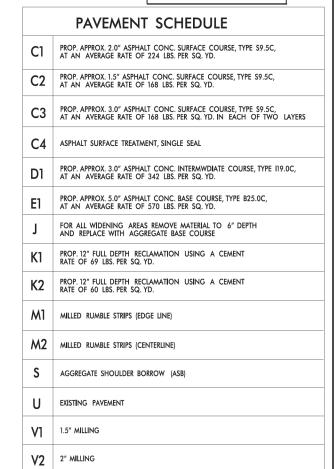
USE FOR MAP #6 MANCHESTER RD

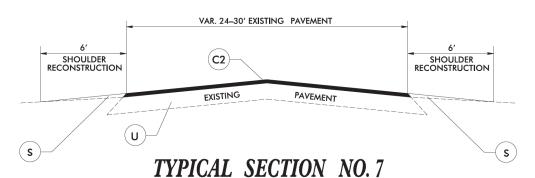
PAVEMENT SCHEDULE PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD. PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS ASPHALT SURFACE TREATMENT, SINGLE SEAL PROP. APPROX. 3.0" ASPHALT CONC. INTERMWDIATE COURSE, TYPE 119.0C. D1 AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C. E1 AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. FOR ALL WIDENING AREAS REMOVE MATERIAL TO 6" DEPTH AND REPLACE WITH AGGREGATE BASE COURSE PROP. 12" FULL DEPTH RECLAMATION USING A CEMENT RATE OF 69 LBS. PER SQ. YD. PROP. 12" FULL DEPTH RECLAMATION USING A CEMENT RATE OF 60 LBS, PER SQ, YD. M1 MILLED RUMBLE STRIPS (EDGE LINE) M2 MILLED RUMBLE STRIPS (CENTERLINE) S AGGREGATE SHOULDER BORROW (ASB) EXISTING PAVEMENT 1.5" MILLING

49218.24

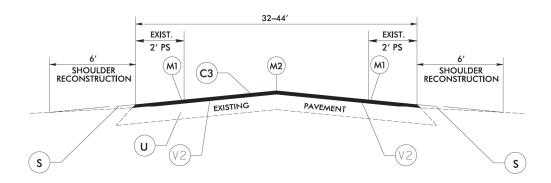
٧2 2" MILLING

WIS ELEMENT SHEET NO. 11 11 11





USE FOR MAP #3
MORRISON BRIDGE RD



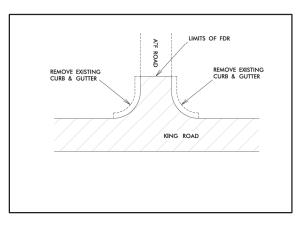
TYPICAL SECTION NO. 8

USE FOR MAP #5 MANCHESTER RD

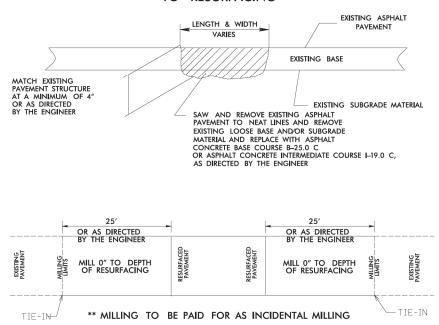
49218.16, 49218.17, 49218.18, 49218.23, 49218.24

DETAILS

DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING



USE DETAIL FOR MAP #7
ATF ROAD ENTERANCE



PAVEMENT TIE-IN DETAIL

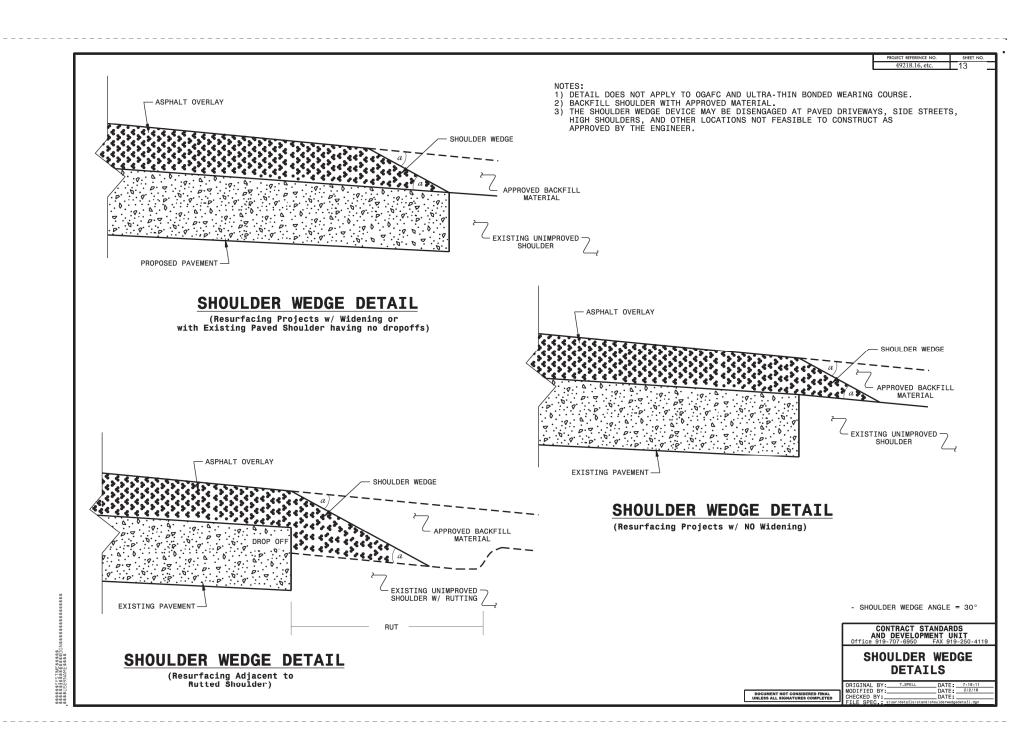
STAKING (FULL DEPTH RECLAMATION):

Prior to milling existing asphalt, contractor shall install offset stakes. Stakes shall be referenced off the centerline of existing alignment. Place every 100 feet in tangent sections (alternating sides of the road) and every 50 feet in curves. Stakes should be left in place and maintained until the project is accepted. Payment for staking will be incidental to Soil Cement Base (Full Depth Reclamation).

TYPICAL DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

	ADDITIONAL INTERSECTIONS (NON-TY	(PICAL)
	Extend paving limits to back of radius or loop on the following intersections:	
MAP#	STREET NAME	COMMENTS
#1 KING ROAD	MOORE COUNTY RD	PAVE TO BACK OF RADIUS
#1 KING ROAD	ATF RD	PAVE TO BACK OF RADIUS
#1 KING ROAD /#6 MANCHESTER RD	MORGANTON RD	PAVE TO JOINT ON WEST SIDE, END OF PAVEMENT ON EAST SIDE
#5 MANCHESTER RD	BLUES RD	PAVE TO BACK OF RADIUS
#5 MANCHESTER RD	RAY RD	PAVE TO BACK OF RADIUS
#5 MANCHESTER RD	LATHAM RD	PAVE TO BACK OF RADIUS
#5 MANCHESTER RD	JOHN NEIL SHAW RD	PAVE TO BACK OF RADIUS
#5 MANCHESTER RD	LAMONT RD	PAVE TO BACK OF RADIUS
#6 MANCHESTER RD	RAEFORD/VASS RD	PAVE TO BACK OF RADIUS
#6 MANCHESTER RD	MORRISON BRIDGE RD	PAVE TO BACK OF RADIUS
#1 KING RD, #5 & #6 MANCHESTER RD	ALL EXISTING PAVED DRIVEWAY/STREET TURNOUTS	PAVE TO BACK OF RADIUS



1223 Jones Franklin Rd. Raleigh, N.C. 27606 Liscense No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107 ENGINEERING TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CNIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Manchester Road Guardrail Replacement Locations 2019 11111 2026 MacArthur Lake Manly Southern Pines Site #1 at MacArthur Lake Remove and Replace Guardrail Coord: 35.185984,-79.258719 Site #2 at Flat Creek Remove and Replace Guardrail Coord: 35.182624,-79.177369 2162 Range 74 OP 12 Longstreet Church 2077

2/6/2024 ...\49218.16_Manchester Rd_rdu

Ashley Heights

ENGINEERING

1223 Jones Franklin Rd. Raleigh, N.C. 27606 Liscense No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107

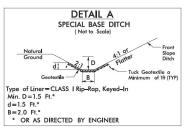
ENGINEER 1/17/2024

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

KING ROAD

PROPOSED DITCH STABILIZATION

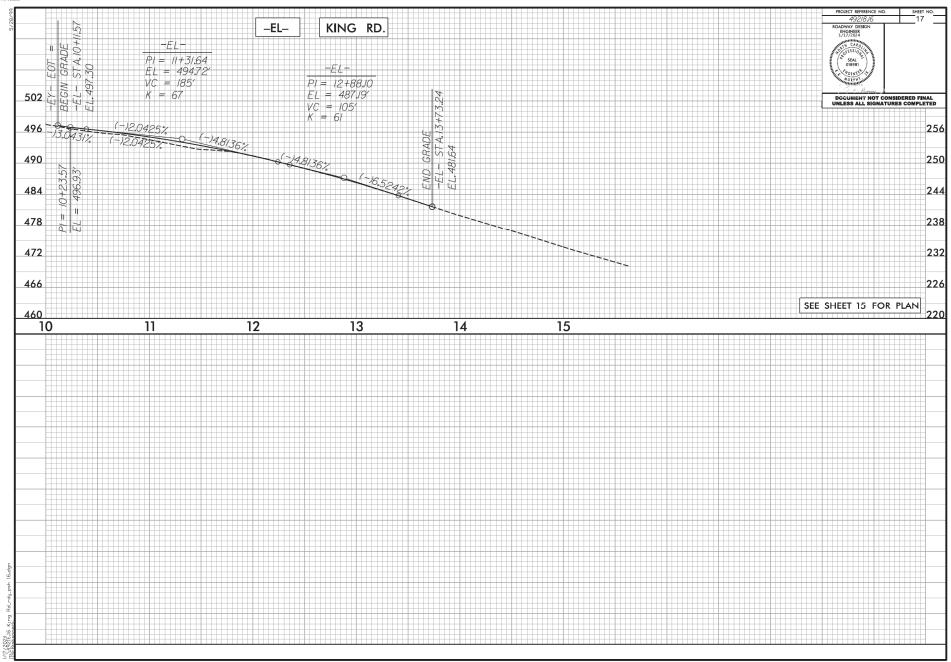




-EY- POT Sta. 15+04.34

REMOVAL OF EXISTING PAVEMENT

USinn Envelope ID: 2D1806E0-0505-4356-0381-8D470E032E



PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
EL- KING ROAD	10+11.57	13+73.24	LT & RT	2,757.44
			 	
			TOTAL:	2,757.44
			TOTAL:	2,/5/.44
			SAY:	2,760

Note: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing 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. +20%	BORROW	WASTE
-EL- KING ROAD	10+11.57 TO 14+50.00	856	6		850
CLIPT	OTALS:				
2081	OTALS:	856	6		850
	1				
SUBT	OTALS:				
PROJECT	TOTALS:	856	6		850
GRAND	TOTALS:	856			
	AY:	865			

"H" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.

TOTAL SHOULDS WIDTH = DISTANCE FROM FOR TO FRAVE LANE TO SHOULDER BREAK POINT.

TOTAL SHOULDS WIDTH = TRAVEL FROM SECIONAND OF TAPER TO END OF GUARDRAIL

OF = CATING IMPACT ATTENLATOR TYPE 350

MG = NON-CASTING IMPACT ATTENLATOR TYPE 350

GUARDRAIL SUMMARY

NG = NC	N-GATING IMPACT A	THENUATOR TYPE 350	0																									
SURVEY	BEG. STA.	END STA.	LOCATION		LENGTH		WARRA	NT POINT	"N" DIST.	TOTAL SHOUL.	FLARE	LENGTH	١	W				A	NCHORS					IMPACT ATTENUATOR	SINGLE	REMOVE	REMOVE AND STOCKPILE	
LINE	LATITUDE	LONGITUDE	LOCATION	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	TYPE III	GREU TL-3	AT-1		CAT-1	VI MOD	BIC	AT-1	TYPE 350	FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	EXISTING GUARDRAIL	REMARKS
SITE 1 MANCHESTER RD.	35.185984	-79.252719	LT. & RT.	2,425.00'	50'				6'-0"	9'-0"	50'-0"	50'-0"					3	1								2,425.00'		
SITE 2 MANCHESTER RD.	35.182624	-79.177369	LT. & RT.	200.00'					4'-0"	7′-0"	50′-0″	50'-0"					4									200.00′		
KING RD.																										90.00′		
PLANK RD.																										66.00′		
			PROJECT SUBTOTAL	2,625.00'													7	1										
		LESS A	NCHOR DEDUCTIONS	(-)356.25'																								
			GR PROJECT TOTAL	2,268.75'																								
			PERMANENT GR SAY	2,275.00'	50'	ADDITIO	ONAL GUARDRAIL POST	S = 5 EACH											GUARDE	RAIL ANCH	OR DEDUC	CTIONS						
n P																			GREU T	TL-3 = 7	@ 50' =	350'						
																			AT-1	= 1@	6.25' = 6	.25'						
1																			TOTA	L DEDUCT	IONS - 3	356.25'						
3																												

PROJECT NO.	SHEET NO.	TOTAL NO.
49218.16, 49218.17		
49218.18, ETC.	19	

SUMMARY OF QUANTITIES

														0000400000-N	0043000000-1	0134000000-E	0241000000-E	1121000000-E	1187000000-E	1220000000-E	1245000000-E	1260000000-E	1297	000000-E	1330000000-E	1491000000-E	1503000000-E	1523000000-E	1575000000-E
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP NO	LANES LA	ANE FI	INAL W	VARM MIX	LENGTH	WIDTH	BEGIN ME	END MP		GRADING	DRAINAGE	GENERIC	AGGREGATE	PORTLAND	INCIDENTAL	SHOULDER	AGGREGATE	1.5"	2"	INCIDENTAL	BASE		SURFACE	ASPHALT
NO		NO				l r	PE SUI	RFACE A	ASPHALT	150000000				CONSTRUCTI	15cansonotor	DITCH	GRADING ITEM.	BASE COURSE	CEMENT FOR	STONE BASE	RECONSTRUCTI	SHOULDER	MILLING	MILLING	MILLING	COURSE,	INTERMEDIAT	COURSE,	BINDER FOR
							TES	STING R	REQUIRED					ON		EXCAVATION	SOIL CEMENT		SOIL CEMENT		ON	BORROW				B25.0C	E COURSE,	S9.5C	PLANT MIX
l								QUIRED						SURVEYING			BASE (FULL	1	BASE								119.0C		
							1									1	DEPTH	1				1							
																1	RECLAMATION)					1							
									- 1	MI	FT			LS	LS	CY	SY	TONS	TON	TONS	SMI	TON	SY	SY	SY	TONS	TONS	TONS	TONS
				FDR - FROM MORGANTON RD TO			_											100	10.11	10.10					- "	10110	10.10	10.10	
				INTERSECTION REALIGNMENT LIMITS												1		1	1										
49218.16	Hoke	1 1	KING ROAD	(STA. 13+73.24)	1,2	2 2	wu I	NO	NO	7.17	28	0.07	7.24			1	108,767	4,952	3,752	250	14.35	2,060.00						14,391	853
10210110	110110	-	Tarro Trono	INTERSECTION REALIGNMENT (KING	A, E.					****	Lo	0.07	712.4			1	200,707	4,002	0,702	200	21100	2,000,00	1					24,002	000
49218.16	Hoke	1	KING ROAD	RD AT PLANK RD)	3	2 2	wu l	NO	NO	0.07	28	0	0.07	1.00	1.00	20.00		1		100		1				425	257	167	41
49210.10	TOTAL FOR	MAD NO. 1		ND AT FDANK ND)	3	2 2	****	IVO	NO	7.24	20	-	0.07	1.00	1.00	20.00	108,767	4,952	3,752	350	14.35	2,060.00	-	_		425	257	14,558	894
	TOTAL FOR	MAP NO.				-	_	-		7.24	_	_	-	1.00	1.00	20.00	108,767	4,952	3,752	350	14.35	2,060.00	-	_		425	257	14,558	894
l	TOTAL FOR PRO	JNO. 4921	18.16			-	_	-	_	7.24	_		_	1.00	1.00	20.00	108,767	4,952	3,/52	350	14.35	2,060.00				425	25/	14,558	894
												_																	
				RESURFACING - FROM CJ EAST OF			- 1	- 1					l	1		I	I	1	I			I		l	I				
				INTERSECTION OF SR 2074 (FORT												1		1	l										
				BRAGG RD) TO CJ AT INTERSECTION												1		1				1							
49218.17	Hoke	2	MORGANTON ROAD	WITH MANCHESTER RD.	5	2 2	WU	NO	NO	0.58	24	0	0.58								1.17	164.00	8,227					1,014	61
	TOTAL FOR	MAP NO. 2	!							0.58											1.17	164.00	8,227					1,014	61
1	TOTAL FOR PRO	INO 4021	0 17							0.58											1.17	164.00	8,227					1,014	61
	TOTAL FOR PRO	140.4921	10.17																										
				RESURFACING - FROM END OF																									
				STATE MAINTENANCE TO												1		1				1							
49218.18	Hoke	3 1	MORRISON BRIDGE ROAD	MANCHESTER RD	7	2 2	wu	NO	NO	0.58	24	0	0.58			1		1	l		1.10	155.00			600			619	37
	TOTAL FOR	MAP NO. 3	В							0.58											1.10	155.00			600			619	37
										0.58											1.10	155.00			600			619	37
1	TOTAL FOR PRO	JNO. 4921	18.18																										
													•								•								
				RESURFACING AND WIDENING -																									
				FROM 800' EAST OF CL OF NC HWY												1		1	l										
49218.23	Hoke	4	PLANK ROAD	211 TO CJ EAST OF KING ROAD	4	2 2	wu I	NO	NO	0.42	32	3.74	4.16			1		1			0.79	141.00			344	135	83	888	65
	TOTAL FOR	MAP NO. 4								0.42		-				1		1		1	0.79	141.00			344	135	83	888	65
							$\overline{}$	-		0.42						 		_			0.79	141.00			344	135	83	888	65
1	TOTAL FOR PRO	J NO. 4021	18.23													1		1											
																•		•			-		•						
				RESURFACING - FROM LAMONT RD												1						1							
49218.24	Cumberland, Hoke	5	MANCHESTER ROAD	TO C.J. WEST OF BLUES RD	8	2 2	wu l	NO	NO	5.03	32	0	5.03			1		1	l		10.06	1,409.00		101,209				18,703	1,109
	TOTAL FOR	MAP NO. 5								5.03		_				1		 			10.06	1,409.00	_	101,209				18,703	1,109
				FDR - FROM CJ WEST OF BLUES RD			-	-								†						-,	_	202,200				20,100	-,
49218.24	Hoke	6	MANCHESTER ROAD	TO CJ EAST OF MORGANTON RD	6	2 2	wu l	NO	NO	10.61	24	١ ،	10.61			1	186,883	8,515	5,606		21.23	2,973.00						19.673	1,161
40210.24	TOTAL FOR	MAD NO 6		TO GO END OF FIGURE VICTORIA				110	no.	10.61	24	_ v	10.01			1	186,883	8,515	5,606		21.23	2,973.00	_	_				19,673	1,161
						_	_	-		15.64			_			 	186,883	8,515	5,606		31.29	4,382.00		101,209				38,376	2,270
l	TOTAL FOR PRO	J NO. 4921	18.24		_	_	-	-	_	10.04	_						100,003	0,010	3,000		31.20	4,302.00	_	101,200				30,370	2,270
																<u> </u>				l									
—				PAVEMENT MARKINGS - FROM KING			_					_				1					1								
40040.05	Date:		ATF ROAD			2 2	wu I	NO	NO	0.9	24	0	0.9			1		1	l										
49218.25	Hoke TOTAL FOR	MAD NO		RD TO C.J.		2 2	wo	NO	NO	0.9	24	0	0.9							-	1	 	1						
	IUIAL FOR	MAP NO. 7			_	+	-	-+		0.9		-	-			+					 	-	-						
I	TOTAL FOR PRO	J NO. 4921	18.25		_	+	-	-		0.9		_				+							-						
—						$\perp \perp$							l	1		1	1	I	L	l	L	I					I		L
I	GRAND	TOTAL				\vdash				25.36				1.00	1.00	20.00	295,650	13,467	9,358	350	48.70	6,902.00	8,227	101,209	944	560	340	55,455	3,327
ı						1 1	- 1	- 1				1	ı	1	ı	1	1	1	I	1	1	l	1		1 1		1		l

PROJECT NO.	SHEET NO.	TOTAL NO.
49218.16, 49218.17		
49218.18, ETC.	20	

SUMMARY OF QUANTITIES

													1704000000-	1814500000-E	1838000000-E	1838500000-N	1840000000-E	3030000000-	3045000000-E	3150000000-N	3195000000-N	3287000000-N	3360000000-E	3628000000-	E 3656000000-E	6000000000-E	6009000000-E	6012000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO L	ANES LAN		REQUIRED	LENGTH	WIDTH	BEGIN MP	END MP	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, SINGLE SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	MILLED RUMBLE STRIPS	STEEL BEAM GUARDRAIL		ADDITIONAL GUARDRAIL POSTS	GUARDRAIL END UNITS, TYPE AT-1	GUARDRAIL END UNITS, TYPE TL-3	REMOVE EXISTING GUARDRAIL	RIP RAP, CLASS I	GEOTEXTILE FOR DRAINAGE	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE
		1							<u> </u>	-			70110	01/		1407								TON			TON	TON
		1		FDR - FROM MORGANTON RD TO		_	-	_	MI	FT		_	TONS	SY	GAL	WK	LF	LF	LF	EA	EA	EA	LF	ION	SY	LF	TON	ION
		1		INTERSECTION REALIGNMENT LIMITS																								
49218.16	Hoke	1	KING ROAD	(STA. 13+73.24)	1, 2	2 2WI	NO NO	NO	7.17	28	0.07	7.24	75	108,767.00	38,068	5.00	113,752							880	1,800.00	500	65.00	25
				INTERSECTION REALIGNMENT (KING																								
49218.16	Hoke	1	KING ROAD	RD AT PLANK RD)	3	2 2WI	NO NO	NO	0.07	28	0	0.07					930						90.00			500	65.00	25
	TOTAL FOR	MAP NO.	.1		-+	_	_	_	7.24			_	75 75	108,767.00 108,767.00	38,068 38,068	5.00 5.00	114,682 114,682	-					90.00	880 880	1,800.00 1,800.00	1,000	130.00 130.00	50 50
	TOTAL FOR PRO	J NO. 492	218.16						7.24			_	/5	100,767.00	30,000	5.00	114,002						50.00	000	1,800.00	1,000	130.00	50
							1										1											
				RESURFACING - FROM CJ EAST OF																								
		1		INTERSECTION OF SR 2074 (FORT																								
		١.		BRAGG RD) TO CJ AT INTERSECTION	_	_					_																	
49218.17	Hoke TOTAL FOR	MAD NO	MORGANTON ROAD	WITH MANCHESTER RD.	5	2 2WI	J NO	NO	0.58	24	0	0.58	25 25										 					
					t	_			0.58				25										1		†			
	TOTAL FOR PRO	J NO. 492	218.17														1								1			1
		1		RESURFACING - FROM END OF				l .																				
49218.18	Hoke		MORRISON BRIDGE ROAL	STATE MAINTENANCE TO MANCHESTER RD	7	2 2W	, NO	NO	0.58	24	0	0.58																
49218.18	TOTAL FOR			PIANCHESIEN NO	-	2 2W	NU	NU	0.58	24	0	0.58			 									<u> </u>	+			
					t	_			0.58														1		†			
	TOTAL FOR PRO	J NO. 492	218.18																									
																		,										
		1		RESURFACING AND WIDENING - FROM 800' EAST OF CL OF NC HWY																								
49218.23	Hoke	1	PLANK ROAD	211 TO CJ EAST OF KING ROAD	4	2 2WI	NO NO	NO	0.42	32	3.74	4.16	60										66.00					
40210.20	TOTAL FOR	MAP NO.		EII 10 0) EI01 01 IM10 II010	-	2 2111	110		0.42	U.	0.74	4.10	60		1		1	1					66.00		1			
	TOTAL FOR PRO	UNO 400	210 22						0.42				60										66.00					
	TOTALTOTTAL	7110.402	210.20																									
		_		RESURFACING - FROM LAMONT RD			_		_										_							_		
49218.24	Cumberland, Hoke	5	MANCHESTER ROAD	TO C.J. WEST OF BLUES RD	8	2 2W	NO NO	NO	5.03	32	0	5.03	110				79,675							l	1			
.02.20.24	TOTAL FOR	MAP NO.		TELEVISION DEGLECTED	-	- 2	1.0	0	5.03	- 32	,	5.00	110				79,675							t	1			
		П		FDR - FROM CJ WEST OF BLUES RD																								
49218.24	Hoke	6	MANCHESTER ROAD	TO CJ EAST OF MORGANTON RD	6	2 2WI	NO NO	NO	10.61	24	0	10.61		186,883.00	65,409	10.00	168,062	2,275.00	50.00	5.00	1.00	7.00	2,625.00			500	75.00	30
	TOTAL FOR	MAP NO.	.6				_		10.61					186,883.00	65,409	10.00	168,062	2,275.00	50.00	5.00	1.00	7.00	2,625.00	.		500	75.00	30
	TOTAL FOR PRO	J NO. 492	218.24		-+	_	+	-	15.64			_	110	186,883.00	65,409	10.00	247,737	2,275.00	50.00	5.00	1.00	7.00	2,625.00	-	+	500	75.00	30
															1								l				L	
		1		PAVEMENT MARKINGS - FROM KING			T	1	Ι			Ι					1	1					T	T	1			
49218.25	Hoke	7	ATF ROAD	RD TO C.J.		2 2W	NO NO	NO	0.9	24	0	0.9																
	TOTAL FOR	MAP NO.	.7						0.9																			
	TOTAL FOR PRO	J NO. 492	218.25			_	-	-	0.9			—		-	-		-		-				1	-	+		-	
									L						1				l			l		ı			l	L
									25.36				270	295,650.00	103,477	15.00	362,419	2,275.00	50.00	5.00	1.00	7.00	2,781.00	880	1,800.00	1,500	205.00	80
	GRAND	TOTAL																										

PROJECT NO.	SHEET NO.	TOTAL NO.
49218.16, 49218.17		
49218.18, ETC.	21	

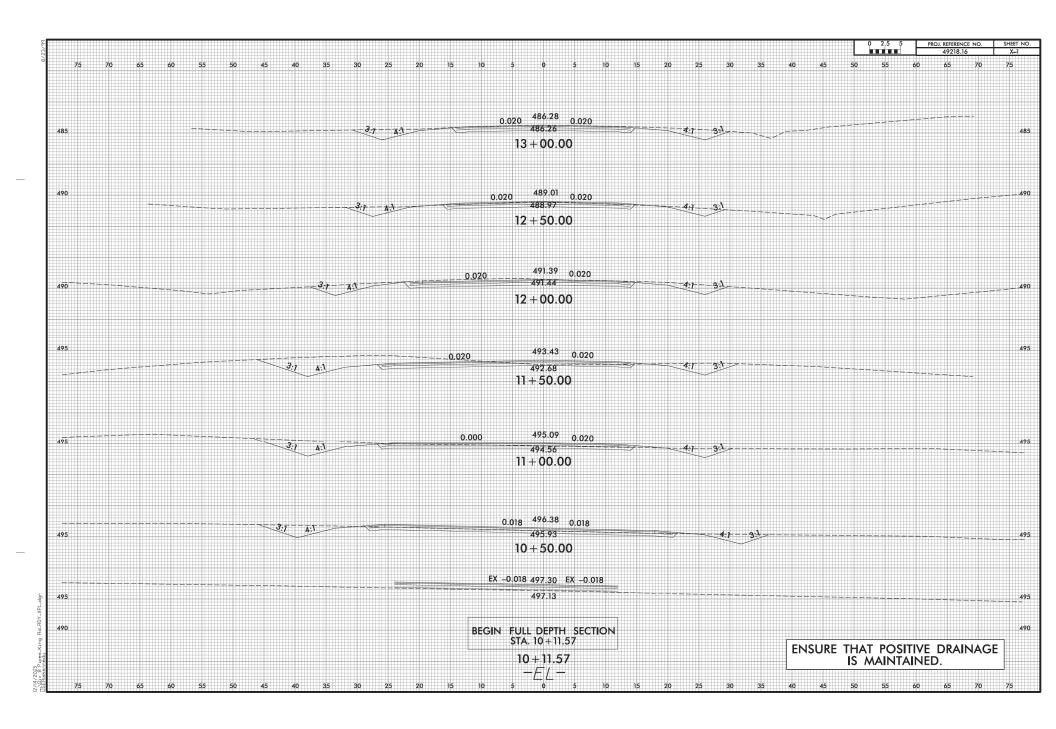
SUMMARY OF QUANTITIES

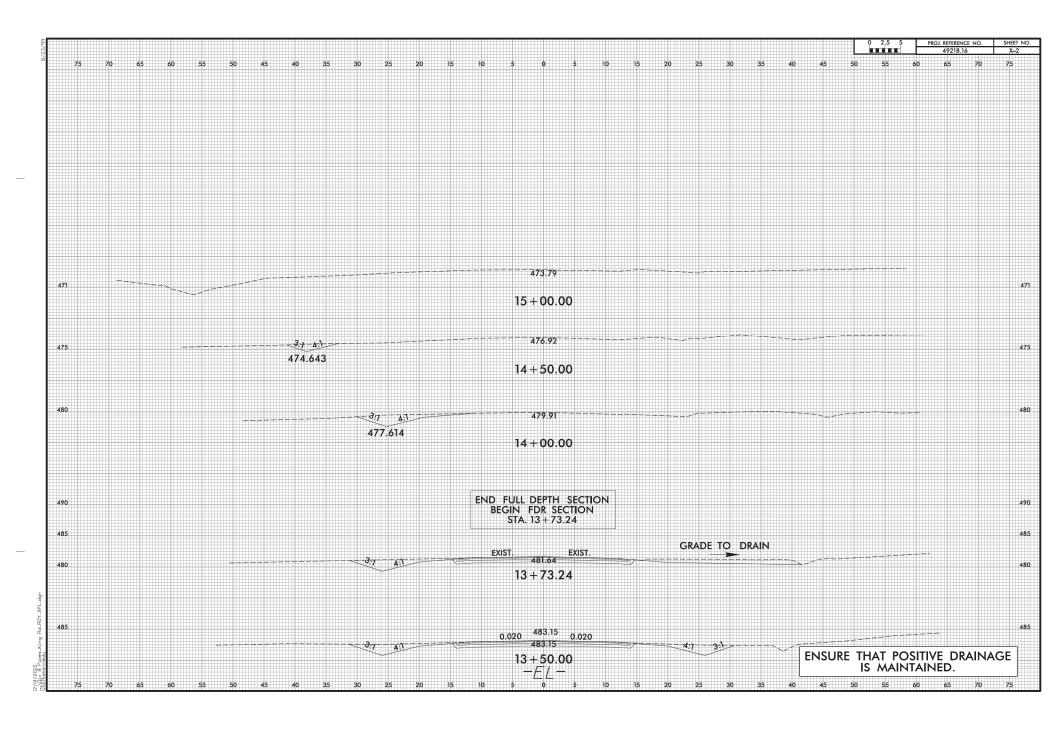
														6015000000-E	6018000000-E	6021000000-E	6029000000-E	6030000000-	E 6036000000-E	6042000000-E	6071010000-E	6084000000-E	6087000000-	6090000000-E	6093000000-E	6096000000-	6114500000-	6117000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED		WIDTH	BEGIN MF	END MP	TEMPORARY MULCHING	SEED FOR TEMPORARY SEEDING	FERTILIZER FOR TEMPORARY SEEDING	SAFETY FENCE	SILT EXCAVATION	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	MOWING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	SEED FOR SUPPLEMENT AL SEEDING		RESPONSE FOR EROSION CONTROL
												l																
										MI	FT			ACR	LB	TON	LF	CY	SY	LF	LF	AC	ACR	LB	TON	LB	MHR	EA
				FDR - FROM MORGANTON RD TO INTERSECTION REALIGNMENT LIMITS								1																
49218.16	Hoke	1	KING ROAD	(STA. 13+73.24)	1, 2	2	2WU	NO	NO	7.17	28	0.07	7.24	0.50	100.00	0.50	300	90	200.00	35.00	170	0.50	14	50.00	0.25	50.00	25	3
			10110 0010	INTERSECTION REALIGNMENT (KING																								
49218.16	Hoke TOTAL FOR	MAP NO	KING ROAD	RD AT PLANK RD)	3	2	2WU	NO	NO	0.07 7.24	28	0	0.07	0.50 1.00	100.00 200.00	0.50 1.00	300	90	200.00 400.00	35.00 70.00	170 340	0.50 1.00	15	50.00 100.00	0.25 0.50	50.00 100.00	25	5
	TOTAL FOR PRO					t				7.24				1.00	200.00	1.00	300	180	400.00	70.00	340	1.00	15	100.00	0.50	100.00	25	5
	TOTAL POR PRO	J NO. 492	18.16																									
	1	_		RESURFACING - FROM CJ EAST OF		1			ı	Ι		_	1		1			1	1	1		1	1	1	1	1		
				INTERSECTION OF SR 2074 (FORT								l																
				BRAGG RD) TO CJ AT INTERSECTION								l																
49218.17	Hoke TOTAL FOR	2 MAP NO	MORGANTON ROAD	WITH MANCHESTER RD.	5	2	2WU	NO	NO	0.58	24	0	0.58														+	
						t				0.58																		
	TOTAL FOR PRO	J NO. 492	18.17																									
	1			RESURFACING - FROM END OF						1			1			1			1	1		1						1
				STATE MAINTENANCE TO								l																
49218.18	Hoke		MORRISON BRIDGE ROAD	MANCHESTER RD	7	2	2WU	NO	NO	0.58	24	0	0.58															
	TOTAL FOR	MAP NO.	3		-	₩	-			0.58		<u> </u>	-							<u> </u>								
	TOTAL FOR PRO	J NO. 492	18.18			+	-			0.56		 	 						_	†							-	
				RESURFACING AND WIDENING - FROM 800' EAST OF CL OF NC HWY								l																
49218.23	Hoke	4	PLANK ROAD	211 TO CJ EAST OF KING ROAD	4	2	2WU	NO	NO	0.42	32	3.74	4.16															
	TOTAL FOR	MAP NO.	4							0.42																		
	TOTAL FOR PRO	J NO. 402	18.23							0.42		l																
					_	-	ш		l				1					1		1		1						1
				RESURFACING - FROM LAMONT RD			[]																					
49218.24	Cumberland, Hoke TOTAL FOR	MAP NO	MANCHESTER ROAD 5	TO C.J. WEST OF BLUES RD	8	2	2WU	NO	NO	5.03 5.03	32	0	5.03					-	-	 					_		+	-
		10.		FDR - FROM CJ WEST OF BLUES RD			Н													†							 	
49218.24	Hoke TOTAL FOR	6 MAD NO	MANCHESTER ROAD	TO CJ EAST OF MORGANTON RD	6	2	2WU	NO	NO	10.61 10.61	24	0	10.61	0.50 0.50	100.00 100.00	0.50 0.50	300 300	100 100	250.00 250.00	50.00 50.00	300 300	0.50 0.50	25 25	50.00 50.00	0.25 0.25	50.00 50.00	50 50	5 5
						\vdash				15.64		 		0.50	100.00	0.50	300	100	250.00	50.00	300	0.50	25	50.00	0.25	50.00	50	5
	TOTAL FOR PRO	J NO. 492	18.24																									
		_		PAVEMENT MARKINGS - FROM KING			_			_		_											1					
49218.25	Hoke	7	ATF ROAD	RD TO C.J.		2	2WU	NO	NO	0.9	24	0	0.9							1								
	TOTAL FOR	MAP NO.	7							0.9																		
	TOTAL FOR PRO	J NO. 492	18.25		-	1	\vdash			0.9	-	-	₩			-			+	 		-		-	-	-	-	
				1	-	-	ш		ı					l					1	1			1					-
	GRAND	TOTAL								25.36				1.50	300.00	1.50	600	280	650.00	120.00	640	1.50	40	150.00	0.75	150.00	75	10
	JIMIL			1	1	1	1 7		I	1		1	1		1			1	1	1	I	1	1	_			1	1

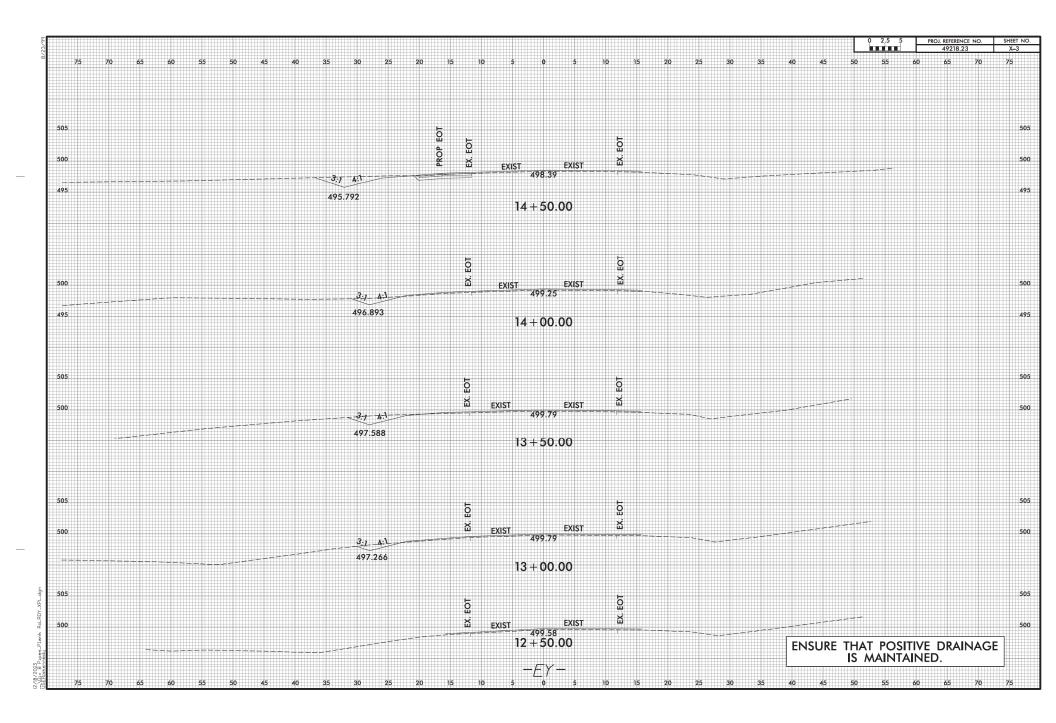
PROJECT NO.	SHEET NO.	TOTAL NO.
49218.16, 49218.17	20	
49218.18, ETC.	22	

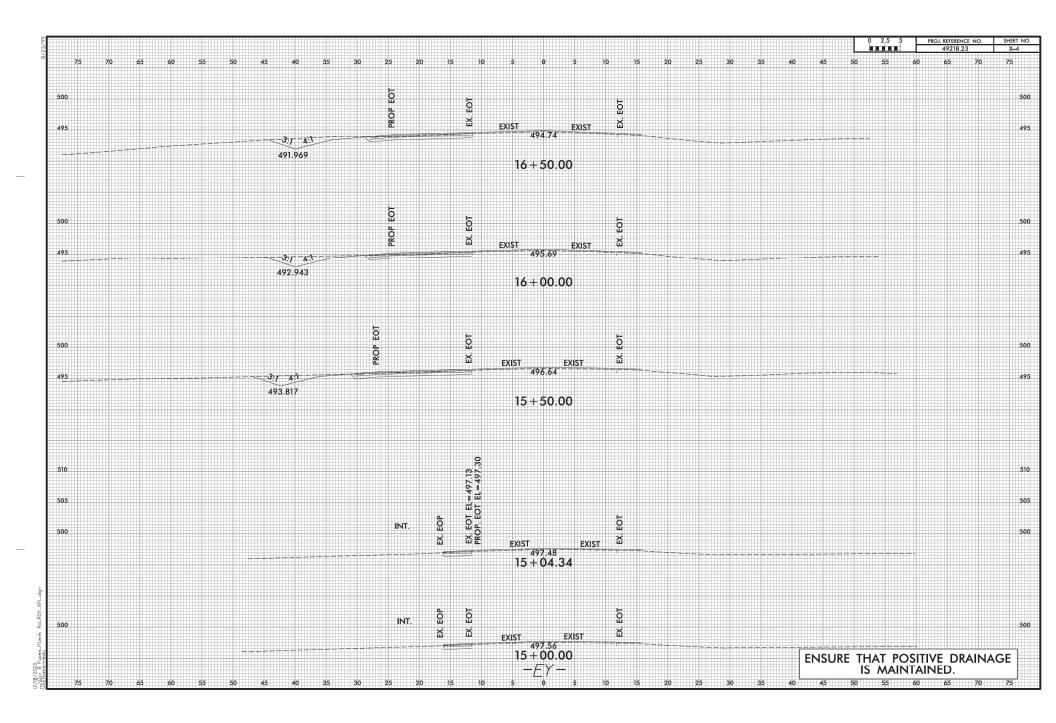
THERMOPLASTIC AND PAINT QUANTITIES

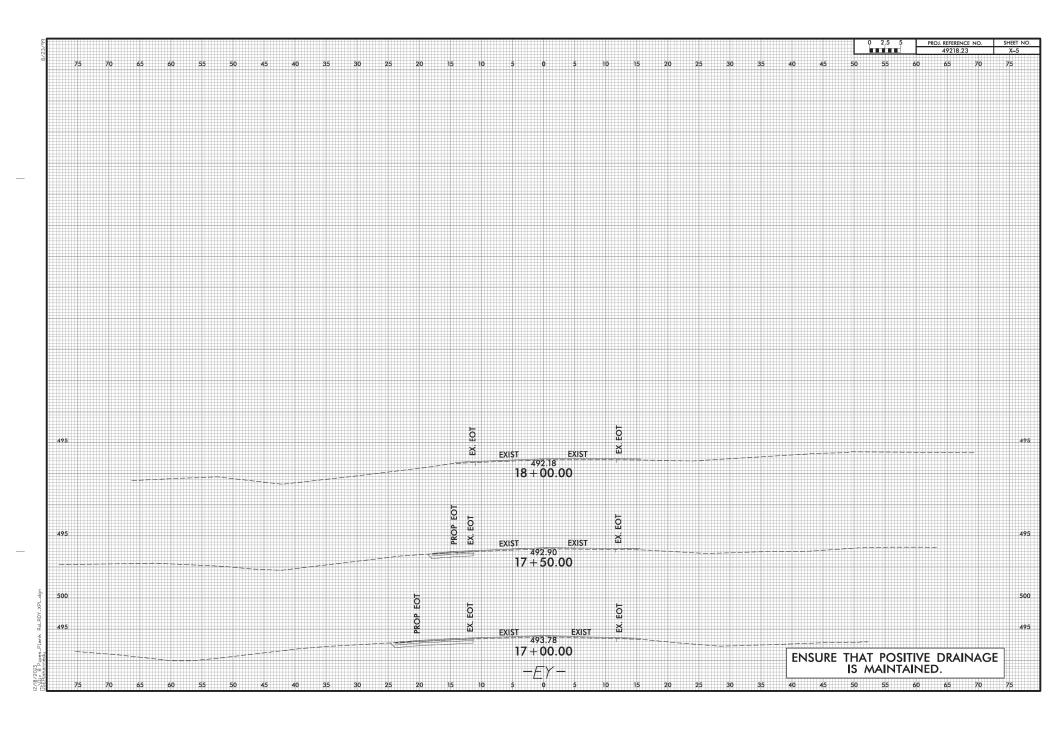
														CAN																
														4420000000-N						4709000000-E		00000-E		00000-E		E 4835000000-E		0000-N		00000-N
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION				ENGTH	VIDTH BE				WORK ZONE		TYPE III	TEMPORARY		6" X 90 M	8" X 90 M WHITE	24" X 90 M	THERMO				8" WHITE	24" WHITE		PAINT RT	NON-CAST	NON-CAST
NO		NO			NO		TYPE		M	וי	SIGNS	MOUNTED	ADVANCE/GE		BARRICADE	TRAFFIC	WHITE	YELLOW		WHITE	RT ARROW		PAINT	PAINT	PAINT	PAINT	ARROW	ARROW	IRON	IRON
		II			l I		- 1			- 1	(STATIONARY)		NERAL	MESSAGE		CONTROL	THERMO	THERMO	THERMO	THERMO	90 M	90 M					1			SNOWPLOWA
		II			ll					- 1	1	SIGN	WARNING	SIGN					1			l							BLE	BLE
		II			ll					- 1	1		SIGNING						1			l							PAVEMENT	PAVEMENT
		II			ll		- 1	_	_																				MARKER Y&Y	MARKER C&R
		\vdash			$\overline{}$		\rightarrow	MI	FT		SF	SF	SF	EA	LF	LS	LF	LF	LF	LF	EA	EA	LF	LF	LF	LF	EA	EA	EA	EA
		II		FDR - FROM MORGANTON RD TO	ıı		- 1			- 1	1		l						1		1	l					1		. '	1
		II		INTERSECTION REALIGNMENT LIMITS	ll					- 1	1		l						1			l							. '	Ï
49218.16	Hoke	1	KING ROAD	(STA. 13+73.24)	1, 2	2	2WU	7.17	28 0.	7.24	126	20	118	2	16		75,647	51,079		15			75,647	51,079		15			487	
		II		INTERSECTION REALIGNMENT (KING	ll					- 1	1		l						1			l							. '	1
49218.16	Hoke	1	KING ROAD	RD AT PLANK RD)	3	2 :		0.07	28	0.07		20		1	32	1	915	700		30	1	1	915	700		30	1	1	5	7
	TOTAL FOR	MAP NO.	.1					7.24			126	40	118	3	48		76,562	51,779		45	1	1	76,562	51,779		45	1	1	492	7
	TOTAL FOR PRO	DI NO 49	210 16					7.24			126	40	118	3	48	1.0000	76,562	51,779		45	1	1	76,562	51,779		45	1	1	492	7
	TOTALTONTAG	J) 140. 43.	210.10														128	8,341				2	128	,341				2	4	199
		ГТ		RESURFACING - FROM CJ EAST OF	ГΤ		Т	$ \top$																						
1		ıl		INTERSECTION OF SR 2074 (FORT	ıI					- 1	1	1	I	1	1	I	1	1	I	1	1	l	1	1	1	1	1		. '	1
1 1		i I		BRAGG RD) TO CJ AT INTERSECTION	i 1					- 1	I	1	I	1					I	1	I	l	1		1	1	1		. '	1
49218.17	Hoke	2	MORGANTON ROAD	WITH MANCHESTER RD.	5	2	2WU	0.58	24	0.58	1		65				6,170	4,045	1			l	6,170	4,045					39	1
	TOTAL FOR	MAP NO.	.2					0.58					65			1	6,170	4,045					6,170	4,045					39	
	TOTAL FOR PRO	NINO 401	210 17					0.58					65			1.0000	6,170	4,045					6,170	4,045					39	
	TOTAL FOR PRO	JJ NO. 492	218.17				\neg										10	0,215				•	10,	215					7	39
											•		•		•		•		•	•					•	•				
		П		RESURFACING - FROM END OF			-																							
		II		STATE MAINTENANCE TO	ll					- 1	1		l			١.			1			l							. '	Ï
49218.18	Hoke	3 1	MORRISON BRIDGE ROAD	MANCHESTER RD	7	2	2WU	0.58	24	0.58	1		92				6,197	6,197	1			l							37	1
	TOTAL FOR				\vdash			0.58		_			92			1	6,197	6,197	1										37	
								0.58		_	1		92			1,0000	6,197	6,197	1								1		37	
	TOTAL FOR PRO	DJ NO. 492	218.18		-	$\overline{}$	\neg	-	-	\neg	1							2,394	1										7	37
																		,,,,,												
		Г		RESURFACING AND WIDENING -	П		Т			1									1											
		II		FROM 800' EAST OF CL OF NC HWY	ll					- 1	1		l						1			l							. '	1
49218.23	Hoke	1 4 I	PLANK ROAD	211 TO CJ EAST OF KING ROAD	4	2	2WU	0.42	32 3.	4 4.16	1		62				5.880	4,234	1		1 1	l							39	5
	TOTAL FOR	MAP NO.	.4		-	-		0.42			 		62			1	5,880	4,234			1	_							39	5
								0.42	-	+	1		62			1.0000	5,880	4,234	†		1						1		39	5
	TOTAL FOR PRO	DJ NO. 492	218.23				-	0.42		_						2.0000		0,114	t			1								44
																		,												
		П		RESURFACING - FROM LAMONT RD			\neg			1								1			Г					1				
49218.24	Cumberland, Hoke	5	MANCHESTER ROAD	TO C.J. WEST OF BLUES RD	8	2	2WU	5.03	32	5.03	I	1	192	1		1	53,485	38,338	116	1	I	l	53,485	38,338	116	1	1		340	1
	TOTAL FOR	MAP NO			 	- 1		5.03			1	1	192	1		1	53,485	38,338	116		t		53,485	38,338	116	1			340	\vdash
		T T		FDR - FROM CJ WEST OF BLUES RD	\vdash	-	_	- /	-	+	1	1		1			55,155	00,000	T	I	t		00,.00	00,000		1	1			t
49218.24	Hoke	6	MANCHESTER ROAD	TO CJ EAST OF MORGANTON RD	6	2	2WU	10.61	24	10.61	312	60	400	3	48	1	112,173	68.081	I	1	I	l	112.173	68.081	1	1	1		705	1
102.20.24	TOTAL FOR	MARNO			Ť	-		10.61		10.0.	312	60	400	3	48	1	112,173	68,081			_	_	112,173	68,081		+	_	-	705	
					-	-		15.64		+	312	60	592	3	48	1.0000	165,658		116		_	_	165,658	106,419	116	 	_		1,045	
1	TOTAL FOR PRO	DJ NO. 492	218.24		\vdash		_	10.04	-	+	312	30	J92		40	1.3000		2,077	110		-			,077	*10	+	-	_		045
\vdash					ш												2/2	2,0//					2/2	,0,7		1			1,0	
\vdash				PAVEMENT MARKINGS - FROM KING		_	_	_									_					_	_							
40010.05	Hoke	,	ATF ROAD	RD TO C.J.	I	2		0.9	24	0.9	I	1	I	1			9,600	9,600	I	1	I	l	1		1	1	1		59	1
49218.25		MAD VO		ND IOCJ.	\vdash	4			24	0.9	-	-		-		1 1				-	-						+			
	TOTAL FOR	MAP NO.	.7		\vdash	-		0.9	-	-	+					4 000	9,600	9,600			-		_	-		+	-		59	\leftarrow
1	TOTAL FOR PRO	J NO. 49:	218.25		\vdash	\vdash	\rightarrow	0.9		-						1.000	9,600	9,600						l			-		59	
					ш		_						I				19	9,200								1	1		5	59
1	GRAND	TOTAL			oxdot	\vdash	_	25.36		—	438	100	929	6	96	1.000		182,274	116	45	2	1		162,243	116	45	1	1	1,711	12
	Olburb				ı I					- 1	1	1	ı	1	1	1	452	2,341	1	I	1 :	3	410	,633	1	1	1 :	2	1.	723











STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

HOKE COUNTY



PHASING

STEP 1) USING ROADWAY STANDARD DRAWING (RSD) 1101.02, 3 OF 9, INSTALL ALL ROAD CLOSHER STONING AND DEVICES ON KING ROAD. COVER STONS USING AN APPROVED METHOD PER THE DISCRETION OF THE

- NOTE: INSTALL ROAD CLOSURE BARRICADES (TYPE III WITH BARRICADE MOUNTED SIGN RI1-2 ATTACHED) AT MORGANTON AND KING, AND AT PLANK AND KING.

THE CONTRACTOR SHALL COMPLETE STEP 2 BY MAY 1, 2025. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

STEP 2) WHEN READY TO CLOSE THE ROADWAY, UNCOVER THE CLOSURE SIGNING, CLOSE KING ROAD AND CONSTRUCT ROADWAY, INCLUDING THE REALIGNMENT OF THE KING RD/PLANK RD INTERSECTION. OPEN KING RD UPON COMPLETION.

- NOTE: CONTRACTOR SHALL ALWAYS MAINTAIN ACCESS TO ATF ROAD DURING CONSTRUCTION ON FINAL PAVED SURFACE. WORK SHALL BE PHASED ALLOWING ACESS EITHER FROM THE NORTH OR SOUTH ON THE FINAL SURFACE.

STEP 3) USING RSD 1101.03, 2 OF 9, INSTALL ALL ROAD CLOSURE SIGNING AND DEVICES ON MANCHESTER ROAD. COVER SIGNS USING AN APPROVED METHOD PER THE DISCRETION OF THE ENGINEER.

- NOTE: INSTALL ROAD CLOSURE BARRICADES (TYPE III WITH BARRICADE MOUNTED SIGN RI1-2 ATTACHED) AT MORGANTON AND MANCHESTER, AND AT MORRISON BRIDGE AND MANCHESTER.

WHEN READY TO CLOSE THE ROADWAY UNCOVER THE ROAD CLOSURE SIGNING, CLOSE MANCHESTER ROAD, AND CONSTRUCT ROADWAY.

THE CONTRACTOR SHALL COMPLETE STEP 4 IN 45 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

STEP 4) INSTALL OFFSITE DETOUR SIGNING AND DEVICES ON US 1, NC 24, AND NC 87. THEN, INSTALL ROAD CLOSURE BARRICADES (TYPE III) WITH BARRICADE MOUNTED SIGN R11-2 ATTACHED) AT THE FOLLOWING

.OCATIONS:
- MORRISON BRIDGE RD AND RIVERVIEW DR WHEN COMPLETING
FDR SECTION BETWEEN MORRISON BRIDGE RD AND BLUES RD.
- LAMONT AND MANCHESTER JUST WEST OF JOHN NEIL SHAW RD
WHEN MORRISON BRIDGE RD CANNOT BE ACCESSED.

CONSTRUCT MANCHESTER FROM MORRISON BRIDGE ROAD TO BLUES RD UP TO AND INCLUDING THE FINAL LIFT OF SURFACE COURSE AND FINAL PAYEMENT MARKINGS.

- NOTE: MANCHESTER RD FROM MORRISON BRIDGE RD TO BLUES RD TO REMAIN OPEN DUBING THE MANCESTER FDR FROM MORRISON BRIDGE RD TO MORGANION RD.

UPON COMPLETION, OPEN MANCHESTER ROAD BACK TO THE EXISTING PATTERN.

STEP 5) USING LANE CLOSURES, RESURFACE MANCHESTER ROAD, MORRISON BRIDGE ROAD, PLANK, AND MORGANTON ROAD. [SEE ROADWAY PLANS]

USING LANE CLOSURES, INSTALL PAVEMENT MARKINGS ON ATF ROAD.

STEP 6) OPEN ALL ROADS TO THE FINAL TRAFFIC PATTERN AND REMOVE ALL ROAD CLOSURE SIGNING AND TEMPORARY TRANSPORATION MANAGEMENT DEVICES.

INDEX OF SHEETS

SHEET NO.

SHEET NO.

TMP-01

49218.16,etc

PROJECT

TITLE
TITLE SHEET, INDEX OF SHEETS, LIST OF
APPLICABLE ROADWAY STANDARD DRAWINGS, TMP-01

AND PHASING

TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)

TMP-03 ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

ROADWAY STANDARD **DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

TITLE

STD. NO.

1101.01 WORK ZONE WARNING SIGNS 1101.02 TEMPORARY LANE CLOSURES 1101.03 TEMPORARY ROAD CLOSURES TRAFFIC CONTROL DESIGN TABLES 1101.11 1110.01 STATIONARY WORK ZONE SIGNS PORTABLE WORK ZONE SIGNS 1110.02

1145.01 BARRICADES

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PLANS PREPARED BY:

R. K. MURPHY, J.R., P.E.

D. ALLEN HAYES, E.I.

NCDOT CONTACTS:

MICHAEL RICKETTS, P.E. PROIECT ENGINEER

PROJECT DESIGN ENGINEER





APPROVED: SEAL

PROJ. REFERENCE NO. SHEET NO. 49218.16,etc. TMP-01A

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.

TITLE

TEMPORARY ROAD CLOSURES 1110.01 1145.01 STATIONARY WORK ZONE SIGNS BARRICADES

LEGEND

GENERAL NORTH ARROW TRAFFIC CONTROL DEVICES

III III BARRICADE (TYPE III)

TEMPORARY SIGNING

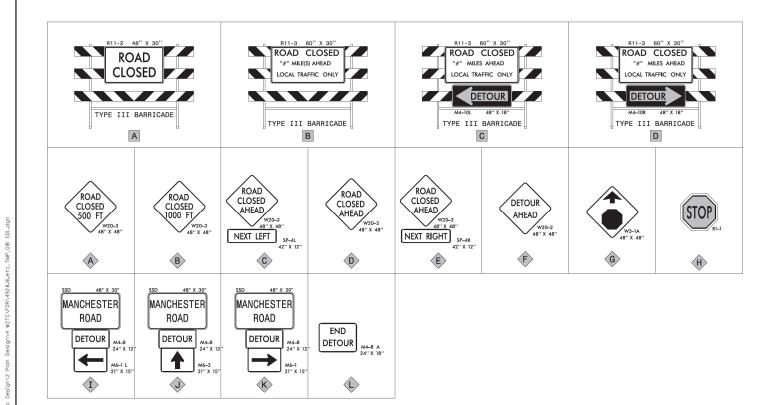
- STATIONARY SIGN





LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND

PROJ. REFERENCE NO. SHEET NO. 49218.16, etc. TMP-01B



BARRICADES
-WITH MOUNTED SIGNING









SIGN AND DEVICE LEGEND

PROJ. REFERENCE NO. SHEET NO. 49218.16.etc. TMP-02

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) LIQUIDATED DAMAGES WILL NOT APPLY WHILE A ROAD IS CLOSED IN ACCORDANCE WITH PROJECT PHASING. CONTRACTOR SHALL NOT CLOSE OR NARROW A LANE OF TRAFFIC ON ALL MAPS, DETAIN AND/OR ALTER THE TRAFFIC PLOY ON OR DURING HOLIDAY WEEKENDS, SPECIAL EVENTS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING

1. ALL MAPS

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:30 A.M. DECEMBER 31st TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 6:30 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:30 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:30 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:30 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:30 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:30 A.M. TUESDAY TO 8:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:30 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS
- 9. HOLTDAYS AND HOLTDAY WEEKENDS SHALL INCLUDE NEW YEAR'S EASTER, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY,
 THANKSGIVING, AND CHRISTMAS. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT LANE CLOSURES ARE NOT REQUIRED DURING THESE PERIODS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

GENERAL NOTES

LANE AND SHOULDER CLOSURE REQUIREMENTS

- REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER WHEN PERSONNEL AND/OH EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACTLITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDEO OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED
- DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION
- DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (WB-11) X FT.MI IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

I) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

- INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS,

AND

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION,

ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

MISCELL ANEOUS

IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE THE -IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON GRANGE "LOOSE GRAVEL" SIGNS (WB-7) AND BLACK ON ORANGE "AVEWENT SIGNS (WB-3) SOO FT AND THE STATE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAYED AREAS.

MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES: OFF-SITE DETOURS ONE-LANE, TWO WAY OPERATION (FLAGGING)

1223 Jones Franklin Ro Raleigh, N.C. 27606 License No. F-0377

RANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION





TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)

PROJ. REFERENCE NO. SHEET NO. 49218.16, etc. TMP-03

SIGN NUMBER: name BACKG COLOR: Orange COPY COLOR: Black TYPE: D QUANTITY: 1 Y WID HT SYMBOL X SIGN WIDTH: 4'-0" HEIGHT: 2'-6" TOTAL AREA: 10.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.63" RADII: 1.5" MAT'L: 0.125" (3.2 mm) ALUMINUM NO. Z BARS:

LENGTH:

USE NOTES:

- Legend and border(except those that are colored black) shall be direct applied Grade A sheeting.
- 2. Background shall be Grade A, B, or C reflective sheeting.
- 3. Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum with Grade A reflective sheeting and demountable.
- 4. Bottom panel shall be yellow Grade C sheeting.
 Legend shall be direct applied black non-reflective
 sheeting. Arrow shall be on 0.032" aluminum,
 black non-reflective sheeting an demountable.
 Yellow panel is:

DESIGN BY: DAH CHECKED BY: WEI Nov 7, 2023
PROJECT ID: 49218.21 LOCATION: OFFSITE DETOUR DIV: 8



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

						L	.ett	er 1	oca	tion	s ar	ера	anel	edg	e to	10	wer	lef	t co	rner	•										Series/Size
М	Α	N	С	Н	Е	S	Т	Е	R																						C 2000
5	9.4	13.6	17.6	21.5	25.6	29	32.6	36.1	39.7																						38
R	0	Α	D																												C 2000
15.7	19.5	23.4	27.7																												15.3
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AME: 492	218.21_	TMP_02	OSD													1								11	'		 NORTH	CARO	LINA D	D.O.T.	. SIGN DE

NOTES

1) REFER TO ROADWAY STANDARD DRAWINGS 1101.03, SHEETS 1 & 2 OF 9 FOR APPLICABLE NOTES AND ROAD CLOSURE SIGNING AND DEVICES.

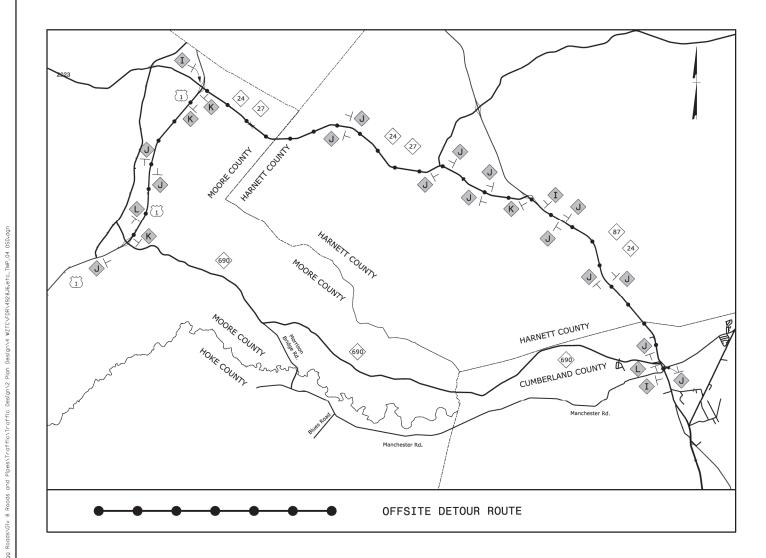






SPECIAL SIGN DESIGN

PROJ. REFERENCE NO. SHEET NO. 49218.16,etc. TMP-04



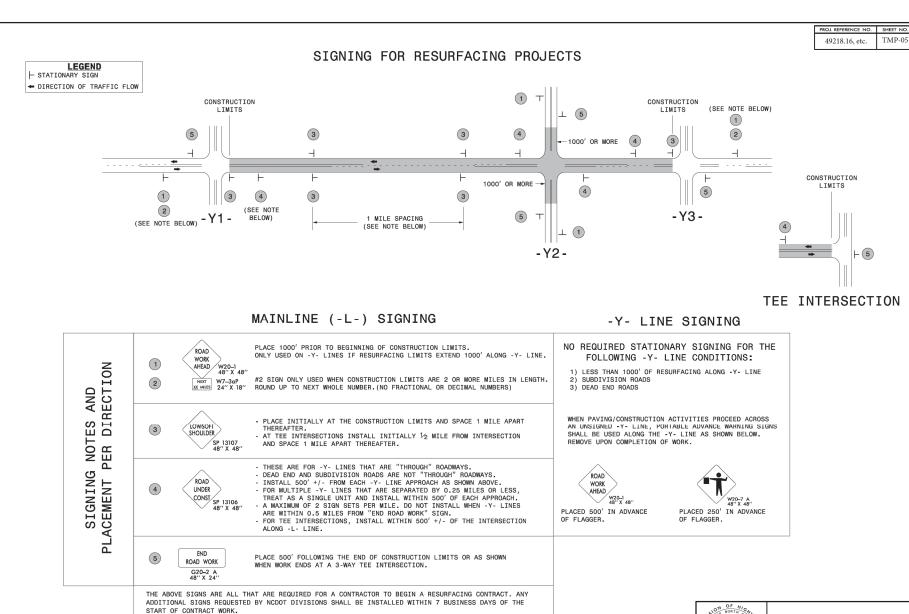
NOTES:
1) REFER TO SHEET TMP-01B FOR SIGN AND DEVICE LEGEND.







OFFSITE DETOUR



MAPS LESS THAN 2 MILES

FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WANNINGS SIGNS.



ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

r.I.P.: 49218.16.et

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN HOKE COUNTY

49218.16,etc. PMP-01

APPROVED: 4/22/2024

DATE: 4/22/2024

SEAL AUTUMN.

SEAL OINT

DOCUMENT NOT CONSIDERED FINAL

INDEX

SHEET NO. PMP-01 DESCRIPTION

PAVEMENT MARKING PLAN TITLE AND

SCHEDULE SHEET

PMP-02

PAVEMENT MARKING DETAIL

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

 STD. NO.
 TITLE

 1205.01
 PAVEMENT MARKINGS - LINE TYPES AND OFFSETS

 1205.02
 PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS

 1205.04
 PAVEMENT MARKINGS - INTERSECTIONS

 1205.08
 PAVEMENT MARKINGS - TURN LANES

 1205.08
 PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES

 1205.01
 RAISED PAVEMENT MARKERS - INSTALLATION SPACING

 1251.01
 RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

FINAL PAVEMENT MARKING SCHEDULE

SYMBO	L DESCRIPTION	PAY ITEM
T20		THERMOPLASTIC (6", 90 MIL)
	WHITE SOLID LANE LINE	THERMOPLASTIC (6", 90 MIL)
T23	3 FT 9 FT./SP WHITE MINISKIP	THERMOPLASTIC (6", 90 MIL)
T24	2 FT 6 FT./SP WHITE MINISKIP	THERMOPLASTIC (6", 90 MIL)
T33	YELLOW DOUBLE CENTER	THERMOPLASTIC (6", 90 MIL)
T61	WHITE STOPBAR	THERMOPLASTIC (24", 90 MIL)
T70	LEFT TURN ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MIL)
T71	RIGHT TURN ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MIL)
MA	YELLOW & YELLOW	PERMANENT RAISED MARKER
MB	CRYSTAL & RED	PERMANENT RAISED MARKER

PLAN SUBMITTED TO:

MICHEAL RICKETTS, P.E., PROJECT MANAGER



GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME MARKING MARK ALL ROADS THERMOPLASTIC PERM

ALL ROADS THERMOPLASTIC PERMANENT RAISED MARKER

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

F) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

G) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

H) ALL STATION ARE CONSIDERED +/- UNLESS OTHERWISE SHOWN ON THE PLANS.

PLAN PREPARED BY: Wetherill Engineering, Inc.

R.K. MURPHY, J.R., P.E.
D. ALLEN HAYES, E.I.

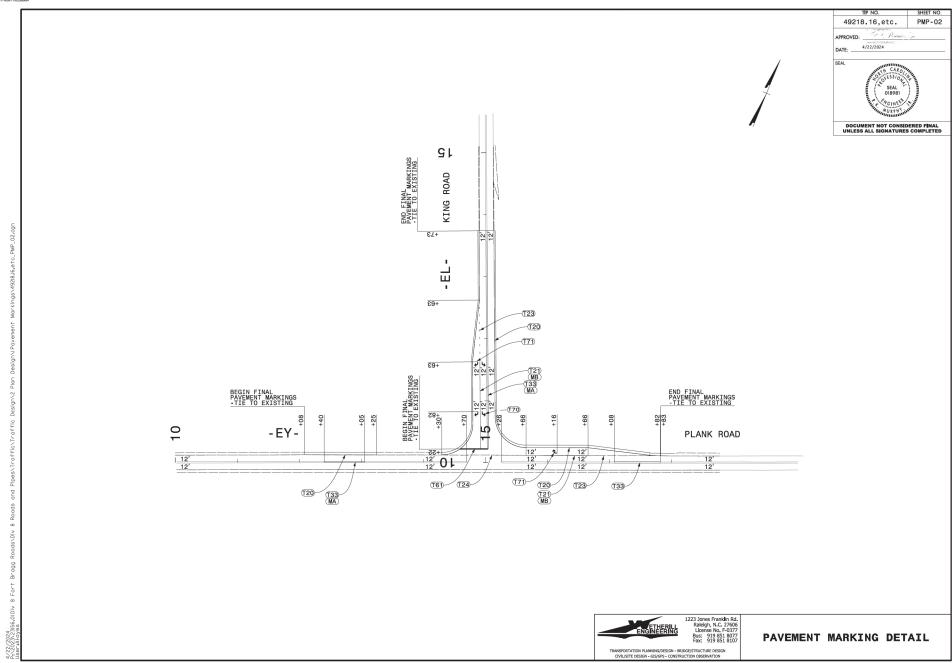
PROJECT MANAGER
TRAFFIC DESIGN



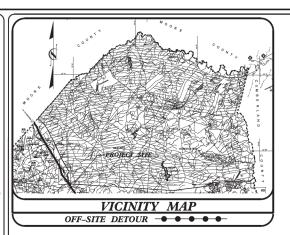
WSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN

7,23,202,4

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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

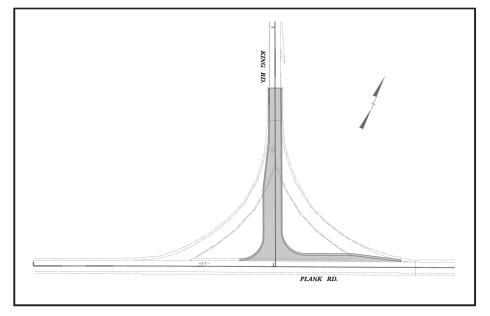
PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

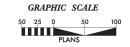
HOKE COUNTY

LOCATION: INTERSECTION OF PLANK RD. AND KING RD. TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET TOTAL NO. SHEET
N.C.	49218.16	EC-1
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

THIS PROJECT CONTAINS **EROSION CONTROL PLANS** FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.





THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared In the Office of:

WETHERILL ENGINEERING, INC.

1223 JONES FRANKLIN ROAD RALEIGH, NC 27606

Designed by:

KATIE ESTEP

4485 LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

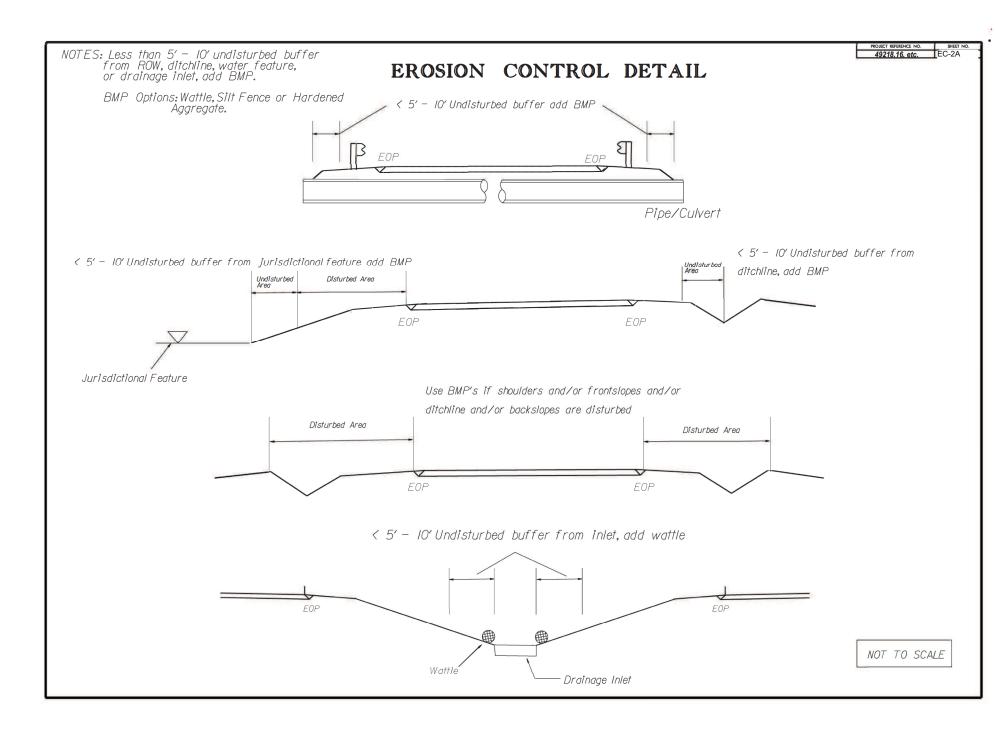
The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENC	E NO.	SHEET NO.		
49218.16	49218.16			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER		

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std.#	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	>
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch	TSD	1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	A
1630.05	Temporary Diversion	TD	1635.02	Rock Pipe Inlet Sediment Trap Type B	в
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	C
1630.07	Skimmer Basin	9	1636.01	Excelsior Wattle Check with Flocculant	(
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	<
1630.09	Earthen Dam with Skimmer	D	1636.01	Coir Fiber Wattle Check with Flocculant	\bigcirc
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	⊢ EW ⊣
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	CFW
1632.01	Type A	··A 🔲	1000.00		
1632.02	Type B	ВД	1636.03	Excelsior Wattle Barrier	—EW—EW—EW—
1632.03	Type C		1636.03	Coir Fiber Wattle Barrier	—CFW—CFW—



DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE N
49218.16
ROADWAY DESIGN ENGINEER

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	I4 DAYS	7 DAYS FOR SLOPES GREATER THAN 50'IN LENGTH WITH SLOPES STEEPER THAN 4:1.
SLOPES SHITO MH	I4 DATS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HOW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	I4 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HOW ZONES

