

TIP NO.: R-5502

CONTRACT NO.: C203134

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**BERTIE COUNTY**



LOCATION: Bertie County NC 308 - From NC 11 to US 13

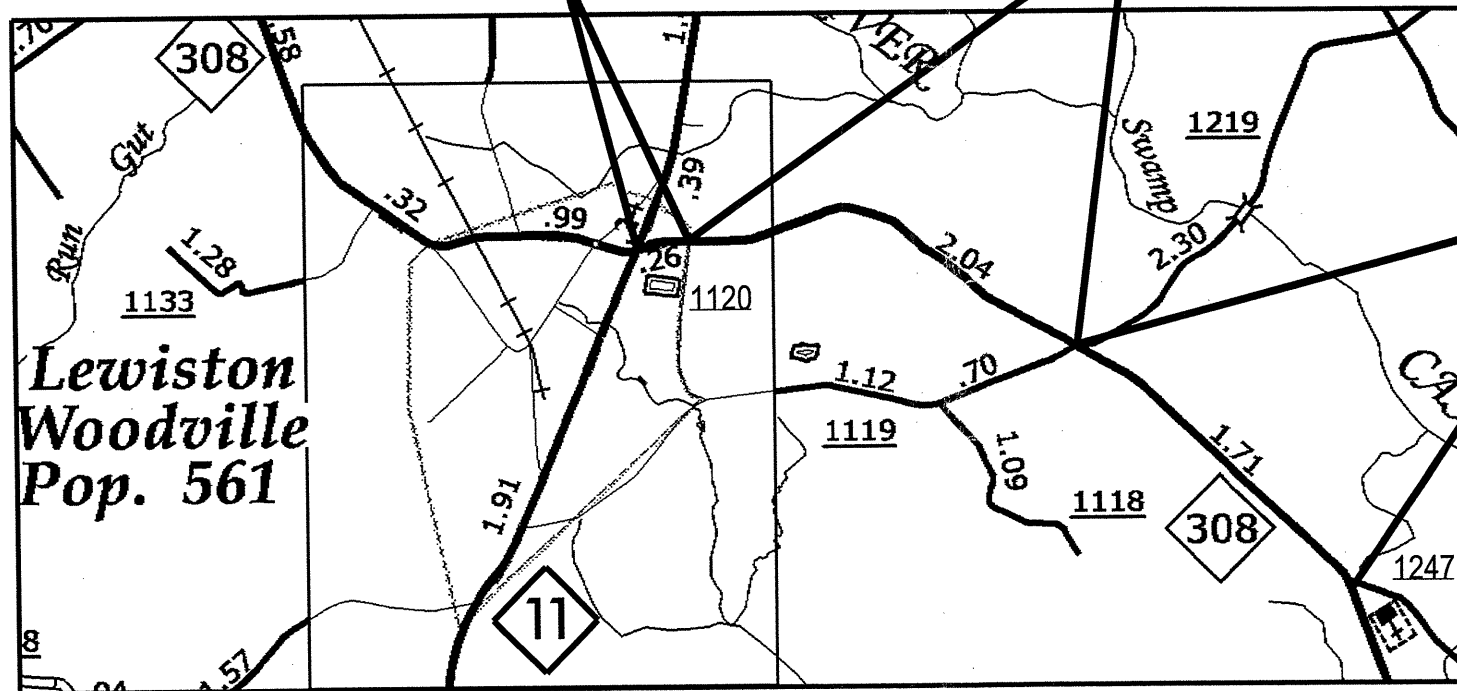
TYPE OF WORK: Milling, Widening, Resurfacing, and Shoulder Reconstruction

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5502	1	
STATE PROJ. NO.	P.A. NO.	DESCRIPTION	
45455.1.1	STP-0308(7)	PE	
45455.3.1	STP-0308(7)	CONSTRUCTION	

**MAP 1**

**MAP 2**

**MAP 3**



NOT TO SCALE

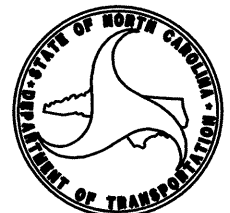
**PROJECT LENGTH**

LENGTH ROADWAY PROJECT MAP 1 = 0.26 MILES  
 LENGTH ROADWAY PROJECT MAP 2 = 2.00 MILES  
 LENGTH ROADWAY PROJECT MAP 3 = 1.76 MILES  
 SUBTOTAL LENGTH STATE PROJECT = 4.02 MILES

Prepared in the Office of:  
**DIVISION ONE, DISTRICT TWO OFFICE**  
 230 NC 42 WEST, AHOSKIE, NC 27910  
 2012 STANDARD SPECIFICATIONS

LETTING DATE:  
 October 16, 2012

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA



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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**BERTIE COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5502	2	
STATE FUNDING	P.L. NO.	DESCRIPTION	
45455.1.1	STP-0308(7)	PE	
45455.3.1	STP-0308(7)	CONSTRUCTION	

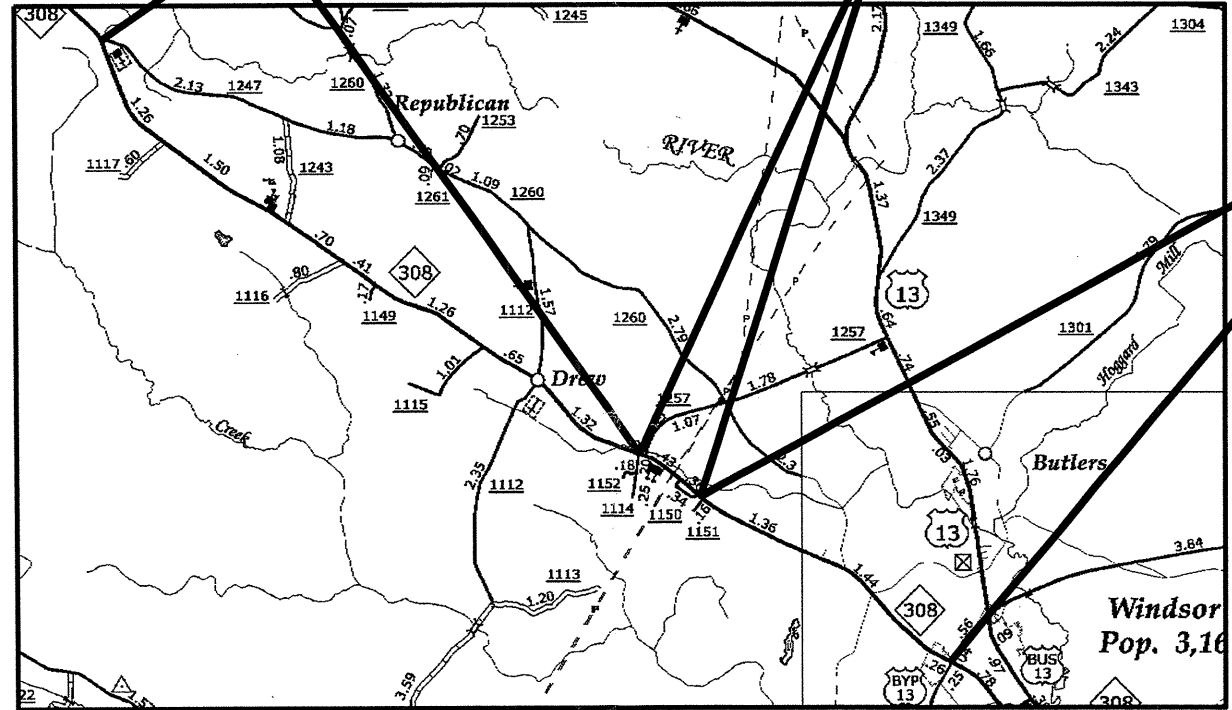


LOCATION: Bertie County NC 308 - From NC 11 to US 13  
TYPE OF WORK: Milling, Widening, Resurfacing, and Shoulder Reconstruction

**MAP 4**

**MAP 5**

**MAP 6**



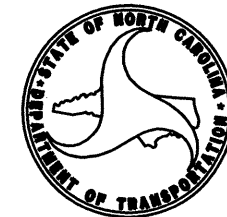
NOT TO SCALE

PROJECT LENGTH

- LENGTH ROADWAY PROJECT MAP 4 = 7.09 MILES
- LENGTH ROADWAY PROJECT MAP 5 = 0.33 MILES
- LENGTH ROADWAY PROJECT MAP 6 = 3.42 MILES
- SUBTOTAL LENGTH STATE PROJECT = 10.84 MILES
- TOTAL LENGTH STATE PROJECT = 14.86 MILES

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230 NC 42 WEST, AHOSKIE, NC 27910  
2012 STANDARD SPECIFICATIONS

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA



PROJECT REFERENCE NO.	SHEET NO.
R-5502	3

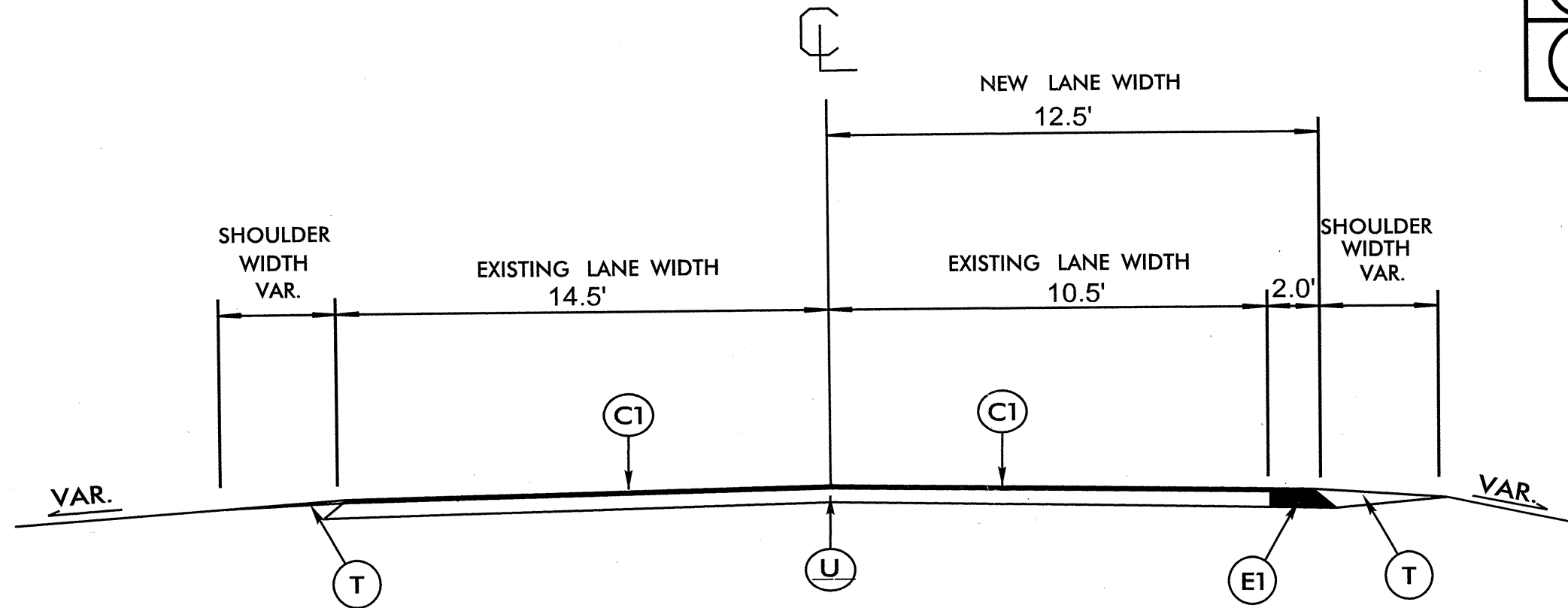
NOTES:

ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER

EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

<b>C1</b>	PROP. APPROX. 1.5" ACSC TYPE S9.5B AT AN AVERAGE RATE OF 168.0 LBS. PER SQ. YD.
<b>E1</b>	PROP. APPROX. 5.5" ACBC, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
<b>U</b>	EXISTING PAVEMENT
<b>T</b>	SHOULDER RECONSTRUCTION



**TYPICAL SECTION #1**

**USE WITH MAP 1**

PROJECT REFERENCE NO.	SHEET NO.
R-5502	4

NOTES:

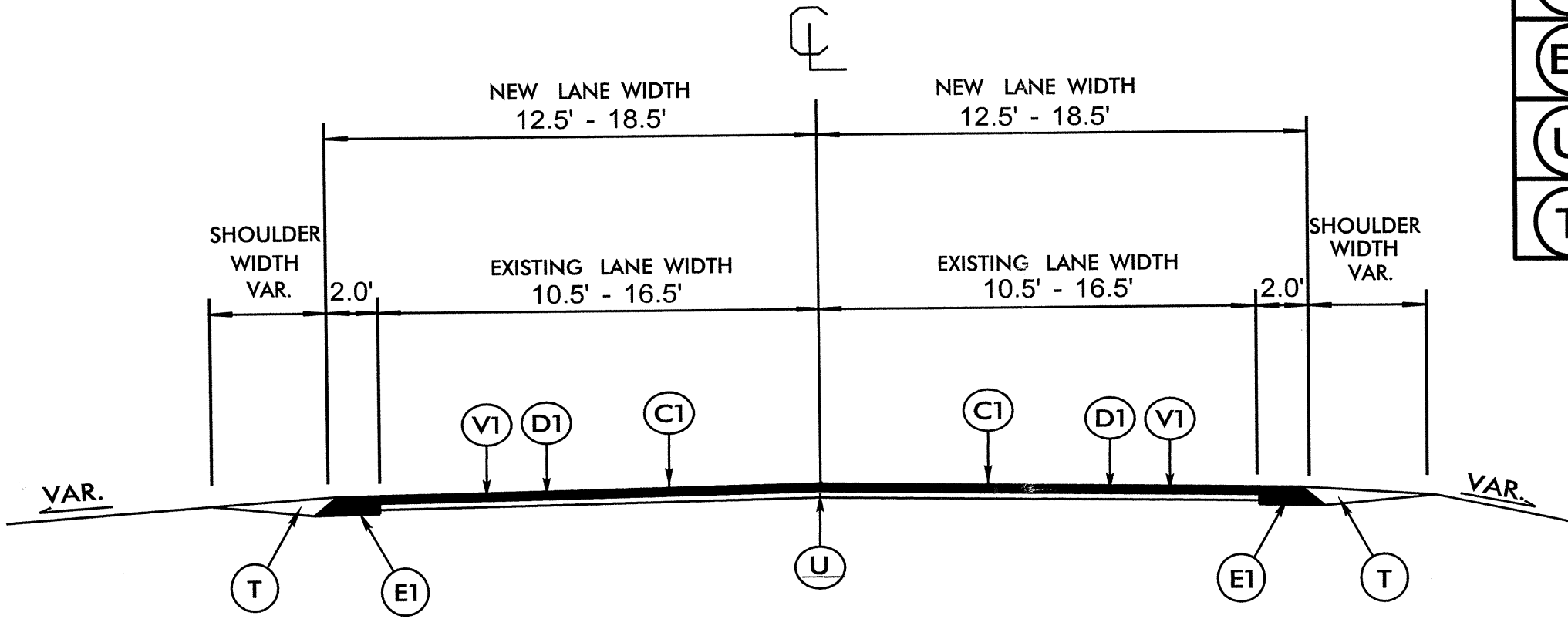
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER

EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

6" MILLING IS TO BE PERFORMED AT LOCATIONS DIRECTED BY THE ENGINEER, TO ALLOW FOR PATCHING EXISTING PAVEMENT

(V1)	2.5" MILLING BITUMINOUS PAVEMENT
(C1)	PROP. APPROX. 1.5" ACSC TYPE S9.5B AT AN AVERAGE RATE OF 168.0 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 2.5" ACIC TYPE I19.0B AT AN AVERAGE RATE OF 285.0 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.5" ACBC, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(U)	EXISTING PAVEMENT
(T)	SHOULDER RECONSTRUCTION



***TYPICAL SECTION #2***

**USE WITH MAPS 2 & 4-6**

PROJECT REFERENCE NO.	SHEET NO.
R-5502	5

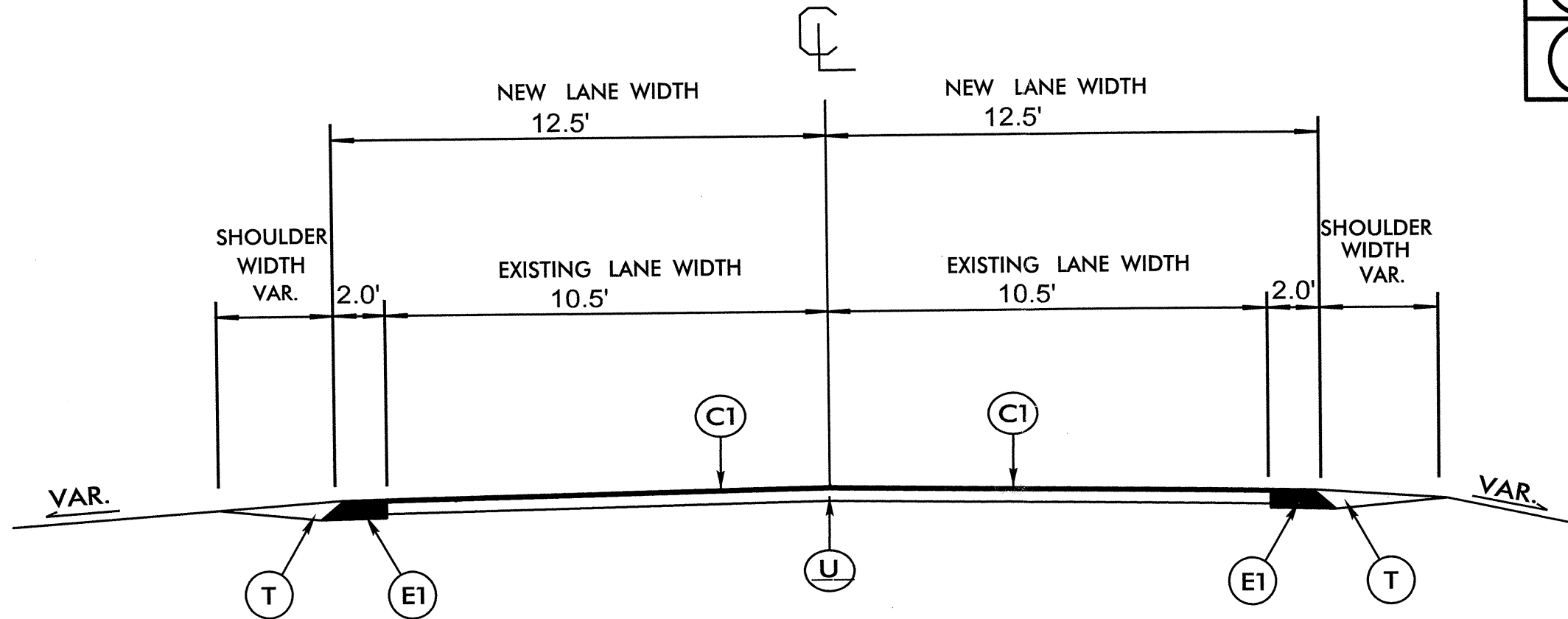
NOTES:

ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER

EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

<b>(C1)</b>	PROP. APPROX. 1.5" ACSC TYPE S9.5B AT AN AVERAGE RATE OF 168.0 LBS. PER SQ. YD.
<b>(E1)</b>	PROP. APPROX. 5.5" ACBC, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
<b>(U)</b>	EXISTING PAVEMENT
<b>(T)</b>	SHOULDER RECONSTRUCTION



## TYPICAL SECTION #3

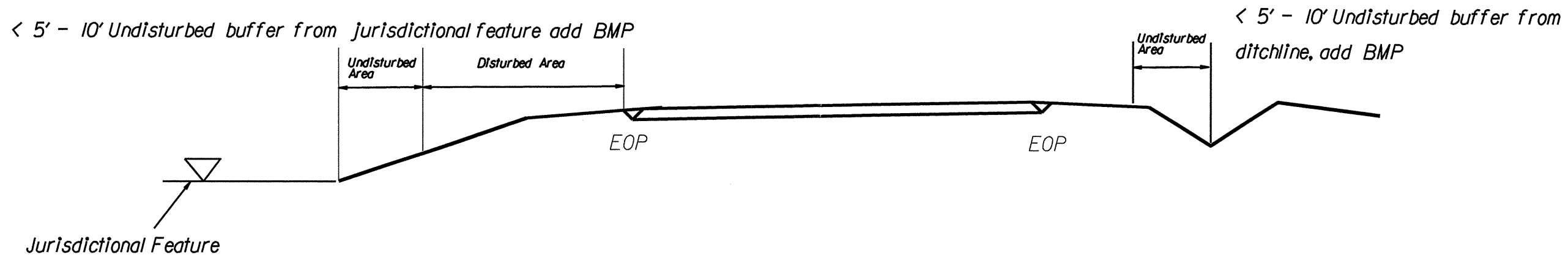
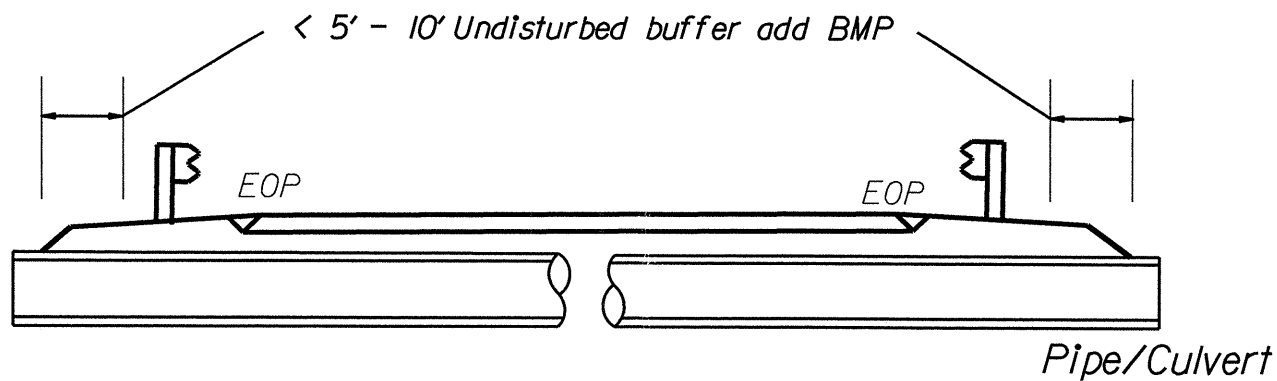
USE WITH MAP 3



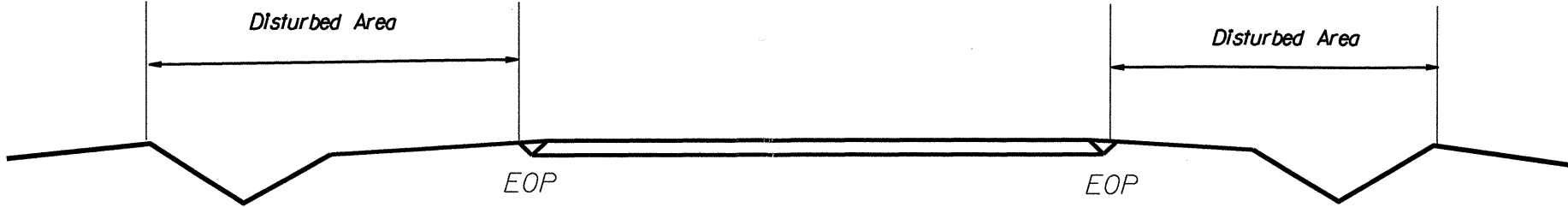
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

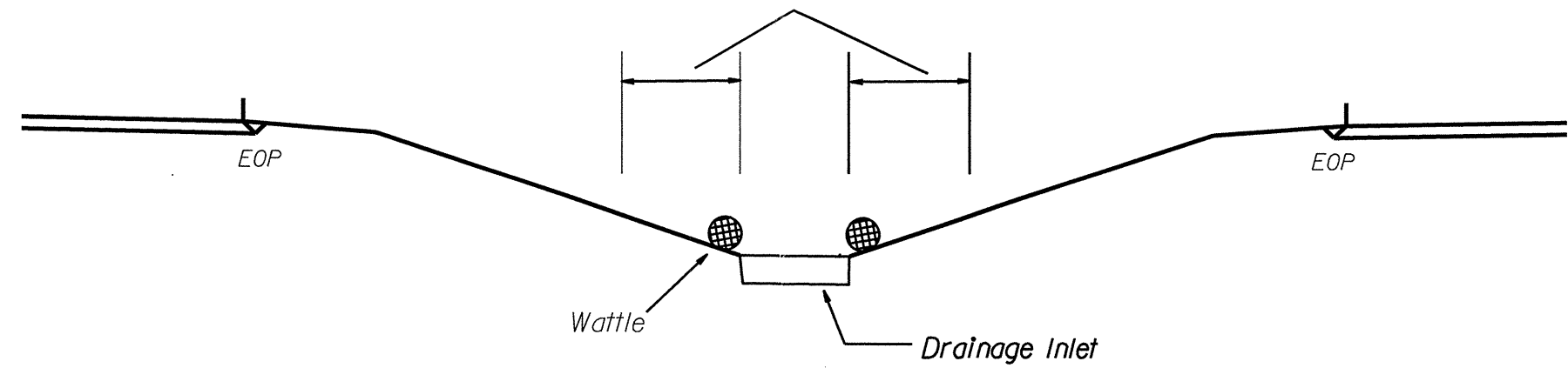
# EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



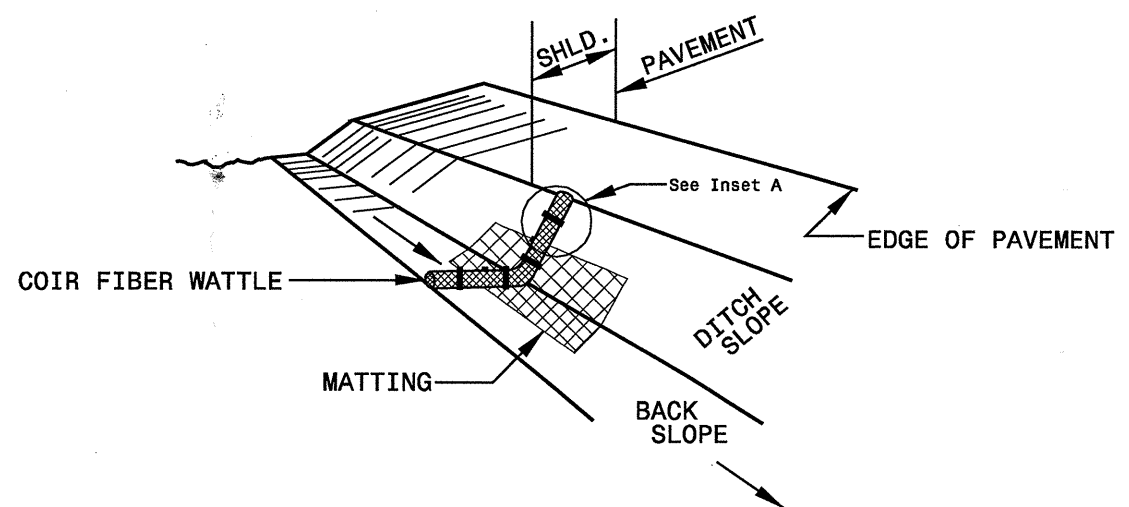
< 5' - 10' Undisturbed buffer from inlet, add wattle



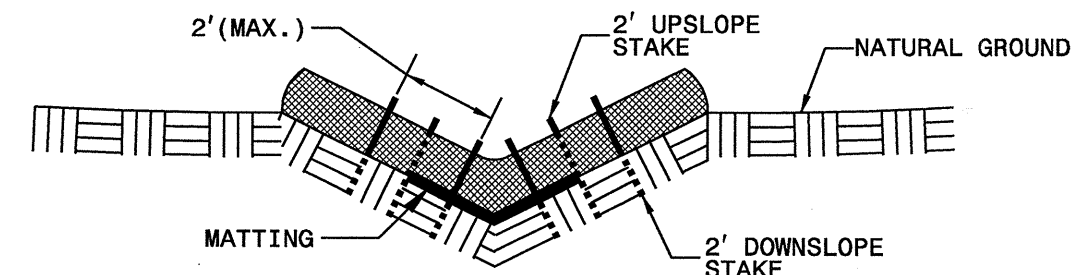
NOT TO SCALE

PROJECT REFERENCE NO. R-5502	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

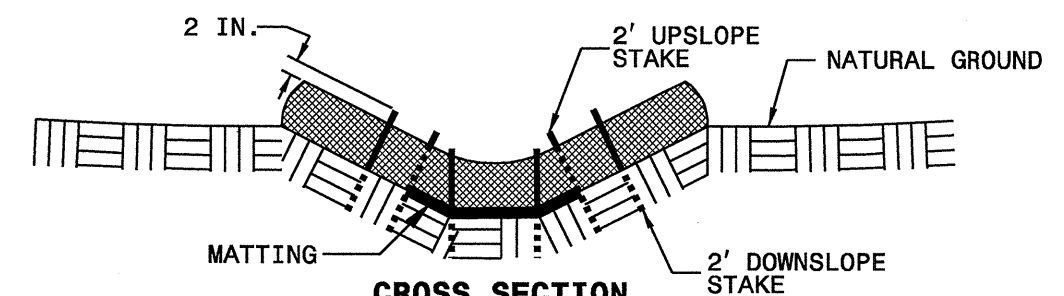
# COIR FIBER WATTLE DETAIL



**ISOMETRIC VIEW**

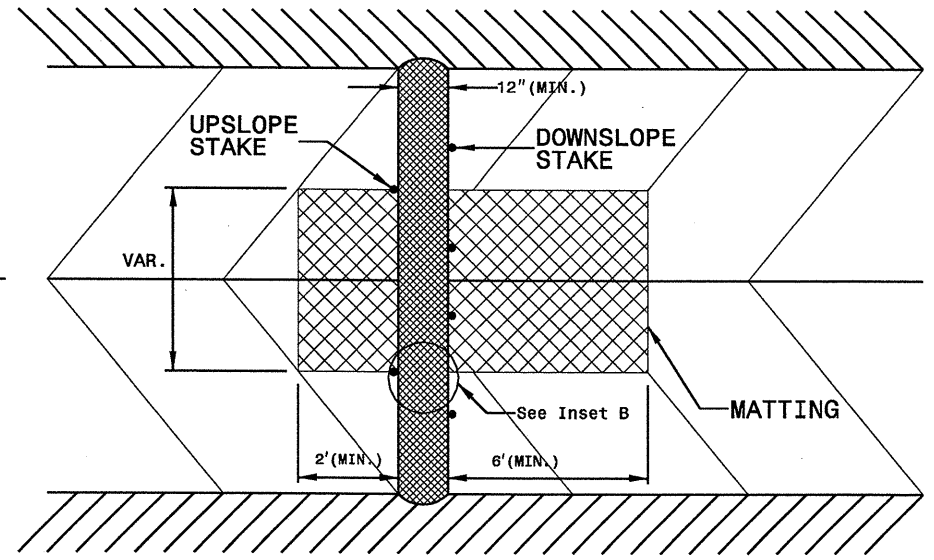
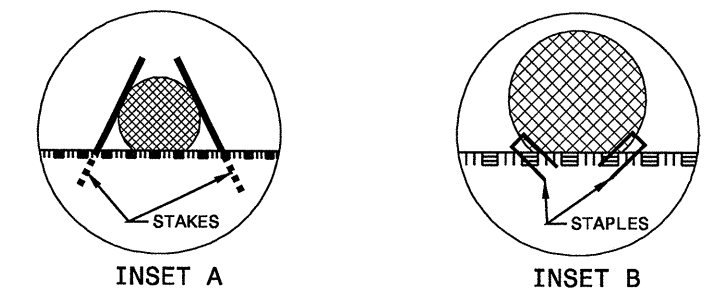


**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

- NOTES:
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
  - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
  - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



**TOP VIEW**



PROJECT NO.		SHEET NO.	TOTAL NO.
R-5502 45455.3.1		9	

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL NO	LENGTH MI	WIDTH FT	NEW WIDTH	FINAL SURFACE TESTING REQUIRED	MOBILIZATION LS	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	2.5" MILLING SY	BASE COURSE, B25.0B TONS	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS
R-5502	Bertie	1	NC 308	FROM NC 11 TO SR 1120	1	0.26	25	27	NO	1	60	100	0.52		140		425
		2	NC 308	FROM SR 1120 TO SR 1119	2	2.00	21	25	YES	*	480	120	4.00	25,000	2,100	4,770	2,750
		3	NC 308	FROM SR 1119 TO SR 1247	3	1.76	21	25	NO	*	480	105	3.52		1,800		2,450
		4	NC 308	FROM SR 1247 TO SR 1114	2	7.09	21	25	YES	*	1,700	425	14.18	96,087	7,400	16,850	9,700
		5	NC 308	FROM SR 1114 TO END TURN LANE	2	0.33	33	37	YES	*	80	25	0.66	7,000	340	1,200	700
		6	NC 308	FROM END TURN LANE TO US 13	2	3.42	21	25	YES	*	825	205	6.84	50,220	3,550	8,150	4,725
<b>GRAND TOTAL</b>						<b>14.86</b>				<b>1</b>	<b>3,625</b>	<b>980</b>	<b>29.72</b>	<b>178,307</b>	<b>15,330</b>	<b>30,970</b>	<b>20,750</b>

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL NO	LENGTH MI	WIDTH FT	NEW WIDTH	FINAL SURFACE TESTING REQUIRED	MOBILIZATION LS	ASPHALT BINDER FOR PLANT MIX TONS	ASPHALT PLANT MIX, PAVEMENT REPAIR TONS	PATCHING EXISTING PAVEMENT TONS	ADJUSTMENT OF MANHOLES EA	ADJUSTMENT OF METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	COIR FIBER MAT SY	COIR FIBER WATTLE LF	SEED & MULCHING AC
R-5502	Bertie	1	NC 308	FROM NC 11 TO SR 1120	1	0.26	25	27	NO	1	32			1	1				0.37
		2	NC 308	FROM SR 1120 TO SR 1119	2	2.00	21	25	YES	*	486	600	100			200	75	80	2.91
		3	NC 308	FROM SR 1119 TO SR 1247	3	1.76	21	25	NO	*	226					400	150	160	2.60
		4	NC 308	FROM SR 1247 TO SR 1114	2	7.09	21	25	YES	*	1,716	500	525			600	225	240	10.31
		5	NC 308	FROM SR 1114 TO END TURN LANE	2	0.33	33	37	YES	*	115								0.50
		6	NC 308	FROM END TURN LANE TO US 13	2	3.42	21	25	YES	*	831	150	250	1	1	300	125	120	5.10
<b>GRAND TOTAL</b>						<b>14.86</b>				<b>1</b>	<b>3,406</b>	<b>1,250</b>	<b>875</b>	<b>2</b>	<b>2</b>	<b>1,500</b>	<b>575</b>	<b>600</b>	<b>21.79</b>

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL NO	LENGTH MI	WIDTH FT	NEW WIDTH FT	TEMPORARY TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	24" X 120 M WHITE THERMO LF	THERMO CHARACTER 120 M (SCHOOL) EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	24" WHITE PAINT LF	PAINT CHARACTER (SCHOOL) EA	PAINT LT. ARROW EA	PAINT RT. ARROW EA	YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA
R-5502	Bertie	1	NC 308	FROM NC 11 TO SR 1120	1	0.26	25	27	1	2,800	2,700			50				5,509	3,379	150				25	
		2	NC 308	FROM SR 1120 TO SR 1119	2	2.00	21	25	*	21,520	13,200							64,657	39,659					140	
		3	NC 308	FROM SR 1119 TO SR 1247	3	1.76	21	25	*	19,000	11,596							37,811	23,192					150	
		4	NC 308	FROM SR 1247 TO SR 1114	2	7.09	21	25	*	77,000	47,500			50	6			228,801	140,342	150	18			500	
		5	NC 308	FROM SR 1114 TO END TURN LANE	2	0.33	33	37	*	3,552	4,400	400	300	50		11	1	10,532	6,475	150		22	2	50	20
		6	NC 308	FROM END TURN LANE TO US 13	2	3.42	21	25	*	37,700	23,400			100	6			110,494	67,775	300	18			250	
<b>GRAND TOTAL</b>						<b>14.86</b>			<b>1</b>	<b>161,572</b>	<b>102,796</b>	<b>400</b>	<b>300</b>	<b>250</b>	<b>12</b>	<b>11</b>	<b>1</b>	<b>457,804</b>	<b>280,822</b>	<b>750</b>	<b>36</b>	<b>22</b>	<b>2</b>	<b>1,115</b>	<b>20</b>
											<b>103,196</b>			<b>12</b>			<b>738,626</b>			<b>24</b>			<b>1,135</b>		