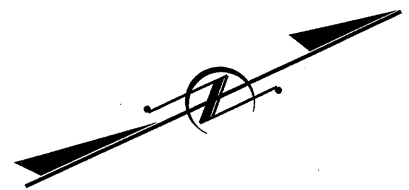


CONTRACT # R-5187 WBS ELEMENT 45227.3.ST1

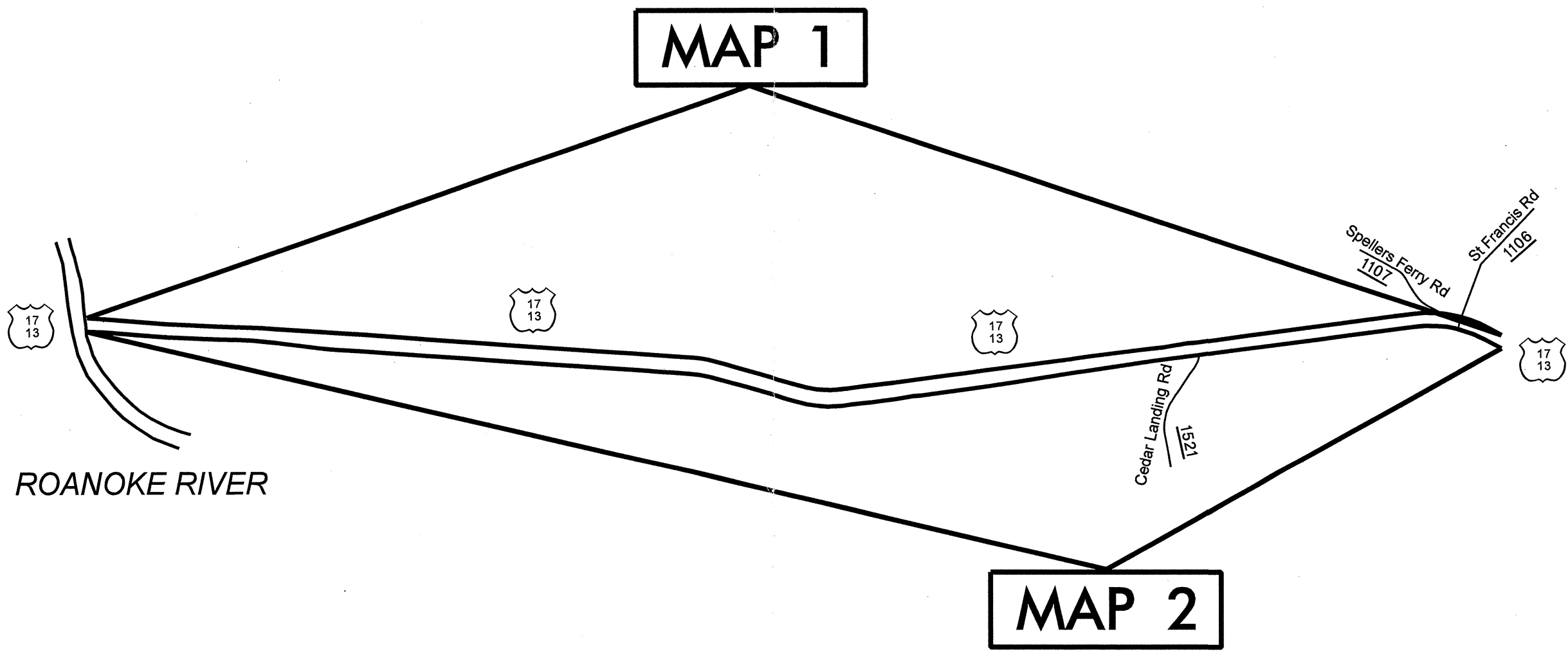
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**BERTIE COUNTY**

STATE	PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45227.3.ST1 - R5187	1	4
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



LOCATION: Bertie County US 13-17 - From SR 1106 to Roanoke River  
TYPE OF WORK: Milling, Resurfacing and Shoulder Reconstruction



NOT TO SCALE

PROJECT LENGTH	
45227.3.ST1 - MAP 1 .....	4.92 MILES
45227.3.ST1 - MAP 2 .....	4.92 MILES

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
113 Airport Dr., Edenton NC, 27932

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2006 STANDARD SPECIFICATIONS

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LETTING DATE:  
DECEMBER 15, 2009

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W. B. HOBBS, P.E.  
DIVISION PROJECT MANAGER

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C.E. SLACHTA  
PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
45227.3.ST1 R-5187	2

LEVELING COURSE, S4.75A SHALL BE PLACED ONLY IN TRAVEL LANES AT THE FOLLOWING APPROXIMATE LOCATIONS:

MAP 1 (SOUTH BOUND)  
 STATIONS 0+00 TO 85+25  
 STATIONS 90+25 TO 103+25  
 STATIONS 140+35 TO 143+35  
 STATIONS 223+00 TO 254+25

MAP 2 (NORTH BOUND)  
 STATIONS 0+00 TO 103+75  
 STATIONS 200+50 TO 260+00

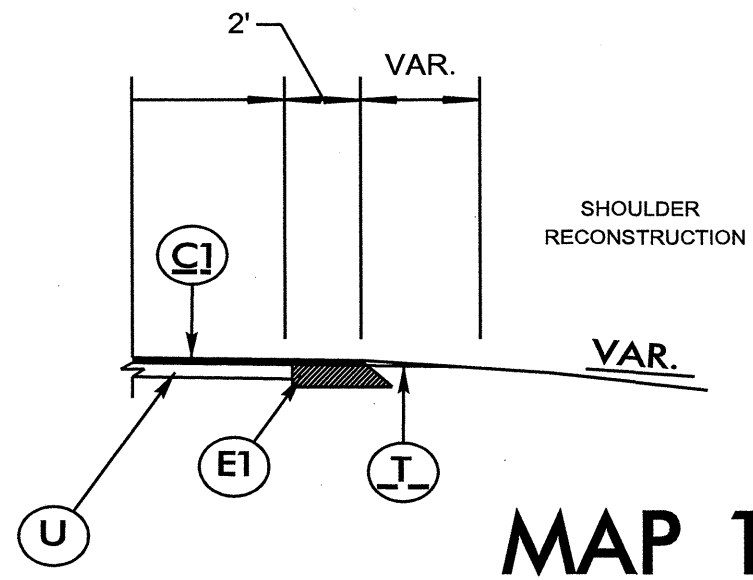
PROPOSED APPROXIMATE 5.5" ACBC, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.

BASE COURSE, B25.0B, WILL BE USED FOR WIDENING ONLY IN THE FOLLOWING LOCATIONS:

MAP 1 (SOUTH BOUND)  
 STATIONS 0+00 TO 3+75 RT  
 STATIONS 4+00 TO 5+75 RT  
 STATIONS 128+00 TO 133+00RT  
 STATIONS 148+00 TO 153+00LT

MAP 2 (NORTH BOUND)  
 STATIONS 107+00 TO 112+00 RT  
 STATIONS 246+25 TO 260+00 RT

### WIDENING DETAIL



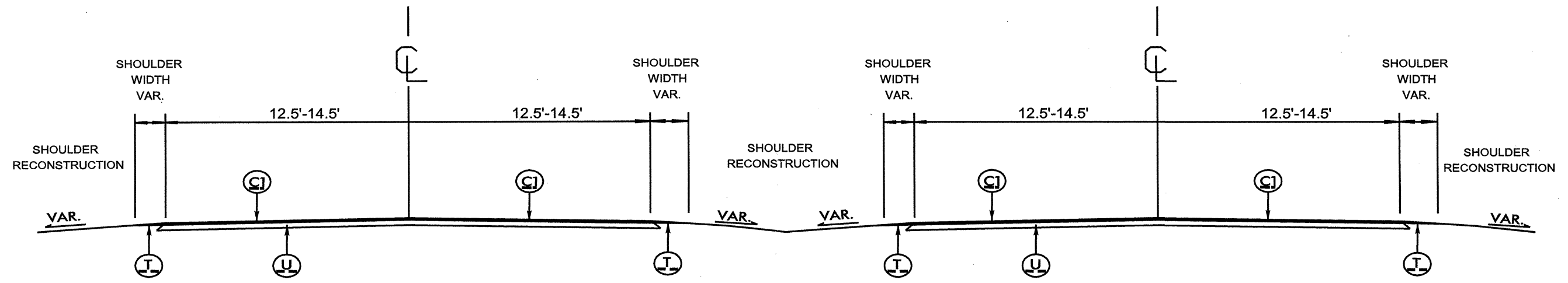
C1	PROP. APPROX. 1.5" ACSC TYPE S9.5B AT AN AVERAGE RATE OF 168.0 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ACBC TYPE B25.0B AT AN AVERAGE RATE OF 627.0 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T	EARTH MATERIAL

#### 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

## MAP 2

## MAP 1



# TYPICAL SECTION #1

## USE WITH MAPS 1 & 2

PROJECT NO.	SHEET NO.	TOTAL NO.
45227.3.ST1 R-5187	3	

**US 13-17 BERTIE COUNTY BRIDGE DETAIL**

County	Road No.	Mile Post	Bridge No.	Bridge Rating	Proposed Asphalt Thickness	Resurface Bridge Yes or No?	Milling Square Yards
<b>MAP 1</b>	<b>SOUTH BOUND LANES</b>						
Bertie	US 13-17	1.71	48	Not Posted	1.5" S9.5B	Yes, but mill 1.5"	1,100
Bertie	US 13-17	2.57	37	Not Posted	1.5" S9.5B	Yes, but mill 1.5"	2,750
Bertie	US 13-17	3.08	26	Not Posted	1.5" S9.5B	Yes, but mill 1.5"	850
Bertie	US 13-17	3.79	13	Not Posted	1.5" S9.5B	Yes, but mill 1.5"	1,550
Bertie	US 13-17	4.58	159	Not Posted	1.5" S9.5B	Yes, but mill 1.5"	450
Bertie	US 13-17	4.77	158	Not Posted	1.5" S9.5B	Yes, but mill 1.5"	550
<b>MAP 2</b>	<b>NORTH BOUND LANES</b>						
Bertie	US 13-17	0.13	155	Not Posted	1.5" S9.5B	Yes, but mill 1.5"	550
Bertie	US 13-17	0.33	156	Not Posted	1.5" S9.5B	Yes, but mill 1/2"	450
Bertie	US 13-17	1.08	12	Not Posted	None	No, Tie to Existing Bridge Deck	N/A
Bertie	US 13-17	1.81	25	Not Posted	None	No, Tie to Existing Bridge Deck	N/A
Bertie	US 13-17	2.21	35	Not Posted	None	No, Tie to Existing Bridge Deck	N/A
Bertie	US 13-17	3.17	47	Not Posted	None	No, Tie to Existing Bridge Deck	N/A
All Bridges will remain "Not Posted"						<b>TOTAL:</b>	<b>8,250</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
45227.3.ST1 R-5187	4	

### SUMMARY OF QUANTITIES

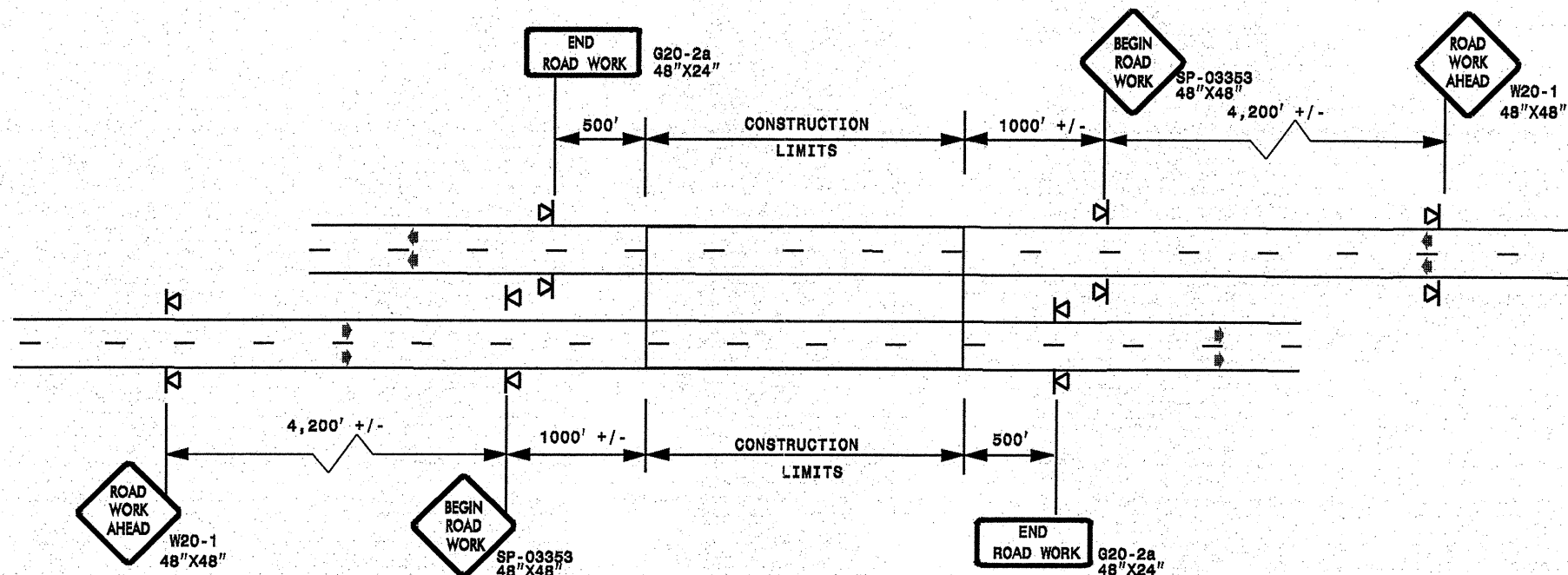
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL NO	LENGTH MI	WIDTH FT	0000100000-N	1220000000-E	1245000000-E	1297000000-E	1297000000-E	1330000000-E	1489000000-E	1519000000-E	1560000000-E	1704000000-E	1880000000-E	4589000000-N	6084000000-E	FINAL SURFACE TESTING
								MOBILIZATION LS	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	MILLING ASPHALT PAVEMENT 1/2" SY	MILLING ASPHALT PAVEMENT 1-1/2" SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	LEVELING COURSE, S4.75A TONS	TRAFFIC CONTROL LS	SEED & MULCHING AC	
45227.3.ST1	Bertie	1	US 13/17 SOUTH BOUND LANES	FROM SR 1106 TO ROANOKE RIVER BRIDGE	1	4.92	27	1	150	9.25	0	7250	2,000	145	7,200	531	75	1,325	*	7	NO
45227.3.ST1	Bertie	2	US 13/17 NORTH BOUND LANES	FROM ROANOKE RIVER BRIDGE TO SR 1106	1	4.92	27	1	150	9.25	450	550	2,000	179	7,150	551	50	1,625	*	7	NO
<b>TOTAL FOR PROJ NO. 45227.3.ST1 R-5187</b>						<b>9.85</b>		<b>1</b>	<b>300</b>	<b>18.50</b>	<b>450</b>	<b>7,800</b>	<b>4,000</b>	<b>324</b>	<b>14,350</b>	<b>1,082</b>	<b>125</b>	<b>2,950</b>	<b>1</b>	<b>14</b>	
<b>GRAND TOTAL</b>						<b>9.85</b>		<b>1</b>	<b>300</b>	<b>18.50</b>	<b>450</b>	<b>7,800</b>	<b>4,000</b>	<b>324</b>	<b>14,350</b>	<b>1,082</b>	<b>125</b>	<b>2,950</b>	<b>1</b>	<b>14</b>	

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NUMBER	COUNTY	MAP NUMBER	ROUTE	DESCRIPTION	4685000000-E		4686000000-E		4710000000-E	4725000000-E		4810000000-E		4900000000-N	
					4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	24" X 120 M WHITE THERMO LF	THERMO LT ARROW-90 M EA	THERMO RT ARROW-90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	CRYSTAL & RED MARKERS EA	YELLOW & YELLOW MARKERS EA
45227.3.ST1	Bertie	1	US 13/17 SOUTH BOUND LANES	FROM SR 1106 TO ROANOKE RIVER BRIDGE	26,412	26,212	7,200	100	50	6		36,644	26,000	365	5
45227.3.ST1	Bertie	2	US 13/17 NORTH BOUND LANES	FROM ROANOKE RIVER BRIDGE TO SR 1106	26,412	26,212	7,200	100	50	6	1	37,408	26,000	365	5
<b>TOTAL FOR PROJ NO. 45227.3.ST1 R-5187</b>					<b>52,824</b>	<b>52,424</b>	<b>14,400</b>	<b>200</b>	<b>100</b>	<b>12</b>	<b>1</b>	<b>74,052</b>	<b>52,000</b>	<b>730</b>	<b>10</b>
<b>GRAND TOTAL</b>					<b>105,248</b>	<b>104,636</b>	<b>28,600</b>	<b>200</b>	<b>100</b>	<b>13</b>	<b>1</b>	<b>111,452</b>	<b>108,000</b>	<b>1,060</b>	<b>15</b>

**ADVANCE WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)**

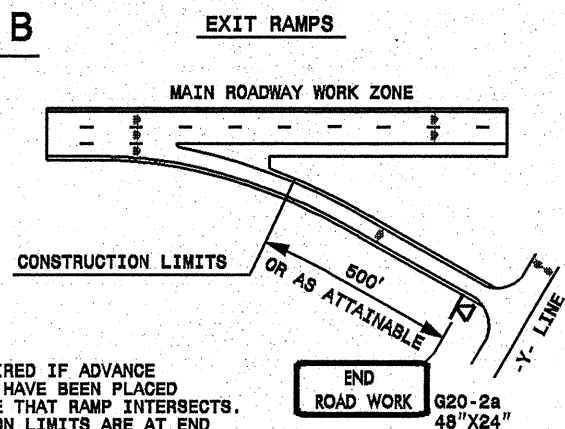
**DETAIL A**



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

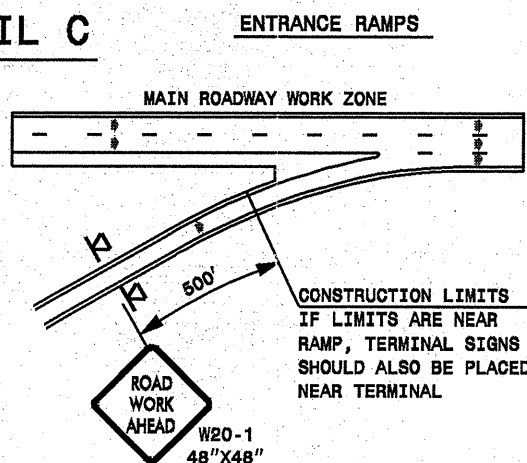
**ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)**

**DETAIL B**



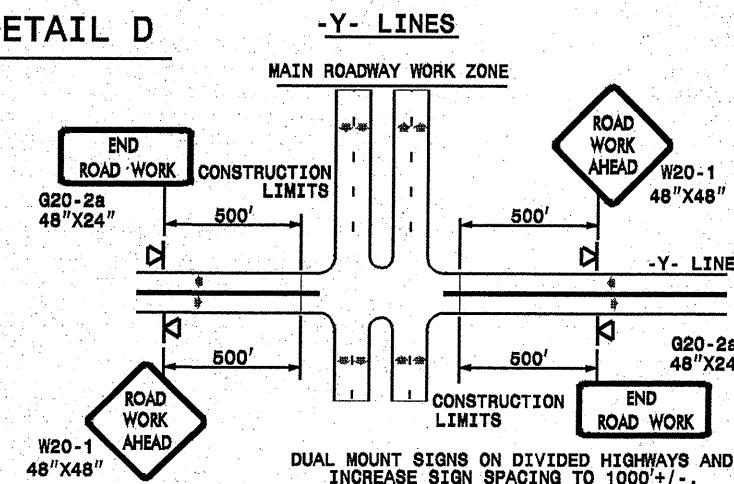
NOTE:  
SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

**DETAIL C**



CONSTRUCTION LIMITS IF LIMITS ARE NEAR RAMP, TERMINAL SIGNS SHOULD ALSO BE PLACED NEAR TERMINAL

**DETAIL D**



**DETAIL DRAWING  
FOR FREEWAYS  
WORK ZONE WARNING SIGNS  
(SHORT-DURATION LANE CLOSURES)**

**GENERAL NOTES**

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

- ◁ PORTABLE SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: _____	DATE: _____	<b>DETAIL DRAWING FOR FREEWAYS WORK ZONE WARNING SIGNS</b>	
SEAL	SCALE: NONE		REVISIONS
	DATE: _____		7-98 10/01
	DWG. BY: _____		10-98 03/04
	DESIGN BY: _____		01/01 11/04
REVIEWED BY: _____	DATE: _____	DATE: _____	DATE: _____

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