

21-JAN-2015 13:32  
 C:\D\CURRENT\PROJECTS\DIVISION PROJECT WORKING FILES\District Three\DA00232 Chowan & Martin Resurfacing (2015)\Pre-Bid Documents\DA00232-Plans.dgn  
 cslachta AT DICAD257101L

**CONTRACT NO.: DA00232 WBS ELEMENT : 1CR.10211.12, ETC.**



STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  

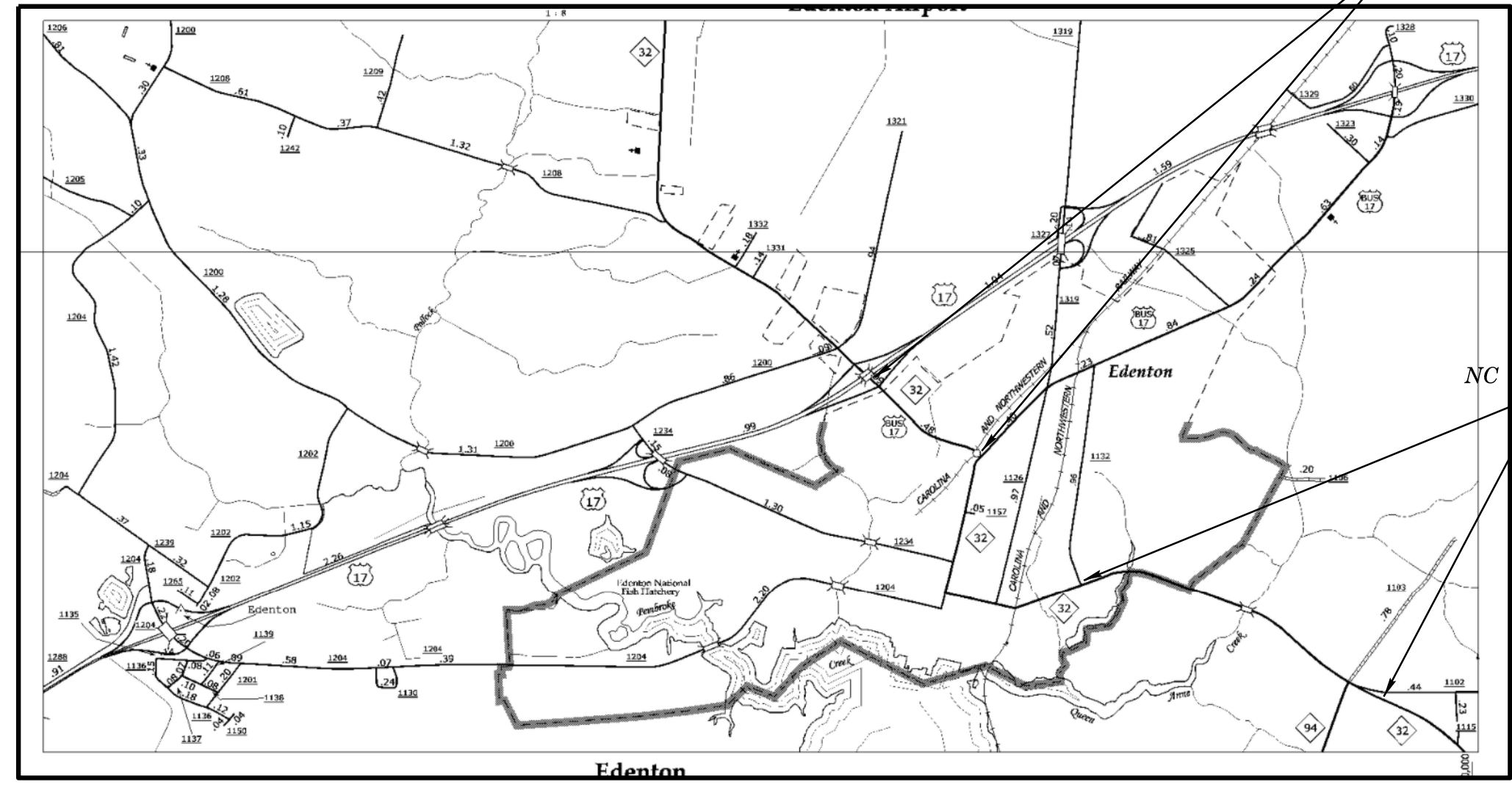

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**CHOWAN COUNTY**


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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1CR.10211.12, ETC.	1	10
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**LOCATION: MAP #1 NC 32 FROM COKE AVE.. TO CONCRETE JOINT AT NC 94**  
**MAP #2 NC 32 FROM US 17 BUS. TO US 17**  
**TYPE OF WORK: MILLING & RESURFACING**



NOT TO SCALE

**PROJECT LENGTH**  
  
 MAP#1 WBS# 1CR.10211.12 = 1.12 MILES  
 MAP#2 WBS# 1CR.10211.13 = .55 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  


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 2012 STANDARD SPECIFICATIONS  


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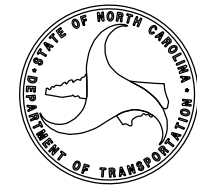
 LETTING DATE: \_\_\_\_\_  


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


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 C.E. SLACHTA  
 DIVISION PROPOSALS ENGINEER

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA  


21-JAN-2015 13:50  
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 AT D:\CAD257101L  
 cslachta

**CONTRACT NO. : DA00232 WBS ELEMENT : 1CR.10211.12, ETC.**

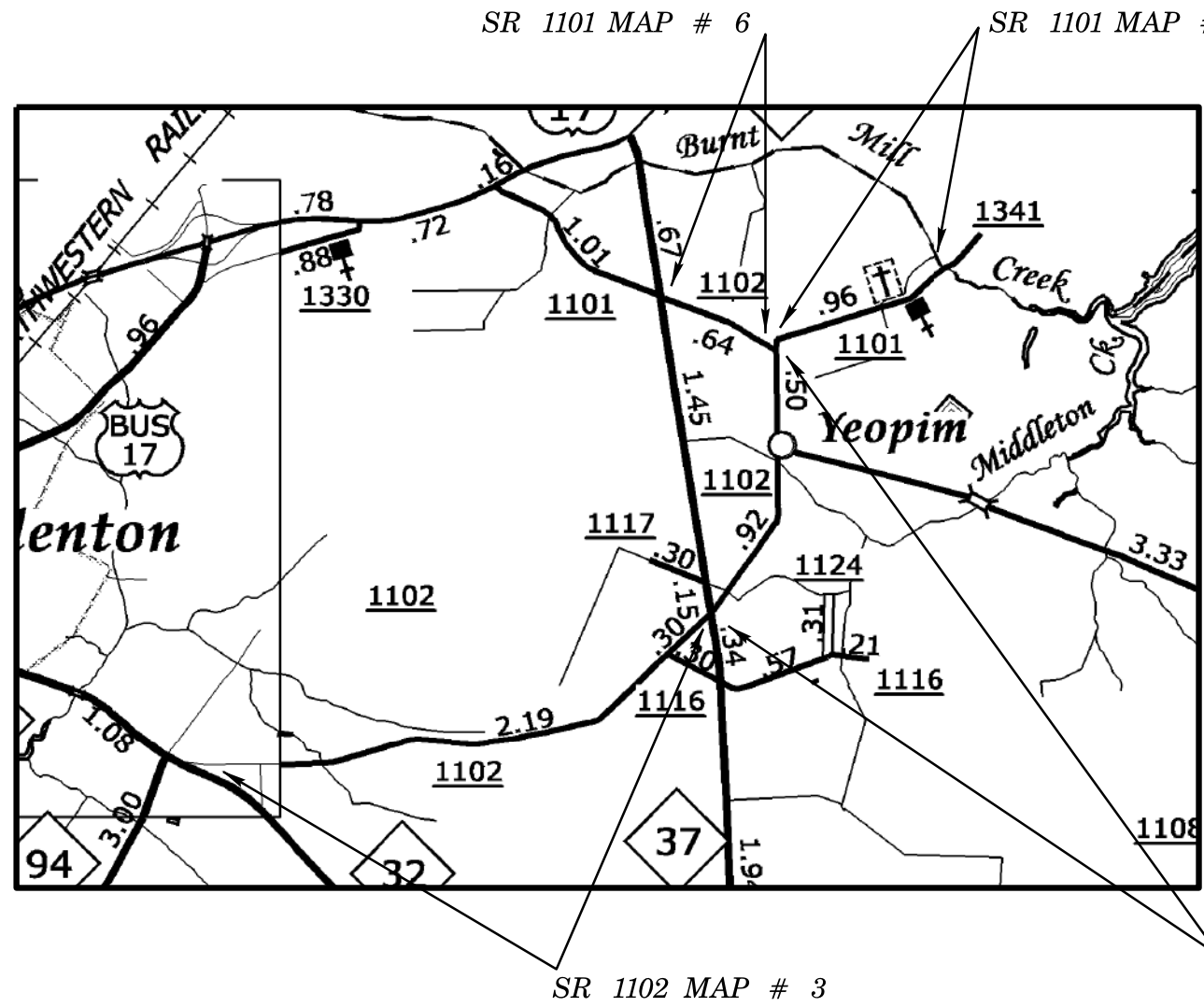


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CHOWAN COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1CR.10211.12, ETC.	2	10
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**LOCATION: MAP #3 SR 1102 FROM NC 32 TO NC 37 / MAP #4 SR 1102 FROM NC 37 TO SR 1102**  
**MAP #5 SR 1101 FROM FROM PERQOIMANS CL TO SR 1102 / MAP #6 SR 1101 FROM NC 37 TO SR 1102**  
**TYPE OF WORK: RESURFACING**



NOT TO SCALE

PROJECT LENGTH	
MAP#3 WBS# 1CR.20211.31 =	2.50 MILES
MAP#4 WBS# 1CR.20211.32 =	1.40 MILES
MAP#5 WBS# 1CR.20211.33 =	0.90 MILES
MAP#6 WBS# 1CR.20211.34 =	0.65 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

2012 STANDARD SPECIFICATIONS	
LETTING DATE:	<div style="border-bottom: 1px solid black; padding-bottom: 2px;"> <small>W.B. HOBBS, P.E.</small>  <small>DIVISION PROJECT MANAGER</small> </div> <div style="border-bottom: 1px solid black; padding-bottom: 2px; margin-top: 10px;"> <small>C.E. SLACHTA</small>  <small>DIVISION PROPOSALS ENGINEER</small> </div>

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

21-JAN-2015 13:52  
 C:\D\CurrentProjects\DIVISION PROJECT WORKING FILES\District Three\DA00232 Chowan & Martin Resurfacing (2015)\Pre-Bid Documents\DA00232-Plans.dgn  
 cslachta AT DICAD257101L 09/08/99

**CONTRACT NO.: DA00232 WBS ELEMENT : 1CR.10211.12, ETC.**

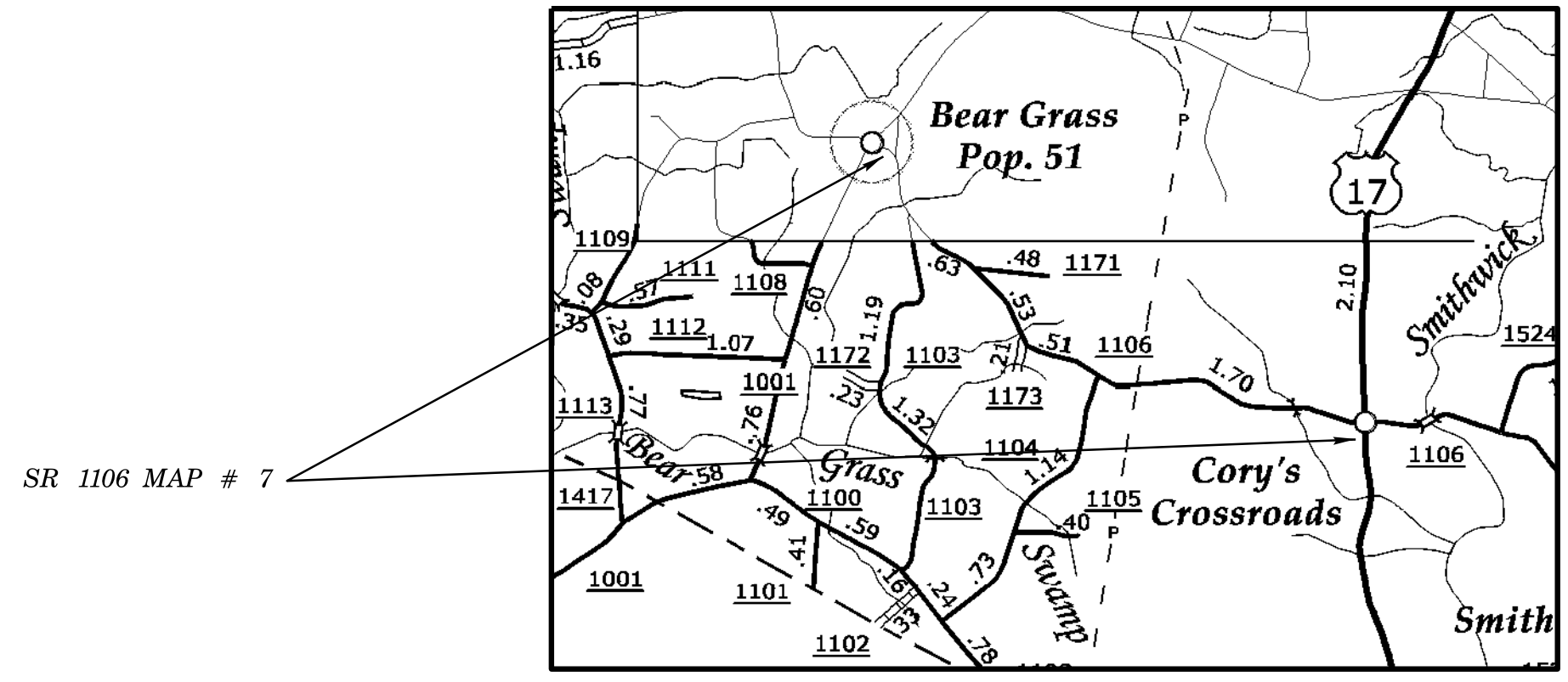


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**MARTIN COUNTY**

LOCATION: MAP #7 SR 1106 FROM SR 1001 TO US 17  
TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1CR.10211.12, ETC.	3	10
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



NOT TO SCALE

PROJECT LENGTH  
MAP#7 WBS# 1CR.20581.61 = 3.90 MILES

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**

2012 STANDARD SPECIFICATIONS	
LETTING DATE:	W.B. HOBBS, P.E. <small>DIVISION PROJECT MANAGER</small>
	C.E. SLACHTA <small>DIVISION PROPOSALS ENGINEER</small>

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

21-JAN-2015 13:53 C:\D\C\CurrentProjects\DIVISION PROJECT WORKING FILES\District Three\DA00232 Chowan & Martin Resurfacing (2015)\Pre-Bid Documents\DA00232\_Plans.dgn AT DicAD257101L cslachta

**CONTRACT NO. : DA00232 WBS ELEMENT : 1CR.10211.12, ETC.**



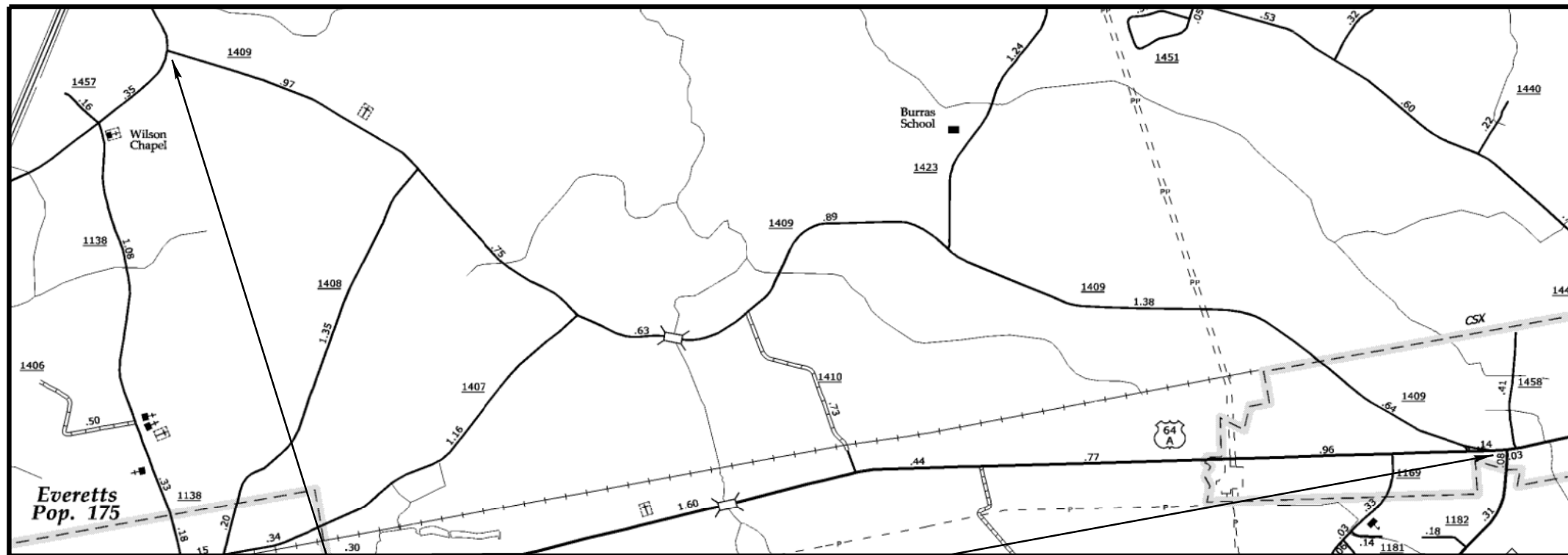
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**MARTIN COUNTY**

LOCATION: MAP #8 SR 1409 FROM US 64 ALT. TO SR 1404

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1CR.10211.12, ETC.	4	10
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



SR 1409 MAP # 8

NOT TO SCALE

**PROJECT LENGTH**

MAP#8 WBS# 1CR.20581.62 = 5.23 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

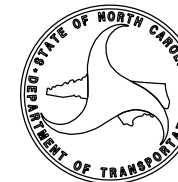
2012 STANDARD SPECIFICATIONS

LETTING DATE:

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

C.E. SLACHTA  
DIVISION PROPOSALS ENGINEER

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA



21-JAN-2015 14:40  
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AT D:\CAD257101L cslachta

**CONTRACT NO.: DA00232 WBS ELEMENT : ICR.10211.12, ETC.**



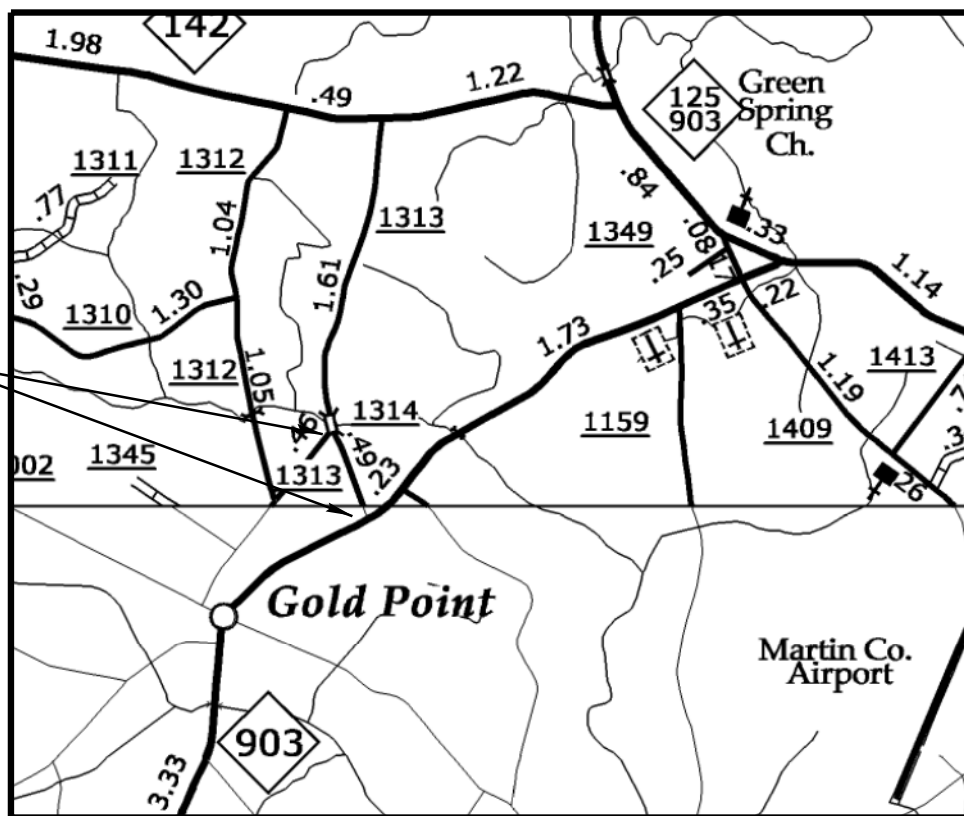
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**MARTIN COUNTY**

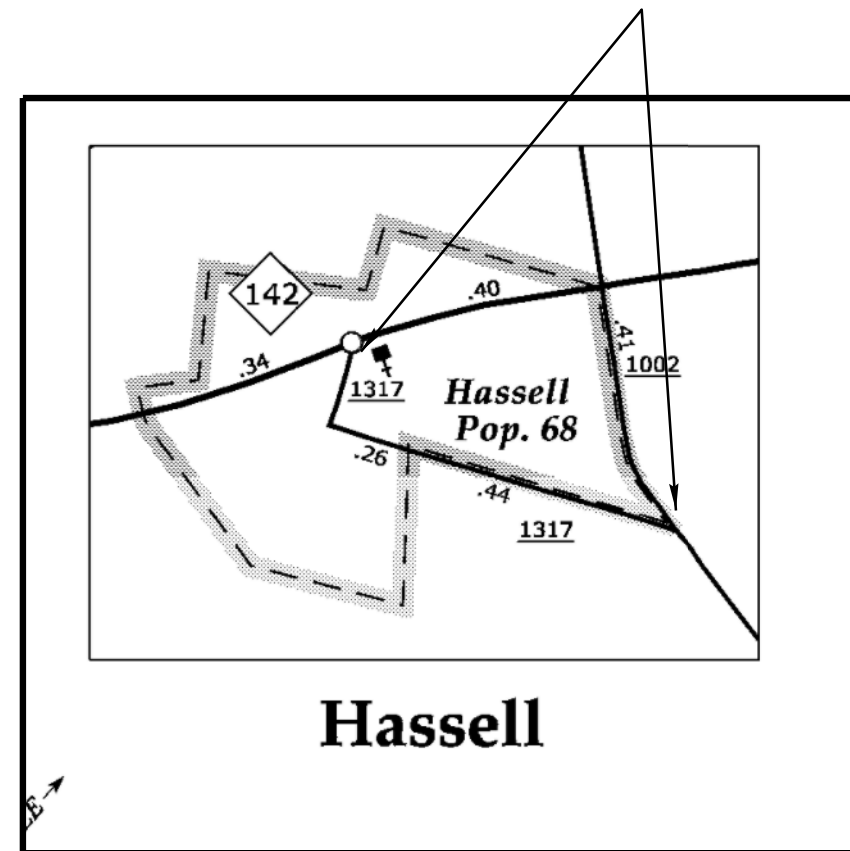
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1CR.10211.12, ETC.	5	10
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**LOCATION: MAP #9 SR 1317 FROM NC 42 TO SR 1002/ MAP #10 SR 1314 FROM SR 1313 TO NC 903**  
**TYPE OF WORK: RESURFACING**

SR 1314 MAP # 10



SR 1317 MAP # 9



NOT TO SCALE

PROJECT LENGTH

MAP#9 WBS# 1CR.10581.63 = 0.70 MILES  
MAP#10 WBS# 1CR.20581.64 = 0.50 MILES

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**

2012 STANDARD SPECIFICATIONS

LETTING DATE:

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

---

C.E. SLACHTA  
DIVISION PROPOSALS ENGINEER

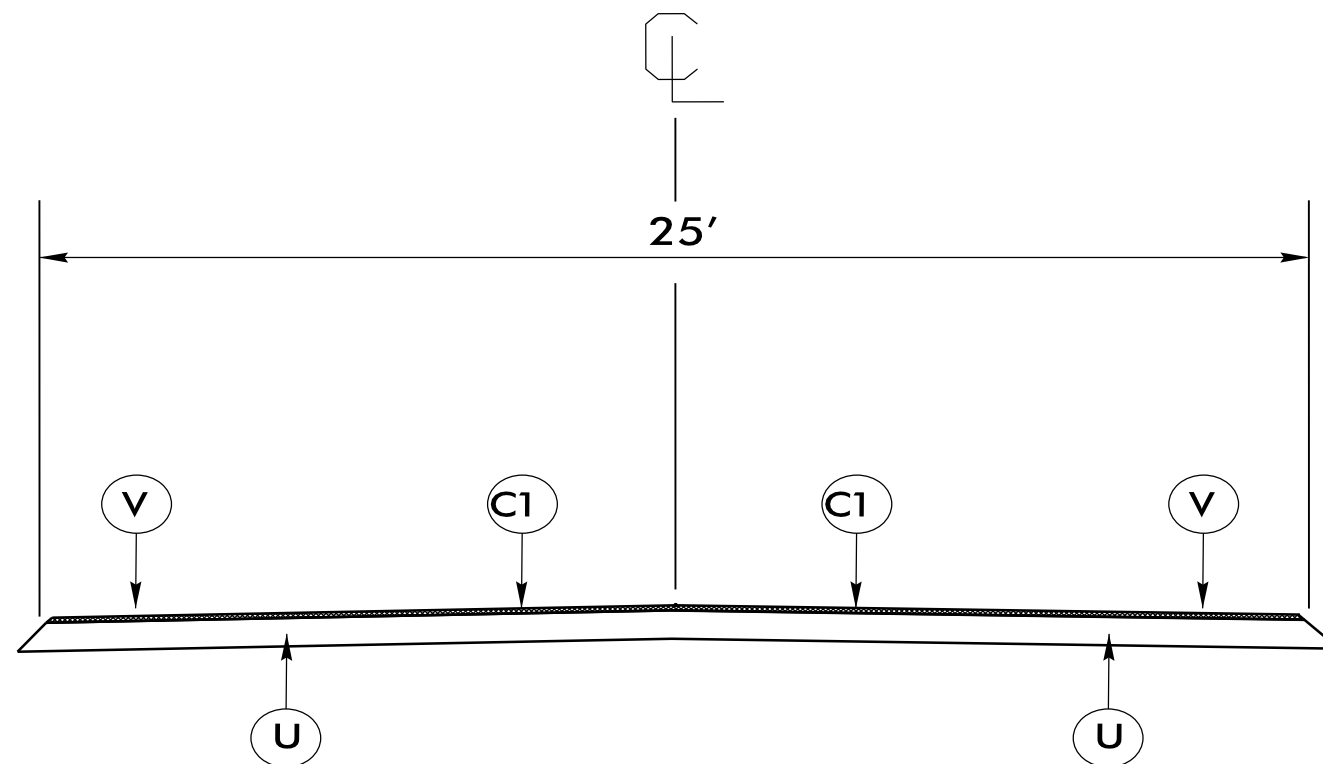
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

NOTES:

1. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
3. SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS

PROJECT REFERENCE NO.	SHEET NO.
1CR.10211.12, ETC.	6 OF 10

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
V	MILLING BITUMINOUS PAVEMENT 1.5" DEPTH
U	EXISTING PAVEMENT.



***TYPICAL SECTION #1***

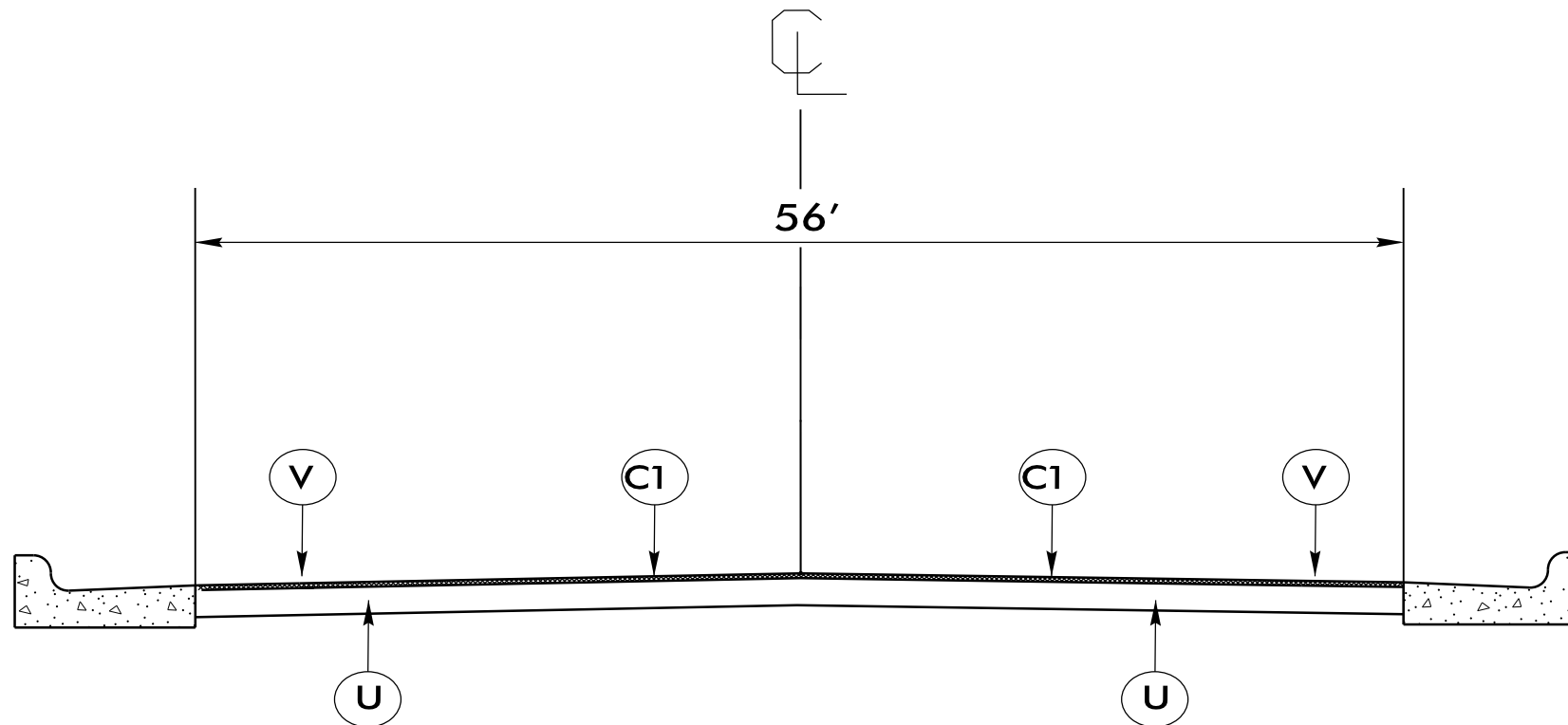
USE WITH MAP 1

NOTES:

1. ALL PAVED SERVICE ROADS TO BE MILLED AND RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
3. MILL 1.5" BELOW EXISTING CURB AND GUTTER

PROJECT REFERENCE NO.	SHEET NO.
1CR.10211.12, ETC.	7 OF 10

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
V	MILLING BITUMINOUS PAVEMENT 1.5" DEPTH
U	EXISTING PAVEMENT.



***TYPICAL SECTION #2***

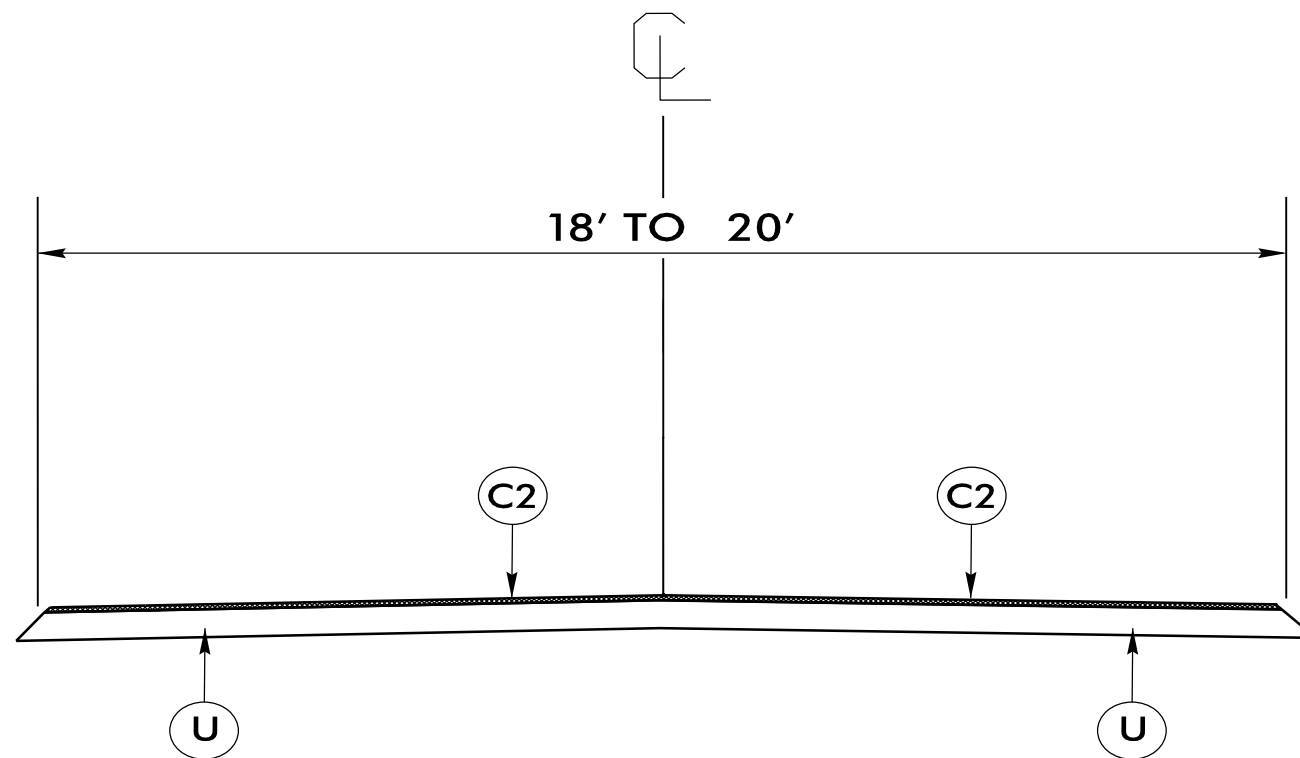
USE WITH MAP 2

NOTES:

1. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
3. SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS

PROJECT REFERENCE NO.	SHEET NO.
1CR.10211.12, ETC.	8 OF 10

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
U	EXISTING PAVEMENT.



***TYPICAL SECTION #3***

USE WITH MAP 3, 4, 5, 6, 7, 8, 9 AND 10

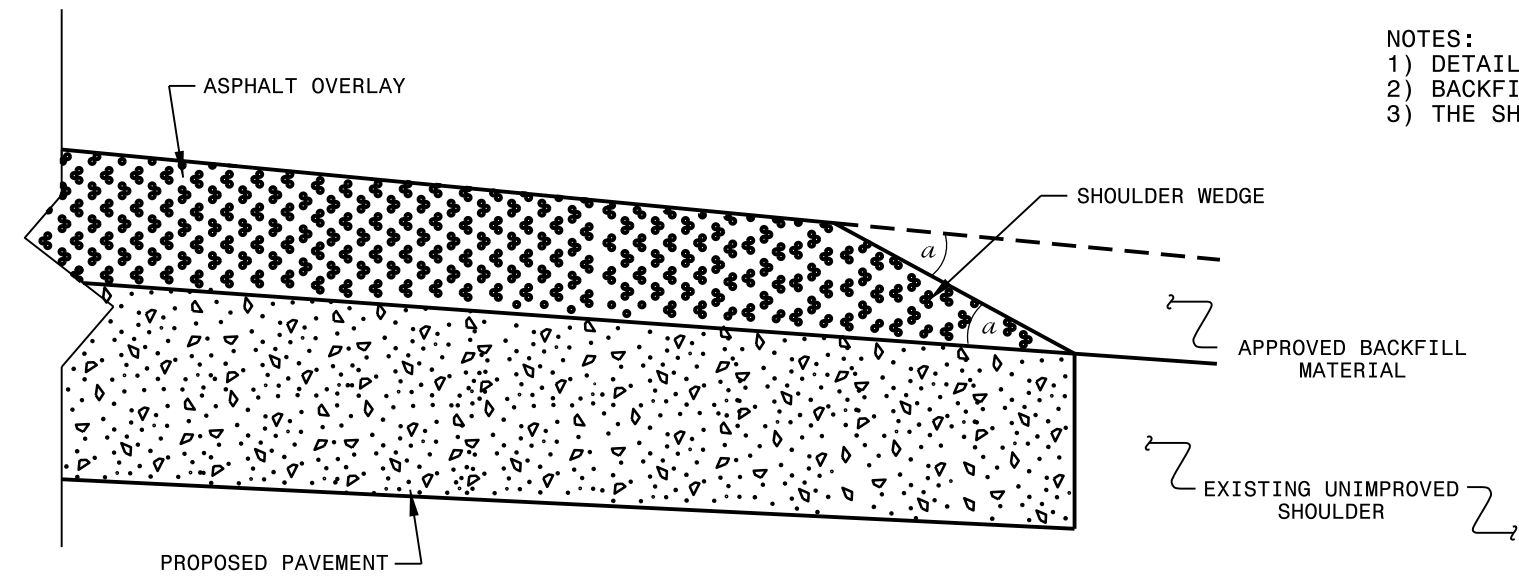


PROJECT NO.	SHEET NO.	TOTAL NO.
1CR.10211.12, ETC.	9	10

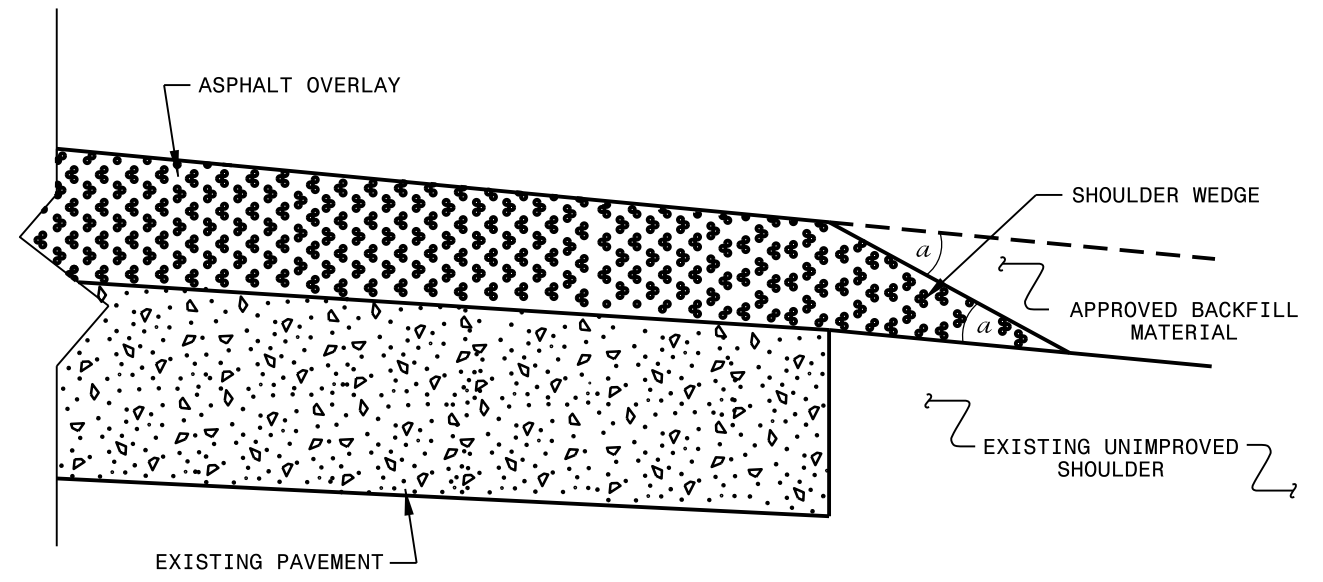
## SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	MOBILIZATION	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, SF9.5A	ASPHALT BINDER FOR PLANT MIX	2'-6" CURB & GUTTER	CONCRETE CURB RAMPS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	INDUCTIVE LOOP SAWCUT	TEMPORARY TRAFFIC CONTROL
NO		NO			NO				MI	FT	LUMP SUM	SY	SY	TONS	TONS	TONS	LF	EA	EA	EA	LF	LUMP SUM
1CR.10211.12	Chowan	1	NC 32	FROM COKE AVE. TO CONCRETE JOINT AT NC 94	1	2	NO	NO	1.12	25	1	18,071		1,525		92						1
1CR.10211.13	Chowan	2	NC 32	FROM US 17 BUS. AND TO US 17	2	4	NO	NO	0.55	56	*	19,876		1,673		100	300	2	13	2	3,500	*
1CR.20211.31	Chowan	3	SR 1102 A	FROM NC 32 TO NC 37	3	2	NO	NO	2.5	20	*		250		2,679	179						*
1CR.20211.32	Chowan	4	SR 1102 B	FROM NC 37 TO SR 1102	3	2	NO	NO	1.4	20	*		250		1,500	101						*
1CR.20211.33	Chowan	5	SR 1101 A	FROM PERQ.C/L TO SR 1102	3	2	NO	NO	0.9	18	*		250		868	58						*
1CR.20211.34	Chowan	6	SR 1101 B	FROM NC 37 TO SR 1102	3	2	NO	NO	0.65	20	*		250		696	47						*
1CR.20581.61	Martin	7	SR 1106	FROM SR 1001 TO US17	3	2	NO	NO	3.9	20	*		250		4,179	280						*
1CR.20581.62	Martin	8	SR 1409	FROM US 64 ALT TO SR 1404	3	2	NO	NO	5.32	20	*		250		5,700	382						*
1CR.20581.63	Martin	9	SR 1317	FROM NC 42 TO SR 1002	3	2	NO	NO	0.7	20	*		250		750	50						*
1CR.20581.64	Martin	10	SR 1314	FROM SR 1313 TO NC 903	3	2	NO	NO	0.5	18	*		250		482	32						*
<b>GRAND TOTAL</b>									<b>17.54</b>		<b>1</b>	<b>37,947</b>	<b>2,000</b>	<b>3,198</b>	<b>16,854</b>	<b>1,321</b>	<b>300</b>	<b>2</b>	<b>13</b>	<b>2</b>	<b>3,500</b>	<b>1</b>

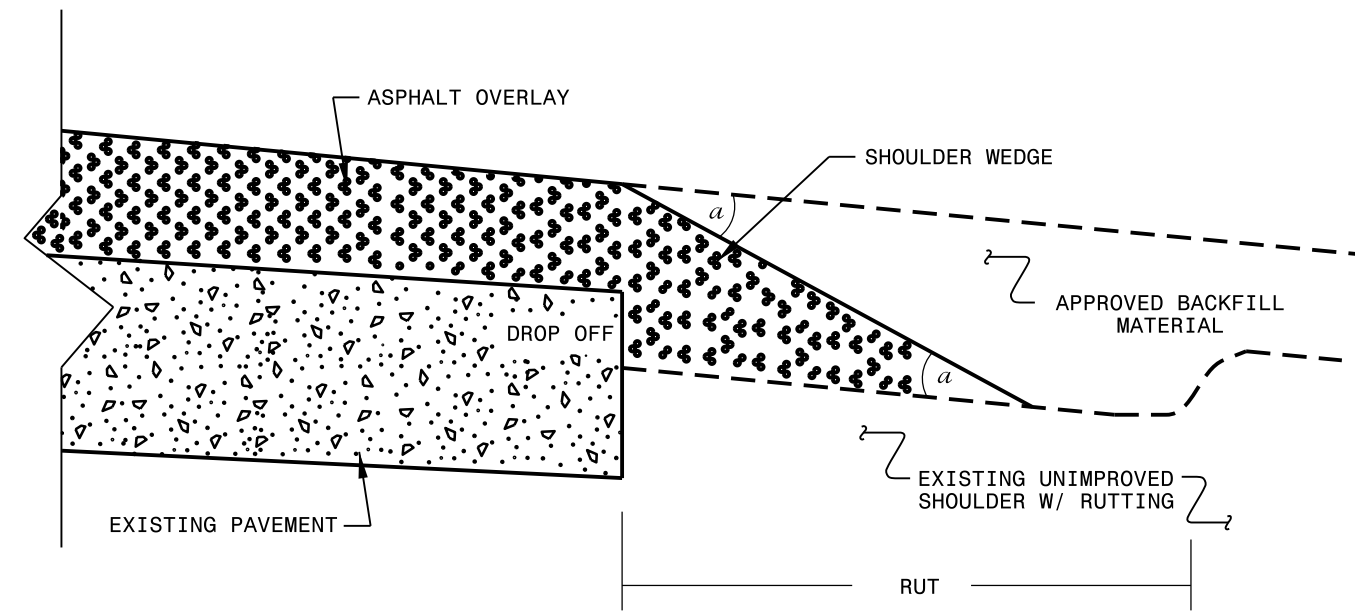
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ Widening or  
 with Existing Paved Shoulder having no dropoffs)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ NO Widening)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN  
 USER NAME