

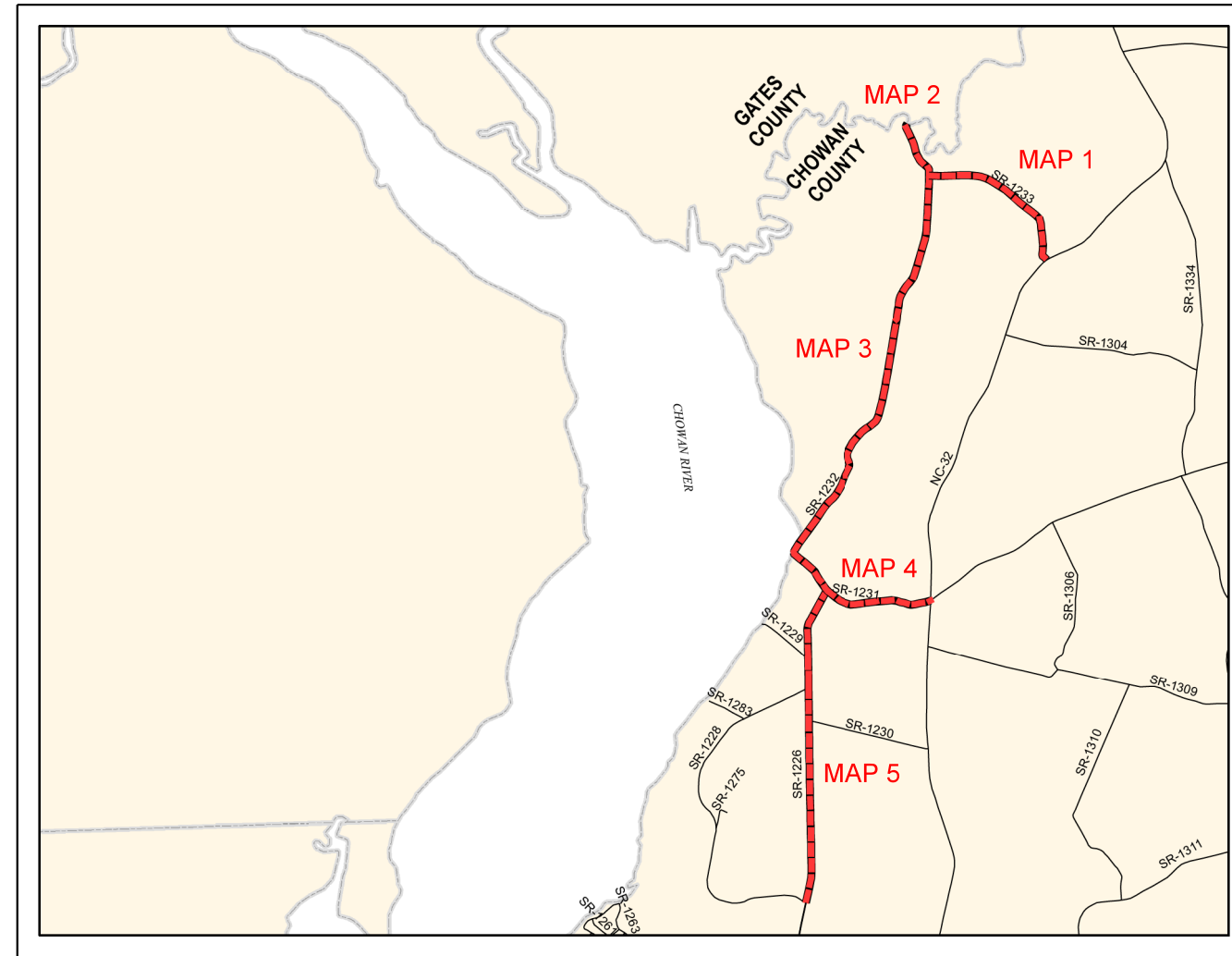
**CONTRACT: DA00440 WBS PROJECT: 2019CPT.01.09.20211.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CHOWAN COUNTY**

**LOCATION: MAP 1 SR 1233 FROM SR 1232 TO NC 32**  
**MAP 2 SR 1232 FROM GATES COUNTY LINE TO SR 1233**  
**MAP 3 SR 1232 FROM SR 1233 TO SR 1231**  
**MAP 4 SR 1231 FROM SR 1232 TO NC 32**  
**MAP 5 SR 1226 FROM SR 1231 TO SR 1228**

**TYPE OF WORK: RESURFACING**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.09.20211.1, ETC.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.09.20211.1		MAPS 1-5	

**NTS**

**PROJECT LENGTH**

**LENGTH OF ROADWAY PROJECT MAP 1 = 1.18 MI.**  
**LENGTH OF ROADWAY PROJECT MAP 2 = 0.42 MI.**  
**LENGTH OF ROADWAY PROJECT MAP 3 = 2.92 MI.**  
**LENGTH OF ROADWAY PROJECT MAP 4 = 1.17 MI.**  
**LENGTH OF ROADWAY PROJECT MAP 5 = 2.24 MI.**

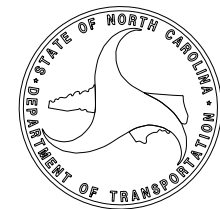
Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

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

**C.E. SLACHTA**  
DIVISION PROPOSALS ENGINEER



**CONTRACT: DA00440 WBS PROJECT: 2019CPT.01.09.20211.1, ETC.**

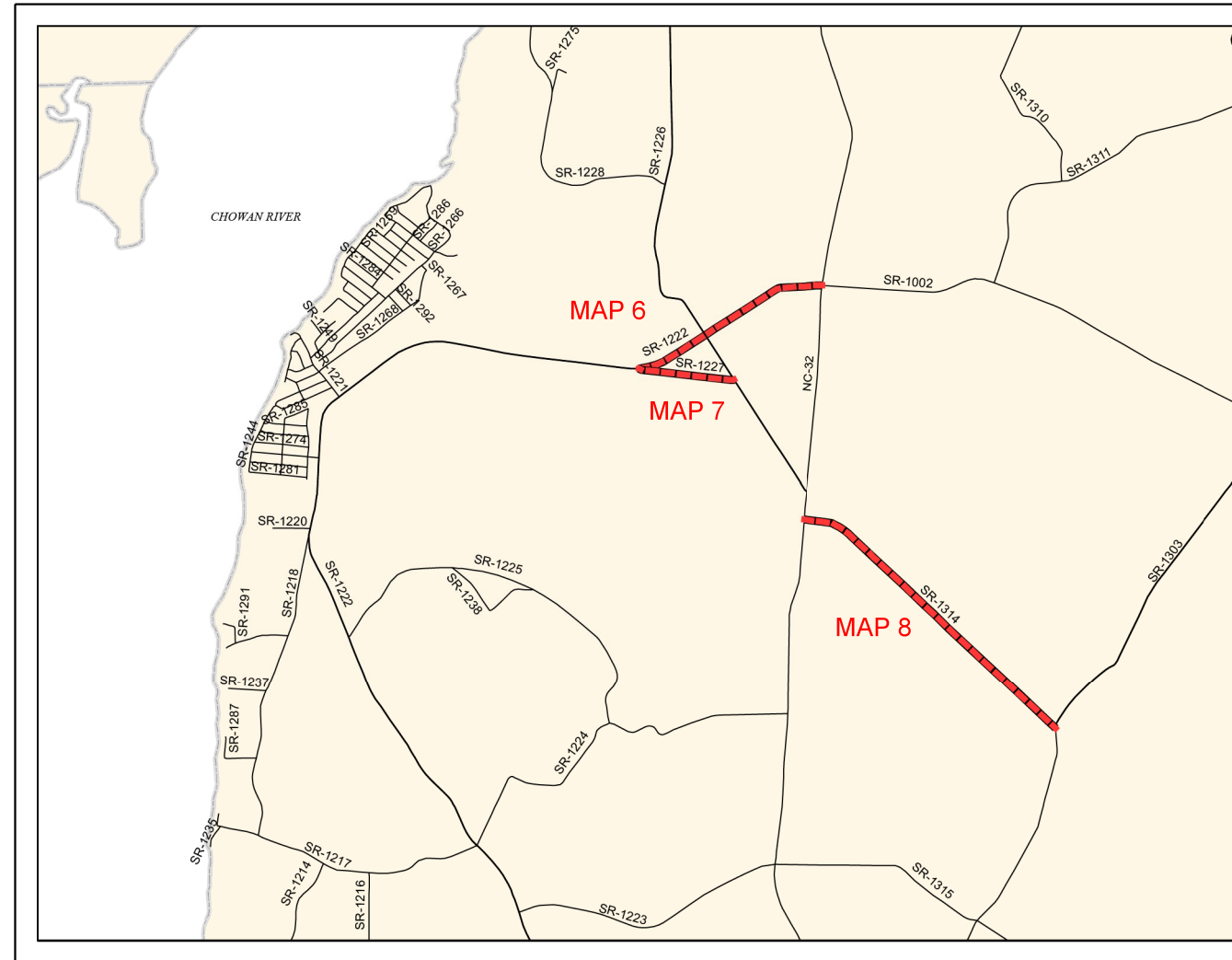
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CHOWAN COUNTY**

**LOCATION: MAP 6 SR 1222 FROM SR 1227 TO NC 32  
MAP 7 SR 1227 FROM SR 1222 TO SR 1226  
MAP 8 SR 1314 FROM SR 1303 TO NC 32**

**TYPE OF WORK: RESURFACING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.09.20211.1, ETC.	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.09.20211.1		MAPS 6-8	



**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 6 = 1.15 MI.  
LENGTH OF ROADWAY PROJECT MAP 7 = 0.54 MI.  
LENGTH OF ROADWAY PROJECT MAP 8 = 1.85 MI.

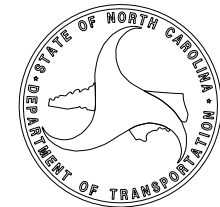
Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

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

**C.E. SLACHTA**  
DIVISION PROPOSALS ENGINEER



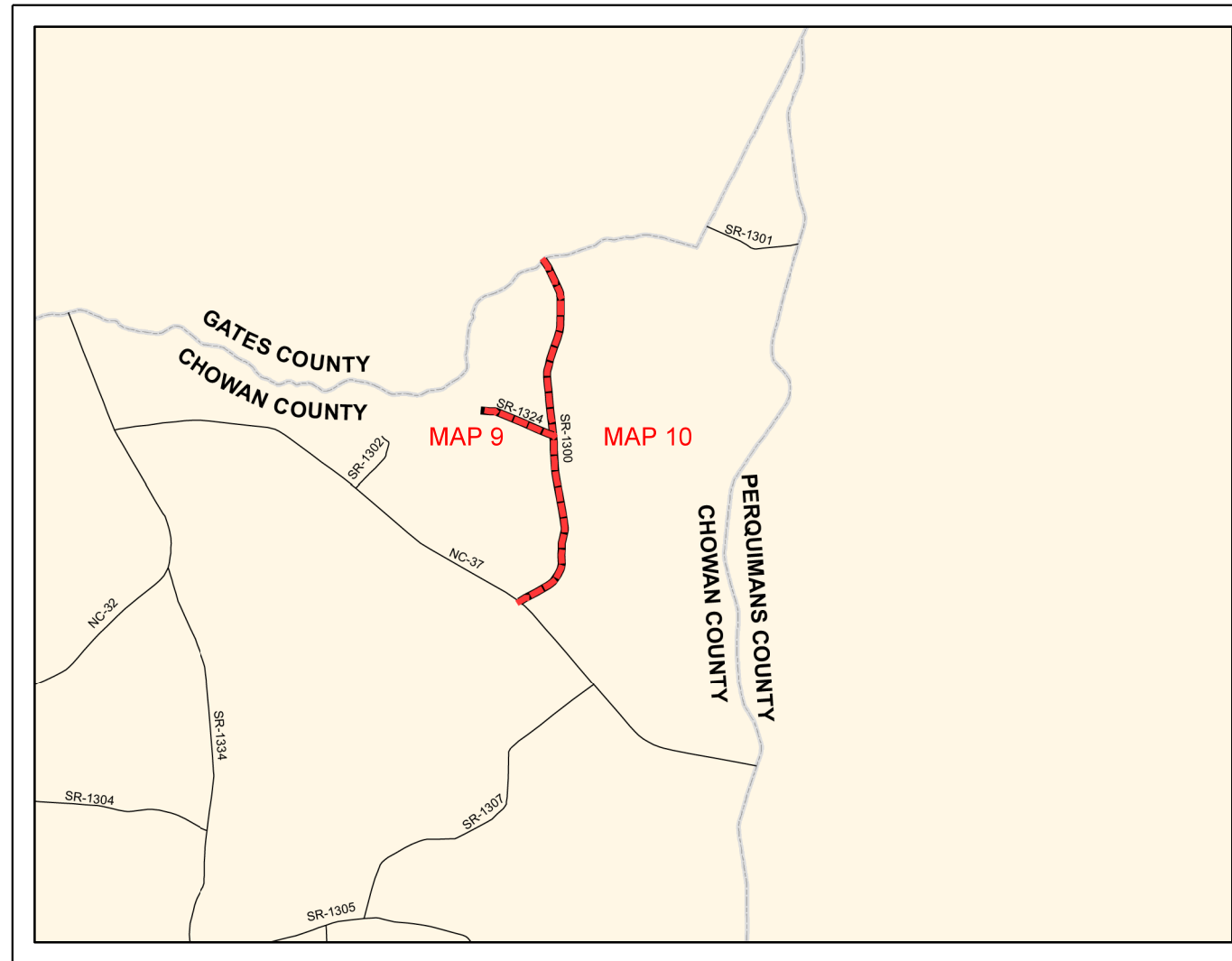
**CONTRACT: DA00440 WBS PROJECT: 2019CPT.01.09.20211.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CHOWAN COUNTY**

**LOCATION: MAP 9 SR 1324 FROM DEAD END TO SR 1300  
MAP 10 SR 1300 FROM GATES COUNTY LINE TO NC 37**

**TYPE OF WORK: RESURFACING**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.09.20211.1, ETC.	3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.09.20211.1		MAPS 9-10	

**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 9 = 0.43 MI.  
LENGTH OF ROADWAY PROJECT MAP 10 = 2.07 MI.

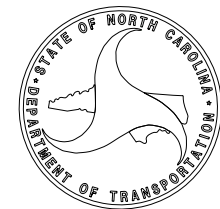
Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

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

**C.E. SLACHTA**  
DIVISION PROPOSALS ENGINEER



**CONTRACT: DA00440 WBS PROJECT: 2019CPT.01.09.20211.1, ETC.**

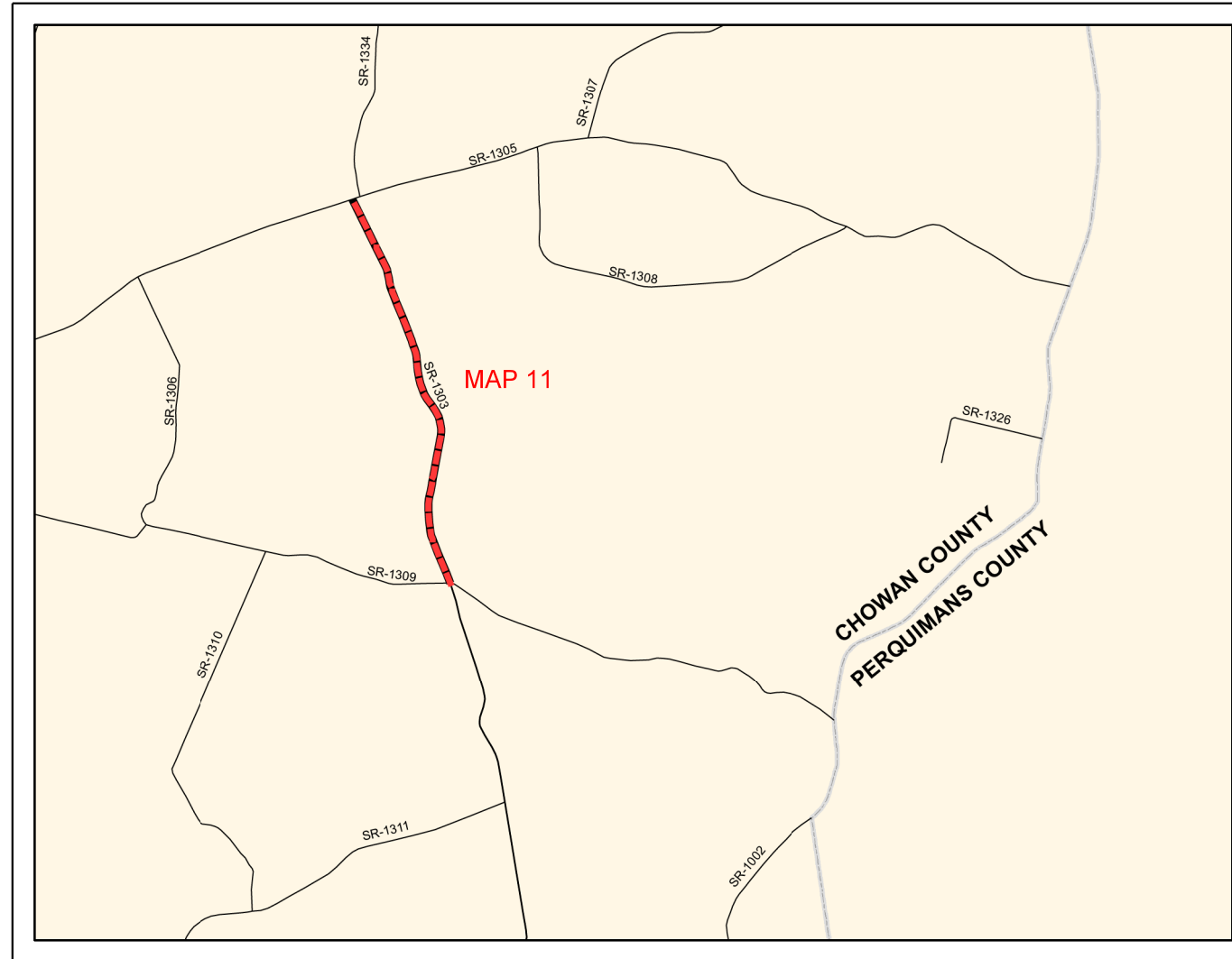
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CHOWAN COUNTY**

LOCATION: MAP 11 SR 1303 FROM SR 1309 TO SR 1305

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.09.20211.1, ETC.	4	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.09.20211.1		MAP 11	



**NTS**

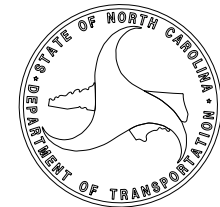
**PROJECT LENGTH**  
LENGTH OF ROADWAY PROJECT MAP 11 = 1.71 MI.

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

2018 STANDARD SPECIFICATIONS

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

**C.E. SLACHTA**  
DIVISION PROPOSALS ENGINEER



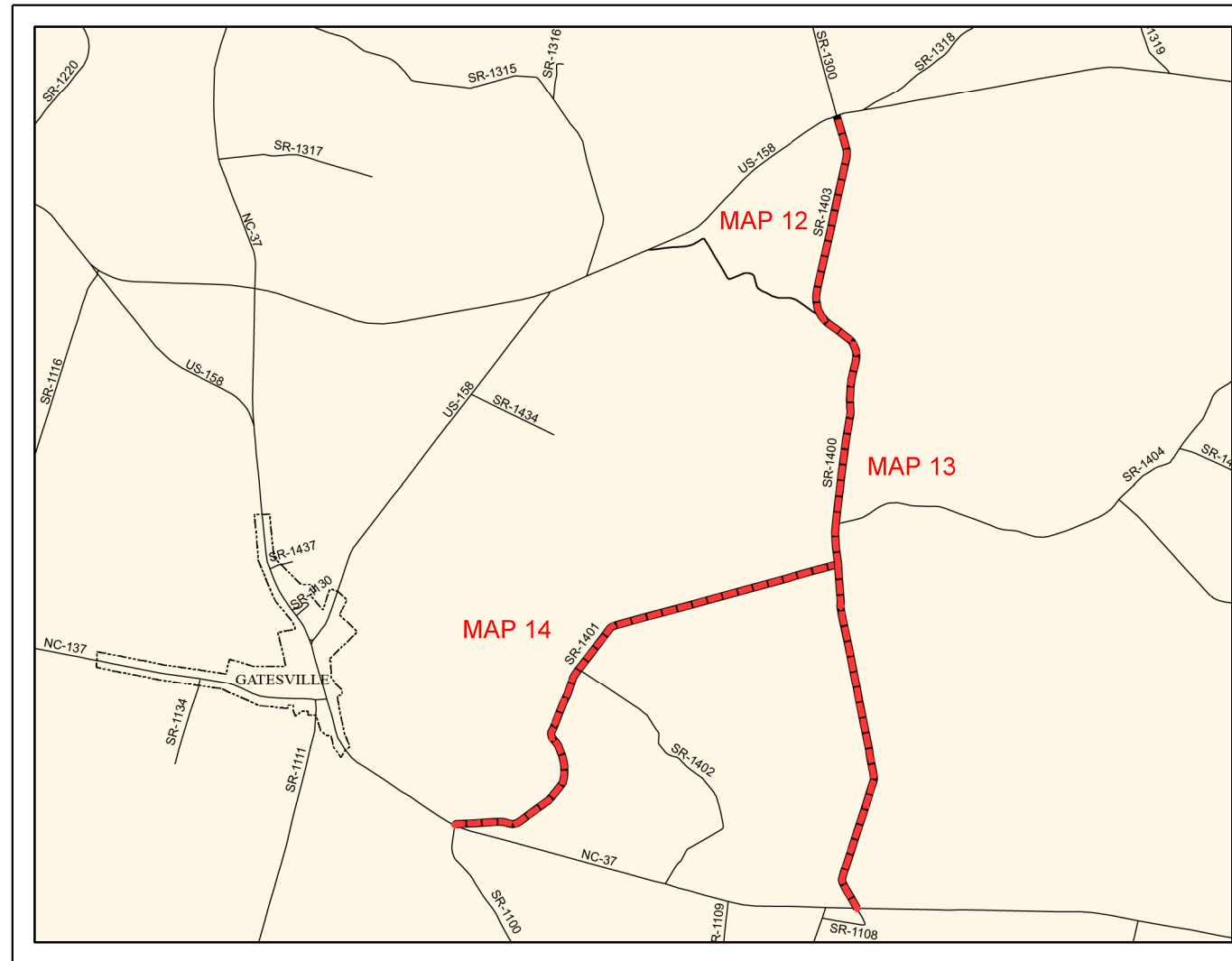
**CONTRACT: DA00440 WBS PROJECT: 2019CPT.01.09.20211.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**GATES COUNTY**

**LOCATION: MAP 12 SR 1403 FROM SR 1400 TO US 158  
MAP 13 SR 1400 FROM NC 37 TO SR 1403  
MAP 14 SR 1401 FROM NC 37 TO SR 1400**

**TYPE OF WORK: RESURFACING**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.09.20211.1, ETC.	5	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.09.20371.1		MAPS 12-14	

**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 12 = 1.14 MI.  
LENGTH OF ROADWAY PROJECT MAP 13 = 3.49 MI.  
LENGTH OF ROADWAY PROJECT MAP 14 = 3.00 MI.

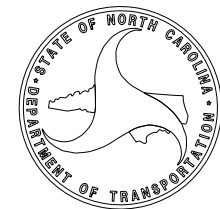
Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

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

**C.E. SLACHTA**  
DIVISION PROPOSALS ENGINEER



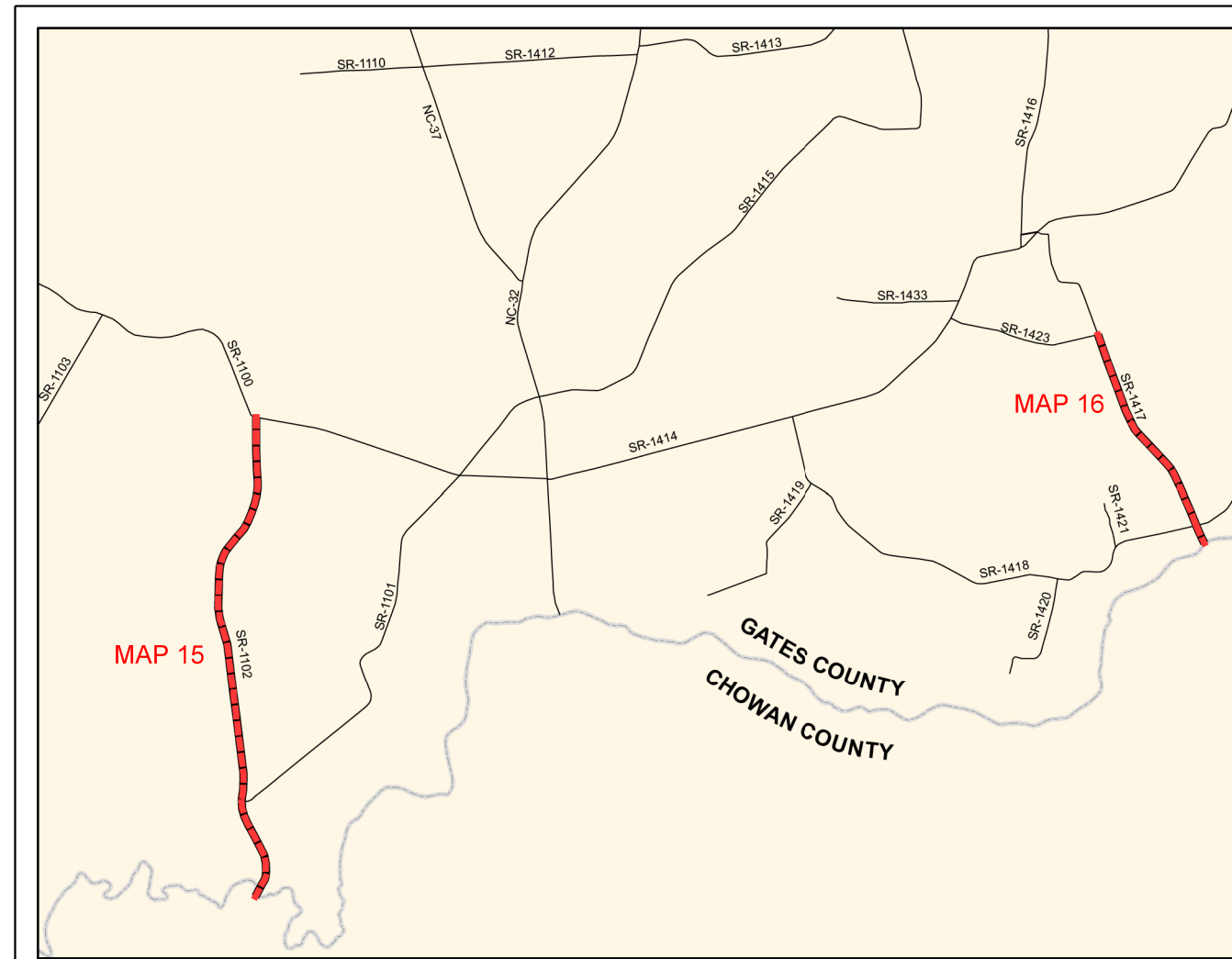
**CONTRACT: DA00440 WBS PROJECT: 2019CPT.01.09.20211.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**GATES COUNTY**

**LOCATION: MAP 15 SR 1102 FROM SR 1100 TO CHOWAN COUNTY LINE  
MAP 16 SR 1417 FROM CHOWAN COUNTY LINE TO END OF PAVEMENT**

**TYPE OF WORK: RESURFACING**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.09.20211.1, ETC.	6	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.09.20371.1		MAPS 15-16	

**NTS**

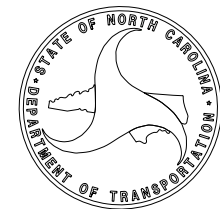
**PROJECT LENGTH**  
 LENGTH OF ROADWAY PROJECT MAP 15 = 2.06 MI.  
 LENGTH OF ROADWAY PROJECT MAP 16 = 0.96 MI.

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

2018 STANDARD SPECIFICATIONS

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

**C.E. SLACHTA**  
 DIVISION PROPOSALS ENGINEER



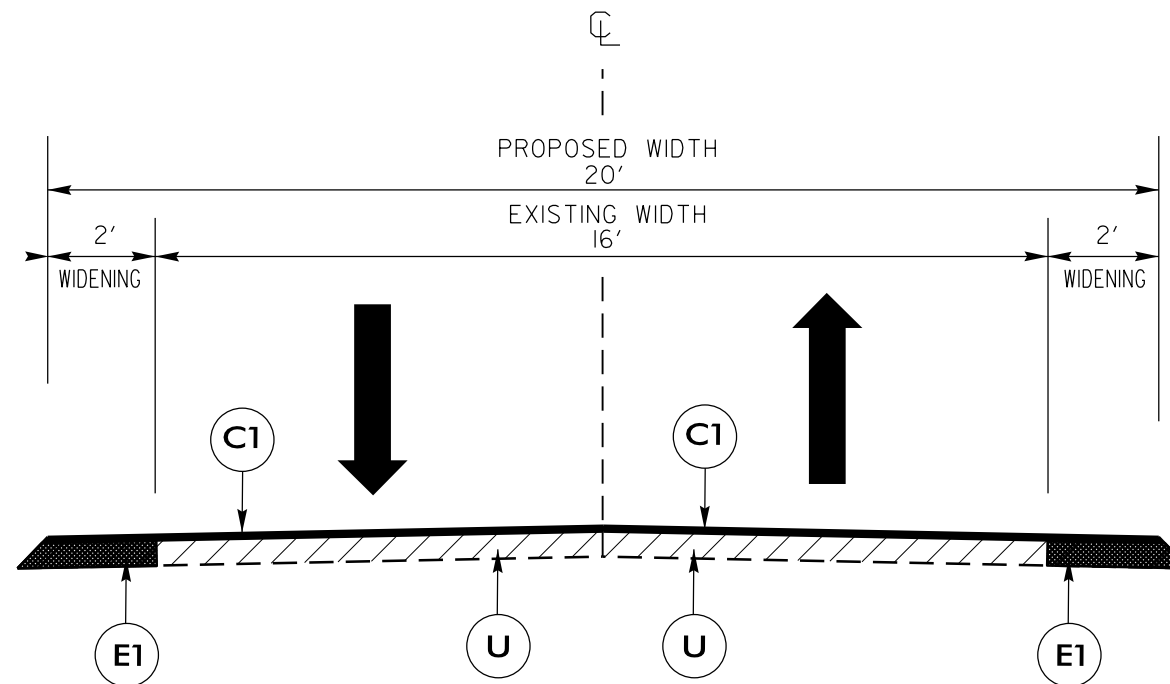
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.

PROJECT REFERENCE NO.	SHEET NO.
2019CPT.01.09.20211.1, ETC.	7

NOTES:

- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
- \*SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS.
- \*PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS.



**TYPICAL SECTION NO. 1**

USE WITH MAPS 1, 8 & 10

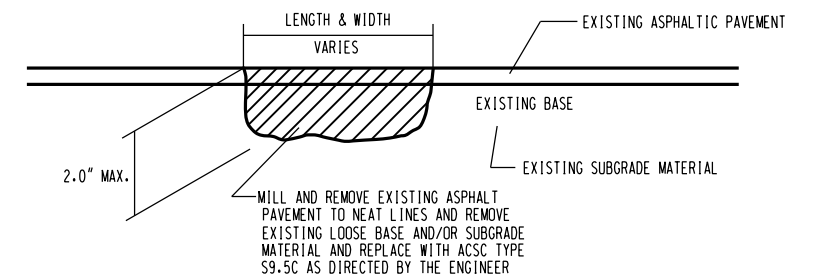
**NTS**

P A V E M E N T   S C H E D U L E

C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

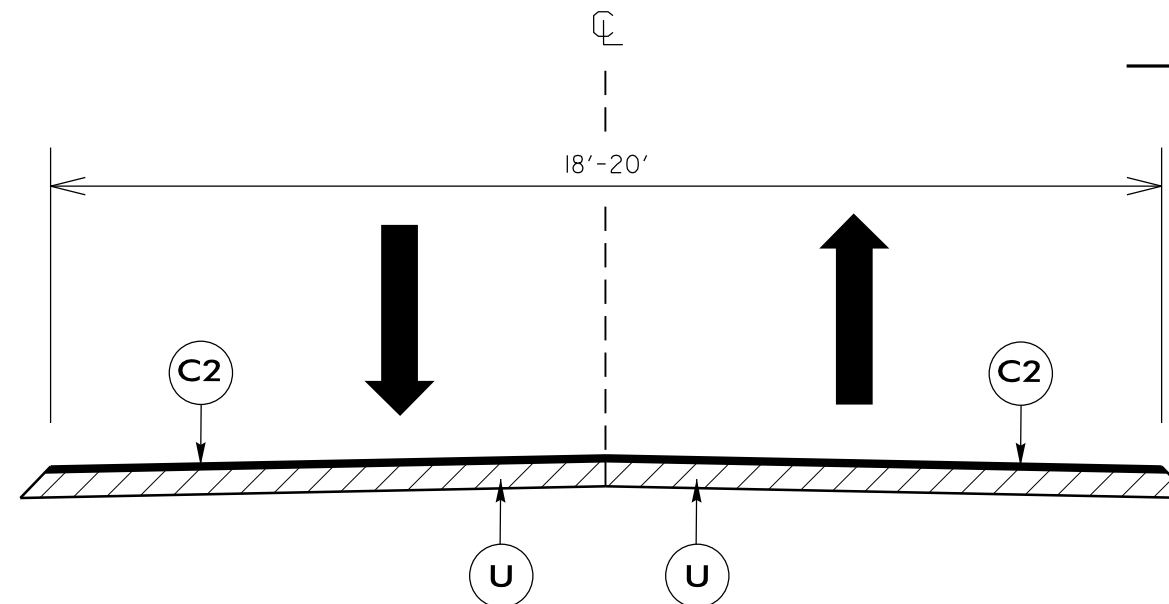
NOTES:

- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL PERFORM MILL PATCHING PRIOR TO RESURFACING ON SELECT MAPS AS DIRECTED BY THE ENGINEER.
- \*SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS.
- \*PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS.



\*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

MILL PATCHING, 0-2.0IN



**TYPICAL SECTION NO. 2**  
USE WITH MAPS 2-6, 11, & 12-15

**NTS**

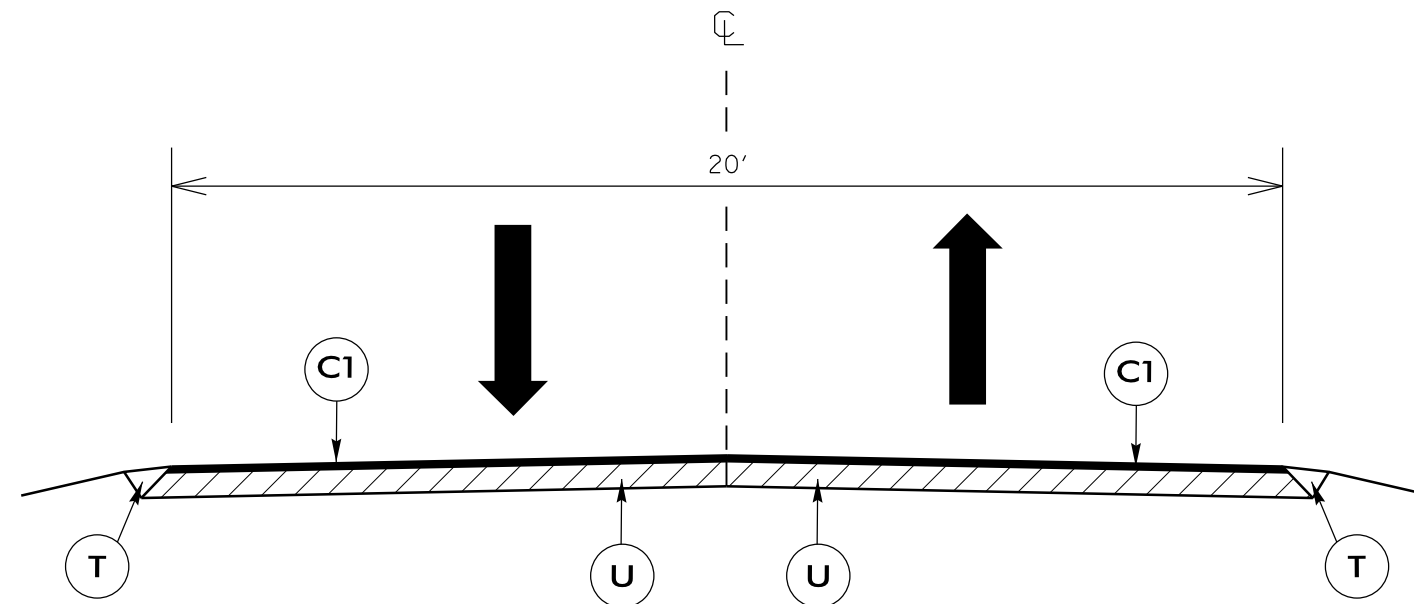


P A V E M E N T   S C H E D U L E

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

NOTES:

- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII.,  
OR AS DIRECTED BY THE ENGINEER.
- \*SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS.
- \*PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS.



**TYPICAL SECTION NO. 3**

USE WITH MAPS 7, 9, & 16

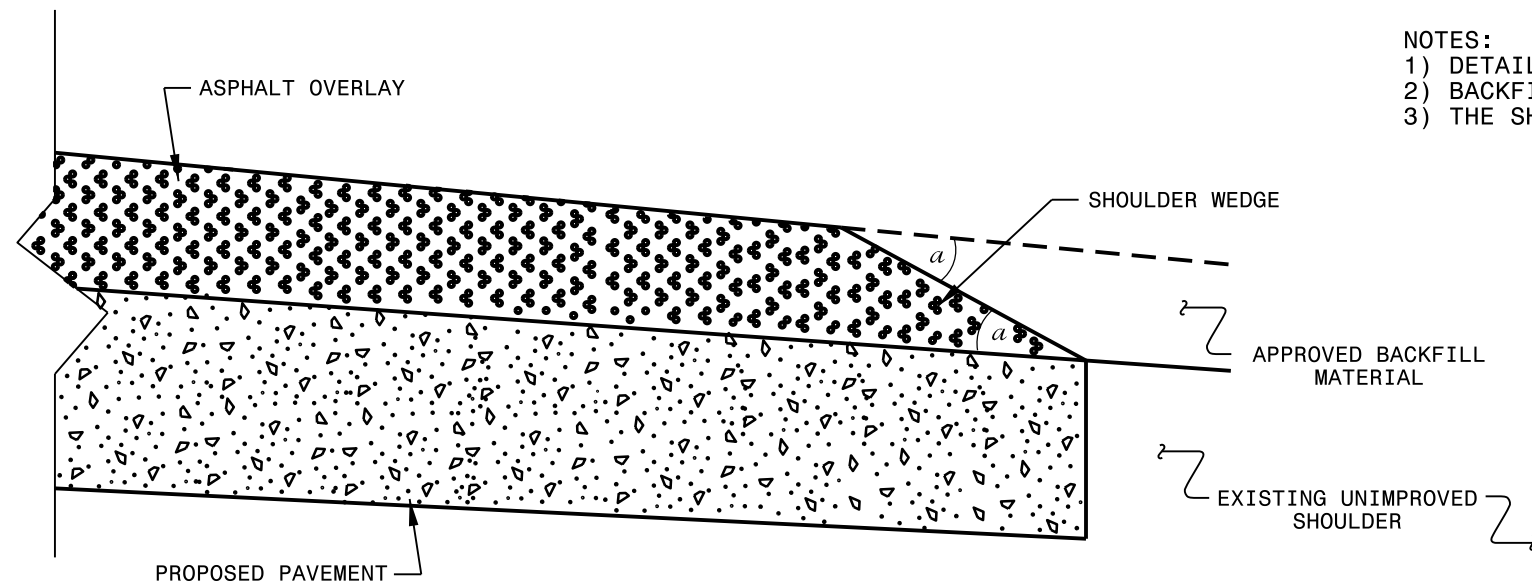
NTS

PROJECT NO.	SHEET NO.	TOTAL NO.
2019CPT.01.09.20211.1, ETC.	10	

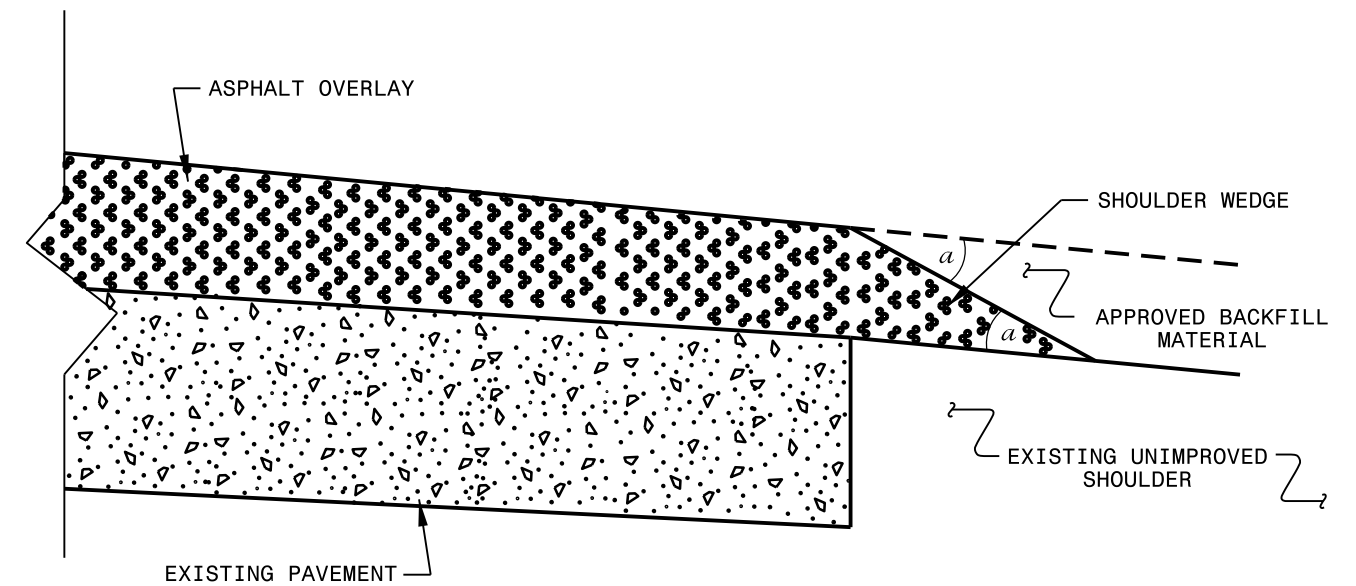
## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	NEW WIDTH	MOBILIZATION	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	MILL PATCHING (0 - 2")	WORK ZONE ADVANCED WARNING SIGNING	TEMPORARY TRAFFIC CONTROL
										MI	FT	FT	LS	SY	TONS	TONS	TONS	TONS	TONS	SF	LS
2019CPT.01.09.20211.1	Chowan	1	SR 1233 WELCH RD	FROM SR 1232 TO NC 32	1	2	2WU	NO	NO	1.18	16	20	1	100	968	1,264		128		80	1
2019CPT.01.09.20211.1	Chowan	2	SR 1232 CANONS FERRY RD	FROM GATES CO TO SR 1233	2	2	2WU	NO	NO	0.42	18		*	300			446	27		40	*
2019CPT.01.09.20211.1	Chowan	3	SR 1232 CANONS FERRY RD	FROM SR 1233 TO SR 1231	2	2	2WU	NO	NO	2.92	20		*	200			3,186	191		164	*
2019CPT.01.09.20211.1	Chowan	4	SR 1231 CANONS FERRY RD	FROM SR 1232 TO NC 32	2	2	2WU	NO	NO	1.17	20		*	300			1,319	79		40	*
2019CPT.01.09.20211.1	Chowan	5	SR 1226 DILLARDS MILL RD	FROM SR 1231 TO SR 1228	2	2	2WU	NO	NO	2.24	20		*	500			2,554	153		144	*
2019CPT.01.09.20211.1	Chowan	6	SR 1222 ROCKY HOCK RD	FROM SR 1227 TO NC 32	2	2	2WU	NO	NO	1.15	20		*	400			1,299	78	75	80	*
2019CPT.01.09.20211.1	Chowan	7	SR 1227 FOREHAND RD	FROM SR 1222 TO SR 1226	3	2	2WU	NO	NO	0.54	20		*	200		595		40		80	*
2019CPT.01.09.20211.1	Chowan	8	SR 1314 CISCO RD	FROM SR 1303 TO NC 32	1	2	2WU	NO	NO	1.85	16	20	*	300	1,517	2,048		205		144	*
2019CPT.01.09.20211.1	Chowan	9	SR 1324 BLANCHARD RD	FROM DEAD END TO SR 1300	3	2	2WU	NO	NO	0.43	20		*	180		461		31		40	*
2019CPT.01.09.20211.1	Chowan	10	SR 1300 SELWIN RD	FROM GATES CO TO NC 37	1	2	2WU	NO	NO	2.07	16	20	*	200	1,697	2,218		225		144	*
2019CPT.01.09.20211.1	Chowan	11	SR 1303 HAPPY HOME RD	FROM SR 1309 TO SR 1305	2	2	2WU	NO	NO	1.71	20		*	200			1,866	112	35	144	*
<b>TOTAL FOR PROJ NO. 2019CPT.01.09.20211.1</b>										<b>15.68</b>			<b>*</b>	<b>2,880</b>	<b>4,182</b>	<b>6,586</b>	<b>10,670</b>	<b>1,269</b>	<b>110</b>	<b>1,100</b>	<b>*</b>
2019CPT.01.09.20371.1	Gates	12	SR 1403 MILLPOND RD	FROM SR 1400 TO US 158	2	2	2WU	NO	NO	1.14	20		*	200			1,244	75		40	*
2019CPT.01.09.20371.1	Gates	13	SR 1400 MILLPOND RD	FROM NC 37 TO SR 1403	2	2	2WU	NO	NO	3.49	20		*	720			3,917	235	50	200	*
2019CPT.01.09.20371.1	Gates	14	SR 1401 FLATBRANCH RD	FROM NC 37 TO SR 1400	2	2	2WU	NO	NO	3.00	20		*	540			3,273	196		144	*
2019CPT.01.09.20371.1	Gates	15	SR 1102 CATHERINES CREEK RD	FROM SR 1100 TO CHOWAN CO	2	2	2WU	NO	NO	2.06	18		*	540			2,068	124	20	144	*
2019CPT.01.09.20371.1	Gates	16	SR 1417 SELWIN RD	FROM CHOWAN CO TO SR 1416	3	2	2WU	NO	NO	0.96	20		*	540		1,095		73		80	*
<b>TOTAL FOR PROJ NO. 2019CPT.01.09.20371.1</b>										<b>10.65</b>			<b>*</b>	<b>2,540</b>		<b>1,095</b>	<b>10,502</b>	<b>703</b>	<b>70</b>	<b>608</b>	<b>*</b>
<b>GRAND TOTAL</b>										<b>26.33</b>			<b>1</b>	<b>5,420</b>	<b>4,182</b>	<b>7,681</b>	<b>21,172</b>	<b>1,972</b>	<b>180</b>	<b>1,708</b>	<b>1</b>

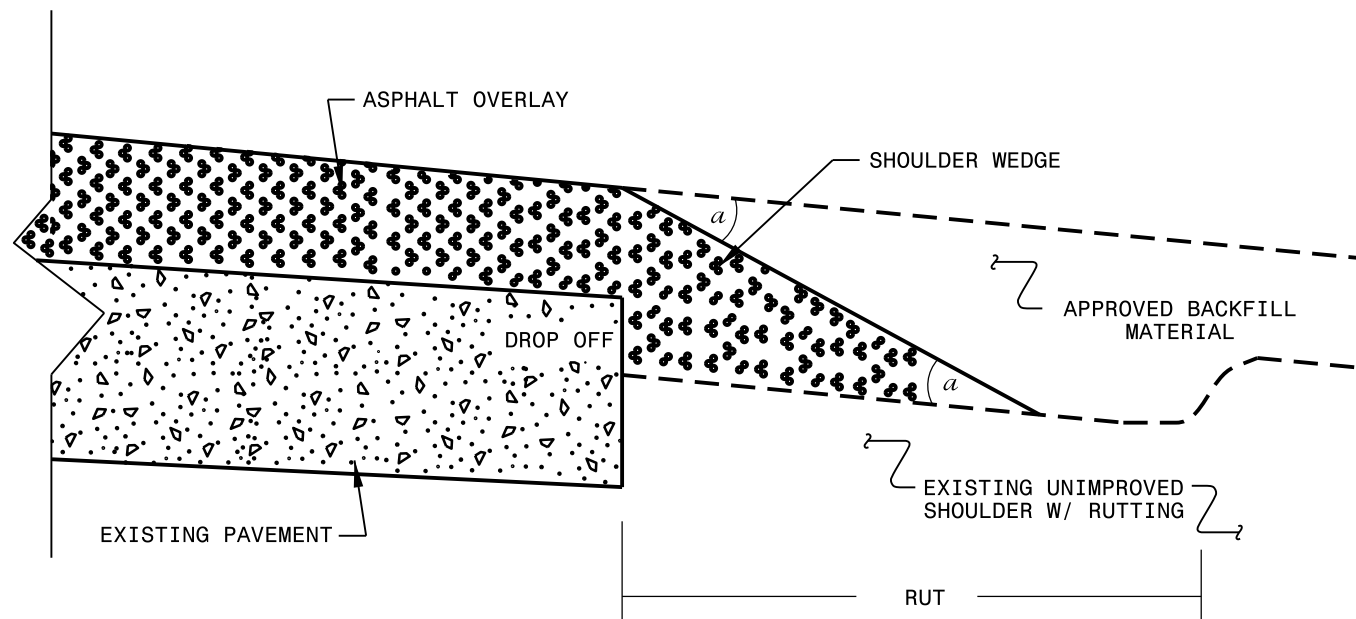
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



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

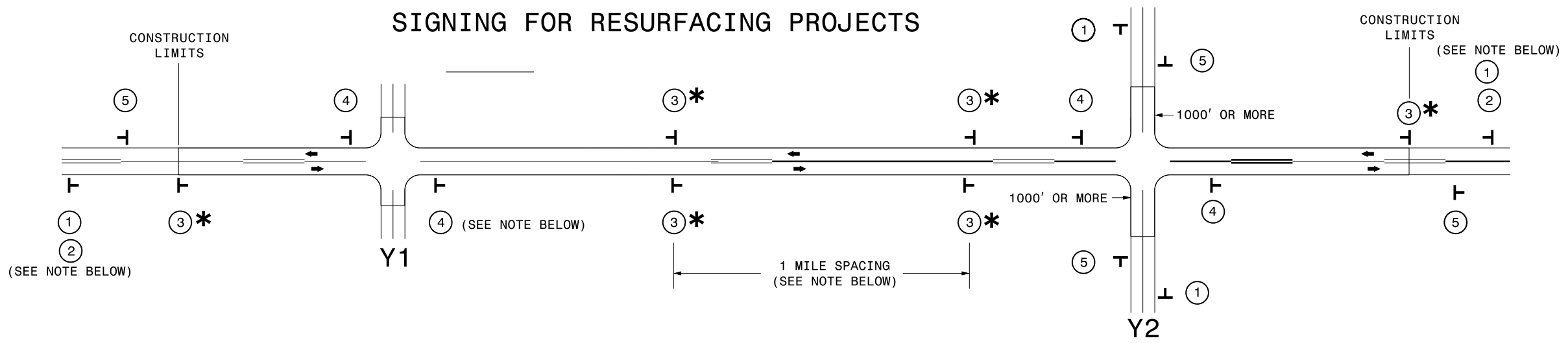


**SHOULDER WEDGE DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- 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.: s:\usr\details\stand\shoulderwedgedetail.dgn	

## SIGNING FOR RESURFACING PROJECTS



**LEGEND**  
 T STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW

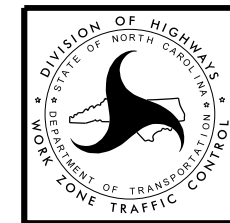
### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	①	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.		
	②	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)		
	③*	 <small>SP 13107 48" X 48"</small>	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.		
	④	 <small>SP 13106 48" X 48"</small>	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.		
⑤	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	<p><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>		

**\* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)**

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:  
 STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



**RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS**