

22-JAN-2015 13:31  
 C:\Users\jconner\Documents\CURRENT PROJECTS\Bertie Co. Milling & Resurfacing\DA00233\_psh.dgn  
 jconner AT DICAD270263

**CONTRACT: DA00233 WBS PROJECT: ICR.10081.29, ETC.**

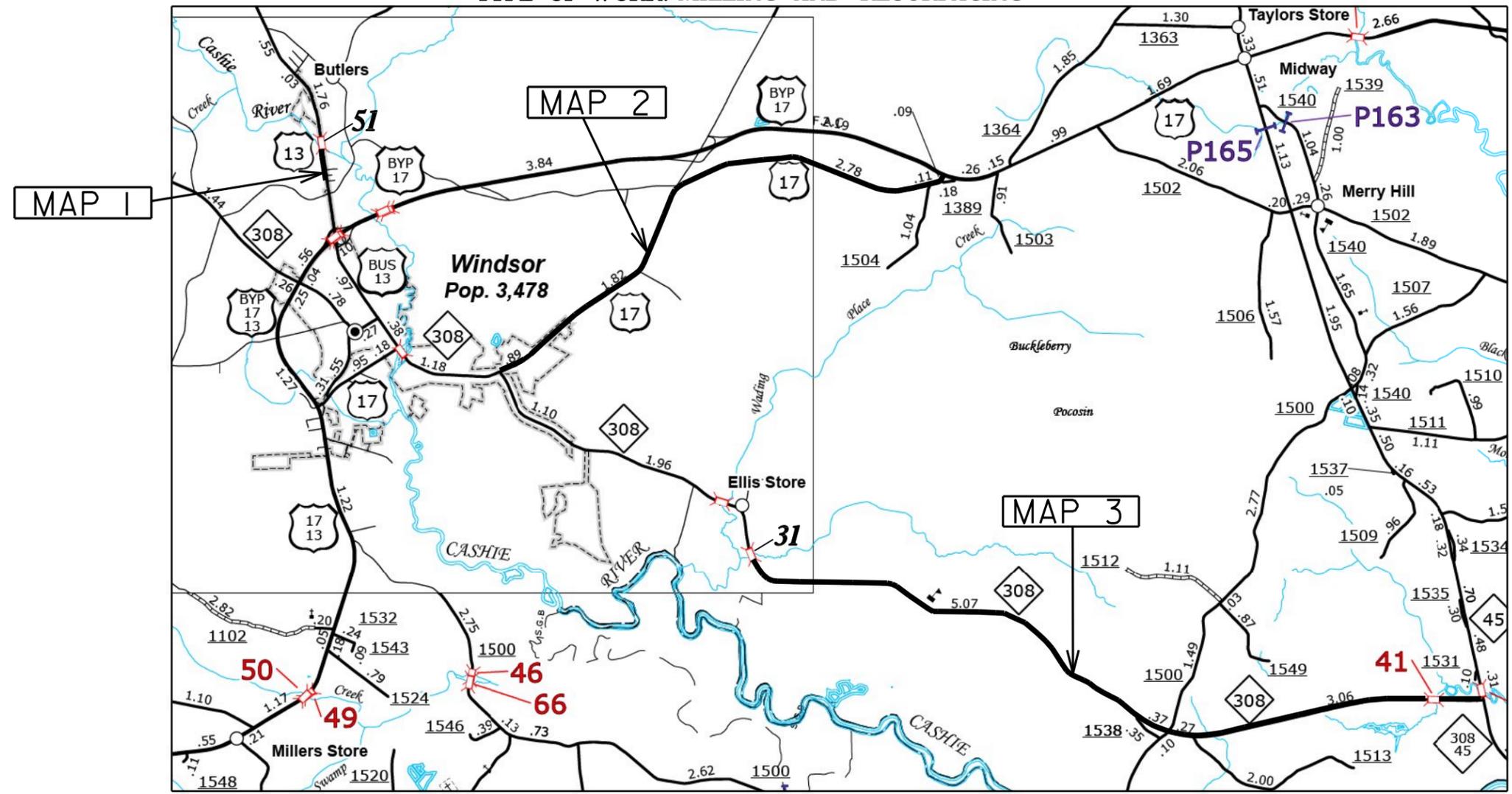


STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**BERTIE COUNTY**

**LOCATION: MAP 1 US 13 FROM BAKER ST. (SR 1388) TO BRIDGE #51**  
**MAP 2 US 17 BUS. FROM US 17 TO NC 308**  
**MAP 3 NC 308 FROM SUTTON CREEK BRIDGE #31 TO NC 45**  
**TYPE OF WORK: MILLING AND RESURFACING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1CR.10081.29, ETC.	1	5
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
1CR.10081.29		MAP 1	
1CR.10081.30		MAP 2	
1CR.10081.31		MAP 3	



**NOT TO SCALE**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 1 = 0.29 MI.  
 LENGTH OF ROADWAY PROJECT MAP 2 = 5.46 MI.  
 LENGTH OF ROADWAY PROJECT MAP 3 = 8.30 MI.

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

2012 STANDARD SPECIFICATIONS

**LETTING DATE:**  
**FEBRUARY 18, 2015**

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

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



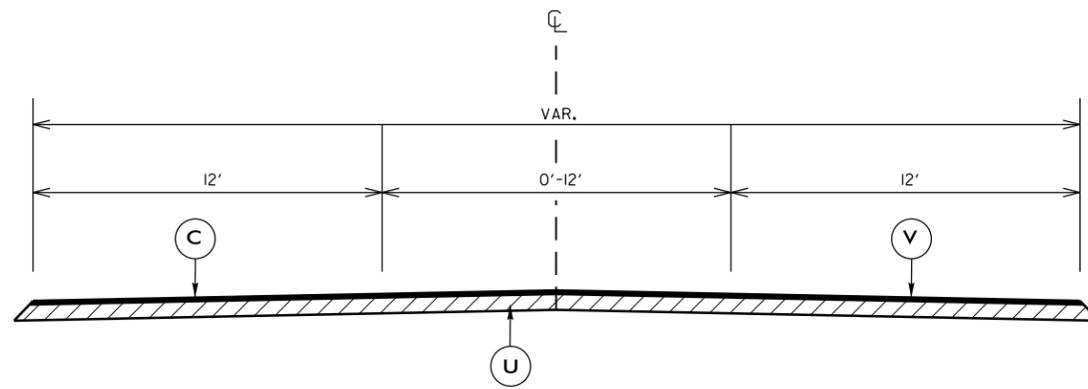
PAVEMENT SCHEDULE

PROJECT REFERENCE NO.	SHEET NO.
1CR.10081.29, ETC.	2

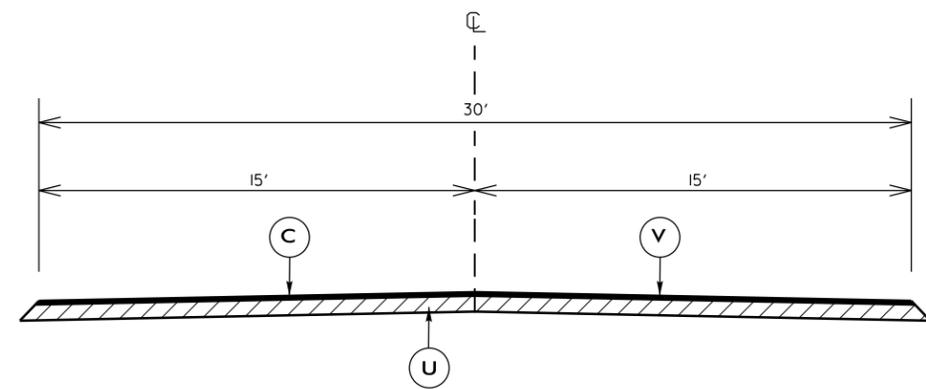
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
V	MILLING BITUMINOUS PAVEMENT. 1½" DEPTH.

NOTES:

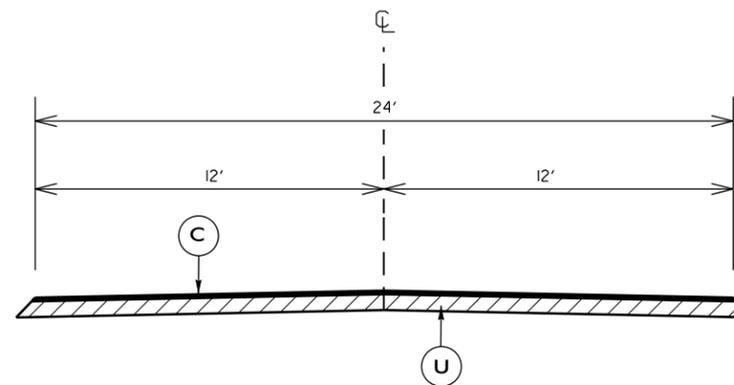
- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
- \*PERMANENT PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS.
- \*CONTRACTOR SHALL PERFORM TEMPORARY PAVEMENT MARKINGS AT MULTILANE SECTIONS.
- \*SHOULDERS TO BE CONSTRUCTED BY OTHERS.



TYPICAL SECTION NO. 1  
USE WITH MAP 1



TYPICAL SECTION NO. 2  
USE WITH MAP 2



TYPICAL SECTION NO. 3  
USE WITH MAP 3

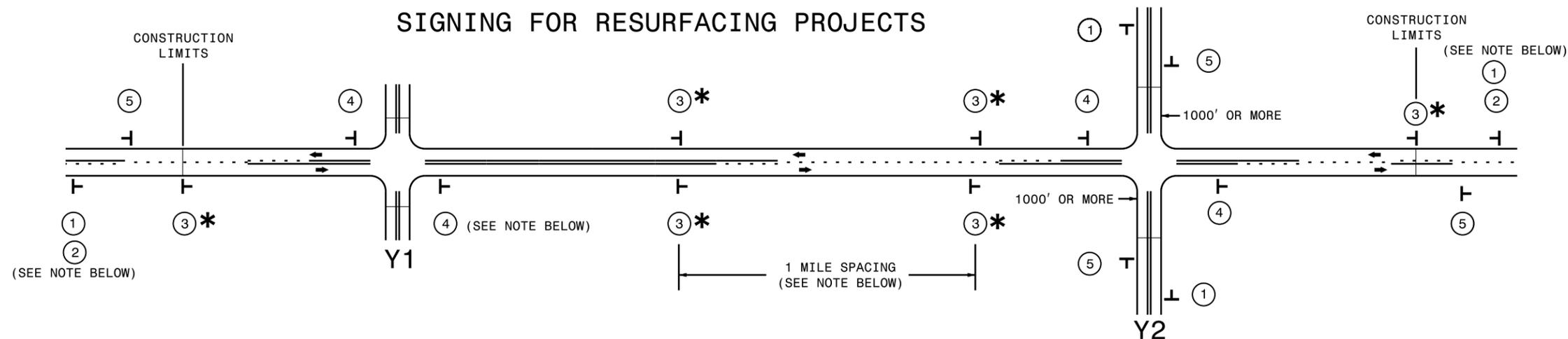
NTS

PROJECT NO.	SHEET NO.
1CR.10081.29, ETC.	3

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	INCIDENTAL STONE BASE TONS	1½" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TONS	TEMPORARY TRAFFIC CONTROL LS	4" PAINT LF	PAINT PAVEMENT MARKING SYMBOL EA
1CR.10081.29	Bertie	1	US 13	FROM BAKER ST. TO BRIDGE #51	1	4	2WD	NO	NO	0.29	36	1		5,550		520	31	1	7,450	5
1CR.10081.30	Bertie	2	US 17 BUS	FROM US 17. TO NC 308	1	2	2WU	NO	NO	5.46	30	"		86,000		8,750	525	*		
1CR.10081.31	Bertie	3	NC 308	FROM SUTTON CREEK BRIDGE(#31) TO NC 45	1	2	2WU	NO	NO	8.3	24	"	92		160	10,994	660	*		
<b>GRAND TOTAL</b>										<b>14.05</b>		<b>1</b>	<b>92</b>	<b>91,550</b>	<b>160</b>	<b>20,264</b>	<b>1,216</b>	<b>1</b>	<b>7,450</b>	<b>5</b>

## 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		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p style="text-align: center;"><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 style="text-align: center;">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 style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	②		#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*		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		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		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	

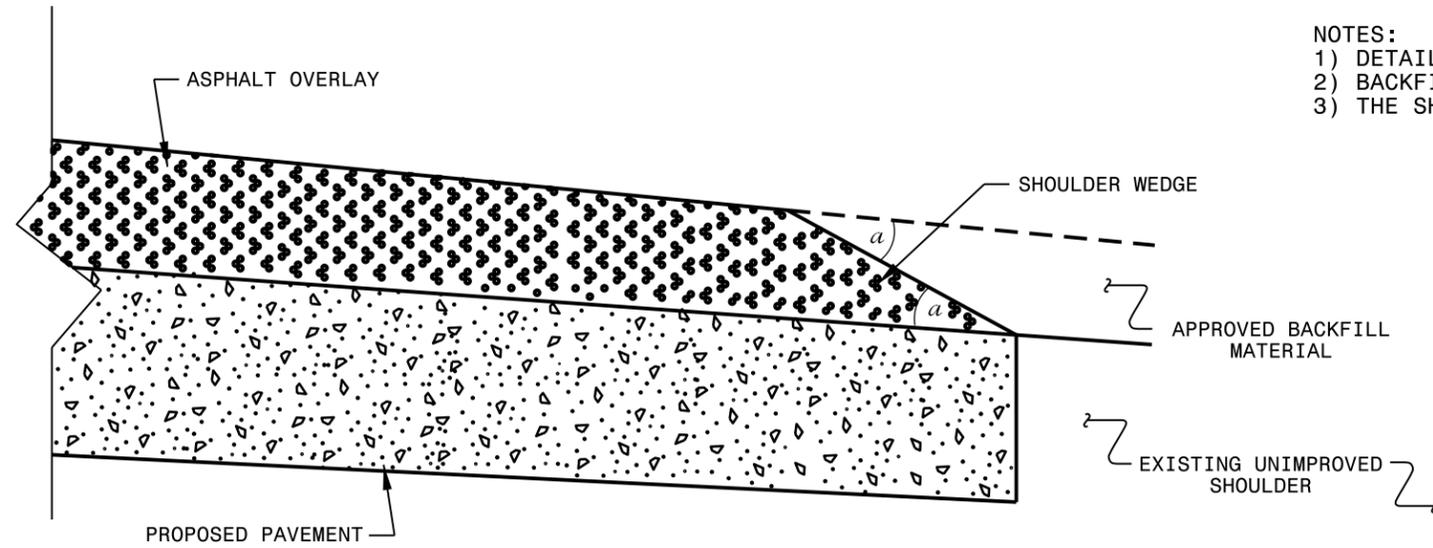
### \* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

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

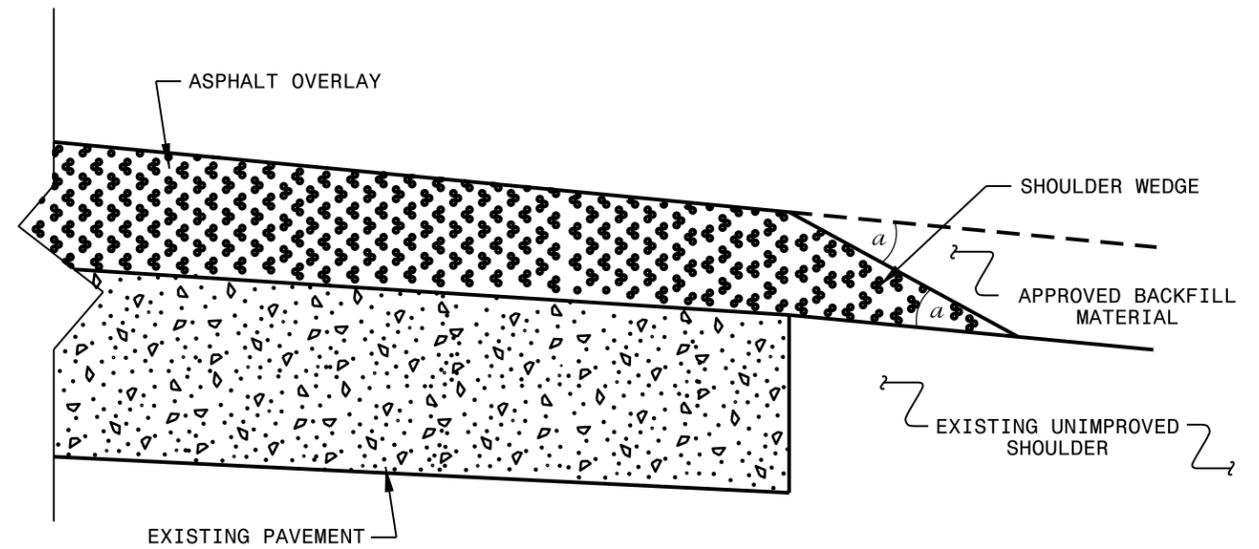


**RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS**

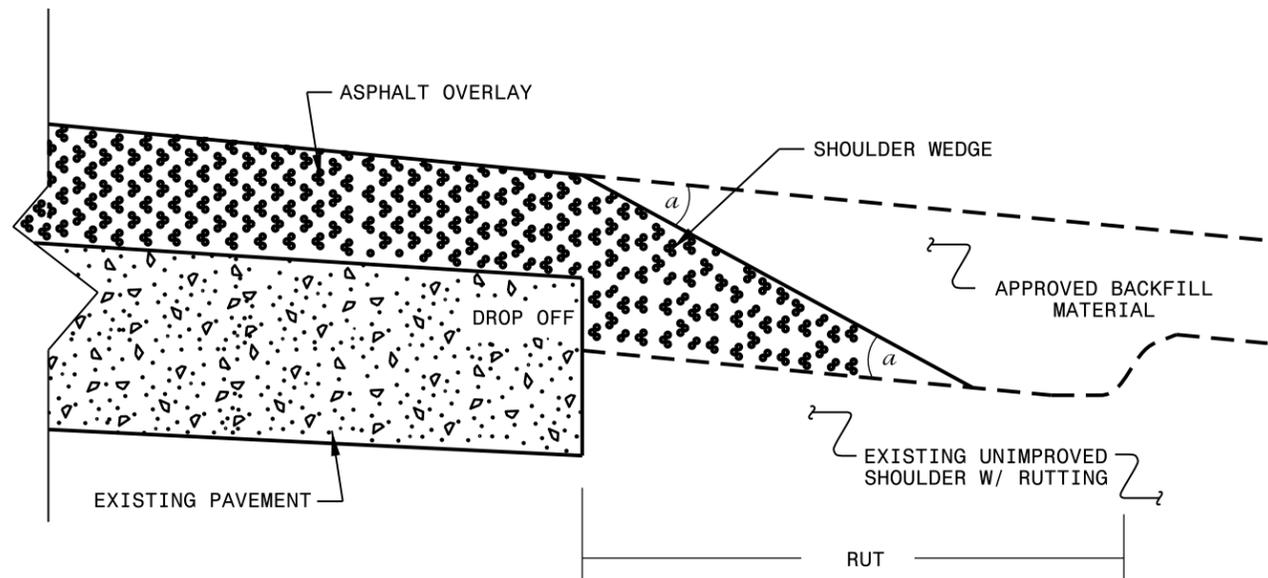
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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	