

09/08/09

**CONTRACT NO.: DA00179 WBS ELEMENT: IC.037049,ETC.**

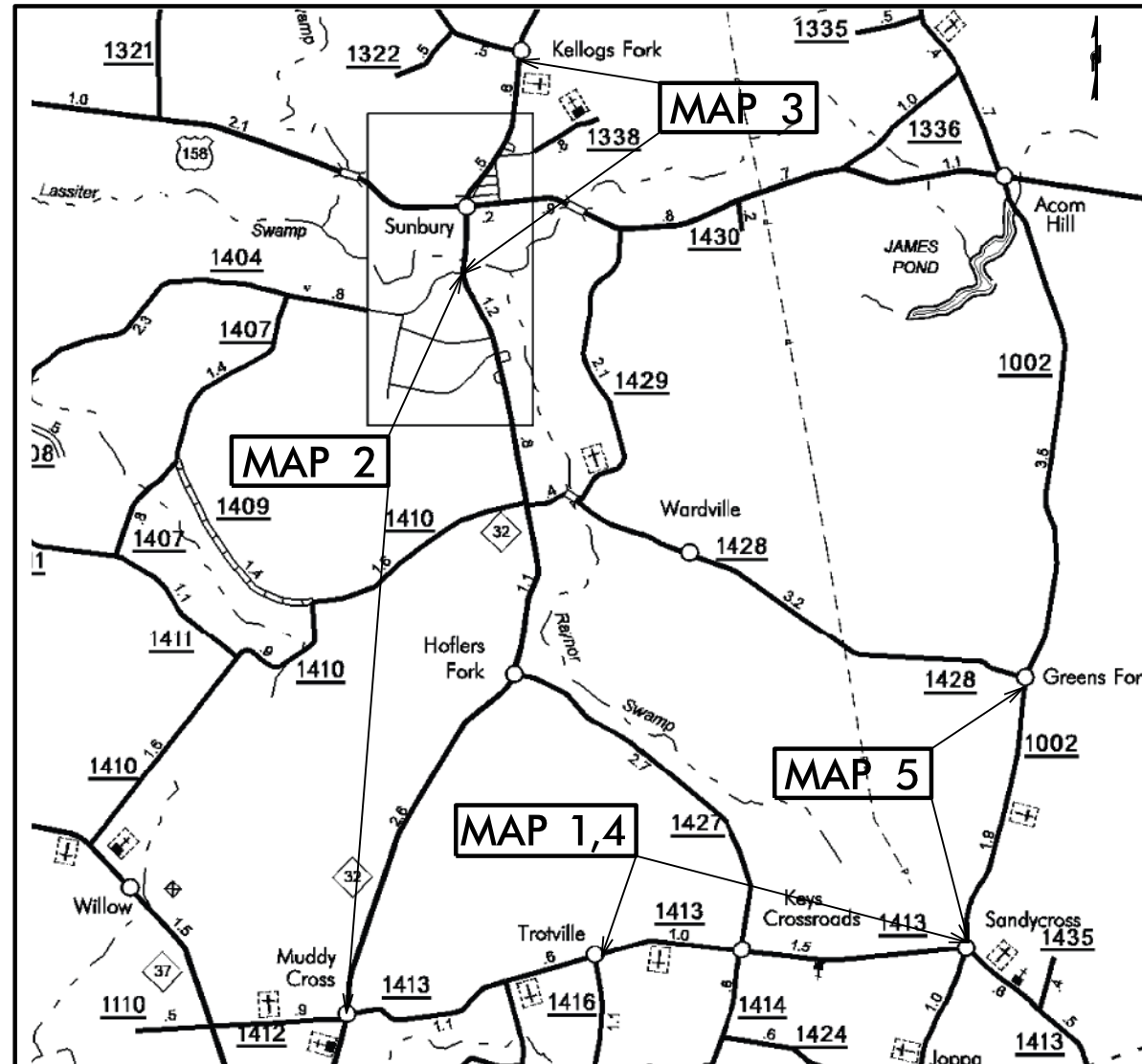
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**GATES COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	1C.037049,ETC.	1	8
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
1C.037049		MAP 1	
1CR.10371.27		MAP 2	
1CR.10371.28		MAP 3	
1CR.20371.39		MAP 4	
1CR.20371.40		MAP 5	

**LOCATION: MAP 1 SR 1413 (SANDY CROSS RD.) FROM SR 1002 TO SR 1416**  
**MAP 2 NC 32 FROM SR 1413 TO SR 1404**  
**MAP 3 NC 32 FROM SR 1404 TO SR 1320**  
**MAP 4 SR 1413 (SANDY CROSS RD.) FROM SR 1002 TO SR 1416**  
**MAP 5 SR 1002 (ACORN HILL RD.) FROM SR 1428 TO SR 1413**

**TYPE OF WORK: RESURFACING & PAVEMENT MARKINGS**



**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT	MAP 1	2.50 MI.
LENGTH OF ROADWAY PROJECT	MAP 2	5.30 MI.
LENGTH OF ROADWAY PROJECT	MAP 3	1.57 MI.
LENGTH OF ROADWAY PROJECT	MAP 4	2.50 MI.
LENGTH OF ROADWAY PROJECT	MAP 5	1.85 MI.

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

113 Airport Dr., Edenton NC, 27932

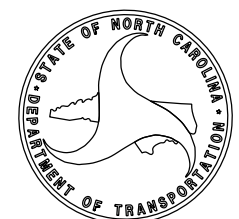
2012 STANDARD SPECIFICATIONS

LETTING DATE:

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

C.E. SLACHTA  
DIVISION PROPOSALS ENGINEER

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**



# C O N T R A C T 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 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
E1	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
U	EXISTING PAVEMENT

PAVEMENT SCHEDULE

PROJECT REFERENCE NO.	SHEET NO.
1C.037049,ETC.	3

E1	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

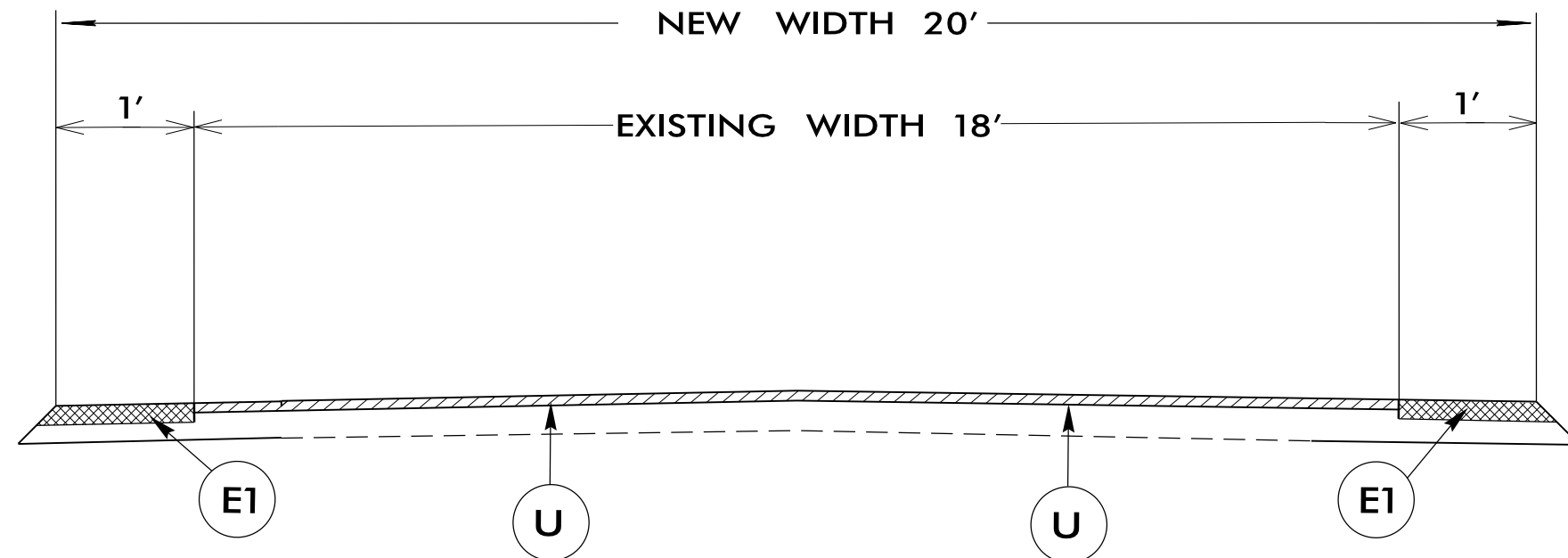
NOTES:

\*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI.,  
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

\*SHOULDERS TO BE RECONSTRUCTED BY OTHERS



**TYPICAL SECTION NO.1**

USE WITH MAP 1

NTS

08-NOV-2013 12:11  
E:\District1\Drawings\Map3\2013\Gates\gatespava003\003\_1.S\_e1n\_pavemop.dgn  
pava003\_1

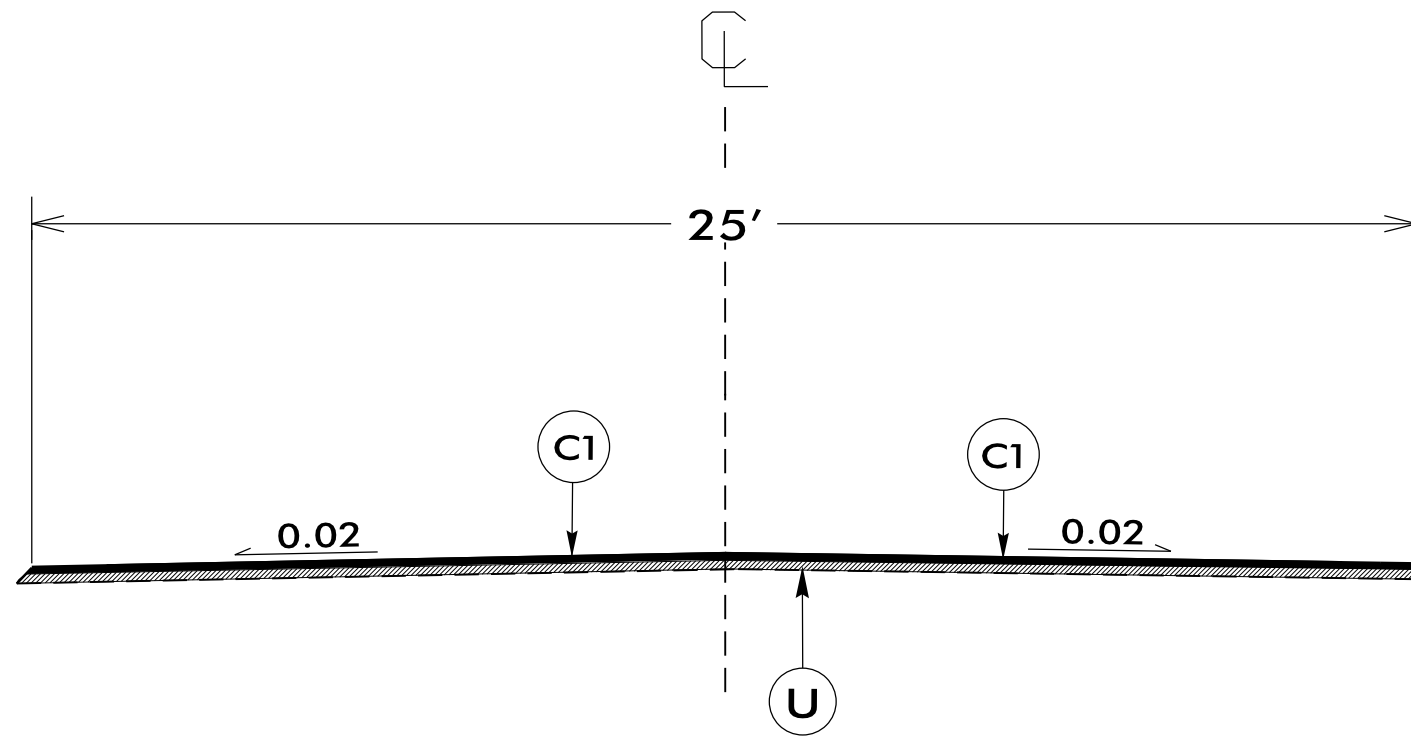
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
1C.037049,ETC.	4

NOTES:

- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI., 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
- \*SHOULDERS TO BE RECONSTRUCTED BY OTHERS
- \*THE CONTRACTOR SHALL INSTALL ALL INDUCTIVE LOOPS PRIOR TO THE FINAL SURFACE LAYER BEING APPLIED



**TYPICAL SECTION NO.2**

USE WITH MAP 2,3

NTS

PAVEMENT SCHEDULE

C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
1C.037049,ETC.	5

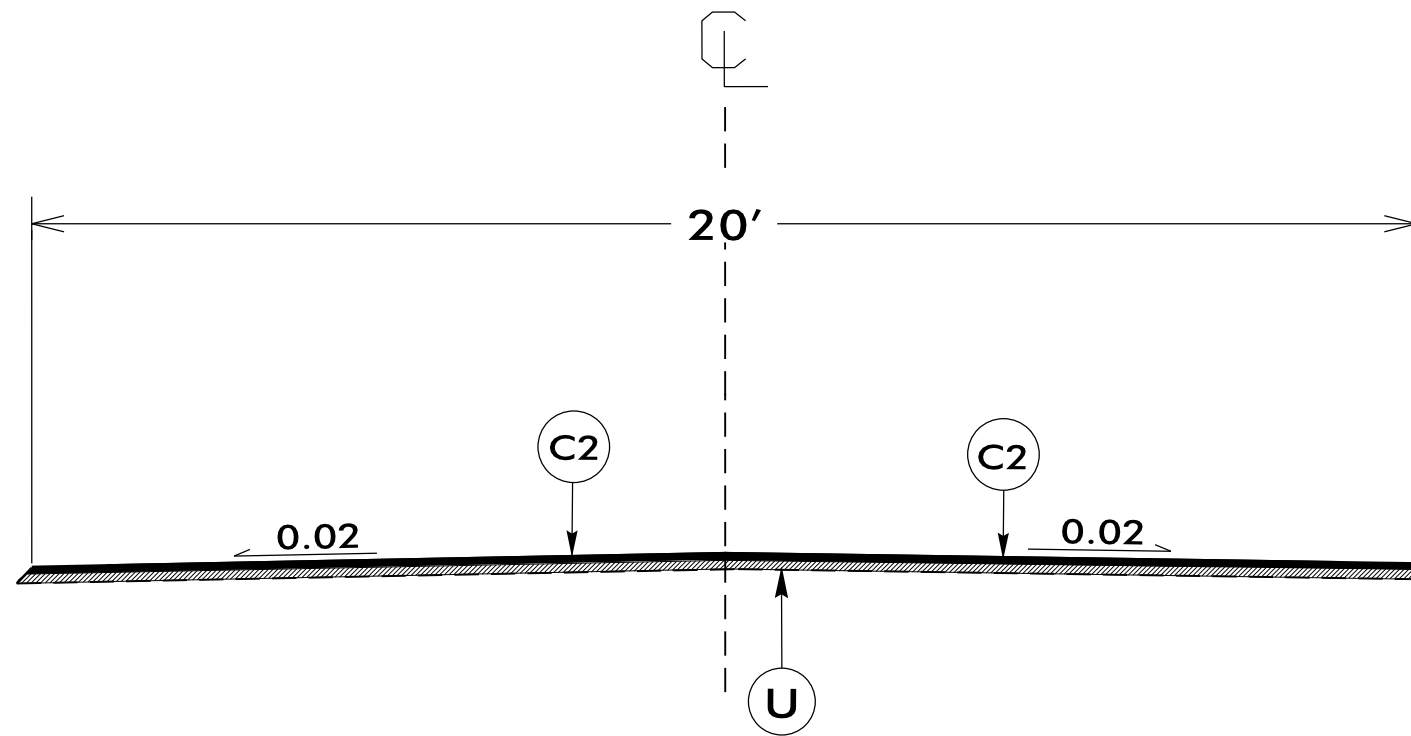
NOTES:

\*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI., 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

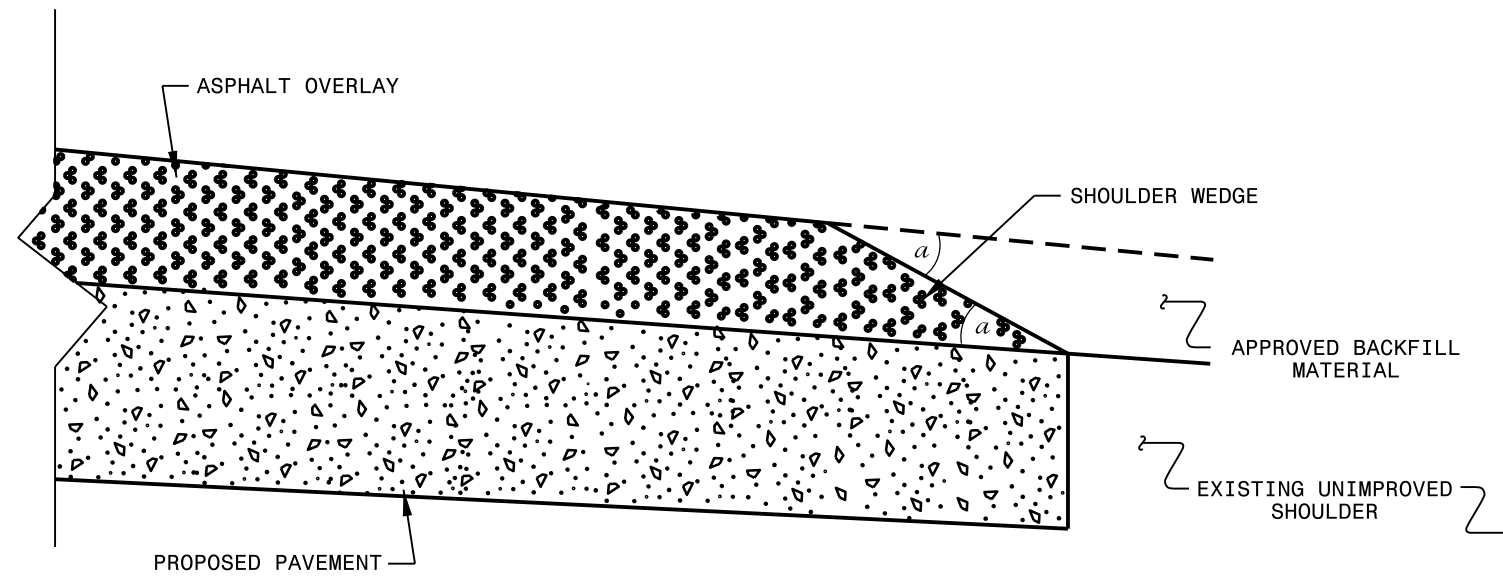
\*SHOULDERS TO BE RECONSTRUCTED BY OTHERS



TYPICAL SECTION NO.3

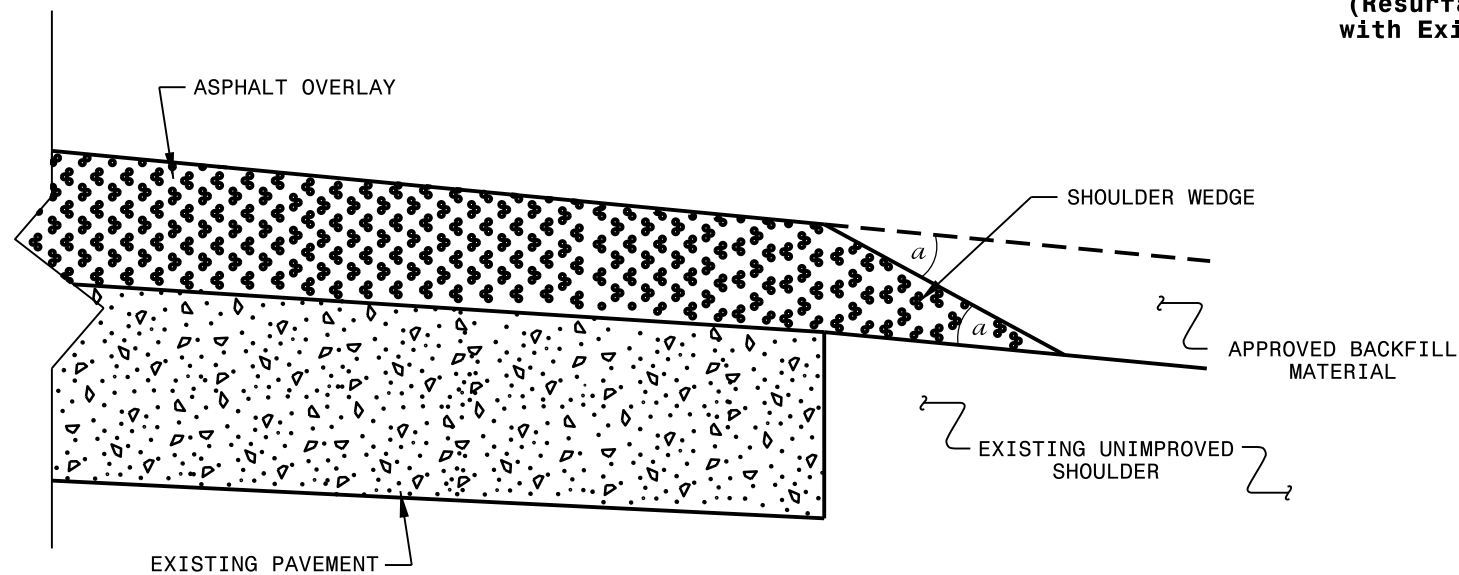
USE WITH MAP 4,5

NTS



### SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or  
with Existing Paved Shoulder > 2 ft.)



### SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

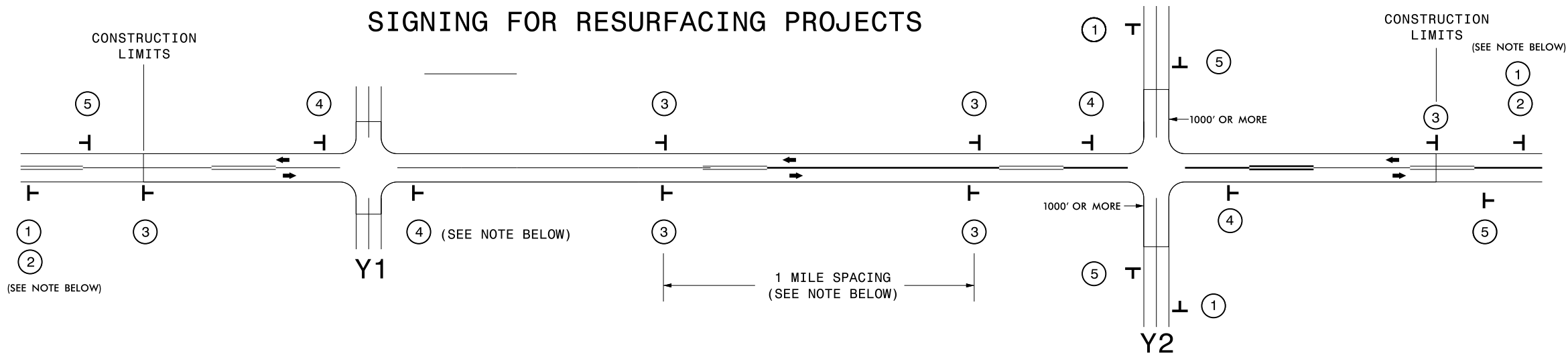
**NOTES:**

- 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.

*a* - 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	

# SIGNING FOR RESURFACING PROJECTS



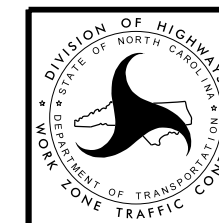
LEGEND	
T	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①	<p>ROAD WORK AHEAD W20-1 48" X 48"</p>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</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;"> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	②	<p>NEXT XX MILES W7-3aP 24" X 18"</p>	#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	<p>LOW/SOFT SHOULDER SP 13107 48" X 48"</p>	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	<p>ROAD UNDER CONST SP 13106 48" X 48"</p>	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	<p>END ROAD WORK G20-2 A 48" X 24"</p>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	

08 NOV 2013 13:22  
E:\District\IT\Drawings\2013\Gates\pave003\003.LS.din\_pavemap.dgn  
DWGSS - AT DIC026493



RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS

PROJECT NO.	SHEET NO.	TOTAL NO.
1C.037049, ETC.	8	8

### 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	1.5" TO 3" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS
1C.037049	Gates	1	SR 1413 SANDY CROSS ROAD	FROM SR 1416 TROTVILLE RD TO SR 1002 ACORN HILL RD	1	2	2WU	NO	NO	2.5	18	1	40			1,130			50
1CR.10371.27	Gates	2	NC 32	FROM SR 1413 (SANDY CROSS) RD TO SR 1404 (SILVER SPRING)	2	2	2WU	NO	NO	5.3	25	*	40		25		6,762		406
1CR.10371.28	Gates	3	NC 32	FROM SILVER SPRING TO SR 1320 KELLOG FORK ROAD	2	2	2WU	NO	NO	1.57	25	*	20	1,750	25		2,344		141
1CR.20371.39	Gates	4	SR 1413 SANDY CROSS ROAD	FFROM SR 1002 ACORN HILL ROAD TO SR 1416 TROTVILLE RD	3	2	2WU	NO	NO	2.5	20	*						2,435	163
1CR.20371.40	Gates	5	SR 1002 ACORN HILL RD	FROM SR 1428 BOSLEY RD TO SR 1413 SANDY CROSS ROAD	3	2	2WU	NO	NO	1.85	20	*						1,802	121
<b>GRAND TOTAL</b>										<b>13.72</b>		<b>1</b>	<b>100</b>	<b>1,750</b>	<b>50</b>	<b>1,130</b>	<b>9,106</b>	<b>4,237</b>	<b>881</b>

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	GENERIC TRAFFIC CONTROL ITEM TEMPORARY TRAFFIC CONTROL LS	GENERIC SIGNING ITEM ADVANCE/GENERAL WARNING SIGNING (STATIONARY) SF	4" WHITE PAINT LF	4" YELLOW PAINT LF	24" WHITE PAINT LF	INDUCTIVE LOOP SAWCUT LF	LEAD-IN-CABLE (14-2) LF
1C.037049	Gates	1	SR 1413 SANDY CROSS ROAD	FROM SR 1416 TROTVILLE RD TO SR 1002 ACORN HILL RD	1	2	2WU	2.5	18	1	80	26,000	16,000			
1CR.10371.27	Gates	2	NC 32	FROM SR 1413 (SANDY CROSS) RD TO SR 1404 (SILVER SPRING)	2	2	2WU	5.3	20	*	80	114,056	69,960			
1CR.10371.28	Gates	3	NC 32	FROM SILVER SPRING TO SR 1320 KELLOG FORK ROAD	2	2	2WU	1.57	20	*	128	33,786	20,724	50	680	640
1CR.20371.39	Gates	4	SR 1413 SANDY CROSS ROAD	FFROM SR 1002 ACORN HILL ROAD TO SR 1416 TROTVILLE RD	3	2	2WU	2.5	25	*						
1CR.20371.40	Gates	5	SR 1002 ACORN HILL RD	FROM SR 1428 BOSLEY RD TO SR 1413 SANDY CROSS ROAD	3	2	2WU	1.85	25	*		19,000	12,000			
<b>GRAND TOTAL</b>								<b>13.72</b>		<b>1</b>	<b>288</b>	<b>192,842</b>	<b>118,684</b>	<b>50</b>	<b>680</b>	<b>640</b>