

05/08/99

WBS ELEMENT: IC.046070, ETC.

CONTRACT NO.: DA00264

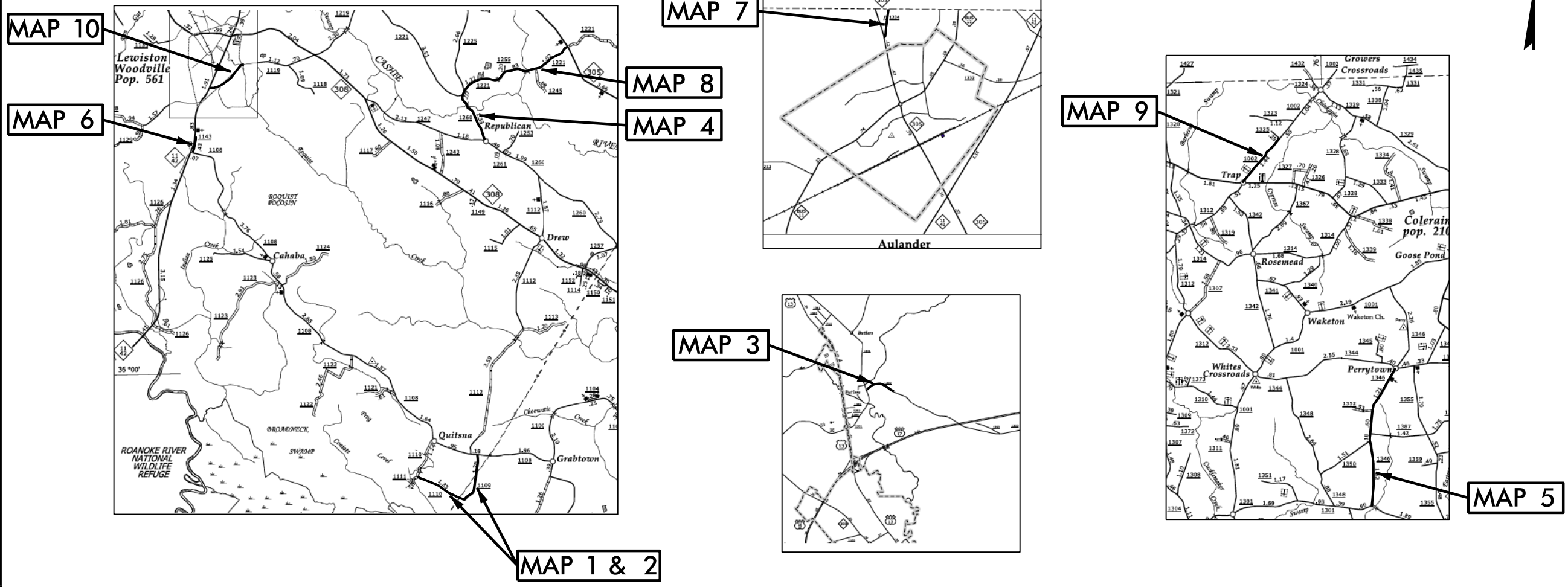
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BERTIE COUNTY

LOCATION: MAP 1 SR 1110 FROM SR 1111 TO SR 1109
 MAP 2 SR 1109 FROM SR 1110 TO SR 1108
 MAP 3 SR 1300 FROM SR 1301 TO PVMT CHANGE
 MAP 4 SR 1260 FROM SR 1221 TO SR 1247
 MAP 5 SR 1346 FROM SR 1344 TO SR 1301
 MAP 6 SR 1143 FROM NC 11 TO SR 1108
 MAP 7 SR 1234 FROM NC 305 TO HERTFORD CL
 MAP 8 SR 1221 FROM NC 305 TO SR 1260
 MAP 9 SR 1002 FROM NC 42 TO SR 1325
 MAP 10 SR 1119 FROM NC 11 TO SR 1120

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	IC.046070, ETC.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2016CPT.01.05.20081.1		MAPS 1 - 10	



NTS

PROJECT LENGTH	
LENGTH OF ROADWAY PROJECT	MAP 1 = 1.34 MI.
LENGTH OF ROADWAY PROJECT	MAP 2 = 1.27 MI.
LENGTH OF ROADWAY PROJECT	MAP 3 = 1.01 MI.
LENGTH OF ROADWAY PROJECT	MAP 4 = 1.33 MI.
LENGTH OF ROADWAY PROJECT	MAP 5 = 3.57 MI.
LENGTH OF ROADWAY PROJECT	MAP 6 = 0.40 MI.
LENGTH OF ROADWAY PROJECT	MAP 7 = 0.30 MI.
LENGTH OF ROADWAY PROJECT	MAP 8 = 3.14 MI.
LENGTH OF ROADWAY PROJECT	MAP 9 = 1.41 MI.
LENGTH OF ROADWAY PROJECT	MAP 10 = 1.04 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

05/08/99

WBS ELEMENT: IC.046070, ETC.

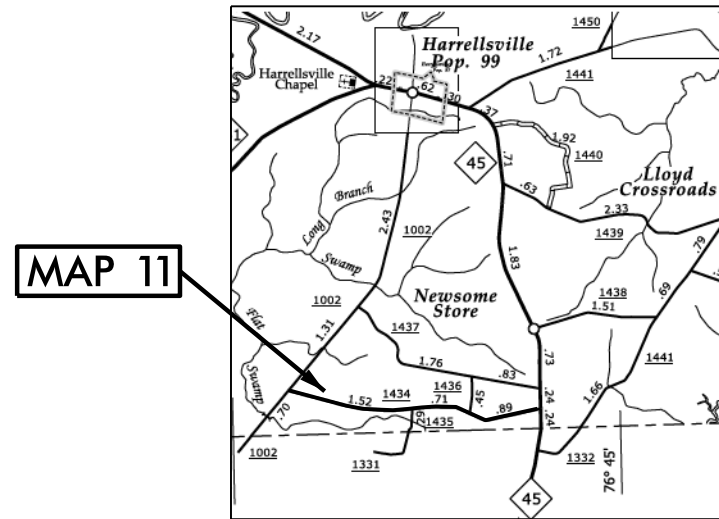
CONTRACT NO.: DA00264

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

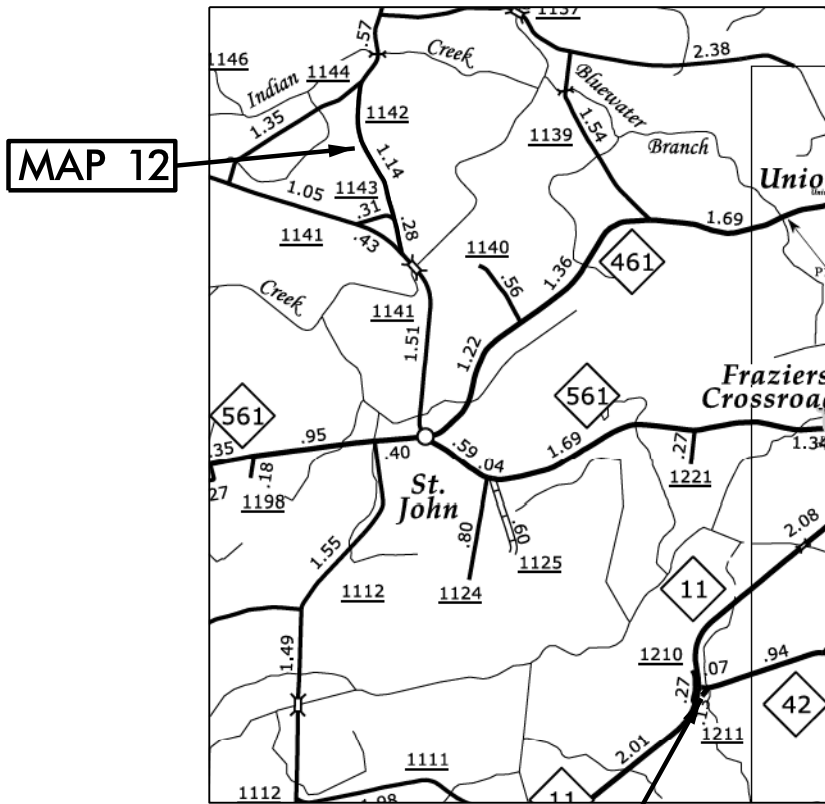
HERTFORD COUNTY

LOCATION: MAP 11 SR 1434 FROM SR 1002 TO NC 45
 MAP 12 SR 1142 FROM SR 1160 TO SR 1141
 MAP 13 SR 1183 FROM SR 1160 TO END
 MAP 14 SR 1211 FROM NC 42 TO END
 MAP 15 SR 1131 FROM NC 461 TO NC 11
 MAP 16 SR 1108 FROM NC 561 TO NC 11
 MAP 17 SR 1155 FROM NC 561 TO NORTHAMPTON CO.
TYPE OF WORK: WIDENING & RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	IC.046070, ETC.	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2016CPT.01.05.20461.1		MAP 11 - 17	
IC.046070		MAP 17	

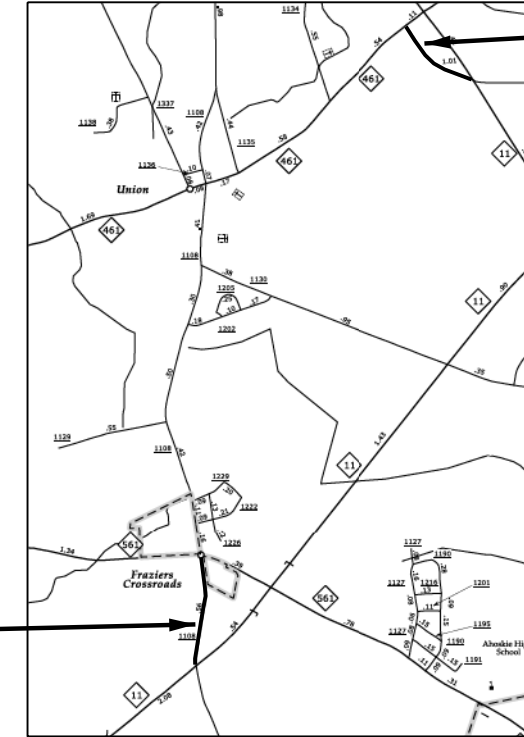


MAP 11



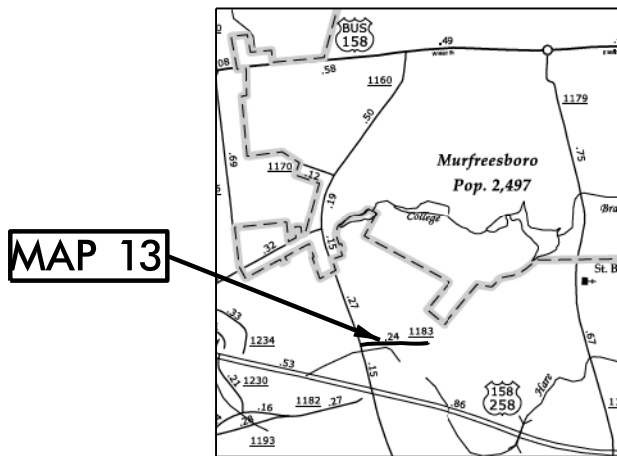
MAP 12

MAP 14

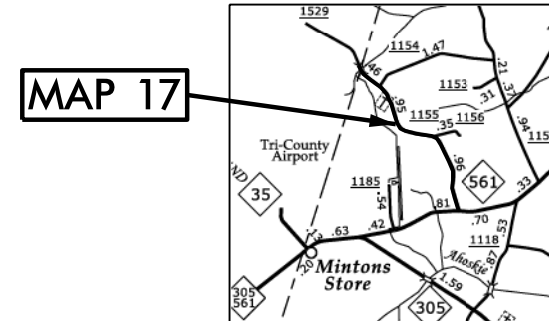


MAP 15

MAP 16



MAP 13



MAP 17

NTS

PROJECT LENGTH	
LENGTH OF ROADWAY PROJECT MAP 11	= 3.08 MI.
LENGTH OF ROADWAY PROJECT MAP 12	= 2.77 MI.
LENGTH OF ROADWAY PROJECT MAP 13	= 0.29 MI.
LENGTH OF ROADWAY PROJECT MAP 14	= 0.07 MI.
LENGTH OF ROADWAY PROJECT MAP 15	= 0.41 MI.
LENGTH OF ROADWAY PROJECT MAP 16	= 0.51 MI.
LENGTH OF ROADWAY PROJECT MAP 17	= 2.20 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**

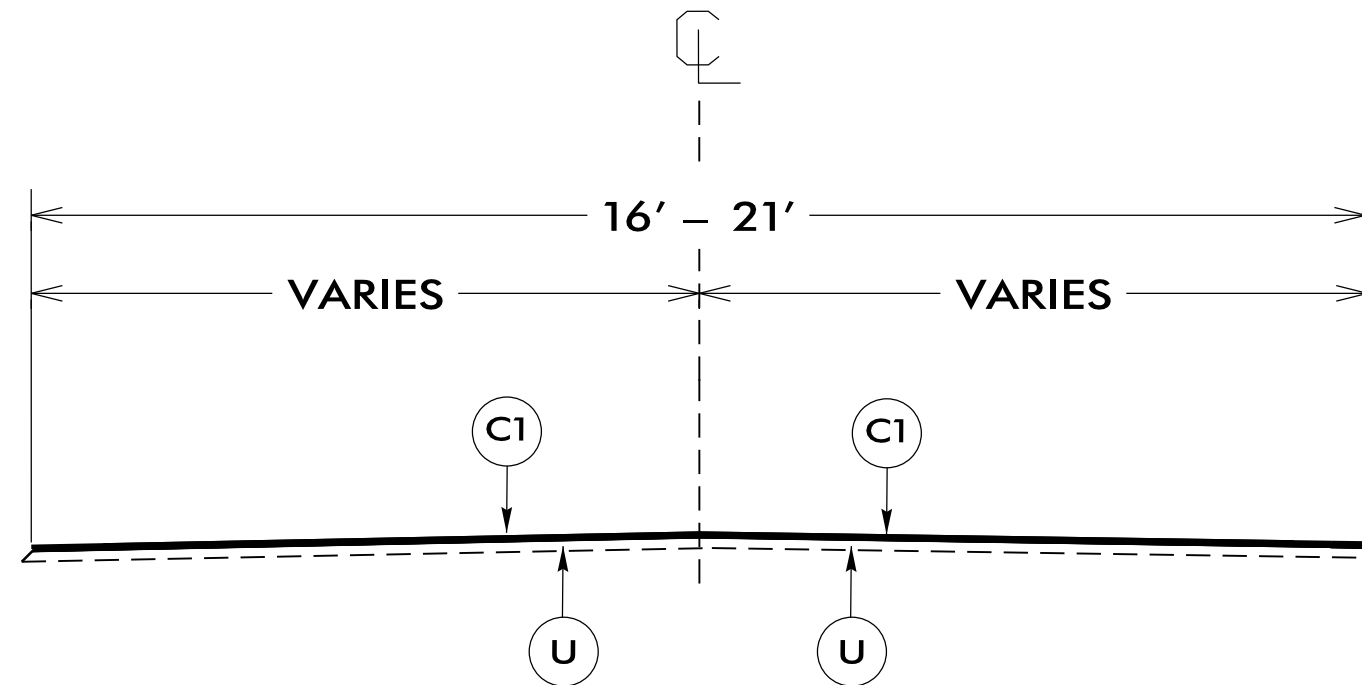
P A V E M E N T S C H E D U L E

C1	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
1C.046070, ETC.	3

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 SUMMARY OF QUANTITIES
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS
- *WARM MIX ASPHALT REQUIRED ON MAP 11 (SR 1434).



TYPICAL SECTION NO. 1

USE WITH MAPS 1-3, 5-7, 9-11, 13-16

NTS

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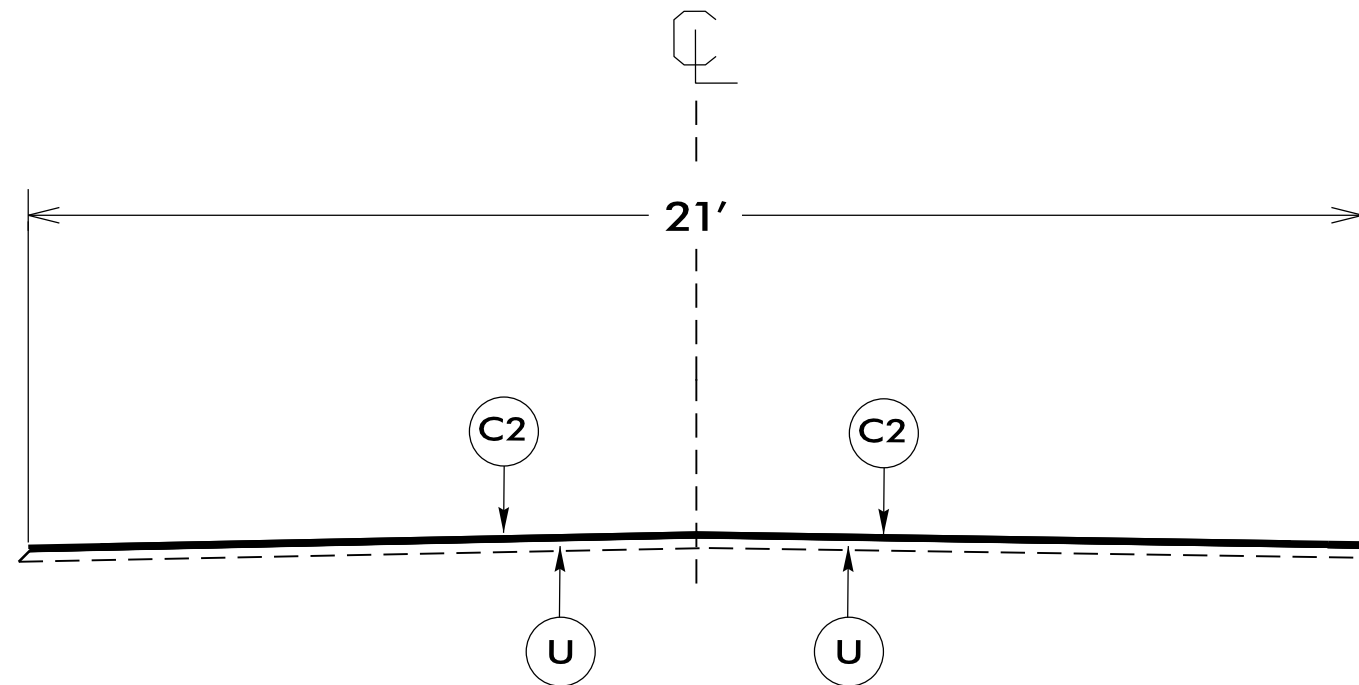
PAVEMENT SCHEDULE

C2	PROP. APPROX. 1.5" 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.046070, ETC.	4

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 SUMMARY OF QUANTITIES
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO. 2

USE WITH MAPS 4 & 8

NTS

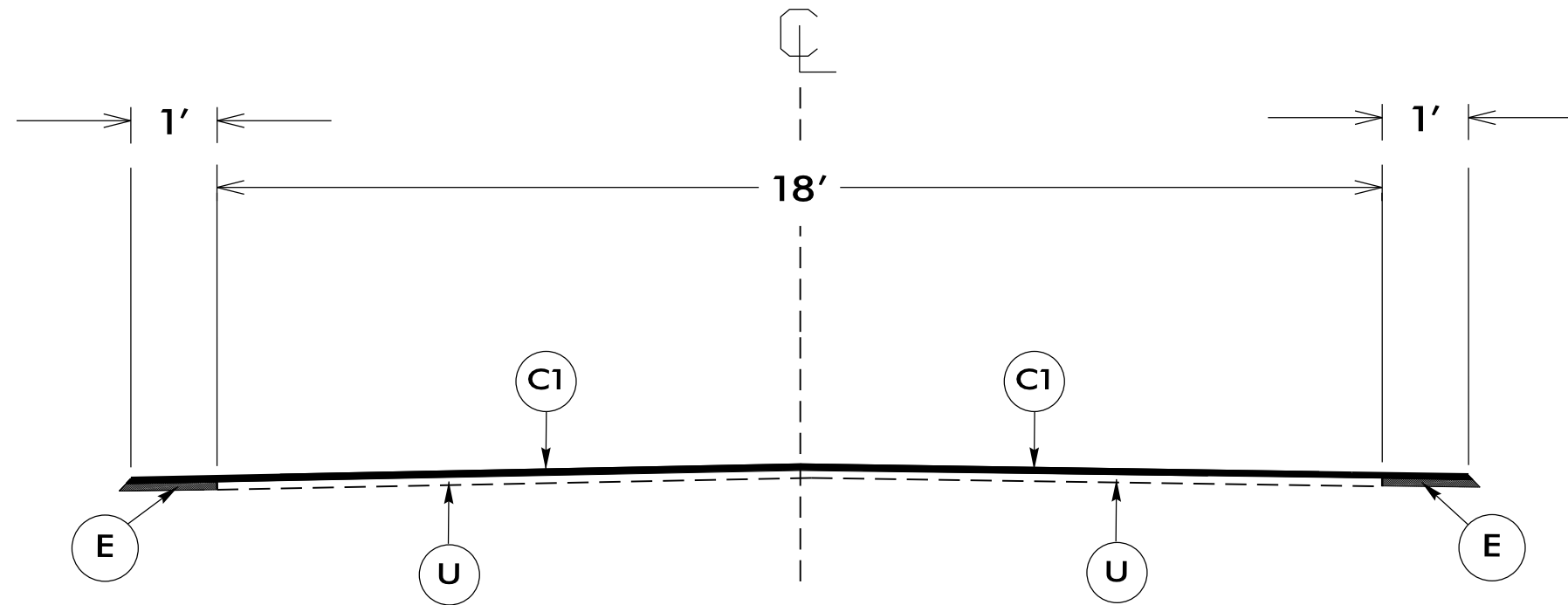
P A V E M E N T S C H E D U L E

PROJECT REFERENCE NO.	SHEET NO.
1C.046070, ETC.	5

C1	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
E	PROP. APPROX. 5.5" 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 RADII., OR AS DIRECTED BY THE ENGINEER
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS
- *WARM MIX ASPHALT REQUIRED ON MAP 12 (SR 1142)
- *PER THE BRIDGE MAINTENANCE DEPT, BRIDGE #64 ON MAP 17 (SR 1155) SHALL BE MILLED 1" AND RESURFACED WITH ONLY 1" OF ASPHALT SO THAT ITS CURRENT POSTING CAN BE RETAINED.



TYPICAL SECTION NO.3

USE WITH MAP 12 & 17

NTS

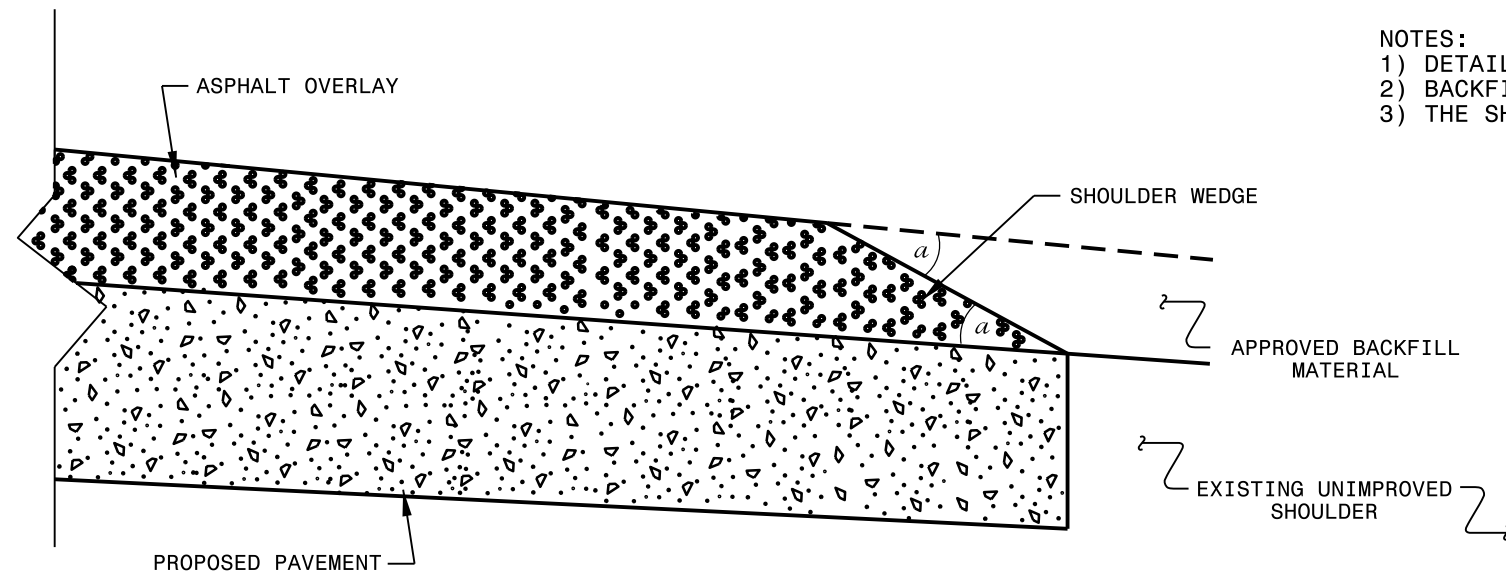
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PROJECT NO.	SHEET NO.	TOTAL NO.
1C.046070, ETC.	6	

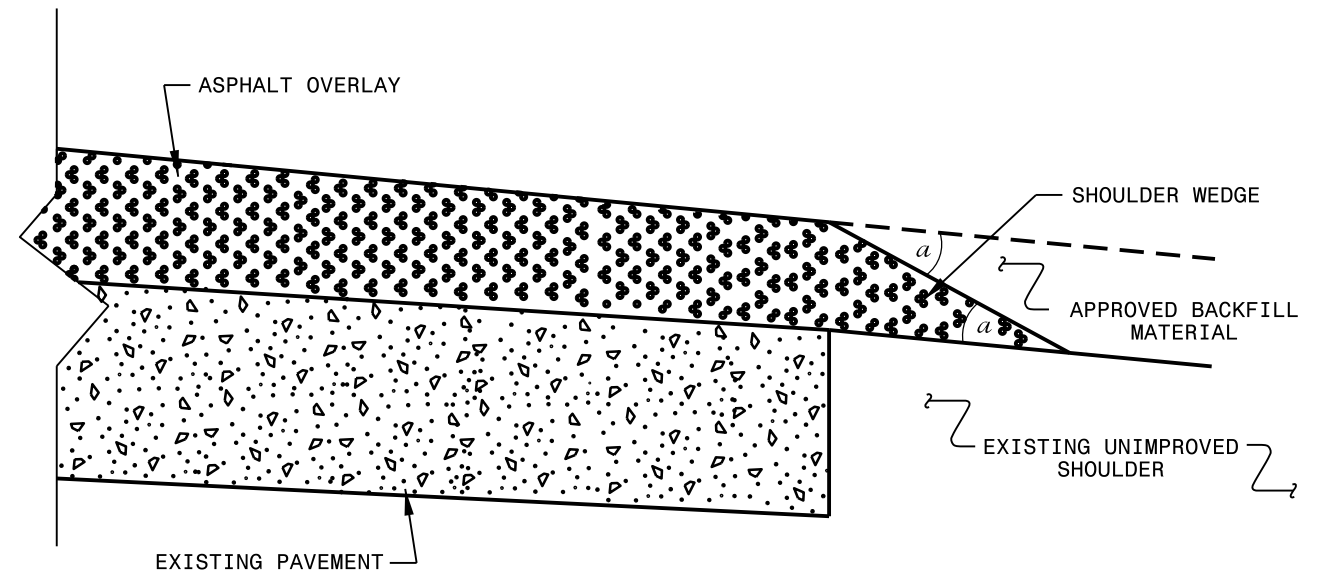
SUMMARY OF QUANTITIES

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	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	6" CONCRETE DRIVEWAY SY	WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMP TRAFFIC CONTROL LS
2016CPT.01.05.20081.1	Bertie	1	SR 1110	FROM SR 1111 TO SR 1109	1	2	2WU	NO	NO	1.34	17	1	-	40	-	-	960	64	-	56	1
2016CPT.01.05.20081.1	Bertie	2	SR 1109	FROM SR 1110 TO SR 1108	1	2	2WU	NO	NO	1.27	18	*	-	35	-	-	955	64	-	56	*
2016CPT.01.05.20081.1	Bertie	3	SR 1300	FROM SR 1301 TO PAVEMENT CHANGE	1	2	2WU	NO	NO	1.01	20	*	-	100	-	-	848	57	-	80	*
2016CPT.01.05.20081.1	Bertie	4	SR 1260	FROM SR 1221 TO SR 1247	2	2	2WU	NO	NO	1.33	21	*	-	80	-	1,404	-	84	-	91	*
2016CPT.01.05.20081.1	Bertie	5	SR 1346	FROM SR 1344 TO SR 1301	1	2	2WU	NO	NO	3.57	20	*	-	120	-	-	3,014	202	-	150	*
2016CPT.01.05.20081.1	Bertie	6	SR 1143	FROM NC 11 TO SR 1108	1	2	2WU	NO	NO	0.40	18	*	-	100	-	-	300	20	-	80	*
2016CPT.01.05.20081.1	Bertie	7	SR 1234	FROM NC 305 TO HERTFORD CL	1	2	2WU	NO	NO	0.30	19	*	-	100	-	-	234	16	-	80	*
2016CPT.01.05.20081.1	Bertie	8	SR 1221	FROM NC 305 TO SR 1260	2	2	2WU	NO	NO	3.14	21	*	-	100	-	3,401	-	204	-	123	*
2016CPT.01.05.20081.1	Bertie	9	SR 1002	FROM NC 42 TO SR 1325	1	2	2WU	NO	NO	1.41	21	*	-	100	-	-	1,203	81	-	80	*
2016CPT.01.05.20081.1	Bertie	10	SR 1119	FROM NC 11 TO SR 1120	1	2	2WU	NO	NO	1.04	19	*	-	100	-	-	825	55	-	86	*
2016CPT.01.05.20461.1	Hertford	11	SR 1434	FROM SR 1002 TO NC 45	1	2	2WU	NO	YES	3.08	20	*	-	200	-	-	2,593	174	-	150	*
2016CPT.01.05.20461.1	Hertford	12	SR 1142	FROM SR 1160 TO SR 1141	3	2	2WU	NO	YES	2.77	18	*	25	150	1,049	-	2,344	203	30	150	*
2016CPT.01.05.20461.1	Hertford	13	SR 1183	FROM SR 1160 TO END	1	2	2WU	NO	NO	0.29	17	*	-	50	-	-	243	16	-	56	*
2016CPT.01.05.20461.1	Hertford	14	SR 1211	FROM NC 42 TO END	1	2	2WU	NO	NO	0.07	16	*	-	30	-	-	49	3	-	40	*
2016CPT.01.05.20461.1	Hertford	15	SR 1131	FROM NC 461 TO NC 11	1	2	2WU	NO	NO	0.41	20	*	-	50	-	-	336	23	-	80	*
2016CPT.01.05.20461.1	Hertford	16	SR 1108	FROM NC 561 TO NC 11	1	2	2WU	NO	NO	0.51	21	*	-	80	-	-	451	30	-	86	*
2016CPT.01.05.20461.1	Hertford	17	SR 1155	FROM NC 561 TO NORTHAMPTON CO.	3	2	2WU	NO	NO	2.20	20	*	-	300	-	-	1,866	125	-	150	*
1C.046070	Hertford	17	SR 1155	WIDEN FROM NC 561 TO NORTHAMPTON CO.	3	2	2WU	NO	NO	2.20	18	*	18	-	853	-	-	38	-	-	*
TOTAL										26.32		1	43	1,735	1,902	4,805	16,221	1,459	30	1,594	1

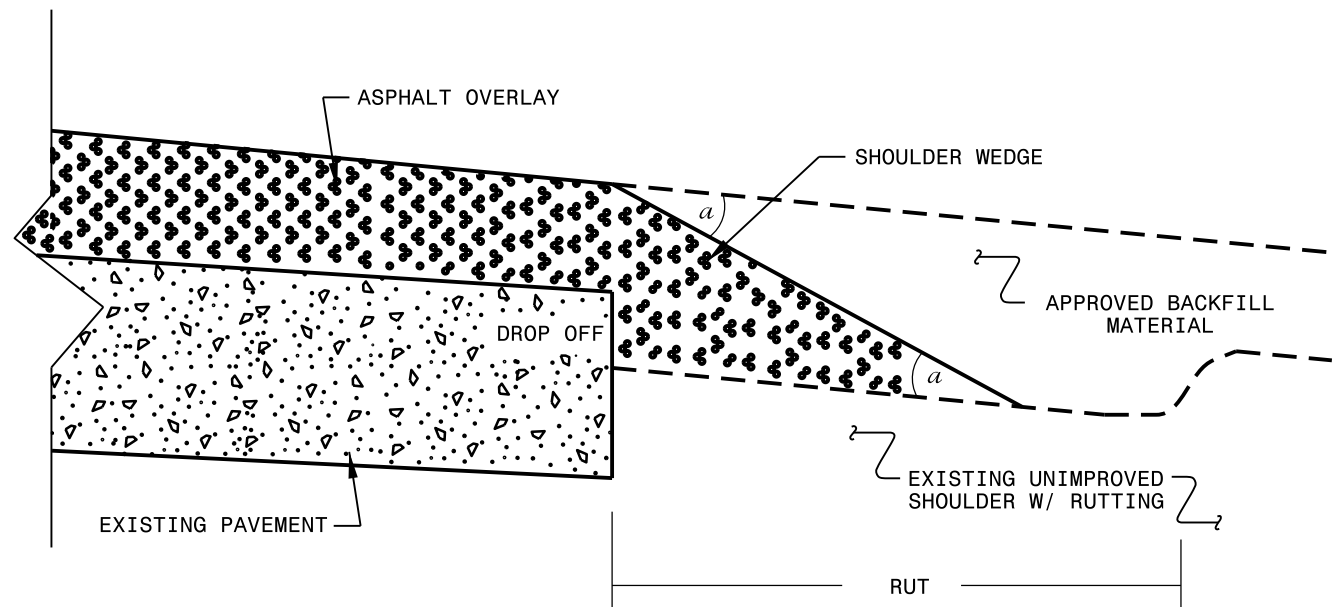
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



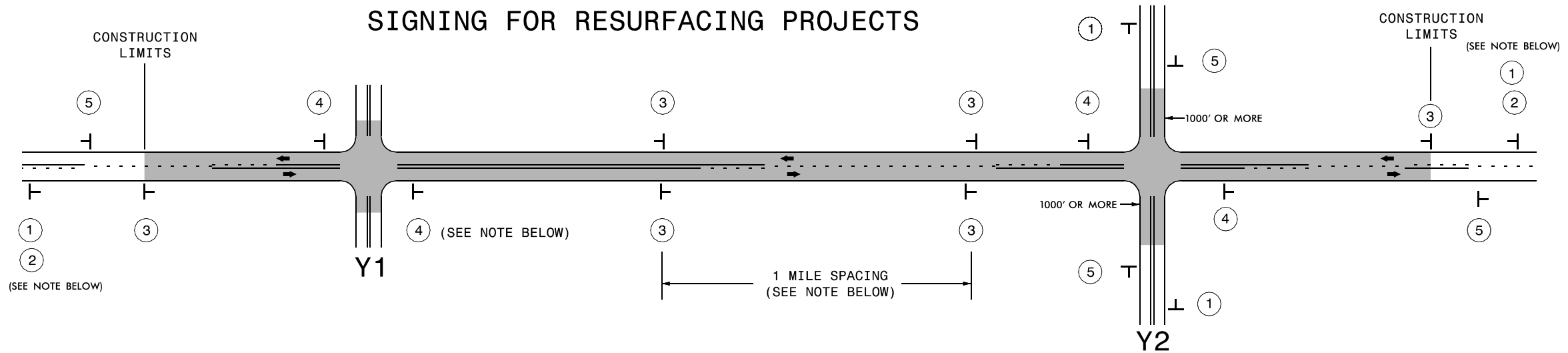
SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

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

SYSTEM: 11/15/11 10:58:58 AM
USER: T.SPELL

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	①	 <small>W20-1 48" X 48"</small>	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <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>
	②	 <small>W7-3aP 24" X 18"</small>	<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)</p>	
	③	 <small>SP 13107 48" X 48"</small>	<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.</p>	
	④	 <small>SP 13106 48" X 48"</small>	<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.</p>	
⑤	 <small>G20-2 A 48" X 24"</small>	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>		

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

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