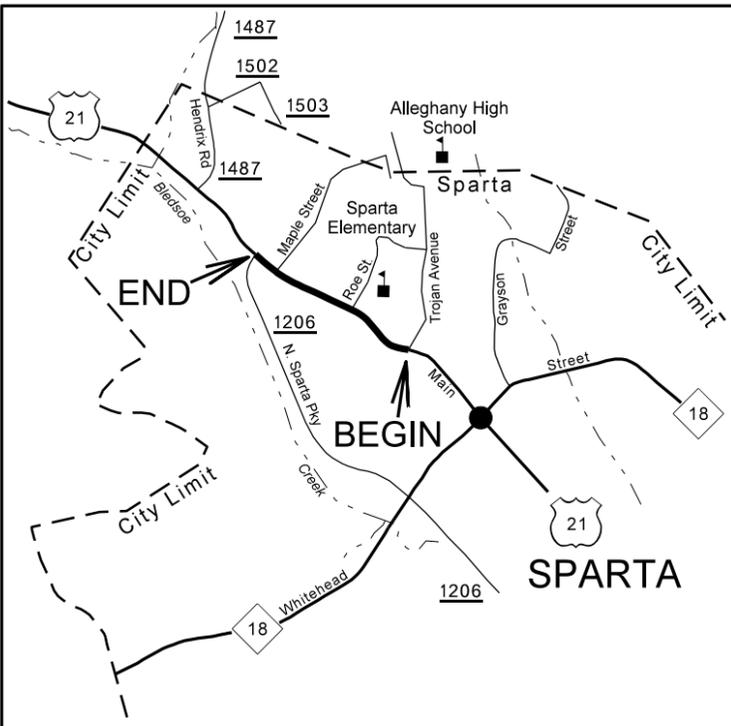


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

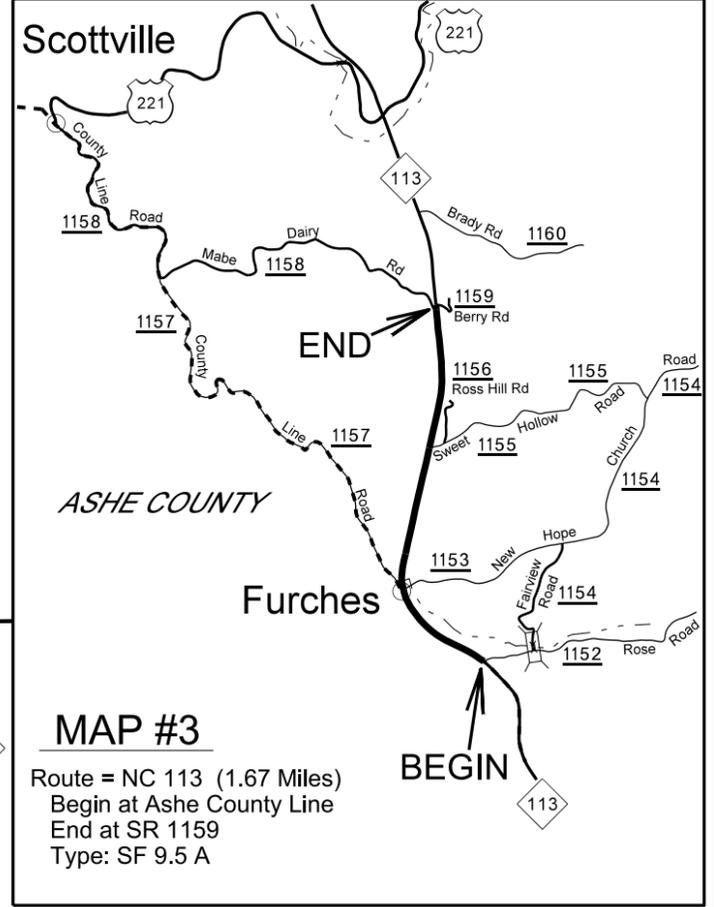
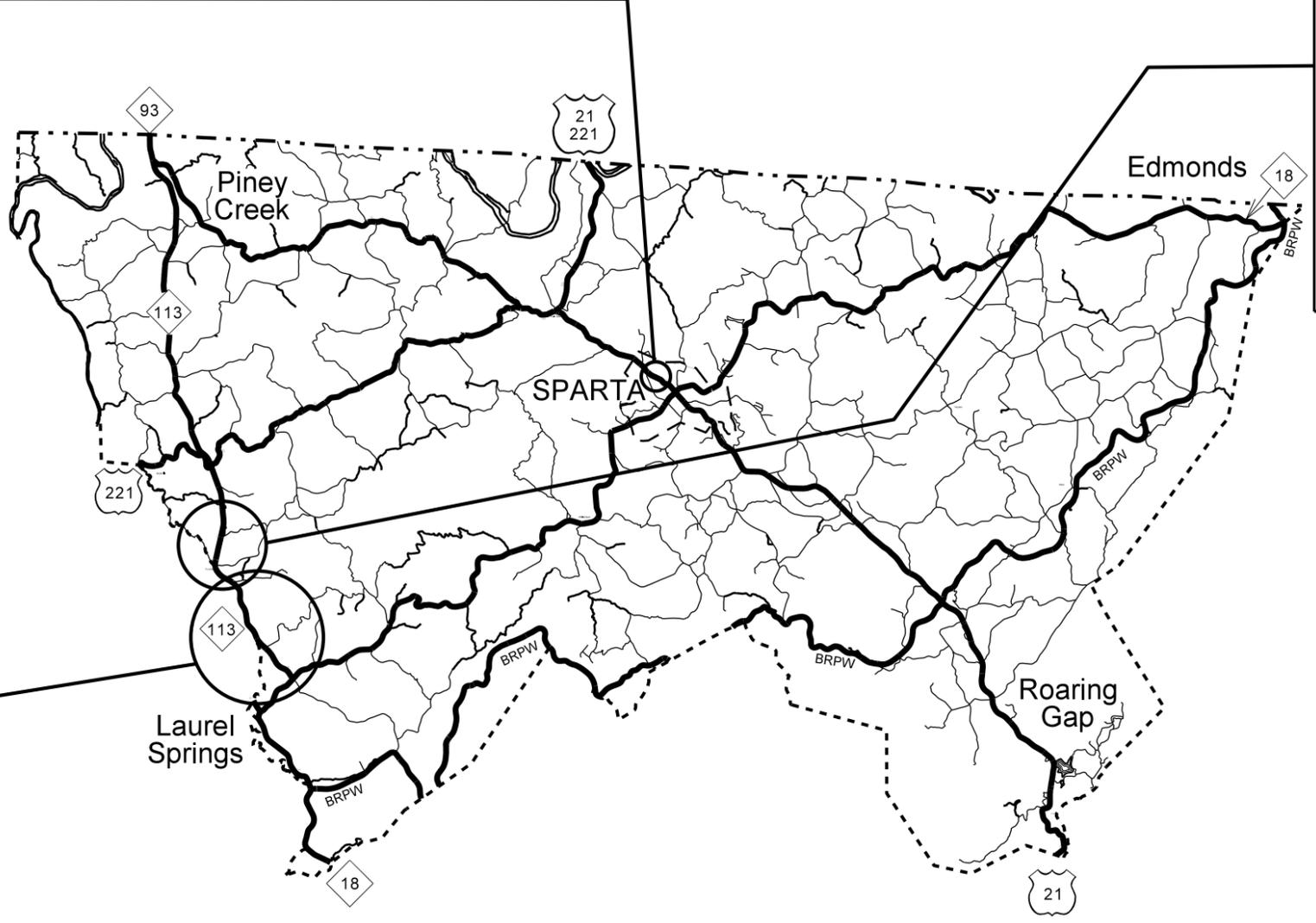
2016

ALLEGHANY COUNTY

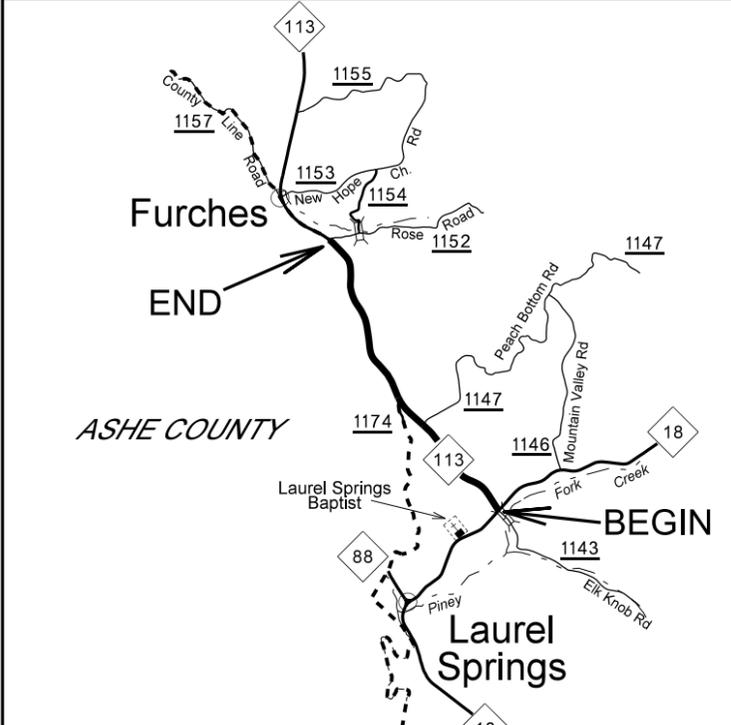
PRIMARY & SECONDARY ASPHALT RESURFACING



MAP #1
Route = US 21 (0.45 Miles)
Begin at TROJAN AVENUE
End at SR 1206
Type: S 9.5 B (Mill and Replace 1½")



MAP #3
Route = NC 113 (1.67 Miles)
Begin at Ashe County Line
End at SR 1159
Type: SF 9.5 A



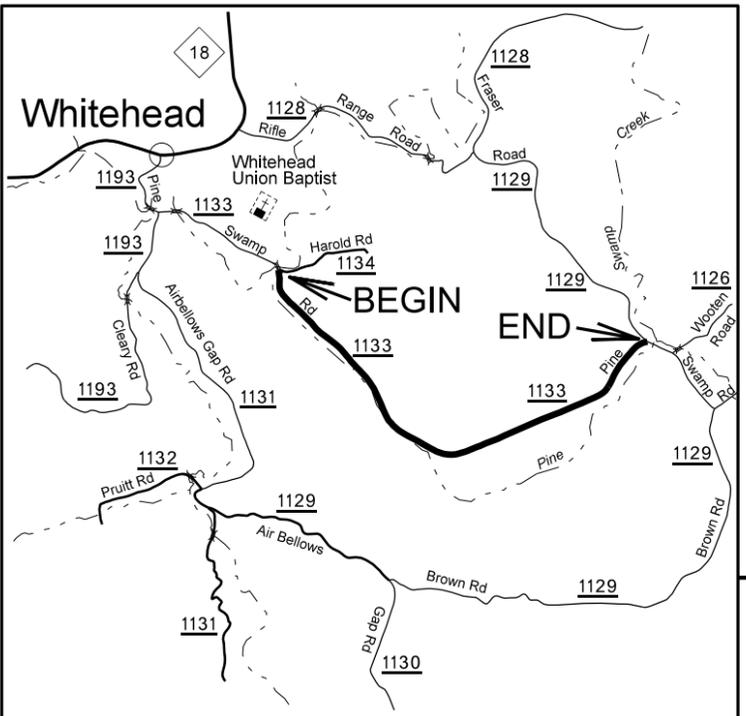
MAP #2
Route = NC 113 (2.31 Miles)
Begin at NC 18
End at Ashe County Line
Type: SF 9.5 A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

2016

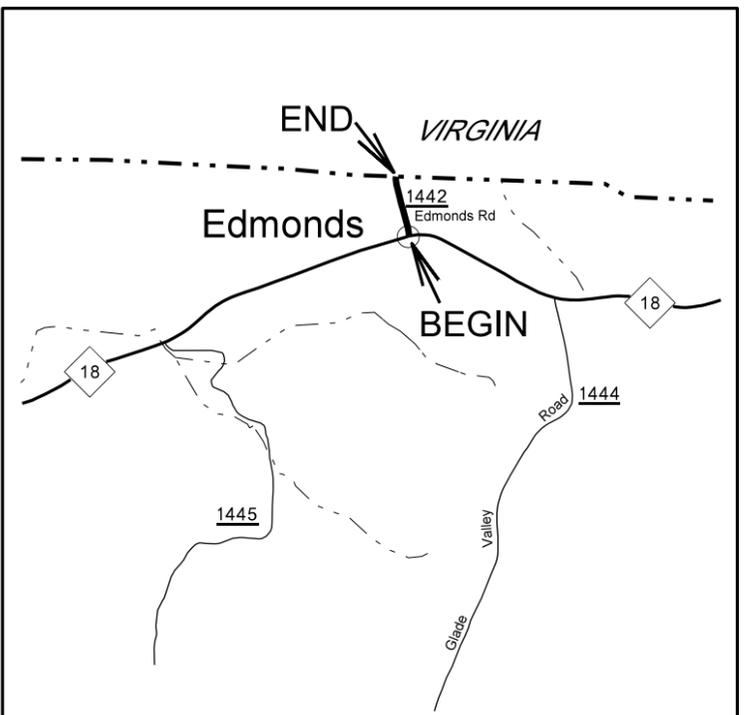
ALLEGHANY COUNTY

PRIMARY & SECONDARY ASPHALT RESURFACING



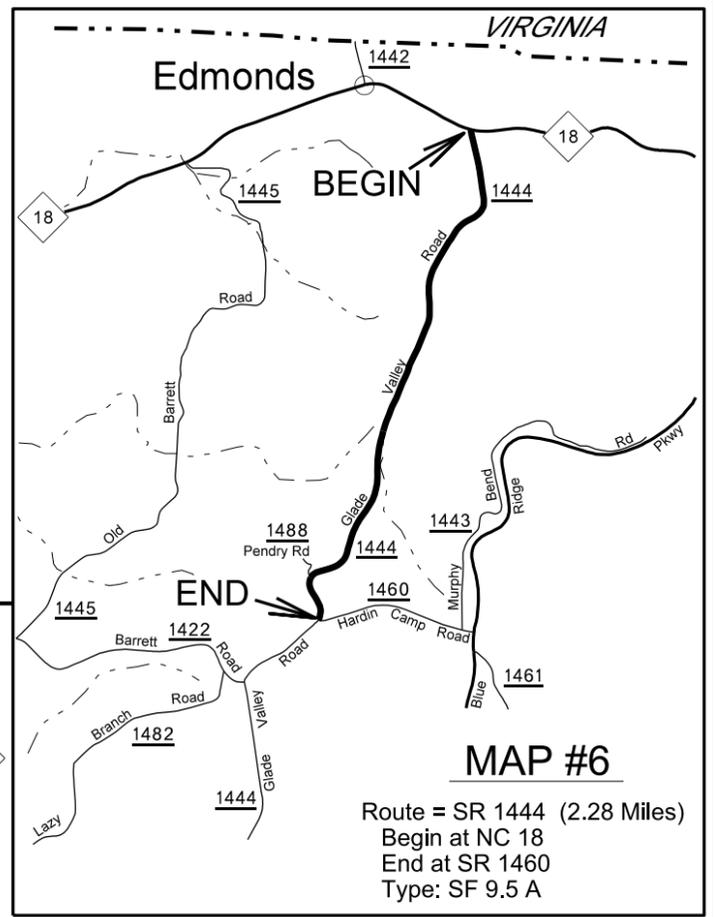
MAP #4

Route = SR 1133 (2.05 Miles)
Begin at SR 1134
End at SR 1129
Type: SF 9.5 A



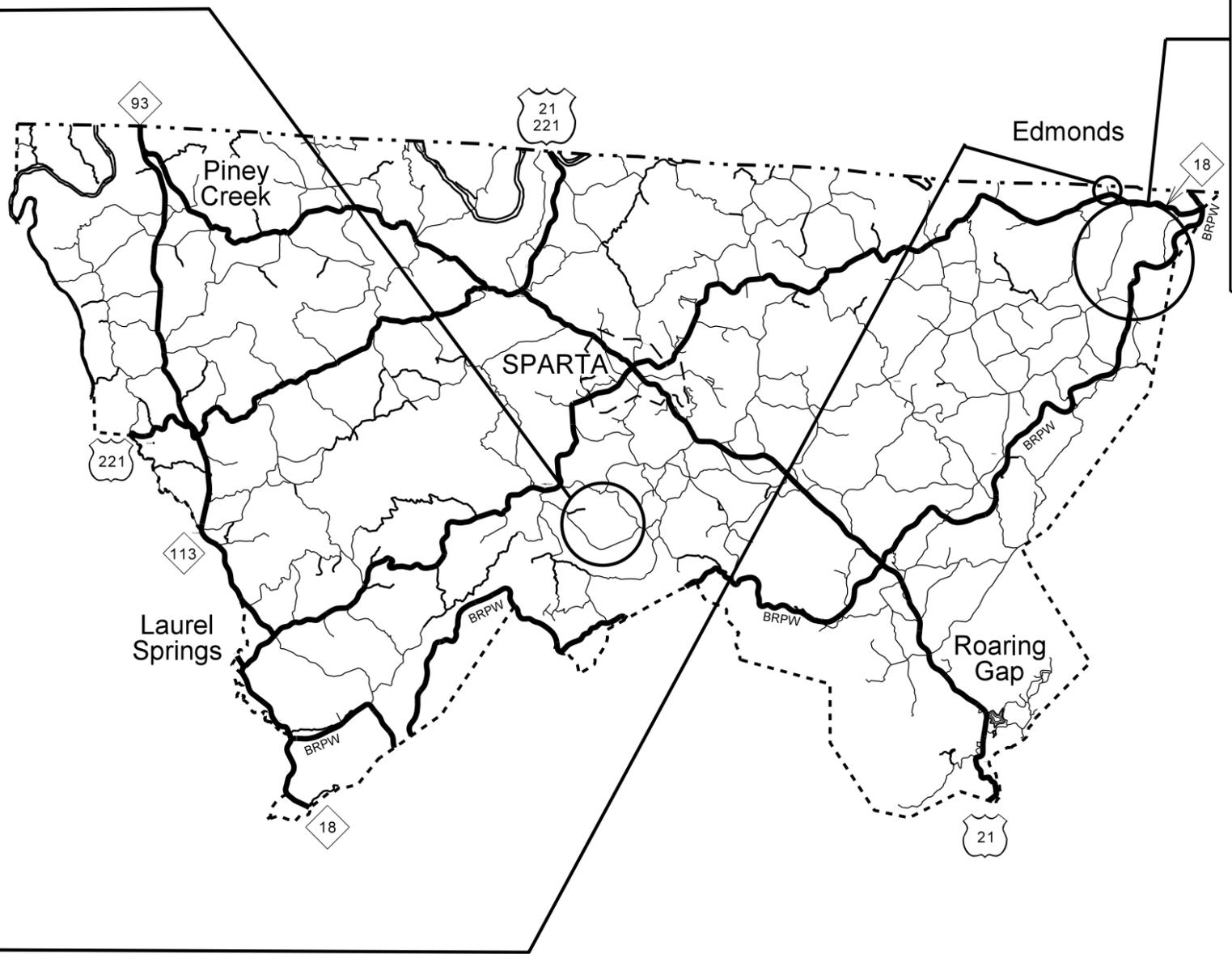
MAP #5

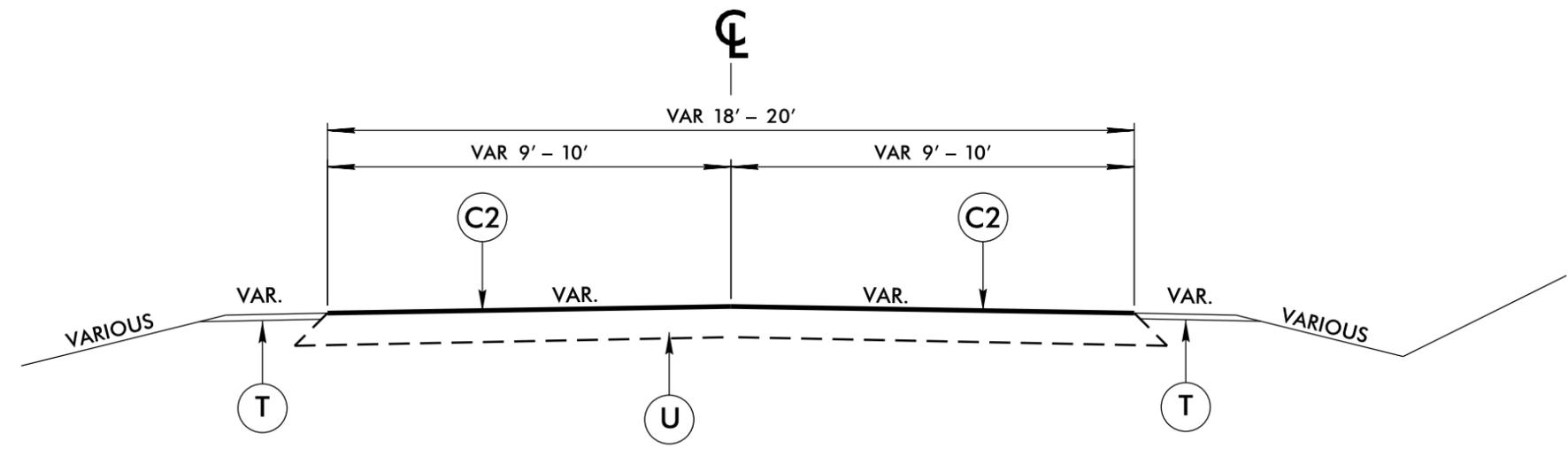
Route = SR 1442 (0.18 Miles)
Begin at NC 18
End at Virginia Line
Type: SF 9.5 A



MAP #6

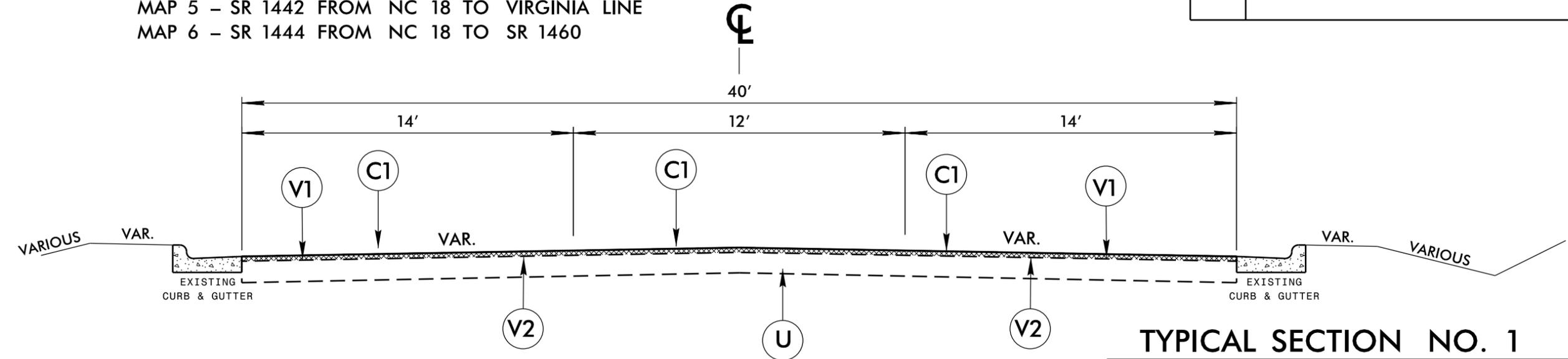
Route = SR 1444 (2.28 Miles)
Begin at NC 18
End at SR 1460
Type: SF 9.5 A



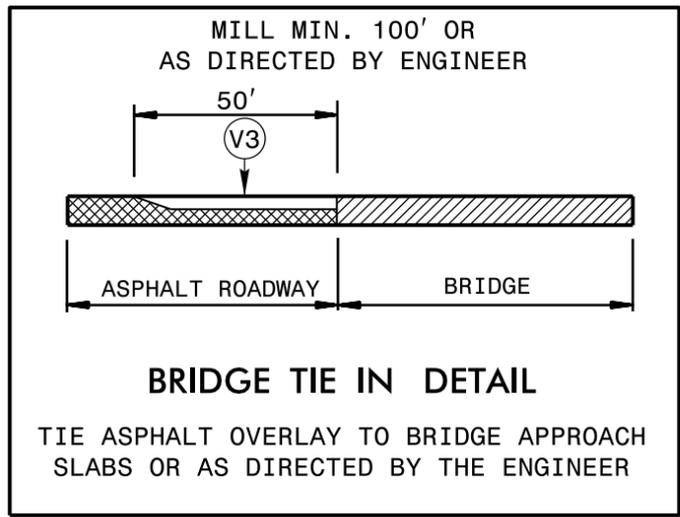
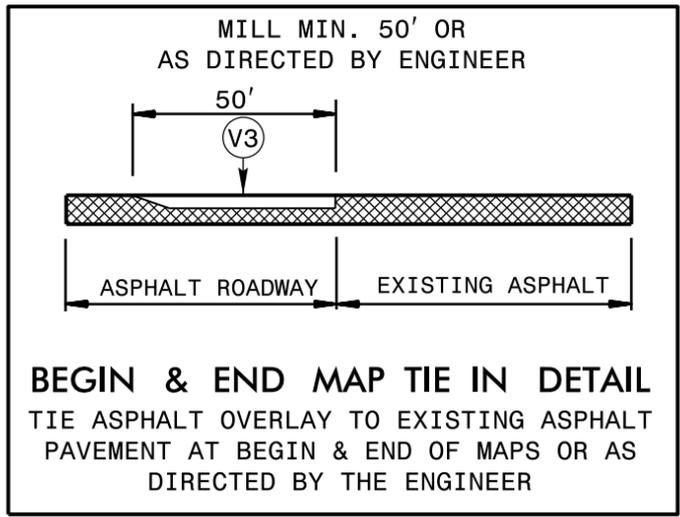


TYPICAL SECTION NO. 2
 MAP 2 - NC 113 FROM NC 18 TO ASHE COUNTY LINE
 MAP 3 - NC 113 FROM ASHE COUNTY LINE TO SR 1159
 MAP 4 - SR 1133 FROM SR 1134 TO SR 1129
 MAP 5 - SR 1442 FROM NC 18 TO VIRGINIA LINE
 MAP 6 - SR 1444 FROM NC 18 TO SR 1460

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 0" - 3"
V3	INCIDENTAL MILLING



TYPICAL SECTION NO. 1
 MAP 1 - US 21 FROM TROJAN AVE TO SR 1206
 MILL 0" - 3" FROM TROJAN AVE TO CHARLES STREET
 MILL 1½" FROM CHARLES STREET TO SR 1206



**ALLEGHANY COUNTY
 PRIMARY AND SECONDARY
 RESURFACING**

DIVISION II

REVISIONS	INIT.	DATE

SCALE: N/A DATE: 03/2015

**N.C. DEPARTMENT of TRANSPORTATION
 DIVISION of HIGHWAYS
 DIVISION ELEVEN**

PREPARED BY: S.B. DARNELL
 REVIEWED BY: J.D. WOOD

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.10031.23, 11CR.20031.23		

SUMMARY OF QUANTITIES

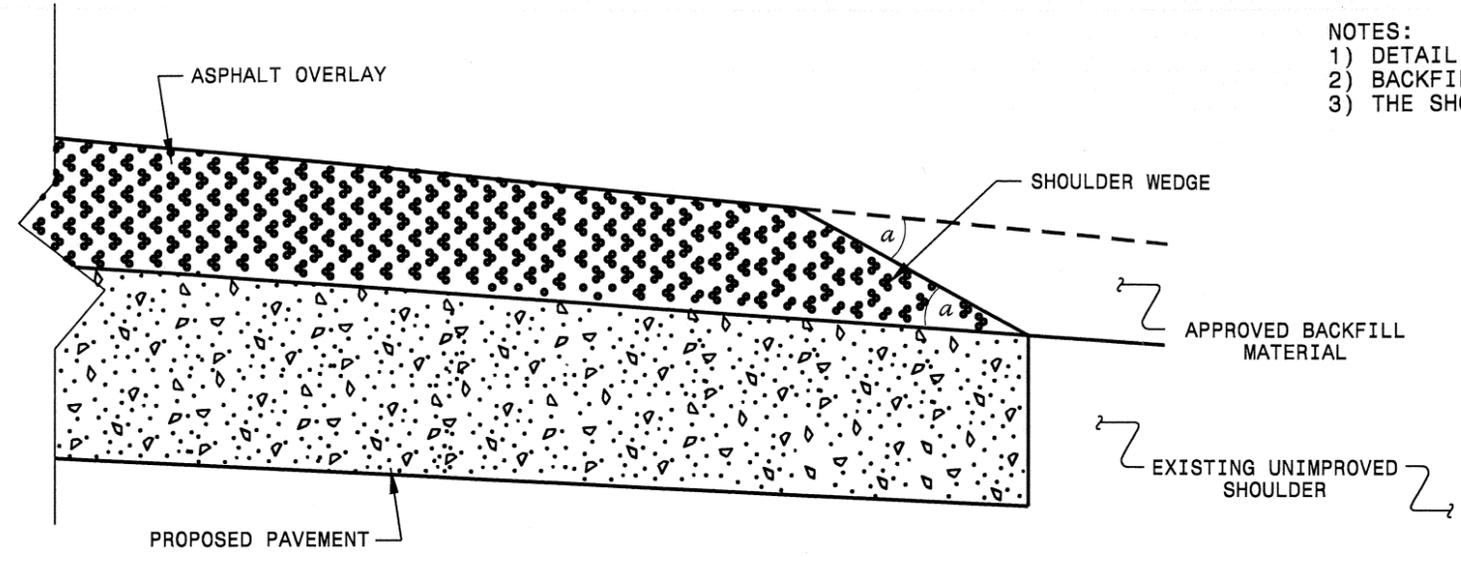
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARMMX ASPHALT REQUIRED	LENGTH M	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SM	1½" MILLING SY	0" TO 3" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MX TONS	PATCHING EXISTING PAVEMENT TONS	ADI. OF DROP INLET EA	ADI. OF MANHOLES EA	ADI. OF METER OR VALVE BOX EA	SEED & MULCHING AC	INDUCTIVE LOOP LF	LEAD-IN CABLE LF
11CR.10031.23	Alleghany	1	US 21	FROM TROJAN AVE TO SR 1206	1	3	2WU	NO	NO	0.45	40				4,450	6,110	150	900		54	100	5	10	3		160	40
11CR.10031.23	Alleghany	2	NC 113	FROM NC 18 TO ASHE COUNTY LINE	2	2	2WU	NO	NO	2.31	19	462	50	4.62			422		1,930	129	250				1.20		
11CR.10031.23	Alleghany	3	NC 113	FROM ASHE COUNTY LINE TO SR 1159	2	2	2WU	NO	NO	1.67	19	334	50	3.34			422		1,430	96	250				0.80		
TOTAL FOR PROJ NO. 11CR.10031.23										4.43		796	100	7.96	4,450	6,110	994	900	3,360	279	600	5	10	3	2.00	160	40
11CR.20031.23	Alleghany	4	SR 1133	FROM SR 1134 TO SR 1129	2	2	2WU	NO	NO	2.05	20	410	50	4.10			444		1,815	122	250				1.00		
11CR.20031.23	Alleghany	5	SR 1442	FROM NC 18 TO VIRGINIA LINE	2	2	2WU	NO	NO	0.18	18	36	25	0.36			400		150	10					0.10		
11CR.20031.23	Alleghany	6	SR 1444	FROM NC 18 TO SR 1460	2	2	2WU	NO	NO	2.28	20	456	50	4.56			444		2,000	134					2.00		
TOTAL FOR PROJ NO. 11CR.20031.23										4.51		902	125	9.02			1,288		3,965	266	250				3.10		
GRANDTOTAL										8.94		1,698	225	16.98	4,450	6,110	2,282	900	7,325	545	850	5	10	3	5.10	160	40

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.10031.23, 11CR.20031.23		

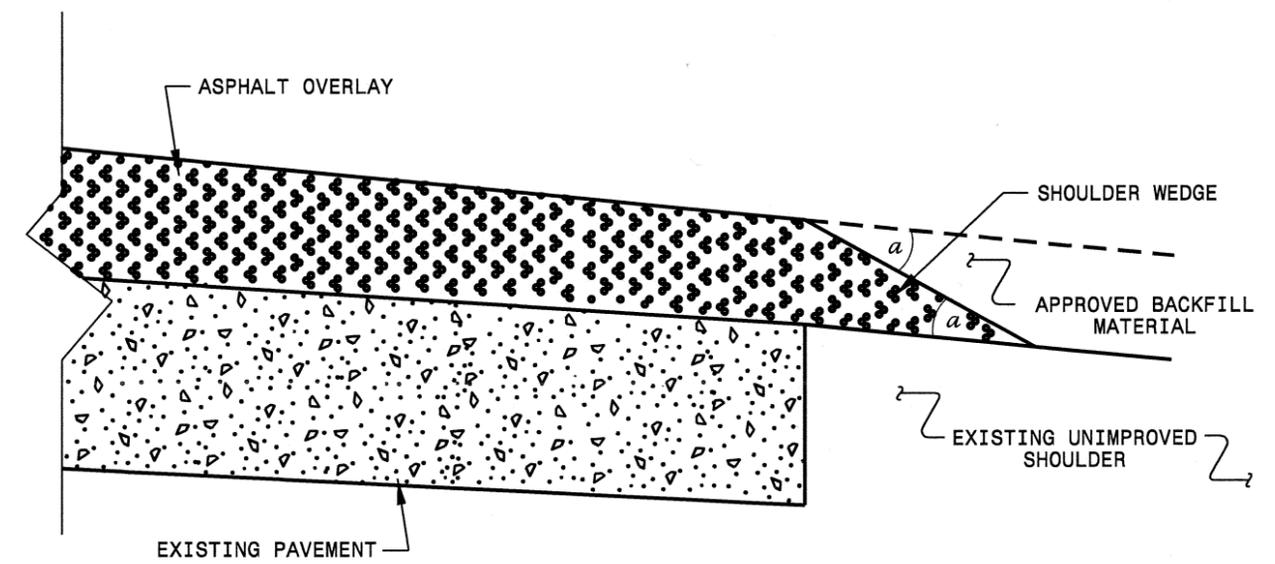
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E		4835000000-E	4840000000-N	4845000000-N	4905000000-N	
										WORK ZONE ADVANCE/GENERAL WARNING SIGNS	TEMPORARY TRAFFIC CONTROL	4" WHITE PAINT	4" YELLOW PAINT	24" WHITE PAINT	PAINT M/G SCHOOL	PAINT LT ARROW	SNOW PLOWABLE MARKERS	
										SF	LS	LF	LF	LF	EA	EA	EA	
11CR.10031.23	Alleghany	1	US 21	FROM TROJAN AVE TO SR 1206	1	3	2WU	0.45	40	84	1	800	9,504	156	24	26	60	
11CR.10031.23	Alleghany	2	NC 113	FROM NC 18 TO ASHE COUNTY LINE	2	2	2WU	2.31	19	72	*	48,787	48,787				153	
11CR.10031.23	Alleghany	3	NC 113	FROM ASHE COUNTY LINE TO SR 1159	2	2	2WU	1.67	19	72	*	35,270	35,270				110	
TOTAL FOR PROJ NO. 11CR.10031.23								4.43		228		84,857	93,561	156	24	26	323	
												178,418						
11CR.20031.23	Alleghany	4	SR 1133	FROM SR 1134 TO SR 1129	2	2	2WU	2.05	20	96	*	43,296	43,296				136	
11CR.20031.23	Alleghany	5	SR 1442	FROM NC 18 TO VIRGINIA LINE	2	2	2WU	0.18	18	72	*	3,802	3,802				12	
11CR.20031.23	Alleghany	6	SR 1444	FROM NC 18 TO SR 1460	2	2	2WU	2.28	20	108	*	48,154	48,154				151	
TOTAL FOR PROJ NO. 11CR.20031.23								4.51		276		95,252	95,252				299	
												190,504						
GRANDTOTAL								8.94		504	1	180,109	188,813	156	24	26	622	
												368,922						

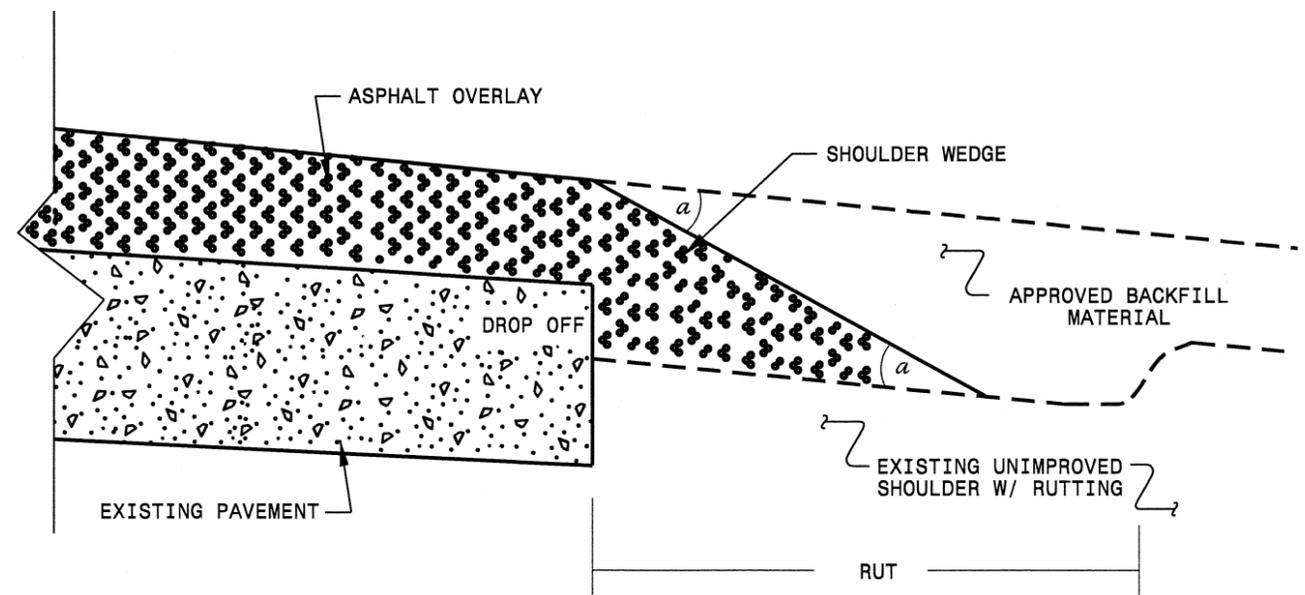
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

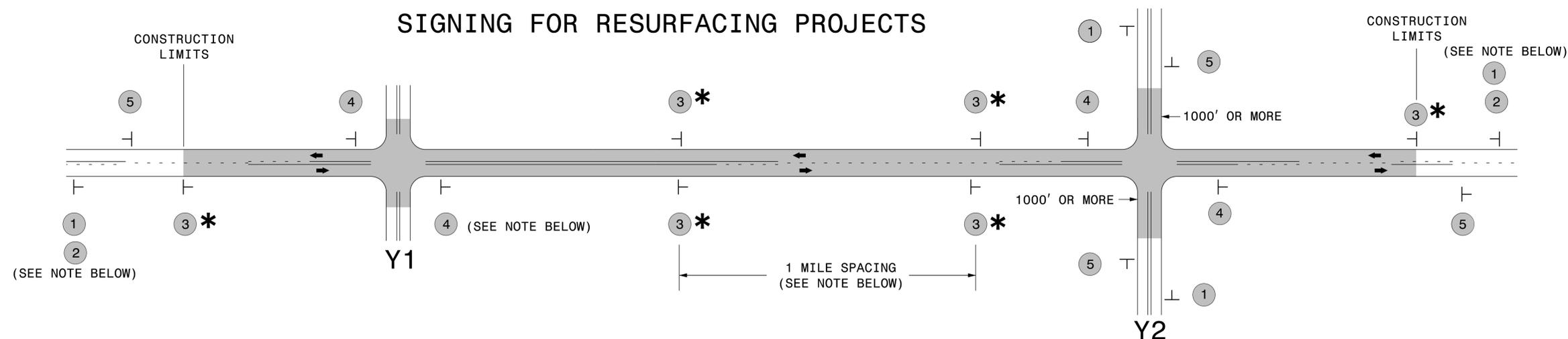
CONTRACT STANDARDS
 AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

**SHOULDER WEDGE
 DETAILS**

ORIGINAL BY: T.SPELL DATE: 7-19-11
 MODIFIED BY: DATE: 10/18/12
 CHECKED BY: DATE:
 FILE SPEC.: s:\user\details\stand\shoulderwedgedetail.dgn

SYSTEMS CONSULTANTS
 CONSULTANTS

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	 W20-1 48" X 48"	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"> 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;"> <div style="text-align: center;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 W7-3aP 24" X 18"	#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 *	 SP 13107 48" X 48"	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	 SP 13106 48" X 48"	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	 G20-2 A 48" X 24"	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