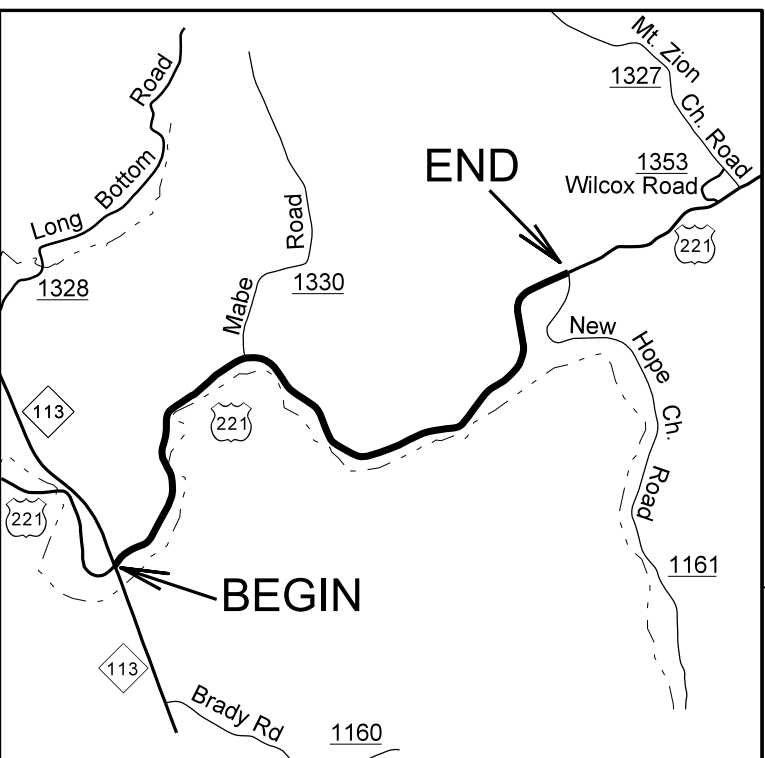
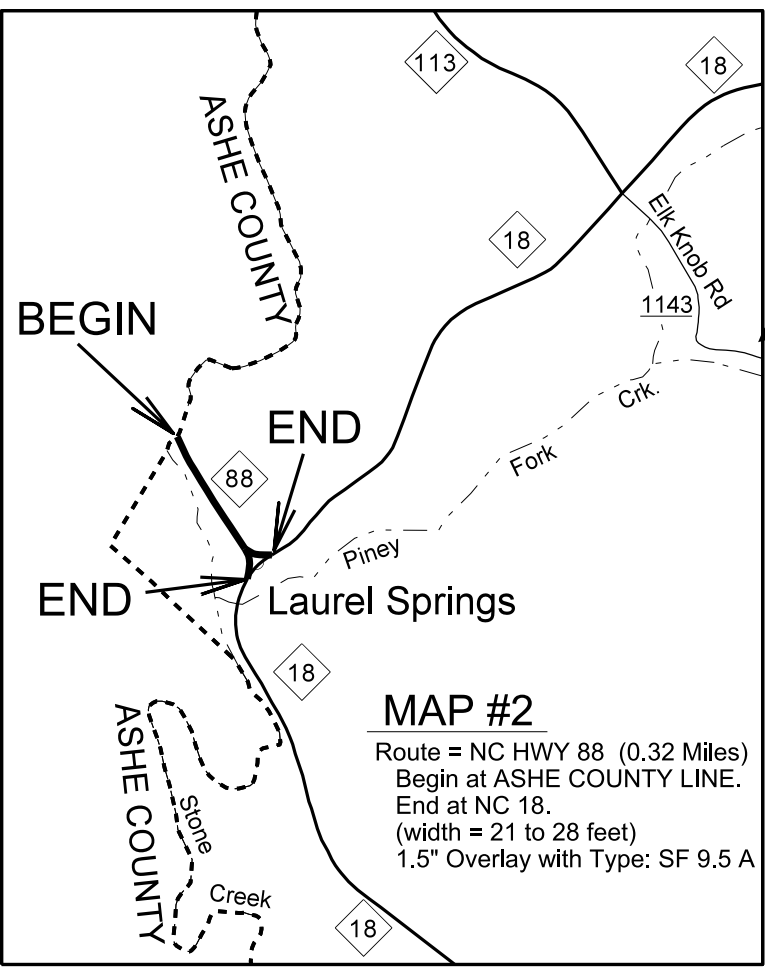


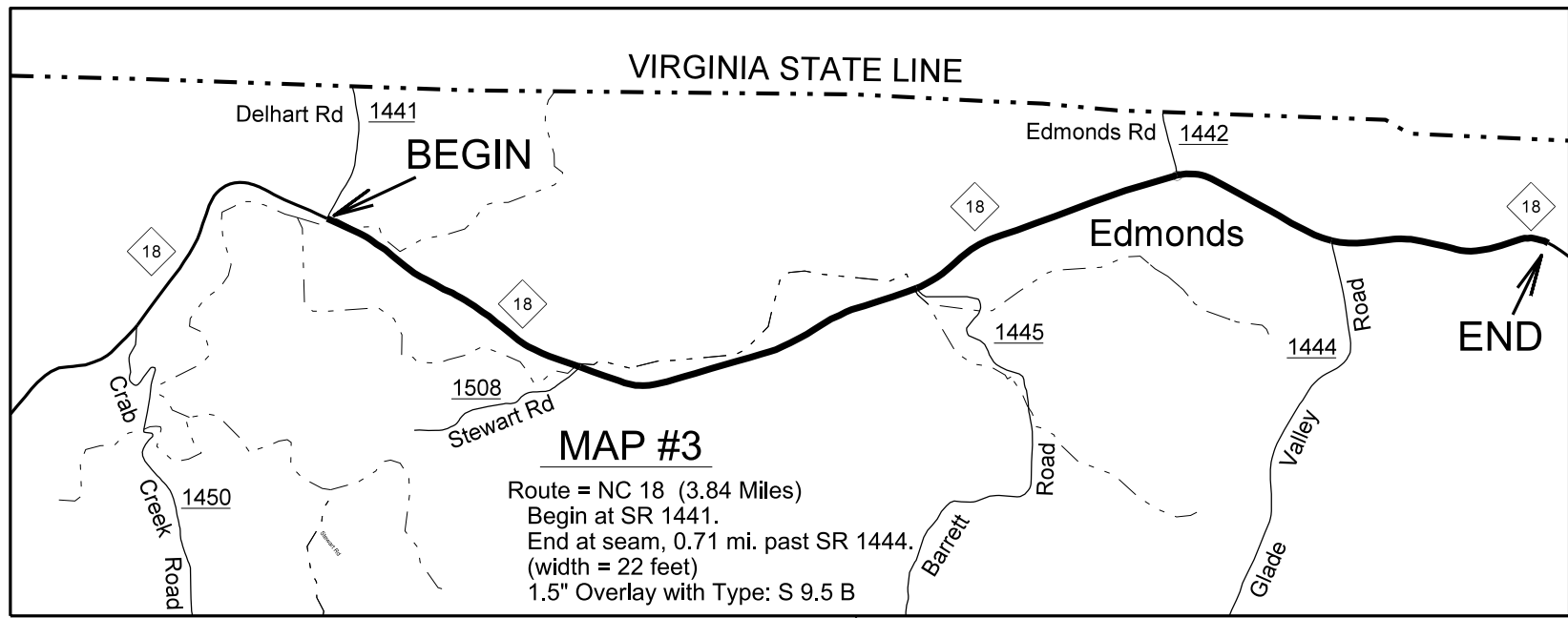
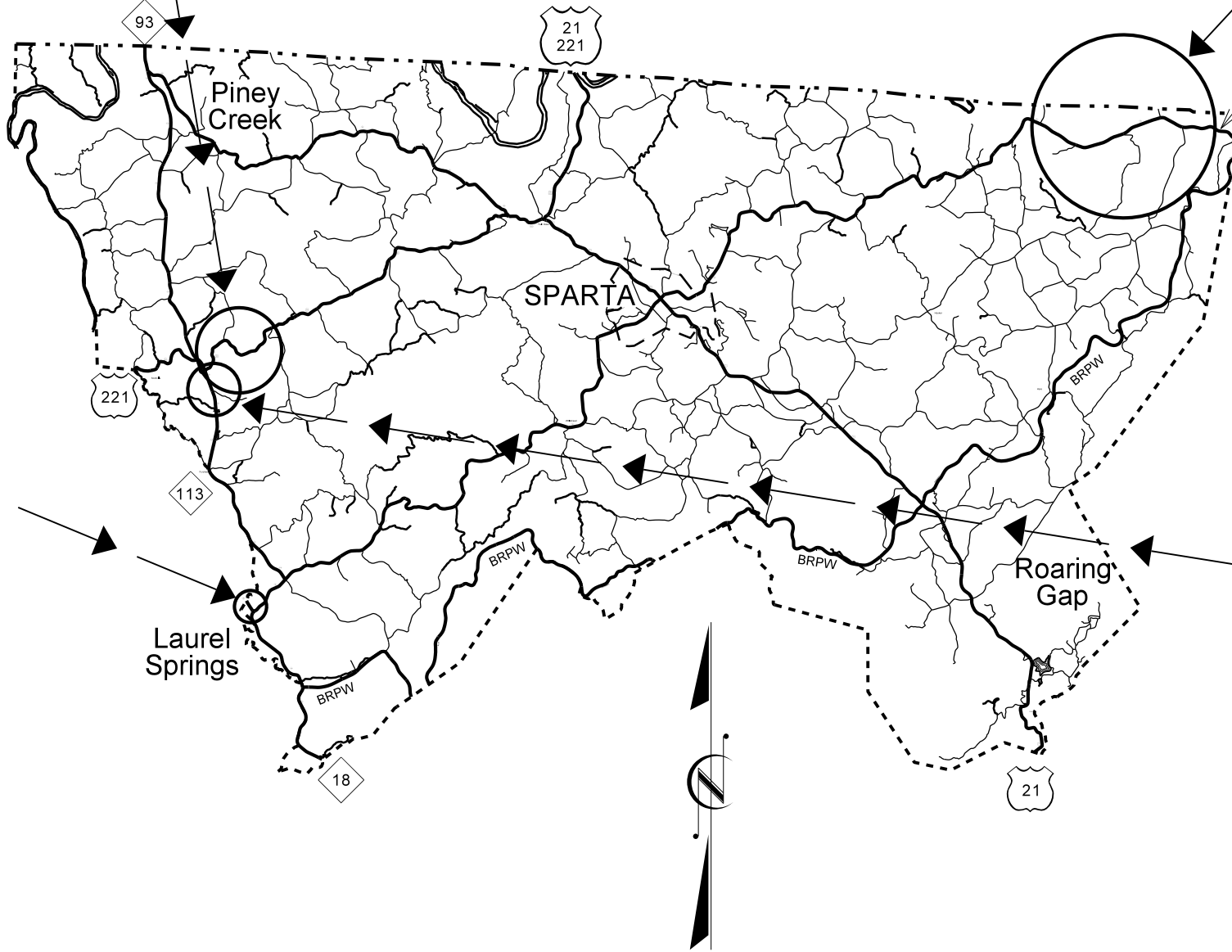


MAP #1
 Route = US HWY 221 (2.19 Miles)
 Begin at NC 113.
 End at SR 1161.
 (width = 23 feet)
 1.5" Overlay with Type: SF 9.5 A

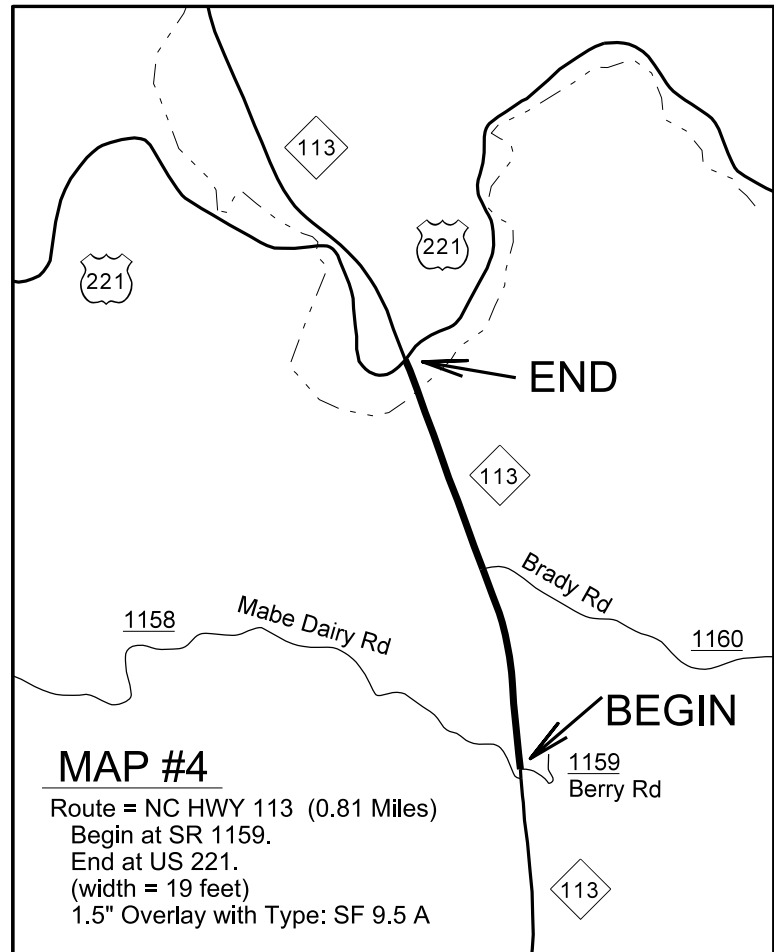


MAP #2
 Route = NC HWY 88 (0.32 Miles)
 Begin at ASHE COUNTY LINE.
 End at NC 18.
 (width = 21 to 28 feet)
 1.5" Overlay with Type: SF 9.5 A

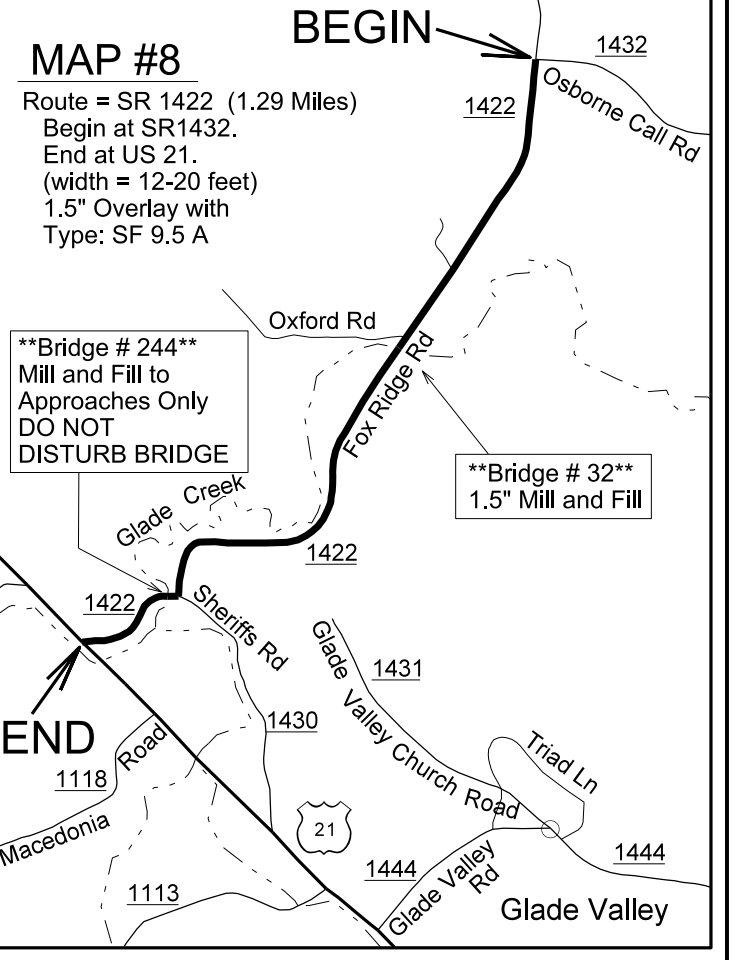
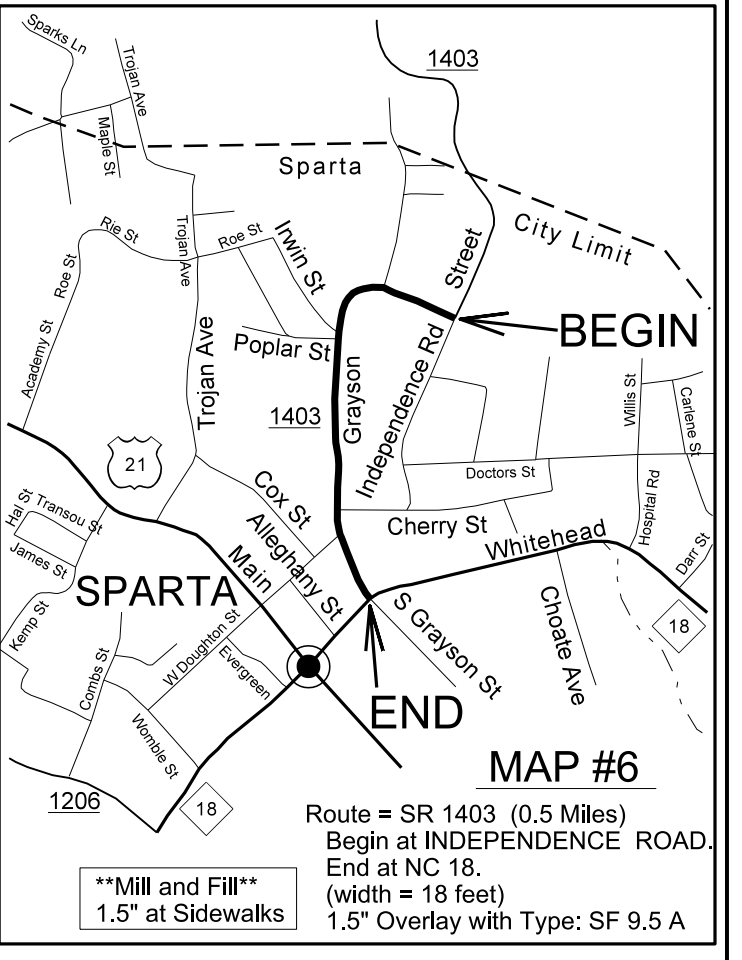
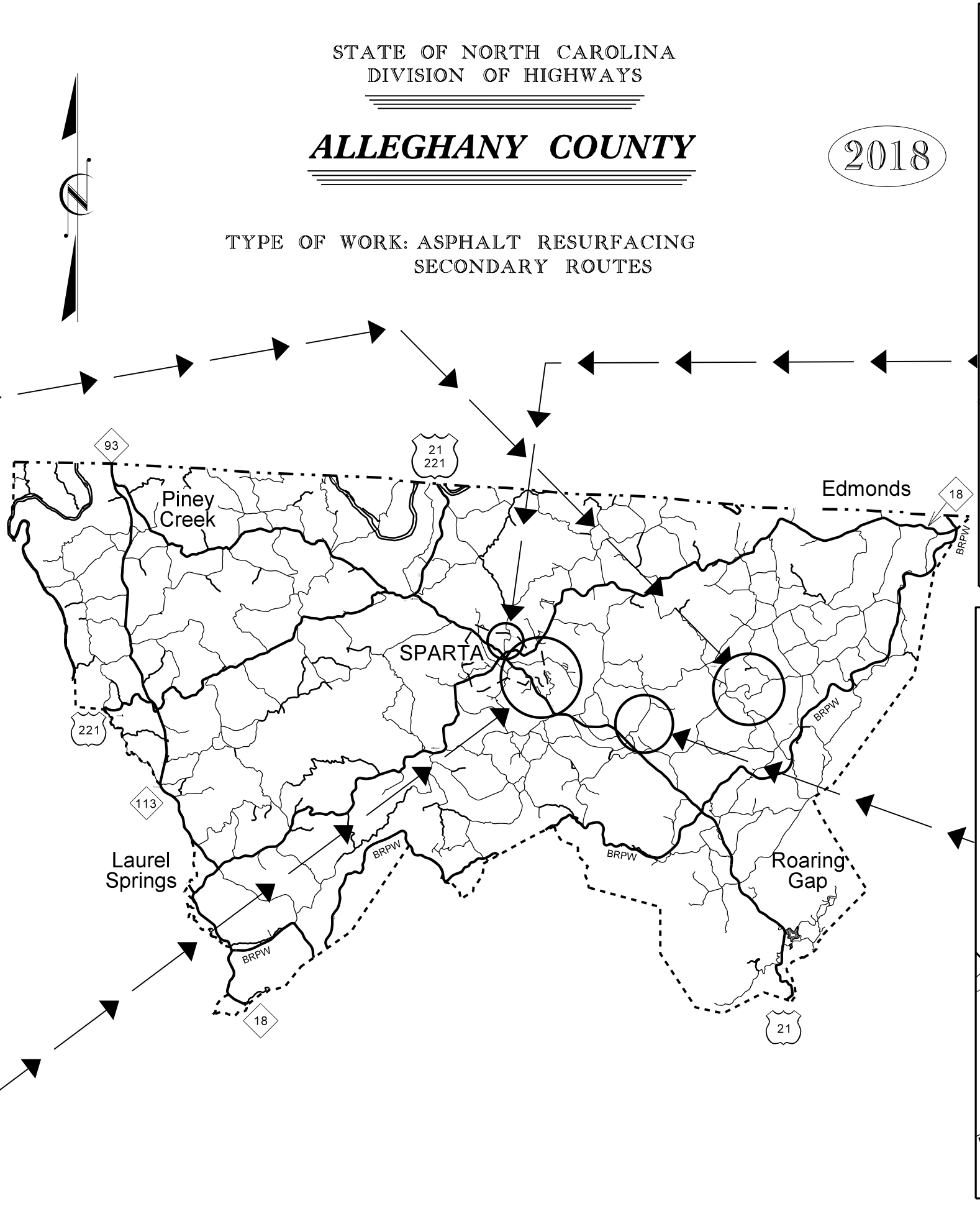
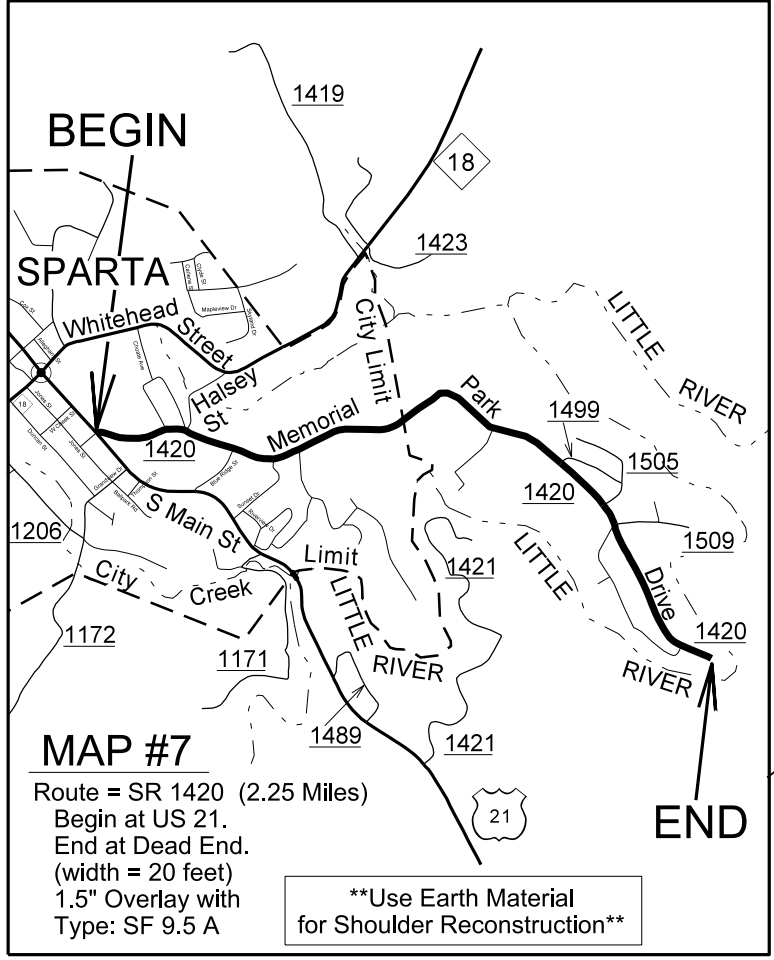
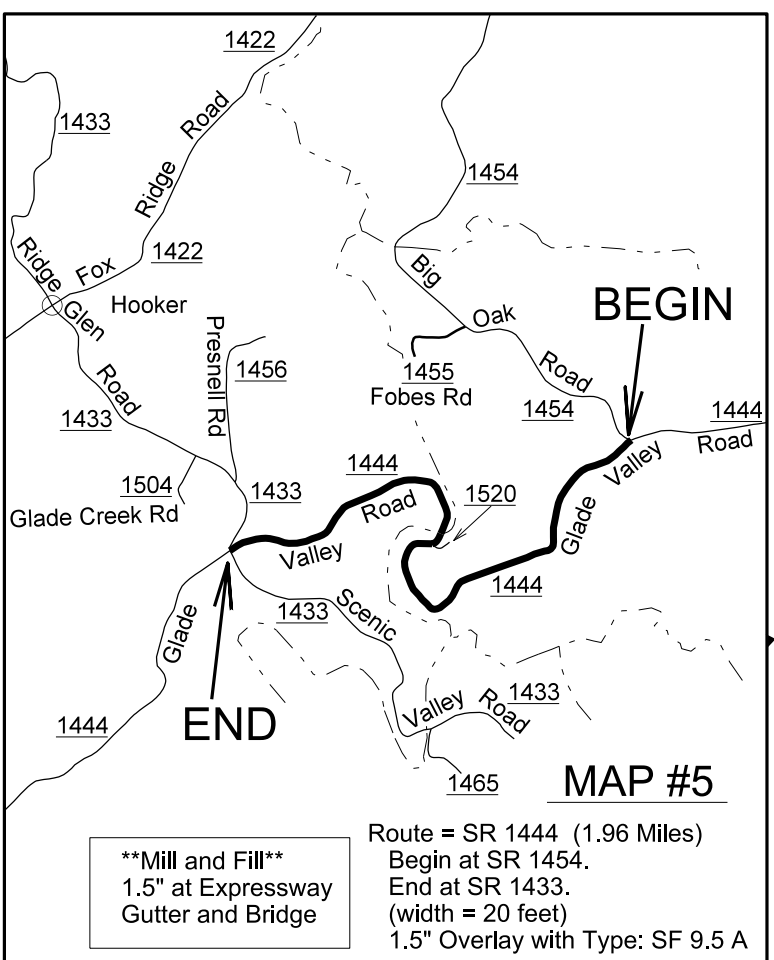
2018
 STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
ALLEGHANY COUNTY
 TYPE OF WORK:
 ASPHALT RESURFACING
 PRIMARY ROUTES



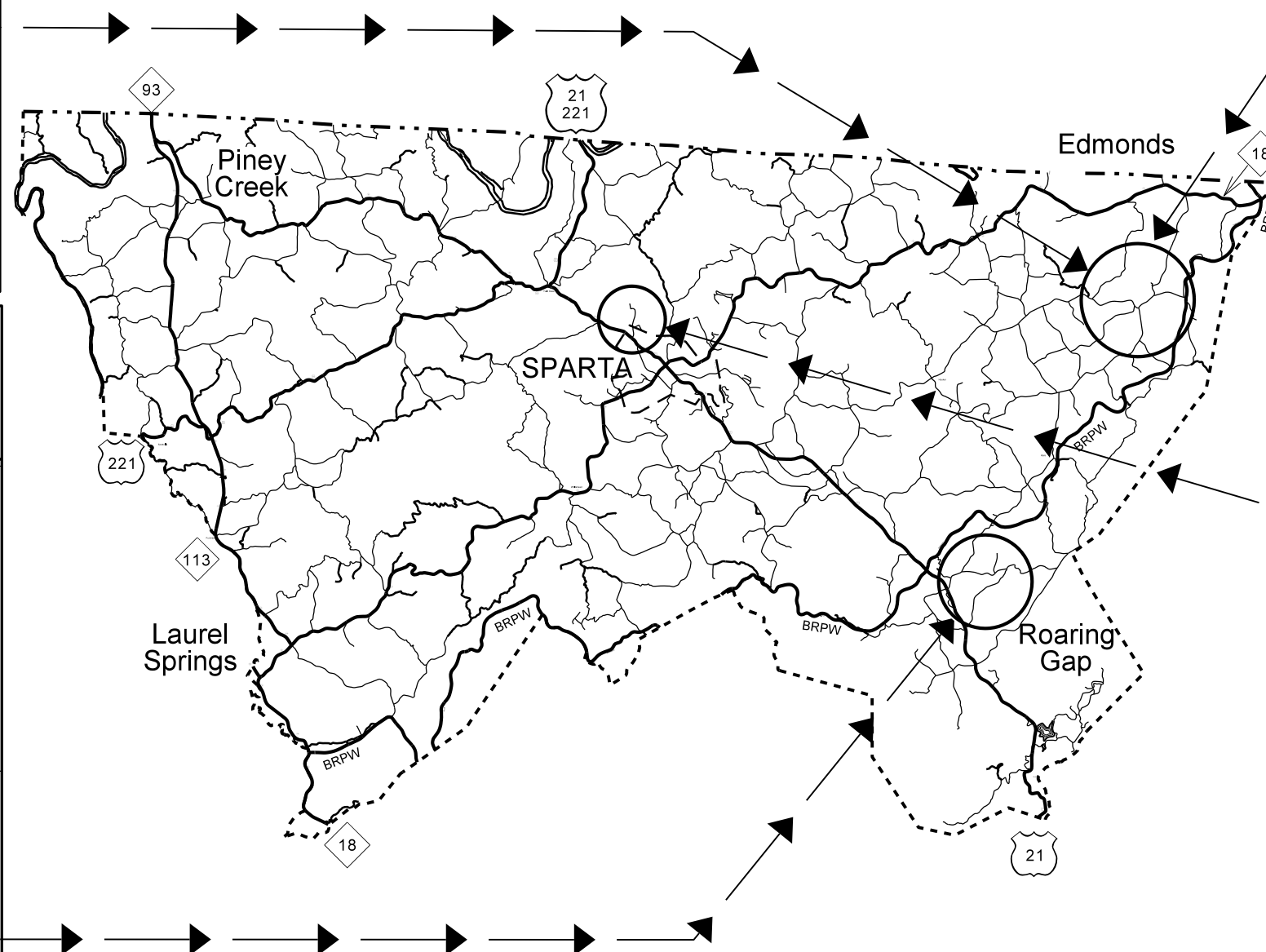
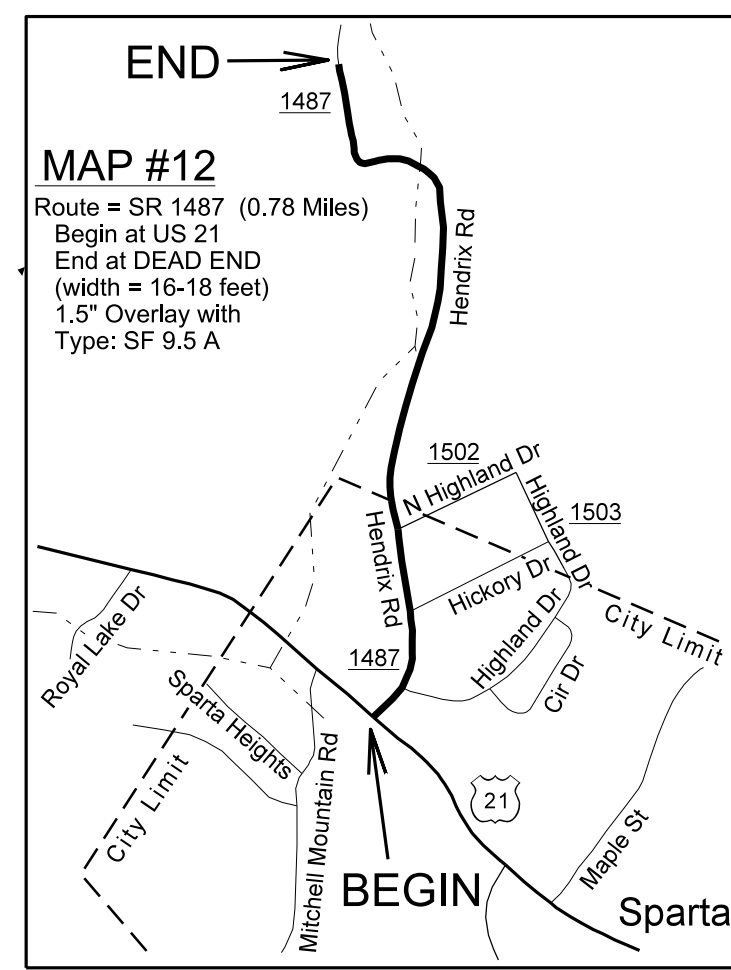
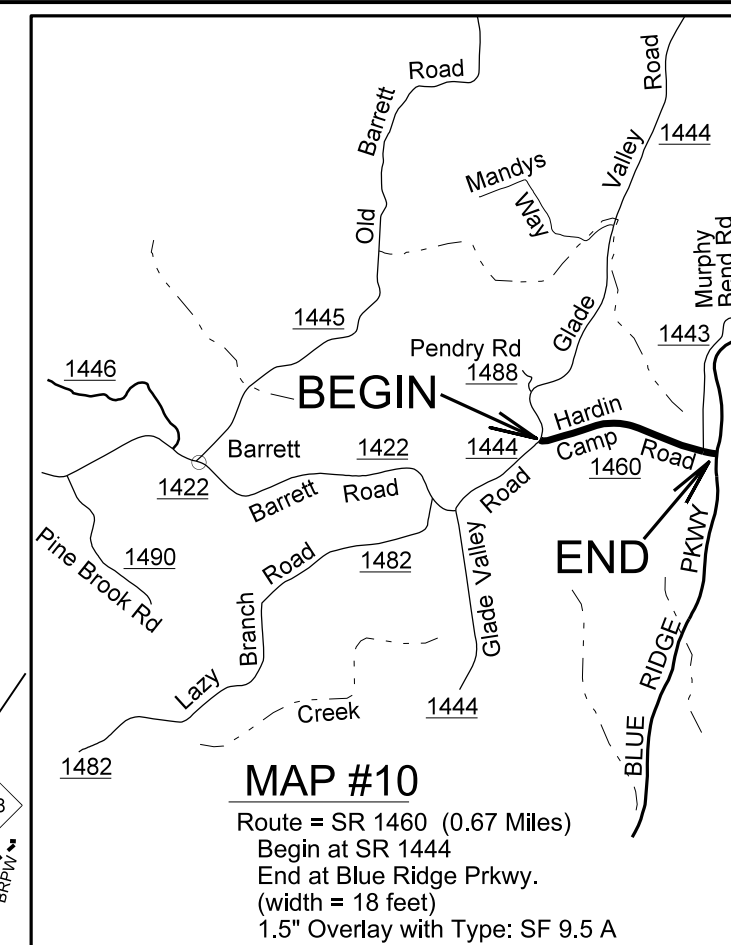
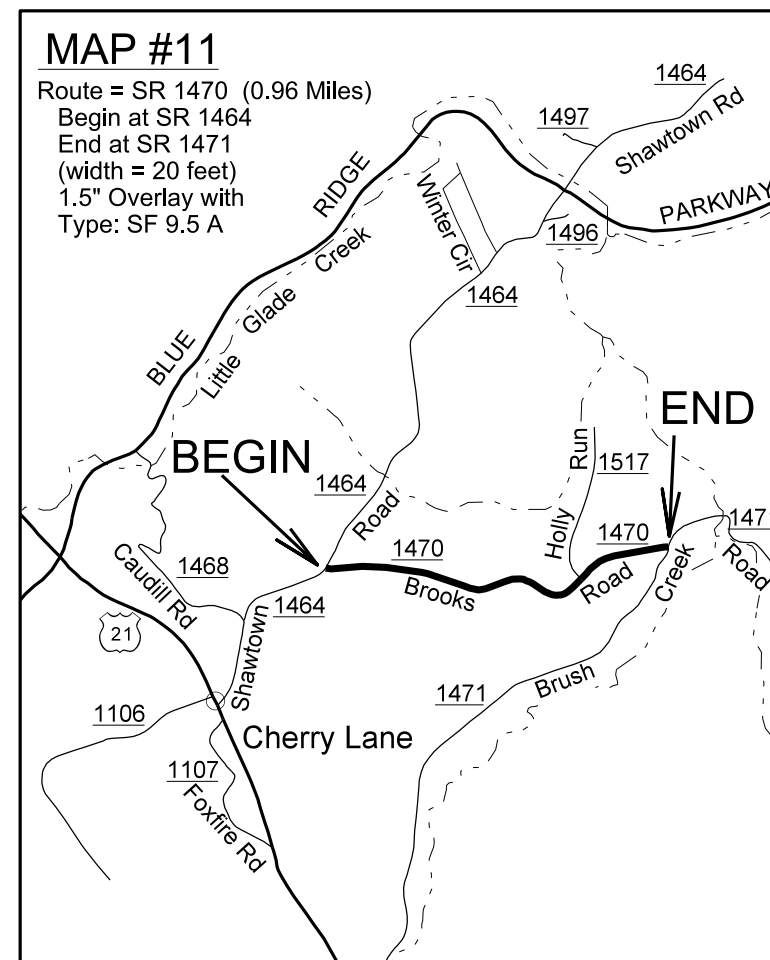
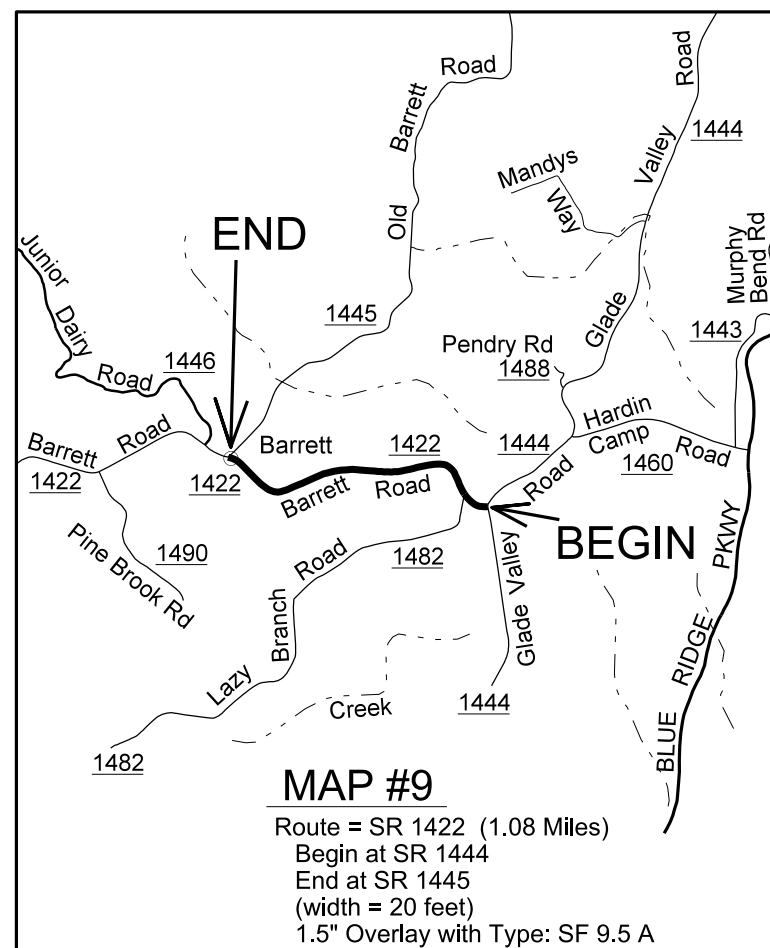
MAP #3
 Route = NC 18 (3.84 Miles)
 Begin at SR 1441.
 End at seam, 0.71 mi. past SR 1444.
 (width = 22 feet)
 1.5" Overlay with Type: S 9.5 B



MAP #4
 Route = NC HWY 113 (0.81 Miles)
 Begin at SR 1159.
 End at US 221.
 (width = 19 feet)
 1.5" Overlay with Type: SF 9.5 A



TYPE OF WORK: ASPHALT RESURFACING
SECONDARY ROUTES



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALLEGHANY COUNTY

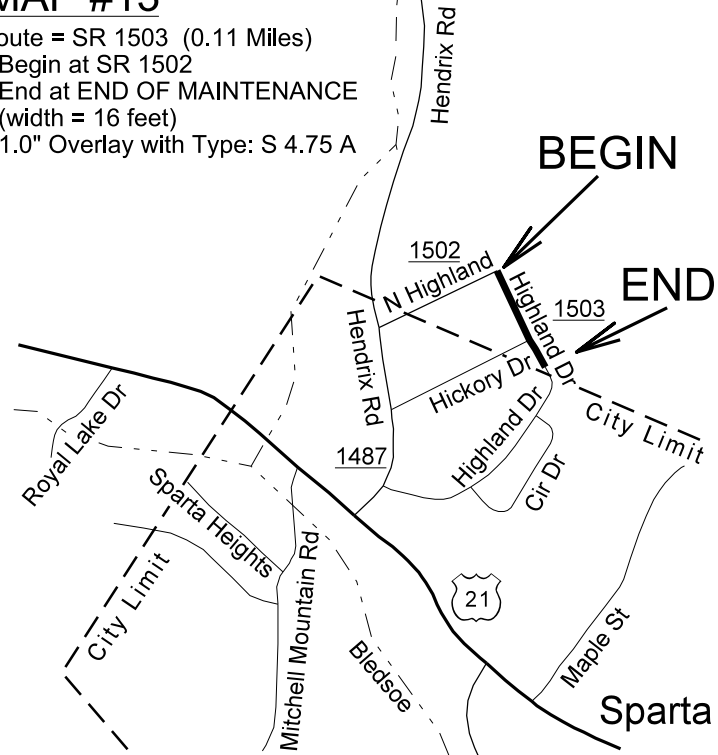
2018

TYPE OF WORK: ASPHALT RESURFACING
SECONDARY ROUTES



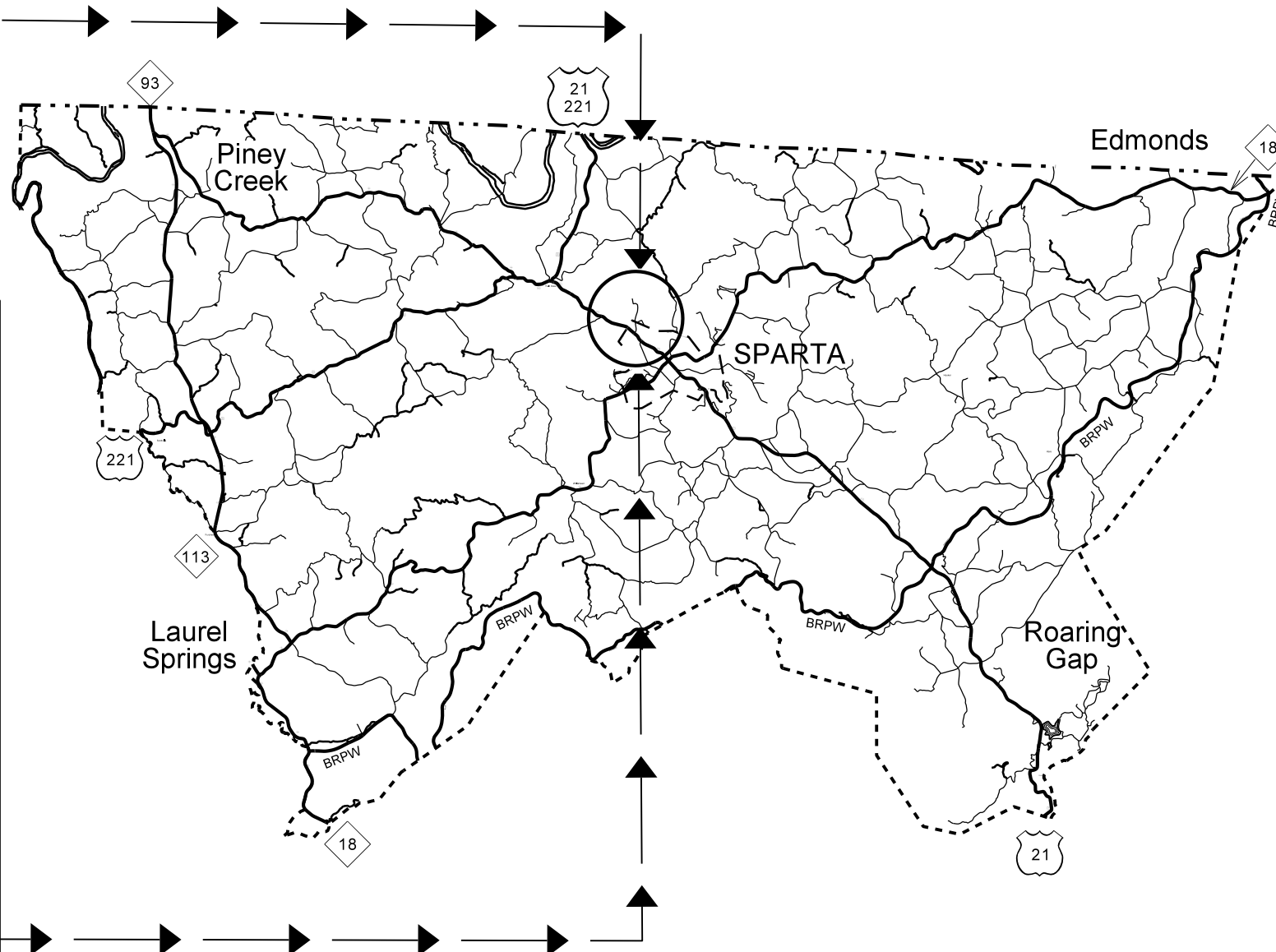
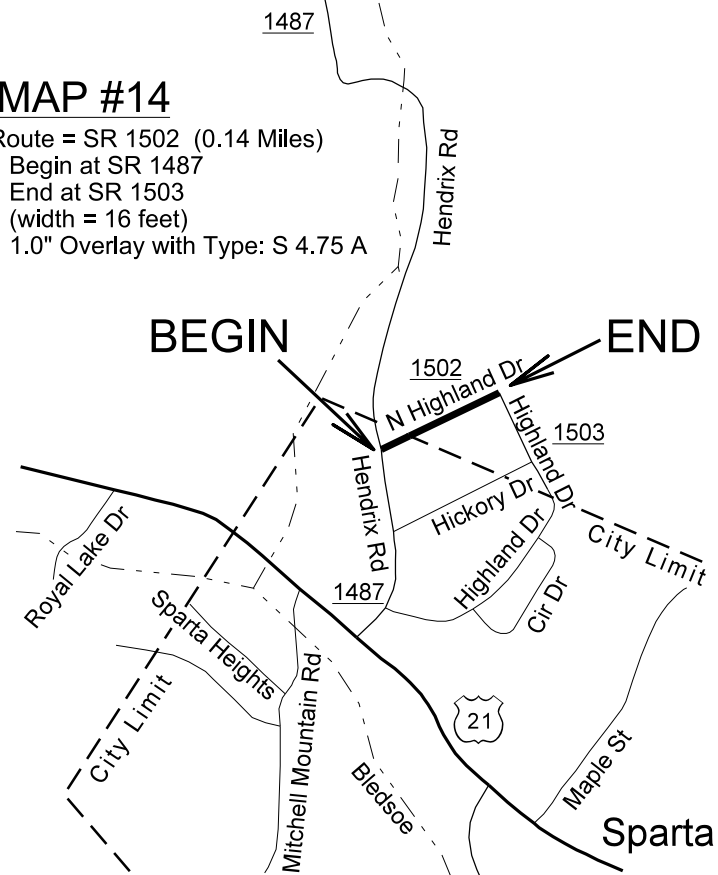
MAP #13

Route = SR 1503 (0.11 Miles)
Begin at SR 1502
End at END OF MAINTENANCE
(width = 16 feet)
1.0" Overlay with Type: S 4.75 A



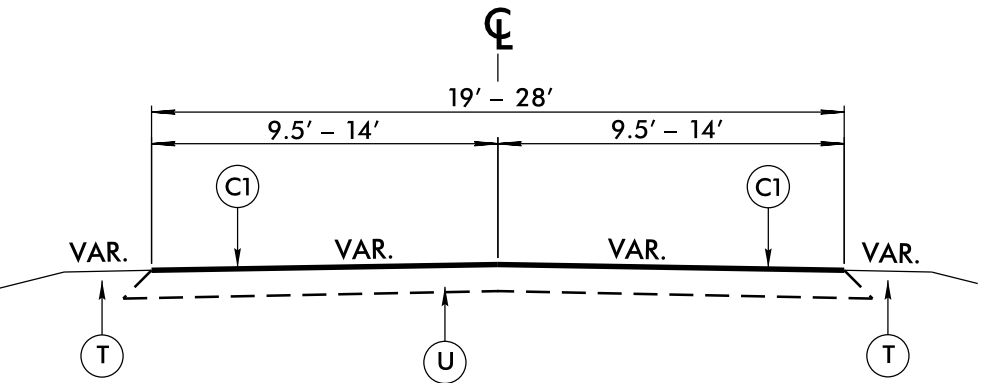
MAP #14

Route = SR 1502 (0.14 Miles)
Begin at SR 1487
End at SR 1503
(width = 16 feet)
1.0" Overlay with Type: S 4.75 A



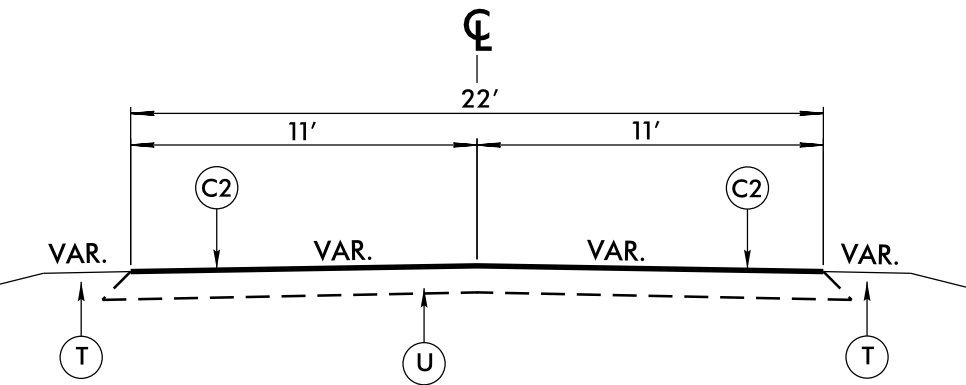
TYPICAL SECTION NO. 1

REFER TO: MAPS 1, 2 and 4



TYPICAL SECTION NO. 2

REFER TO: MAP 3

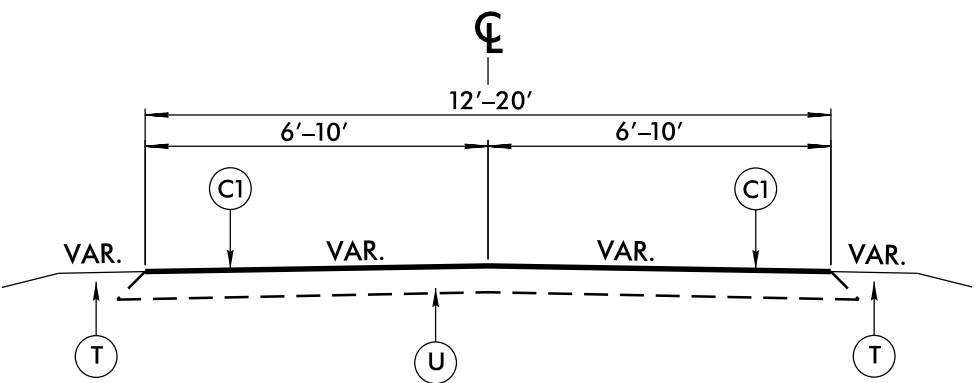


PRIMARY ROUTES

SECONDARY ROUTES

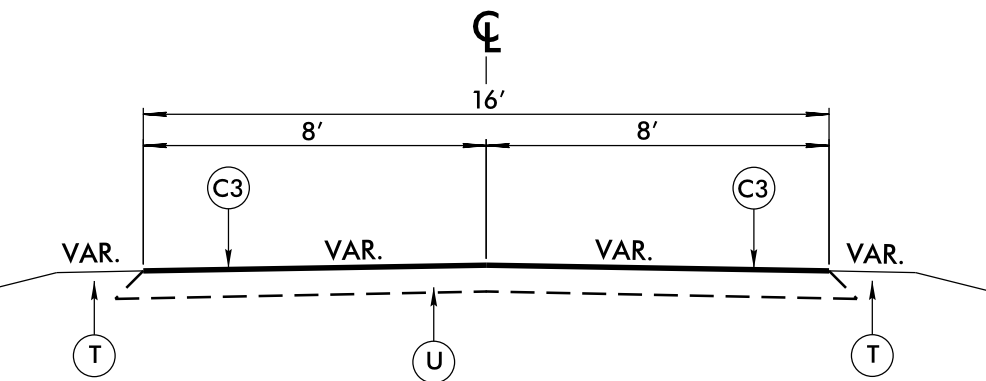
TYPICAL SECTION NO. 3

REFER TO: MAPS 5 thru 12 (inclusive)

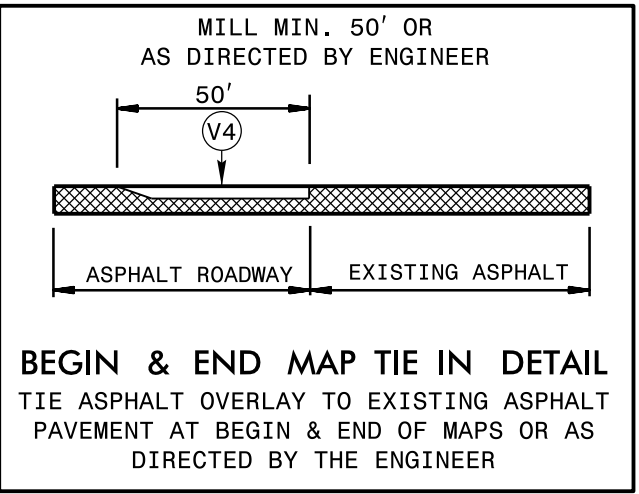
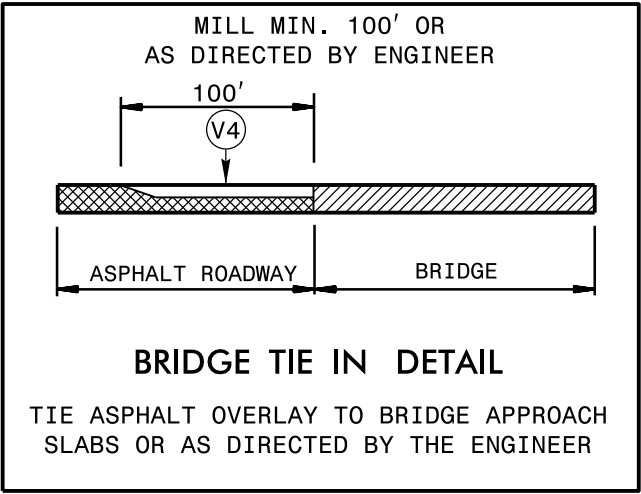


TYPICAL SECTION NO. 4

REFER TO: MAPS 13 and 14



PAVEMENT SCHEDULE	
V4	INCIDENTAL MILLING (See Tie in Detail below)
C1	PROPOSED: 1.5" FILL with TYPE: SF 9.5 A AVERAGE ASPHALT RATE: 165 Lbs. per Sq. Yd.
C2	PROPOSED: 1.5" OVERLAY with TYPE: S 9.5 B AVERAGE ASPHALT RATE: 168 Lbs. per Sq. Yd.
C3	PROPOSED: 1.0" OVERLAY with TYPE: S 4.75 A AVERAGE ASPHALT RATE: 100 Lbs. per Sq. Yd.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT



ALLEGHANY COUNTY
PRIMARY & SECONDARY
ROADS - 2018
ASPHALT RESURFACING

DIVISION II

REVISIONS	INIT.	DATE

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

SCALE: N/A DATE: 12/2016
PREPARED BY: S.B. DARNELL
REVIEWED BY: J.D. WOOD
REVIEWED BY:

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.11.01.10031		
2018CPT.11.01.20031		

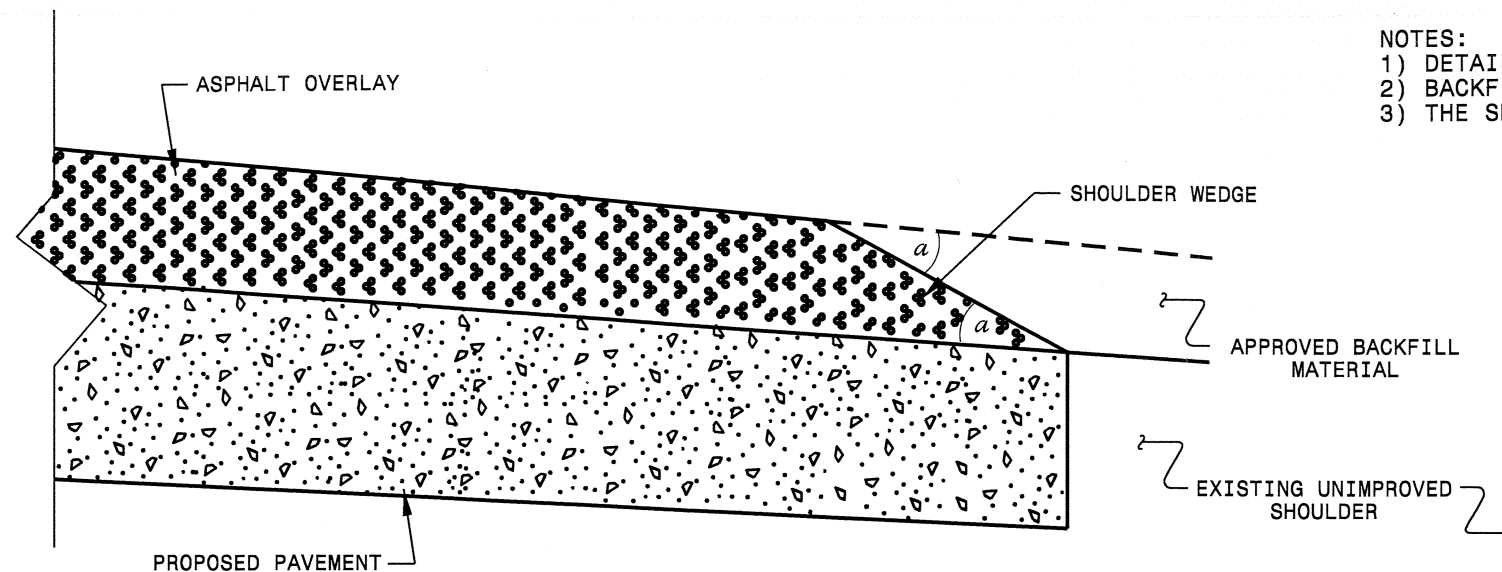
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH MI	WIDTH FT	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRU CTION SMI	1½" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	SURFACE COURSE, S4.75A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJ. OF MANHOLES EA	SEED & MULCHING AC
2018CPT.11.01.10031	Alleghany	1	US 221	FROM NC 113 TO SR 1161	1	2	2WU	2.19	23	329	219	4.38			150			2,601		174	100		0.79
2018CPT.11.01.10031	Alleghany	2	NC 88	FROM ASHE COUNTY LINE TO NC 18	1	2	2WU	0.28	21	42	28	0.56			150			430		29	75		0.10
2018CPT.11.01.10031	Alleghany	3	NC 18	FROM SR 1441 TO 0.72 MILES PAST SR 1444	2	2	2WU	3.84	22	576	384	7.68			250	4,297				258	150		1.38
2018CPT.11.01.10031	Alleghany	4	NC 113	FROM SR 1159 TO US 221	1	2	2WU	0.81	20	122	81	1.62			220			909		61			0.29
TOTAL FOR PROJ NO. 2018CPT.11.01.10031								7.12		1,069	712	14.24			770	4,297		3,940		522	325		2.56
2018CPT.11.01.20031	Alleghany	5	SR 1444	FROM SR 1454 TO SR 1433	3	2	2WU	1.96	20	294	196	3.92	511		225			2,073		139	100		0.71
2018CPT.11.01.20031	Alleghany	6	SR 1403	FROM INDEPENDENCE RD TO NC 18	3	2	2WU	0.5	18	75	50	1.00	800		225			489		33	75	4	0.18
2018CPT.11.01.20031	Alleghany	7	SR 1420	FROM US 21 TO DEAD END	3	2	2WU	2.25	20	338	225	4.50			225		473	2,392		191	150		0.81
2018CPT.11.01.20031	Alleghany	8	SR 1422	FROM SR 1432 TO US 21	3	2	2WU	1.3	20	195	130	2.60		444	225		274	1,441		114	100		0.47
2018CPT.11.01.20031	Alleghany	9	SR 1422	FROM SR 1444 TO SR 1445	3	2	2WU	1.08	20	162	108	2.16			225		175	1,162		89	150		0.39
2018CPT.11.01.20031	Alleghany	10	SR 1460	FROM SR 1444 TO BLUE RIDGE PARKWAY	3	2	2WU	0.67	18	101	67	1.34			225			668		45	100		0.24
2018CPT.11.01.20031	Alleghany	11	SR 1470	FROM SR 1464 TO SR 1471	3	2	2WU	0.96	20	144	96	1.92			225		202	1,020		81	120		0.35
2018CPT.11.01.20031	Alleghany	12	SR 1487	FROM US 21 TO DEAD END	3	2	2WU	0.8	18	120	80	1.60			225			777		52	75		0.58
2018CPT.11.01.20031	Alleghany	13	SR 1503	FROM SR 1502 TO END OF MAINTENANCE	4	2	2WU	0.11	16	17	11	0.22			225				84	6	50		0.04
2018CPT.11.01.20031	Alleghany	14	SR 1502	FROM SR 1487 TO SR 1503	4	2	2WU	0.14	16	21	14	0.28			225				109	7	50		0.05
TOTAL FOR PROJ NO. 2018CPT.11.01.20031								9.77		1,467	977	19.54	1,311	444	2,250		1,124	10,022	193	757	970	4	3.81
GRAND TOTAL								16.89		2,536	1,689	33.78	1,311	444	3,020	4,297	1,124	13,962	193	1,279	1,295	4	6.37

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.11.01.10031		
2018CPT.11.01.20031		

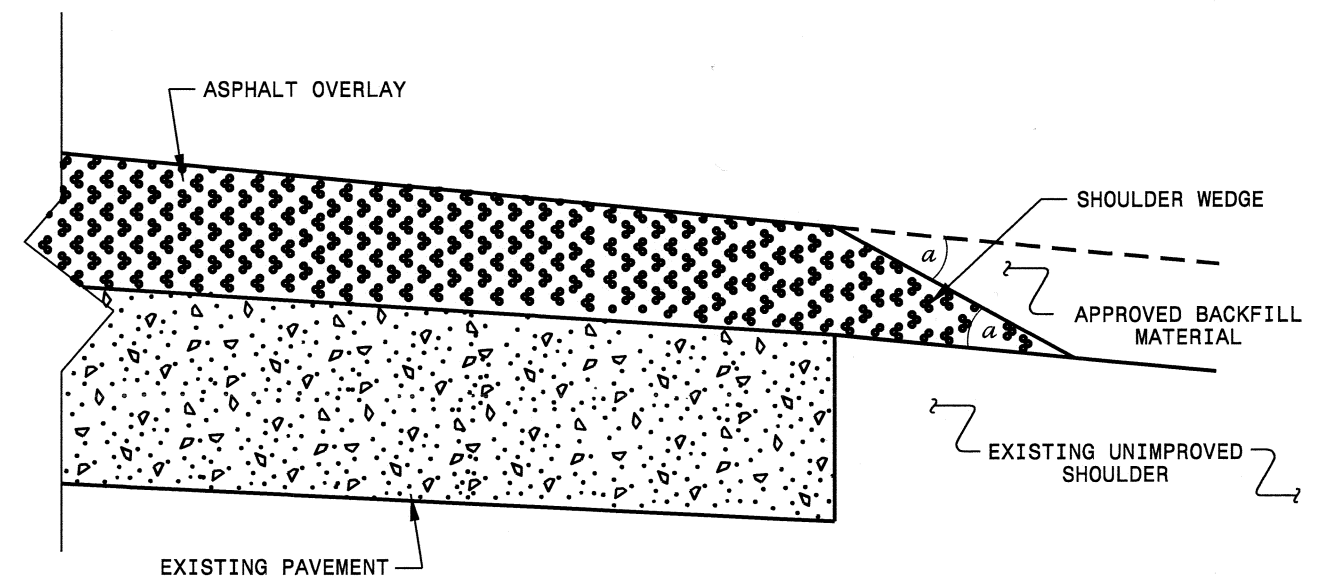
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E		4840000000-N		4905000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" WHITE PAINT	4" YELLOW PAINT	PAINT M&G STOP	PAINT M&G AHEAD	SNOW PLOWABLE MARKERS
										SF	LS	LF	LF	EA	EA	EA
NO		NO			NO											
2018CPT.11.01.10031	Alleghany	1	US 221	FROM NC 113 TO SR 1161	1	2	2WU	2.19	23	72	1.00	47,129	47,129	8	10	145
2018CPT.11.01.10031	Alleghany	2	NC 88	FROM ASHE COUNTY LINE TO NC 18	1	2	2WU	0.28	21	72	1.00	6,026	6,026			18
2018CPT.11.01.10031	Alleghany	3	NC 18	FROM SR 1441 TO 0.72 MILES PAST SR 1444	2	2	2WU	3.84	22	72	1.00	82,637	82,637			253
2018CPT.11.01.10031	Alleghany	4	NC 113	FROM SR 1159 TO US 221	1	2	2WU	0.81	20	160	1.00	17,431	17,431			54
TOTAL FOR PROJ NO. 2018CPT.11.01.10031								7.12		376	4.00	153,223	153,223	8	10	470
												306,446		18		
2018CPT.11.01.20031	Alleghany	5	SR 1444	FROM SR 1454 TO SR 1433	3	2	2WU	1.96	20	72	1.00	42,179	42,179			131
2018CPT.11.01.20031	Alleghany	6	SR 1403	FROM INDEPENDENCE RD TO NC 18	3	2	2WU	0.5	18	72	1.00	10,760	10,760			
2018CPT.11.01.20031	Alleghany	7	SR 1420	FROM US 21 TO DEAD END	3	2	2WU	2.25	20	72	1.00	48,420	48,420			
2018CPT.11.01.20031	Alleghany	8	SR 1422	FROM SR 1432 TO US 21	3	2	2WU	1.3	20	72	1.00	27,976	27,976			
2018CPT.11.01.20031	Alleghany	9	SR 1422	FROM SR 1444 TO SR 1445	3	2	2WU	1.08	20	72	1.00	23,242	23,242			
2018CPT.11.01.20031	Alleghany	10	SR 1460	FROM SR 1444 TO BLUE RIDGE PARKWAY	3	2	2WU	0.67	18	72	1.00	14,418	14,418			
2018CPT.11.01.20031	Alleghany	11	SR 1470	FROM SR 1464 TO SR 1471	3	2	2WU	0.96	20	72	1.00	20,659	20,659			
2018CPT.11.01.20031	Alleghany	12	SR 1487	FROM US 21 TO DEAD END	3	2	2WU	0.8	18	72	1.00	17,216	17,216			
2018CPT.11.01.20031	Alleghany	13	SR 1503	FROM SR 1502 TO END OF MAINTENANCE	13	2	2WU	0.11	16	72	1.00	2,367	2,367			
2018CPT.11.01.20031	Alleghany	14	SR 1502	FROM SR 1487 TO SR 1503	14	2	2WU	0.14	16	72	1.00	3,013	3,013			
TOTAL FOR PROJ NO. 2018CPT.11.01.20031								9.77		720	10	210,250	210,250			131
												420,500				
GRAND TOTAL								16.89		1,096	14	363,473	363,473	8	10	601
												726,946		18		

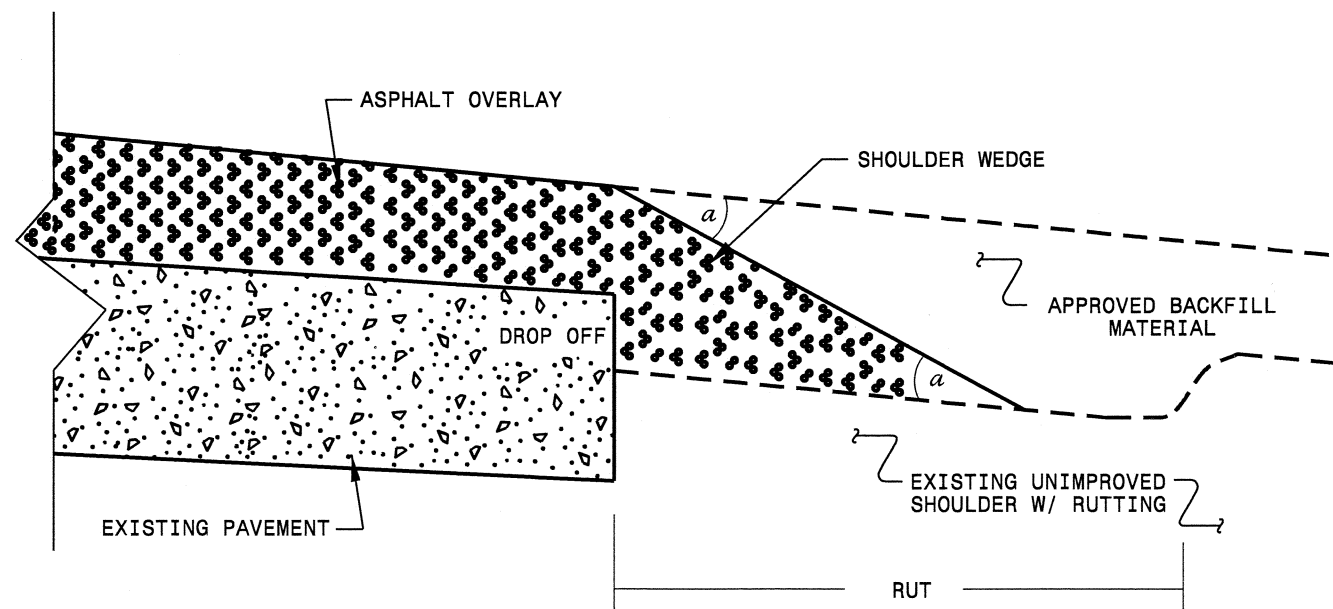


- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

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



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



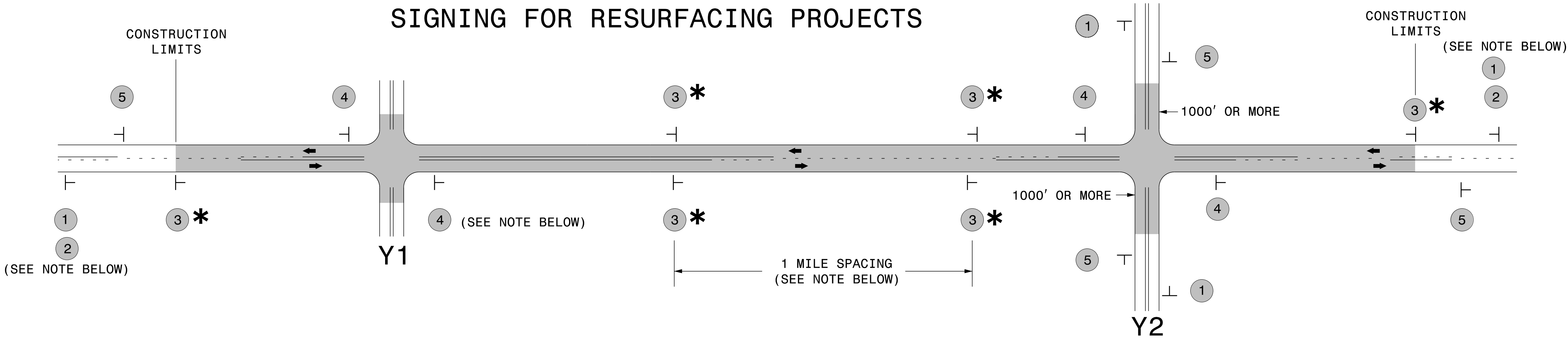
SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

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



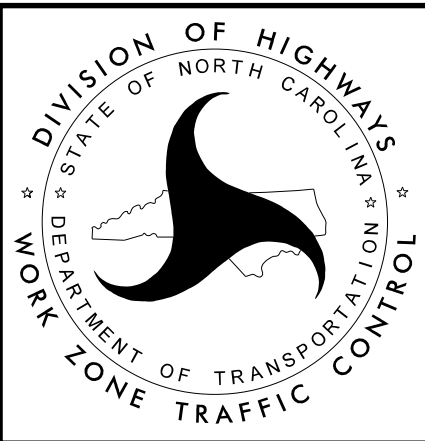
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 2 PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. #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)	NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS: 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS 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. PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.
	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