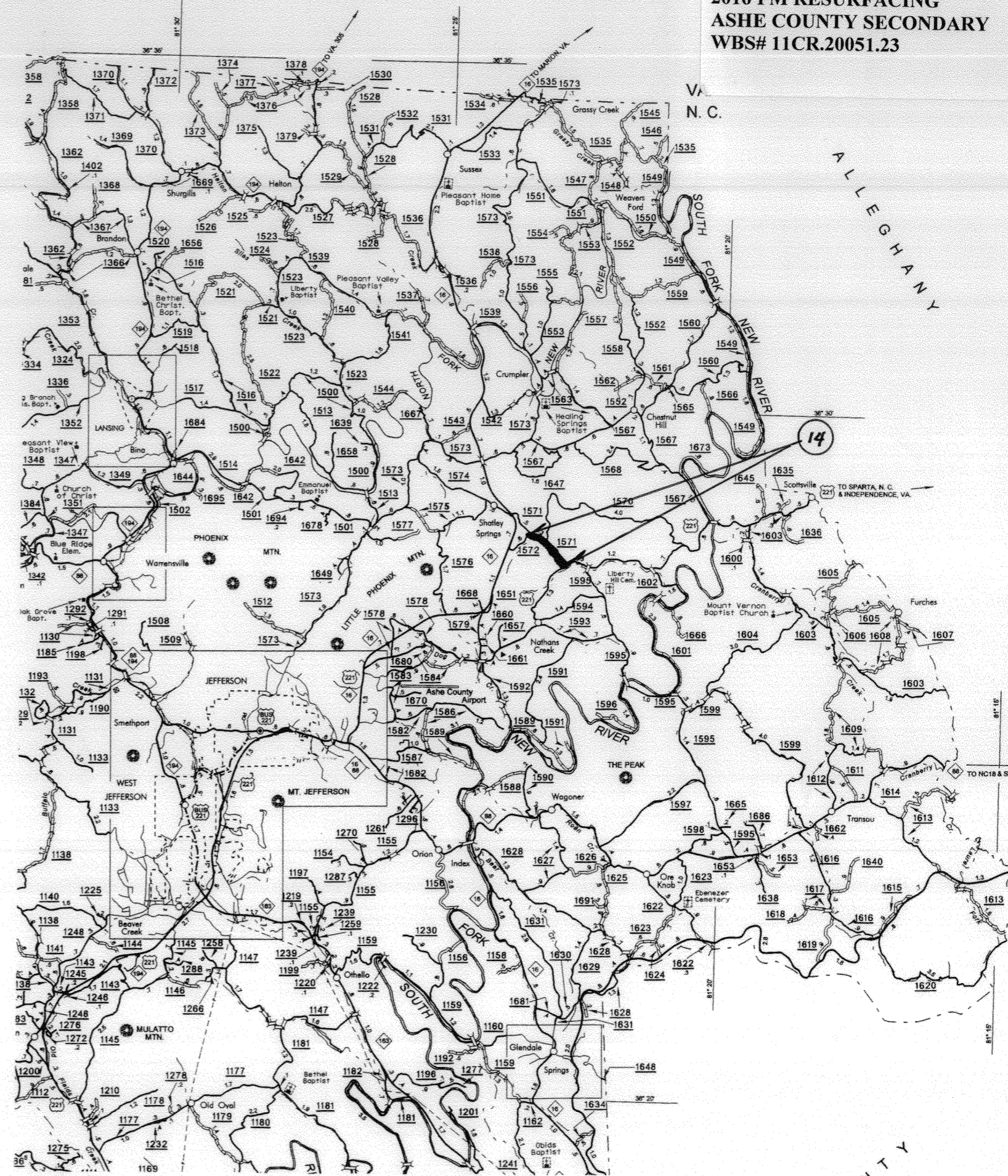
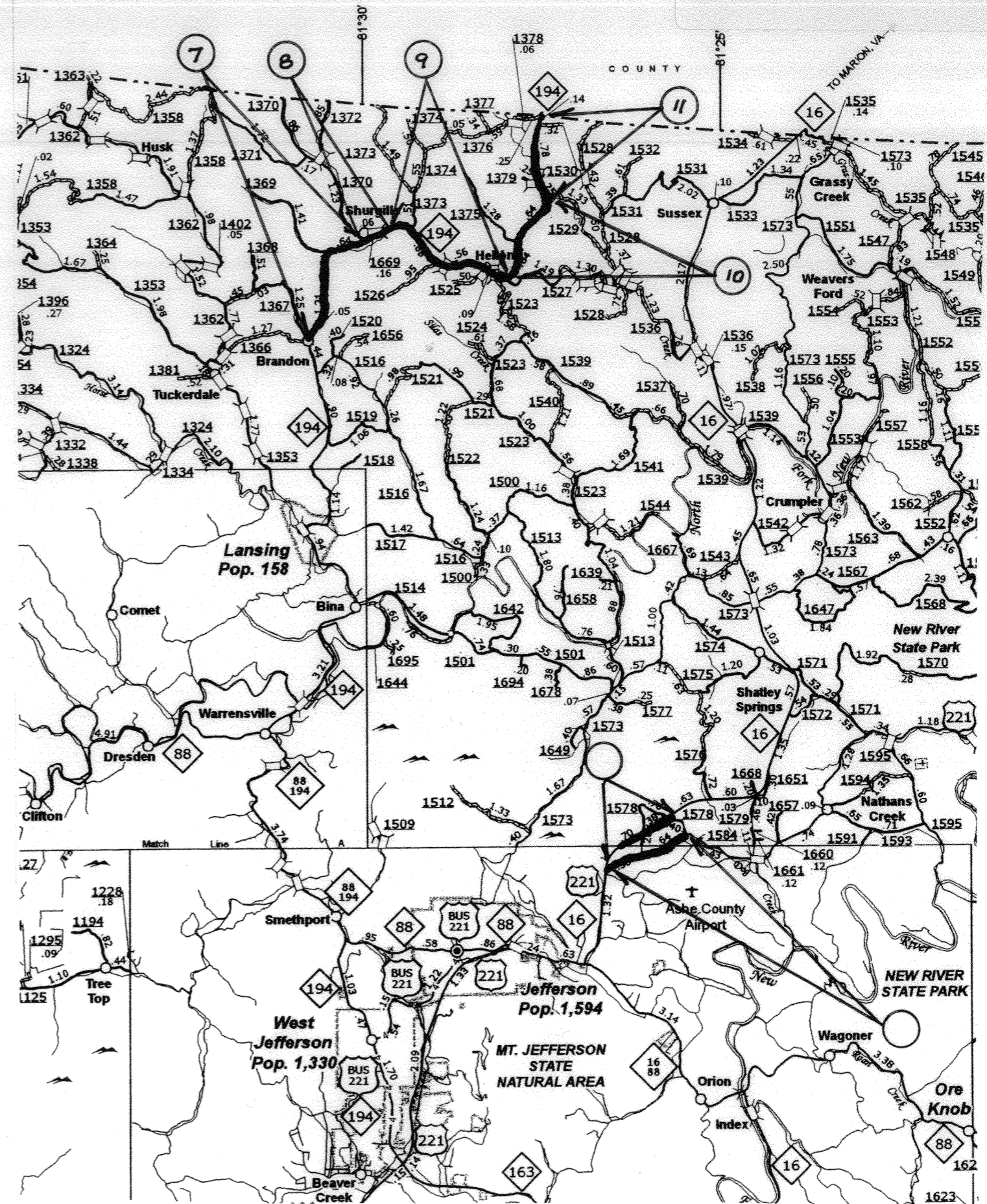
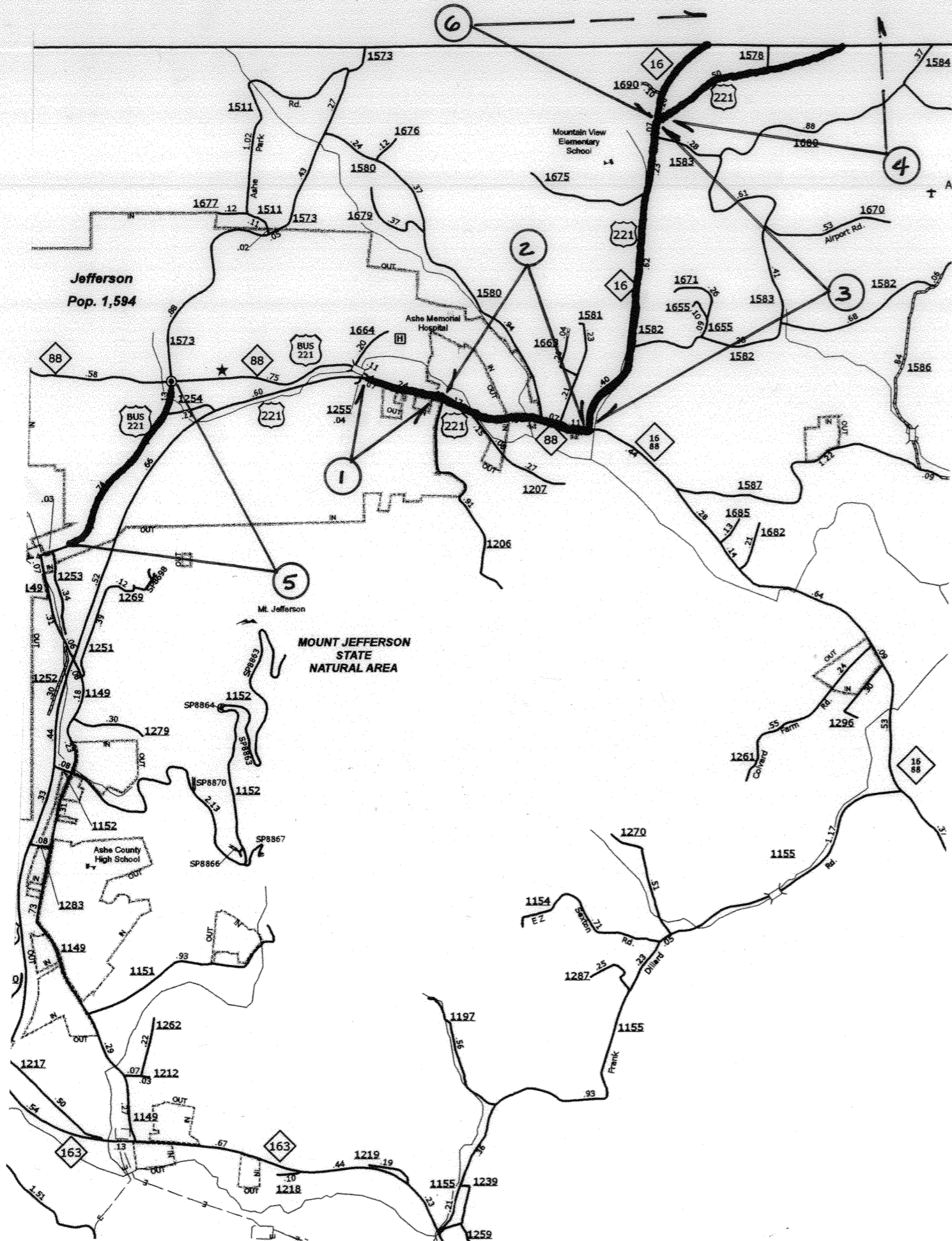
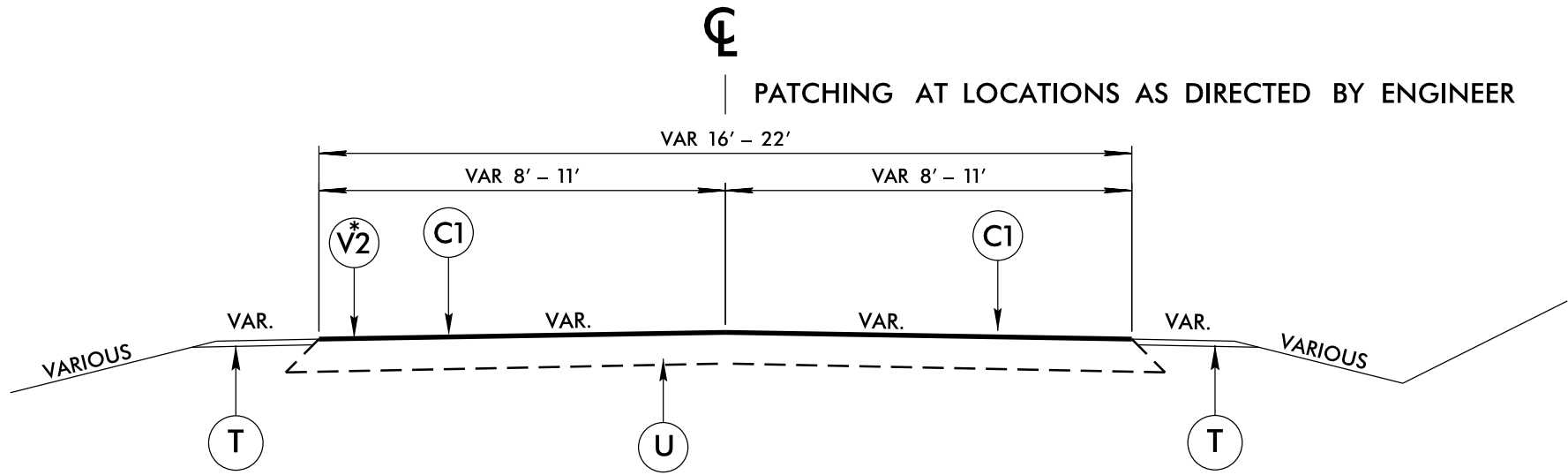


West Jefferson and Jefferson



Phoenix



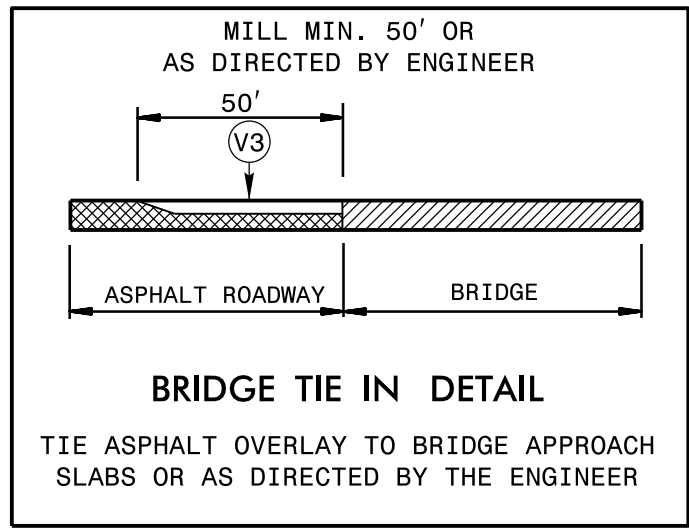
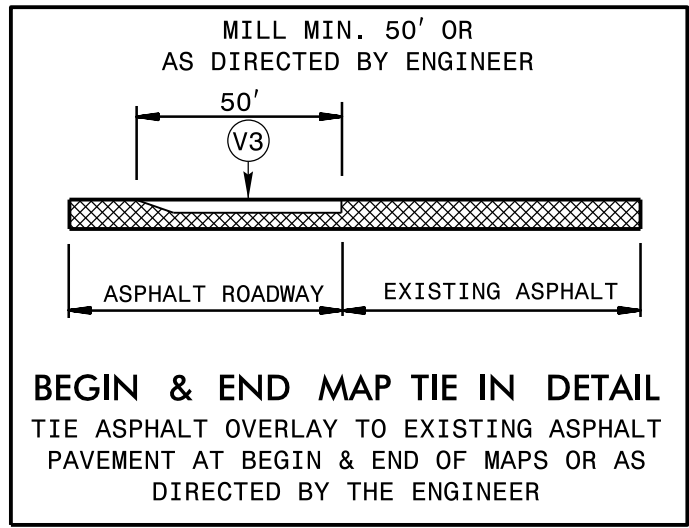


CL
PATCHING AT LOCATIONS AS DIRECTED BY ENGINEER

TYPICAL SECTION NO. 1

- MAP 7 - NC 194 FROM SR 1367 TO SR 1370
- MAP 8 - NC 194 FROM SR 1370 TO BRIDGE
- MAP 9 - NC 194 FROM BRIDGE TO SR 1527
- MAP 10 - NC 194 FROM SR 1527 TO SR 1529
- MAP 11 - NC 194 FROM SR 1529 TO VA LINE*
- MAP 12 - SR 1134 FROM US 221 BUS TO WIDTH CHANGE**
- MAP 13 - SR 1226 FROM SR 1134 TO MTN. AVE
- MAP 14 - SR 1571 FROM US 221 TO SR 1572
- *Mill 0" - 1 1/2" at Expressway Gutter STA. 11+57RT & 14+98LT
- **Mill 0" - 1 1/2" at Curb & Gutter STA. 0+50 to 2+05RT

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1 1/2"
V2	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 0" - 1 1/2"
V3	INCIDENTAL MILLING



**ASHE COUNTY
PRIMARY & SECONDARY
RESURFACING**

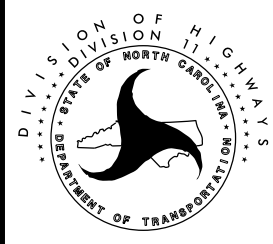
DIVISION II

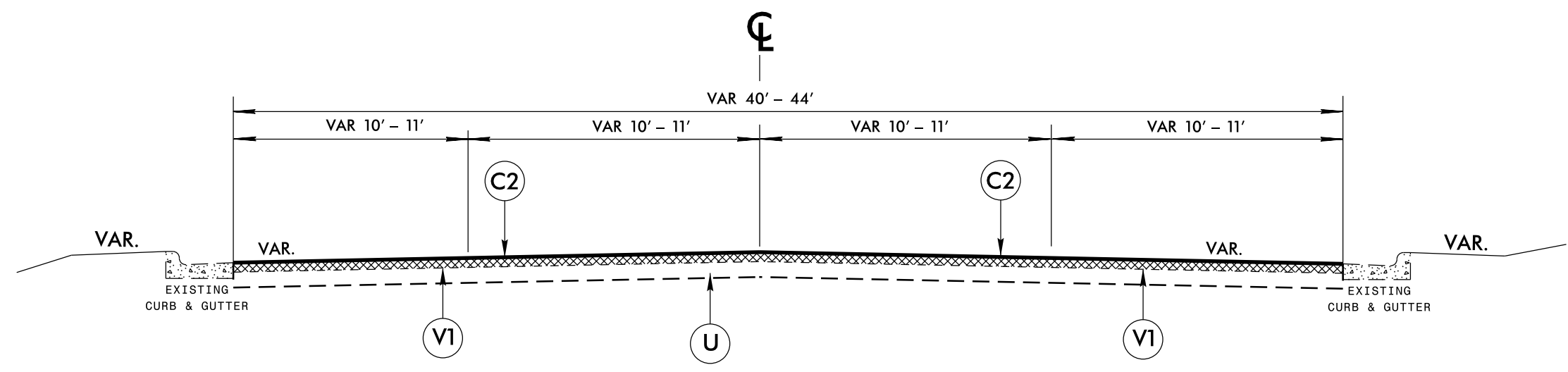
REVISIONS	INT.	DATE

SCALE: N/A DATE: 06/2015

PREPARED BY: J. L. LAWS
REVIEWED BY:
REVIEWED BY:

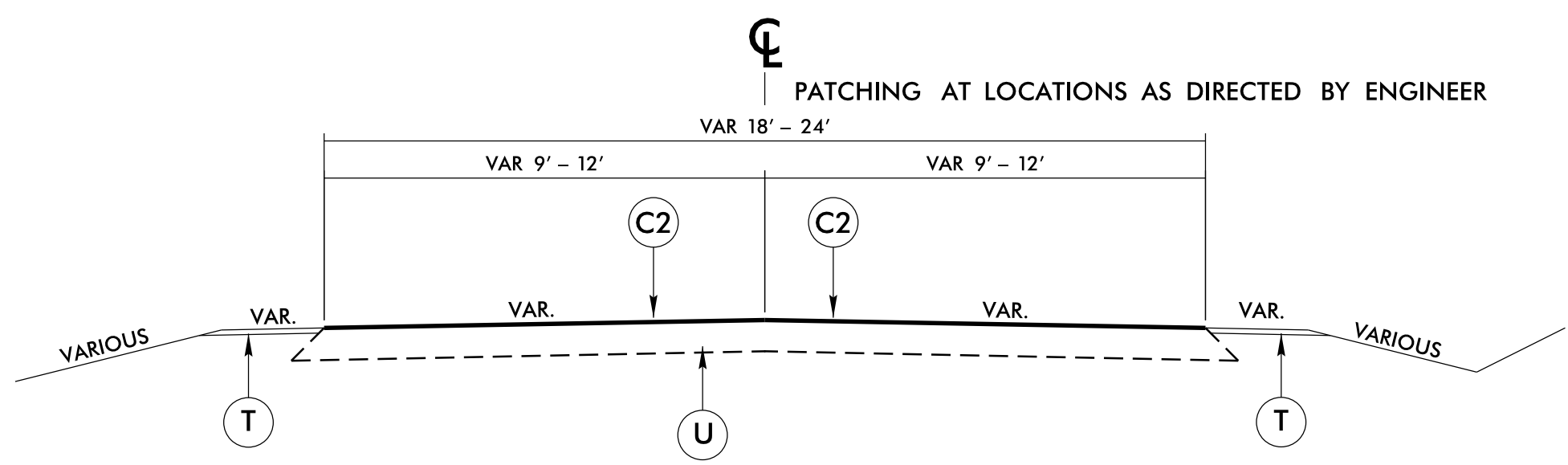
**N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
DIVISION ELEVEN**





TYPICAL SECTION NO. 4

MAP 1 - US 221 FROM US 221 BUS TO ECL JEFFERSON
 MAP 2 - US 221 FROM ECL JEFFERSON TO NC 88
 MAP 3 - US 221 FROM NC 88 TO 380' S OF MCCONNELL ST



TYPICAL SECTION NO. 2

MAP 3 - US 221 FROM NC 88 TO NC 16
 MAP 4 - US 221 FROM NC 16 TO SR 1578
 MAP 6 - NC 16 FROM US 221 TO SR 1576

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 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" - 1½"
V3	INCIDENTAL MILLING

**ASHE COUNTY
 PRIMARY & SECONDARY
 RESURFACING**

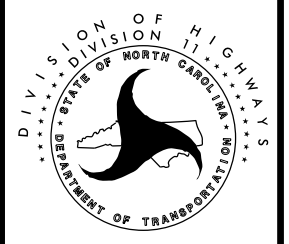
DIVISION II

REVISIONS	INT.	DATE

SCALE: N/A DATE: 06/2015

PREPARED BY: J. L. LAWS
 REVIEWED BY: _____
 REVIEWED BY: _____

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



PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.10051.23, 11CR.20051.23		

SUMMARY OF QUANTITIES

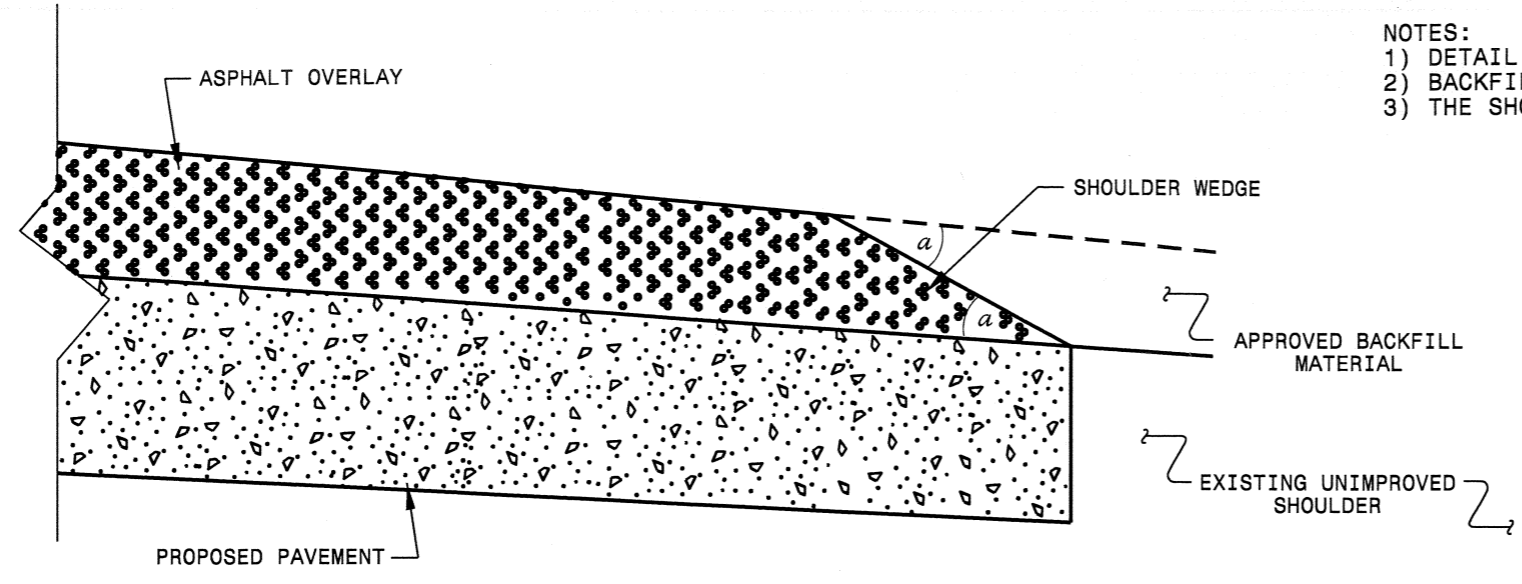
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	0" TO 1 1/2" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJ. OF CATCH BASIN EA	ADJ. OF DROP INLET EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	SEED & MULCHING AC	PAVED TRENCHING (1,2") LF	UNPAVED TRENCHING (1,2") LF	JUNCTION BOX (STANDARD SIZE) EA	INDUCTIVE LOOP LF	LEAD-IN CABLE (14-2) LF
2016CPT.11.02.10051.1	Ashe	1	US 221	FROM US 221 BUSINESS TO ECL JEFFERSON	3	4	MU	NO	NO	0.34	44		20		13,425			1,138		68	33		1	3		100.00	200.00	3.00	1,037	300	
2016CPT.11.02.10051.1	Ashe	2	US 221	FROM ECL JEFFERSON TO NC 88	3	4	MU	NO	NO	0.54	44		20		14,800			1,277		77	33		1								
2016CPT.11.02.10051.1	Ashe	3	US 221	FROM NC 88 TO NC 16	2	2	2WU	NO	NO	1.32	24	264	75	2.64			600	1,840		110	88				1.28						
2016CPT.11.02.10051.1	Ashe	4	US 221	FROM NC 16 TO SR 1578	2	2	2WU	NO	NO	1.16	18	232	75	2.32			200	1,111		67	77				1.12						
2016CPT.11.02.10051.1	Ashe	5	US 221	FROM NC 88 TO 380' S OF MCCONNELL ST	3	4	MU	NO	NO	0.5	40		10		12,376			1,043		63	107	17		1		100.00	200.00	1.00	500	100	
2016CPT.11.02.10051.1	Ashe	6	NC 16	FROM US 221 TO SR 1576	2	2	2WU	NO	NO	1.71	22	342	150	3.42			122	2,016		121	114				1.66						
2016CPT.11.02.10051.1	Ashe	7	NC 194	FROM SR 1367 TO SR 1370	1	2	2WU	NO	NO	1.85	18	370	75	3.70			100		1,688	113	123				1.79						
2016CPT.11.02.10051.1	Ashe	8	NC 194	FROM SR 1370 TO BRIDGE	1	2	2WU	NO	NO	0.11	22	22	5	0.22			122		153	10	7				0.11						
2016CPT.11.02.10051.1	Ashe	9	NC 194	FROM BRIDGE TO SR 1527	1	2	2WU	NO	NO	1.87	18	374	100	3.74			117		1,727	116	125				1.81						
2016CPT.11.02.10051.1	Ashe	10	NC 194	FROM SR 1527 TO SR 1529	1	2	2WU	NO	NO	1.48	18	296	75	2.96					1,318	88	99				1.44						
2016CPT.11.02.10051.1	Ashe	11	NC 194	FROM SR 1529 TO VA LINE	1	2	2WU	NO	NO	1.19	18	238	50	2.38		178	442		1,084	73	80				1.15						
TOTAL FOR PROJ NO. 2016CPT.11.02.10051.1										12.07		2,138	655	21.38	40,601	178	1,703	8,425	5,970	906	886	17	2	4	10.36	200.00	400.00	4.00	1,537	400	
2016CPT.11.02.20051.1	Ashe	12	SR 1134	FROM US 221 BUSINESS TO WIDTH CHG	1	2	2WU	NO	NO	0.8	18	160	25	1.60		344	264		707	47	67			1	1	0.78					
2016CPT.11.02.20051.1	Ashe	13	SR 1226	FROM SR 1134 TO MTN. AVE	1	2	2WU	NO	NO	0.2	16	40	10	0.40			180		156	10	20			2	3	0.19					
2016CPT.11.02.20051.1	Ashe	14	SR 1571	FROM US 221 TO SR 1572	1	2	2WU	NO	NO	0.84	18	168	50	1.68			200		762	51	56				0.81						
TOTAL FOR PROJ NO. 2016CPT.11.02.20051.1										1.84		368	85	3.68		344	644		1,625	108	143			3	4	1.78					
GRAND TOTAL										13.91		2,506	740	25.06	40,601	522	2,347	8,425	7,595	1,014	1,029	17	2	7	4	12.14	200.00	400.00	4.00	1,537	400

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.10051.23, 11CR.20051.23		

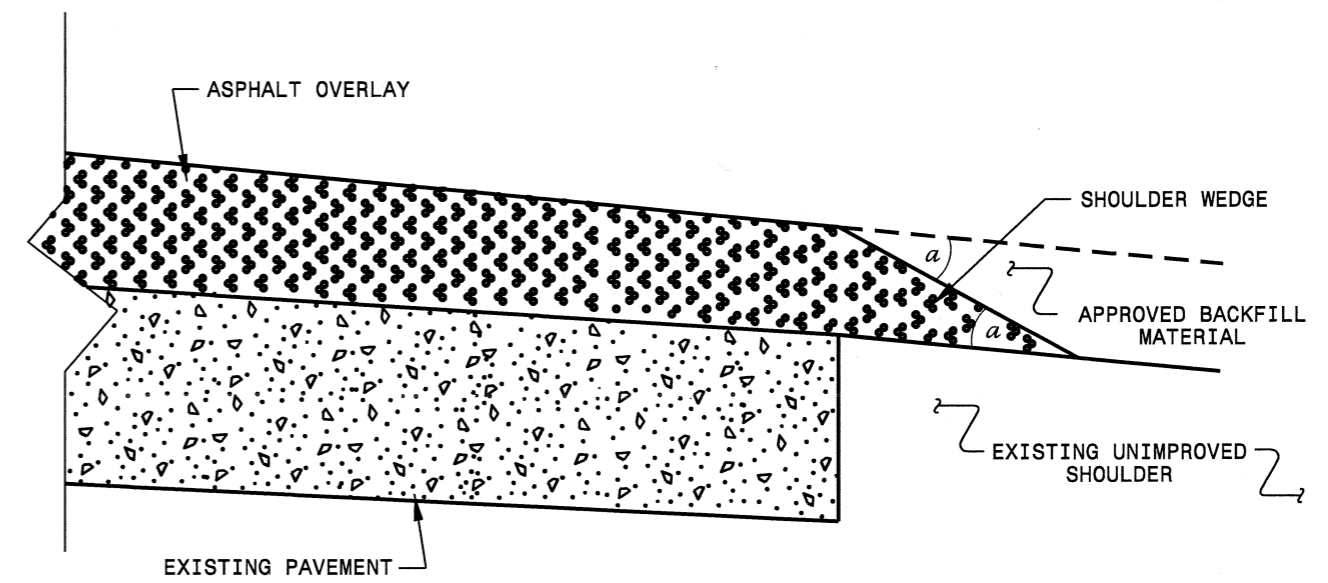
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	441300000-E	445700000-N	481000000-E		482000000-E		483500000-E	484000000-N		484500000-N			490500000-N		
										WORK ZONE ADVANCE/GENERAL WARNING SIGNS SF	TEMPORARY TRAFFIC CONTROL LS	4" YELLOW PAINT LF	4" WHITE PAINT LF	8" WHITE PAINT LF	8" YELLOW PAINT LF	24" WHITE PAINT LF	PAINT MSG ONLY EA	PAINT MSG SCHOOL EA	PAINT LT ARROW EA	PAINT RT ARROW EA	PAINT STR ARROW EA	PAINT STR & RT ARROW EA	PAINT STR & LT ARROW EA	SNOW PLOWABLE MARKERS EA
2016CPT.11.02.10051.1	Ashe	1	US 221	FROM US 221 BUSINESS TO ECL JEFFERSON	3	4	MU	0.34	44	64	1	8,500	5,000	750		350			12	2	6	8		23
2016CPT.11.02.10051.1	Ashe	2	US 221	FROM ECL JEFFERSON TO NC 88	3	4	MU	0.54	44	64	*	11,904	6,134	800	600	30	24		10	4	4			36
2016CPT.11.02.10051.1	Ashe	3	US 221	FROM NC 88 TO NC 16	2	2	2WU	1.32	24	192	*	30,040	28,406		300	300		12	12	4				87
2016CPT.11.02.10051.1	Ashe	4	US 221	FROM NC 16 TO SR 1578	2	2	2WU	1.16	18	184	*	24,500	24,963											77
2016CPT.11.02.10051.1	Ashe	5	US 221	FROM NC 88 TO 380' S OF MCCONNELL ST	3	4	MU	0.5	40	120	*	10,610	1,000			80			2	6			4	33
2016CPT.11.02.10051.1	Ashe	6	NC 16	FROM US 221 TO SR 1576	2	2	2WU	1.71	22	184	*	36,116	36,799		250	100		12						113
2016CPT.11.02.10051.1	Ashe	7	NC 194	FROM SR 1367 TO SR 1370	1	2	2WU	1.85	18	152	*	39,072	39,812											123
2016CPT.11.02.10051.1	Ashe	8	NC 194	FROM SR 1370 TO BRIDGE	1	2	2WU	0.11	22	40	*	2,324	2,367											8
2016CPT.11.02.10051.1	Ashe	9	NC 194	FROM BRIDGE TO SR 1527	1	2	2WU	1.87	18	144	*	39,500	40,242											124
2016CPT.11.02.10051.1	Ashe	10	NC 194	FROM SR 1527 TO SR 1529	1	2	2WU	1.48	18	136	*	31,260	31,850											98
2016CPT.11.02.10051.1	Ashe	11	NC 194	FROM SR 1529 TO VA LINE	1	2	2WU	1.19	18	120	*	25,132	25,609											79
TOTAL FOR PROJ NO. 2016CPT.11.02.10051.1									12.07	1,400		258,958	242,182	1,550	1,150	860	24	24	36	16	10	8	4	801
											501,140		2,700			48		74						
2016CPT.11.02.20051.1	Ashe	12	SR 1134	FROM US 221 BUSINESS TO WIDTH CHG	1	2	2WU	0.8	18	104	*	16,896	17,216			24								
2016CPT.11.02.20051.1	Ashe	13	SR 1226	FROM SR 1134 TO MTN. AVE	1	2	2WU	0.2	16	64	*													
2016CPT.11.02.20051.1	Ashe	14	SR 1571	FROM US 221 TO SR 1572	1	2	2WU	0.84	18	104		17,741	18,077											56
TOTAL FOR PROJ NO. 2016CPT.11.02.20051.1									1.84	272	1	34,637	35,293			24								56
											69,930													
GRAND TOTAL									13.91	1,672	1	293,595	277,475	1,550	1,150	884	24	24	36	16	10	8	4	857
											571,070		2,700			48		74						

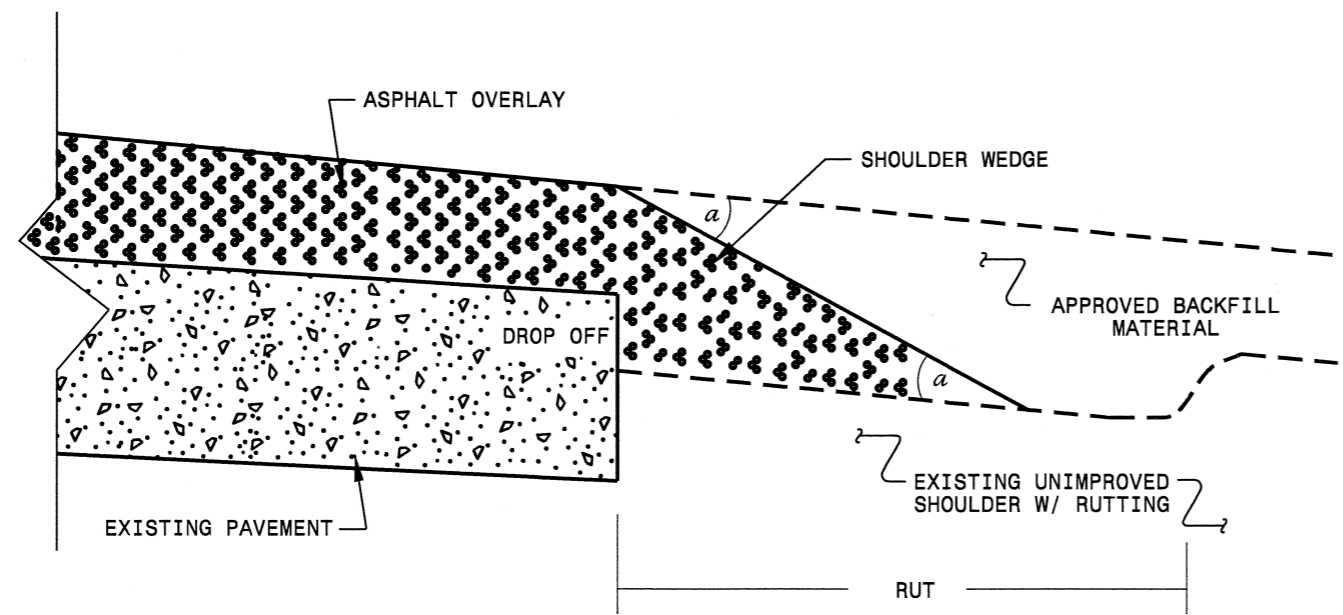
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

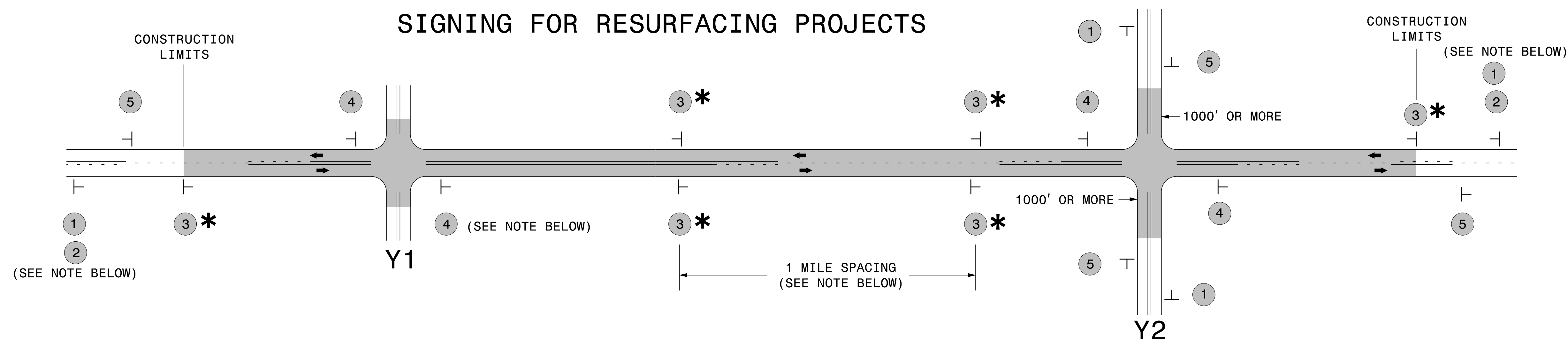
CONTRACT STANDARDS
 AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

**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		
1 2		<p style="text-align: center;">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 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;"> <p>W20-1 48" X 48"</p> </div> <div style="text-align: center;"> <p>W20-7 A 48" X 48"</p> </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
3 *		<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <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> <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		<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		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>

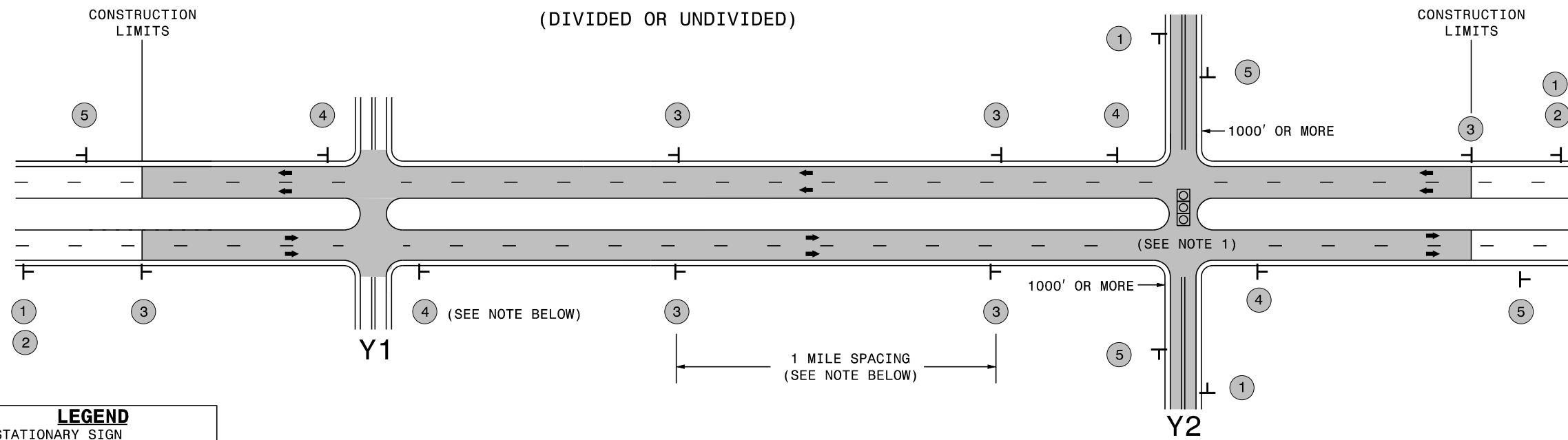
* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

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**

SIGNING FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS WITH SHOULDER SECTIONS (DIVIDED OR UNDIVIDED)

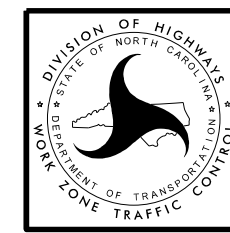


LEGEND	
T	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

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>	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;">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 style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
	2	 <small>W7-3aP 24" X 18"</small>	#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	 <small>SP 13107 48" X 48"</small>	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	 <small>SP 13106 48" X 48"</small>	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	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		



RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS W/ SHOULDER SECTIONS (DIVIDED OR UNDIVIDED)