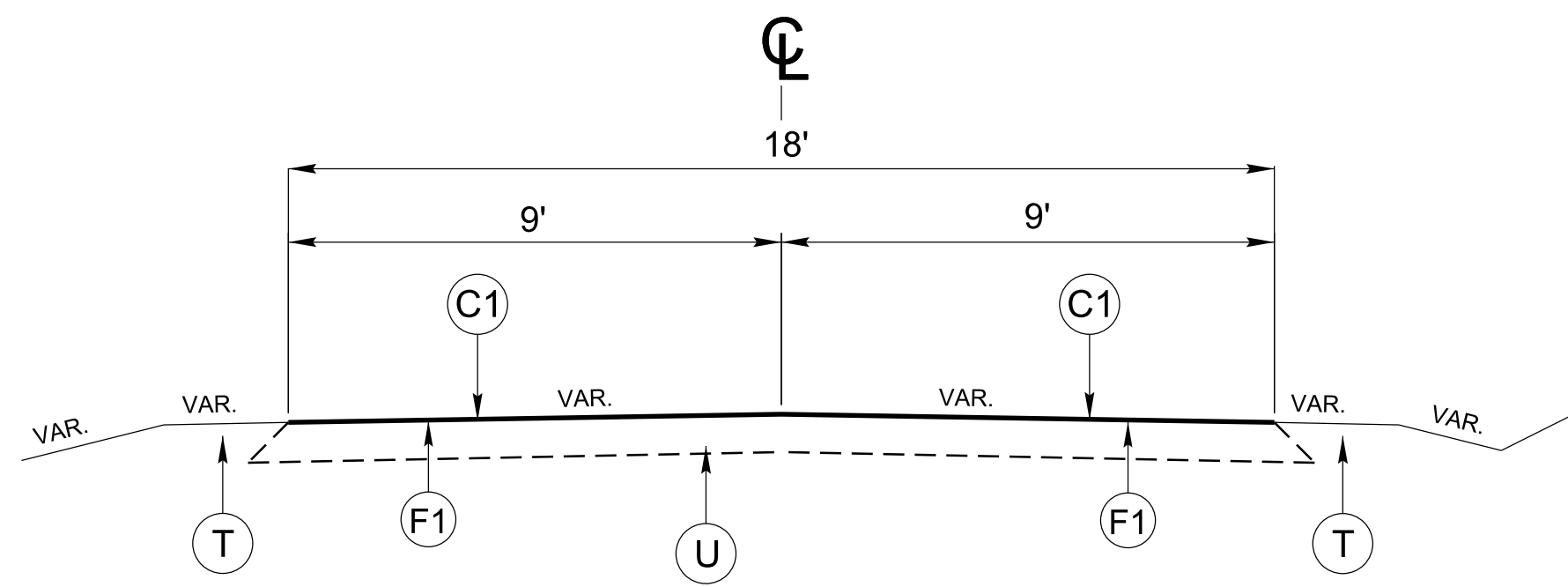


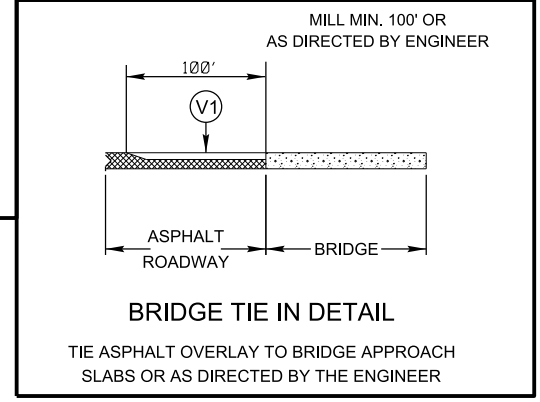
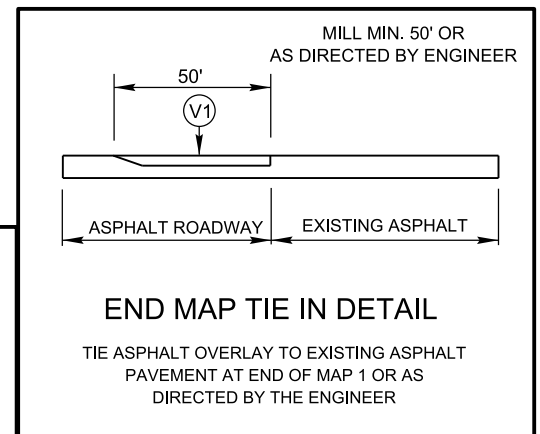
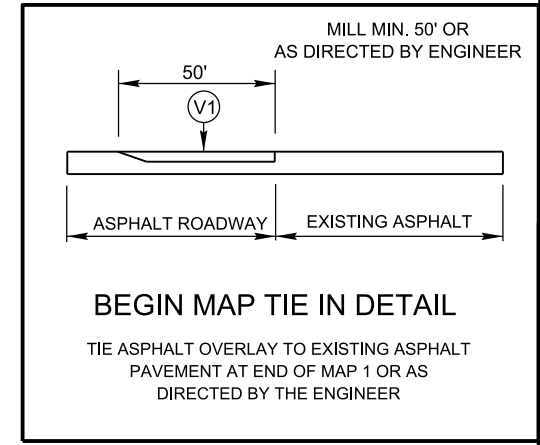
- "PATCHING EXISTING PAVEMENT" HAS BEEN INCLUDED AS A PAY ITEM ON MAPS. PATCHING MAY OR MAY NOT BE NEEDED DEPENDING ON CONDITION OF MAP SURFACE AT TIME THAT PAVING SEASON BEGINS. AREAS TO BE DELINIATED BY THE ENGINEER.
- INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, MAT COAT WITH NO.78M STONE
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING (See Tie in Detail)



TYPICAL SECTION NO. 1

MAP 1 - SR 1117 FROM SR 1153 TO SR 1138
 *MAP 4 - SR 1138 FROM SR 1121 TO SR 1117
 *(See Typical No.3 for bridge overlay locations)
 MAP 5 - SR 1143 FROM US 221 TO SR 1117/SR 1154



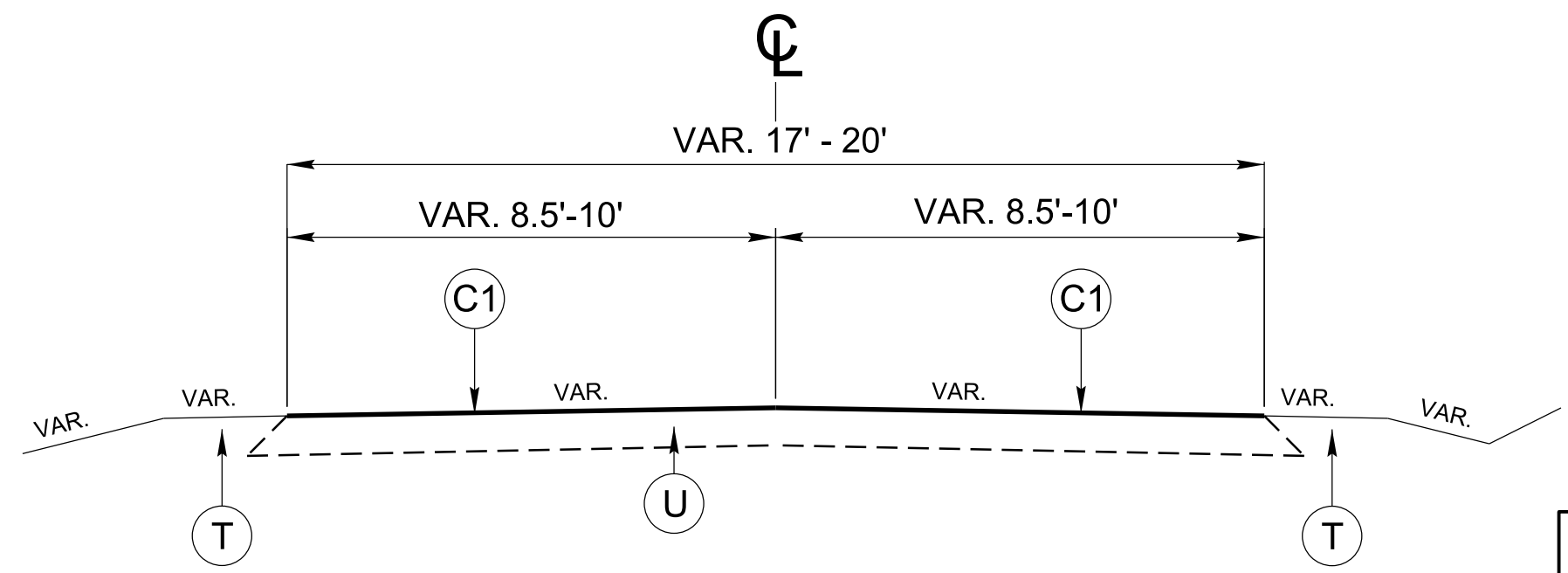
NOTE: TYPICALS ARE NOT TO SCALE

AVERY COUNTY SECONDARY ROADS 2024 ASPHALT RESURFACING													
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PREPARED BY: DLH													
REVIEWED BY:													

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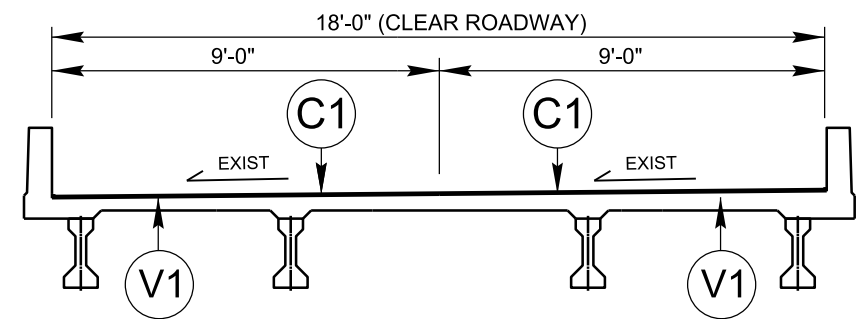
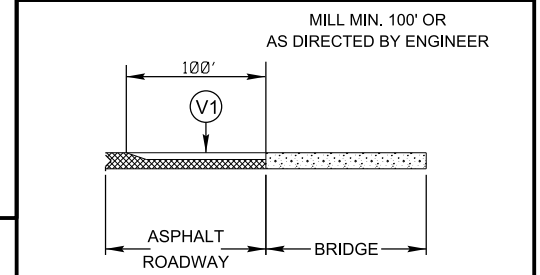
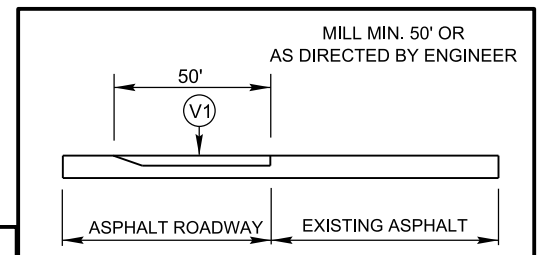
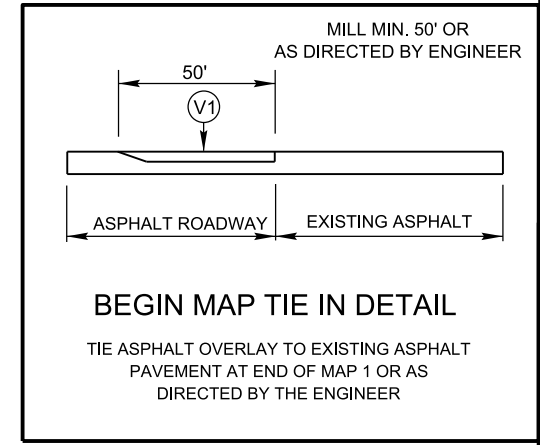
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- INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER
- *** LEVELING AT LOCATIONS AS DIRECTED BY ENGINEER THE ENGINEER

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, MAT COAT WITH NO.78M STONE
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING (See Tie in Detail)



TYPICAL SECTION NO. 2

- ***MAP 2 - SR 1117 FROM SR 1114/SR 1116 TO EOM
- *MAP 3 - SR 1121 FROM SR 1138 TO US 19E
*(See Typical No.3 for bridge overlay locations)
- MAP 6 - SR 1153 FROM SR 1154 TO SR 1117
- ***MAP 7 - SR 1154 FROM SR 1153 TO SR 1117/SR 1143



NOTE: EXISTING BRIDGE SUPERSTRUCTURES #5, #147, & #148

TYPICAL SECTION NO. 3

- MAP 3 - SR 1121 FROM MP 2.35 TO 2.385
- MAP 4 - SR 1138 FROM MP 1.235 TO 1.245 AND MP 1.36 TO 1.375

NOTE: TYPICALS ARE NOT TO SCALE

AVERY COUNTY SECONDARY ROADS 2024 ASPHALT RESURFACING													
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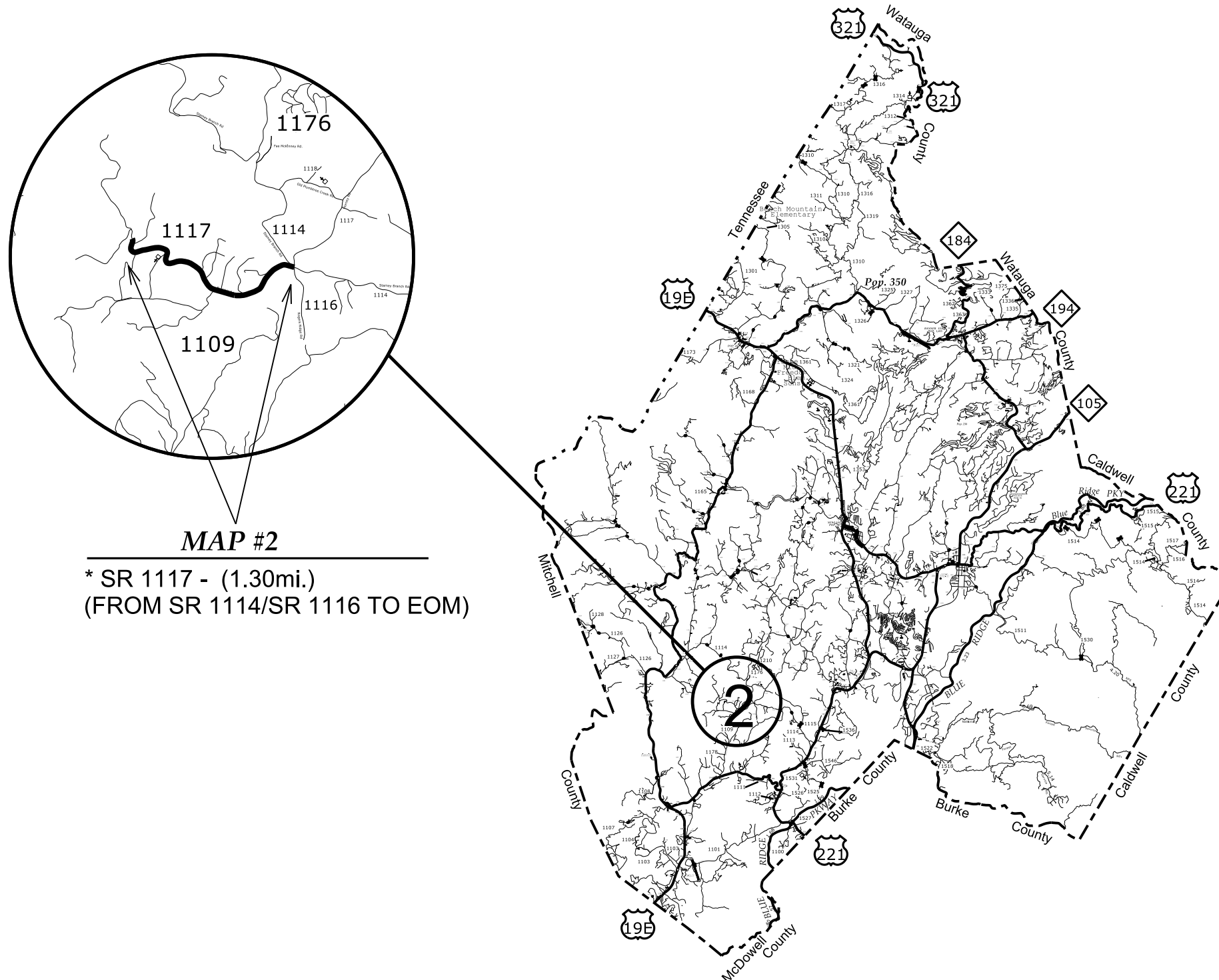
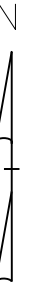
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AVERY COUNTY

TYPE OF WORK: ASPHALT RESURFACING

MAP # 2

2024



MAP #2

* SR 1117 - (1.30mi.)
(FROM SR 1114/SR 1116 TO EOM)

PROJECT NO.	SHEET NO.
DK00377	5

SUMMARY OF QUANTITIES

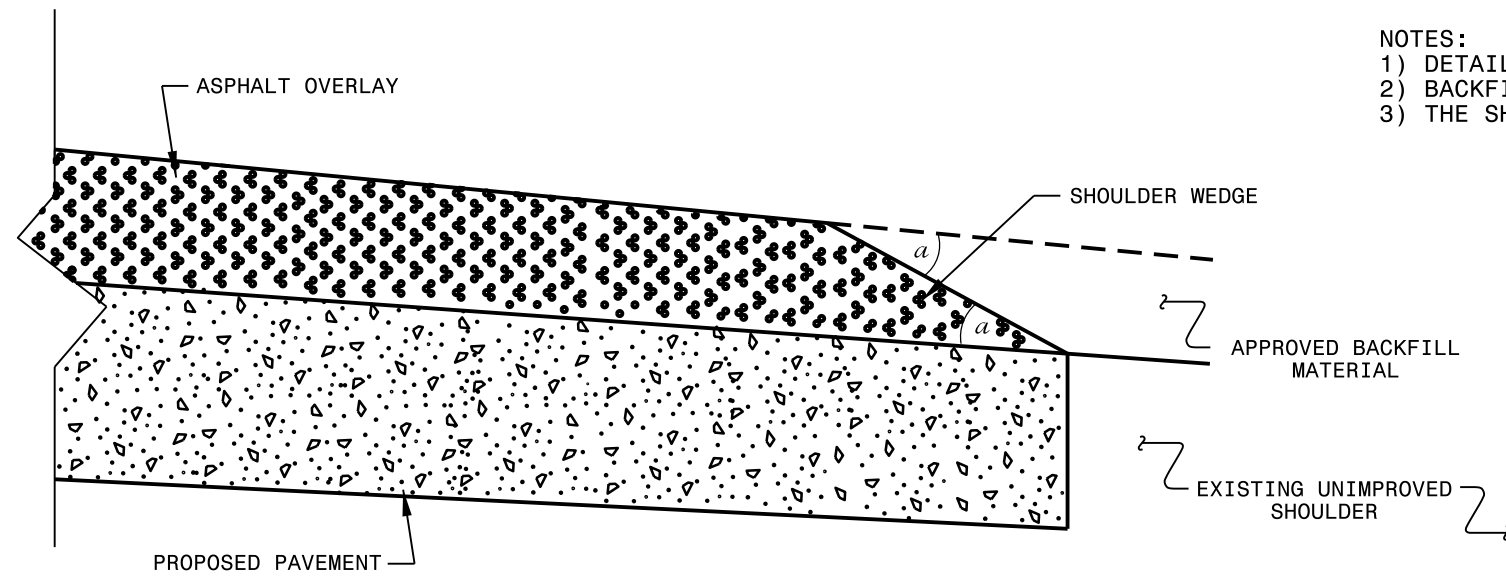
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH		BEGIN MP	END MP	1220000000-E	1245000000-E	1260000000-E	1330000000-E	1519000000-E	1520000000-E	1575000000-E	1704000000-E	1775500000-E	1838000000-E	
								INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION			AGGREGATE SHOULDER BORROW	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	LEVELING COURSE, TYPE S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MAT COAT #78	EMULSION FOR ASPHALT SURFACE TREATMENT			
								MI	FT													
								TONS	SMI	TON	SY	TONS	TON	TON	TONS	SY	GAL					
2024CPT.11.05.20061	Avery	1	SR-1117 (SPANISH OAK ROAD)	FROM SR 1153 TO SR 1138	1	2	2WU	0.28	18	3.22	3.50	6	0.56	154	100	282		20	40			
2024CPT.11.05.20061	Avery	2	SR-1117 (BUCK HILL ROAD)	FROM SR 1114/SR 1116 TO EOM	2	2	2WU	1.30	17	6.79	8.09	26	2.60	715	20	1,239	717	127				
2024CPT.11.05.20061	Avery	3	SR-1121 (SQUIRREL CREEK ROAD)	FROM SR 1138 TO US 19E	2, 3	2	2WU	0.47	18	2.18	2.65	9	0.94	259	500	474		34	60			
2024CPT.11.05.20061	Avery	4	SR-1138 (SQUIRREL CREEK ROAD)	FROM SR 1121 TO SR 1117	1, 3	2	2WU	3.21	18	0.00	3.21	64	6.42	1,766	1,160	3,238		226	326	37,287	11,186	
2024CPT.11.05.20061	Avery	5	SR-1143 (MOUNT PLEASANT ROAD)	FROM US 221 TO SR 1117/SR 1154	1	2	2WU	2.47	18	0.00	2.47	49	4.94	1,359	200	2,492		194	658	28,575	8,573	
2024CPT.11.05.20061	Avery	6	SR-1153 (SPANISH OAK ROAD)	FROM SR 1154 TO SR 1117	2	2	2WU	0.35	20	1.97	2.32	7	0.70	193	111	392		28	42			
2024CPT.11.05.20061	Avery	7	SR-1154 (TRIM BRANCH ROAD)	FROM SR 1153 TO SR 1117/SR 1143	2	2	2WU	1.08	18	0.00	1.08	22	2.16	594	200	1,042	472	98				
TOTAL FOR PROJ NO. 2024CPT.11.05.20061										9.16		183	18.32	5,040	2,291	9,159	1,189	727	1,126	69,114	20,734	
GRAND TOTAL										9.16		183	18.32	5,040	2,291	9,159	1,189	727	1,126	69,114	20,734	

[GOINC Milepost Map](#)

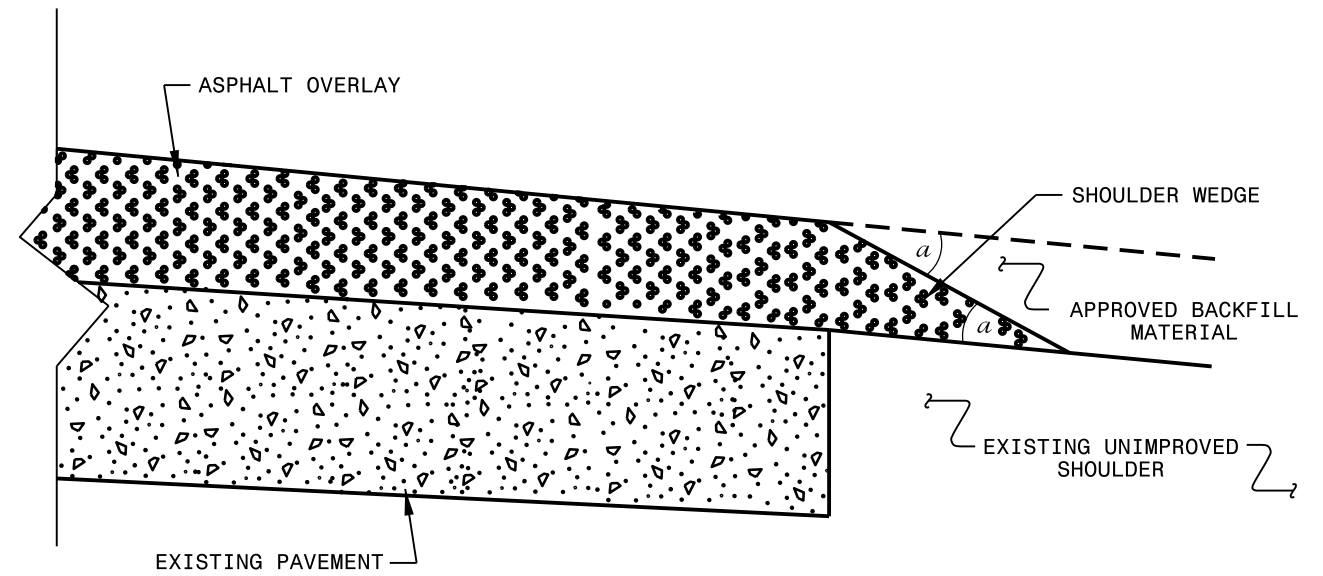
												PROJECT NO.	SHEET NO.
												DK000377	6
THERMOPLASTIC AND PAINT QUANTITIES													
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4890000000-E
								MI	FT			WORK ZONE ADVANCE/GENERAL WARNING SIGNING	GENERIC MARKING ITEM, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES 4", 55 MIL
								SF	LF				
2024CPT.11.05.20061	Avery	1	SR-1117 (SPANISH OAK ROAD)	FROM SR 1153 TO SR 1138	1	2	2WU	0.28	18	3.22	3.50	36	6,026
2024CPT.11.05.20061	Avery	2	SR-1117 (BUCK HILL ROAD)	FROM SR 1114/SR 1116 TO EOM	2	2	2WU	1.30	17	6.79	8.09	169	27,976
2024CPT.11.05.20061	Avery	3	SR-1121 (SQUIRREL CREEK ROAD)	FROM SR 1138 TO US 19E	2, 3	2	2WU	0.47	18	2.18	2.65	61	10,114
2024CPT.11.05.20061	Avery	4	SR-1138 (SQUIRREL CREEK ROAD)	FROM SR 1121 TO SR 1117	1, 3	2	2WU	3.21	18	0.00	3.21	417	69,079
2024CPT.11.05.20061	Avery	5	SR-1143 (MOUNT PLEASANT ROAD)	FROM US 221 TO SR 1117/SR 1154	1	2	2WU	2.47	18	0.00	2.47	321	53,154
2024CPT.11.05.20061	Avery	6	SR-1153 (SPANISH OAK ROAD)	FROM SR 1154 TO SR 1117	2	2	2WU	0.35	20	1.97	2.32	46	7,532
2024CPT.11.05.20061	Avery	7	SR-1154 (TRIM BRANCH ROAD)	FROM SR 1153 TO SR 1117/SR 1143	2	2	2WU	1.08	18	0.00	1.08	140	23,242
TOTAL FOR PROJ NO. 2024CPT.11.05.20061								9.16				1,190	197,123
GRAND TOTAL								9.16				1,190	197,123

[GOINC Milepost Map](#)

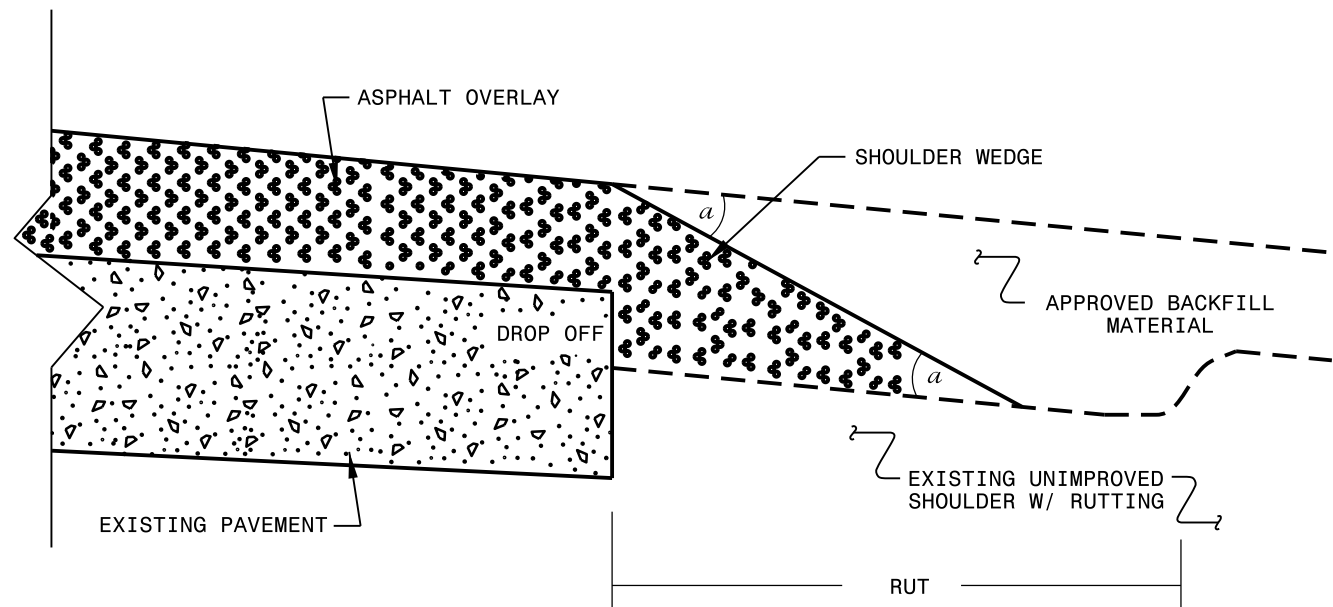
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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)

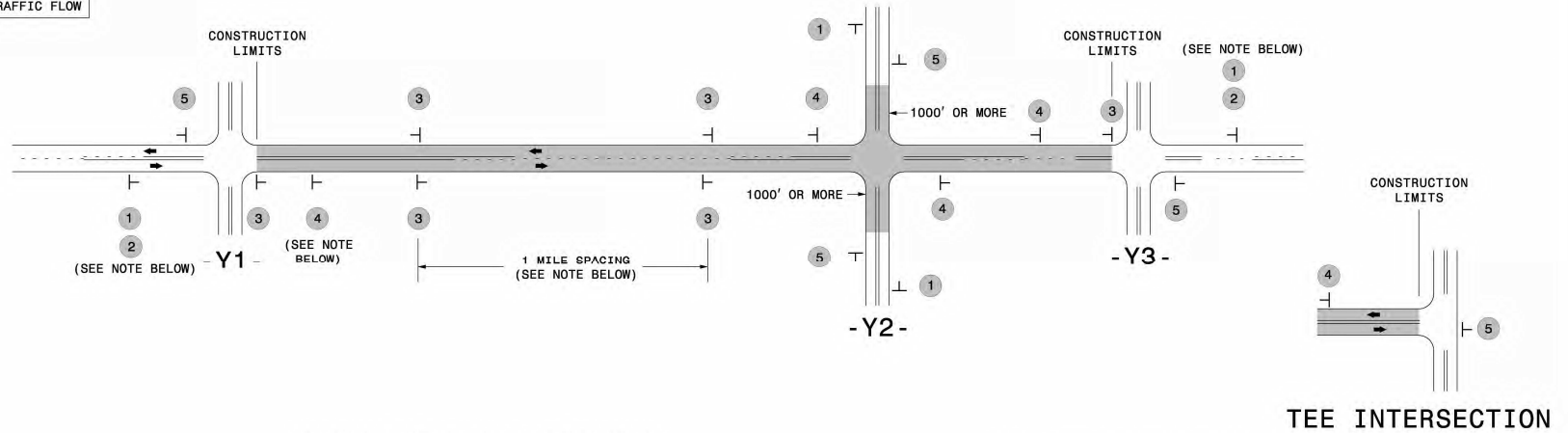
- SHOULDER WEDGE ANGLE = 30°

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: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN
 USER NAME

SIGNING FOR RESURFACING PROJECTS

LEGEND
 STATIONARY SIGN
 DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	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.	
	2	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN CONSTRUCTION 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 SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.				
MAPS LESS THAN 2 MILES	FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNING SIGNS.			

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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

W20-1
48" X 48"
 PLACED 500' IN ADVANCE OF FLAGGER.

W20-7 A
48" X 48"
 PLACED 250' IN ADVANCE OF FLAGGER.



**ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY
RESURFACING**