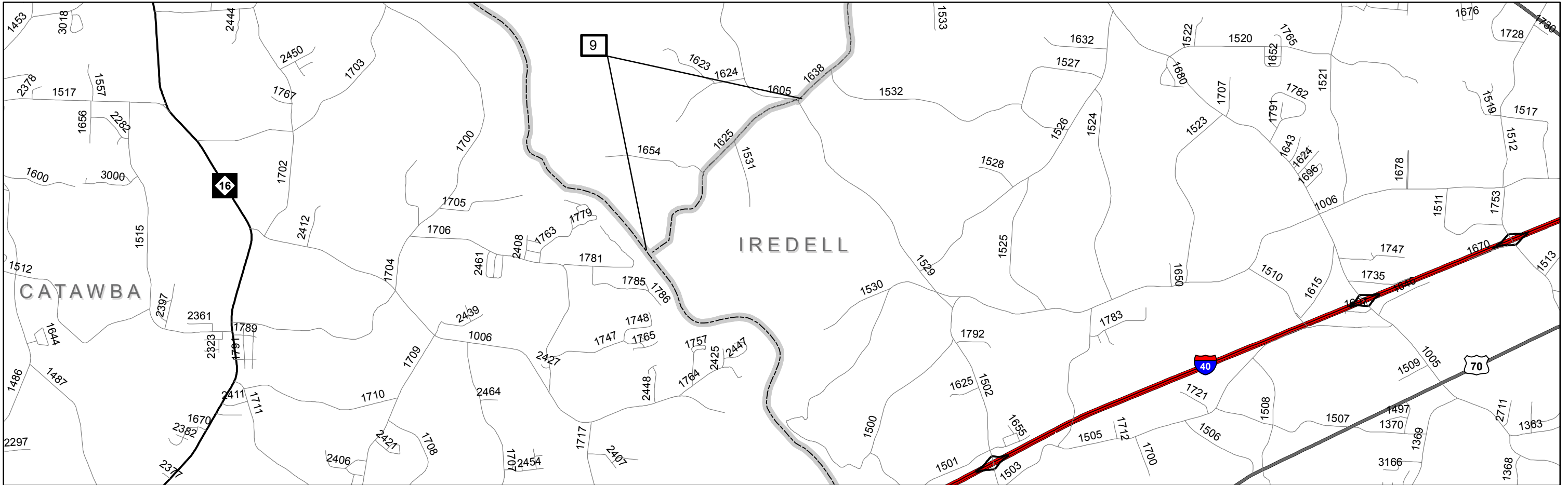
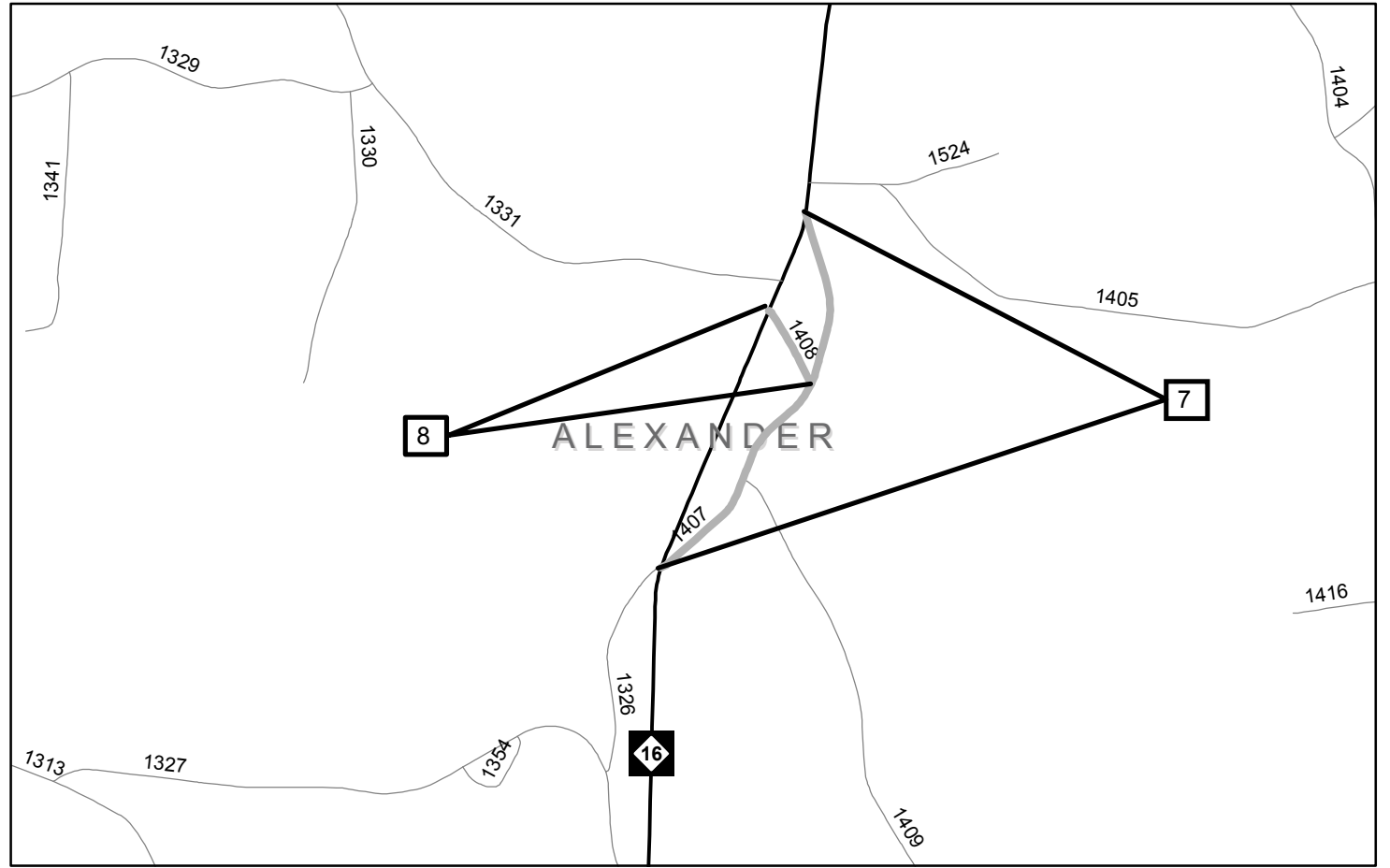
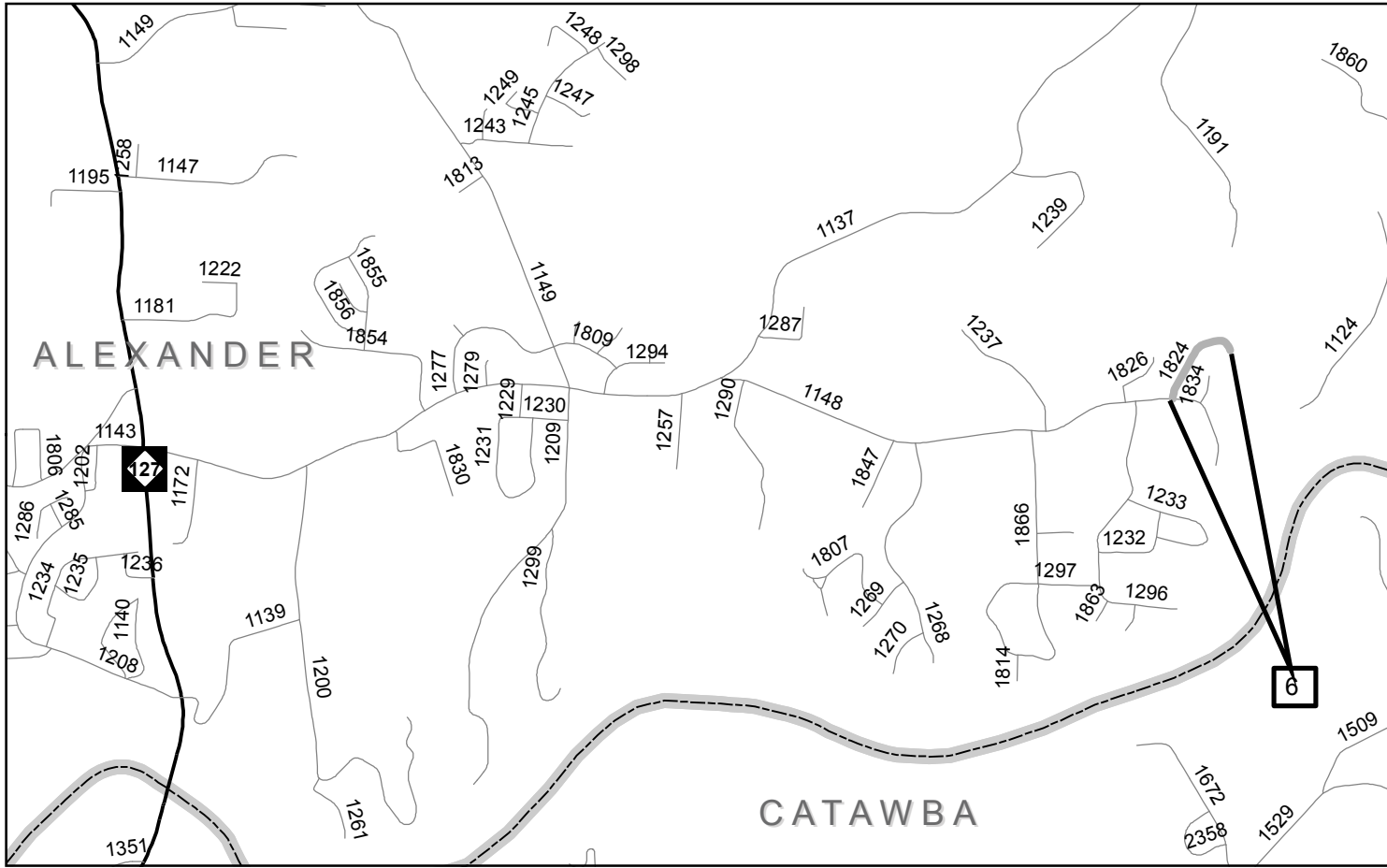


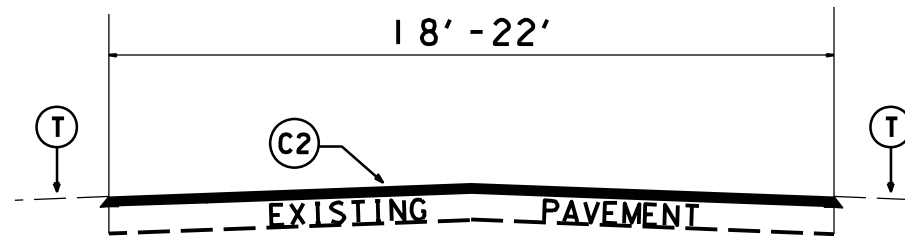
**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

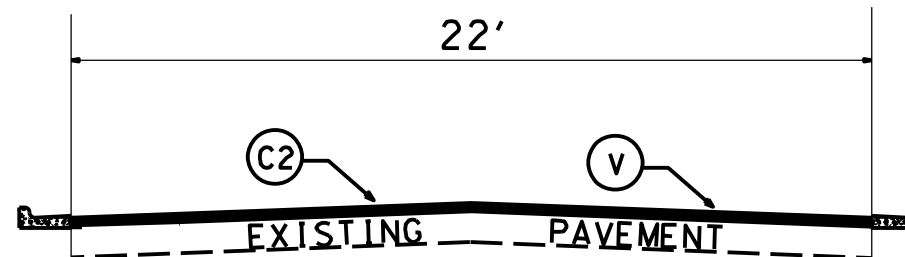


PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY		
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2018CPT. 12. 03. 20021		SECONDARY RESURFACING



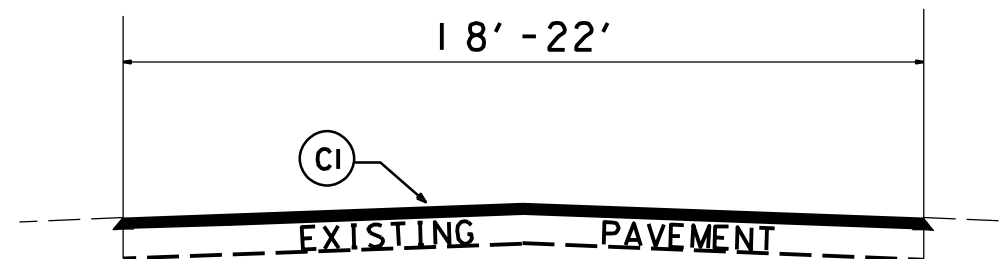
TYPICAL SECTION NO.1

Maps 2, 3, 4, 5,
7, 8, 10



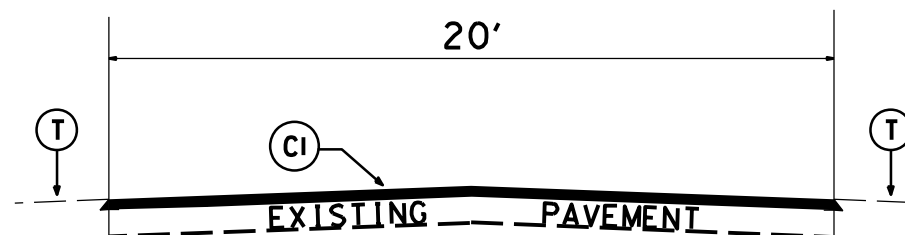
TYPICAL SECTION NO.2

Map 6



TYPICAL SECTION NO.3

Maps 1, 11



TYPICAL SECTION NO.4

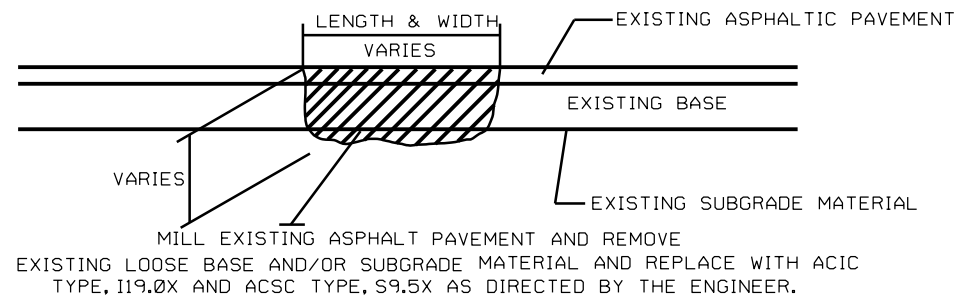
Map 9

2018 - 2019
Resurfacing Program
Typical Sections
Alexander County

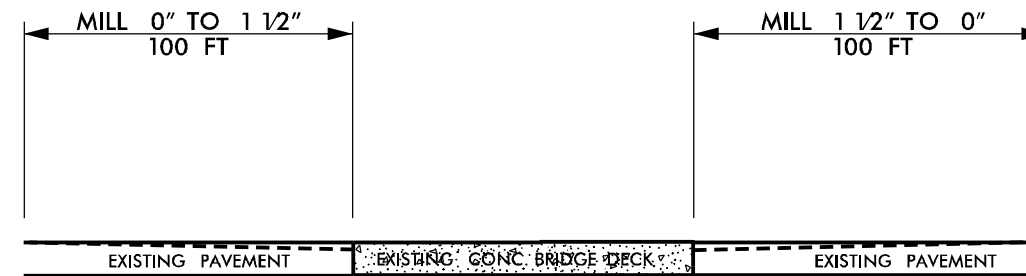
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
V	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY		
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2018CPT. 12.03.20021		SECONDARY RESURFACING

DETAIL A
PATCHING EXISTING PAVEMENT

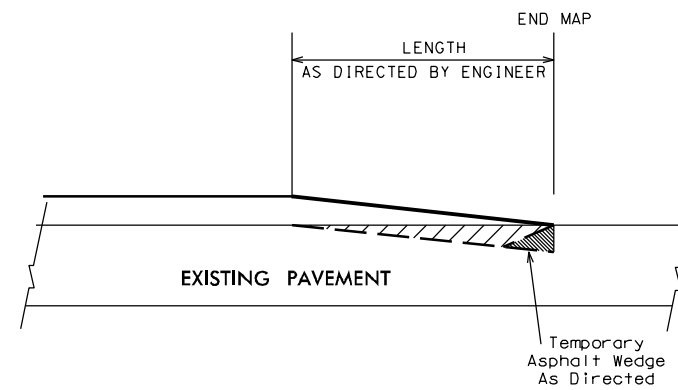
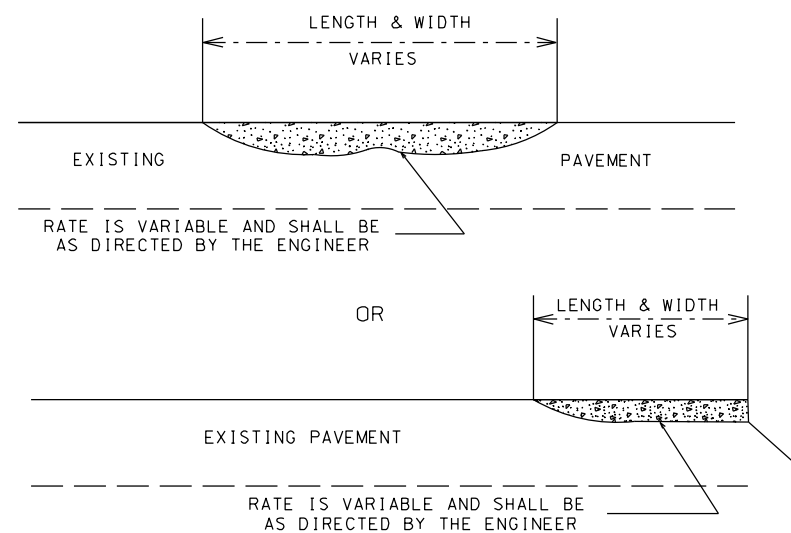


DETAIL C
MILLING BRIDGE APPROACHES

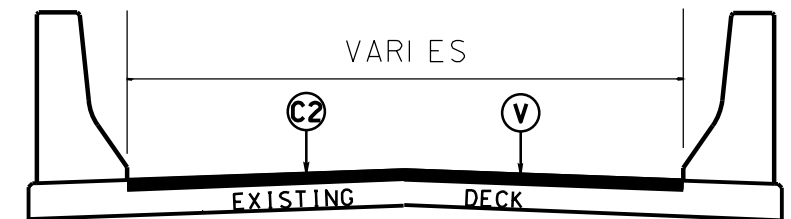


DETAIL B

ASPHALT CONCRETE SURFACE COURSE
TYPE S9.5X (LEVELING COURSE)

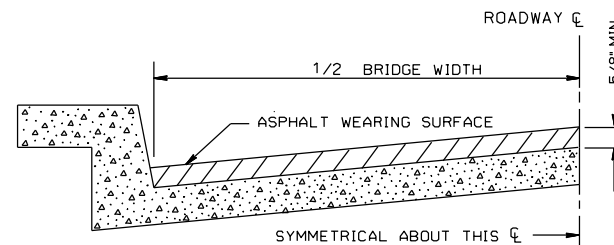


TIE-IN (INCIDENTAL) MILLING DETAIL



ASPHALT BRIDGE SECTION
Use for all asphalt bridges

DETAIL E
BRIDGE HALF TYPICAL SECTION



FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

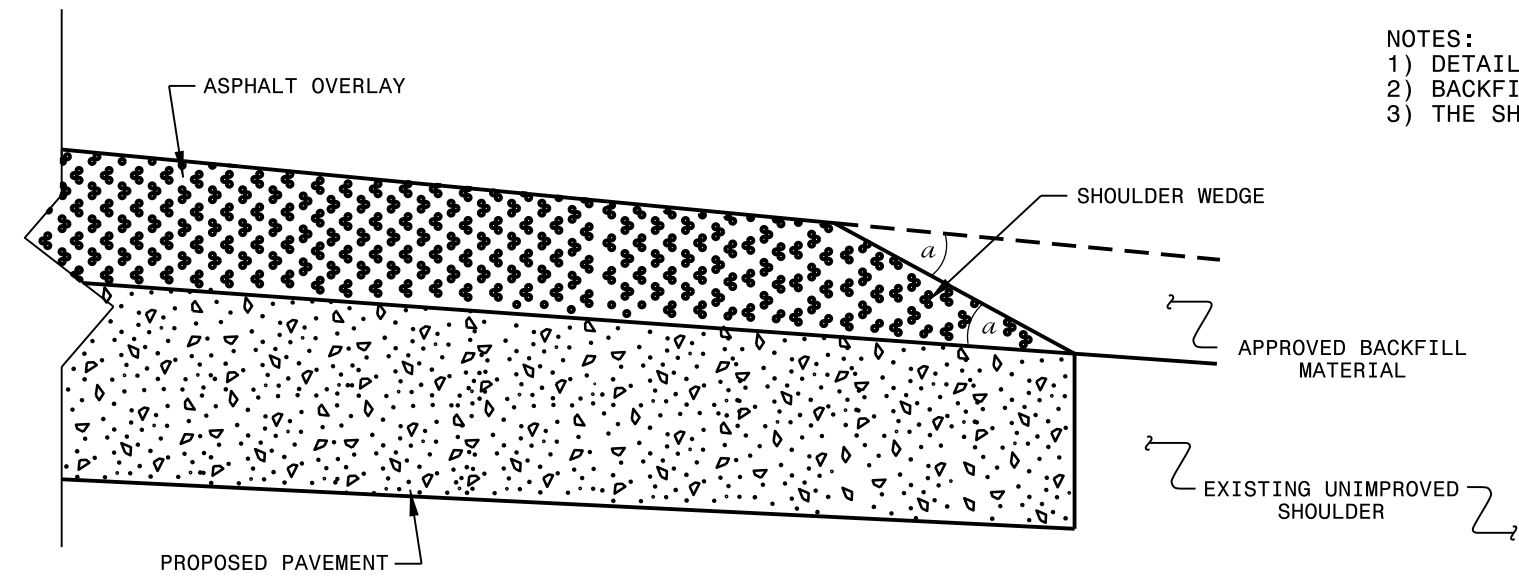
ALL UNPAVED S.R. ROADS TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADIUS, OR AS DIRECTED BY THE ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE NOTED.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

PAVEMENT SCHEDULE

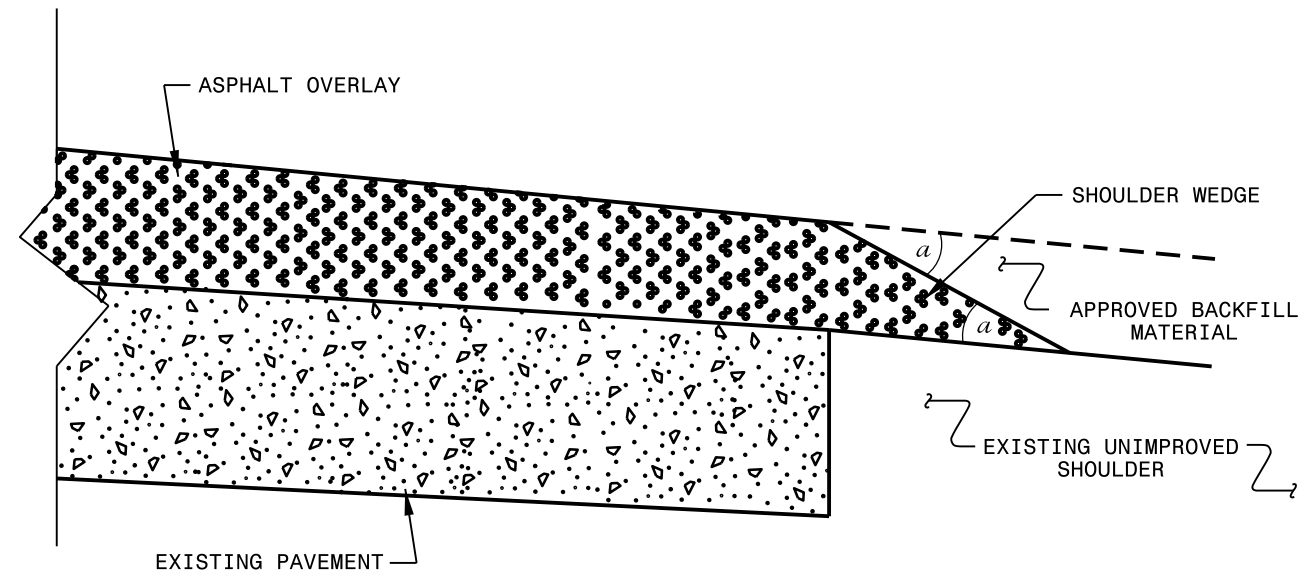
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
V	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH

2018 - 2019
Resurfacing Program
Typical Sections
Alexander County

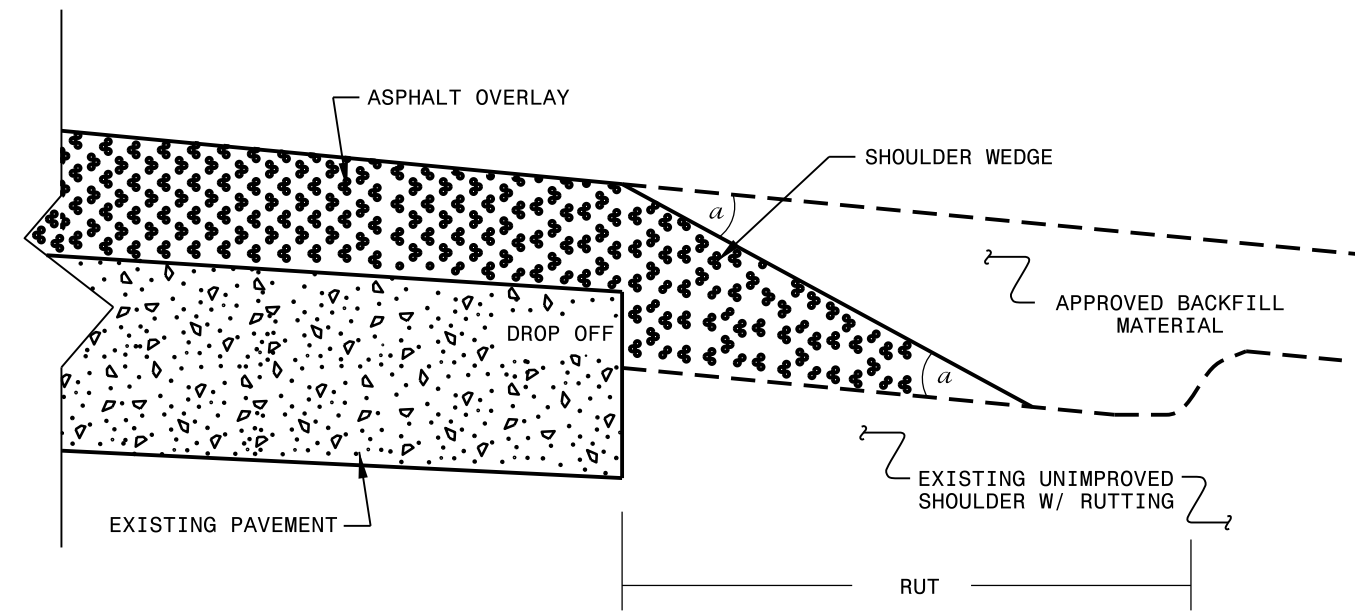
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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

PROJECT NO.	SHEET NO.
2018CPT.12.03.20021	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH		0255000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1519000000-E	1520000000-E	1525000000-E	1525100000-E	1575000000-E	1704000000-E	2845000000-N
										MI	FT	TON	TONS	SMI	SY	SY	TONS	TONS	TONS	TON	TONS	TONS	EA
2018CPT.12.03.20021	Alexander	1	SR 1640 (WALT JOLLY RD.)	FROM SR 1610 (MILLERSVILLE RD.) TO DEAD END	3	2		NO	NO	0.11	22		10						130		9	100	
2018CPT.12.03.20021	Alexander	2	SR 1120 (SIPE RD.)	FROM SR 1124 (CHURCH RD.) TO SR 1110 (LILIDOUN RD.)	1	2		NO	NO	2.08	20	375	105	4.16		120	2,255	1,350			223	100	
2018CPT.12.03.20021	Alexander	3	SR 1121 (HERMAN RD.)	FROM NC 90 TO SR 1120 (SIPE RD.)	1	2		NO	NO	1.2	19	225	60	2.40		460	1,250	750			124	50	
2018CPT.12.03.20021	Alexander	4	SR 1282 (ALEXANDER ACRES DR.)	FROM SR 1819 (HENRY ROSE RD.) TO DEAD END	1	2		NO	NO	0.45	20	100	25	0.90			500	300			50	350	
2018CPT.12.03.20021	Alexander	5	SR 1819 (HENRY ROSE RD.)	FROM SR 1110 (LILEDOUN RD.) TO DEAD END	1	2		NO	NO	0.27	19	50	15	0.54		20	285	50			20	25	
2018CPT.12.03.20021	Alexander	6	SR 1824 (ISWA DR.)	FROM SR 1148 (RIVER HILLS CT) TO DEAD END	2	2		NO	NO	0.25	22		15		3,500		300	50			21	50	
2018CPT.12.03.20021	Alexander	7	SR 1407 (OLD WILKESBORO ROAD EXT.)	FROM NC 16 TO NC 16	1	2		NO	NO	0.92	21	175	50	1.84		80	1,050	150			73	200	1
2018CPT.12.03.20021	Alexander	8	SR 1408 (SHADE TREE RD.)	FROM NC 16 TO SR 1407 (OLD WILKESBORO ROAD EXT.)	1	2		NO	NO	0.19	20	50	10	0.38		40	210	125			21	50	
2018CPT.12.03.20021	Alexander	9	SR 1625/1654 (STEWART ROCK RD.)	FROM SR 1605 (PAUL PAYNE STORE RD.) TO TURNAROUND	4	2		NO	NO	1.98	20	375	200	3.96		100			1,750	200	129	250	
2018CPT.12.03.20021	Alexander	10	SR 1152 (BLANKESHIP RD.)	FROM SR 1150 (TEAGUE TOWN RD.) TO SR 1153 (DEVIL TRACK RD.)	1	2		NO	NO	1.71	20	325	90	3.42		40	1,900	1,125			187	150	
2018CPT.12.03.20021	Alexander	11	SR 1688 (PATRICK DR.)	FROM SR 1606 (CROUCH RD.) TO DEAD END	3	2		NO	NO	0.16	18		10						165	50	14	50	
TOTAL FOR PROJ NO. 2018CPT.12.03.20021										9.32		1,675	590	17.60	3,500	860	7,750	3,900	2,045	250	871	1,375	1
GRAND TOTAL										9.32		1,675	590	17.60	3,500	860	7,750	3,900	2,045	250	871	1,375	1

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH		4413000000-E	4457000000-N	4810000000-E	4810000000-E		
								MI	FT	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" WHITE PAINT	4" YELLOW PAINT		
								SF	LS	LF	LF				
2018CPT.12.03.20021	Alexander	1	SR 1640 (WALT JOLLY RD.)	FROM SR 1610 (MILLERSVILLE RD.) TO DEAD END	3	2		0.11	22	25	*				
2018CPT.12.03.20021	Alexander	2	SR 1120 (SIPE RD.)	FROM SR 1124 (CHURCH RD.) TO SR 1110 (LILIDOUN RD.)	1	2		2.08	20	250	*	44,800	44,800		
2018CPT.12.03.20021	Alexander	3	SR 1121 (HERMAN RD.)	FROM NC 90 TO SR 1120 (SIPE RD.)	1	2		1.2	19	150	*	26,000	26,000		
2018CPT.12.03.20021	Alexander	4	SR 1282 (ALEXANDER ACRES DR.)	FROM SR 1819 (HENRY ROSE RD.) TO DEAD END	1	2		0.45	20	50	*	9,750	9,750		
2018CPT.12.03.20021	Alexander	5	SR 1819 (HENRY ROSE RD.)	FROM SR 1110 (LILEDOUN RD.) TO DEAD END	1	2		0.27	19	50	*	5,810	5,810		
2018CPT.12.03.20021	Alexander	6	SR 1824 (ISWA DR.)	FROM SR 1148 (RIVER HILLS CT) TO DEAD END	2	2		0.25	22	50	*				
2018CPT.12.03.20021	Alexander	7	SR 1407 (OLD WILKESBORO ROAD EXT.)	FROM NC 16 TO NC 16	1	2		0.92	21	125	*	19,800	19,800		
2018CPT.12.03.20021	Alexander	8	SR 1408 (SHADE TREE RD.)	FROM NC 16 TO SR 1407 (OLD WILKESBORO ROAD EXT.)	1	2		0.19	20	25	*	4,200	4,200		
2018CPT.12.03.20021	Alexander	9	SR 1625/1654 (STEWART ROCK RD.)	FROM SR 1605 (PAUL PAYNE STORE RD.) TO TURNAROUND	4	2		1.98	20	250	*	40,000	40,000		
2018CPT.12.03.20021	Alexander	10	SR 1152 (BLANKESHIP RD.)	FROM SR 1150 (TEAGUE TOWN RD.) TO SR 1153 (DEVIL TRACK RD.)	1	2		1.71	20	200	*	36,800	36,800		
2018CPT.12.03.20021	Alexander	11	SR 1688 (PATRICK DR.)	FROM SR 1606 (CROUCH RD.) TO DEAD END	3	2		0.16	18	25	*				
TOTAL FOR PROJ NO. 2018CPT.12.03.20021										9.32		1,200	1	187,160	187,160
GRAND TOTAL										9.32		1,200	1	374,320	