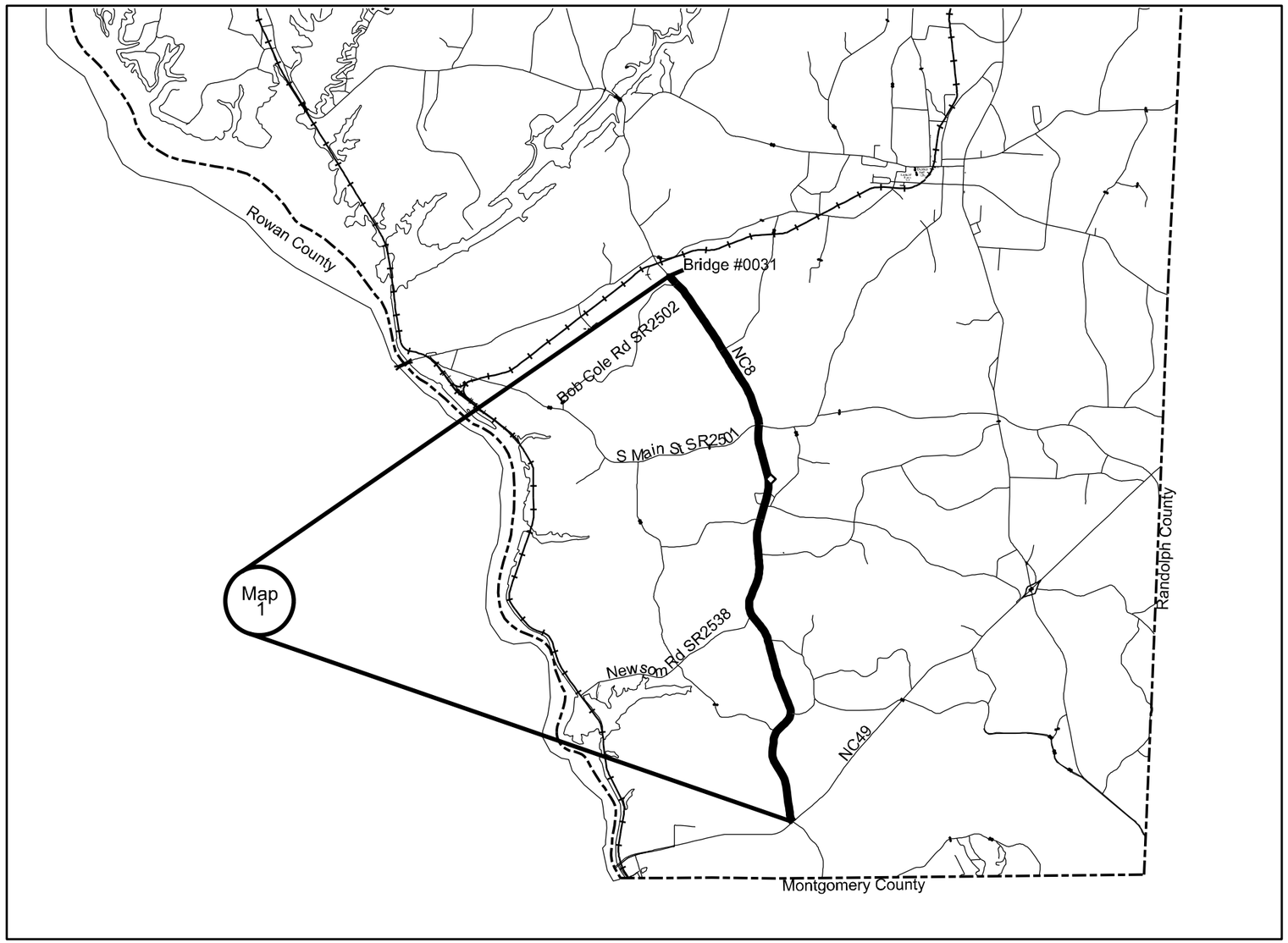
PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	1

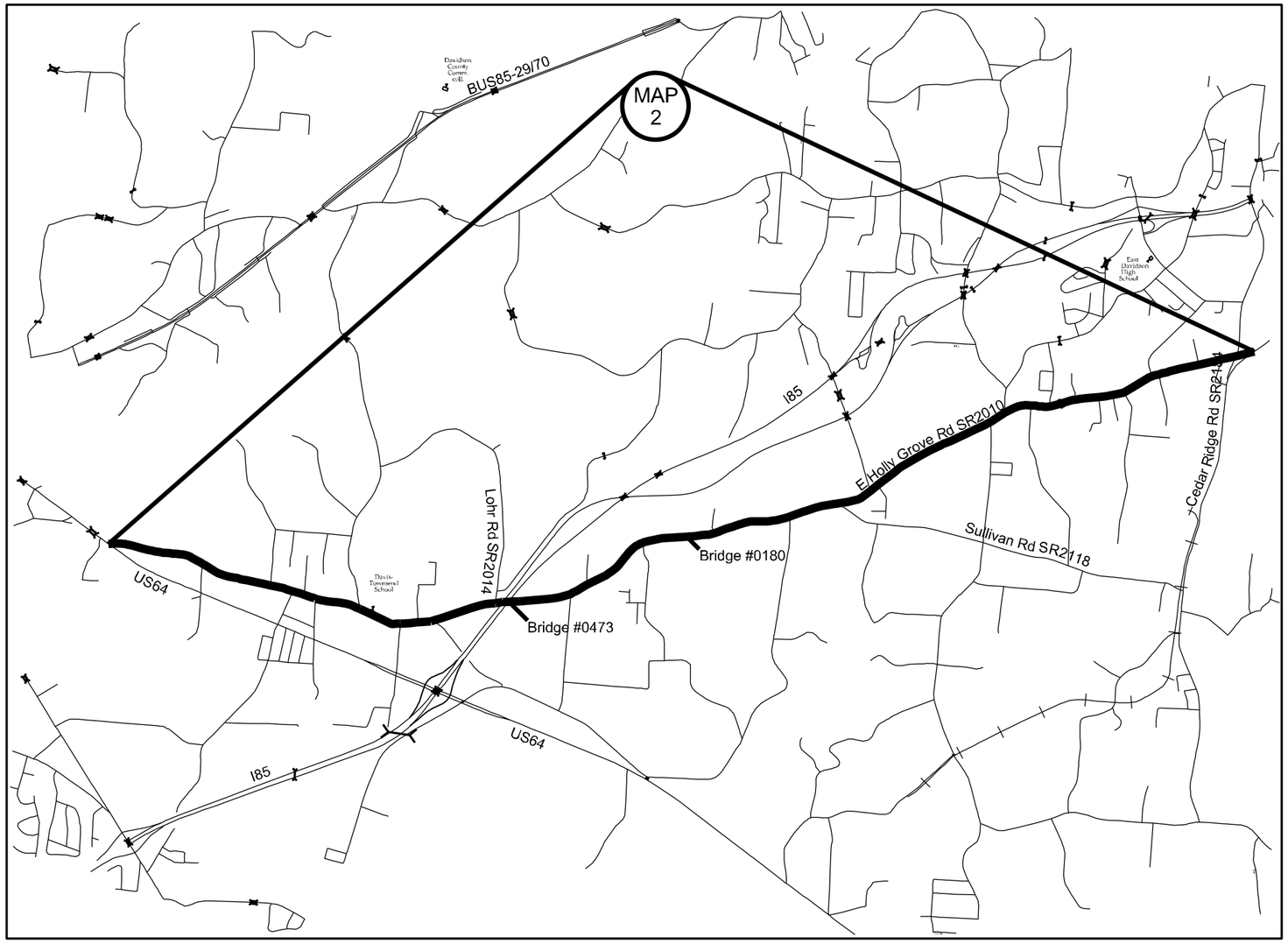


Map 1 NC8 From NC49 to pvt joint at bridge #0031
Mill 0-1 1/2 incidental mill at beginning end and at all SR intersections
Mill 5 1/2" depth, 3' width along edge of lane to key in and end with a 12' total lane width
Pave 5 1/2" B25.0C in widening
Pave 1 1/2" S9.5C

DAVIDSON COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	2

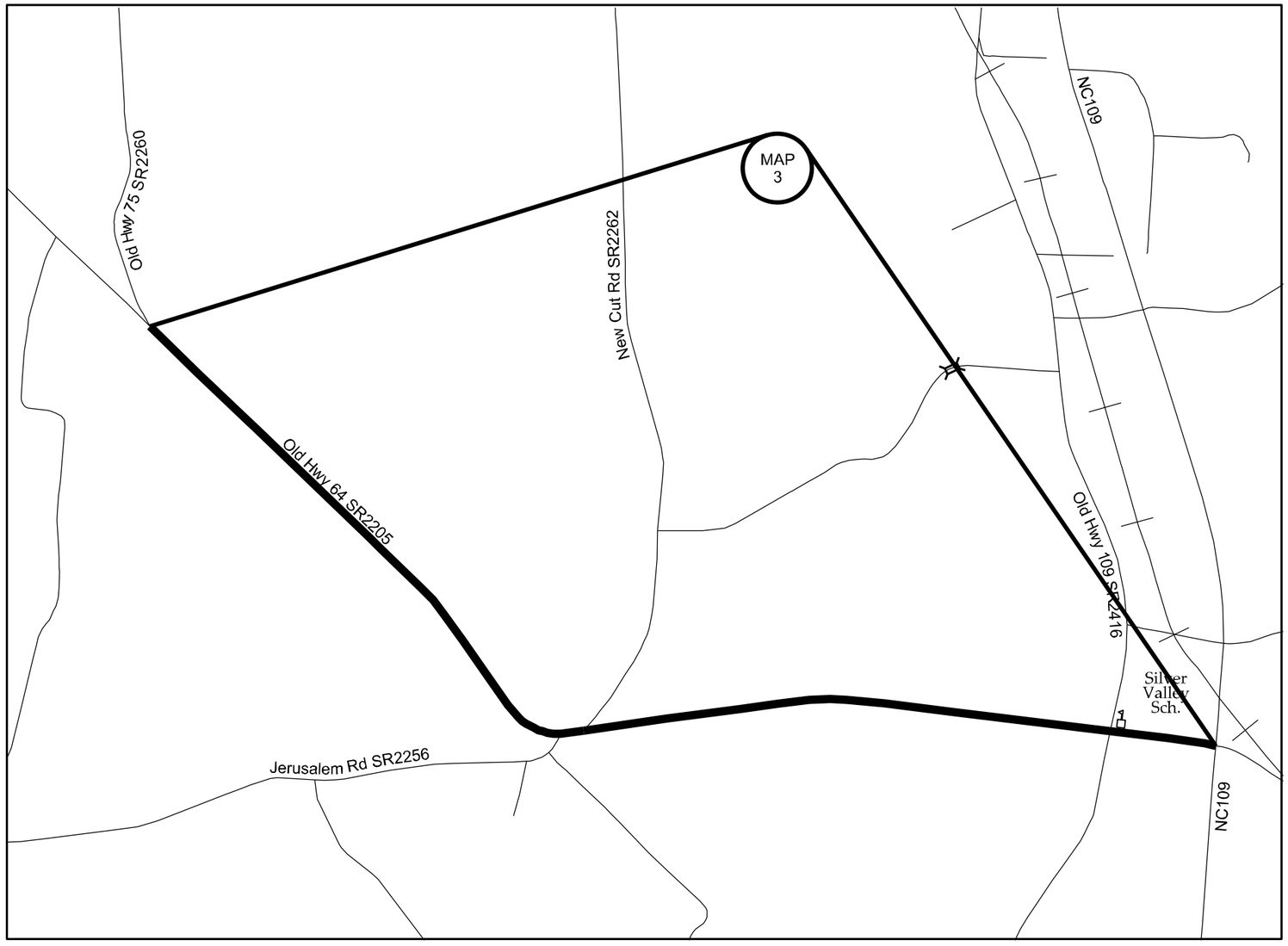


Map 2 E Holly Grove Rd SR2010 from US64 to Cedar Ridge Rd SR2184
Mill 0-1 1/2" Incidental milling beginning, end and at all SR intersections
Asphalt Surface Treatment, Matcoat, #78m stone
Pave 1 1/2" S9.5B

DAVIDSON COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	3

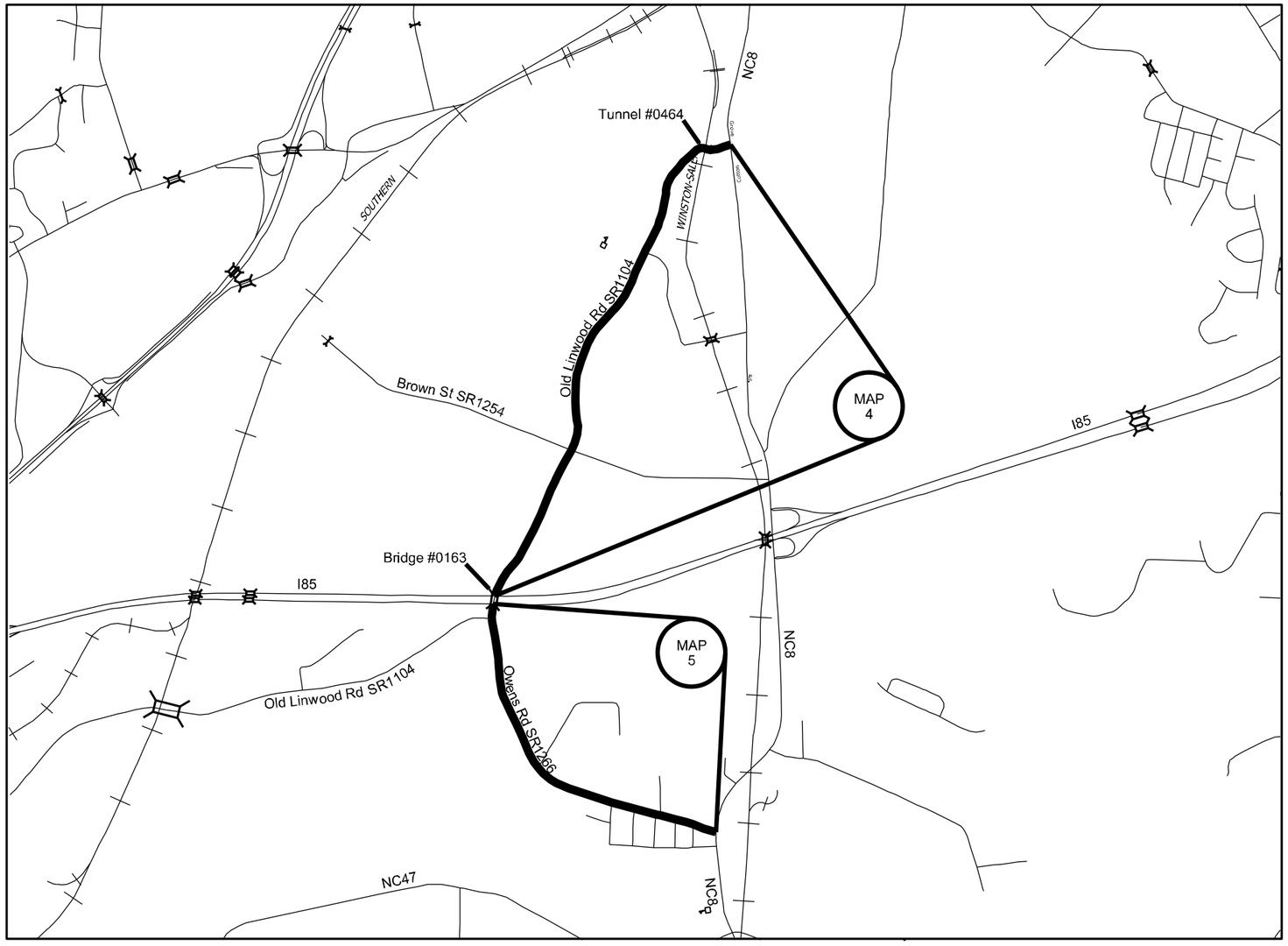


Map 3 Old Hwy 64 SR2205 From pvt joint at Old Hwy 75 SR2260 to NC 109
Mill 0-1 1/2" incidental milling beginning, end and at all SR intersections
Asphalt surface treatment, matcoat, #78m stone
Pave 1 1/2" S9.5B

DAVIDSON COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	4



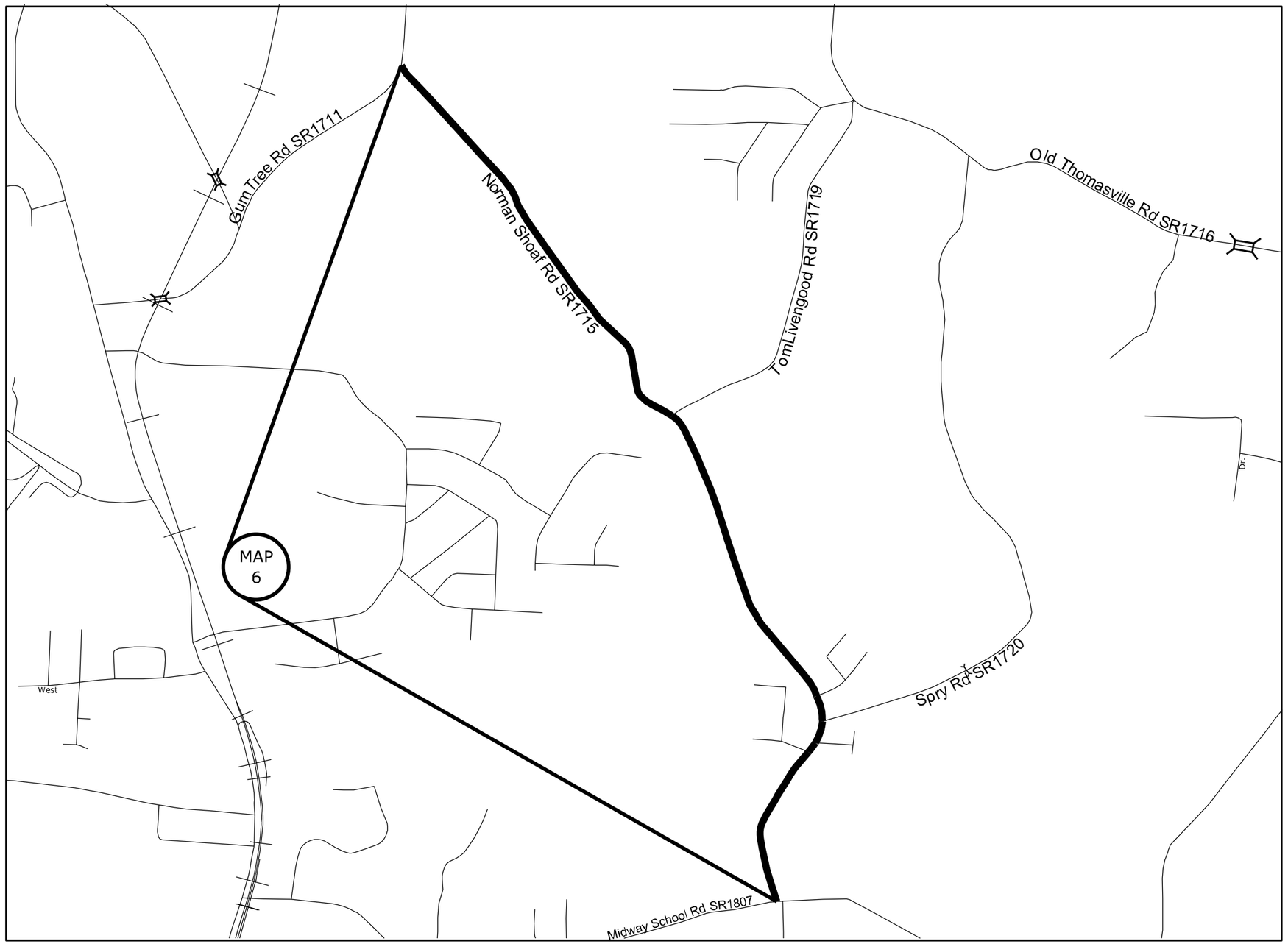
Map 4 Old Linwood Rd SR1104 from NC8 to pvt joint at bridge #0163
Mill 0-1 1/2" depth 7' width curb profile
Mill 1 1/2" depth to maintain height in tunnel
Mill 0-1 1/2" incidental milling beginning, end and at all SR intersections including tunnel approaches
Asphalt surface treatment, matcoat, #78m stone
Pave 1 1/2" S9.5B

Map 5 Owens Rd SR1266 from NC8 to pvt joint at bridge #0163
Mill 0-1 1/2" incidental milling beginning, end and at all SR intersections
Asphalt surface treament, matcoat, #78m stone
Pave 1 1/2" S9.5B

DAVIDSON COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	5

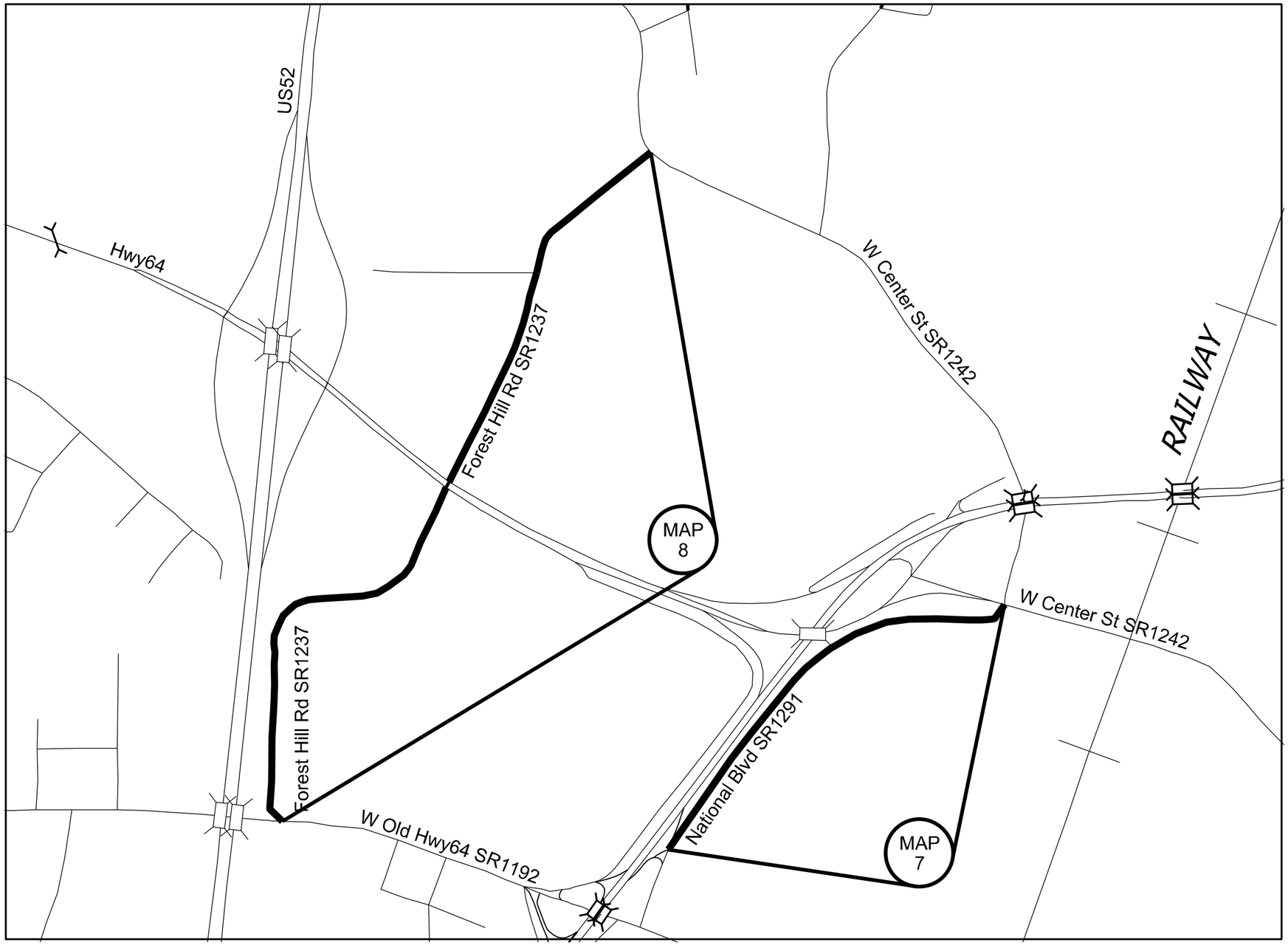


Map 6 Norman Shoaf Rd SR1715 from Gumtree Rd SR1711 to Midway School Rd SR1807
Mill 0-1 1/2" incidental milling beginning, end and at all SR intersections
Mill 5 1/2" depth 3' width keying in 2' into the existing roadway
Pave 5 1/2" B25.0C in milled widening
Pave 1 1/2" S9.5B

DAVIDSON COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	6



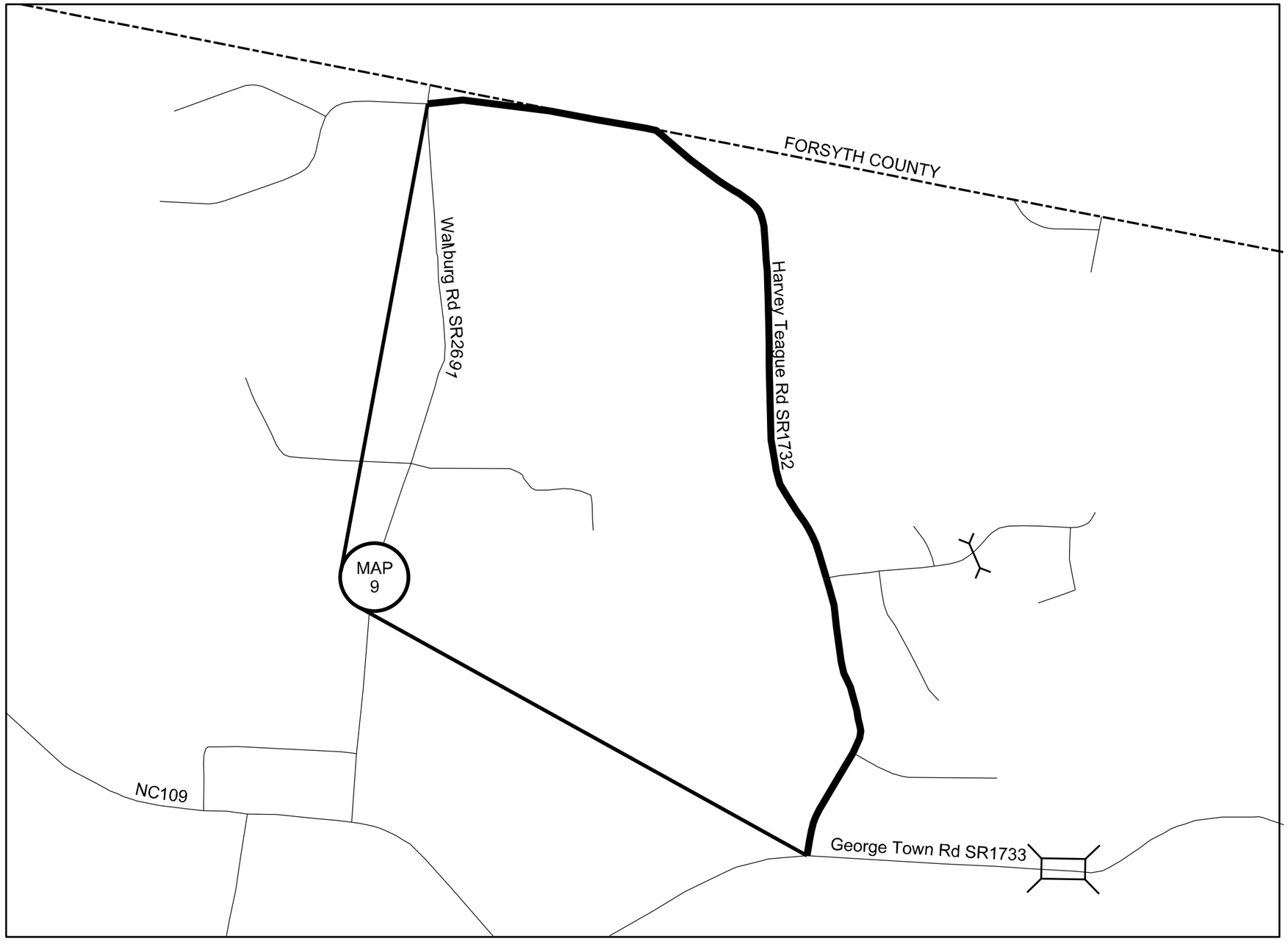
Map 7 National Blvd SR1291 from W Center ST SR1242 to pvt joint at Bus 85 Ramp
Mill 1 1/2" depth entire width
Pave 1 1/2" S9.5B

Map 8 Forest Hill Rd SR1237 from W Center St SR1242 to W Old Hwy 64 SR1192
Mill 0-1 1/2" incidental milling beginning,end and at all SR intersections
Pave 1 1/2" S9.5B

DAVIDSON COUNTY

NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	7

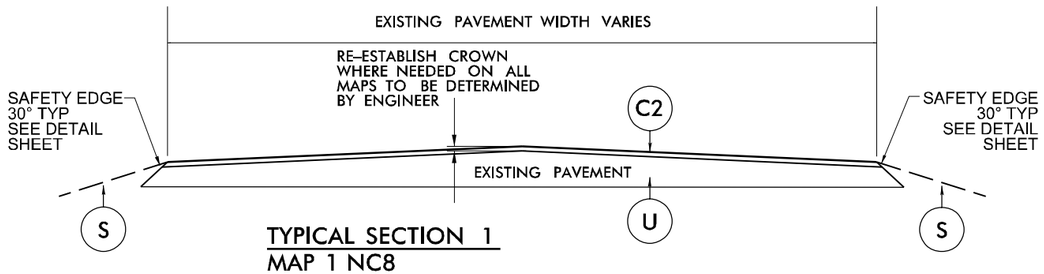


Map 9 Harvey Teague SR1732 from Wallburg Rd SR2691 to George Town Rd SR1733
Mill 0-1 1/2" incidental milling beginning, end and at all SR intersections
Asphalt surface treatment, matcoat, #78m stone
Pave 1 1/2" S9.5B

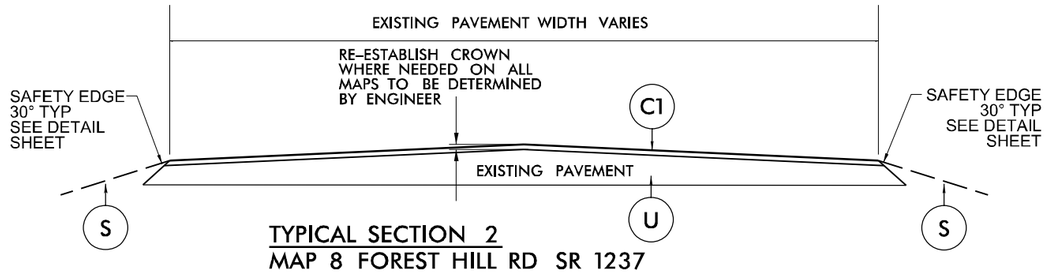
DAVIDSON COUNTY

NORTH CAROLINA

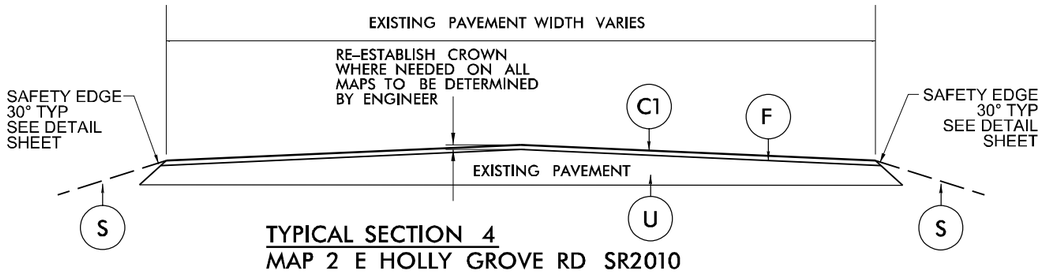
PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	8



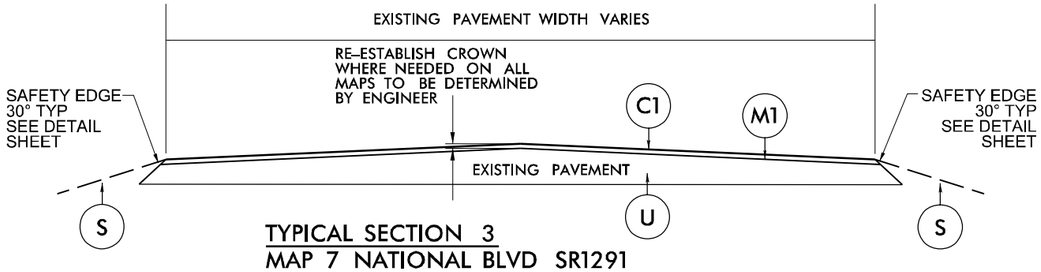
TYPICAL SECTION 1
MAP 1 NC8



TYPICAL SECTION 2
MAP 8 FOREST HILL RD SR 1237



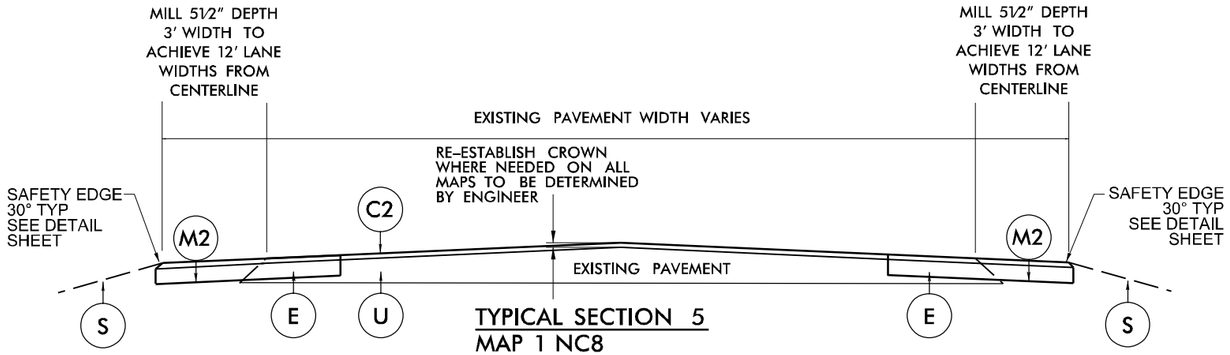
TYPICAL SECTION 4
MAP 2 E HOLLY GROVE RD SR2010
MAP 3 OLD HWY64 SR2205
MAP 4 OLD LINWOOD RD SR1104
MAP 5 OWENS RD SR1266
MAP 9 HARVEY TEAGUE RD SR1732



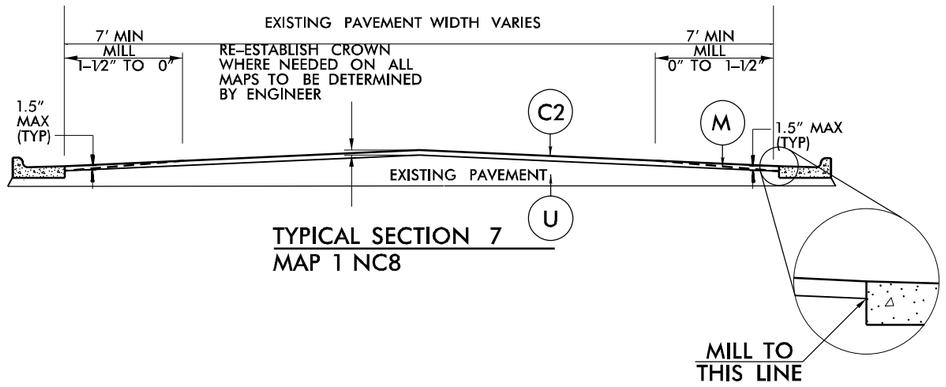
TYPICAL SECTION 3
MAP 7 NATIONAL BLVD SR1291

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
E	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, TO BE APPLIED AT AN AVERAGE RATE OF 627 LBS PER SQ YD.
F	ASPHALT SURFACE TREAMENT, MATCOAT, #78M STONE TO BE APPLIED AT AN AVERAGE RATE OF 18 LBS PER SY YD, EMULSION RATE OF 0.35 GAL PER SY YD
M	MILL ASPHALT PAVEMENT, 0–1½" DEPTH
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
M2	MILL ASPHALT PAVEMENT/SHOULDER, 5½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

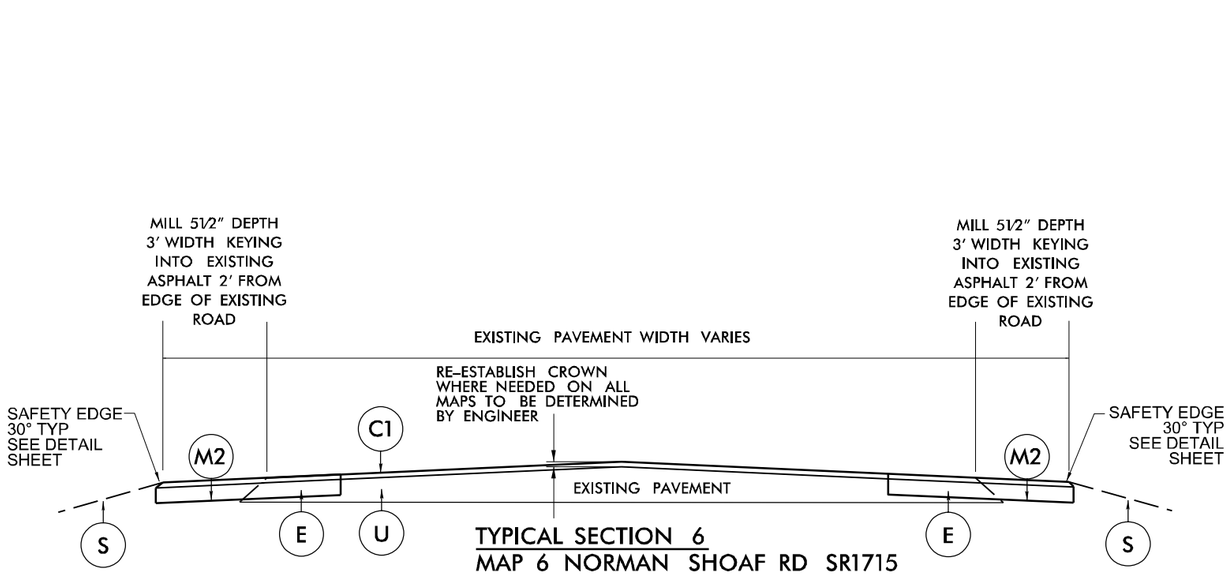
PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	9



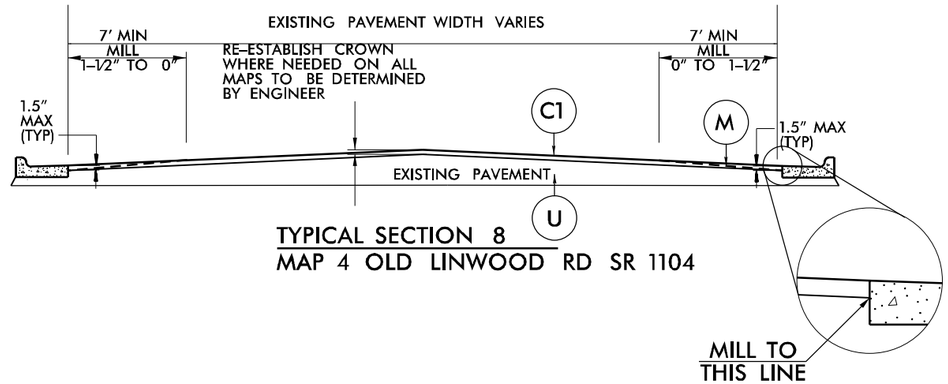
TYPICAL SECTION 5
MAP 1 NC8



TYPICAL SECTION 7
MAP 1 NC8



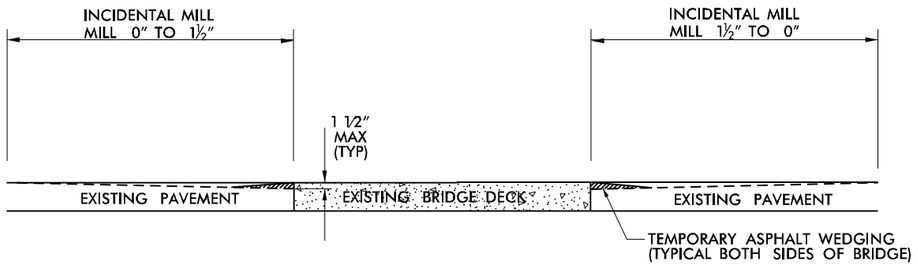
TYPICAL SECTION 6
MAP 6 NORMAN SHOAF RD SR1715



TYPICAL SECTION 8
MAP 4 OLD LINWOOD RD SR 1104

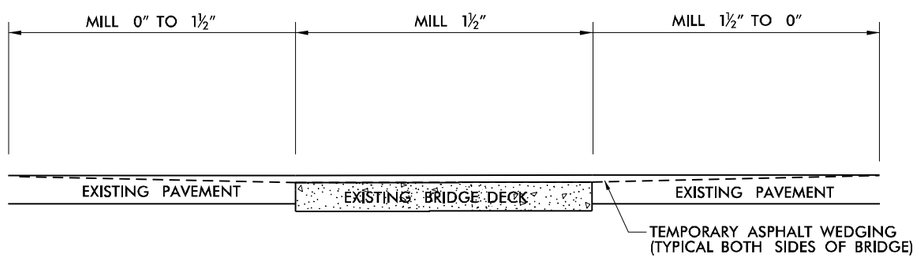
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
E	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, TO BE APPLIED AT AN AVERAGE RATE OF 627 LBS PER SQ YD.
F	ASPHALT SURFACE TREAMENT, MATCOAT, #78M STONE TO BE APPLIED AT AN AVERAGE RATE OF 18 LBS PER SY YD, EMULSION RATE OF 0.35 GAL PER SY YD
M	MILL ASPHALT PAVEMENT, 0" TO 1½"
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
M2	MILL ASPHALT PAVEMENT/SHOULDER, 5½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	10



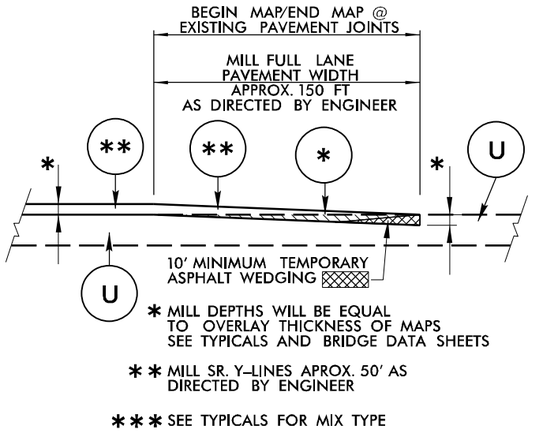
INCIDENTAL MILLING BRIDGE APPROACHES

(SEE BRIDGE DATA SHEET)

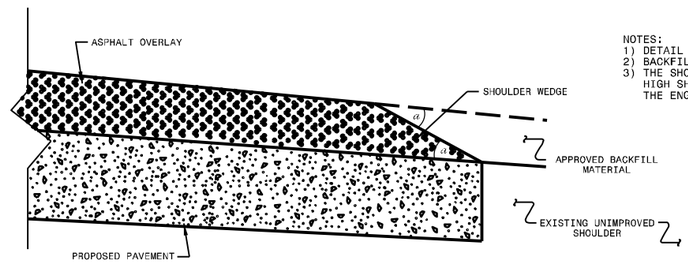


INCIDENTAL MILLING BRIDGE APPROACHES

(SEE BRIDGE DATA SHEET)



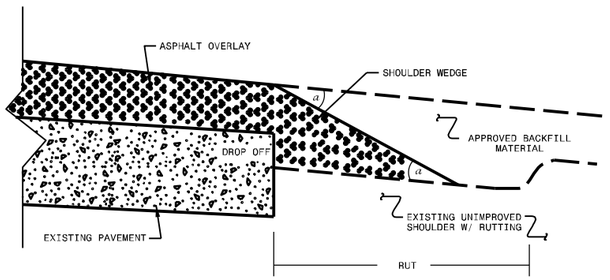
INCIDENTAL TIE–IN MILLING DETAIL



NOTES:
1) DETAIL DOES NOT APPLY TO OGAFC 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, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS DIRECTED BY THE ENGINEER.

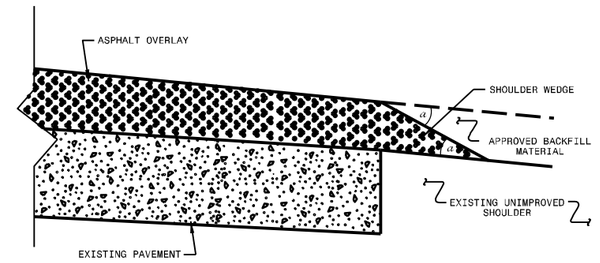
SHOULDER WEDGE DETAIL

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



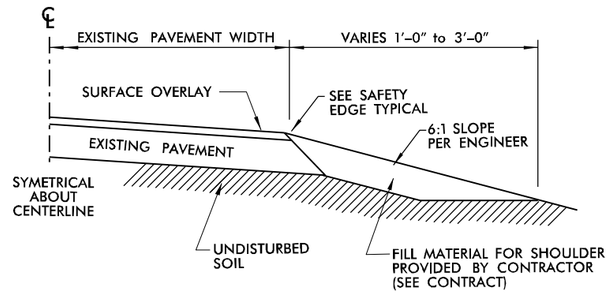
SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)



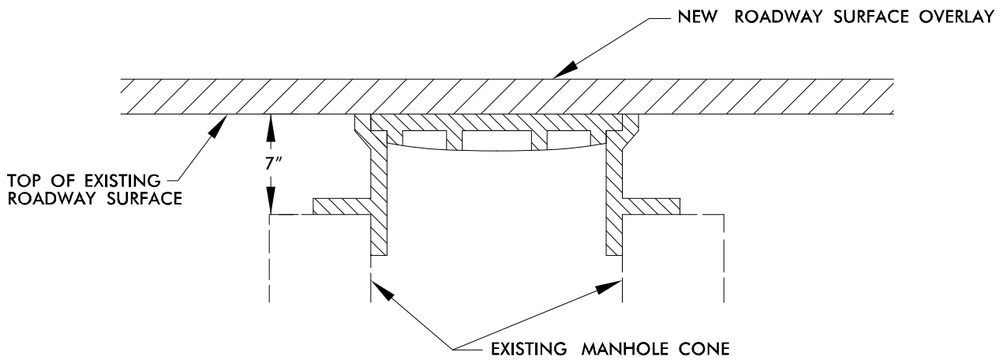
SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

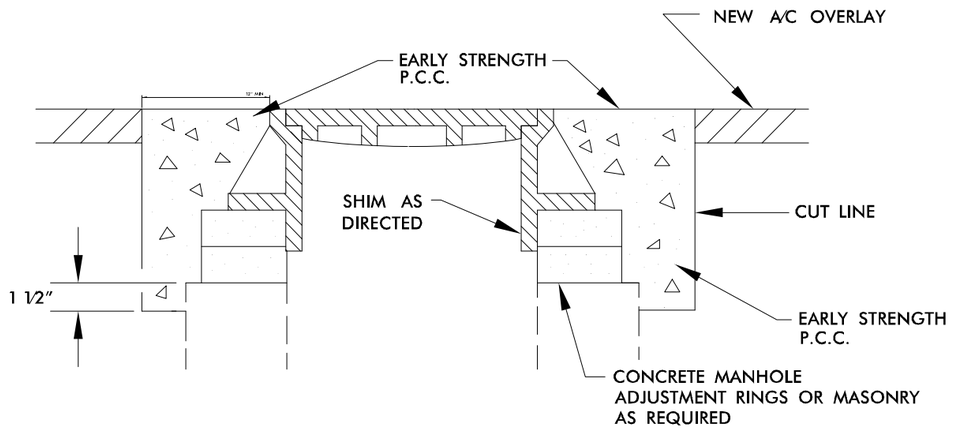


SHOULDER RECONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291 2022CPT.09.02.20291	11



STEP 1



STEPS 2,3, & 4

STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE

STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.

STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAVEMENT PROFILE AND CROSS SLOPE.

STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

MANHOLE ADJUSTMENT DETAIL

CONSTRUCTION NOTES:

1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".

2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:

   PHASE 1 – MILLING AND PATCHING (WHEN REQUIRED)
   PHASE 2 – SURFACE OVERLAY
   PHASE 3 – SHOULDER DROP–OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
   PHASE 4 – UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.) WHEN REQUIRED.

3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.

4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).

5. FOR TWO–LANE ROADWAYS – IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE. THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

6. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610–11.

7. ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.

8. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS AT ANY INTERSECTION INCLUDING Y–LINES NOT ACTUALLY BEING PAVED OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING OPERATION

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.09.01.10291	12	
2022CPT.09.02.20291		

SUMMARY OF QUANTITIES

													0106000000-E	1220000000-E	1245000000-E	1297000000-E		1308000000-E	1330000000-E	1491000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E	1775000000-E	1838000000-E	2830000000-N	2845000000-N	6000000000-E	6071010000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH		BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	MILLING ASPHALT PAVEMENT, 5 1/2"DEPTH	MILLING ASPHALT PAVEMENT, 1 1/2"DEPTH	MILLING ASPHALT PAVEMENT, 0"TO 1 1/2" DEPTH	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE
										MI	FT		CY	TONS	SMI	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	SY	GAL	EA	EA	LF	LF
2022CPT.09.01.10291	Davidson	1	NC8	FROM NC49 TO PVT JOINT AT BRIDGE #0031	1,5,7	2	2WD	NO	NO	7.386	24		886	225	14.77	26,000		331	3,820	9,904		9,891	1,039	10					2,954	295
TOTAL FOR MAP NO. 1										**7.386**			**886**	**225**	**14.77**	**26,000**		**331**	**3,820**	**9,904**		**9,891**	**1,039**	**10**					**2,954**	**295**
TOTAL FOR PROJ NO. 2022CPT.09.01.10291										**7.386**			**886**	**225**	**14.77**	**26,000**		**331**	**3,820**	**9,904**		**9,891**	**1,039**	**10**					**2,954**	**295**
2022CPT.09.02.20291	Davidson	2	SR2010 E HOLLY GROVE RD	FROM US64 TO SR2184 CEDAR LODGE RD	4	2	2WD	NO	NO	7.698	22		1,848	490	15.40				9,035		9,759		654	10	105,781	37,023		12	6,158	616
TOTAL FOR MAP NO. 2										**7.698**			**1,848**	**490**	**15.40**				**9,035**		**9,759**		**654**	**10**	**105,781**	**37,023**		**12**	**6,158**	**616**
2022CPT.09.02.20291	Davidson	3	SR2205 OLD HWY64	FROM PVT JOINT AT SR2260 OLD HWY 75 TO NC109	4	2	2WD	NO	NO	2.14	26		257	150	4.28				2,639		3,123		209	10	33,638	11,773		2	856	86
TOTAL FOR MAP NO. 3										**2.14**			**257**	**150**	**4.28**				**2,639**		**3,123**		**209**	**10**	**33,638**	**11,773**		**2**	**856**	**86**
2022CPT.09.02.20291	Davidson	4	SR1104 OLD LINWOOD RD	FROM NC8 TO PVT JOINT AT BRIDGE #0163	4,8	2	2WD	NO	NO	1.99	24		239	120	3.98		100	900	1,277		2,717		182	10	28,997	10,150	3	7	796	80
TOTAL FOR MAP NO. 4										**1.99**			**239**	**120**	**3.98**		**100**	**900**	**1,277**		**2,717**		**182**	**10**	**28,997**	**10,150**	**3**	**7**	**796**	**80**
2022CPT.09.02.20291	Davidson	5	SR1266 OWENS RD	FROM NC8 TO PVT JOINT AT BRIDGE#0163	4	2	2WD	NO	NO	1.335	24		160	65	2.67				2,185		1,832		123	10	19,733	6,907		8	534	53
TOTAL FOR MAP NO. 5										**1.335**			**160**	**65**	**2.67**				**2,185**		**1,832**		**123**	**10**	**19,733**	**6,907**		**8**	**534**	**53**
2022CPT.09.02.20291	Davidson	6	SR1715 NORMAN SHOAF RD	FROM GUMTREE RD SR1711 TO MIDWAY SCHOOL RD SR1807	6	2	2WD	NO	NO	2.418	21		290	150	4.84	8,451			1,750	3,034	2,817		325	10				3	967	97
TOTAL FOR MAP NO. 6										**2.418**			**290**	**150**	**4.84**	**8,451**			**1,750**	**3,034**	**2,817**		**325**	**10**				**3**	**967**	**97**
2022CPT.09.02.20291	Davidson	7	SR1291 NATIONAL BLVD	FROM W CENTER ST TO PVT JOINT AT BUS 85 RAMP	3	2	2WD	NO	NO	0.511	23		61	10	1.02		7,887				727		49	10				3	204	20
TOTAL FOR MAP NO. 7										**0.511**			**61**	**10**	**1.02**		**7,887**				**727**		**49**	**10**				**3**	**204**	**20**
2022CPT.09.02.20291	Davidson	8	SR1237 FOREST HILL RD	FROM W CENTER ST SR1242 TO W OLD HWY 64 SR1192	2	2	2WD	NO	NO	0.994	22		2	10	1.99				2,177		1,291		86	10				3	398	40
TOTAL FOR MAP NO. 8										**0.994**			**2**	**10**	**1.99**				**2,177**		**1,291**		**86**	**10**				**3**	**398**	**40**
2022CPT.09.02.20291	Davidson	9	SR1732 HARVEY TEAGUE RD	FROM WALLBURG RD SR2691 TO GEORGETOWN RD SR1733	4	2	2WD	NO	NO	1.435	20		172	65	2.87				1,109		1,570		105	10	17,040	5,964		1	574	57
TOTAL FOR MAP NO. 9										**1.435**			**172**	**65**	**2.87**				**1,109**		**1,570**		**105**	**10**	**17,040**	**5,964**		**1**	**574**	**57**
TOTAL FOR PROJ NO. 2022CPT.09.02.20291										**18.521**			**3,029**	**1,060**	**37.05**	**8,451**	**7,987**	**900**	**20,172**	**3,034**	**23,836**		**1,733**	**80**	**205,189**	**71,817**	**3**	**39**	**10,487**	**1,049**
GRAND TOTAL										**25.907**			**3,915**	**1,285**	**51.82**	**34,451**	**7,987**	**1,231**	**23,992**	**12,938**	**23,836**	**9,891**	**2,772**	**90**	**205,189**	**71,817**	**3**	**39**	**13,441**	**1,344**

Note: All quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities recieved

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.09.01.10291	13	
2022CPT.09.02.20291		

THERMOPLASTIC AND PAINT QUANTITIES

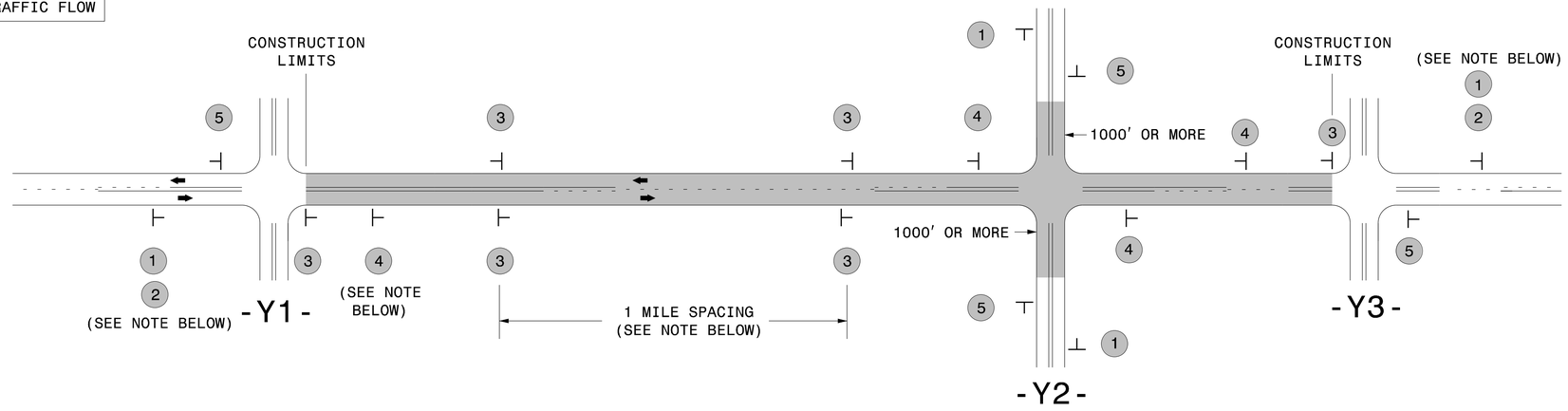
										4413000000-E	4457000000-N	4688000000-E		4720000000-E		4810000000-E		4815000000-E		4891000000-E	4895000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/ GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	THERMO MSG SCHOOL 90 M	THERMO RXR 90 M	4" WHITE PAINT	4" YELLOW PAINT	6" WHITE PAINT	6" YELLOW PAINT	24" X 90 M WHITE THERMO	NON CAST PLOWABLE MRKERS
								MI	FT	SF	LS	LF	LF	EA	EA	LF	LF	LF	LF	LF	EA
2022CPT.09.01.10291	Davidson	1	NC8	FROM NC49 TO PVT JOINT AT BRIDGE #0031	1,5,7	2	2WD	7.386	24	830	*	79,473	79,473					350	350		487
TOTAL FOR MAP NO. 1								**7.386**		**830**		**79,473**	**79,473**					**350**	**350**		**487**
TOTAL FOR PROJ NO. 2022CPT.09.01.10291								**7.386**		**830**	*	**79,473**	**79,473**					**350**	**350**		**487**
												158,946						**700**			
2022CPT.09.02.20291	Davidson	2	SR2010 E HOLLY GROVE RD	FROM US64 TO SR2184 CEDAR LODGE RD	4	2	2WD	7.698	22	1,726		82,830	82,830	12	4			772	772	192	
TOTAL FOR MAP NO. 2								**7.698**		**1,726**		**82,830**	**82,830**	**12**	**4**			**772**	**772**	**192**	
2022CPT.09.02.20291	Davidson	3	SR2205 OLD HWY64	FROM PVT JOINT AT SR2260 OLD HWY 75 TO NC109	4	2	2WD	2.14	26	240		23,026	23,026	12						152	
TOTAL FOR MAP NO. 3								**2.14**		**240**		**23,026**	**23,026**	**12**						**152**	
2022CPT.09.02.20291	Davidson	4	SR1104 OLD LINWOOD RD	FROM NC8 TO PVT JOINT AT BRIDGE #0163	4,8	2	2WD	1.99	24	224		21,412	21,412					668	668	64	
TOTAL FOR MAP NO. 4								**1.99**		**224**		**21,412**	**21,412**					**668**	**668**	**64**	
2022CPT.09.02.20291	Davidson	5	SR1266 OWENS RD	FROM NC8 TO PVT JOINT AT BRIDGE#0163	4	2	2WD	1.335	24	150		14,365	14,365								
TOTAL FOR MAP NO. 5								**1.335**		**150**	*	**14,365**	**14,365**								
2022CPT.09.02.20291	Davidson	6	SR1715 NORMAN SHOAF RD	FROM GUMTREE RD SR1711 TO MIDWAY SCHOOL RD SR1807	6	2	2WD	2.418	21	271		26,018	26,018								
TOTAL FOR MAP NO. 6								**2.418**		**271**		**26,018**	**26,018**								
2022CPT.09.02.20291	Davidson	7	SR1291 NATIONAL BLVD	FROM W CENTER ST TO PVT JOINT AT BUS 85 RAMP	3	2	2WD	0.511	23	60		5,498	5,498			5,498	5,498				
TOTAL FOR MAP NO. 7								**0.511**		**60**		**5,498**	**5,498**			**5,498**	**5,498**				
2022CPT.09.02.20291	Davidson	8	SR1237 FOREST HILL RD	FROM W CENTER ST SR1242 TO W OLD HWY 64 SR1192	2	2	2WD	0.994	22	112		10,695	106,950								
TOTAL FOR MAP NO. 8								**0.994**		**112**		**10,695**	**106,950**								
2022CPT.09.02.20291	Davidson	9	SR1732 HARVEY TEAGUE RD	FROM WALLBURG RD SR2691 TO GEORGETOWN RD SR1733	4	2	2WD	1.435	20	163		15,441	15,441								
TOTAL FOR MAP NO. 9								**1.435**		**163**		**15,441**	**15,441**								
TOTAL FOR PROJ NO. 2022CPT.09.02.20291								**18.521**		**2,946**	*	**199,285**	**295,540**	**24**	**4**	**5,498**	**5,498**	**1,440**	**1,440**	**408**	
												494,825		**28**		**10,996**		**2,880**			
GRAND TOTAL								**25.907**		**3,776**	**1**	**278,758**	**375,013**	**24**	**4**	**5,498**	**5,498**	**1,790**	**1,790**	**408**	**487**
												653,771		**28**		**10,996**		**3,580**			

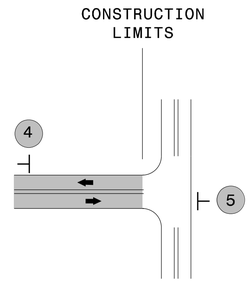
Note: All quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities recieved

PROJ. REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291, etc.	TMP-1

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 — ROAD WORK AHEAD, W20-1, 48″ X 48″
2 — NEXT XX MILES, W7-3aP, 24″ X 18″

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 CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)

3 — LOW SOFT SHOULDER, SP 13107, 48″ X 48″

- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.

4 — ROAD UNDER CONST, 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.
- FOR TEE INTERSECTIONS, INSTALL WITHIN 500′ +/- OF THE INTERSECTION ALONG -L- LINE.

5 — END ROAD WORK, G20-2 A, 48″ X 24″

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 WARNINGS SIGNS.

-Y- LINE SIGNING

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.

PLACED 500′ IN ADVANCE OF FLAGGER.

PLACED 250′ IN ADVANCE OF FLAGGER.

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

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

5/15/2017
SATMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kedavis

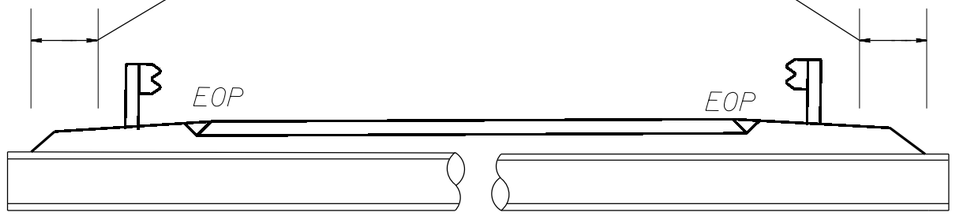
PROJECT REFERENCE NO.	SHEET NO.
2022CPT.09.01.10291, etc.	EC-1

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

EROSION CONTROL DETAIL

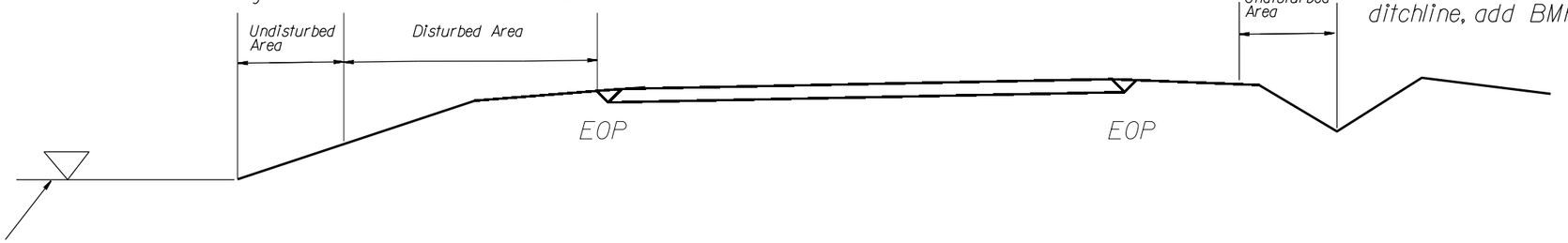
< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

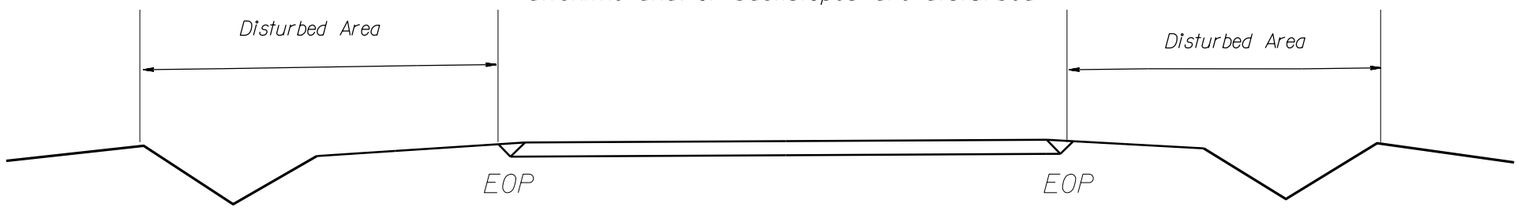
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

< 5' - 10' Undisturbed buffer from ditchline, add BMP

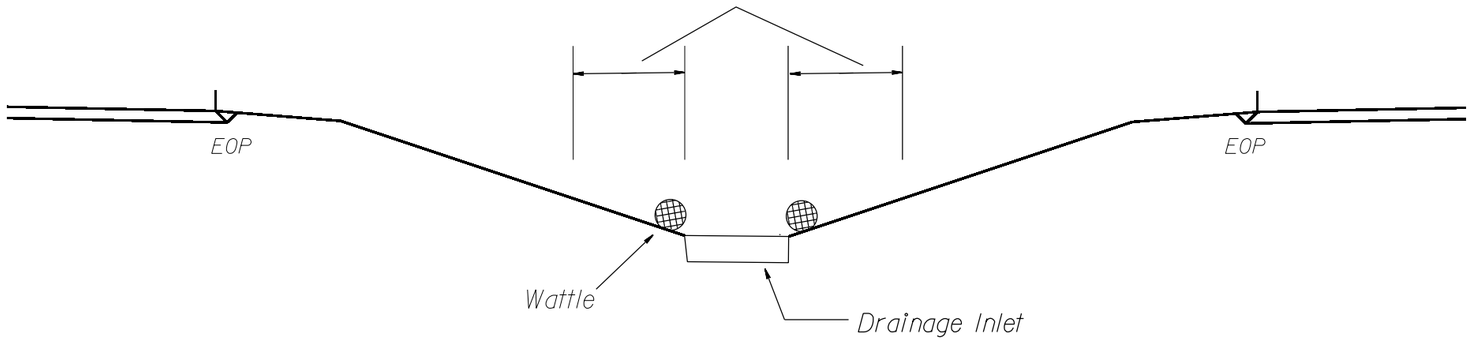


Jurisdictional Feature

Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

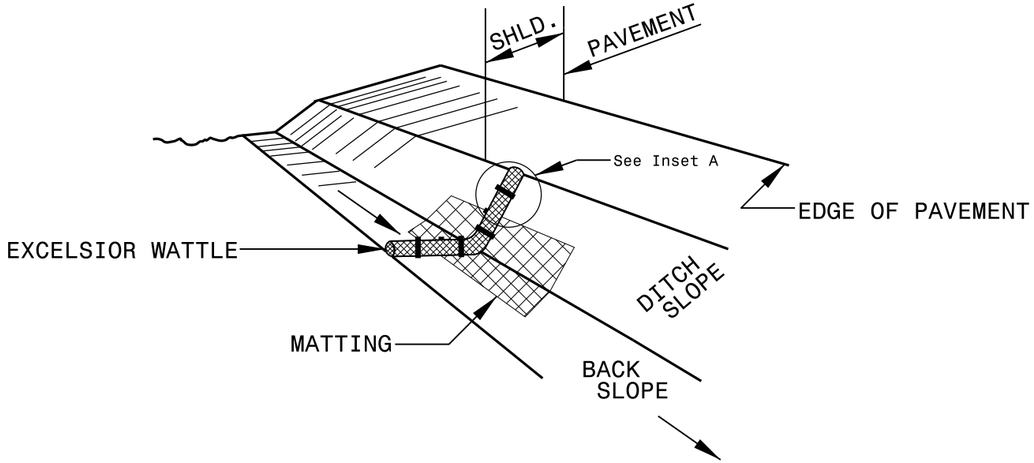


< 5' - 10' Undisturbed buffer from inlet, add wattle

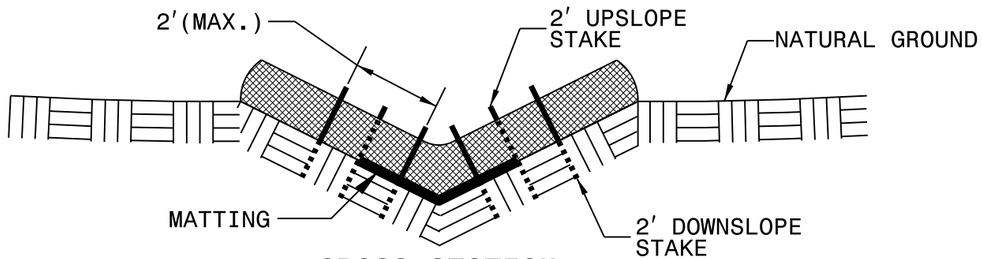


NOT TO SCALE

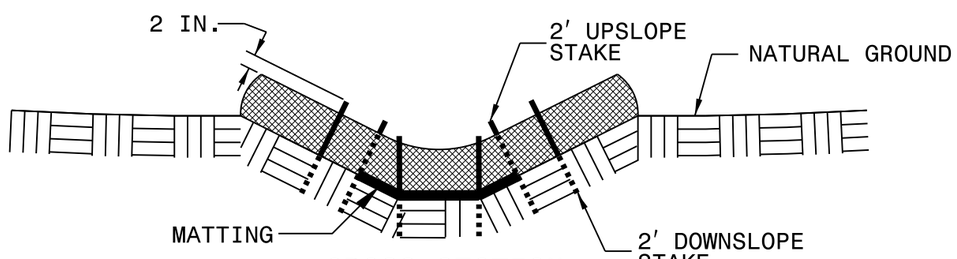
WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

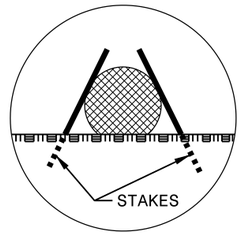
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

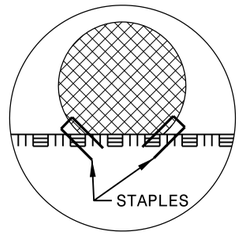
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

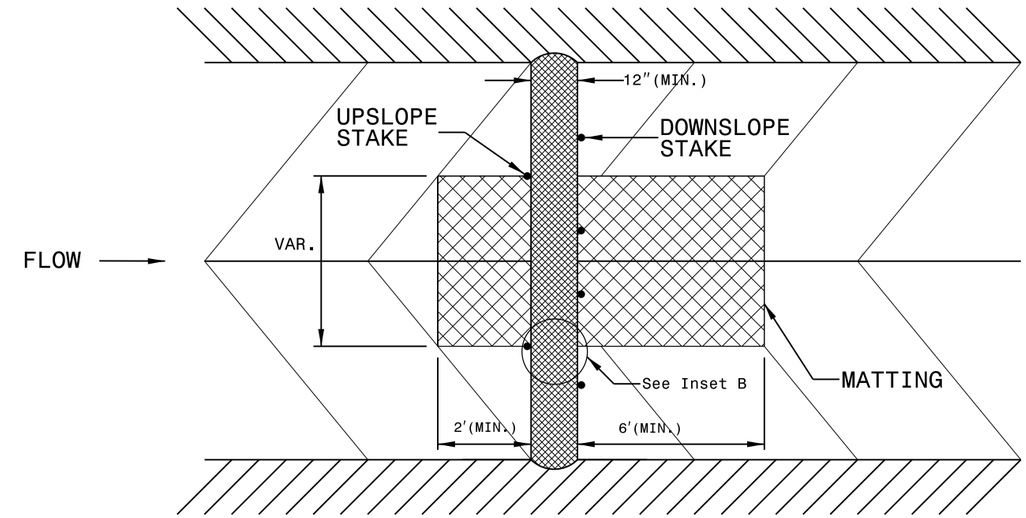
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



TOP VIEW