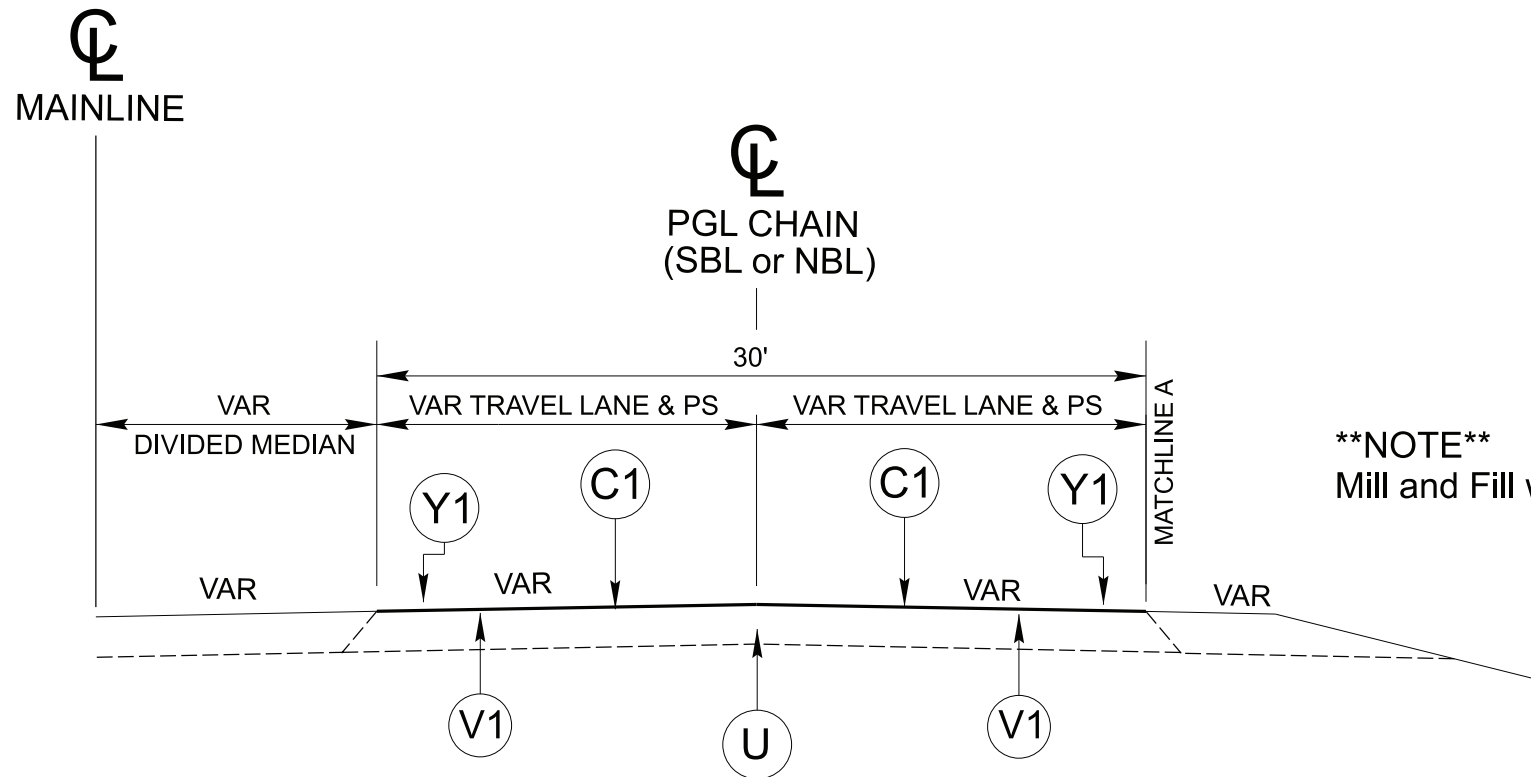


* "PATCHING EXISTING PAVEMENT" HAS BEEN INCLUDED AS A PAY ITEM ON MAPS. PATCHING MAY OR MAY NOT BE NEEDED DEPENDING ON CONDITION OF MAP SURFACE AT TIME THAT PAVING SEASON BEGINS. AREAS TO BE DELINIATED BY THE ENGINEER.

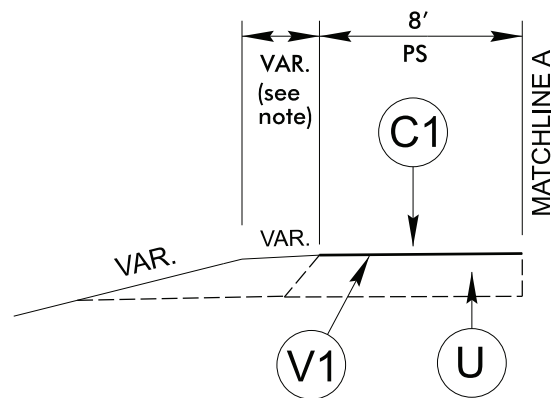
* INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER



TYPICAL SECTION NO. 1

**MAP 1 - US 421 NB FROM 0.38 MI S. OF SR 1001 TO PREVIOUS RESURFACING JOINT

**MAP 6 - US 421 SB FROM PREVIOUS RESURFACING JOINT TO 0.38 MI S. OF SR 1001



INSET NO. 1A **

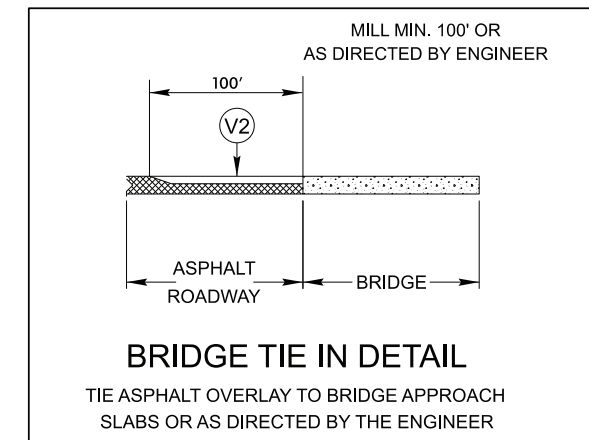
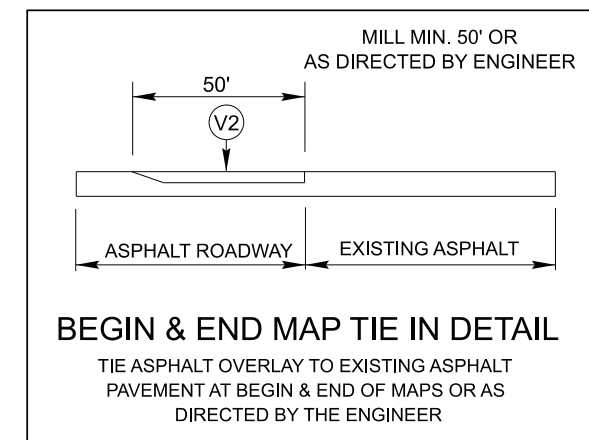
NOTE: INSET NO. 1A IS MIRRORED THE SAME ON LT AND RT SIDES

MAP 1 - VARIOUS SPOT LOCATIONS (APPROX. MP 15.54 - 15.59, 16.20 - 16.61, & 17.05 - 17.09)

MAP 6 - VARIOUS SPOT LOCATIONS (APPROX. MP 19.19 - 19.28, & 20.07 - 20.08)

NOTE:
Mill and Fill as close to asphalt curb located adjacent to PS as possible without damage (curb improvement is not part of contract)

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, 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	INCIDENTAL MILLING (See Tie in Detail)
Y1	MILLED RUMBLE STRIPS (16")
Y2	MILLED SINUSOIDAL RUMBLE STRIP (8")
Y3	MILLED SINUSOIDAL RUMBLE STRIP (14")

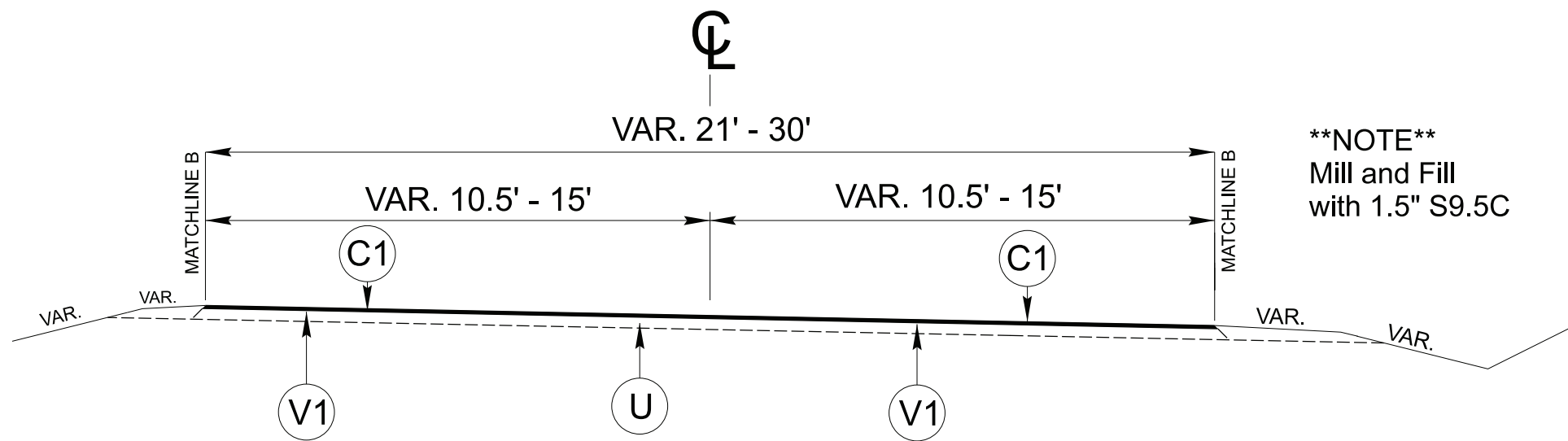


NOTE: TYPICALS ARE NOT TO SCALE



5/26/20

* INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER

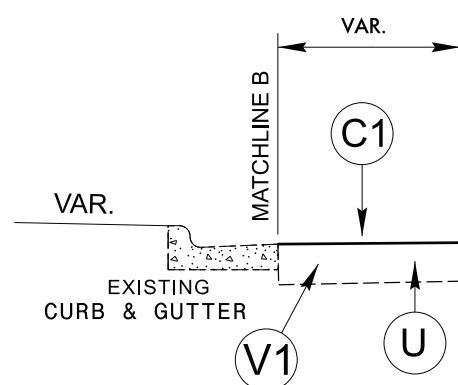


TYPICAL SECTION NO. 2

- MAP 2 - RMP-2556 (NB OFF RAMP) FROM US 421 NB TO SR 1001 RDBT PVMT JOINT
- **MAP 3 - RMP-2558 (NB ON RAMP) FROM SR 1001 RDBT PVMT JOINT TO US 421 NB
- **MAP 4 - RMP-2551 (NB OFF RAMP) FROM US 421 NB TO NC 16/NC 18 PVMT JOINT
- **MAP 5 - RMP-2548 (NB ON RAMP) FROM NC 16/NC 18 PVMT JOINT TO US 421 NB
- MAP 7 - RMP-2552 (SB OFF RAMP) FROM US 421 SB TO NC 16/NC 18 (EXIST PVMT JOINT)
- **MAP 8 - RMP-2546 (SB ON RAMP) FROM NC 16/NC 18 (END OF MONOLITHIC ISLAND) TO US 421 SB
- MAP 9 - RMP-2561 (SB OFF RAMP) FROM US 421 SB TO SR 1001
- MAP 10 - RMP-2554 (SB ON RAMP) FROM SR 1001 TO US 421 SB

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, 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	INCIDENTAL MILLING (See Tie in Detail)
Y1	MILLED RUMBLE STRIPS (16")
Y2	MILLED SINUSOIDAL RUMBLE STRIP (8")
Y3	MILLED SINUSOIDAL RUMBLE STRIP (14")

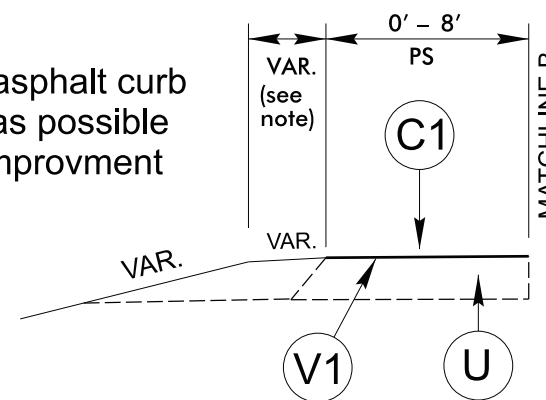
DK00446
002
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DIVISION ELEVEN
WILKES COUNTY
PRIMARY ROADS
2026
ASPHALT
RESURFACING
DATE: 8/26/2025
PREPARED BY: DLH



INSET NO. 2A **

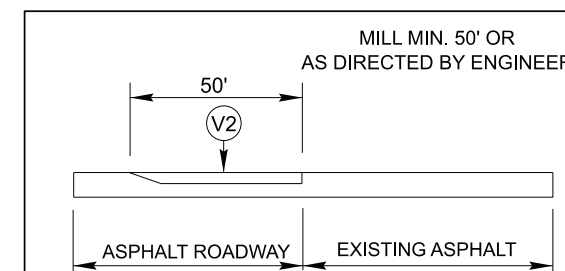
NOTE: INSET NO. 2A IS MIRRORED THE SAME ON LT AND RT SIDES
MAPS 3, 4, 5 & 8 - VARIOUS SPOT LOCATIONS (WHEN EXIST. SBG IS PRESENT)

NOTE:
Mill and Fill as close to asphalt curb located adjacent to PS as possible without damage (curb improvement is not part of contract)



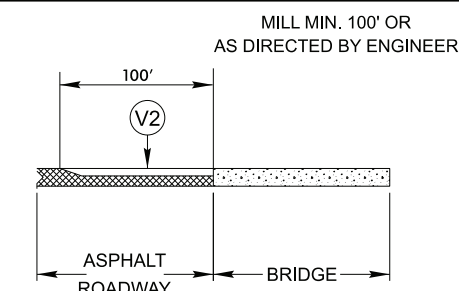
INSET NO. 2B **

NOTE: INSET NO. 2B IS MIRRORED THE SAME ON LT AND RT SIDES
MAP 3 - VARIOUS SPOT LOCATIONS (WHEN EXIST. PS IS PRESENT)
MAP 8 - VARIOUS SPOT LOCATIONS (WHEN EXIST. PS IS PRESENT)



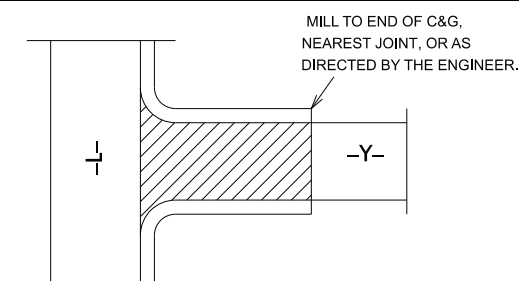
BEGIN & END MAP TIE IN DETAIL

TIE ASPHALT OVERLAY TO EXISTING ASPHALT PAVEMENT AT BEGIN & END OF MAPS OR AS DIRECTED BY THE ENGINEER



BRIDGE TIE IN DETAIL

TIE ASPHALT OVERLAY TO BRIDGE APPROACH SLABS OR AS DIRECTED BY THE ENGINEER



INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII AND STREET INTERSECTIONS, AS NEEDED OR AS DIRECTED BY THE ENGINEER

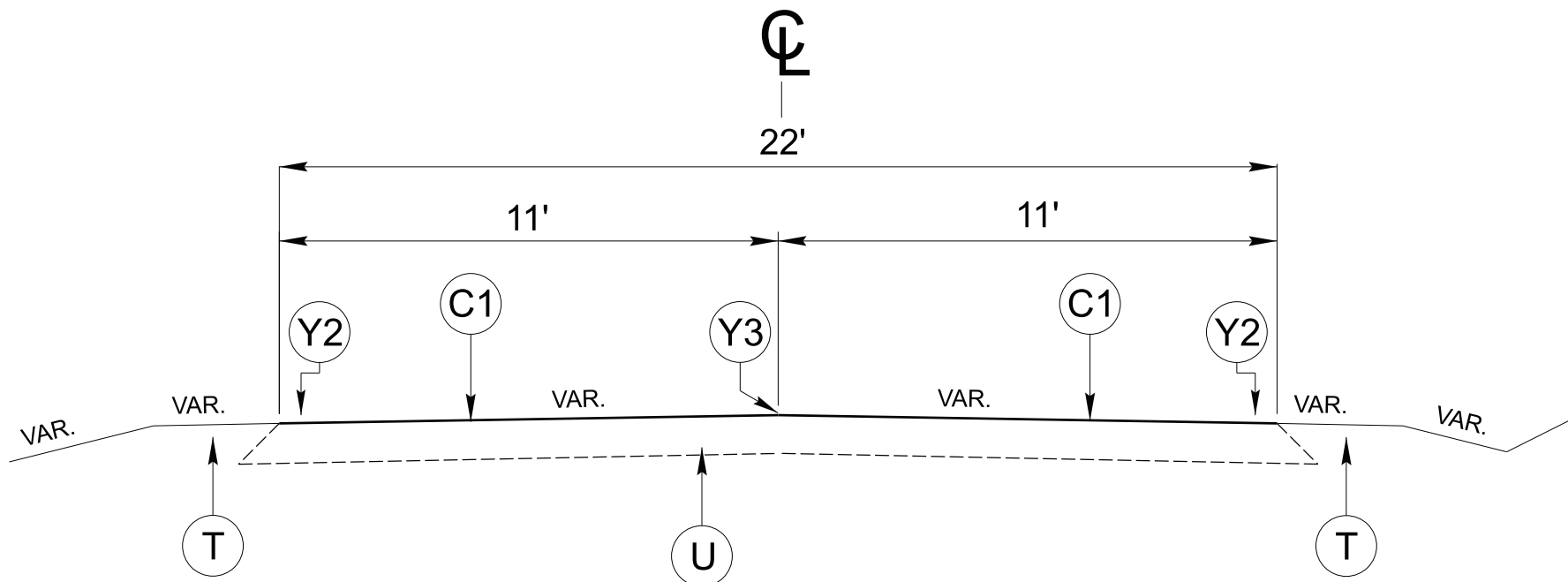
MILLING AT CURB & GUTTER INTERSECTIONS

NOTE: TYPICALS ARE NOT TO SCALE

REVISIONS

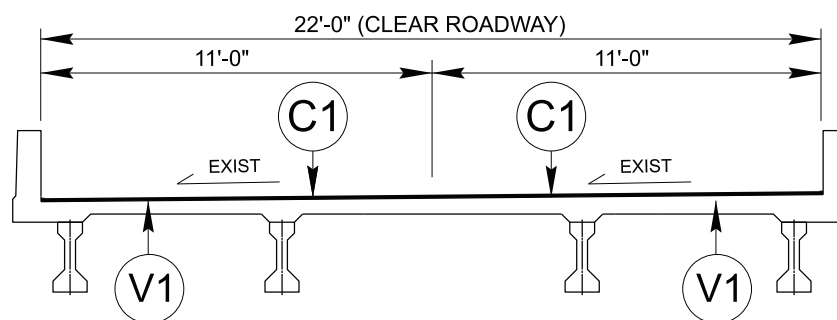
5/26/20

* INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER



TYPICAL SECTION NO. 3

*MAP 11 - NC 268 EAST FROM 50' E. OF SR 1989 TO 50' E. OF SR 2144
 *(See Typical No.4 for bridge overlay location)



TYPICAL SECTION NO. 4

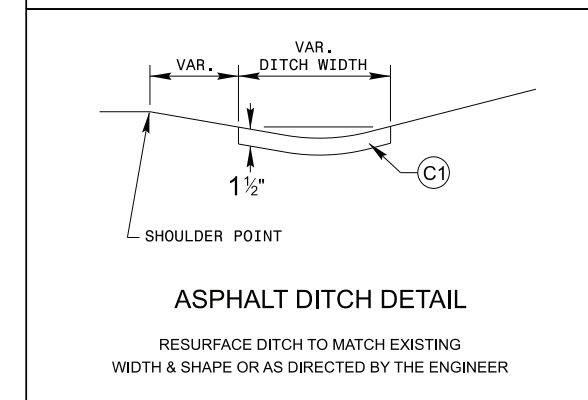
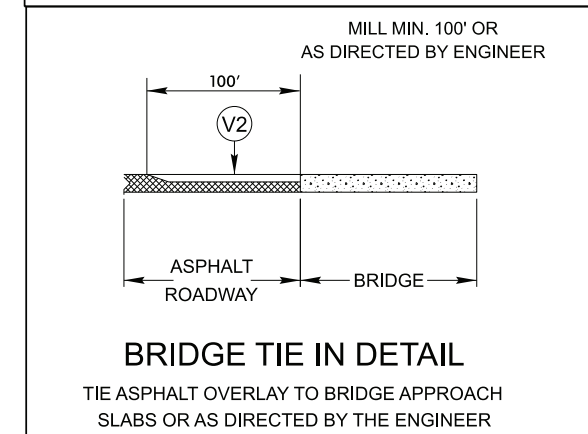
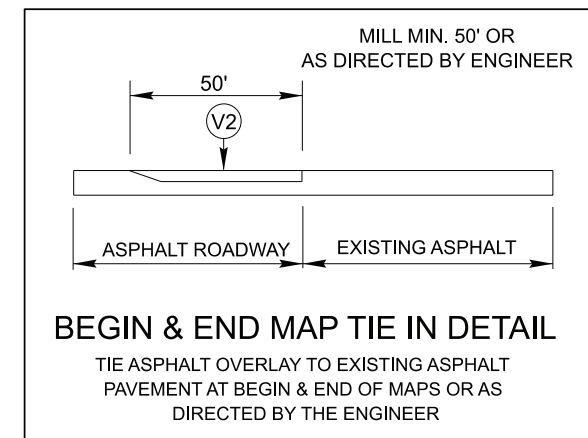
MAP 11 - NC 268 EAST FROM MP 27.83 TO 27.87

****NOTE****
 Mill and Fill with 1.5" S9.5C

NOTE: EXISTING BRIDGE SUPERSTRUCTURE #88

*** Note: An asphalt ditch is present on map 11 from MP 27.63 - 27.70 (LT Shld).
 The contractor is to clean the ditch and refer to the corresponding detail for resurfacing guidance as directed by the engineer.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, 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	INCIDENTAL MILLING (See Tie in Detail)
Y1	MILLED RUMBLE STRIPS (16")
Y2	MILLED SINUSOIDAL RUMBLE STRIP (8")
Y3	MILLED SINUSOIDAL RUMBLE STRIP (14")



NOTE: TYPICALS ARE NOT TO SCALE

DK00446

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS



DIVISION ELEVEN

WILKES COUNTY

PRIMARY ROADS

2026 ASPHALT RESURFACING



DATE: 8/26/2025
 PREPARED BY: DLH

REVISIONS

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN	END	1220000000-E	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1523000000-E	1575000000-E	1704000000-E	1880000000-E	1881000000-E		7444000000-E	
								MI	FT	MP	MP	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, \$9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	RESURFACE EXISTING ASPHALT PAVED DITCH	MILLED RUMBLE STRIPS (ASPHALT CONCRETE), 16"	SINUSOIDAL RUMBLE STRIP (8")	SINUSOIDAL RUMBLE STRIP (14")	INDUCTIVE LOOP SAWCUT
												TONS	SMI	TON	SY	SY	TONS	TONS	TONS	TONS	LF	LF	LF	LF
2026CPT.11.02.10971	Wilkes	1	US-421 NORTH	FROM 0.38 MILE SOUTH OF SR 1001 TO PREVIOUS RESURFACING JOINT (0.39 MILE NORTH OF NC 16/NC 18)	1	2	MD	1.61	30	15.48	17.09				31,000		2,749	170	156			17,002		
2026CPT.11.02.10971	Wilkes	2	RAMP 2556 (NORTH BOUND "OFF" RAMP TO SR 1001)	FROM US 421 NORTH TO SR 1001 ROUNDABOUT PAVEMENT JOINT	2	2	MD	0.19	24	0	0.19	30			2,900		260	15						
2026CPT.11.02.10971	Wilkes	3	RAMP 2558 (NORTH BOUND "ON" RAMP FROM SR 1001)	FROM SR 1001 ROUNDABOUT PAVEMENT JOINT TO US 421 NORTHBOUND	2	2	MD	0.2	24	0	0.2	15			2,900		273	16						
2026CPT.11.02.10971	Wilkes	4	RAMP 2551 (NORTH BOUND "OFF" RAMP TO NC16/NC18)	FROM US 421 NORTH TO NC 16/NC 18 PAVEMENT JOINT (DK00412-MAP 7)	2	2	MD	0.16	21	0	0.16				2,200		192	13	35					
2026CPT.11.02.10971	Wilkes	5	RAMP 2548 (NORTH BOUND "ON" RAMP TO NC16/NC18)	FROM NC 16/NC 18 PAVEMENT JOINT (DK00412-MAP 7) TO US 421 NORTH	2	2	MD	0.26	24	0.12	0.38	15			4,200		355	21						
2026CPT.11.02.10971	Wilkes	6	US-421 SOUTH	FROM PREVIOUS RESURFACING JOINT (0.38 MILE SOUTH OF NC 268) TO 0.38 MILE SOUTH OF SR 1001 (AT THE END OF ON RAMP)	1	2	MD	1.61	30	18.47	20.08				29,470		2,749	170	156			17,002		
2026CPT.11.02.10971	Wilkes	7	RAMP 2552 (SOUTH BOUND "OFF" RAMP TO NC16/NC18)	FROM US 421 SOUTH TO NC 16/NC 18 (EXISTING PAVEMENT JOINT)	2	2	MD	0.27	24	0	0.27	15			3,100		321	19						
2026CPT.11.02.10971	Wilkes	8	RAMP 2546 (SOUTH BOUND "ON" RAMP FROM NC16/NC18)	FROM NC 16/NC 18 (END OF MONOLITHIC ISLAND) TO US 421 SOUTH	2	2	MD	0.33	24	0.11	0.44	15			4,300		412	24						
2026CPT.11.02.10971	Wilkes	9	RAMP 2561 (SOUTH BOUND "OFF" RAMP TO SR 1001)	FROM US 421 SOUTH TO SR 1001 (JOINT AT EDGE LINE OF SR 1001)	2	2	MD	0.26	24	0	0.26	4			4,100		355	21						280
2026CPT.11.02.10971	Wilkes	10	RAMP 2554 (SOUTH BOUND "ON" RAMP FROM SR 1001)	FROM SR 1001 (JOINT AT EDGELINE OF SR 1001) TO US 421 SOUTH	2	2	MD	0.23	30	0	0.23	15			4,900		410	24						
2026CPT.11.02.10971	Wilkes	11	NC-268 EAST	FROM 50' EAST OF SR 1989 (ARBOR GROVE BAPTIST CHURCH ROAD) TO 50' EAST OF SR 2144 (PEACOCK DRIVE)	3-4	2	2WU	2.63	22	26.23	28.86	105	5.3	1,447		4,350	3,392	227	535	28		27,773	13,887	
TOTAL FOR PROJ NO. 2026CPT.11.02.10971								7.75				214	5.3	1,447	89,070	4,350	11,468	720	882	28	34,004	27,773	13,887	280
GRAND TOTAL								7.75				214	5.3	1,447	89,070	4,350	11,468	720	882	28	34,004	27,773	13,887	280

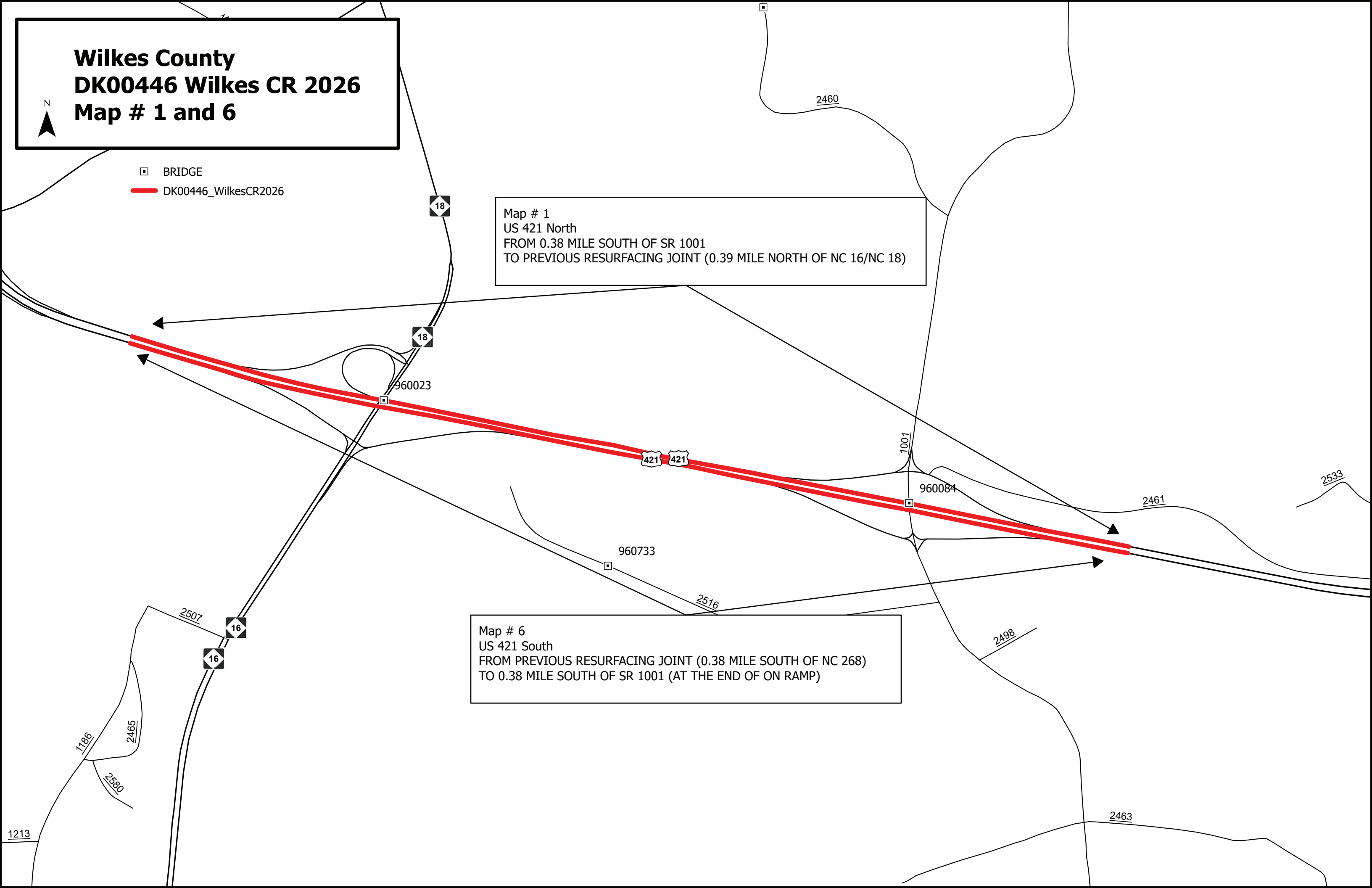
Wilkes County DK00446 Wilkes CR 2026 Map # 1 and 6



- ▣ BRIDGE
- DK00446_WilkesCR2026

Map # 1
US 421 North
FROM 0.38 MILE SOUTH OF SR 1001
TO PREVIOUS RESURFACING JOINT (0.39 MILE NORTH OF NC 16/NC 18)

Map # 6
US 421 South
FROM PREVIOUS RESURFACING JOINT (0.38 MILE SOUTH OF NC 268)
TO 0.38 MILE SOUTH OF SR 1001 (AT THE END OF ON RAMP)



Wilkes County
DK00446 Wilkes CR 2026
Map # 2, 3, 9, and 10



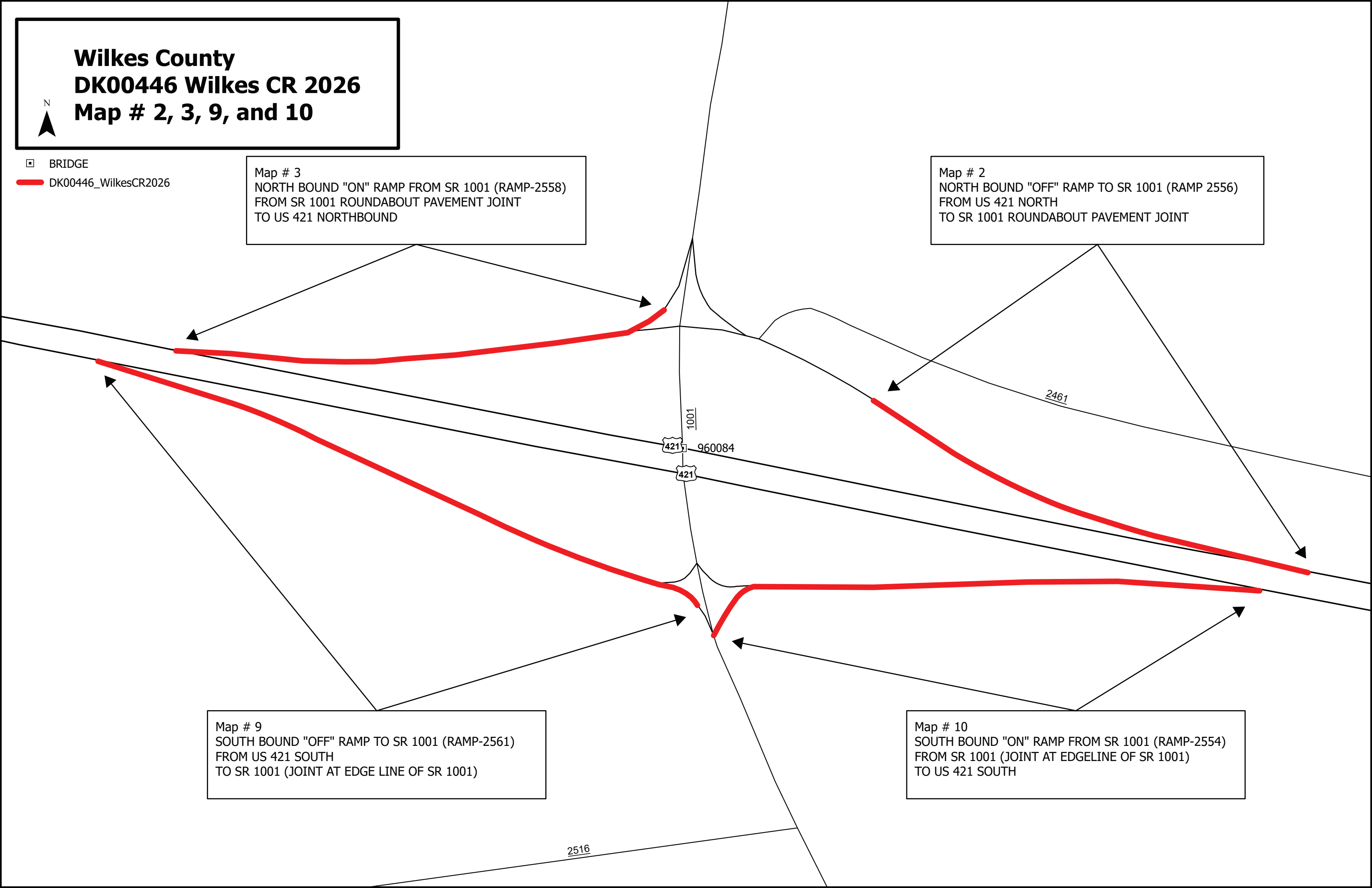
- BRIDGE
- DK00446_WilkesCR2026

Map # 3
NORTH BOUND "ON" RAMP FROM SR 1001 (RAMP-2558)
FROM SR 1001 ROUNDABOUT PAVEMENT JOINT
TO US 421 NORTHBOUND

Map # 2
NORTH BOUND "OFF" RAMP TO SR 1001 (RAMP 2556)
FROM US 421 NORTH
TO SR 1001 ROUNDABOUT PAVEMENT JOINT

Map # 9
SOUTH BOUND "OFF" RAMP TO SR 1001 (RAMP-2561)
FROM US 421 SOUTH
TO SR 1001 (JOINT AT EDGE LINE OF SR 1001)

Map # 10
SOUTH BOUND "ON" RAMP FROM SR 1001 (RAMP-2554)
FROM SR 1001 (JOINT AT EDGELINE OF SR 1001)
TO US 421 SOUTH



Wilkes County
DK00446 Wilkes CR 2026
Map # 4, 5, 7, and 8



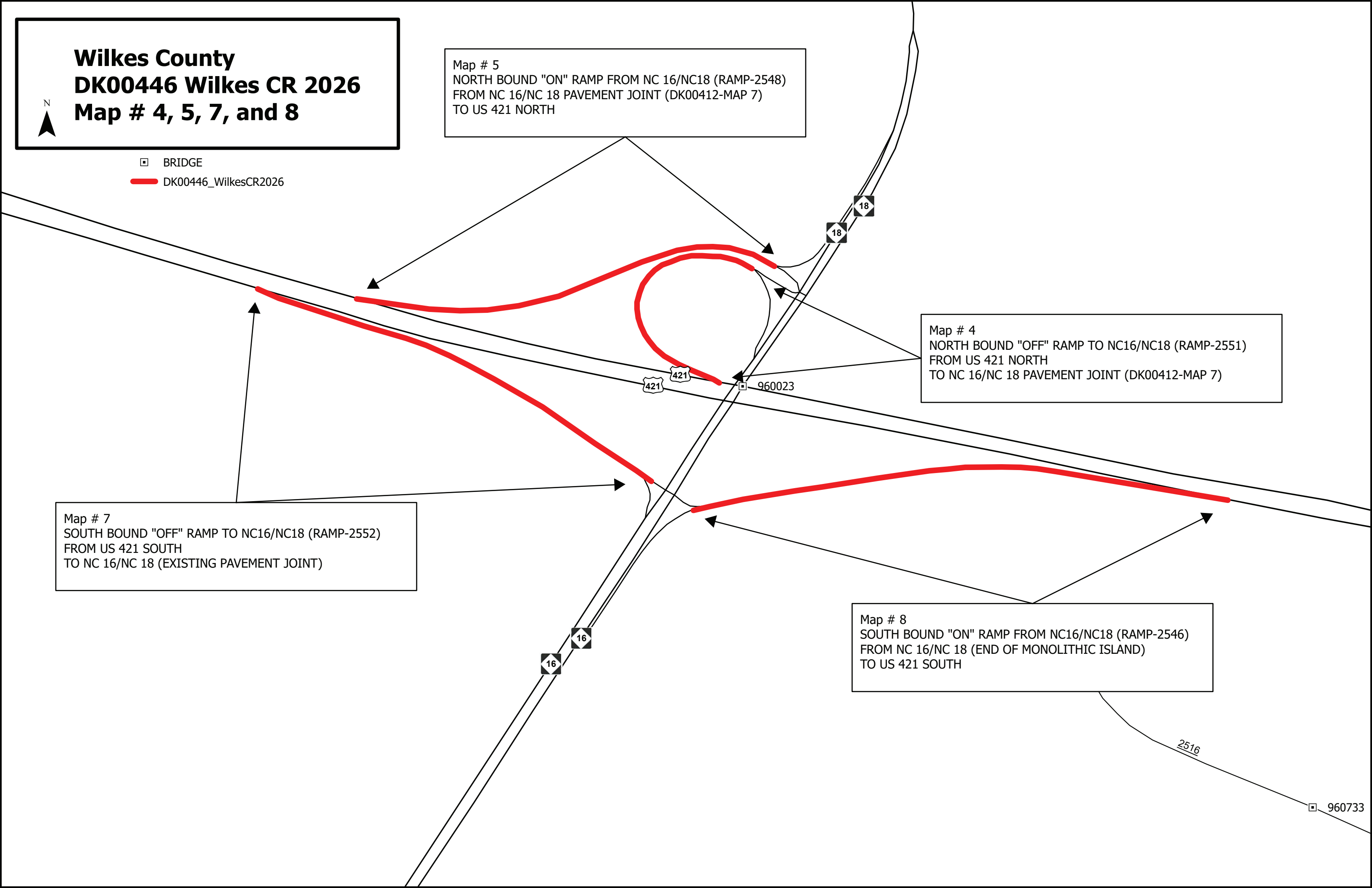
- ▣ BRIDGE
- DK00446_WilkesCR2026

Map # 5
NORTH BOUND "ON" RAMP FROM NC 16/NC18 (RAMP-2548)
FROM NC 16/NC 18 PAVEMENT JOINT (DK00412-MAP 7)
TO US 421 NORTH

Map # 4
NORTH BOUND "OFF" RAMP TO NC16/NC18 (RAMP-2551)
FROM US 421 NORTH
TO NC 16/NC 18 PAVEMENT JOINT (DK00412-MAP 7)

Map # 7
SOUTH BOUND "OFF" RAMP TO NC16/NC18 (RAMP-2552)
FROM US 421 SOUTH
TO NC 16/NC 18 (EXISTING PAVEMENT JOINT)

Map # 8
SOUTH BOUND "ON" RAMP FROM NC16/NC18 (RAMP-2546)
FROM NC 16/NC 18 (END OF MONOLITHIC ISLAND)
TO US 421 SOUTH



Wilkes County DK00446 Wilkes CR 2026 Map # 11



- ▣ BRIDGE
- DK00446_Wilkes 2026

1989

2172

2377

2329

2086

2134

2083

1996

1995

1998

1997

1990

2147

2000

2144

268

960088

2327

960191

2318

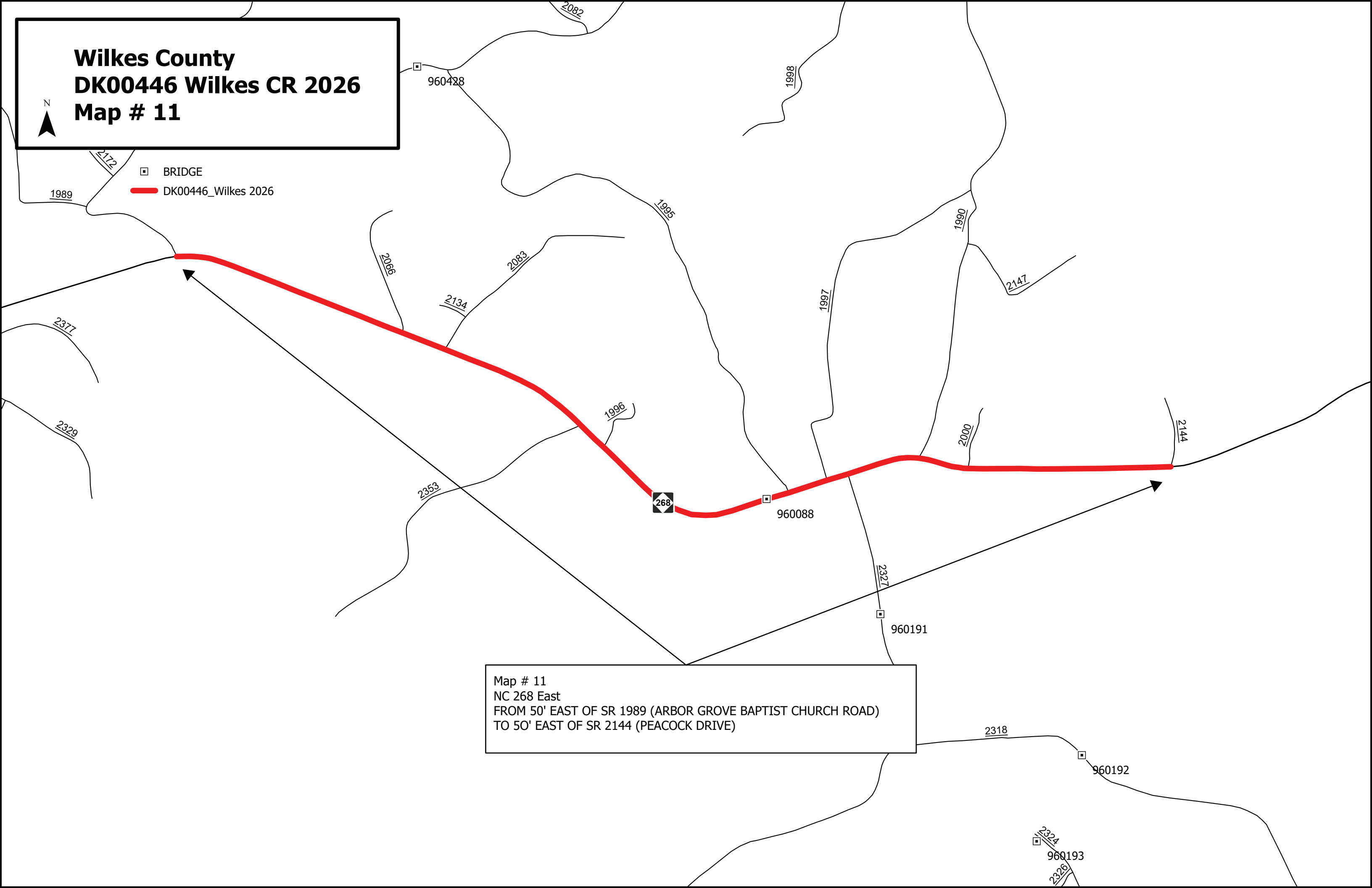
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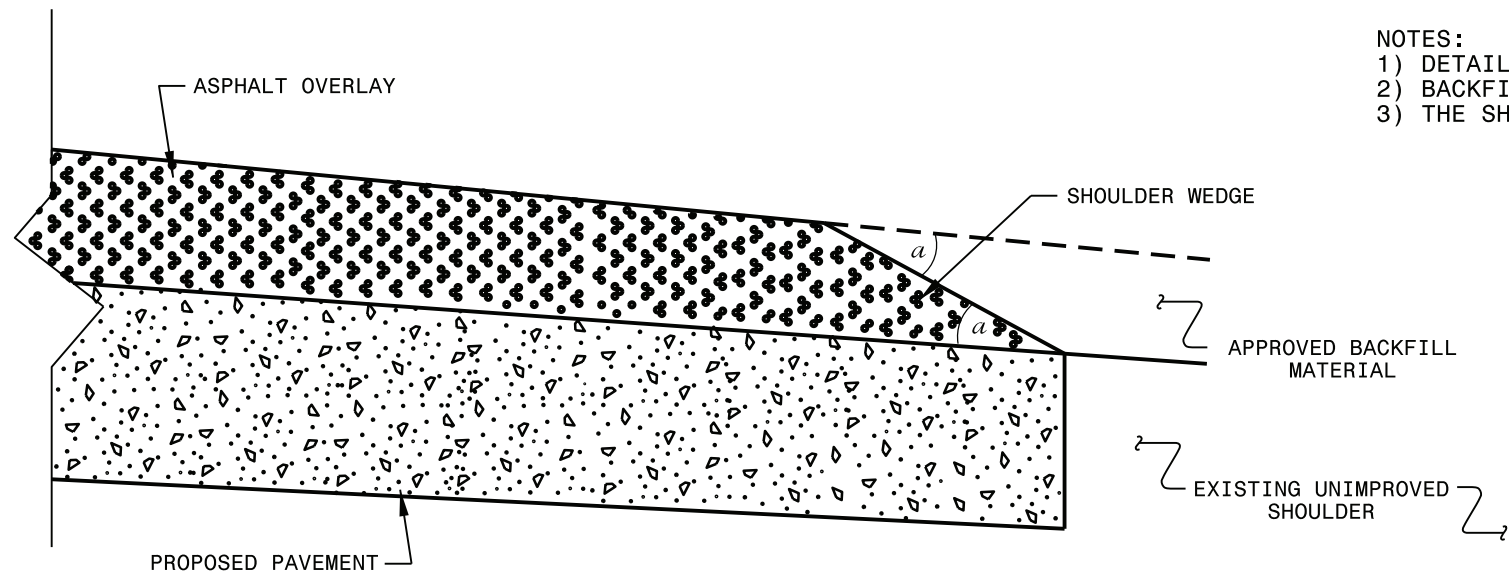
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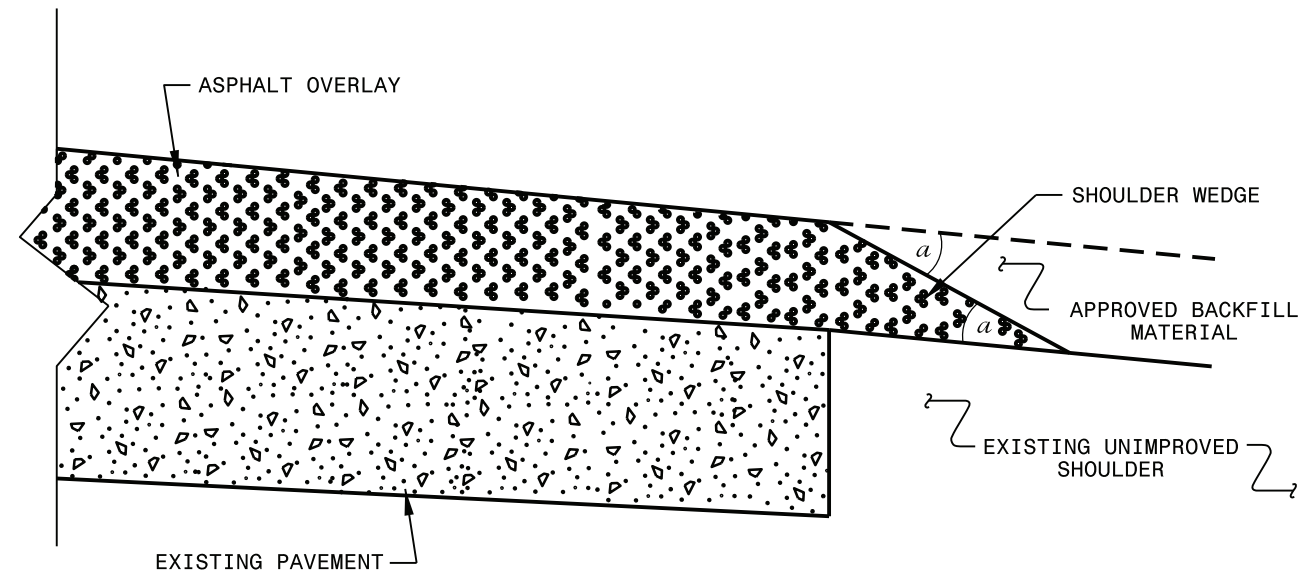
Map # 11
NC 268 East
FROM 50' EAST OF SR 1989 (ARBOR GROVE BAPTIST CHURCH ROAD)
TO 50' EAST OF SR 2144 (PEACOCK DRIVE)



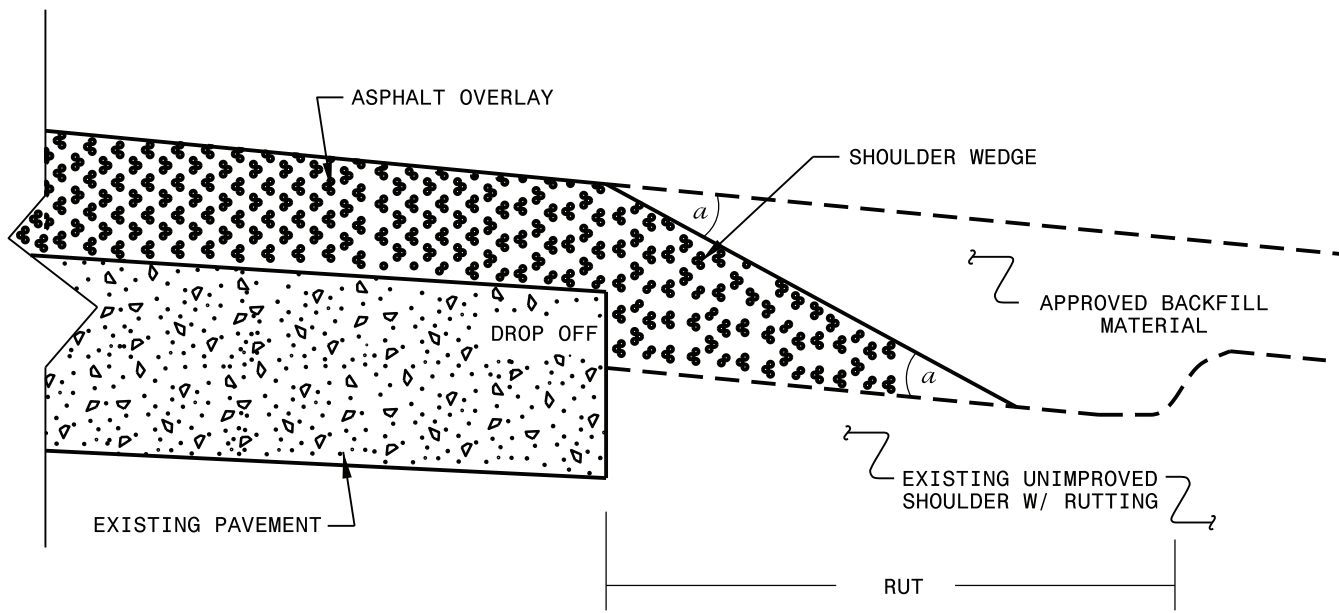
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



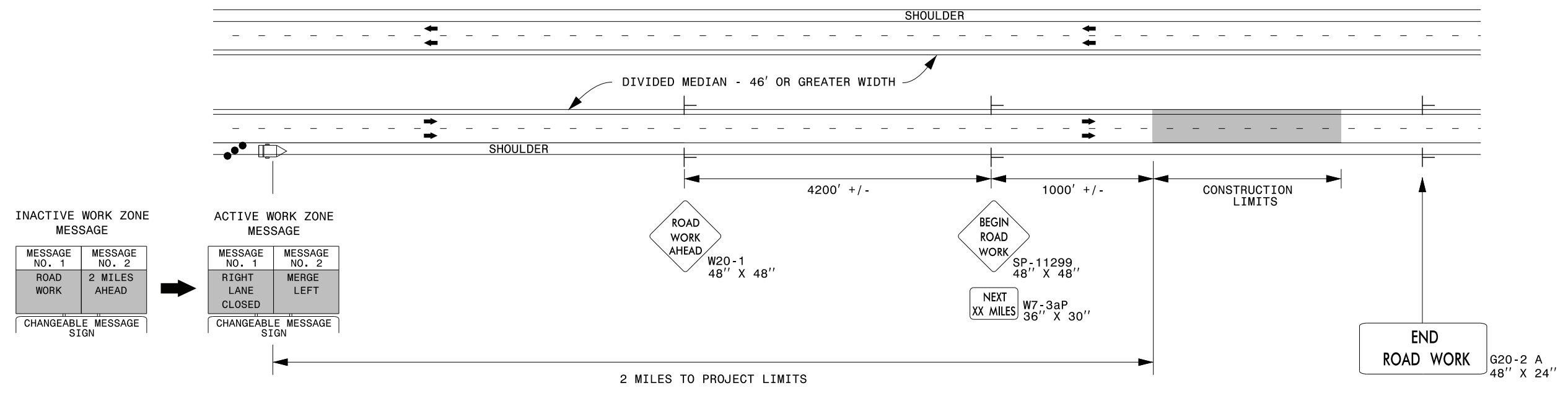
SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

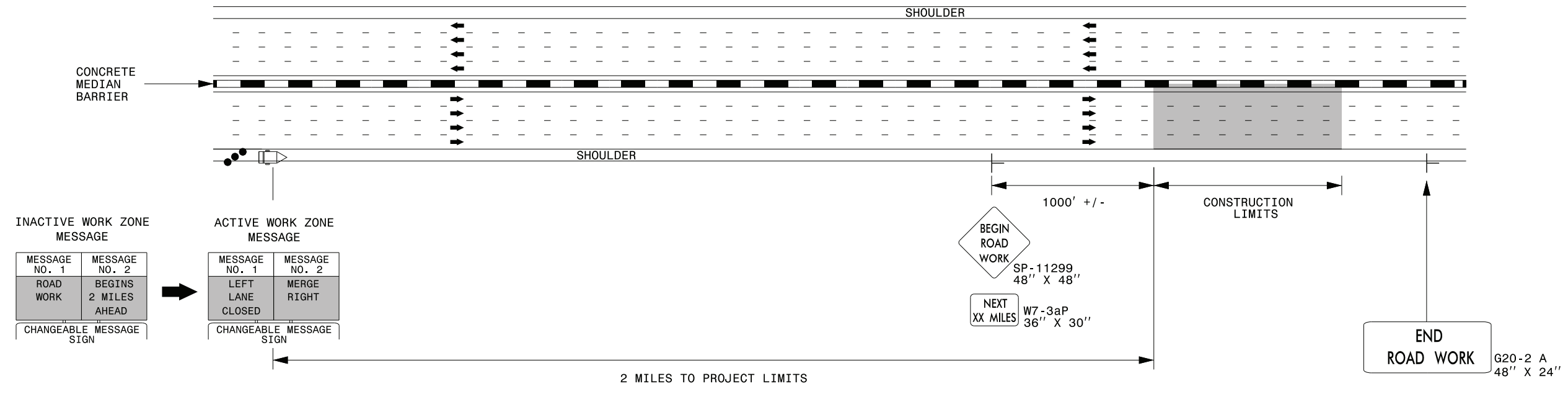
CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN
 USER NAME

DIVIDED MEDIANS WITH WIDTHS 46' OR GREATER



DIVIDED MEDIANS WITH WIDTHS LESS THAN 46' OR WITH PERMANENT MEDIAN BARRIER

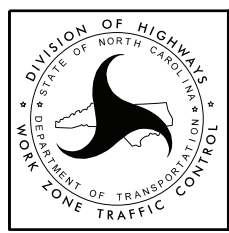


NOTES:

- 1) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 6' AS MEASURED FROM THE EDGE OF PAVEMENT.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) FOR MEDIAN WIDTHS LESS THAN 46' (MEASURED EDGELINE TO EDGELINE) USE THE BOTTOM DRAWING.
- 4) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 5) INSTALL "ROAD WORK AHEAD" (W20-1) ALONG ENTRANCE RAMP 500' PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMP WITHIN THE WORK ZONE.
- 6) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER AND WITH DIVIDED MEDIANS OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

- CHANGEABLE MESSAGE SIGN (CMS)
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW
- TRAFFIC DRUM

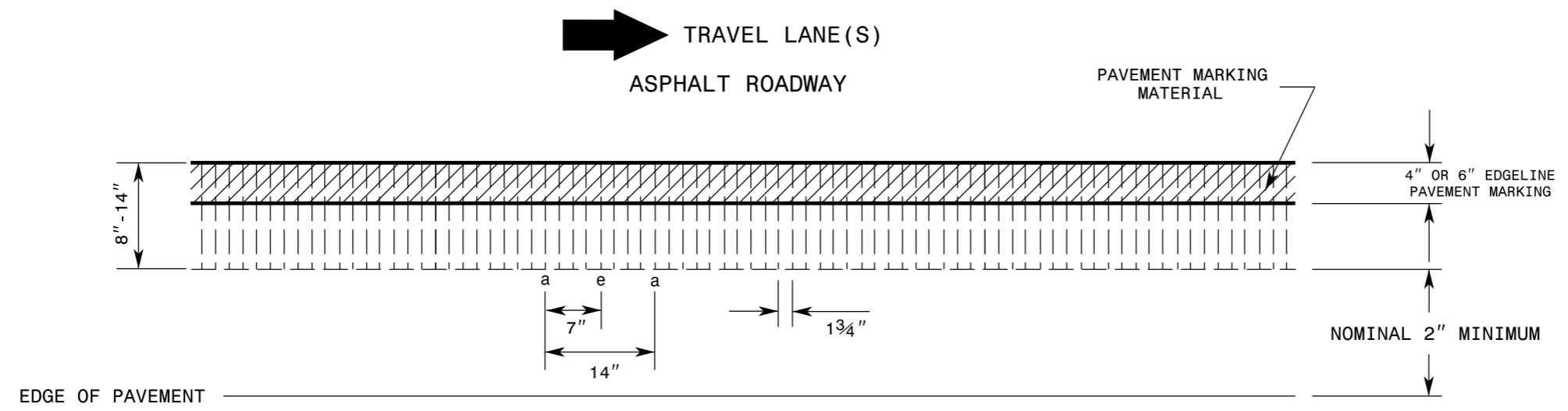


**RESURFACING ADVANCE
WARNING SIGNS FOR
HIGH SPEED FACILITIES
≥ 60 MPH**

3/23/2015 C:\Users\rmgarrrett\Downloads\Resurfacing_AdvWarn_HSpd.dgn User:rmgarrrett

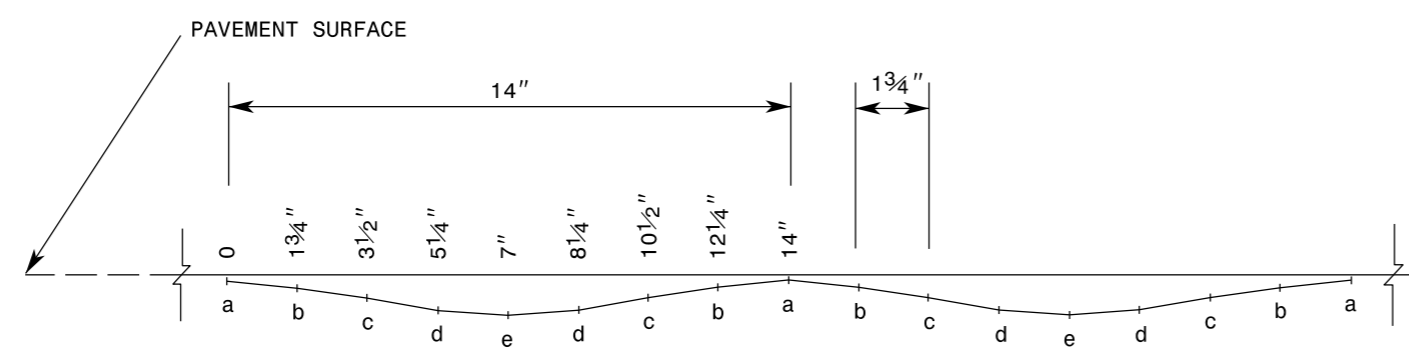
See Table 1 within Rumble Strip
Policy for Design Guidance

PLAN VIEW



EDGE OF PAVEMENT

PROFILE VIEW



LOCATION	DEPTH	
	MIL	INCHES
a	62.5	1/16"
b	125	1/8"
c	219	7/32"
d	344	11/32"
e	375	3/8"

REFERENCE DRAWING ID: Sin.Stripe

NOTES:

- 1) Specification in table taken from MNDOT Research Project Final Report 2016-23: *Sinusoidal Rumble Strip Design Optimization Study By: Terhaar et. al, June 2016*
- 2) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 3) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
SINUSOIDAL EDGELINE RUMBLE STRIPE

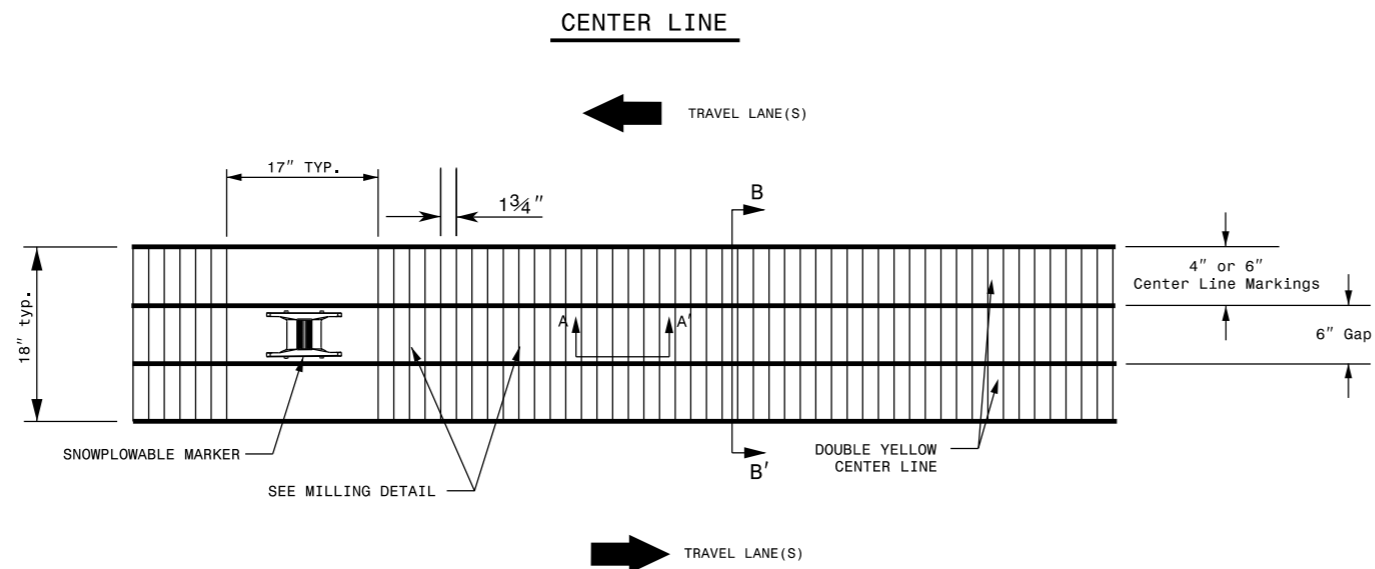
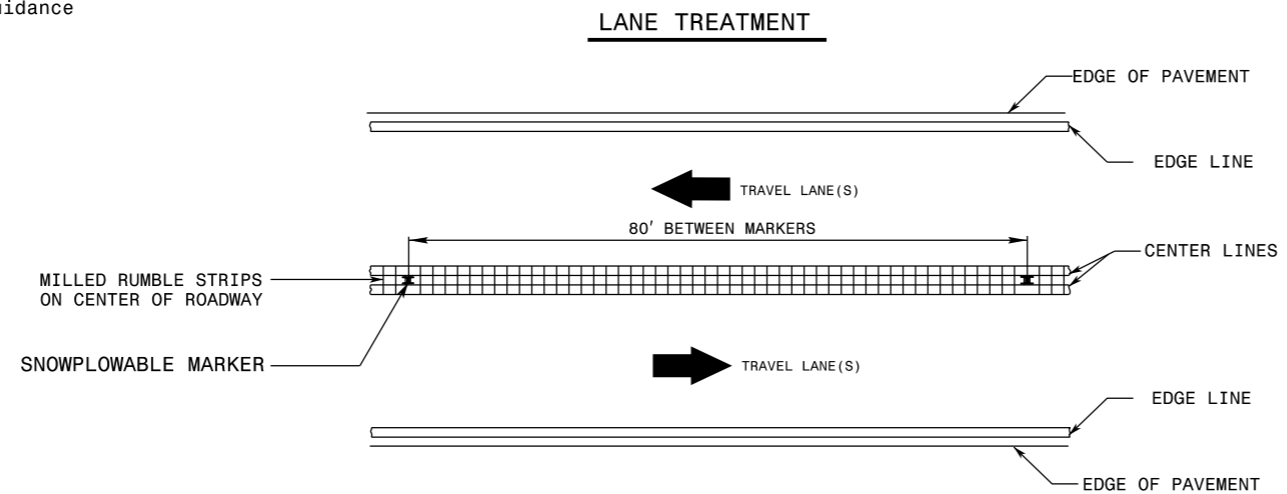
SHEET 4 OF 9

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: C. SIMPSON	DATE: 04-24-2025
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	

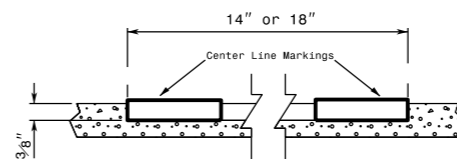
See Table 2 within Rumble Strip Policy for Design Guidance



MILLING DETAIL

See Sheet 6 for profile.

SECTION A-A'



SECTION B-B'

REFERENCE DRAWING ID: Sin.CL with Snowplowable Markers

NOTES:

- 1) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 3) INSTALL SNOWPLOWABLE MARKERS AT APPROXIMATELY 80' INCREMENTS. DO NOT MILL RUMBLE STRIPS IN SECTION WHERE SNOWPLOWABLE MARKERS ARE INSTALLED.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
SINUSOIDAL CENTERLINE RUMBLE STRIPE WITH SNOWPLOWABLE MARKERS

SHEET 8 OF 9

CONTRACTS STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-8950 FAX 919-250-4119	
SEE TITLE BLOCK	
ORIGINAL BY: C. SIMPSON	DATE: 04-24-2025
MODIFIED BY: _____	DATE: _____
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