

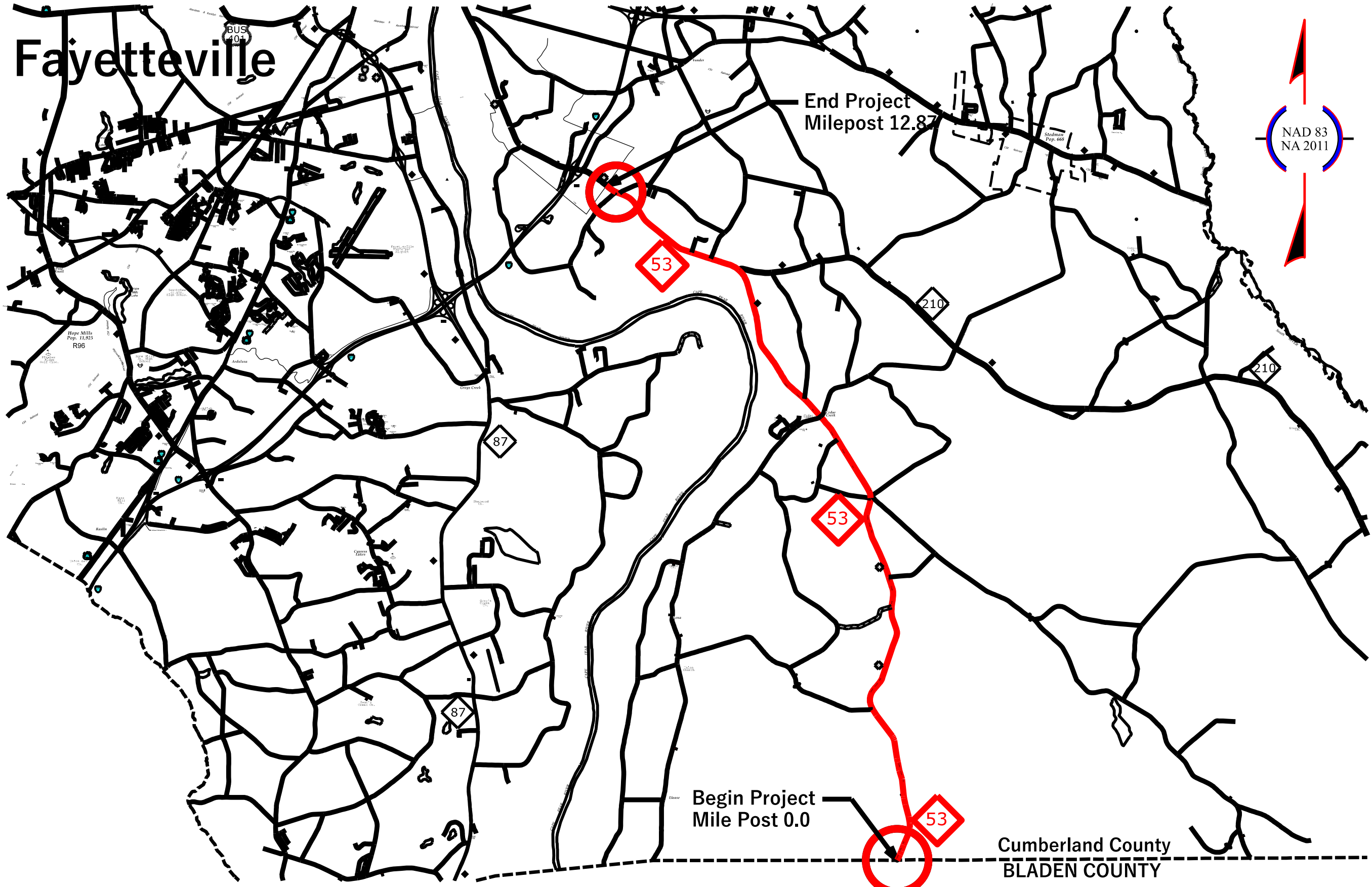
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION 6

PLANS

Letting Date: June 17, 2026

CONTRACT ID:	DF00554
TIP no.:	HS-2406U & HS-2406Y
FEDERAL AID NO.:	5097824 & 5097828
WBS ELEMENT NO.:	50978.3.24 & 50978.3.28
ROUTE NO.:	NC 53 & SR 1004
LOCATION:	VARIOUS
COUNTY:	CUMBERLAND & COLUMBUS
LENGTH OF PROJECT:	23.78 MILES
TYPE OF WORK:	SINUSOIDAL MILLED RUMBLE STRIPS & PAVEMENT MARKINGS

HS-2406U

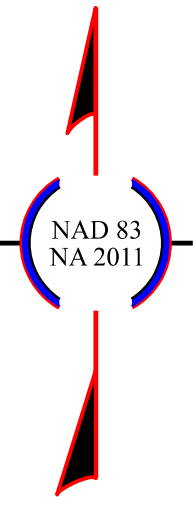


Fayetteville

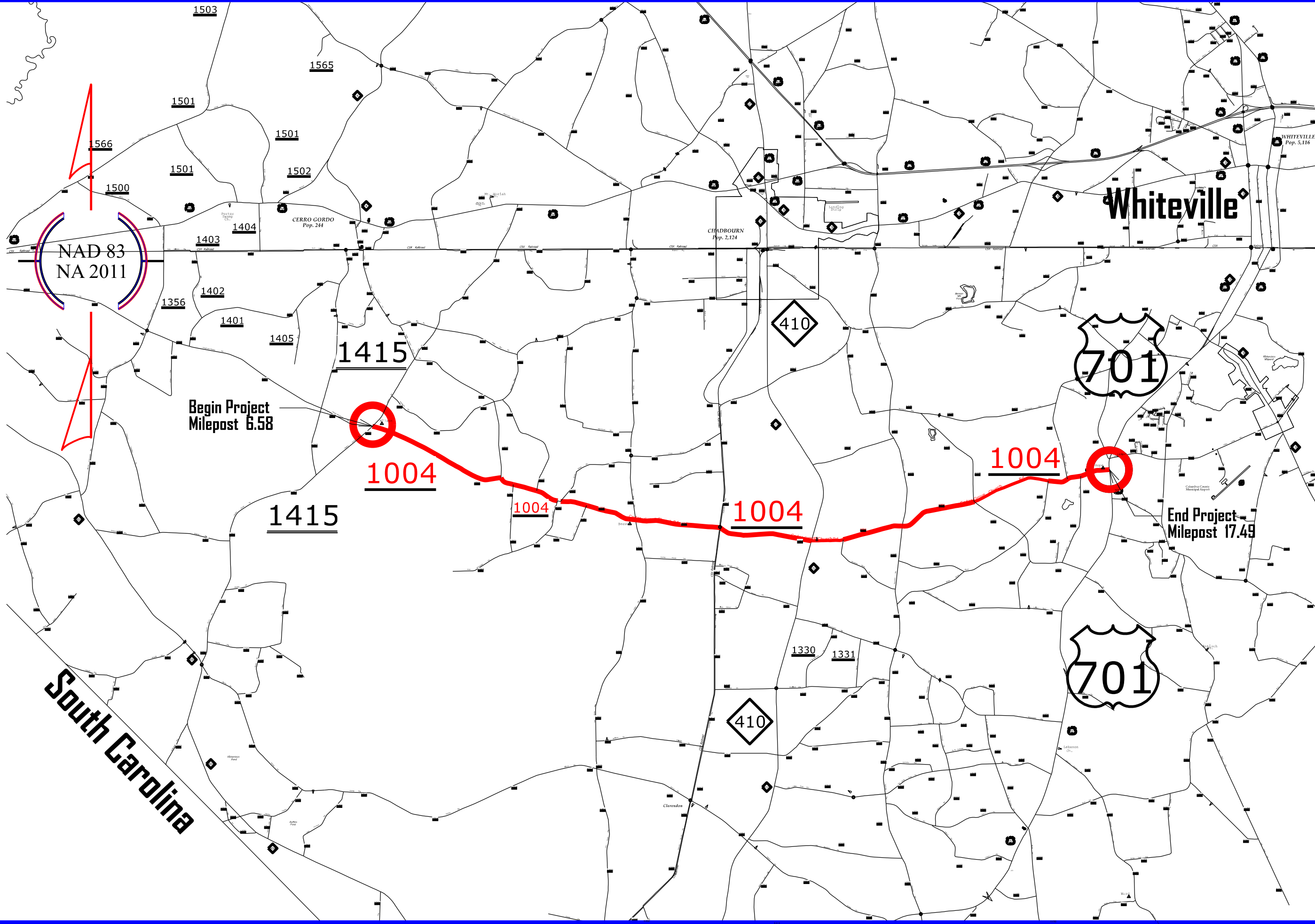
End Project
Milepost 12.87

Begin Project
Mile Post 0.0

Cumberland County
BLADEN COUNTY



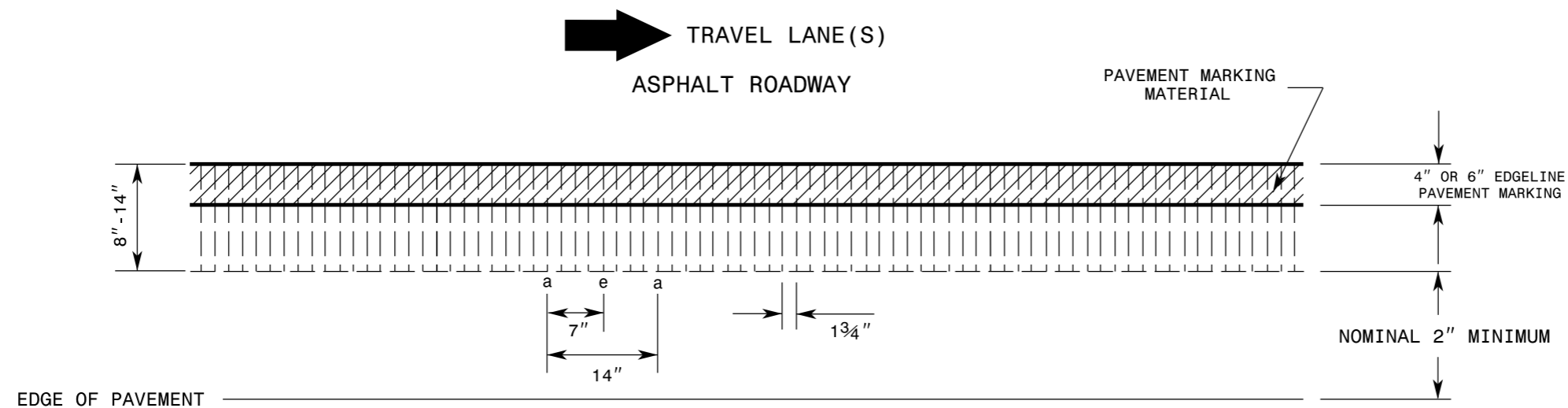
HS-2406Y



County	Map_Number	Route_ID	Description	From	TO	WBS	TIP
Cumberland	1	30000053026	NC 53, BLADEN COUNTY TO FAYETTEVILLE CITY LIMITS. INSTALL 18" CENTERLINE AND 14" EDGELINE RUMBLE STRIPS / STRIPES AND LONG LIFE PAVEMENT MARKINGS AND MARKERS.	0	12.87	50978.1.23	HS-2406U
Columbus	1	40001004024	SR 1004 (ROUGH AND READY ROAD) SR 1415 (DOLPH LEWIS ROAD) TO US 701. INSTALL 8" EDGELINE RUMBLE STRIPS / STRIPES AND LONG LIFE PAVEMENT MARKINGS AND MARKERS. REMOVE AND REPLACE CENTERLINE MARKINGS AND MARKERS.	6.58	17.49	50978.1.27	HS-2406Y

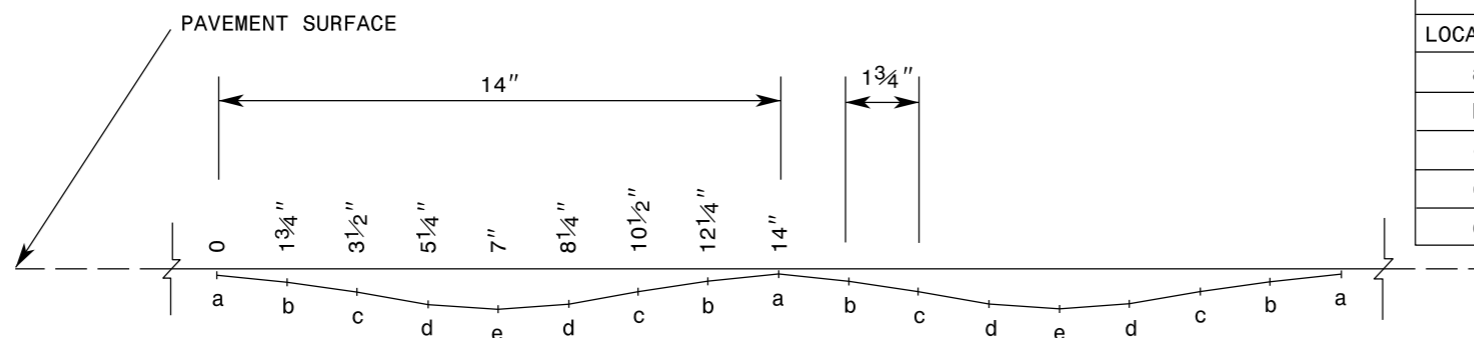
See Table 1 within Rumble Strip Policy for Design Guidance

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

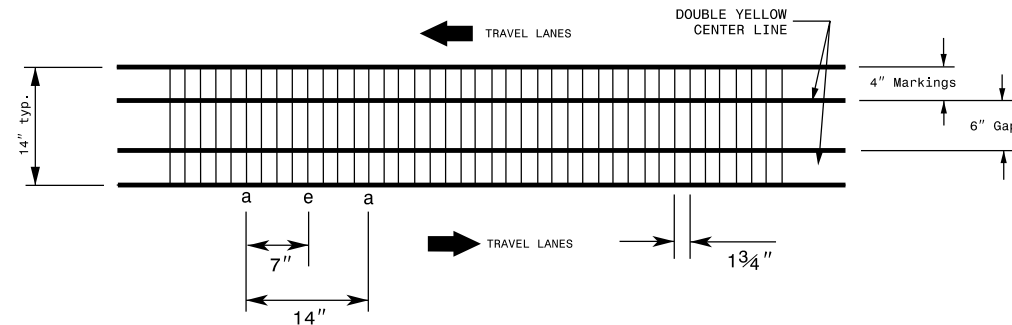
SEE TITLE BLOCK

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

See Table 2 within Rumble Strip Policy for Design Guidance

Rumble Dimensions

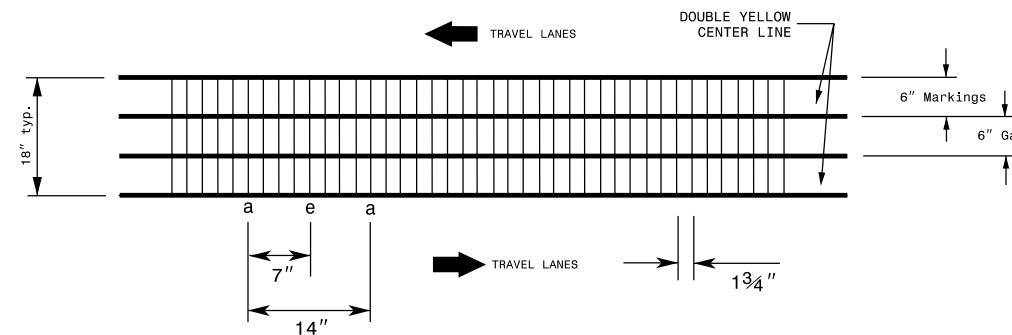
If 4" Markings will be used:



Markings Dimensions

Rumble Dimensions

If 6" Markings will be used:



Markings Dimensions

PROFILE:



REFERENCE DRAWING ID: Sin.CL

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- 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*
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ROADWAY DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
SINUSOIDAL CENTERLINE RUMBLE STRIPE

SHEET 6 OF 9

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