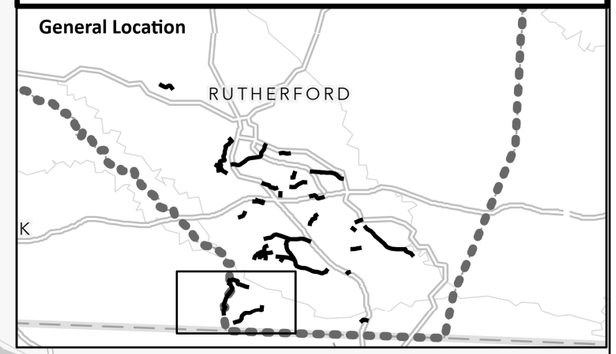
0 0.25 0.5 Miles

WBS - 2025CPT.13.10.20811 Sheet 1

General Location



6

SR-1126

1

SR-1101

McGinnis Crossroads

Sandy Springs

SR-1103

2

Bridge 275

SR-1104

SR-1105

SR-1106

SR-1112

SR-1124

SR-1125

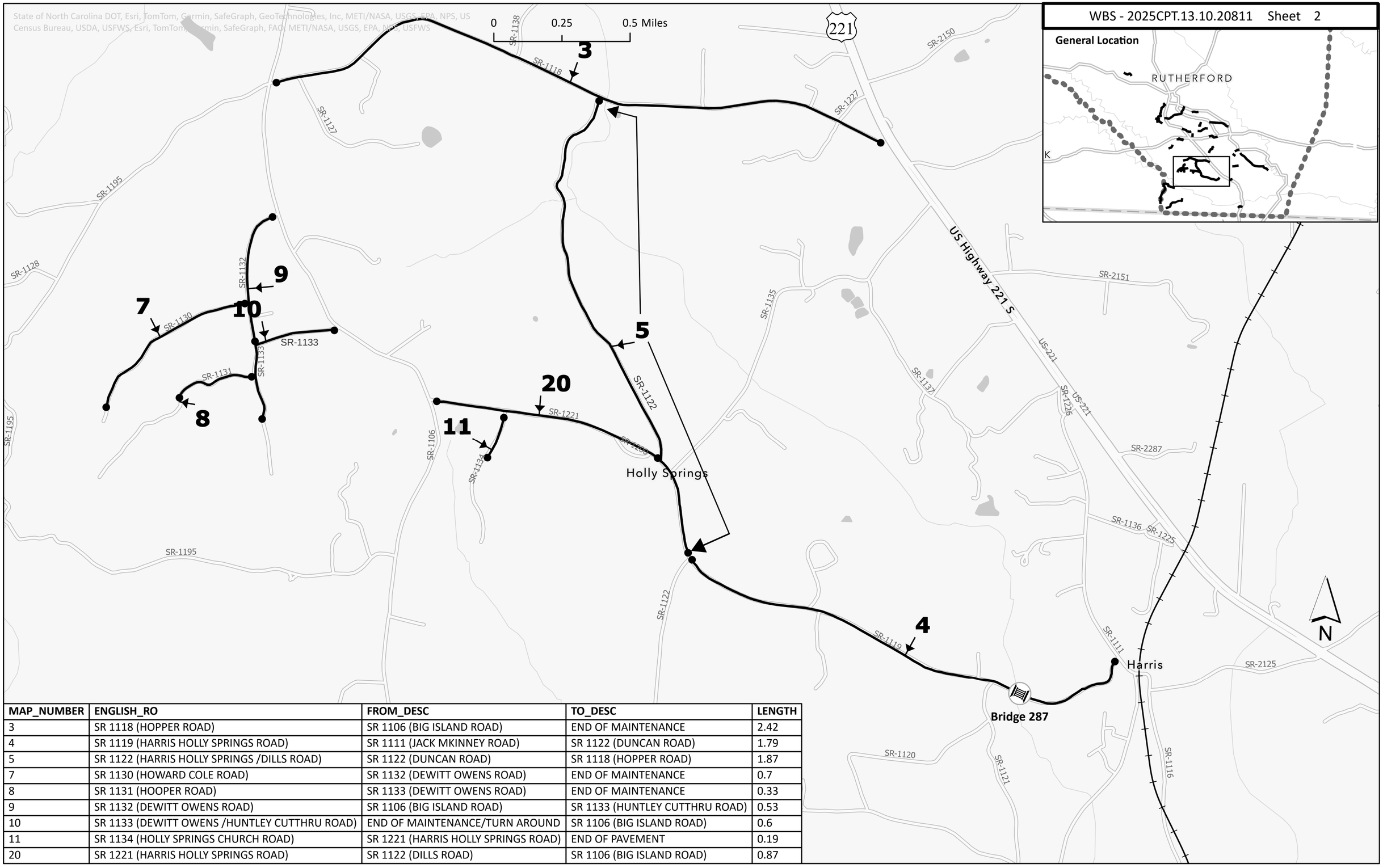
SR-1108

SR-1109

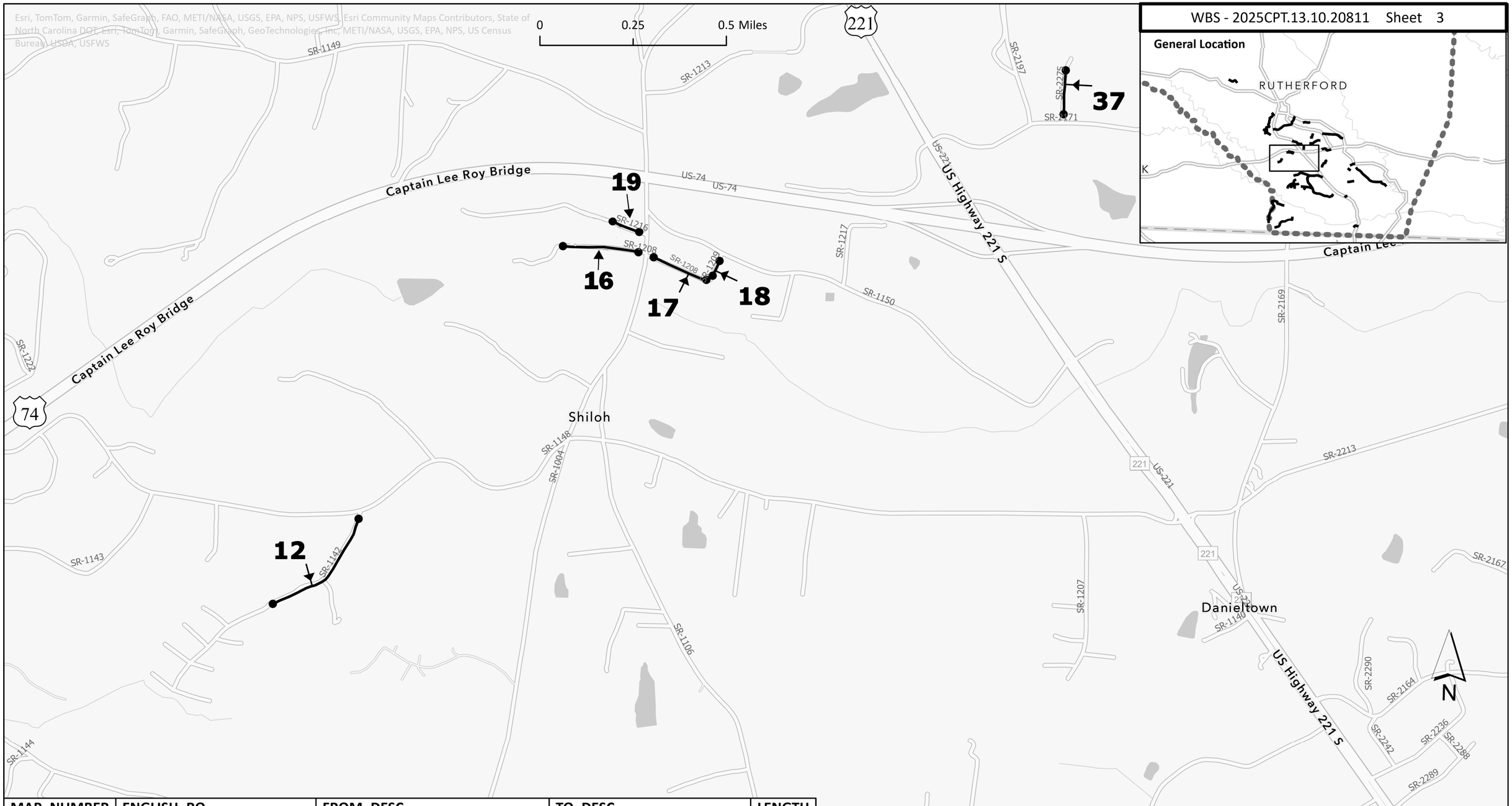
N

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
1	SR 1101 (COUNTY LINE ROAD)	SR 1102 (LAMBS GRILL ROAD)	POLK COUNTY LINE	2.13
2	SR 1104 (TED SMITH ROAD)	SR 1102 (LAMBS GRILL ROAD)	SR 1112 (WV THOMPSON ROAD)	1.99
6	SR 1126 (STACEY ROAD)	POLK COUNTY LINE	END OF MAINTENANCE	1.2

WBS - 2025CPT.13.10.20811 Sheet 2

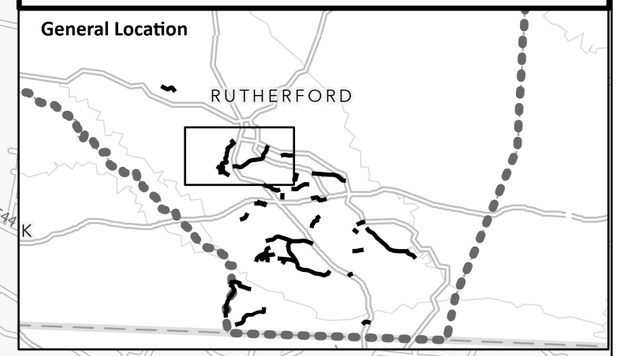


MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
3	SR 1118 (HOPPER ROAD)	SR 1106 (BIG ISLAND ROAD)	END OF MAINTENANCE	2.42
4	SR 1119 (HARRIS HOLLY SPRINGS ROAD)	SR 1111 (JACK MKINNEY ROAD)	SR 1122 (DUNCAN ROAD)	1.79
5	SR 1122 (HARRIS HOLLY SPRINGS /DILLS ROAD)	SR 1122 (DUNCAN ROAD)	SR 1118 (HOPPER ROAD)	1.87
7	SR 1130 (HOWARD COLE ROAD)	SR 1132 (DEWITT OWENS ROAD)	END OF MAINTENANCE	0.7
8	SR 1131 (HOOPER ROAD)	SR 1133 (DEWITT OWENS ROAD)	END OF MAINTENANCE	0.33
9	SR 1132 (DEWITT OWENS ROAD)	SR 1106 (BIG ISLAND ROAD)	SR 1133 (HUNTLEY CUTTHRU ROAD)	0.53
10	SR 1133 (DEWITT OWENS /HUNTLEY CUTTHRU ROAD)	END OF MAINTENANCE/TURN AROUND	SR 1106 (BIG ISLAND ROAD)	0.6
11	SR 1134 (HOLLY SPRINGS CHURCH ROAD)	SR 1221 (HARRIS HOLLY SPRINGS ROAD)	END OF PAVEMENT	0.19
20	SR 1221 (HARRIS HOLLY SPRINGS ROAD)	SR 1122 (DILLS ROAD)	SR 1106 (BIG ISLAND ROAD)	0.87



MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
12	SR 1142 (EPLEY ROAD)	SR 1148 (CLEGHORN MILL ROAD)	END OF MAINTENANCE	0.37
17	SR 1208 (ALLEN LOOP ROAD)	SR 1004 (POORS FORD ROAD)	SR 1209 (ALLEN LOOP ROAD)	0.18
16	SR 1208 (SUNSET DRIVE)	END OF MAINTENANCE	SR 1004 (POORS FORD ROAD)	0.23
18	SR 1209 (ALLEN LOOP ROAD)	SR 1150 (LONG BRANCH ROAD)	SR 1208 (ALLEN LOOP ROAD)	0.07
19	SR 1216 (BUTCHER HOLLAR)	SR 1004 (POORS FORD ROAD)	END OF MAINTENANCE	0.1
37	SR 2275 (AMOS ROAD)	SR 2171 (BURCH HUTCHINS ROAD)	END OF MAINTENANCE	0.14

WBS - 2025CPT.13.10.20811 Sheet 4



0 0.25 0.5 Miles

Rutherfordton

Charlotte Rd

S Main St

CRESTVIEW PARK

College Ave

Main St

US-74 BUS

US-74 ALT

Spindale

E Main St

Highway 74 Byp

US Highway 221 S

14

30

31

36

15

13

N

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
13	SR 1151 (BOB HARDIN ROAD)	SR 1153 (EDWARDS STREET EXTENSION)	SR 1005 (COXE ROAD)	0.79
14	SR 1153 (EDWARDS STREET/EDWARDS STREET EXT)	NC 108	SR 1151 (BOB HARDIN ROAD)	1.83
15	SR 1201 (JONAS SIMS ROAD)	SR 1153 (EDWARDS STREET EXT)	END OF MAINTENANCE	0.42
31	SR 2201 (OAK STREET)	US 74 ALTERNATE	US 74 BUSINESS	0.69
30	SR 2201 (THUNDER ROAD)	US 221	US 74 ALTERNATE	1.64
36	SR 2272 (WATTS ROAD)	SR 2188 (CALLAHAN KOON ROAD)	SR 2169 (OAKLAND ROAD)	0.41

WBS - 2025CPT.13.10.20811 Sheet 5

0 0.25 0.5 Miles

General Location

RUTHERFORD

Spur Aly

Stable Pl

Spur Aly

Reins Run

Roy Huskey Rd

22

SR-1356

Roy Huskey Rd

Bridge 066

SR-1355

Mountain Creek Rd

SR-1373

Mogene Rd

Mountain Creek Rd

Mountain Creek Rd

64

US 64 Hwy

US-64

US 64 Hwy

Cross Creek Dr

Woodstock Ln

S Dakota Dr

Aberdeen Farms Dr

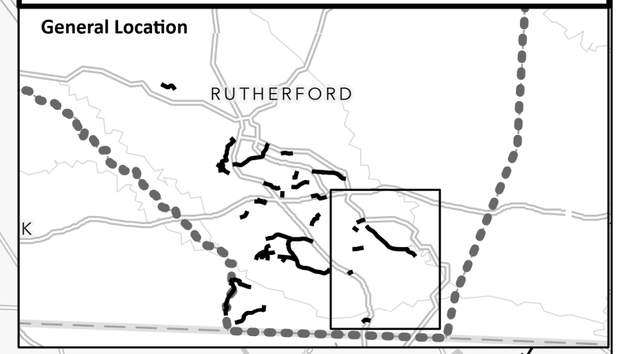
SR-1392

Wilkins Rd

N

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
22	SR 1356 (ROY HUSKEY ROAD)	SR 1355 (MOUNTAIN CREEK ROAD)	END OF MAINTENANCE	0.71

WBS - 2025CPT.13.10.20811 Sheet 6



0 0.25 0.5 Miles

US Highway 74

US Highway 221A

US Highway 221 S

CHASE COMMUNITY PARK

Caroleen

Henrietta

Sandy Mush

Alexander Mills

Brice

Bridge 025

23 and 42

24

21

38

34

32

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
21	SR 1223 (SOUTH RIVER ROAD)	END OF MAINTENANCE	US 221	0.27
23 and 42	SR 2129 (OLD HENRIETTA ROAD)	SR 2125 (HARRIS HENRIETTA ROAD)	SR 2210 (CHASE HIGH ROAD)	3.2
24	SR 2155 (PHILLIPS DRIVE)	US 221 ALTERNATE	END OF MAINTENANCE	0.26
32	SR 2230 (NEW JERUSALEM CHURCH ROAD)	US 221	PAVEMENT JOINT	0.06
34	SR 2265 (KAY STREET)	SR 2153 (MCSWAIN ROAD)	END OF MAINTENANCE	0.11
38	SR 2285 (FLAT ROCK ROAD)	SR 2210 (CHASE HIGH ROAD)	END OF MAINTENANCE	0.38

WBS - 2025CPT.13.10.20811 Sheet 7

General Location

RUTHERFORD

0 0.25 0.5 Miles

26

35

25

Captain Lee Roy Bridge

Bridge 050

Danieltown

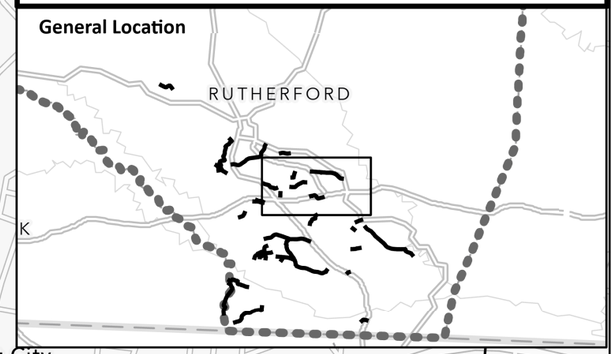
US Highway 221 S

N

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
25	SR 2166 (BOSTIC ROAD)	SR 2164 (TANNERS GROVE ROAD)	SR 2152 (MORNINGSTAR LAKE ROAD)	0.71
26	SR 2172 (GRAYSON BOSTIC ROAD)	END OF PAVEMENT	SR 2213 (BETHANY CHURCH ROAD)	0.23
35	SR 2267 (MICHAEL DRIVE)	SR 2159 (DOGGETT DRIVE)	CUL DE SAC	0.34

WBS - 2025CPT.13.10.20811 Sheet 8

General Location



0 0.25 0.5 Miles

33 41 28 40 39 27 29 26 35 37

College Ave

Forest City

S Broadway St

US Highway 74

Captain Lee Roy Bridge

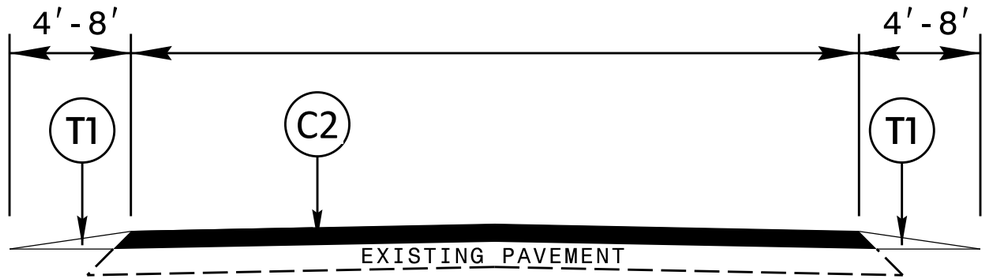
US Highway 221 S

Alexander Mills

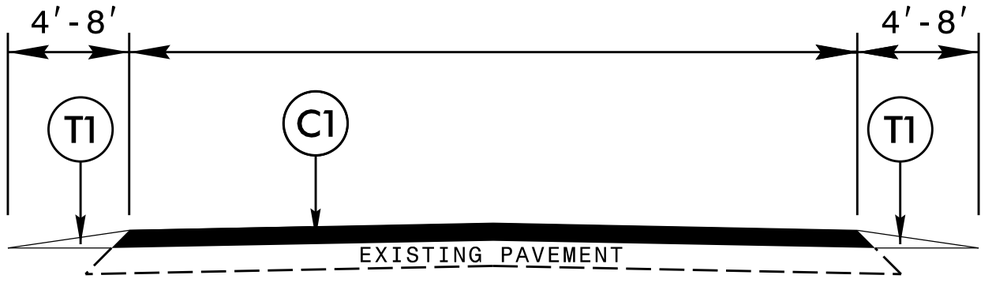
N

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
26	SR 2172 (GRAYSON BOSTIC ROAD)	END OF PAVEMENT	SR 2213 (BETHANY CHURCH ROAD)	0.23
41	SR 2179 (OAK STREET) DIVIDED HEADING EAST	SR 2179 (BUTLER ROAD)	INTERSECTION WITH SR 2179 (OAK STREET)	0.14
28	SR 2179 (OAK STREET)	US 221	SR 2179 (BUTLER ROAD)	1.25
40	SR 2179 (OAK STREET) DIVIDED HEADING EAST	YOUNG STREET (TOWN ROAD)	US 221 (SOUTH BROADWAY)	0.44
27	SR 2179 (SUNSET MEMORIAL ROAD)	SR 2198 (GRIFFIN ROAD)	SR 2169 (OAKLAND ROAD)	0.82
29	SR 2196 (DUNCARD CHURCH ROAD)	US 221	SR 2190 (CROWE DAIRY ROAD)	0.78
33	SR 2241 (OAK STREET)	74 ALTERNATE	(SR 2179 (BUTLER ROAD	0.44
35	SR 2267 (MICHAEL DRIVE)	SR 2159 (DOGGETT DRIVE)	CUL DE SAC	0.34
37	SR 2275 (AMOS ROAD)	SR 2171 (BURCH HUTCHINS ROAD)	END OF MAINTENANCE	0.14
39	SR 2293 (STONEYBROOK DRIVE)	SR 2159 (PINEY RIDGE ROAD)	END OF MAINTENANCE	0.34

PROJECT NO.	SHEET NO.
2025CPT.13.10.20811	9



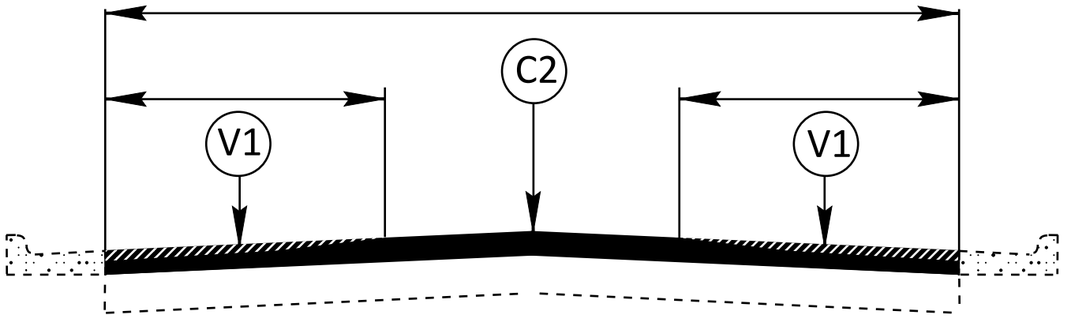
TYPICAL SECTION #1



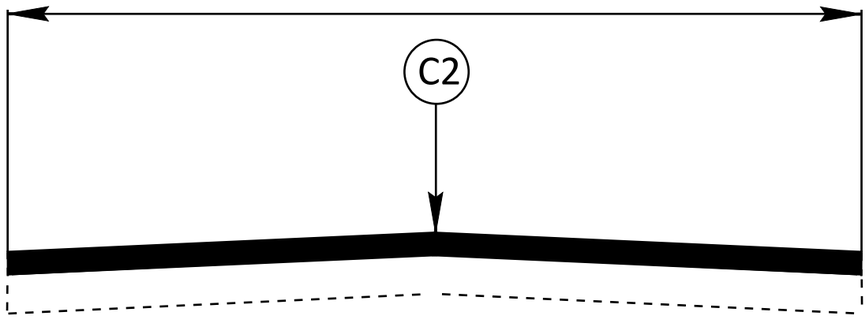
TYPICAL SECTION #**2**

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT 0" TO 1-1/2" DEPTH
V3	INCDIDENTAL MILLING

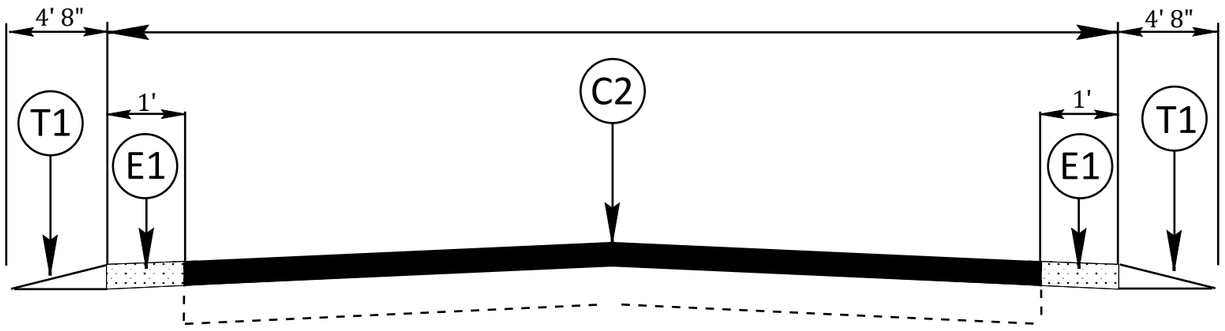
PROJECT NO.	SHEET NO.
2025CPT.13.10.20811	10



TYPICAL SECTION #3



TYPICAL SECTION #4

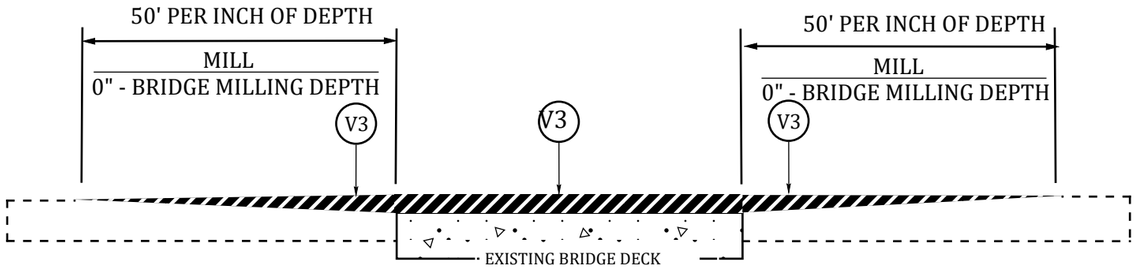


TYPICAL SECTION #5

* Note wideing is to be paid for under 51576

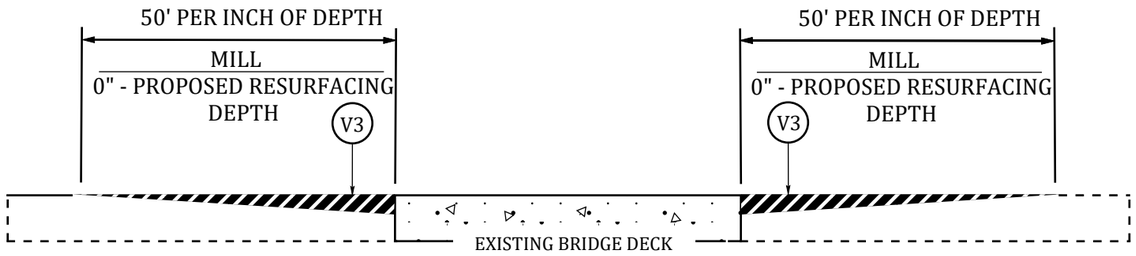
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT 0" TO 1-1/2" DEPTH
V3	INCIDENTAL MILLING

PROJECT NO.	SHEET NO.
2025CPT.13.10.20811	11



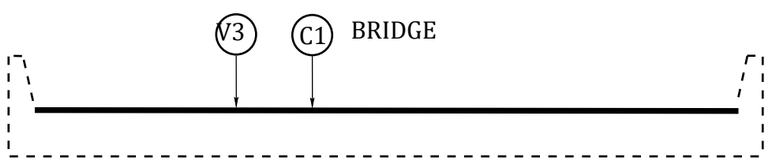
MILLING DETAIL AT BRIDGE APPROACHES

WHERE BRIDGES WILL BE MILLED THEN RESURFACED.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.
USE AT BRIDGE NUMBER: 1119 MAP 4.



MILLING DETAIL AT BRIDGE APPROACHES

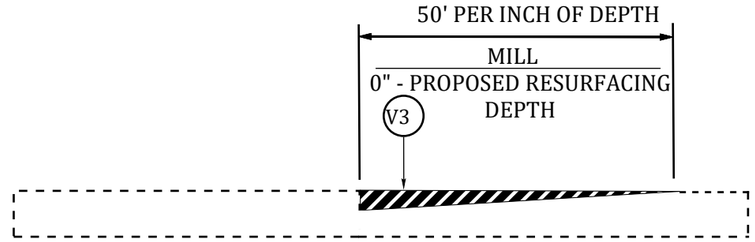
WHERE BRIDGES WILL NOT BE RESURFACED.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.
USE AT BRIDGE NUMBER: 275 MAP 2, 066 MAP 2,
AND 055 MAP 25.



* COORDINATE WITH BRIDGE MAINTENANCE DURING MILLING OPERATION TO INSPECT FOR ANY CONCRETE DECK REPAIRS.

BRIDGE DETAIL

WHERE BRIDGES WILL BE MILLED THEN RESURFACED.
THIS WILL BE PAID FOR AS INCIDNTAL MILLING.
USE AT BRIDGE NUMBER: 287 MAP 4.

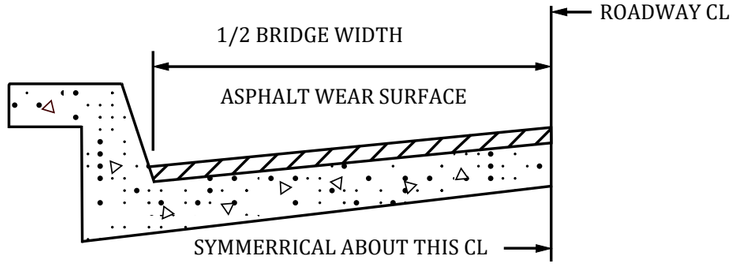


MILLING DETAIL TO TIE INTO EXIST PAVEMENT

THE CONTRACTOR'S ATTENTION IS DIRECTED TO
THE FACT THAT HE WILL BE REQUIRED TO MILL
THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER
TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END
AND Y LINES OF EACH MAP TO BE RESURFACED WITH
ASPHALT CONC SURFACE COURSE, TYPE 9.5B OR S9.5C.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT 0" TO 1-1/2" DEPTH
V3	INCIDENTAL MILLING

PROJECT NO.	SHEET NO.
2025CPT.13.10.20811	12



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.

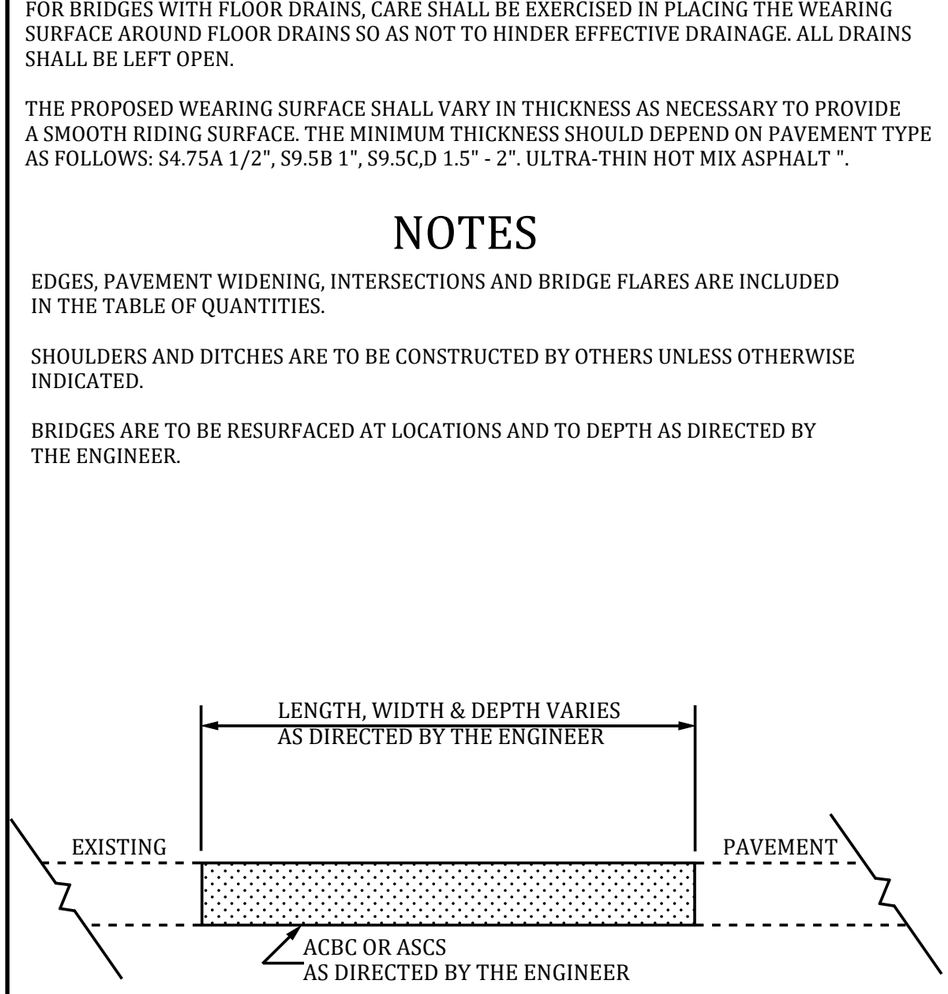
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1/2", S9.5B 1", S9.5C,D 1.5" - 2". ULTRA-THIN HOT MIX ASPHALT ".

NOTES

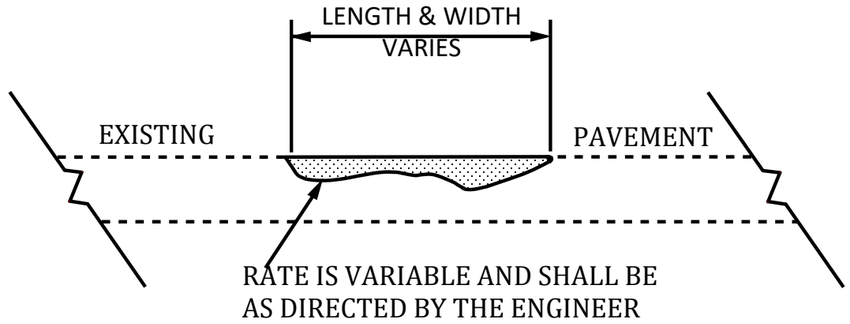
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.

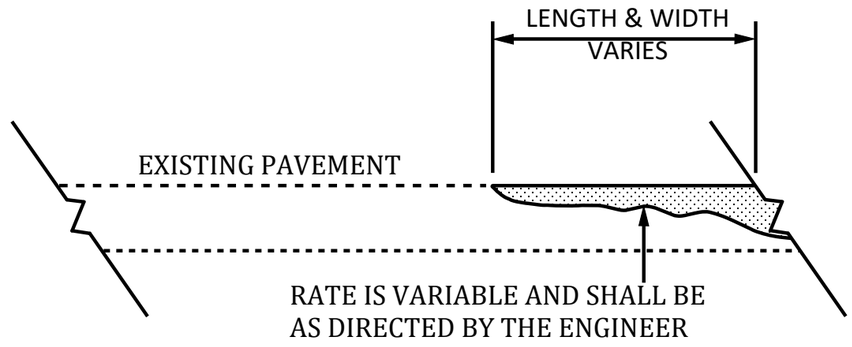
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED.

BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



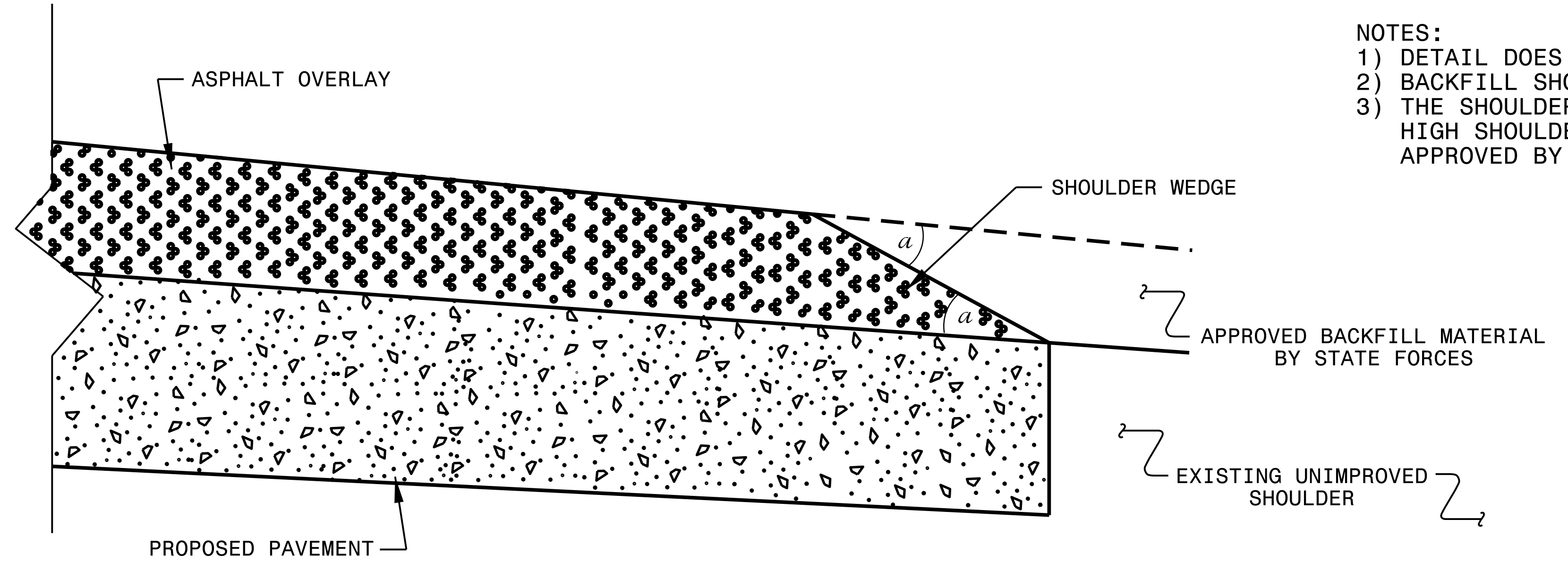
PATCHING EXISTING PAVEMENT





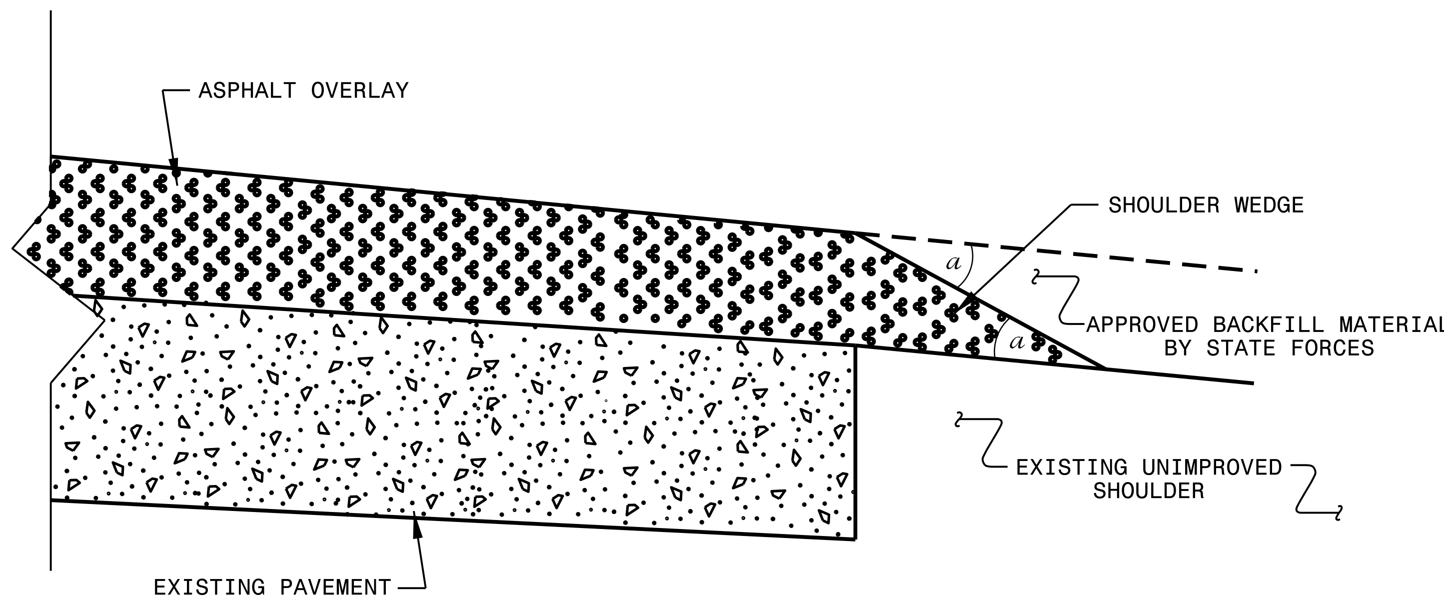
DETAIL SHOWING METHOD OF WEDGING

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, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



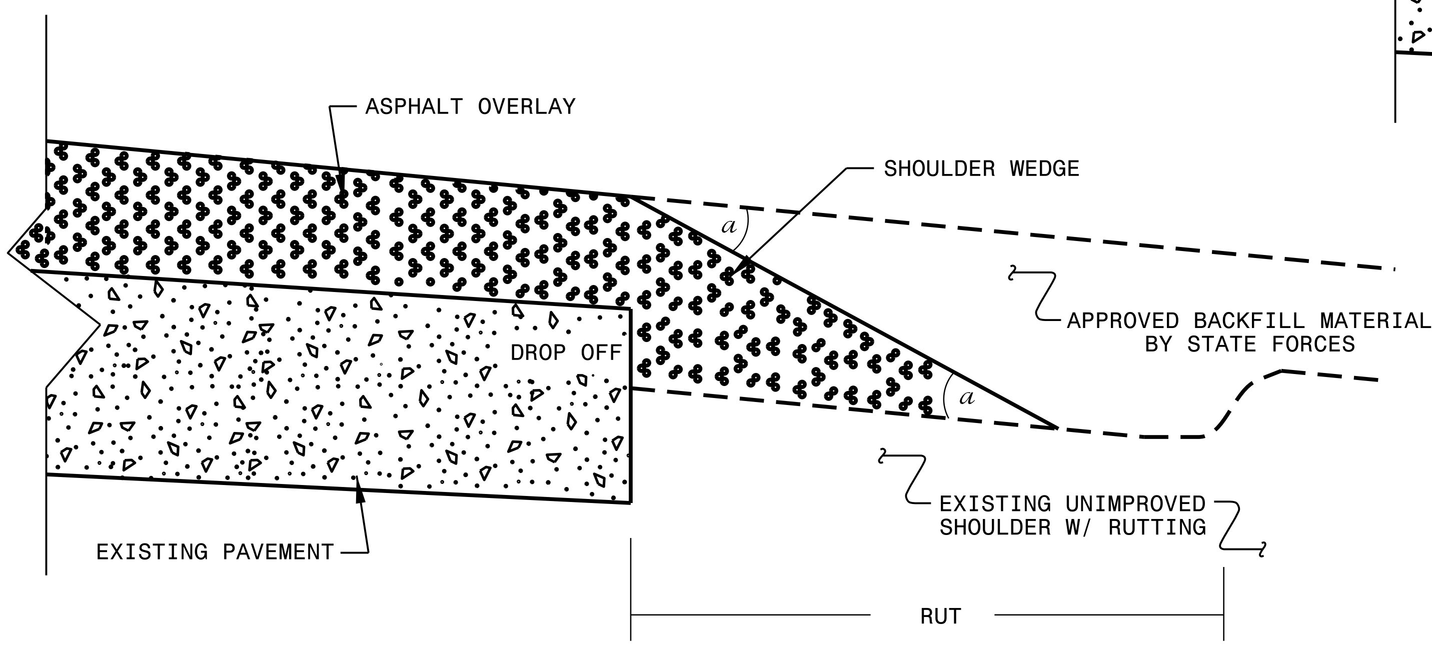
SHOULDER WEDGE DETAIL

(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)

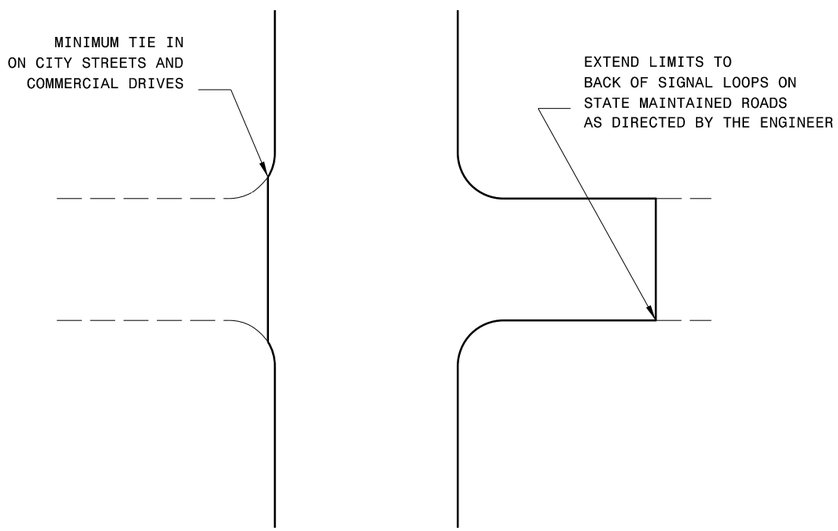
- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

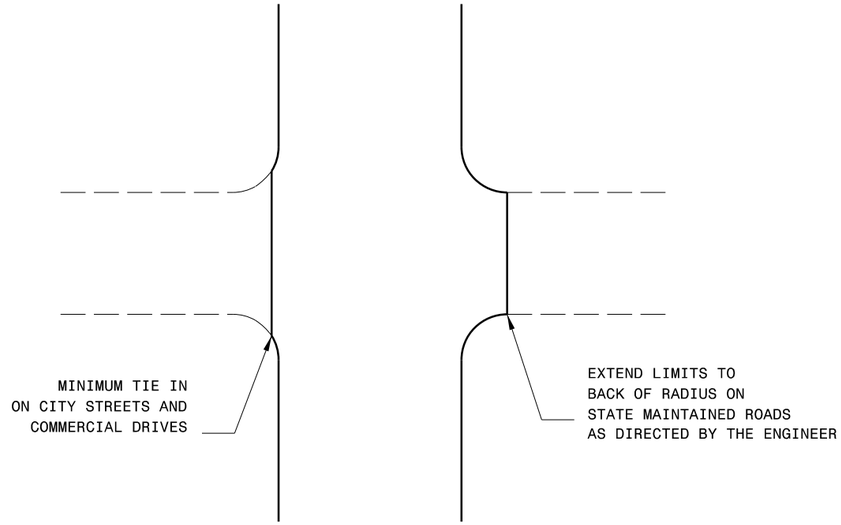
SHOULDER WEDGE DETAILS

ORIGINAL BY: T.SPELL DATE: 7-19-11
MODIFIED BY: DATE: 10/16/12
CHECKED BY: DATE:
FILE SPEC.: s:usr/details/stand/shoulderwedgedetail.dgn

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.13.10.20811	14



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

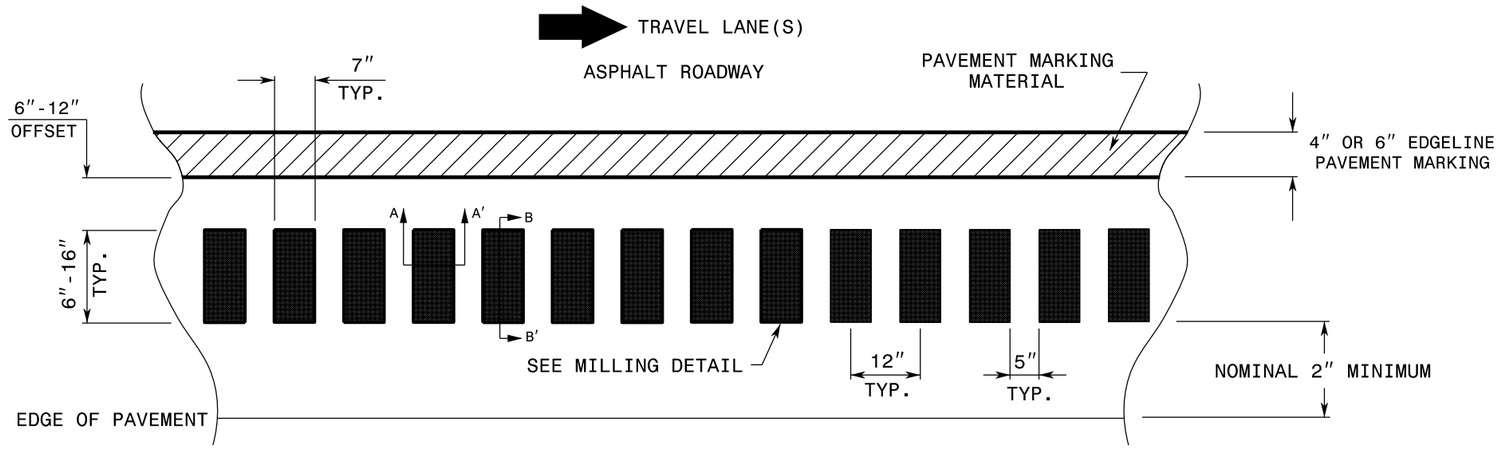
ADDITIONAL INTERSECTIONS (NON-TYPICAL)		
Extend paving limits to back of radius or loop on the following intersections:		
MAP#	STREET NAME	COMMENTS
ALL MAPS	ALL STREETS	50' TYPICAL
		EXTEND PAVING LIMITS PAST BACK OF INITIAL
		SET OF SIGNAL LOOPS OR CONCRETE ISLAND
		5' WHEN PRESENT ON SR ROADS AS DIRECTED
		BY ENGINEER
		FOLLOW DETAILS ABOVE FOR TIE - INS ON ALL
		CITY STREETS AND COMMERCIAL DRIVES

PROJECT NO.	SHEET NO.
2025CPT.13.10.20811	15

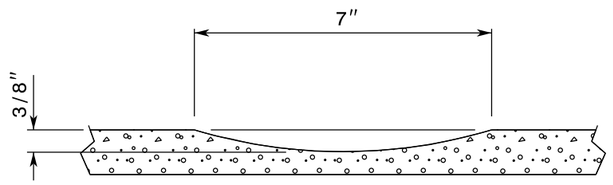
BRIDGE DATA

Map No.	Route No.	Route Name	Bridge No.	Posted SV	Posted TSS	Recommended Treatment, From Bridge Maintenance
2	1104	Ted Smith Rd	275			Do not pave
4	1119	Harris Holly Springs Rd	287			Mill/Pave - Contact BMU after milling if any concrete deck repairs are needed before resurfaced.
22	1356	Roy Huskey Rd	066			Do not pave
25	2166	Bostic Rd	055			Do not pave

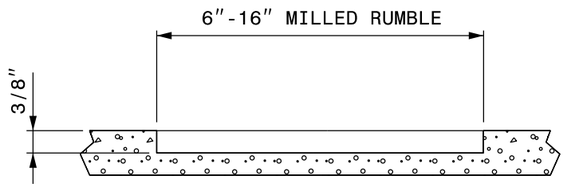
See Table 1 within Rumble Strip Policy for Design Guidance



MILLING DETAIL:



SECTION A-A′



SECTION B-B′

REFERENCE DRAWING ID: Trad.Strip

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

ROADWAY DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
TRADITIONAL SHOULDER RUMBLE STRIP

SHEET 1 OF 9

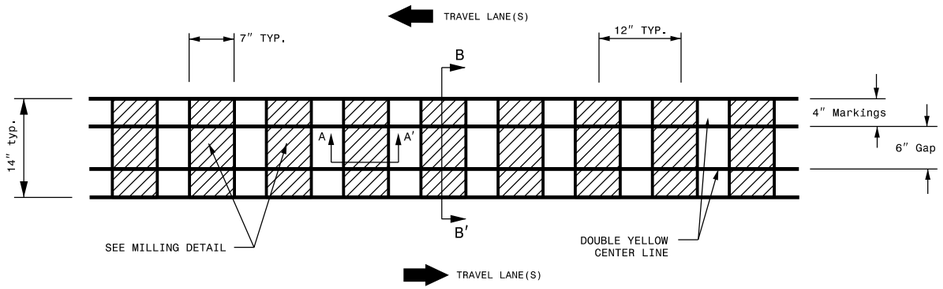
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

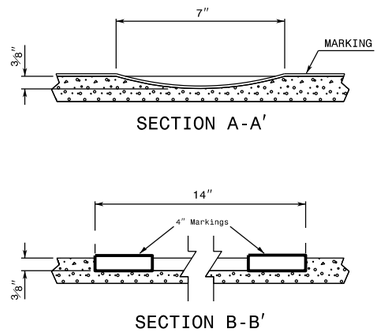
ORIGINAL BY: C. SIMPSON DATE: 04-24-2025
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

See Table 2 within Rumble Strip Policy for Design Guidance

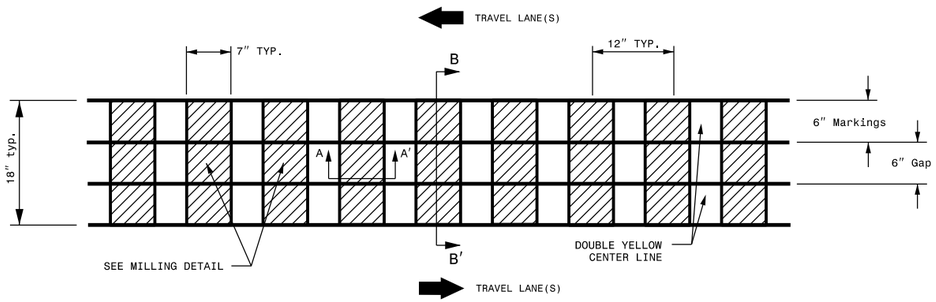
If 4″ Markings will be used:



MILLING DETAIL - 4″ Markings



If 6″ Markings will be used:



MILLING DETAIL - 6″ Markings

REFERENCE DRAWING ID: Trad.CL

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.

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

ROADWAY DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
TRADITIONAL CENTERLINE RUMBLE STRIPE

SHEET 5 OF 9

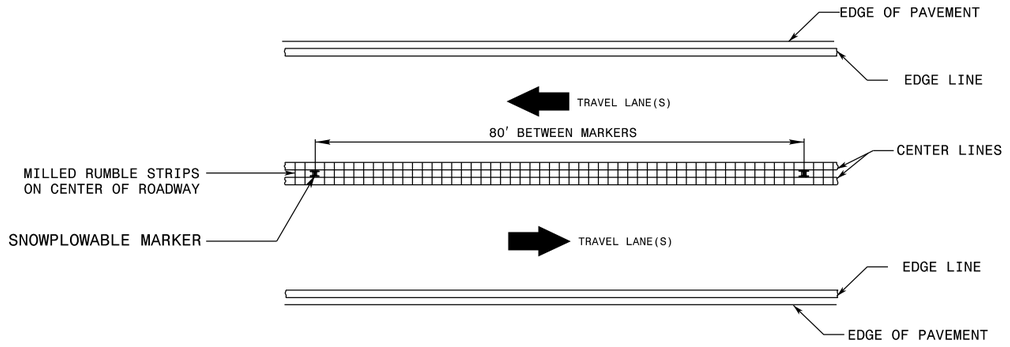
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

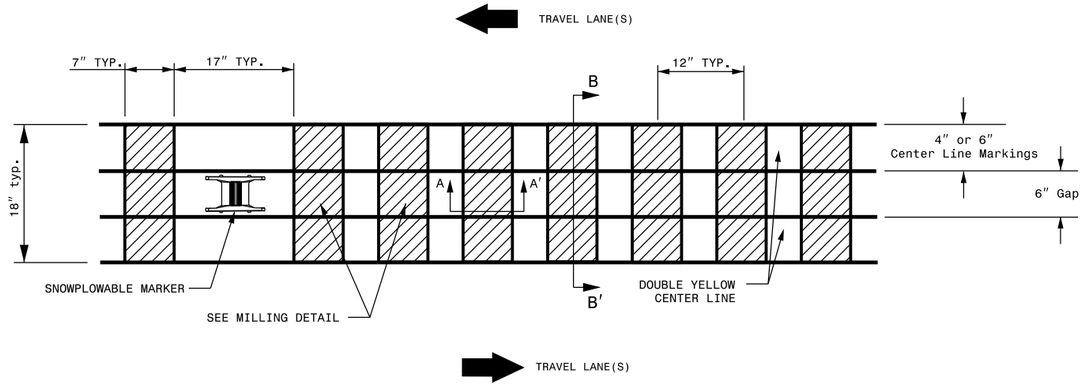
ORIGINAL BY: C. SIMPSON DATE: 04-24-2025
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

See Table 2 within Rumble Strip Policy for Design Guidance

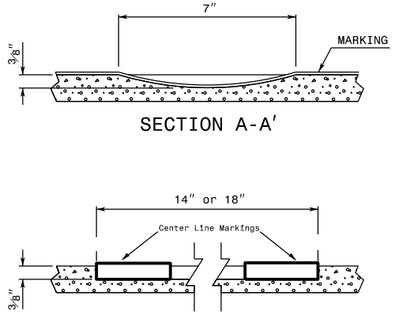
LANE TREATMENT



CENTER LINE



MILLING DETAIL



REFERENCE DRAWING ID: Trad.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

TRADITIONAL CENTERLINE RUMBLE STRIPE WITH SNOWPLOWABLE MARKERS

SHEET 7 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.: _____

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.13.10.20811, 51576	19	

SUMMARY OF QUANTITIES

													1220000000-E	1245000000-E	1260000000-E	1308000000-E	1330000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	1841000000-E	1881000000-E	2830000000-N	2845000000-N	2846000000-N	7444000000-E	7456100000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 0" TO 1-1/2"	INCIDENTAL MILLING	ASPHALT CONC BASE COURSE, TYPE B25.0C	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	LEVELING COURSE, TYPE S9.5B	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	LEVELING COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	MILLED RUMBLE STRIPS (AC) 6"	CENTERLINE MILLED RUMBLE STRIPS (AC) 14"	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	ADJUSTMENT OF OVERSIZED MANHOLES	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
								MI	FT				TON	SMI	TON	SY	SY	TONS	TON	TONS	TON	TONS	TON	TON	LF	LF	EA	EA	EA	LF	LF
2025CPT.13.10.20811	Rutherford	1	SR 1101 (COUNTY LINE ROAD)	FROM SR 1102 (LAMBS GRILL ROAD) TO POLK COUNTY LINE	1	2	2WU	2.13	20	0.01	2.14		55	4.26	554		888				2,146	20	132	91							
2025CPT.13.10.20811	Rutherford	2	SR 1104 (TED SMITH ROAD)	FROM SR 1102 (LAMBS GRILL ROAD) TO SR 1112 (WV THOMPSON ROAD)	1	2	2WU	1.99	19	0.01	2		86	4.00	260		675				2,006	25	124	82							
2025CPT.13.10.20811	Rutherford	3	SR 1118 (HOPPER ROAD)	FROM SR 1106 (BIG ISLAND ROAD) TO END OF MAINTENANCE	1	2	2WU	2.42	19	0.01	2.43		203	4.86	632		450				2,436	100	154	89							
2025CPT.13.10.20811	Rutherford	4	SR-1119 (HARRIS HOLLY SPRINGS ROAD)	FROM SR 1111 (JACK MKINNEY ROAD) TO SR 1122 (DUNCAN ROAD)	2	2	2WU	1.79	19	0.01	1.8		62	3.58	465		600		1,499				108	212							
2025CPT.13.10.20811	Rutherford	5	SR 1122 (HARRIS HOLLY SPRINGS/ DILLS ROAD)	FROM SR 1122 (DUNCAN ROAD) TO SR 1118 (HOPPER ROAD)	2	2	2WU	1.87	18	2.48	4.35		74	3.74	486		444		1,489				104	160							
2025CPT.13.10.20811	Rutherford	6	SR 1126 (STACEY ROAD)	FROM POLK COUNTY LINE TO END OF MAINTENANCE	2	2	2WU	1.2	18	0	1.2		40	2.40	312		250		950	30			66	53							
2025CPT.13.10.20811	Rutherford	7	SR 1130 (HOWARD COLE ROAD)	FROM SR 1132 (DEWITT OWENS ROAD) TO END OF MAINTENANCE	2	2	2WU	0.7	18	0	0.7		22	1.40	182				616				41	17							
2025CPT.13.10.20811	Rutherford	8	SR 1131 (HOOPER ROAD)	FROM SR 1133 (DEWITT OWENS ROAD) TO END OF MAINTENANCE	2	2	2WU	0.33	20	0	0.33		15	0.66	86				304				20	10							
2025CPT.13.10.20811	Rutherford	9	SR 1132 (DEWITT OWENS ROAD)	FROM SR 1106 (BIG ISLAND ROAD) TO SR 1133 (HUNTLEY CUTTHRU ROAD)	2	2	2WU	0.53	20	0.01	0.54		20	1.06	138		250		482	12			33	22							
2025CPT.13.10.20811	Rutherford	10	SR 1133 (DEWITT OWENS/HUNTLEY CUTTHRU ROAD)	FROM END OF MAINTENANCE/TURN AROUND TO SR 1106 (BIG ISLAND ROAD)	2	2	2WU	0.6	20	0	0.6		25	1.20	156		250		535	10			37	29							
2025CPT.13.10.20811	Rutherford	11	SR 1134 (HOLLY SPRINGS CHURCH ROAD)	FROM SR 1221 (HARRIS HOLLY SPRINGS ROAD) TO END OF PAVEMENT	2	2	2WU	0.19	18	0.01	0.2		5	0.37	96				158				11	17							
2025CPT.13.10.20811	Rutherford	12	SR 1142 (EPLEY ROAD)	FROM SR 1148 (CLEGHORN MILL ROAD) TO END OF MAINTENANCE	2	2	2WU	0.37	18	0.01	0.38		25	0.76	99		250		301				20	12							
2025CPT.13.10.20811	Rutherford	13	SR 1151 (BOB HARDIN ROAD)	FROM SR 1153 (EDWARDS STREET EXTENSION) TO SR 1005 (COXE ROAD)	1	2	2WU	0.79	20	0	0.79		30	1.60	205		885				853	10	52	30				2			
2025CPT.13.10.20811	Rutherford	14	SR 1153 (EDWARDS STREET/EDWARDS STREET EXT)	FROM NC 108 TO SR 1151 (BOB HARDIN ROAD)	1&3	2	2WU	1.83	20	0.01	1.84		66	3.42	445	915	700				1,943	10	118	55			5	8		234	30
2025CPT.13.10.20811	Rutherford	15	SR 1201 (JONAS SIMS R0AD)	FROM SR 1153 (EDWARDS STREET EXT) TO END OF MAINTENANCE	2	2		0.42	18	0.01	0.43		18	0.90	117		250		370				25	11							
2025CPT.13.10.20811	Rutherford	16	SR 1208 (SUNSET DRIVE)	FROM END OF MAINTENANCE TO SR 1004 (POORS FORD ROAD)	2	2	2WU	0.23	20	0	0.23		8	0.48	62		250		218				15	18							
2025CPT.13.10.20811	Rutherford	17	SR 1208 (ALLEN LOOP ROAD)	FROM SR 1004 (POORS FORD ROAD) TO SR 1209 (ALLEN LOOP ROAD)	2	2	2WU	0.18	18	0.25	0.43		10	0.38	49		250		150				10	15							
2025CPT.13.10.20811	Rutherford	18	SR 1209 (ALLEN LOOP ROAD)	FROM SR 1150 (LONG BRANCH ROAD) TO SR 1208 (ALLEN LOOP ROAD)	2	2	2WU	0.07	18	0.01	0.08		6	0.14	18		250		64				5	15							
2025CPT.13.10.20811	Rutherford	19	SR 1216 (BUTCHER HOLLAR)	FROM SR 1004 (POORS FORD ROAD) TO END OF MAINTENANCE	2	2	2WU	0.1	20	0.01	0.11		8	0.20	26		250		90				7	15							
2025CPT.13.10.20811	Rutherford	20	SR 1221 (HARRIS HOLLY SPRINGS ROAD)	FROM SR 1122 (DILLS ROAD) TO SR 1106 (BIG ISLAND ROAD)	2	2	2WU	0.87	19	0	0.87		40	1.74	226		675		755				50	27							

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.13.10.20811, 51576	20	

SUMMARY OF QUANTITIES

												1220000000-E	1245000000-E	1260000000-E	1308000000-E	1330000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	1841000000-E	1881000000-E	2830000000-N	2845000000-N	2846000000-N	7444000000-E	7456100000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 0" TO 1-1/2"	INCIDENTAL MILLING	ASPHALT CONC BASE COURSE, TYPE B25.0C	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	LEVELING COURSE, TYPE S9.5B	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	LEVELING COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	MILLED RUMBLE STRIPS (AC) 6"	CENTERLINE MILLED RUMBLE STRIPS (AC) 14"	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	ADJUSTMENT OF OVERSIZED MANHOLES	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
								MI	FT			TON	SMI	TON	SY	SY	TONS	TON	TONS	TON	TONS	TON	TON	LF	LF	EA	EA	EA	LF	LF
2025CPT.13.10.20811	Rutherford	21	SR 1223 (SOUTH RIVER ROAD)	FROM END OF MAINTENANCE TO US 221	2	2	2WU	0.27	18	0	0.27	18	0.52	68		250		214				15	23							
2025CPT.13.10.20811	Rutherford	22	SR 1356 (ROY HUSKEY ROAD)	FROM SR 1355 (MOUNTAIN CREEK ROAD) TO END OF MAINTENANCE	2	2	2WU	0.71	18	0.01	0.72	14	1.44	187		450		570				38	15							
2025CPT.13.10.20811	Rutherford	23	SR 2129 (OLD HENRIETTA ROAD)	FROM SR 2125 (HARRIS HENRIETTA ROAD) TO SR 2210 (CHASE HIGH ROAD)	4	2	2WU	3.2	20	0.01	3.21	192				4,110				3,041		180	17				3			
2025CPT.13.10.20811	Rutherford	24	SR 2155 (PHILLIPS DRIVE)	FROM US 221 ALTERNATE TO END OF MAINTENANCE	2	2	2WU	0.26	14	0.01	0.27	32	0.52	68		220		168				12	20							
2025CPT.13.10.20811	Rutherford	25	SR 2166 (BOSTIC ROAD)	FROM SR 2164 (TANNERS GROVE ROAD) TO SR 2152 (MORNINGSTAR LAKE ROAD)	2	2	2WU	0.71	19	0.01	0.72	17	1.46	189		450		611	20			44	72							
2025CPT.13.10.20811	Rutherford	26	SR 2172 (GRAYSON BOSTIC ROAD)	FROM END OF PAVEMENT TO SR 2213 (BETHANY CHURCH ROAD)	2	2	2WU	0.23	20	0	0.23	18	0.48	62		250		209				14	14							
2025CPT.13.10.20811	Rutherford	27	SR 2179 (SUNSET MEMORIAL ROAD)	FROM SR 2198 (GRIFFIN ROAD) TO SR 2169 (OAKLAND ROAD)	2	2	2WU	0.82	19	2.42	3.24	26	1.68	218		867		704	10			48	28							
2025CPT.13.10.20811	Rutherford	28	SR 2179 (OAK STREET)	FROM US 221 TO SR 2179 (BUTLER ROAD)	3	2	MU	1.25	49	0.02	1.27				6,156	1,866				3,371		199				4	8	2	2,490	500
2025CPT.13.10.20811	Rutherford	29	SR 2196 (DUNCARD CHURCH ROAD)	FROM US 221 TO SR 2190 (CROWE DAIRY ROAD)	2	2	2WU	0.78	18	0.02	0.8	18	1.60	208		450		625	10			43	31							
2025CPT.13.10.20811	Rutherford	30	SR 2201 (THUNDER ROAD)	FROM US 221 TO US 74 ALTERNATE	1	2	2WU	1.64	21	0.01	1.65	20	3.28	429		650			20	1,827		111	50						564	50
2025CPT.13.10.20811	Rutherford	31	SR 2201 (OAK STREET/THUNDER ROAD)	FROM US 74 ALTERNATE TO US 74 BUSINESS	3	2	MU	0.69	44	1.69	2.38				4,856	888				1,603		95	11				1		672	270
2025CPT.13.10.20811	Rutherford	32	SR 2230 (NEW JERUSALEM CHURCH ROAD)	FROM US 221 TO PAVEMENT JOINT	1	2	2WU	0.05	18	0.02	0.07	2	0.10	13						65		4	11							
2025CPT.13.10.20811	Rutherford	33	SR 2241 (OAK STREET)	FROM 74 ALTERNATE TO (SR 2179 (BUTLER ROAD	3	2	MU	0.44	50	0.68	1.12				3,080	650				1,467		87							108	250
2025CPT.13.10.20811	Rutherford	34	SR 2265 (KAY STREET)	FROM SR 2153 (MCSWAIN ROAD) TO END OF MAINTENANCE	2	2	2WU	0.11	18	0.01	0.12	4	0.24	31		250		111				8	10				2			
2025CPT.13.10.20811	Rutherford	35	SR 2267 (MICHAEL DRIVE)	FROM SR 2159 (DOGGETT DRIVE) TO CUL DE SAC	2	2	2WU	0.34	20	0.01	0.35	6	0.70	91		250		318	10			22	12							
2025CPT.13.10.20811	Rutherford	36	SR 2272 (WATTS ROAD)	FROM SR 2188 (CALLAHAN KOON ROAD) TO SR 2169 (OAKLAND ROAD)	1	2	2WU	0.41	24	0.01	0.42	4	0.82	106		560				542		33	21			1	1			
2025CPT.13.10.20811	Rutherford	37	SR 2275 (AMOS ROAD)	FROM SR 2171 (BURCH HUTCHINS ROAD) TO END OF MAINTENANCE	2	2	2WU	0.14	16.5	0.01	0.15	10	0.28	36		250		110				8	11							
2025CPT.13.10.20811	Rutherford	38	SR 2285 (FLAT ROCK ROAD)	FROM SR 2210 (CHASE HIGH ROAD) TO END OF MAINTENANCE	2	2	2WU	0.38	18	0.01	0.39	12	0.76	98		250		301				20	11							
2025CPT.13.10.20811	Rutherford	39	SR 2293 (STONEYBROOK DRIVE)	FROM SR 2159 (PINEY RIDGE ROAD) TO END OF MAINTENANCE	1	2	2WU	0.34	20	0.01	0.35	4	0.68	88		250		306				20	11							
2025CPT.13.10.20811	Rutherford	40	SR 2179 (OAK STREET)	FROM YOUNG STREET (TOWN ROAD) TO US 221 (SOUTH BROADWAY)	3	2	MD	0.44	26	2.8	3.24				3,175	325				797		47								
2025CPT.13.10.20811	Rutherford	41	SR 2179 (OAK STREET)	FROM SR 2179 (BUTLER ROAD) TO INTERSECTION WITH SR 2179 (OAK STREET)	3	2	MD	0.15	25	1.99	2.14				915	1,065				281		17								
TOTAL FOR PROJ NO.								**31.97**				**1,215**	**51.71**	**6,506**	**19,097**	**21,868**		**12,228**	**122**	**22,378**	**165**	**2,197**	**1,348**			**10**	**25**	**2**	**4,068**	**1,100**
51576	Rutherford	42	SR 2129 (OLD HENRIETTA ROAD)	FROM SR 2125 (HARRIS HENRIETTA ROAD) TO SR 2210 (CHASE HIGH ROAD)	5	2	2WD	3.2	20	0.01	3.21	500	6.40	832			1,364		649			104		33,792	16,896						
TOTAL FOR PROJ NO. 51576								**3.2**				**500**	**6.40**	**832**			**1,364**		**649**			**104**		**33,792**	**16,896**					
GRAND TOTAL								**35.17**				**1,715**	**58.11**	**7,338**	**19,097**	**21,868**	**1,364**	**12,228**	**771**	**22,378**	**165**	**2,301**	**1,348**	**33,792**	**16,896**	**10**	**25**	**2**	**4,068**	**1,100**

PROJECT NO.	SHEET NO.	TOTAL NO.
025CPT.13.10.20811, 5157	21	

THERMOPLASTIC AND PAINT QUANTITIES

														4413000000-E	4457000000-N	4685000000-E	4688000000-E		4695000000-E	4709000000-E	4720000000-E		4725000000-E				4890000000-E		4895000000-N		5255000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	WORK ZONE ADVANCE /GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE STOP BAR	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) SCHOOL	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) ONLY	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) RT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR & RT ARROW	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 60 MILS)(WHITE)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 60 MILS)(YELLOW)	GENERIC PAVEMENT MARKING ITEM INLAID CRADLE MARKER (YELLOW / YELLOW)	GENERIC PAVEMENT MARKING ITEM INLAID CRADLE MARKER (CRYSTAL / RED)	PORTABLE LIGHTING
								MI	FT			SF	LS	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	LS
2025CPT.13.10.20811	Rutherford	1	SR 1101 (COUNTY LINE ROAD)	FROM SR 1102 (LAMBS GRILL ROAD) TO POLK COUNTY LINE	1	2	2WU	2.13	20	0.01	2.14	238		300				18							22,592	22,592			
2025CPT.13.10.20811	Rutherford	2	SR 1104 (TED SMITH ROAD)	FROM SR 1102 (LAMBS GRILL ROAD) TO SR 1112 (WV THOMPSON ROAD)	1	2	2WU	1.99	19	0.01	2	222													21,120	21,120			
2025CPT.13.10.20811	Rutherford	3	SR 1118 (HOPPER ROAD)	FROM SR 1106 (BIG ISLAND ROAD) TO END OF MAINTENANCE	1	2	2WU	2.42	19	0.01	2.43	271						80	12						25,561	25,561			
2025CPT.13.10.20811	Rutherford	4	SR-1119 (HARRIS HOLLY SPRINGS ROAD)	FROM SR 1111 (JACK MKINNEY ROAD) TO SR 1122 (DUNCAN ROAD)	2	2	2WU	1.79	19	0.01	1.8	200													19,008	19,008			
2025CPT.13.10.20811	Rutherford	5	SR 1122 (HARRIS HOLLY SPRINGS/ DILLS ROAD)	FROM SR 1122 (DUNCAN ROAD) TO SR 1118 (HOPPER ROAD)	2	2	2WU	1.87	18	2.48	4.35	210													19,747	19,747			
2025CPT.13.10.20811	Rutherford	6	SR 1126 (STACEY ROAD)	FROM POLK COUNTY LINE TO END OF MAINTENANCE	2	2	2WU	1.2	18	0	1.2	135													12,672	12,672			
2025CPT.13.10.20811	Rutherford	7	SR 1130 (HOWARD COLE ROAD)	FROM SR 1132 (DEWITT OWENS ROAD) TO END OF MAINTENANCE	2	2	2WU	0.7	18	0	0.7	78																	
2025CPT.13.10.20811	Rutherford	8	SR 1131 (HOOPER ROAD)	FROM SR 1133 (DEWITT OWENS ROAD) TO END OF MAINTENANCE	2	2	2WU	0.33	20	0	0.33	37																	
2025CPT.13.10.20811	Rutherford	9	SR 1132 (DEWITT OWENS ROAD)	FROM SR 1106 (BIG ISLAND ROAD) TO SR 1133 (HUNTLEY CUTTHRU ROAD)	2	2	2WU	0.53	20	0.01	0.54	60																	
2025CPT.13.10.20811	Rutherford	10	SR 1133 (DEWITT OWENS/HUNTLEY CUTTHRU ROAD)	FROM END OF MAINTENANCE/TURN AROUND TO SR 1106 (BIG ISLAND ROAD)	2	2	2WU	0.6	20	0	0.6	68																	
2025CPT.13.10.20811	Rutherford	11	SR 1134 (HOLLY SPRINGS CHURCH ROAD)	FROM SR 1221 (HARRIS HOLLY SPRINGS ROAD) TO END OF PAVEMENT	2	2	2WU	0.19	18	0.01	0.2	22																	
2025CPT.13.10.20811	Rutherford	12	SR 1142 (EPLEY ROAD)	FROM SR 1148 (CLEGHORN MILL ROAD) TO END OF MAINTENANCE	2	2	2WU	0.37	18	0.01	0.38	42																	
2025CPT.13.10.20811	Rutherford	13	SR 1151 (BOB HARDIN ROAD)	FROM SR 1153 (EDWARDS STREET EXTENSION) TO SR 1005 (COXE ROAD)	1	2	2WU	0.79	20	0	0.79	89						104	12		2	2			8,448	8,448			
2025CPT.13.10.20811	Rutherford	14	SR 1153 (EDWARDS STREET/EDWARDS STREET EXT)	FROM NC 108 TO SR 1151 (BOB HARDIN ROAD)	1&3	2	2WU	1.83	20	0.01	1.84	205													17,658	19,008			
2025CPT.13.10.20811	Rutherford	15	SR 1201 (JONAS SIMS R0AD)	FROM SR 1153 (EDWARDS STREET EXT) TO END OF MAINTENANCE	2	2		0.42	18	0.01	0.43	47																	
2025CPT.13.10.20811	Rutherford	16	SR 1208 (SUNSET DRIVE)	FROM END OF MAINTENANCE TO SR 1004 (POORS FORD ROAD)	2	2	2WU	0.23	20	0	0.23	26																	
2025CPT.13.10.20811	Rutherford	17	SR 1208 (ALLEN LOOP ROAD)	FROM SR 1004 (POORS FORD ROAD) TO SR 1209 (ALLEN LOOP ROAD)	2	2	2WU	0.18	18	0.25	0.43	20																	
2025CPT.13.10.20811	Rutherford	18	SR 1209 (ALLEN LOOP ROAD)	FROM SR 1150 (LONG BRANCH ROAD) TO SR 1208 (ALLEN LOOP ROAD)	2	2	2WU	0.07	18	0.01	0.08	8																	
2025CPT.13.10.20811	Rutherford	19	SR 1216 (BUTCHER HOLLAR)	FROM SR 1004 (POORS FORD ROAD) TO END OF MAINTENANCE	2	2	2WU	0.1	20	0.01	0.11	11																	
2025CPT.13.10.20811	Rutherford	20	SR 1221 (HARRIS HOLLY SPRINGS ROAD)	FROM SR 1122 (DILLS ROAD) TO SR 1106 (BIG ISLAND ROAD)	2	2	2WU	0.87	19	0	0.87	98	*													9,399	9,399			

PROJECT NO.	SHEET NO.	TOTAL NO.
025CPT.13.10.20811, 5157	22	

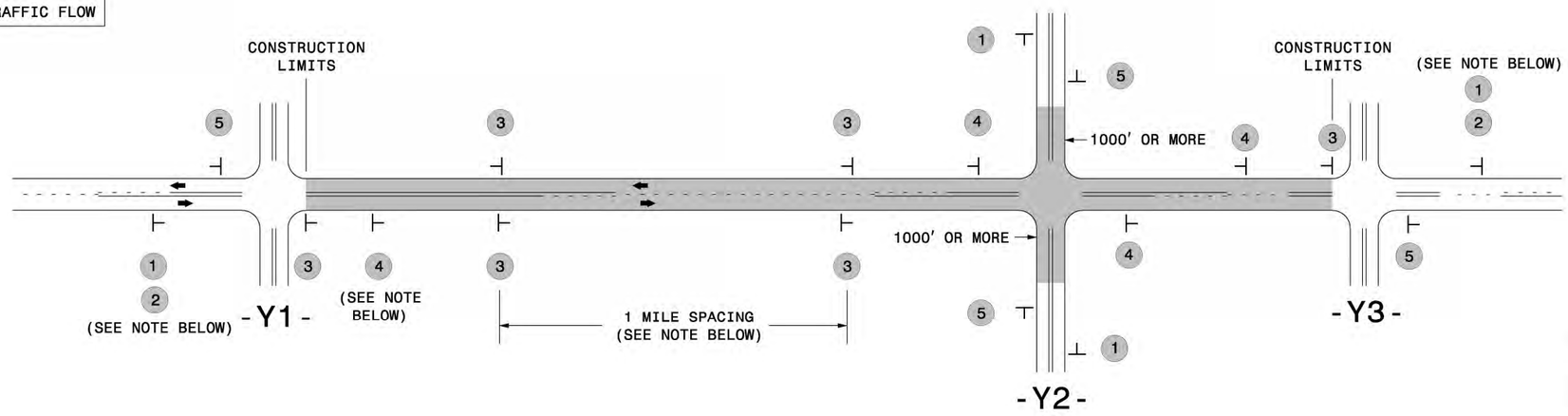
THERMOPLASTIC AND PAINT QUANTITIES

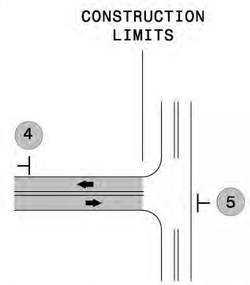
															4413000000-E	4457000000-N	4685000000-E	4688000000-E		4695000000-E	4709000000-E	4720000000-E		4725000000-E				4890000000-E		4895000000-N		5255000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	WORK ZONE ADVANCE /GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE STOP BAR	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) SCHOOL	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) ONLY	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) RT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR & RT ARROW	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 60 MILS)(WHITE)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 60 MILS)(YELLOW)	GENERIC PAVEMENT MARKING ITEM INLAID CRADLE MARKER (YELLOW / YELLOW)	GENERIC PAVEMENT MARKING ITEM INLAID CRADLE MARKER (CRYSTAL / RED)	PORTABLE LIGHTING
								MI	FT			SF	LS	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	LS
2025CPT.13.10.20811	Rutherford	21	SR 1223 (SOUTH RIVER ROAD)	FROM END OF MAINTENANCE TO US 221	2	2	2WU	0.27	18	0	0.27	30										2			2,746	2,746	7		
2025CPT.13.10.20811	Rutherford	22	SR 1356 (ROY HUSKEY ROAD)	FROM SR 1355 (MOUNTAIN CREEK ROAD) TO END OF MAINTENANCE	2	2	2WU	0.71	18	0.01	0.72	80																	
2025CPT.13.10.20811	Rutherford	23	SR 2129 (OLD HENRIETTA ROAD)	FROM SR 2125 (HARRIS HENRIETTA ROAD) TO SR 2210 (CHASE HIGH ROAD)	4	2	2WU	3.2	20	0.01	3.21	358																	
2025CPT.13.10.20811	Rutherford	24	SR 2155 (PHILLIPS DRIVE)	FROM US 221 ALTERNATE TO END OF MAINTENANCE	2	2	2WU	0.26	14	0.01	0.27	30																	
2025CPT.13.10.20811	Rutherford	25	SR 2166 (BOSTIC ROAD)	FROM SR 2164 (TANNERS GROVE ROAD) TO SR 2152 (MORNINGSTAR LAKE ROAD)	2	2	2WU	0.71	19	0.01	0.72	80															7,709	7,709			
2025CPT.13.10.20811	Rutherford	26	SR 2172 (GRAYSON BOSTIC ROAD)	FROM END OF PAVEMENT TO SR 2213 (BETHANY CHURCH ROAD)	2	2	2WU	0.23	20	0	0.23	26																	
2025CPT.13.10.20811	Rutherford	27	SR 2179 (SUNSET MEMORIAL ROAD)	FROM SR 2198 (GRIFFIN ROAD) TO SR 2169 (OAKLAND ROAD)	2	2	2WU	0.82	19	2.42	3.24	92															8,894	8,894			
2025CPT.13.10.20811	Rutherford	28	SR 2179 (OAK STREET)	FROM US 221 TO SR 2179 (BUTLER ROAD)	3	2	MU	1.25	49	0.02	1.27	140					2,538	498			39	4	21	10	3,995	7,895	138	220	*
2025CPT.13.10.20811	Rutherford	29	SR 2196 (DUNCARD CHURCH ROAD)	FROM US 221 TO SR 2190 (CROWE DAIRY ROAD)	2	2	2WU	0.78	18	0.02	0.8	88													8,448	8,448			
2025CPT.13.10.20811	Rutherford	30	SR 2201 (THUNDER ROAD)	FROM US 221 TO US 74 ALTERNATE	1	2	2WU	1.64	21	0.01	1.65	184						78			1				19,318	15,632	143	6	
2025CPT.13.10.20811	Rutherford	31	SR 2201 (OAK STREET/THUNDER ROAD)	FROM US 74 ALTERNATE TO US 74 BUSINESS	3	2	MU	0.69	44	1.69	2.38	77					48	67			4				1,800	7,180			
2025CPT.13.10.20811	Rutherford	32	SR 2230 (NEW JERUSALEM CHURCH ROAD)	FROM US 221 TO PAVEMENT JOINT	1	2	2WU	0.05	18	0.02	0.07	6										2			550	550	4		
2025CPT.13.10.20811	Rutherford	33	SR 2241 (OAK STREET)	FROM 74 ALTERNATE TO (SR 2179 (BUTLER ROAD	3	2	MU	0.44	50	0.68	1.12	49								4	22	3	3	1	1,545	5,160	104	84	*
2025CPT.13.10.20811	Rutherford	34	SR 2265 (KAY STREET)	FROM SR 2153 (MCSWAIN ROAD) TO END OF MAINTENANCE	2	2	2WU	0.11	18	0.01	0.12	12																	
2025CPT.13.10.20811	Rutherford	35	SR 2267 (MICHAEL DRIVE)	FROM SR 2159 (DOGGETT DRIVE) TO CUL DE SAC	2	2	2WU	0.34	20	0.01	0.35	38																	
2025CPT.13.10.20811	Rutherford	36	SR 2272 (WATTS ROAD)	FROM SR 2188 (CALLAHAN KOON ROAD) TO SR 2169 (OAKLAND ROAD)	1	2	2WU	0.41	24	0.01	0.42	46																	
2025CPT.13.10.20811	Rutherford	37	SR 2275 (AMOS ROAD)	FROM SR 2171 (BURCH HUTCHINS ROAD) TO END OF MAINTENANCE	2	2	2WU	0.14	16.5	0.01	0.15	16																	
2025CPT.13.10.20811	Rutherford	38	SR 2285 (FLAT ROCK ROAD)	FROM SR 2210 (CHASE HIGH ROAD) TO END OF MAINTENANCE	2	2	2WU	0.38	18	0.01	0.39																		
2025CPT.13.10.20811	Rutherford	39	SR 2293 (STONEYBROOK DRIVE)	FROM SR 2159 (PINEY RIDGE ROAD) TO END OF MAINTENANCE	1	2	2WU	0.34	20	0.01	0.35	38																	
2025CPT.13.10.20811	Rutherford	40	SR 2179 (OAK STREET)	FROM YOUNG STREET (TOWN ROAD) TO US 221 (SOUTH BROADWAY)	3	2	MD	0.44	26	2.8	3.24	50					1,188	58			4	5	4		1,119	1,148		64	*
2025CPT.13.10.20811	Rutherford	41	SR 2179 (OAK STREET)	FROM SR 2179 (BUTLER ROAD) TO INTERSECTION WITH SR 2179 (OAK STREET)	3	2	MD	0.15	25	1.99	2.14	18					140	27			2		1	1	383	25		22	*
TOTAL FOR PROJ NO.								**31.97**				**3,545**	**1.000**	**300**			**3,914**	**930**	**24**	**4**	**74**	**18**	**29**	**12**	**212,712**	**222,942**	**396**	**396**	**1**
																			28		**133**				**435,654**				
51576	Rutherford	42	SR 2129 (OLD HENRIETTA ROAD)	FROM SR 2125 (HARRIS HENRIETTA ROAD) TO SR 2210 (CHASE HIGH ROAD)	5	2	2WD	3.2	20	0.01	3.21				33,792	33,792													
TOTAL FOR PROJ NO. 51576								**3.2**							**33,792**	**33,792**													
															67,584												**396**	**396**	
GRAND TOTAL								**35.17**				**3,545**	**1.000**	**300**	**33,792**	**33,792**	**3,914**	**930**	**24**	**4**	**74**	**18**	**29**	**12**	**212,712**	**222,942**	**396**	**396**	**1**
															67,584				**28**		**133**				**435,654**		**792**		

PROJECT NO.	SHEET NO.
2025CPT.13.10.20811	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″	PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.
2	NEXT XX MILES W7-3aP 24″ X 18″	#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.

ROAD WORK AHEAD W20-1 48″ X 48″
PLACED 500′ IN ADVANCE OF FLAGGER.

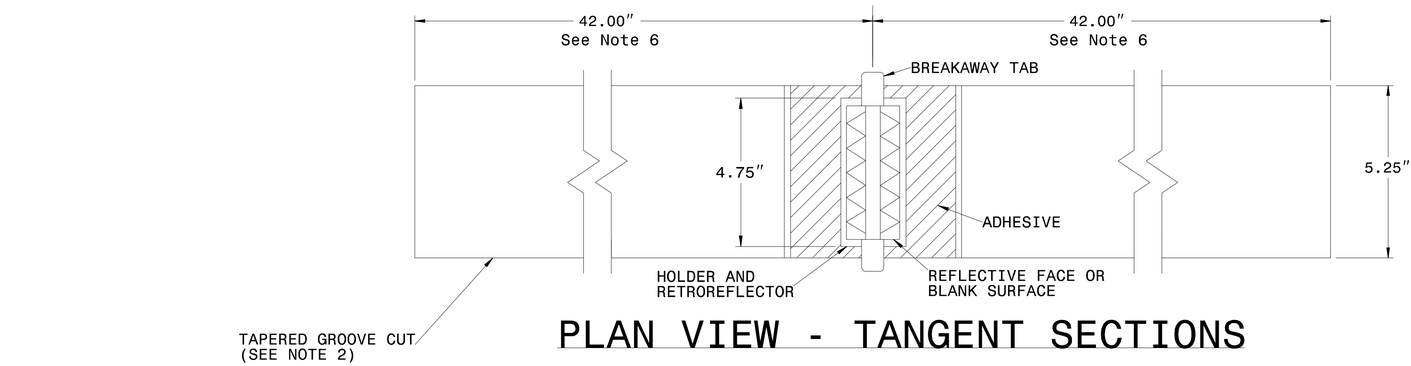
W20-7 A 48″ X 48″
PLACED 250′ IN ADVANCE OF FLAGGER.

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

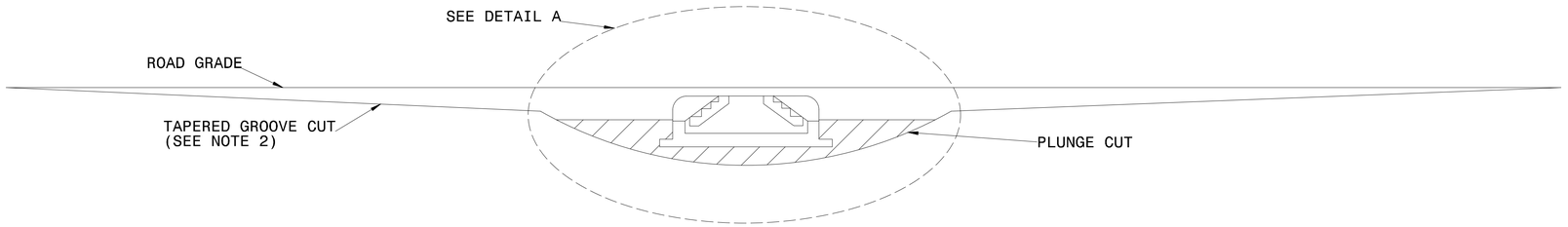
ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

5/15/2017
SA:\MU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kaddis

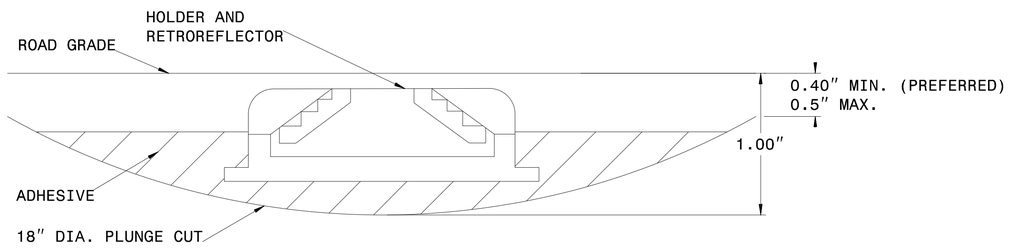
PROJECT NO.	SHEET NO.
2025CPT.13.10.20811	TMP-2



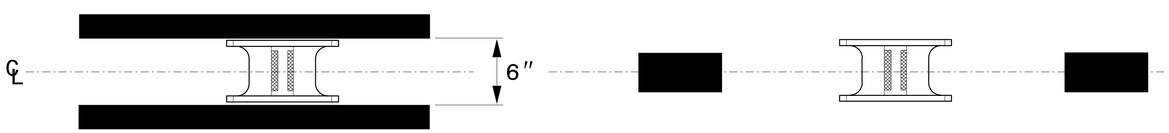
PLAN VIEW - TANGENT SECTIONS



PROFILE VIEW



DETAIL A



MARKER SPACING

NOTES:

1. ALL GROOVE EDGES SHALL BE AT LEAST 2 INCHES FROM ANY SEAM OR PAVEMENT JOINT
2. GROOVE CUTS MAY BE TAPERED OR BEVELED. TAPERED CUTS SHALL START AT ROAD LEVEL ON EACH END AND TAPER AT A FIXED RATE AS SHOWN ON THE PROFILE VIEW. BEVELED GROOVE CUTS SHALL BE 0.5″ MAXIMUM DEPTH (0.4″ PREFERRED), AND SHALL BE 0.4″ MINIMUM DEPTH AT BOTH ENDS OF THE PLUNGE CUT.
3. GROOVE AND PLUNGE CUT SHALL BE CLEAN AND DRY PRIOR TO PLACEMENT OF ADHESIVE.
4. THE EPOXY ADHESIVE SHALL BE THOROUGHLY MIXED UNTIL IT IS UNIFORM IN COLOR, AND APPLIED IN COLOR, AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. MARKER SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE BREAKWAY TABS RESTING ON THE PAVEMENT SURFACE. THE EPOXY SHALL BE FILLED TO THE LEVEL OF THE TOP OF THE MARKER HOLDER. EPOXY SHALL NOT TOUCH THE RETROREFELCTOR.
6. TOTAL GROOVE LENGTH MAY BE SHORTENED TO 54″ ON SHARP CURVES IF APPROVED BY THE ENGINEER. GROOVES SHALL NOT OVERLAP WITH LOOP DETECTOR WIRES.

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

DETAIL OF INLAID CRADLE MARKER

ORIGINAL BY: rgwatson DATE: 02-06-2024
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:

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

2-23

ENGLISH DETAIL DRAWING FOR

RUMBLE STRIPS / STRIPES

TRADITIONAL CENTERLINE RUMBLE STRIP WITH SNOWPLOWABLE MARKERS

PROJECT NO.	SHEET NO.
2025CPT.13.10.20811	TMP-3

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

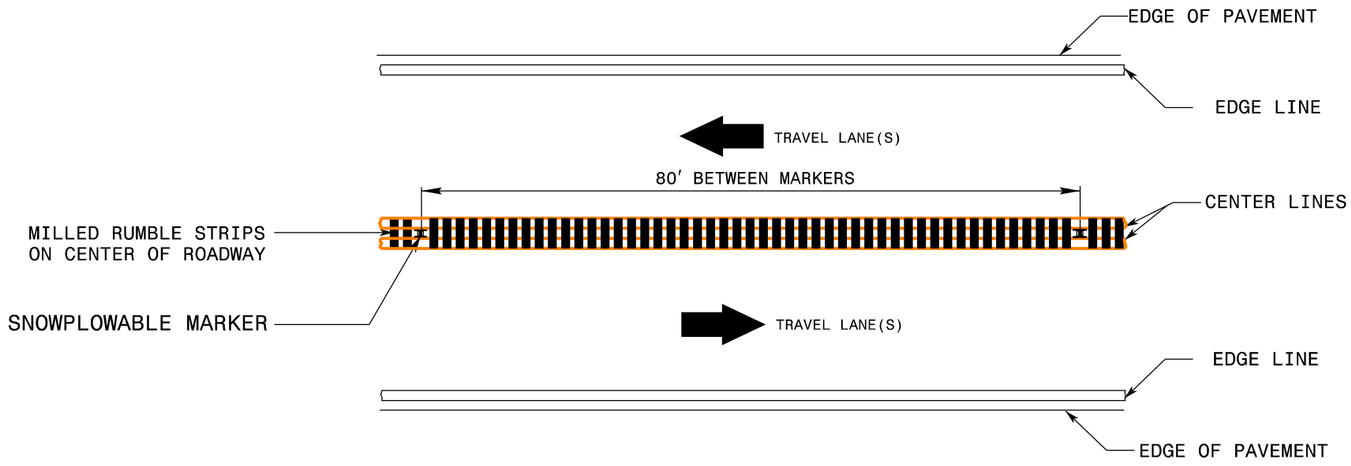
2-23

ENGLISH DETAIL DRAWING FOR

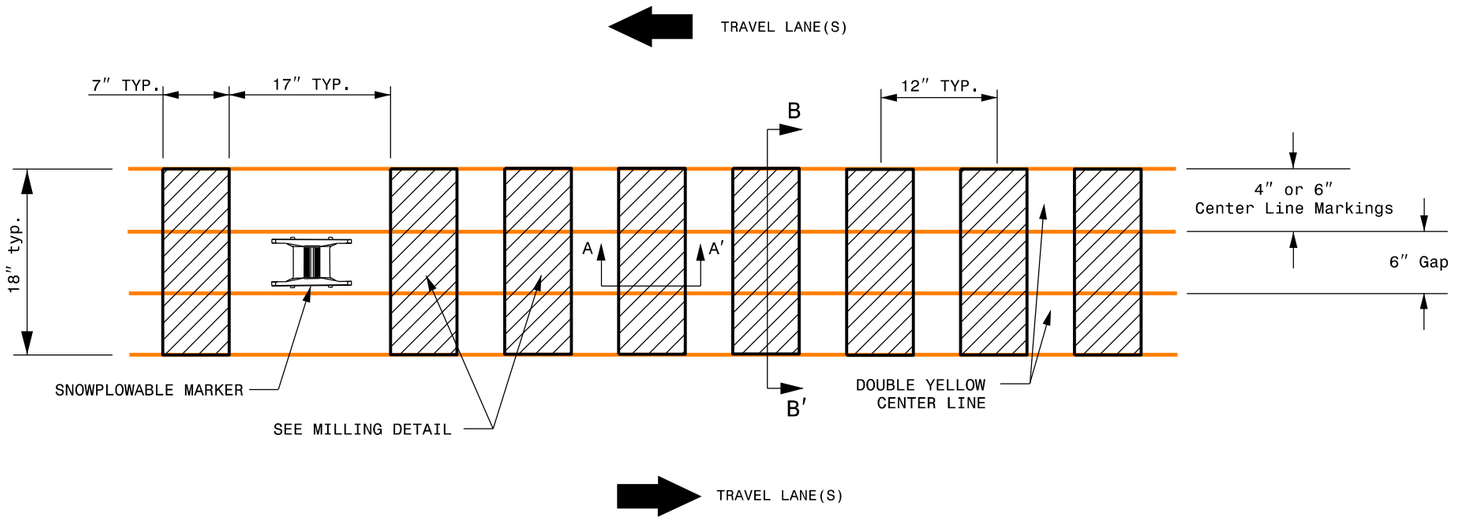
RUMBLE STRIPS / STRIPES

TRADITIONAL CENTERLINE RUMBLE STRIP WITH SNOWPLOWABLE MARKERS

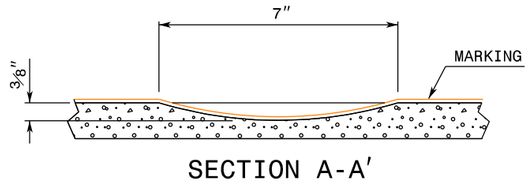
LANE TREATMENT

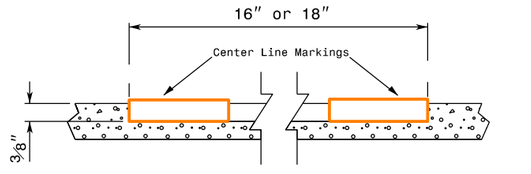


CENTER LINE



MILLING DETAIL



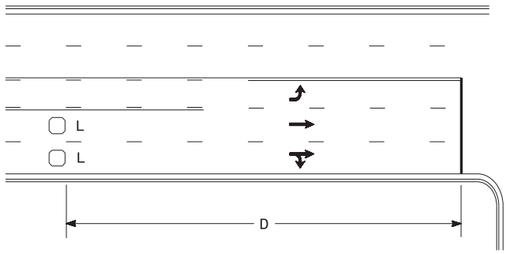


NOTES:

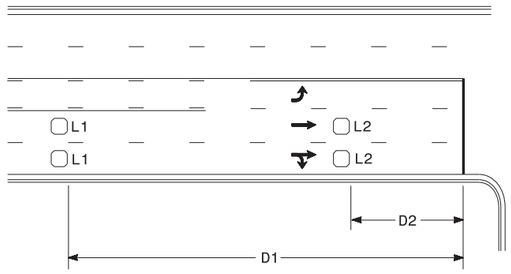
1) REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
3) INSTALL SNOWPLOWABLE MARKERS AT APPROXIMATELY 80′ INCREMENTS. DO NOT MILL RUMBLE STRIPS IN SECTION WHERE SNOWPLOWABLE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

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.13.10.20811 ETC.	SIG-1

High Speed Detection
(≥40 mph)



OR



Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

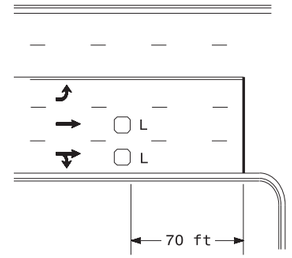
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

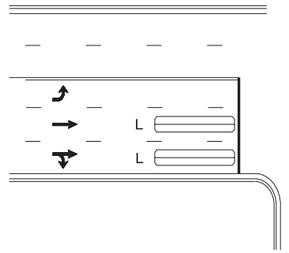
L2 = 6ft X 6ft
Wired in series

"Stretch" Operation

Low Speed Detection
(≤35 mph)



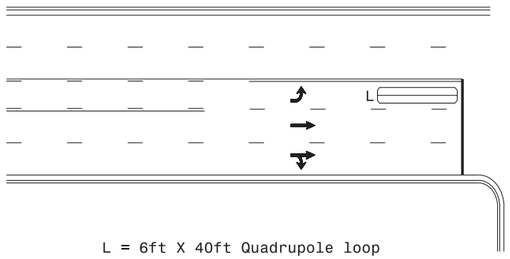
OR



L = 6ft X 6ft
Wired in series

L = 6ft X 40ft
Quadrupole loop, wired separately

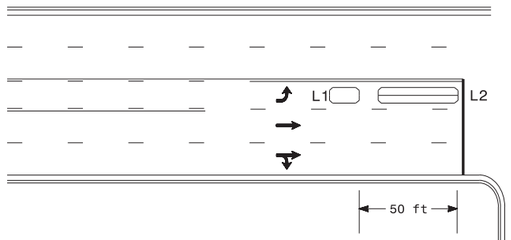
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

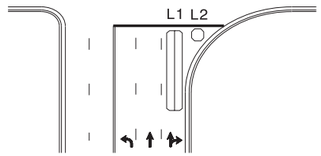
OR



L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

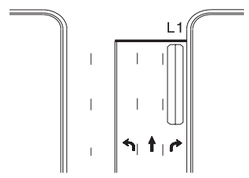
Queue Loop Detection

Right Turn Lane Detection

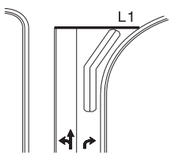


Shared Lane/
Wide Radius Turn

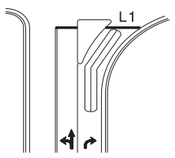
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

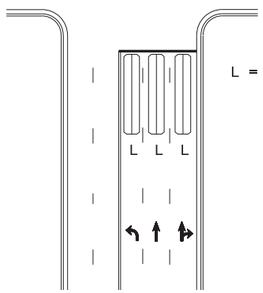


Wide Radius Turn



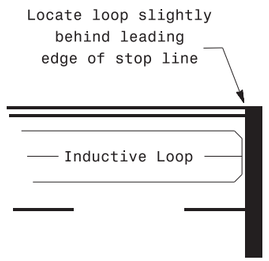
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Note:
Loop may be located in advance of stop line under any of the following conditions:
1) stop line is greater than 15′ from edge of intersecting roadway
2) loop detects a permissive or protected/permissive left turn
3) for an exclusive right turn lane

Recommended Number of Turns

Single 6′ X 6′ loop
(when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6′ X 15′ Loops:
Lead-in < 150′, use 2 turns
Lead-in > 150′, use 3 turns

Prepared In the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N.Greenfield Pkwy.,Garner,NC 27529

Typical Signal Loop Locations

PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE
N/A

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029904 ENGINEER JASON P. GALLOWAY

9/8/2020
DATE

SIG. INVENTORY NO.

08-SEP-2020 11:54
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jgalloway