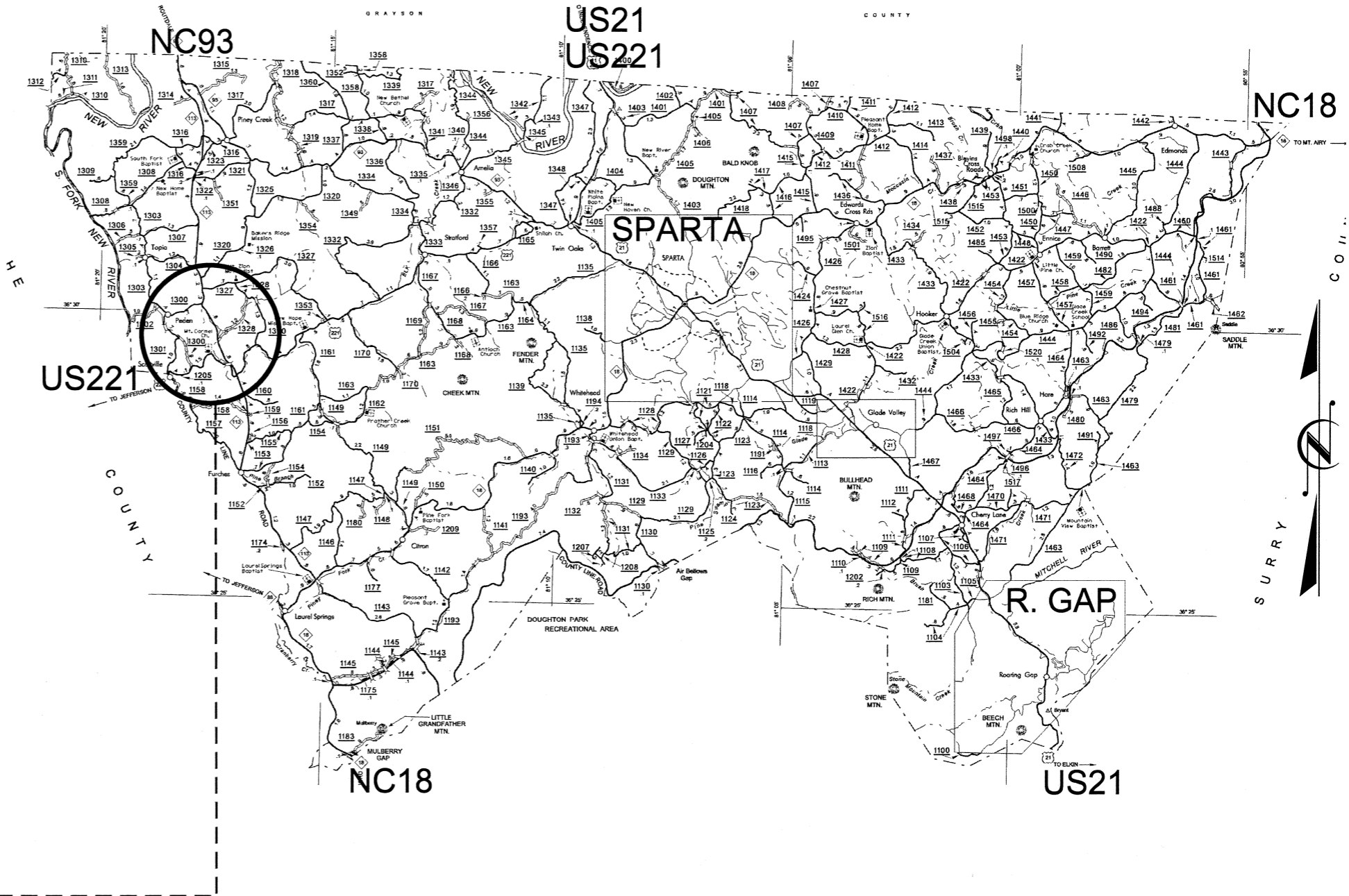
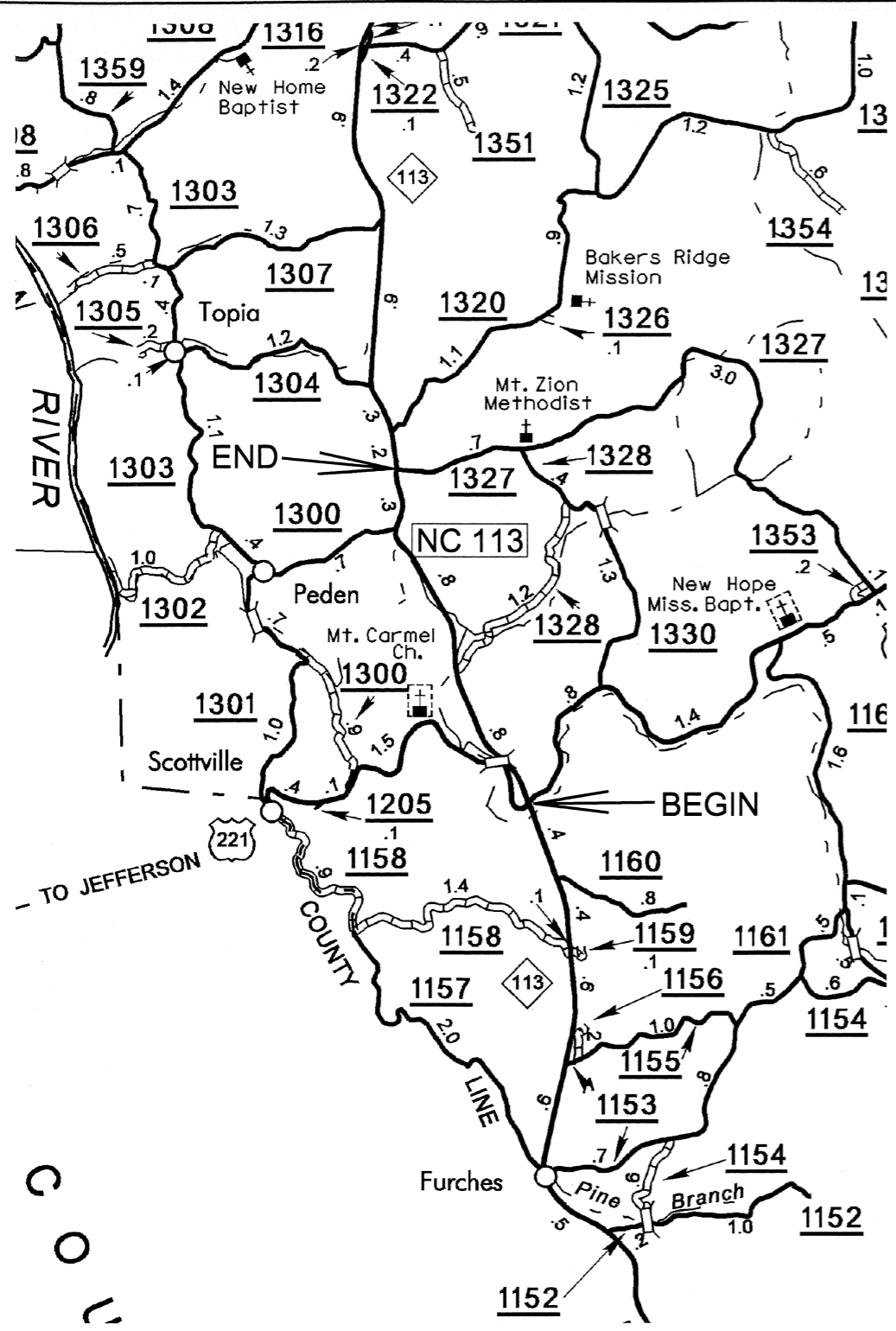


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ALLEGHANY COUNTY

2014

PRIMARY ASPHALT RESURFACING



MAP #1

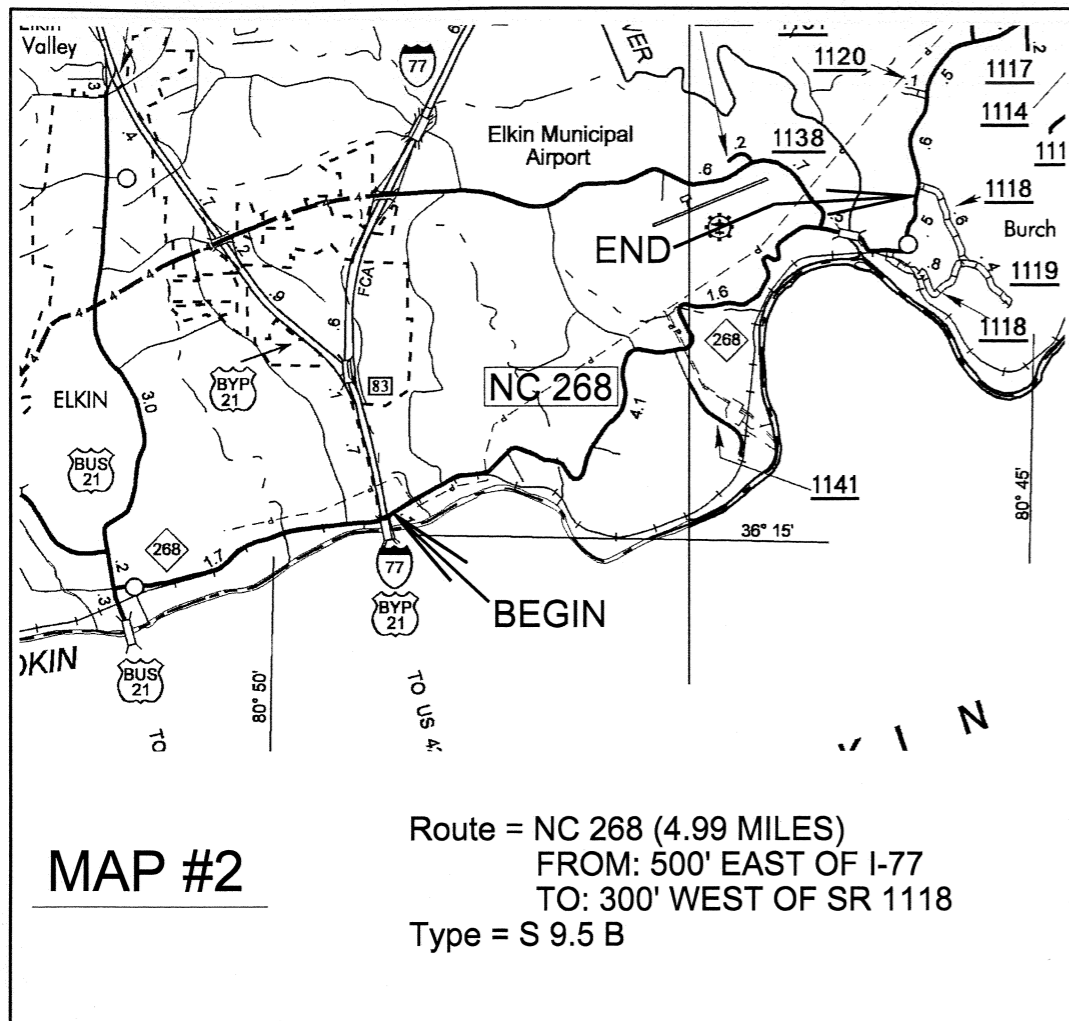
Route = NC 113 (2.0 MILES)
FROM: US 221
TO: SR 1327
Type = SF9.5A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

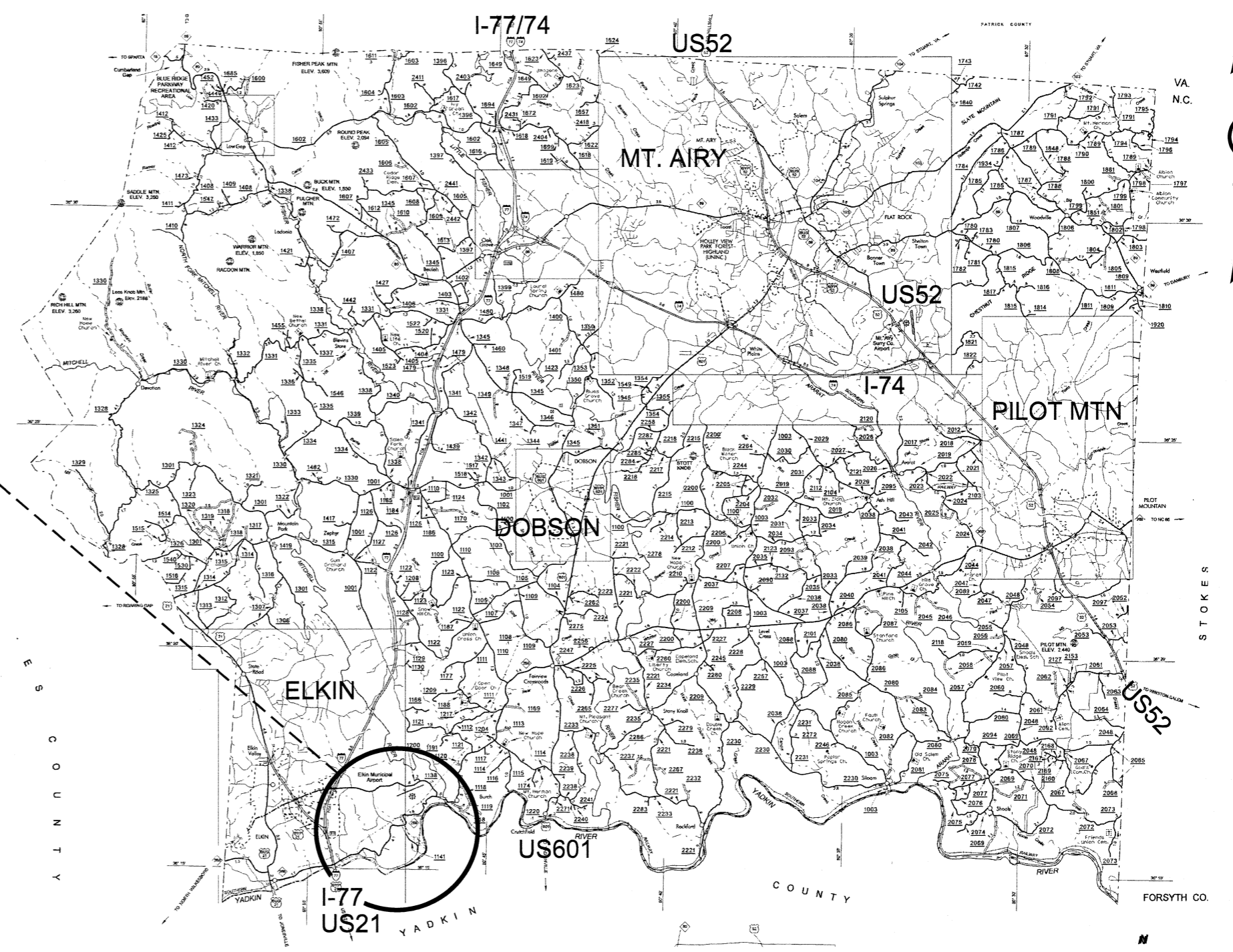
SURRY COUNTY

2014

PRIMARY ASPHALT RESURFACING



MAP #2

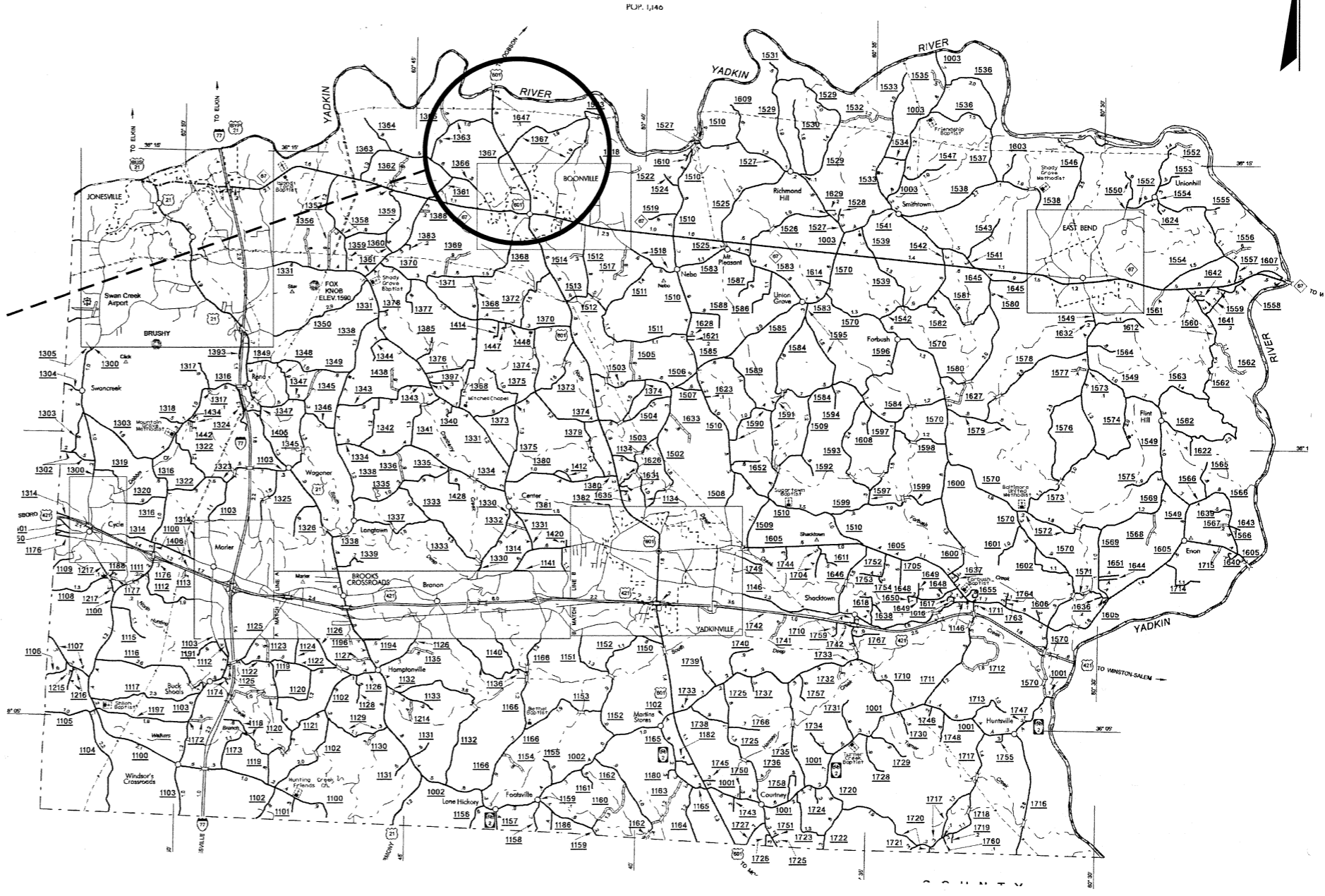
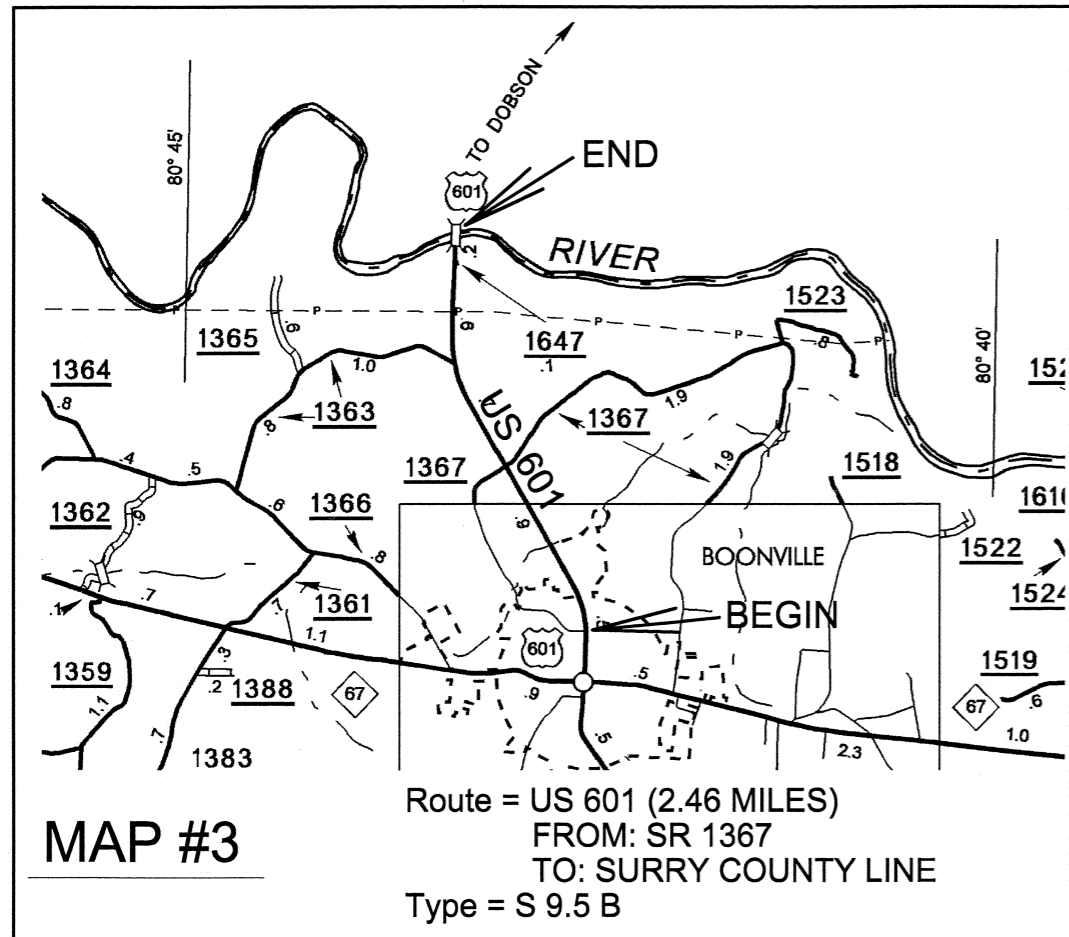


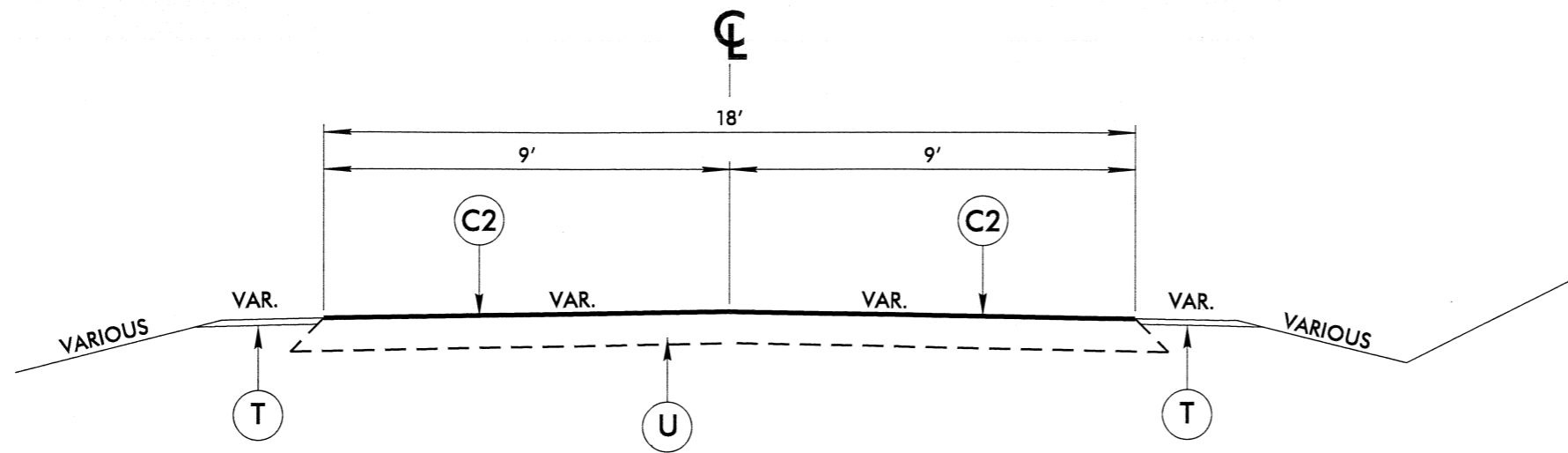
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

2014

YADKIN COUNTY

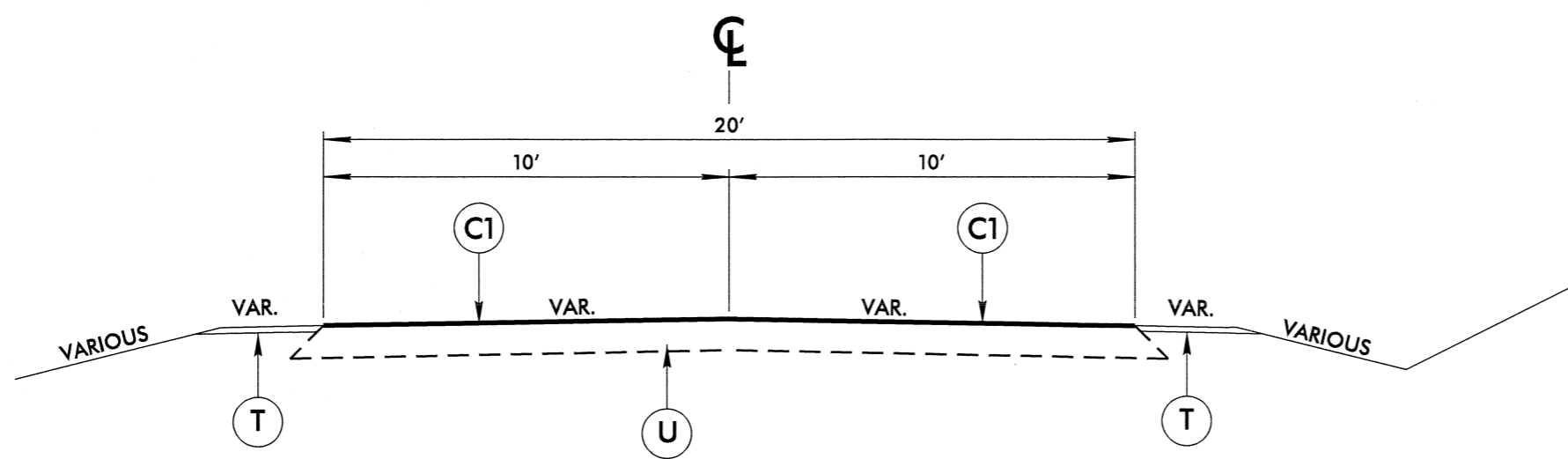
PRIMARY ASPHALT RESURFACING





TYPICAL SECTION NO. 1

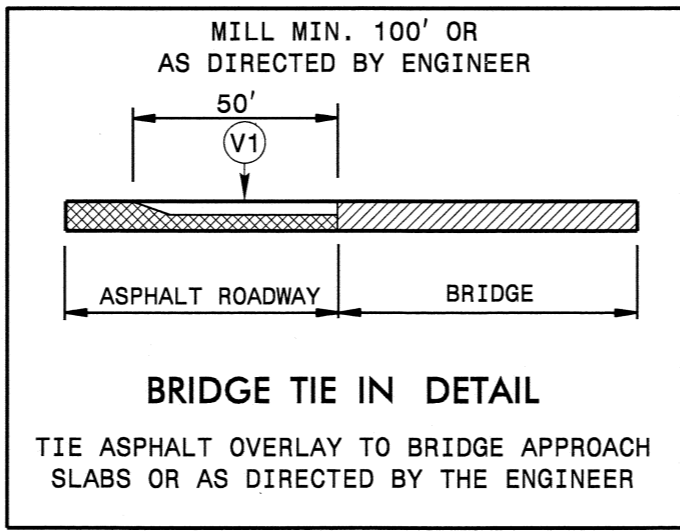
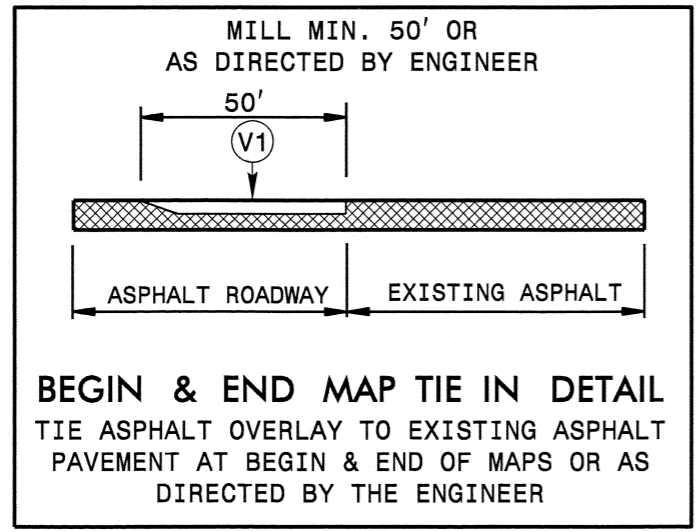
MAP 1 - NC 113 FROM US 221 TO SR 1327



TYPICAL SECTION NO. 2

MAP 2 - NC 268 FROM 500' EAST OF I-77 TO 300' WEST OF SR 1118
 MAP 3 - US 601 FROM SR 1367 TO SURRY COUNTY LINE

| PAVEMENT SCHEDULE | |
|-------------------|--|
| C1 | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| C2 | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. |
| T | SHOULDER RECONSTRUCTION |
| U | EXISTING PAVEMENT |
| V1 | INCIDENTAL MILLING |



ALLEGHANY-SURRY-YADIN COUNTIES
PRIMARY RESURFACING

DIVISION II

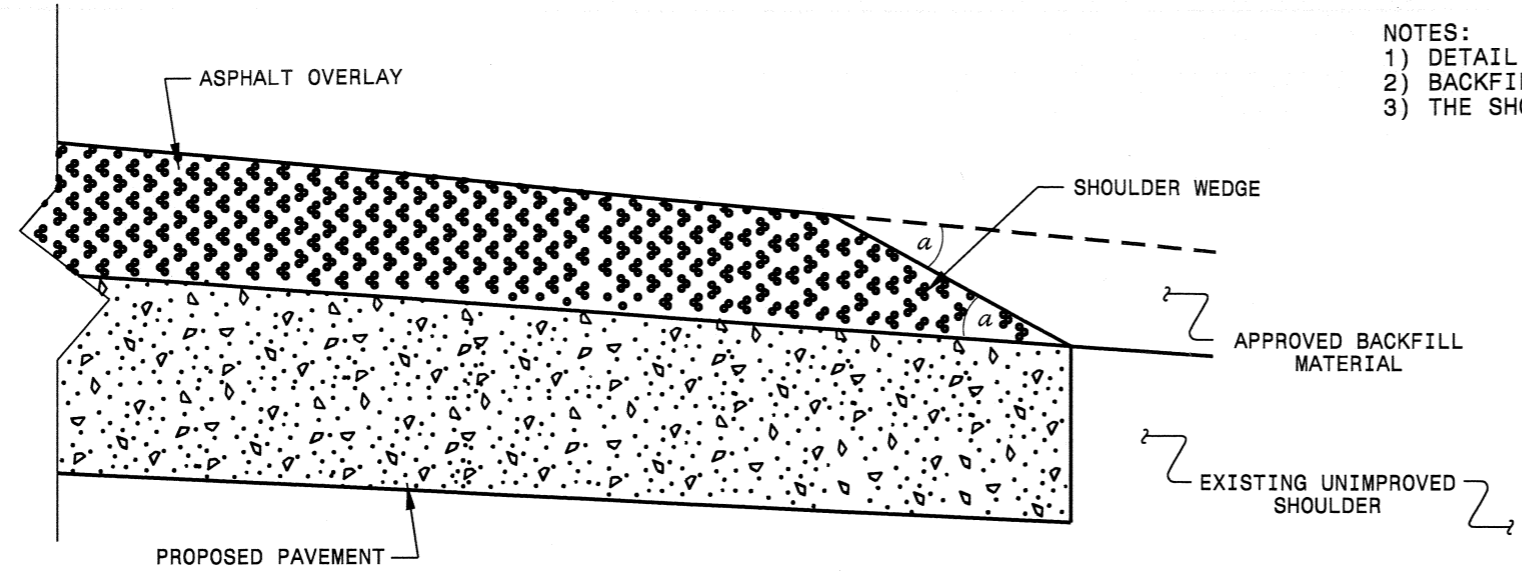
| REVISIONS | INIT. | DATE |
|-----------|-------|------|
| | | |
| | | |
| | | |

SCALE: N/A DATE: 01/2014

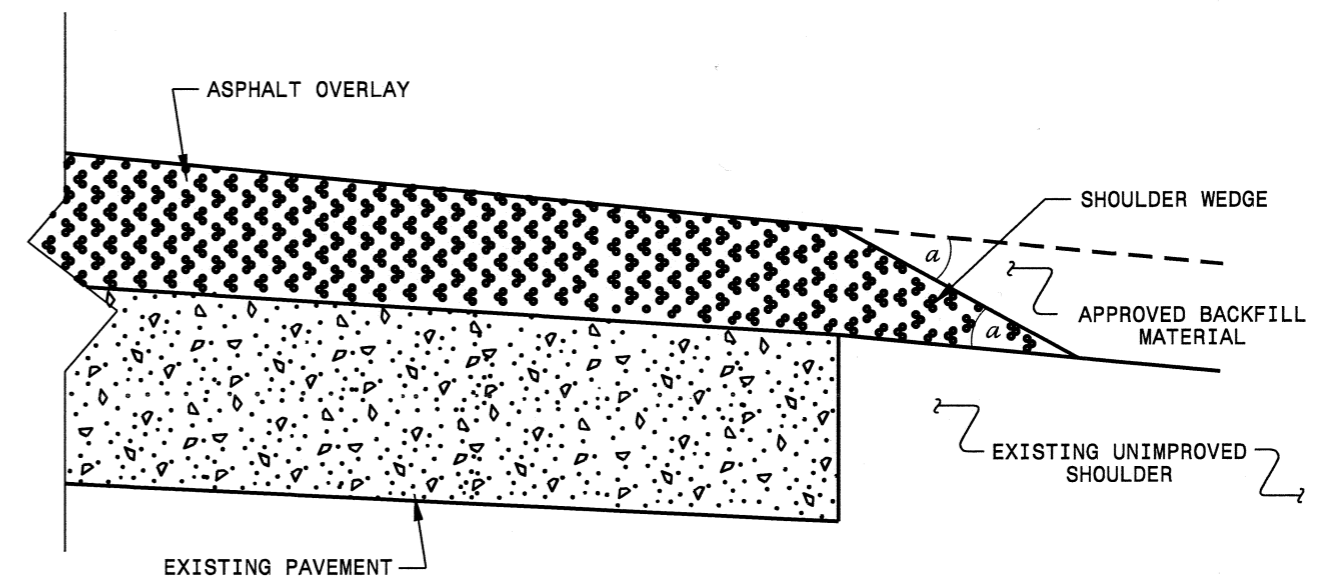
N.C. DEPARTMENT of TRANSPORTATION
 DIVISION of HIGHWAYS
 DIVISION ELEVEN

PREPARED BY: S.B. DARNELL
 REVIEWED BY: J.D. WOOD
 REVIEWED BY:

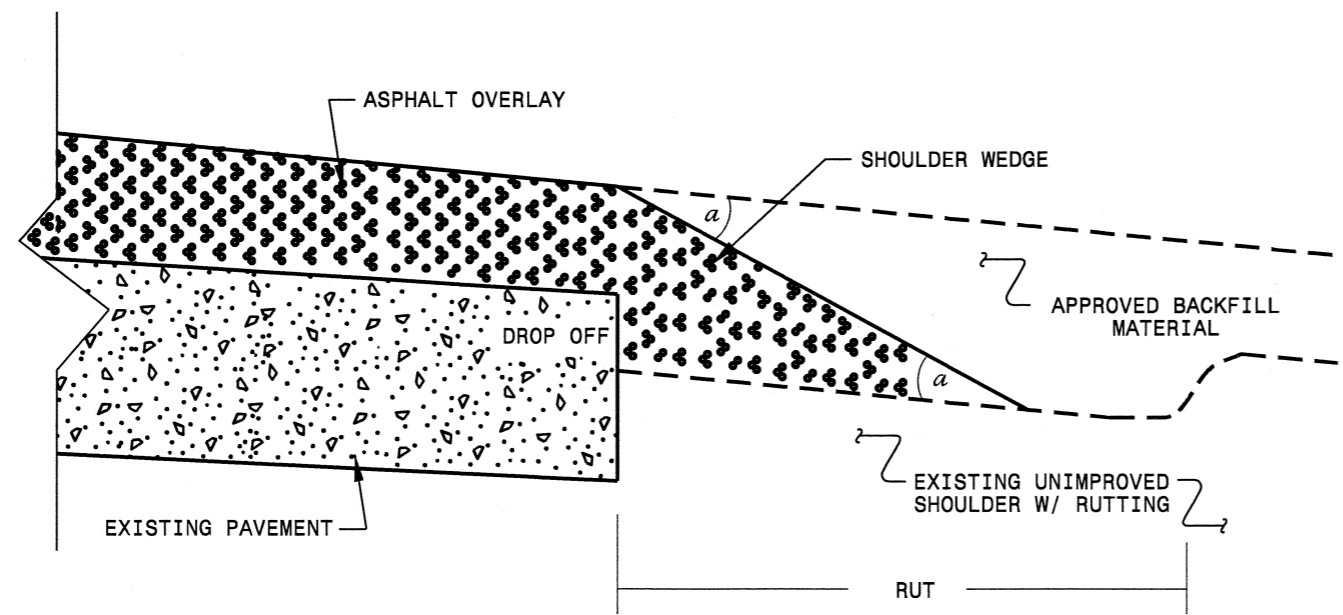
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

| | |
|---|----------------|
| CONTRACT STANDARDS AND DEVELOPMENT UNIT | |
| Office 919-707-6950 FAX 919-250-4119 | |
| SHOULDER WEDGE DETAILS | |
| ORIGINAL BY: T.SPELL | DATE: 7-19-11 |
| MODIFIED BY: | DATE: 10/18/12 |
| CHECKED BY: | DATE: |
| FILE SPEC.: s:\user\details\stand\shoulderwedgedetail.dgn | |

SYSTEMS CONSULTANTS
 CONSULTING ENGINEERS
 10000 WILSON BLVD
 SUITE 1000
 FARMERS BRANCH, NC 27834
 PHONE 919-707-6950
 FAX 919-250-4119
 WWW.SCSYSTEMS.COM

| PROJECT NO. | SHEET NO. | TOTAL NO. |
|------------------------------|-----------|-----------|
| 11CR.10031.21, 11CR.10861.21 | 6 | 7 |
| 11CR.10991.21 | | |

SUMMARY OF QUANTITIES

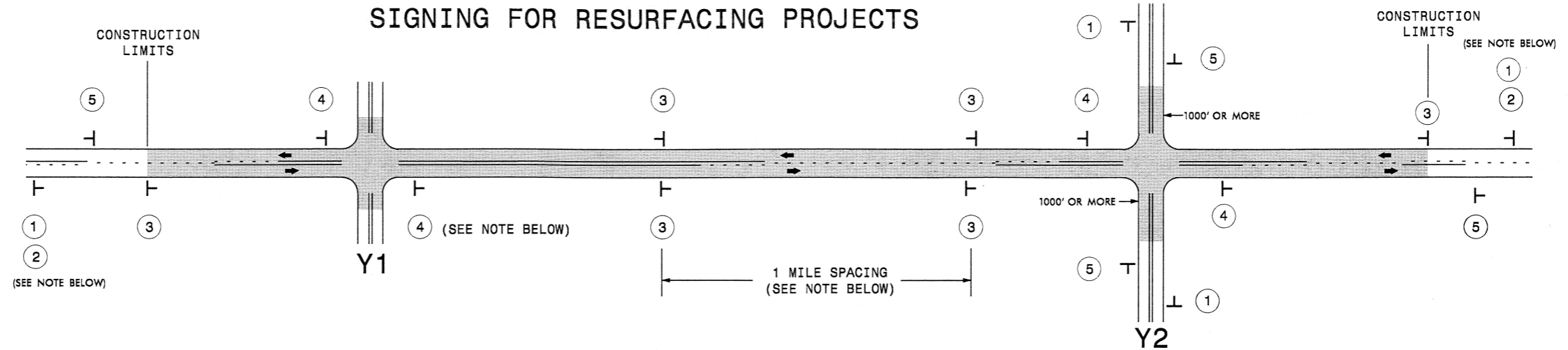
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP | LANES | LANE TYPE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH MI | WIDTH FT | BORROW EXCAVATION CY | INCIDENTAL STONE BASE TONS | SHOULDER RECONSTRUCTION SMI | INCIDENTAL MILLING SY | SURFACE COURSE, S9.5B TONS | SURFACE COURSE, SF9.5A TONS | ASPHALT BINDER FOR PLANT MIX TONS | SEED & MULCHING AC |
|---|-----------|--------|--------|--|-----|-------|-----------|--------------------------------|---------------------------|-------------|----------|----------------------|----------------------------|-----------------------------|-----------------------|----------------------------|-----------------------------|-----------------------------------|--------------------|
| 11CR.10031.21 | Alleghany | 1 | NC 113 | FROM US 221 TO SR 1327 | 1 | 2 | 2WU | NO | NO | 2 | 18 | 400 | 100 | 4.00 | 400 | | 1,855 | 124 | 1.45 |
| TOTAL FOR PROJ NO. 11CR.10031.21 | | | | | | | | | | 2 | | 400 | 100 | 4.00 | 400 | | 1,855 | 124 | 1.45 |
| 11CR.10861.21 | Surry | 2 | NC 268 | FROM 500' EAST OF I-77 TO 300' WEST OF SR 1118 | 2 | 2 | 2WU | NO | NO | 4.99 | 20 | 998 | 100 | 9.98 | 888 | 5,150 | | 309 | 3.60 |
| TOTAL FOR PROJ NO. 11CR.10861.21 | | | | | | | | | | 4.99 | | 998 | 100 | 9.98 | 888 | 5,150 | | 309 | 3.60 |
| 11CR.10991.21 | Yadkin | 3 | US 601 | FROM SR 1367 TO SURRY COUNTY LINE | 2 | 2 | 2WU | NO | NO | 2.46 | 20 | 492 | 100 | 4.92 | 444 | 2,540 | | 152 | 1.23 |
| TOTAL FOR PROJ NO. 11CR.10991.21 | | | | | | | | | | 2.46 | | 492 | 100 | 4.92 | 444 | 2,540 | | 152 | 1.23 |
| GRAND TOTAL | | | | | | | | | | 9.45 | | 1,890 | 300 | 18.90 | 1,732 | 7,690 | | 585 | 6.28 |

| PROJECT NO. | SHEET NO. | TOTAL NO. |
|---|-----------|-----------|
| 11CR.10031.21, 11CR.10861.21 11CR.10991.21 | 7 | 7 |

THERMOPLASTIC AND PAINT QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP | LANES | LANE TYPE | LENGTH | WIDTH | 4413000000-E | 4457000000-N | 4810000000-E | | 4905000000-N |
|---|-----------|--------|--------|--|-----|-------|-----------|-------------|-------|---|---------------------------------|----------------------|-----------------------|-----------------------------|
| | | | | | | | | | | WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF | TEMPORARY TRAFFIC CONTROL LS | 4" WHITE PAINT LF | 4" YELLOW PAINT LF | SNOW PLOWABLE MARKERS EA |
| 11CR.10031.21 | Alleghany | 1 | NC 113 | FROM US 221 TO SR 1327 | 1 | 2 | 2WU | 2 | 18 | 224.00 | 1.00 | 42,240 | 42,240 | 265 |
| TOTAL FOR PROJ NO. 11CR.10031.21 | | | | | | | | 2 | | 224 | | 42,240 | 42,240 | 265 |
| | | | | | | | | | | | | 84,480 | | |
| 11CR.10861.21 | Surry | 2 | NC 268 | FROM 500' EAST OF I-77 TO 300' WEST OF SR 1118 | 2 | 2 | 2WU | 4.99 | 20 | 560.00 | * | 105,389 | 105,389 | 660 |
| TOTAL FOR PROJ NO. 11CR.10861.21 | | | | | | | | 4.99 | | 560 | | 105,389 | 105,389 | 660 |
| | | | | | | | | | | | | 210,778 | | |
| 11CR.10991.21 | Yadkin | 3 | US 601 | FROM SR 1367 TO SURRY COUNTY LINE | 2 | 2 | 2WU | 2.46 | 20 | 280.00 | * | 51,955 | 51,955 | 164 |
| TOTAL FOR PROJ NO. 11CR.10991.21 | | | | | | | | 2.46 | | 280 | | 51,955 | 51,955 | 164 |
| | | | | | | | | | | | | 103,910 | | |
| GRANDTOTAL | | | | | | | | 9.45 | | 1,064 | 1 | 199,584 | 199,584 | 1,089 |
| | | | | | | | | | | | | 399,168 | | |

SIGNING FOR RESURFACING PROJECTS



| LEGEND | |
|--------|---------------------------|
| ⊥ | STATIONARY SIGN |
| ← | DIRECTION OF TRAFFIC FLOW |

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

| SIGNING NOTES AND PLACEMENT PER DIRECTION | MAINLINE (-L-) SIGNING | | -Y- LINE SIGNING | |
|---|------------------------|---|---|--|
| | ① ② | W20-1 48" X 48" W7-3gP 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 RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS) | 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 |
| | ③ | SP 13107 48" X 48" | PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER. | WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK. |
| | ④ | 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. | W20-1 48" X 48" W20-7 A 48" X 48" |
| | ⑤ | G20-2 A 48" X 24" | PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS. | PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER. |

8/8/2013 5:15:10 PM S:\TMD\WZTC\Resurfacing\2013\Documents\New_Procedures_05-09-2013\Resurfacing_AdvWarn_2Ln.dgn User:rmgarrett



RESURFACING
 ADVANCE WARNING SIGNS
 FOR
 RURAL AND SUBURBAN
 2 LANE ROADWAYS