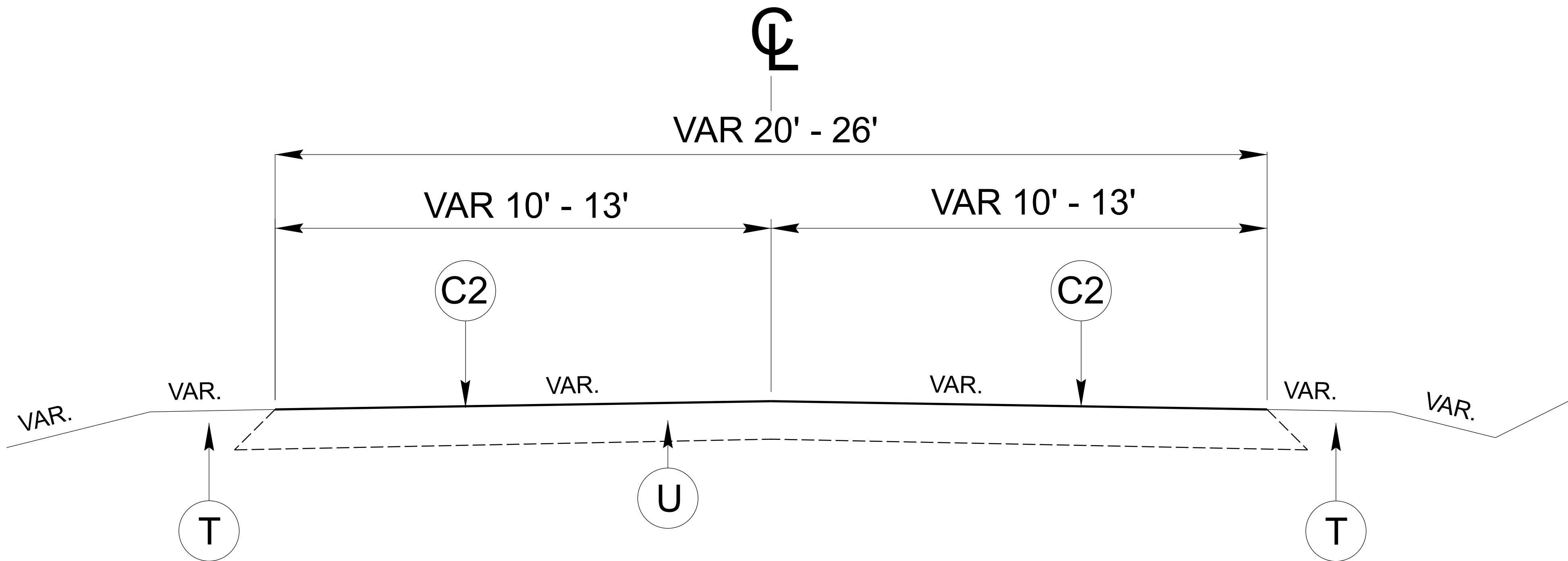


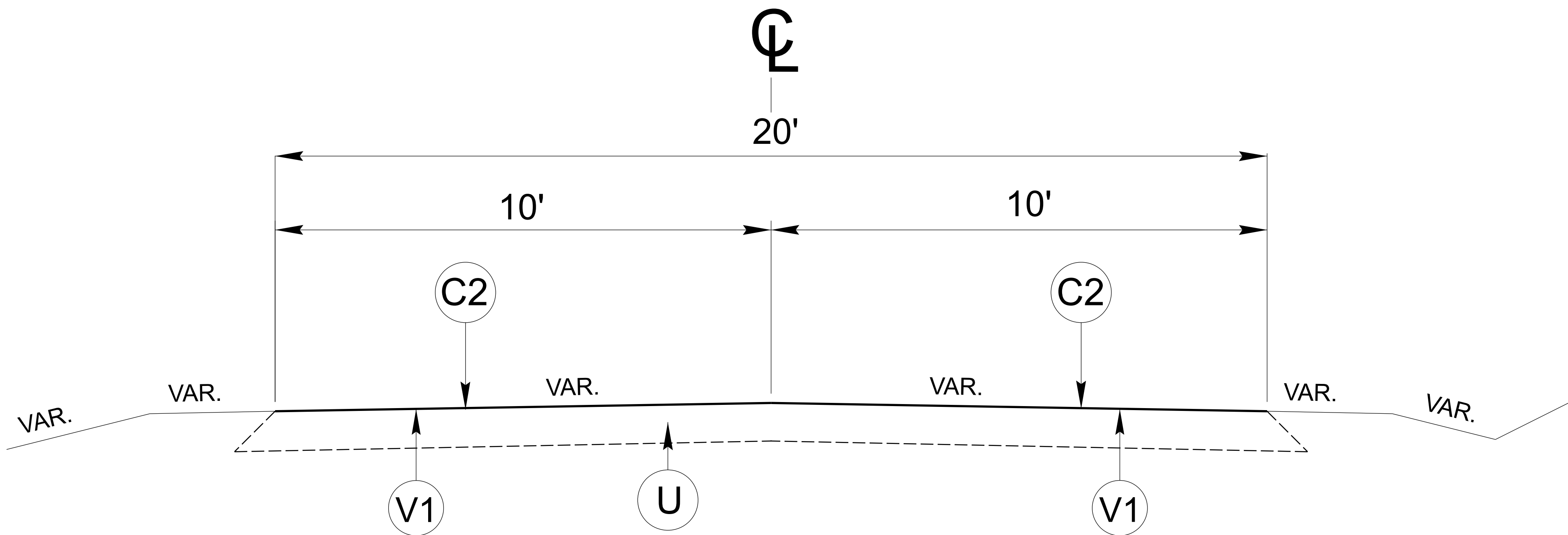
5/26/20

- \* "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

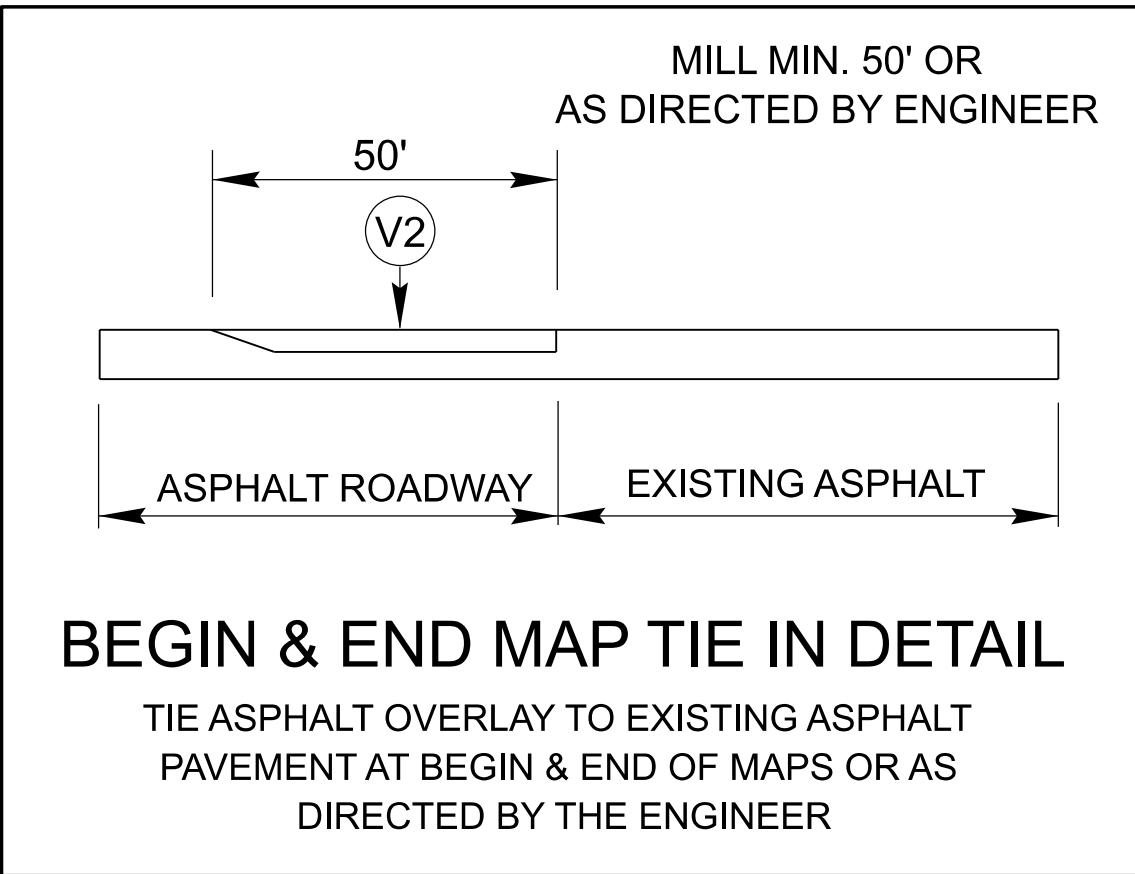
MAP 1 - NC 105 FROM SR 1594 TO NORTHERN INTERSECTION OF SR 1568  
MAP 2 - SR 1233 OLD US HWY 421 FROM SR 1306 TO US 421



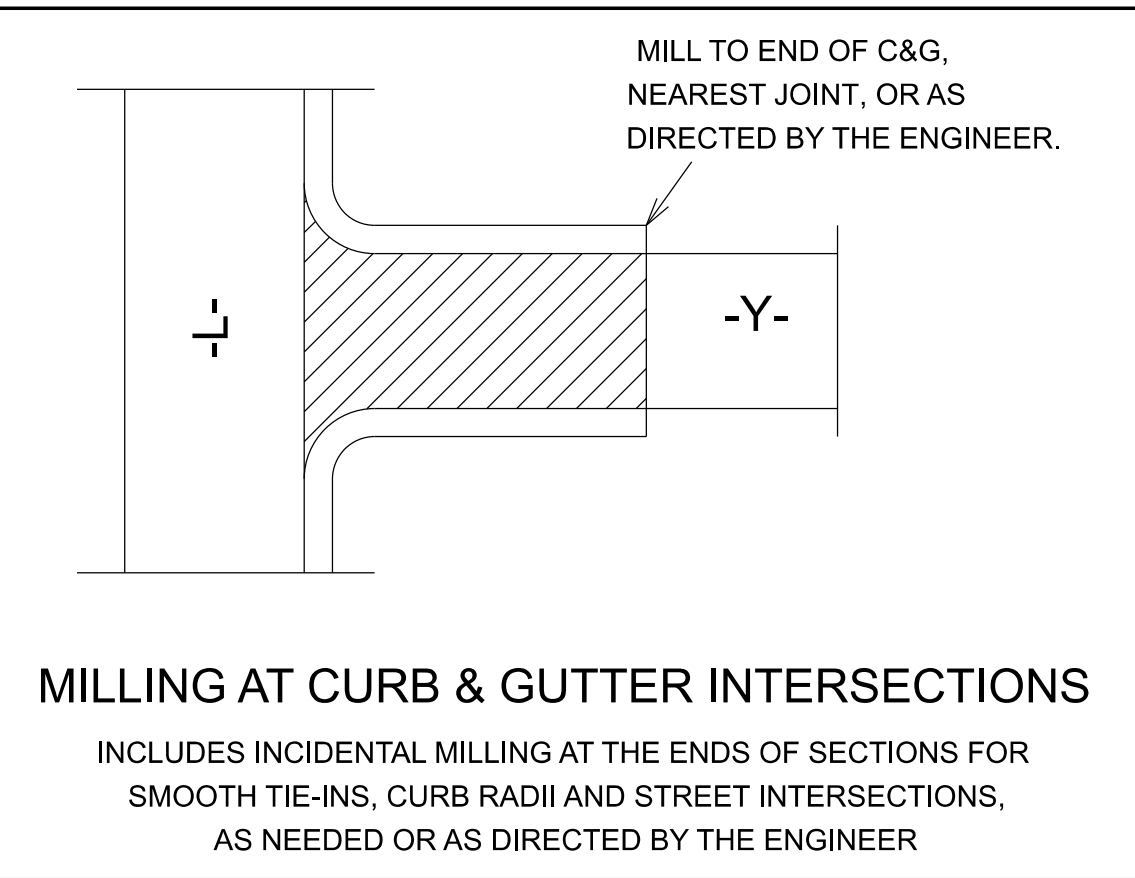
TYPICAL SECTION NO. 2

MAP 3 - SR 1401 BROOKSHIRE RD FROM US 221 TO SR 1328  
MAP 4 - SR 1510 LITTLE LAUREL RD/JAKES MTN. RD FROM SR 1514 TO SR 1511

| PAVEMENT SCHEDULE |                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------|
| C1                | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 165 LBS. PER SQ. YD. |
| C2                | 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 1 ½"                                                  |
| V2                | INCIDENTAL MILLING (See Tie in Detail)                                                                 |



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



MILLING AT CURB & GUTTER INTERSECTIONS  
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

NOTE: TYPICALS ARE NOT TO SCALE

DK00491

001

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION of HIGHWAYS

DIVISION ELEVEN

WATAUGA COUNTY  
PRIMARY & SECONDARY  
ROADS  
2027 ASPHALT  
RESURFACING

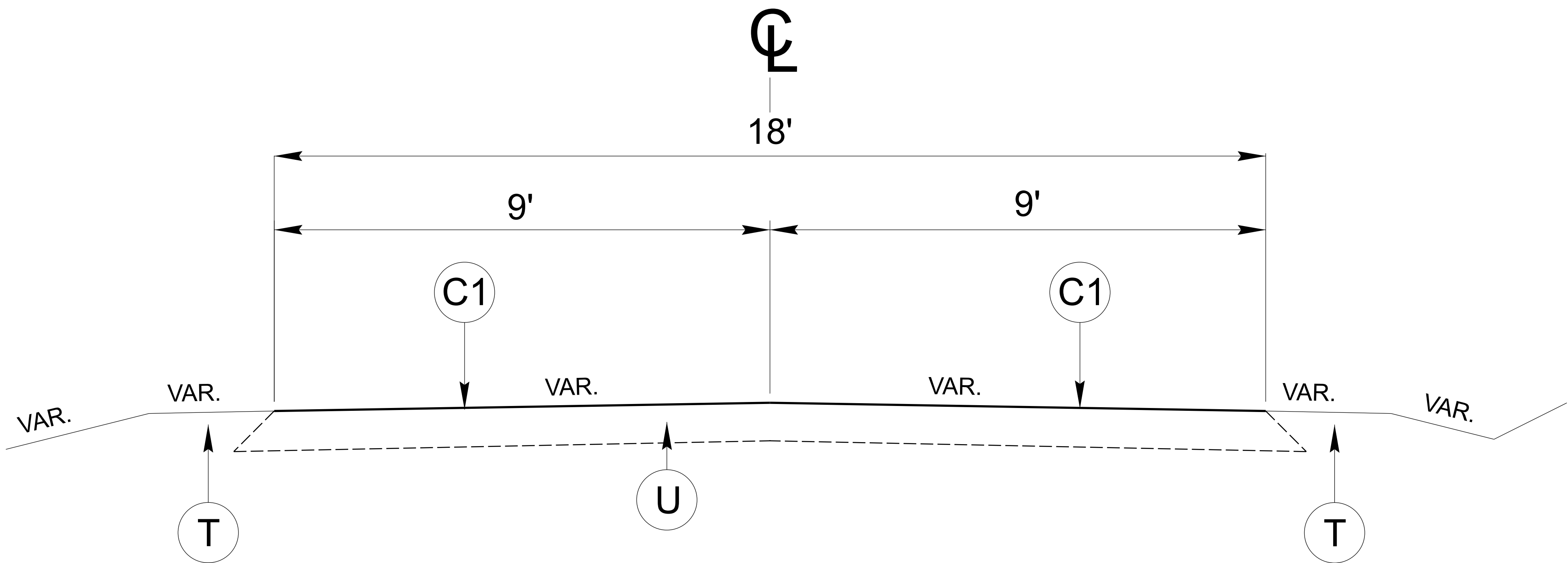
DIVISION of HIGHWAYS  
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

DATE: 7/30/2026  
PREPARED BY: DLH

REVISIONS

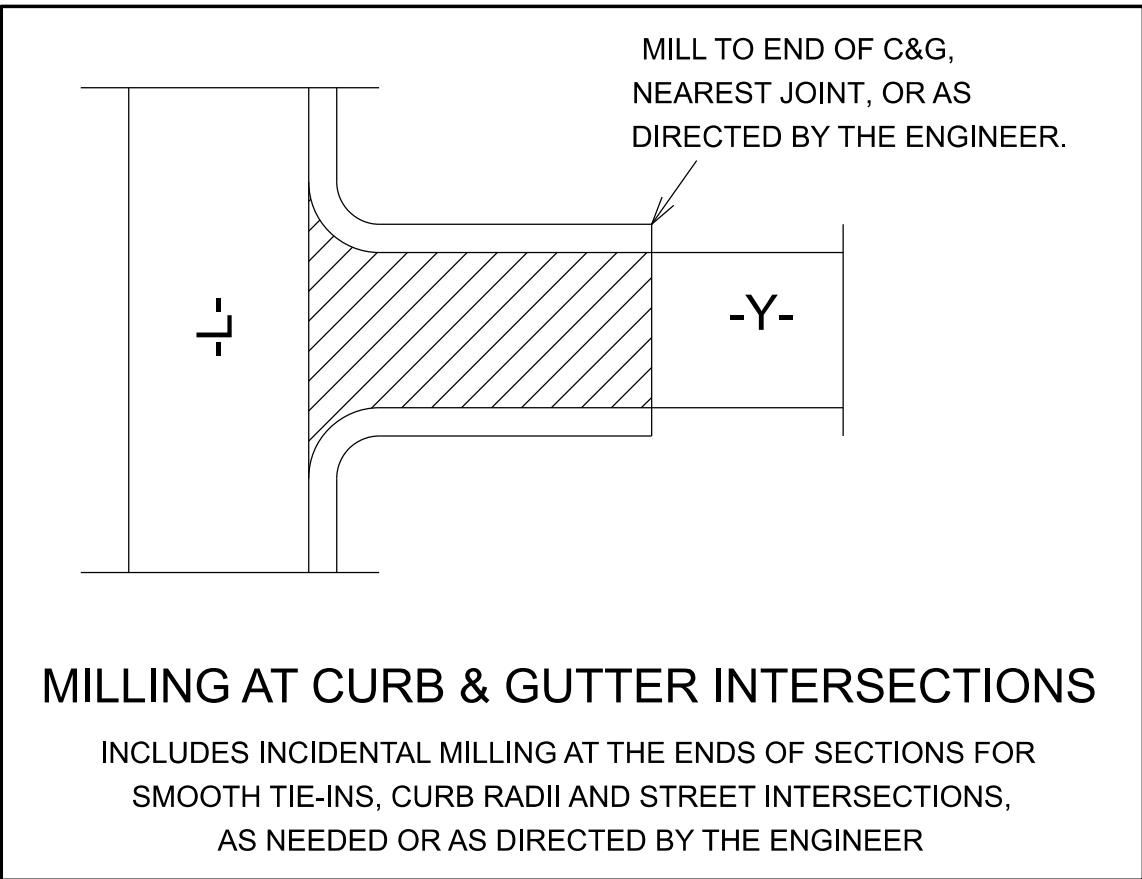
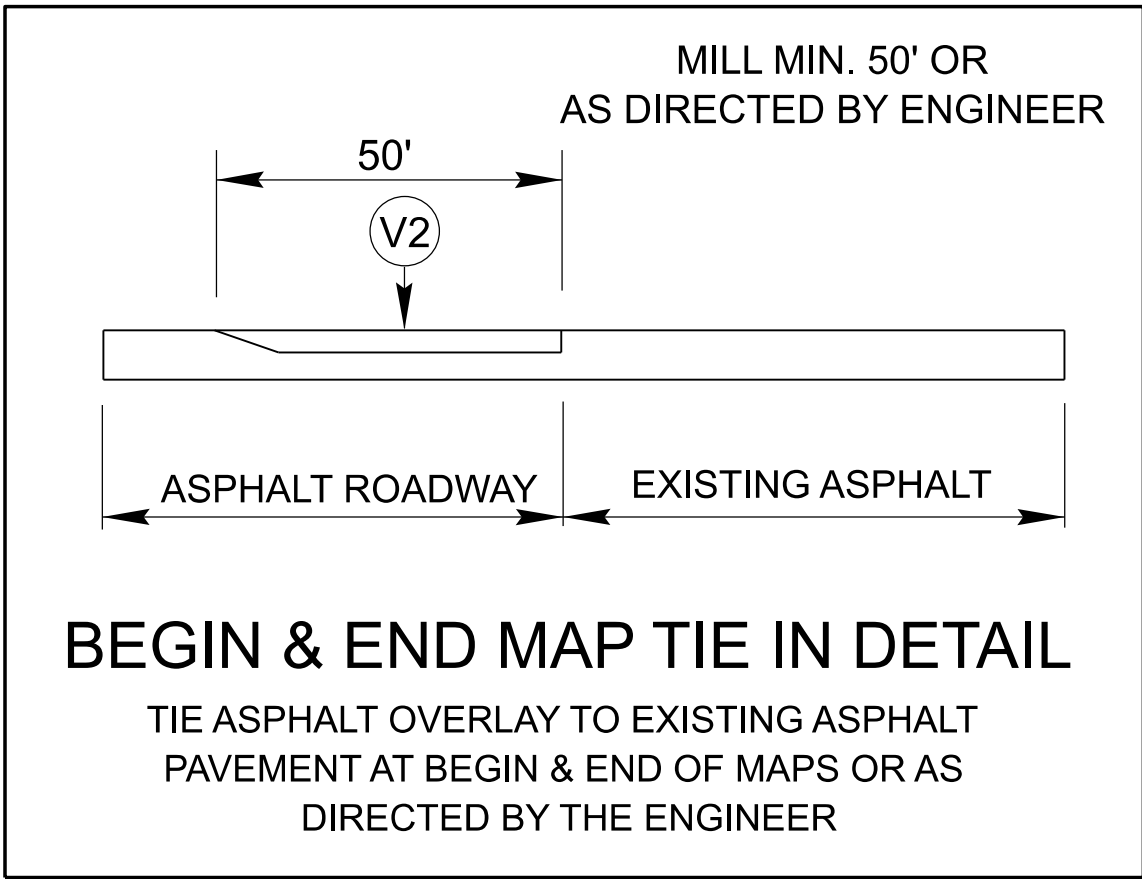
5/26/20

- \* "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. 3**  
MAP 5 - SR 1542 OLD BLOWING ROCK RD FROM US 321 TO DEAD END

| PAVEMENT SCHEDULE |                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------|
| C1                | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 165 LBS. PER SQ. YD. |
| C2                | 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 1 ½"                                                  |
| V2                | INCIDENTAL MILLING (See Tie in Detail)                                                                 |



NOTE: TYPICALS ARE NOT TO SCALE

DK00491

002

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION of HIGHWAYS

DIVISION ELEVEN

WATAUGA COUNTY

PRIMARY & SECONDARY  
ROADS

2027 ASPHALT  
RESURFACING

DIVISION OF HIGHWAYS  
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

DATE: 7/30/2026

PREPARED BY: DLH

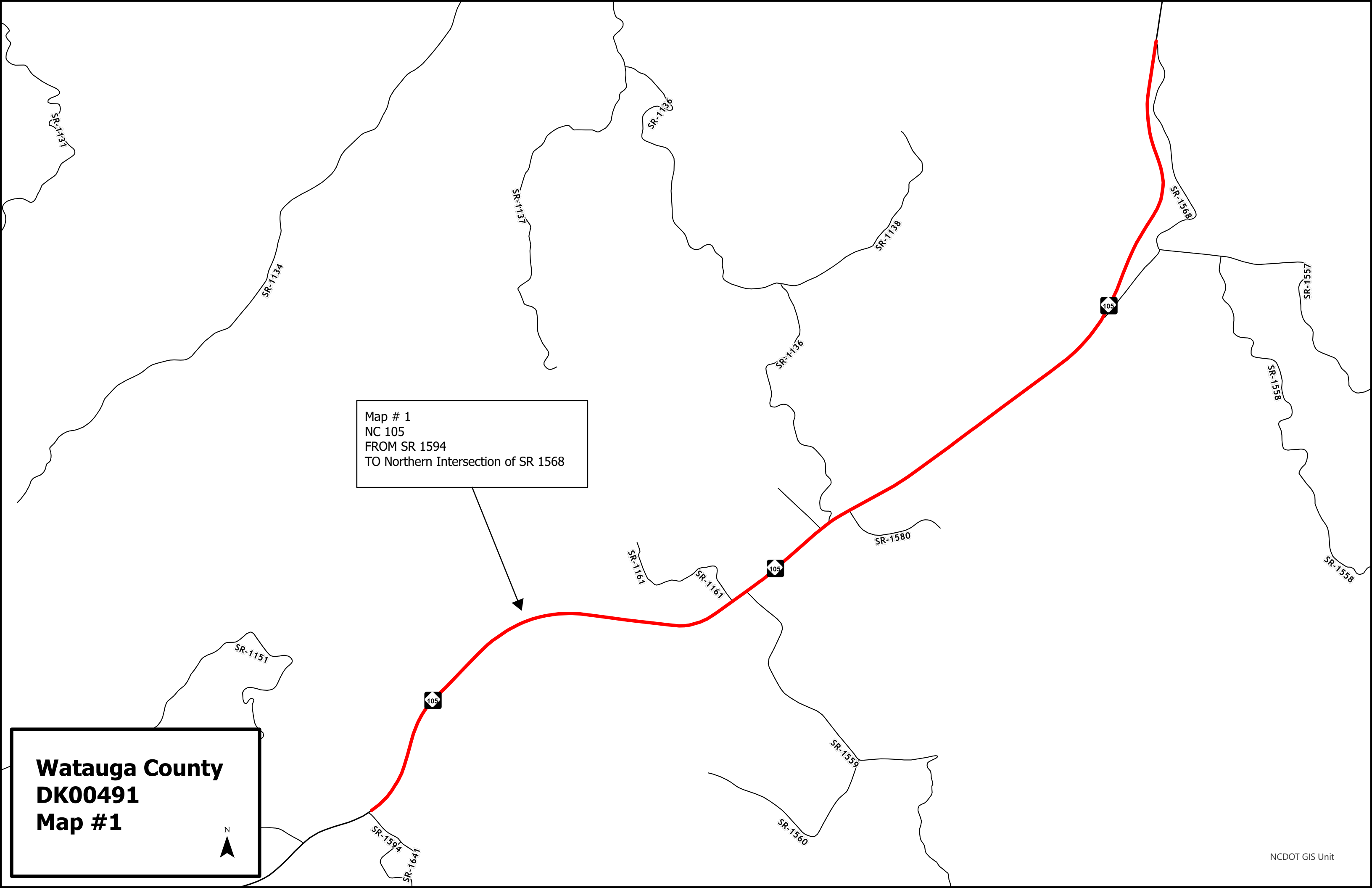
REVISIONS

|                                        |         |        |                                                 |                                                  |        |       |           |        |       |                 |               |                       |                         |                           |              |                    |                        |                        |                              |                            |                 |            |           |
|----------------------------------------|---------|--------|-------------------------------------------------|--------------------------------------------------|--------|-------|-----------|--------|-------|-----------------|---------------|-----------------------|-------------------------|---------------------------|--------------|--------------------|------------------------|------------------------|------------------------------|----------------------------|-----------------|------------|-----------|
|                                        |         |        |                                                 |                                                  |        |       |           |        |       |                 |               |                       |                         |                           |              |                    |                        |                        |                              |                            |                 | CONTRACT # | SHEET NO. |
|                                        |         |        |                                                 |                                                  |        |       |           |        |       |                 |               |                       |                         |                           |              |                    |                        |                        |                              |                            |                 | DK00491    | 3         |
| SUMMARY OF QUANTITIES                  |         |        |                                                 |                                                  |        |       |           |        |       |                 |               |                       |                         |                           |              |                    |                        |                        |                              |                            |                 |            |           |
|                                        |         |        |                                                 |                                                  |        |       |           |        |       |                 |               | 1220000000-E          | 1245000000-E            | 1260000000-E              | 1297000000-E | 1330000000-E       | 1519000000-E           | 1523000000-E           | 1575000000-E                 | 1704000000-E               | 2830000000-N    |            |           |
| PROJECT NO                             | COUNTY  | MAP NO | ROUTE                                           | DESCRIPTION                                      | TYP NO | LANES | LANE TYPE | LENGTH | WIDTH | BEGIN MILE POST | END MILE POST | INCIDENTAL STONE BASE | SHOULDER RECONSTRUCTION | AGGREGATE SHOULDER BORROW | 1½" MILLING  | INCIDENTAL MILLING | SURFACE COURSE, \$9.5B | SURFACE COURSE, \$9.5C | ASPHALT BINDER FOR PLANT MIX | PATCHING EXISTING PAVEMENT | ADJUST MANHOLES |            |           |
|                                        |         |        |                                                 |                                                  |        |       |           | MI     | FT    |                 |               | TONS                  | SMI                     | TON                       | SY           | SY                 | TONS                   | TONS                   | TON                          | TONS                       | EA              |            |           |
| 2027CPT.11.03.10951                    | Watauga | 1      | NC-105 N / NC HWY 105 S                         | FROM SR 1594 TO NORTHERN INTERSECTION OF SR 1568 | 1      | 2     | 2WU       | 3.970  | 26    | 1.760           | 5.730         | 75                    | 7.8                     | 780                       |              | 200                |                        | 5,367                  | 317                          |                            |                 |            |           |
| TOTAL FOR PROJ NO. 2027CPT.11.03.10951 |         |        |                                                 |                                                  |        |       |           | 3.970  |       |                 |               | 75                    | 7.8                     | 780                       |              | 200                |                        | 5,367                  | 317                          |                            |                 |            |           |
|                                        |         |        |                                                 |                                                  |        |       |           |        |       |                 |               |                       |                         |                           |              |                    |                        |                        |                              |                            |                 |            |           |
| 2027CPT.11.03.20951                    | Watauga | 2      | SR-1233 / OLD US HWY 421                        | FROM SR 1306 TO US 421                           | 1      | 2     | 2WU       | 4.410  | 20    | 3.670           | 8.080         | 15                    | 8.8                     | 880                       |              | 100                |                        | 4,592                  | 278                          | 150                        |                 |            |           |
| 2027CPT.11.03.20951                    | Watauga | 3      | SR-1401 / BROOKSHIRE ROAD                       | FROM US 221 TO SR 1328                           | 2      | 2     | 2WU       | 0.190  | 20    | 0.010           | 0.200         |                       |                         |                           | 2,229        |                    |                        | 198                    | 12                           |                            | 4               |            |           |
| 2027CPT.11.03.20951                    | Watauga | 4      | SR-1510 / LITTLE LAUREL RD//JAKES MOUNTAIN ROAD | FROM SR 1514 TO SR 1511                          | 2      | 2     | 2WU       | 0.190  | 20    | 0.000           | 0.190         |                       |                         |                           | 2,229        |                    |                        | 198                    | 12                           |                            |                 |            |           |
| 2027CPT.11.03.20951                    | Watauga | 5      | SR-1542 / OLD BLOWING ROCK ROAD                 | US 321 TO DEAD END                               | 3      | 2     | 2WU       | 0.478  | 18    | 0.000           | 0.478         |                       | 1.0                     | 100                       |              | 450                | 432                    |                        | 28                           |                            |                 |            |           |
| TOTAL FOR PROJ NO. 2027CPT.11.03.20951 |         |        |                                                 |                                                  |        |       |           | 5.268  |       |                 |               | 15                    | 9.8                     | 980                       | 4,458        | 550                | 432                    | 4,988                  | 330                          | 150                        | 4               |            |           |
|                                        |         |        |                                                 |                                                  |        |       |           |        |       |                 |               |                       |                         |                           |              |                    |                        |                        |                              |                            |                 |            |           |
| GRAND TOTAL                            |         |        |                                                 |                                                  |        |       |           | 9.238  |       |                 |               | 90                    | 17.6                    | 1,760                     | 4,458        | 750                | 432                    | 10,355                 | 647                          | 150                        | 4               |            |           |

[Mile Post Map](#)

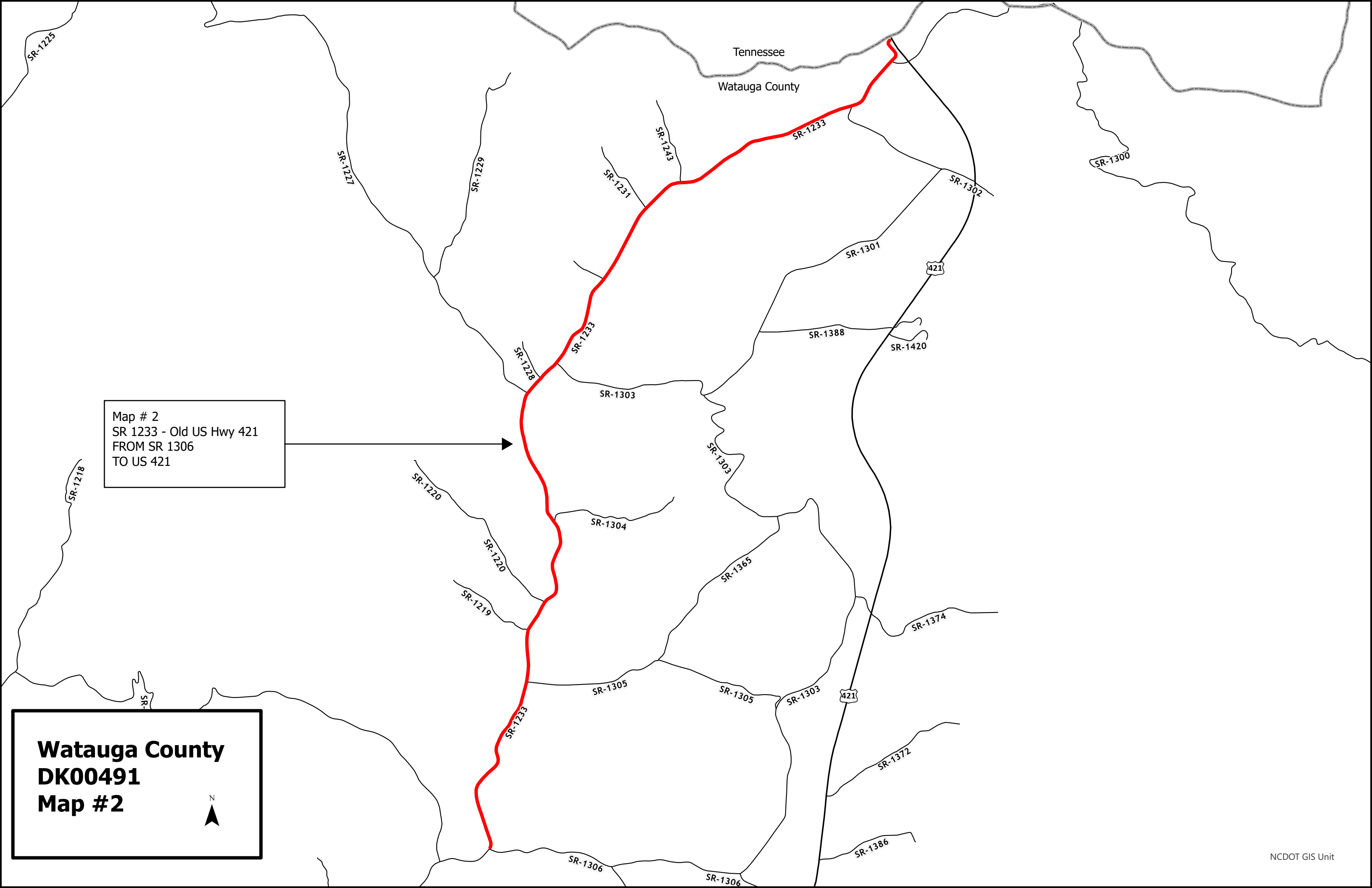
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           |                                  |                                   |                                 |                                                            |                               |  |
|----------------------------------------|---------|--------|------------------------------------------------|--------------------------------------------------|--------|-------|-----------|--------|-------|-----------------|---------------|--------------------------------------------|---------------------------|----------------------------------|-----------------------------------|---------------------------------|------------------------------------------------------------|-------------------------------|--|
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           |                                  |                                   | CONTRACT #                      |                                                            | SHEET NO.                     |  |
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           |                                  |                                   | DK00491                         |                                                            | 4                             |  |
| THERMOPLASTIC AND PAINT QUANTITIES     |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           |                                  |                                   |                                 |                                                            |                               |  |
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               | 4413000000-E                               | 4457000000-N              | 4725000000-E                     |                                   | 4810000000-E                    | 4890000000-E                                               | 4895000000-N                  |  |
| PROJECT NO                             | COUNTY  | MAP NO | ROUTE                                          | DESCRIPTION                                      | TYP NO | LANES | LANE TYPE | LENGTH | WIDTH | BEGIN MILE POST | END MILE POST | WORK ZONE ADVANCE/ GENERAL WARNING SIGNING | TEMPORARY TRAFFIC CONTROL | THERMOPLASTIC LEFT ARROW 90 MILS | THERMOPLASTIC MERGE ARROW 90 MILS | PAINT PAVEMENT MARKING LINES 4" | HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES 4", 65 MILS | POLYCARBONATE H-SHAPED MARKER |  |
|                                        |         |        |                                                |                                                  |        |       |           | MI     | FT    |                 |               | SF                                         | LS                        | EA                               | EA                                | LF                              | LF                                                         | EA                            |  |
| 2027CPT.11.03.10951                    | Watauga | 1      | NC-105 N / NC HWY 105 S                        | FROM SR 1594 TO NORTHERN INTERSECTION OF SR 1568 | 1      | 2     | 2WU       | 3.97   | 26    | 1.76            | 5.73          | 260                                        | 0.49                      | 3                                | 3                                 |                                 | 90,000                                                     | 555                           |  |
| TOTAL FOR PROJ NO. 2027CPT.11.03.10951 |         |        |                                                |                                                  |        |       |           | 3.97   |       |                 |               | 260                                        | 0.49                      | 3                                | 3                                 |                                 | 90,000                                                     | 555                           |  |
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           | 6                                |                                   |                                 |                                                            |                               |  |
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           |                                  |                                   |                                 |                                                            |                               |  |
| 2027CPT.11.03.20951                    | Watauga | 2      | SR-1233 / OLD US HWY 421                       | FROM SR 1306 TO US 421                           | 1      | 2     | 2WU       | 4.41   | 20    | 3.67            | 8.08          | 280                                        | 0.43                      |                                  |                                   |                                 | 92,960                                                     |                               |  |
| 2027CPT.11.03.20951                    | Watauga | 3      | SR-1401 / BROOKSHIRE ROAD                      | FROM US 221 TO SR 1328                           | 2      | 2     | 2WU       | 0.19   | 20    | 0.01            | 0.2           | 112                                        | 0.02                      |                                  |                                   | 4,300                           | 4,500                                                      | 30                            |  |
| 2027CPT.11.03.20951                    | Watauga | 4      | SR-1510 / LITTLE LAUREL RD/JAKES MOUNTAIN ROAD | FROM SR 1514 TO SR 1511                          | 2      | 2     | 2WU       | 0.19   | 20    | 0               | 0.19          | 112                                        | 0.02                      |                                  |                                   | 4,000                           | 3,780                                                      | 25                            |  |
| 2027CPT.11.03.20951                    | Watauga | 5      | SR-1542 / OLD BLOWING ROCK ROAD                | US 321 TO DEAD END                               | 3      | 2     | 2WU       | 0.478  | 18    | 0               | 0.478         | 112                                        | 0.04                      |                                  |                                   |                                 | 4,400                                                      |                               |  |
| TOTAL FOR PROJ NO. 2027CPT.11.03.20951 |         |        |                                                |                                                  |        |       |           | 5.268  |       |                 |               | 616                                        | 0.510                     |                                  |                                   | 8,300                           | 105,640                                                    | 55                            |  |
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           |                                  |                                   |                                 |                                                            |                               |  |
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           |                                  |                                   |                                 |                                                            |                               |  |
| GRAND TOTAL                            |         |        |                                                |                                                  |        |       |           | 9.238  |       |                 |               | 876                                        | 1.000                     | 3                                | 3                                 | 8,300                           | 195,640                                                    | 610                           |  |
|                                        |         |        |                                                |                                                  |        |       |           |        |       |                 |               |                                            |                           | 6                                |                                   |                                 |                                                            |                               |  |

[Mile Post Map](#)



Map # 1  
NC 105  
FROM SR 1594  
TO Northern Intersection of SR 1568

**Watauga County**  
**DK00491**  
**Map #1**



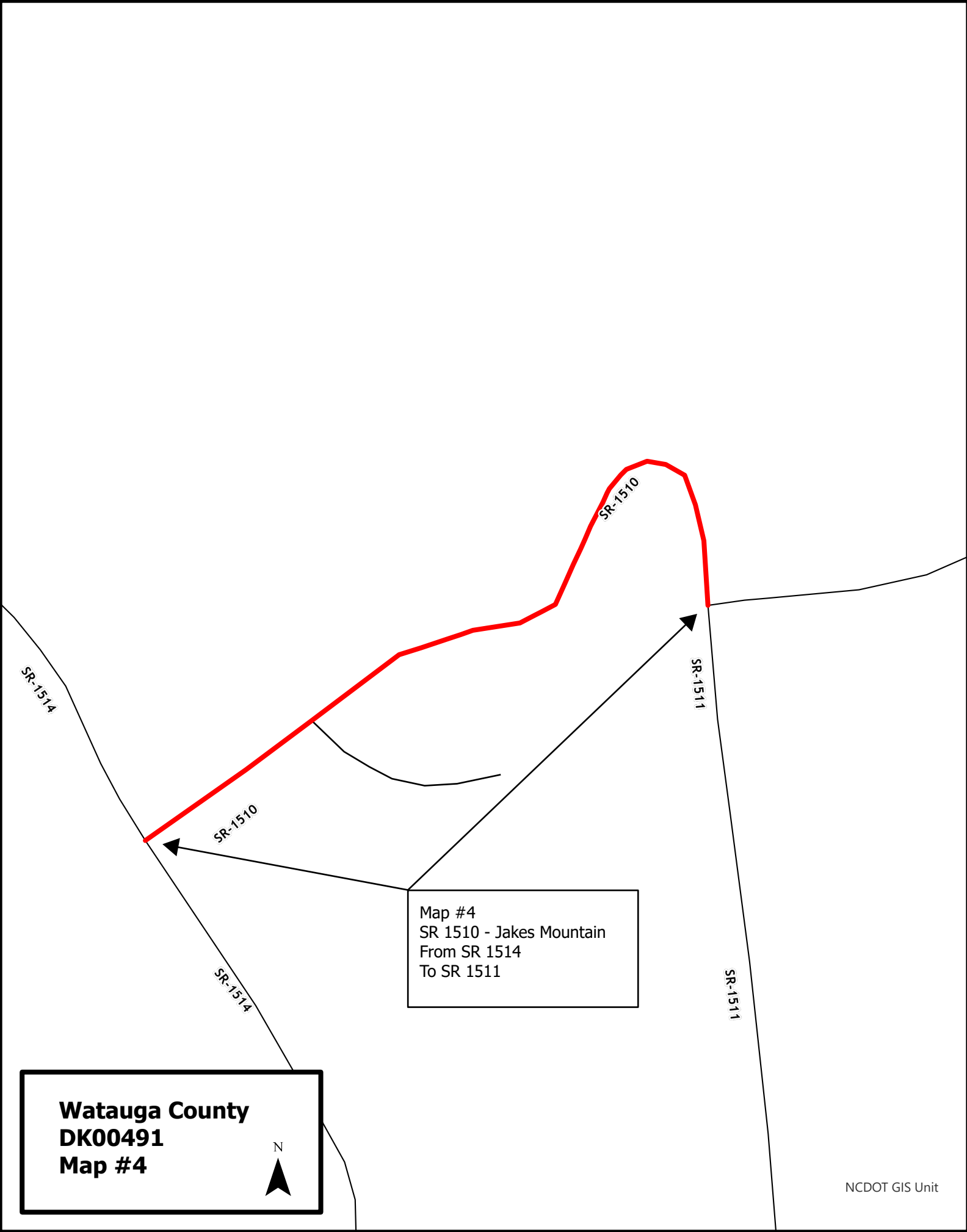
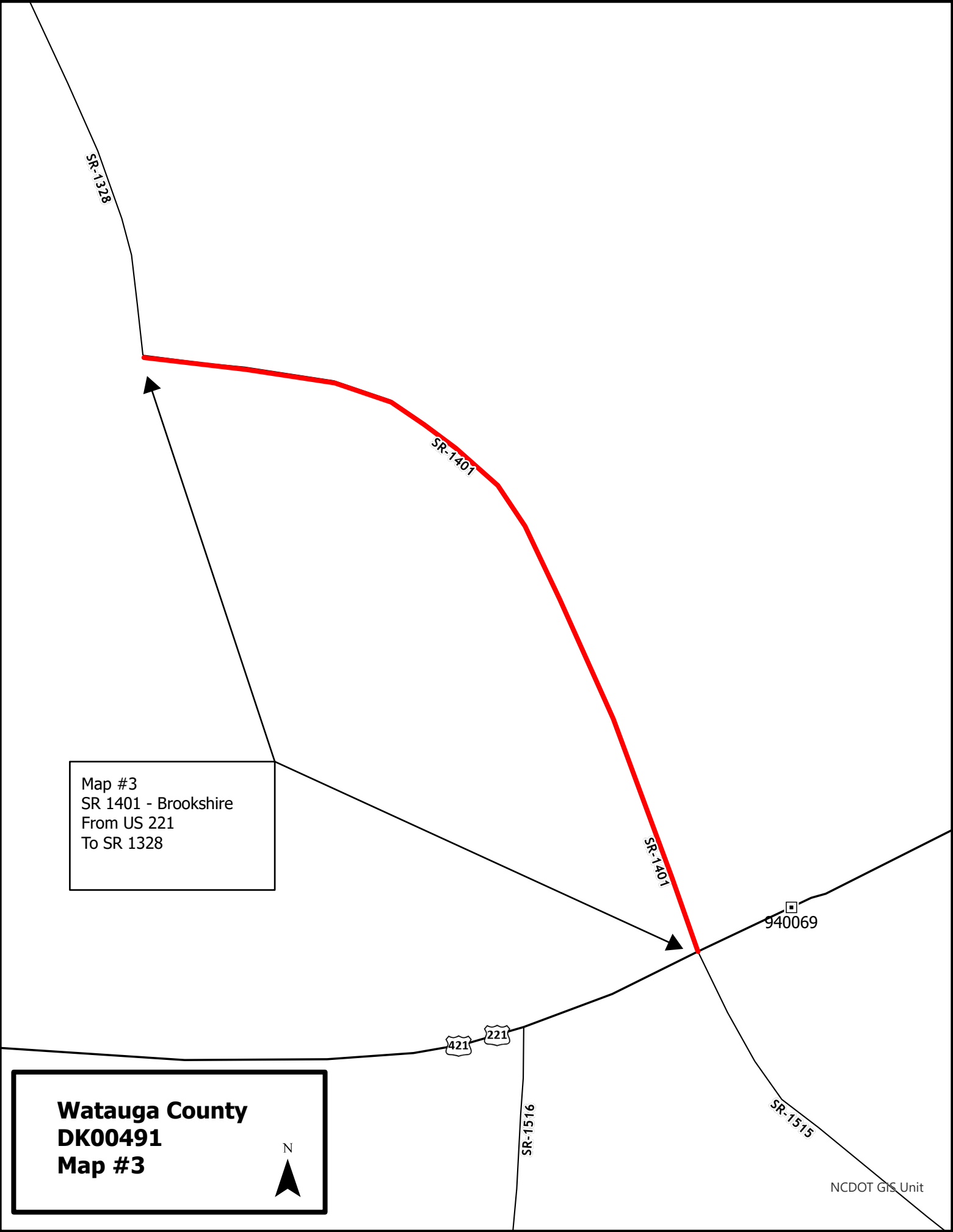
Tennessee

Watauga County

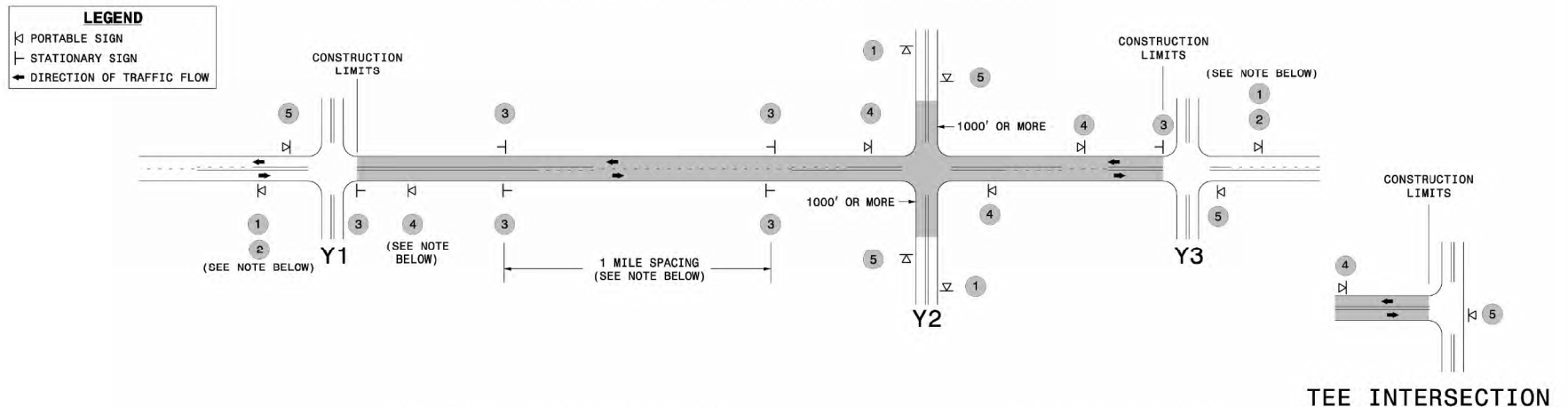
Map # 2  
SR 1233 - Old US Hwy 421  
FROM SR 1306  
TO US 421

**Watauga County**  
**DK00491**  
**Map #2**

N



## SIGNING FOR ASPHALT SURFACE TREATMENT



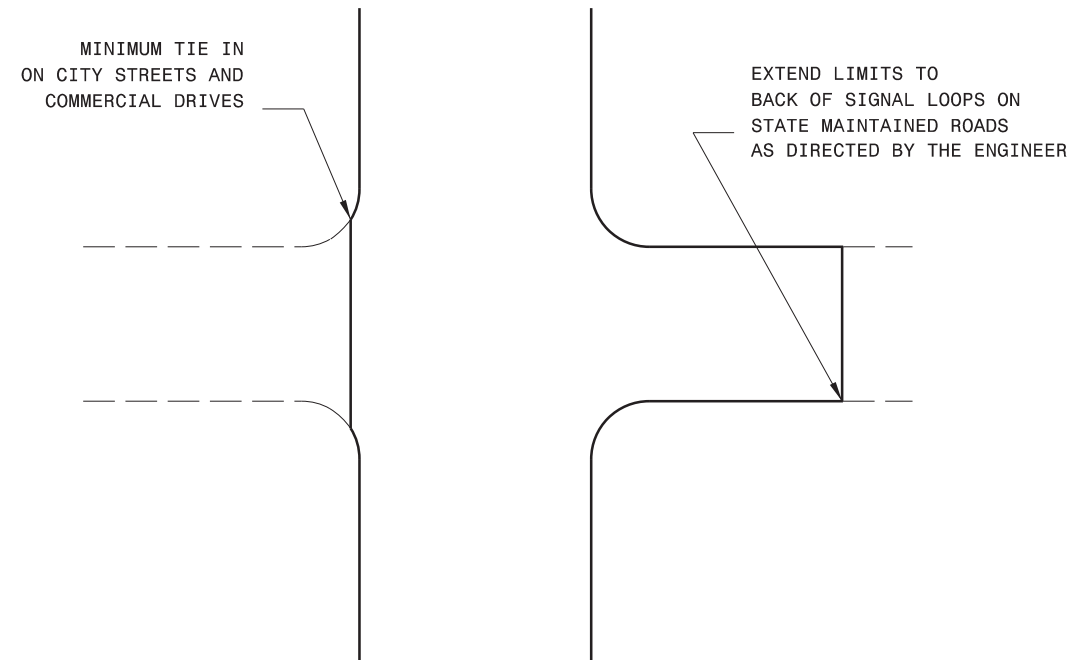
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

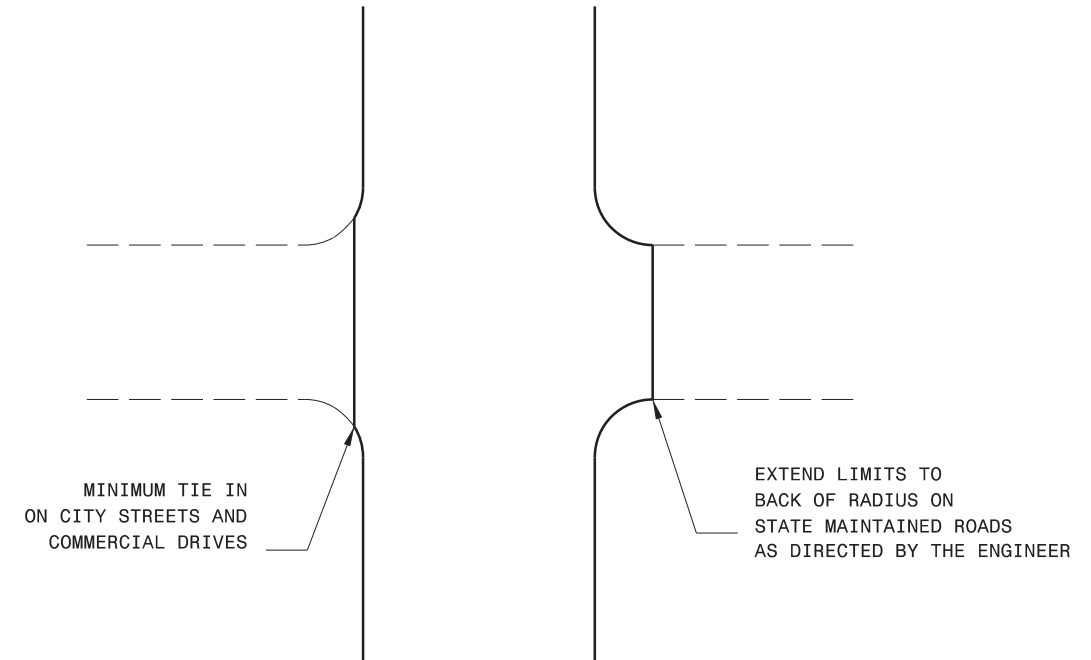
|                                                                                                                                                                                                                                                                                  |   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIGNING NOTES AND<br>PLACEMENT PER DIRECTION                                                                                                                                                                                                                                     | 1 |  | <ul style="list-style-type: none"> <li>- PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</li> </ul>                                                                                                                                                                                                                                                                                                                                 | <p><b>STATIONARY SIGNING NOT REQUIRED FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> |
|                                                                                                                                                                                                                                                                                  | 2 |  | <ul style="list-style-type: none"> <li>- SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.</li> </ul>                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                  | 3 |  | <ul style="list-style-type: none"> <li>- ALTERNATE THE FOLLOWING TWO SIGNS:</li> <li>- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</li> </ul>                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                  |   |  | <ul style="list-style-type: none"> <li>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.</li> <li>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li> </ul>                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                  | 4 |  | <ul style="list-style-type: none"> <li>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li> <li>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li> <li>- 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.</li> <li>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li> </ul> |                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                  | 5 |  | <p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                  |
| <p>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.</p>                                                    |   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                  |
| <p>FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.</p> |   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                  |



ADVANCE WARNING SIGNS  
FOR  
2-LANE ROADWAY  
ASPHALT SURFACE TREATMENT



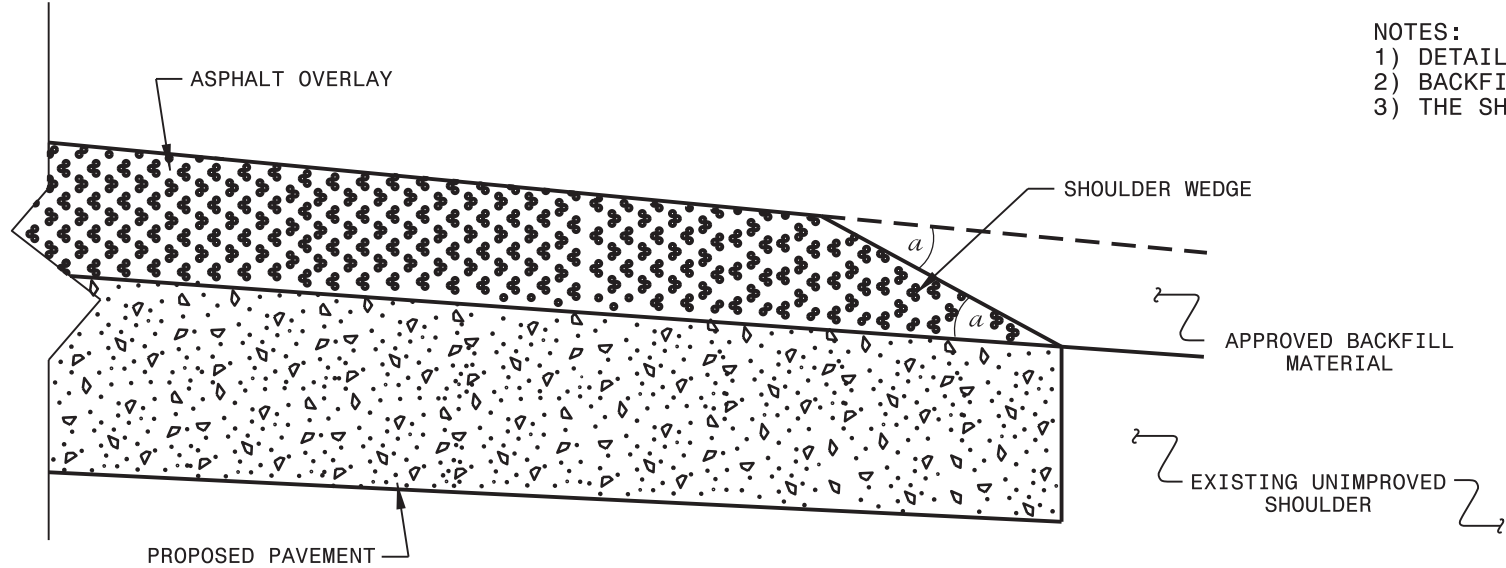
TYPICAL DETAIL OF PROJECT LIMITS AT  
SIGNALIZED Y LINES



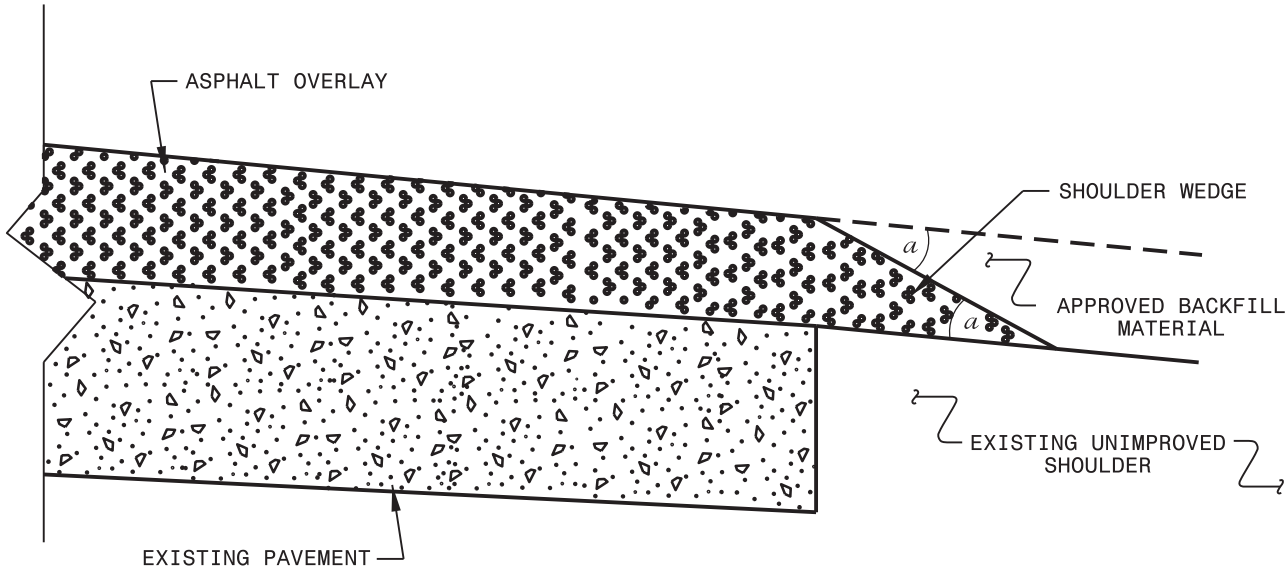
TYPICAL DETAIL OF PROJECT LIMITS AT  
UNSIGNALIZED Y LINES

[illegible]

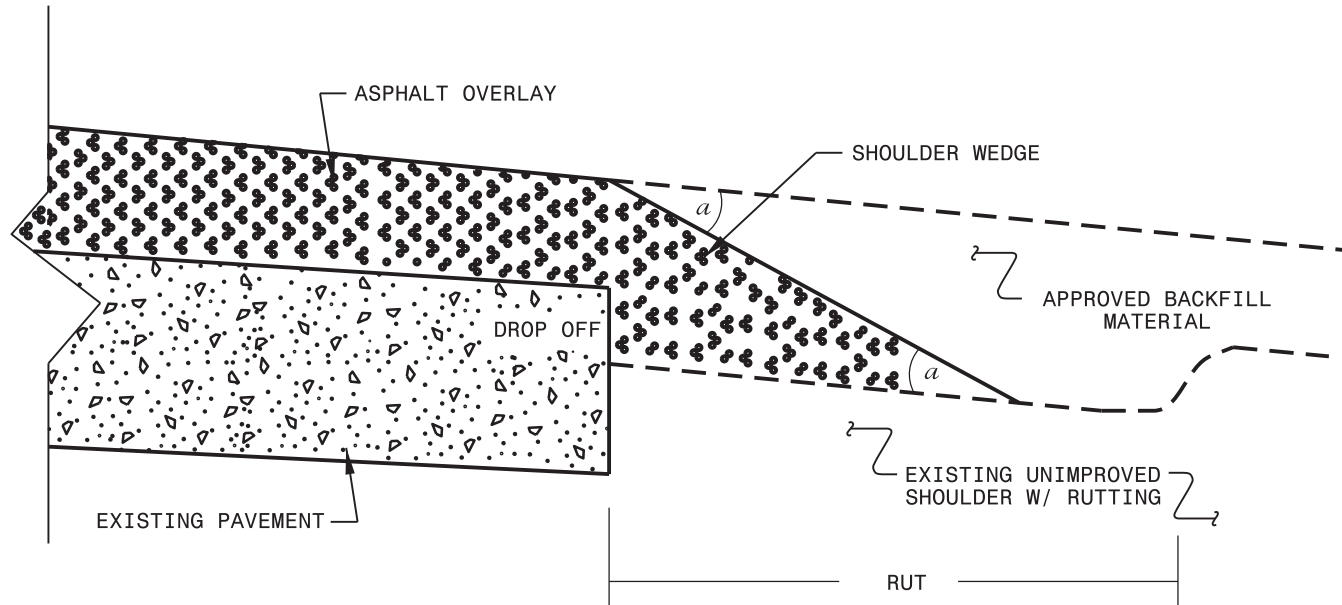
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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

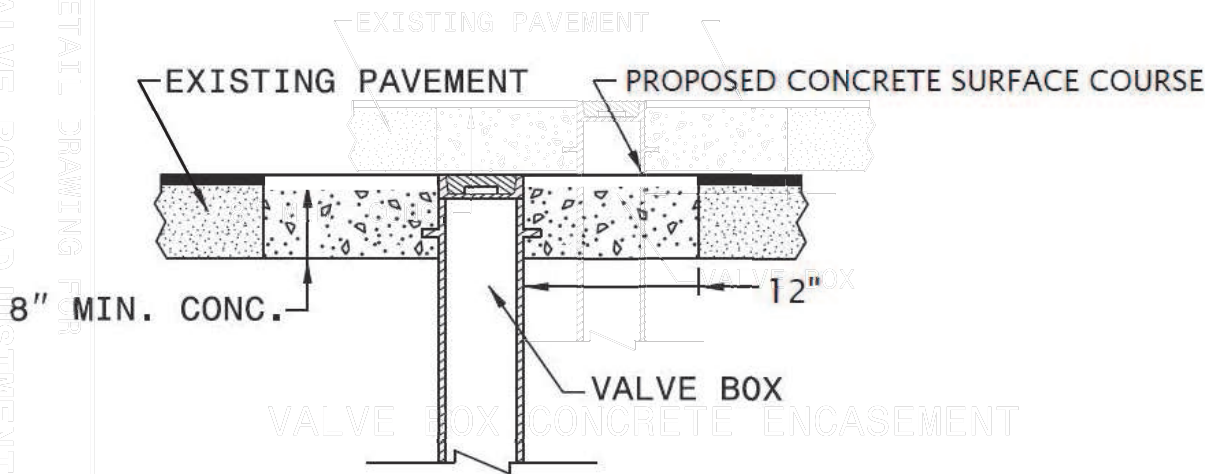
**SHOULDER WEDGE  
DETAILS**

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

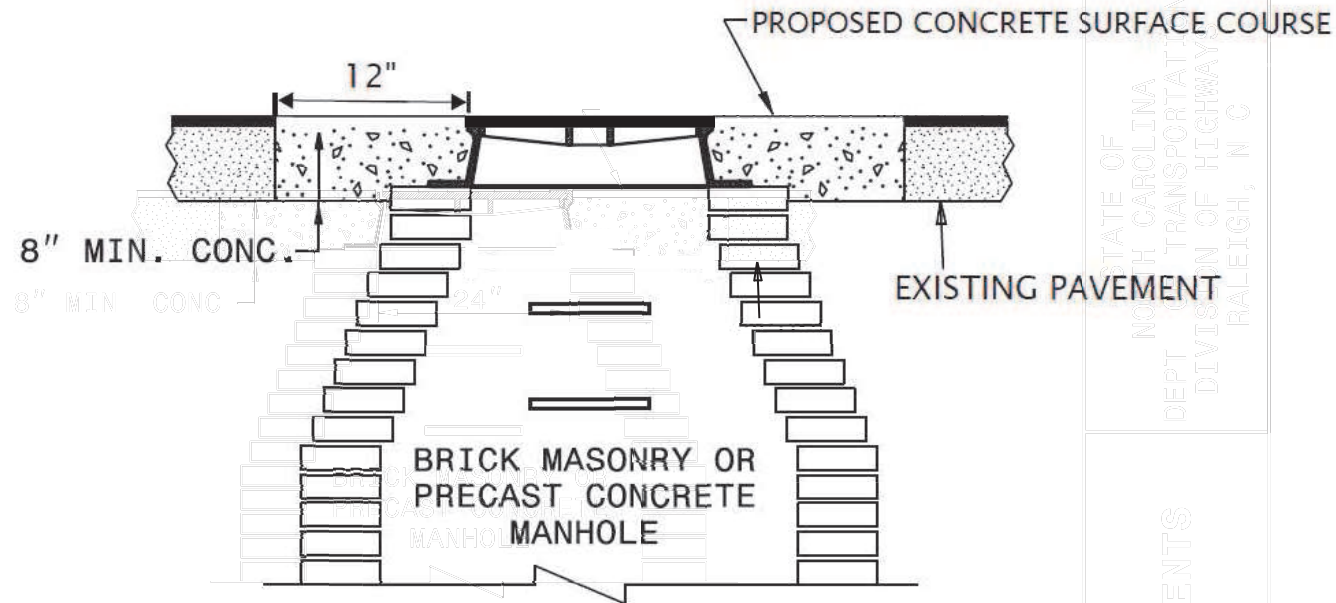
GENERAL NOTES:

1. USE RAPID SET DYED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT RECTANGULAR EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES. NO OVERSAW CUTS ALLOWED IN CORNERS.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS 1/2" +/- 1/8"

VALVE BOX CONCRETE ENCASEMENT



MANHOLE CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

