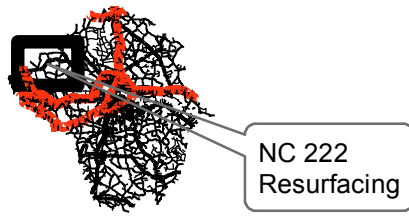


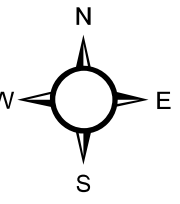
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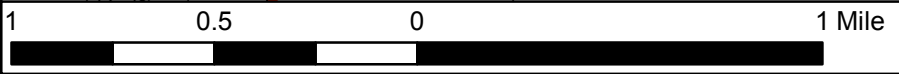
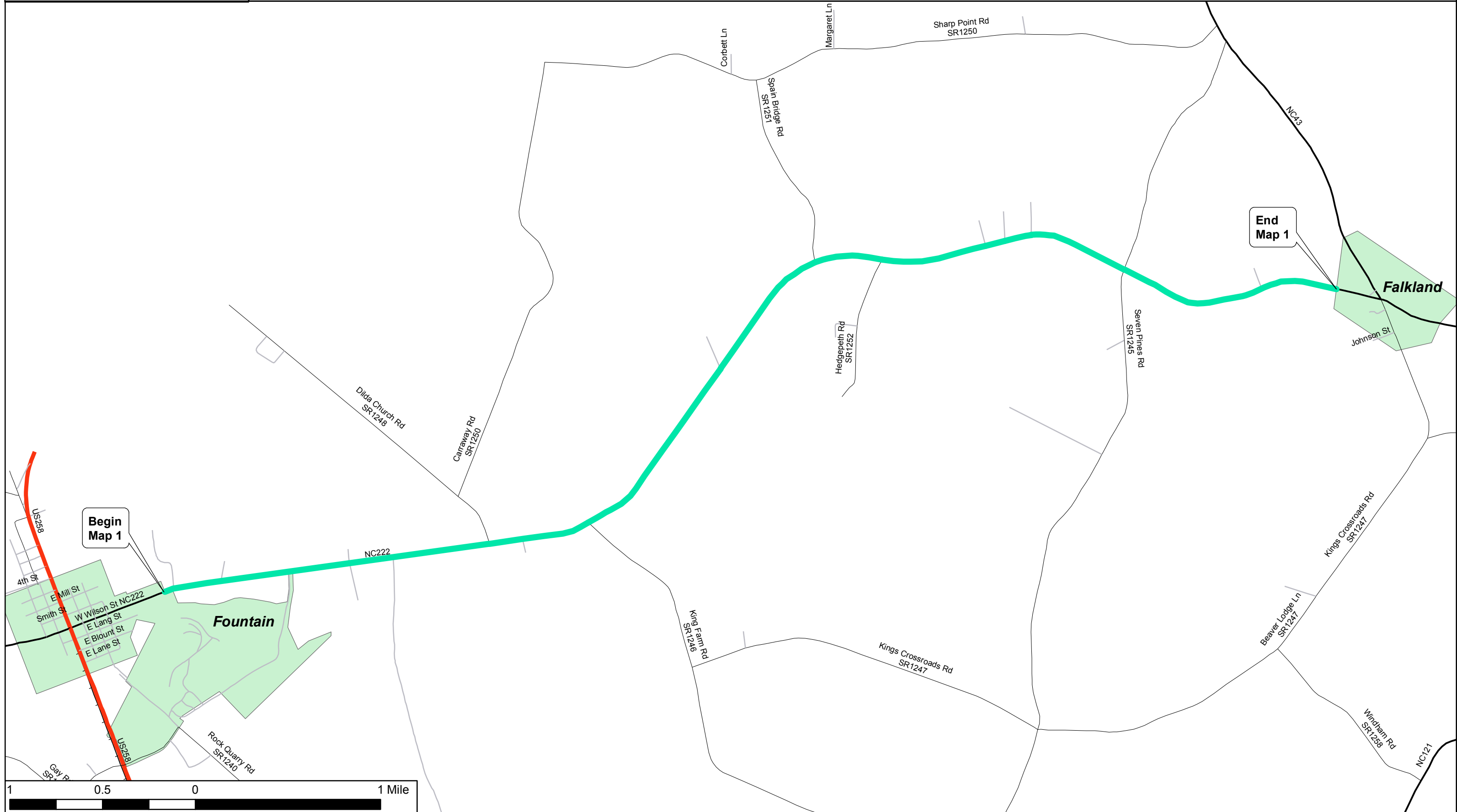


NC 222  
Resurfacing



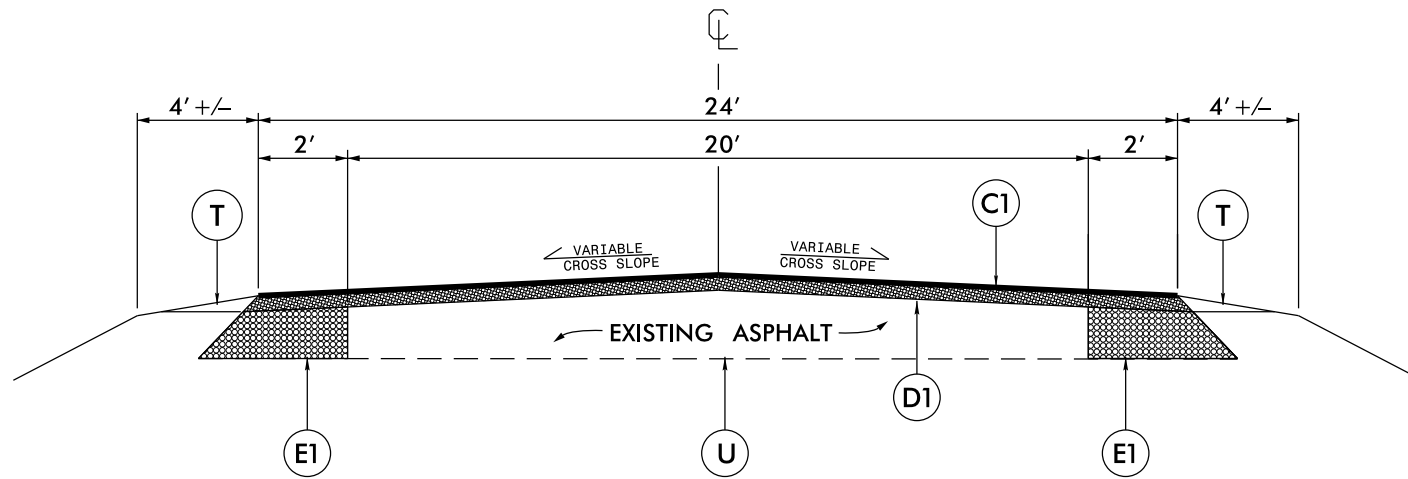
# MAP 1

WBS: 2016CPT.02.02.10741.1  
Resurface NC 222 from  
Outside of Fountain to Falkland



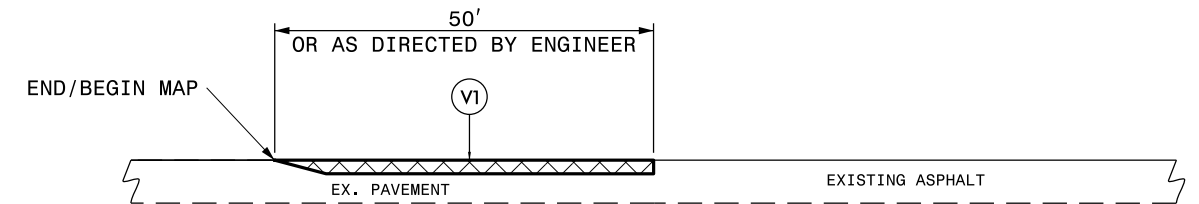
## TYPICAL SECTION NO. 1

MAP 1: WIDEN, STRENGTHEN AND RESURFACE NC 222  
FROM OUTSIDE OF FOUNTAIN TO FALKLAND



**NOTE:**

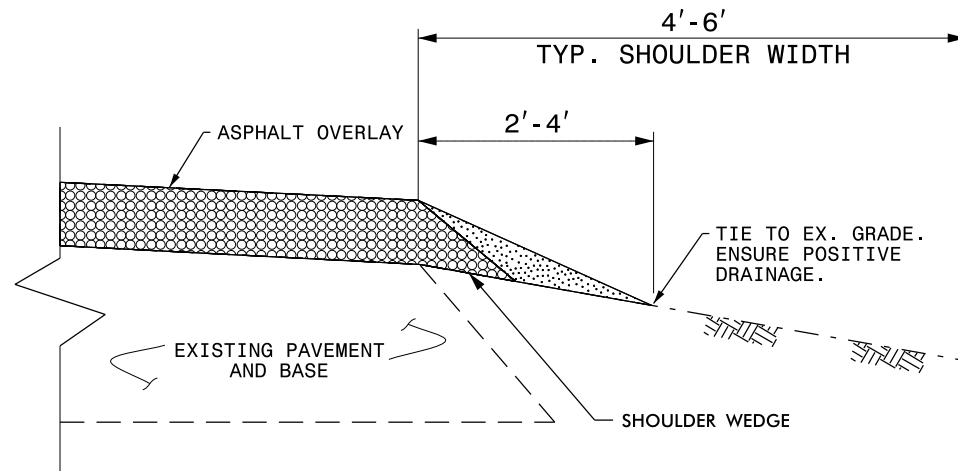
1. PLACE 2' SYMMETRICAL WIDENING. MAKE FLUSH WITH THE EXISTING ASHALT.
2. TRENCHING SHALL BE PERFORMED USING A MILLING MACHINE OR SIMILAR DEVICE.
3. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING.
4. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1



**DETAIL 1**  
MAIN LINE MILLING

**NOTE:**

1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



**SHOULDER RECONSTRUCTION DETAIL**

**NOTE:**

1. SHOULDERS SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM THE ROADWAY.
2. A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.

### PAVEMENT SCHEDULE

|    |  |
|----|--|
| C1 | PROP. APPROX. 1-3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S 9.5B, AT AN AVERAGE RATE OF 196 LBS PER SQ. YD.     |
| D1 | PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I 19.0B, AT AN AVERAGE RATE OF 285 LBS PER SQ. YD. |
| E1 | PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B 25.0B, AT AN AVERAGE RATE OF 570 LBS PER SQ. YD.           |
| T  | SHOULDER RECONSTRUCTION  |
| U  | EXISTING PAVEMENT  |
| V1 | INCIDENTAL MILLING   |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

10/26/98

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|                       |           |           |
|-----------------------|-----------|-----------|
| PROJECT NO.           | SHEET NO. | TOTAL NO. |
| 2016CPT.02.02.10741.1 | 4         |           |

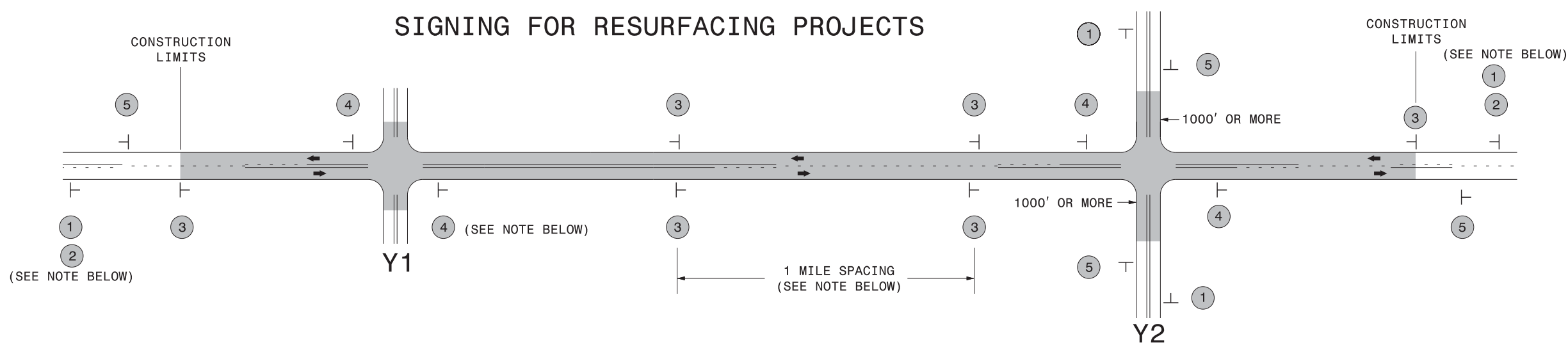
### SUMMARY OF QUANTITIES

| PROJECT NO                                      | COUNTY | MAP NO | ROUTE  | DESCRIPTION                          | TYP | LANES | LANE TYPE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH MI    | WIDTH FT | BORROW CY    | INCIDENTAL STONE BASE TONS | SHOULDER RECONSTRUCTION SMI | INCIDENTAL MILLING SY | BASE COURSE, B25.0B TONS | INTERMEDIATE COURSE, I19.0B TONS | SURFACE COURSE, S9.5B TONS | ASPHALT BINDER FOR PLANT MIX TONS | 6" DRIVEWAYS SY | ADJ. OF METER OR VALVE BOX EA | TEMPORARY SILT FENCE LF | COIR FIBER WATTLE LF | SEED & MULCHING AC | EROSION CONTROL RESPONSE EA |
|---|--------|--------|--------|--------------------------------------|-----|-------|-----------|--------------------------------|---------------------------|--------------|----------|--------------|----------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|----------------------------|-----------------------------------|-----------------|-------------------------------|-------------------------|----------------------|--------------------|-----------------------------|
| 2016CPT.02.02.10741.1                           | Pitt   | 1      | NC 222 | FROM OUTSIDE OF FOUNTAIN TO FALKLAND | 1   | 2     | 2WU       | NO                             | NO                        | 7.644        | 20       | 1,475        | 400                        | 15.29                       | 222                   | 6,096                    | 16,708                           | 11,785                     | 1,777                             | 100             | 2                             | 1,600                   | 800                  | 3.71               | 5.00                        |
| <b>TOTAL FOR MAP NO. 1</b>                      |        |        |        |                                      |     |       |           |                                |                           | <b>7.644</b> |          | <b>1,475</b> | <b>400</b>                 | <b>15.29</b>                | <b>222</b>            | <b>6,096</b>             | <b>16,708</b>                    | <b>11,785</b>              | <b>1,777</b>                      | <b>100</b>      | <b>2</b>                      | <b>1,600</b>            | <b>800</b>           | <b>3.71</b>        | <b>5.00</b>                 |
| <b>TOTAL FOR PROJ NO. 2016CPT.02.02.10741.1</b> |        |        |        |                                      |     |       |           |                                |                           | <b>7.644</b> |          | <b>1,475</b> | <b>400</b>                 | <b>15.29</b>                | <b>222</b>            | <b>6,096</b>             | <b>16,708</b>                    | <b>11,785</b>              | <b>1,777</b>                      | <b>100</b>      | <b>2</b>                      | <b>1,600</b>            | <b>800</b>           | <b>3.71</b>        | <b>5.00</b>                 |
| <b>GRAND TOTAL</b>                              |        |        |        |                                      |     |       |           |                                |                           | <b>7.644</b> |          | <b>1,475</b> | <b>400</b>                 | <b>15.29</b>                | <b>222</b>            | <b>6,096</b>             | <b>16,708</b>                    | <b>11,785</b>              | <b>1,777</b>                      | <b>100</b>      | <b>2</b>                      | <b>1,600</b>            | <b>800</b>           | <b>3.71</b>        | <b>5.00</b>                 |

### THERMOPLASTIC AND PAINT QUANTITIES

| PROJECT NO                                      | COUNTY | MAP NO | ROUTE  | DESCRIPTION                          | TYP | LANES | LANE TYPE | LENGTH | WIDTH | 4413000000-E                                 | 4457000000-N                 |
|---|--------|--------|--------|--------------------------------------|-----|-------|-----------|--------|-------|--|------------------------------|
|   |        |        |        |                                      |     |       |           |        |       | WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF | TEMPORARY TRAFFIC CONTROL LS |
| 2016CPT.02.02.10741.1                           | Pitt   | 1      | NC 222 | FROM OUTSIDE OF FOUNTAIN TO FALKLAND | 1   | 2     | 2WU       | 7.644  | 20    | 856  | 1                            |
| <b>TOTAL FOR MAP NO. 1</b>                      |        |        |        |                                      |     |       |           |        |       | <b>7.644</b>                                 | <b>1</b>                     |
| <b>TOTAL FOR PROJ NO. 2016CPT.02.02.10741.1</b> |        |        |        |                                      |     |       |           |        |       | <b>7.644</b>                                 | <b>1</b>                     |
| <b>GRAND TOTAL</b>                              |        |        |        |                                      |     |       |           |        |       | <b>7.644</b>                                 | <b>1</b>                     |

## SIGNING FOR RESURFACING PROJECTS



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

### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

| SIGNING NOTES AND<br>PLACEMENT PER DIRECTION |   |  |
|--|---|--|
| 1<br>2                                       | <br>W20-1<br>48" X 48"<br>W7-3aP<br>24" X 18" | <p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#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)</p>  |
| 3  | <br>SP 13107<br>48" X 48"                     | <p>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.</p>   |
| 4  | <br>SP 13106<br>48" X 48"                     | <p>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.</p> |
| 5  | <br>G20-2 A<br>48" X 24"                      | <p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>  |

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, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

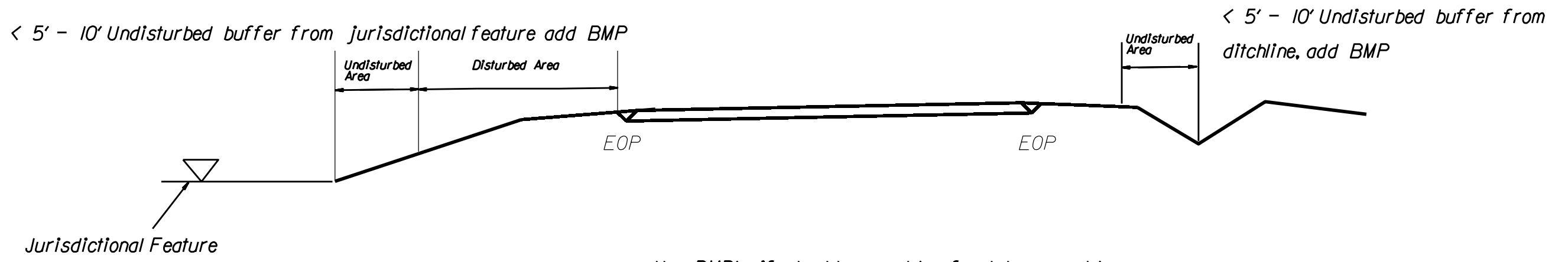
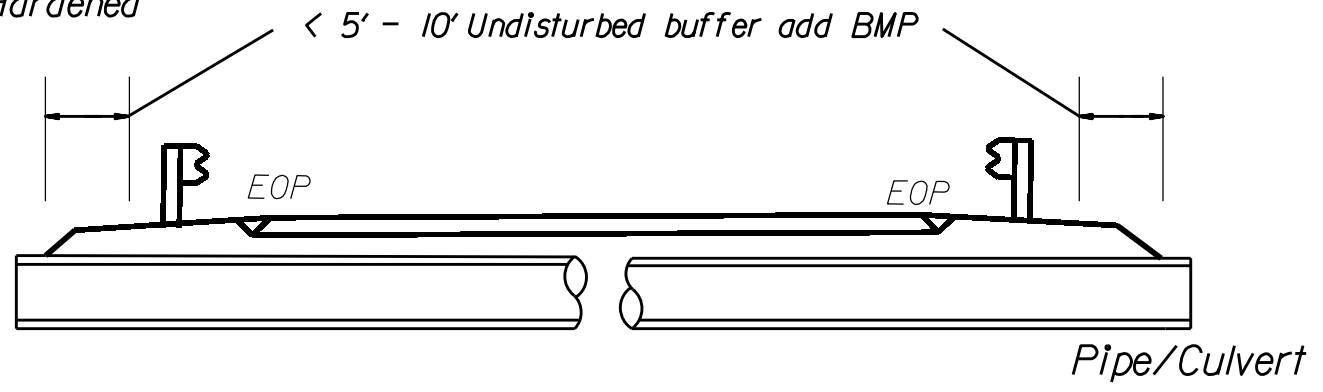
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**RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS**

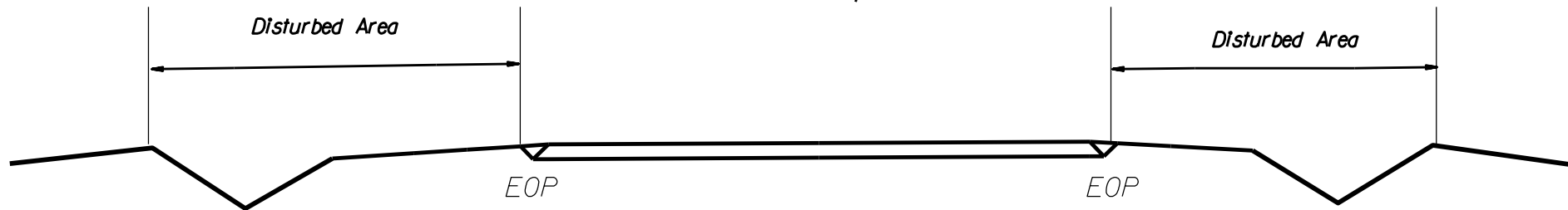
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

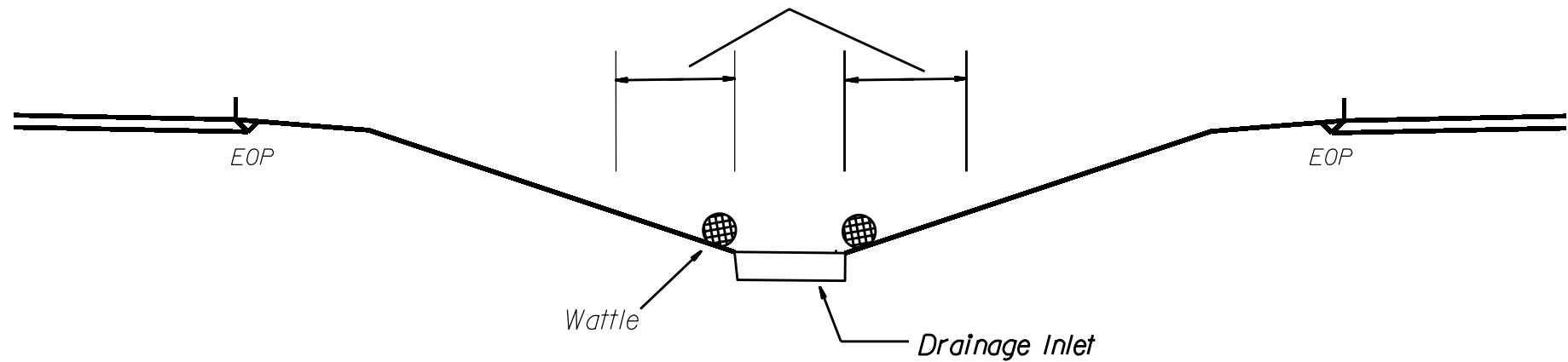
# EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

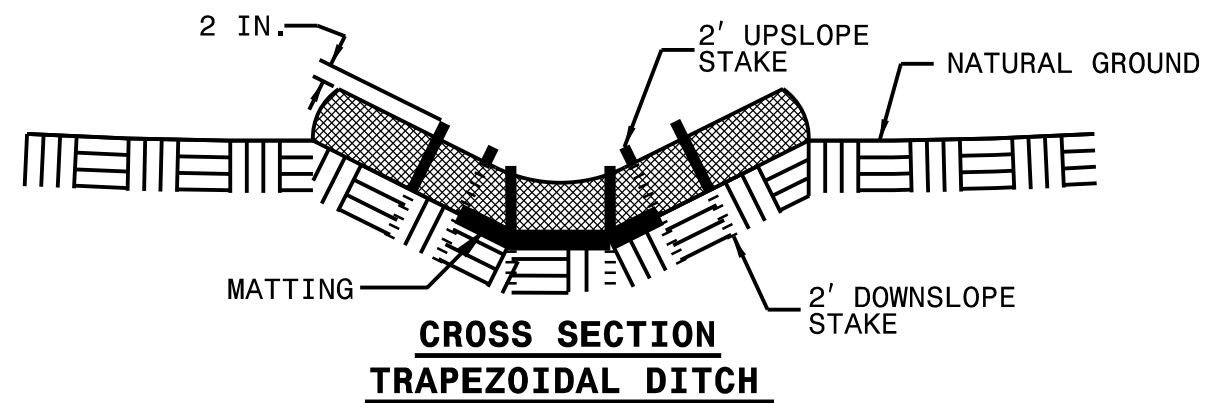
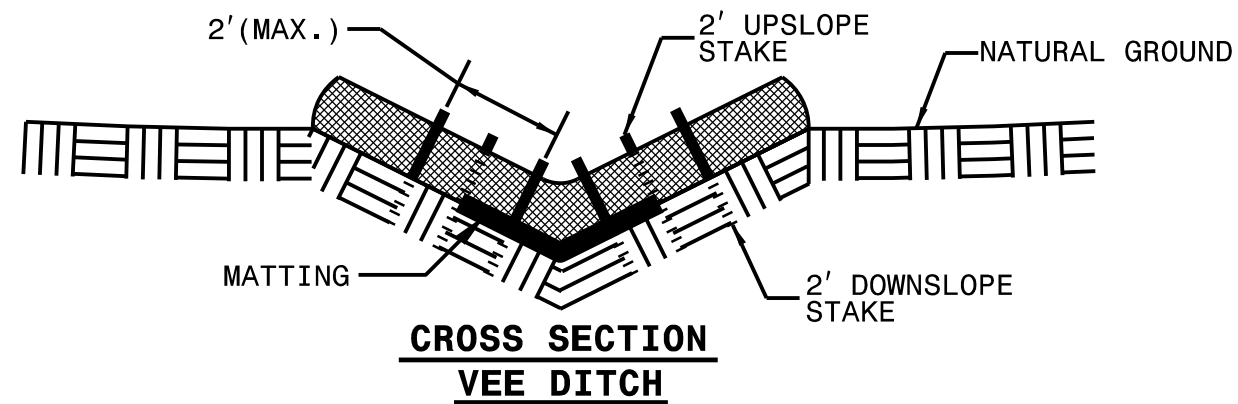
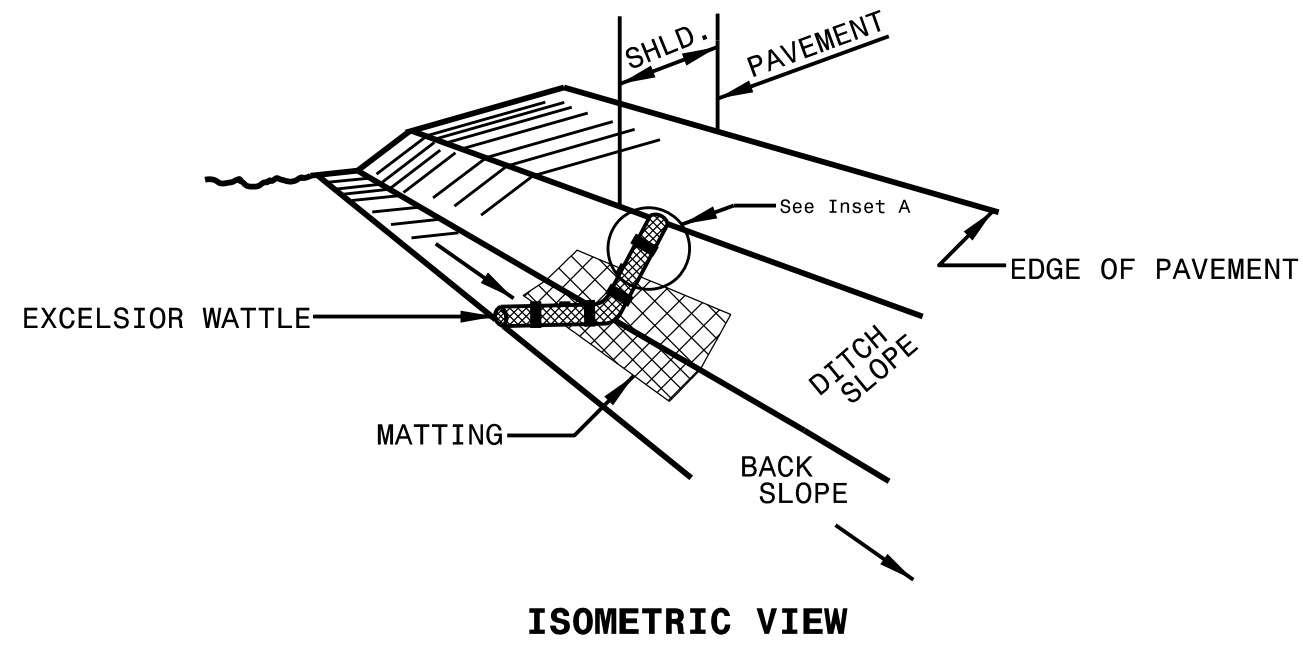


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

# WATTLE DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

