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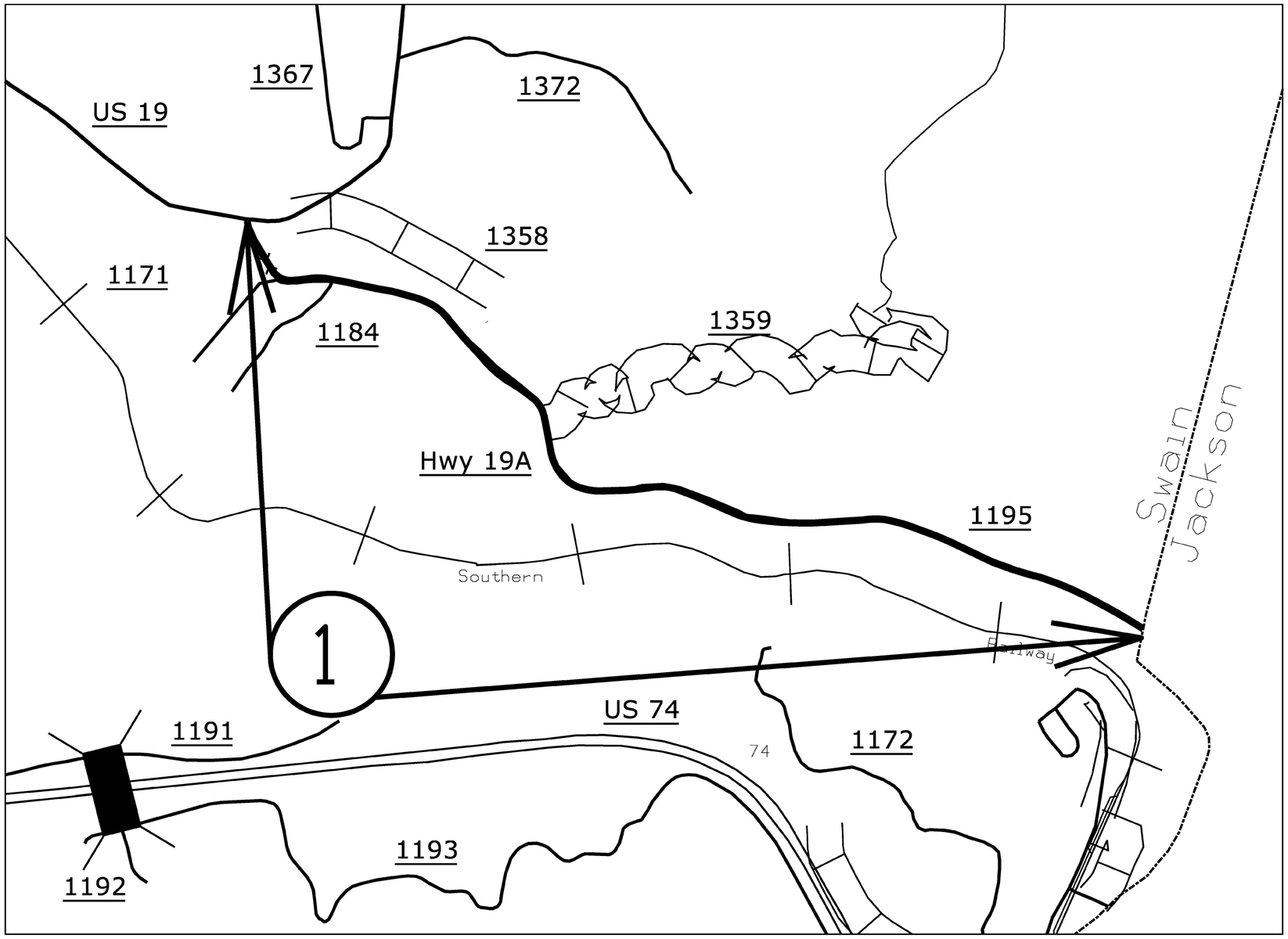
09/08/99

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | 2027CPT.14.04.10381 | 1 | 14 |

| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| 2027CPT.14.04.20871 | | |
| | | |
| | | |

# SWAIN COUNTY




N

## MAP 1

BEG

END

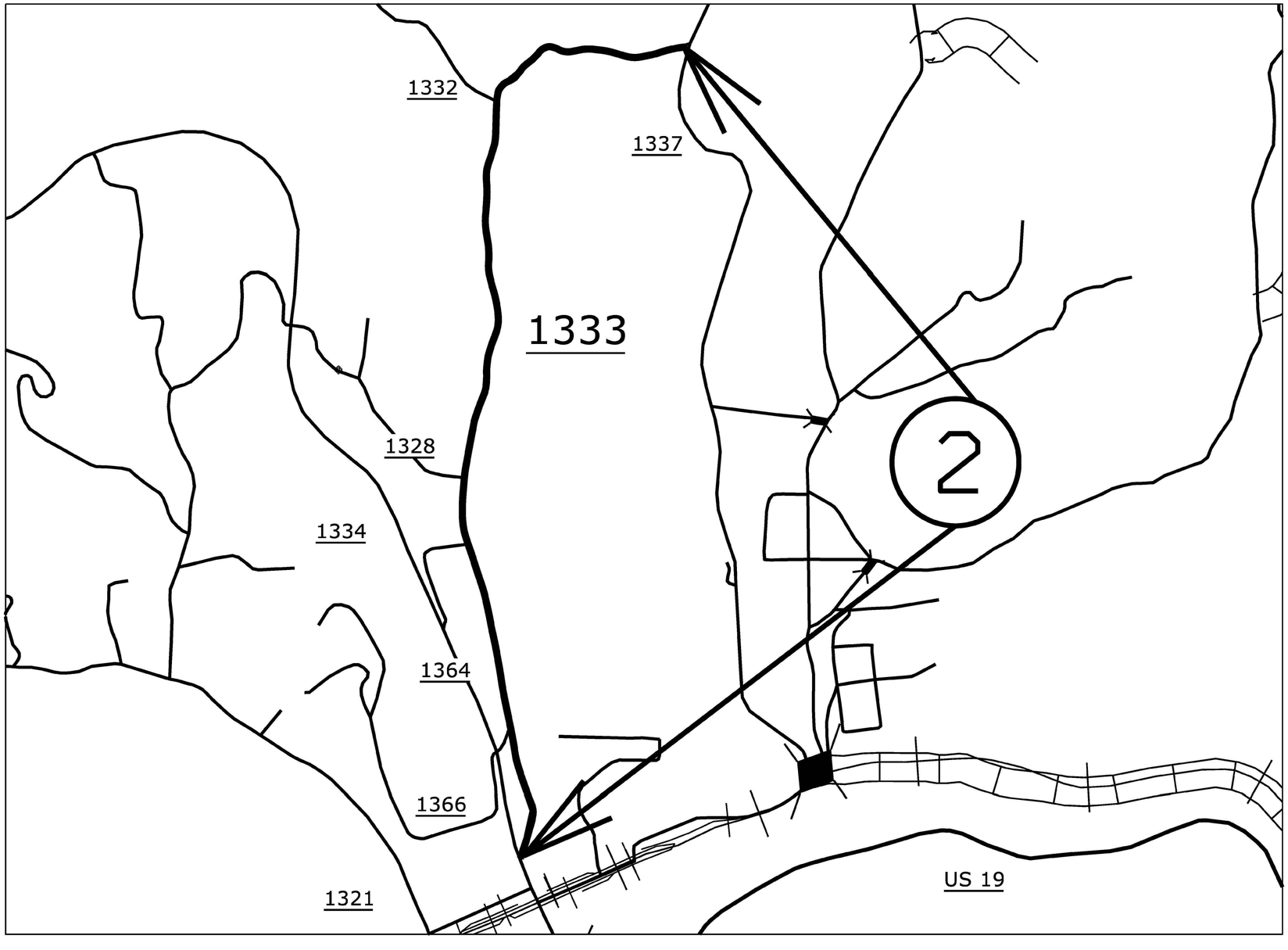
*CONTRACT: DN01169*

09/08/99

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | 2027CPT.14.04.10381 | 2 | 14 |

| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| 2027CPT.14.04.20871 | | |
| | | |
| | | |

# SWAIN COUNTY




## MAP 2

BEG END

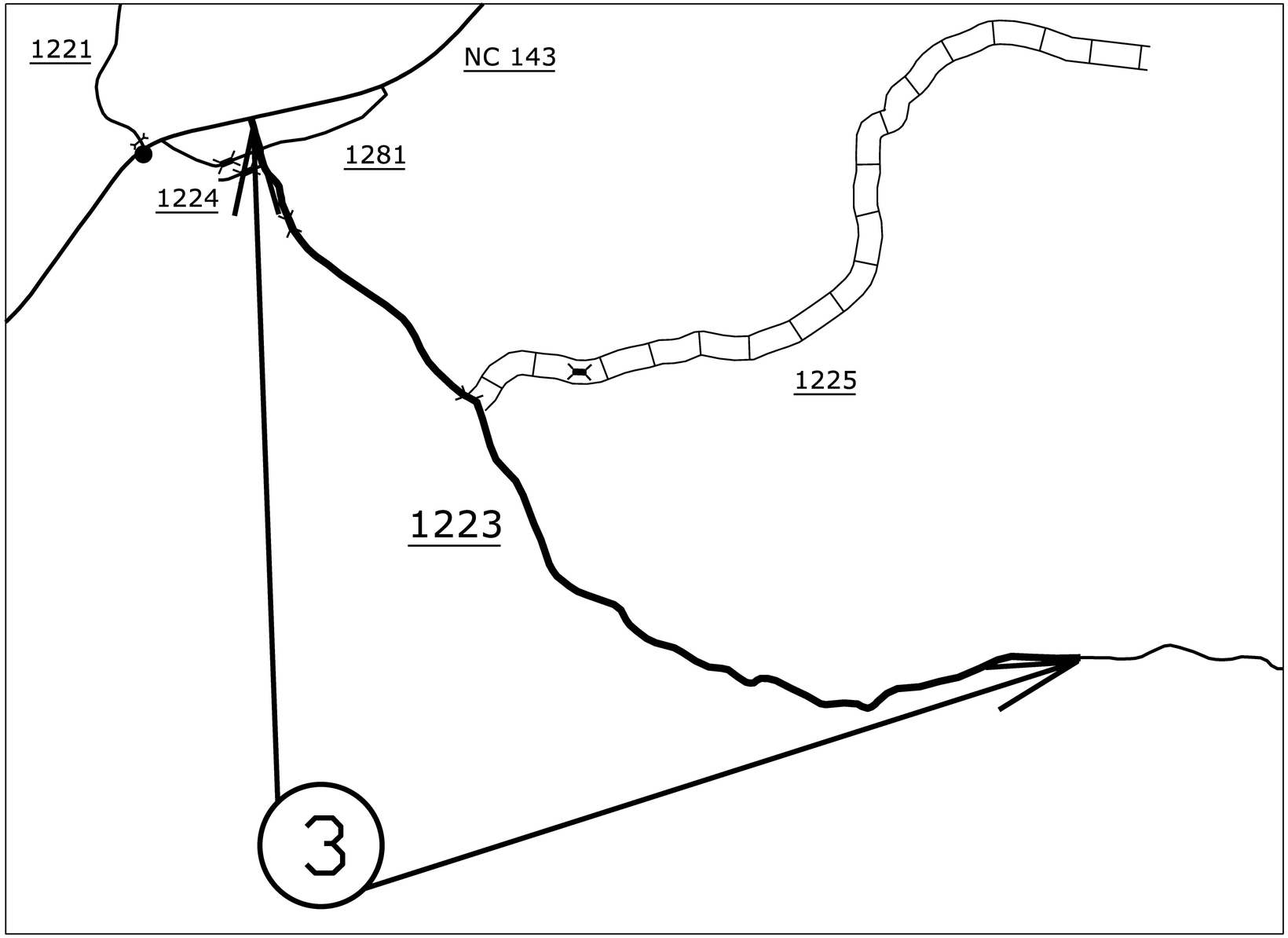
CONTRACT: DN01169

09/09/99

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | 2027CPT.14.04.10381 | 3 | 14 |

| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| 2027CPT.14.04.20381 | | |
| | | |
| | | |

# GRAHAM COUNTY




MAP 3

BEG

END

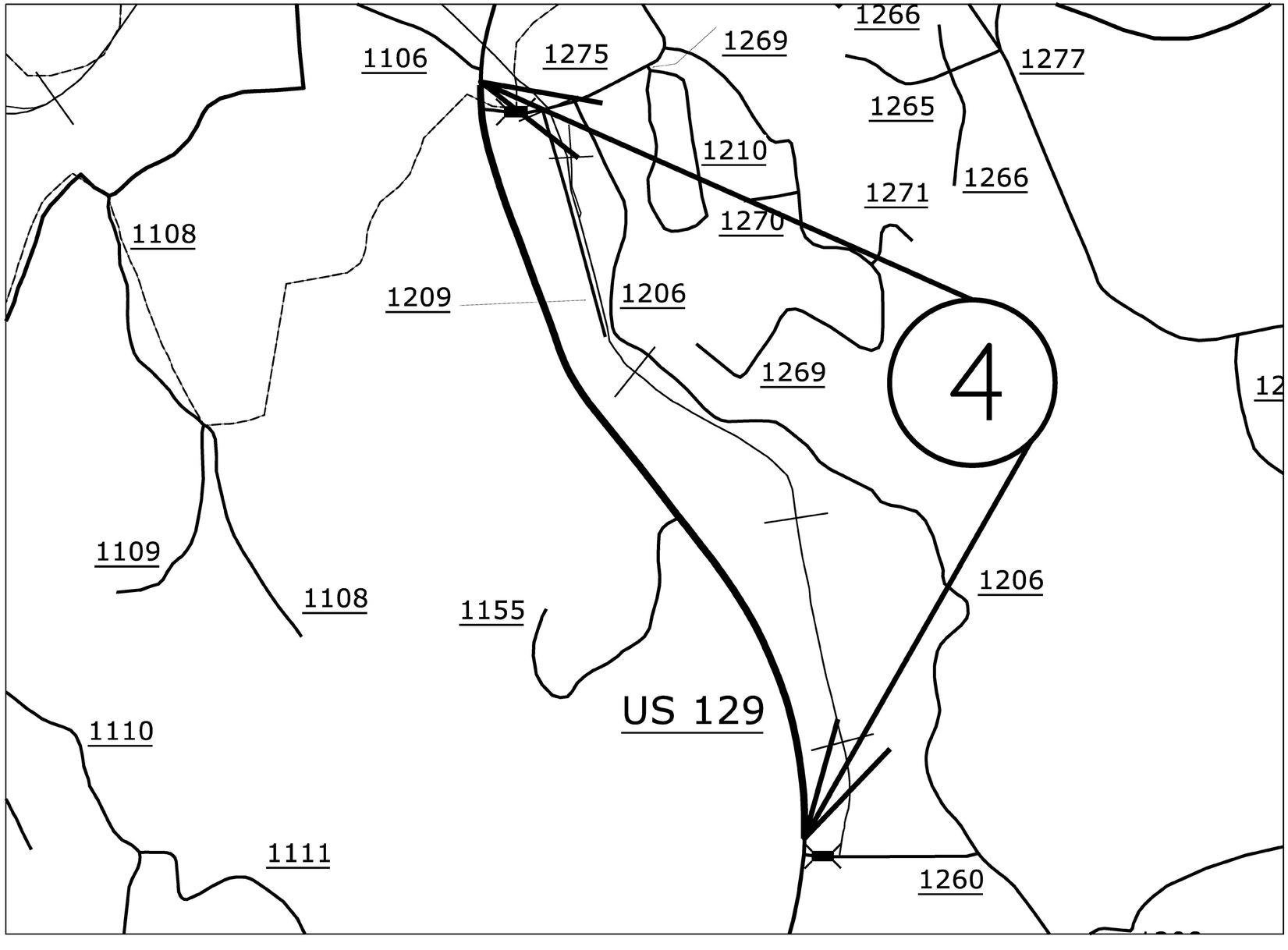
CONTRACT: DN01169

09/08/99

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | 2027CPT.14.04.10381 | 4 | 14 |

| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |

# GRAHAM COUNTY




## MAP 4

BEG END

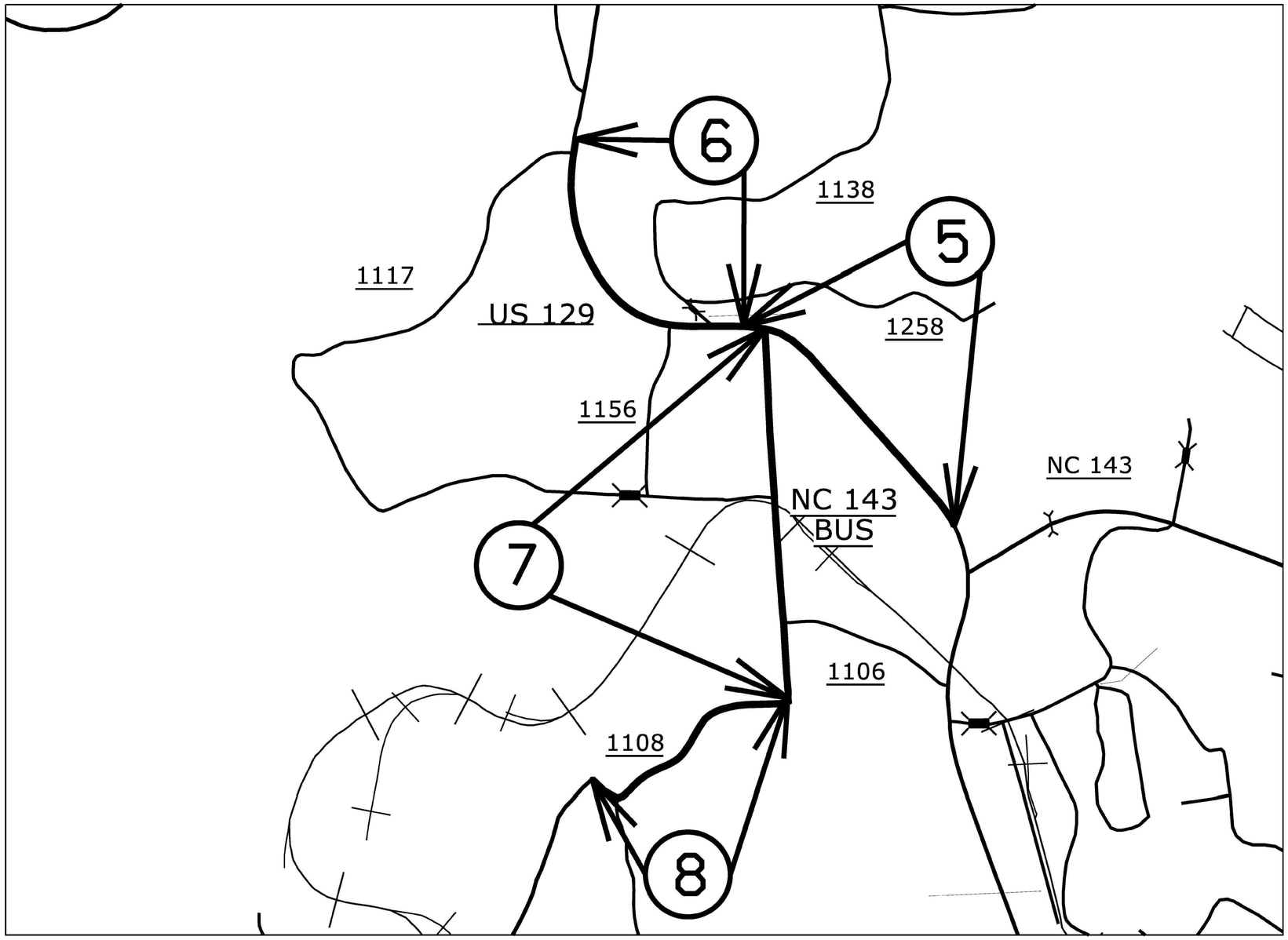
CONTRACT: DN01169

09/30/99

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | 2027CPT.14.04.10381 | 5 | 14 |

| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |

# GRAHAM COUNTY




MAP 5 MAP 6

BEG END BEG END

MAP 7 MAP 8

BEG END BEG END

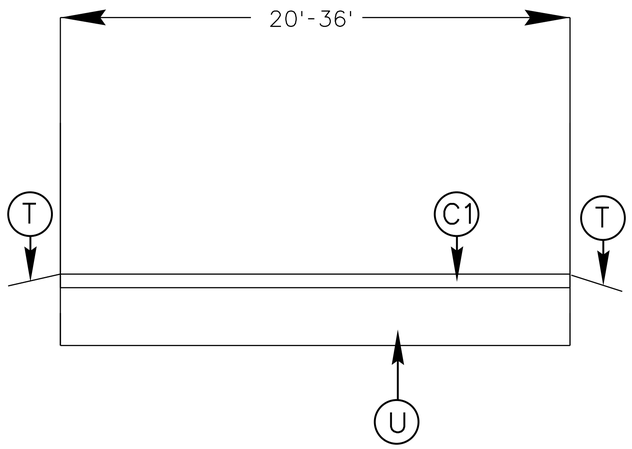
*CONTRACT: DN01169*

09/08/99

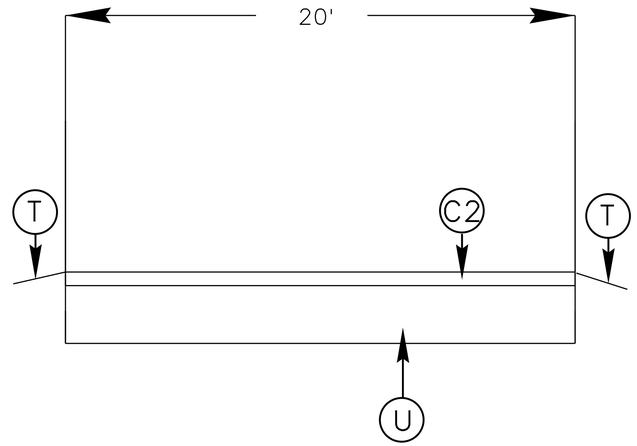
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | 2027CPT.14.04.10381 | 6 | 14 |

| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| 2027CPT.14.04.20381 | | |
| 2027CPT.14.04.20871 | | |
| | | |

# TYPICAL 1



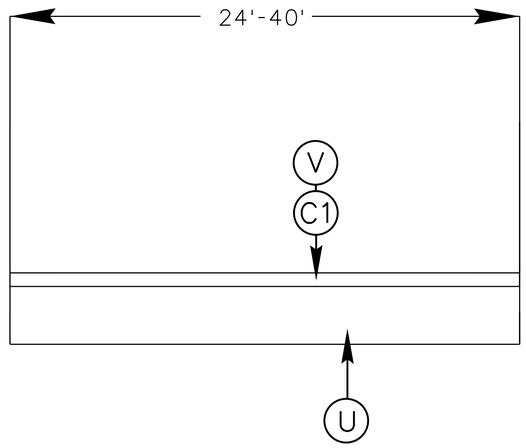

# TYPICAL 2




## SURFACING SCHEDULE

| | |
|---|---|
| C1 | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168LBS. PER SQ. YD. |
| C2 | PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 138LBS. PER SQ. YD. |
| T | SHOULDER RECONSTRUCTION WITH ASB. 2' WIDE UNLESS DIRECTED BY PROJECT ENGINEER -SEE PROJECT SPECIAL PROVISIONS- |
| U | EXISTING PAVEMENT |
| V | MILLED ASPHALT PAVEMENT 1 1/2" IN DEPTH IN LOCATIONS AS DIRECTED BY PROJECT ENGINEER |

# TYPICAL 3




CONTRACT: DN01169

09/08/66

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | 2027CPT.14.04.10381 | 7 | 14 |

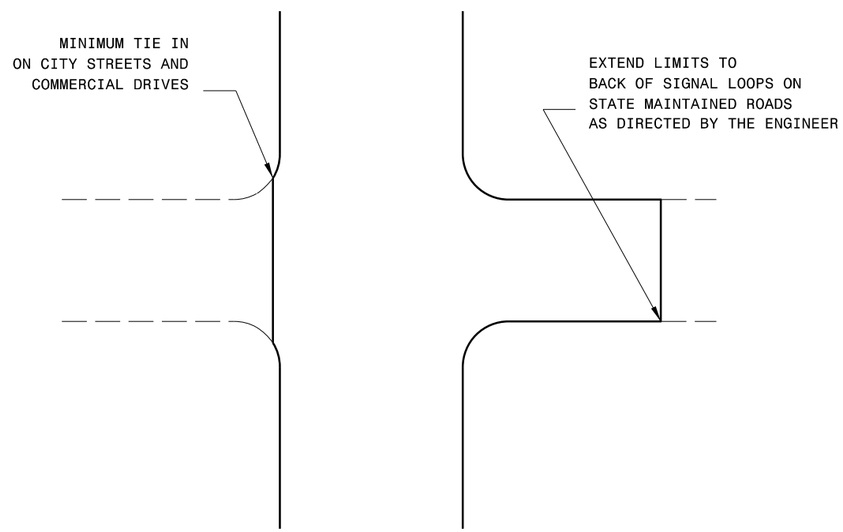
| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| 2027CPT.14.04.20381 | | |
| 2027CPT.14.04.20871 | | |
| | | |

**Bridge Structure Table**

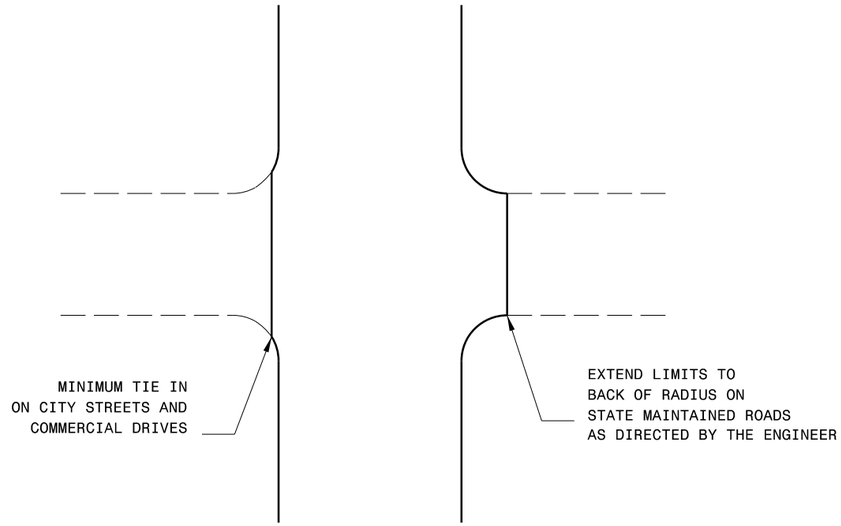
| Map # | Route No. | Road Name | County | Structure No. | Posted SV (Tons) | Posted TTST (Tons) | Paving Across Bridge |
|---|---|---|---|---|---|---|---|
| 1 | SR-1195 | Highway 19A | Swain | 860161 | 99 | 99 | No |
| 3 | SR-1223 | Beech Creek Rd | Graham | 370028 | 99 | 99 | Yes |
| 3 | SR-1223 | Beech Creek Rd | Graham | 370049 | 99 | 99 | Yes |

*CONTRACT: DN01169*

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| 2027CPT.14.04.10381 | 8 |




TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES

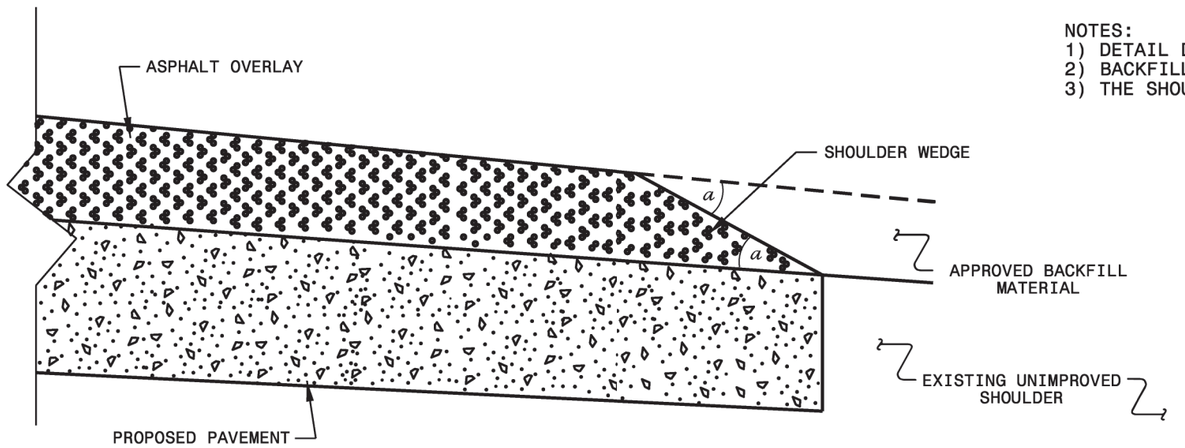



TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

| ADDITIONAL INTERSECTIONS (NON-TYPICAL) | | |
|---|---|---|
| Extend paving limits to back of radius or loop on the following intersections: | | |
| MAP# | STREET NAME | COMMENTS |
| 4 | Woodland Hights | 52ft from Intersection |
| 4 | Airport Rd | 55ft from Intersection |
| 5 | North Main Street | 58ft from Intersection |
| 5 | Black Knight Way | 65ft from Intersection |
| 5 | Laura Street | 50ft from Intersection |
| 6 | Old Hwy 129 | 62ft from Intersection |
| 6 | Knight St | 64ft from Intersection |
| 6 | Moose Branch Rd | 50ft from Intersection |
| 8 | Circle Street | 40ft from Intersection |
| 8 | South Main St | 65ft from Intersection |
| 8 | Morphew | 40ft from Intersection |
| 8 | Eller Branch Rd | 100ft from Intersection |
| | | |
| | | |
| | | |
| | | |

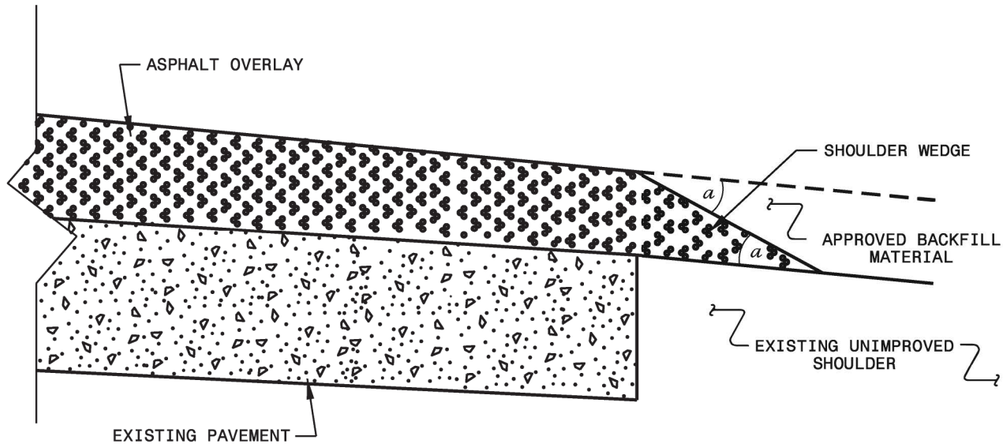
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| 2027CPT.14.04.10381 | 9 |

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 AND SIDE STREETS.



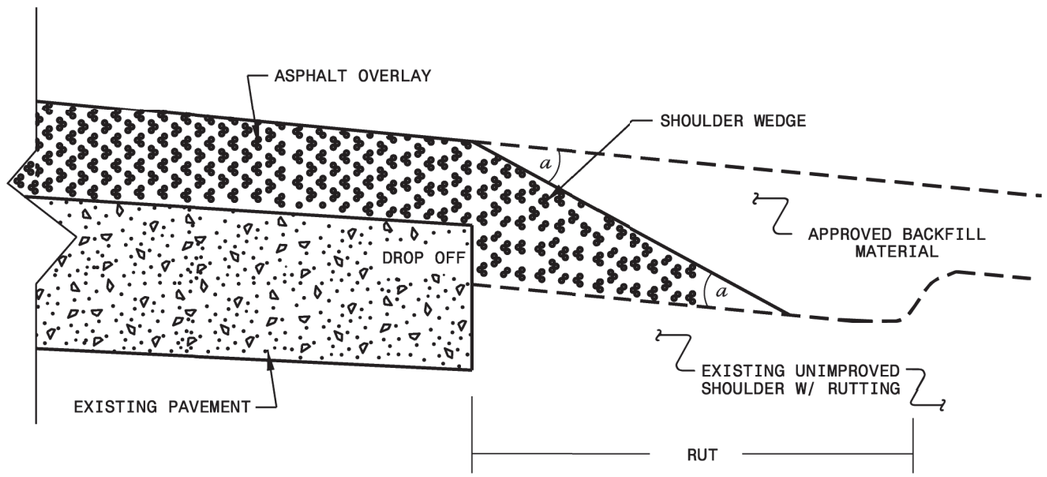

## SHOULDER WEDGE DETAIL

**(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/det_ails/stand/shoulderwed_edetail.dgn | | |

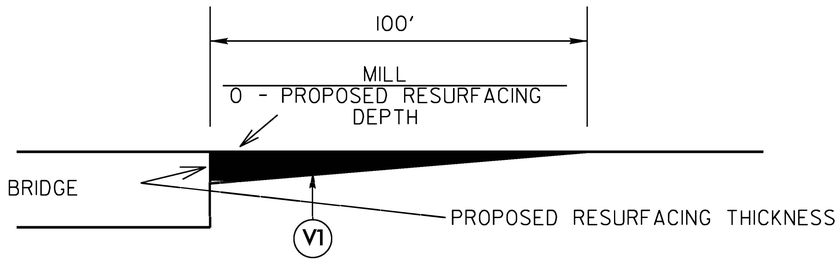
CONTRACT: DN01169

$$$$SYSTIME$$$$
$$$$DGN$$$$
$$$$USERNAME$$$$

09/08/99

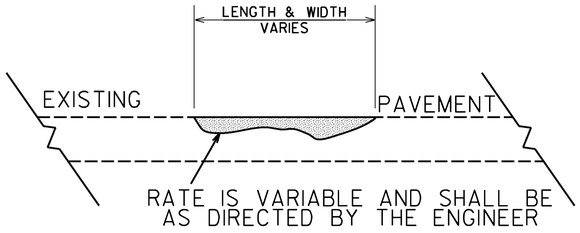
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | 2027CPT.14.04.10381 | 10 | 14 |

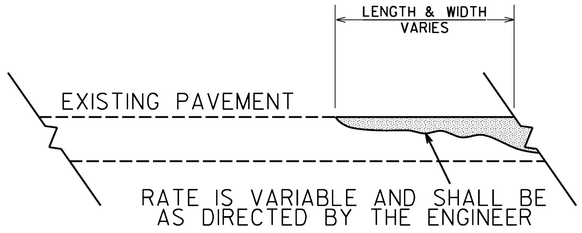
| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| 2027CPT.14.04.20381 | | |
| 2027CPT.14.04.20871 | | |
| | | |




## *MILLING DETAIL AT BRIDGE APPROACHES*

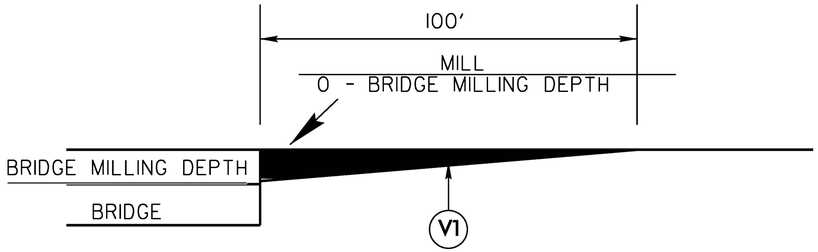
***WHERE BRIDGES WILL NOT BE RESURFACED. THIS WILL BE PAID FOR AS INCIDENTAL MILLING.***



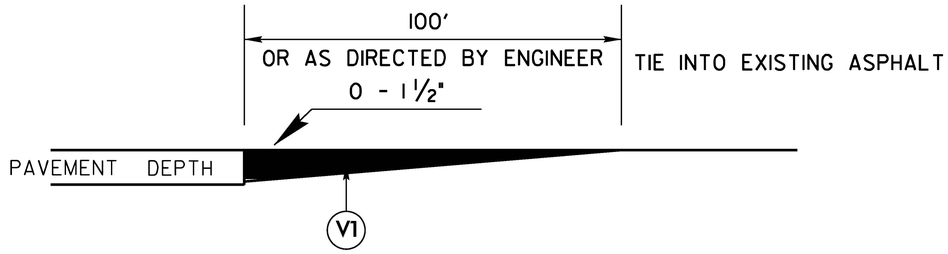

## *DETAIL SHOWING METHOD OF WEDGING*

****PROPOSED WEDGE COURSE* ( 114 LBS PER SQ YARD PER 1" DEPTH)***




## *MILLING DETAIL AT BRIDGE APPROACHES*

***WHERE BRIDGES WILL BE MILLED THEN RESURFACED. THIS WILL BE PAID FOR AS INCIDENTAL MILLING.***



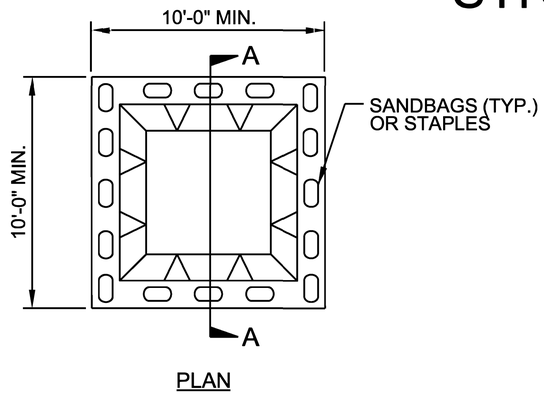

## *DETAIL TO TIE INTO EXIST PAVEMENT*

***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. THIS WILL BE PAID FOR AS 1 1/2" MILLING.***

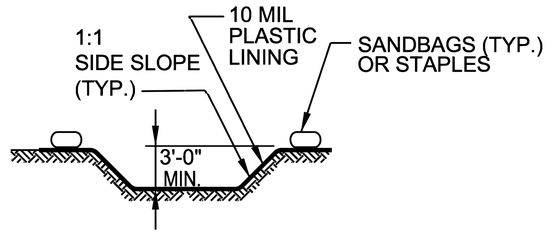
CONTRACT: DN01169

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| 2027CPT.14.04.10381 | 11 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

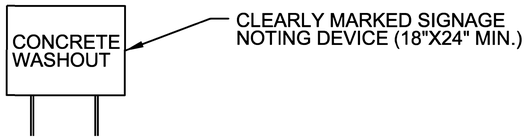
# ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER




PLAN




SECTION A-A



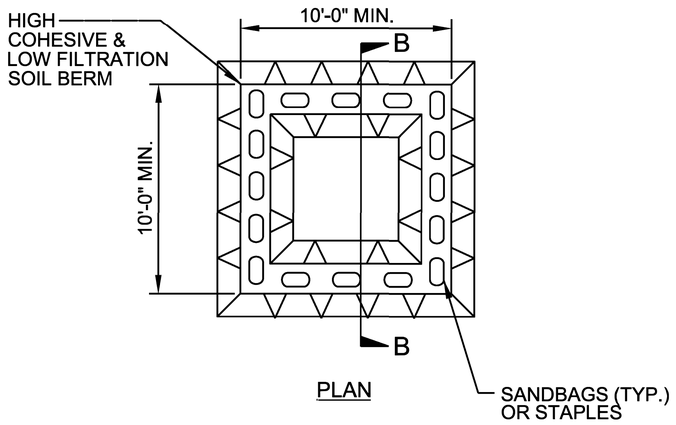

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

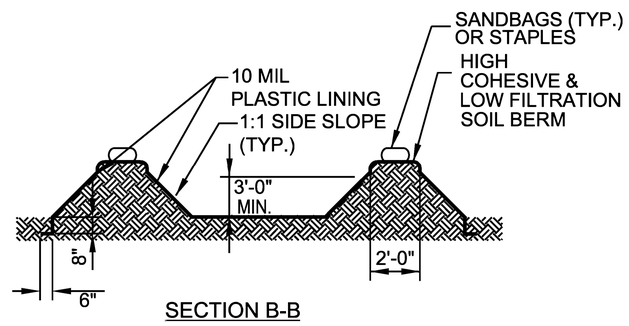
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

## BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE




PLAN




SECTION B-B

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

## ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

| PROJECT NO. | SHEET NO. | TOTAL NO. |
|---|---|---|
| 2027CPT.14.04.20871, 2027CPT.14.04.20381 | 12 | 14 |
| 2027CPT.14.04.10381, | | |

# SUMMARY OF QUANTITIES

| | | | | | | | | | | | | | 1245000000-E | 1260000000-E | 1297000000-E | 1330000000-E | 1519000000-E | 1523000000-E | 1575000000-E | 1704000000-E | 2549000000-E | 2612500000-N | 2815000000-N | 2830000000-N | 2845000000-N | 6000000000-E | 6029000000-E | 6117500000-N | 7444000000-E | 7456100000-E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | LENGTH | WIDTH | BEGIN MP | END MP | | SHOULDER RECONSTRUCTION | AGGREGATE SHOULDER BORROW | 1½" MILLING | INCIDENTAL MILLING | SURFACE COURSE, S9.5B | SURFACE COURSE, S9.5C | ASPHALT BINDER FOR PLANT MIX | PATCHING EXISTING PAVEMENT | 2'-6" CURB & GUTTER | REMOVE AND REPLACE CONCRETE CURB RAMPS | ADJ. OF DROP INLET | ADJ. OF MANHOLES | ADJ. OF METER OR VALVE BOX | TEMPORARY SILT FENCE | SAFETY FENCE | CONCRETE WASHOUT STRUCTURE | INDUCTIVE LOOP SAWCUT | LEAD-IN CABLE (14-2) |
| | | | | | | | | MI | FT | | | | SMI | TON | SY | SY | TONS | TONS | TONS | TONS | LF | EA | EA | EA | EA | LF | LF | EA | LF | LF |
| 2027CPT.14.04.20871 | Swain | 1 | SR-1195 / HWY 19A | FROM US 19 TO JCL | 1 | 2 | 2WU | 1.420 | 20 | 0.000 | 1.420 | | 2.84 | 426 | | | | 1,591 | 108 | 292 | | | | | | | | | | | |
| **TOTAL FOR MAP NO. 1** | | | | | | | | **1.420** | | | | | **2.84** | **426** | | | | **1,591** | **108** | **292** | | | | | | | | | | | |
| 2027CPT.14.04.20871 | Swain | 2 | SR-1333 / TOOT HOLLOW RD/WATER ST | FROM SR 1364 TO SR 1337 | 1 | 2 | 2WU | 1.670 | 20 | 0.000 | 1.670 | | 3.34 | 501 | | | | 1,736 | 126 | 500 | | | | 2 | 3 | | | | | | |
| **TOTAL FOR MAP NO. 2** | | | | | | | | **1.670** | | | | | **3.34** | **501** | | | | **1,736** | **126** | **500** | | | | **2** | **3** | | | | | | |
| **TOTAL FOR PROJ NO. 2027CPT.14.04.20871** | | | | | | | | **3.090** | | | | | **6.18** | **927** | | | | **3,327** | **234** | **792** | | | | **2** | **3** | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2027CPT.14.04.20381 | Graham | 3 | SR-1223 / BEECH CREEK RD | FROM NC 143 TO EOM | 2 | 2 | | 2.310 | 20 | 0.000 | 2.310 | | 4.62 | 693 | | | 1,964 | | 137 | 192 | | | | | | | | | | |
| **TOTAL FOR MAP NO. 3** | | | | | | | | **2.310** | | | | | **4.62** | **693** | | | **1,964** | | **137** | **192** | | | | | | | | | | |
| **TOTAL FOR PROJ NO. 2027CPT.14.04.20381** | | | | | | | | **2.310** | | | | | **4.62** | **693** | | | **1,964** | | **137** | **192** | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2027CPT.14.04.10381 | Graham | 4 | US-129 | FROM AIRPORT RD TO FIVE POINT RD | 1 | 2 | 2WD | 1.070 | 36 | 10.210 | 11.280 | | 2.08 | 321 | | 420 | | 2,044 | 131 | 221 | | | | | | | | | | | |
| **TOTAL FOR MAP NO. 4** | | | | | | | | **1.070** | | | | | **2.08** | **321** | | **420** | | **2,044** | **131** | **221** | | | | | | | | | | | |
| 2027CPT.14.04.10381 | Graham | 5 | US-129 | FROM JORDAN ST TO NC 143B | 3 | 2 | 2WD | 0.430 | 33 | 11.540 | 11.970 | | | | 8,740 | 1,546 | | 858 | 51 | 12 | 60 | 1 | 2 | | 22 | 50 | 50 | 1 | 678.00 | 100.00 | |
| **TOTAL FOR MAP NO. 5** | | | | | | | | **0.430** | | | | | | | **8,740** | **1,546** | | **858** | **51** | **12** | **60** | **1** | **2** | | **22** | **50** | **50** | **1** | **678.00** | **100.00** | |
| 2027CPT.14.04.10381 | Graham | 6 | US-129 | FROM NC 143B TO MOOSE BRANCH RD | 3 | 2 | 2WU | 0.450 | 24 | 11.970 | 12.420 | | | | 6,653 | 1,316 | | 664 | 39 | | | | | | | | | | | | |
| **TOTAL FOR MAP NO. 6** | | | | | | | | **0.450** | | | | | | | **6,653** | **1,316** | | **664** | **39** | | | | | | | | | | | |
| 2027CPT.14.04.10381 | Graham | 7 | NC-143 BUS | FROM US 129 TO JUNLUSKA RD | 3 | 2 | 2WU | 0.540 | 40 | 3.430 | 2.890 | | | | 13,305 | | | 1,158 | 69 | 19 | | | | 16 | 20 | | | | | | |
| **TOTAL FOR MAP NO. 7** | | | | | | | | **0.540** | | | | | | | **13,305** | | | **1,158** | **69** | **19** | | | | **16** | **20** | | | | | | |
| 2027CPT.14.04.10381 | Graham | 8 | NC-143 BUS | FROM JUNLUSKA RD TO SNOWBIRD | 1 | 2 | 2WU | 0.340 | 27 | 2.890 | 2.550 | | 0.64 | 102 | | | | 558 | 34 | 24 | | | 2 | | | | | | | | |
| **TOTAL FOR MAP NO. 8** | | | | | | | | **0.340** | | | | | **0.64** | **102** | | | | **558** | **34** | **24** | | | **2** | | | | | | | | |
| **TOTAL FOR PROJ NO. 2027CPT.14.04.10381** | | | | | | | | **2.830** | | | | | **2.72** | **423** | **28,698** | **3,282** | | **5,282** | **324** | **276** | **60** | **1** | **4** | **16** | **42** | **50** | **50** | **1** | **678.00** | **100.00** | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GRAND TOTAL** | | | | | | | | **8.230** | | | | | **13.52** | **2,043** | **28,698** | **3,282** | **1,964** | **8,609** | **695** | **1,260** | **60** | **1** | **4** | **18** | **45** | **50** | **50** | **1** | **678.00** | **100.00** | |

| PROJECT NO. | SHEET NO. | TOTAL NO. |
|---|---|---|
| 2027CPT.14.04.20871, 2027CPT.14.04.20381 | 13 | 14 |
| 2027CPT.14.04.10381, | | |

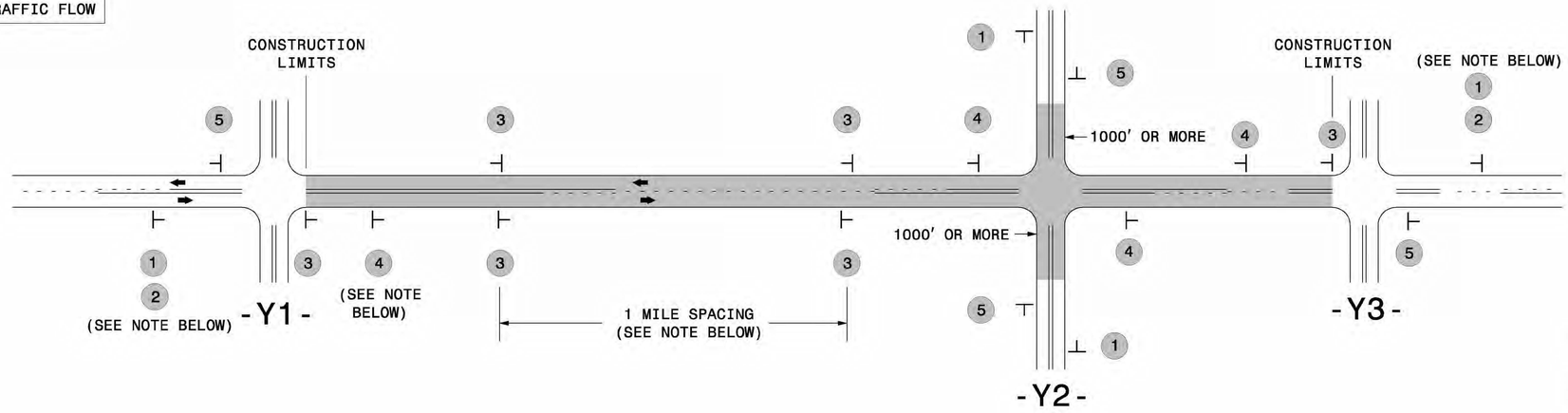
# THERMOPLASTIC AND PAINT QUANTITIES

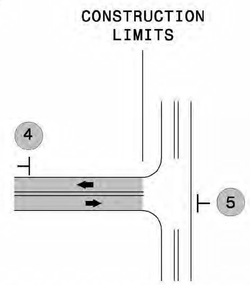
| | | | | | | | | | | | | 4413000000-E | 4457000000-N | 4688000000-E | | 4700000000-E | 4709000000-E | 4720000000-E | 4725000000-E | | | 4890000000-E | | | 4893000000-E | 4895000000-N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PROJECT 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 (6", 90 MILS)(WHITE) | THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)(YELLOW) | THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)(WHITE) | THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)(WHITE) | THERMO MSG SCHOOL 90 M | THERMO STR ARROW 90 MILS | THERMO RT ARROW 90 MILS | THERMO LT ARROW 90 MILS | WHITE HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 60 MILS) | YELLOW HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 60 MILS) | WHITE HOT SPRAY THERMO (24", 60 MILS) | DECORATIVE CROSSWALK | GENERIC PAVEMENT MARKING ITEM - POLYCARBONATE H-SHAPED MARKERS |
| | | | | | | | | MI | FT | | | SF | LS | LF | LF | LF | LF | EA | EA | EA | EA | LF | LF | LF | SF | EA |
| 2027CPT.14.04.20871 | Swain | 1 | SR-1195 / HWY 19A | FROM US 19 TO JCL | 1 | 2 | 2WU | 1.42 | 20 | 0 | 1.42 | | 0.16 | | | | | | | | | 14,221 | 14,290 | 34 | | 100.00 |
| **TOTAL FOR MAP NO. 1** | | | | | | | | **1.42** | | | | | **0.16** | | | | | | | | | **14,221** | **14,290** | **34** | | **100.00** |
| 2027CPT.14.04.20871 | Swain | 2 | SR-1333 / TOOT HOLLOW RD/WATER ST | FROM SR 1364 TO SR 1337 | 1 | 2 | 2WU | 1.67 | 20 | 0 | 1.67 | 188 | 0.18 | | | | | | | | | 17,850 | 17,550 | 50 | | |
| **TOTAL FOR MAP NO. 2** | | | | | | | | **1.67** | | | | **188** | **0.18** | | | | | | | | | **17,850** | **17,550** | **50** | | |
| **TOTAL FOR PROJ NO. 2027CPT.14.04.20871** | | | | | | | | **3.09** | | | | **188** | **0.34** | | | | | | | | | **32,071** | **31,840** | **84** | | **100.00** |
| | | | | | | | | | | | | | | | | | | | | | | | **63,995** | | | |
| 2027CPT.14.04.20381 | Graham | 3 | SR-1223 / BEECH CREEK RD | FROM NC 143 TO EOM | 2 | 2 | | 2.31 | 20 | 0 | 2.31 | 259 | 0.20 | | | | | | | | | 24,394 | 24,394 | 23 | | |
| **TOTAL FOR MAP NO. 3** | | | | | | | | **2.31** | | | | **259** | **0.20** | | | | | | | | | **24,394** | **24,394** | **23** | | |
| **TOTAL FOR PROJ NO. 2027CPT.14.04.20381** | | | | | | | | **2.31** | | | | **259** | **0.20** | | | | | | | | | **24,394** | **24,394** | **23** | | |
| | | | | | | | | | | | | | | | | | | | | | | | **48,811** | | | |
| 2027CPT.14.04.10381 | Graham | 4 | US-129 | FROM AIRPORT RD TO FIVE POINT RD | 1 | 2 | 2WD | 1.07 | 36 | 10.21 | 11.28 | 233 | 0.19 | 10,984 | 10,984 | | | | | | | | | | | 140.00 |
| **TOTAL FOR MAP NO. 4** | | | | | | | | **1.07** | | | | **233** | **0.19** | **10,984** | **10,984** | | | | | | | | | | | **140.00** |
| 2027CPT.14.04.10381 | Graham | 5 | US-129 | FROM JORDAN ST TO NC 143B | 3 | 2 | 2WD | 0.43 | 33 | 11.54 | 11.97 | 49 | 0.07 | | 4,500 | 90 | 750 | | 3 | 7 | 8 | | | | | 50.00 |
| **TOTAL FOR MAP NO. 5** | | | | | | | | **0.43** | | | | **49** | **0.07** | | **4,500** | **90** | **750** | | **3** | **7** | **8** | | | | | **50.00** |
| 2027CPT.14.04.10381 | Graham | 6 | US-129 | FROM NC 143B TO MOOSE BRANCH RD | 3 | 2 | 2WU | 0.45 | 24 | 11.97 | 12.42 | 51 | 0.06 | 2,370 | 4,740 | | | | | | | | | | | 35.00 |
| **TOTAL FOR MAP NO. 6** | | | | | | | | **0.45** | | | | **51** | **0.06** | **2,370** | **4,740** | | | | | | | | | | | **35.00** |
| 2027CPT.14.04.10381 | Graham | 7 | NC-143 BUS | FROM US 129 TO JUNLUSKA RD | 3 | 2 | 2WU | 0.54 | 40 | 3.43 | 2.89 | 126 | 0.10 | 5,700 | 5,700 | 240 | 190 | 12 | | | | | | | 304 | 30.00 |
| **TOTAL FOR MAP NO. 7** | | | | | | | | **0.54** | | | | **126** | **0.10** | **5,700** | **5,700** | **240** | **190** | **12** | | | | | | | **304** | **30.00** |
| 2027CPT.14.04.10381 | Graham | 8 | NC-143 BUS | FROM JUNLUSKA RD TO SNOWBIRD | 1 | 2 | 2WU | 0.34 | 27 | 2.89 | 2.55 | 34 | 0.05 | 3,600 | 3,600 | | | | | | | | | | | 60.00 |
| **TOTAL FOR MAP NO. 8** | | | | | | | | **0.34** | | | | **34** | **0.049** | **3,600** | **3,600** | | | | | | | | | | | **60.00** |
| **TOTAL FOR PROJ NO. 2027CPT.14.04.10381** | | | | | | | | **2.83** | | | | **493** | **0.466** | **22,654** | **29,524** | **330** | **940** | **12** | **3.00** | **7** | **8** | | | | **304.00** | **315.00** |
| | | | | | | | | | | | | | | **52,178** | | | | | | **18.00** | | | | | | |
| **GRAND TOTAL** | | | | | | | | **8.23** | | | | **940** | **1.000** | **22,654** | **29,524** | **330** | **940** | **12** | **3.00** | **7** | **8** | **56,465** | **56,234** | **107.00** | **304.00** | **415.00** |
| | | | | | | | | | | | | | | **52,178** | | | | | | **18** | | | **112,806** | | | |

| PROJ. REFERENCE NO. | SHEET NO. |
|---|---|
| 2027CPT.14.04.10381 | 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 | LOWSOFT SHOULDER SP 13107 48" X 48" | - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.<br>- 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.<br>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.<br>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.<br>- 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.<br>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.<br>- 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.

PLACED 500' IN ADVANCE OF FLAGGER.

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
S:\TMD\WZTC\Resurfacing\2LCW & ASI Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:keddis