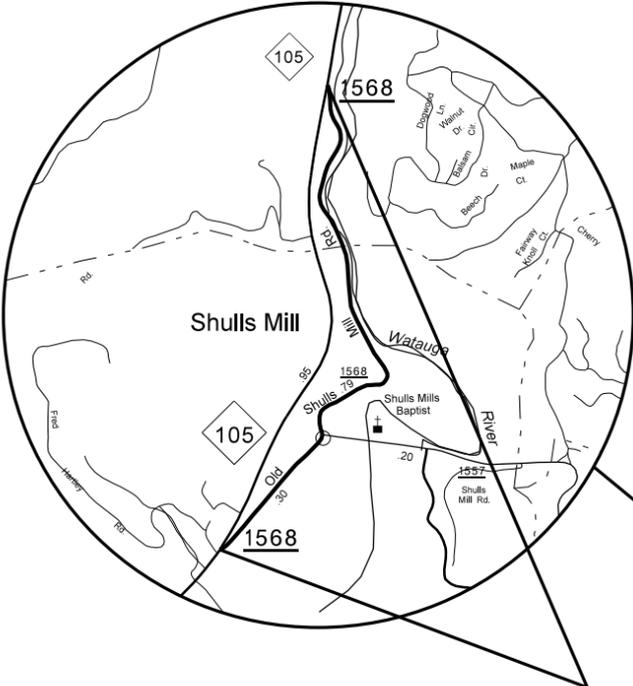


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WATAUGA COUNTY

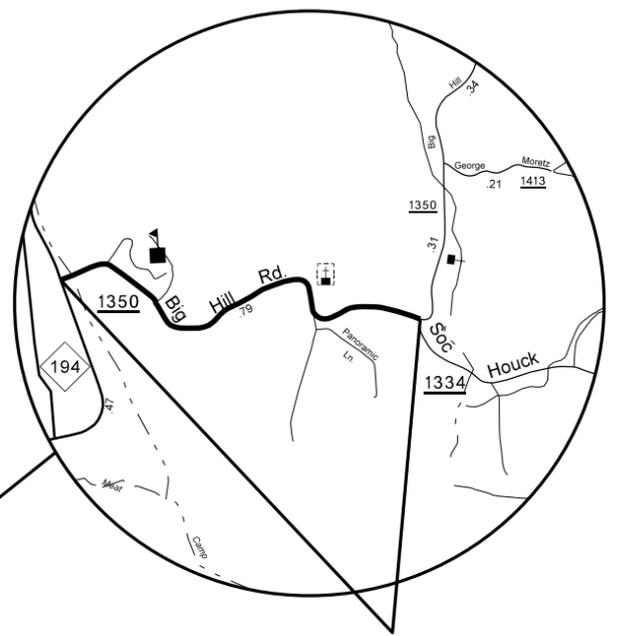
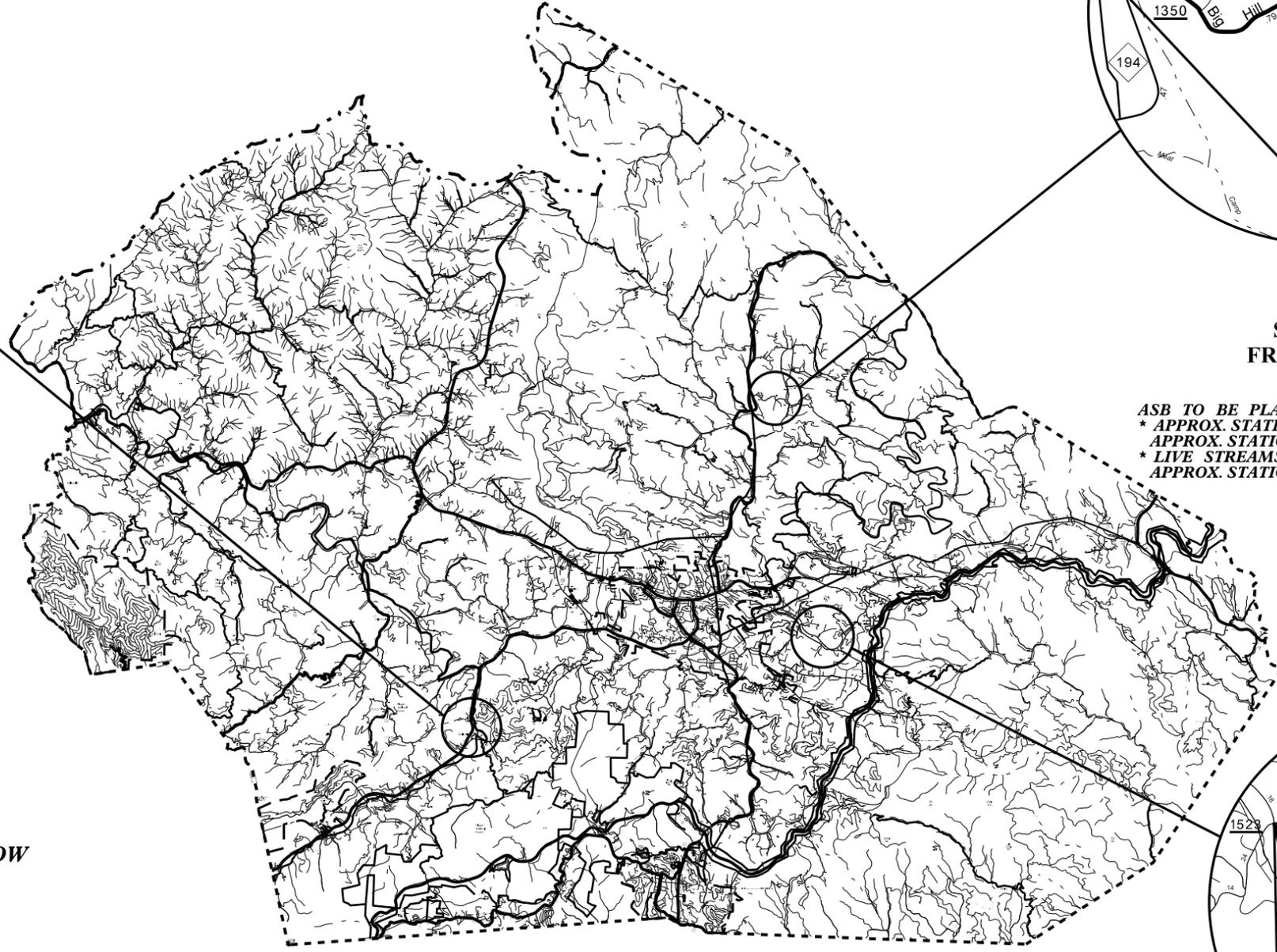
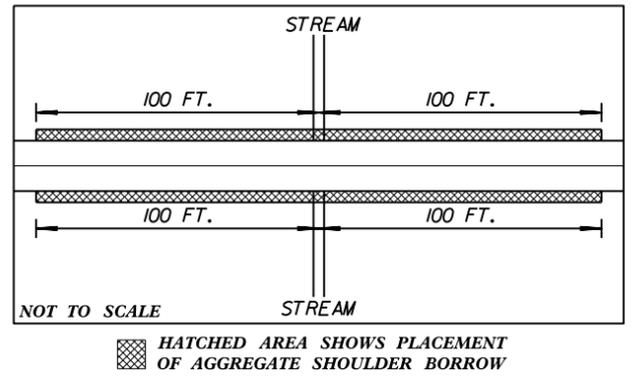
SECONDARY ASPHALT RESURFACING



MAP #1
SR 1568 (1.09 MILES)
FROM NC 105 TO NC 105
TYPE: SF9.5A

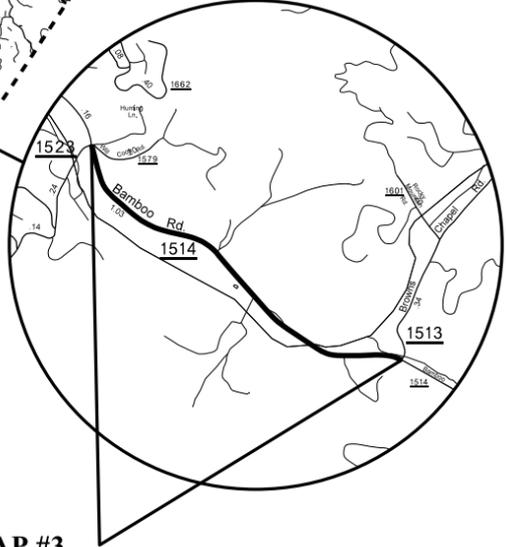
AGGREGATE SHOULDER BORROW TO BE PLACED:
 * APPROX. STATION 24+00 TO 26+00 RIGHT AND LEFT
 * APPROX. STATION 44+00 TO 46+00 RIGHT AND LEFT
 * LIVE STREAMS: SEE DETAIL
 * APPROX. STATION 6+00 TO 17+00 LEFT

***DETAIL FOR AGGREGATE SHOULDER BORROW AT STREAM CROSSING**



MAP #2
SR 1350 (0.80 MILES)
FROM NC 194 TO SR 1334
TYPE: SF9.5A

ASB TO BE PLACED:
 * APPROX. STATION 0+00 TO 1+70 RIGHT AND LEFT
 * APPROX. STATION 2+75 TO 4+75 RIGHT AND LEFT
 * LIVE STREAMS: SEE DETAIL
 * APPROX. STATION 0+70 TO 3+75 RIGHT AND LEFT



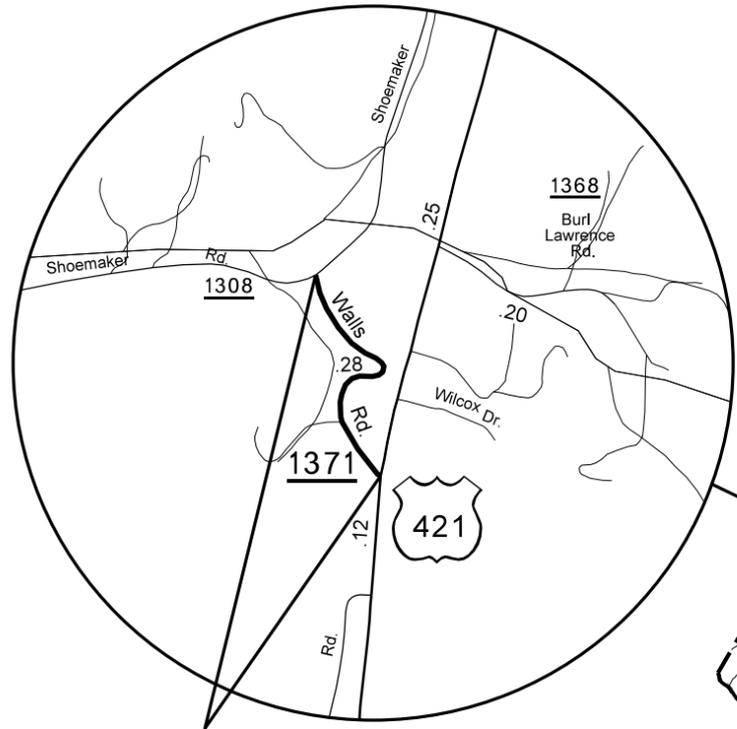
MAP #3
SR 1514 (1.06 MILES)
FROM SR 1523 TO SR 1513
TYPE: SF9.5A

8/17/99
I:\SEP-2014\1108\Users\l\l\l\Documents\Projects\Manager\Contracts\Division\DK00127 - 2015 Watauga Secondary Resurfacing\2015 Watauga Secondary Resurfacing.dgn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

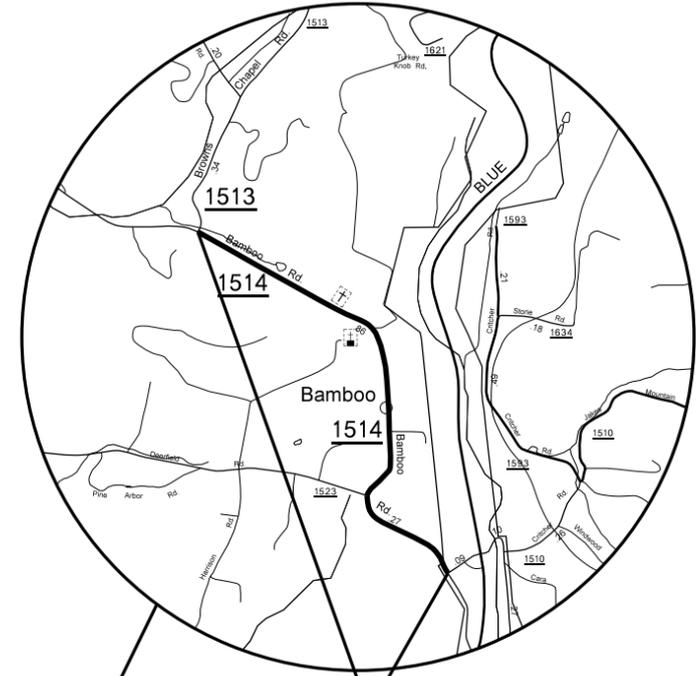
WATAUGA COUNTY

SECONDARY ASPHALT RESURFACING



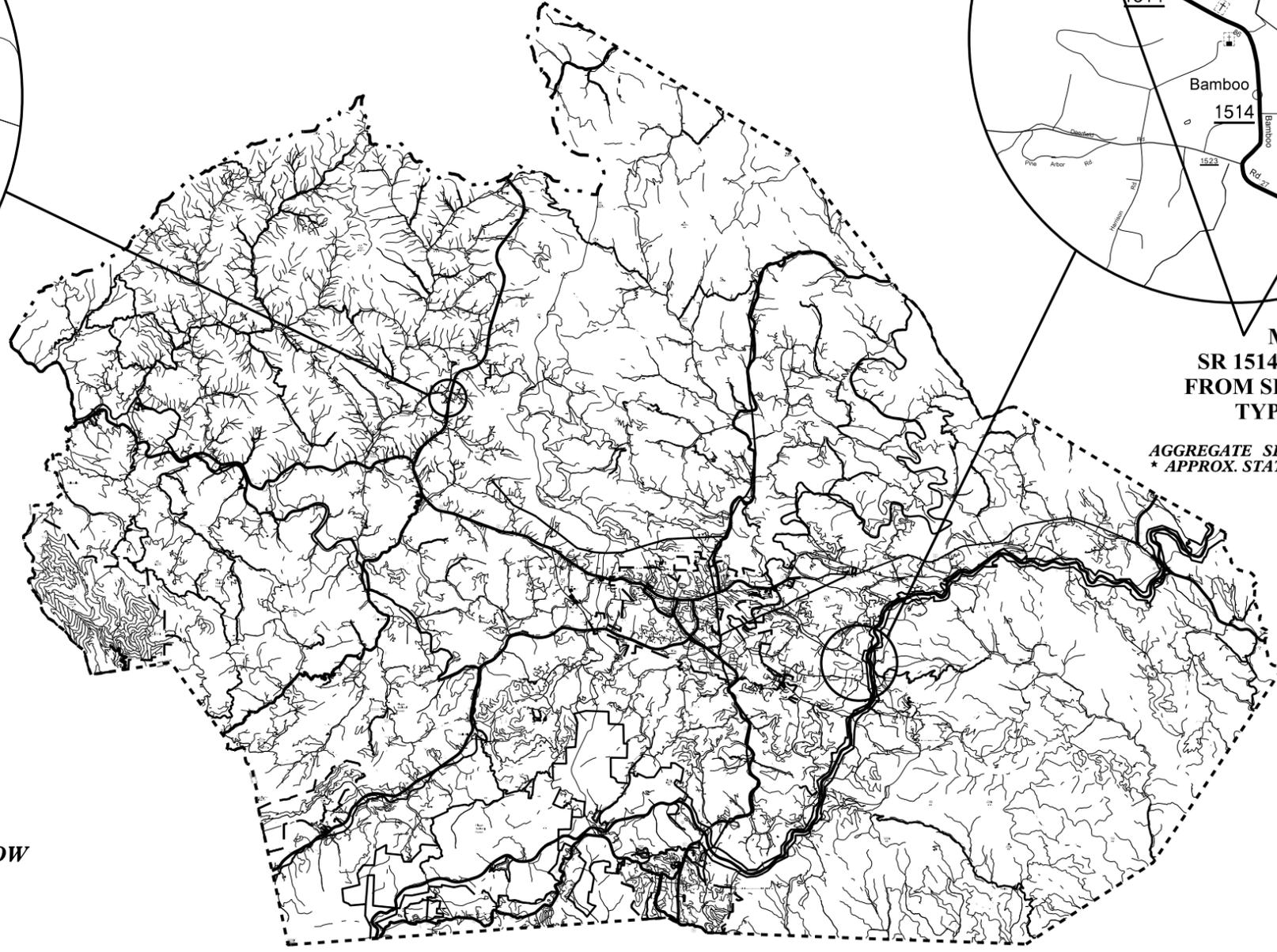
MAP #5
SR 1371 (0.28 MILES)
FROM SR 1308 TO US 421
TYPE: SF9.5A

ASB TO BE PLACED:
* APPROX. STATION 13+25 TO 15+25 RIGHT AND LEFT
* APPROX. STATION 23+00 TO 25+00 RIGHT AND LEFT

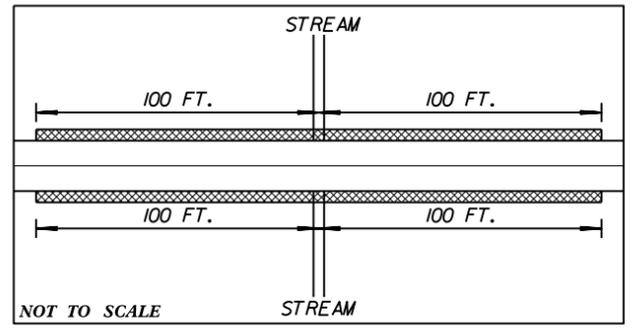


MAP #4
SR 1514 (1.14 MILES)
FROM SR 1513 TO EOP
TYPE: SF9.5A

AGGREGATE SHOULDER TO BE PLACED:
* APPROX. STATION 3+50 TO 5+50 RIGHT AND LEFT



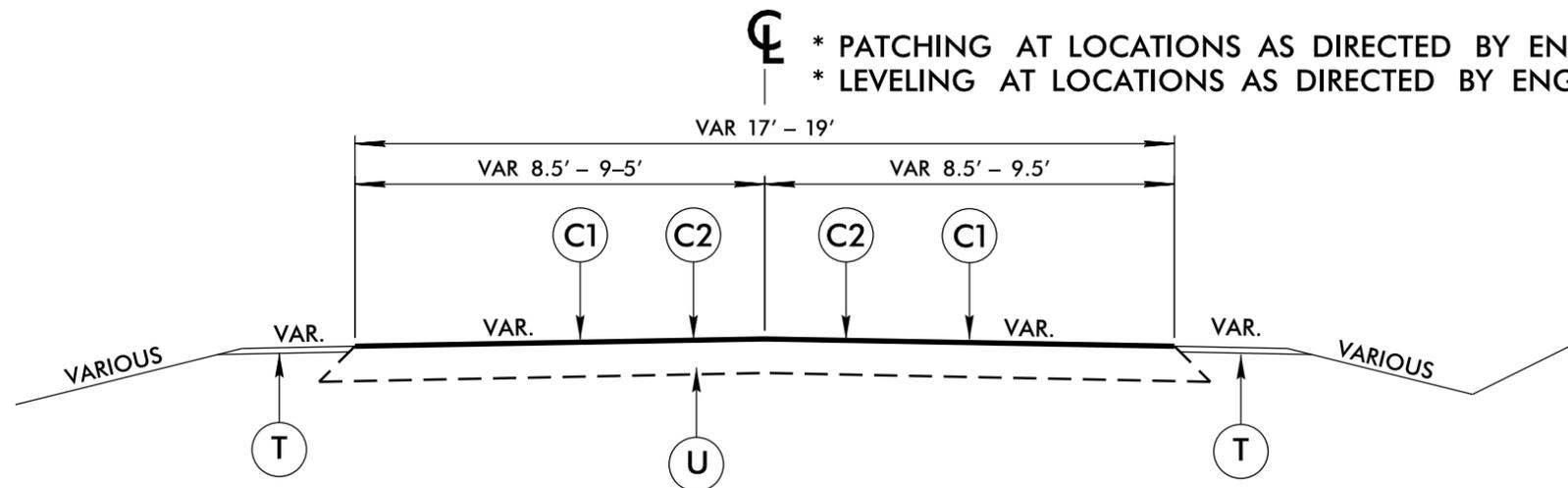
***DETAIL FOR AGGREGATE SHOULDER BORROW AT STREAM CROSSING**



NOT TO SCALE
HATCHED AREA SHOWS PLACEMENT OF AGGREGATE SHOULDER BORROW

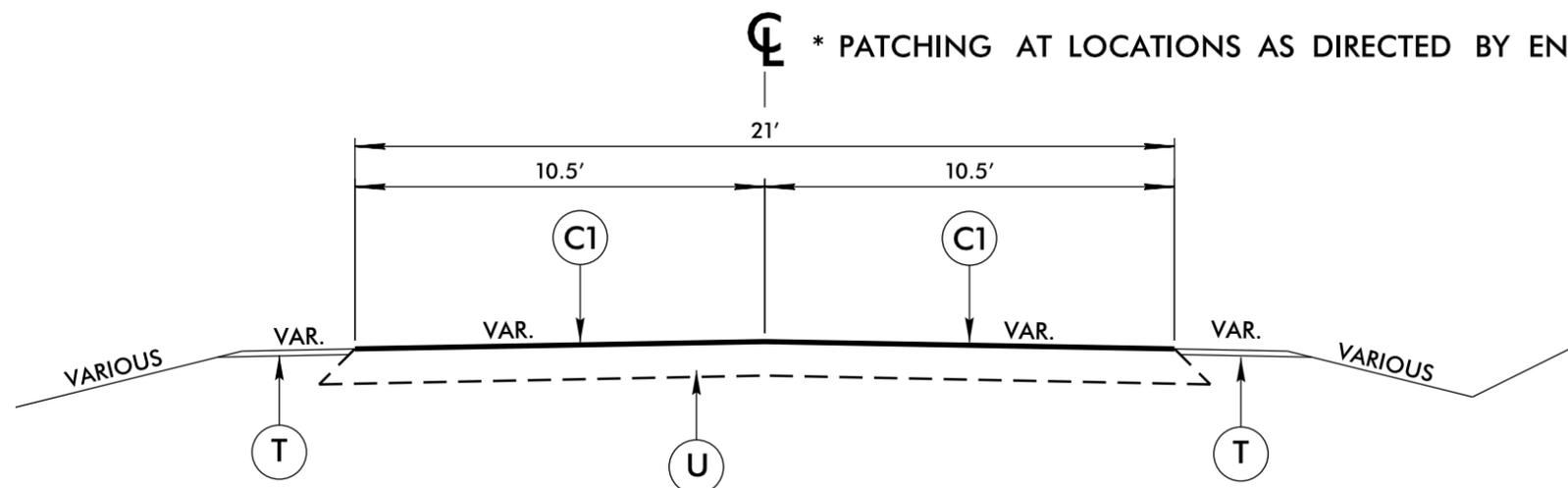
8/17/99
I:\-SEP-2014 11:09
C:\Users\jlawr\Documents\Projects\Watauga\Secondary Resurfacing\2015 Watauga Secondary Resurfacing\2015 Watauga Secondary Resurfacing.dgn

8/17/99



TYPICAL SECTION NO. 1

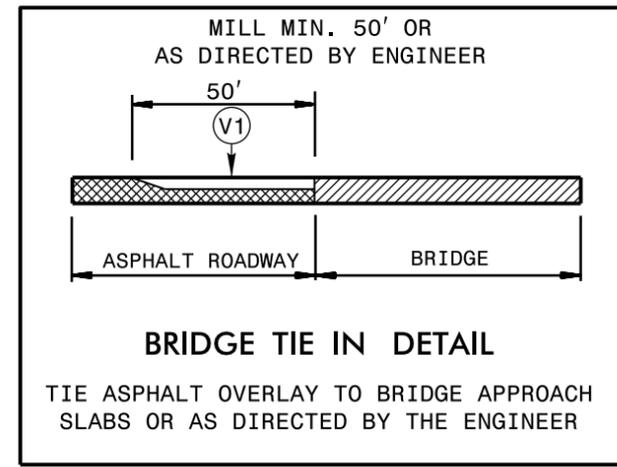
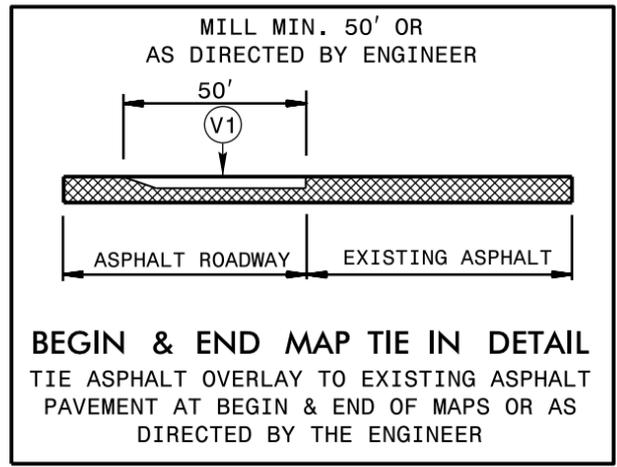
- * MAP 1 - SR 1568 FROM NC 105 TO NC 105
- * MAP 2 - SR 1350 FROM NC 194 TO SR 1334
- * MAP 5 - SR 1371 FROM SR 1308 TO US 421



TYPICAL SECTION NO. 2

- * MAP 3 - SR 1514 FROM SR 1523 TO SR 1513
- * MAP 4 - SR 1514 FROM SR 1513 TO EOP

| PAVEMENT SCHEDULE | |
|-------------------|---|
| C1 | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. |
| C2 | ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, LEVELING COURSE. |
| T | SHOULDER RECONSTRUCTION |
| U | EXISTING PAVEMENT |
| V1 | INCIDENTAL MILLING |



**WATAUGA COUNTY
SECONDARY RESURFACING**

DIVISION II

| REVISIONS | INT. | DATE |
|-----------|------|------|
| | | |
| | | |
| | | |

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

SCALE: N/A DATE: 08/2014

PREPARED BY: CHAD SHEETS

REVIEWED BY:

REVIEWED BY:

| | | |
|---------------|-----------|-----------|
| PROJECT NO. | SHEET NO. | TOTAL NO. |
| 11CR.20951.22 | | |
| | | |

SUMMARY OF QUANTITIES

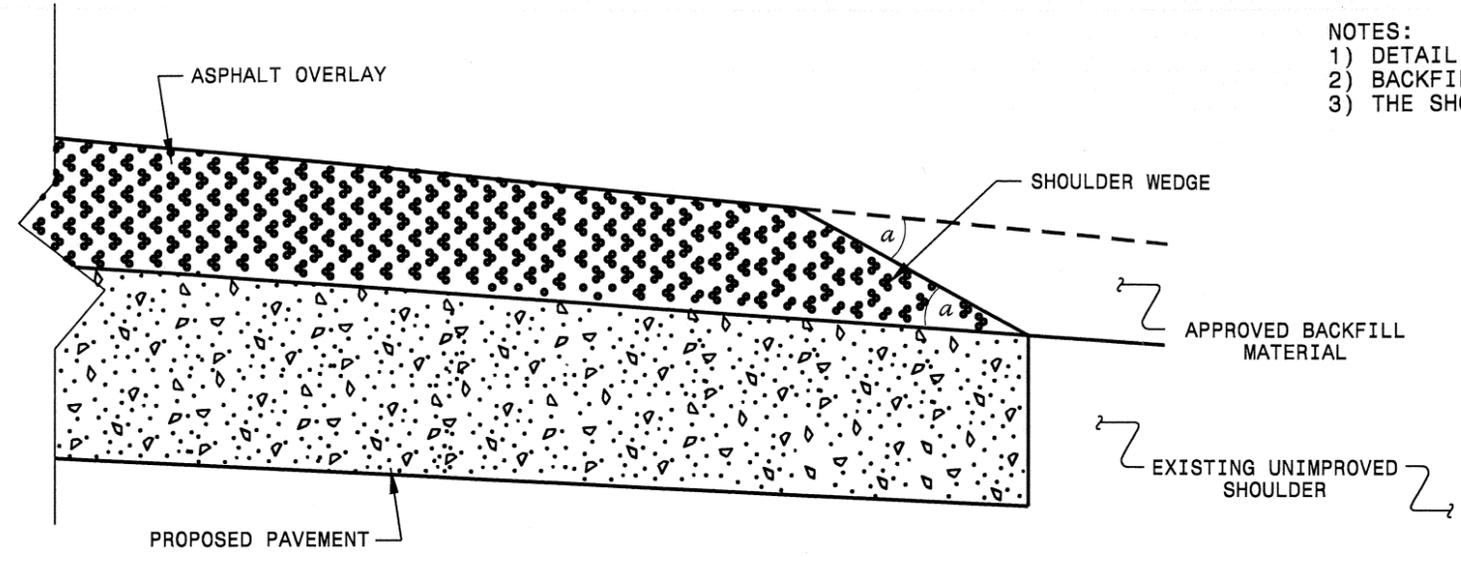
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH M | WIDTH FT | BORROW EXCAVATION CY | INCIDENTAL STONE BASE TONS | SHOULDER RECONSTRUCTION SM | INCIDENTAL MILLING SY | SURFACE COURSE, SF9.5A TONS | LEVELING COURSE, SF9.5A TONS | ASPHALT BINDER FOR PLANT MIX TONS | PATCHING EXISTING PAVEMENT TONS | SEED & MULCHING AC |
|---|---------|--------|---------|-------------------------|--------|-------|-----------|--------------------------------|---------------------------|-------------|----------|----------------------|----------------------------|----------------------------|-----------------------|-----------------------------|------------------------------|-----------------------------------|---------------------------------|--------------------|
| 11CR.20951.22 | Watauga | 1 | SR 1568 | FROM NC 105 TO NC 105 | 1 | 2 | 2WU | NO | NO | 1.09 | 19 | 218 | 50 | 2.18 | 250 | 1,060 | 400 | 95 | 200 | 0.75 |
| 11CR.20951.22 | Watauga | 2 | SR 1350 | FROM NC 194 TO SR 1334 | 1 | 2 | 2WU | NO | NO | 0.8 | 18 | 160 | 50 | 1.60 | 200 | 750 | 300 | 68 | 100 | 0.55 |
| 11CR.20951.22 | Watauga | 3 | SR 1514 | FROM SR 1523 TO SR 1513 | 2 | 2 | 2WU | NO | NO | 1.06 | 21 | 212 | 50 | 2.12 | 400 | 1,180 | | 79 | 200 | 0.75 |
| 11CR.20951.22 | Watauga | 4 | SR 1514 | FROM SR 1513 TO EOP | 2 | 2 | 2WU | NO | NO | 1.14 | 21 | 228 | 50 | 2.28 | 500 | 1,255 | | 84 | 200 | 0.80 |
| 11CR.20951.22 | Watauga | 5 | SR 1371 | FROM SR 1308 TO US 421 | 1 | 2 | 2WU | NO | NO | 0.28 | 17 | 56 | 20 | 0.56 | 200 | 245 | 100 | 22 | 50 | 0.20 |
| TOTAL FOR PROJ NO. 11CR.20951.22 | | | | | | | | | | 4.37 | | 874 | 220 | 8.74 | 1,550 | 4,490 | 800 | 348 | 750 | 3.05 |
| | | | | | | | | | | | | | | | | | | | | |
| GRAND TOTAL | | | | | | | | | | 4.37 | | 874 | 220 | 8.74 | 1,550 | 4,490 | 800 | 348 | 750 | 3.05 |

| | | |
|---------------|-----------|-----------|
| PROJECT NO. | SHEET NO. | TOTAL NO. |
| 11CR.20951.22 | | |
| | | |

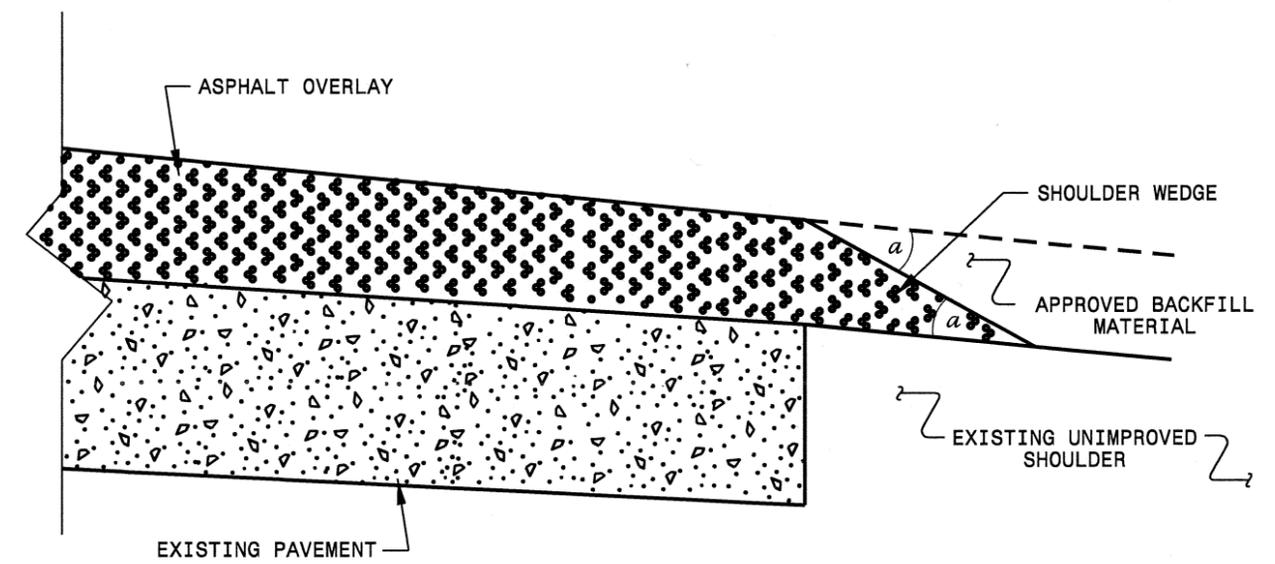
THERMOPLASTIC AND PAINT QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | LENGTH | WIDTH | 4413000000-E | 4457000000-N | 4810000000-E | | 4835000000-E | 4840000000-N |
|---|---------|--------|---------|-------------------------|--------|-------|-----------|-------------|-------|--|------------------------------|-------------------|--------------------|--------------------|---------------------|
| | | | | | | | | | | WDRK ZONE ADVANCE/GENERAL WARNING SIGNS SF | TEMPORARY TRAFFIC CONTROL LS | 4" WHITE PAINT LF | 4" YELLOW PAINT LF | 24" WHITE PAINT LF | PAINT M&G SCHOOL EA |
| 11CR.20951.22 | Watauga | 1 | SR 1568 | FROM NC 105 TO NC 105 | 1 | 2 | 2WU | 1.09 | 19 | 114 | 1 | 23,020 | 23,020 | | |
| 11CR.20951.22 | Watauga | 2 | SR 1350 | FROM NC 194 TO SR 1334 | 1 | 2 | 2WU | 0.8 | 18 | 118 | * | 16,896 | 16,896 | 172 | 24 |
| 11CR.20951.22 | Watauga | 3 | SR 1514 | FROM SR 1523 TO SR 1513 | 2 | 2 | 2WU | 1.06 | 21 | 118 | * | 22,388 | 22,388 | | |
| 11CR.20951.22 | Watauga | 4 | SR 1514 | FROM SR 1513 TO EOP | 2 | 2 | 2WU | 1.14 | 21 | 118 | * | 24,080 | 24,080 | | |
| 11CR.20951.22 | Watauga | 5 | SR 1371 | FROM SR 1308 TO US 421 | 1 | 2 | 2WU | 0.28 | 17 | 114 | * | 5,914 | 5,914 | | |
| TOTAL FOR PROJ NO. 11CR.20951.22 | | | | | | | | 4.37 | | 582 | 1 | 92,298 | 92,298 | 172 | 24 |
| | | | | | | | | | | | | 184,596 | | | |
| GRANDTOTAL | | | | | | | | 4.37 | | 582 | 1 | 92,298 | 92,298 | 172 | 24 |
| | | | | | | | | | | | | 184,596 | | | |

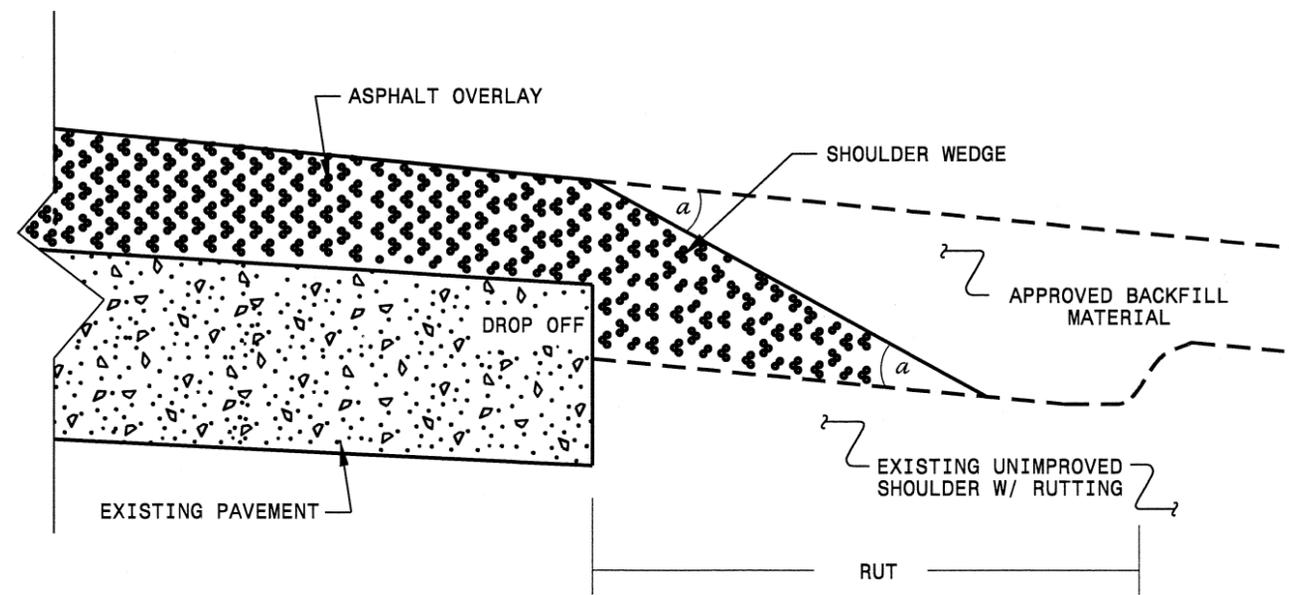
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

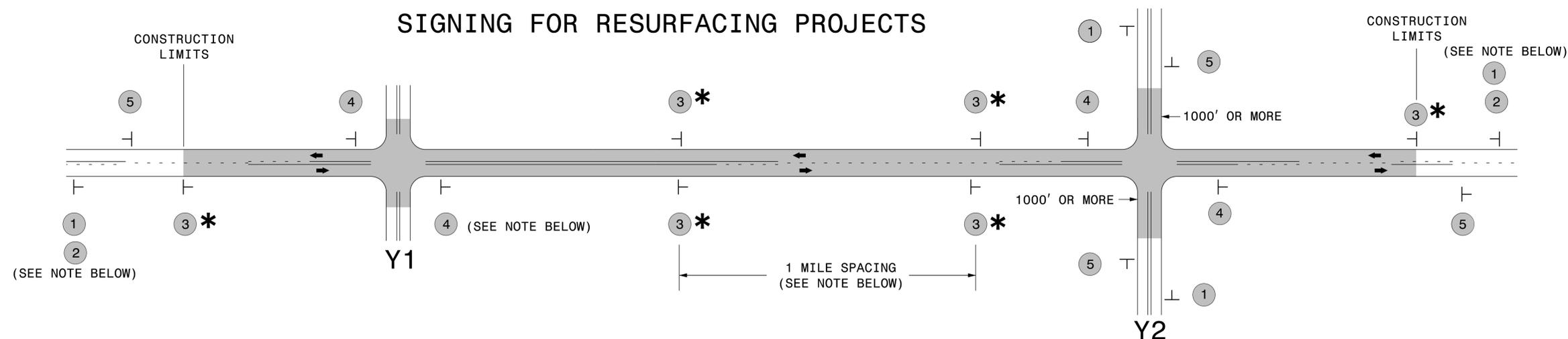
CONTRACT STANDARDS
 AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

**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
 CONSULTANTS

SIGNING FOR RESURFACING PROJECTS



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

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

| SIGNING NOTES AND PLACEMENT PER DIRECTION | | |
|--|--|--|
| 1 2 | | <p style="text-align: center;">NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p style="text-align: center;">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.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>W20-1 48" X 48"</p> </div> <div style="text-align: center;"> <p>W20-7 A 48" X 48"</p> </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> |
| 3 * | | |
| 4 | | |
| 5 | | |

* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:
STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



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