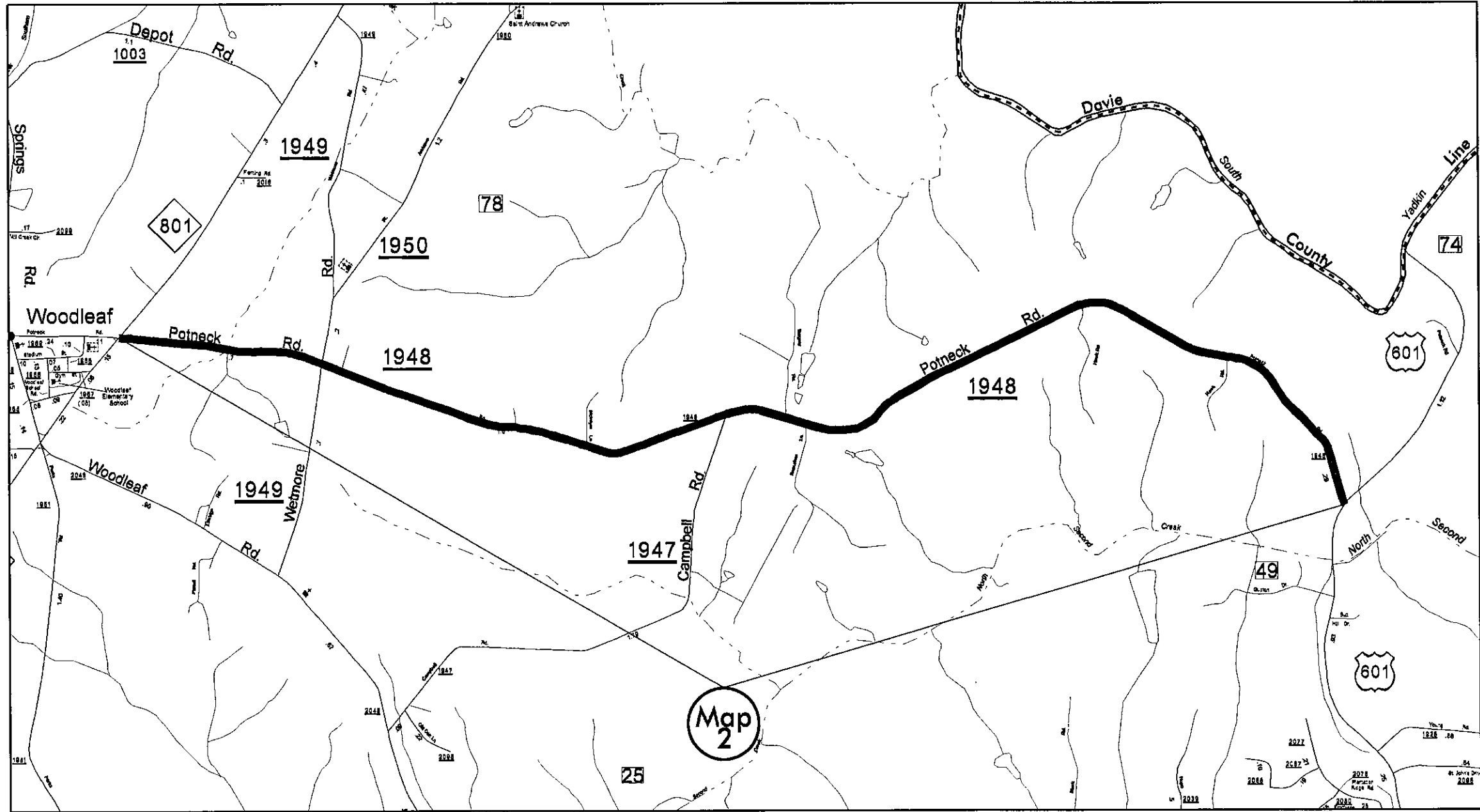


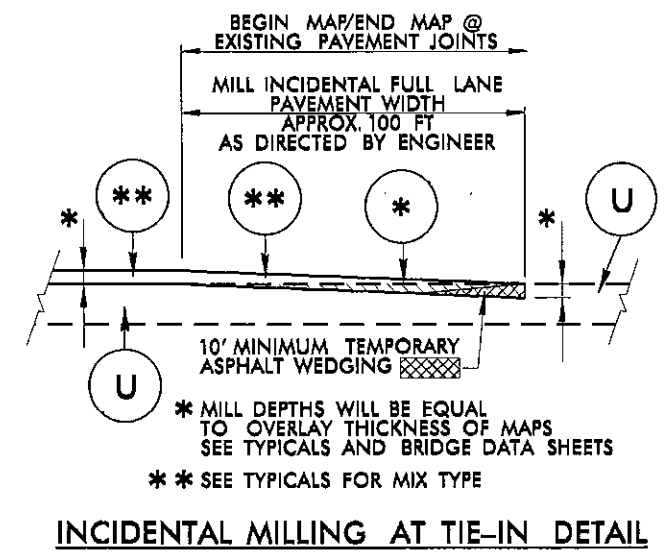
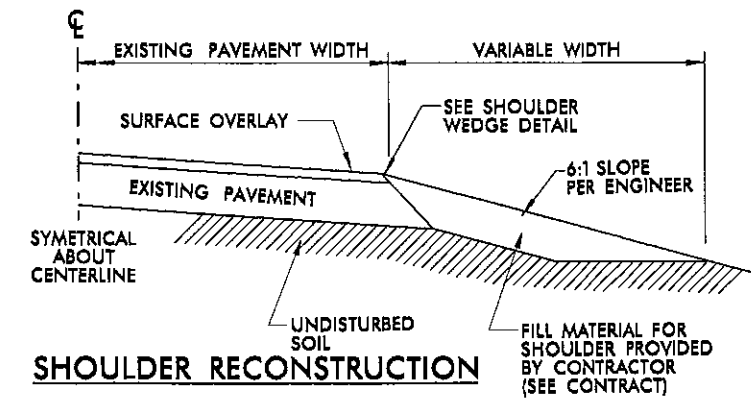
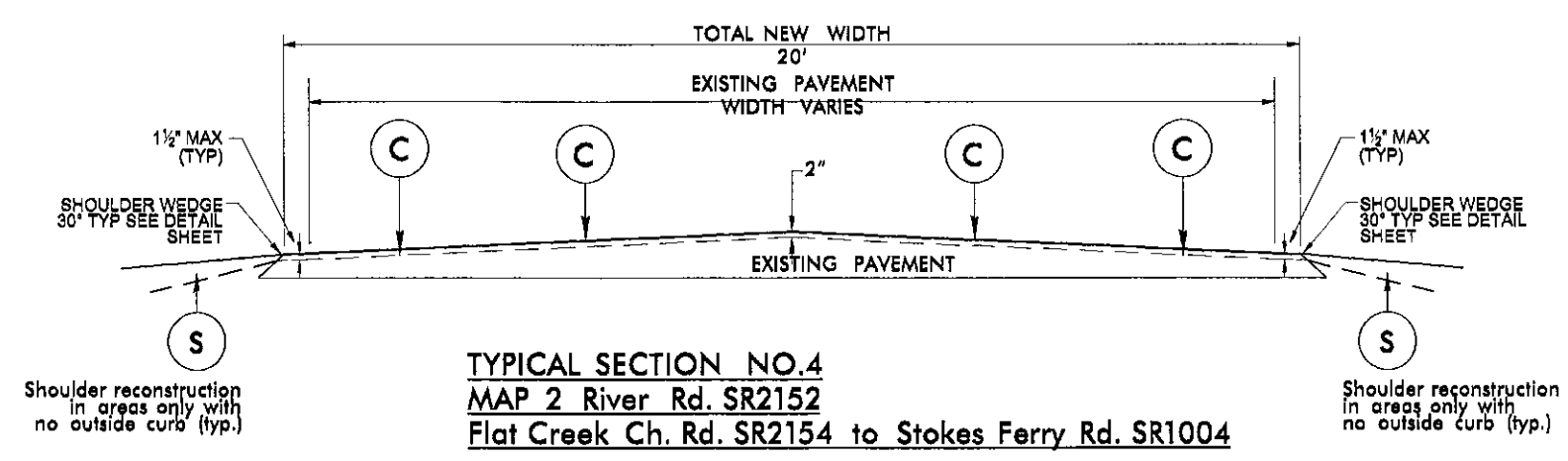
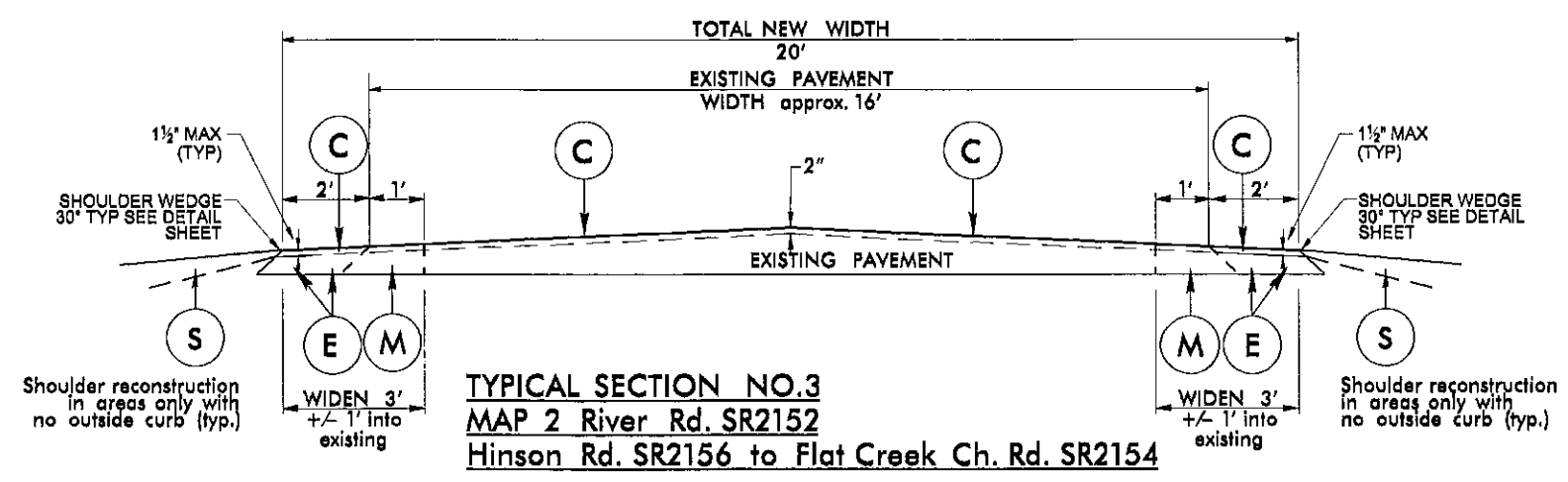
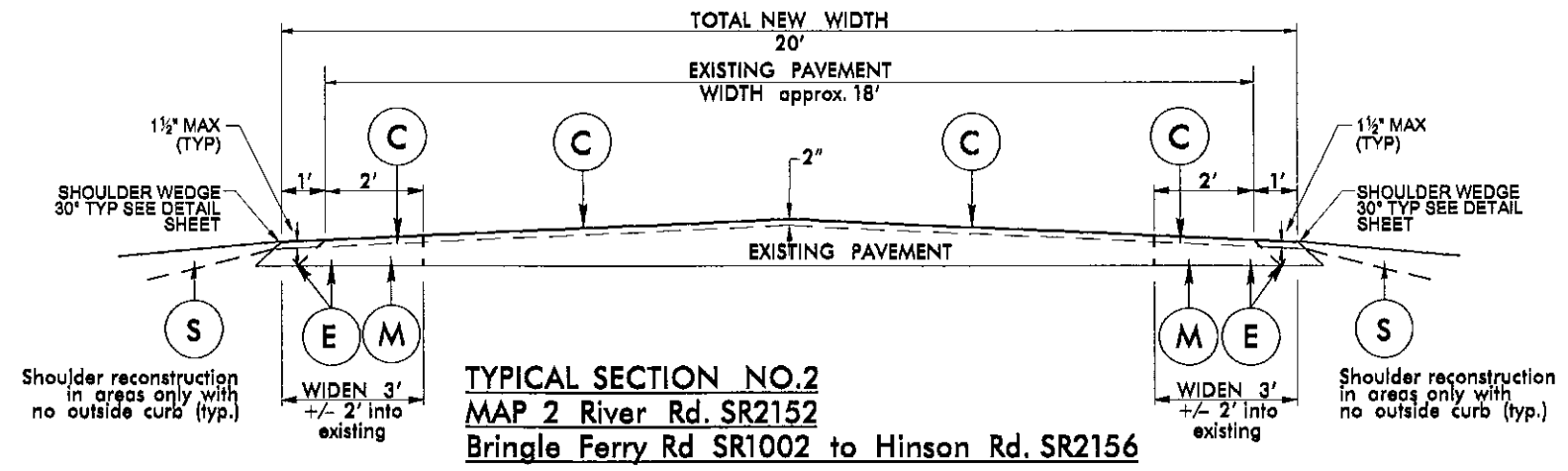
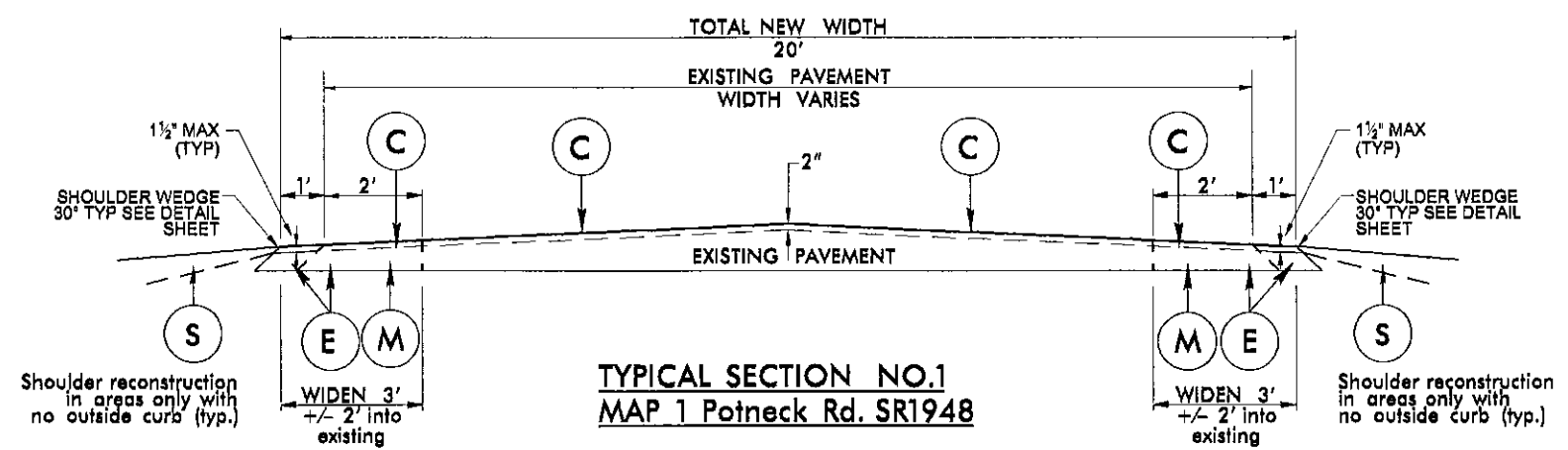
MAP 1  
 River Rd. SR 2152  
 Existing width varies 16 feet to 20 feet  
 Widen entire road to a Total new width of 20 feet.  
 16 foot width, widen 1 foot into existing pavement, 2 feet into dirt.  
 18 foot width, widen 2 feet into existing pavement, 1 foot into dirt.  
 Pave back widened area with 5½" B25.0C.  
 Overlay new width with S9.5C, 1½"  
 at pavement edge and 2" in center,  
 see Typical Section.

**ROWAN COUNTY**  
 NORTH CAROLINA

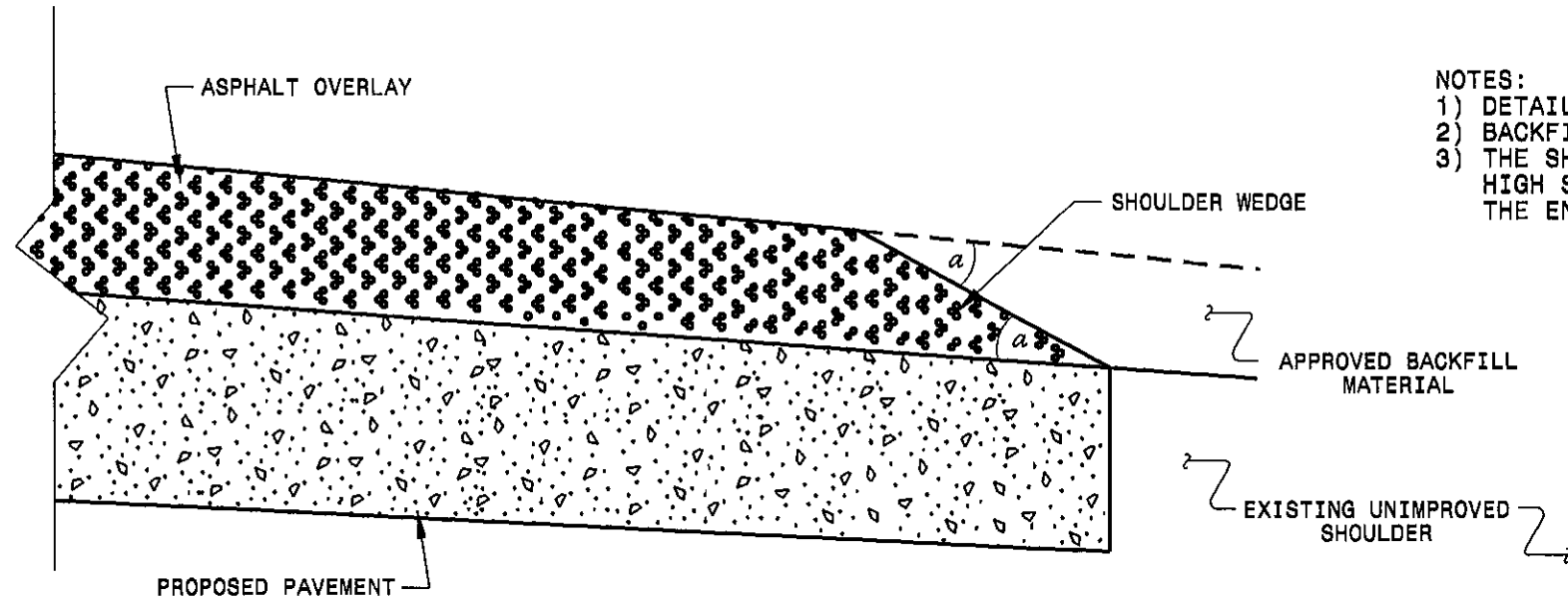


**MAP 2**  
 Potneck Rd. SR 1948  
 Widen 1 foot each side of existing pavement.  
 2 feet into existing pavement each side, and 1 foot into dirt each side of road. Total new width 20 feet.  
 Pave back widened area with 5½" B25.0C.  
 Overlay new width with S9.5C, 1½" at pavement edge and 2" in center, see Typical Section.

**ROWAN COUNTY**  
 NORTH CAROLINA

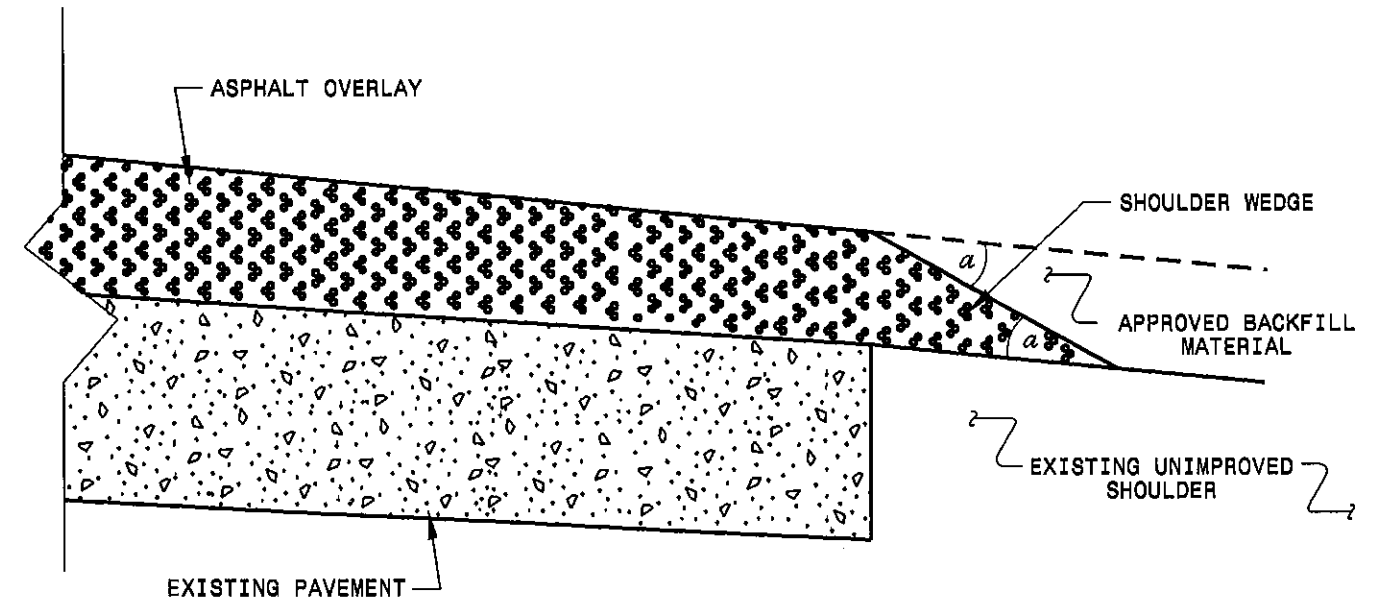


PAVEMENT SCHEDULE	
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
E	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
M	MILL ASPHALT PAVEMENT, 5½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

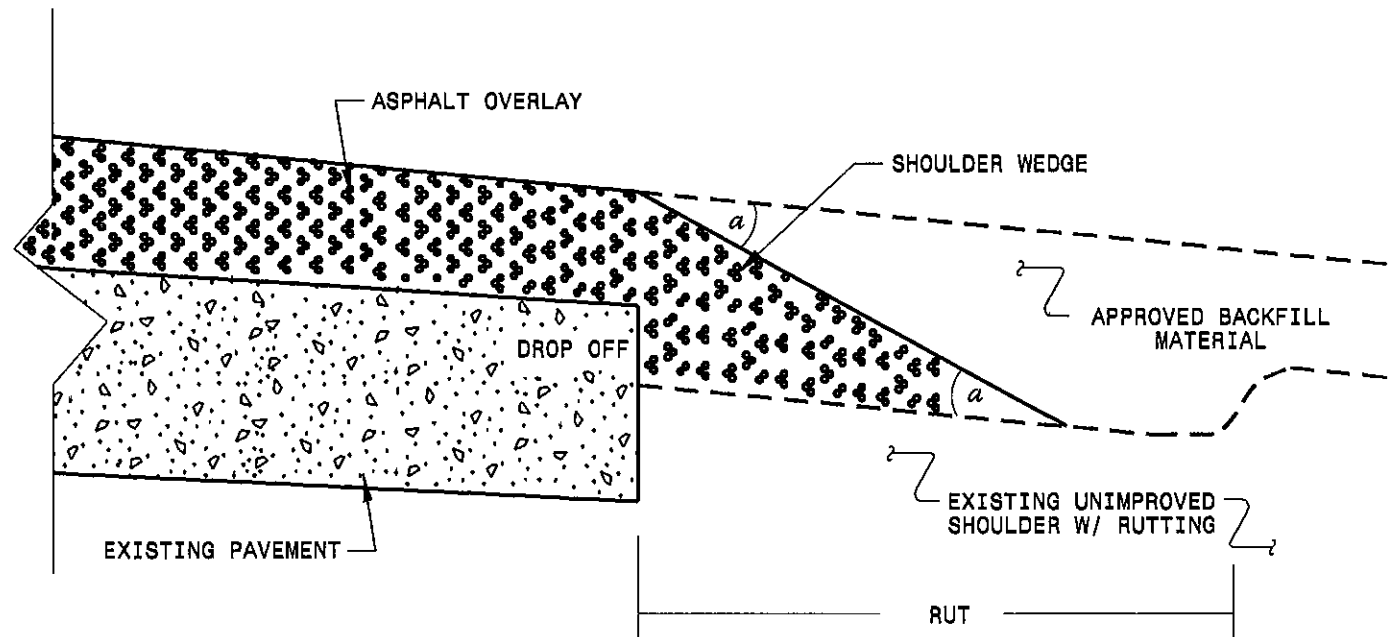


- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS DIRECTED BY THE ENGINEER.

**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°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-280-4119
<b>SHOULDER WEDGE DETAILS</b>	
ORIGINAL BY: T. SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.:	\\snc\datas\stand\shoulderwedge\detail.dgn

## CONSTRUCTION NOTES:

1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".

2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:

- PHASE 1 - MILLING AND PATCHING (WHEN REQUIRED)
- PHASE 2 - SURFACE OVERLAY
- PHASE 3 - SHOULDER DROP-OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
- PHASE 4 - UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.) WHEN REQUIRED.

3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.

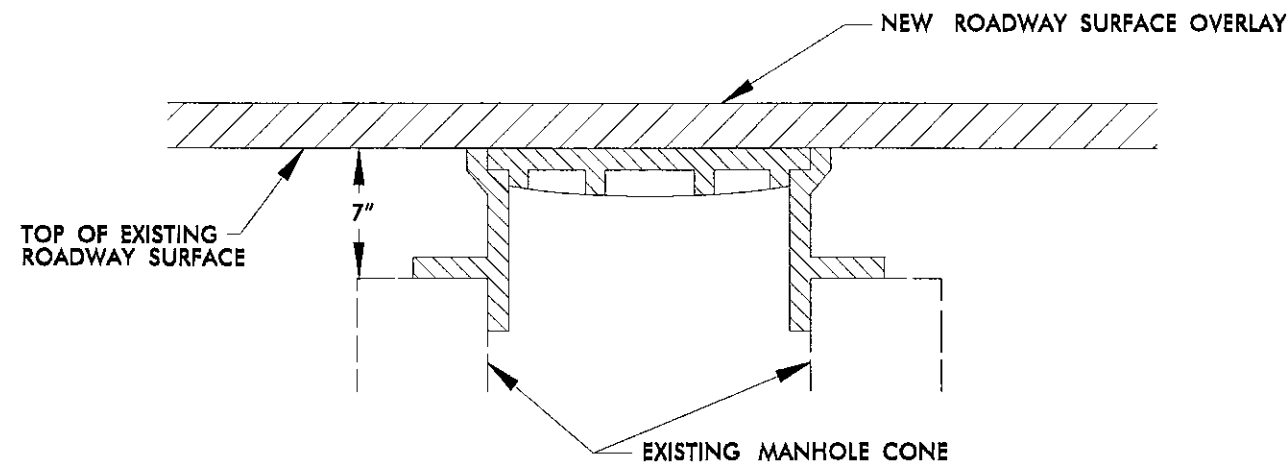
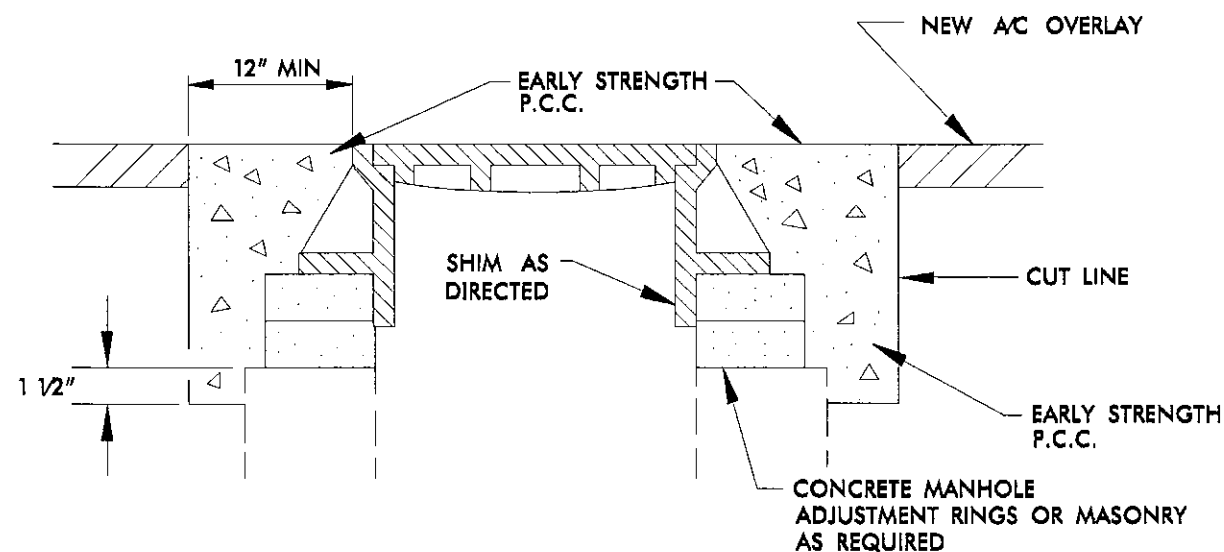
4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).

5. FOR TWO-LANE ROADWAYS - IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE. THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

6. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610-11.

7. ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.

8. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS AT ANY INTERSECTION INCLUDING Y-LINES NOT ACTUALLY BEING PAVED OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING OPERATION

**STEP 1****STEPS 2,3, & 4**

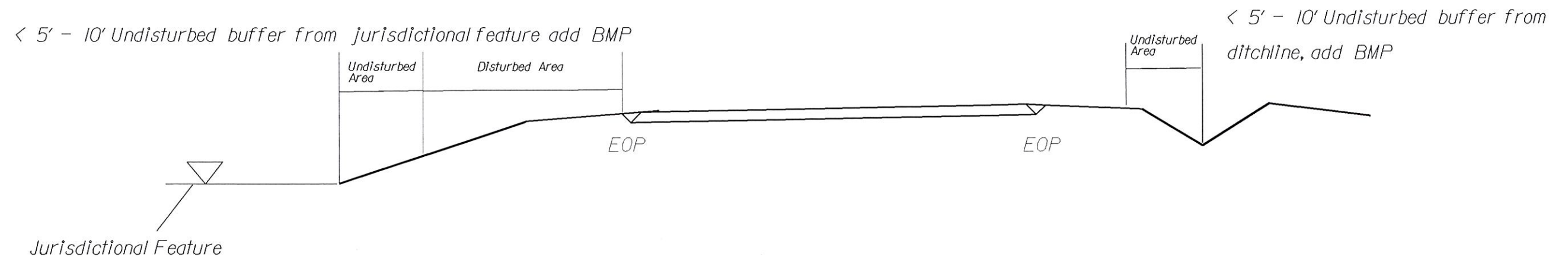
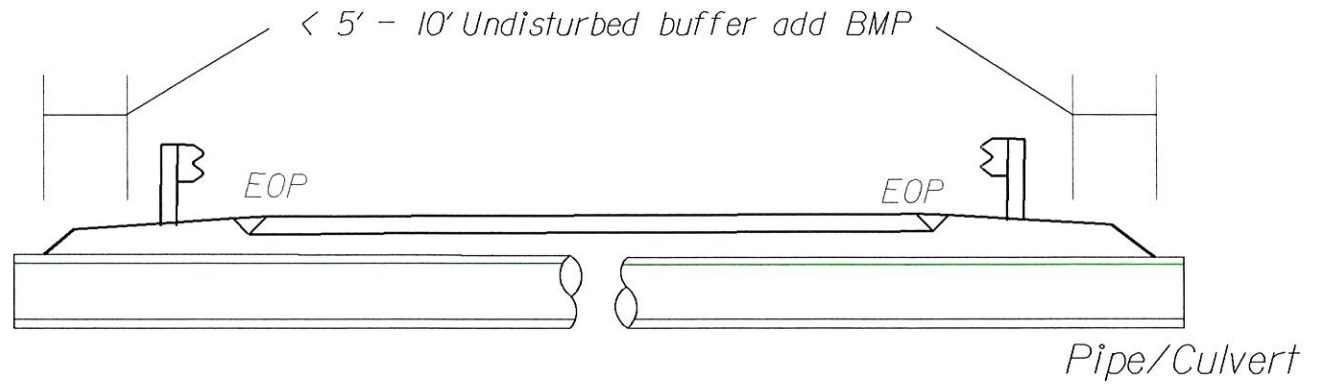
- STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE
- STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.
- STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAVEMENT PROFILE AND CROSS SLOPE.
- STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

**MANHOLE ADJUSTMENT DETAIL**

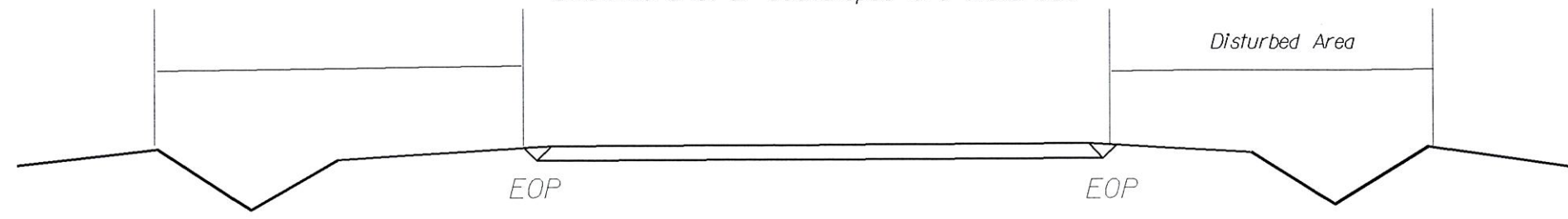
# EROSION CONTROL DETAIL

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

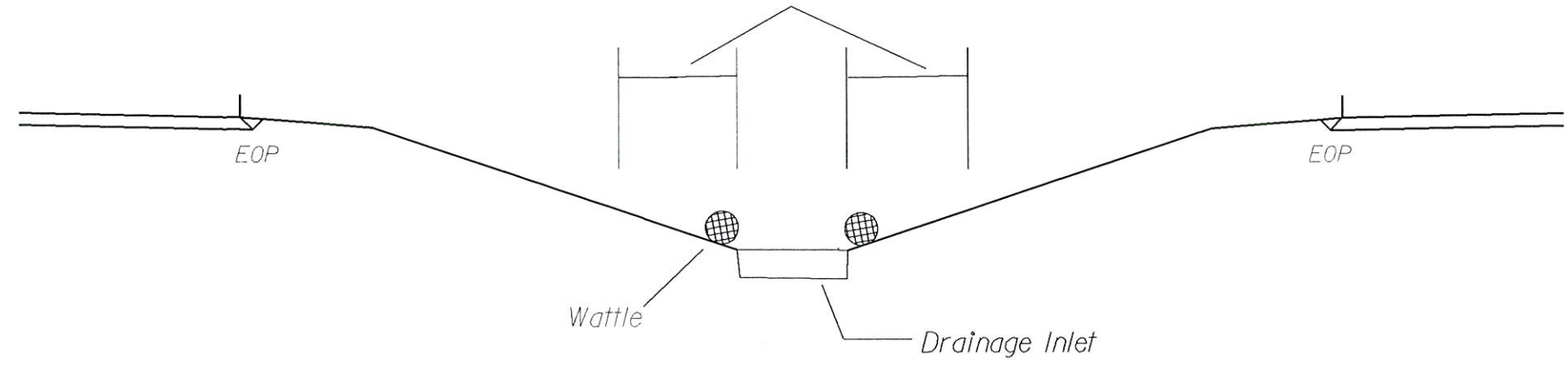
BMP Options: Wattle or Silt Fence



Use BMP's if shoulders and/or front slopes and/or ditchline and/or back slopes are disturbed



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



NOT TO SCALE

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.09.08.20801.1	7	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1491000000-E	1523000000-E	1575000000-E	1704000000-E	6000000000-E	6071010000-E		
												BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTI ON	MILLING ASPHALT PAVEMENT, 5 1/2"DEPTH	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	TEMPORARY SILT FENCE	WATTLE		
												MI	FT	CY	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	LF	LF
2018CPT.09.08.20801.1	Rowan	1	RIVER RD. SR 2152	FROM BRINGLE FERRY RD. SR 1002 TO STOKES FERRY RD. SR 1004	2,3,4	2	2WU	NO	NO	6.66	16-20	799	645	13.32	11,158	444	4,142	8,485	696	50	2,664	266		
<b>TOTAL FOR MAP NO. 1</b>										<b>6.66</b>		<b>799</b>	<b>645</b>	<b>13.32</b>	<b>11,158</b>	<b>444</b>	<b>4,142</b>	<b>8,485</b>	<b>696</b>	<b>50</b>	<b>2,664</b>	<b>266</b>		
2018CPT.09.08.20801.1	Rowan	2	POTNECK RD. SR 1948	FROM US 601 TO NC 801	1	2	2WU	NO	NO	4.76	20	571	510	9.52	16,755	444	6,219	6,065	644	50	1,904	190		
<b>TOTAL FOR MAP NO. 2</b>										<b>4.76</b>		<b>571</b>	<b>510</b>	<b>9.52</b>	<b>16,755</b>	<b>444</b>	<b>6,219</b>	<b>6,065</b>	<b>644</b>	<b>50</b>	<b>1,904</b>	<b>190</b>		
<b>TOTAL FOR PROJ NO. 2018CPT.09.08.20801.1</b>										<b>11.42</b>		<b>1,370</b>	<b>1,155</b>	<b>22.84</b>	<b>27,913</b>	<b>888</b>	<b>10,361</b>	<b>14,550</b>	<b>1,340</b>	<b>100</b>	<b>4,568</b>	<b>456</b>		
<b>GRAND TOTAL</b>										<b>11.42</b>		<b>1,370</b>	<b>1,155</b>	<b>22.84</b>	<b>27,913</b>	<b>888</b>	<b>10,361</b>	<b>14,550</b>	<b>1,340</b>	<b>100</b>	<b>4,568</b>	<b>456</b>		

**NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.**

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.09.08.20801.1	8	

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4685000000-E	4686000000-E	
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M YELLOW THERMO	
										MI	FT	SF	LS	LF
2018CPT.09.08.20801.1	Rowan	1	RIVER RD. SR 2152	FROM BRINGLE FERRY RD. SR 1002 TO STOKES FERRY RD. SR 1004	2,3,4	2	2WU	6.66	16-20	746	1	71,662	70,330	
<b>TOTAL FOR MAP NO. 1</b>										<b>6.66</b>	<b>746</b>	<b>1</b>	<b>71,662</b>	<b>70,330</b>
2018CPT.09.08.20801.1	Rowan	2	POTNECK RD. SR 1948	FROM US 601 TO NC 801	1	2	2WU	4.76	20	533	1	51,218	50,266	
<b>TOTAL FOR MAP NO. 2</b>										<b>4.76</b>	<b>533</b>	<b>1</b>	<b>51,218</b>	<b>50,266</b>
<b>TOTAL FOR PROJ NO. 2018CPT.09.08.20801.1</b>										<b>11.42</b>	<b>1,279</b>	<b>2</b>	<b>122,880</b>	<b>120,596</b>
<b>GRAND TOTAL</b>										<b>11.42</b>	<b>1,279</b>	<b>2</b>	<b>122,880</b>	<b>120,596</b>

**NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.**