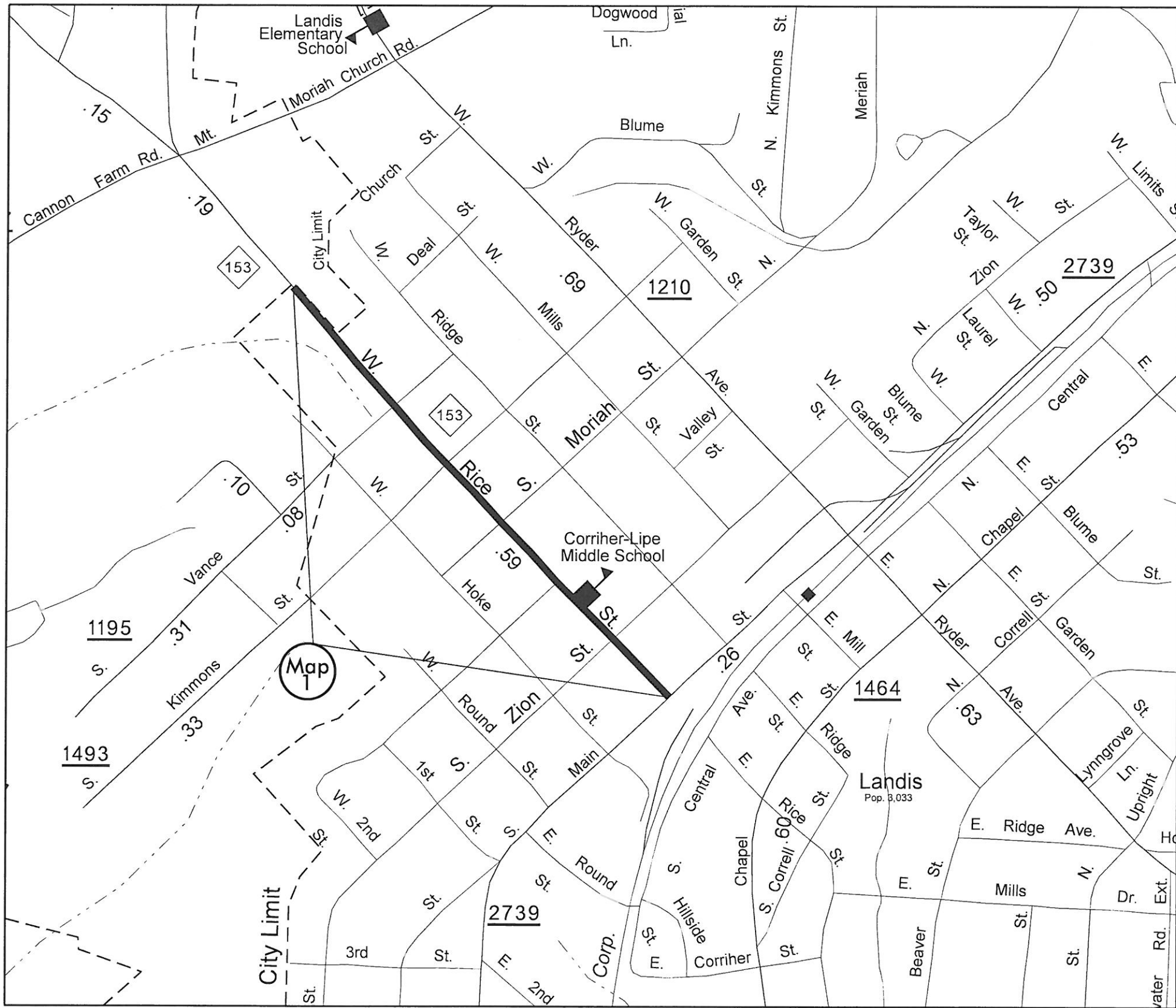
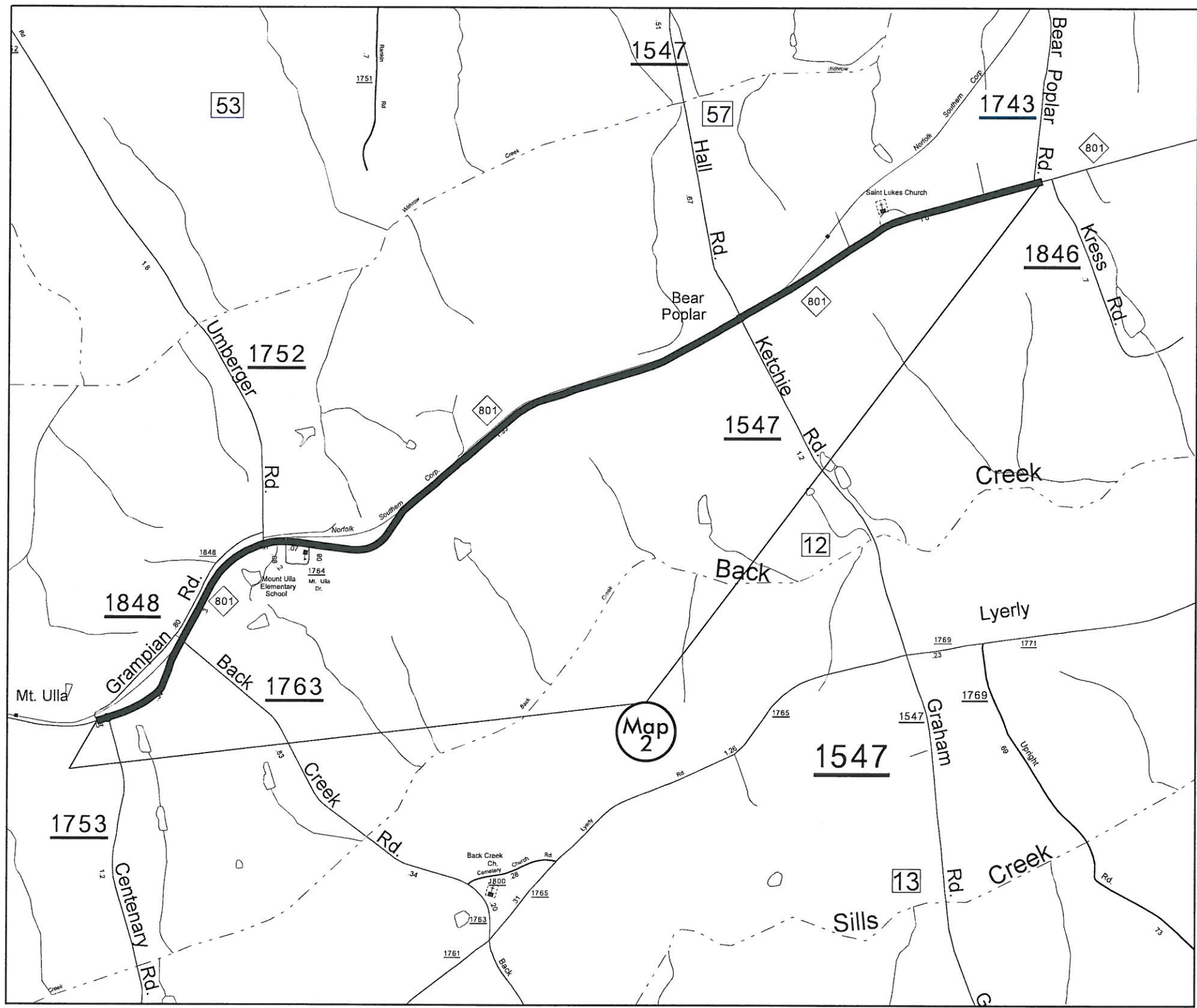


PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.24.10801.1 2016CPT.09.25.20801.1	1



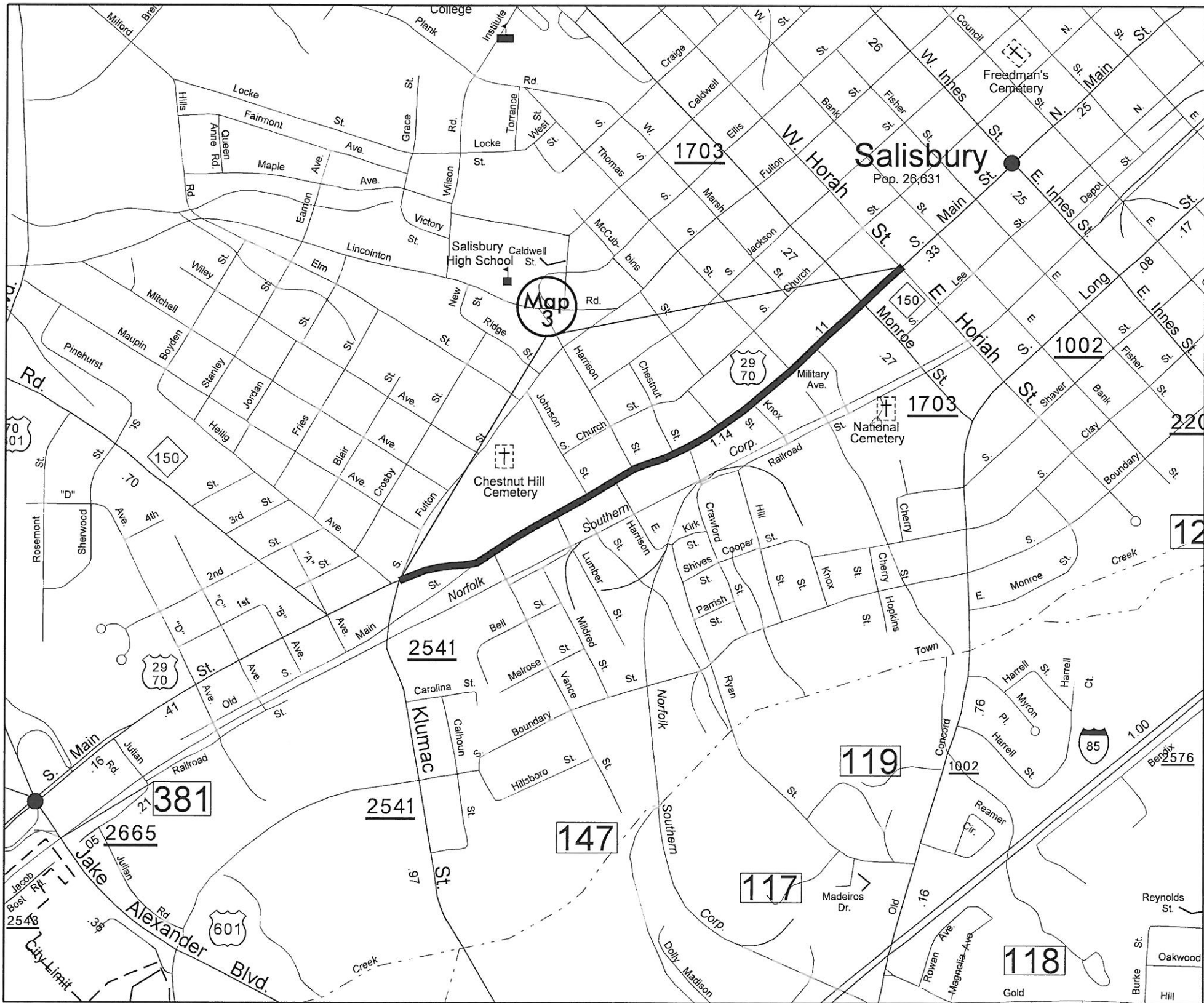
MAP 1  
 NC 153  
 Mill 0- 1½" from center of road to curb  
 to re establish crown of road.

**ROWAN COUNTY**  
 NORTH CAROLINA



MAP 2  
NC 801  
Tie In Mill ends of Map.

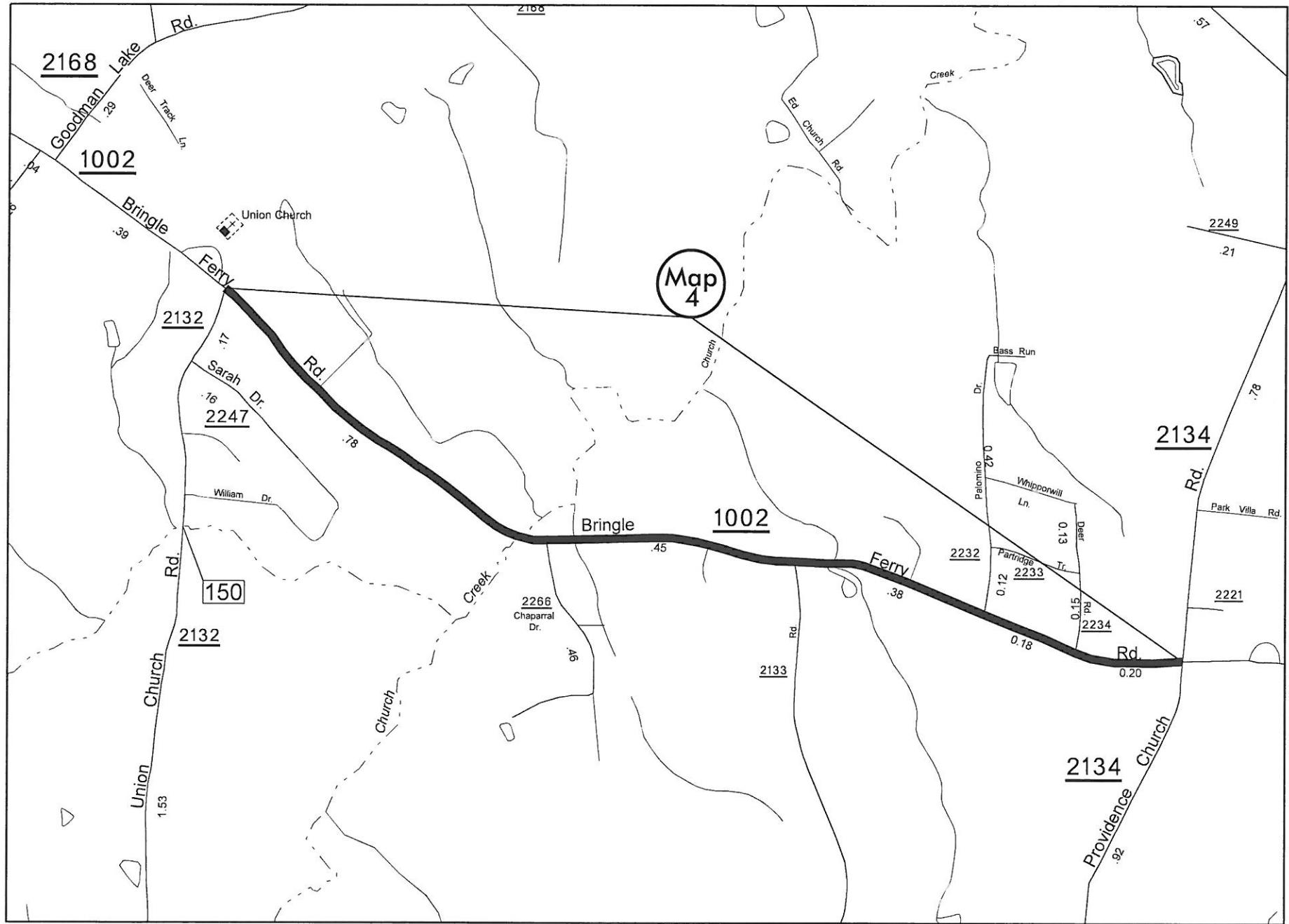
**ROWAN COUNTY**  
NORTH CAROLINA



MAP 3  
 US 29 S. Main St.  
 Mill 3" Depth Full width of pavement.  
 Pave Back with 1½" S9.5B.

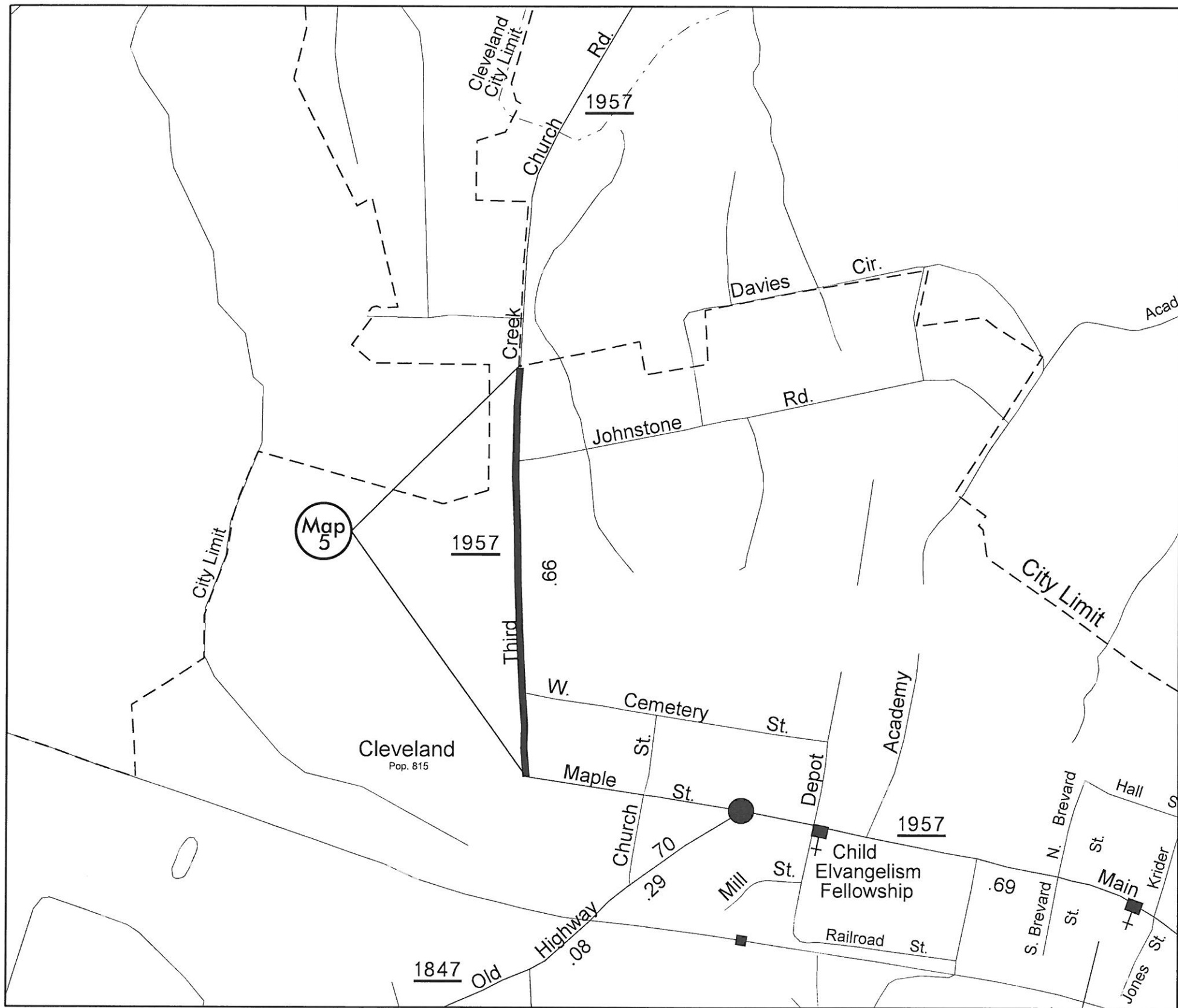
**ROWAN COUNTY**  
 NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.24.10801.1	4
2016CPT.09.25.20801.1	

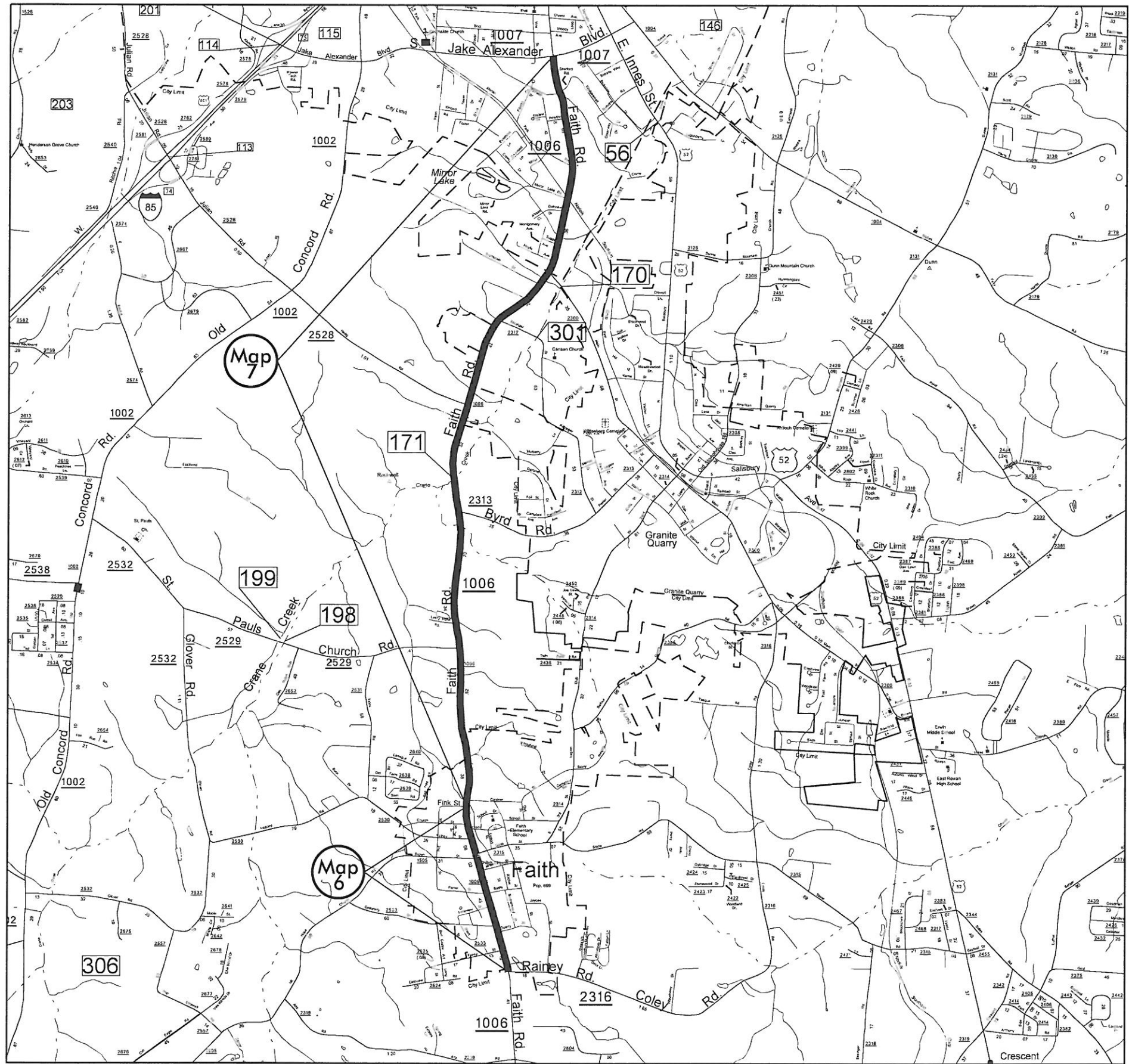


MAP 4  
 Bringle Ferry Rd. SR 1002  
 Mill 1½" Depth Full width of pavement.  
 Pave back with 1½" S9.5B

**ROWAN COUNTY**  
 NORTH CAROLINA



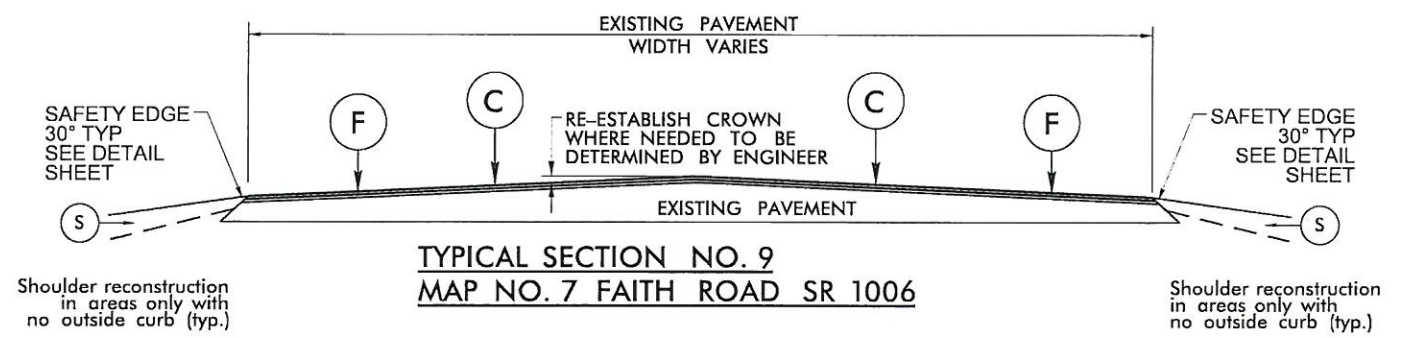
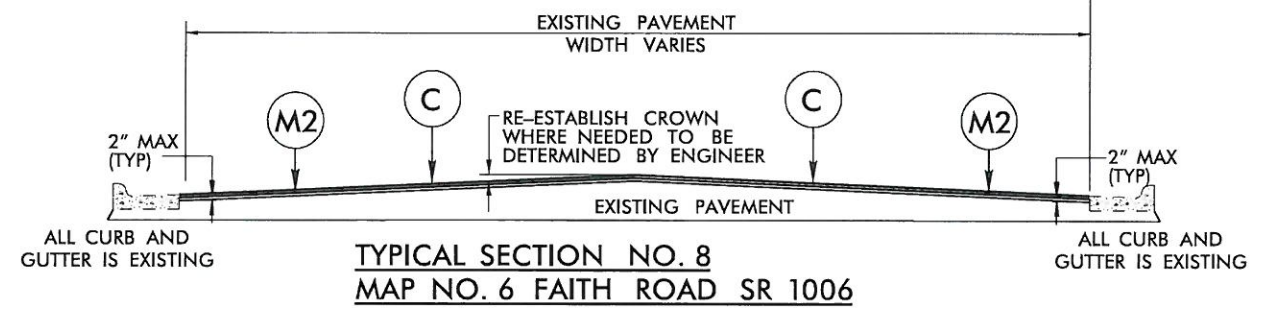
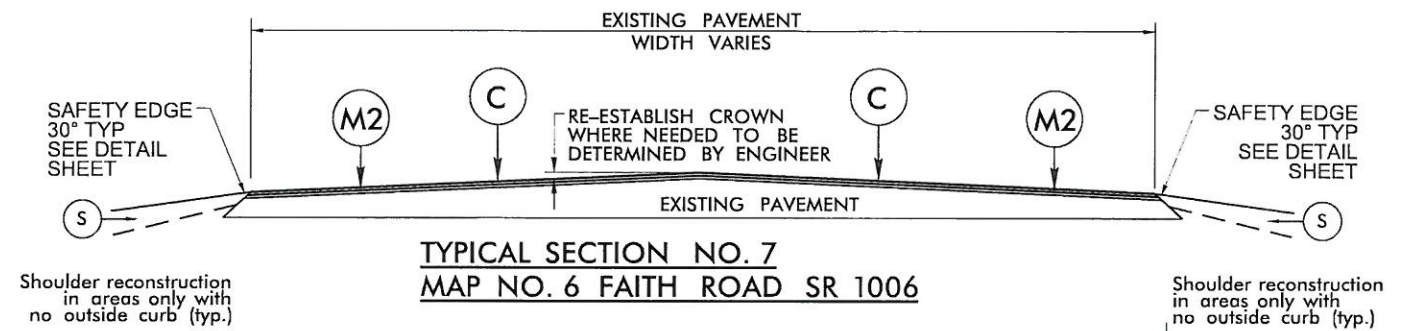
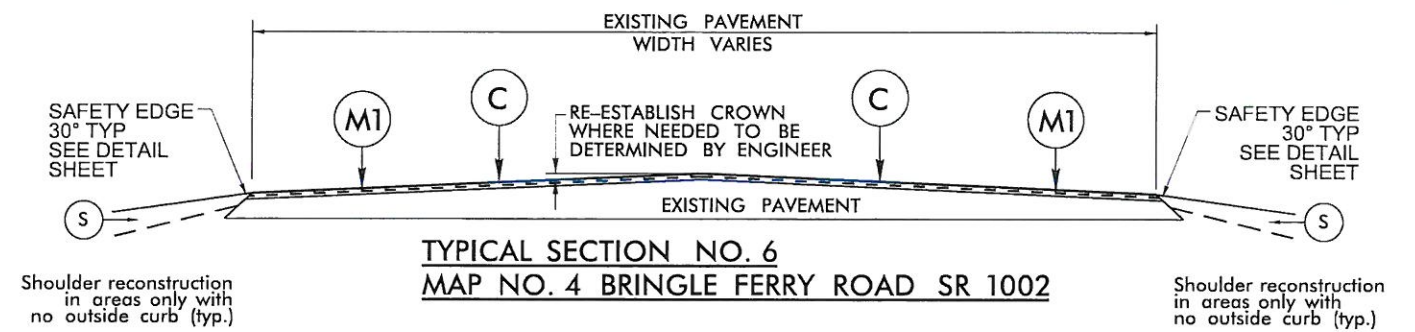
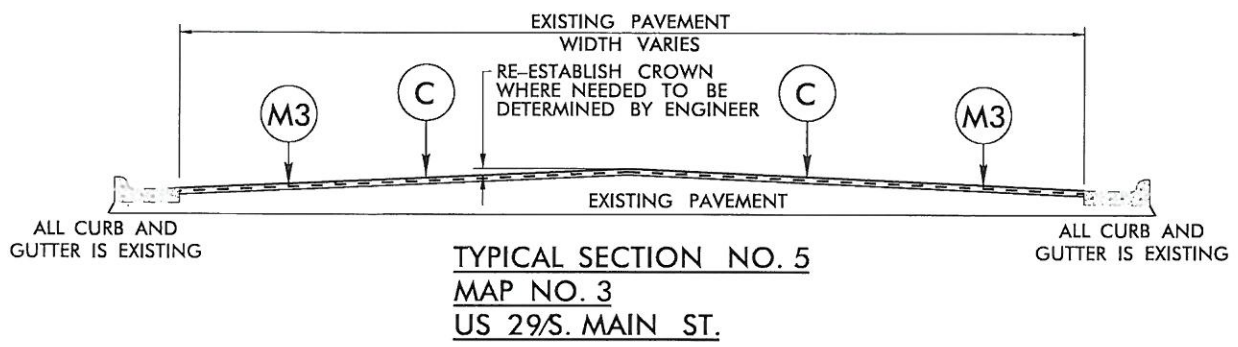
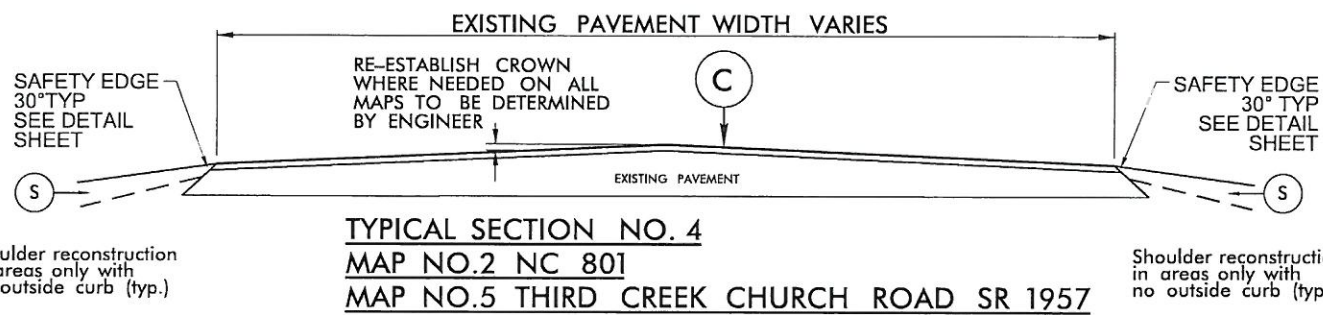
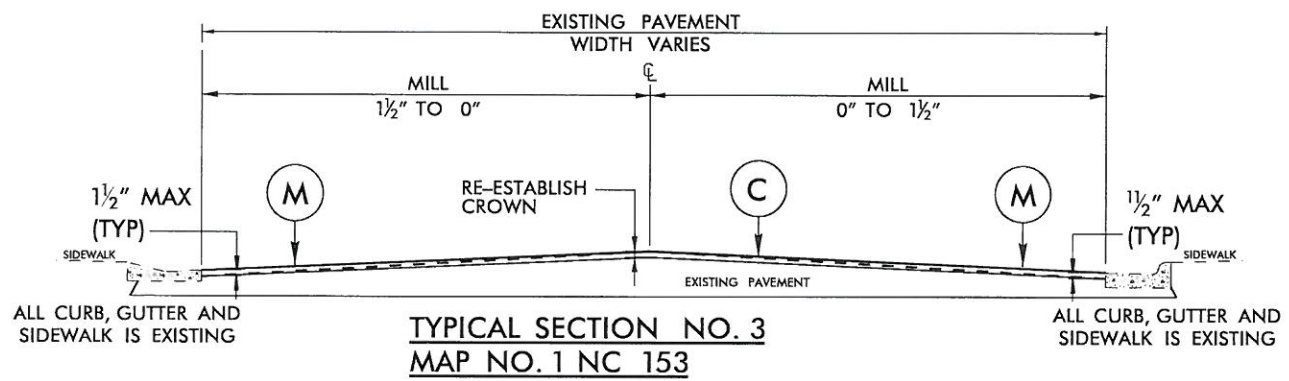
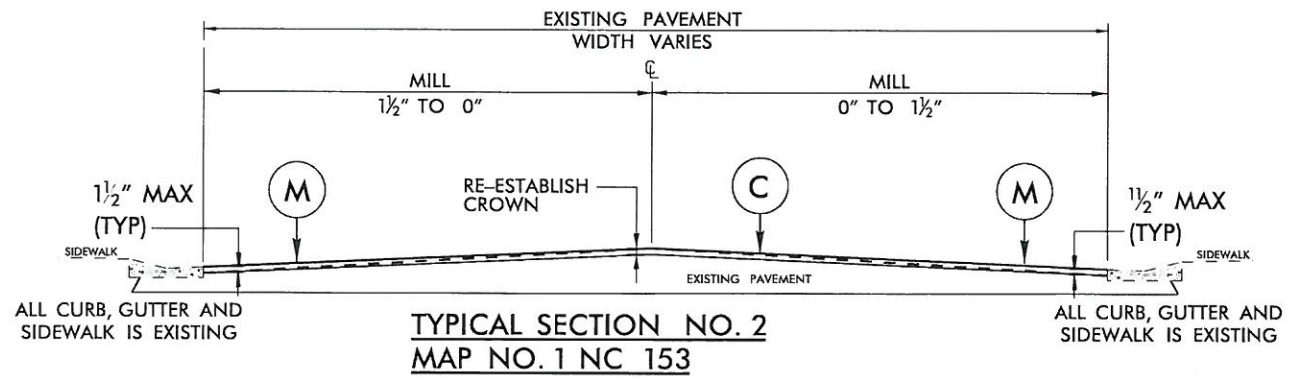
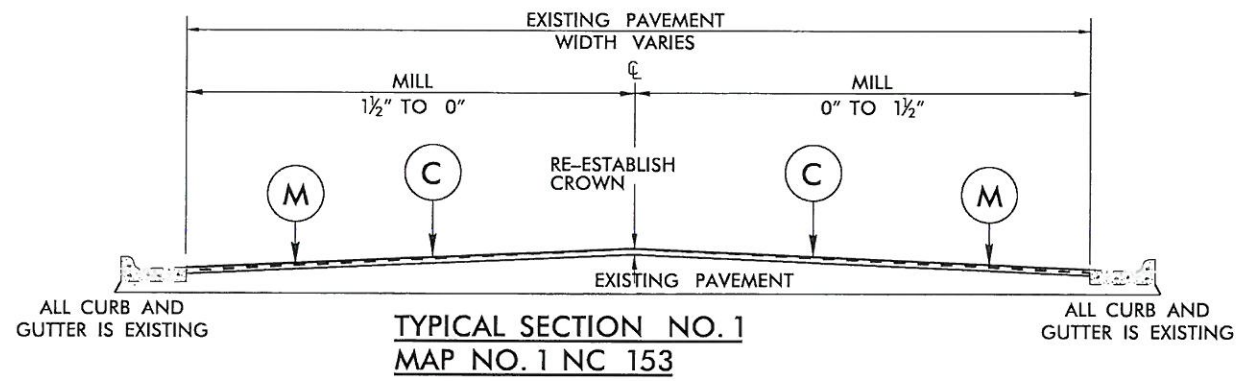
MAP 5  
Third Creek Church Rd. SR 1957  
Butt Mill ends of Map.



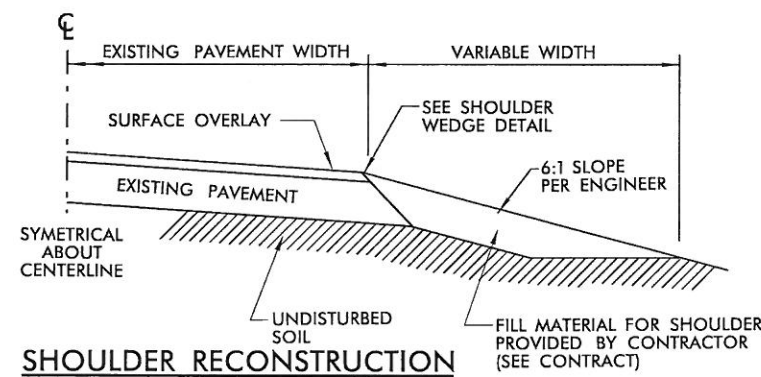
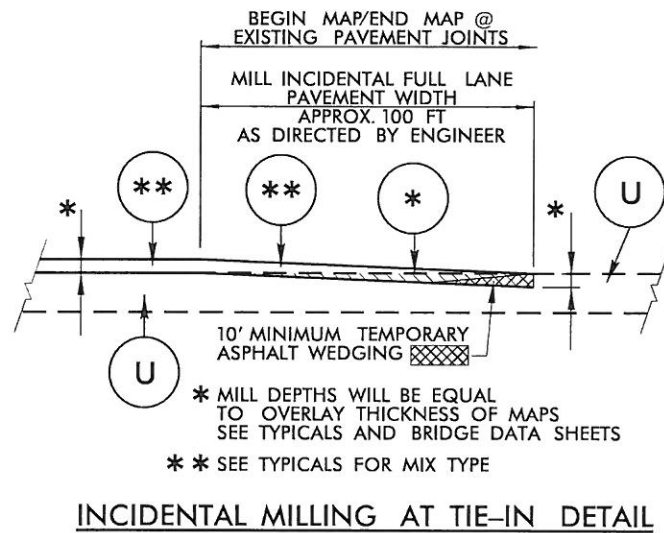
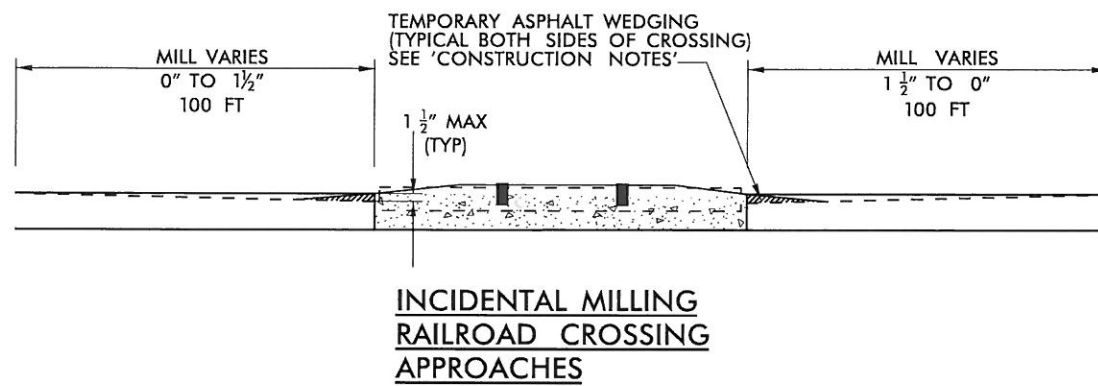
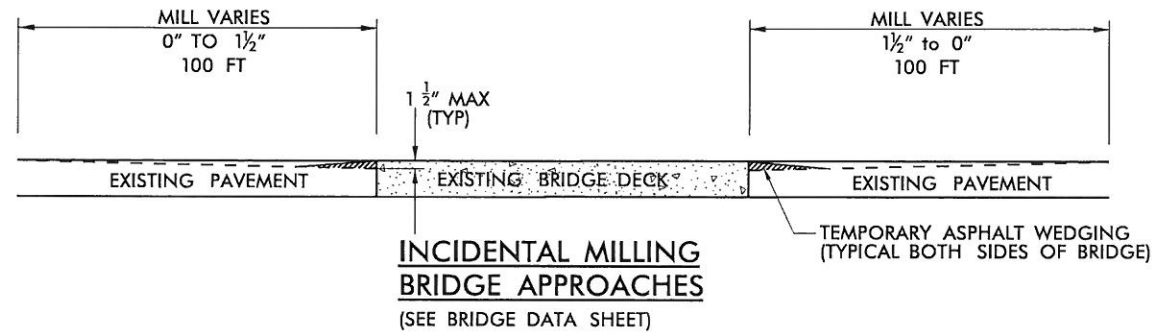
MAP 6  
 Faith Rd. SR 1006  
 Mill 2" Depth full width of pavement  
 Pave back with 1½" S9.5B  
 Tie into Map 6 for a smooth transition.

MAP 7  
 Faith Rd. SR 1006  
 Butt Mill at Jake Alexander Blvd. (SR 1007).  
 Mill and wedge at RxR.  
 AST Single Seal, Then Pave with 1½" S9.5B

**ROWAN COUNTY**  
 NORTH CAROLINA



PAVEMENT SCHEDULE	
C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
F	ASPHALT SURFACE TREATMENT, SINGLE SEAL
M	MILL ASPHALT PAVEMENT, 0 TO 1 1/2" DEPTH
M1	MILL ASPHALT PAVEMENT, 1 1/2" DEPTH
M2	MILL ASPHALT PAVEMENT, 2" DEPTH
M3	MILL ASPHALT PAVEMENT, 3" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT



PAVEMENT SCHEDULE	
C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
F	ASPHALT SURFACE TREATMENT, SINGLE SEAL
M	MILL ASPHALT PAVEMENT, 0 TO 1 1/2" DEPTH
M1	MILL ASPHALT PAVEMENT, 1 1/2" DEPTH
M2	MILL ASPHALT PAVEMENT, 0 TO 3" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT



## 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.

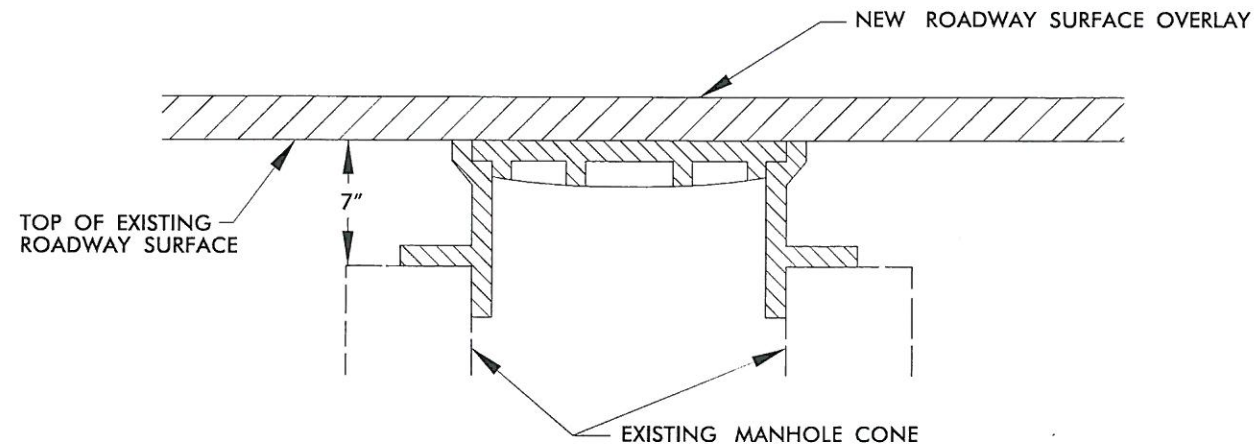
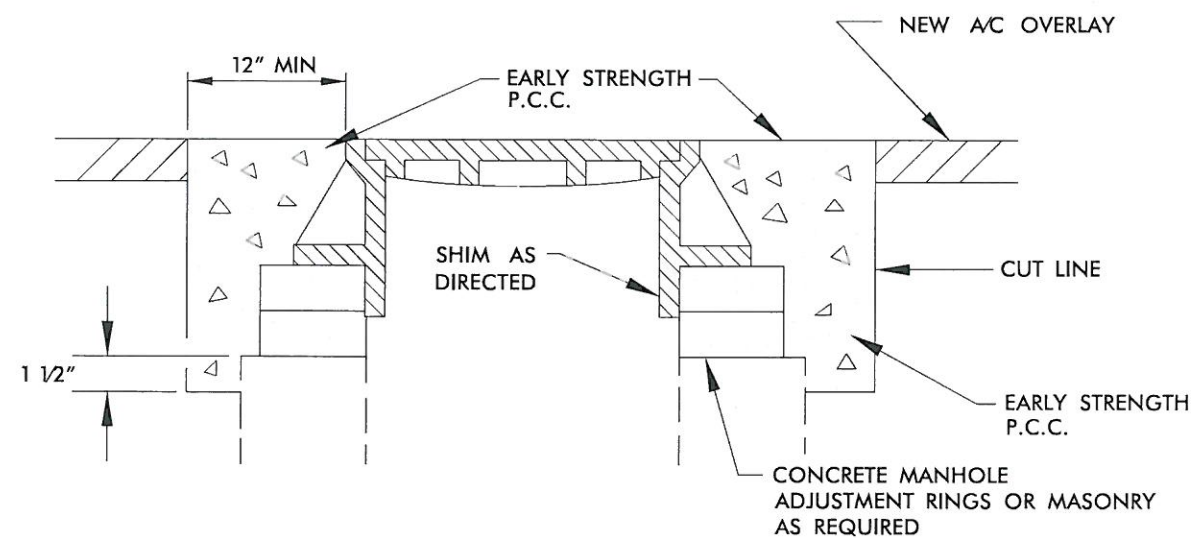
4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).

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.

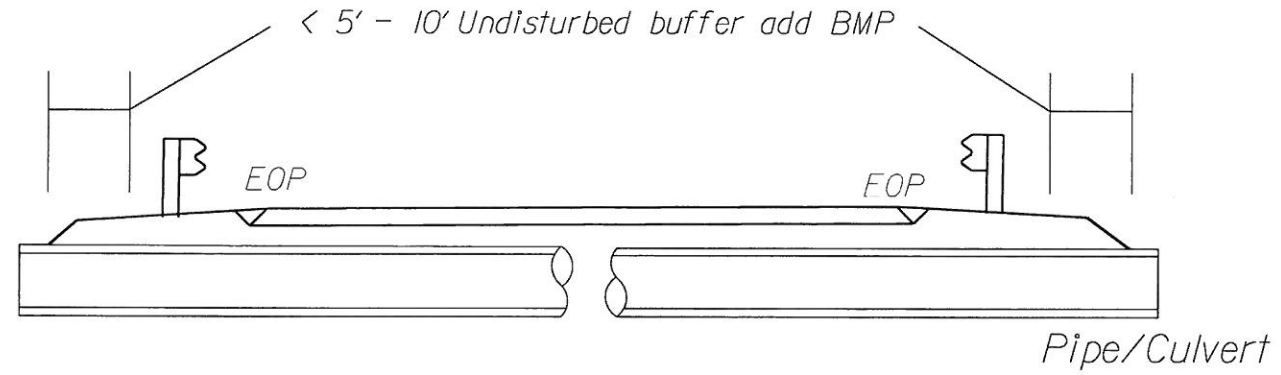
**MANHOLE ADJUSTMENT DETAIL**

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

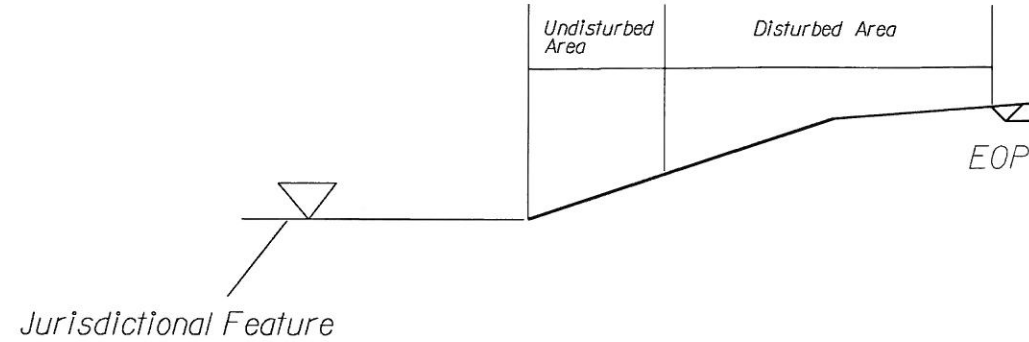
BMP Options: Wattle or Silt Fence

# EROSION CONTROL DETAIL

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.24.10801.1 2016CPT.09.25.20801.1	10

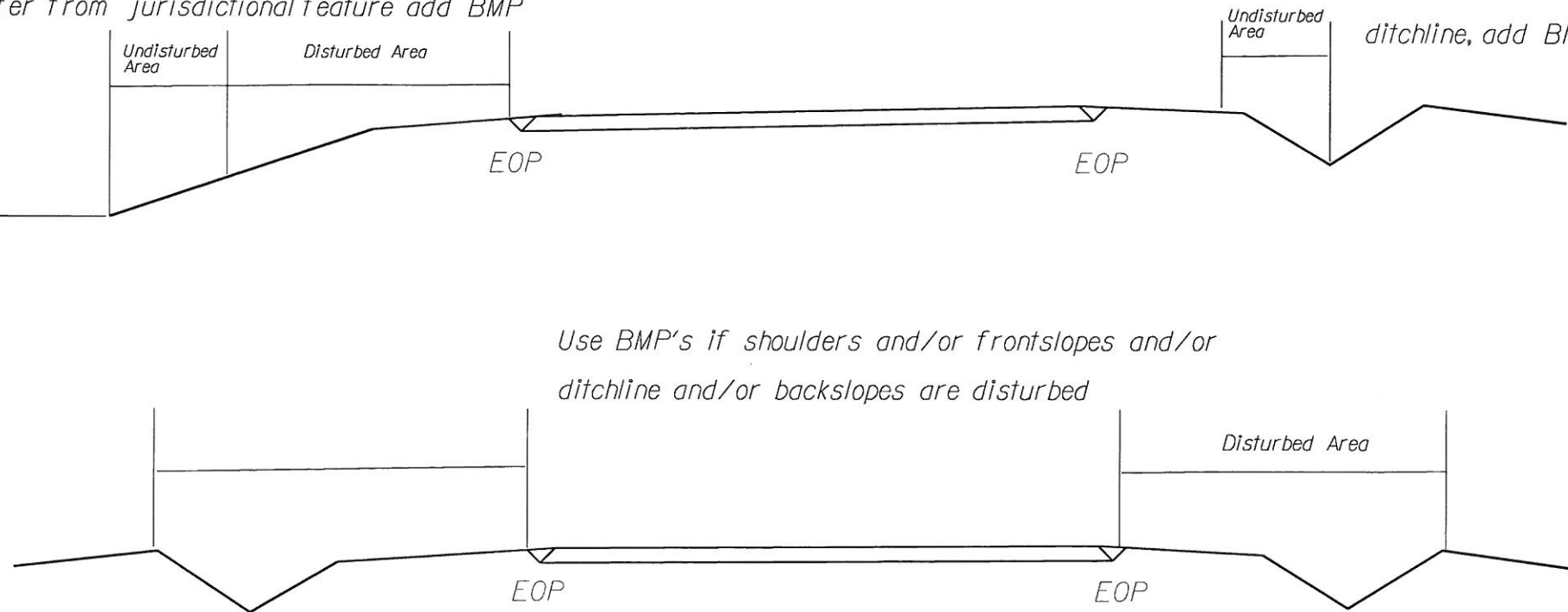


< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

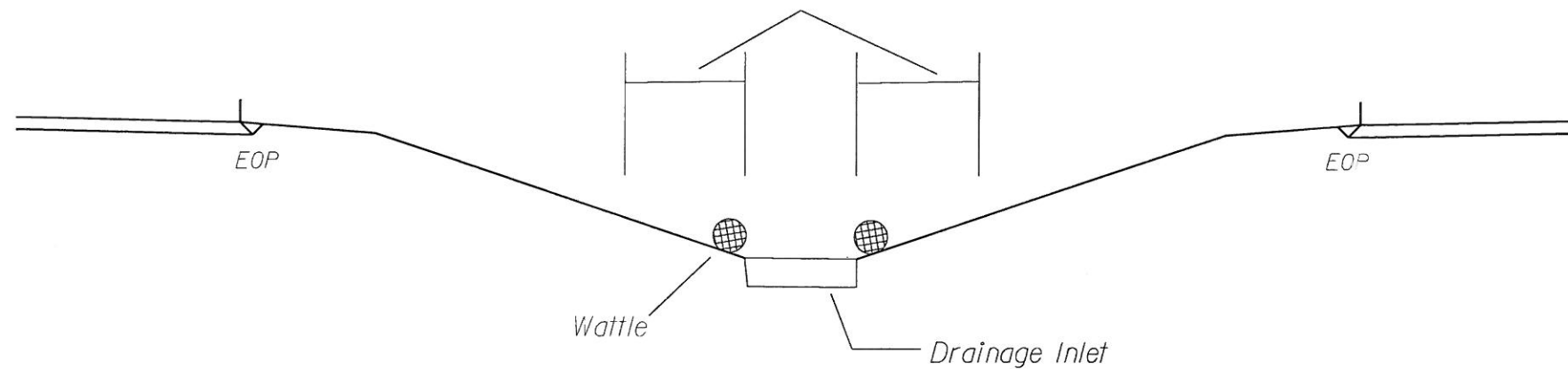


< 5' - 10' Undisturbed buffer from ditchline, add BMP

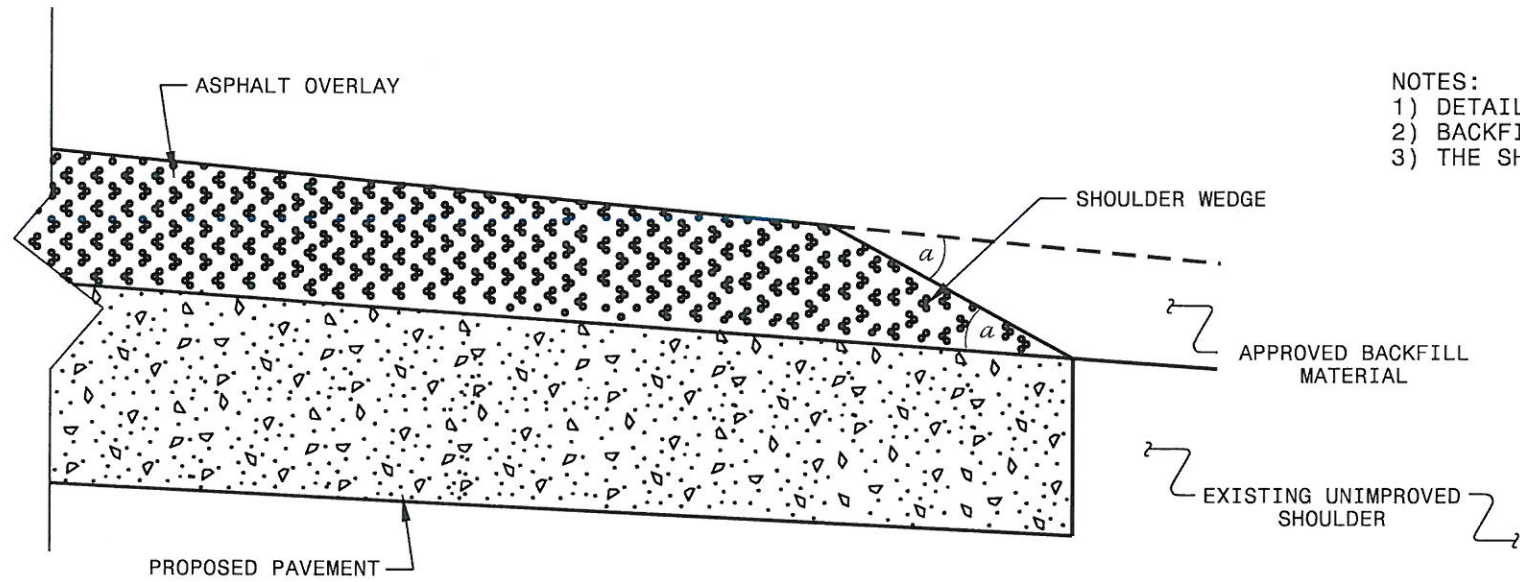
Use BMP's if shoulders and/or front slopes and/or ditchline and/or backslopes are disturbed



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

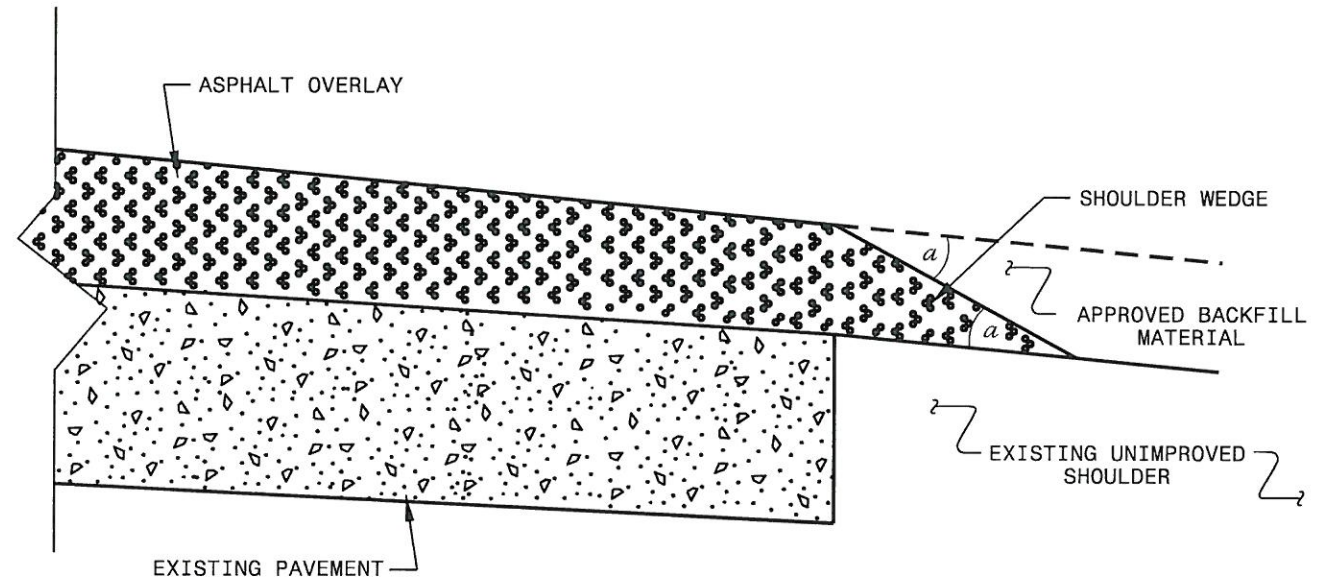


NOT TO SCALE

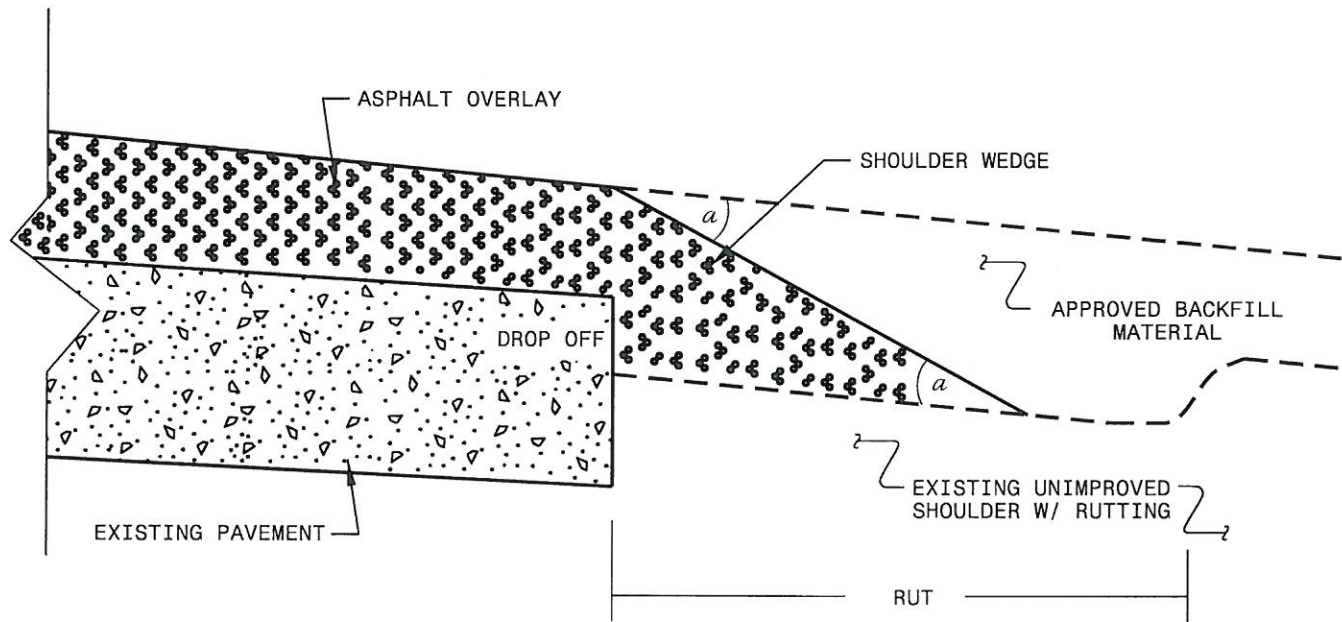


- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

**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			
<b>SHOULDER WEDGE DETAILS</b>			
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			

C:\Users\TSpell\Documents\2017\_Resurfacing\ROWAN\_REVISED\_2-2-16\_Shoulder Wedge Detail.dgn  
 10/16/12  
 T.SPELL

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.09.24.10801.1,	12	
2016CPT.09.25.20801.1		

### SUMMARY OF QUANTITIES

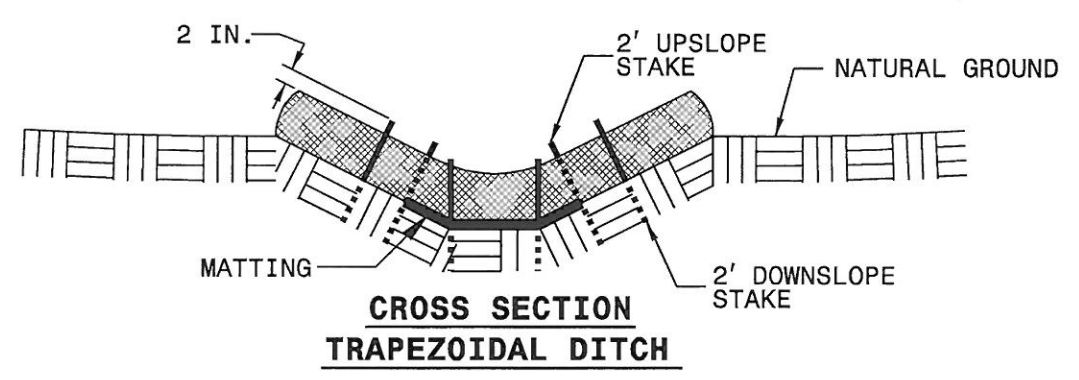
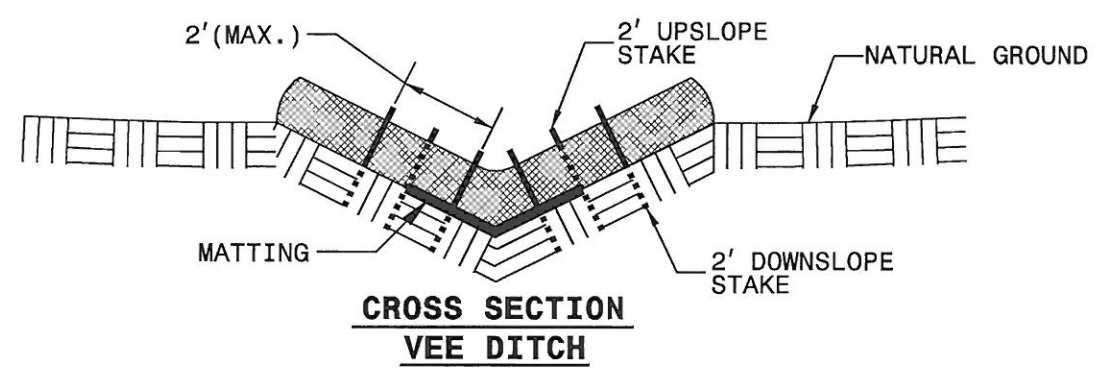
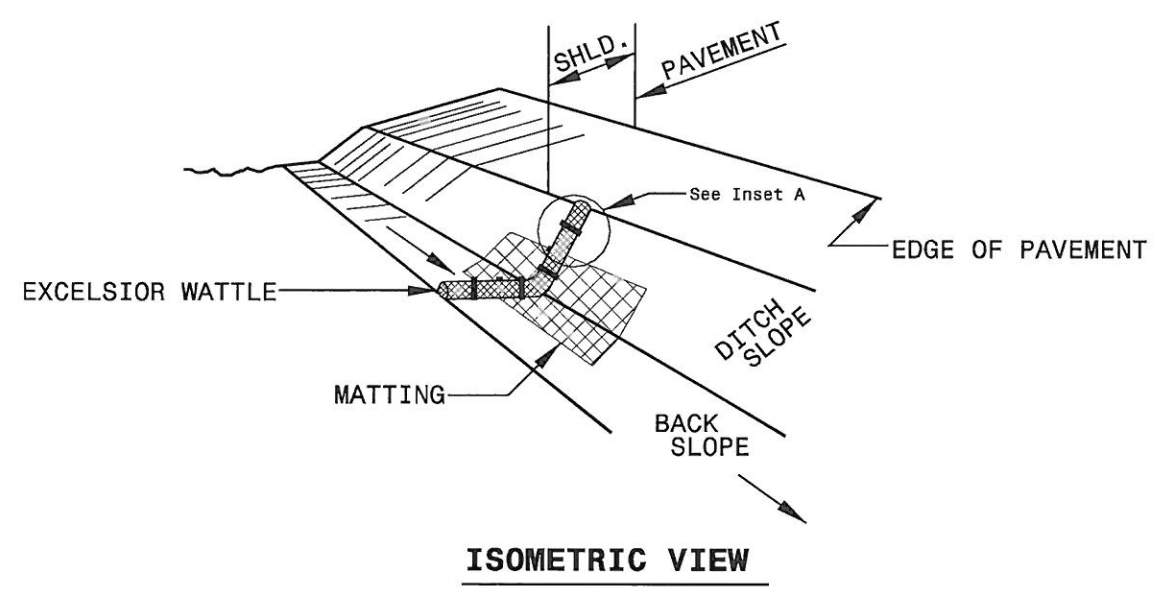
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	MILLING ASPHALT PAVEMENT, 3"DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2"DEPTH SY	MILLING ASPHALT PAVEMENT, 2"DEPTH SY	MILLING ASPHALT PAVEMENT, 0"TO 1 1/2" DEPTH SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.58 TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, SINGLE SEAL SY	EMULSION FOR ASPHALT SURFACE TREATMENT GAL	ADJ. OF DROP INLET EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	WATTLE LF	
2016CPT.09.24.10801.1	Rowan	1	NC153	FROM MAIN ST. LANDIS SR 2739 TO PAVEMENT JT. AT END OF CURB	1,2,3	2	MU	NO	NO	0.469	32-36							8,942	722	856	51	20			6	8	4			
TOTAL FOR MAP NO. 1										0.469								8,942	722	856	51	20			6	8	4			
2016CPT.09.24.10801.1	Rowan	2	NC 801	FROM PAVEMENT JT. AT BEAR POPLAR RD. SR 1743 TO PAVEMENT JT. AT CENTENARY CHURCH RD. SR 1753	4	2	2WU	NO	NO	3.46	23	415	180	6.92					511	4,416	265	602							1,384	138
TOTAL FOR MAP NO. 2										3.46		415	180	6.92					511	4,416	265	602							1,384	138
2016CPT.09.24.10801.1	Rowan	3	US 29 S. MAIN ST.	FROM STOP BAR WEST OF KLUMAC RD. SR 2541 THROUGH INTERSECTION TO STOP BAR AT HORAH ST.	5	2	MU	NO	NO	1.042	35-50				24,590					2,279	137				14	24	11			
TOTAL FOR MAP NO. 3										1.042					24,590					2,279	137				14	24	11			
TOTAL FOR PROJ NO. 2017CPT.09.07.10801.1										4.971		415	180	6.92	24,590			8,942	1,233	7,551	453	622			20	32	15	1,384	138	
2016CPT.09.25.20801.1	Rowan	4	BRINGLE FERRY ROAD SR 1002	FROM PROVIDENCE CHURCH RD. SR 2134 THROUGH INTERSECTION OF UNION CHURCH RD. SR 2132	6	2	2WU	NO	NO	1.942	27	233		3.88		30,761				2,856	171								777	78
TOTAL FOR MAP NO. 4										1.942		233		3.88		30,761				2,856	171								777	78
2016CPT.09.25.20801.1	Rowan	5	THIRD CREEK CHURCH RD. SR 1957	FROM PAVEMENT JT. NEAR CLEVELAND CITY LIMITS TO W. MAIN ST. SR 1957/MAPLE ST.	4	2	2WU	NO	NO	0.622	19-21	75	60	1.24					444	679	41	62				1	1	249	25	
TOTAL FOR MAP NO. 5										0.622		75	60	1.24					444	679	41	62				1	1	249	25	
2016CPT.09.25.20801.1	Rowan	6	FAITH ROAD SR1006	FROM FAITH CITY LIMITS NEAR DEAL ST./RAINEY RD. SR 2316 TO FINK ST.	7,8	2	2WU	NO	NO	0.822	24	48	18	0.46			12,385		267	1,150	69				11		4	162	16	
TOTAL FOR MAP NO. 6										0.822		48	18	0.46			12,385		267	1,150	69				11		4	162	16	
2016CPT.09.25.20801.1	Rowan	7	FAITH ROAD SR1006	FROM FINK ST. TO JAKE ALEXANDER BLVD. SR 1007	9	2	2WU	NO	NO	3.763	24-33	452	333	7.53					1,684	5,183	311			55,814	30,698			1,505	151	
TOTAL FOR MAP NO. 7										3.763		452	333	7.53					1,684	5,183	311			55,814	30,698			1,505	151	
TOTAL FOR PROJ NO. 2017CPT.09.08.20801.1										7.149		808	411	13.11		30,761	12,385	2,395	9,868	592	62			55,814	30,698	11	1	5	2,693	270
GRAND TOTAL										12.12		1,223	591	20.03	24,590	30,761	12,385	8,942	3,628	17,419	1,045	684		55,814	30,698	31	33	20	4,077	408





PROJECT REFERENCE NO. X-XXXX	SHEET NO. EC-26
RWY SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# 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.

