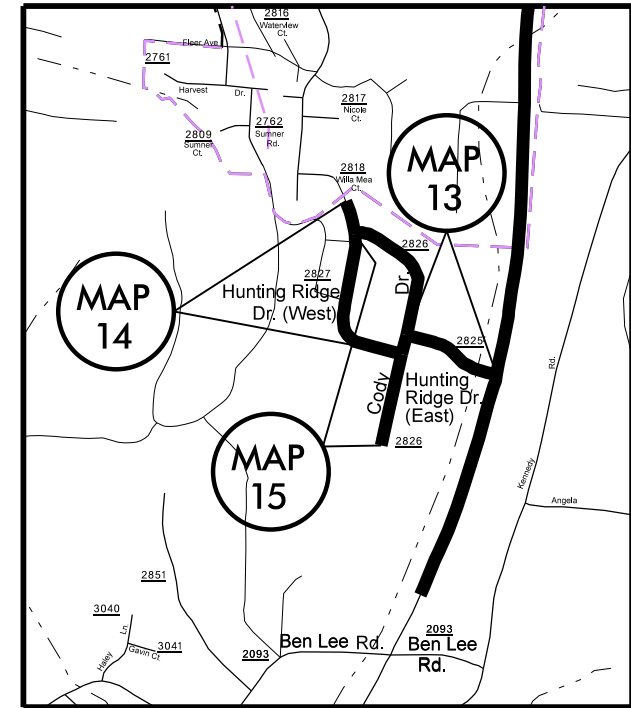
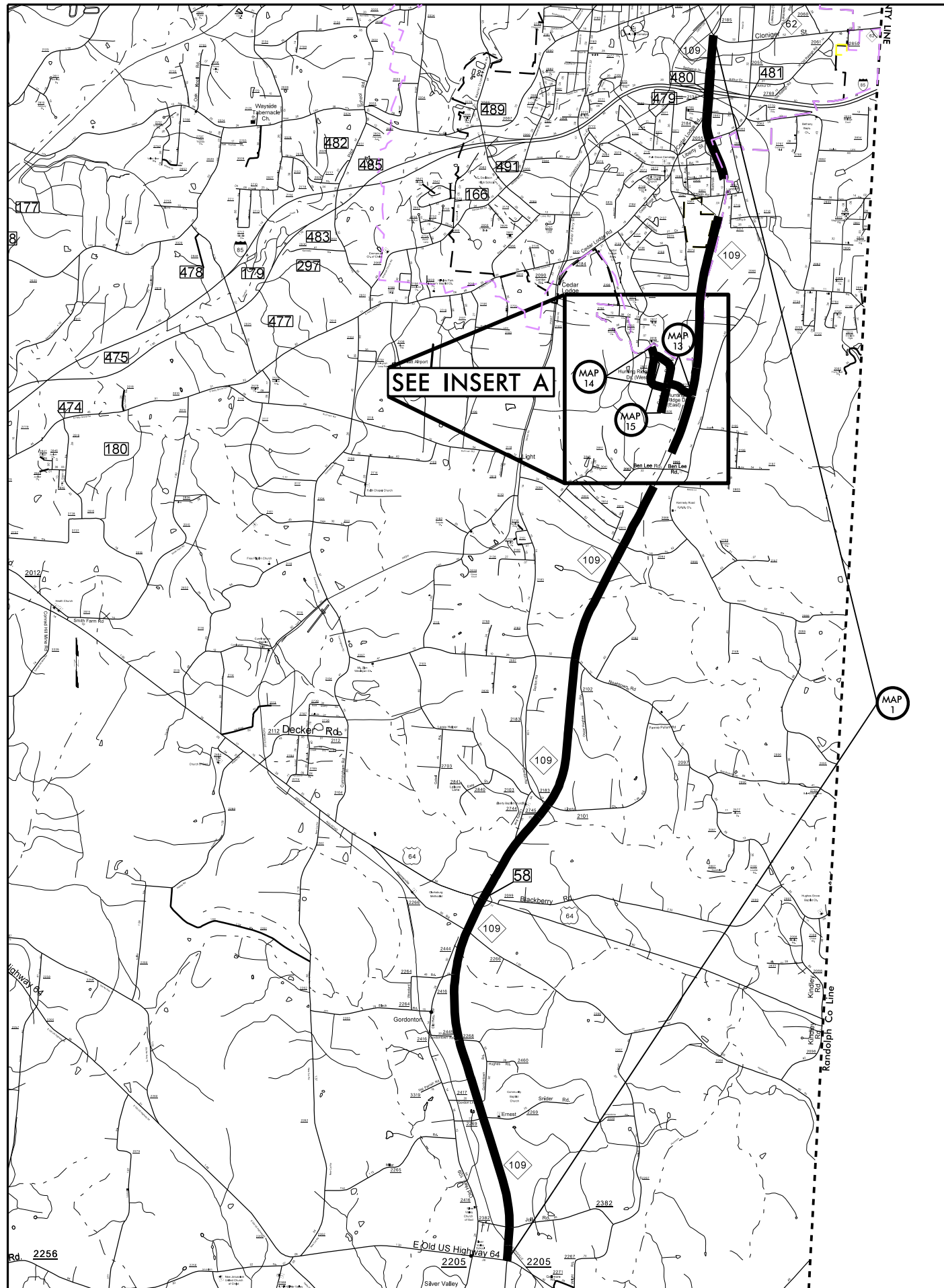


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SEE INSERT A

MAP 1  
 NC 109  
 Mill 2" depth full width of pavement.  
 Pave back with 2" S9.5C

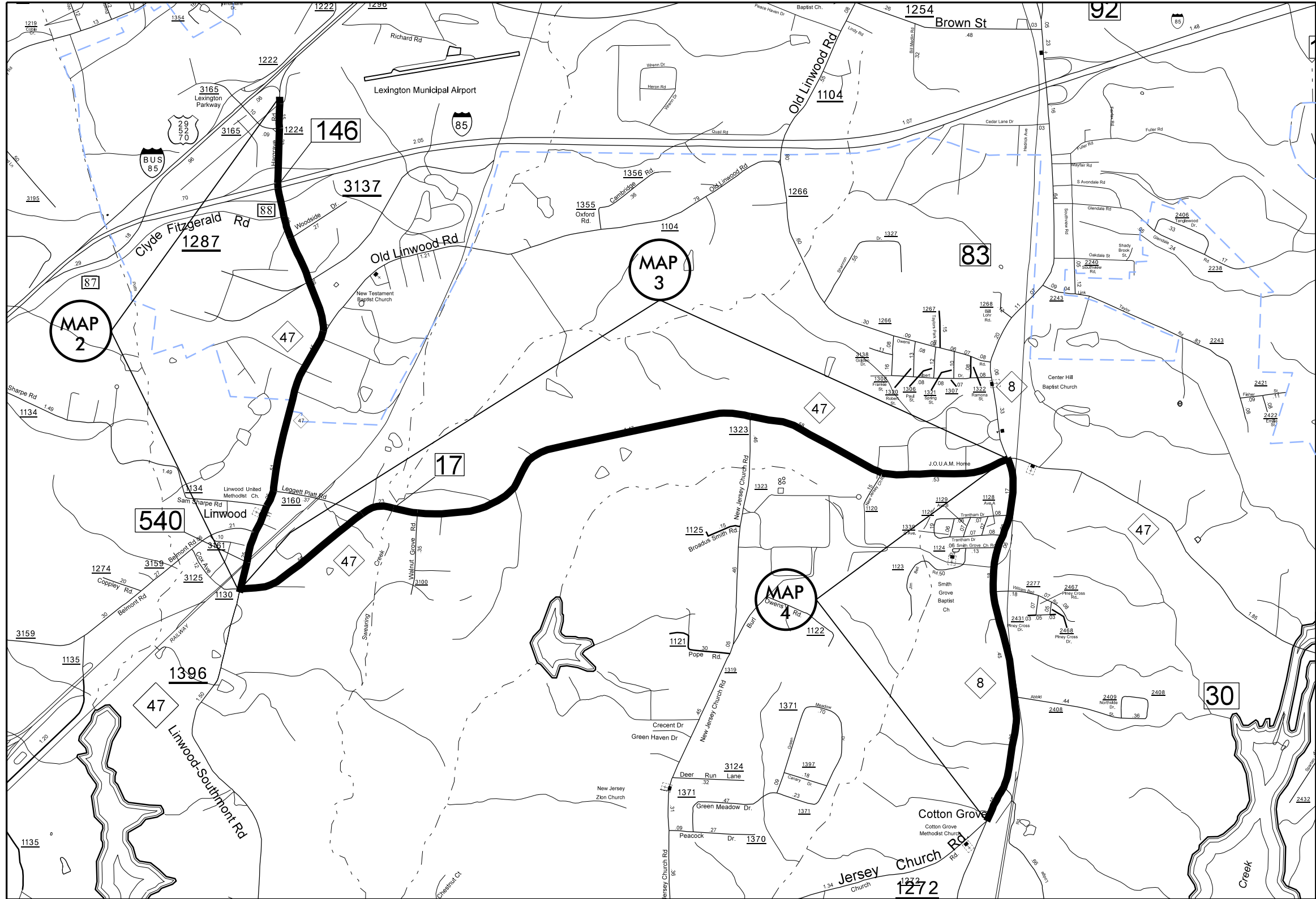
Note:  
 DO NOT PAVE THROUGH INTERSECTIONS  
 of Lambeth Rd. SR 2067 and Ben Lee Rd.  
 SR 2093.  
 Tie into new resurfacing at new turn  
 lanes of Lambeth Rd. SR 2067 and  
 Ben Lee Rd. SR 2093.

Map 13 E. Hunting Ridge Rd. SR 2825  
 TIE INTO NEW PAVEMENT AT EDGE OF  
 PAVEMENT AT NC 109 AND W. Hunting Ridge  
 RD. SR 2827  
 Pave 1 1/2" SF9.5A  
 NO SHOULDER WORK  
 NO PAVEMENT MARKINGS

Map 14 W. Hunting Ridge Rd. SR 2827  
 Pave 1 1/2" SF9.5A  
 NO SHOULDER WORK  
 NO PAVEMENT MARKINGS

Map 15 Cody Dr. SR 2826  
 Pave 1 1/2" SF9.5A  
 NO SHOULDER WORK  
 NO PAVEMENT MARKINGS

**DAVIDSON COUNTY**  
 NORTH CAROLINA

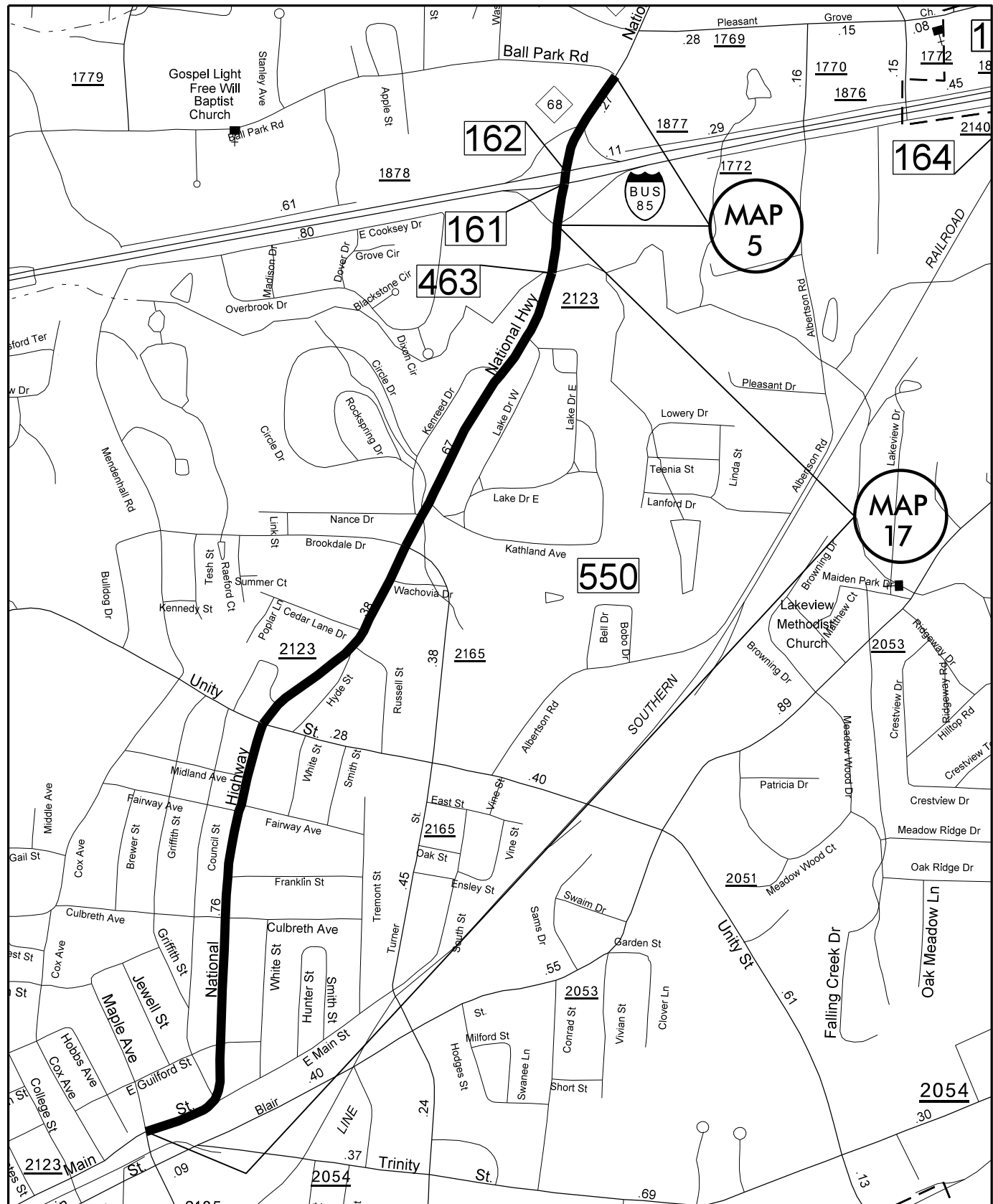


**MAP 2**  
 NC 47  
 Butt Mill end of Map at Concrete Ramp to US52/US29/US70.  
 Mill and patch-  
 Mill 5" Pave back with 5" B25.0B as directed by engineer.  
 Pave 1½" S9.5B  
 Tie into Map 3

**MAP 3**  
 NC 47  
 Butt Mill full width 200 feet from edge of pavement of NC 8.  
 Tie-In Mill to new pavement joint at both sides of New Bridge #17.  
**DO NOT PAVE OVER NEW BRIDGE.**  
 Mill and patch-  
 Mill 5" Pave back with 5" B25.0B  
 Pave 1½" S9.5B  
 Tie into Map 2 and Map 4

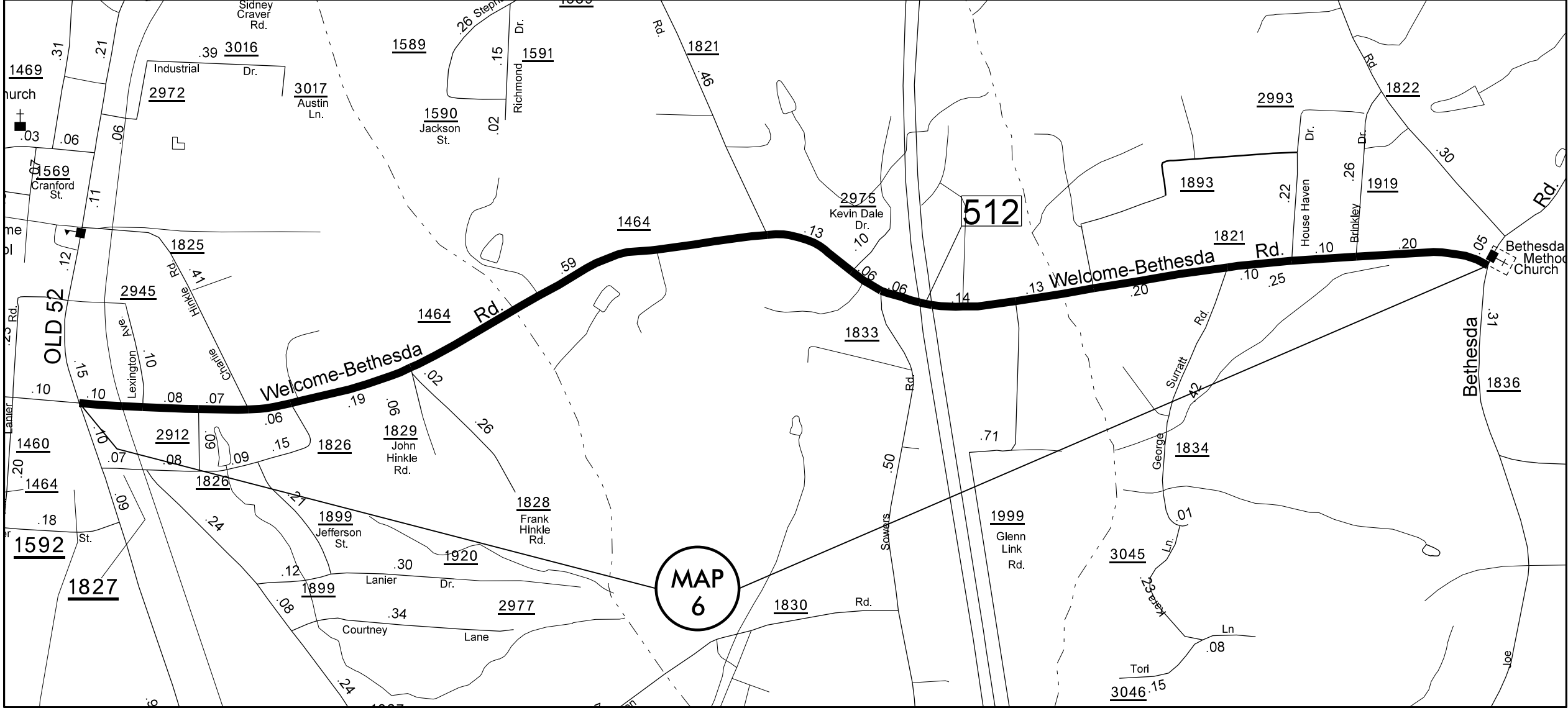
**MAP 4**  
 NC 8  
 Curb Mill 0-1½" depth a 12 foot width  
 Pave 1½" S9.5C  
 Pave to RxR crossing at NC 47 Y-line  
 Tie into Map 3

**DAVIDSON COUNTY**  
 NORTH CAROLINA



MAP 5  
 NC 68 National Highway  
 Mill 1½" depth  
 Pave with 1½" S9.5B

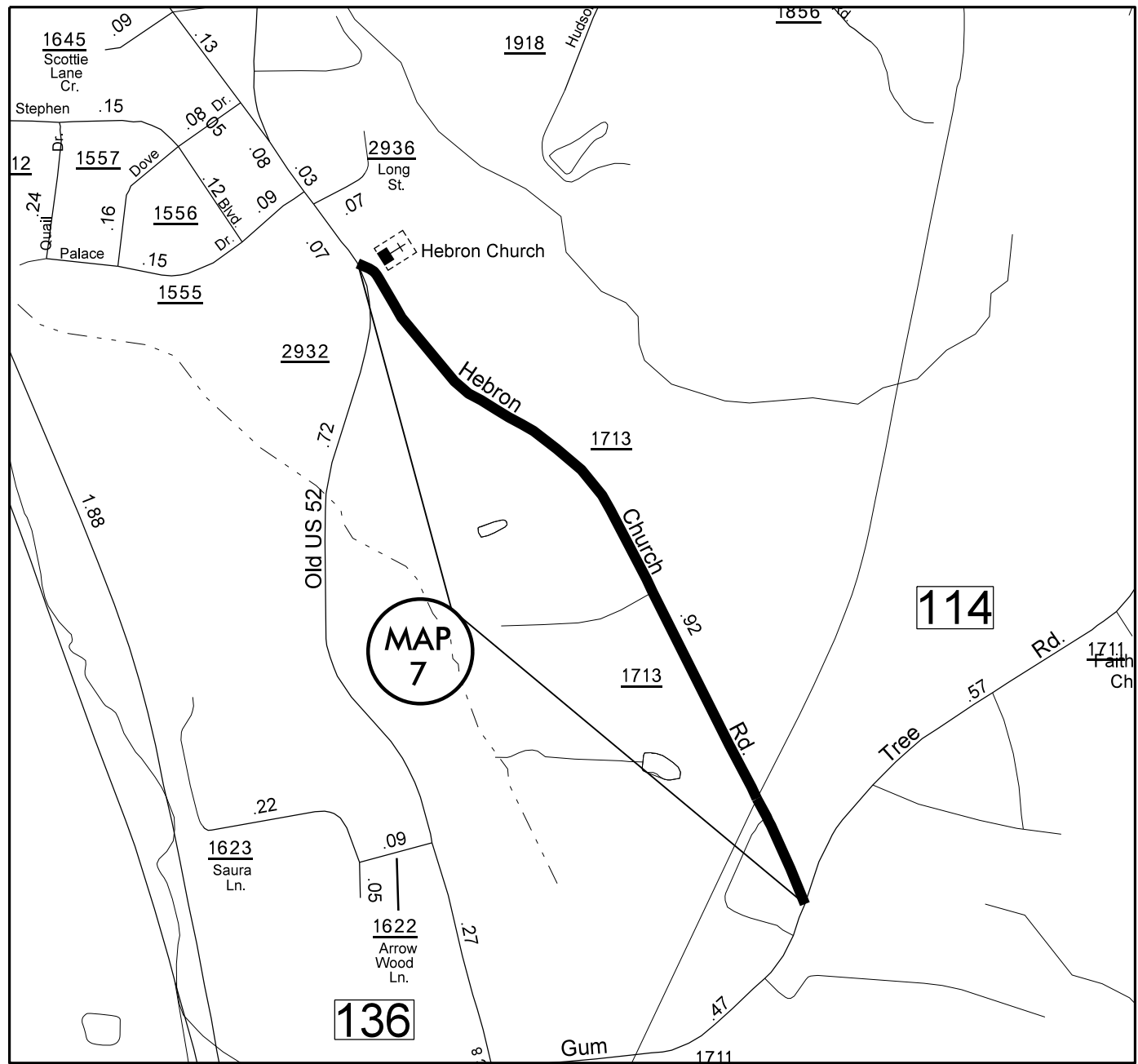
MAP 17  
 National Highway SR 2123  
 Mill 1½" depth  
 Pave with 1½" S9.5B



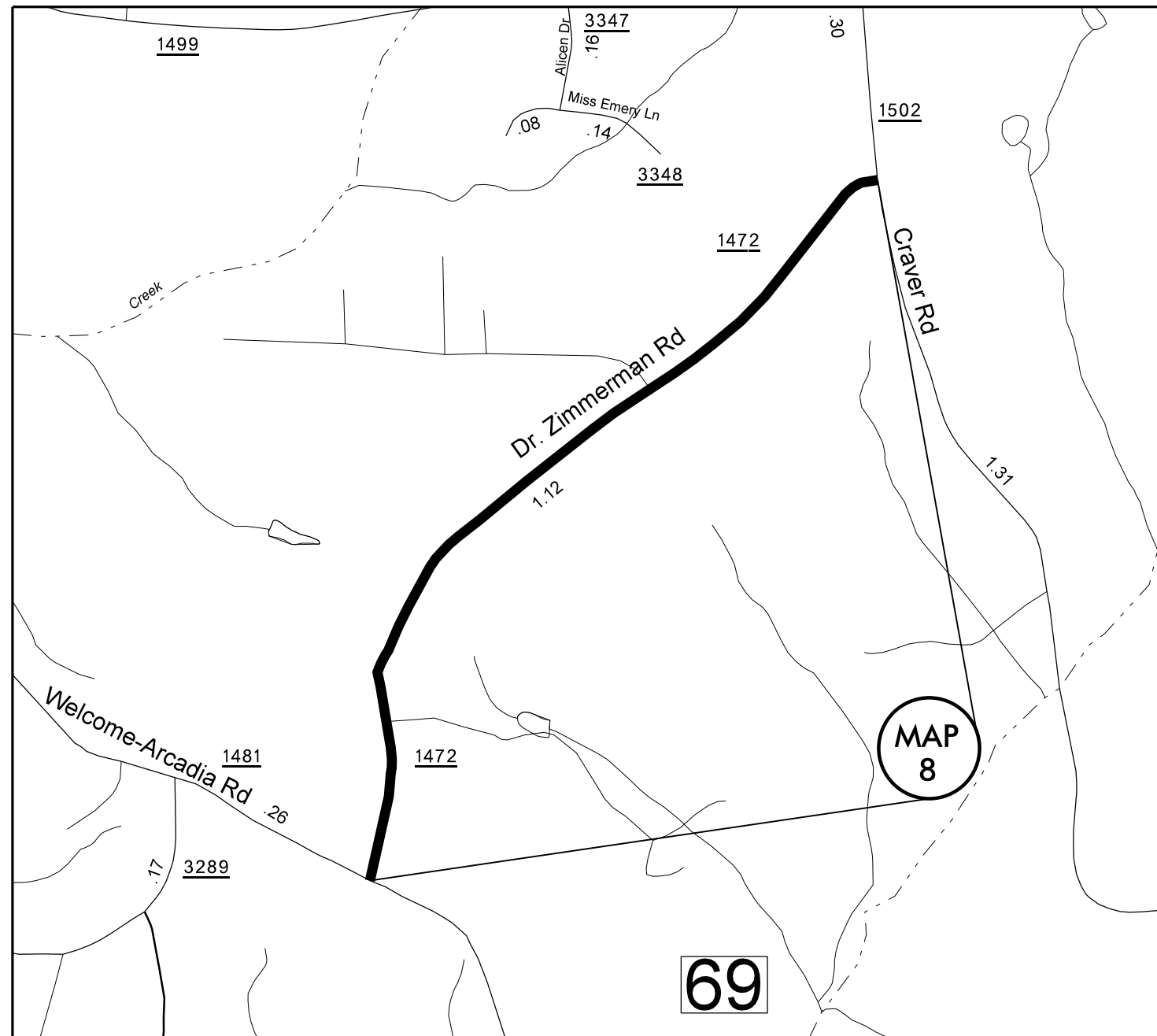
MAP 6  
 Welcome-Bethesda Rd. SR 1464  
 Welcome-Bethesda Rd. SR 1821

Incidental Mill at Map ends and RxR Approach.  
 Pave with 1½" S9.5B

**DAVIDSON COUNTY**  
 NORTH CAROLINA

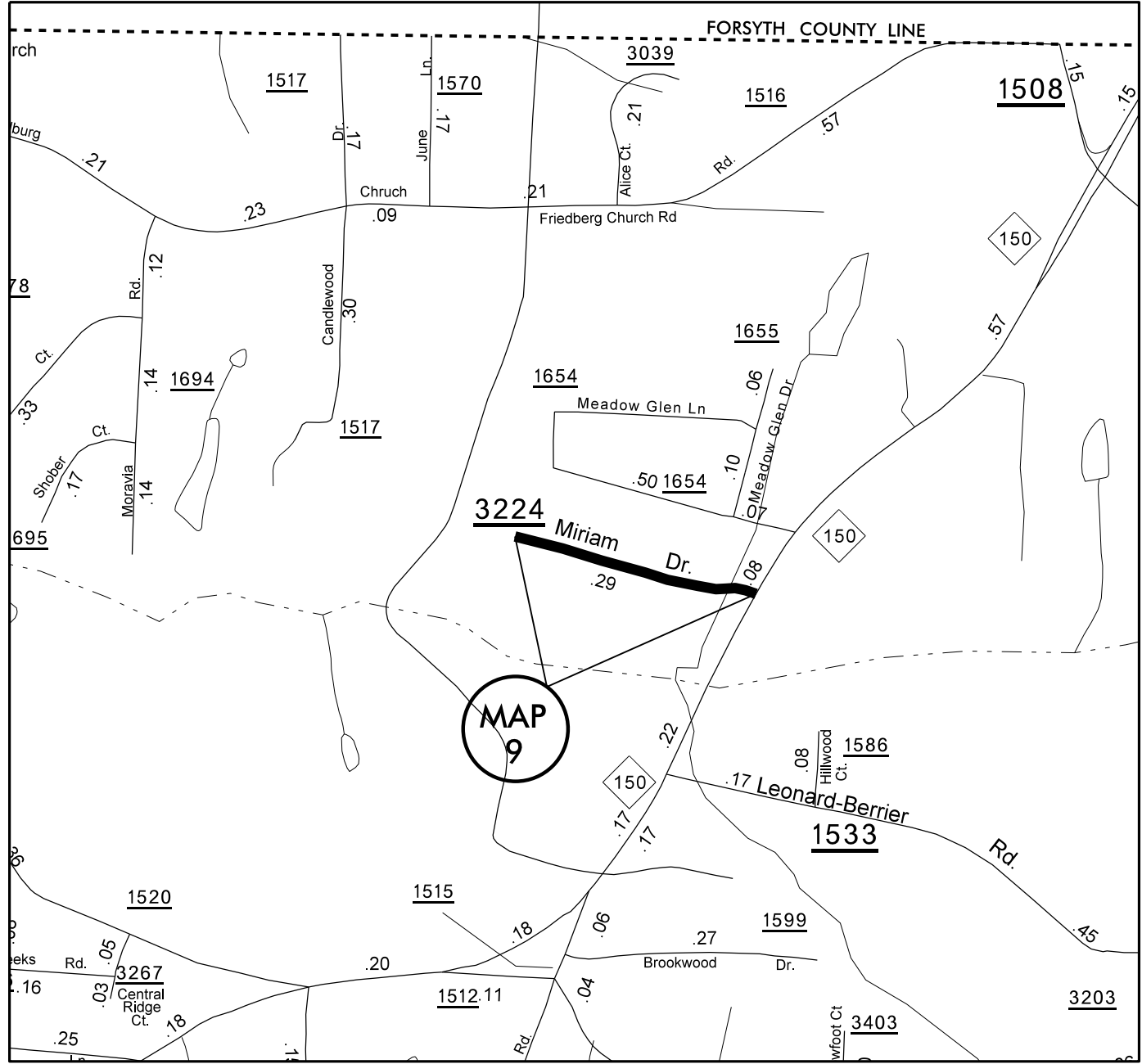


**MAP 7**  
 Hebron Church Rd. SR 1713  
 Asphalt Surface Treatment, Mat & Seal  
 entire Map.  
 Repave entire Map with 1½" SF9.5A  
 NO MILLING Tie into existing at ends of Map.



MAP 8  
Dr. Zimmerman Rd. SR 1472  
Butt Mill ends of Map.  
Pave 1 1/2" SF9.5A

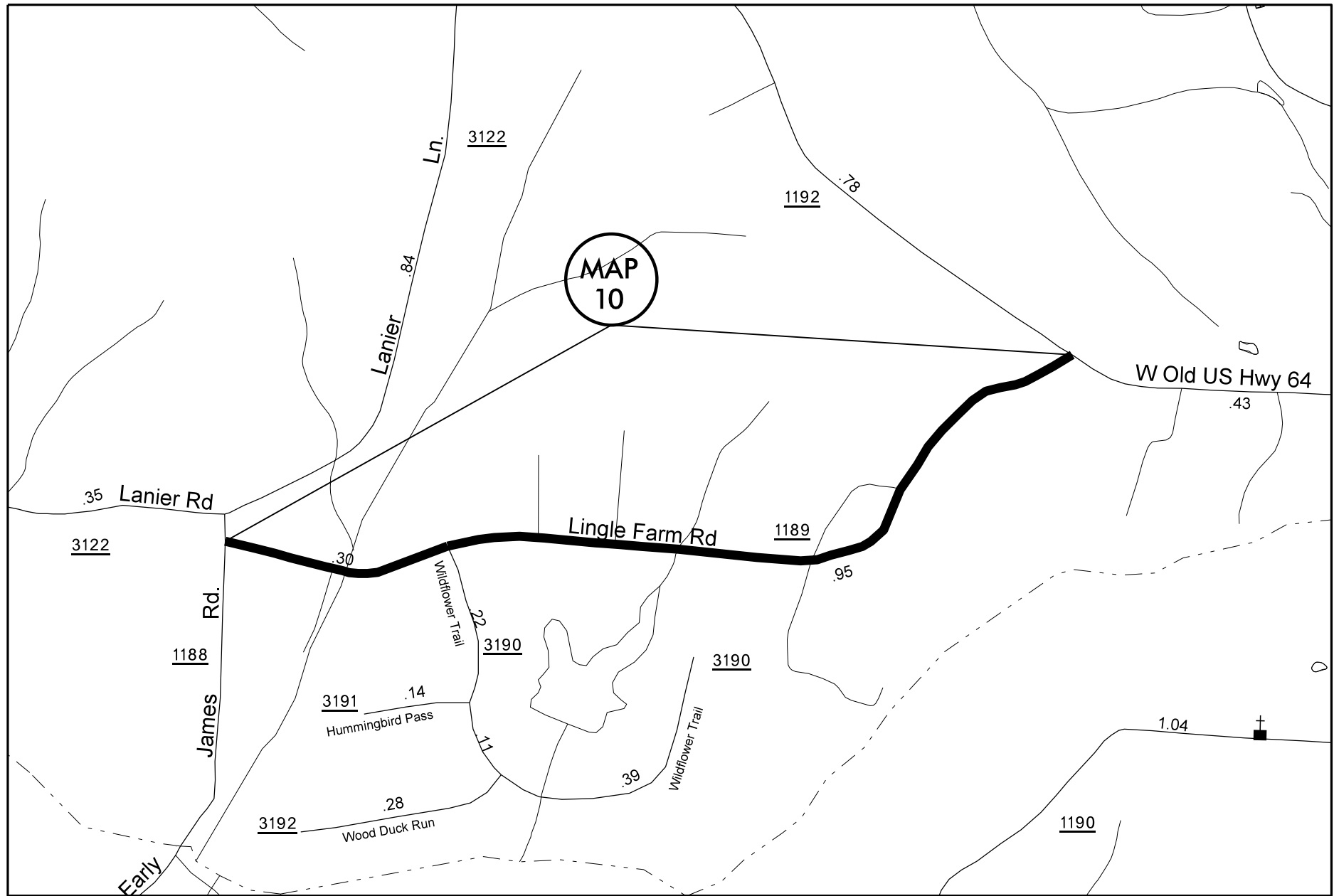
**DAVIDSON COUNTY**  
NORTH CAROLINA



MAP 9  
 Miriam Dr. SR 3224  
 Pave 1½" SF9.5A  
 NO STRIPING  
 NO SHOULDER WORK  
 PATCHING BY NCDOT FORCES

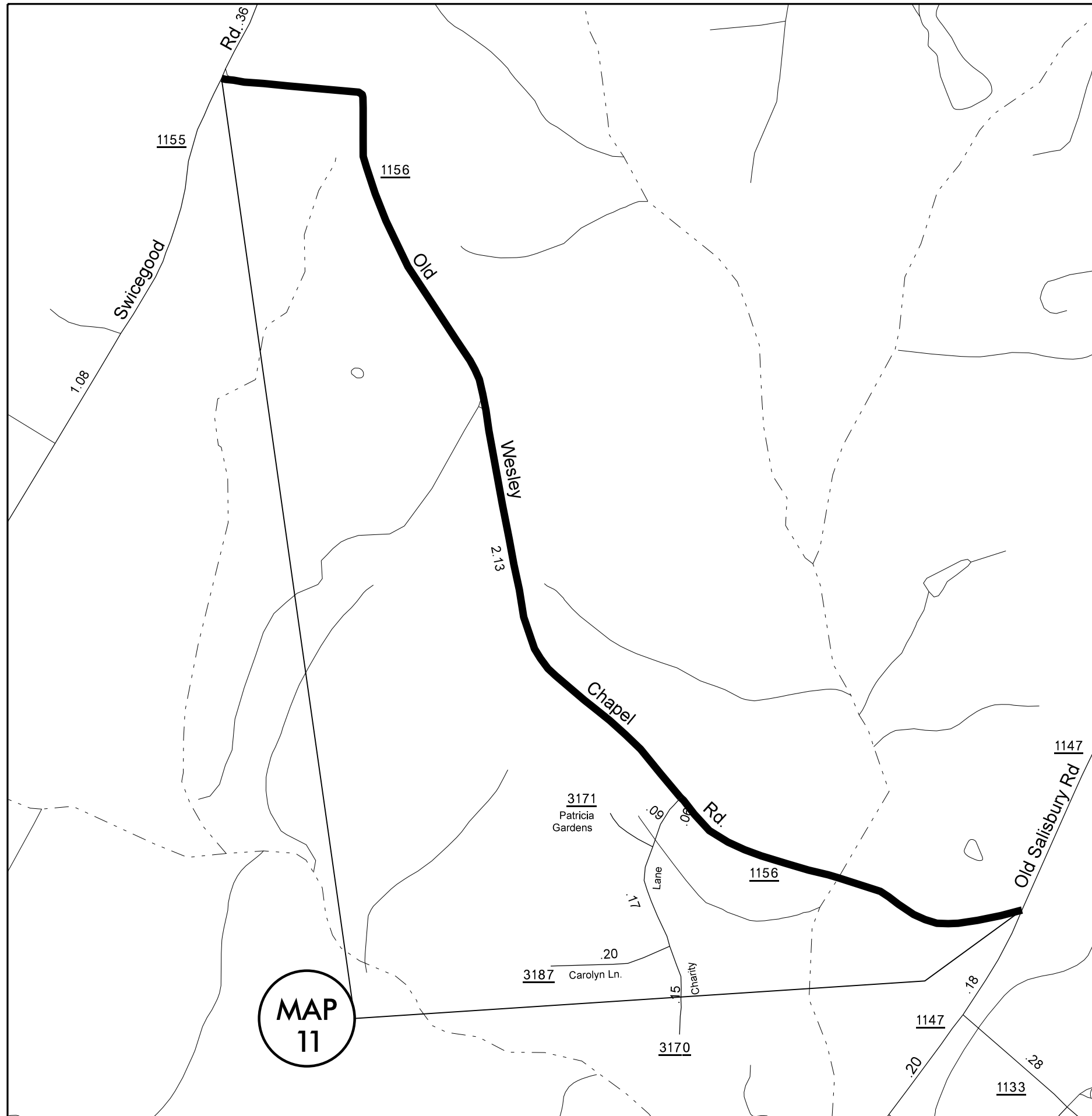
**DAVIDSON COUNTY**  
 NORTH CAROLINA





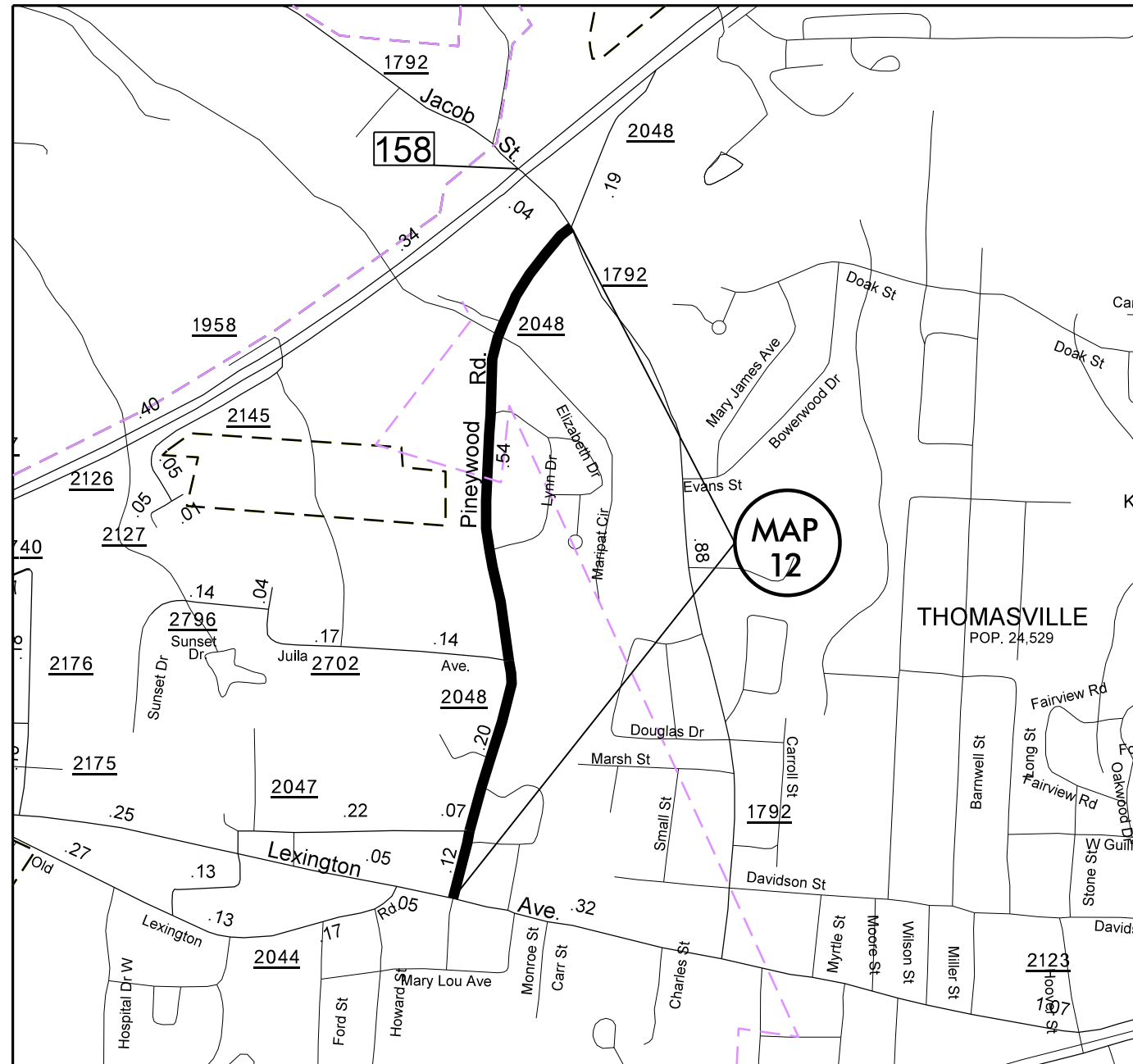
MAP 10  
Lingle Farm Rd. SR 1189  
NO MILLING  
Pave 1 1/2" SF9.5A

**DAVIDSON COUNTY**  
NORTH CAROLINA

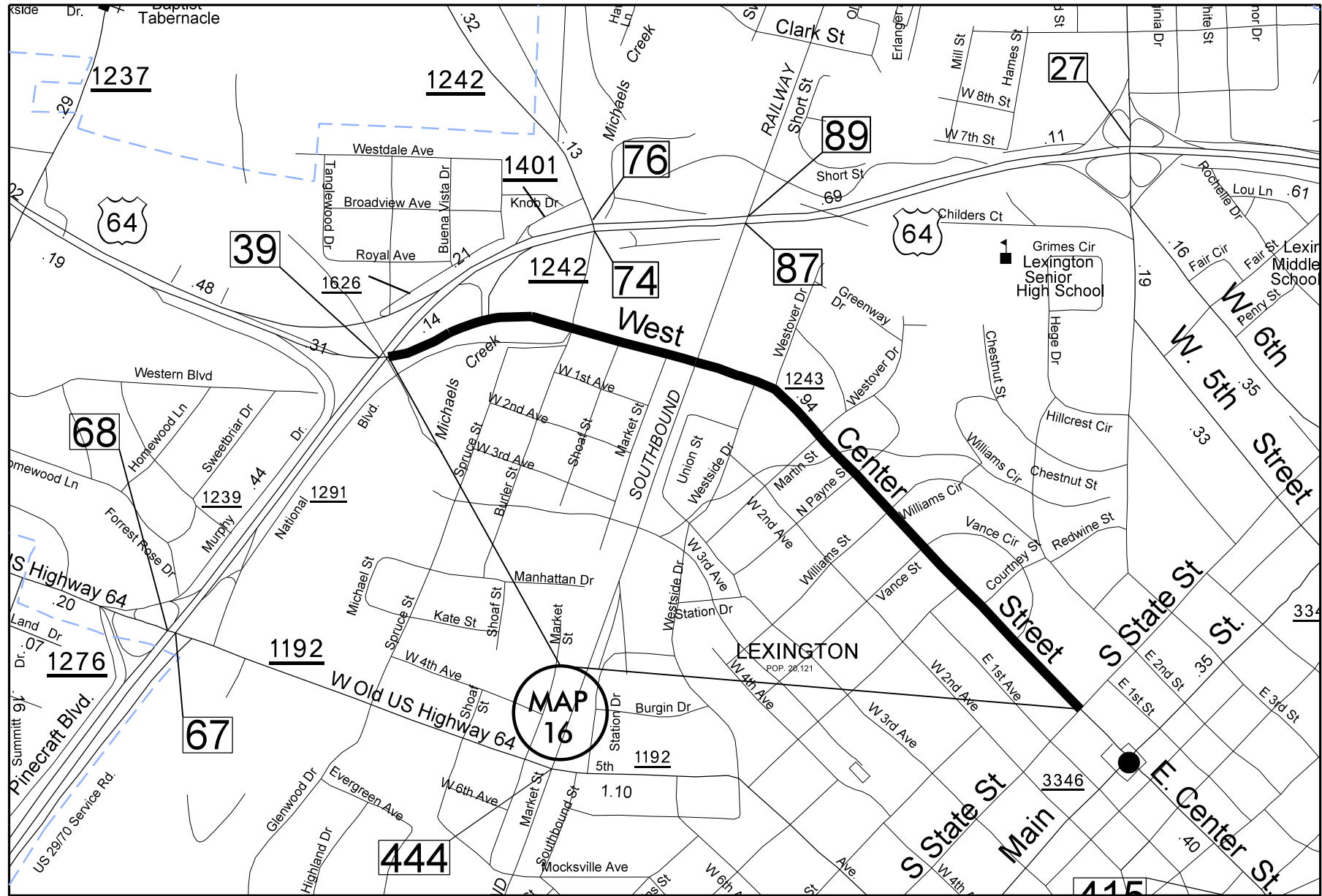


MAP 11  
Wesley Chapel. SR 1156  
NO MILLING TIE INTO EXISTING  
Pave 1½" SF9.5A

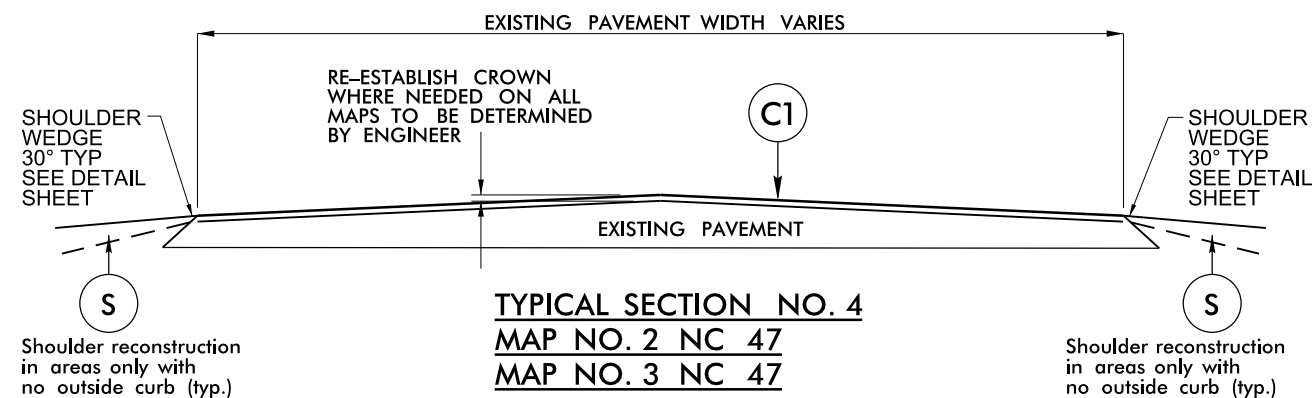
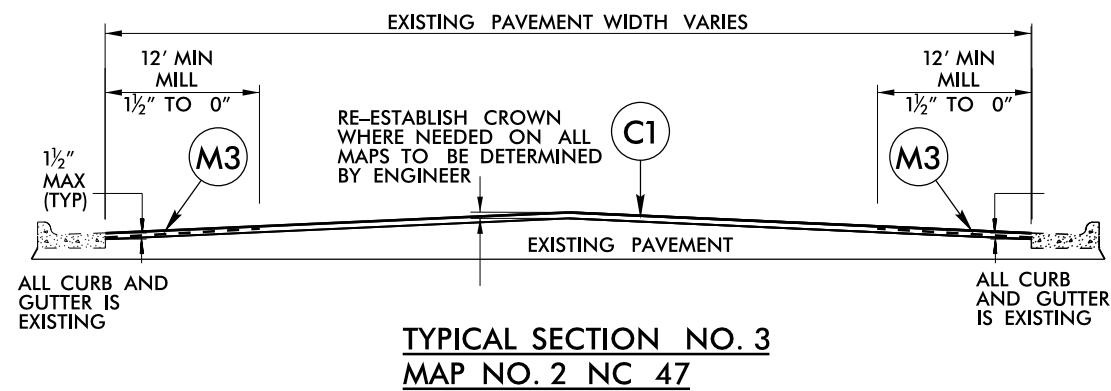
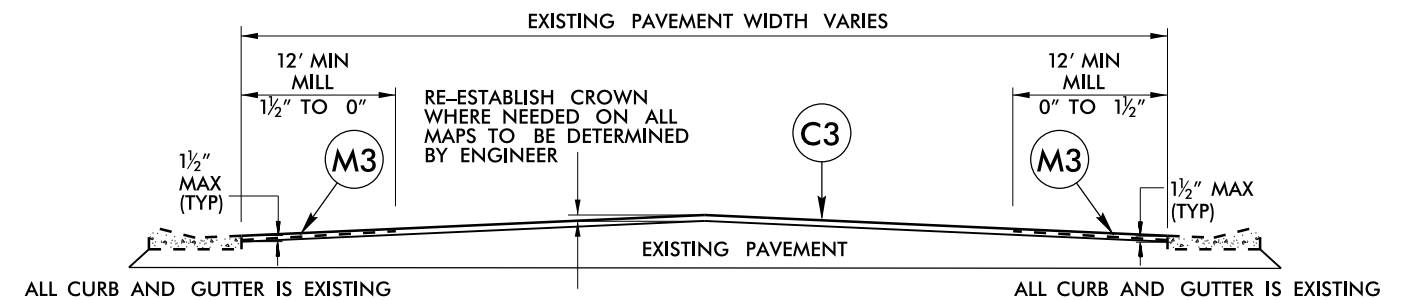
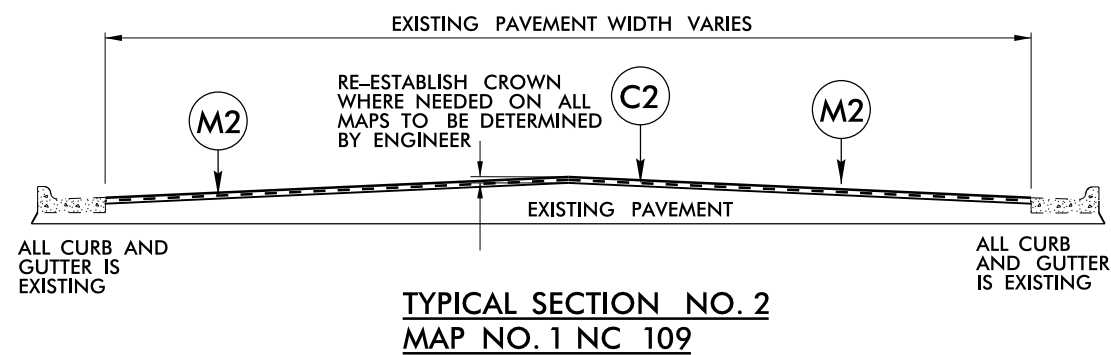
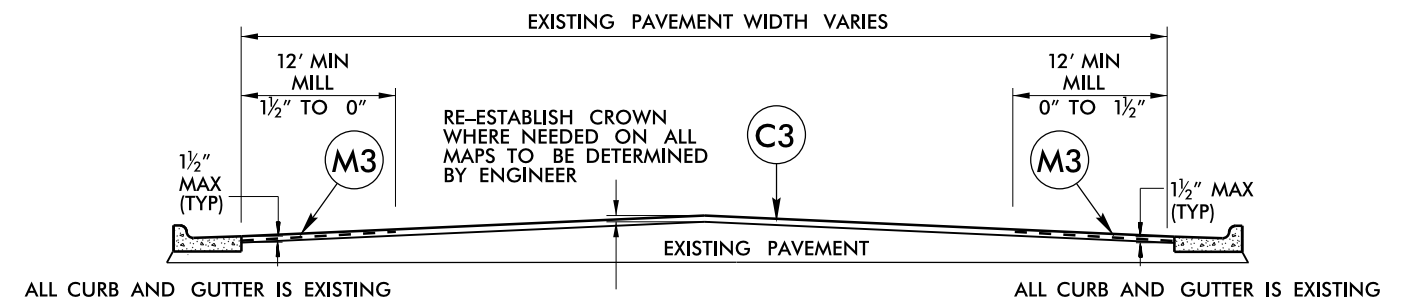
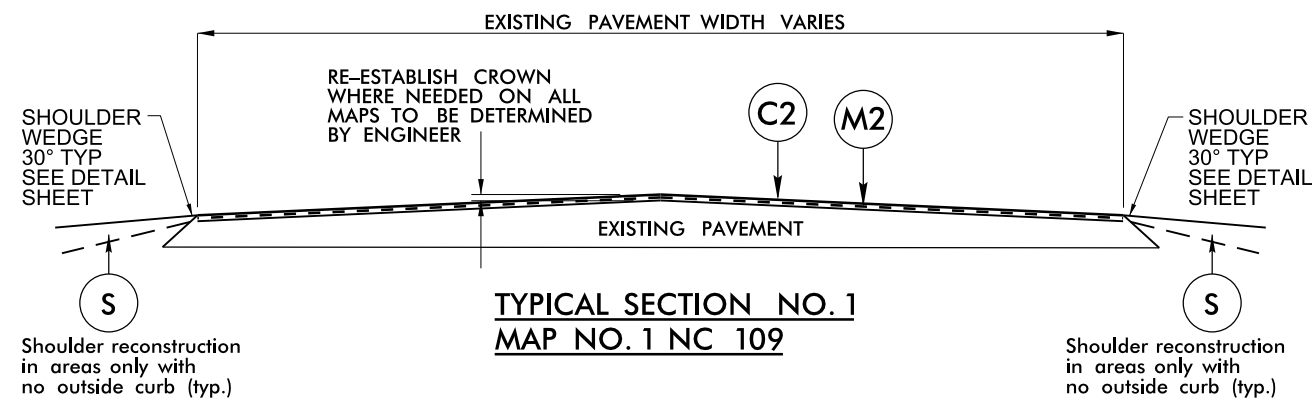
**DAVIDSON COUNTY**  
NORTH CAROLINA



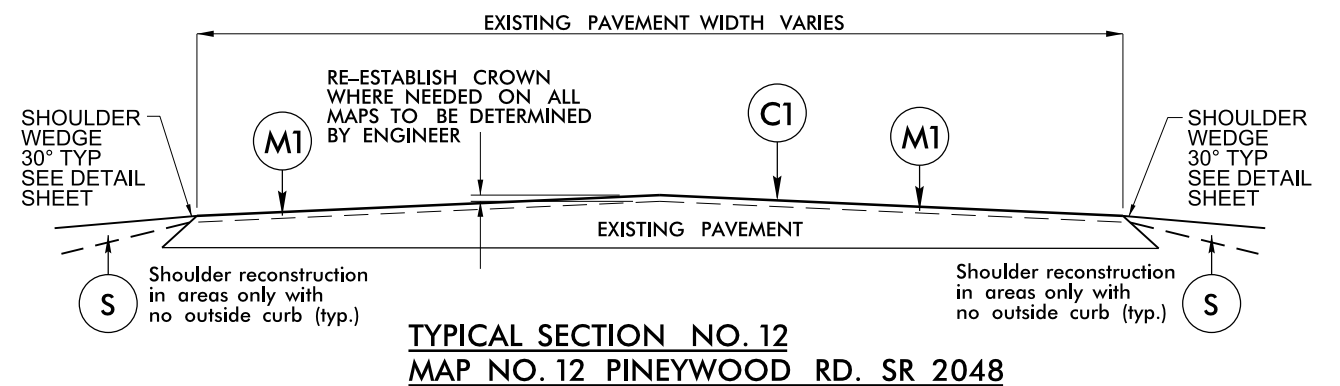
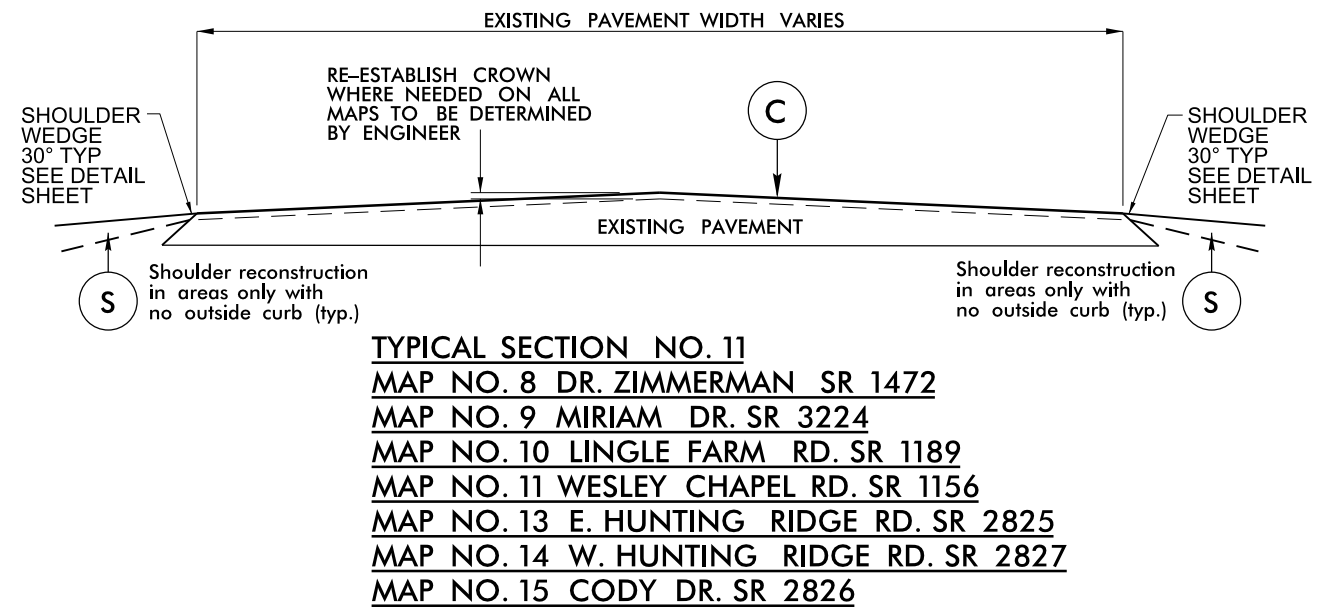
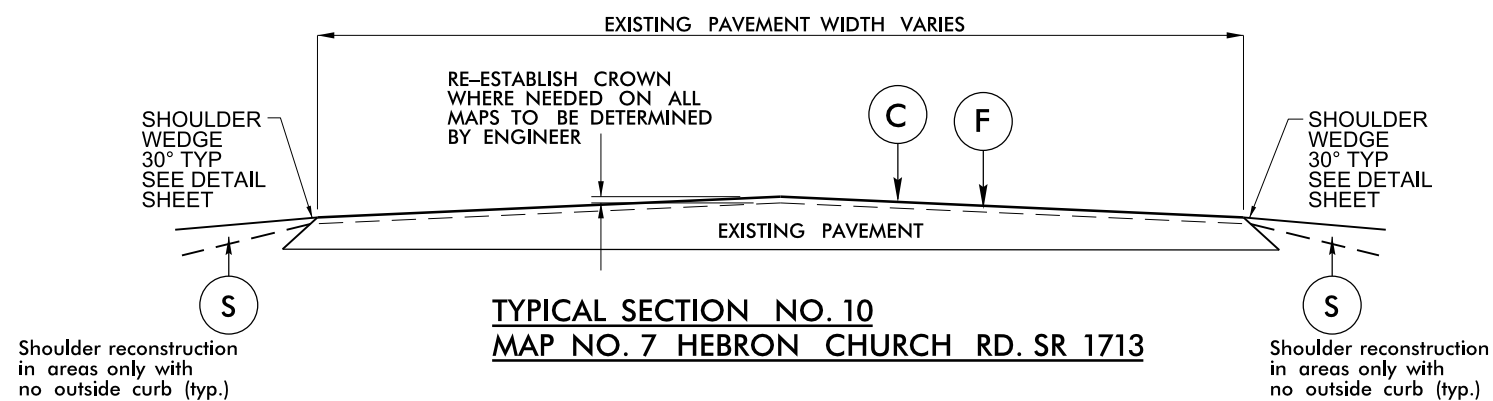
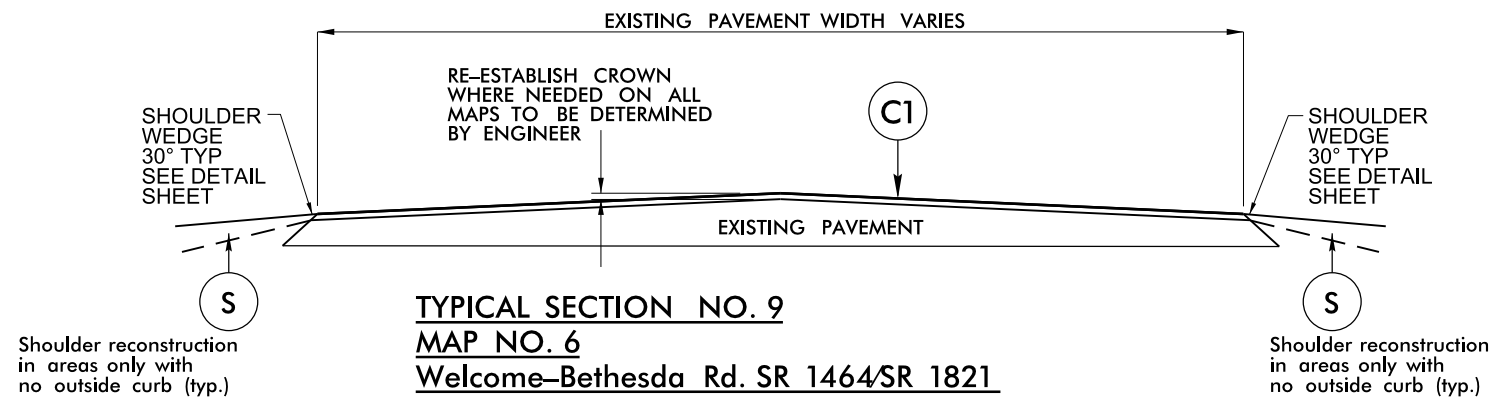
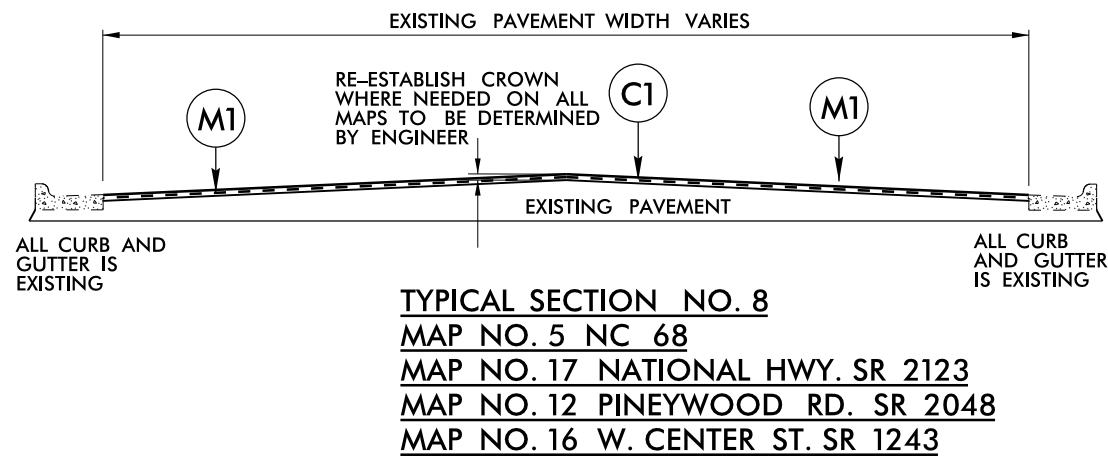
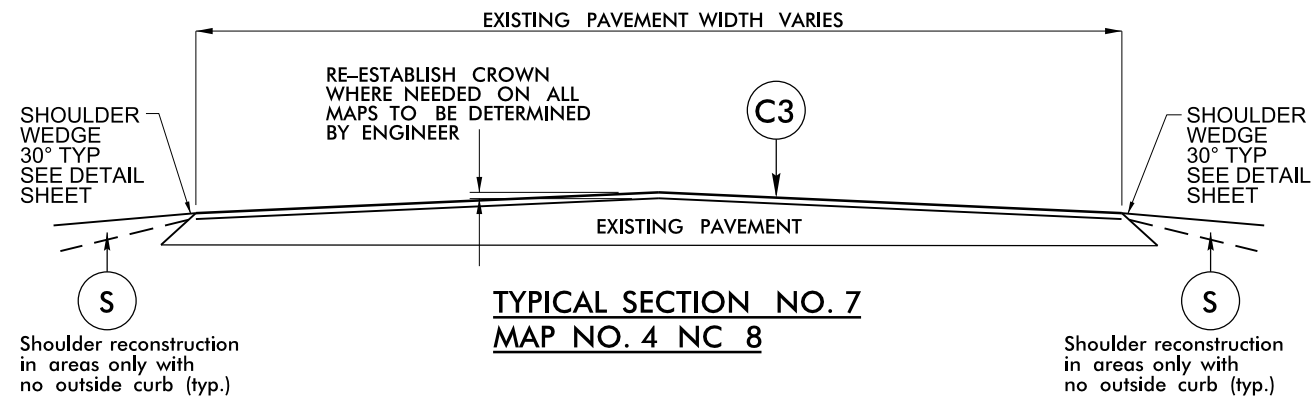
MAP 12  
Pineywood Rd. SR 2048  
Mill 1½" depth  
Pave 1½" S9.5B



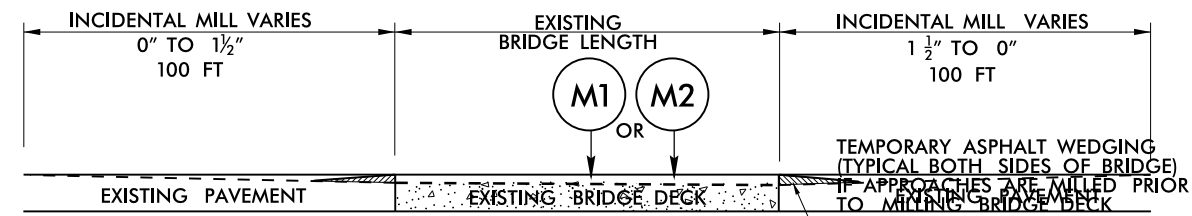
MAP 16  
W. Center St. SR 1243  
Mill 1½" Depth  
Pave 1½" S9.5B



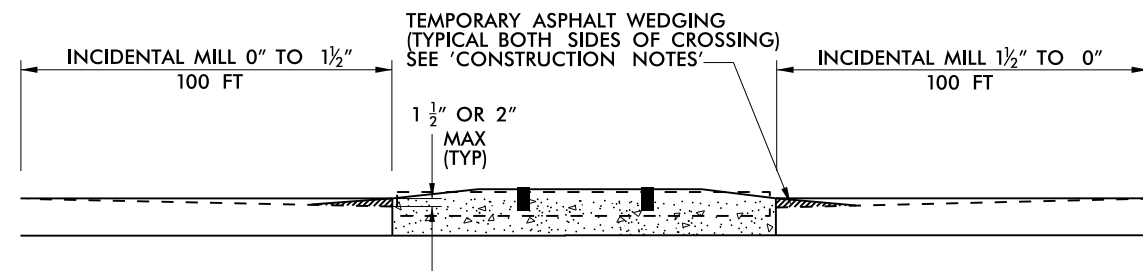
PAVEMENT SCHEDULE	
C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ YD.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
F	AST, MAT & SEAL
M1	MILL ASPHALT PAVEMENT, 1 1/2" DEPTH
M2	MILL ASPHALT PAVEMENT, 2" DEPTH
M3	MILL ASPHALT PAVEMENT, 0" TO 1 1/2"
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT



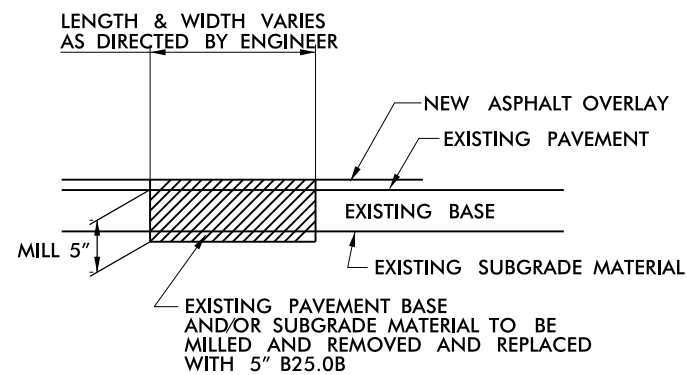
PAVEMENT SCHEDULE	
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ YD.
C3	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
F	AST, MAT & SEAL
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
M2	MILL ASPHALT PAVEMENT, 2" DEPTH
M3	MILL ASPHALT PAVEMENT, 0" TO 1½"
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT



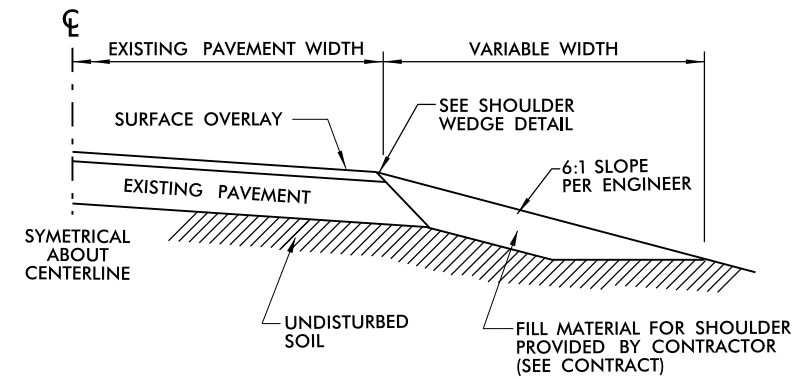
**INCIDENTAL MILLING-BRIDGE DECK AND APPROACHES**  
(SEE BRIDGE DATA SHEET)



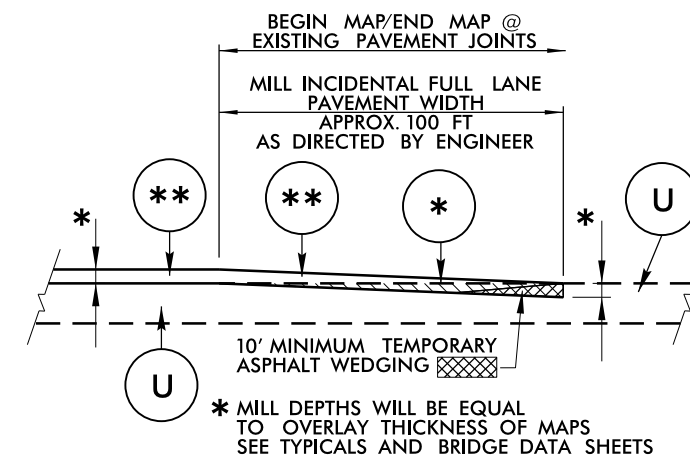
**INCIDENTAL MILLING-RAILROAD CROSSING APPROACHES**



**PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING**



**SHOULDER RECONSTRUCTION**

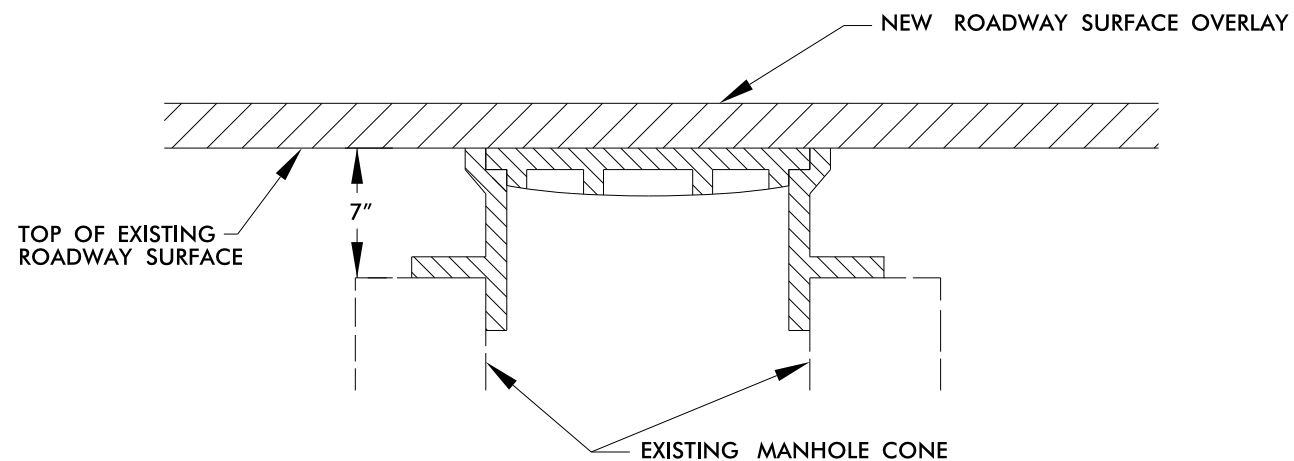
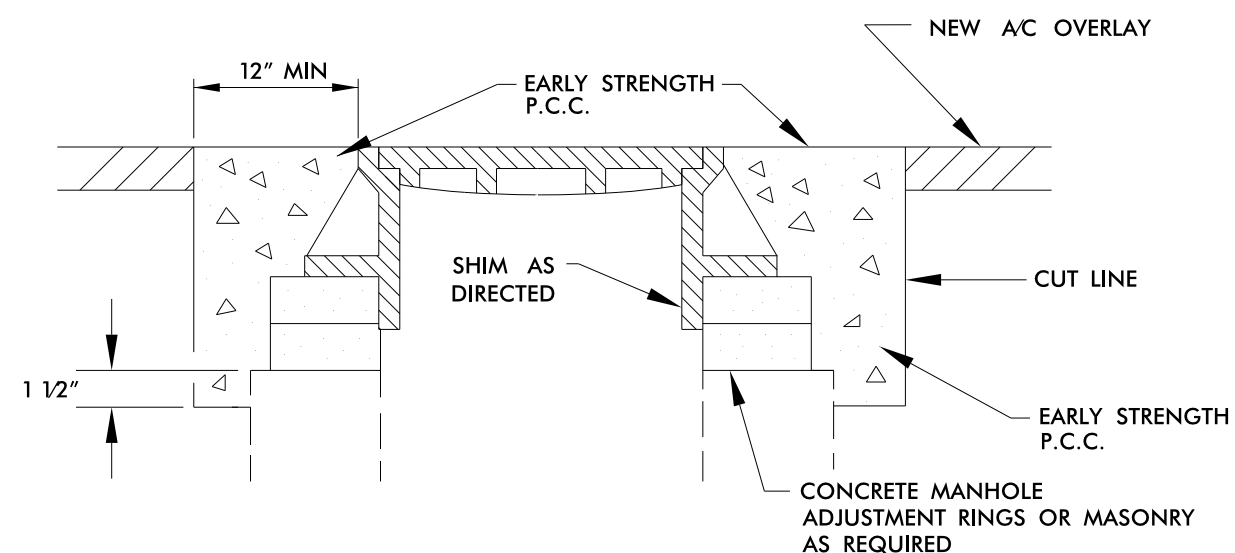


\*\* SEE TYPICALS FOR MIX TYPE

**INCIDENTAL MILLING AT TIE-IN DETAIL**

**PAVEMENT SCHEDULE**

C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C1	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.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ YD.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
F	AST, MAT & SEAL
M1	MILL ASPHALT PAVEMENT, 1 1/2" DEPTH
M2	MILL ASPHALT PAVEMENT, 2" DEPTH
M3	MILL ASPHALT PAVEMENT, 0" TO 1 1/2"
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

**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.

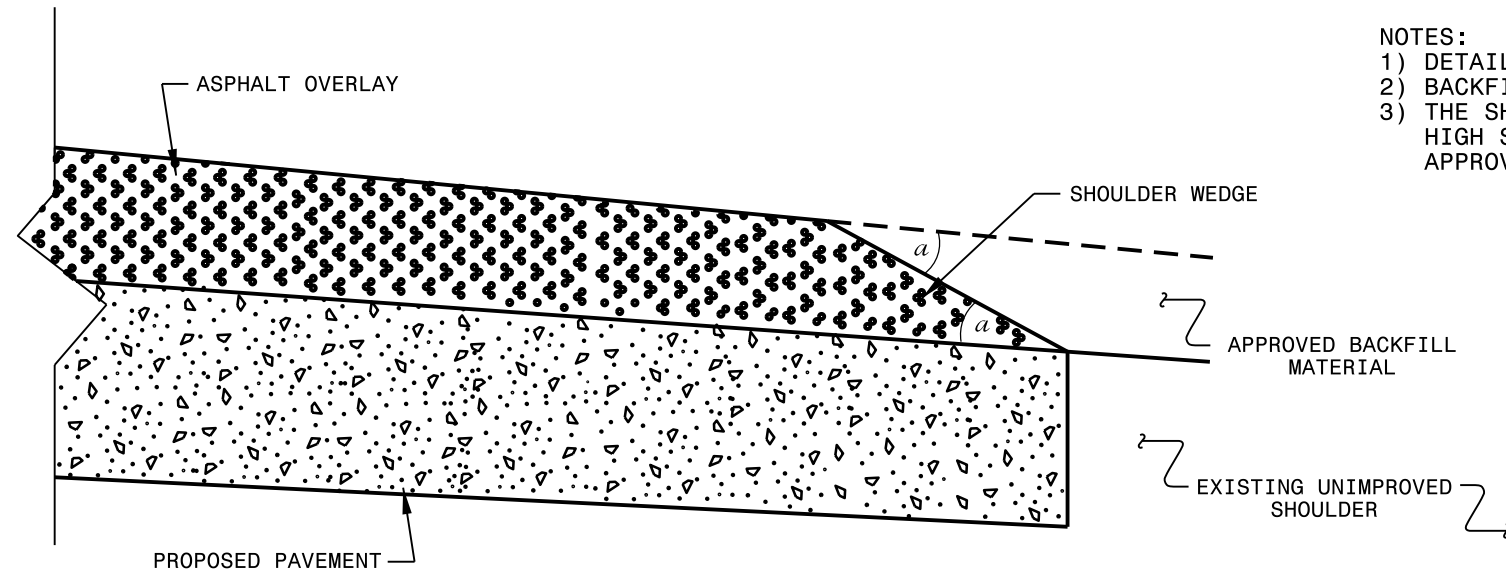
**MANHOLE ADJUSTMENT DETAIL****CONSTRUCTION NOTES:**

- ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".
- 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.
- 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.
- 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).
- 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 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.
- PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610-11.
- ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.
- 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

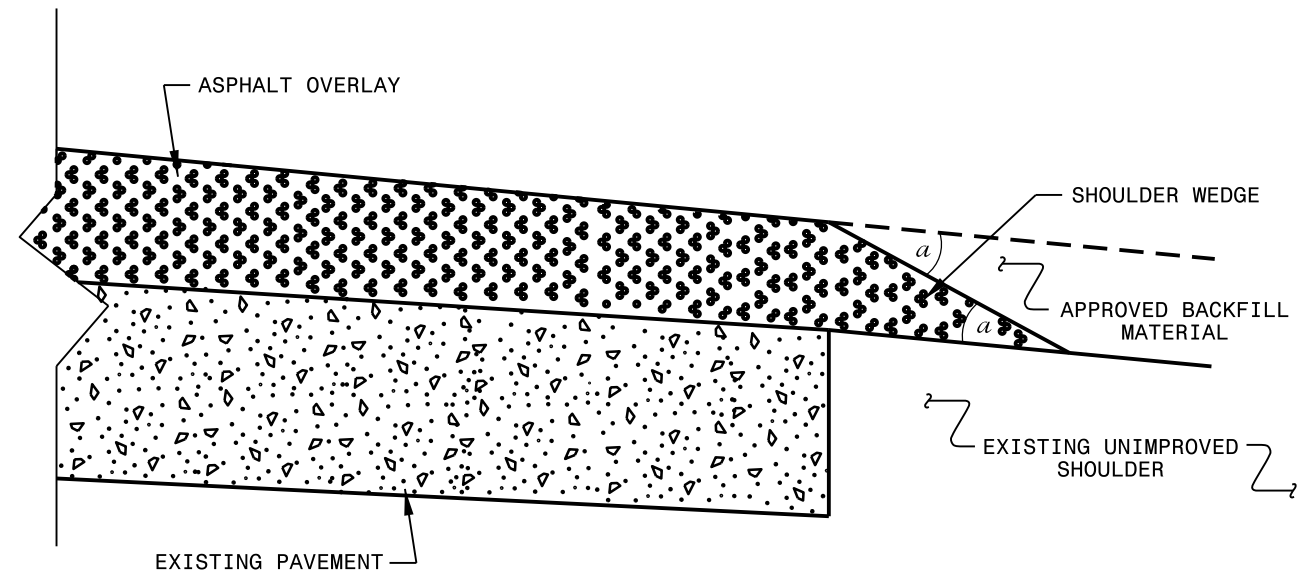


**NOTES:**

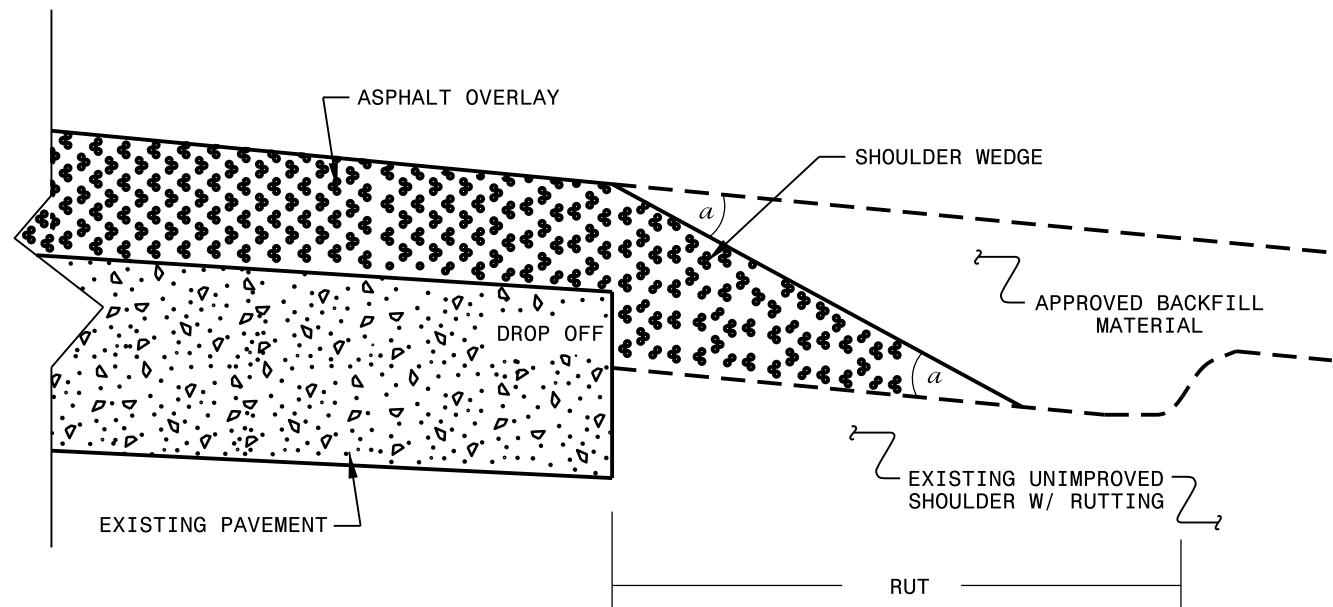
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



**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 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

03-FEB-2017 08:31 S:\Contracts\Resurfacing\Projects\Shoulder Wedge Details\Revised Shoulder Wedge Detail.dgn \$\$\$\$USERNAME\$\$\$

## DAVIDSON Resurfacing BRIDGE LIST

								PROJECT NO.	SHEET NO.		
								2017CPT.09.26.10291	17		
								2017CPT.09.27.20291			
Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under (Ft.)	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
1	NC 109	NC 109	58	NC 64	6.5 SLAB 3 AWS	26	NA	NA	135	NA	MILL 2" AND PAVE
1	I 85	I 85	479	NC 109	8 1/4 RC, SLAB	56	64	19 FT 00 IN	169	NA	MAINTAIN CLEARANCE
1	I 85	I 85	480	NC 109	8 1/4 RC, SLAB	56	64	16 FT 08 IN	167	NA	MAINTAIN CLEARANCE
2	NC 47	NC 47	540	NORFOLK SOUTHERN RR	8 3/4 RC, SLAB	30.2	NA	NA	272	NA	DO NOT MILL OR PAVE POLYUREA STRIPPING ONLY
2	NC 47	NC 47	146	I85	8 RC, SLAB	44		NA	273	NA	DO NOT MILL OR PAVE POLYUREA STRIPPING ONLY
3	NC 47	NC 47	17	Swearing Creek							Bridge will be under construction. Date of availability 1-9-17; Completion date 3-16-18 Contact Construction Assist. Res.
5	US29 & US 70/I85 BUS NB	US29 & US 70/I85 BUS NB	161	NC 68	8 1/2 RC, SLAB	38	NA	18 FT 06 IN SBL 19 FT 03 IN NBL	203	NA	MAINTAIN CLEARANCE
5	US29 & US 70/I85 BUS SB	US29 & US 70/I85 BUS SB	162	NC 68	8 1/2 RC, SLAB	38	NA	16 FT 09 IN SBL 17 FT 04 IN NBL	197	NA	MAINTAIN CLEARANCE
6	SR 1464 SR 1821	WELCOME-BETHESDA RD.	512	US 52 & NC 8	5.25 RC, 3.5 PPC	31	NA	NA	237	NA	DO NOT MILL OR PAVE POLYUREA STRIPPING ONLY
7	SR 1713	HEBRON CHURCH RD.	114	WINSTON SALEM RXR	4.5 RC, 3.5 PPC	24	NA	NA	142	NA	DO NOT MILL OR PAVE POLYUREA STRIPPING ONLY
16	SR 1243	US64 EBL& RAMP WBL	39	US 29 & US 70/ I85 BUS. LOOP	8.25 RC	43.667	NA	NA	191	NA	DO NOT MILL OR PAVE
17	SR 2123	NATIONAL HIGHWAY	463	ROCKY CREEK	7 7/8 RC, 3 AWS	52	NA	NA	32	SV 22 TTST 30	MILL 1 1/2" AND PAVE

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.09.26.10291, 2017CPT.09.27.20291	18	

### 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, 2"DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2"DEPTH SY	MILLING ASPHALT PAVEMENT, 0"TO 1 1/2" DEPTH SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, MAT & 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		
2017CPT.09.26.10291	Davidson	1	NC 109	FROM STOP BAR AT OLD US 64 TO NC 62		2		NO	NO	9.493	32-60	1,091	750	18.17	249,136					30,177		1,780						1	8	3,635	363	
<b>TOTAL FOR MAP NO. 1</b>										<b>9.493</b>		<b>1,091</b>	<b>750</b>	<b>18.17</b>	<b>249,136</b>					<b>30,177</b>		<b>1,780</b>					<b>1</b>	<b>8</b>	<b>3,635</b>	<b>363</b>		
2017CPT.09.26.10291	Davidson	2	NC 47	LINWOOD-SOUTHMONT RD. TO CONCRETE PAVEMENT JT. AT END OF NC 47		2	2WU	NO	NO	2.091	21-36	214	159	3.56			3,573	2,364	3,907			234	586					1	6	712	71	
<b>TOTAL FOR MAP NO. 2</b>										<b>2.091</b>		<b>214</b>	<b>159</b>	<b>3.56</b>			<b>3,573</b>	<b>2,364</b>	<b>3,907</b>			<b>234</b>	<b>586</b>				<b>1</b>	<b>6</b>	<b>712</b>	<b>71</b>		
2017CPT.09.26.10291	Davidson	3	NC 47	LINWOOD-SOUTHMONT RD. TO E.O.P. AT NC 8		2	2WU	NO	NO	3.376	23-55	405	228	6.75				1,823	4,539			272	681					1	4	1,350	135	
<b>TOTAL FOR MAP NO. 3</b>										<b>3.376</b>		<b>405</b>	<b>228</b>	<b>6.75</b>				<b>1,823</b>	<b>4,539</b>			<b>272</b>	<b>681</b>				<b>1</b>	<b>4</b>	<b>1,350</b>	<b>135</b>		
2017CPT.09.26.10291	Davidson	4	NC 8	FROM RADIUS AT JERSEY CHURCH ROAD SR 1272 TO APPROX. 100 FEET THROUGH INT. AT NC 47		2	2WU	NO	NO	1.556	36-70	95		1.58			9,947	2,833		4,789			283	20						316	32	
<b>TOTAL FOR MAP NO. 4</b>										<b>1.556</b>		<b>95</b>		<b>1.58</b>			<b>9,947</b>	<b>2,833</b>		<b>4,789</b>			<b>283</b>	<b>20</b>					<b>316</b>	<b>32</b>		
2017CPT.09.26.10291	Davidson	5	NC 68	FROM NORTHBOUND STOP BAR AT EAST BOUND ON RAMP TO PAVEMENT JT. AT BALL APRK RD. (NS)		4	MD	NO	NO	0.236	24-60															2	1	1				
<b>TOTAL FOR MAP NO. 5</b>										<b>0.236</b>																<b>2</b>	<b>1</b>	<b>1</b>				
<b>TOTAL FOR PROJ NO. 2017CPT.09.26.10291</b>										<b>16.752</b>		<b>1,805</b>	<b>1,137</b>	<b>30.06</b>	<b>249,136</b>			<b>13,520</b>	<b>7,020</b>	<b>34,966</b>			<b>2,637</b>	<b>1,287</b>			<b>2</b>	<b>4</b>	<b>19</b>	<b>6,013</b>	<b>601</b>	
2017CPT.09.27.20291	Davidson	6	WELCOME-BETHESDA RD. SR 1464/WELCOME-BETHESDA RD. SR1821	OLD US 52 (SR 2932) PVMT. JT. TO BETHESDA RD. (SR 1836)		2	2WU	NO	NO	2.227	21-33	267	264	4.45				1,107	2,666									5	891	89		
<b>TOTAL FOR MAP NO. 6</b>										<b>2.227</b>		<b>267</b>	<b>264</b>	<b>4.45</b>				<b>1,107</b>	<b>2,666</b>									<b>5</b>	<b>891</b>	<b>89</b>		
2017CPT.09.27.20291	Davidson	7	HEBRON CHURCH ROAD SR 1713	OLD US 52 (SR 2932) TO GUM TREE RD. (SR 1711)		2	2WU	NO	NO	0.898	18-20	108	78	1.80								956	64						359	36		
<b>TOTAL FOR MAP NO. 7</b>										<b>0.898</b>		<b>108</b>	<b>78</b>	<b>1.80</b>									<b>956</b>	<b>64</b>					<b>359</b>	<b>36</b>		
2017CPT.09.27.20291	Davidson	8	DR. ZIMMERMAN SR 1472	CRAVER RD. (SR 1502) TO WELCOME ARCADIA RD. (SR 1481)		2	2WU	NO	NO	1.099	20	132	42	2.20				444				1,231	82	20					440	44		
<b>TOTAL FOR MAP NO. 8</b>										<b>1.099</b>		<b>132</b>	<b>42</b>	<b>2.20</b>				<b>444</b>				<b>1,231</b>	<b>82</b>	<b>20</b>					<b>440</b>	<b>44</b>		
2017CPT.09.27.20291	Davidson	9	MIRIAM DR. SR 3224	NC 150 TO DEAD END		2	2WU	NO	NO	0.288	18											291	19									
<b>TOTAL FOR MAP NO. 9</b>										<b>0.288</b>													<b>291</b>	<b>19</b>								
2017CPT.09.27.20291	Davidson	10	LINGLE FARM RD. SR 1189	OLD US 64 TO EARLY JAMES RD. (SR 1188)		2	2WU	NO	NO	1.228	19	147	99	2.46								1,307	88	20					491	49		
<b>TOTAL FOR MAP NO. 10</b>										<b>1.228</b>		<b>147</b>	<b>99</b>	<b>2.46</b>									<b>1,307</b>	<b>88</b>	<b>20</b>				<b>491</b>	<b>49</b>		
2017CPT.09.27.20291	Davidson	11	WESLEY CHAPEL RD. SR 1156	OLD SALISBURY SR 1147 TO SWICEGOOD RD. SR 1155		2	2WU	NO	NO	2.113	19	254	243	4.23								2,249	151	20					845	85		
<b>TOTAL FOR MAP NO. 11</b>										<b>2.113</b>		<b>254</b>	<b>243</b>	<b>4.23</b>									<b>2,249</b>	<b>151</b>	<b>20</b>				<b>845</b>	<b>85</b>		
2017CPT.09.27.20291	Davidson	12	PINEWOOD RD. SR 2048	LEXINGTON AVE. TO DR. MLK JR. DR. SR 1792		2	2WU	NO	NO	0.788	18-23	175	201	1.45			9,708					943						19	2	580	58	
<b>TOTAL FOR MAP NO. 12</b>										<b>0.788</b>		<b>175</b>	<b>201</b>	<b>1.45</b>			<b>9,708</b>						<b>943</b>					<b>19</b>	<b>2</b>	<b>580</b>	<b>58</b>	
2017CPT.09.27.20291	Davidson	13	E. HUNTING RIDGE RD. SR 2825	E.O.P. AT NC 109 TO E.O.P. AT W. HUNTING RIDGE RD. SR 2827		2	2WU	NO	NO	0.179	19											191	13	20					1			
<b>TOTAL FOR MAP NO. 13</b>										<b>0.179</b>													<b>191</b>	<b>13</b>	<b>20</b>				<b>1</b>			
2017CPT.09.27.20291	Davidson	14	W. HUNTING RIDGE RD. SR 2827	E.O.P. AT CODY DR. SR 2816 TO END		2	2WU	NO	NO	0.382	19											443	30	20								
<b>TOTAL FOR MAP NO. 14</b>										<b>0.382</b>													<b>443</b>	<b>30</b>	<b>20</b>							
2017CPT.09.27.20291	Davidson	15	CODY DR. SR 2826	E.O.P. AT W. HUNTING RIDGE RD. SR 2827 TO END		2	2WU	NO	NO	0.528	19											597	40	20								
<b>TOTAL FOR MAP NO. 15</b>										<b>0.528</b>													<b>597</b>	<b>40</b>	<b>20</b>							
2017CPT.09.27.20291	Davidson	16	W. CENTER ST. SR 1243	FROM PVMT. JT NEAR STATE ST. TO BRIDGE #39		2	2WU	NO	NO	1.029	40-63											3,122						18	22			
<b>TOTAL FOR MAP NO. 16</b>										<b>1.029</b>													<b>3,122</b>					<b>18</b>	<b>22</b>			
2017CPT.09.27.20291	Davidson	17	NATIONAL HWY. SR 2123	PAVEMENT JT. AT JULIAN AVE./MAPLE AVE. AND EAST MAIN ST. TO NOSE AT EB RAMP TO BUS 85/US29/US70		2	MU	NO	NO	1.73	36-50											4,300						2	18	18		
<b>TOTAL FOR MAP NO. 17</b>										<b>1.73</b>													<b>4,300</b>					<b>2</b>	<b>18</b>	<b>18</b>		
<b>TOTAL FOR PROJ NO. 2017CPT.09.27.20291</b>										<b>12.489</b>		<b>1,083</b>	<b>927</b>	<b>16.59</b>	<b>249,136</b>			<b>86,336</b>	<b>13,520</b>	<b>8,571</b>	<b>20,602</b>	<b>34,966</b>	<b>7,265</b>	<b>3,786</b>	<b>1,454</b>	<b>10,010</b>	<b>5,005</b>	<b>2</b>	<b>55</b>	<b>48</b>	<b>3,606</b>	<b>361</b>
<b>GRAND TOTAL</b>										<b>29.241</b>		<b>2,888</b>	<b>2,064</b>	<b>46.65</b>	<b>249,136</b>			<b>97,967</b>	<b>13,520</b>	<b>8,571</b>	<b>20,602</b>	<b>34,966</b>	<b>7,265</b>	<b>3,786</b>	<b>1,454</b>	<b>10,010</b>	<b>5,005</b>	<b>4</b>	<b>59</b>	<b>67</b>	<b>9,619</b>	<b>962</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.
2017CPT.09.26.10291, 2017CPT.09.27.20291	19	

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E		4457000000-N		4510000000-N		4685000000-E		4686000000-E		4695000000-E		4700000000-E		4705000000-E		4710000000-E		4721000000-E		4725000000-E					
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS	LAW ENFORCEMENT HR	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	8" X 90 M YELLOW THERMO LF	8" X 90 M WHITE THERMO LF	12" X 90 M YELLOW THERMO LF	12" X 90 M WHITE THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	THERMO RXR 120 M EA	THERMO LT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	THERMO MERGE ARROW (90 MILS) EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO RT ARROW 90 M EA					
2017CPT.09.26.10291	Davidson	1	NC 109	FROM STOP BAR AT OLD US 64 TO NC 62		2		9.493	32-60	1,950	1	16						480		100	971			8	4	51	5	4	21	4	29				
<b>TOTAL FOR MAP NO. 1</b>										9.493	1,950	1	16				480		100	971			8	4	51	5	4	21	4	29					
2017CPT.09.26.10291	Davidson	2	NC 47	LINWOOD-SOUTHMONT RD. TO CONCRETE PAVEMENT JT. AT END OF NC 47		2	ZWU	2.091	21-36			8						339		100	340			4	34	1				3					
<b>TOTAL FOR MAP NO. 2</b>										2.091			8				339		100	340			4	34	1					3					
2017CPT.09.26.10291	Davidson	3	NC 47	LINWOOD-SOUTHMONT RD. TO E.O.P. AT NC 8		2	ZWU	3.376	23-55									155			60					3				1					
<b>TOTAL FOR MAP NO. 3</b>										3.376							155			60					3					1					
2017CPT.09.26.10291	Davidson	4	NC 8	FROM RADIUS AT JERSEY CHURCH ROAD SR 1272 TO APPROX. 100 FEET THROUGH INT. AT NC 47		2	ZWU	1.556	36-70											161	350	299		4	14	53			12	1	13				
<b>TOTAL FOR MAP NO. 4</b>										1.556									161	350	299		4	14	53			12	1	13					
2017CPT.09.26.10291	Davidson	5	NC 68	FROM NORTHBOUND STOP BAR AT EAST BOUND ON RAMP TO PAVEMENT JT. AT BALL APRK RD. (NS)		4	MD	0.236	24-60			8					1,264	2,230	102	891	102	93				8	2		10		4				
<b>TOTAL FOR MAP NO. 5</b>										0.236			8			1,264	2,230	102	891	102	93			8	2		10		4						
<b>TOTAL FOR PROJ NO. 2017CPT.09.26.10291</b>										16.752	1,950	1	32			3,494	993	1,330						34	22	149	8	4	43	6	49				
2017CPT.09.27.20291	Davidson	6	WELCOME-BETHESDA RD. SR 1464/WELCOME-BETHESDA RD. SR1821	OLD US 52 (SR 2932) PVMT. JT. TO BETHESDA RD. (SR 1836)		2	ZWU	2.227	21-33			23,963				144	23,517					100	50			4									
<b>TOTAL FOR MAP NO. 6</b>										2.227			23,963			144	23,517				100	50			4										
2017CPT.09.27.20291	Davidson	7	HEBRON CHURCH ROAD SR 1713	OLD US 52 (SR 2932) TO GUM TREE RD. (SR 1711)		2	ZWU	0.898	18-20			9,662					9,483																		
<b>TOTAL FOR MAP NO. 7</b>										0.898			9,662				9,483																		
2017CPT.09.27.20291	Davidson	8	DR. ZIMMERMAN SR 1472	CRAVER RD. (SR 1502) TO WELCOME ARCADIA RD. (SR 1481)		2	ZWU	1.099	20			11,825				10	11,605																		
<b>TOTAL FOR MAP NO. 8</b>										1.099			11,825			10	11,605																		
2017CPT.09.27.20291	Davidson	9	MIRIAM DR. SR 3224	NC 150 TO DEAD END		2	ZWU	0.288	18																										
<b>TOTAL FOR MAP NO. 9</b>										0.288																									
2017CPT.09.27.20291	Davidson	10	LINGLE FARM RD. SR 1189	OLD US 64 TO EARLY JAMES RD. (SR 1188)		2	ZWU	1.228	19			13,213				22	12,968																		
<b>TOTAL FOR MAP NO. 10</b>										1.228			13,213			22	12,968																		
2017CPT.09.27.20291	Davidson	11	WESLEY CHAPEL RD. SR 1156	OLD SALISBURY SR 1147 TO SWICEGOOD RD. SR 1155		2	ZWU	2.113	19			22,736				22	22,313																		
<b>TOTAL FOR MAP NO. 11</b>										2.113			22,736			22	22,313																		
2017CPT.09.27.20291	Davidson	12	PINEYWOOD RD. SR 2048	LEXINGTON AVE. TO DR. MLK JR. DR. SR 1792		2	ZWU	0.788	18-23			8,479				84	8,321																		
<b>TOTAL FOR MAP NO. 12</b>										0.788			8,479			84	8,321																		
2017CPT.09.27.20291	Davidson	13	E. HUNTING RIDGE RD. SR 2825	E.O.P. AT NC 109 TO E.O.P. AT W. HUNTING RIDGE RD. SR 2827		2	ZWU	0.179	19																										
<b>TOTAL FOR MAP NO. 13</b>										0.179																									
2017CPT.09.27.20291	Davidson	14	W. HUNTING RIDGE RD. SR 2827	E.O.P. AT CODY DR. SR 2816 TO END		2	ZWU	0.382	19																										
<b>TOTAL FOR MAP NO. 14</b>										0.382																									
2017CPT.09.27.20291	Davidson	15	CODY DR. SR 2826	E.O.P. AT W. HUNTING RIDGE RD. SR 2827 TO END		2	ZWU	0.528	19																										
<b>TOTAL FOR MAP NO. 15</b>										0.528																									
2017CPT.09.27.20291	Davidson	16	W. CENTER ST. SR 1243	FROM PVMT. JT NEAR STATE ST. TO BRIDGE #39		2	ZWU	1.029	40-63			1,961	158	3,787	9,750	60	996			200	401			12	8	8	6		7	9	8				
<b>TOTAL FOR MAP NO. 16</b>										1.029			1,961	158	3,787	9,750	60	996		200	401		12	8	8	6		7	9	8					
2017CPT.09.27.20291	Davidson	17	NATIONAL HWY. SR 2123	PAVEMENT JT. AT JULIAN AVE./MAPLE AVE. AND EAST MAIN ST. TO NOSE AT EB RAMP TO BUS 85/US29/US70		2	MU	1.73	36-50			250		4,502	20,749	150	621							20		61			15	18	5				
<b>TOTAL FOR MAP NO. 17</b>										1.73			250		4,502	20,749	150	621				20		61			15	18	5						
<b>TOTAL FOR PROJ NO. 2017CPT.09.27.20291</b>										12.489			92,089	158	8,571	118,706	210	1,617		300	754		32	12	69	6		22	27	13					
													92,247			127,277		1,827					44												
<b>GRAND TOTAL</b>										29.241	1,950	1	32	92,089	158	9,835	120,936	312	2,508	1,076	254	850	2,632	44	34	218	14	4	65	33	62				
													92,247			130,771		2,820		1,330				78											

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

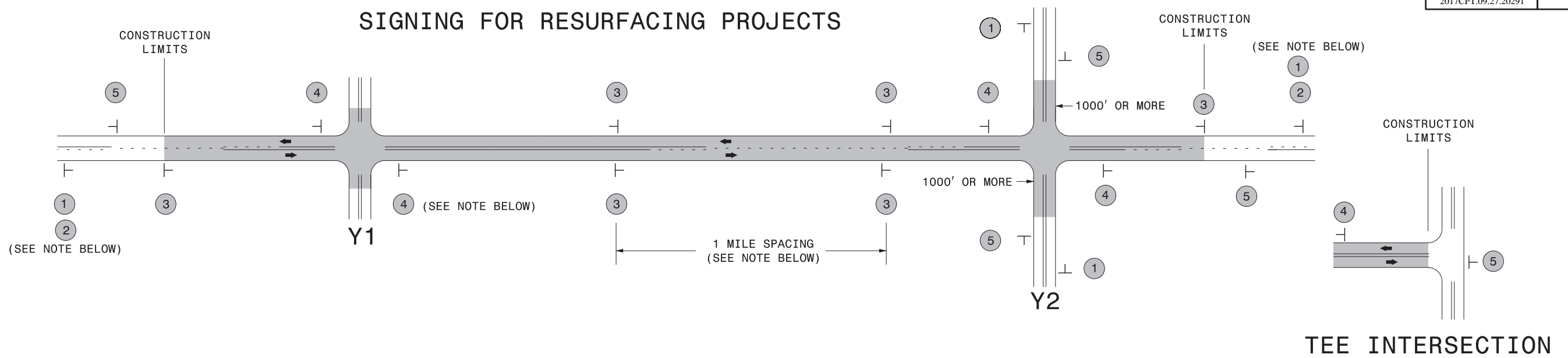
PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.09.26.10291, 2017CPT.09.27.20291	20	

**THERMOPLASTIC AND PAINT QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	481000000-E		482000000-E		483000000-E		483500000-E		484000000-N		484500000-N					484700000-E		4847110000-E	485000000-E	490500000-N	
										4" WHITE PAINT	4" YELLOW PAINT	8" YELLOW PAINT	8" WHITE PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG RXR	PAINT MSG ONLY	PAINT LT ARROW	PAINT STR & LT ARROW	PAINT STR ARROW	PAINT STR & RT ARROW	PAINT RT ARROW	4" WHITE POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	4" YELLOW POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	8" WHITE POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	REMOVAL OF PAVEMENT MARKING LINES (4")	SNOW PLOWABLE MARKERS			
										LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		
2017CPT.09.26.10291	Davidson	1	NC 109	FROM STOP BAR AT OLD US 64 TO NC 62	1,2	2		9.493	32-60	7,983	106,105	480		100	971	4									105,074	106,105	1,538		1,200	
			TOTAL FOR MAP NO. 1					9.493		7,983	106,105	480		100	971	4									105,074	106,105	1,538		1,200	
2017CPT.09.26.10291	Davidson	2	NC 47	LINWOOD-SOUTHMONT RD. TO CONCRETE PAVEMENT JT. AT END OF NC 47	3,4	2	ZWU	2.091	21-36																24,450	28,061		1,088	326	
			TOTAL FOR MAP NO. 2					2.091																	24,450	28,061		1,088	326	
2017CPT.09.26.10291	Davidson	3	NC 47	LINWOOD-SOUTHMONT RD. TO E.O.P. AT NC 8	4	2	ZWU	3.376	23-55																36,826	35,946			223	
			TOTAL FOR MAP NO. 3					3.376																	36,826	35,946			223	
2017CPT.09.26.10291	Davidson	4	NC 8	FROM RADIUS AT JERSEY CHURCH ROAD SR 1272 TO APPROX. 100 FEET THROUGH INT. AT NC 47	5,6,7	2	ZWU	1.556	36-70	2,120	20,839			350	299	14									12,200	20,839			321	
			TOTAL FOR MAP NO. 4					1.556		2,120	20,839			350	299	14									12,200	20,839			321	
2017CPT.09.26.10291	Davidson	5	NC 68	FROM NORTHBOUND STOP BAR AT EAST BOUND ON RAMP TO PAVEMENT JT. AT BALL APRK RD. (NS)	8	4	MD	0.236	24-60	1,264	2,230	102	891		208														100	
			TOTAL FOR MAP NO. 5					0.236		1,264	2,230	102	891		208														100	
			TOTAL FOR PROJ NO. 2017CPT.09.26.10291					16.752		11,367	129,174	582	891	450	1,478	18									178,550	190,951	1,538	1,088	2,170	
										140,541		1,473				18								369,501						
2017CPT.09.27.20291	Davidson	6	WELCOME-BETHESDA RD. SR 1464/WELCOME-BETHESDA RD. SR1821	OLD US 52 (SR 2932) PVMT. JT. TO BETHESDA RD. (SR 1836)	9	2	ZWU	2.227	21-33																520	520		1,040		
			TOTAL FOR MAP NO. 6					2.227																	520	520		1,040		
2017CPT.09.27.20291	Davidson	7	HEBRON CHURCH ROAD SR 1713	OLD US 52 (SR 2932) TO GUM TREE RD. (SR 1711)	10	2	ZWU	0.898	18-20																284	284		568		
			TOTAL FOR MAP NO. 7					0.898																	284	284		568		
2017CPT.09.27.20291	Davidson	8	DR. ZIMMERMAN SR 1472	CRAYER RD. (SR 1502) TO WELCOME ARCADIA RD. (SR 1481)	11	2	ZWU	1.099	20																					
			TOTAL FOR MAP NO. 8					1.099																						
2017CPT.09.27.20291	Davidson	9	MIRIAM DR. SR 3224	NC 150 TO DEAD END	11	2	ZWU	0.288	18																					
			TOTAL FOR MAP NO. 9					0.288																						
2017CPT.09.27.20291	Davidson	10	LINGLE FARM RD. SR 1189	OLD US 64 TO EARLY JAMES RD. (SR 1188)	11	2	ZWU	1.228	19																					
			TOTAL FOR MAP NO. 10					1.228																						
2017CPT.09.27.20291	Davidson	11	WESLEY CHAPEL RD. SR 1156	OLD SALISBURY SR 1147 TO SWICEGOOD RD. SR 1155	11	2	ZWU	2.113	19																					
			TOTAL FOR MAP NO. 11					2.113																						
2017CPT.09.27.20291	Davidson	12	PINEYWOOD RD. SR 2048	LEXINGTON AVE. TO DR. MLK JR. DR. SR 1792	8,12	2	ZWU	0.788	18-23																					
			TOTAL FOR MAP NO. 12					0.788																						
2017CPT.09.27.20291	Davidson	13	E. HUNTING RIDGE RD. SR 2825	E.O.P. AT NC 109 TO E.O.P. AT W. HUNTING RIDGE RD. SR 2827	11	2	ZWU	0.179	19																					
			TOTAL FOR MAP NO. 13					0.179																						
2017CPT.09.27.20291	Davidson	14	W. HUNTING RIDGE RD. SR 2827	E.O.P. AT CODY DR. SR 2816 TO END	11	2	ZWU	0.382	19																					
			TOTAL FOR MAP NO. 14					0.382																						
2017CPT.09.27.20291	Davidson	15	CODY DR. SR 2826	E.O.P. AT W. HUNTING RIDGE RD. SR 2827 TO END	11	2	ZWU	0.528	19																					
			TOTAL FOR MAP NO. 15					0.528																						
2017CPT.09.27.20291	Davidson	16	W. CENTER ST. SR 1243	FROM PVMT. JT NEAR STATE ST. TO BRIDGE #39	8	2	ZWU	1.029	40-63	4,088	9,750	60	996	200	401	8	12	8	6	7	9	8								
			TOTAL FOR MAP NO. 16					1.029		4,088	9,750	60	996	200	401	8	12	8	6	7	9	8								
2017CPT.09.27.20291	Davidson	17	NATIONAL HWY. SR 2123	PAVEMENT JT. AT JULIAN AVE./MAPLE AVE. AND EAST MAIN ST. TO NOSE AT EB RAMP TO BUS 85/US29/US70	8	2	MU	1.73	36-50	4,502	20,749	150	621		257		20	61		15	18	5								
			TOTAL FOR MAP NO. 17					1.73		4,502	20,749	150	621		257		20	61		15	18	5								
			TOTAL FOR PROJ NO. 2017CPT.09.27.20291					12.489		8,590	30,499	210	1,617	200	658	8	32	69	6	22	27	13			804	804		1,608		
										39,089		1,827				40								1,608						
<b>GRAND TOTAL</b>										29,241	19,957	159,673	792	2,508	650	2,136	26	32	69	6	22	27	13	179,354	191,755	1,538	2,696	2,170		
										179,630		3,300				58								371,109						

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

# SIGNING FOR RESURFACING PROJECTS



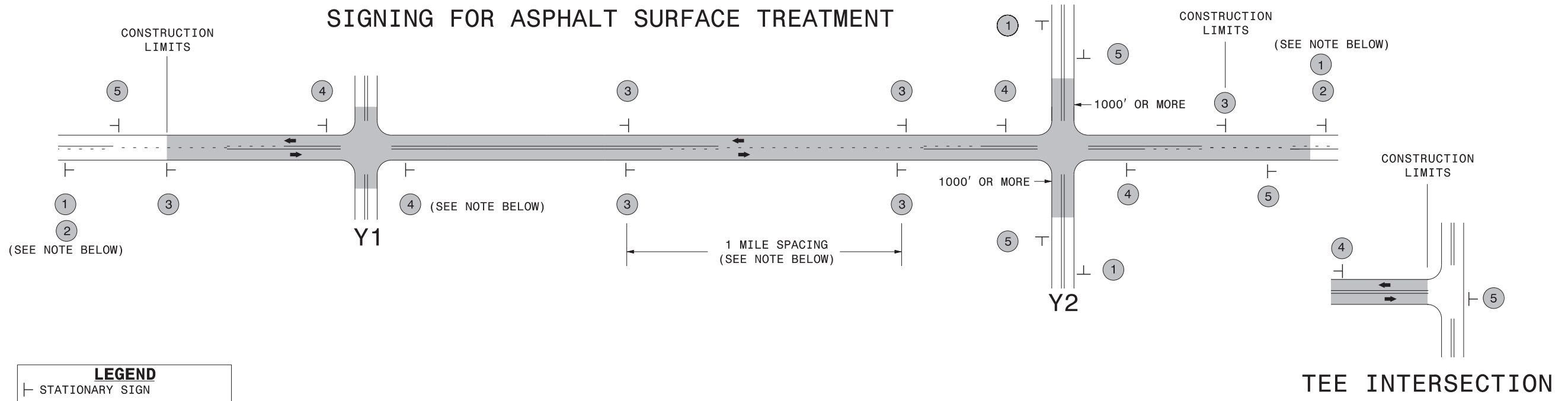
LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.  #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 style="text-align: center;"><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>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;"> <div style="text-align: center;">   <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small> </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 <small>W7-3aP 24" X 18"</small>		
	3	 <small>SP 13107 48" X 48"</small>	<ul style="list-style-type: none"> <li>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</li> <li>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li> </ul>	
	4	 <small>SP 13106 48" X 48"</small>	<ul style="list-style-type: none"> <li>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</li> <li>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li> <li>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li> <li>- 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.</li> <li>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li> <li>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</li> </ul>	
	5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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



### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	
	2	 <small>W7-3aP 24" X 18"</small>	#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)	
	3	 <small>W8-7 48" X 48"</small>	- ALTERNATE THE FOLLOWING TWO SIGNS: - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
		 <small>SP 48" X 48"</small>		
	4	 <small>SP 13106 48" X 48"</small>	- 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.		

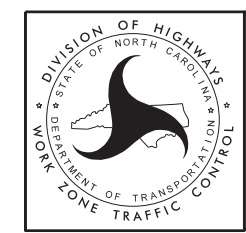
NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 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.

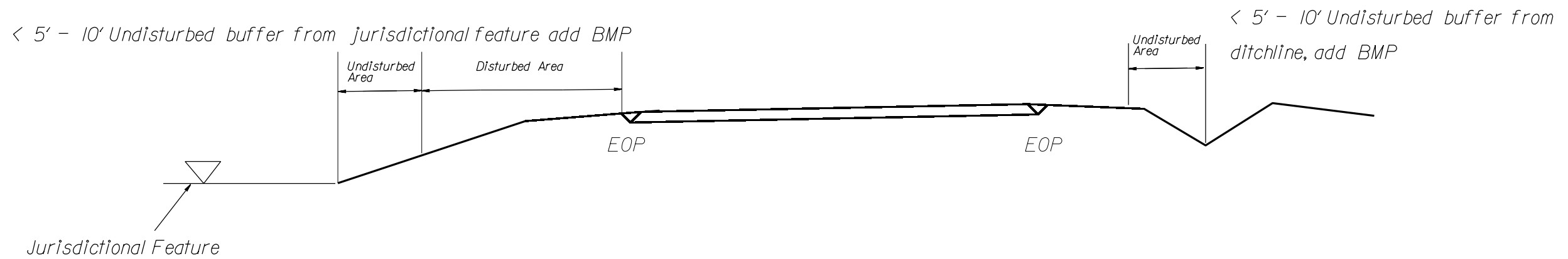
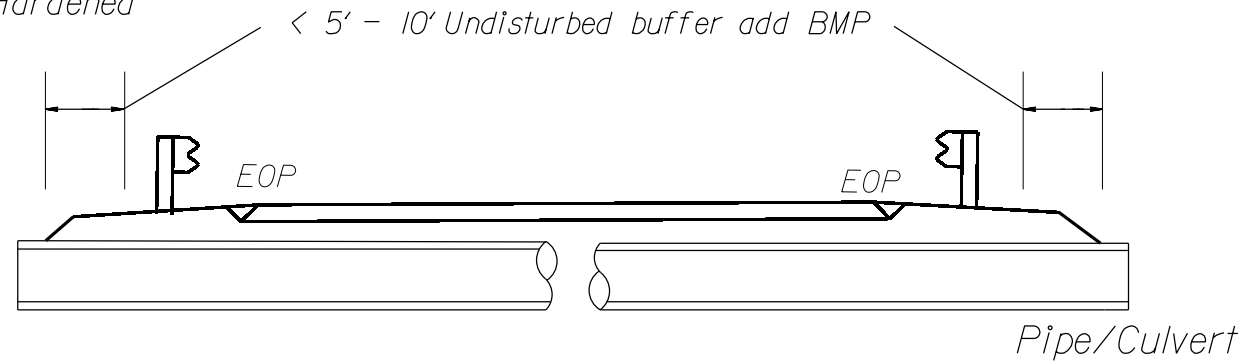


**ADVANCE WARNING SIGNS  
FOR  
ASPHALT SURFACE TREATMENTS  
2 LANE ROADWAYS**

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.

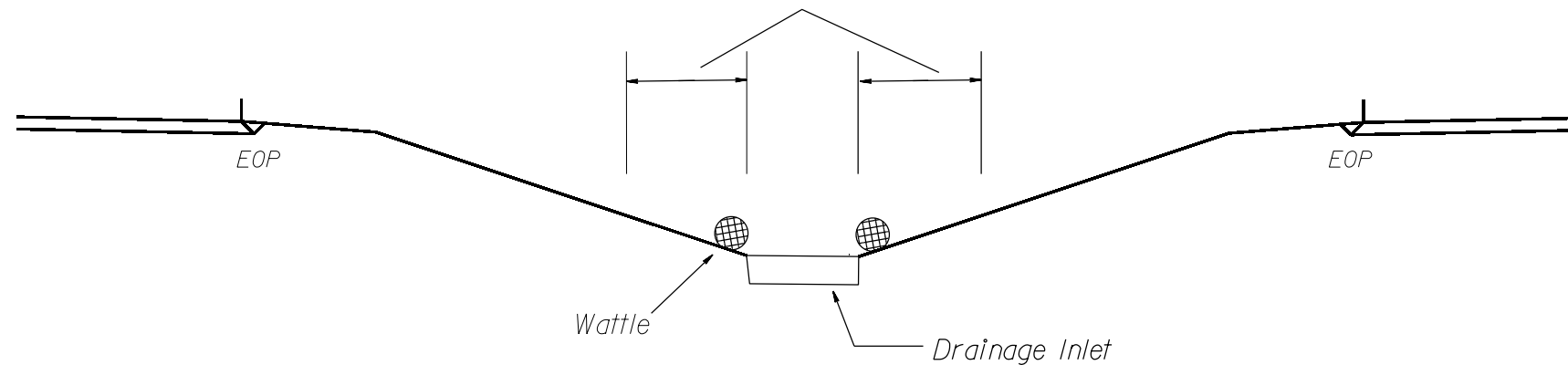
# EROSION CONTROL DETAIL



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



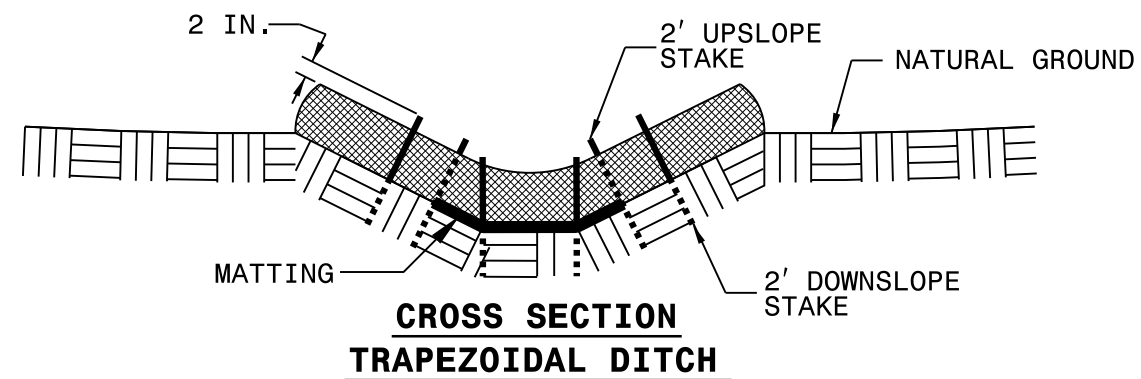
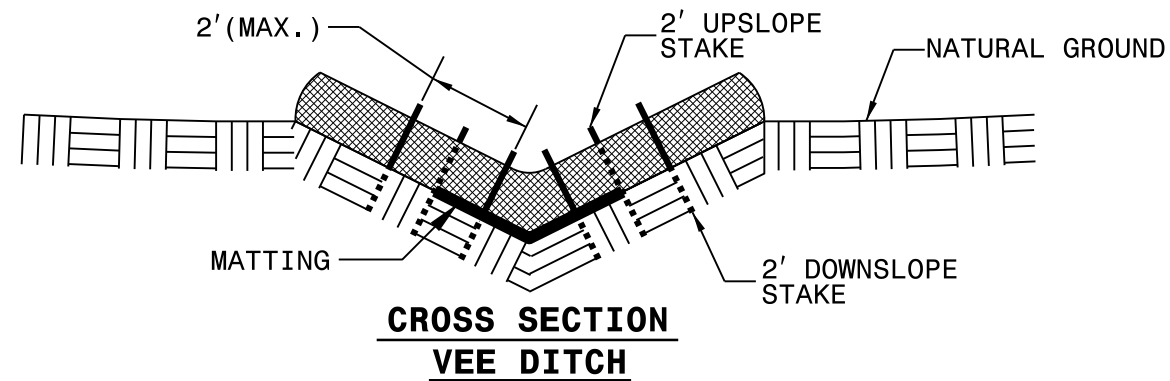
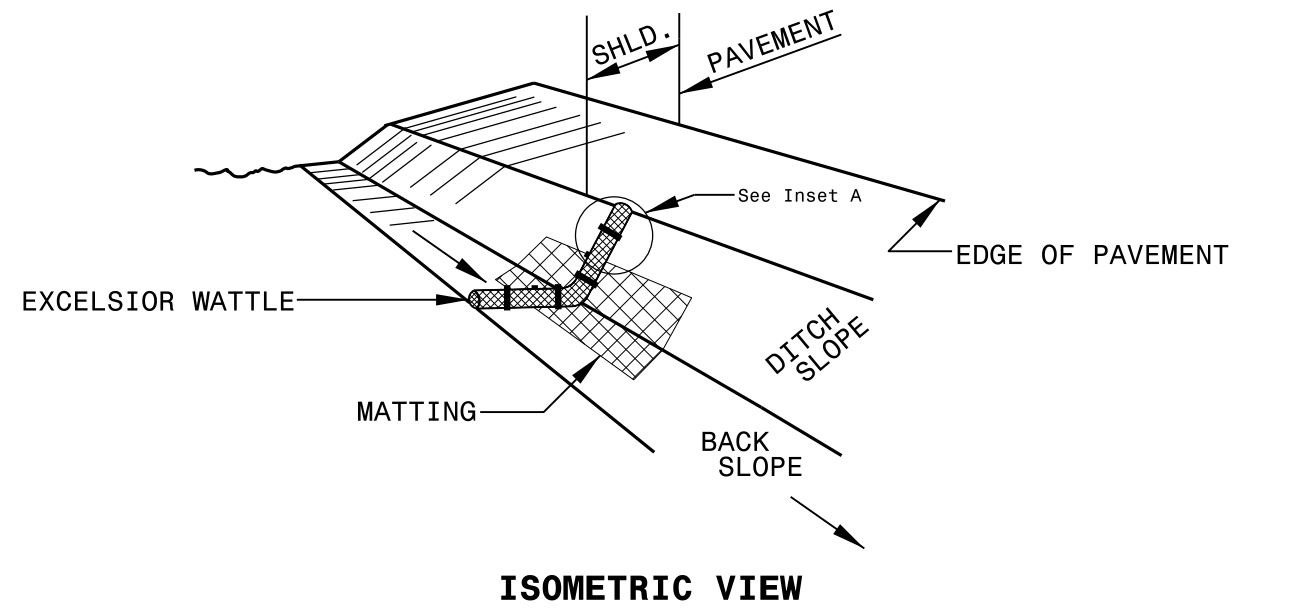
< 5' - 10' Undisturbed buffer from inlet, add wattle



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.

