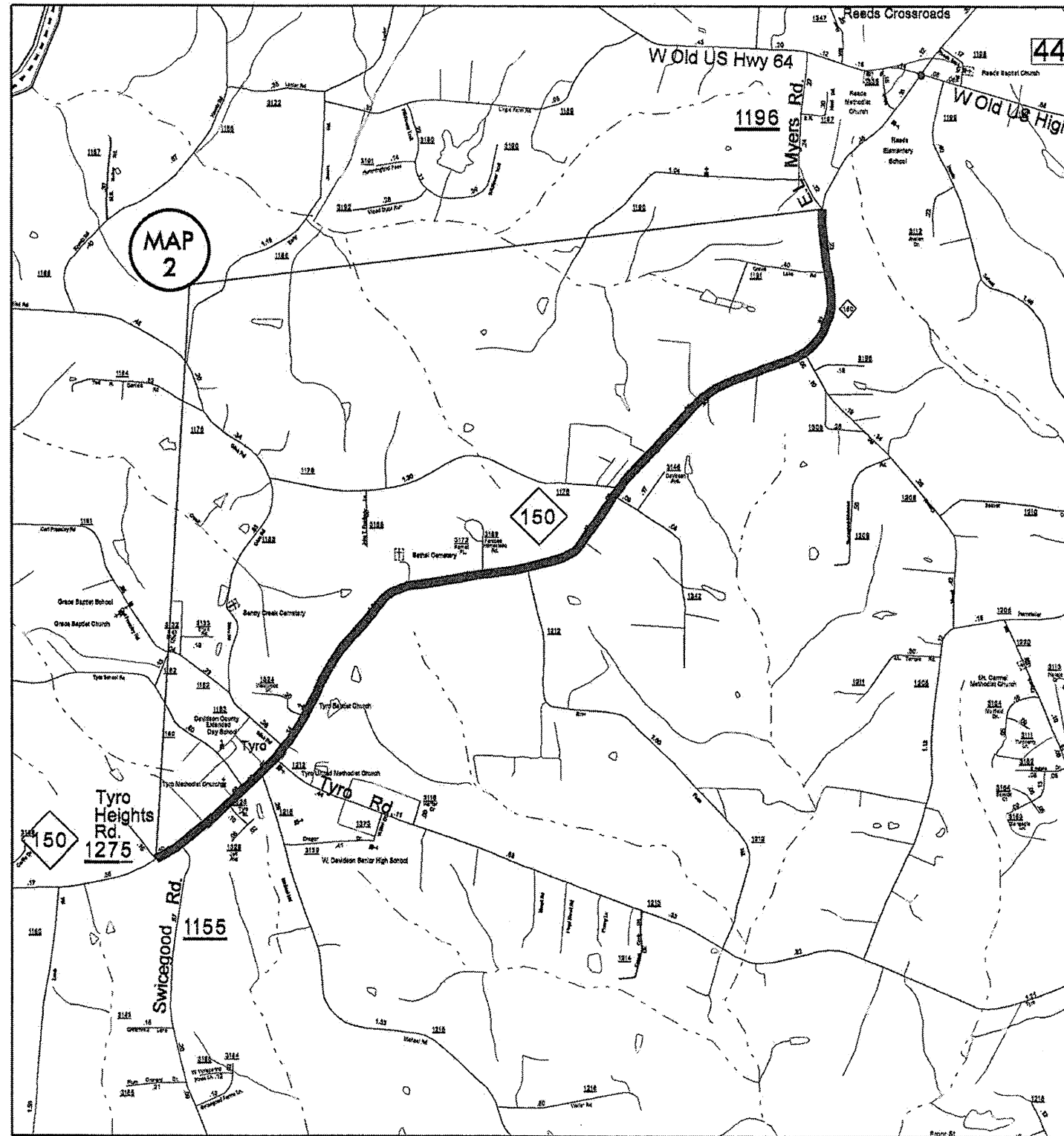


MAP 1
 NC 109

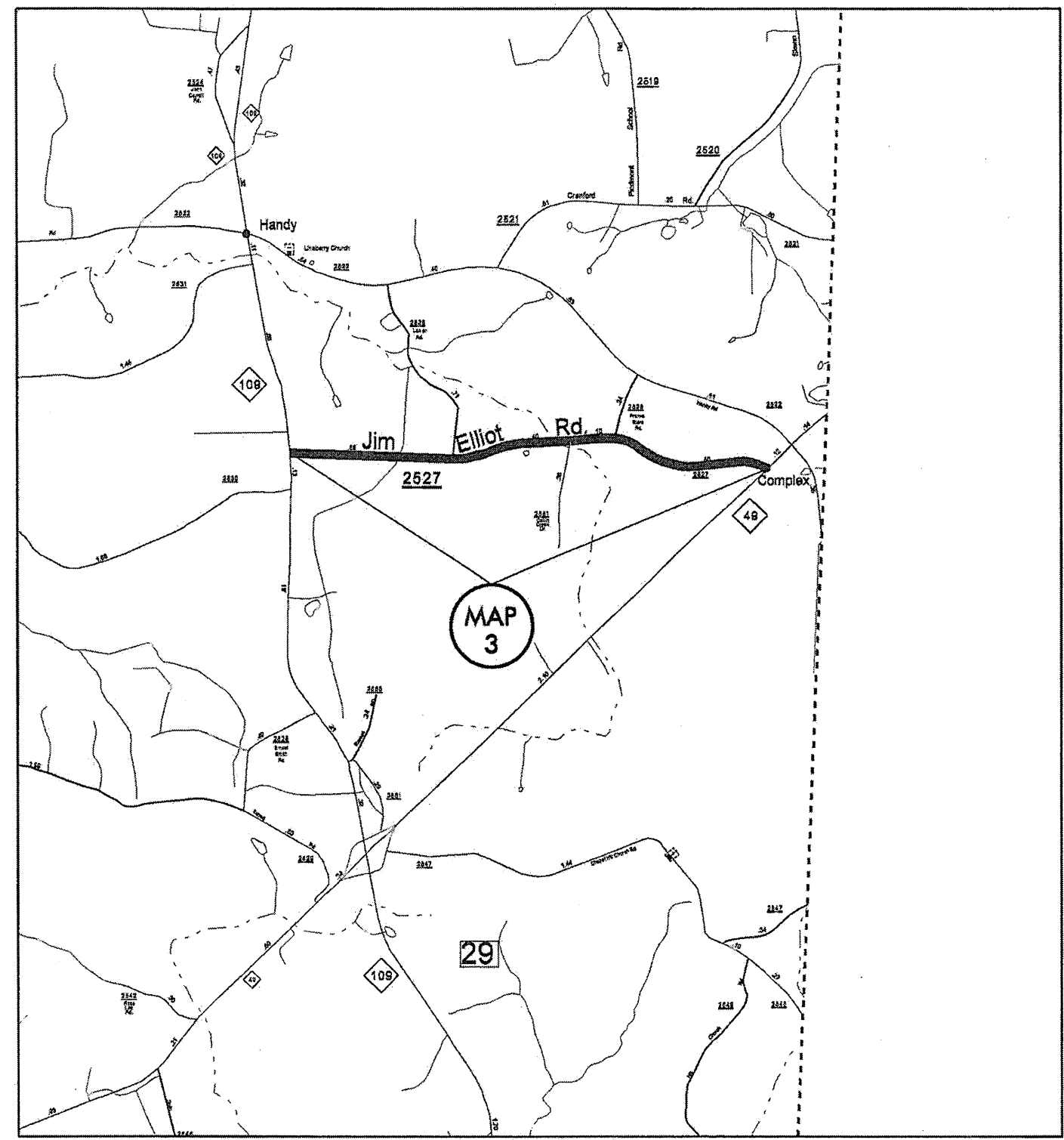
MAP 10
 SR 2318 Regan Rd/
 SR 2256 Jerusalem Rd.

DAVIDSON COUNTY
 NORTH CAROLINA



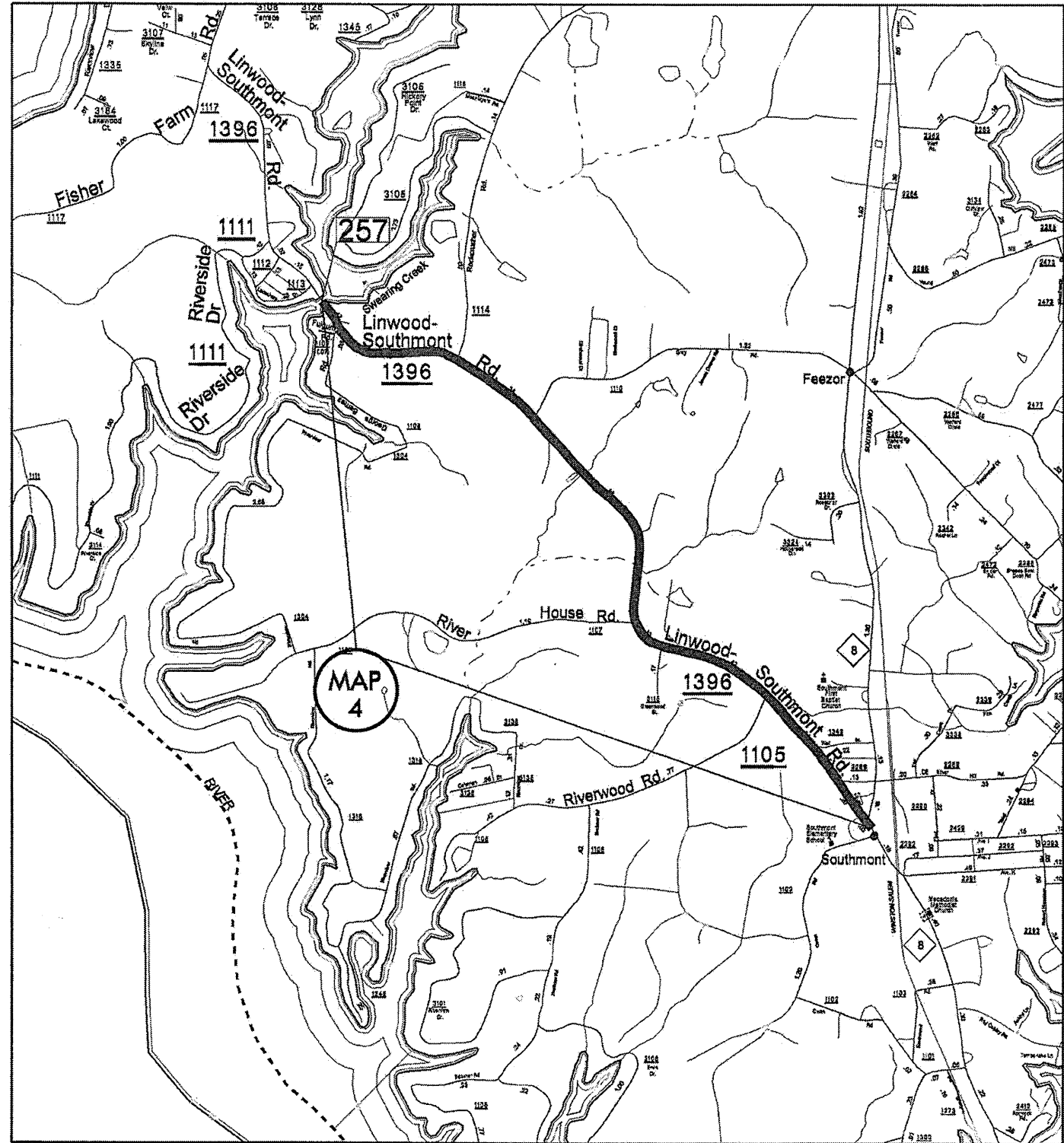
MAP 2
NC 150

DAVIDSON COUNTY
NORTH CAROLINA



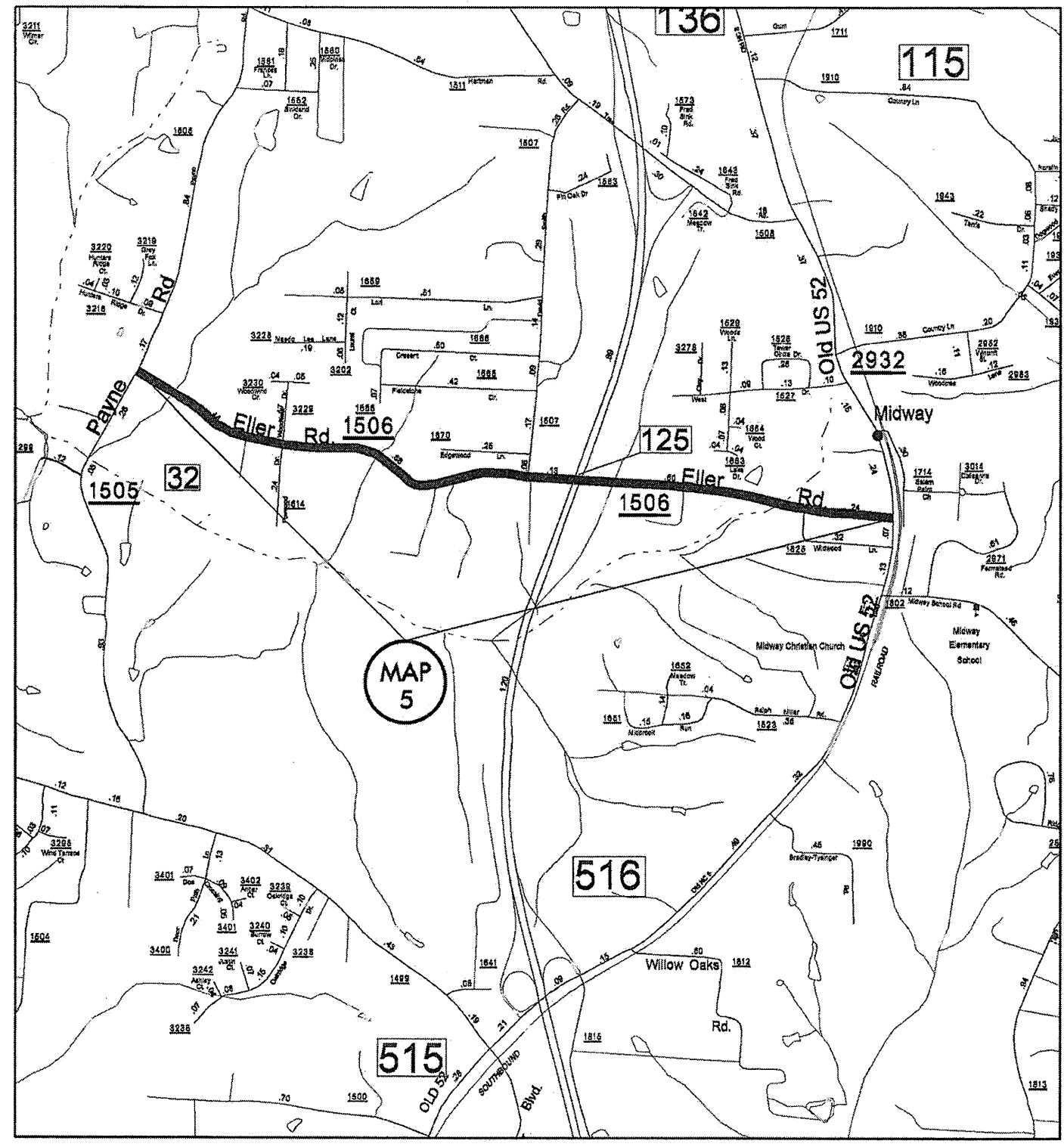
MAP 3
SR 2527 JIM ELLIOT
NO TIE IN MILLING.
NO THERMOPLASTIC MARKINGS, PAINT ONLY.

DAVIDSON COUNTY
NORTH CAROLINA



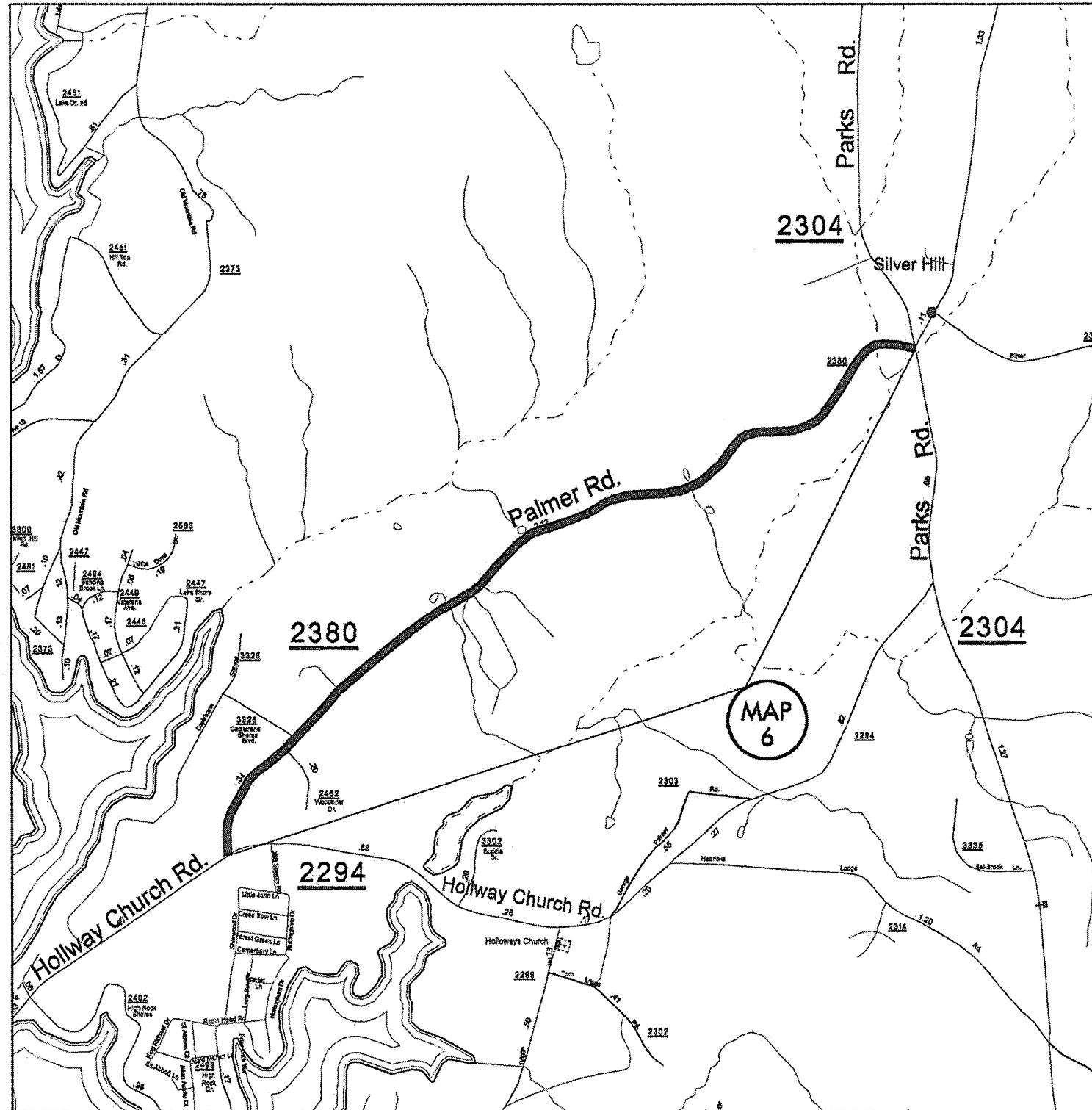
MAP 4
SR 1396 Linwood-Southmont Rd.

DAVIDSON COUNTY
NORTH CAROLINA



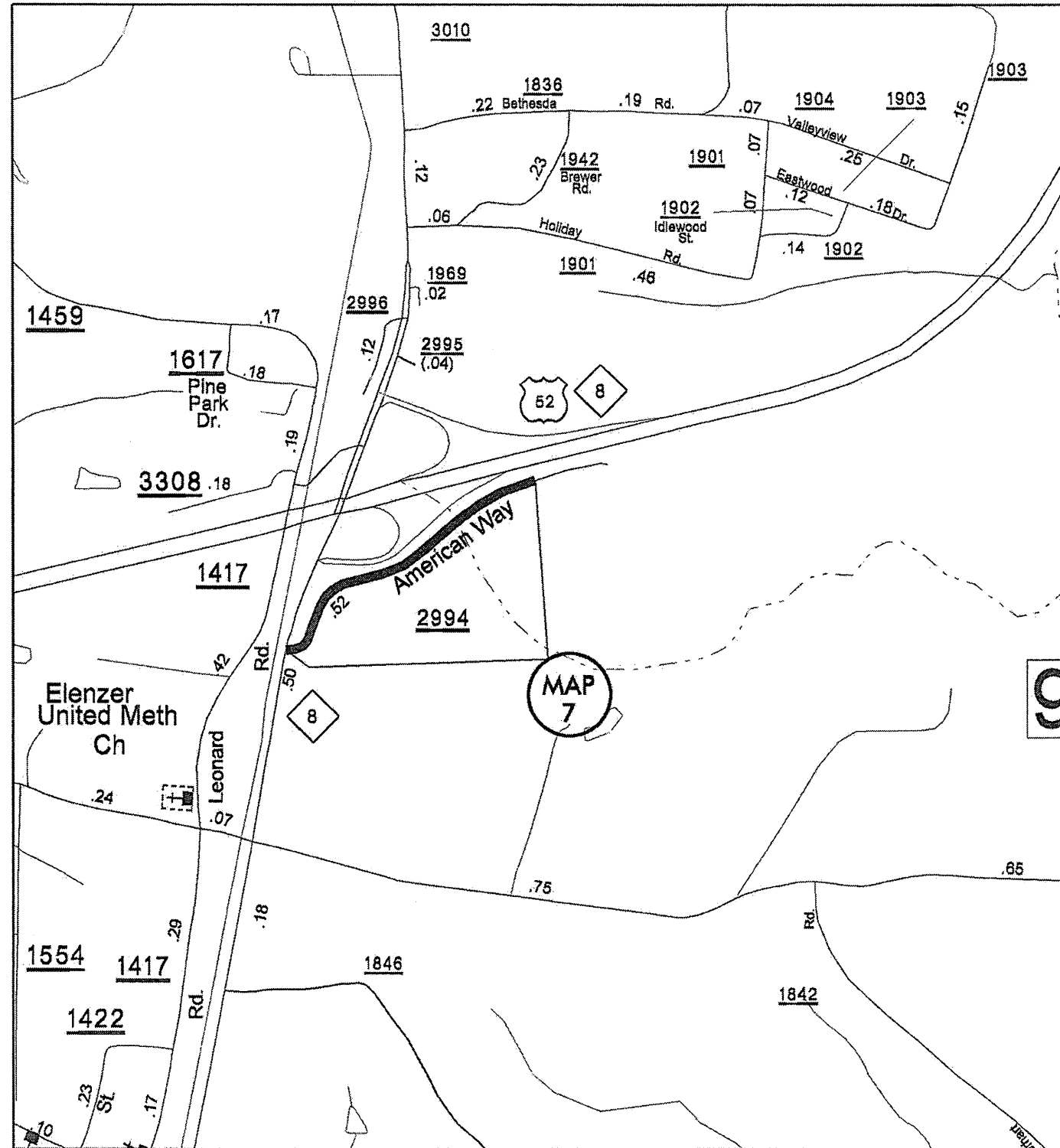
MAP 5
 SR 1506 ELLER RD.
 NO TIE-IN MILL AT Old US 52 (SR 2932).
 Tie into edge of pavement.
 TIE-IN MILL AT PAYNE RD. (SR 1505)

DAVIDSON COUNTY
 NORTH CAROLINA



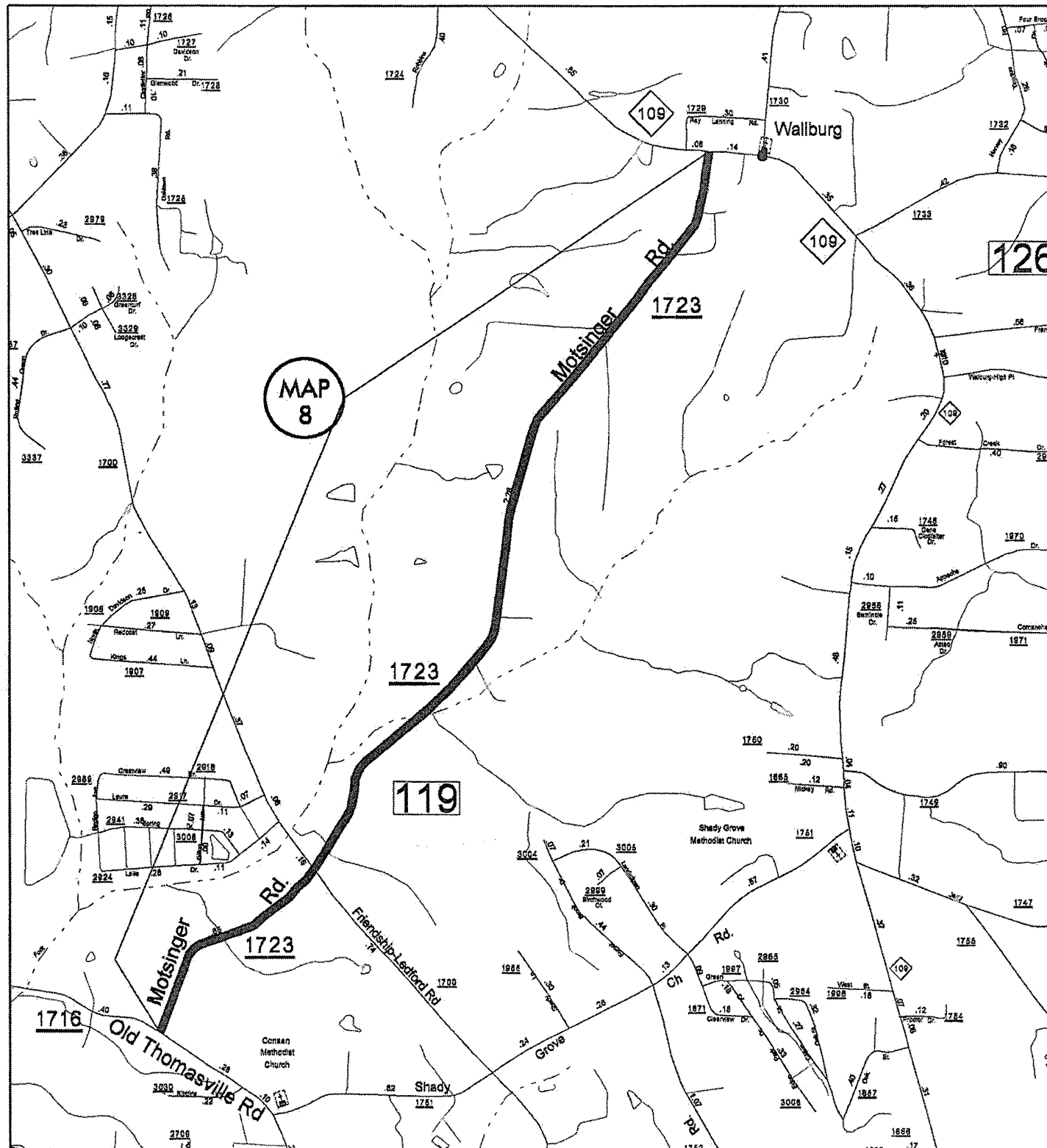
MAP 6
SR 2380 Palmer Rd.
TIE IN MILLING.
NO THERMOPLASTIC MARKINGS, PAINT ONLY.

DAVIDSON COUNTY
NORTH CAROLINA



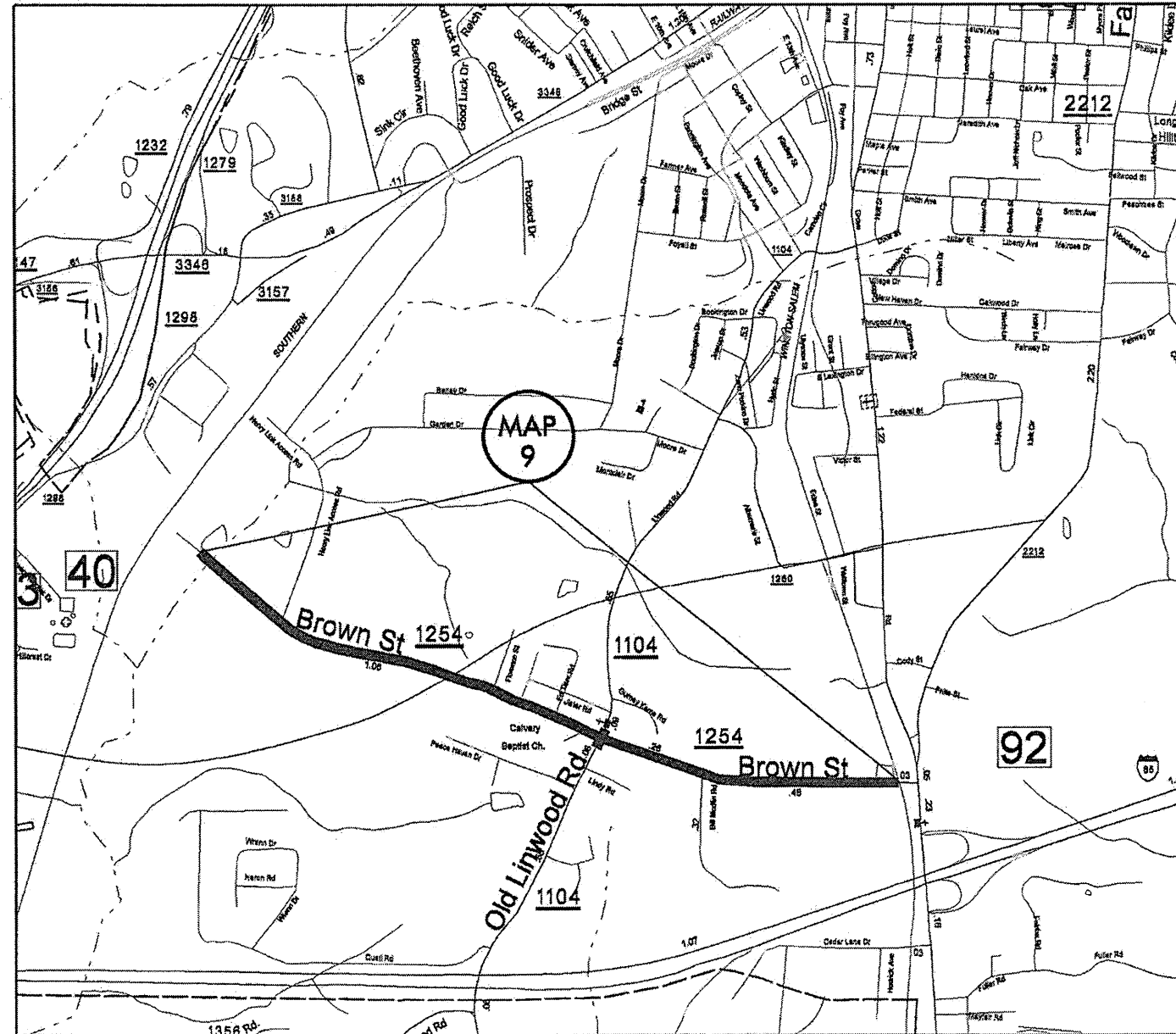
MAP 7
 SR 2994 American Way
 NO TIE IN MILLING.
 NO THERMOPLASTIC MARKINGS.
 NO PAINT.
 Taper Binder and feather Surface
 overlay to NC 8.
 Taper Binder and feather Surface
 overlay to join existing surface
 near Pendelton Industrial Park sign.

DAVIDSON COUNTY
 NORTH CAROLINA



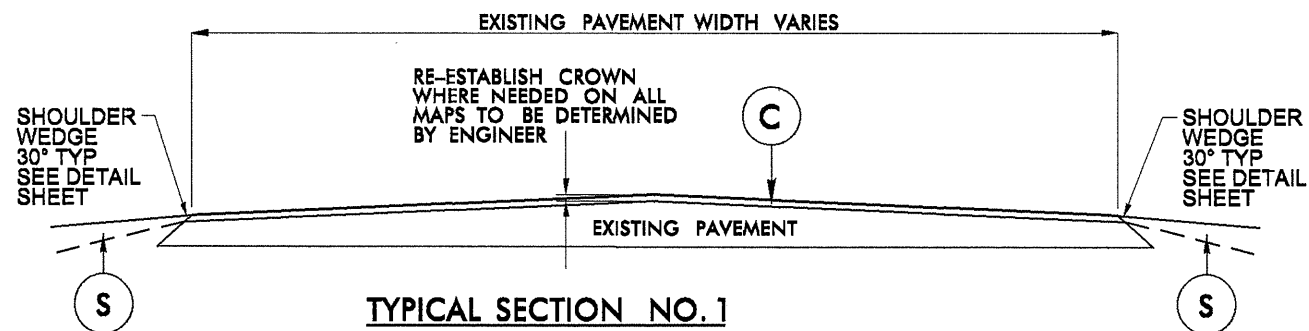
MAP 8
SR 1723 MOTSINGER RD.
Tie new surface into Old Thomasville Rd.
DO NOT Tie-In MILL.
Mill to Tie into edge of pavement each
side of Friendship Ledford Rd. DO NOT
PAVE THROUGH.
Mill to Tie into edge of pavement at
NC 109.

DAVIDSON COUNTY
NORTH CAROLINA



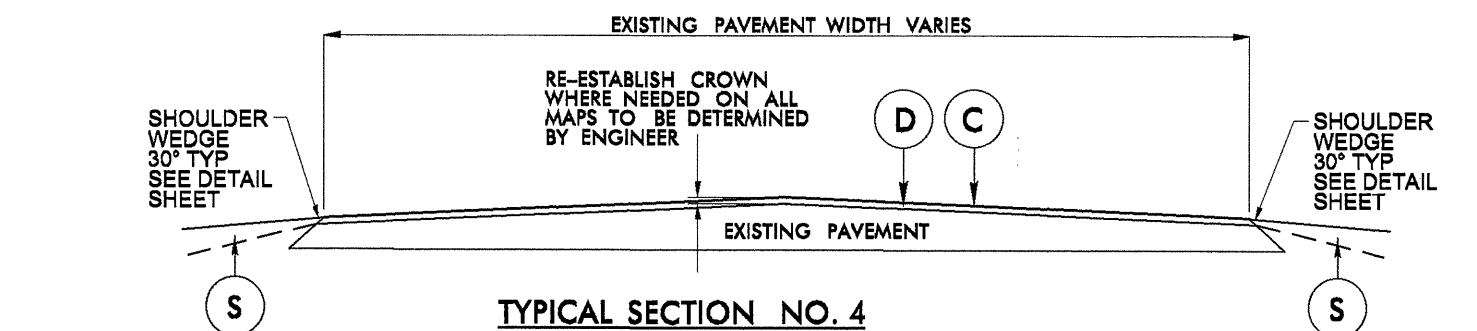
MAP 9
SR 1254 BROWN ST.
 Level Surface with 1½" of S9.5B
 from Old Linwood Rd. west to end of
 maintenance near speed limit sign
 at guardrail. Resurface entire map with
 1½" S9.5B.
 Mill at intersection tie-downs to create
 new tie-in joints on Old Linwood Rd.
 approximately 100 feet each side of
 intersection, Pave through Old Linwood
 Rd.
NO MILLING at Plant entrance at end of
 Map, feather down to Tie In to make a
 smooth transition.

DAVIDSON COUNTY
 NORTH CAROLINA



Shoulder reconstruction in areas only with no outside curb (typ.)

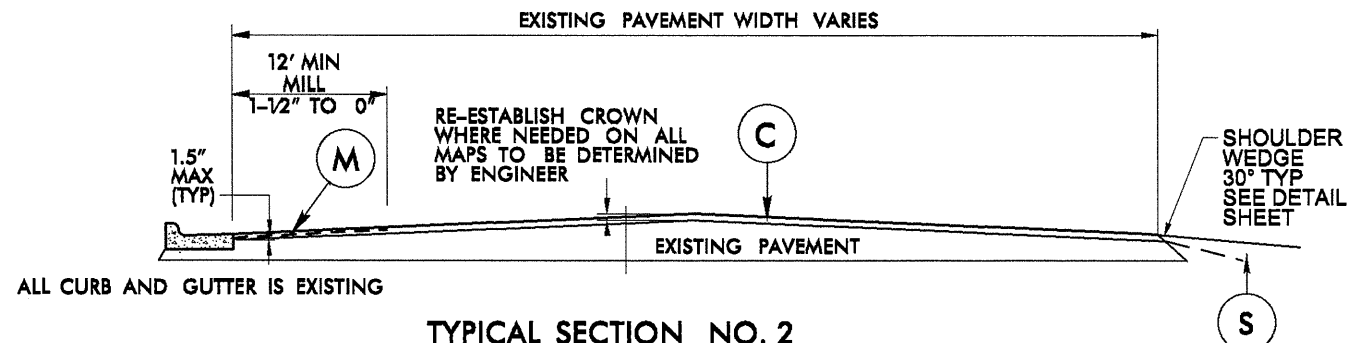
TYPICAL SECTION NO. 1
 MAP NO. 1 NC 109
 MAP NO. 2 NC 150
 MAP NO. 4 LINWOOD-SOUTHMONT (SR 1396)
 MAP NO. 5 ELLER RD. (SR 1506)
 MAP NO. 6 PALMER RD. (SR 2380)
 MAP NO. 8 MOTSINGER RD. (SR 1723)
 MAP NO. 9 BROWN ST. (SR 1254)
 MAP NO. 10 REAGAN RD. (SR 2318)



Shoulder reconstruction in areas only with no outside curb (typ.)

TYPICAL SECTION NO. 4
 MAP NO. 7 AMERICAN WAY (SR 2994)

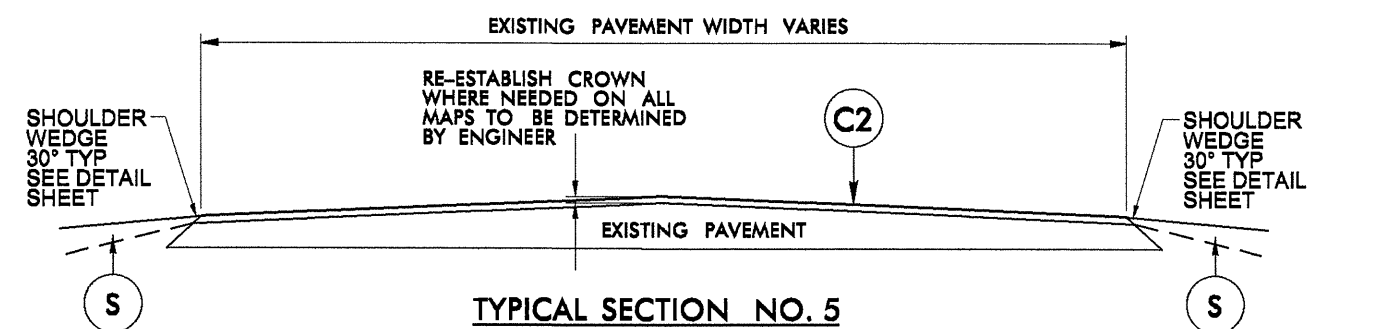
Shoulder reconstruction in areas only with no outside curb (typ.)



ALL CURB AND GUTTER IS EXISTING

TYPICAL SECTION NO. 2
 MAP NO. 2 NC 150

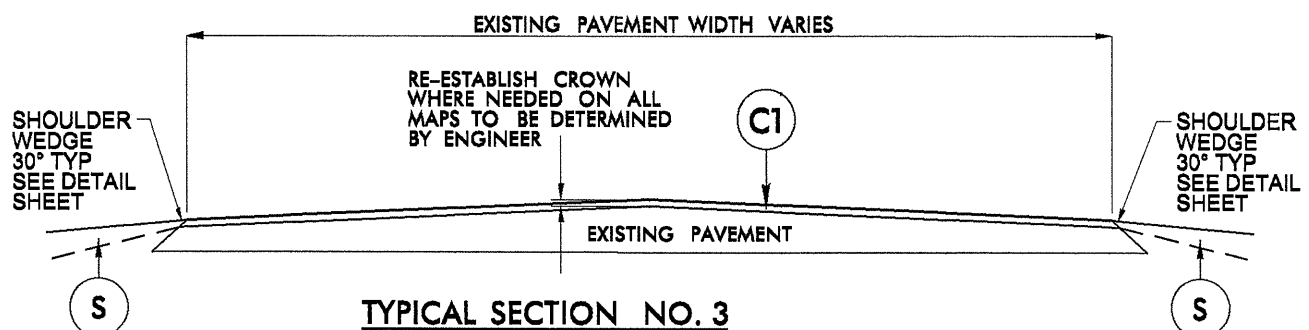
Shoulder reconstruction in areas only with no outside curb (typ.)



Shoulder reconstruction in areas only with no outside curb (typ.)

TYPICAL SECTION NO. 5
 MAP NO. 9 BROWN ST. (SR 1254)

Shoulder reconstruction in areas only with no outside curb (typ.)

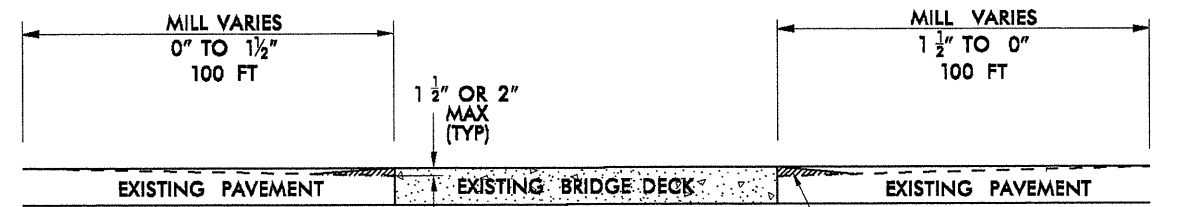


Shoulder reconstruction in areas only with no outside curb (typ.)

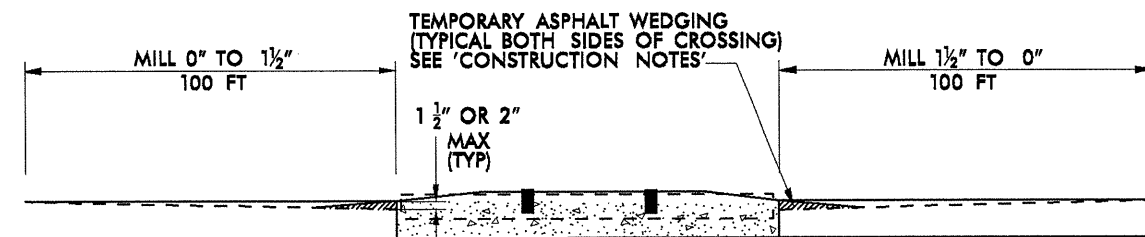
TYPICAL SECTION NO. 3
 MAP NO. 3 JIM ELLIOT RD. (SR 2527)

Shoulder reconstruction in areas only with no outside curb (typ.)

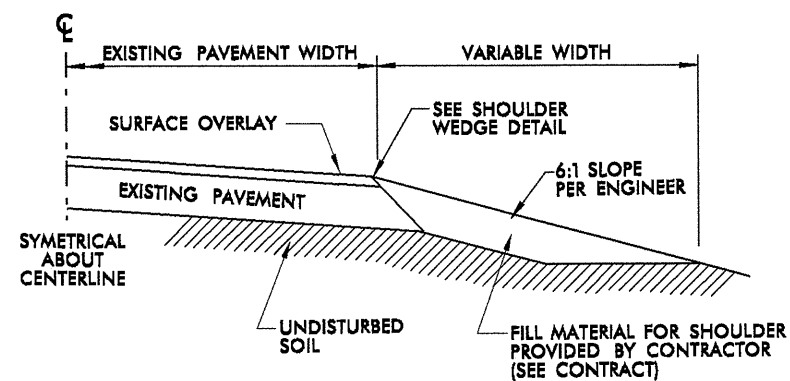
PAVEMENT SCHEDULE	
C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ YD
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD IN EACH OF TWO LAYERS.
D	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, TO BE APPLIED AT AN AVERAGE RATE OF 285 LBS PER SQ YD
M	MILL ASPHALT PAVEMENT, 0" TO 1 1/2"
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT



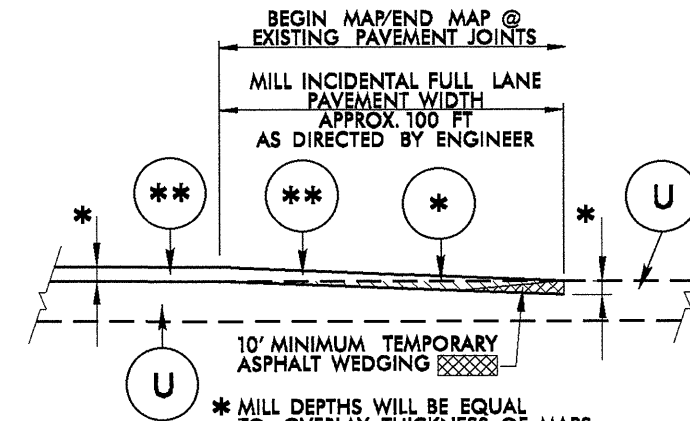
**INCIDENTAL MILLING
BRIDGE APPROACHES**
(SEE BRIDGE DATA SHEET)



**INCIDENTAL MILLING
RAILROAD CROSSING
APPROACHES**



SHOULDER RECONSTRUCTION



* MILL DEPTHS WILL BE EQUAL TO OVERLAY THICKNESS OF MAPS SEE TYPICALS AND BRIDGE DATA SHEETS
** SEE TYPICALS FOR MIX TYPE

INCIDENTAL MILLING AT TIE-IN DETAIL

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
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ YD
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD IN EACH OF TWO LAYERS.
D	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, TO BE APPLIED AT AN AVERAGE RATE OF 285 LBS PER SQ YD
M	MILL ASPHALT PAVEMENT, 0" TO 1 1/2"
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
9CR.10291.140, 9CR.20291.140	12

CONSTRUCTION NOTES:

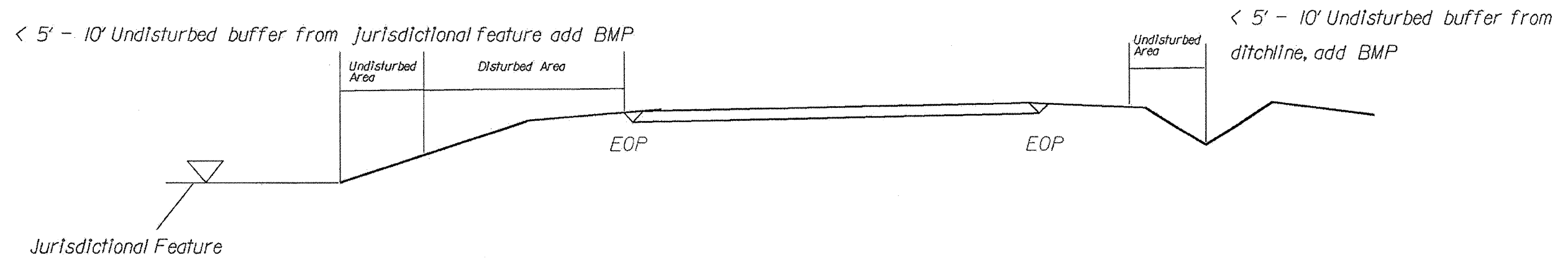
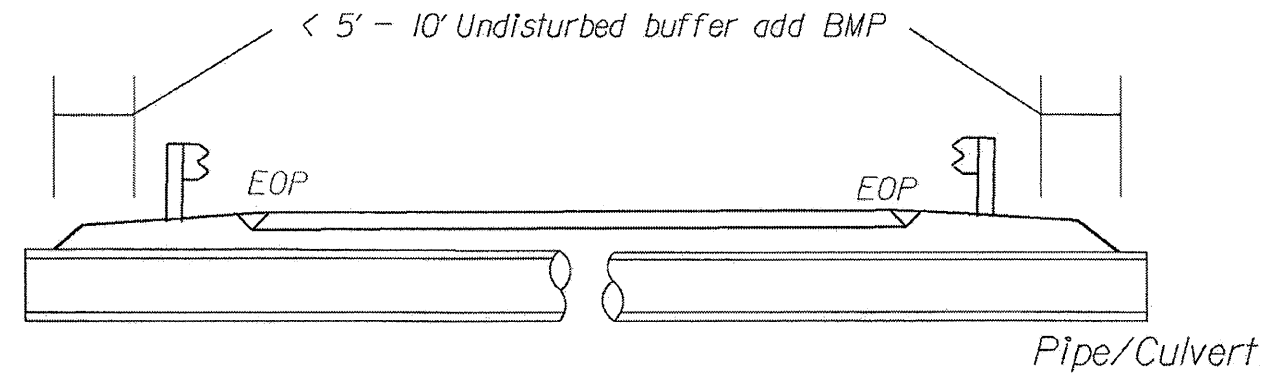
1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".
2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:
 - PHASE 1 - MILLING AND PATCHING (WHEN REQUIRED)
 - PHASE 2 - SURFACE OVERLAY
 - PHASE 3 - SHOULDER DROP-OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
 - 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.
9. 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: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

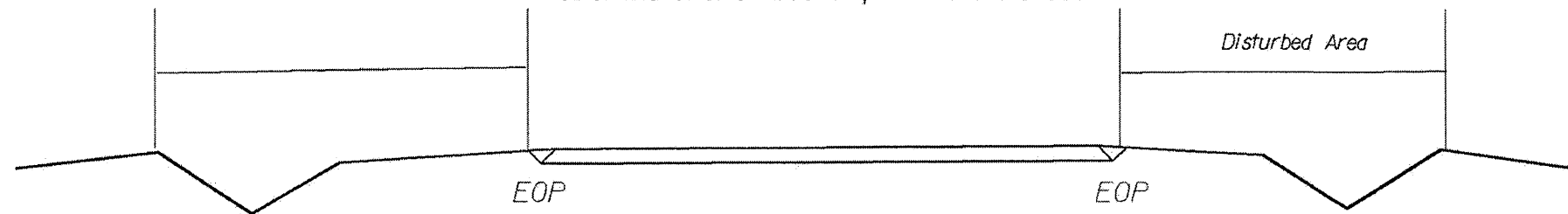
BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL

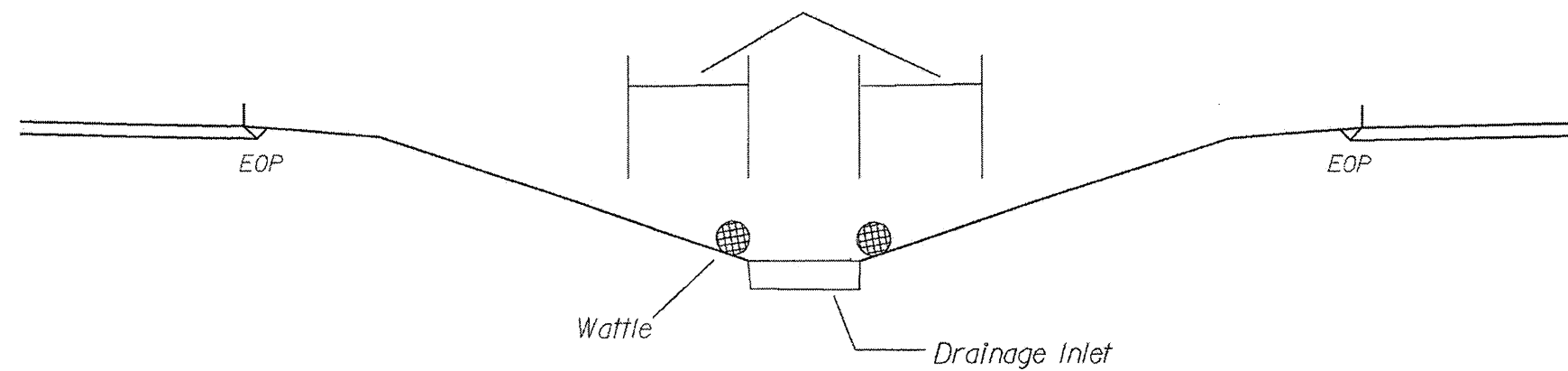
PROJECT REFERENCE NO.	SHEET NO.
9CR.10291.140, 9CR.20291.140	13



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

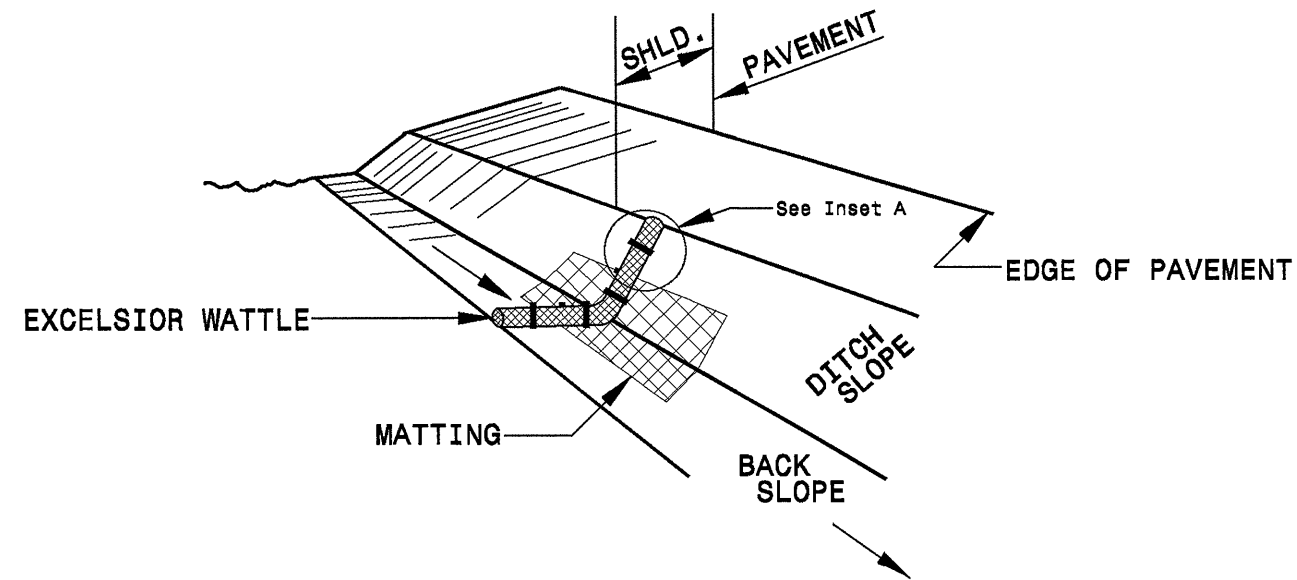


< 5' - 10' Undisturbed buffer from inlet, add wattle

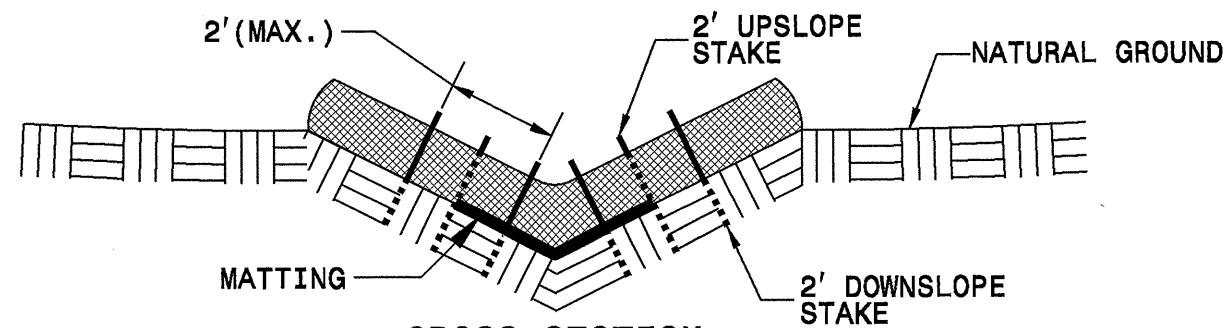


NOT TO SCALE

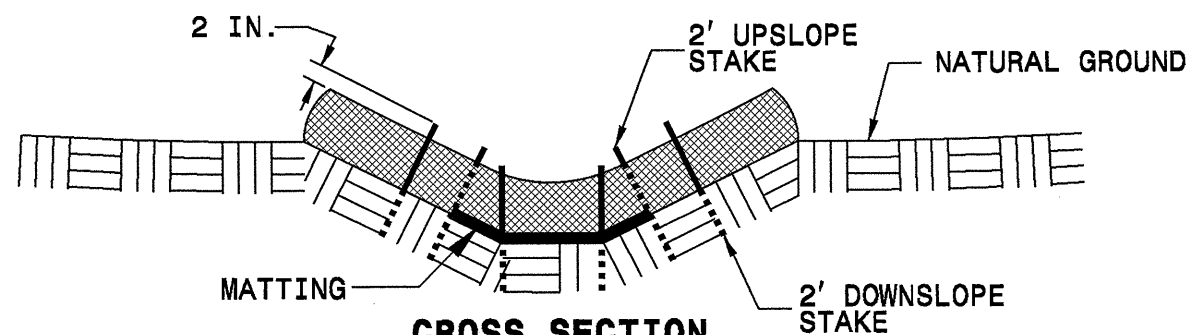
WATTLE DETAIL



ISOMETRIC VIEW



**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

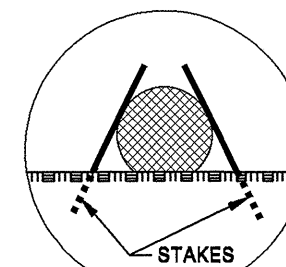
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

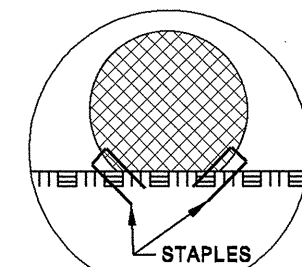
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

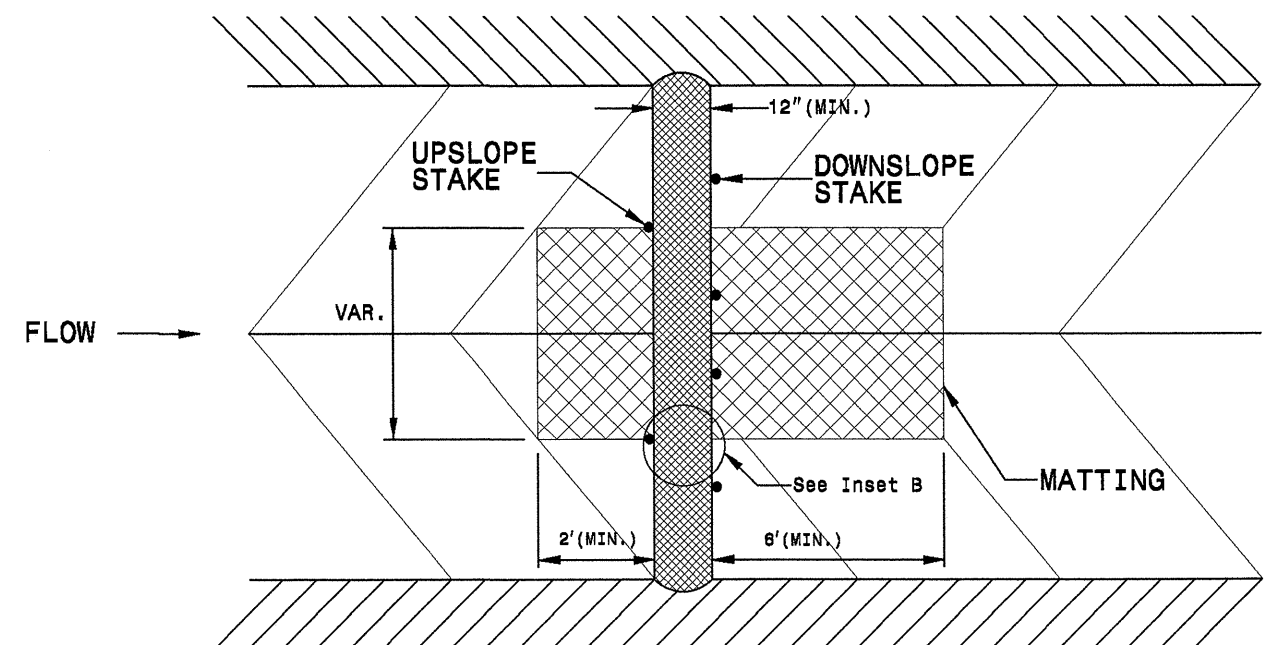
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A

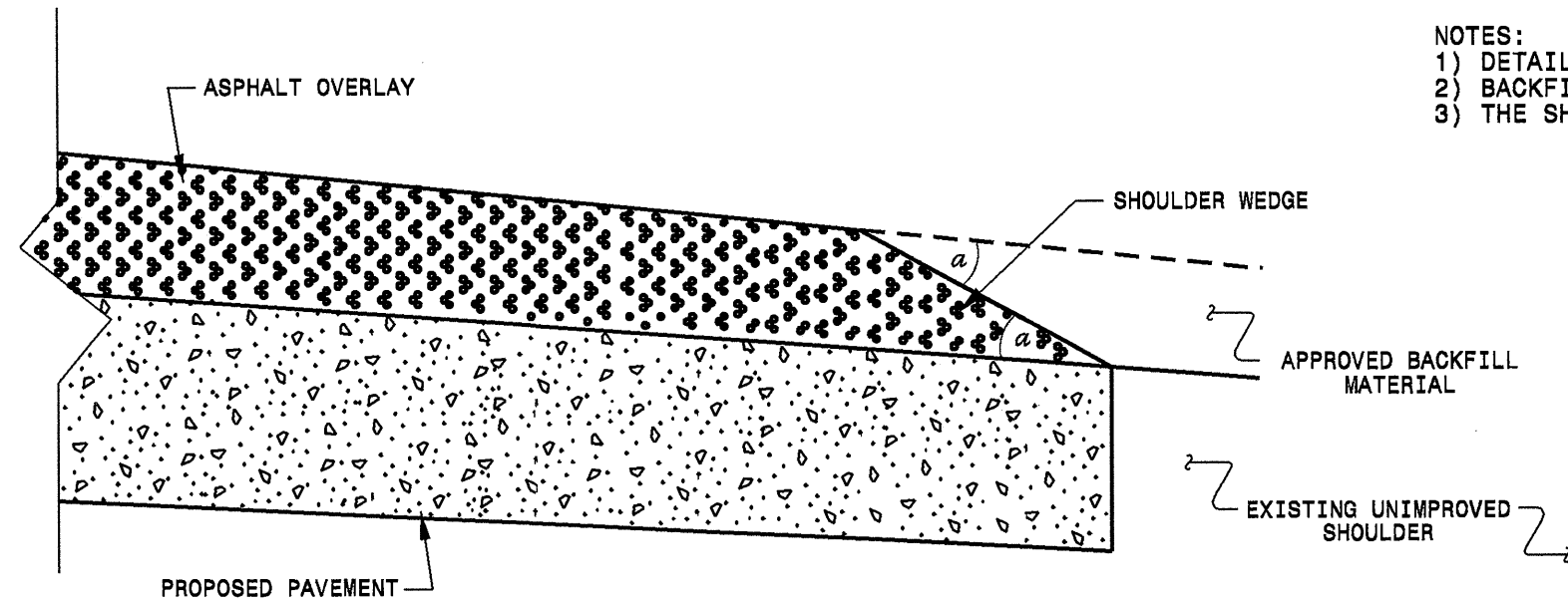


INSET B

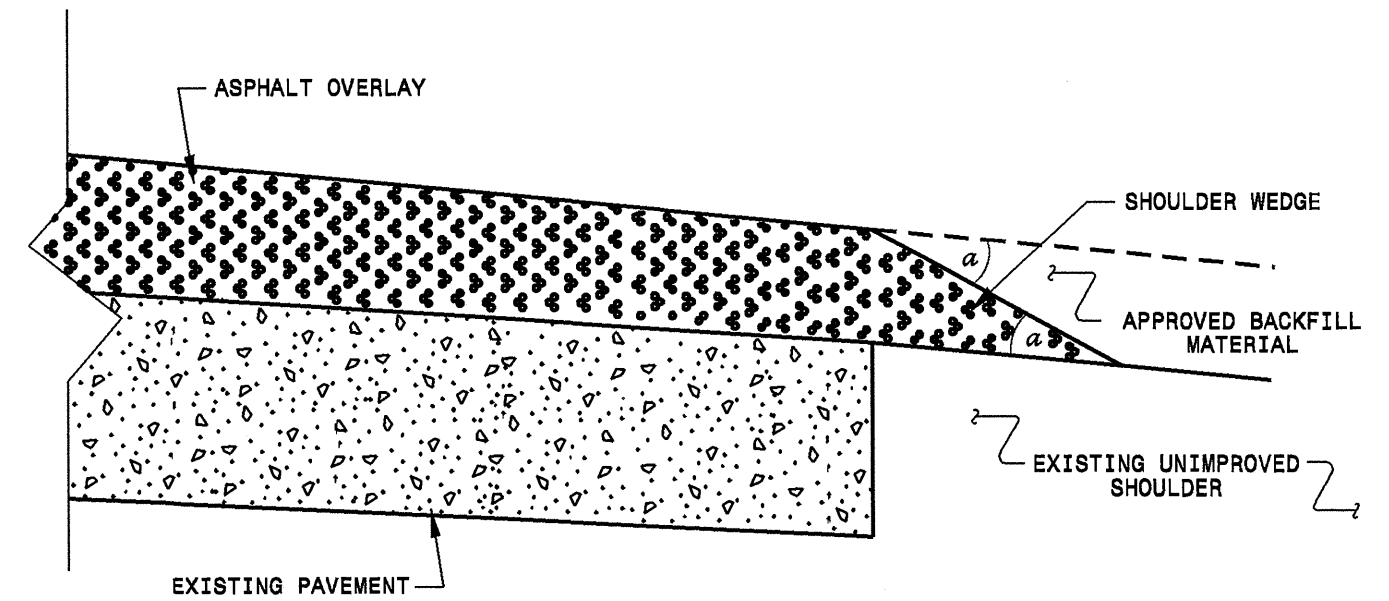


TOP VIEW

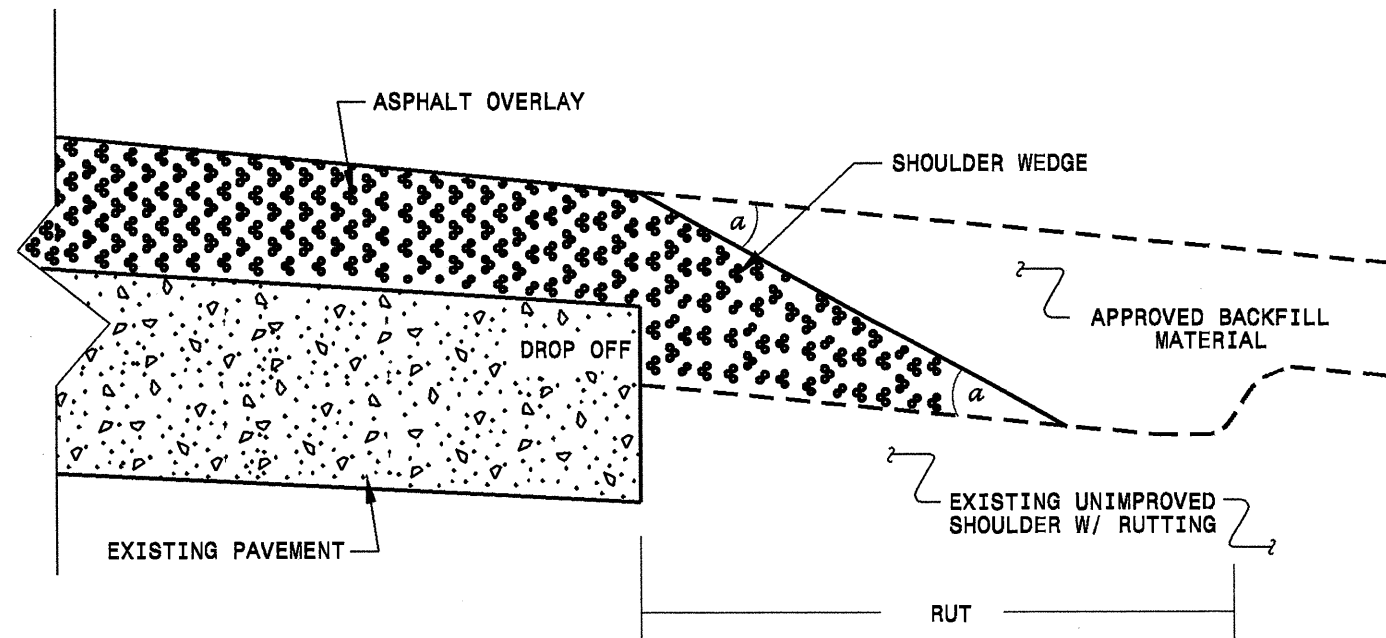
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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:	10/16/12
CHECKED BY:		DATE:	
FILE SPEC.:	s:\usr\details\stand\shouderwedgedetail.dgn		

I:\APR-2013 10:57
 s:\usr\details\stand\shouderwedgedetail.dgn
 I:\APR-2013 10:57
 s:\usr\details\stand\shouderwedgedetail.dgn

Davidson County 2014 Resurfacing Bridges

								PROJECT NO.	SHEET NO.	TOTAL NO.	
								9CR.10291.140, 9CR.20291.140	16		
Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
4	SR 1396	LINWOOD - SOUTHMONT RD.	257	SWEARING CREEK	8 11/16 RC, SLAB	30.1	NA	NA	198	NA	MILL APPROACH; Do not pave on bridge
5	SR 1506	ELLER RD.	125	US 52	8.25 RC, SLAB	36	NA	NA	247	NA	MILL APPROACHES; Do not pave on bridge

PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10291.140, 9CR.20291.140	17	18

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	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, 0" TO 1 1/2" DEPTH SY	INCIDENTAL MILLING SY	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJ. OF METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	WATTLE LF
9CR.10291.140	Davidson	1	NC 109	FROM PAVEMENT JOINT 0.2 MI. SOUTH OF OLD US 64 (SR 2205) TO PAVEMENT JOINT 0.3 MI. SOUTH OF TOMS CREEK CHURCH RD. (SR 2338)	1	NO	NO	5.953	28	714	63	11.91		622		9,973	598	20		2,381	238
		2	NC 150	FROM PAVEMENT JT. NEAR E.L. MEYERS (SR 1196) TO TYRO HEIGHTS RD. (SR 1275)	1,2	NO	NO	3.662	25-36	439	288	7.32	374	556		5,285	317	20	9	1,465	146
TOTAL FOR PROJ NO. 9CR.10291.140								9.615		1,153	351	19.23	374	1,178		15,258	915	40	9	3,846	384
9CR.20291.140	Davidson	3	SR 2527 JIM ELLIOT	FROM NC 49 TO NC 109	3	NO	NO	1.694	20	203	90	3.39				2,469	148	20		678	68
		4	SR 1396 LINWOOD-SOUTHMONT	FROM NC 8 TO BRIDGE # 257 AT SWEARING CREEK	1	NO	NO	2.864	24	344	219	5.73		600		3,124	187	20		1,146	115
		5	SR 1506 ELLER RD.	FROM OLD US 52 (SR 2932) TO PAYNE RD. (SR 1505)	1	NO	NO	2.089	20	251	195	4.18		667		2,279	137	20	1	836	84
		6	SR 2380 PALMER RD.	FROM HOLLOWAY CHURCH RD. (SR 2294) TO PARKS RD. (SR 2304)	1	NO	NO	2.464	20	296	138	4.93		444		2,688	161	20	1	986	99
		7	SR 2994 AMERICAN WAY	FROM NC 8 TO PAVEMENT JOINT NEAR PENDELTON INDUSTRIAL PARK SIGN	4	NO	NO	0.49	20	59	10	0.98			911	535	76			196	20
		8	SR 1723 MOTSINGER RD.	FROM NC 109 EDGE OF PAVEMENT TO OLD THOMASVILLE RD. (SR 1716)	1	NO	NO	2.928	18-22	351	126	5.86		689		3,461	208	20	10	1,171	117
		9	SR 1254 BROWN ST.	FROM WEST SIDE OF RXR CROSSING ON (SR 1254) BROWN ST. TO END OF MAINTENANCE	1,5	NO	NO	1.748	20	332	177	3.50		1,177		3,043	183	20	6	699	70
		10	SR 2318 REGAN RD./SR 2256 JERUSALEM RD.	FROM OLD HWY. 109 (SR 2416) TO YOUNG RD. (SR 2257)	1	NO	NO	4.658	22	559	246	9.32		489		5,082	305	20	3	1,863	186
TOTAL FOR PROJ NO. 9CR.20291.140								18.935		2,395	1,201	37.89		4,066	911	22,681	1,405	140	21	7,575	759
GRAND TOTAL								28.55		3,548	1,552	57.12	374	5,244	911	37,939	2,320	180	30	11,421	1,143

PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10291.140, 9CR.20291.140	18	18

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4685000000-E	4686000000-E			4695000000-E	4705000000-E	4710000000-E	4721000000-E			4725000000-E			4810000000-E		4830000000-E	4835000000-E	4840000000-N		4905000000-N	
										4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	8" X 90 M YELLOW THERMO	16" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO RXR 120 M	THERMO MSG SCHOOL 120 M	THERMO MSG ONLY 120 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & RT ARROW 90 M	4" YELLOW PAINT	4" WHITE PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG RXR	PAINT MSG SCHOOL	SNOW PLOWABLE MARKERS		
9CR.10291.140	Davidson	1	NC 109	FROM PAVEMENT JOINT 0.2 MI. SOUTH OF OLD US 64 (SR 2205) TO PAVEMENT JOINT 0.3 MI. SOUTH OF TOMS CREEK CHURCH RD. (SR 2338)		2	2WU	5.953	28	64,054	2,924	67,224	426	100	164	4	12	8	5	13					100	150	4	12	393	
		2	NC 150	FROM PAVEMENT JT. NEAR E.L. MEYERS (SR 1196) TO TYRO HEIGHTS RD. (SR 1275)		2	2WU	3.662	25	39,403	467	39,403	195		139				11	2	2							242		
TOTAL FOR PROJ NO. 9CR.10291.140										9,615	103,457	3,391	106,627	621	100	303	4	12	8	16	15	2			100	150	4	12	635	
										110,018										24			33			16				
9CR.20291.140	Davidson	3	SR 2527 JIM ELLIOT	FROM NC 49 TO NC 109	1	2	2WU	1.694	20																					
		4	SR 1396 LINWOOD-SOUTHMONT	FROM NC 8 TO BRIDGE # 257 AT SWEARING CREEK	1	2	2WU	2.864	24	30,817	124	30,244																		
		5	SR 1506 ELLER RD.	FROM OLD US 52 (SR 2932) TO PAYNE RD. (SR 1505)	1	2	2WU	2.089	20	22,478	68	22,060																		
		6	SR 2380 PALMER RD.	FROM HOLLOWAY CHURCH RD. (SR 2294) TO PARKS RD. (SR 2304)	1	2	2WU	2.464	20															26,020	26,513					
		7	SR 2994 AMERICAN WAY	FROM NC 8 TO PAVEMENT JOINT NEAR PENDELTON INDUSTRIAL PARK SIGN		2	2WU	0.49	20						30															
		8	SR 1723 MOTSINGER RD.	FROM NC 109 EDGE OF PAVEMENT TO OLD THOMASVILLE RD. (SR 1716)		2	2WU	2.928	18	31,505	320	32,330	229		176				1	1						100	12			
		9	SR 1254 BROWN ST.	FROM WEST SIDE OF RXR CROSSING ON (SR 1254) BROWN ST. TO END OF MAINTENANCE		2	2WU	1.748	20	18,459	115	18,919	15	100	108	4			1						100	108	4			
		10	SR 2318 REGAN RD./SR 2256 JERUSALEM RD.	FROM OLD HWY. 109 (SR 2416) TO YOUNG RD. (SR 2257)	1	2	2WU	4.658	22	50,120	66	49,188																		
TOTAL FOR PROJ NO. 9CR.20291.140										18,935	153,379	693	152,741	244	100	314	4	12		2	1			43,909	44,776	100	208	4	12	
										153,434										16			3			88,685		16		
GRAND TOTAL									28.55	256,836	4,084	259,368	865	200	617	8	24	8	18	16	2	43,909	44,776	200	358	8	24	635		
										263,452										40			36			88,685		32		