

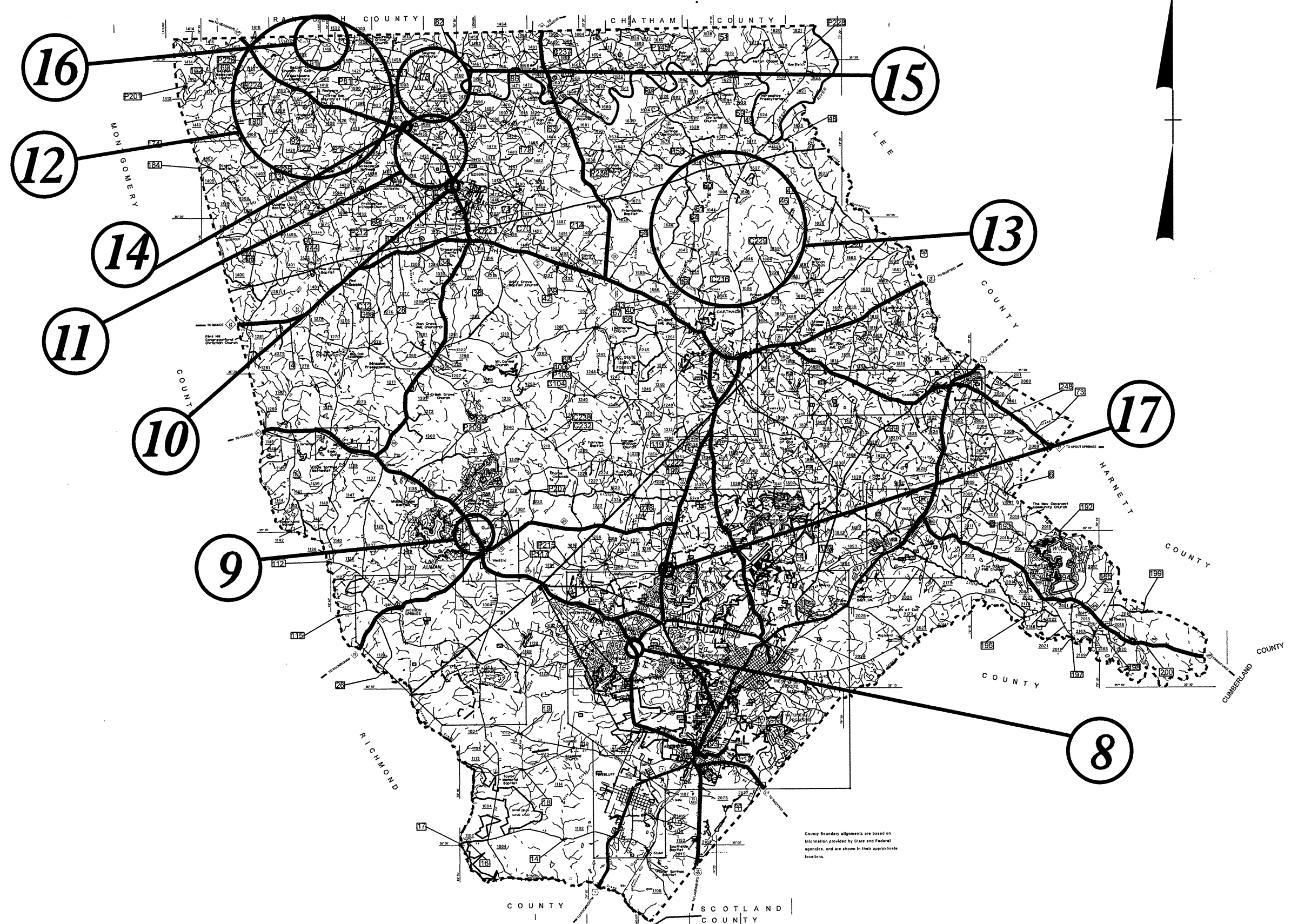
LEE COUNTY

5/28/99

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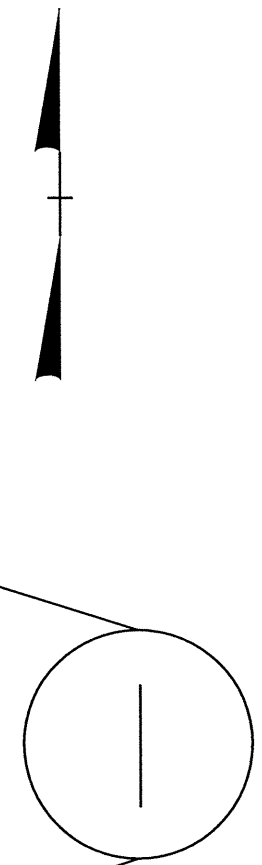
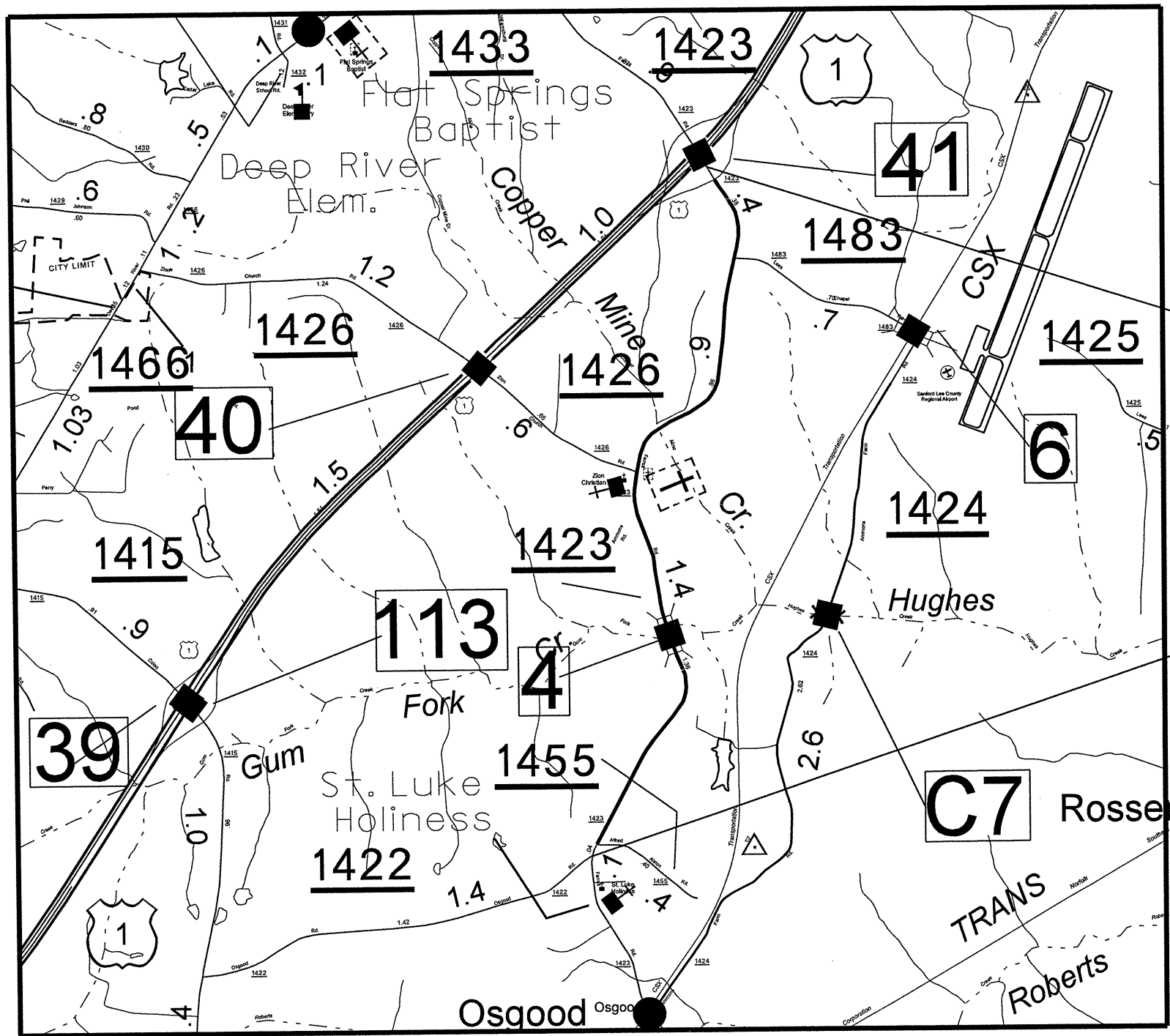
5/28/99

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County Boundary alignments are based on information provided by State and Federal agencies, and are shown in their approximate locations.

MOORE COUNTY



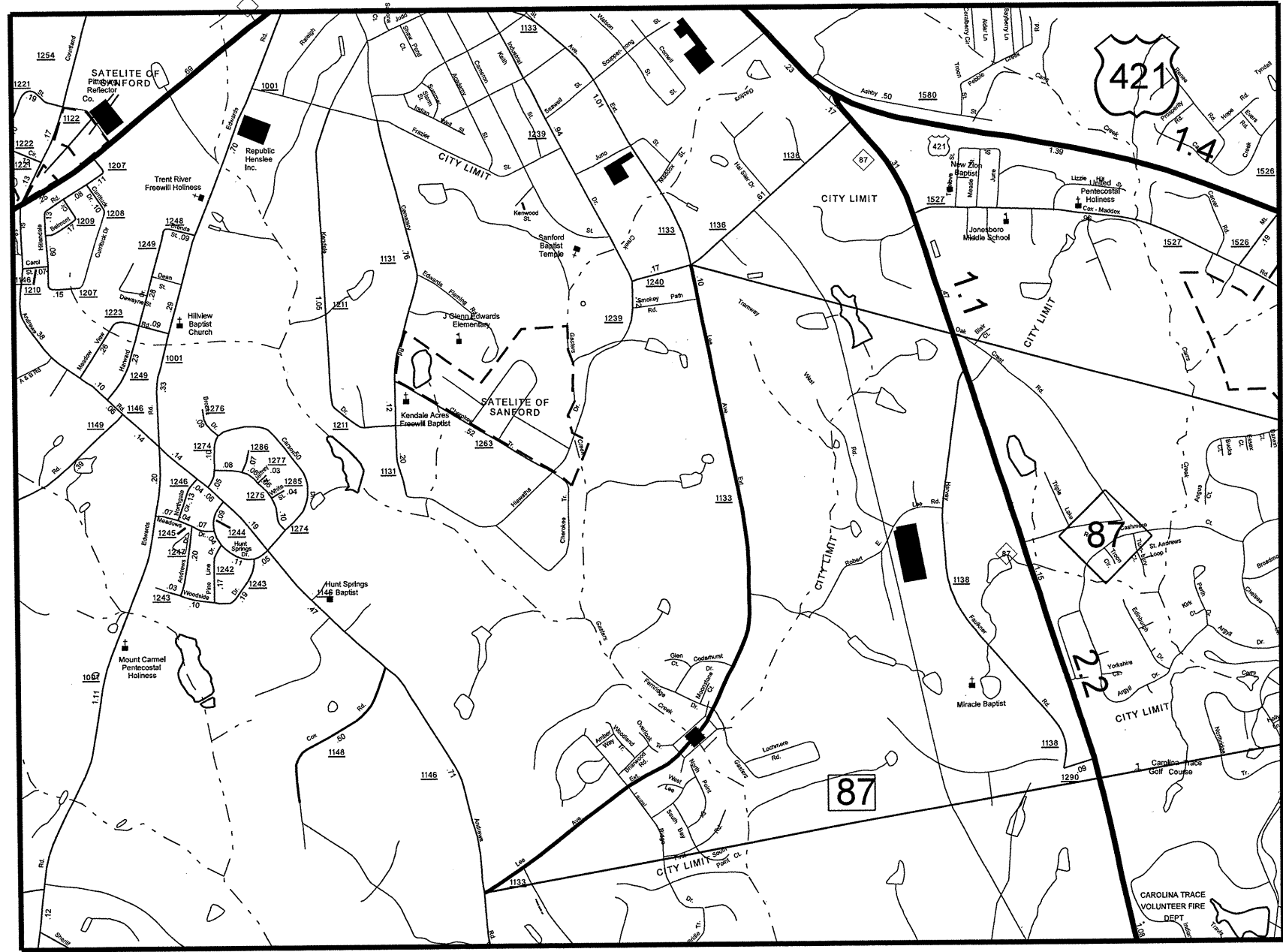
VICINITY MAP

LEE COUNTY

5/28/99
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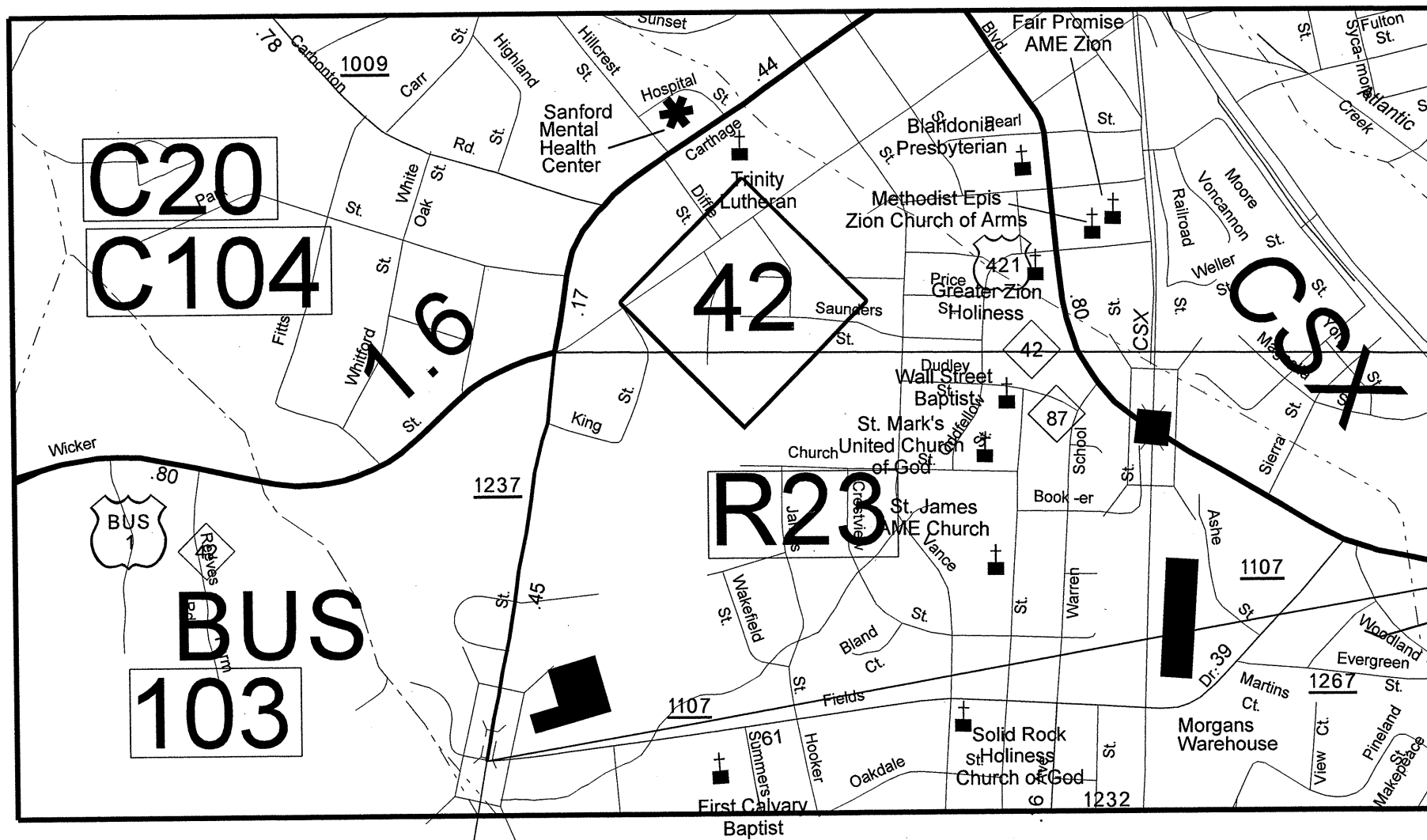
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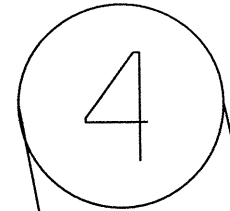
VICINITY MAP

LEE COUNTY

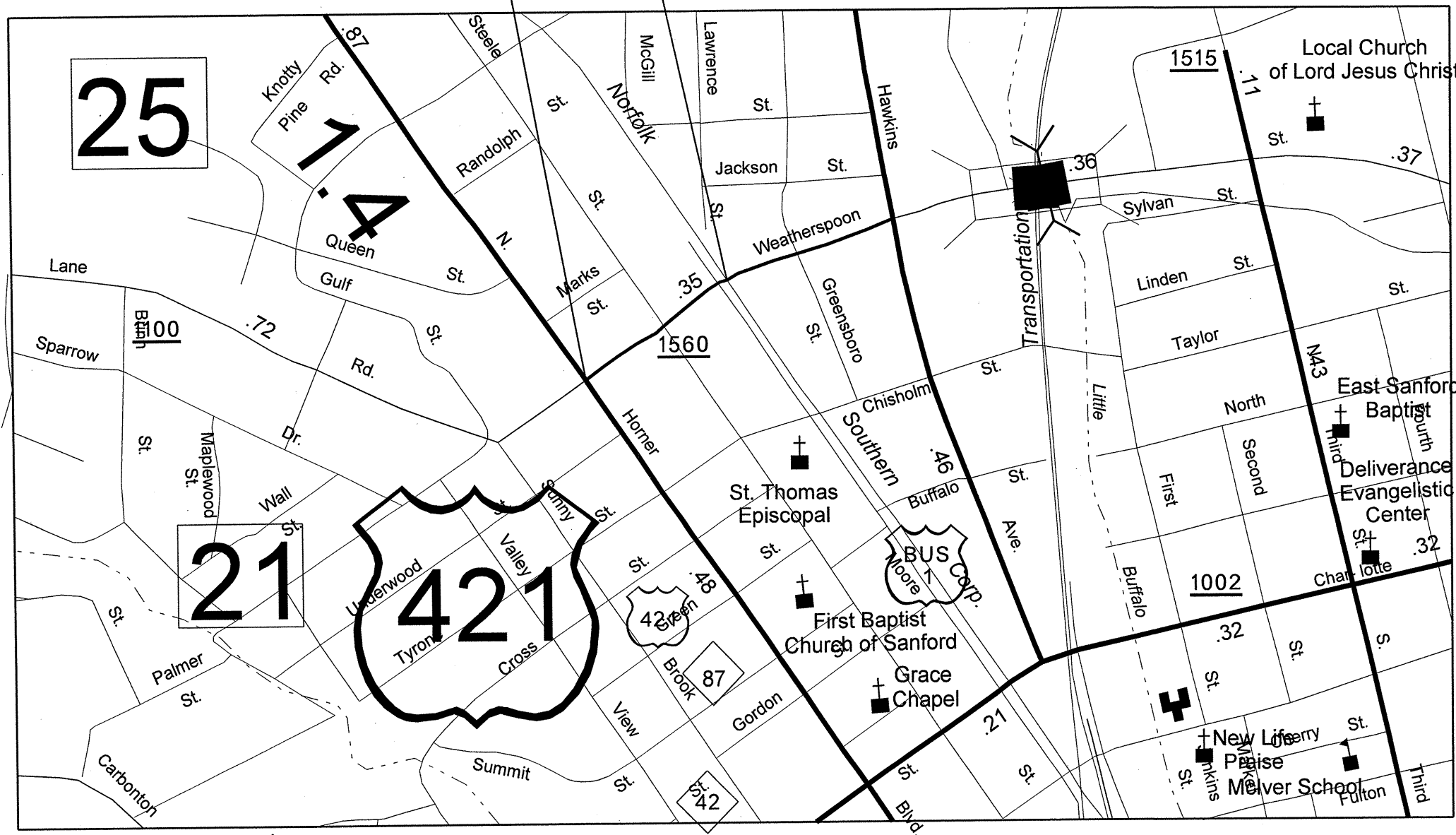


VICINITY MAP

LEE COUNTY



SENSITIVE AREA

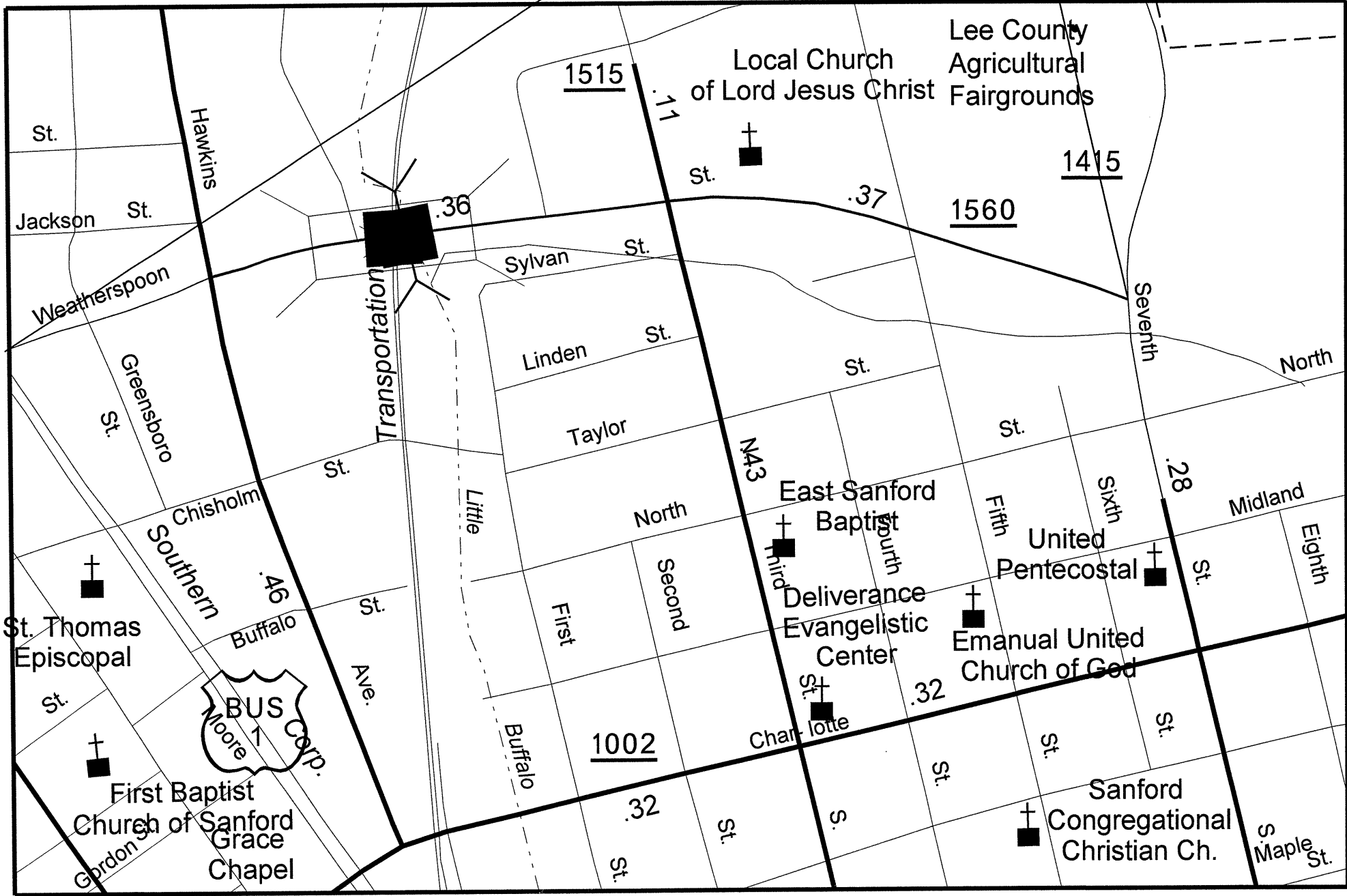


VICINITY MAP

LEE COUNTY

5

SENSITIVE AREA

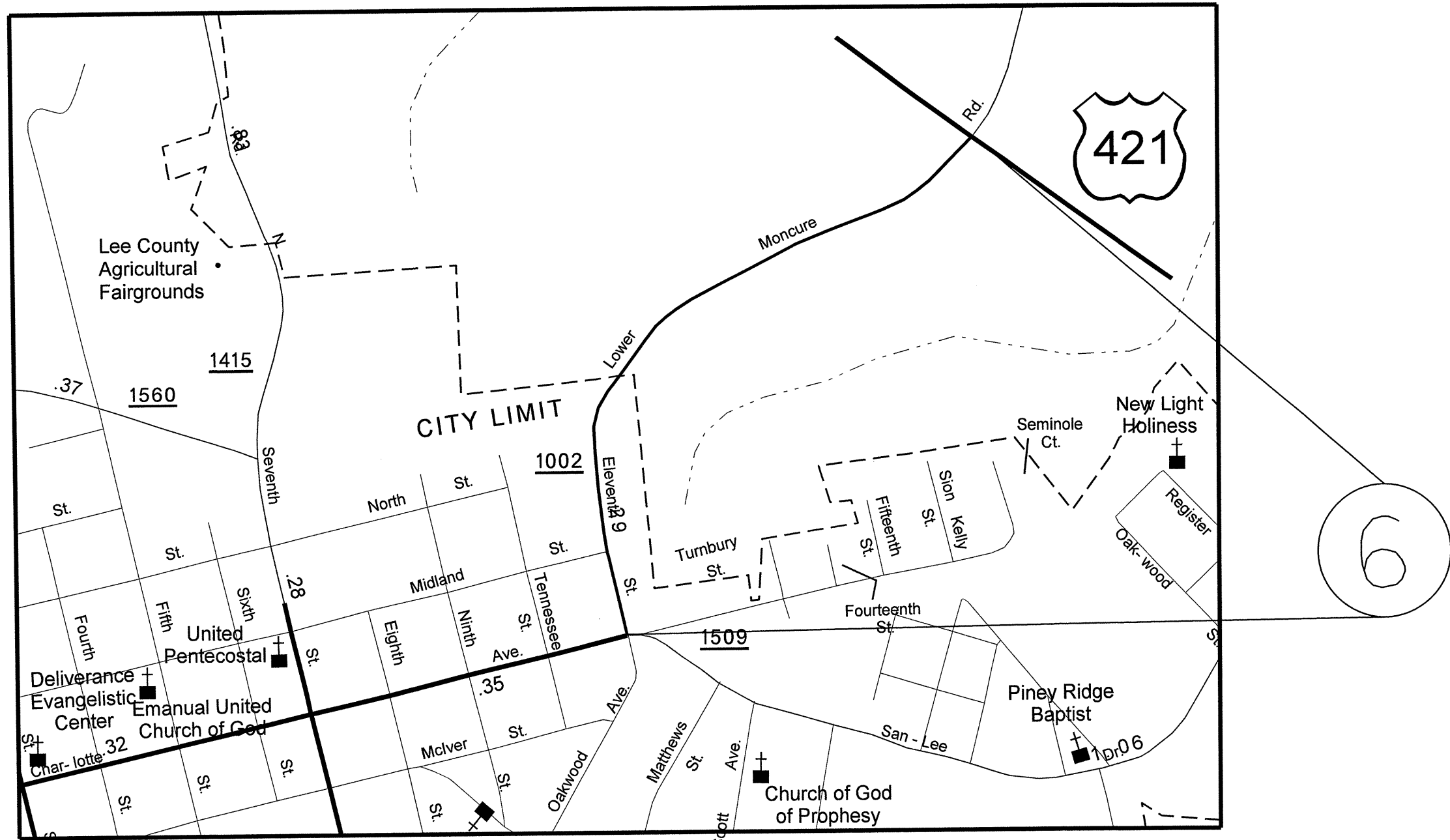


VICINITY MAP

LEE COUNTY

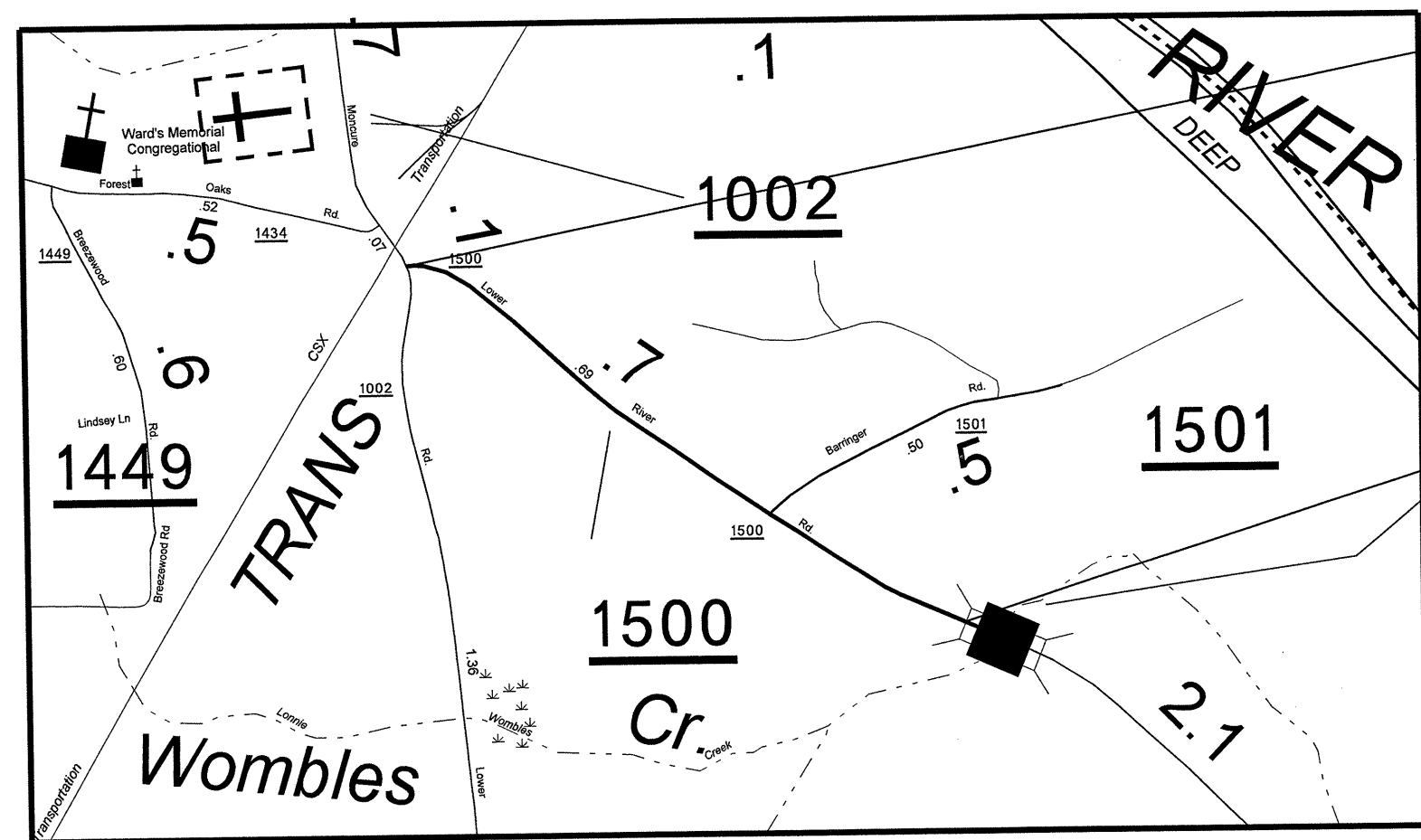
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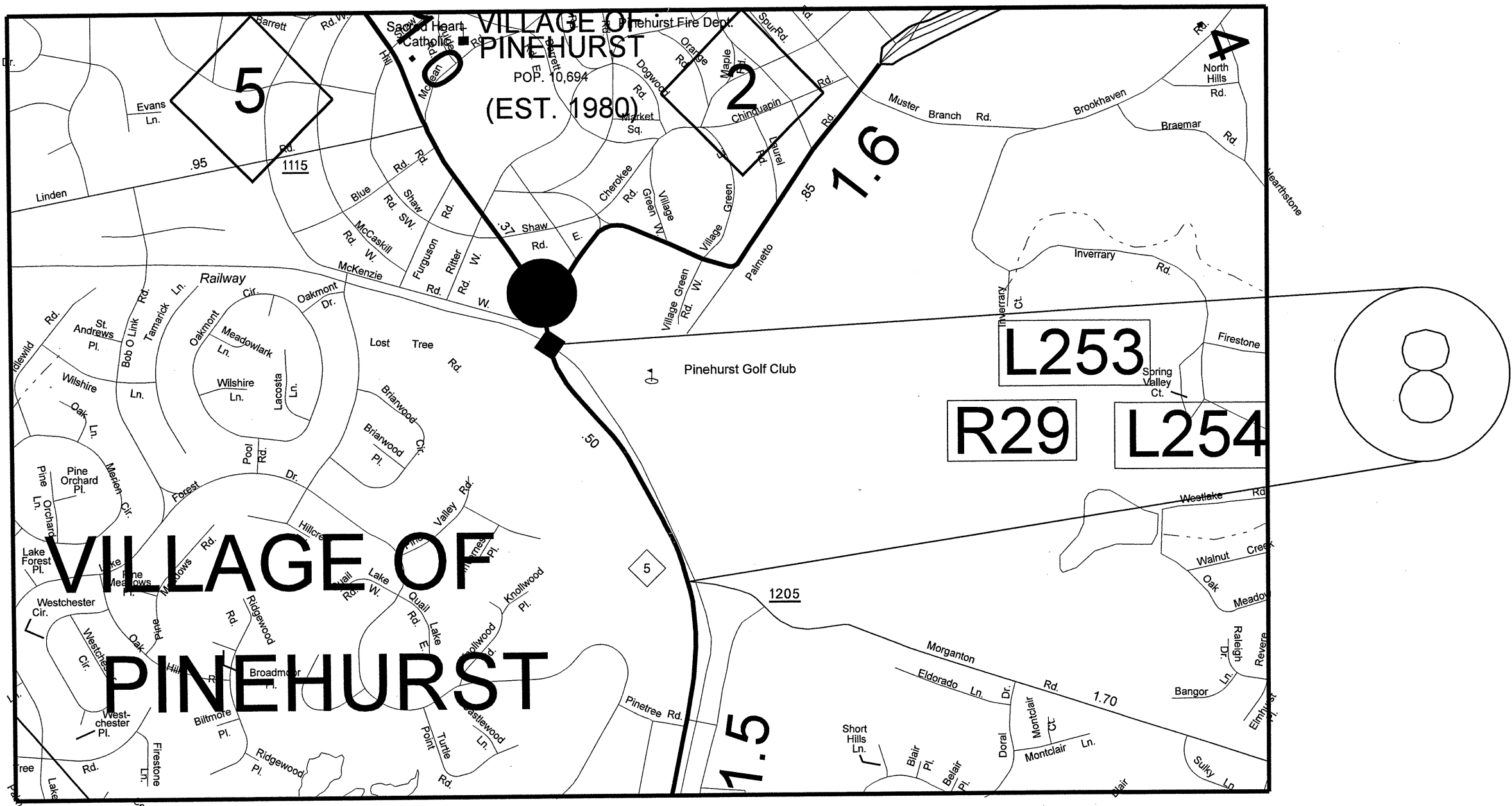
LEE COUNTY



VICINITY MAP

LEE COUNTY

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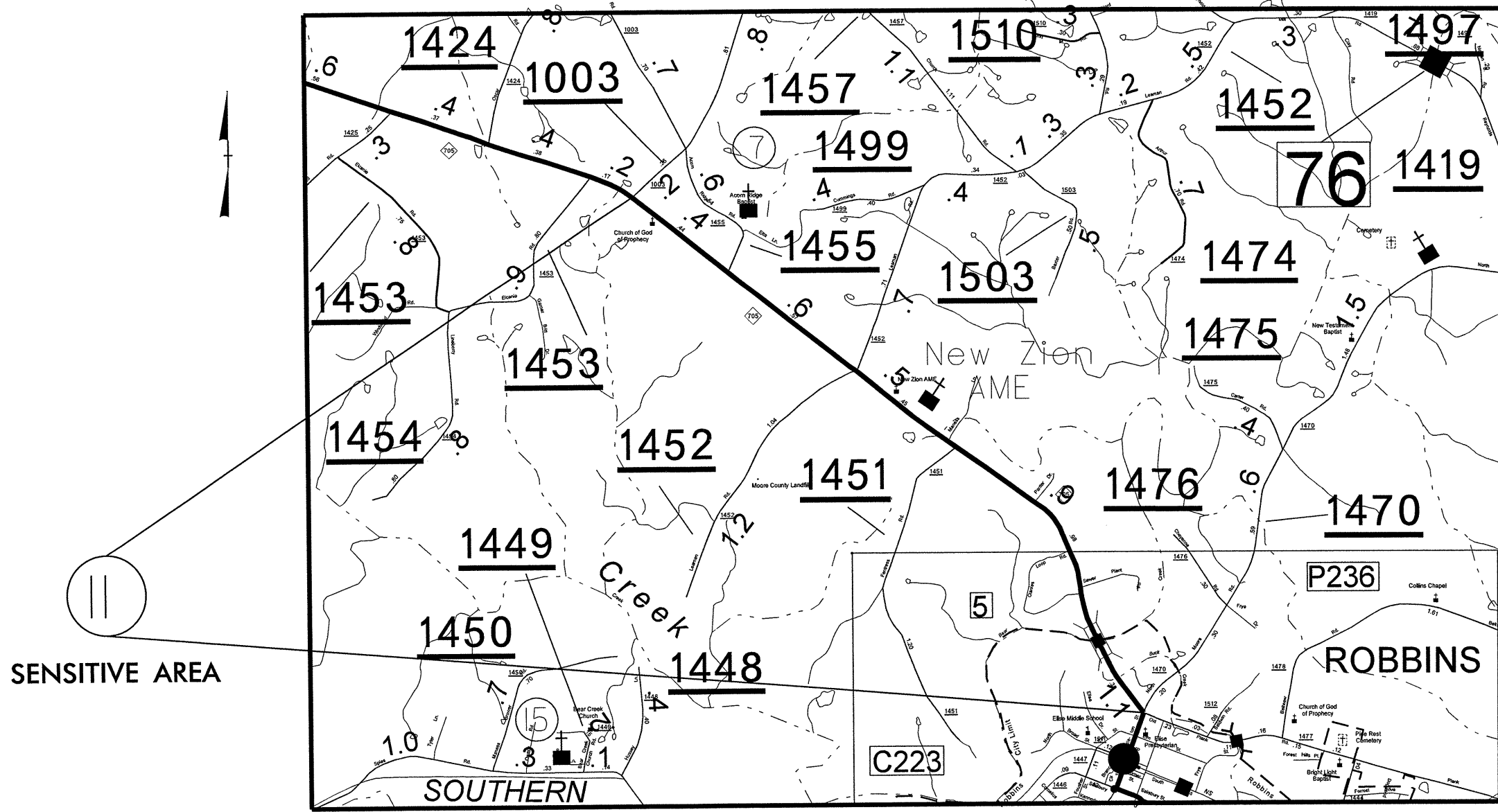
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MOORE COUNTY

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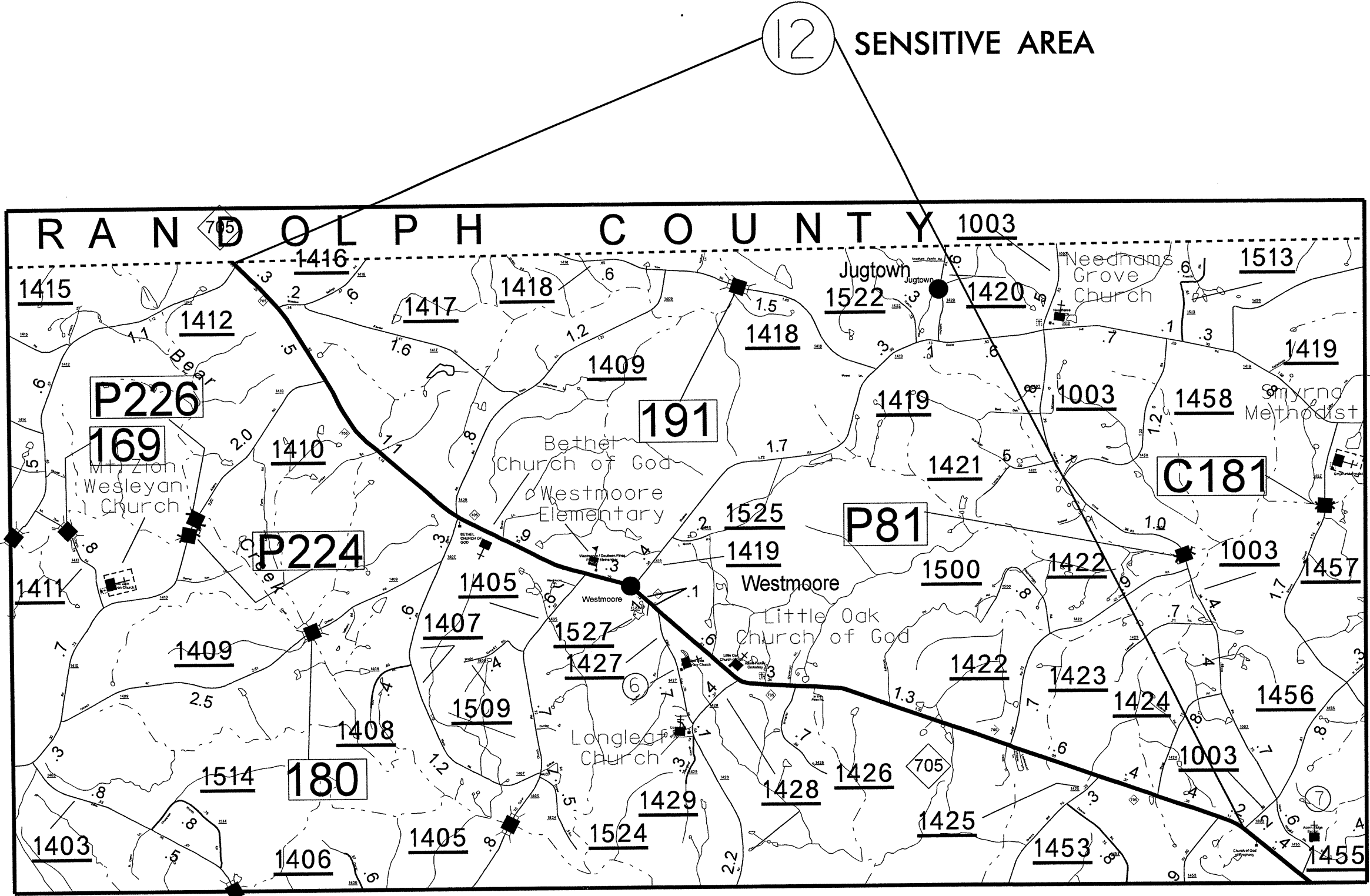
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VICINITY MAP

MOORE COUNTY



VICINITY MAP

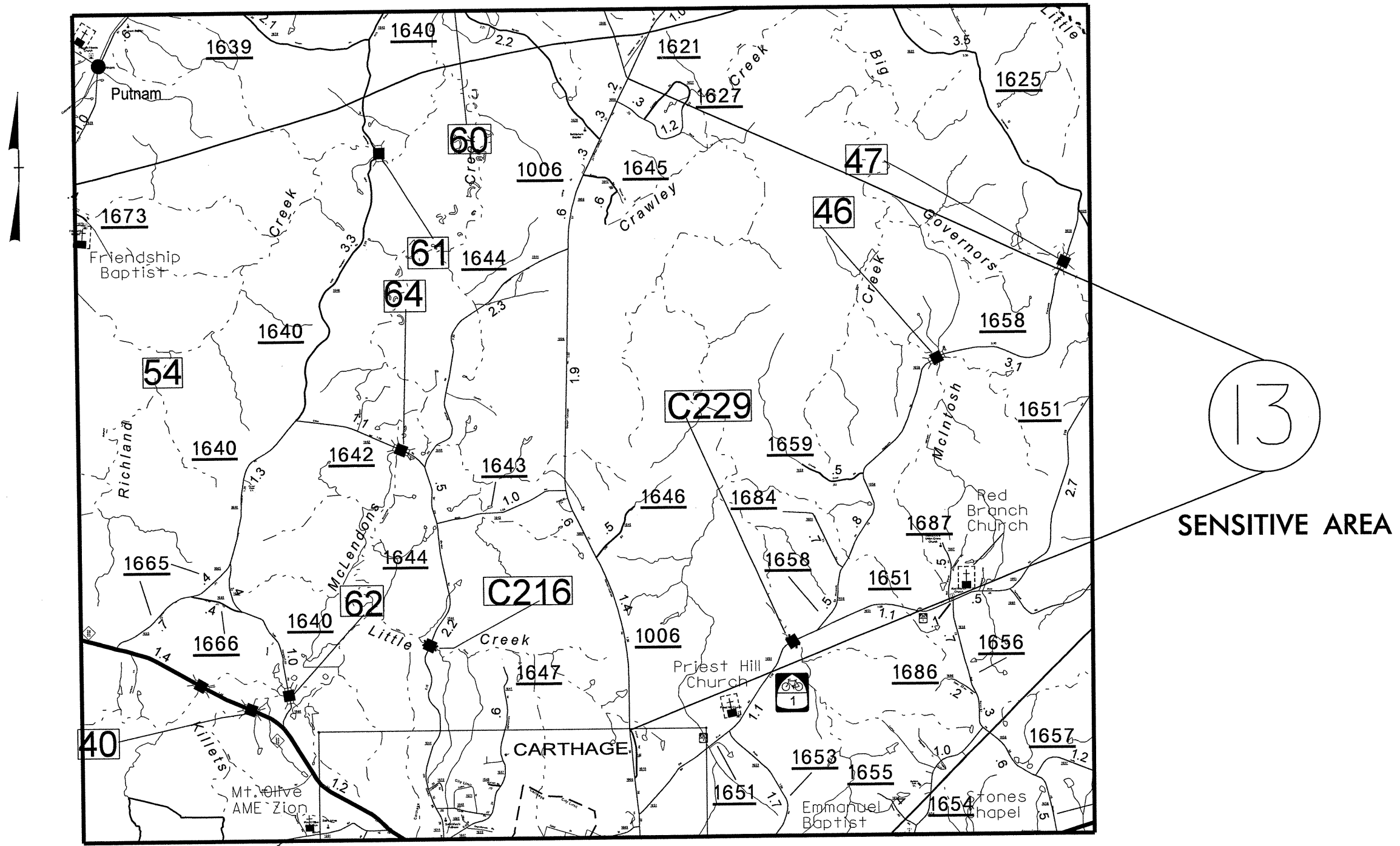
MOORE COUNTY

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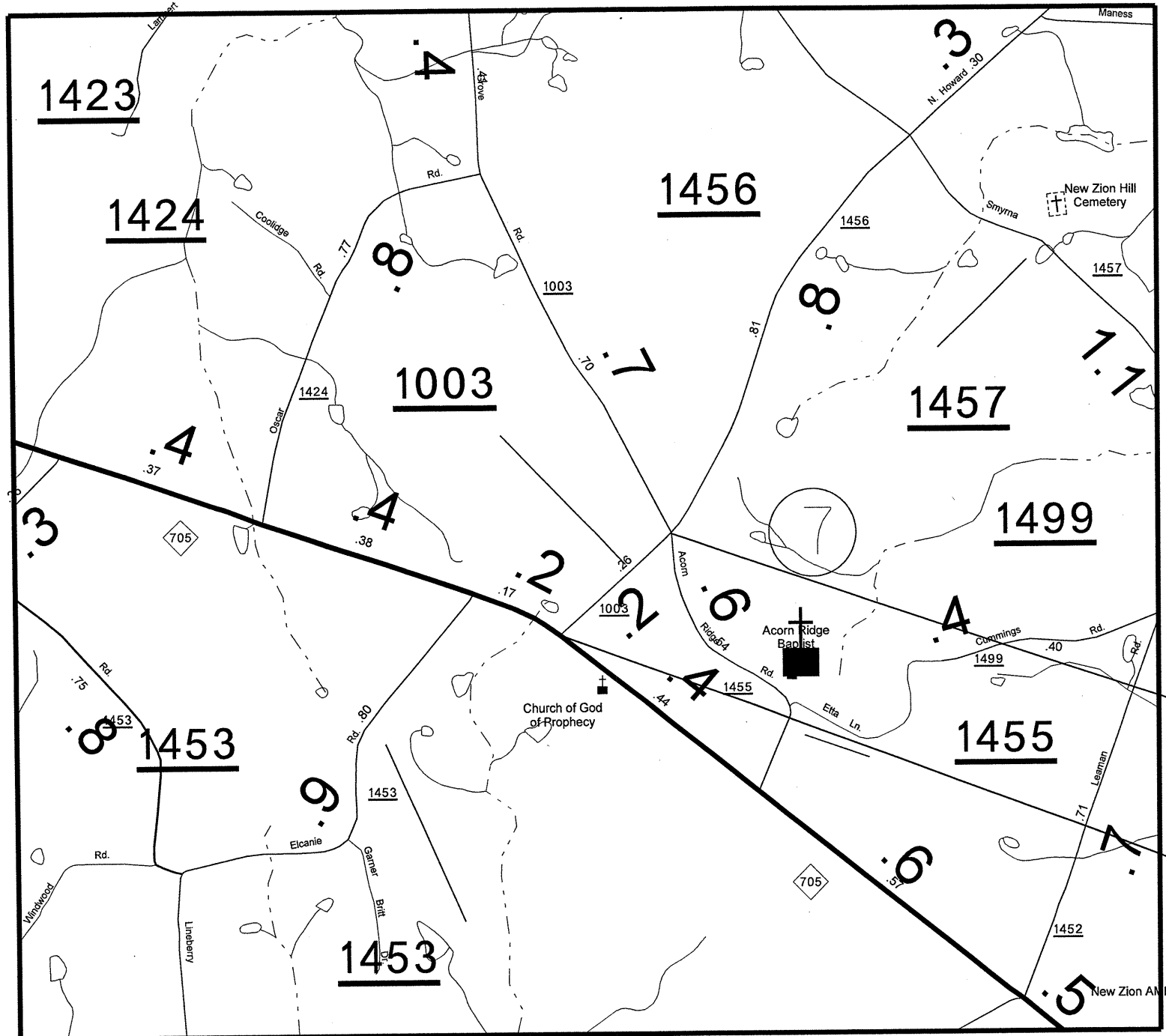
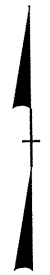
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VICINITY MAP

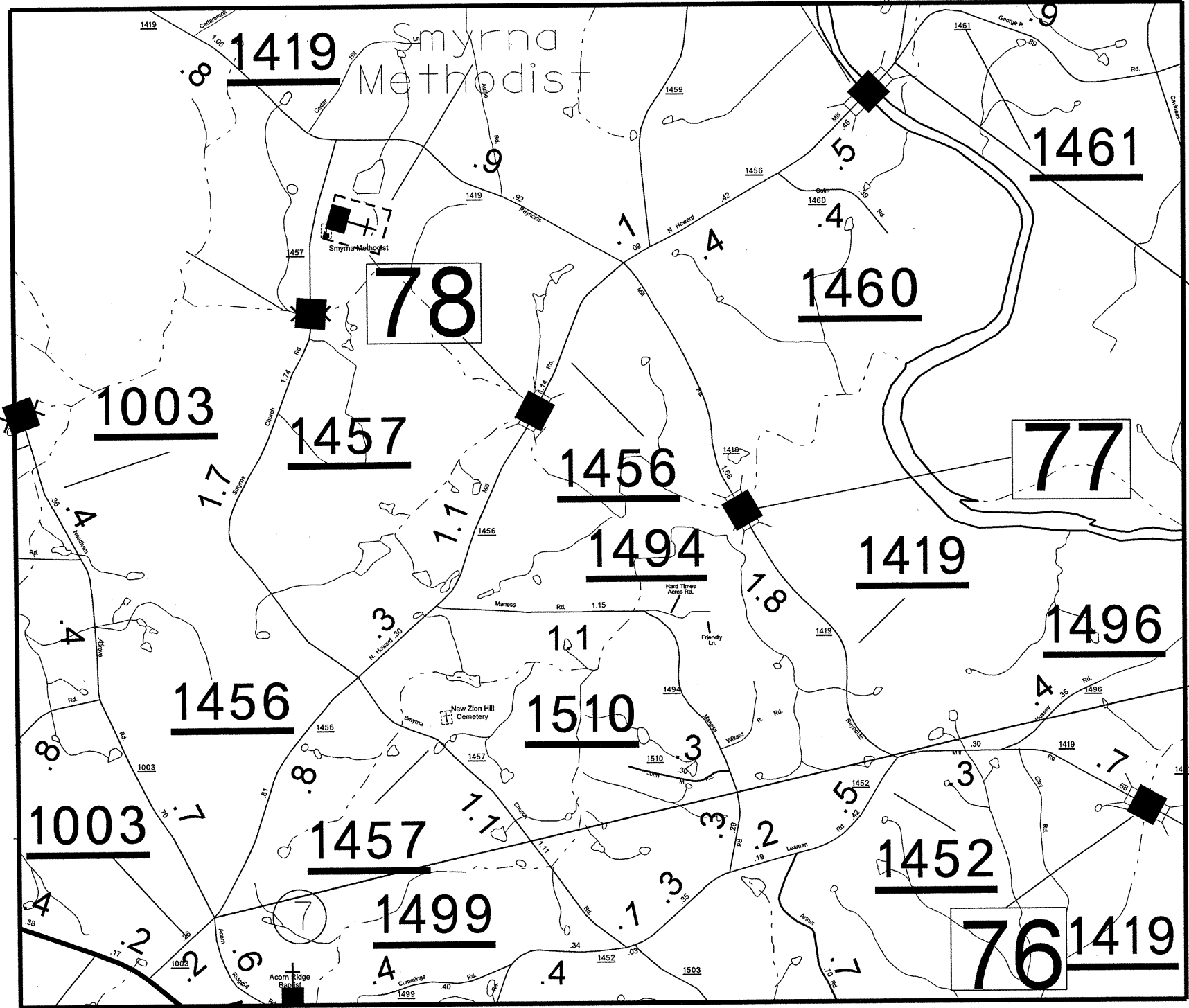
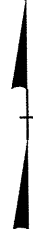
MOORE COUNTY

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VICINITY MAP

MOORE COUNTY



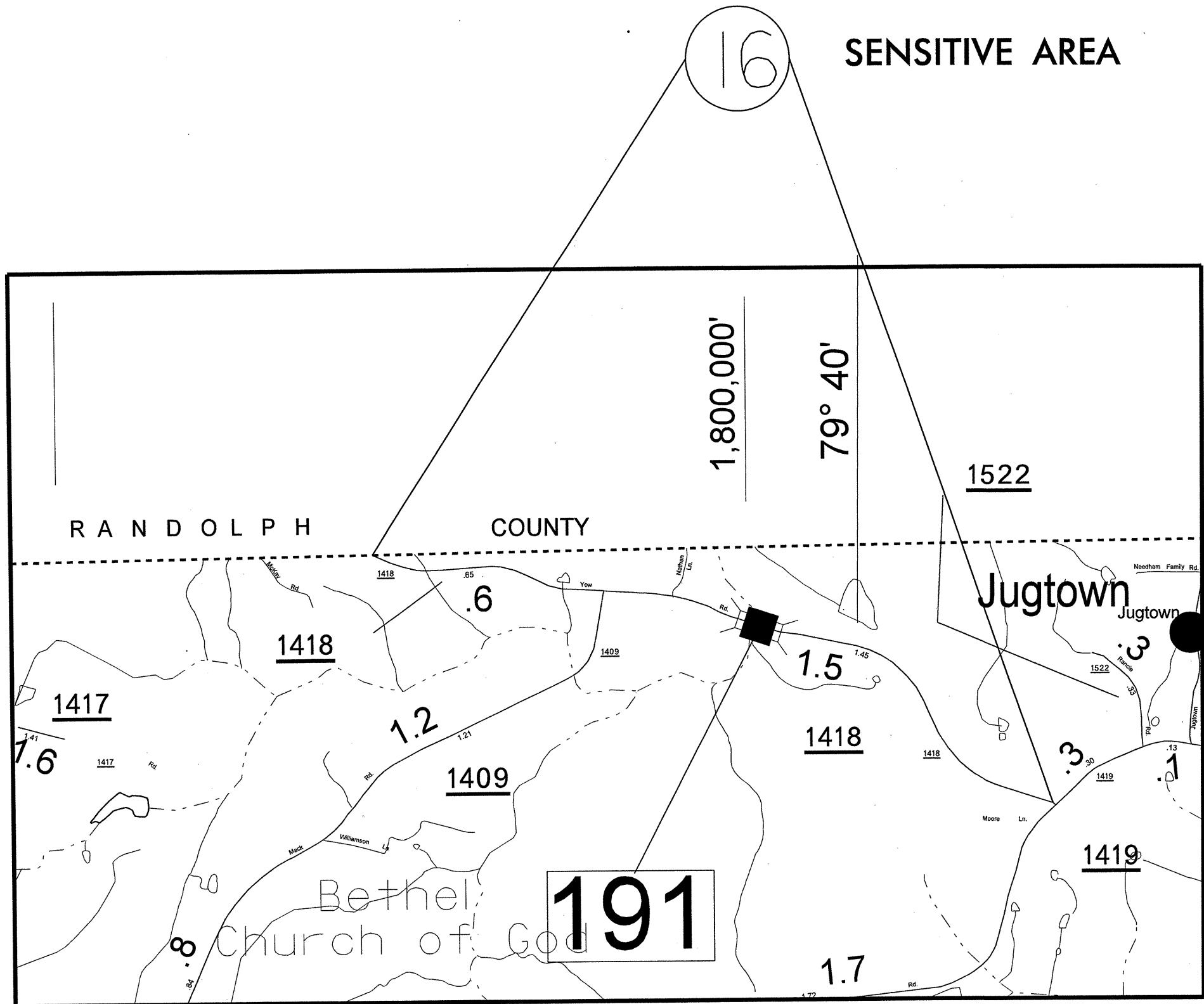
SENSITIVE AREA

VICINITY MAP

MOORE COUNTY

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VICINITY MAP

MOORE COUNTY

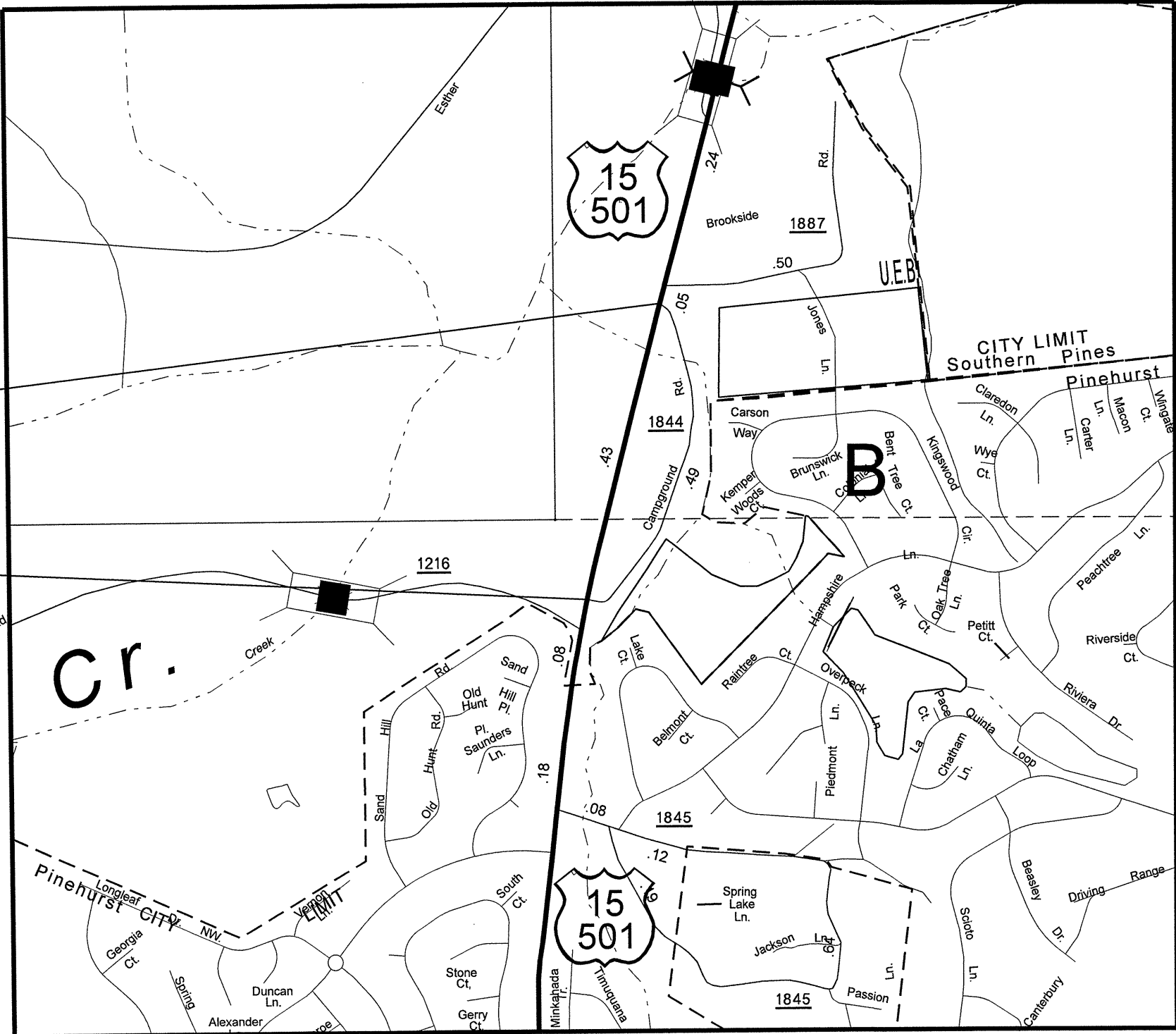
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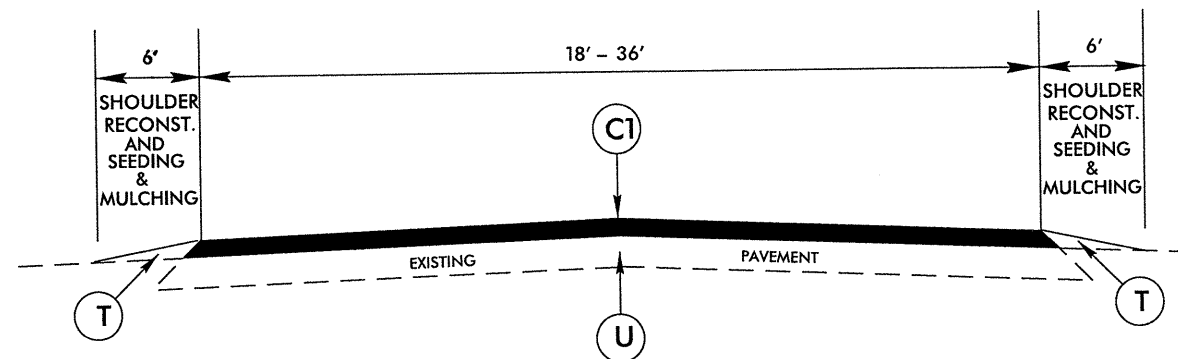
17

SENSITIVE AREA

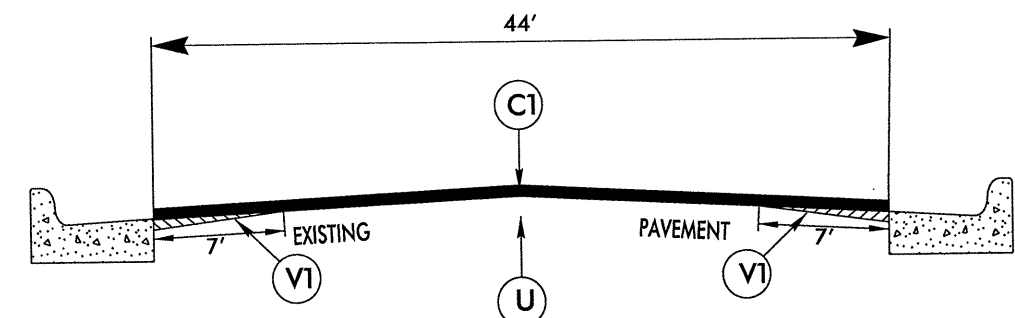


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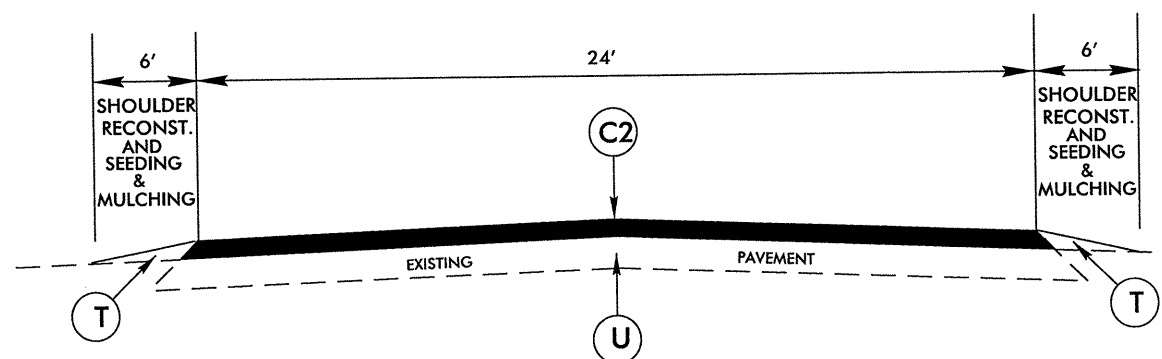
MOORE COUNTY



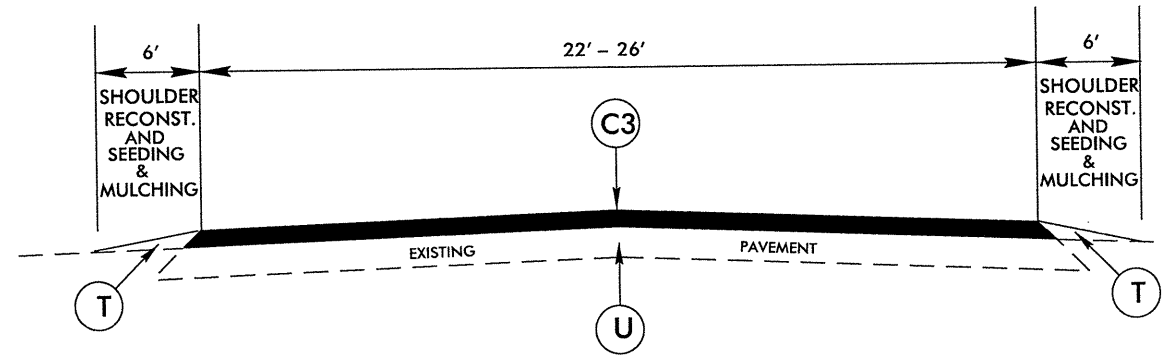
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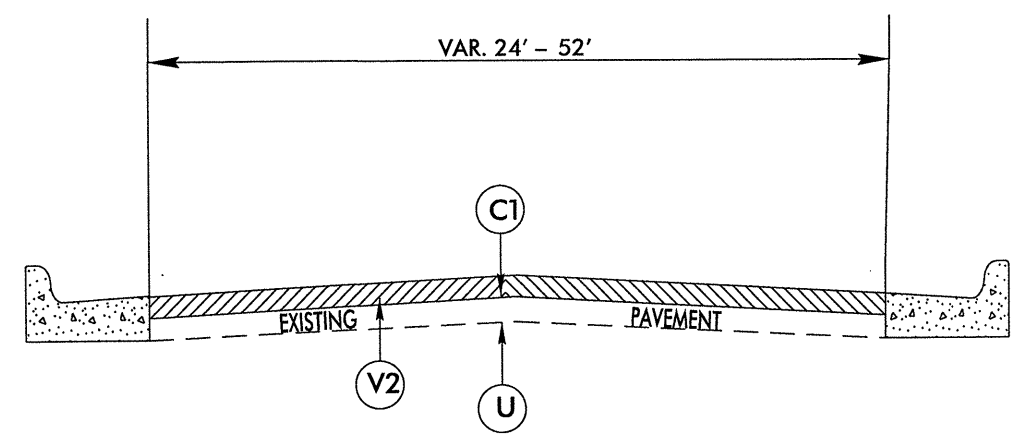
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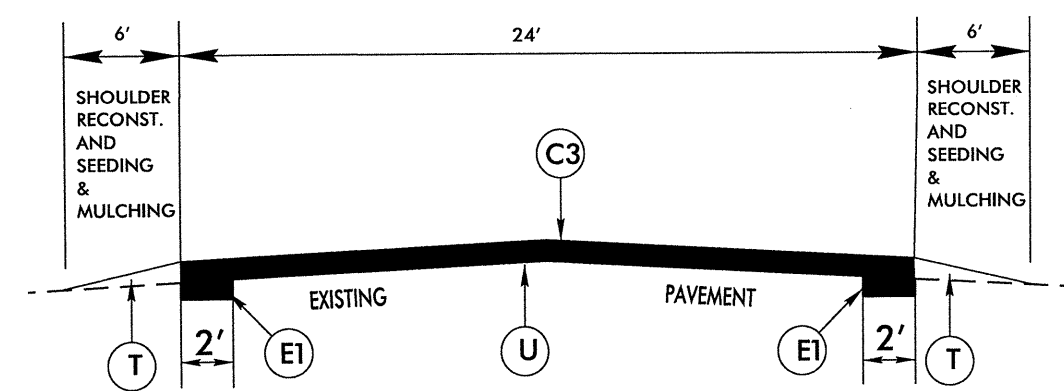
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TYPICAL SECTION NO.4



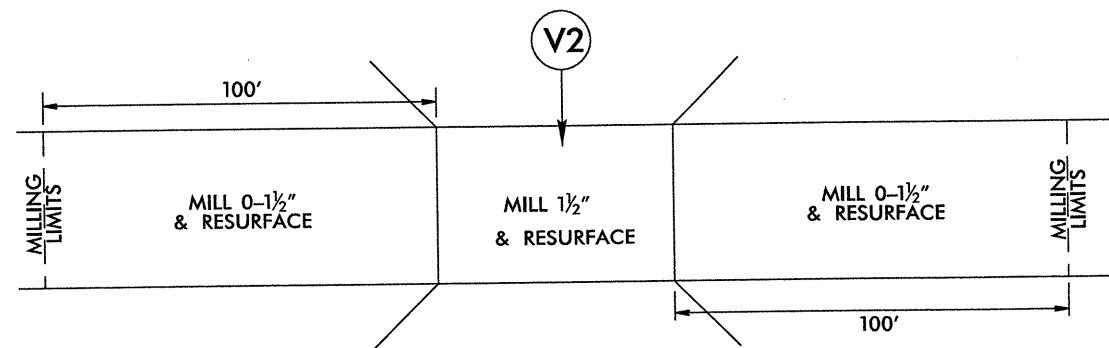
TYPICAL SECTION NO.5



TYPICAL SECTION NO.6

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
V1	MILL EXISTING PAVEMENT 0" - 1.5"
V2	MILL EXISTING PAVEMENT 1.5"
T	EARTH MATERIAL
U	EXISTING PAVEMENT

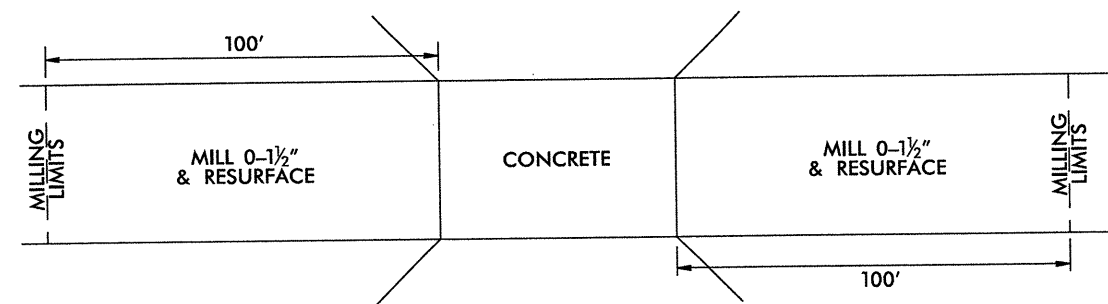
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BRIDGE APPROACH MILLING

** MILLING BRIDGE APPROACHES TO BE PAID FOR AS INCIDENTAL MILLING

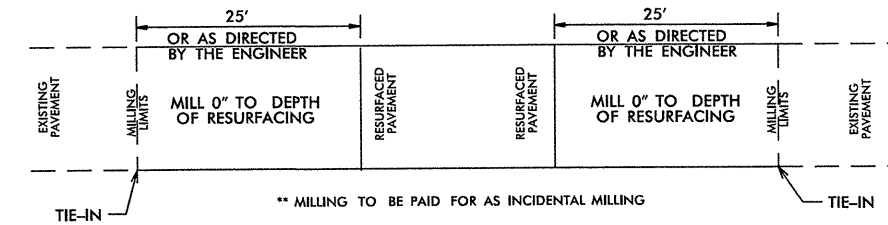
NOTE: Bridge Number 87 on SR 1133 Mill (Lee County)
 Bridge Number 191 on SR 1418 (Moore County) Mill and Pave



BRIDGE APPROACH MILLING

** MILLING TO BE PAID FOR AS INCIDENTAL MILLING

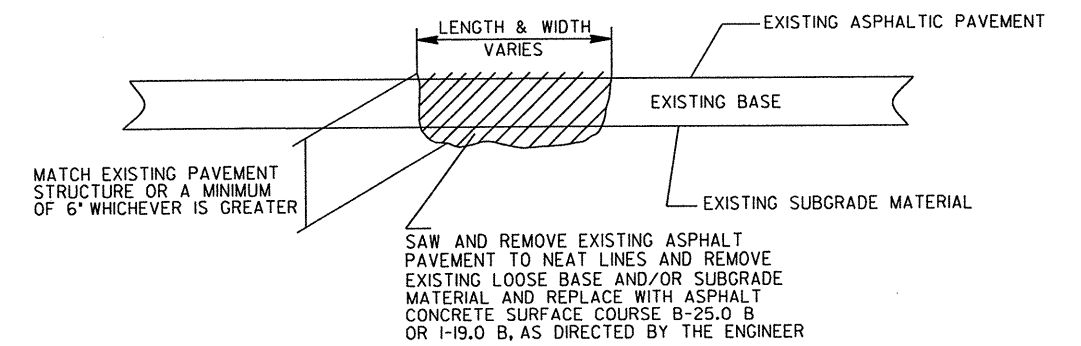
NOTE: Bridge Numbers 99 on SR 1560
 and 98 on SR 1500 (Lee County) Do Not Pave.
 Bridge Numbers 78 and 82 on SR 1456
 and No. 5 on NC 705 (Moore County) Do Not Pave.



PAVEMENT TIE-IN DETAIL

DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING

DETAIL NO. 1



PAVEMENT SCHEDULE

V2	MILL EXISTING PAVEMENT 1.5"
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5/28/99

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PROJECT NO.	SHEET NO.	TOTAL NO.
8CR.20531.18, 8CR.10631.18	22	
8CR.20631.18,		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1.5" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJUST MANHOLES EA	ADJUST METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	WATTLE LF	SEED & MULCHING AC	INDUCTIVE LOOP SAWCUT LF		
8CR.20531.18	Lee	1	SR 1423	FROM PAVEMENT JT. @ US 1 TO SR 1422	1	NO	2.424	22	100	155	4.85			125			2,870	192	550		1	355	890	3.53			
		2	SR 1133	FROM SR 1146 TO SR 1136 @ C&G	1	NO	1.951	22	80	185	3.90	250			615			2,240	150	310		2	285	710	2.90		
		3	SR 1237	FROM SR 1107 TO NC 42	1	NO	0.436	36	18			0.90			200			850	57	10	2	4	65	160	0.65	800	
		4	SR 1560	FROM US 421 TO US 1 BUS.	2	NO	0.322	44						2,700	100			965	65	80							
		5	SR 1560	FROM US 1 BUS. TO SR 1415	1	NO	0.701	24	30			1.40				780			1,255	84	95	2	3	105	260	1.10	800
		6	SR 1002	FROM SR 1509 TO PAVEMENT JT. @ US 421	1	NO	1.288	18	55	150	2.58					100			1,250	84	125			190	470	1.90	500
		7	SR 1500	FROM SR 1002 TO BRIDGE	1	NO	1.089	20	45	55	2.20					450			1,170	78	170			160	400	1.60	
TOTAL FOR PROJ NO. 8CR.20531.18							8.211		328	545	15.83	250	2,700	2,370			10,600	710	1,340	4	10	1,160	2,890	11.68	2,100		
8CR.10631.18	Moore	8	NC 5	FROM CONST. JT @ SR 1205 TO CONST. JT. @ RAILROAD TRACKS	3	NO	0.417	24	17		0.83			110			765		46	30			65	160	0.61	500	
		9	NC 211	FROM SR 1238 TO NC 73N	4	NO	1.165	26	50		2.33				150			1,905		114	95			170	430	1.70	
		10	NC 705	FROM CONST. JT. SOUTH OF ROBBINS TO SR 1477	5	NO	0.838	44					22,000		200			2,120		127	150	17	19			2,100	
		11	NC 705	FROM SR 1470 TO SR 1003	4	NO	2.675	22	108	305	5.35				625			3,355		201	480	2	2	395	990	3.95	400
		12	NC 705	FROM SR 1003 TO RANDOLPH CO. LINE	6	NO	7.142	24	290	840	14.30				240	8,840	10,055		992	1,300			1,040	2,600	10.40		
TOTAL FOR PROJ NO. 8CR.10631.18							12.237		465	1,145	22.81	22,000		1,325	8,840	18,200		1,480	2,055	19	21	1,670	4,180	16.66	3,000		
8CR.20631.18	Moore	13	SR 1006	FROM SR 1676 TO SR 1621	1	NO	5.218	22	210	140	10.44			270			6,750		452	80			760	1,900	7.60		
		14	SR 1003	FROM NC 705 TO SR 1456	1	NO	0.265	18	12	25	0.61				100			330	22	70			44	110	0.44		
		15	SR 1456	FROM SR 1003 TO SR 1461	1	NO	3.22	18	35	180	6.45				900			3,450	231	445			470	1,170	4.70		
		16	SR 1418	FROM SR 1419 TO RANDOLPH COUNTY LINE	1	NO	2.083	20	85	130	4.17	225			560			2,285	153	150			303	760	3.03		
		17	SR 1844	FROM US 15/501 TO US 15/501	1	NO	0.479	18	20	20	0.96				100			465	31	120		2		70	180	0.70	
TOTAL FOR PROJ NO. 8CR.20631.18							11.265		362	495	22.63	225		1,930			13,280	889	865		2	1,647	4,120	16.47			
GRAND TOTAL							31.713		1,155	2,185	61.27	22,475	2,700	5,625	8,840	18,200	23,880	3,079	4,260	23	33	4,477	11,190	44.81	5,100		

PROJECT NO.	SHEET NO.	TOTAL NO.
8CR.20531.18, 8CR.10631.18 8CR.20631.18,	23	

THERMOPLASTIC AND PAINT QUANTITIES

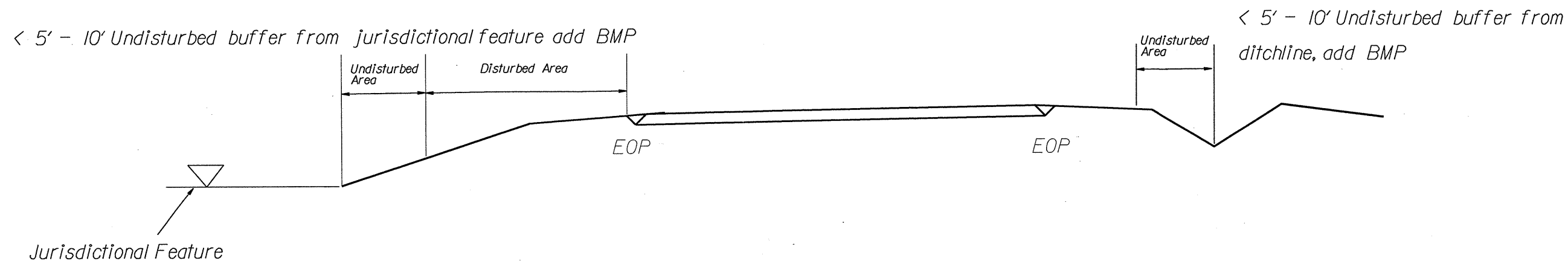
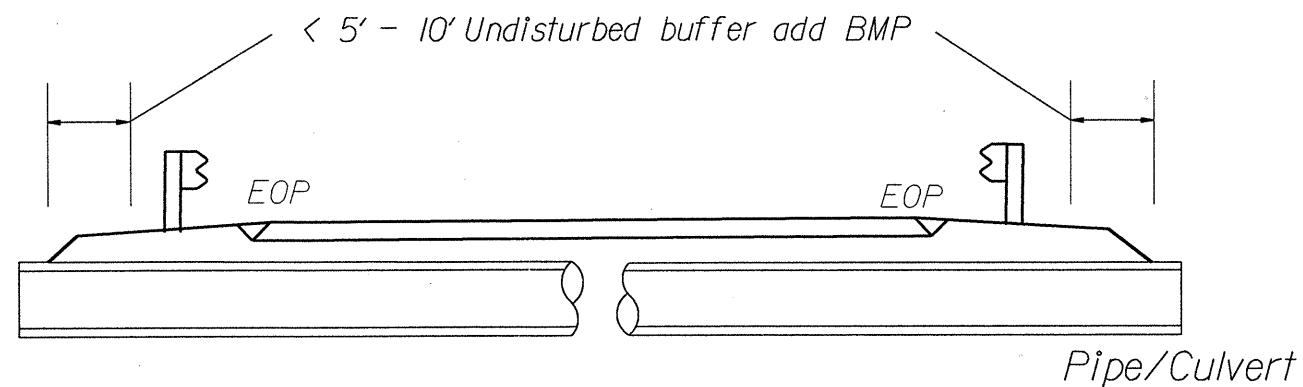
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4399000000-N		4685000000-E		4686000000-E		4695000000-E		4697000000-E		4705000000-E		4710000000-E		4721000000-E		4770000000-E		4850000000-E					
							TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	4" X 120 M YELLOW THERMO	4" X 120 M WHITE THERMO	8" X 90 M YELLOW THERMO	8" X 120 M WHITE THERMO	16" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO RXR 120 M	THERMO MSG SCHOOL 120 M	COLD APPLIED PAVEMENT MARK. LINES, TYPE II (4")	PAVEMENT MARKING REMOVAL (4")											
NO	NO						LS	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	LF	LF											
8CR.20531.18	Lee	1	SR 1423	FROM PAVEMENT JT. @ US 1 TO SR 1422	2.424	22																								
			2	SR 1133	FROM SR 1146 TO SR 1136 @ C & G	1.951	22																							
			3	SR 1237	FROM SR 1107 TO N C 42	0.436	36		4,600		7,200																			
			4	SR 1560	FROM US 421 TO US 1 BUS.	0.322	44				3,800	500				100	155	4										800	800	
			5	SR 1560	FROM US 1 BUS. TO SR 1415	0.701	24		8,200		8,800		400				50													
			6	SR 1002	FROM SR 1509 TO PAVEMENT JT. @ US 421	1.288	18																					400	400	
			7	SR 1500	FROM SR 1002 TO BRIDGE	1.089	20																				400	400		
TOTAL FOR PROJ NO. 8CR.20531.18					8.211		*	12,800		19,800	500	400		100	205	4	4			1,200	1,200									
8CR.10631.18	Moore	8	NC 5	FROM CONST. JT @ SR 1205 TO CON ST. JT. @ RAILROAD TRACKS	0.417	24		4,400		5,200		200	140		24										500	500				
			9	NC 211	FROM SR 1238 TO N C 73N	1.165	26		12,300		12,300		300																	
			10	NC 705	FROM CONST. JT. SOUTH OF ROBBINS TO SR 1477	0.838	44		400		8,400	600				50	230	4								500	500			
			11	NC 705	FROM SR 1470 TO SR 1003	2.675	22		28,600		23,050																			
			12	NC 705	FROM SR 1003 TO RAN DOLPH CO. LINE	7.142	24		39,000		61,000		450					100			12						1,000	1,000		
TOTAL FOR PROJ NO. 8CR.10631.18					12.237		*	84,700		109,950	600	950	790	280	199	6	12		18											
8CR.20631.18	Moore	13	SR 1006	FROM SR 1676 TO SR 1621	5.218	22		110,200	26,650																					
			14	SR 1003	FROM NC 705 TO SR 1456	0.265	18																							
			15	SR 1456	FROM SR 1003 TO SR 1461	3.22	18																							
			16	SR 1418	FROM SR 1419 TO RAN DOLPH COUNTY LINE	2.083	20																							
			17	SR 1844	FROM US 15/501 TO US 15/501	0.479	18																							
TOTAL FOR PROJ NO. 8CR.20631.18					11.265		*	110,200	26,650																					
GRAND TOTAL					31.713		1	207,700	26,650	129,750	1,100	1,350	790	380	404				22		2,200	2,200								

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4725000000-E					4810000000-E		4830000000-E		4835000000-E		4840000000-N					4900000000-N						
							THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO STR & LT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG RXR	PAINT LT ARROW	PAINT RT ARROW	PAINT STR & RT ARROW	PAINT STR & LT ARROW	YELLOW & YELLOW MARKERS	CRYSTAL & RED MARKERS							
NO	NO						EA	EA	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		
8CR.20531.18	Lee	1	SR 1423	FROM PAVEMENT JT. @ US 1 TO SR 1422	2.424	22						51,400	47,000																
			2	SR 1133	FROM SR 1146 TO SR 1136 @ C & G	1.951	22	1					40,600	29,400															
			3	SR 1237	FROM SR 1107 TO N C 42	0.436	36	16	4																				
			4	SR 1560	FROM US 421 TO US 1 BUS.	0.322	44	2	2																				
			5	SR 1560	FROM US 1 BUS. TO SR 1415	0.701	24	6	1	7	2																		
			6	SR 1002	FROM SR 1509 TO PAVEMENT JT. @ US 421	1.288	18						27,200	27,200															
			7	SR 1500	FROM SR 1002 TO BRIDGE	1.089	20						23,000	11,400															
TOTAL FOR PROJ NO. 8CR.20531.18					8.211		25	7	7	2		142,200	115,000													220			
8CR.10631.18	Moore	8	NC 5	FROM CONST. JT @ SR 1205 TO CON ST. JT. @ RAILROAD TRACKS	0.417	24		1																			48		
			9	NC 211	FROM SR 1238 TO N C 73N	1.165	26	3		2																		130	
			10	NC 705	FROM CONST. JT. SOUTH OF ROBBINS TO SR 1477	0.838	44	1	1	1		1		8,850	100	280	4	1	1	1	1							55	
			11	NC 705	FROM SR 1470 TO SR 1003	2.675	22			2																		178	
			12	NC 705	FROM SR 1003 TO RAN DOLPH CO. LINE	7.142	24	13			6	1																492	
TOTAL FOR PROJ NO. 8CR.10631.18					12.237		17	2	5	6	2		8,850	100	280	4	1	1	1	1	1				903	85			
8CR.20631.18	Moore	13	SR 1006	FROM SR 1676 TO SR 1621	5.218	22																							
			14	SR 1003	FROM NC 705 TO SR 1456	0.265	18						6,400	6,400															
			15	SR 1456	FROM SR 1003 TO SR 1461	3.22	18						66,000	7,100															
			16	SR 1418	FROM SR 1419 TO RAN DOLPH COUNTY LINE	2.083	20						44,000	44,000															
			17	SR 1844	FROM US 15/501 TO US 15/501	0.479	18																						
TOTAL FOR PROJ NO. 8CR.20631.18					11.265							116,400	57,500																
GRAND TOTAL					31.713		42	9	12	8	2	258,600	181,350	100	280	4	1	1	1	1				1,123	85				

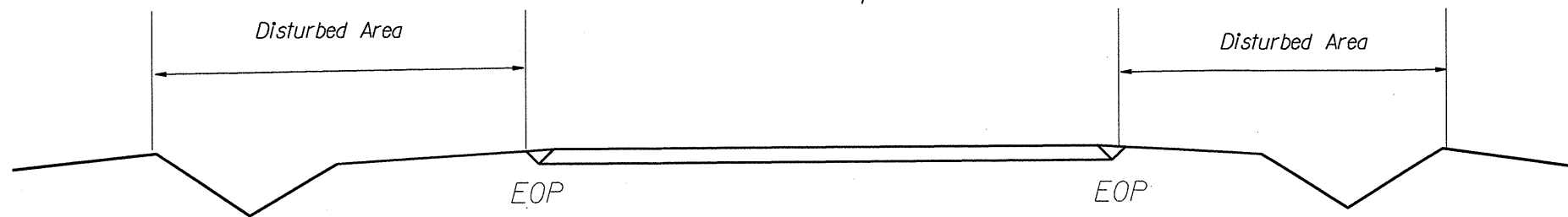
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

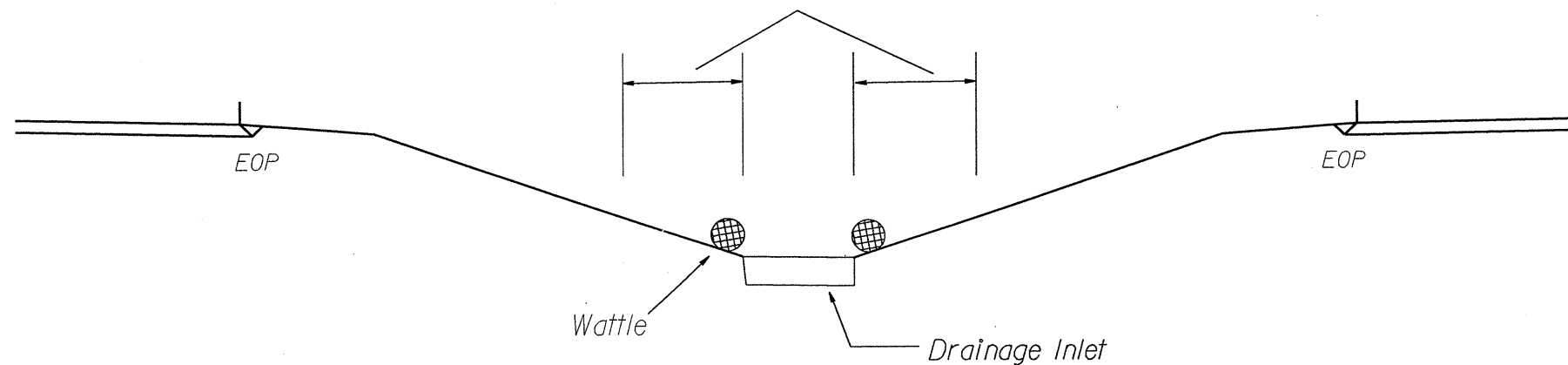
EROSION CONTROL DETAIL



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

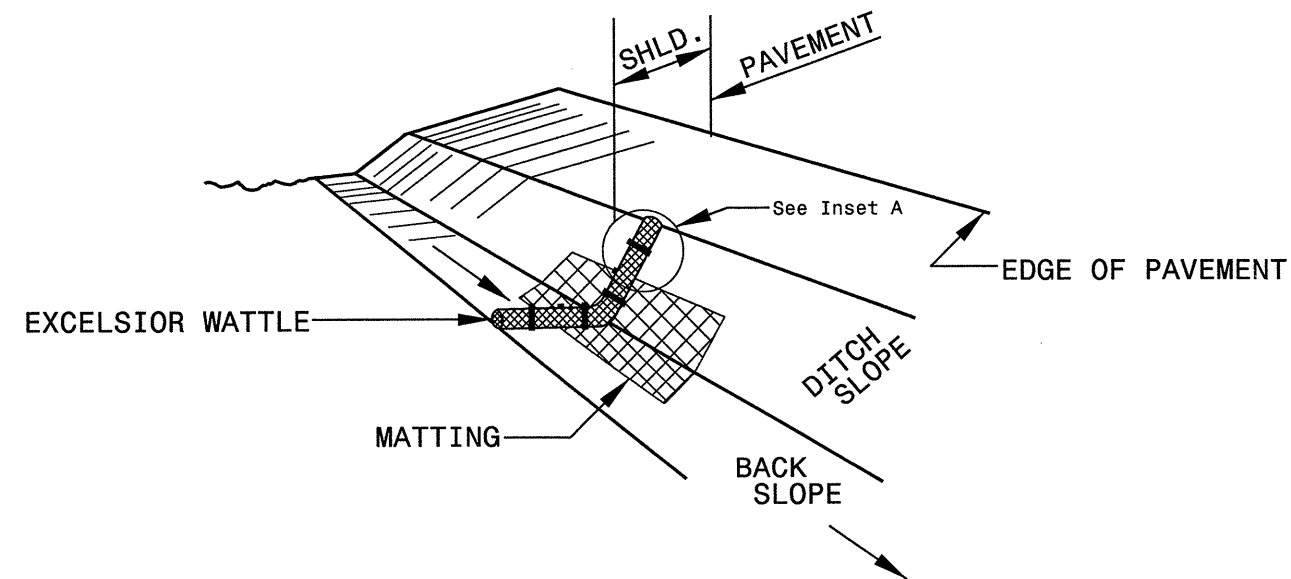


< 5' - 10' Undisturbed buffer from inlet, add wattle

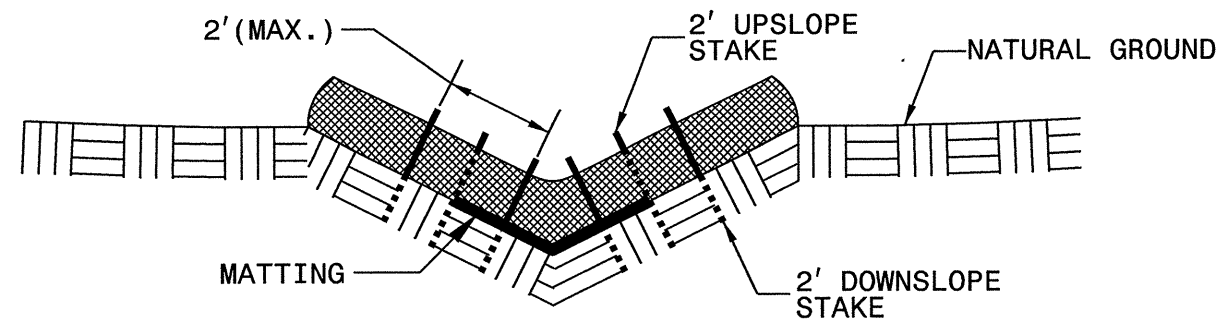


NOT TO SCALE

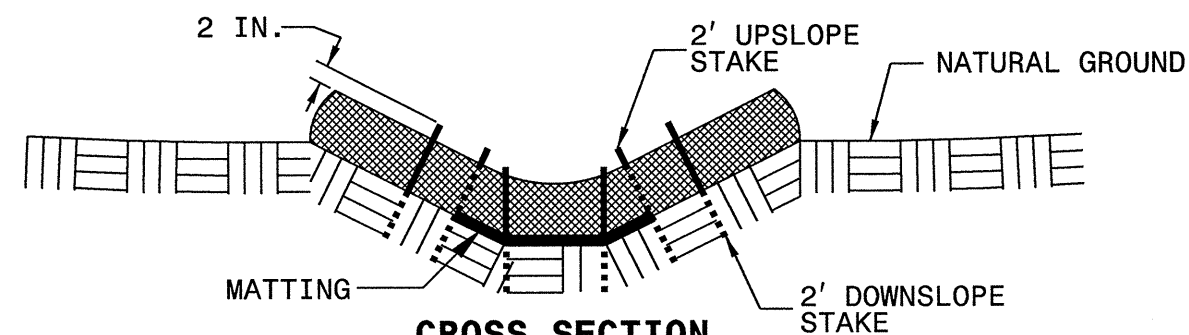
WATTLE DETAIL



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.

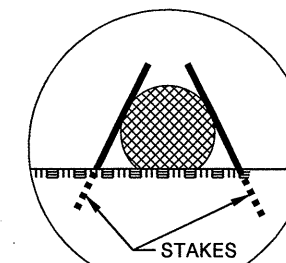
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

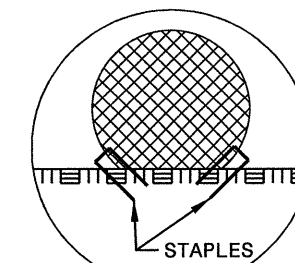
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

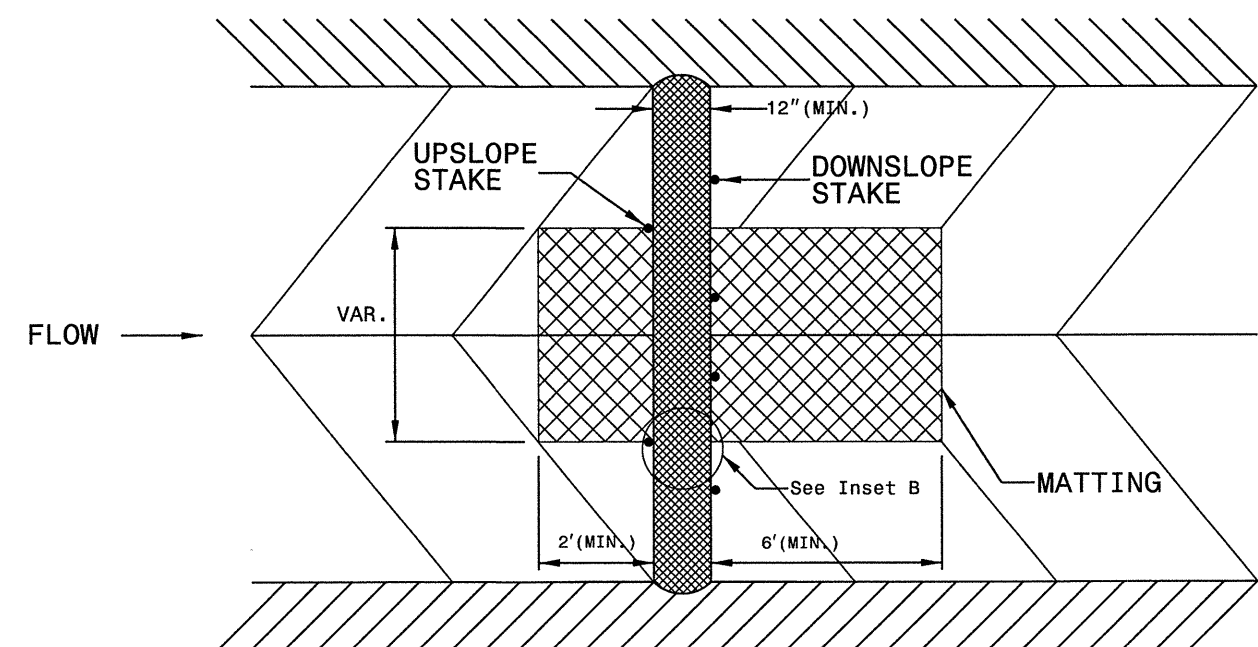
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A

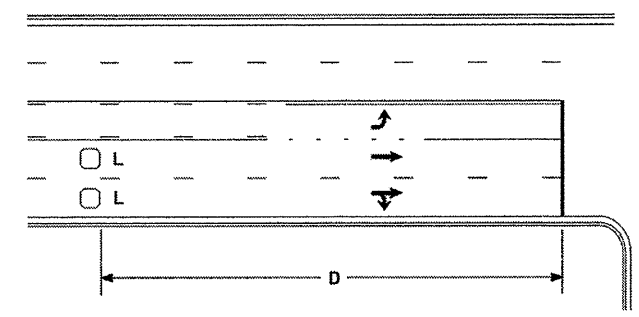


INSET B



TOP VIEW

High Speed Detection [≥40 mph (64 km/hr)]

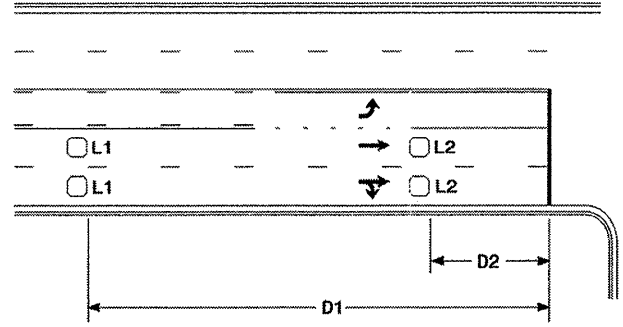


Speed Limit mph (km/hr)	D ft (m)
40 (64)	250 (75)
45 (72)	300 (90)
50 (80)	355 (110)
55 (88)	420 (130)

L = 6ft X 6ft (1.8m X 1.8m)
Wired in series for TS1
Controllers
Wired separately for TS2,
170, and 2070L Controllers

Volume Density Operation

OR

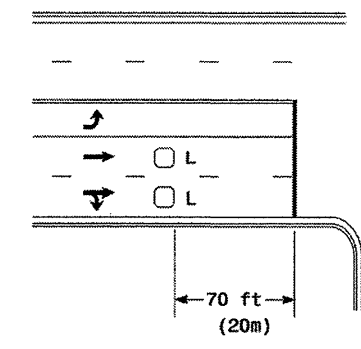


Speed Limit mph (km/hr)	D1 ft (m)	D2 ft (m)
40 (64)	250 (75)	80 (25)
45 (72)	300 (90)	90 (27)
50 (80)	355 (110)	100 (30)
55 (88)	420 (130)	110 (35)

L1 = 6ft X 6ft
(1.8m X 1.8m)
Wired in series
L2 = 6ft X 6ft
(1.8m X 1.8m)
Wired in series

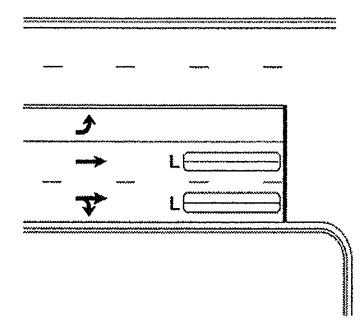
"Stretch" Operation

Low Speed Detection [≤35 mph (56 km/hr)]



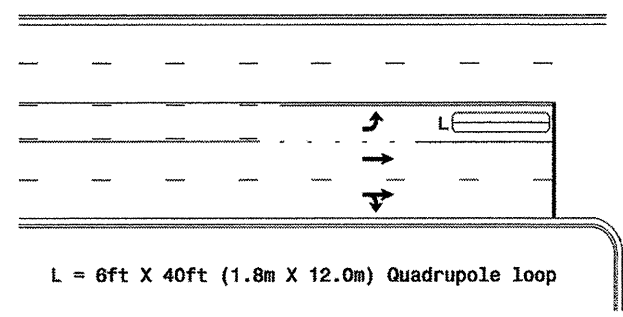
L = 6ft X 6ft (1.8m X 1.8m)
Wired in series

OR



L = 6ft X 40ft (1.8m X 12.0m)
Quadrupole loop, wired separately

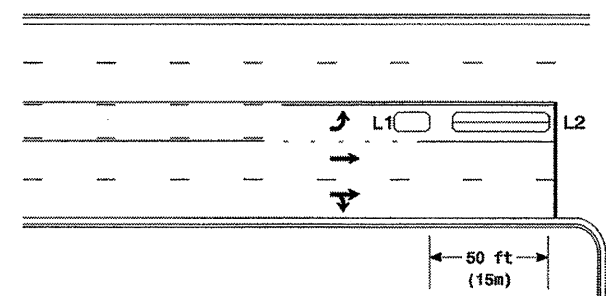
Left Turn Lane Detection



L = 6ft X 40ft (1.8m X 12.0m) Quadrupole Loop

Presence Loop Detection

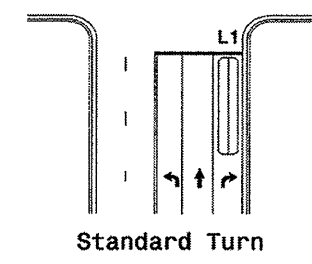
OR



L1 = 6ft X 15ft (1.8m X 4.6m) Queue detector
L2 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

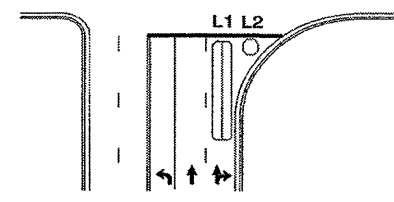
Queue Loop Detection

Right Turn Lane Detection

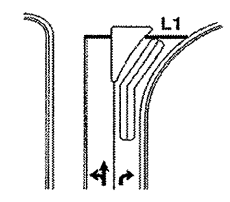


Standard Turn

L1 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop
L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop
Wired separately
L3 = 6ft X 20ft (1.8m X 6.0m) Quadrupole loop
Wired in series

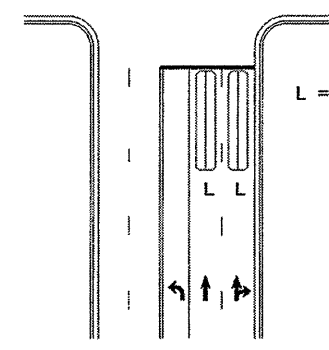


Wide Radius Turn



Channelized Turn

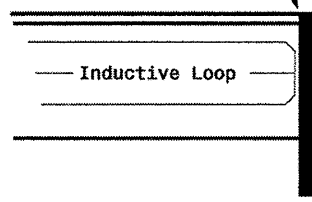
Side Street Detection



L = 6ft X 40ft (1.8m X 12.0m)
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines

Locate loop slightly
behind leading
edge of stop line



Note:
Loop may be located in advance
of stop line when stop line is
greater than 15' (4.5m) from edge
of intersecting roadway; or, when
loop detects a permissive or
protected/permissive left turn.

Recommended Number of Turns

Single 6' X 6' (1.8m X 1.8m)
loop (wired separately):

Length of Lead-in ft (m)	Number of Turns
< 250 (75)	3
250-375 (75-115)	4
375-525 (115-160)	5
> 525 (160)	6

Quadrupole loops: Use 2-4-2 turns
6' X 15' (1.8m X 4.6m) Loops:
Lead-in < 150' (45 m), use 2 turns
Lead-in > 150' (45 m), use 3 turns

	Typical Loop Locations	
	PLAN DATE: June 2006 PREPARED BY: P. L. Alexander	REVIEWED BY:
SCALE: N/A	REVISIONS:	INIT. DATE
SIGNATURE:		DATE:
SIG. INVENTORY NO.		