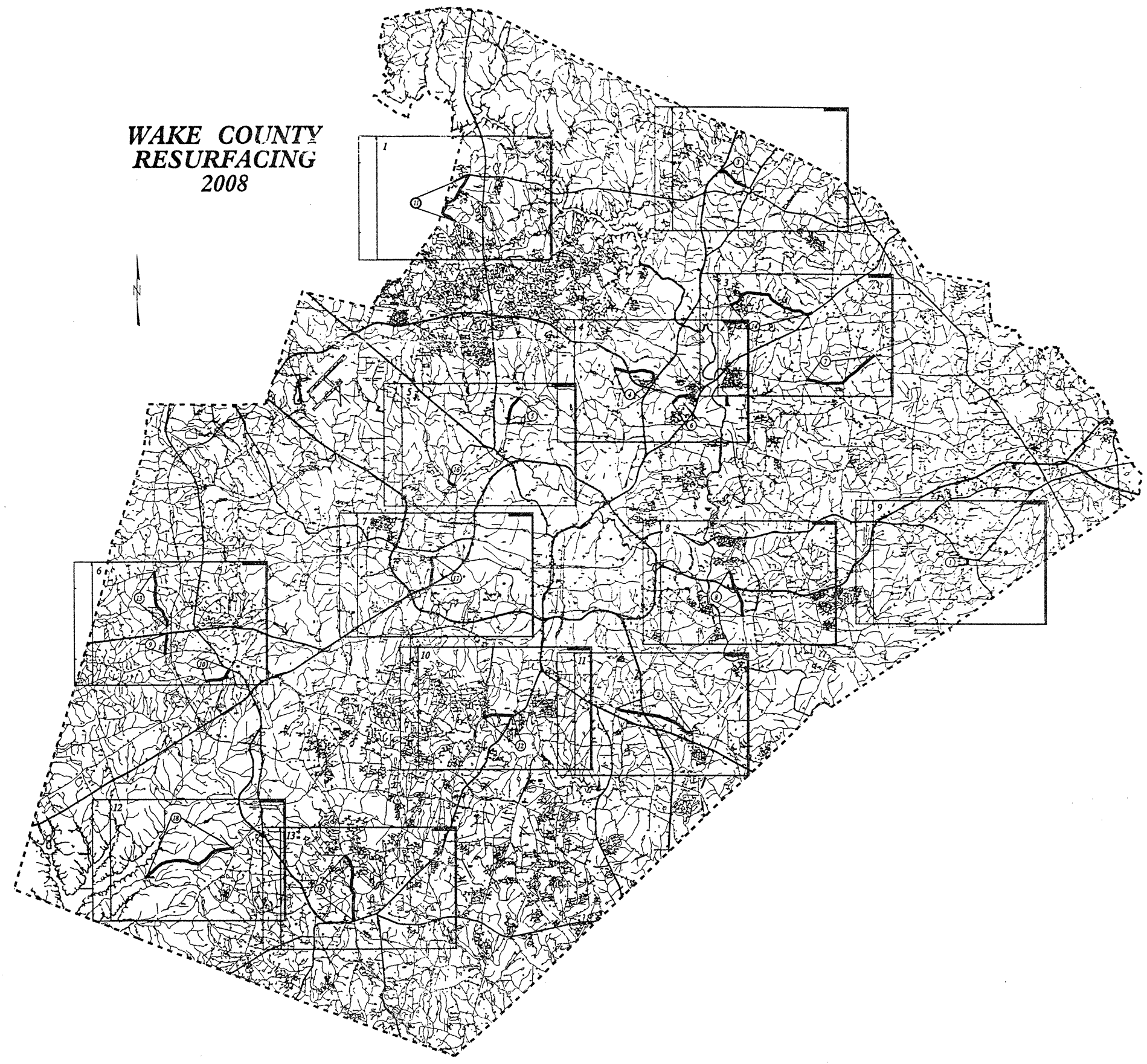


**WAKE COUNTY  
RESURFACING  
2008**





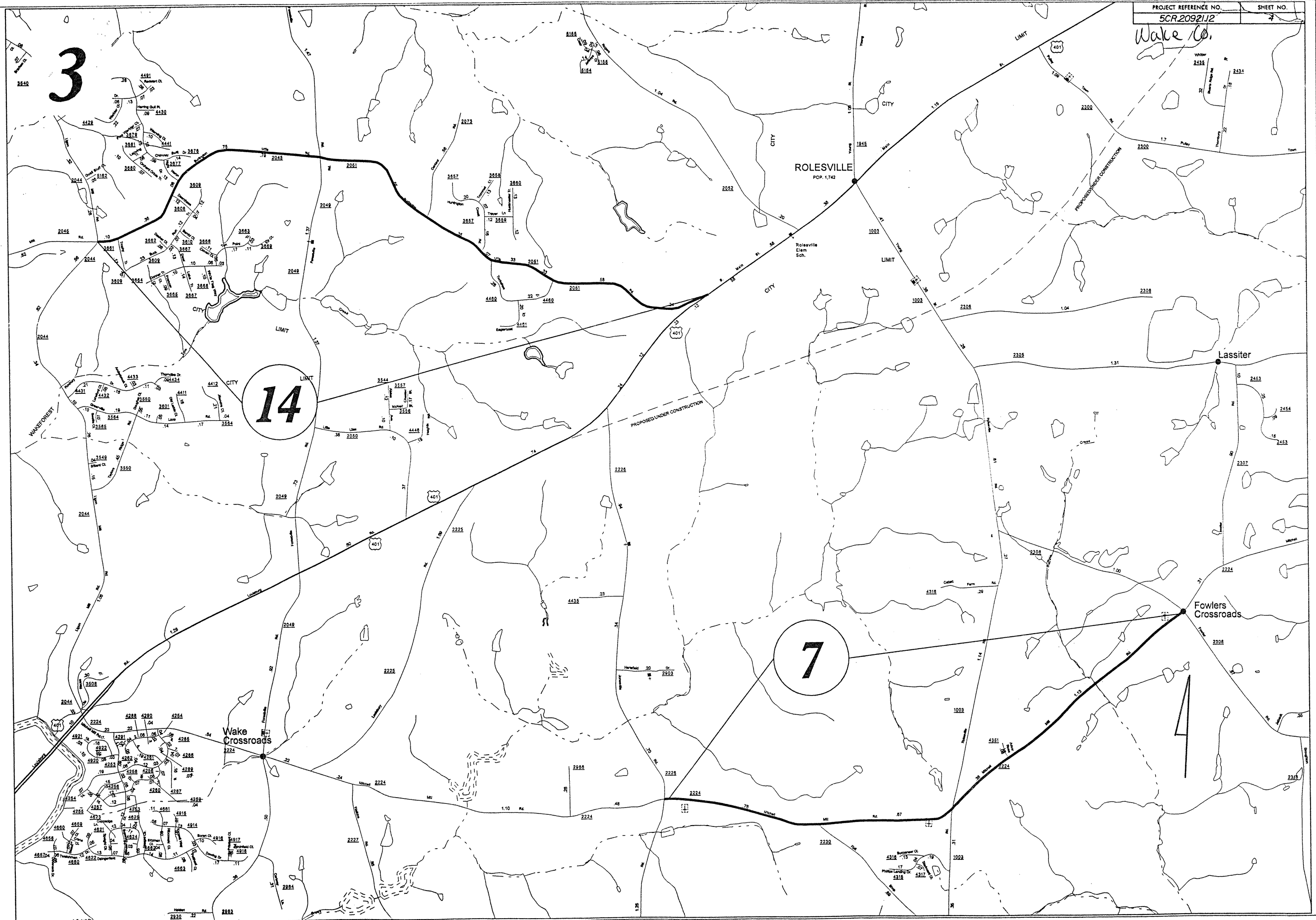


Wake Co.

3

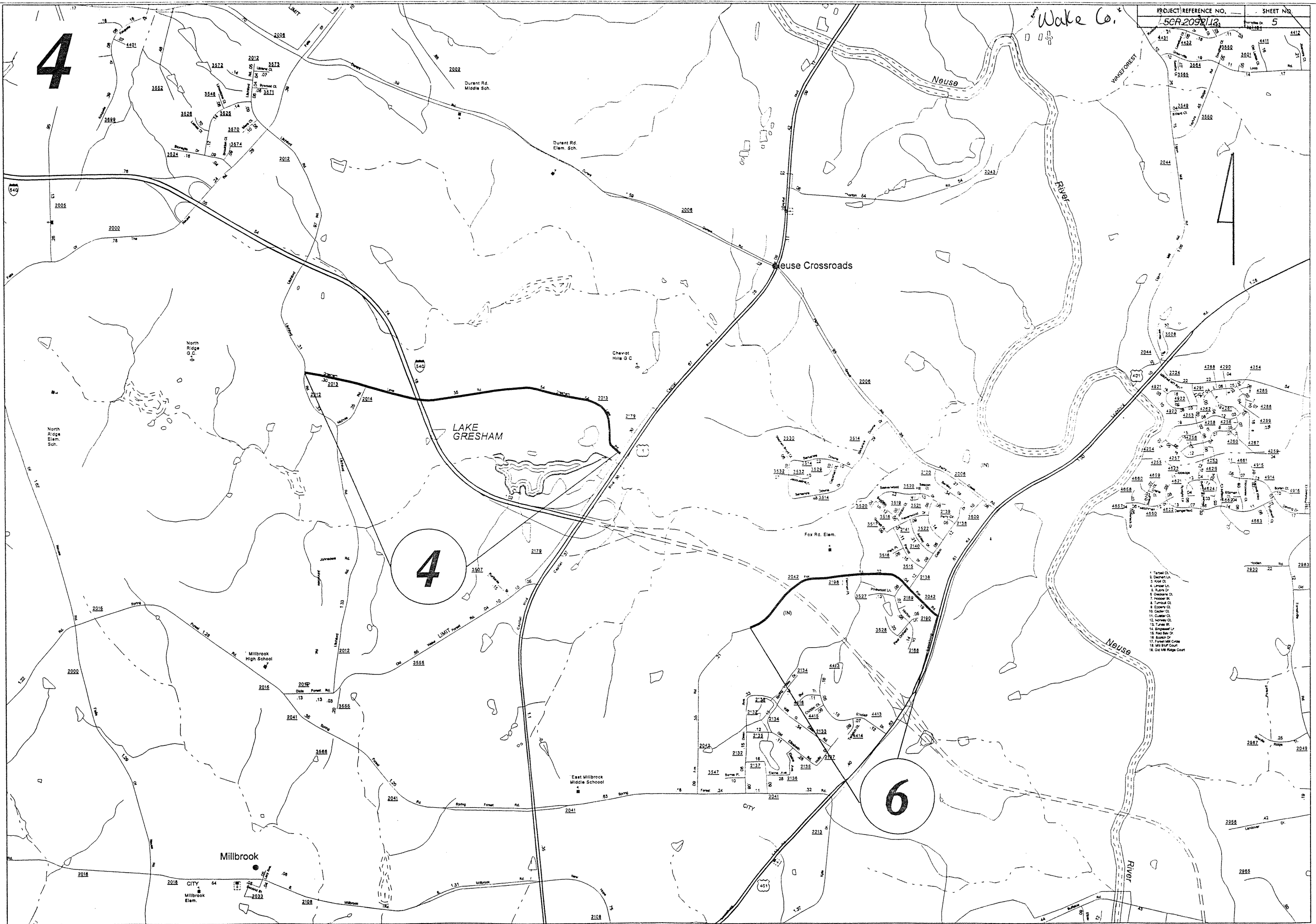
14

7



4

Wake Co.



- 1. Trench CL
- 2. Dashed Ln
- 3. Solid CL
- 4. Dotted Ln
- 5. X-Line Dr
- 6. Dashed CL
- 7. Dotted CL
- 8. Trench CL
- 9. Dotted CL
- 10. Dashed CL
- 11. Dotted CL
- 12. Dotted CL
- 13. Trench CL
- 14. Dotted CL
- 15. Red Bay Dr
- 16. Dotted CL
- 17. Forest Mill Court
- 18. Old Mill Ridge Court

Wake Co.

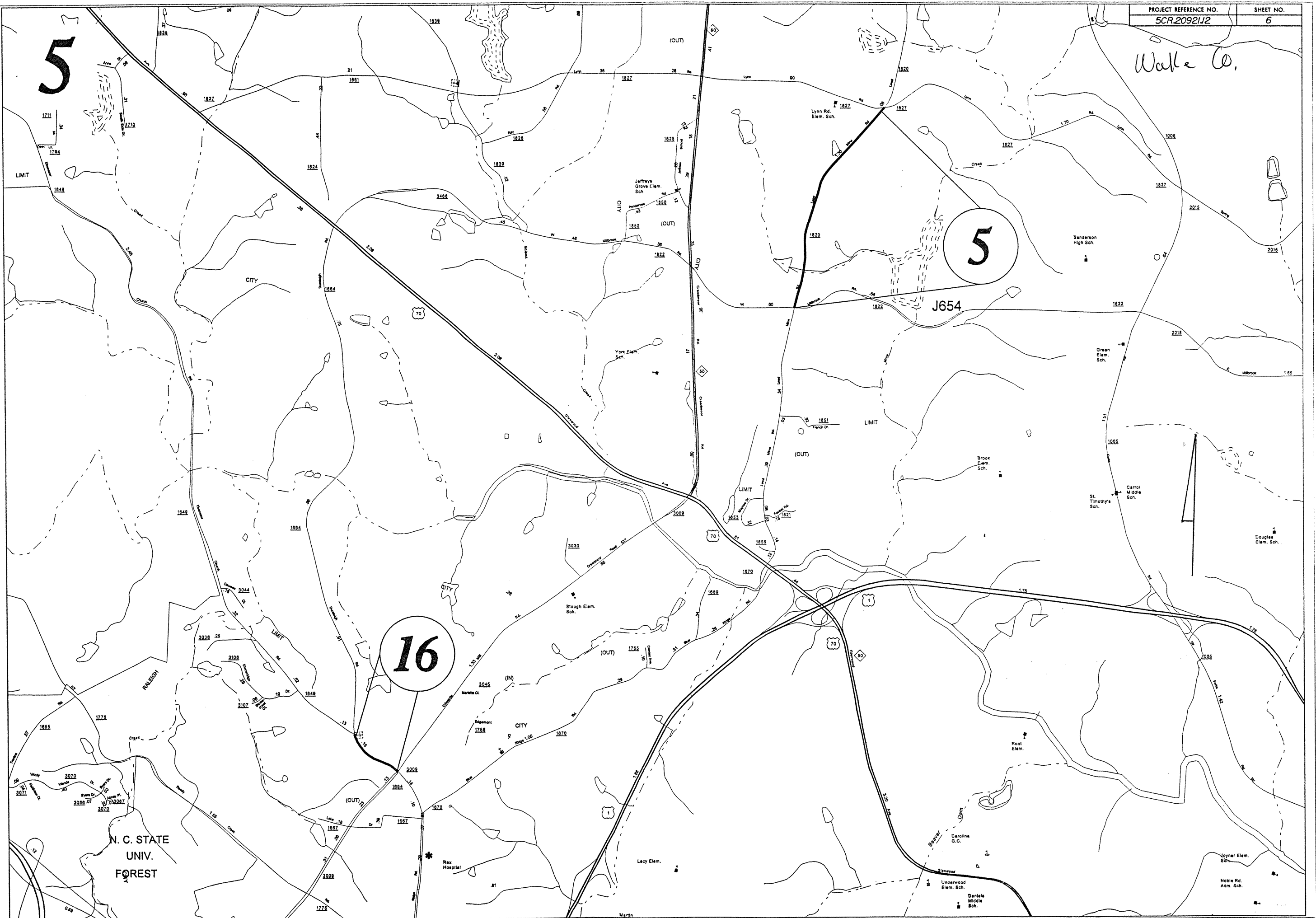
5

5

J654

16

N. C. STATE UNIV. FOREST



Wake Co.

6

13

9

10

Green Level

(OUT)

CITY

CITY

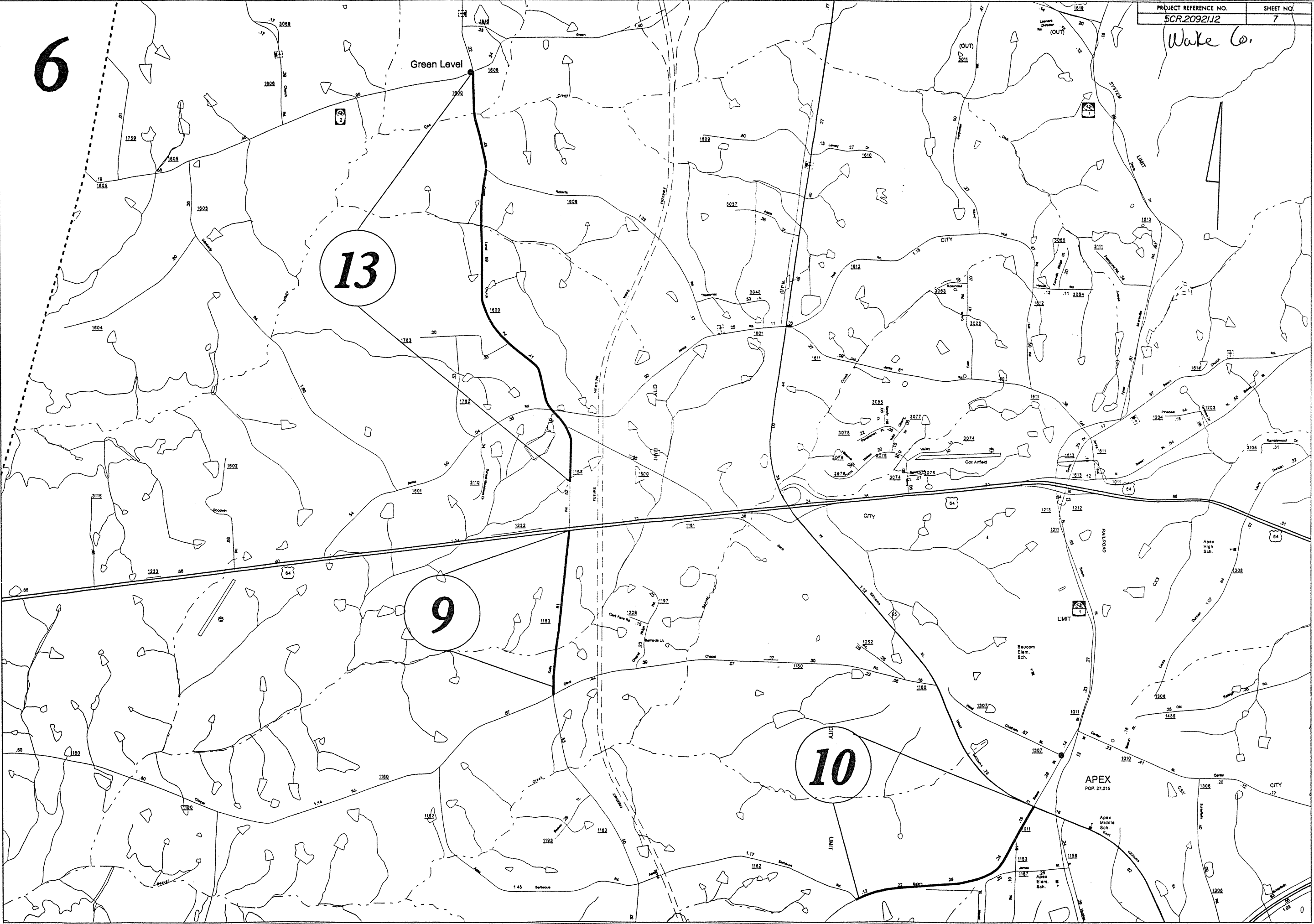
APEX  
POP. 27,216

Apex Middle Sch.

Apex Elem. Sch.

Apex High Sch.

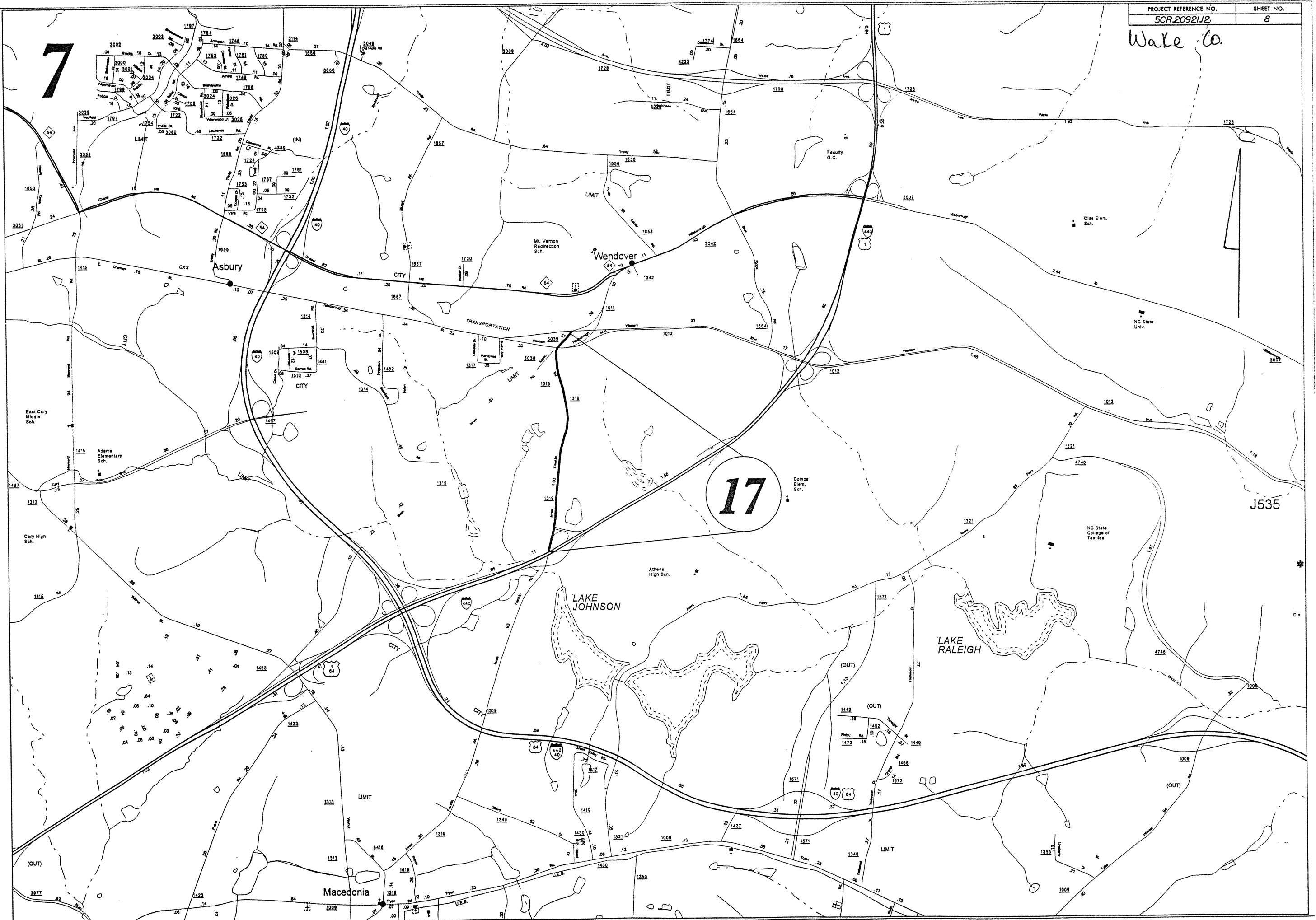
CITY



Wake Co.

7

17



J535

LAKE JOHNSON

LAKE RALEIGH

Macedonia

Asbury

Wendover

NC State Univ.

NC State College of Textiles

Adams High Sch.

Combs Elem. Sch.

Faculty O.C.

Olds Elem. Sch.

East Cary Middle Sch.

Cary High Sch.

Adams Elementary Sch.

TRANSPORTATION

LIMIT

LIMIT

(OUT)

(OUT)

(OUT)

LIMIT

(OUT)

LIMIT

(OUT)

(OUT)

(OUT)

3877

1423

1423

1423

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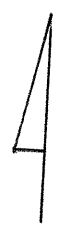
1423



Wake Co.

8

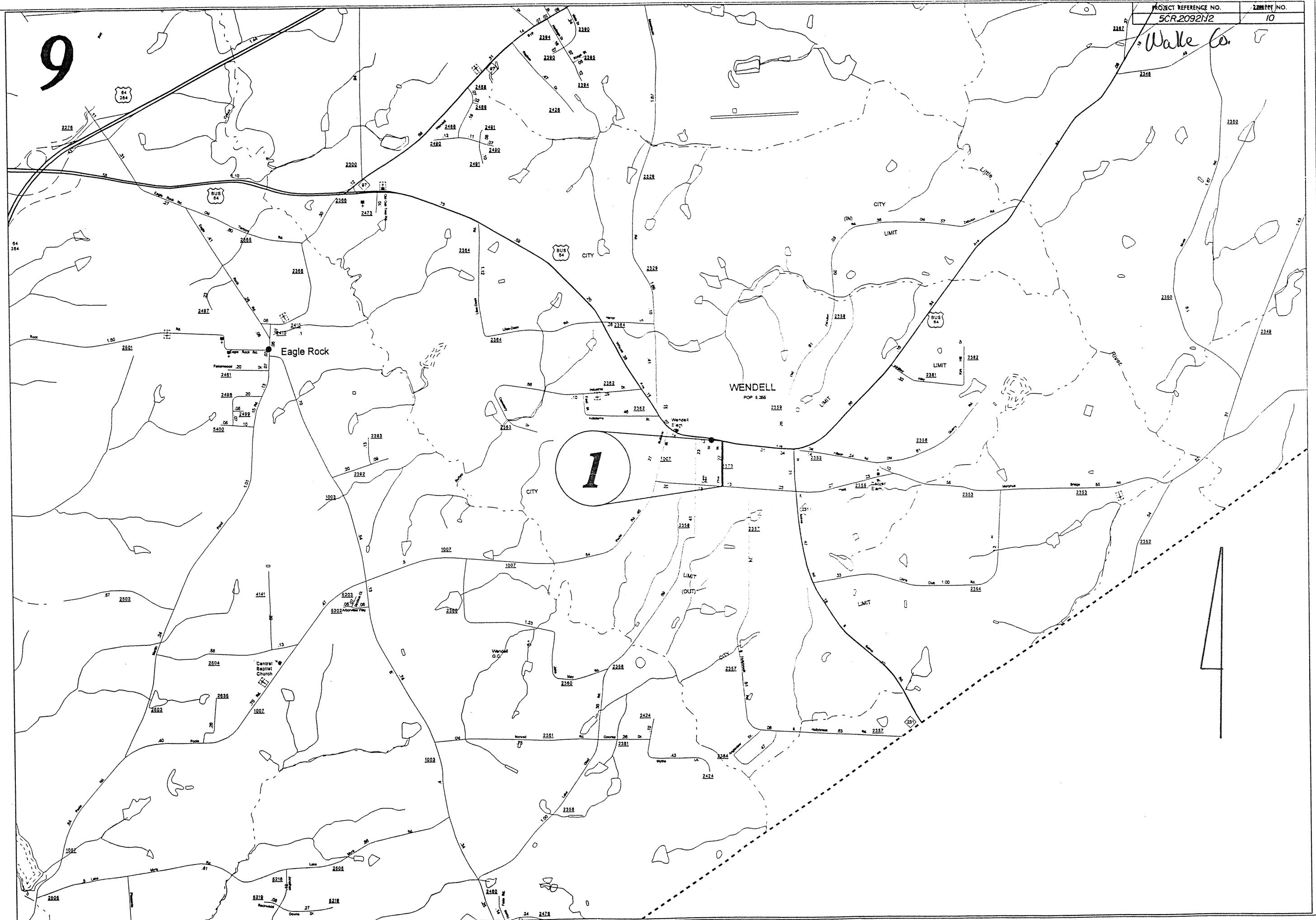
8



Walle Co.

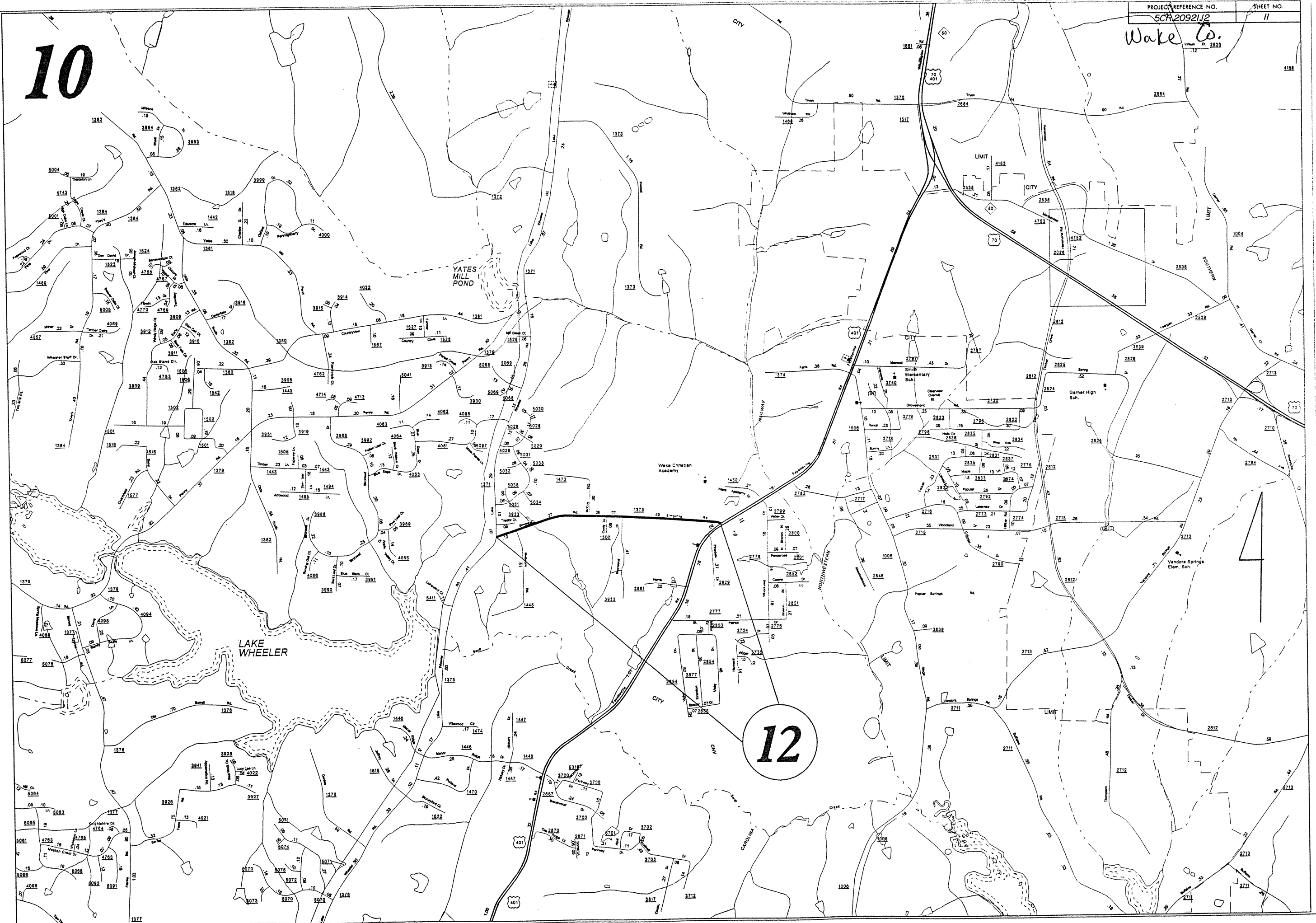
9

1



Wake Co.

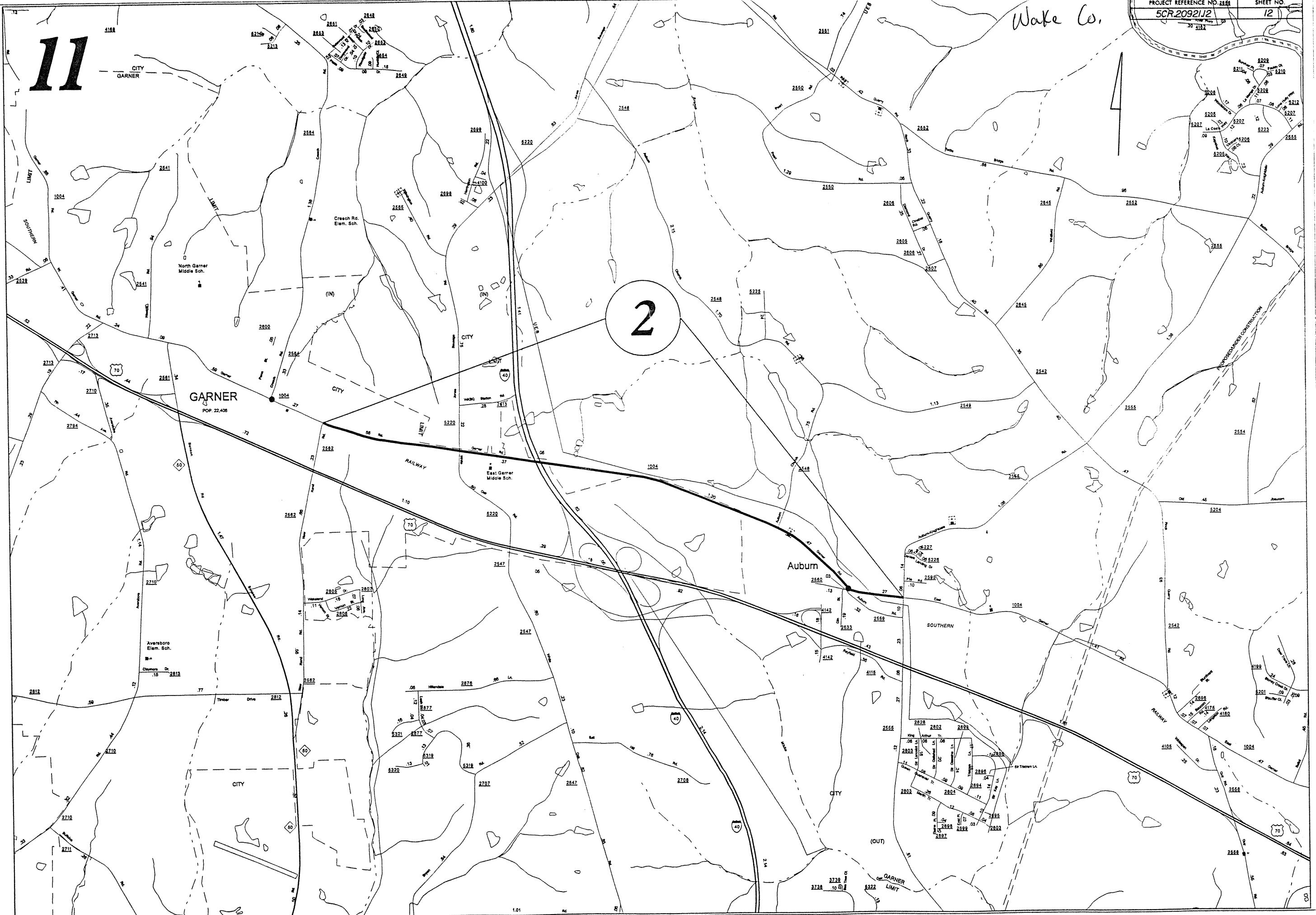
10



12

11

Wake Co.



2

GARNER  
POP. 22,408

Auburn

CITY GARNER

CITY

CITY

(OUT)

GARNER LIMIT

LIMIT

LIMIT

RAILWAY

SOUTHERN

SOUTHERN

North Garner Middle Sch.

Creech Rd. Elem. Sch.

East Garner Middle Sch.

Aversboro Elem. Sch.

Chayens Dr.

Timber Drive

St. Thomas Ln.

La Crest Dr.

La Crest Dr.

La Crest Dr.

La Crest Dr.

La Crest Dr.

La Crest Dr.

La Crest Dr.

La Crest Dr.

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La Crest Dr.

La Crest Dr.

La Crest Dr.

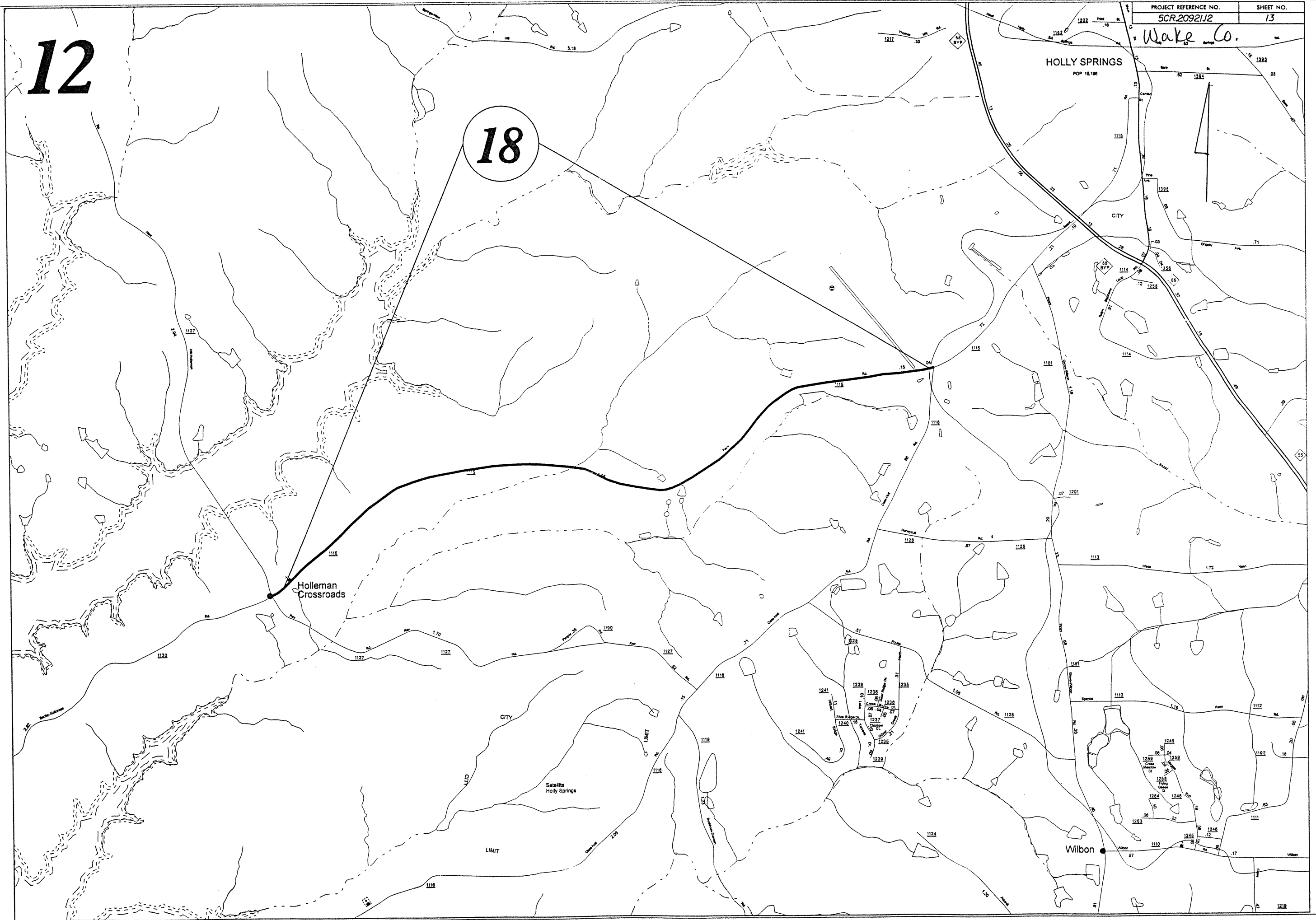
La Crest Dr.

La Crest Dr.

La Crest Dr.

12

18



Holleman Crossroads

HOLLY SPRINGS  
POP 15,100

CITY

CITY

Satellite  
Holly Springs

LIMIT

Wilton

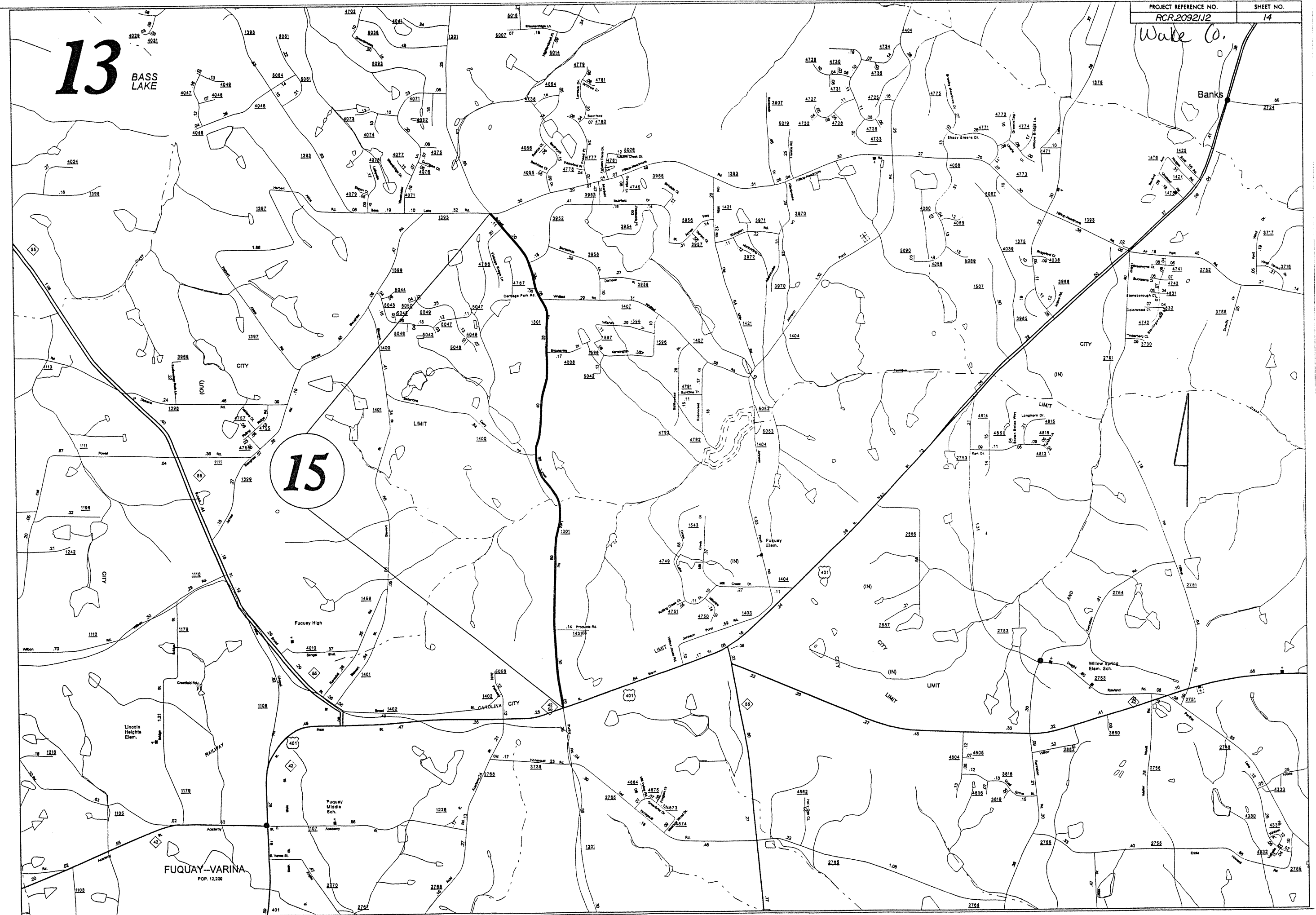
Wake Co.

Banks

13 BASS LAKE

15

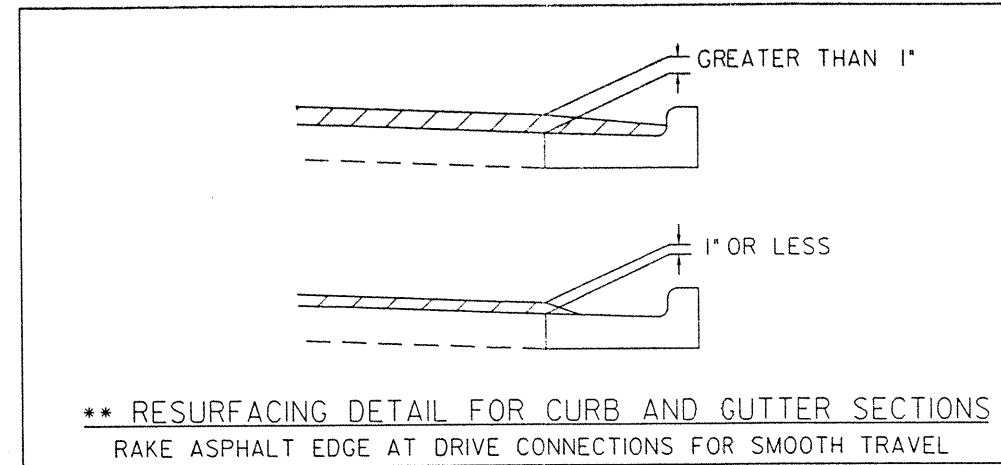
FUQUAY-VARINA POP. 12,300



PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
5CR.2092 I.12	15	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

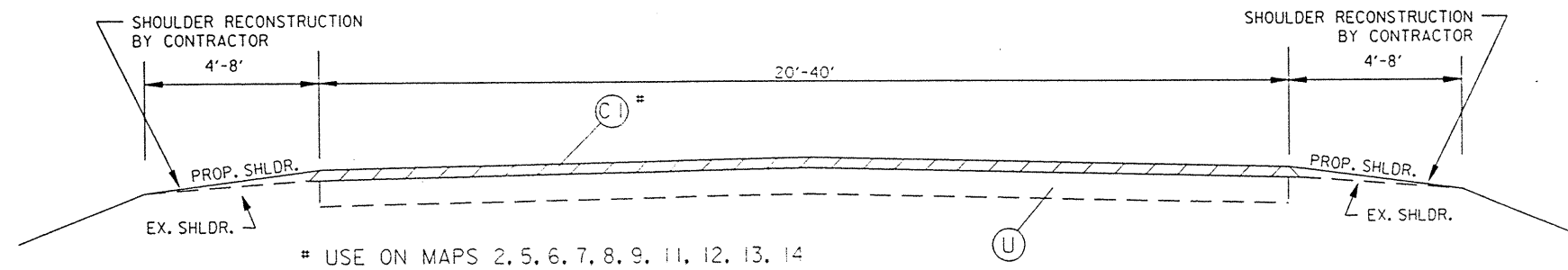
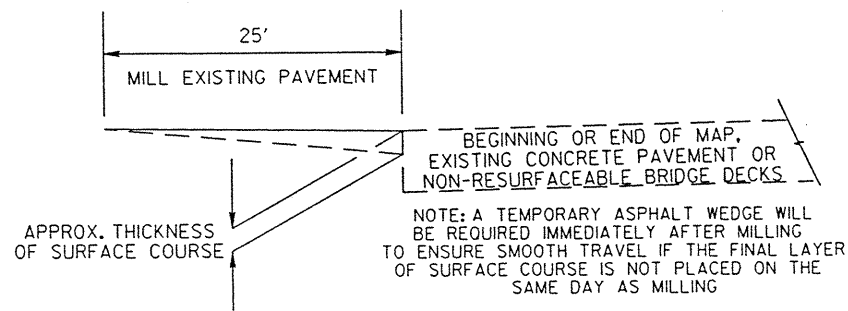
# PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1-1/2" ASPH. CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D)	PROP. APPROX. 2-1/2" ASPH. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E)	PROP. APPROX. 6" ASPH. CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 684 LBS. PER SQ. YD.
(VI)	MILL 1.5" IN DEPTH
(U)	EXISTING PAVEMENT



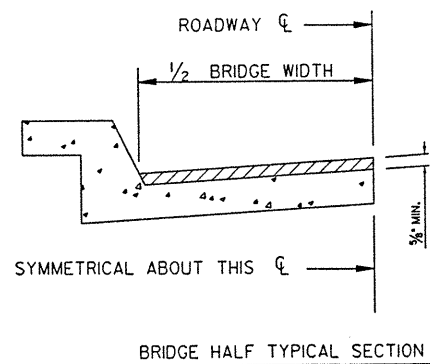
### NOTES

ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT  
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.  
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.  
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



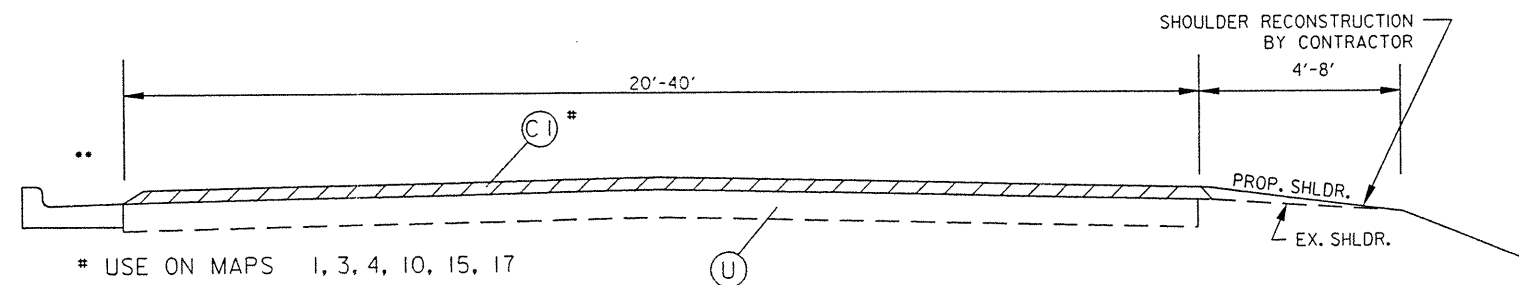
NOTE: CONTRACTOR SHALL TIE TO PAVEMENT JOINTS AT THE NEW BRIDGES FOR MAP 12

TYPICAL SECTION NO. 1



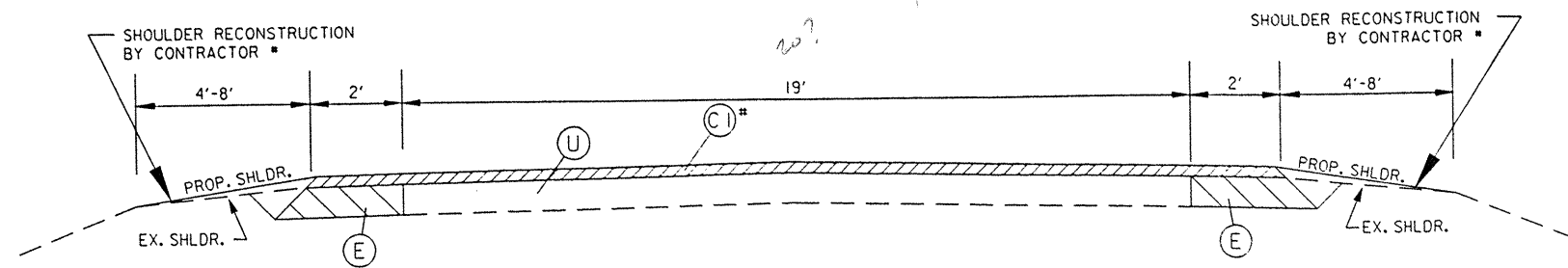
FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 3/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1 1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.



TYPICAL SECTION NO. 2

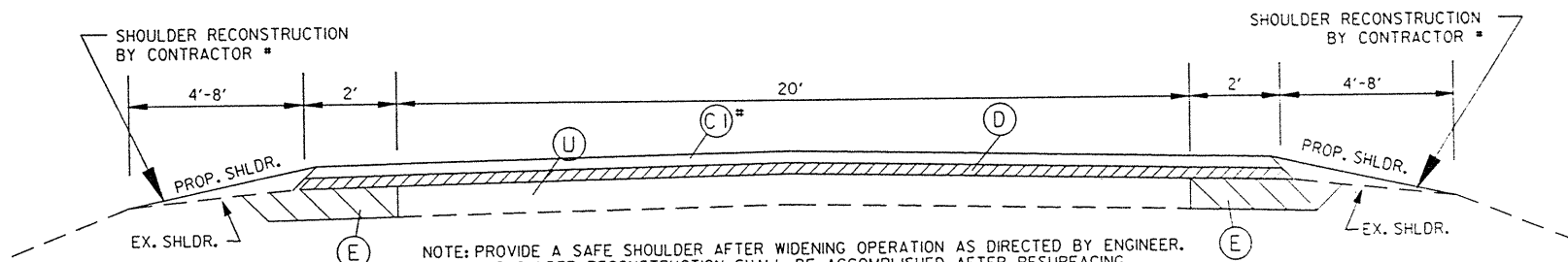
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
5CR.2092 I. 12. 5C.092 I22	16	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION



# USE ON MAP 7

NOTE: PROVIDE A SAFE SHOULDER AFTER WIDENING OPERATION AS DIRECTED BY ENGINEER.  
 FULL SHOULDER RECONSTRUCTION SHALL BE ACCOMPLISHED AFTER RESURFACING.  
 (SEE CONTRACT FOR MAP AND TYPICAL NUMBERS)  
 CONTRACTOR MUST CUT WEEP HOLES DURING WIDENING OPERATIONS FOR DRAINAGE  
 NOTE: MITCHELL MILL ROAD TO BE WIDENED FROM FOWLER ROAD TO ROLESVILLE ROAD

TYPICAL SECTION NO. 3

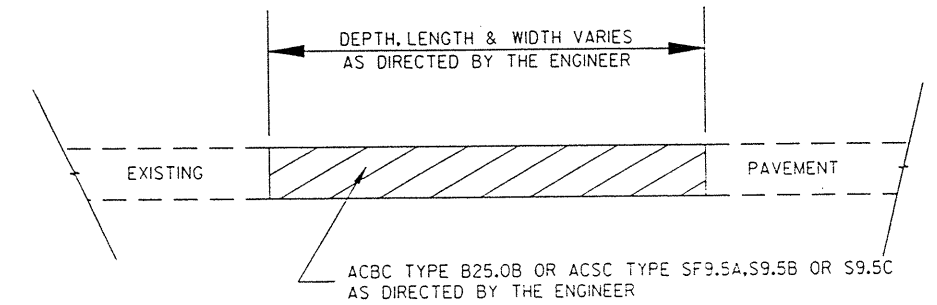


# USE ON MAP 18

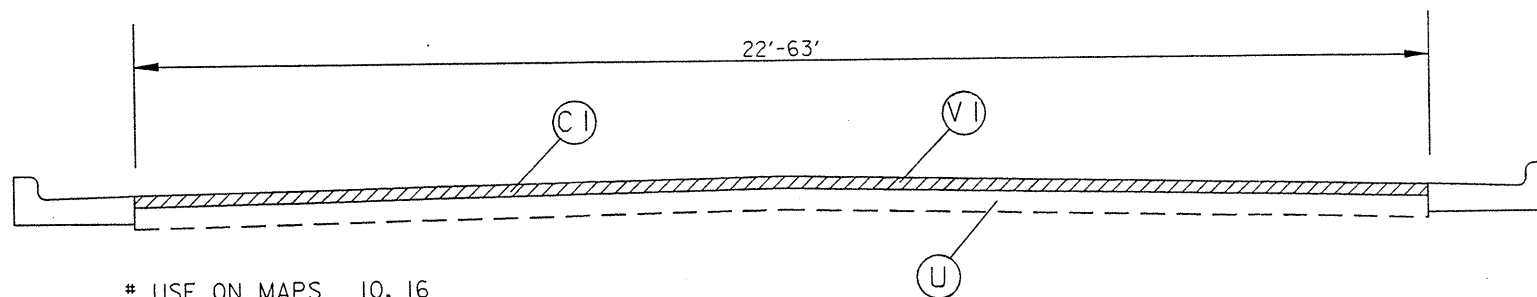
NOTE: PROVIDE A SAFE SHOULDER AFTER WIDENING OPERATION AS DIRECTED BY ENGINEER.  
 FULL SHOULDER RECONSTRUCTION SHALL BE ACCOMPLISHED AFTER RESURFACING.  
 (SEE CONTRACT FOR MAP AND TYPICAL NUMBERS)  
 CONTRACTOR MUST CUT WEEP HOLES DURING WIDENING OPERATIONS FOR DRAINAGE

NOTE: THE DEPTH OF NEW PAVEMENT SHOWN IN THIS TYPICAL SECTION WILL REQUIRE A GREATER THAN NORMAL AMOUNT OF EARTH MATERIAL FOR SHOULDER RECONSTRUCTION

TYPICAL SECTION NO. 4



PATCHING EXISTING PAVEMENT



# USE ON MAPS 10, 16

TYPICAL SECTION NO. 5



PROJECT NO.	SHEET NO.	TOTAL NO.
5CR.20921.12, 5C.092122	17	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJ. OF DROP INLET EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	SEED & MULCHING AC	INDUCTIVE LOOP LF
5CR.20921.12	Wake	1	SR 2373 - PINE ST	FROM US 64 BUS. TO THIRD ST.	2	0.21	32	10	0.21		370			366	22	107		3	2	0.16	
		2	SR 1004 - OLD GARNER RD	FROM SR 2562 - NEW RAND RD TO SR 2555 - AUBURN KNIGHTDALE RD	1	2.85	20	143	5.7		540			3,460	208	1,425		2	1	4.13	
		3	SR 1930 - STADIUM DR	FROM SR 1954 - N. WINGATE ST. TO US 1	2	1.01	20	51	2.02		320			2,005	120	556	2	7	8	1.46	
		4	SR 2013 - GRESHAM LAKE RD	FROM US 1 TO SR 2012 - LITCHFORD RD	2	1.7	21	85	2.5		470			2,830	170	1,200		2	7	2.47	
		5	SR 1820 - LEAD MINE RD	FROM SR 1822 - MILLBROOK RD TO SR 1827 - LYNN RD	1	0.98	25	49	1.96		500			1,854	111	490		9	20	1.42	
		6	SR 2042 - FOX RD	FROM US 401 TO PAVEMENT JOINT AT BIVENS RD	1	0.67	22	34	1.34		380			1,116	67	367			5	0.97	
		7	SR 2224 - MITCHELL MILL RD	FROM SR 2929 - PEEBLES RD TO SR 2308 - FOWLER RD	1,3	2.74	24	137	5.48		300	1501		3,583	280	1,370				3.97	
		8	SR 2516 - HODGE RD	FROM SR 1007 - POOLE RD TO RR TRACKS	1	1.14	24	57	2.28		320			1,581	95	570				1.65	
		9	SR 1163 - KELLY RD	FROM US 64 TO SR 1160 - OLIVE CHAPEL RD	1	0.77	20	39	1.54		170			1,002	60	600			1	1.12	
		10	SR 1011 - OLD US 1	FROM SR 1162 - APEX BARBECUE RD TO NC 55	2,5	1.09	22	55	1.77	3895	150			1,619	97	442		1	3	1.28	
		11	SR 1831 - OLD CREEDMORE RD	FROM NC 98 TO SR 1901 - CARPENTER POND RD	1	1.56	22	78	3.12		380			1,902	114	780				2.26	
		12	SR 1375 - SIMPKINS RD	FROM SR 1371 TO US 401	1	1.13	23	56	2.26		200			1,479	89	800				1.64	
		13	SR 1600 - GREEN LEVEL CHURCH RD	FROM PAVEMENT JOINT AT US 64 TO SR 1605 - GREEN LEVEL RD WEST	1	2.11	20	106	4.22		140			2,302	138	1,600				3.06	
		14	SR 2045 - BURLINGTON MILLS RD	FROM SR 2044 - LIGON MILL RD TO US 401	1	3.36	23	168	6.72		200			4,508	271	1,848			3	4.87	
		15	SR 1301 - SUNSET LAKE RD	FROM SR 1393 - BASS LAKE RD TO US 401	2	2.36	23	118	3.5		160			3,683	221	1,180			3	3.42	
		16	SR 1664 - DURALEIGH RD	FROM SR 3009 - EDWARDS MILL RD TO CITY OF RAL. PROJ. JNT.	5	0.31	63			11458				1,104	66				2		480
		17	SR 1319 - JONES FRANKLIN RD	FROM SR 1012 - WESTERN BLVD. TO US 1	2	0.99	24	50	1.5		390			1,939	116	495		20	4	1.44	
<b>TOTAL FOR PROJ NO. 5CR.20921.12</b>						<b>24.98</b>		<b>1236</b>	<b>46.12</b>	<b>15353</b>	<b>4990</b>	<b>1501</b>		<b>36,333</b>	<b>2,245</b>	<b>13,830</b>	<b>2</b>	<b>44</b>	<b>59</b>	<b>35.32</b>	<b>480</b>
5C.092122	Wake	18	SR 1115 - AVENT FERRY RD	FROM PAVEMENT JOINT AT SCHOOL PROJECT TO SR 1127 - REX RD	4	3.77	24	189	7.54		160	3536	8911	5,236	947	2,074			1	5.47	
<b>TOTAL FOR PROJ NO. 5C.092122</b>						<b>3.77</b>		<b>189</b>	<b>7.54</b>	<b>0</b>	<b>160</b>	<b>3536</b>	<b>8911</b>	<b>5,236</b>	<b>947</b>	<b>2,074</b>			<b>1</b>	<b>5.47</b>	
<b>GRAND TOTAL</b>						<b>28.75</b>		<b>1425</b>	<b>53.66</b>	<b>15353</b>	<b>5150</b>	<b>5037</b>	<b>8911</b>	<b>41,569</b>	<b>3,192</b>	<b>15,904</b>	<b>2</b>	<b>44</b>	<b>60</b>	<b>40.79</b>	<b>480</b>

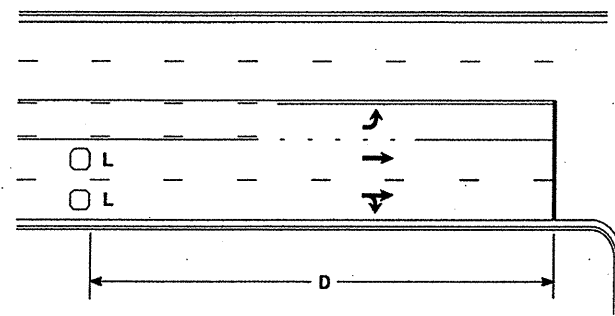
PROJECT NO.	SHEET NO.	TOTAL NO.
5CR.20921.12, 5C.092122	18	

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E		4686000000-E		4697000000-E	4705000000-E	4710000000-E	4721000000-E			4725000000-E			4900000000-N	4900000000-N				
					4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 120 M WHITE THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO RXR 120 M EA	THERMO MSG SCHOOL 120 M EA	THERMO MSG ONLY 120 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	THERMO STR ARROW 90 M EA	HANDICAP SYMBOL EA	BICYCLE SYMBOL	BICYCLE ARROW	YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA
5CR.20921.12	Wake	1	SR 2373 - PINE ST	FROM US 64 BUS. TO THIRD ST.	1,424	1,386			100	176	4							1.00			14		
		2	SR 1004 - OLD GARNER RD	FROM SR 2562 - NEW RAND RD TO SR 2555 - AUBURN KNIGHTDALE RD	30,666	18,810				162		12		14	2	5					188		
		3	SR 1930 - STADIUM DR	FROM SR 1945 - N. WINGATE ST. TO US 1	10,868	6,666		100		80		6		16	8	2					67		
		4	SR 2013 - GRESHAM LAKE RD	FROM US 1 TO SR 2012 - LITCHFORD RD	18,292	11,220			100	208		4		19	1		1				112		
		5	SR 1820 - LEAD MINE RD	FROM SR 1822 - MILLBROOK RD TO SR 1827 - LYNN RD	10,545	6,468		288		212		6	8								65		
		6	SR 2042 - FOX RD	FROM US 401 TO PAVEMENT JOINT AT BIVENS RD	7,209	4,422				104		6		5							44		
		7	SR 2224 - MITCHELL MILL RD	FROM SR 2929 - PEBBLES RD TO SR 2308 - FOWLER RD	29,482	18,084				48											181		
		8	SR 2516 - HODGE RD	FROM SR 1007 - POOLE RD TO RR TRACKS	12,266	7,524			50	298	2	12		3							75		
		9	SR 1163 - KELLY RD	FROM US 64 TO SR 1160 - OLIVE CHAPEL RD	8,285	5,082				12				1							51		
		10	SR 1011 - OLD US 1	FROM SR 1162 - APEX BARBECUE RD TO NC 55	11,728	7,194				24				3		2					72		
		11	SR 1831 - OLD CREEDMORE RD	FROM NC 98 TO SR 1901 - CARPENTER POND RD	16,786	10,296				36				1	1			1			103		
		12	SR 1375 - SIMPKINS RD	FROM SR 1371 TO US 401	12,159		7,458			42				3	1						75		
		13	SR 1600 - GREEN LEVEL CHURCH RD	FROM PAVEMENT JOINT AT US 64 TO SR 1605 - GREEN LEVEL RD WEST	22,704	13,926				12											139		
		14	SR 2045 - BURLINGTON MILLS RD	FROM SR 2044 - LIGON MILL RD TO US 401	36,154	22,176				54				5	3						222		
		15	SR 1301 - SUNSET LAKE RD	FROM SR 1393 - BASS LAKE RD TO US 401	25,394	15,576			50	99	2			16	6	1	1			2.00	2.00	156	
		16	SR 1664 - DURALEIGH RD	FROM SR 3009 - EDWARDS MILL RD TO CITY OF RAL. PROJ. JNT.	124	4,092	818	145						10	2			10			41	41	
		17	SR 1319 - JONES FRANKLIN RD	FROM SR 1012 - WESTERN BLVD. TO US 1	10,652	6,534		396		238				16	8	13	5		8		65		
TOTAL FOR PROJ NO. 5CR.20921.12					264,738	166,914	818	929	300	1,805	12	42	24	104	37	15	2	19	1	2	2	1,669	41
						167,732						78					182					1,710	
5C.092122	Wake	18	SR 1115 - AVENT FERRY RD	FROM PAVEMENT JOINT AT SCHOOL PROJECT TO SR 1127 - REX RD	40,565	24,882															249		
TOTAL FOR PROJ NO. 5C.092122					40,565	24,882																249	
GRAND TOTAL					305,303	191,796	818	929	300	1,805	12	42	24	104	37	15	2	19	1	2	2	1,918	41
						192,614						78					182					1,959	



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

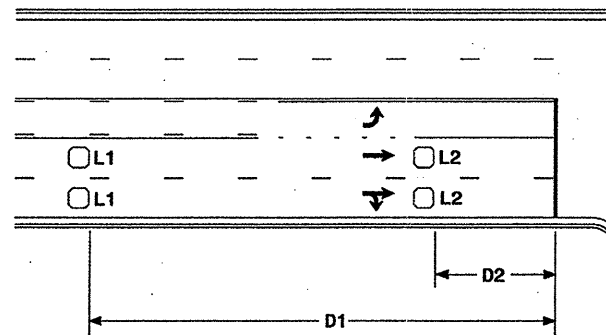


Speed Limit mph (km/hr)	D ft (m)
40 (64)	250 (75)
45 (72)	300 (90)
50 (80)	355 (110)
55 (88)	420 (130)

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



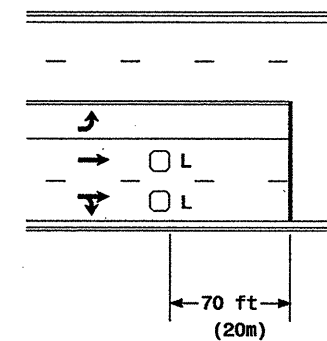
Speed Limit mph (km/hr)	D1 ft (m)	D2 ft (m)
40 (64)	250 (75)	80 (25)
45 (72)	300 (90)	90 (27)
50 (80)	355 (110)	100 (30)
55 (88)	420 (130)	110 (35)

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

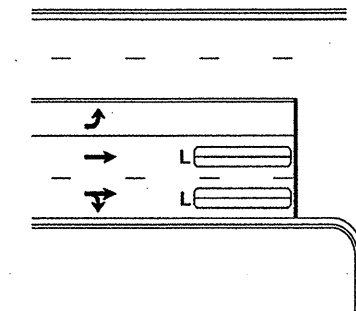
### Low Speed Detection [≤35 mph (56 km/hr)]

5CR.092122 & 5CR.20921.12



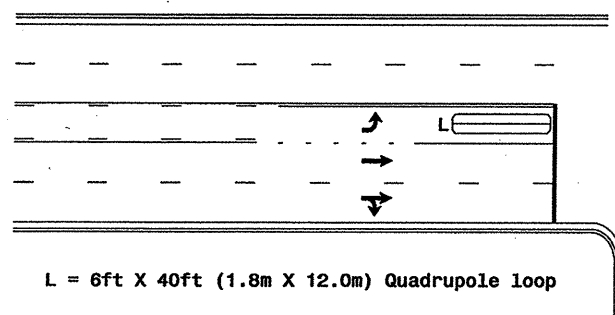
L = 6ft X 6ft (1.8m X 1.8m)  
Wired in series

OR



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

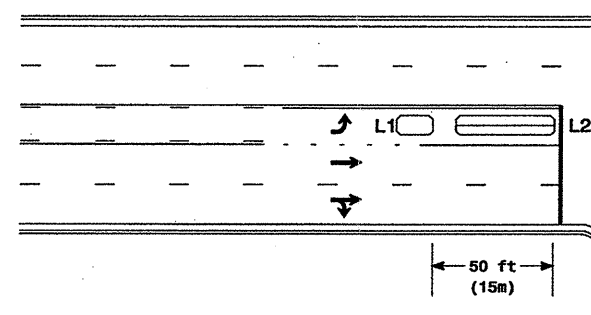
### Left Turn Lane Detection



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

Presence Loop Detection

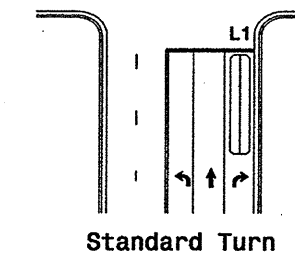
OR



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

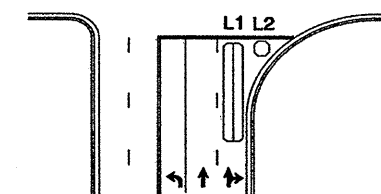
Queue Loop Detection

### Right Turn Lane Detection

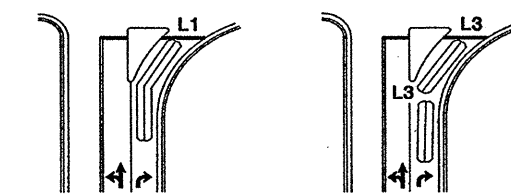


Standard Turn

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

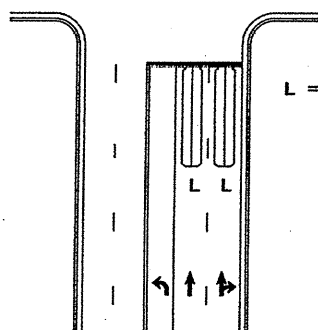


Wide Radius Turn



Channelized Turn

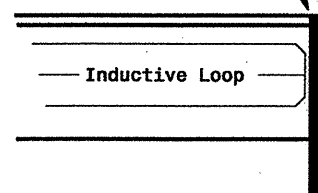
### Side Street Detection



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

	<p>Typical Loop Locations</p>	
	<p>PLAN DATE: June 2006</p>	<p>REVIEWED BY:</p>
<p>PREPARED BY: P. L. Alexander</p>	<p>REVIEWED BY:</p>	<p>DATE: 12/1/06</p>
<p>SCALE: N/A</p>	<p>REVISIONS:</p> <p>1. Revise pavement markings</p>	<p>SIGNATURE: [Signature]</p> <p>DATE: 12/1/06</p>

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ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**

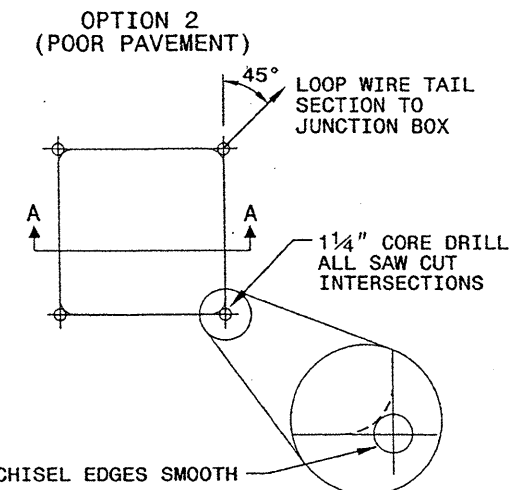
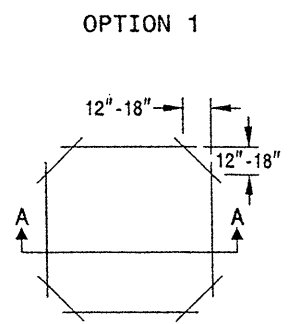
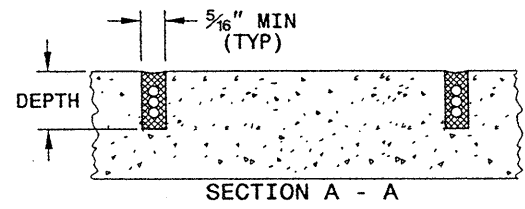
SHEET 1 OF 3  
**1725D01**

**CONVENTIONAL 4-SIDED LOOP**

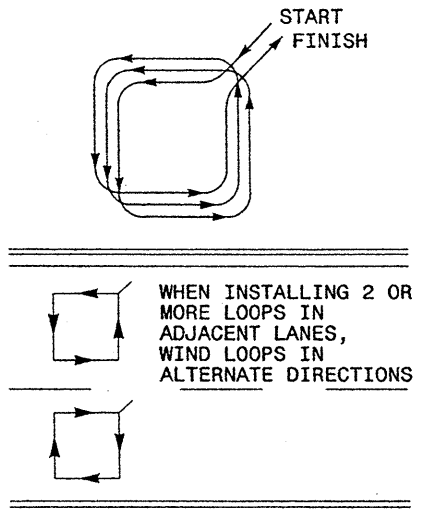
SAW CUT OPTIONS

SAW SLOT DEPTH CHART

DEPTH (IN)	NO. OF WIRE TURNS					
	2	3	4	5	6	
CONCRETE	2.0	2.0	2.5	2.5	3.0	
ASPHALT	2.0	2.5	3.0	3.0	3.0	



LOOP WINDING METHOD



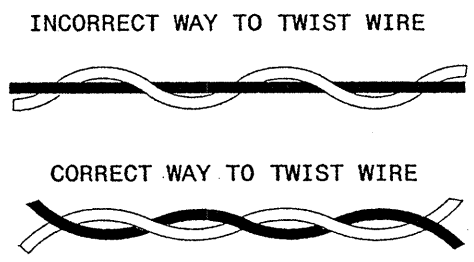
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ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**

SHEET 1 OF 3  
**1725D01**

LOOP WIRE TWISTING METHOD

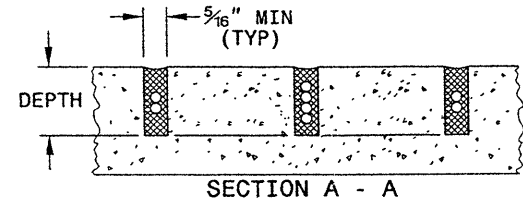
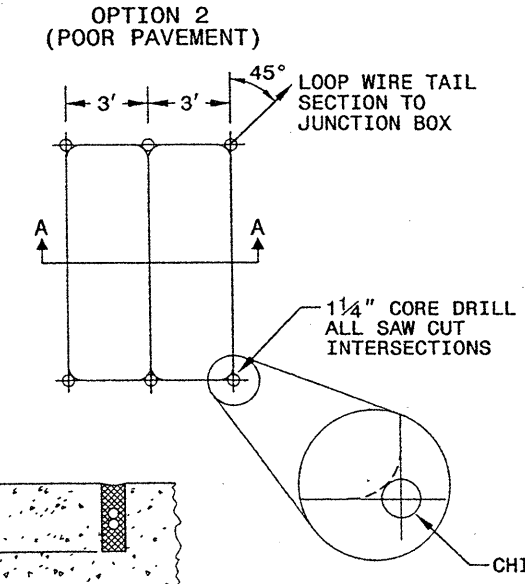
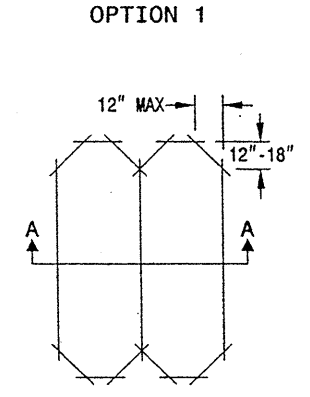


NOTES

1. OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
2. MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
3. WIRE LOOPS CONNECTED TO THE SAME DETECTOR CHANNEL IN SERIES.
4. LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS OR APPROVED BY ENGINEER.

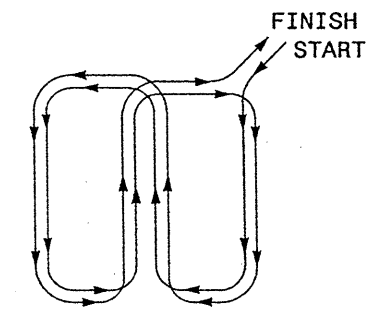
**QUADRUPOLE LOOP**

SAW CUT OPTIONS



DEPTH IS 2.5" FOR CONCRETE AND 3.0" FOR ASPHALT

LOOP WINDING METHOD



See Plate for Title

Prepared in the Offices of:

750 N. Greenfield Parkway  
Garner, NC 27529

SEAL

ENGINEER  
MILTON I. DEAN  
9/5/07  
SIGNATURE DATE

05-SEP-2007 14:00  
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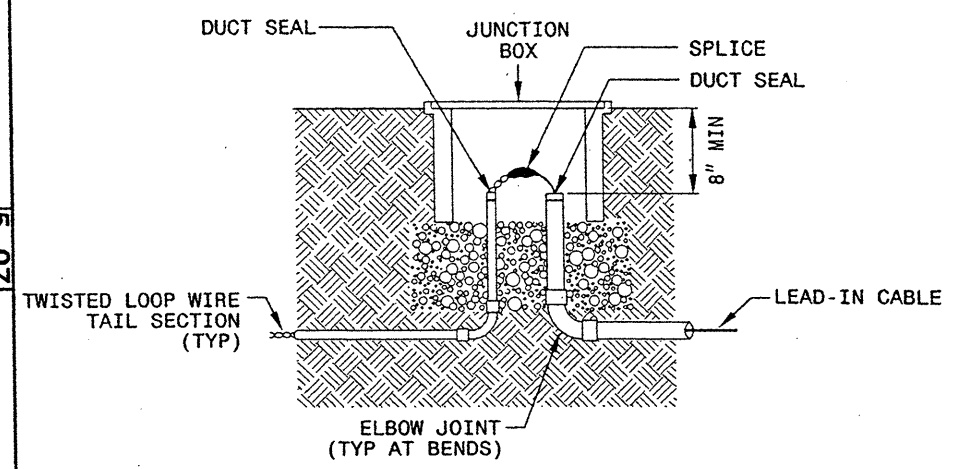
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DIVISION OF HIGHWAYS  
RALEIGH, N.C.

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ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
LOOP WIRE DETAILS

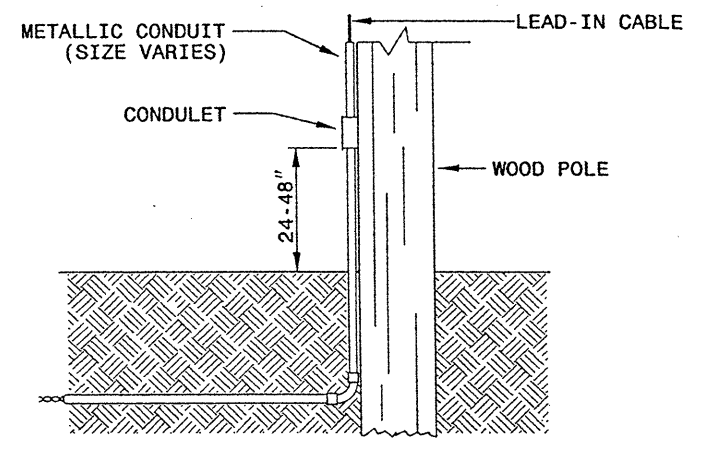
SHEET 2 OF 3  
**1725D01**

**LOOP WIRE SPLICE POINT DETAILS**

**LOOP WIRE AT JUNCTION BOX**



**LOOP WIRE AT POLE**

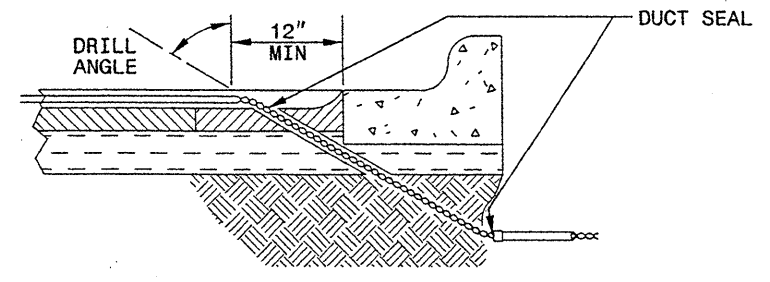


**NOTE**

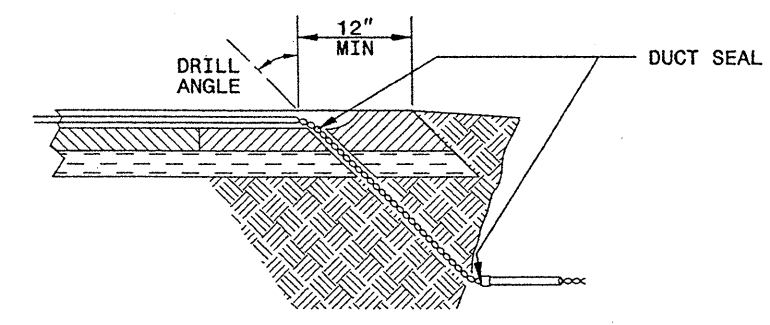
SPLICE ALL LOOP WIRE TAIL SECTIONS/LEAD-IN CABLE IN JUNCTION BOXES OR APPROVED CONDULETS.

**LOOP WIRE PAVEMENT EDGE DETAILS**

**LOOP WIRE AT CURB & GUTTER SECTION**



**LOOP WIRE AT PAVEMENT SECTION**



**NOTES**

1. DO NOT EXCAVATE UNDER CURB AND GUTTER SECTIONS FOR CONDUIT INSTALLATION.
2. TWIST LOOP WIRE TAIL SECTIONS FROM WHERE LOOP WIRE TAIL LEAVES SAW CUT TO JUNCTION BOX, INCLUDING THROUGH CONDUIT.
3. BEFORE SEALING LOOPS, INSTALL DUCT SEAL WHERE LOOP WIRE TAIL SECTION LEAVES SAW CUT IN PAVEMENT AND AT ENTRANCE OF CONDUIT TO JUNCTION BOX.

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ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
LOOP WIRE DETAILS

SHEET 2 OF 3  
**1725D01**

See Plate for Title



SEAL

SEAL  
016286  
ENGINEER  
MILTON I. DEAN

*Milton I. Dean* 9/5/07  
SIGNATURE DATE

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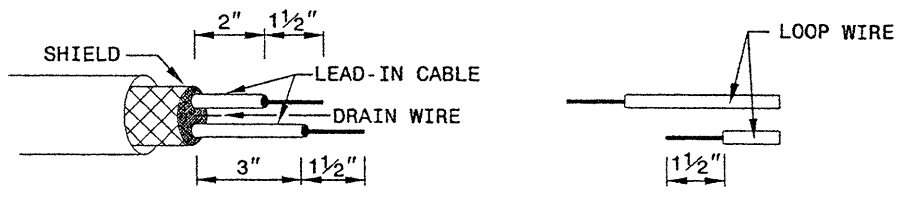
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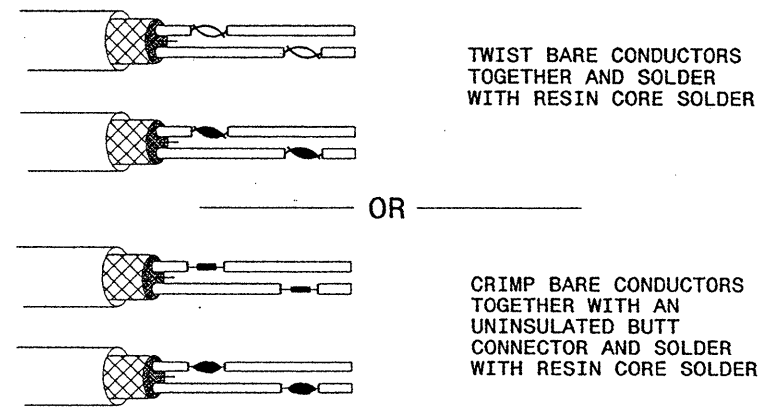
ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
SPlicing FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3  
**1725D01**

**STEP 1. STRIP LOOP WIRE AND LEAD-IN CABLE**

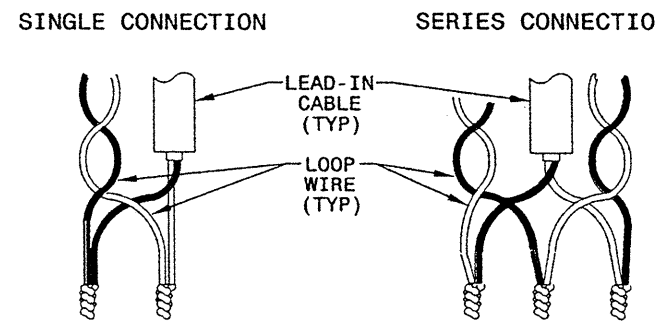


**STEP 2. CONNECT AND SOLDER**

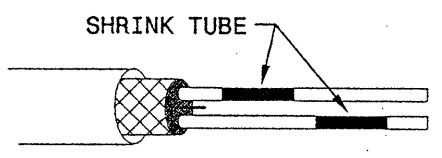


BOND SHIELD DRAIN WIRE AT SPLICE SECTIONS (DO NOT GROUND)

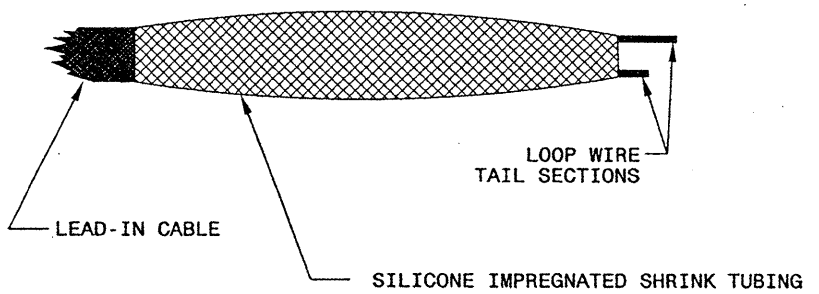
**LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS**



**STEP 3. INSULATE EACH SOLDER JOINT SEPARATELY**



**STEP 4. ENVIRONMENTALLY PROTECT SPLICE**



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ENGLISH DETAIL DRAWING FOR  
**INDUCTIVE DETECTION LOOPS**  
SPlicing FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3  
**1725D01**

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Garner, NC 27529

SEAL

ENGINEER  
MILTON I. DEAN

*Milton I. Dean* 9/5/07  
SIGNATURE      DATE

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