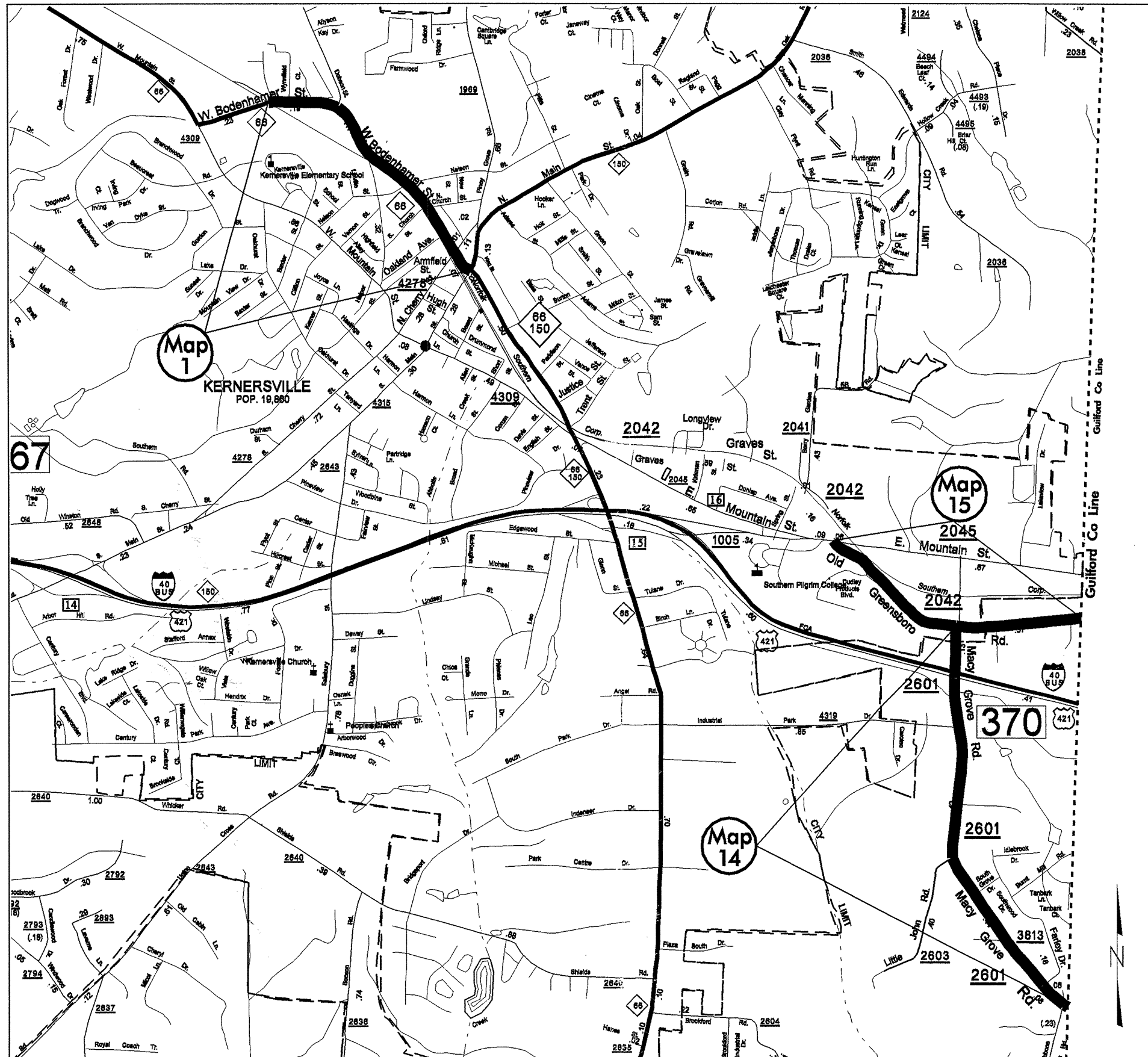


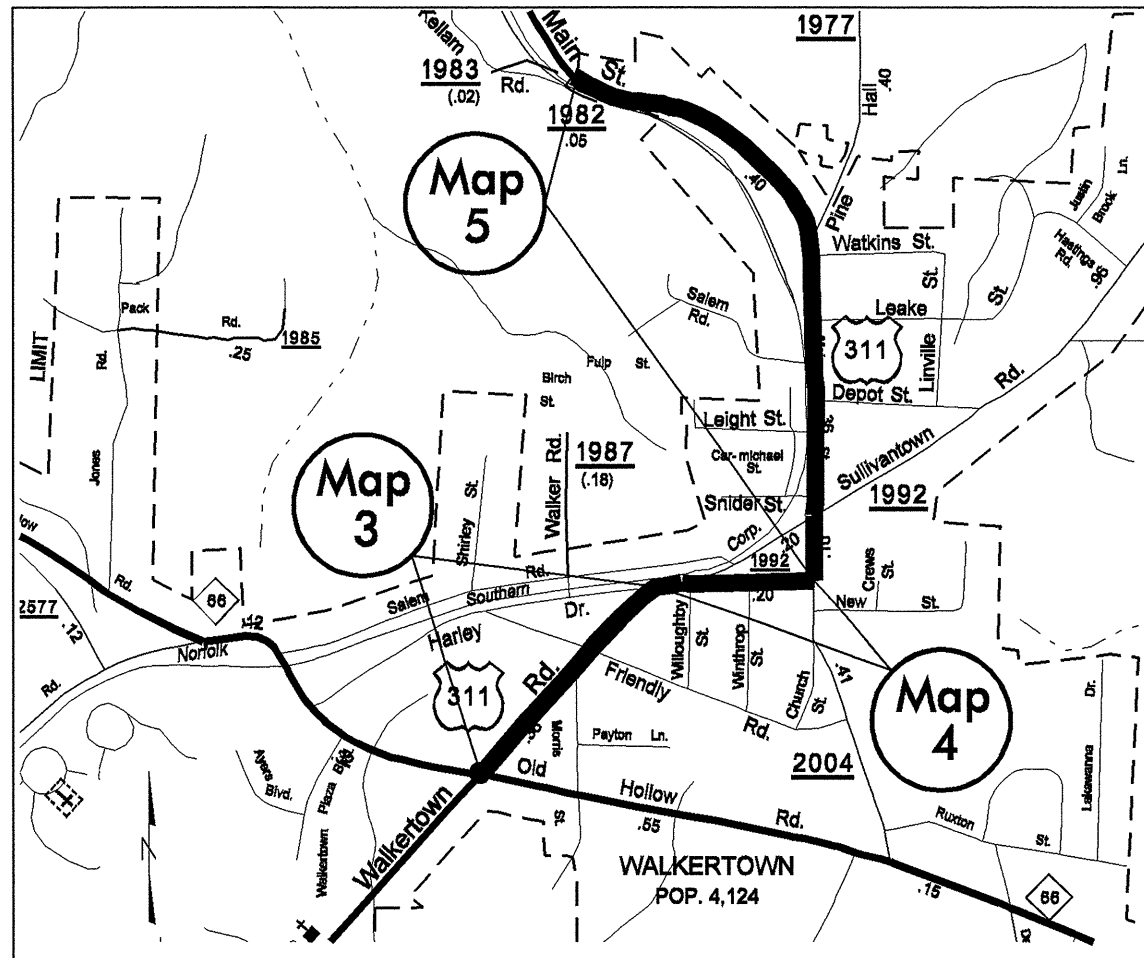
C 211710



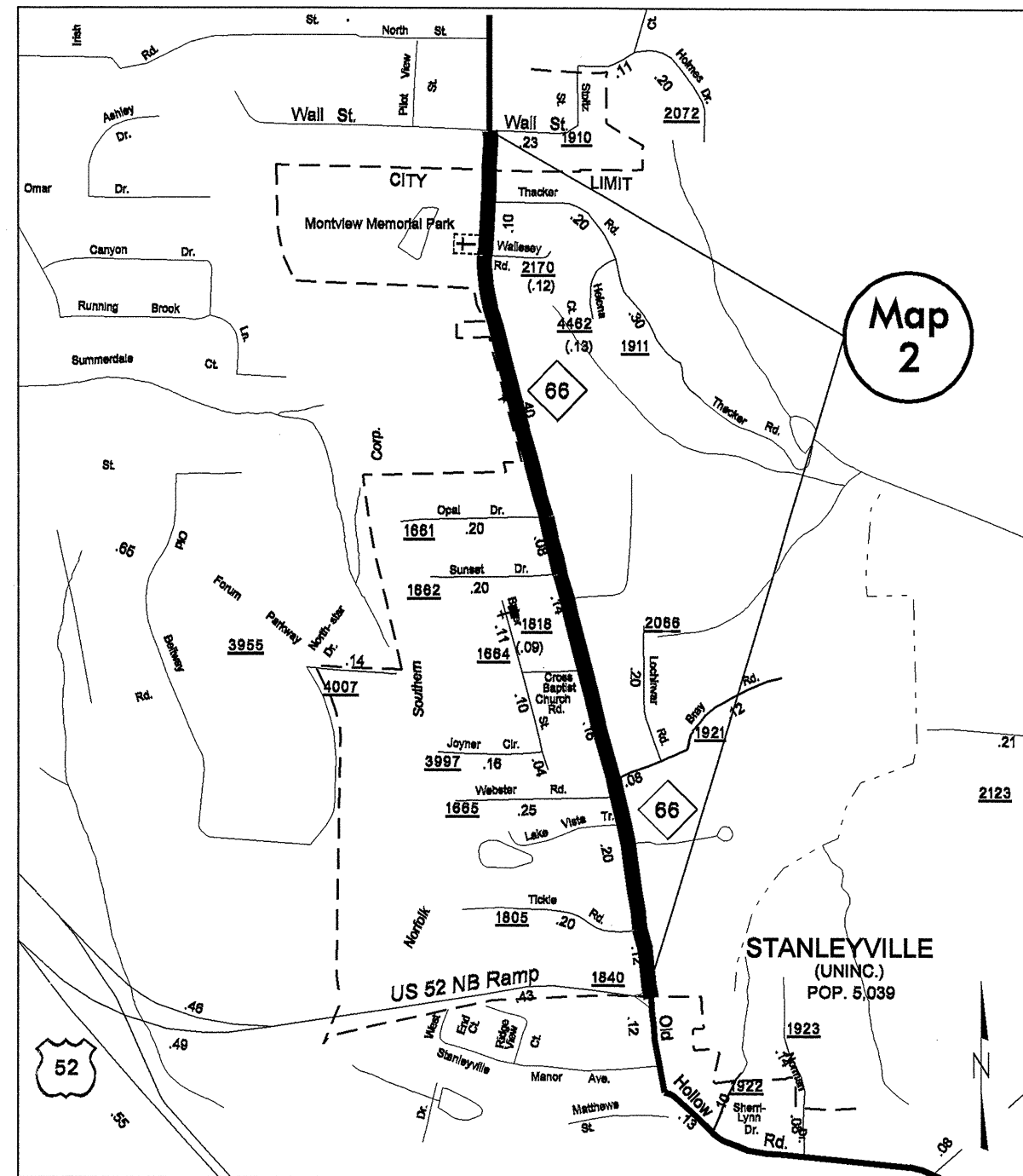
Maps 1, 14, 15

FORSYTH COUNTY

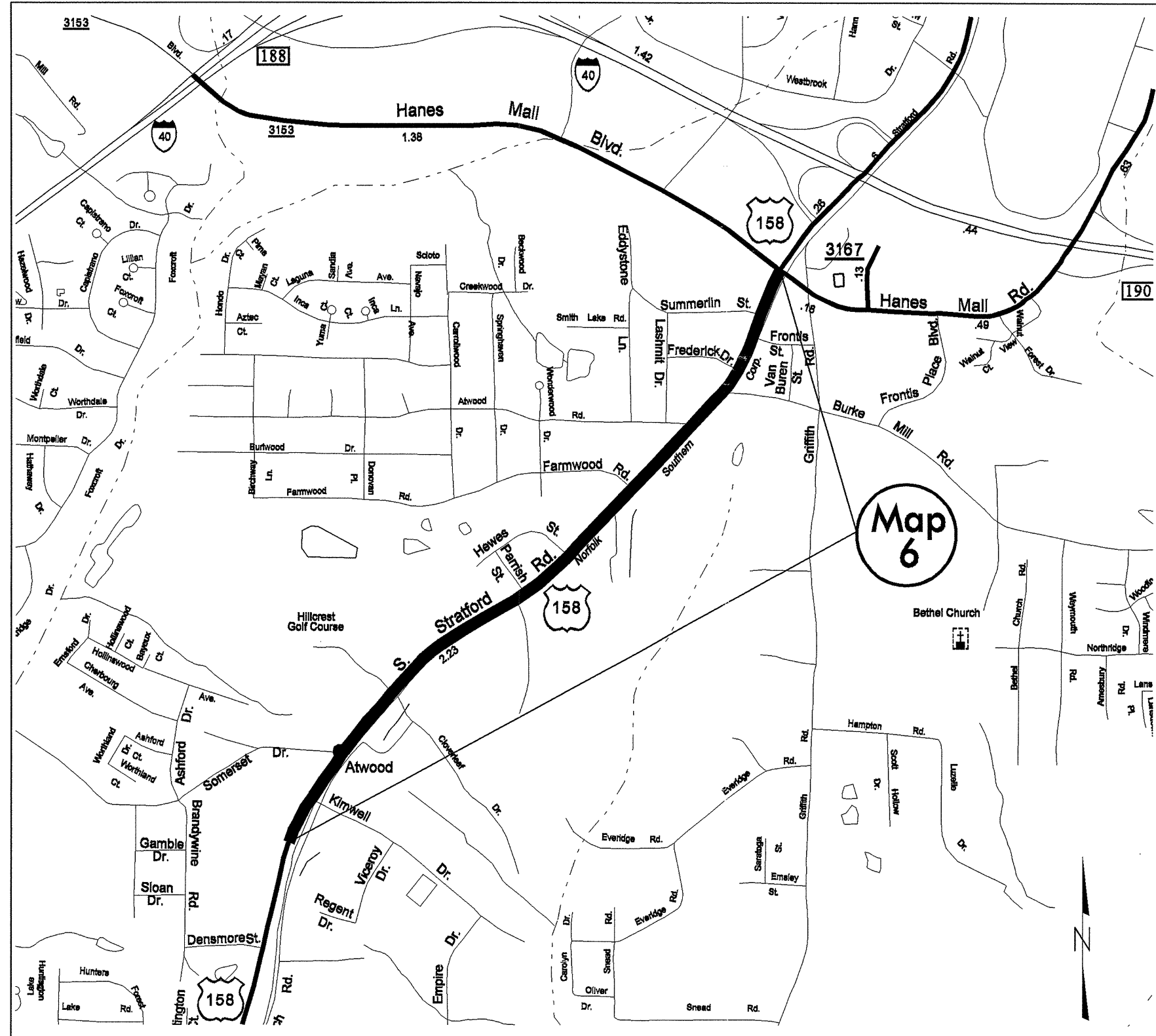
NORTH CAROLINA



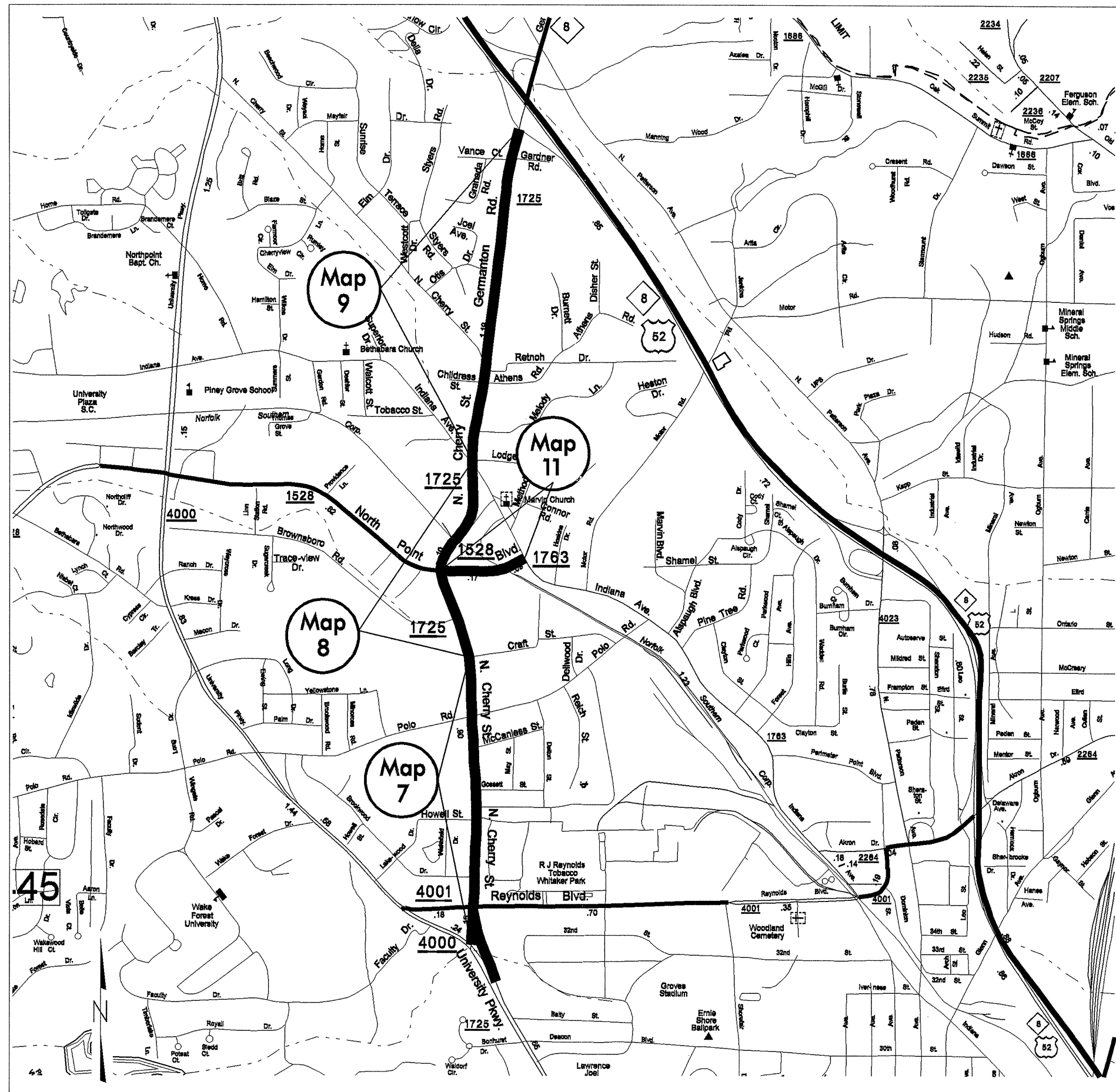
Maps 3, 4, and 5



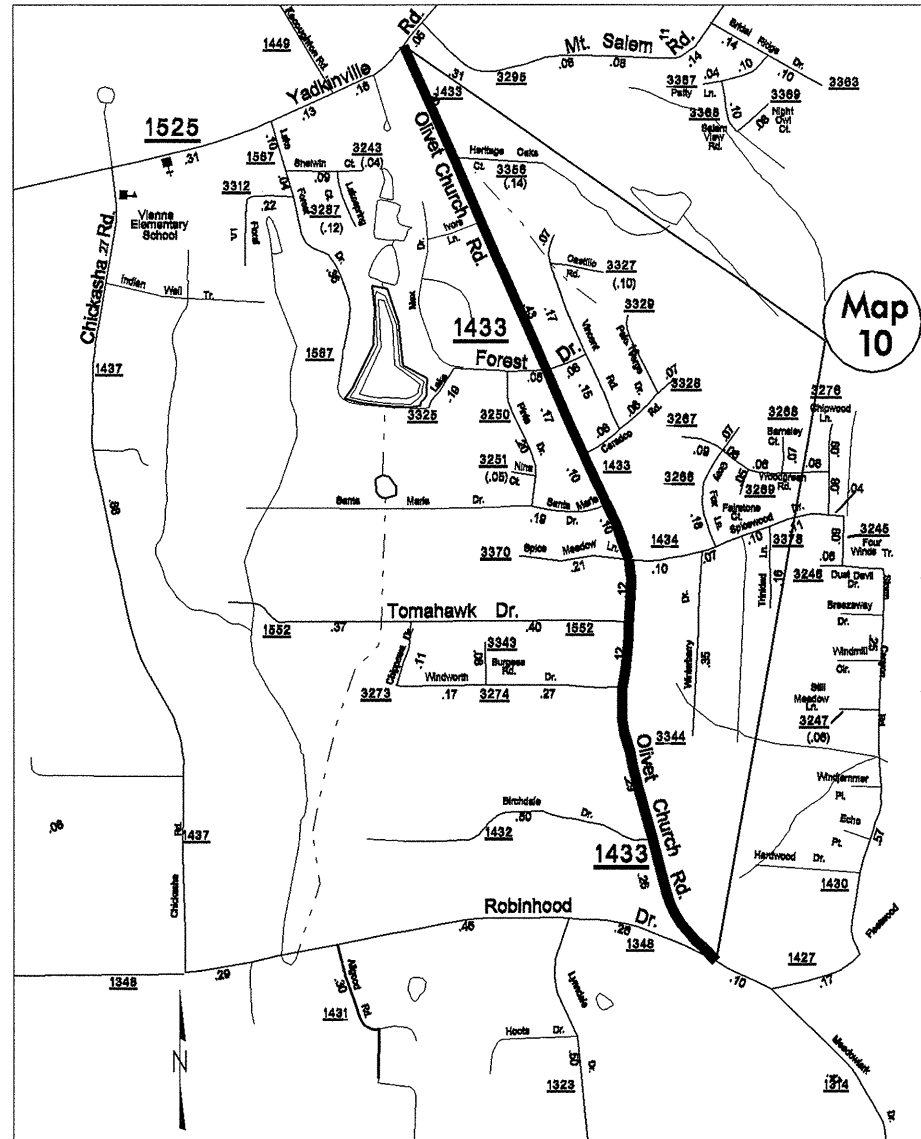
Map 2



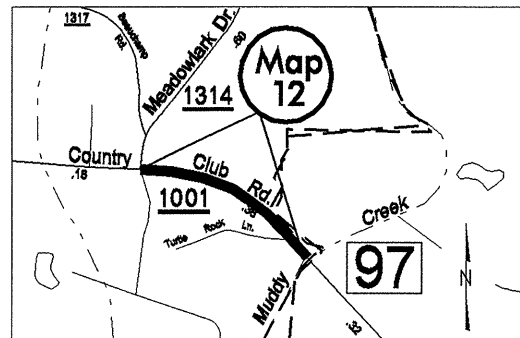
Map 6



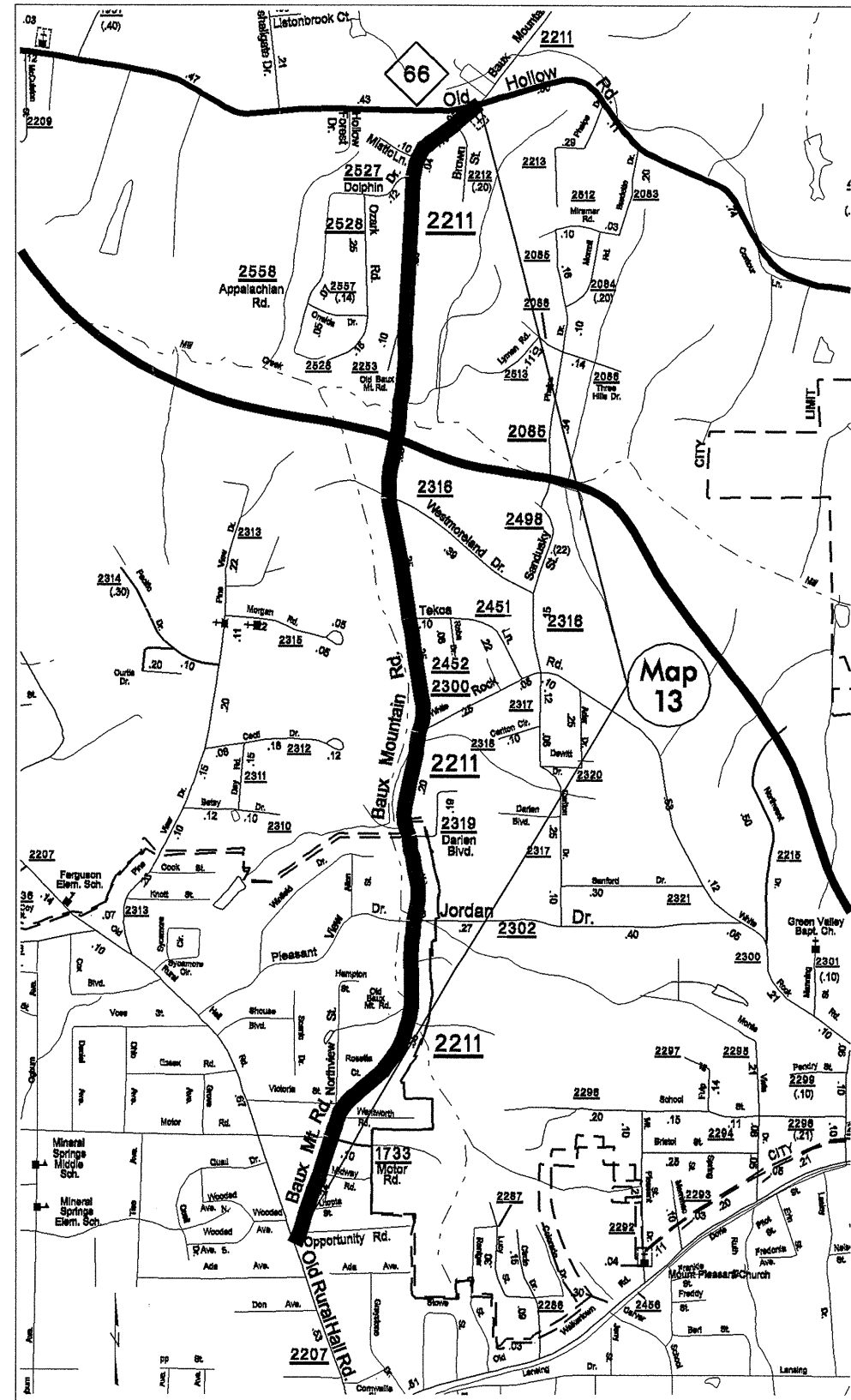
Maps 7, 8, 9, and 11



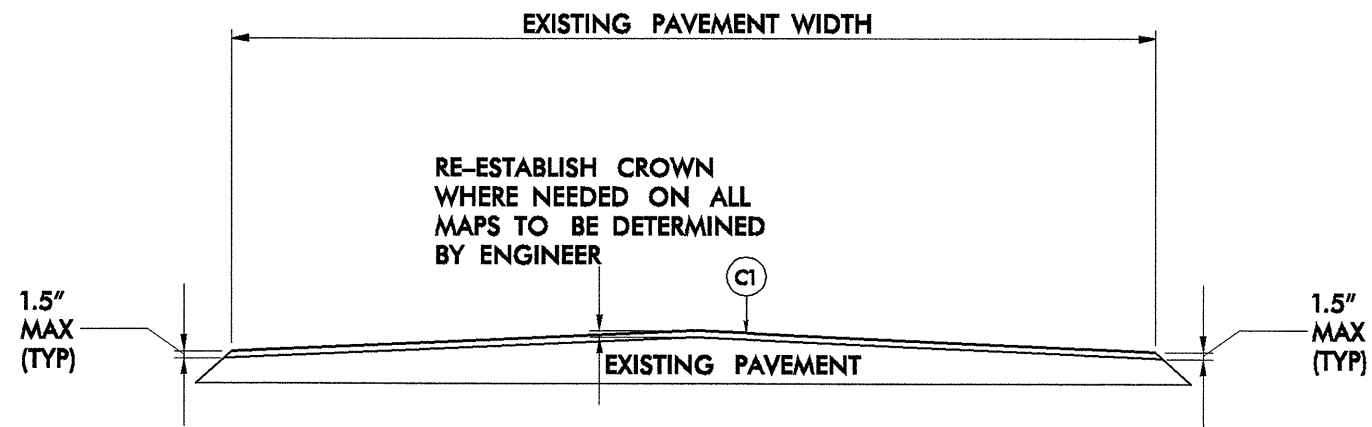
Map 10



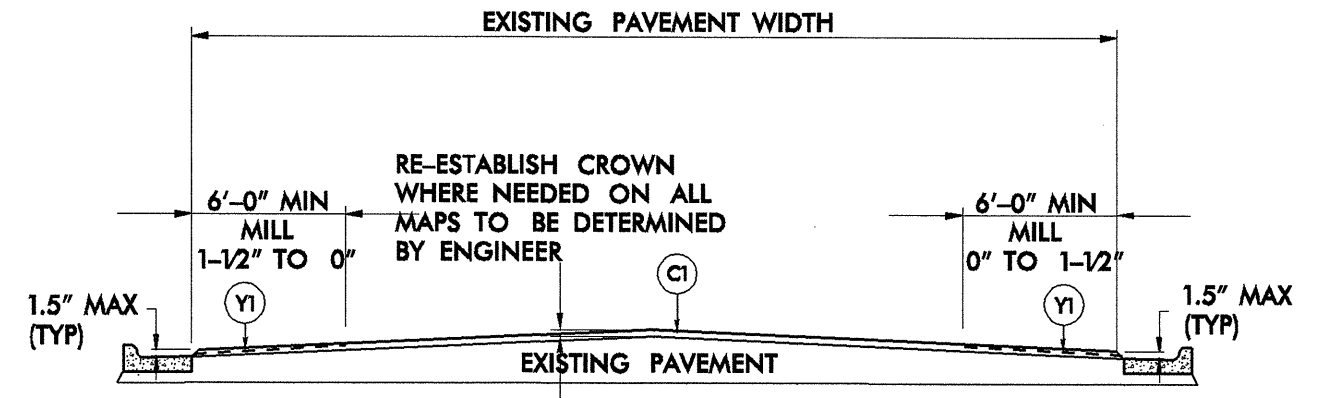
Map 12



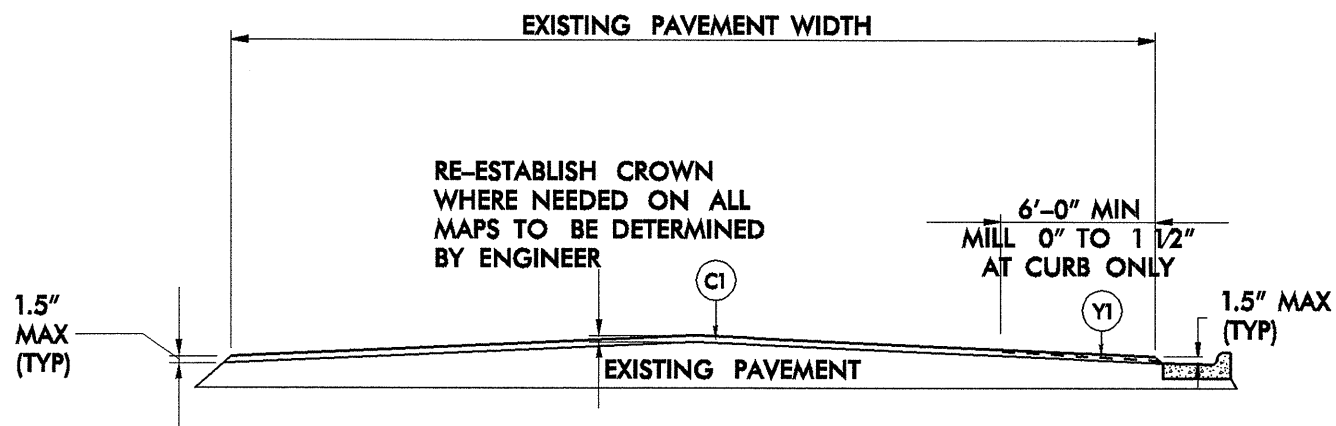
Map 13



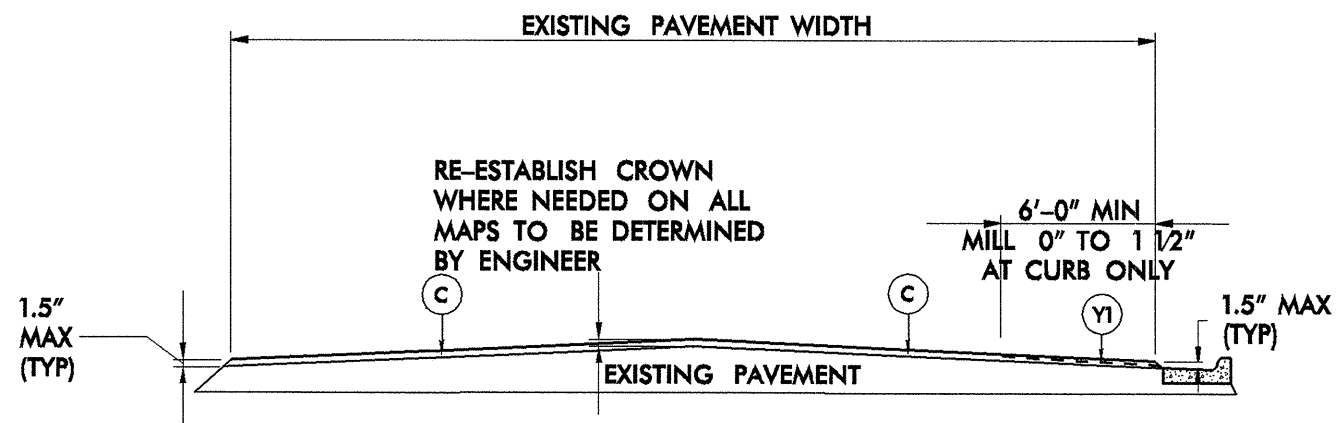
TYPICAL SECTION NO. 1
 MAP NO 9 SR 1725 GERMANTON RD (24 Ft Width)
 MAP NO 13 SR 2211 BAUX MOUNTAIN RD (20 Ft Width)
 MAP NO 14 SR 2601 MACY GROVE RD (22 Ft Width)



TYPICAL SECTION NO. 4
 MAP NO 1 NC 66 WEST BODENHAMER ST (36 Ft Width)
 MAP NO 6 US 158 STRATFORD RD (60 Ft Width)
 MAP NO 7 SR 1725 CHERRY ST (48 Ft Width)
 MAP NO 11 SR 1528 NORTH POINT BLVD (60 Ft Width)

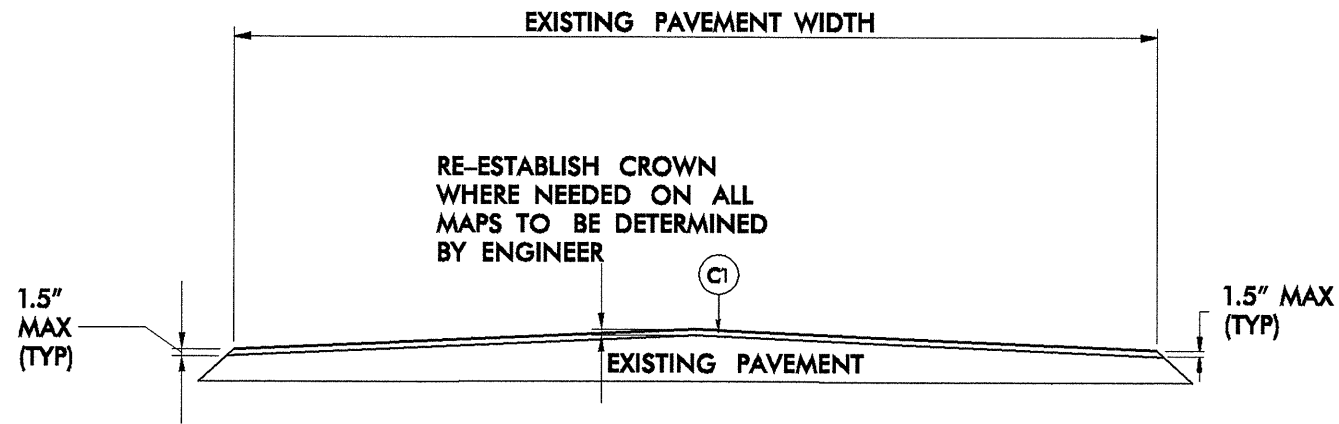


TYPICAL SECTION NO. 2
 MAP NO 8 SR 1725 CHERRY ST (24 Ft to 48 Ft Width)

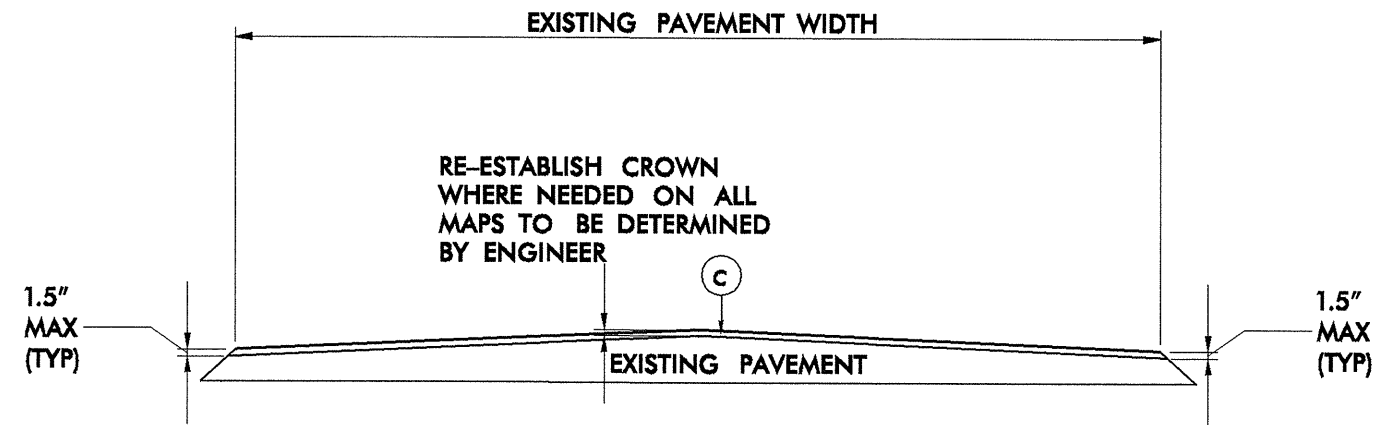


TYPICAL SECTION NO. 3
 MAP NO 12 SR 1001 COUNTRY CLUB RD (26 Ft to 46 Ft Width)

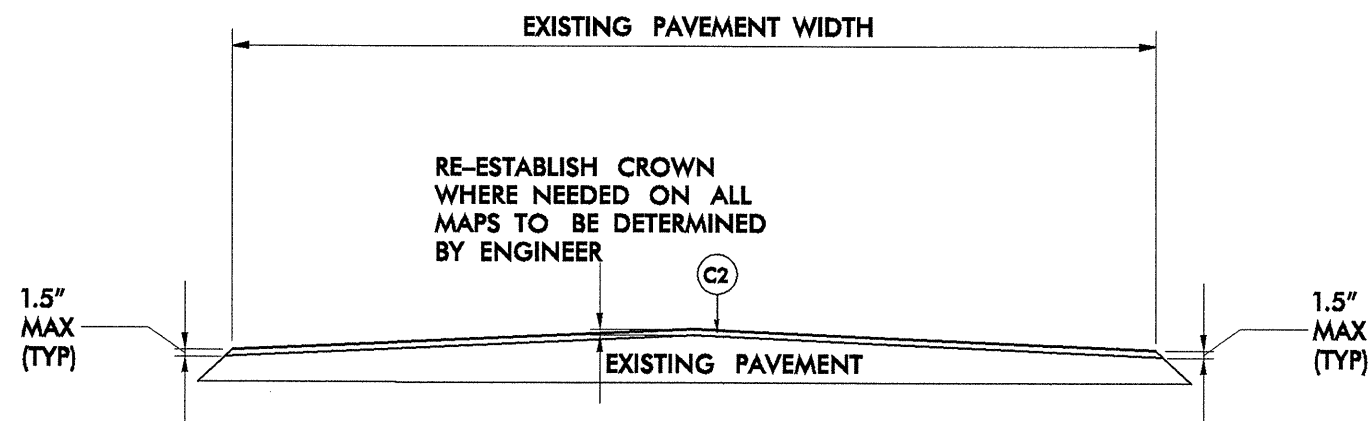
PAVEMENT SCHEDULE	
C	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ YD
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE LEVELING COURSE, TYPE S9.5B
Y	MILL ASPHALT PAVEMENT, 1.5" DEPTH
Y1	MILL ASPHALT PAVEMENT, 0" TO 1.5" DEPTH



TYPICAL SECTION NO. 5
 MAP NO 2 NC 66 (26 Ft Width)
 MAP NO 3 US 311 (24 Ft Width)
 MAP NO 4 US 311 (24 Ft Width)
 MAP NO 5 US 311 (24 Ft Width)

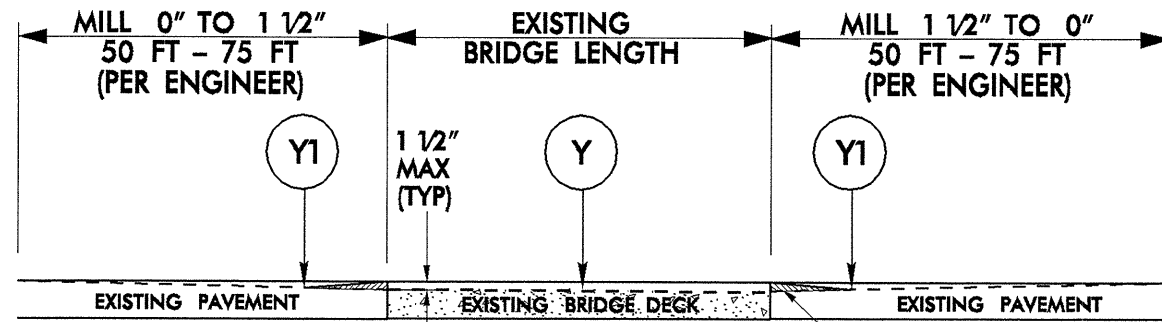


TYPICAL SECTION NO. 7
 MAP NO 10 SR 1433 OLIVET CHURCH RD
 (22 Ft Width)



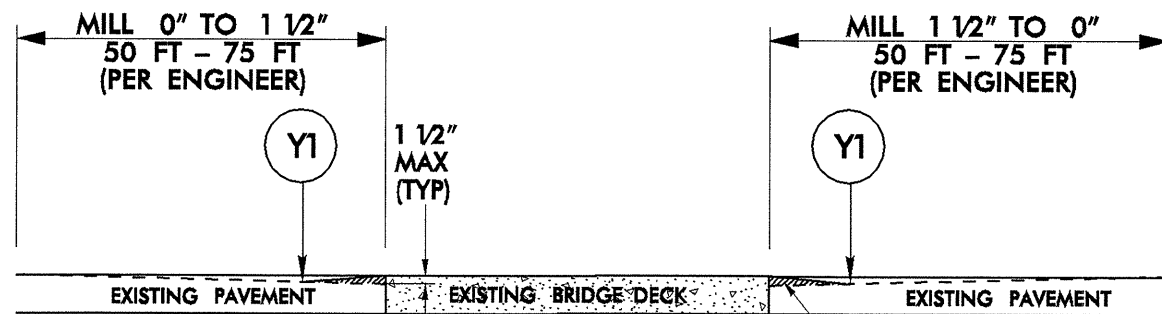
TYPICAL SECTION NO. 6
 MAP NO 15 SR 2042 OLD GREENSBORO RD
 (22 Ft Width)

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, 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. VAR. DEPTH ASPHALT CONCRETE SURFACE LEVELING COURSE, TYPE S9.5B
Y	MILL ASPHALT PAVEMENT, 1.5" DEPTH
Y1	MILL ASPHALT PAVEMENT, 0" TO 1.5" DEPTH



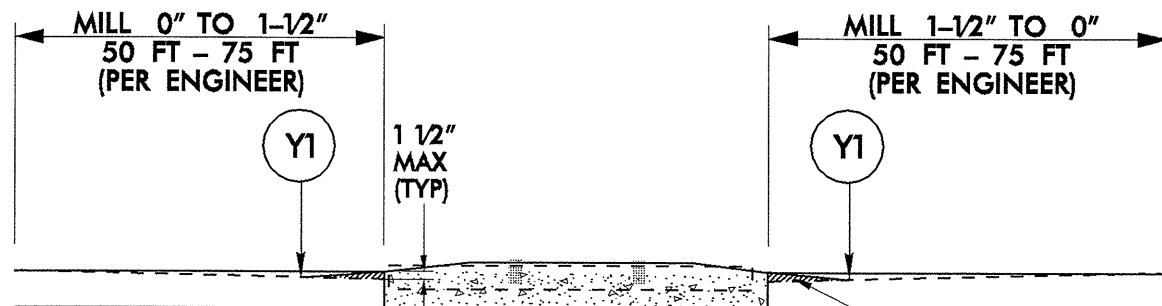
DETAIL 1
MILL BRIDGE DECK AND APPROACHES
 (SEE BRIDGE DATA SHEET FOR PAVING INSTRUCTIONS)

TEMPORARY ASPHALT WEDGING
 (TYPICAL BOTH SIDES OF BRIDGE)
 IF APPROACHES ARE MILLED PRIOR
 TO MILLING BRIDGE DECK



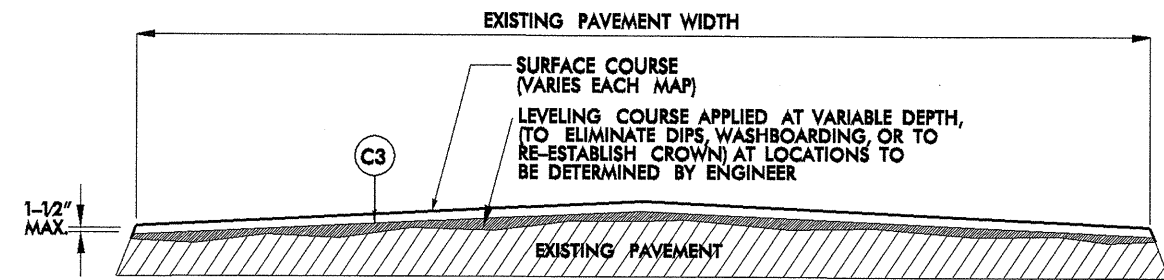
DETAIL 2
MILLING BRIDGE APPROACHES
 (SEE BRIDGE DATA SHEET FOR PAVING INSTRUCTIONS)

TEMPORARY ASPHALT WEDGING
 (TYPICAL BOTH SIDES OF BRIDGE)

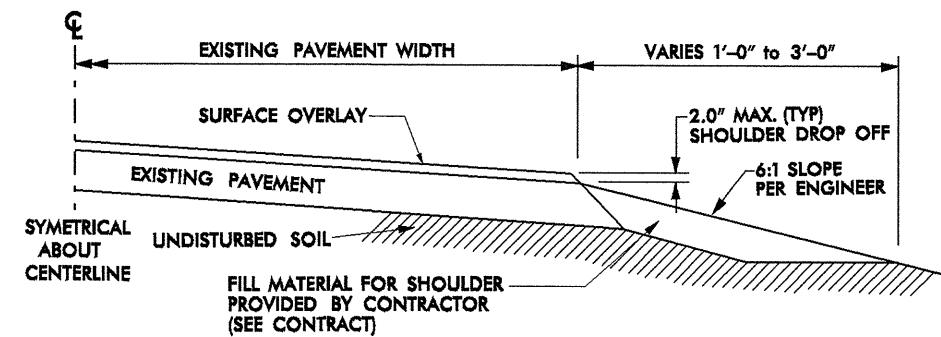


DETAIL NO. 3
MILLING RAILROAD CROSSING APPROACHES

TEMPORARY ASPHALT WEDGING
 (TYPICAL BOTH SIDES OF CROSSING)
 SEE 'CONSTRUCTION NOTES'

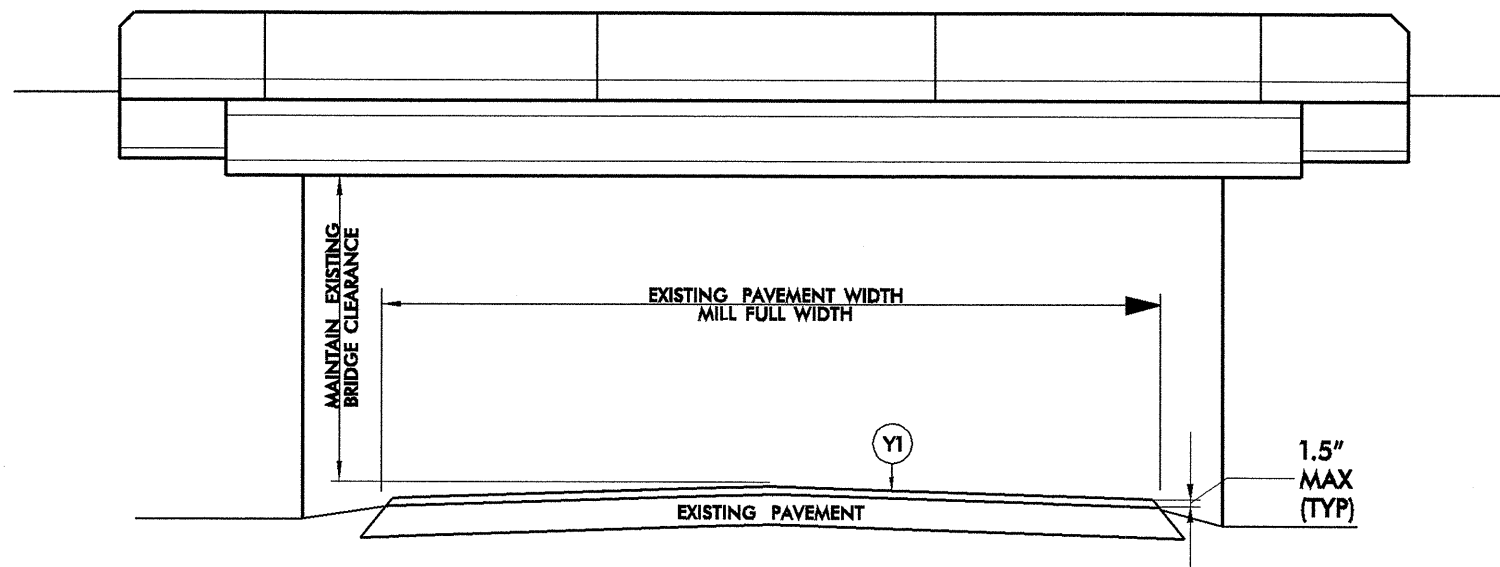


LEVELING DETAIL

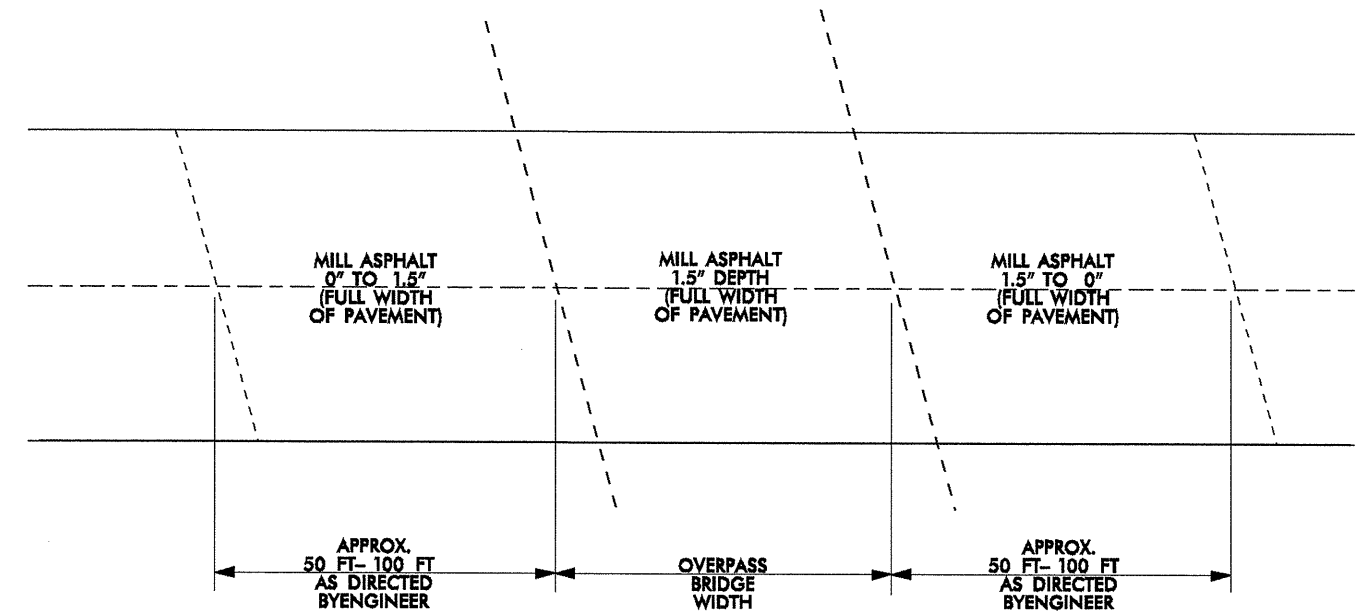


SHOULDER DROP OFF REPAIR

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, 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. VAR. DEPTH ASPHALT CONCRETE SURFACE LEVELING COURSE, TYPE S9.5B
Y	MILL ASPHALT PAVEMENT, 1.5" DEPTH
Y1	MILL ASPHALT PAVEMENT, 0" TO 1.5" DEPTH



**ELEVATION FOR
 BRIDGE NO. 298
 (MAP NO. 8 ONLY)**



**PLAN VIEW FOR
 MILLING ASPHALT PAVEMENT
 UNDER OVERPASS**

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, 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. VAR. DEPTH ASPHALT CONCRETE SURFACE LEVELING COURSE, TYPE S9.5B
Y	MILL ASPHALT PAVEMENT, 1.5" DEPTH
Y1	MILL ASPHALT PAVEMENT, 0" TO 1.5" DEPTH

Forsyth County 2008 Resurfacing Bridge Listing

Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Rdwy Width (Ft)	Horizontal Clearance (Ft)	Vertical Clearance	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
8	SR 1725	CHERRY ST	298	SOUTHERN RAILROAD	NA		35.5	14 ft 10 in	91	N/A	Mill 1-1/2" under structure
12	SR 1001	COUNTRY CLUB RD	97	MUDDY CREEK	8" RC SLAB	52			225	N/A	Mill Approach
14	SR 2601	MACY GROVE RD	370	I-40 BUS, US 421	6 3/4" RC SLAB	26			183	SV 41 TTST	Mill Approaches

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 - LEVELING (AS DIRECTED BY ENGINEER)
- PHASE 3 - SURFACE OVERLAY
- PHASE 4 - SHOULDER DROP-OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
- PHASE 5 - 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).

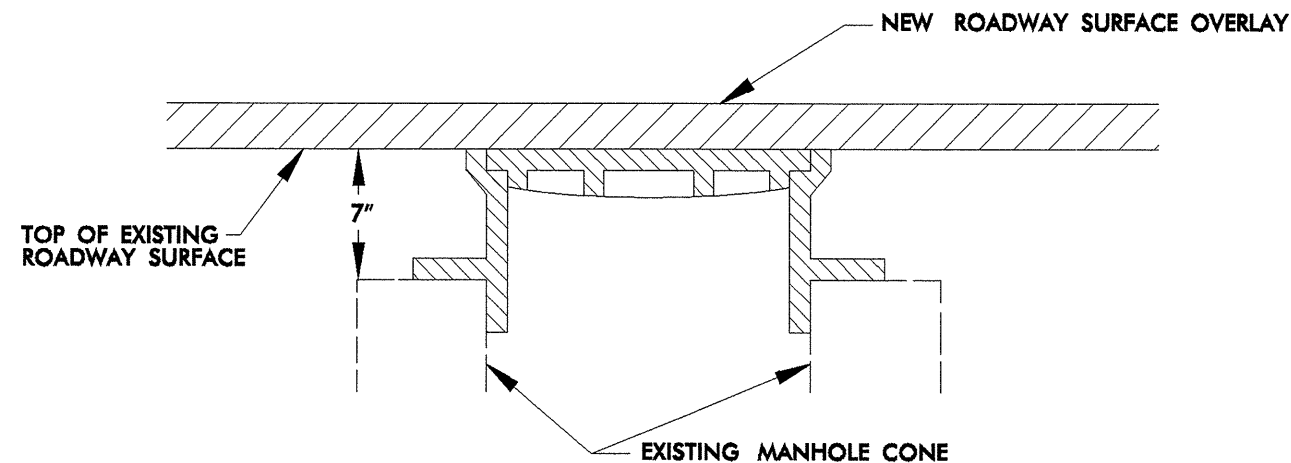
5. SOME MAPS MAY REQUIRE EXTRA ASPHALT SURFACE (LEVELING) TO BE PLACED TO ELIMINATE UNEVEN PAVEMENT, WASHBOARDING OR TO RE-ESTABLISH THE CROWN. THE QUANTITY AND LOCATION OF THIS ITEM SHALL BE AS DIRECTED BY THE ENGINEER.

6. 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.

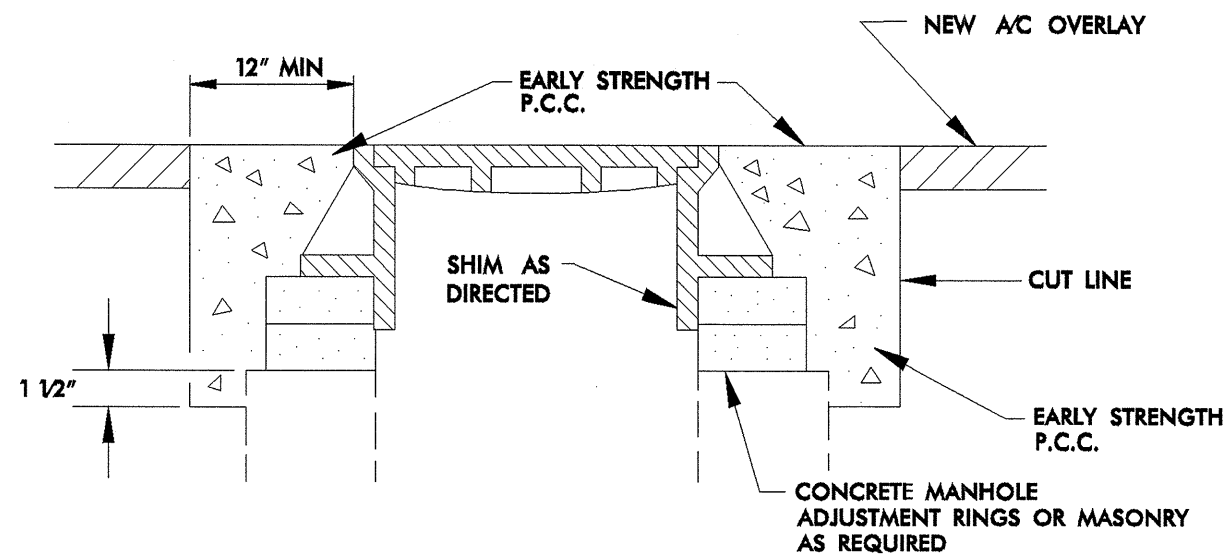
7. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610-11.

8. 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



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

PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10341.6, 9CR.20341.6	12	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	SHOULDER DROP OFF REPAIR SMI	INCIDENTAL STONE BASE TONS	1 1/2" MILLING SY	0" TO 1 1/2" MILLING SY	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	MANHOLES EA	METER OR VALVE BOX EA		
																				NO	MI
9CR.10341.6	Forsyth	1	NC 66 (WEST BODENHAMER)	PVMT JT NEAR RR CROSSING TO NORTH MAIN ST SR 4315	4	0.75	36				5308		7	1,481	0.5	89	15	5	9		
		2	NC 66	52 NB RAMP TO WALL ST	5	1.33	26	0.53	53				7	1,952	0.5	117	15				
		3	US 311	NC 66 TO HARLEY DR	5	0.3	24	0.12	12				7	392	0.5	24	15				
		4	US 311 (HARLEY DR)	HARLEY DR TO MAIN ST SR 2004	5	0.21	24	0.08	8				7	275	0.5	16	15				
		5	US 311	MAIN ST SR 2004 TO WALKERTOWN CITY LIMITS	5	0.73	24	0.29	29				7	955	0.5	57	15				
		6	STRATFORD RD NC 158	HANES MALL BLVD SR 3153 TO 0.1 MILE WEST OF KIMWELL DR	4	1.52	60					11532		7	4,994	0.5	300	15	31	5	
TOTAL FOR PROJ NO. 9CR.10341.6						4.84		1.02	102		16840		42	10,049	3	603	90	36	14		
9CR.20341.6	Forsyth	7	CHERRY ST SR 1725	CRAFT DR TO UNIVERSITY PKWY. SR 4000	4	0.76	48				6774		7	2,076	0.5	125	15	22	8		
		8	CHERRY ST SR 1725	INDIANA AVE SR 1763 TO CRAFT DR	2	0.59	24	0.24	24	800	1150		7	1,196	0.5	72	15	6			
		9	GERMANTON RD SR 1725	PVMT JT at RAMPS US 52 TO INDIANA AVE SR 1763	1	0.94	24	0.38	38		90		7	1,295	0.5	78	15	16	9		
		10	OLIVET CHURCH RD SR 1433	YADKINVILLE RD SR 1525 TO ROBINHOOD RD SR 1348	7	1.79	22	0.72	72			2159	7		130.0		15				
		11	NORTH POINT BLVD SR 1528	CHERRY ST SR 1725 TO INDIANA AVE SR 1763	4	0.23	60				1901		7	750	0.5	45	15	3	3		
		12	COUNTRY CLUB RD SR 1001	BRIDGE NO 97 TO PJ @ MEADOWLARK RD SR 1314	3	0.34	26	0.14	14		1104	640	7		39.0		15				
		13	BAUX MOUNTAIN RD SR 2211	OLD RURAL HALL RD SR 2207 TO NC 66	1	2.53	20	1.01	101				7	2,760	0.5	166	15				
		14	MACY GROVE RD SR 2601	PJ @ OLD GREENSBORO RD SR 2042 TO GUILFORD CO. LINE	1	1.07	22	0.43	54		434		7	1,283	0.5	77	15				
		15	OLD GREENSBORO RD SR 2042	EAST MOUNTAIN ST SR 1005 TO GUILFORD CO LINE	6	0.79	22	0.32	32				7	1,266	0.5	76	15				
		TOTAL FOR PROJ NO. 9CR.20341.6						9.04		3.24	335	800	11453	2799	63	10,626	173	639	135	47	20
		GRAND TOTAL						13.88		4.26	437	800	28293	2799	105	20,675	176	1,242	225	83	34

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

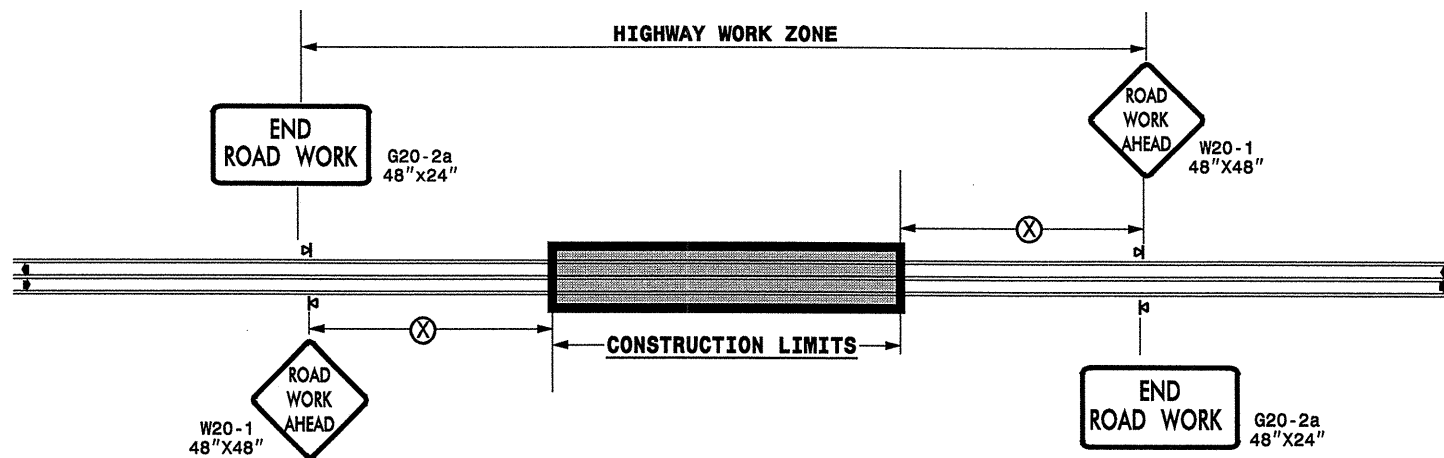
PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10341.6, 9CR.20341.6	13	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4510000000-E	4685000000-E	4686000000-E			4695000000-E	4697000000-E			4705000000-E	4710000000-E	4721000000-E		4725000000-E				4810000000-E		4905000000-N	
					POLICE HR	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M WHITE THERMO LF	8" X 120 M WHITE THERMO LF	8" X 120 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO RXR 120 M EA	THERMO MSG ONLY 120 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	SNOW PLOWABLE MARKERS EA		
9CR.10341.6	Forsyth	1	NC 66 (WEST BODENHAMER)	PVMT JT NEAR RR CROSSING TO NORTH MAIN ST SR 4315			16,140	680		230		50	330	2		25	1	1	8				50		
		2	NC 66	52 NB RAMP TO WALL ST		14,045	17,045	100				415		12		4		1					88		
		3	US 311	NC 66 TO HARLEY DR		3,168	3,168	30	150					24										20	
		4	US 311 (HARLEY DR)	HARLEY DR TO MAIN ST SR 2004		2,218	2,218	50						20											
		5	US 311	MAIN ST SR2004 TO WALKERTOWN CITY LIMITS		7,709	7,709	100																	
		6	STRATFORD RD NC 158	HANES MALL BLVD SR 3153 TO 0.1 MILE WEST OF KIMWELL DR		20		32,610	46,541					196			59	6	27	5					
TOTAL FOR PROJ NO. 9CR.10341.6					20	27,139	78,889	47,501	150	230	415	50	582	2		88	7	29	13				158		
							126,390			645				2			137								
9CR.20341.6	Forsyth	7	CHERRY ST SR 1725	CRAFT DR TO UNIVERSITY PKWY. SR 4000	20			585		560			296		4	12	4	11	10	2					
		8	CHERRY ST SR 1725	INDIANA AVE SR 1763 TO CRAFT DR		6,230	7,370	584					224			13	2	2							
		9	GERMANTON RD SR 1725	US 52 TO INDIANA AVE SR 1763		9,926	10,769	385					24			4				2					
		10	OLIVET CHURCH RD SR 1433	YADKINVILLE RD SR 1525 TO ROBINHOOD RD SR 1348		18,902	18,902	175																	
		11	NORTH POINT BLVD SR 1528	CHERRY ST SR 1725 TO INDIANA AVE SR 1763			4,858	950				200	56	8		10	2	2	2						
		12	COUNTRY CLUB RD SR 1001	BRIDGE NO 97 TO PJ @ MEADOWLARK RD SR 1314		3,590	3,311	446					176		12										
		13	BAUX MOUNTAIN RD SR 2211	OLD RURAL HALL RD SR 2207 TO NC 66		27,223	27,223	195	510					30											
		14	MACY GROVE RD SR 2601	PJ @ OLD GREENSBORO RD SR 2042 TO GUILFORD CO. LINE		11,299	11,299	65						24								740	740		
		15	OLD GREENSBORO RD SR 2042	EAST MOUNTAIN ST SR 1005 TO GUILFORD CO LINE		8,500	8,500	50																	
		TOTAL FOR PROJ NO. 9CR.20341.6					20	85,672	92,232	3,435	510	560	176	200	666	8	4	39	8	15	12	4	740	740	
									95,667			736				12		78				1,480			
		GRAND TOTAL					40	112,811	171,122	50,936	660	790	591	250	1,248	10	4	127	15	44	25	4	740	740	158
									222,058			1,381				14		215				1,480			

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

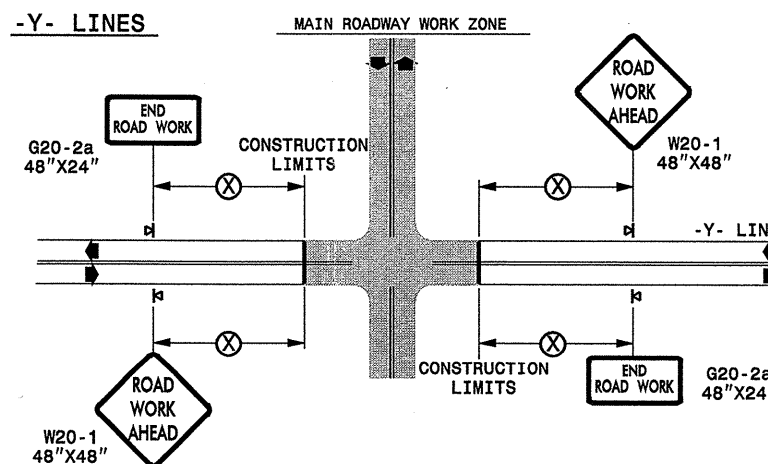
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

◀ PORTABLE SIGN

➡ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS	SCALE: NONE		REVISIONS
SEAL 	DATE: _____		DWG. BY: _____		10-98 10/01
	DESIGN BY: _____	REVIEWED BY: _____	01/01 11/04		
	CADD FILE				

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