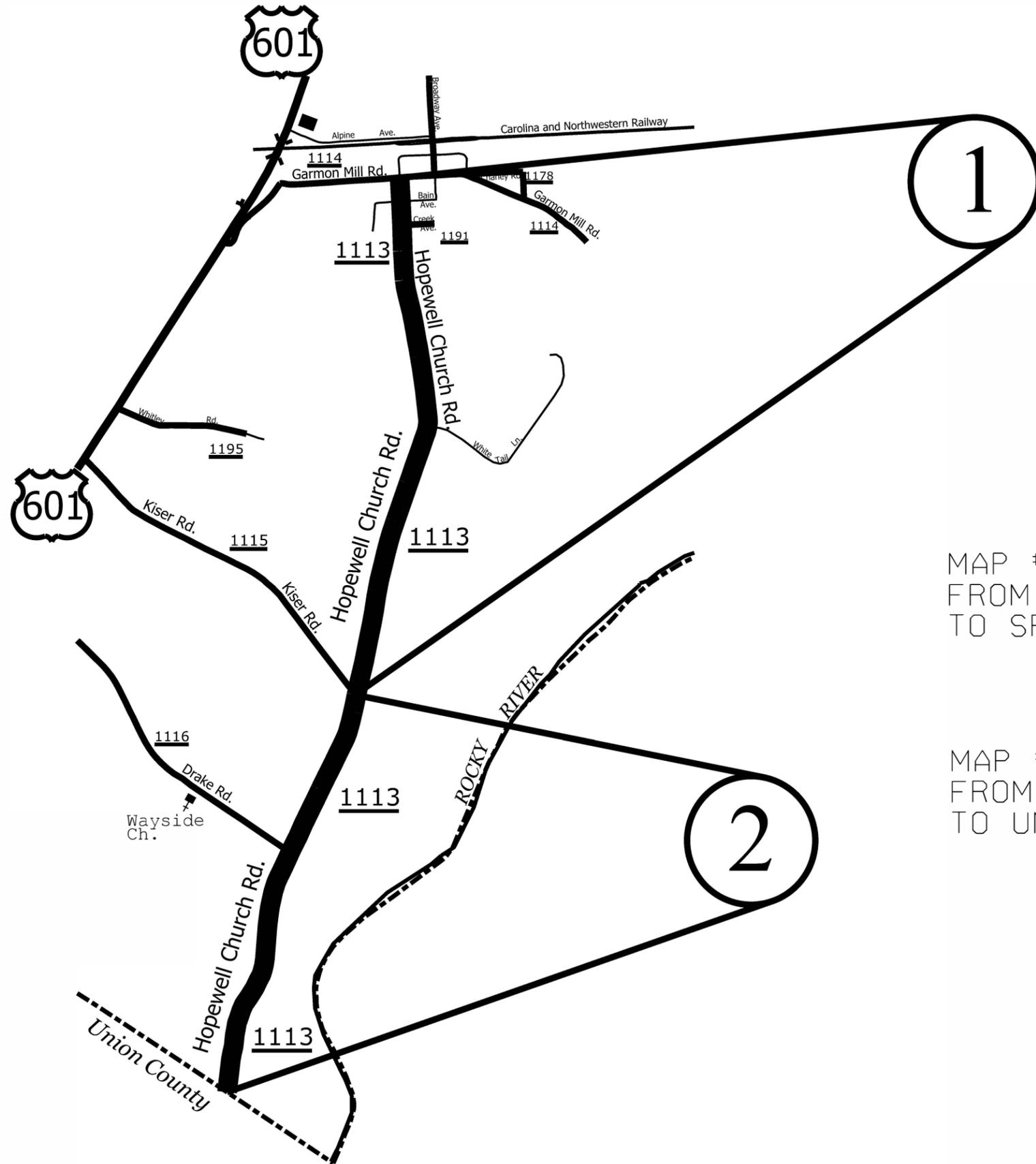


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.10.16.20132	1	8
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
CABARRUS COUNTY
 NORTH CAROLINA
PREPARED BY: DHE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1



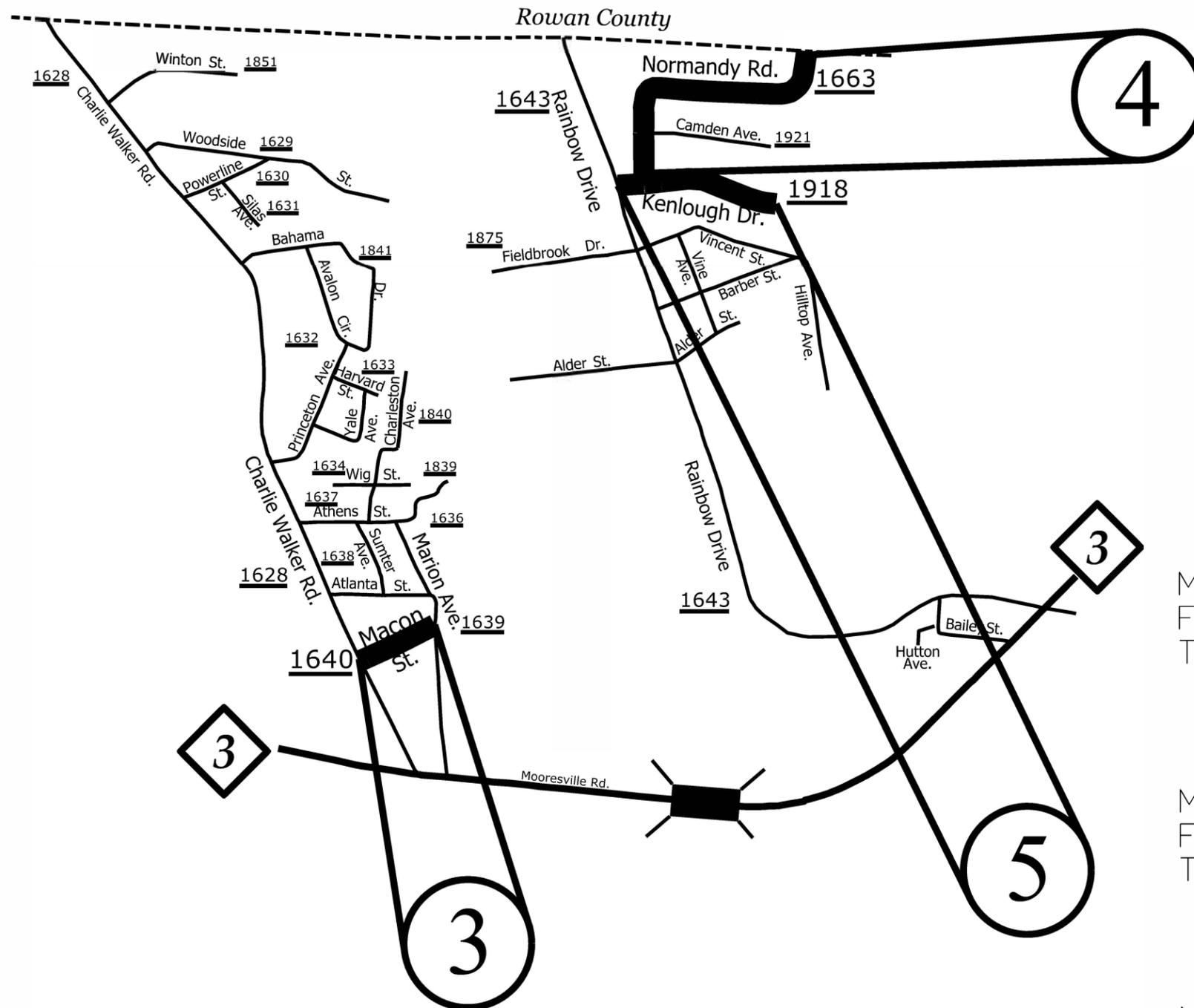
MAP #1 - SR 1113 - HOPEWELL CHURCH ROAD 1.55 MILES
 FROM SR 1114 (GARMON MILL ROAD) (MP 0.00)
 TO SR 1115 (KISER ROAD) (MP 1.55)

MAP #2 - SR 1113 - HOPEWELL CHURCH ROAD 1.28 MILES
 FROM SR 1115 (KISER ROAD) (MP 1.55)
 TO UNION COUNTY LINE (MP 2.83)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.10.16.20132	2	8
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
CABARRUS COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1



MAP #3 - SR 1640 - MACON STREET 0.14 MILES
 FROM SR 1628 (CHARLIE WALKER ROAD) (MP 0.00)
 TO SR 1639 (MARION AVENUE) (MP 0.14)

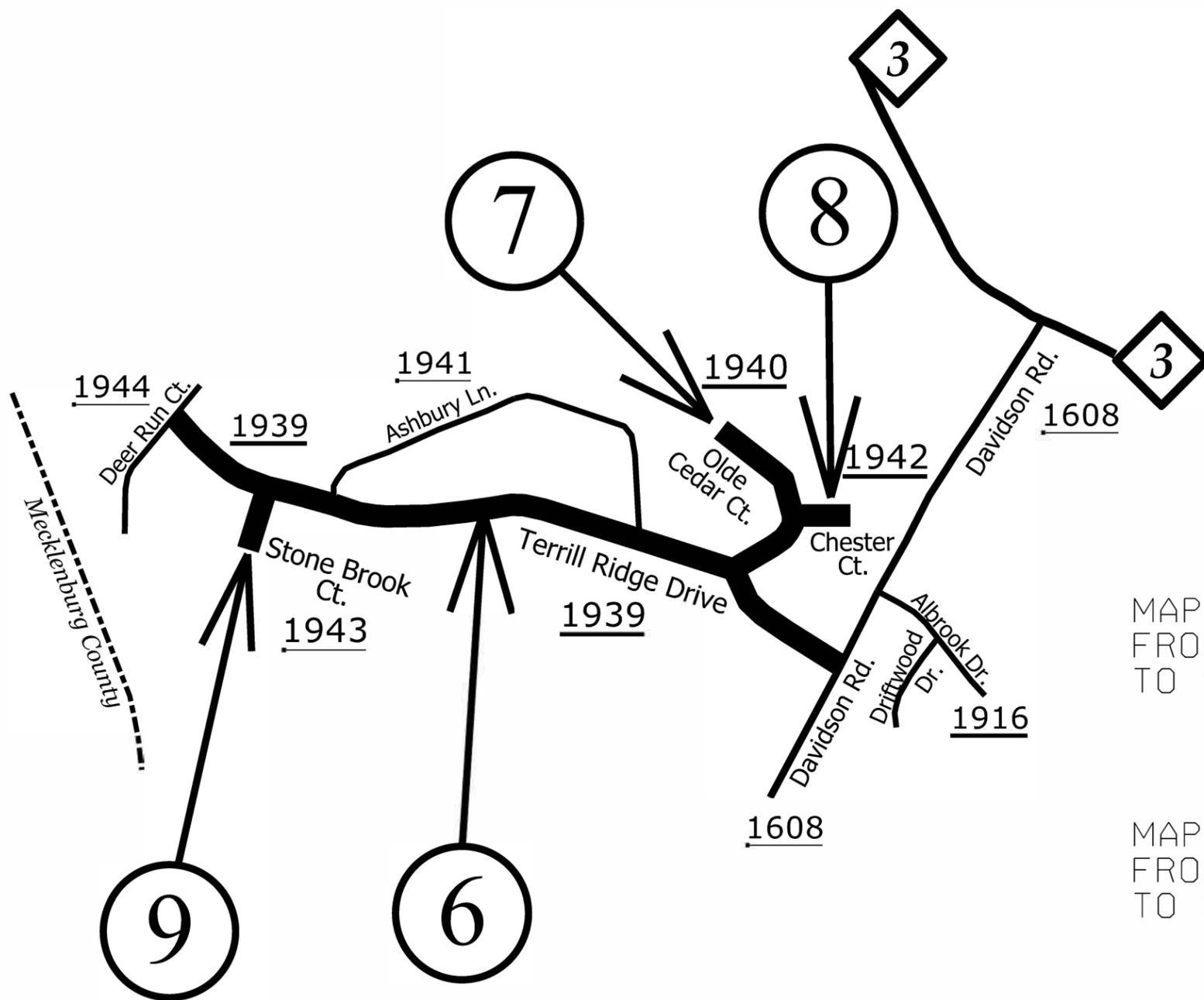
MAP #4 - SR 1663 - NORMANDY ROAD 0.47 MILES
 FROM ROWAN COUNTY LINE (MP 0.00)
 TO SR 1918 (KENLOUGH DRIVE) (MP 0.47)

MAP #5 - SR 1918 - KENLOUGH DRIVE 0.27 MILES
 FROM SR 1643 (RAINBOW DRIVE) (MP 0.00)
 TO DEAD END (MP 0.27)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.10.16.20132	3	8
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
CABARRUS COUNTY
 NORTH CAROLINA
PREPARED BY: DE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1



MAP #6 - SR 1939 - TERRILL RIDGE DRIVE 0.80 MILES
 FROM SR 1608 (DAVIDSON ROAD) (MP 0.00)
 TO SR 1944 (DEER RUN COURT) (MP 0.80)

MAP #7 - SR 1940 - OLDE CEDAR COURT 0.22 MILES
 FROM SR 1939 (TERRILL RIDGE DRIVE) (MP 0.00)
 TO CUL-DE-SAC (MP 0.22)

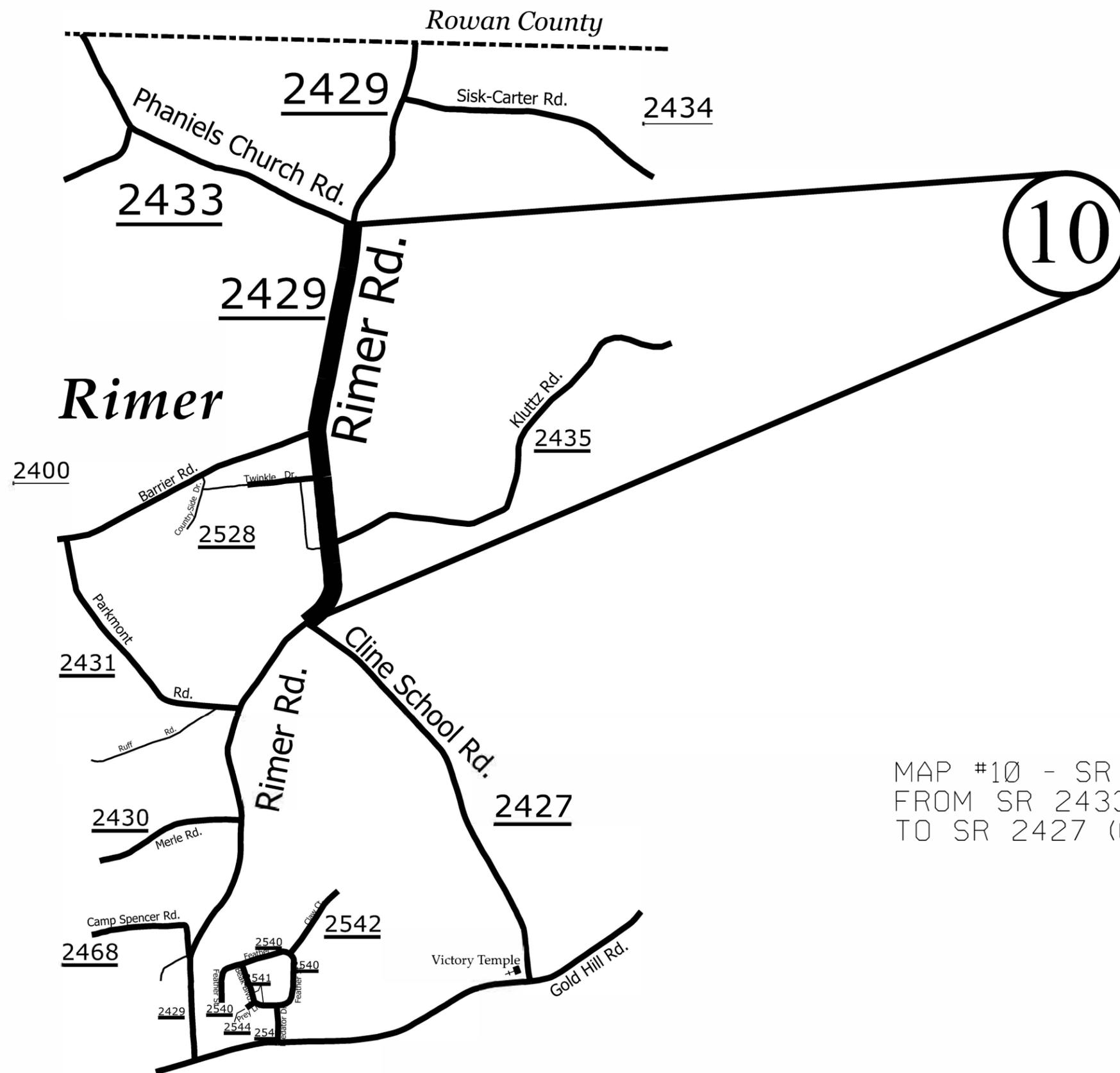
MAP #8 - SR 1942 - CHESTER COURT 0.07 MILES
 FROM SR 1940 (OLDE CEDAR COURT) (MP 0.00)
 TO CUL-DE-SAC (MP 0.07)

MAP #9 - SR 1943 - STONE BROOK COURT 0.07 MILES
 FROM SR 1939 (TERRILL RIDGE DRIVE) (MP 0.00)
 TO CUL-DE-SAC (MP 0.07)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.10.16.20132	4	8
F.A. PROJECT NO.			



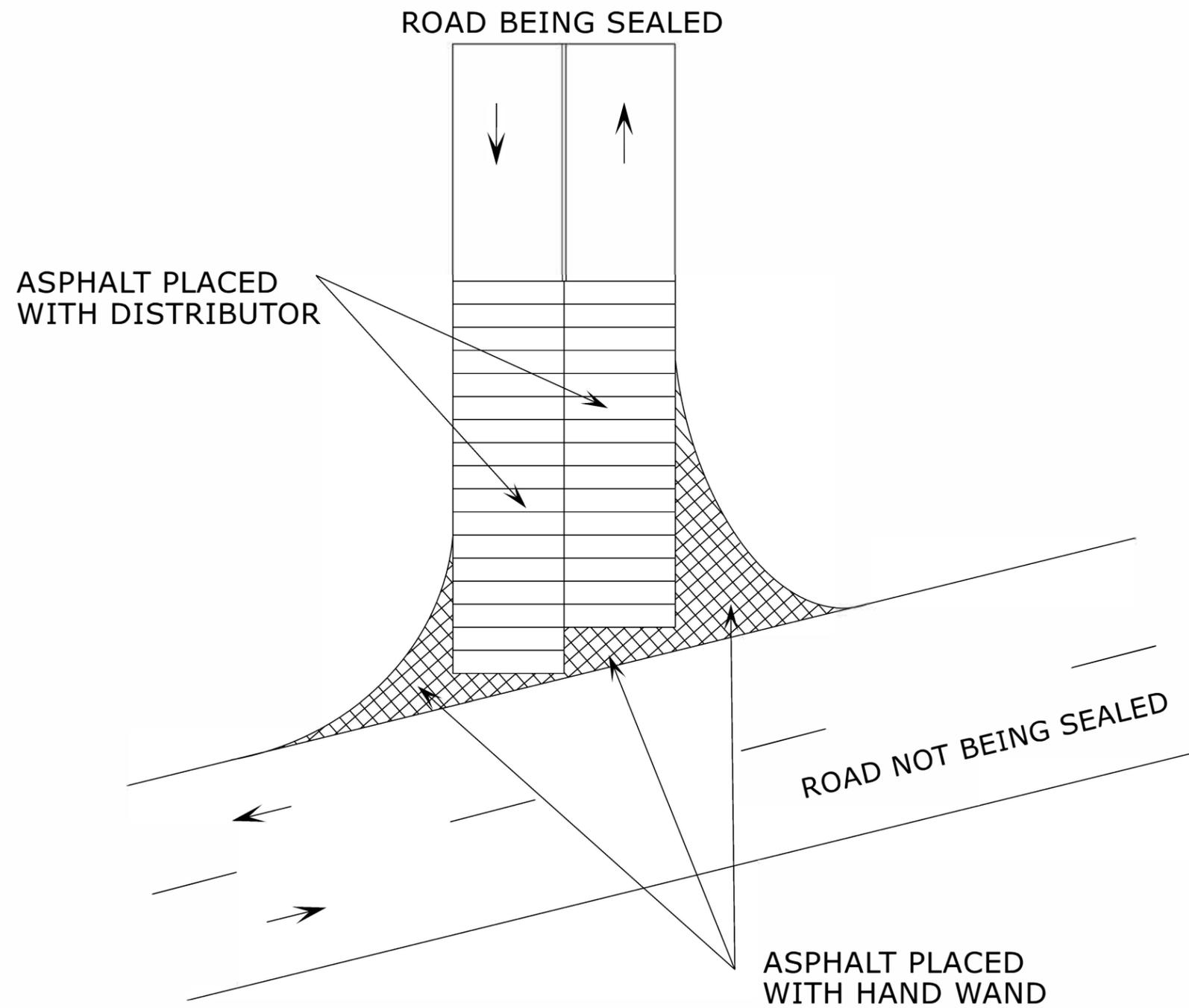
ENLARGED MUNICIPAL AND SUBURBAN AREAS
CABARRUS COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1



MAP #10 - SR 2429 - RIMER ROAD 1.28 MILES
 FROM SR 2433 (PHANIELS CHURCH ROAD) (MP 0.61)
 TO SR 2427 (CLINE SCHOOL ROAD) (MP 1.89)

INTERSECTION EMULSION PLACEMENT TWO LANE TWO WAY ROADWAY

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.10.16.20132	5	8
F.A. PROJECT NO.			



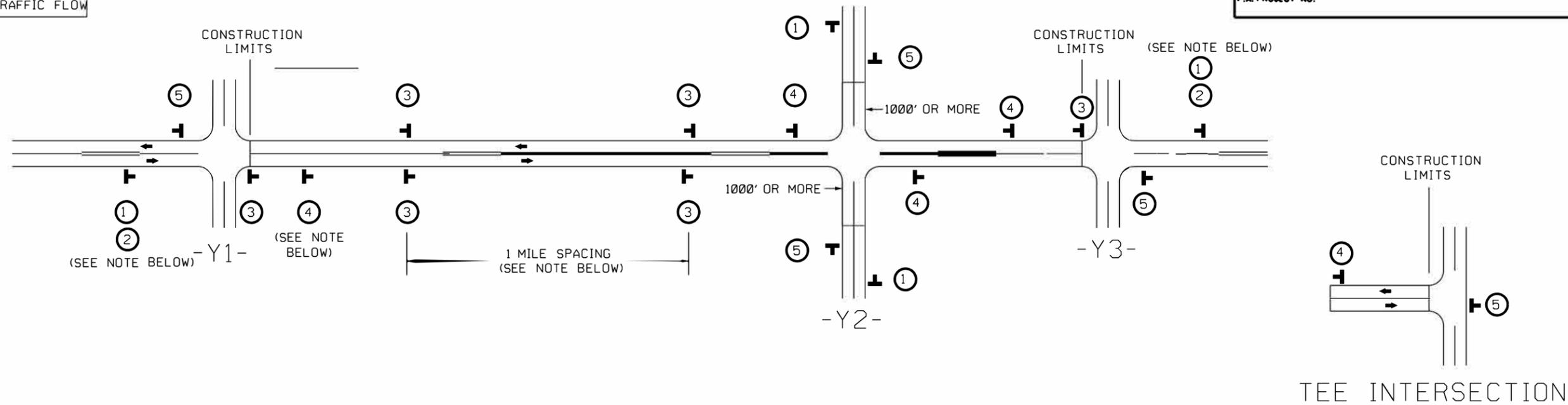
LEGEND

- DIRECTION OF TRAFFIC FLOW
- SKIP LINES
- == DOUBLE YELLOW LINES

SIGNING FOR ASPHALT SURFACE TREATMENT

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.10.16.20132	6	8
F.A. PROJECT NO.			

LEGEND	
	STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

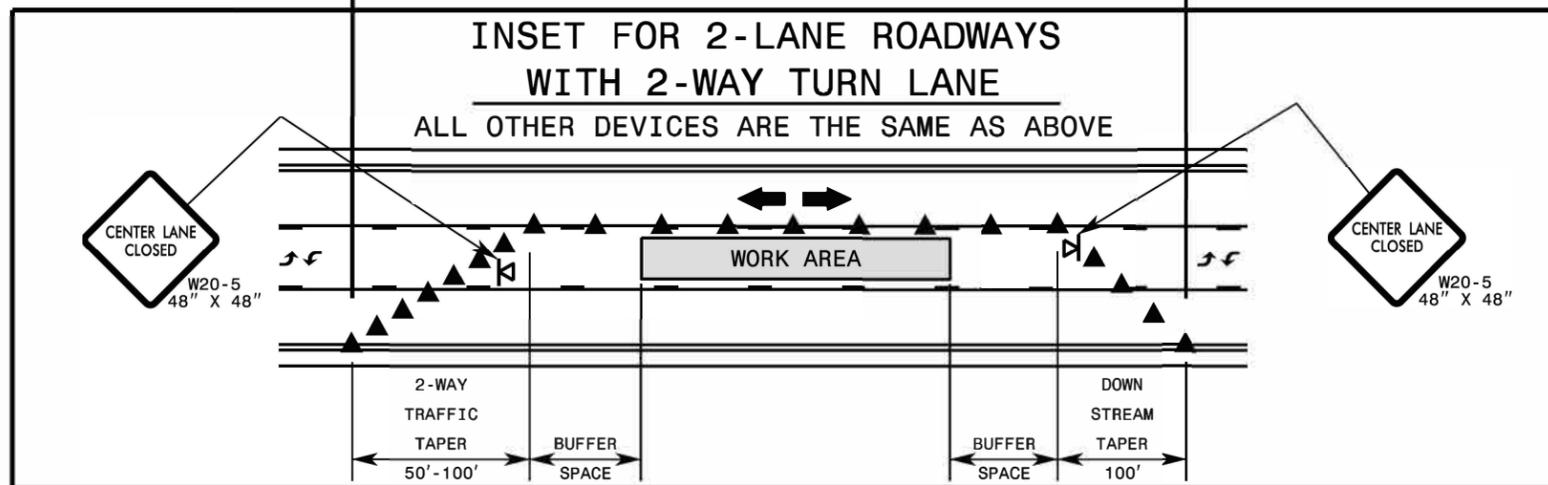
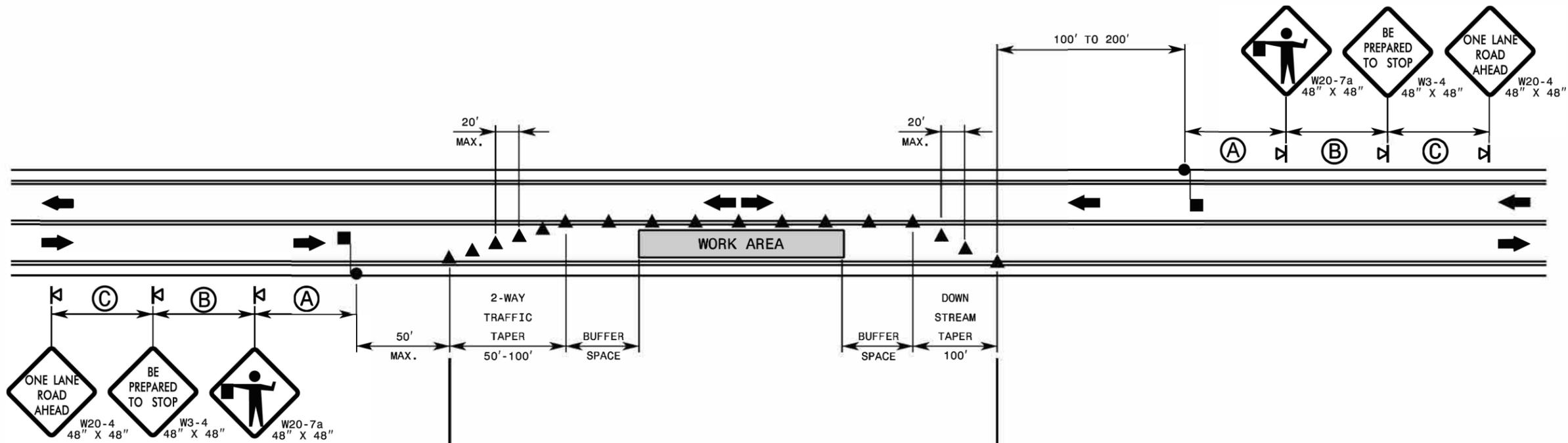
SIGNING NOTES AND PLACEMENT PER DIRECTION	<p>① PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>② *2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> LESS THAN 1000' OF RESURFACING ALONG -Y- LINE SUBDIVISION ROADS DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p> </div> <div style="text-align: center;"> <p>PLACED 250' IN ADVANCE OF FLAGGER.</p> </div> </div>
	<p>③ - ALTERNATE THE FOLLOWING TWO SIGNS:</p> <p> - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT"</p> <p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</p>	
	<p>④ - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</p> <p>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</p> <p>- FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH.</p> <p>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p> <p>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</p>	
	<p>⑤ PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>	
	<p>THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.</p>	

MAPS LESS THAN 2 MILES

FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.



ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING



GENERAL NOTES FOR FLAGGING OPERATIONS

- 1- REFER TO RSD. 1101.11, SHEETS 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.
- 2- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
- 3- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 4- PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 5- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO RSD. 1101.11, SHEET 2).
- 6- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- 7- DRUMS OR SKINNY DRUMS MAY BE USED IN LIEU OF CONES. REFER TO RSD. 1180.01 FOR SKINNY DRUM REQUIREMENTS.
- 8- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE, SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7a) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER. FOR SIGNALIZED INTERSECTIONS PLACE SIGNALS IN THE FLASH MODE AND USE LAW ENFORCEMENT.
- 9- REFER TO THE CURRENT MUTCD FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
- 10- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

- 11- IF VEHICLE QUEUES WILL REACH WITHIN 15' OF EITHER SIDE OF ACTIVE RAILROAD TRACKS, PROVIDE A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER TO PREVENT VEHICLES FROM STOPPING WITHIN THE GRADE CROSSING. PROVIDE OFFICER OR FLAGGER EVEN IF AUTOMATIC WARNING MEASURES ALREADY EXIST.

GENERAL NOTES FOR PILOT CAR OPERATIONS

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 2- IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA, AND AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.
- 3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
- 4- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
- 5- DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- 6- ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

LEGEND

- FLAGGER
- CONE
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.10.16.20132	8	8

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1803500000-E	1820000000-E	1836000000-E	1838000000-E	1838500000-N	2143000000-E	4413000000-E	4457000000-N		
												ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT, FOG SEAL	ASPHALT SURFACE TREATMENT, TRIPLE SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	BLOTTING SAND	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL		
												MI	FT	SY	SY	SY	GAL	WK	TON	SF	LS
2023CPT.10.16.20132	Cabarrus	1	SR 1113 - HOPEWELL CHURCH ROAD 40001113013	FROM SR 1114 (GARMON MILL ROAD) (MP 0.00) TO SR 1115 (KISER ROAD) (MP 1.55)		2		NO	NO	1.55	20				18,703	18,703	18,145	0.40	0.50	176.0	0.25
TOTAL FOR MAP NO. 1												1.55			18,703	18,703	18,145	0.40	0.50	176.0	0.25
2023CPT.10.16.20132	Cabarrus	2	SR 1113 - HOPEWELL CHURCH ROAD 400011130013	FROM SR 1115 (KISER ROAD) (MP 1.55) TO UNION COUNTY LINE (MP 2.83)		2		NO	NO	1.28	20				15,343	15,343	14,885	0.40	0.50	144.0	0.20
TOTAL FOR MAP NO. 2												1.28			15,343	15,343	14,885	0.40	0.50	144.0	0.20
2023CPT.10.16.20132	Cabarrus	3	SR 1640 - MACON STREET 40001640013	FROM SR 1628 (CHARLIE WALKER ROAD) (MP 0.00) TO SR 1639 (MARION AVENUE) (MP 0.14)		2		NO	NO	0.14	14	1,174	1,174		790	0.20	0.50	48.0	0.02		
TOTAL FOR MAP NO. 3												0.14		1,174	1,174		790	0.20	0.50	48.0	0.02
2023CPT.10.16.20132	Cabarrus	4	SR 1663 - NORMANDY ROAD 40001663013	FROM ROWAN COUNTY LINE (MP 0.00) TO SR 1918 (KENLOUGH DRIVE) (MP 0.47)		2		NO	NO	0.47	18				5,133	5,133	4,980	0.20	0.50	48.0	0.08
TOTAL FOR MAP NO. 4												0.47			5,133	5,133	4,980	0.20	0.50	48.0	0.08
2023CPT.10.16.20132	Cabarrus	5	SR 1918 - KENLOUGH DRIVE 40001918013	FROM SR 1643 (RAINBOW DRIVE) (MP 0.00) TO DEAD END (MP 0.27)		2		NO	NO	0.27	20	3,230	3,230		2,165	0.20	0.50	48.0	0.04		
TOTAL FOR MAP NO. 5												0.27		3,230	3,230		2,165	0.20	0.50	48.0	0.04
2023CPT.10.16.20132	Cabarrus	6	SR 1939 - TERRILL RIDGE DRIVE 40001939013	FROM SR 1608 (DAVIDSON ROAD) (MP 0.00) TO SR 1944 (DEER RUN COURT) (MP 0.80)		2		NO	NO	0.80	22				10,532	10,532	10,220	0.20	0.50	64.0	0.14
TOTAL FOR MAP NO. 6												0.80			10,532	10,532	10,220	0.20	0.50	64.0	0.14
2023CPT.10.16.20132	Cabarrus	7	SR 1940 - OLDE CEDAR COURT 40001940013	FROM SR 1939 (TERRILL RIDGE DRIVE) (MP 0.00) TO CUL-DE-SAC (MP 0.22)		2		NO	NO	0.22	20				2,634	2,634	2,555	0.20	0.50	64.0	0.04
TOTAL FOR MAP NO. 7												0.22			2,634	2,634	2,555	0.20	0.50	64.0	0.04
2023CPT.10.16.20132	Cabarrus	8	SR 1942 - CHESTER COURT 40001942013	FROM SR 1940 (OLDE CEDAR COURT) (MP 0.00) TO CUL-DE-SAC (MP 0.07)		2		NO	NO	0.07	20				839	839	815	0.15	0.50	48.0	0.01
TOTAL FOR MAP NO. 8												0.07			839	839	815	0.15	0.50	48.0	0.01
2023CPT.10.16.20132	Cabarrus	9	SR 1943 - STONE BROOK COURT 40001943013	FROM SR 1939 (TERRILL RIDGE DRIVE) (MP 0.00) TO CUL-DE-SAC (MP 0.07)		2		NO	NO	0.07	20				839	839	815	0.15	0.50	48.0	0.01
TOTAL FOR MAP NO. 9												0.07			839	839	815	0.15	0.50	48.0	0.01
2023CPT.10.16.20132	Cabarrus	10	SR 2429 - RIMER ROAD 40002429013	FROM SR 1927 (RIVERVIEW ROAD) (MP 0.48) TO SR 1935 (PLANK ROAD) (MP 4.39)		2		NO	NO	1.28	19	14,554	14,554		9,755	0.40	0.50	82.0	0.21		
TOTAL FOR MAP NO. 10												1.28		14,554	14,554		9,755	0.40	0.50	82.0	0.21
TOTAL FOR PROJ NO. 2023CPT.10.16.20132												6.15		18,958	72,981	54,023	65,125	2.50	5.00	770.0	1.00
GRAND TOTAL												6.15		18,958	72,981	54,023	65,125	2.50	5.00	770.0	1.00