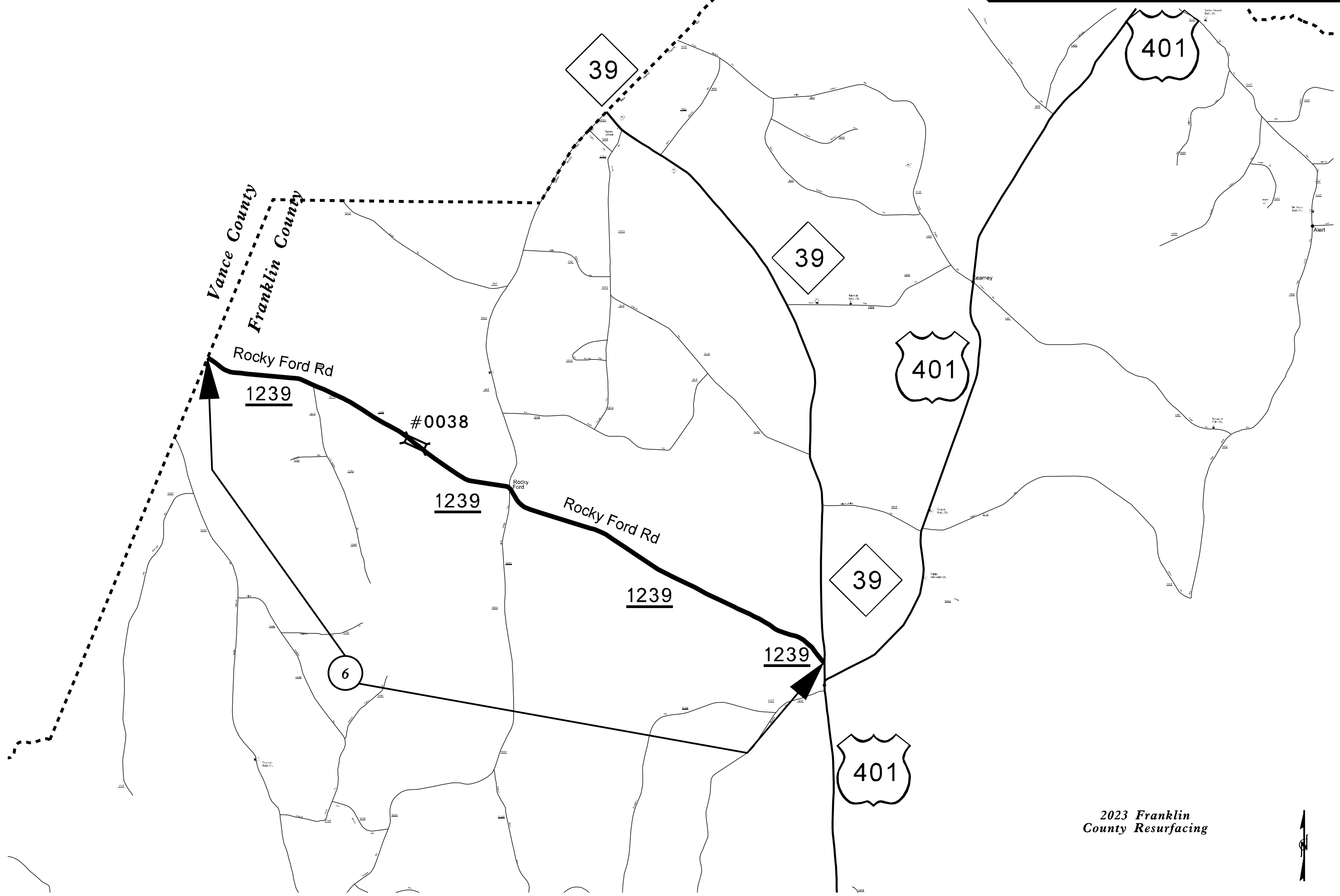
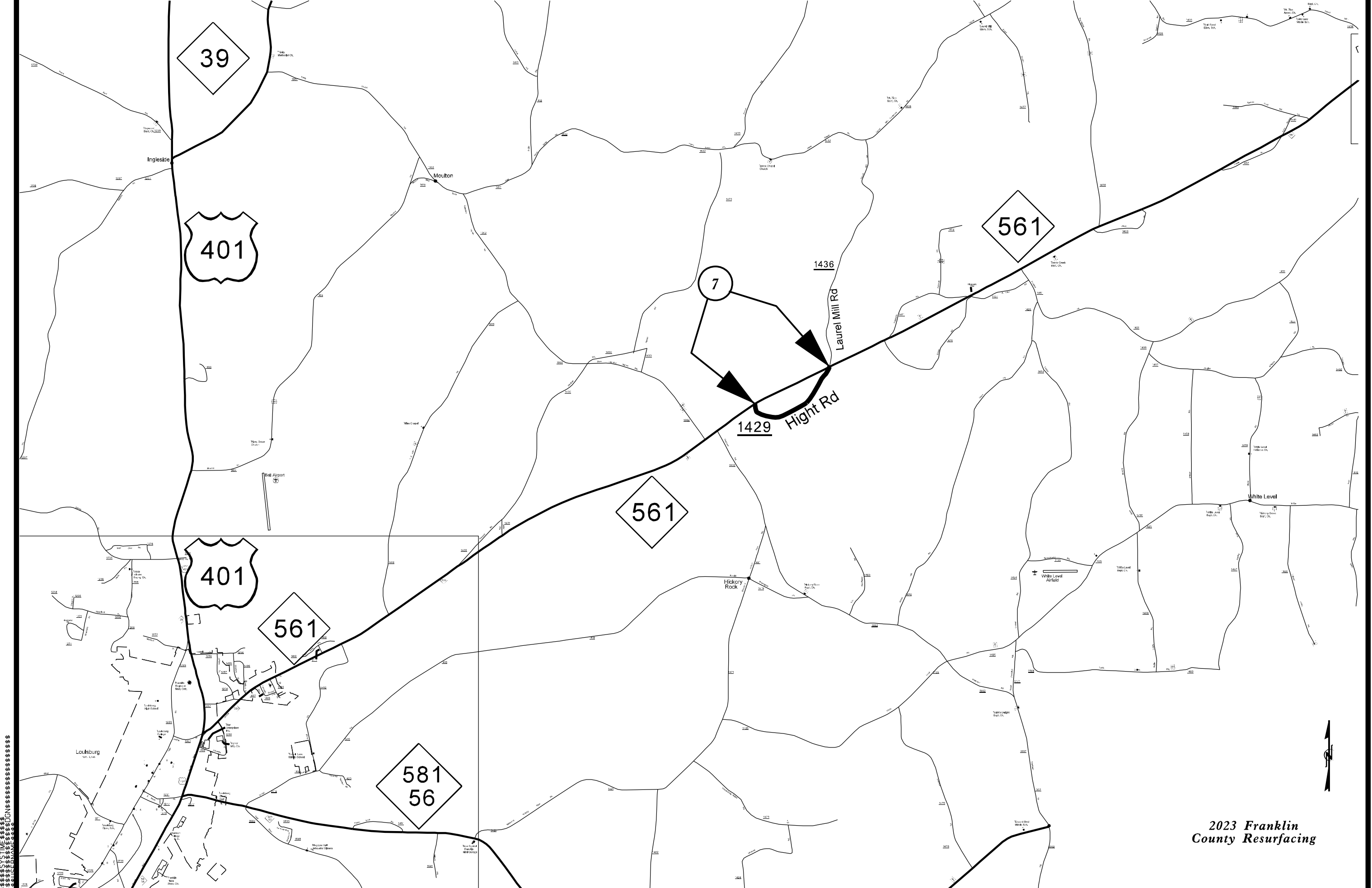


5/14/23

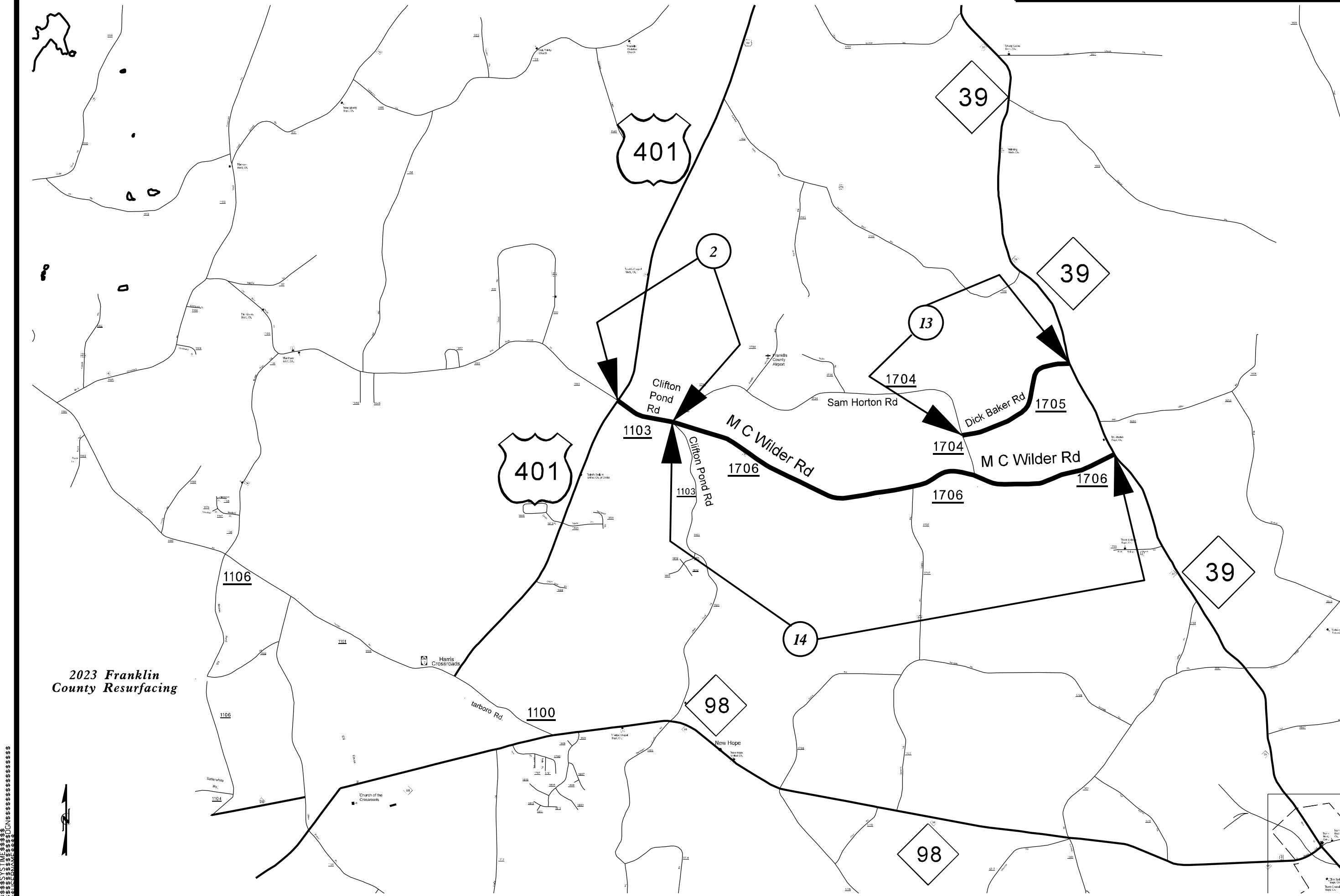
SYSTEMS DESIGN



2023 Franklin County Resurfacing



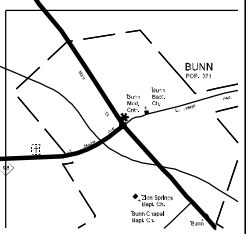
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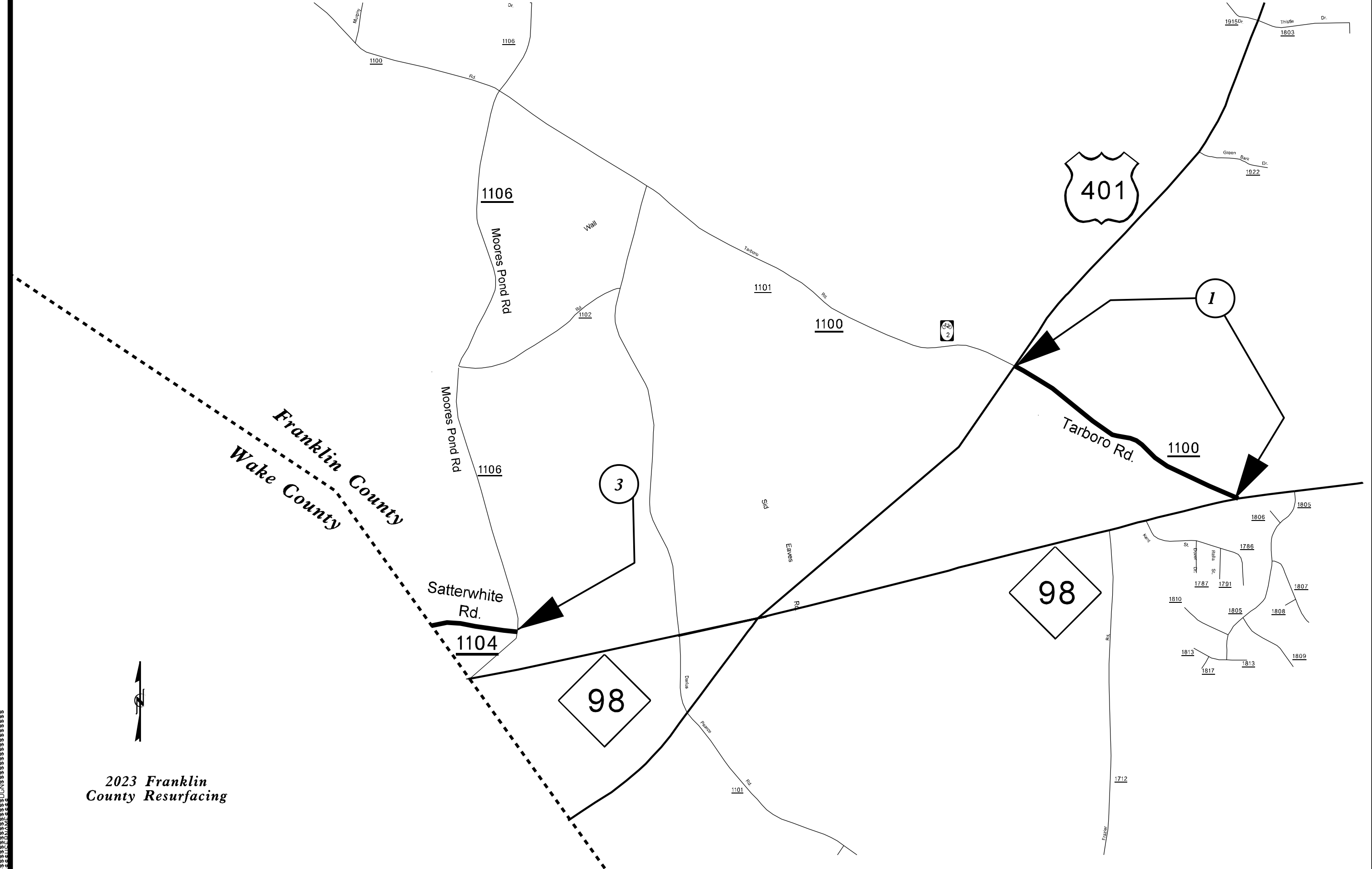


2023 Franklin
County Resurfacing



5/14/23

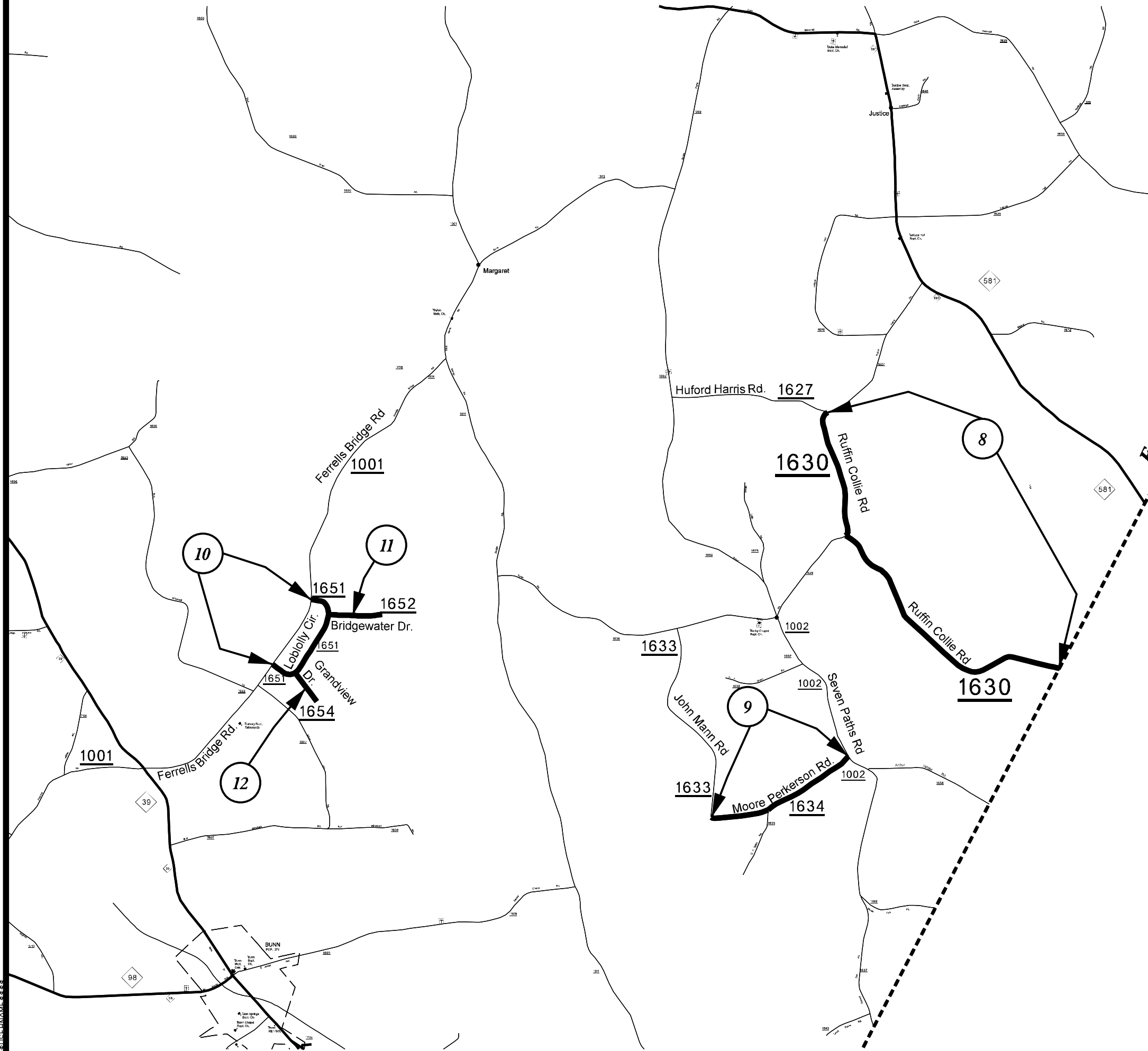




**2023 Franklin
County Resurfacing**

Meseret Sambeta

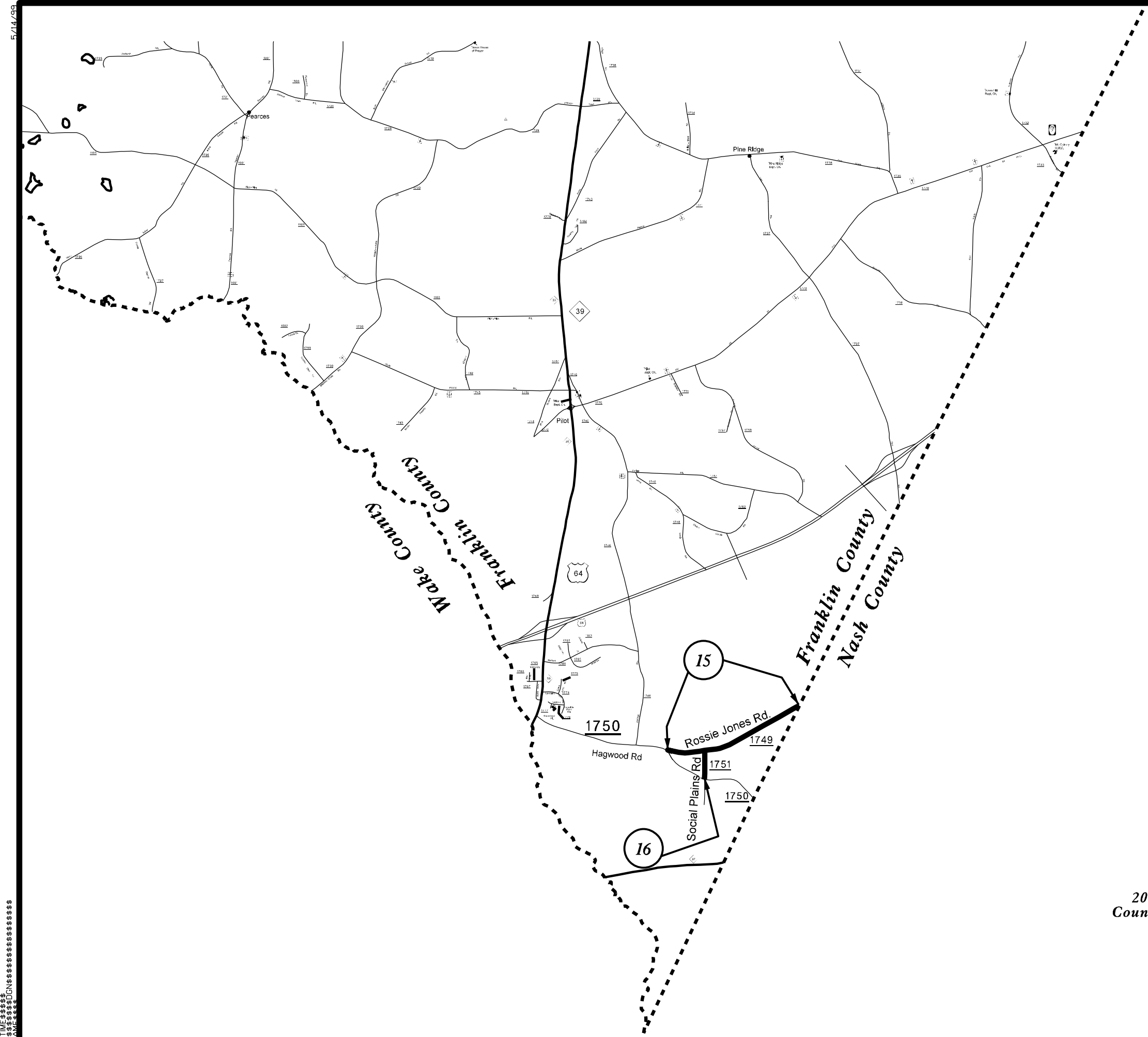
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Franklin County
Nash County

2023 Franklin
County Resurfacing





2023 Franklin County Resurfacing



5/14/23
SYSTEMS
DESIGN
SERVICES

PAVEMENT SCHEDULE

S

SHOULDER GRADING
ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)

PROJECT REFERENCE NO.

SHEET NO.

2022CPT.05.15.20351.1

8

C1

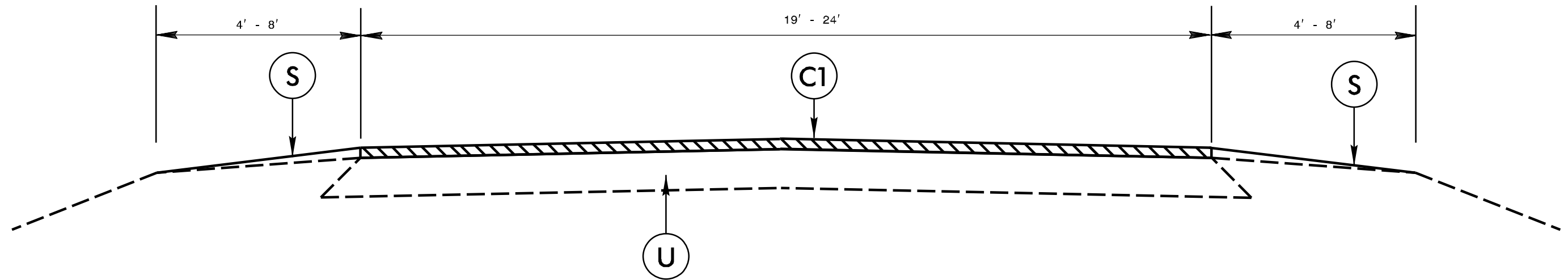
1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B,
AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.

U

EXISTING PAVEMENT

C2

1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B,
AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.



TYPICAL SECTION NO. 1

PAVEMENT SCHEDULE

S

SHOULDER GRADING
ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)

PROJECT REFERENCE NO.

SHEET NO.

2022CPT.05.15.20351.1

9

C1

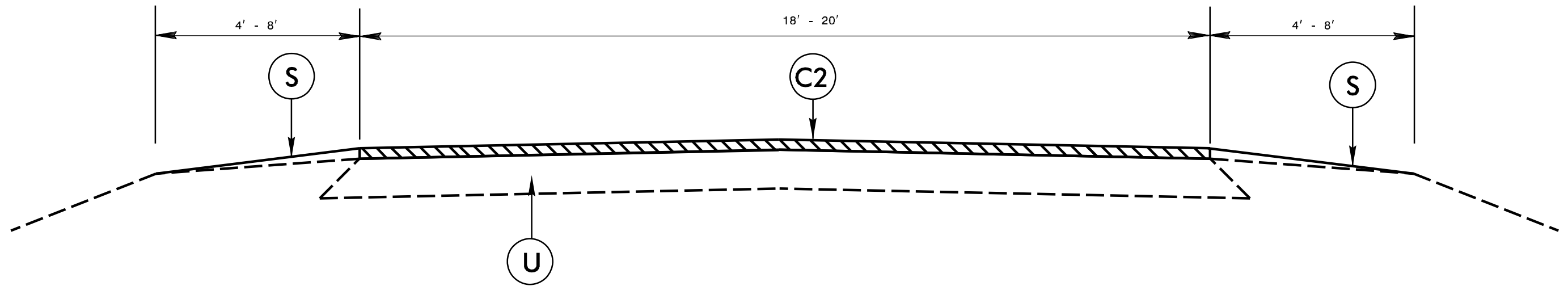
1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B,
AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.

U

EXISTING PAVEMENT

C2

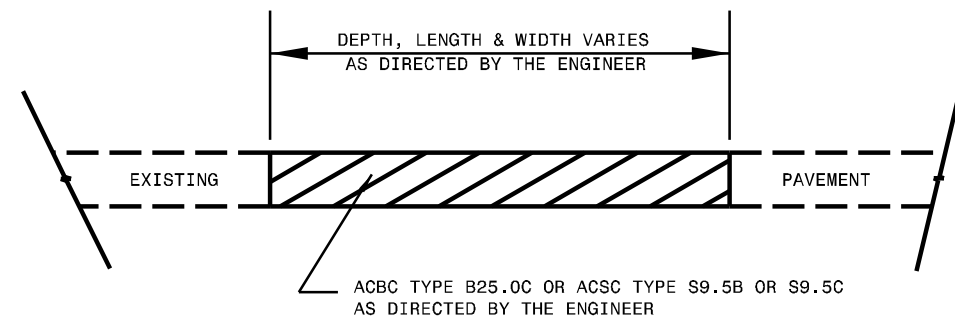
1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B,
AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.



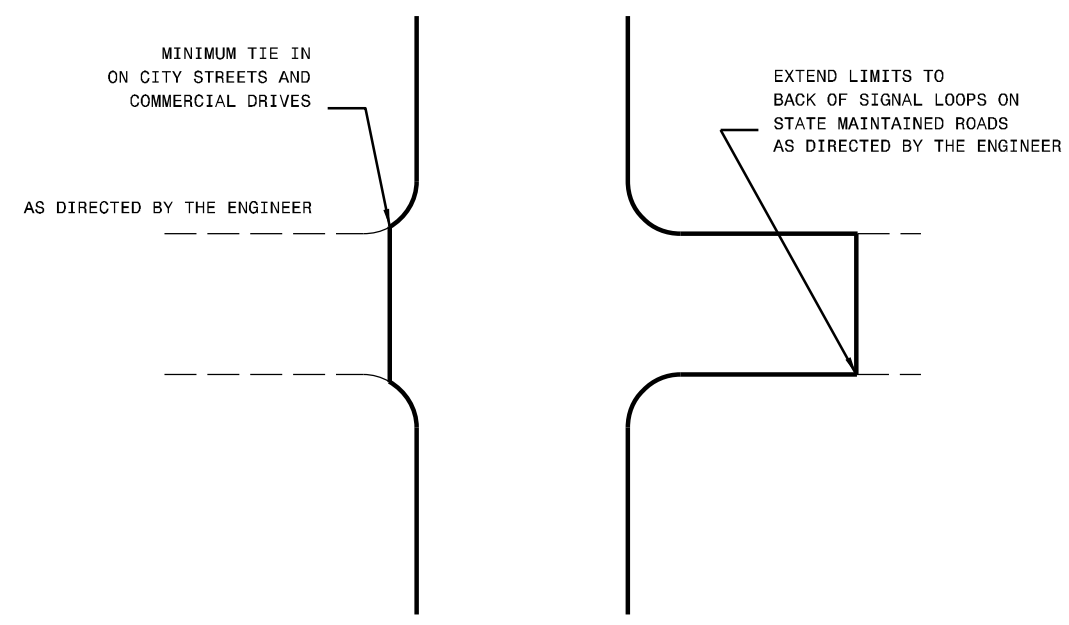
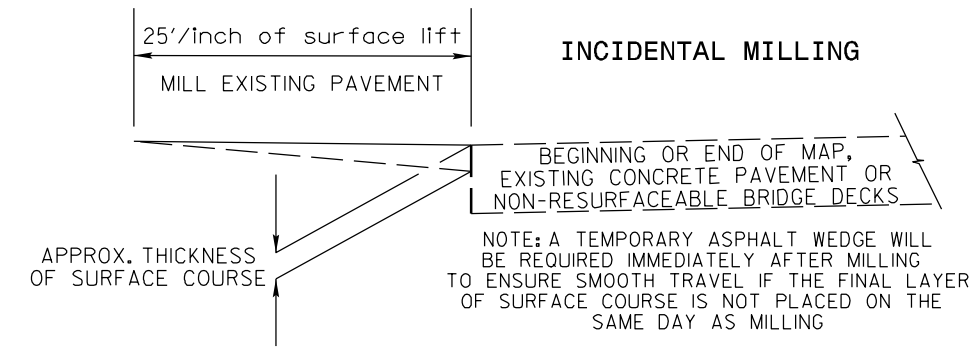
TYPICAL SECTION NO. 2

NOTES

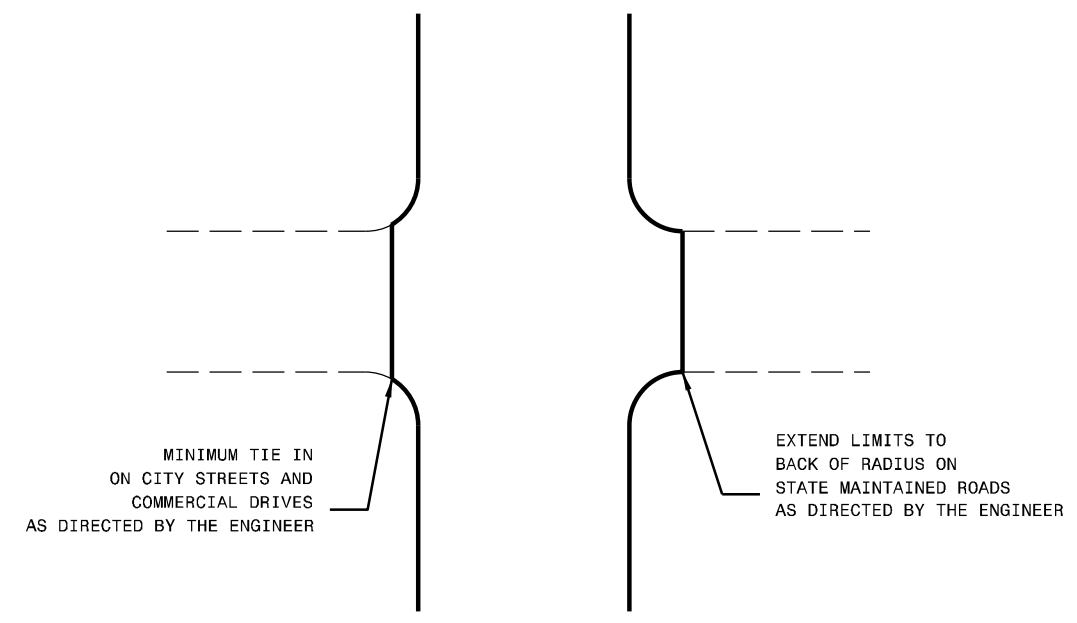
ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
BRIDGES TO BE RESURFACED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



PATCHING EXISTING PAVEMENT
MILLING TO BE PERFORMED PRIOR TO PATCHING

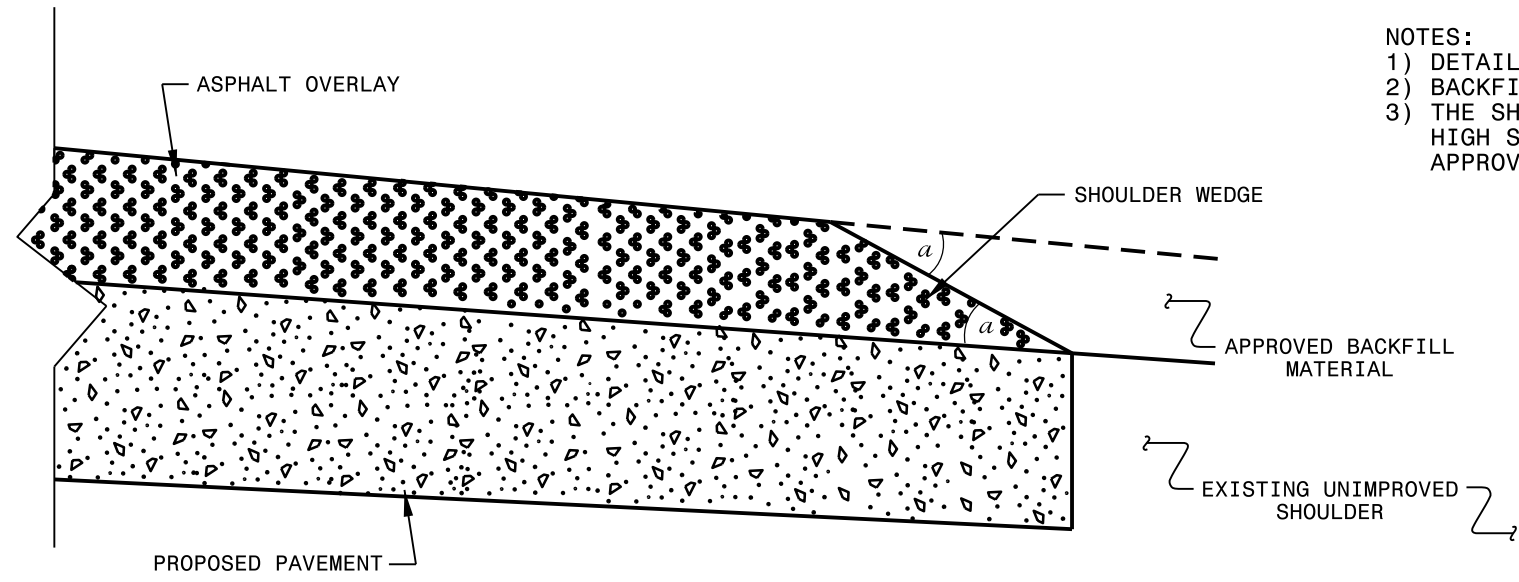


DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

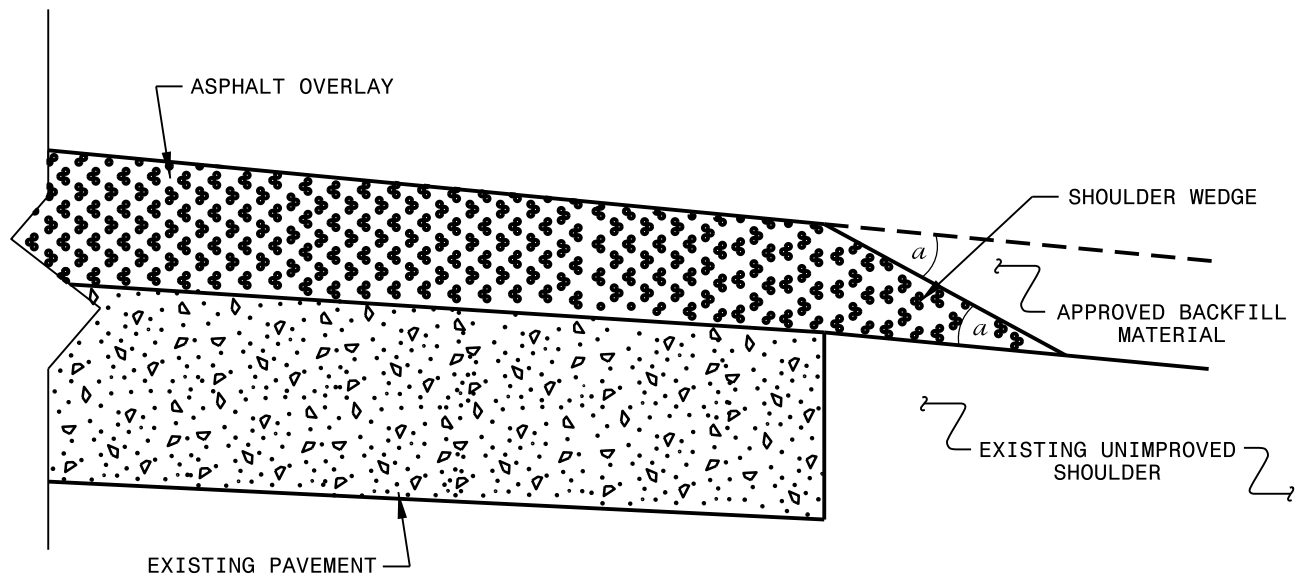


DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

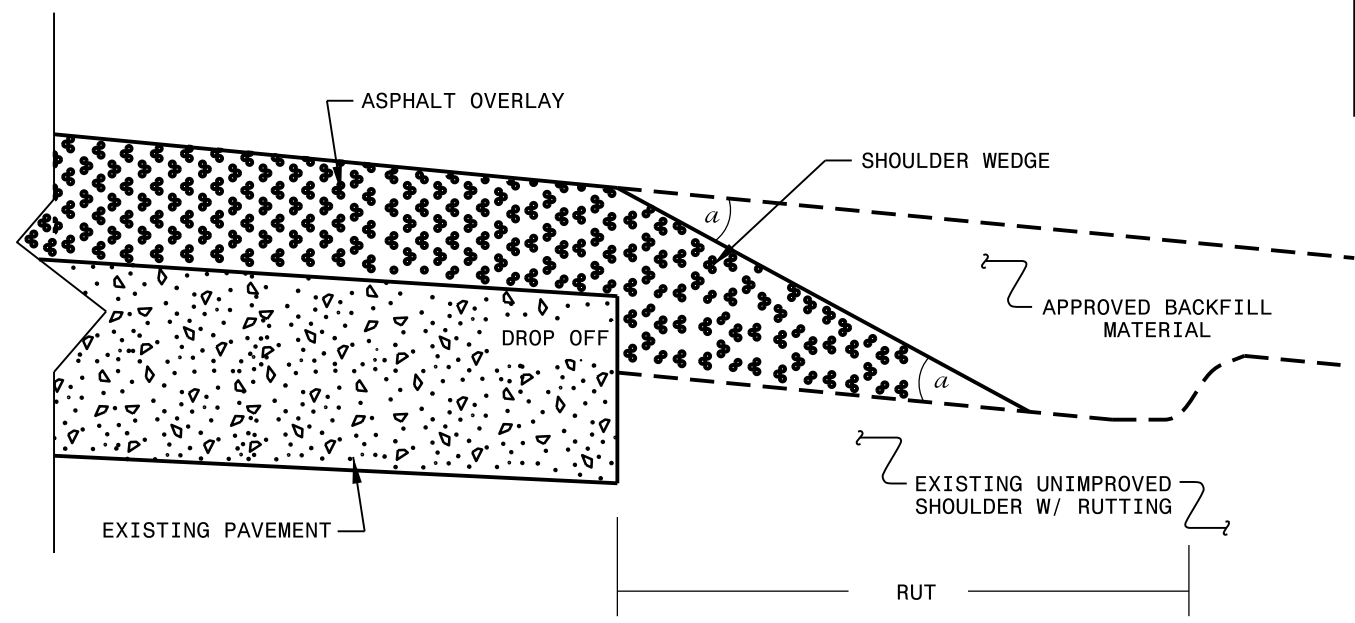
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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: 2/2/16	
CHECKED BY:	DATE:	
FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn		

22_JAN-2018_0944
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 P:\piper\41_CSD-2018-0944

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.05.15.20351.1	12	

SUMMARY OF QUANTITIES



PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	0264000000-E	1220000000-E	1260000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	6117000000-N	
											BORROW	SHOULDER GRADING	INCIDENTAL STONE BASE	AGGREGATE SHOULDER BORROW	INCIDENTAL MILLING	SURFACE COURSE, \$9.58	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	
									MI	FT	CY	SMI	TONS	TON	SY	TONS	TON	TONS	EA	EA	LF	LF	AC	EA	
2022CPT.05.15.20351.1	Franklin	1	SR 1100 - TARBORO RD	NC 98 TO US 401	1	2	NO	NO	0.97	24	10	0.99	49	162	415	1,189	80	145			14	40	0.14		
		2	SR 1103 - CLIFTON POND RD	SR 1706 - M. C. WILDER RD TO US 401	1	2	NO	NO	0.5	20	10	0.99	25	73	300	511	34	25			14	40	0.14		
		3	SR 1104 - SATTERWHITE RD	SR 1106 - MOORES POND RD TO WAKE CO	2	2	NO	NO	0.21	20	21	0.43	11		130	179	12	5			31	80	0.31		
		4	SR 1118 - LANE STORE RD	NC 56 TO SR 1116 - CEDAR CREEK RD	1	2	NO	NO	2.29	21	69	5.00	115	296	345	2,458	165	660	1			100	250	1.00	1
		5	SR 1140 - JOHN MITCHELL RD	SR 1139 - SID MITCHELL RD TO GRANVILLE CO	1	2	NO	NO	0.22	20	22	0.44	11		120	225	15	225			32	80	0.32		
		6	SR 1239 - ROCKY FORD RD	VANCE CO TO NC 39	1	2	NO	NO	5.89	20	177	12.00	295	762	630	6,024	404	700			257	650	3.00	1	
		7	SR 1429 - HIGHT RD	NC 561 TO NC 561	2	2	NO	NO	0.89	18	9	2.00	5	148	100	682	46	335			13	40	0.13		
		8	SR 1630 - RUFFIN COLLIE RD	SR 1627 - HUFORD HARRIS RD TO NASH CO	1	2	NO	NO	2.97	20	59	6.00	149	439	270	3,038	204	400			86	220	0.86	1	
		9	SR 1634 - MOORE PERKERSON RD	SR 1002 - SEVEN PATHS RD TO SR 1633 - JOHN MANN RD	1	2	NO	NO	1.12	21	22	2.24	56	166	200	1,202	81	10			33	90	0.33	1	
		10	SR 1651 - LOBLOLLY CIR	SR 1001 - FERRELLS BRIDGE RD TO SR 1001 - FERRELLS BRIDGE RD	1	2	NO	NO	0.87	21	87	1.74	44		130	934	63	770			127	320	1.27		
		11	SR 1652 - BRIDGEWATER DR	SR 1651 - LOBLOLLY CIR TO CUL-DE-SAC	1	2	NO	NO	0.38	21	38	0.76	19			440	30	730			55	140	0.55		
		12	SR 1654 - GRANDVIEW DR	SR 1651 - LOBLOLLY CIR TO CUL-DE-SAC	1	2	NO	NO	0.26	21	26	0.52	13			309	21	50			38	100	0.38		
		13	SR 1705 - DICK BAKER RD	NC 39 TO SR 1704 - SAM HORTON RD	1	2	NO	NO	1.2	21	24	2.40	60	177	140	1,288	86	10			35	90	0.35	1	
		14	SR 1706 - MC WILDER RD	SR 1103 - CLIFTON POND RD TO NC 39	1	2	NO	NO	3.94	21	118	9.00	197	510	370	4,230	283	570			1	172	430	1.72	1
		15	SR 1749 - ROSSIE JONES RD	SR 1750 - HAGWOOD RD TO NASH COUNTY	1	2	NO	NO	1.01	19	20	2.02	51	149	110	982	66	20			29	80	0.29	1	
		16	SR 1751 - SOCIAL PLAINS RD	SR 1749 - ROSSIE JONES RD TO SR 1750 - HAGWOOD RD	1	2	NO	NO	0.14	19	7	0.28	7	13	70	136	9					10	30	0.10	
		TOTAL FOR PROJ NO. 2022CPT.05.15.20351.1						22.86			719	46.81	1,107	2,895	3,330	23,827	1,599	4,655	1	1	1,046	2,680	10.89	7	
		GRAND TOTAL						22.86			719	46.81	1,107	2,895	3,330	23,827	1,599	4,655	1	1	1,046	2,680	10.89	7	

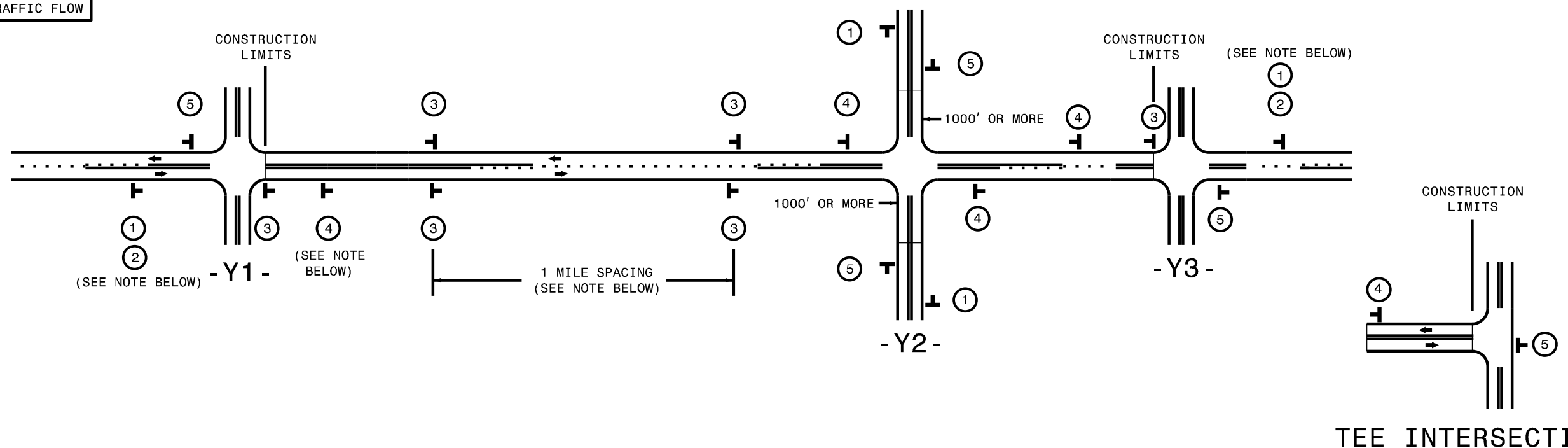
PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.05.15.20351.1	13	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		WIDTH	4413000000-E	4457000000-N	4685000000-E		4720000000-E	4725000000-E	4850000000-E	4891000000-E	
							WORK ZONE ADVANCE/GE NERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL		4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	THERMO MSG SCHOOL 90 M	THERMO RT ARROW 90 M	4" LINE REMOVAL	GENERIC PAVEMENT MARKING ITEM 24" X 90 M WHITE THERMO	HOT SPRAY THERMOPLAS TIC PAVEMENT MARKING LINES, 4", 50 MIL		
							MI	FT		SF	LS	LF	LF	EA	EA	LF	LF	LF
2022CPT.05.15.20351.1	Franklin	1	SR 1100 - TARBORO RD	NC 98 TO US 401	1	2	0.97	24	109			10,437	10,244					
		2	SR 1103 - CLIFTON POND RD	SR 1706 - M C. WILDER RD TO US 401	1	2	0.5	20	57			5,380	5,280					
		3	SR 1104 - SATTERWHITE RD	SR 1106 - MOORES POND RD TO WAKE CO	2	2	0.21	20	24			2,260	2,218					
		4	SR 1118 - LANE STORE RD	NC 56 TO SR 1116 - CEDAR CREEK RD	1	2	2.29	21	16			24,640	24,182	6	1		50	
		5	SR 1140 - JOHN MITCHELL RD	SR 1139 - SID MITCHELL RD TO GRANVILLE CO	1	2	0.22	20	25			2,367	2,324					
		6	SR 1239 - ROCKY FORD RD	VANCE CO TO NC 39	1	2	5.89	20	660			63,376	62,198			480		480
		7	SR 1429 - HIGHT RD	NC 561 TO NC 561	2	2	0.89	18	100									
		8	SR 1630 - RUFFIN COLLIE RD	SR 1627 - HUFORD HARRIS RD TO NASH CO	1	2	2.97	20	333			31,957	31,364					
		9	SR 1634 - MOORE PERKERSON RD	SR 1002 - SEVEN PATHS RD TO SR 1633 - JOHN MANN RD	1	2	1.12	21	125		*	12,051	11,828					
		10	SR 1651 - LOBLOLLY CIR	SR 1001 - FERRELLS BRIDGE RD TO SR 1001 - FERRELLS BRIDGE RD	1	2	0.87	21	97									
		11	SR 1652 - BRIDGEWATER DR	SR 1651 - LOBLOLLY CIR TO CUL-DE-SAC	1	2	0.38	21	43									
		12	SR 1654 - GRANDVIEW DR	SR 1651 - LOBLOLLY CIR TO CUL-DE-SAC	1	2	0.26	21	29									
		13	SR 1705 - DICK BAKER RD	NC 39 TO SR 1704 - SAM HORTON RD	1	2	1.2	21	134			12,912	12,672					
		14	SR 1706 - MC WILDER RD	SR 1103 - CLIFTON POND RD TO NC 39	1	2	3.94	21	441			42,394	41,606					
		15	SR 1749 - ROSSIE JONES RD	SR 1750 - HAGWOOD RD TO NASH COUNTY	1	2	1.01	19	113			10,868	10,666					
		16	SR 1751 - SOCIAL PLAINS RD	SR 1749 - ROSSIE JONES RD TO SR 1750 - HAGWOOD RD	1	2	0.14	19	16			1,506	1,478					
TOTAL FOR PROJ NO. 2022CPT.05.15.20351.1						22.86		2,322	1.00	220,148	216,060	6	1	480	50	480		
		436,208																
GRAND TOTAL						22.86		2,322	1.00	220,148	216,060	6	1	480	50	480		
		436,208																







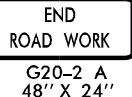
SIGNING FOR RESURFACING PROJECTS

LEGEND
 STATIONARY SIGN
 DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) 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;">  <small>W20-1 48" X 48"</small> PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;">  <small>W20-7 A 48" X 48"</small> PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
		<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>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</p> <p>- 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>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>		
<p>MAPS LESS THAN 2 MILES</p>	<p>FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.</p>		



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

\$\$\$SYTIME\$\$\$\$\$
 \$\$\$DCON\$\$\$\$\$
 \$\$\$USERNAME\$\$\$\$\$