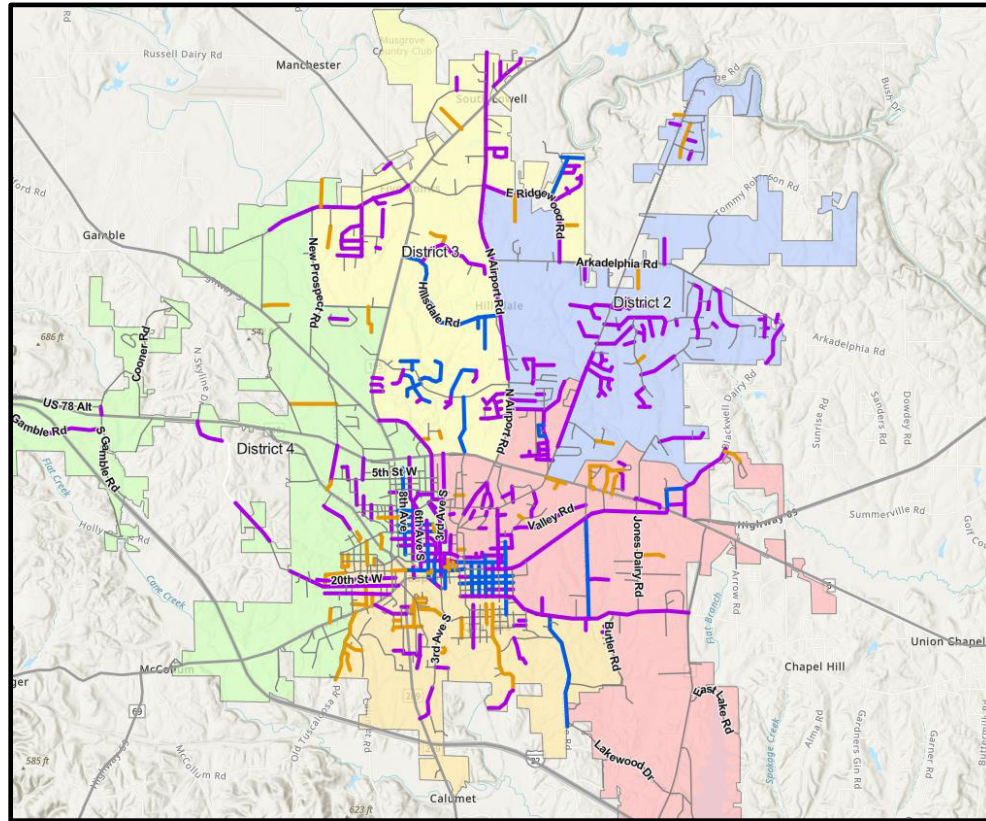


Jasper 2022 Paving

For the Construction of Crack Sealing, Patching, Microsurfacing, and Paving



SAIN
ASSOCIATES

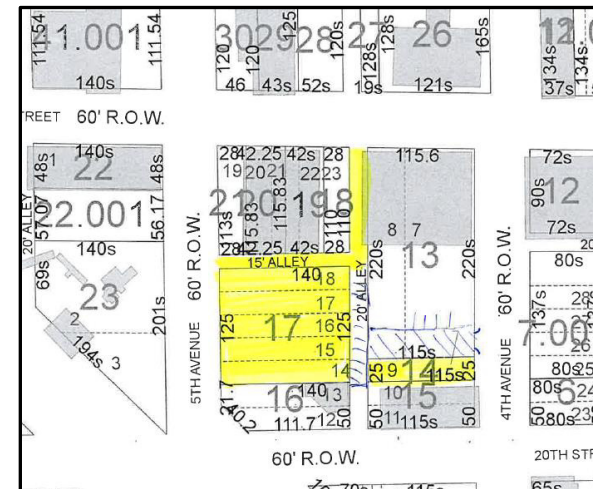
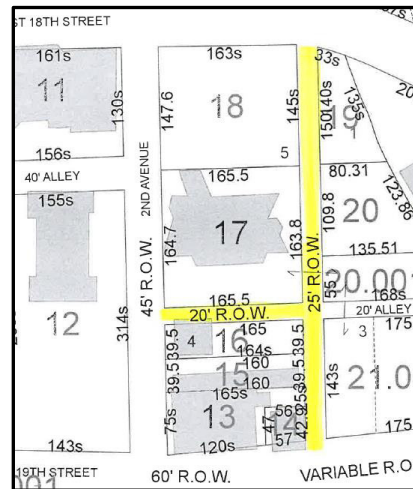
Jasper 2022 Paving

Plan Notes



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1. Contractor is to provide sufficient traffic control in accordance with the MUTCD. Pilot cars should be used on arterials. Engineer or inspector may require additional measures by the contractor where necessary for safety of the workers and traveling public.
2. Contract time is established at 90 calendar days. Liquidated damages in the amount of \$750 per day will apply thereafter.
3. There is a 5% retainage on payments until completion of the punchlist.
4. The milling and overlay operation is planned to be 2" in thickness, or 220 lbs/sy.
5. Patching was estimated as number of locations of 6'x6' areas. Depth of patching was estimated at 6", but shall be a minimum of 4" and may go up to 10" deep with approval of the engineer.
6. The time between the milling and overlay operation shall be a maximum of 7 days.
7. Temporary reflective marker tabs for use on arterials and collectors are paid once and shall be maintained by the contractor as needed until the final thermo striping is placed. 1 TY-2 Yellow faced tab per 40' will be the temporary centerline.
8. Any existing speed humps shall be preserved. If contractor chooses to remove them for their operations, they shall be replaced at no additional cost to the city.
9. Smaller paving machines suited for parking lots are not allowed. The minimum sized paver shall have at least 100 HP or minimum 30,000 lbs operating weight.
10. Note there are some alleyways for paving: 2nd Ave & 19th St Alley are these 4th Ave Alleyway includes some parking lots



11. Upon successful completion of this phase of work, if both parties agree, additional quantities may be authorized for a Phase II portion. The engineer's estimate for the Phase II portion is \$1.4 million.
12. Any pavement edge drop offs greater than 1.5" after paving shall be backfilled using RAP or other acceptable material. This work is subsidiary.

Jasper 2022 Paving: Bid Quantities

Item #	Description	Unit	Qty	Engineer's Estimate		Contractor's Bid	
				Bid Amount	Cost	Bid Amount	Cost
403B-000	Micro SurfacingTy II	Tons	1,917	\$ 350.00	\$ 670,973.28	\$ 1.00	\$ 1,917.07
405A-000	Tack Coat	Gal	4,443	\$ 5.00	\$ 22,215.00	\$ 1.00	\$ 4,443.00
408A-052	PlaningExist Pav(1.1"-2")	SY	25,775	\$ 4.50	\$ 115,987.50	\$ 1.00	\$ 25,775.00
424A-360	Superpave Wearing Surf, 1/2"	Tons	9,723	\$ 110.00	\$ 1,069,530.00	\$ 1.00	\$ 9,723.00
424B-639	Superpave, Patching, 3/4"	Tons	1,049	\$ 150.00	\$ 157,410.00	\$ 1.00	\$ 1,049.40
469A-101	Crack Sealing	Centerline Miles	39	\$ 6,500.00	\$ 253,804.36	\$ 1.00	\$ 39.05
701G-265	Solid Yellow, CI 2, Ty A, 5" Thermo	LF	114,170	\$ 0.70	\$ 79,919.00	\$ 1.00	\$ 114,170.00
703A-000	Traf Control Markings & Legends, CI 2 Thermo	SF	9,668	\$ 6.00	\$ 58,008.00	\$ 1.00	\$ 9,668.00
705A-020	Pav Mrks (Temp Refl Tabs) CI C, Ty 2D	Ea	380	\$ 4.00	\$ 1,520.00	\$ 1.00	\$ 380.00
				Subtotal =	\$ 2,429,367.13	Subtotal =	\$ 167,164.51
999-001	10% Owner's Contingency Item			Subtotal x 10% =	\$ 242,936.71	Subtotal x 10% =	\$ 16,716.45
				Total	\$ 2,672,303.85	Total	\$ 183,880.96

Basis

<p>403B-000 424A-360 705A-020 999-001</p>	<p>Micro Surfacing estimated at either 18 lbs/sy, 25 lbs/sy, or a 2-course 12+18 lbs/sy</p> <p>Hot Mix overlay estimated for 2" at 220/lbs/sy</p> <p>Temp Refl Tabs for temporary centerline striping of arterials and collectors. 1 TY-2 tab per every 40'. See this link or equivalent: Tab link here</p> <p>Contingency line item built into the contract at 10% of the subtotal of other bid items. For use by engineer.</p> <p>Project shall follow ALDOT 2022 Highway Specifications</p>
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This excel file shall be used to calculate your bid. Fill in your unit price over the greyed cells showing the engineer's estimate, verify calculations, print it out, sign it, and insert it in your bid submittal.

Signed
Print Name & Title

Jasper 2022 Paving: Crack Sealing

Street	Length	Width	SY	Crack Sealing
				Mile
13th Ave SE	856	12	1141	0.16
14th Ave NE	1681	20	3736	0.32
14th Ave NE	1010	20	2245	0.19
14th St E	717	30	2390	0.14
16th St E	1119	20	2487	0.21
17th St E	1136	24	3029	0.22
17th St E	1082	19	2283	0.20
1st Ave E	949	20	2110	0.18
2nd St NE	857	20	1905	0.16
7th Way E	369	10	410	0.07
Academy Ln	188	21	440	0.04
Airport Rd S	2112	24	5633	0.40
Artie Ln	1144	13	1653	0.22
Cherokee Dr	1124	20	2497	0.21
Gamble Ave	355	24	946	0.07
Gamble Ave	2864	24	7637	0.54
Golden Eagle Dr	478	24	1274	0.09
Golden Eagles Cir	1561	24	4162	0.30
Grayson Cir	233	22	569	0.04
Indiana Ave	718	35	2792	0.14
Industrial Pkwy	785	66	5759	0.15
Merrywood Ln	407	15	678	0.08
N Walston Bridge Rd	2290	20	5089	0.43
N Walston Bridge Rd	1637	20	3638	0.31
Orchard Rd	824	20	1832	0.16
Orchard Rd	1451	20	3224	0.27
Ponce de Leon Cir	208	22	510	0.04
Ponce de Leon Dr	765	22	1870	0.14
Skyland Dr	597	21	1394	0.11
Valley Rd	4124	33	15122	0.78
Viking Dr	5541	33	20318	1.05
Viking Dr	4170	24	11119	0.79
Wildwood Cir	359	20	797	0.07
Afton Way	705	21	1646	0.13
Ashwood Trl	296	20	658	0.06
Beaver Run	419	22	1023	0.08
Briar Cliff Rd	2314	20	5143	0.44
Carter Ln	551	24	1469	0.10
Cedarbrook Ln	1046	21	2442	0.20
Charter Cir	556	21	1297	0.11
Charter Rd	1528	21	3565	0.29
County Hwy 51	898	20	1996	0.17
Deer Run	604	22	1477	0.11
E Ridgewood Rd	7411	22	18116	1.40
Fairbrook Ln	325	22	794	0.06
Greenbriar Ln	648	19	1367	0.12
Hampton Ct	290	20	644	0.05
Heritage Dr	2602	20	5782	0.49
Heritage Dr	1075	20	2388	0.20
Lenwood Dr	3117	20	6927	0.59
Long Ridge Dr	2026	22	4951	0.38
			Subtotal	13.28

Street	Length	Width	SY	Crack Sealing
				Mile
N Walston Bridge Rd	569	22	1390	0.11
Norma Ln	409	22	1000	0.08
Northfield Cir	215	22	526	0.04
Northfield Dr	1217	22	2975	0.23
Oakdale Cir	783	20	1739	0.15
Oakdale St	1689	21	3941	0.32
Oakridge Dr	2673	20	5940	0.51
Old Wood Cir	574	22	1403	0.11
Old Wood Ln	1387	22	3389	0.26
Overbrook Cir	451	22	1102	0.09
Overton Dr	814	22	1990	0.15
Overton Rd	391	20	869	0.07
Pawnee Cir	1016	22	2484	0.19
Pear Tree Pl	248	21	578	0.05
Pineview Rd	3815	20	8477	0.72
Robinwood Dr	1370	16	2435	0.26
Shades Cliff Cir	597	22	1458	0.11
South Cir	187	20	416	0.04
Wildflower Ln	878	18	1756	0.17
Willowbrook Dr	1063	18	2126	0.20
10th St NW	583	21	1361	0.11
11th St NW	593	20	1318	0.11
Airport Rd	806	24	2148	0.15
Atlantic Cir	279	22	681	0.05
Bankston Cir	247	18	495	0.05
Boardwalk Cir	2224	21	5189	0.42
Coral Blvd	2649	18	5298	0.50
Dogwood Cir	265	22	647	0.05
Dogwood Trl	1432	24	3818	0.27
Dogwood Way	349	24	932	0.07
Excalibur Dr	486	17	918	0.09
Haston Cir	220	24	586	0.04
Haston Dr	1052	24	2805	0.20
Haston Ter	321	24	855	0.06
Hickory Hill Cir	661	19	1396	0.13
N Airport Rd	10507	22	25683	1.99
N Highland Blvd	1461	18	2922	0.28
N Primrose Ln	1996	18	3991	0.38
Pacific Cir	204	24	543	0.04
Ridge Dr	728	16	1294	0.14
Ridge Loop	975	16	1733	0.18
Roy Bennett Cir	755	17	1426	0.14
Rutledge Ln	1122	16	1995	0.21
S Lowell Rd	2769	18	5539	0.52
S Lowell Rd	3547	19	7488	0.67
S Primrose Ln	1064	16	1892	0.20
Short Leaf Cir	266	22	651	0.05
Sunset Dr	1382	16	2456	0.26
Sunshine Dr	480	22	1172	0.09
Virginia Dr	1019	22	2491	0.19
Woodland Dr	338	24	903	0.06
			Subtotal	11.58

Street	Length	Width	SY	Crack Sealing
				Mile
Woodland Dr	1238	24	3301	0.23
10th Ave	1411	21	3292	0.27
14th Ave W	974	22	2381	0.18
15th St W	355	22	867	0.07
15th St W	784	24	2092	0.15
16th St W	446	34	1686	0.08
16th St W	1578	18	3156	0.30
17th St W	1031	32	3665	0.20
17th St W	995	34	3760	0.19
18th St W	1989	38	8397	0.38
21st St W	6051	22	14792	1.15
22nd St W	1126	20	2503	0.21
22nd St W	321	22	784	0.06
2nd Ave	924	36	3696	0.18
2nd Ave S	540	20	1201	0.10
3rd Ave S	6620	36	26482	1.25
4th Ave S	2288	19	4830	0.43
4th Ave S	1355	30	4516	0.26
4th St SW	308	20	685	0.06
5th Ave S	1300	19	2744	0.25
6th Ave S	672	18	1345	0.13
6th Ave S	3777	24	10072	0.72
7th Average	5519	22	13491	1.05
8th St W	360	20	801	0.07
9th St W	556	19	1173	0.11
Cherokee Rd	1951	26	5635	0.37
Creekside Dr	984	20	2186	0.19
Glenview Dr	625	18	1251	0.12
Highway 78 W	440	36	1762	0.08
Marion Ave	1088	20	2419	0.21
Panther Trl	274	21	640	0.05
Park St	428	18	856	0.08
W Gamble Rd	7766	24	20710	1.47
19th Ave SE	617	14	960	0.12
19th St E	1082	42	5052	0.21
20th St E	270	34	1020	0.05
20th St W	4256	20	9458	0.81
22nd St W	2050	24	5468	0.39
30th St W	518	14	806	0.10
31st St W	968	20	2151	0.18
31st St W	723	20	1606	0.14
6th Ave S	1100	24	2932	0.21
7th Ave W	533	24	1422	0.10
Brentwood Cir	235	22	575	0.04
C St	359	18	718	0.07
Chestnut Cir	322	22	786	0.06
Corona Ave	2327	24	6204	0.44
D St	669	18	1338	0.13
Old Bankhead Hwy	352	22	860	0.07
Old Birmingham Hwy	1530	22	3739	0.29
Russell Way	934	40	4153	0.18
			Subtotal	14.19
			Grand Total	39.05

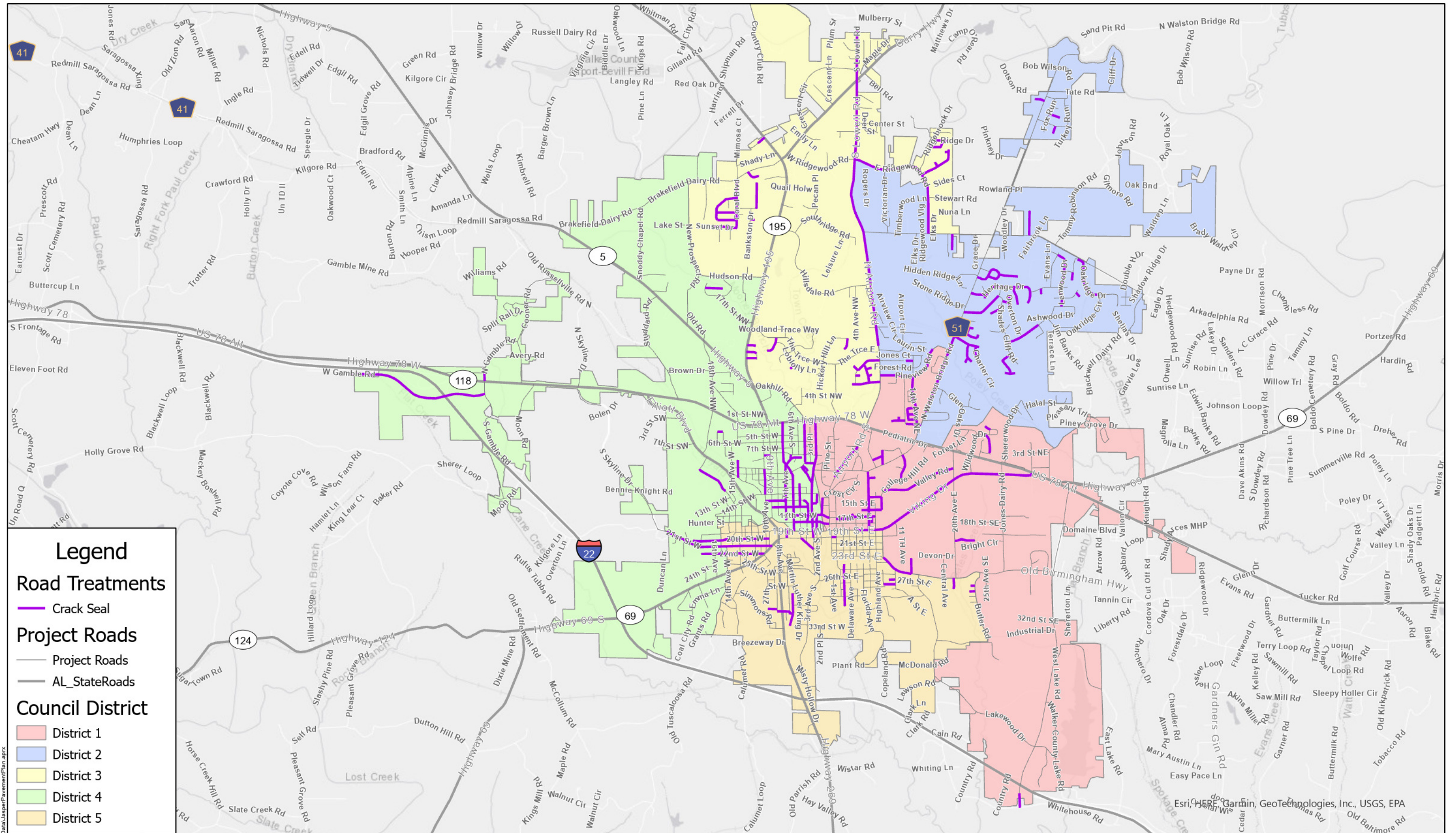


Jasper 2022 Paving: Microsurfacing

				Patching		Microsurfacing			Striping		Markings / Legends		Comments
				Estimated Locations	Tons @ 1.65/each	Thin @ 18 lbs/sy	Medium @ 25 lbs/sy	Thick @ 12+18 lbs/sy	Double YS	Temporary Reflective Tabs	StopBars	CrossWalks	
Street	Length	Width	SY	EA	Tons	Tons	Tons	Tons	LF	LF	SF	SF	
18th St E	1090	24	2906	15	24.75	0.0	0.0	43.6	0		140	528	
18th St E	1484	28	4616	20	33.00	0.0	0.0	69.2	2970				Speed humps
19th St E	387	48	2066	4	6.60	0.0	0.0	31.0	770				
20th Ave E	3370	19	7114	20	33.00	0.0	0.0	106.7	6740	84	28		
20th Ave E	2067	19	4364	13	21.45	0.0	54.6	0.0	4130	52			
Eagles Cir	1181	24	3149	15	24.75	0.0	0.0	47.2	2360		56		
Whitehouse Rd	2385	31	8216	2	3.30	73.9	0.0	0.0	4770		56		
11th St W	804	24	2144	36	59.40	0.0	0.0	32.2	1610		28		
12th St W	1216	18	2433	10	16.50	0.0	0.0	36.5	0		28		
13th St W	1902	20	4226	16	26.40	0.0	0.0	63.4	3800		84		
14th St W	2519	20	5597	30	49.50	0.0	0.0	84.0	5040		84	176	
19th St W	2824	40	12551	25	41.25	0.0	0.0	188.3	0		420	1760	
5th Ave S	1722	40	7652	9	14.85	0.0	0.0	114.8	0		84	352	
8th Ave	4616	18	9231	25	41.25	0.0	115.4	0.0	9230		56		
20th St E	1101	20	2448	5	8.25	0.0	0.0	36.7	2200		112	176	
20th St E	1455	24	3880	18	29.70	0.0	0.0	58.2	0				
21st St E	1385	24	3692	15	24.75	0.0	0.0	55.4	0		140		
21st St E	1447	18	2894	8	13.20	0.0	0.0	43.4	0			176	
2nd Ave S	967	24	2578	5	8.25	0.0	0.0	38.7	1930		84	176	
4th Ave S	1171	38	4944	7	11.55	0.0	61.8	0.0	0		140	880	
Corona Ave	1820	24	4852	20	33.00	0.0	0.0	72.8	3640		168	528	
Delaware Ave	1606	24	4283	20	33.00	0.0	53.5	0.0	3210		84	352	
Euclid Ave	2179	21	5085	12	19.80	0.0	63.6	0.0	4360		56	176	
Florida Ave	1813	20	4029	25	41.25	0.0	0.0	60.4	3630		84	176	Speed humps
Highland Ave	3895	24	10387	31	51.15	0.0	0.0	155.8	7790		392	528	
Whitehouse Rd	3902	24	10405	23	37.95	0.0	0.0	156.1	7800		56		
				Total	707.9	73.9	348.8	1494.3	75980.0	136.0	2380.0	5984.0	

Jasper 2022 Paving: Milling & Overlays

				Patching		Paving			Striping		Markings / Legends		Comments
				Estimated Locations	Tons @ 1.65/each	Milling	Tack Coat	Overlay	Double YS	Temporary Reflective Tabs	StopBars	CrossWalks	
Street	Length	Width	SY	Each	Tons	SY	Gal	Tons	LF	LF	SF	SF	
1st Ave E	431	20	958	2	3.30	0	48	105	0	0			
Cherokee Cir	1081	20	2403	5	8.25	0	121	264	0	0	30		Elimnated striping
Fernway Dr	2697	19	5693	13	21.45	0	285	626	0	0	28		
Meadow Way	1026	28	3192	5	8.25	3192	160	351	0	0			
Peach Orchard Rd	398	16	708	2	3.30	0	36	78	0	0			
Pediatric Dr	1113	24	2969	12	19.80	0	149	327	0	0			Some edge patching
Wildwood Dr	2045	20	4546	10	16.50	0	228	500	4090	0	30		
Acadian Pl	971	22	2373	5	8.25	0	119	261	1940	0			
Mill Run Ct	471	22	1152	2	3.30	0	58	127	0	0	28		
Woodley Dr	1314	13	1898	7	11.55	0	95	209	0	0			
3rd Ave NW	381	19	805	2	3.30	0	41	89	0	0			
Gilley Ct	1291	14	2008	6	9.90	0	101	221	0	0			
Laurel Ln	407	20	904	2	3.30	0	46	99	0	0			
Rolling Meadows Dr	1146	26	3311	6	9.90	0	166	364	0	0			
11th Ave S	811	20	1802	7	11.55	0	91	198	0	0	28		
12th St W	1024	16	1821	5	8.25	0	92	200	2050	0	84		
18th Ave SW	521	22	1274	3	4.95	0	64	140	1040	0			
18th Ave W	655	20	1456	3	4.95	0	73	160	1310	0			
19th Alley	197	26	568	1	1.65	0	29	62	0	0			
19th St W	1094	17	2066	5	8.25	0	104	227	2190	110	28		
2nd Alley	534	26	1543	3	4.95	1543	78	170	0	0		352	
4th Ave S	383	20	850	2	3.30	850	43	94	0	0			
Amelia Ave	654	16	1163	3	4.95	0	59	128	0	0			
Gray Ave	602	15	1003	3	4.95	0	51	110	0	0			
Harrison Shipman Rd	1468	20	3263	7	11.55	0	164	359	2940	37			
Key Camp Rd	1395	15	2325	7	11.55	0	117	256	0	0			
Matthews Ct	566	22	1384	3	4.95	0	70	152	0	0			
Springdale Ln	1417	14	2203	7	11.55	0	111	242	0	0			
Williams St	1305	18	2610	7	11.55	0	131	287	2610	0			
12th Aly W	360	15	599	2	3.30	0	30	66	0	0			
23rd St W	642	16	1141	3	4.95	1141	58	126	1280	0			
24th St W	445	19	940	2	3.30	940	47	103	0	0			
25th St W	1534	22	3749	8	13.20	3749	188	412	3070	0	56	176	Can omit milling at ditches
26th St W	364	12	485	2	3.30	0	25	53	730	0			
27th St W	1700	20	3777	8	13.20	0	189	415	3400	0	56		
4th Alley			3120	2	3.30	3120	156	343	0	0			
7th Ave	1515	24	4041	8	13.20	0	203	445	3030	0	28	352	
7th Pl	365	14	568	6	9.90	0	29	62	730	0			
Mary St	330	14	513	2	3.30	0	26	56	0	0			
Old Tuscaloosa Rd	3891	26	11240	19	31.35	11240	562	1236	7780	97	28		Can omit milling at ditches
				Total	341.55	25775	4443	9723	38190	244	424	880	



Legend

Road Treatments

— Crack Seal

Project Roads

— Project Roads

— AL_StateRoads

Council District

- District 1
- District 2
- District 3
- District 4
- District 5

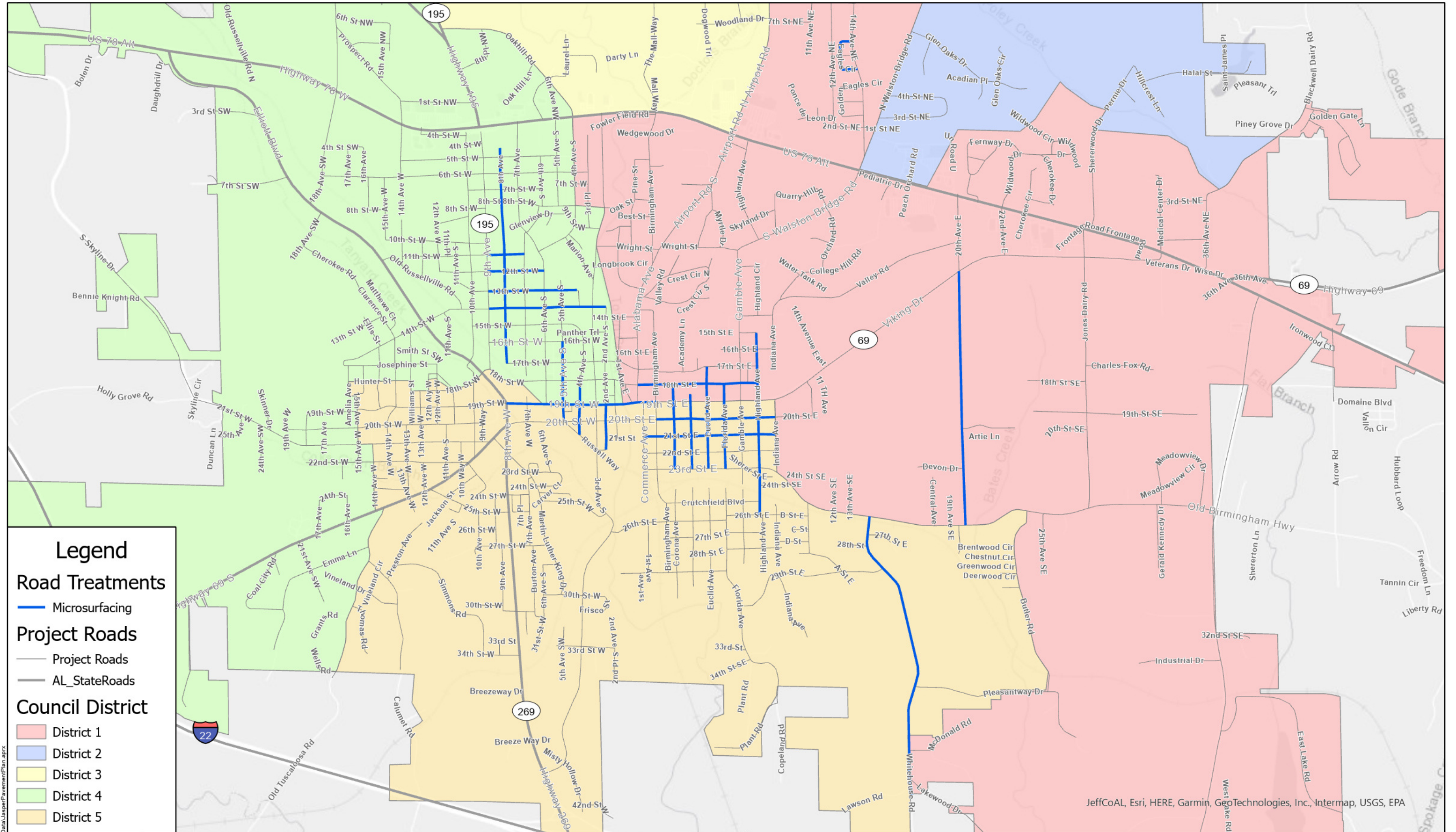
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Phase 1 Crack Seal Treatments

2022 Pavement Plan
Jasper, Alabama

Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA



Legend

Road Treatments

— Microsurfacing

Project Roads

— Project Roads

— AL_StateRoads

Council District

- District 1
- District 2
- District 3
- District 4
- District 5

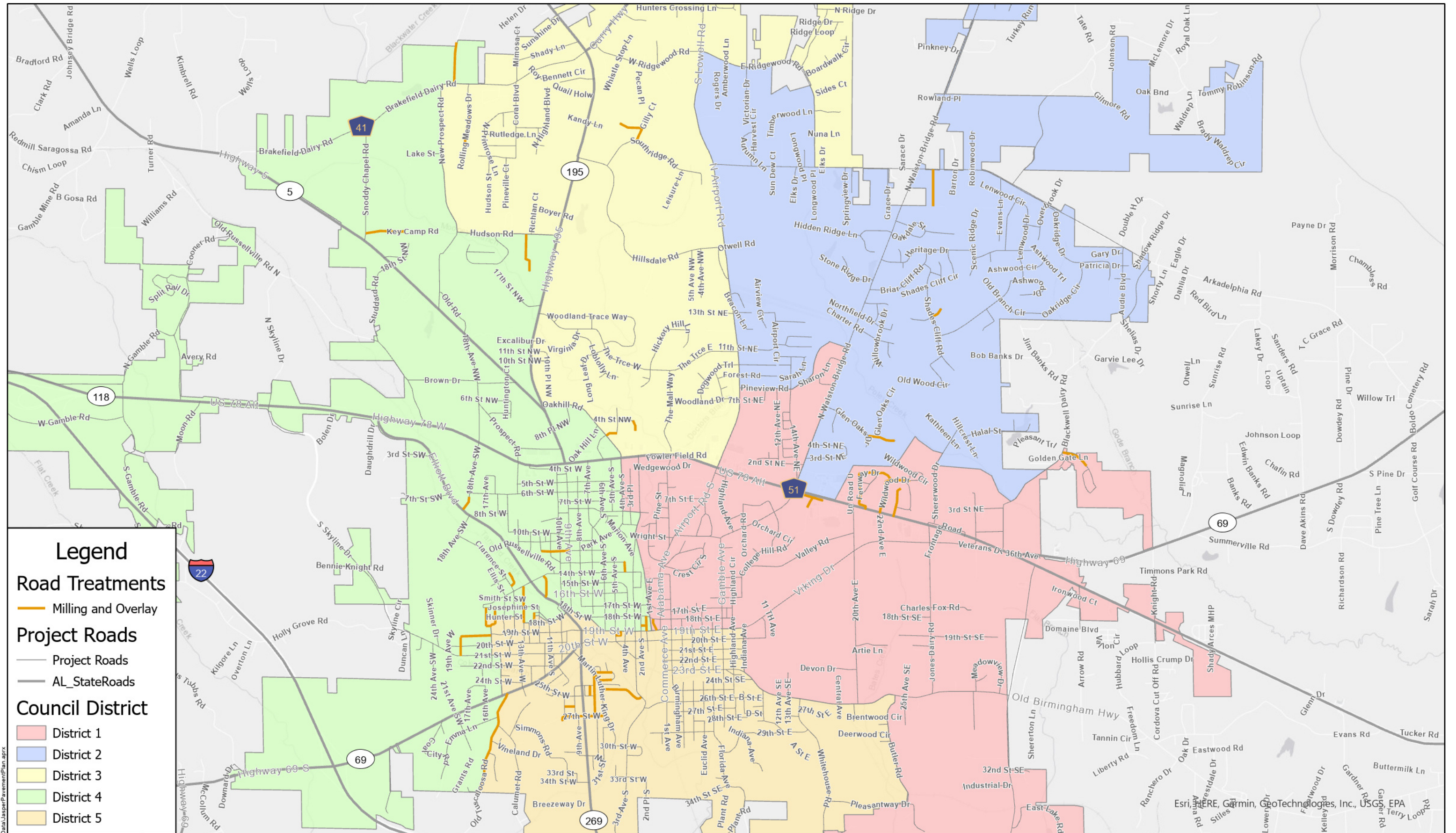
Phase 1 Microsurfacing Treatments

2022 Pavement Plan
Jasper, Alabama



JeffCoAL, Esri, HERE, Garmin, GeoTechnologies, Inc., Intermap, USGS, EPA

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Legend

Road Treatments

— Milling and Overlay

Project Roads

— Project Roads

— AL_StateRoads

Council District

- District 1
- District 2
- District 3
- District 4
- District 5

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Phase 1 Mill and Overlay Treatments

2022 Pavement Plan
Jasper, Alabama

Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA, Terry Loop Rd