



Proposed Five Year Resurfacing Plan FY20 - FY24

Review and Approval Process

- Pavement Condition Evaluation
- Priority Consideration Given:
 - Council and Community Interests
 - Multi-Modal Streets and Collector Streets
 - Projects that Leverage Funds and Return
- Coordination with Internal Staff and Other Entities
- Bike – Pedestrian Champion Team Review and Recommendations
- Transportation and Connectivity Advisory Board
- Council Approval as Required

Pavement Condition Evaluation

- ~750 Town-Maintained Paved Streets
- ~165 Paved Centerline Miles

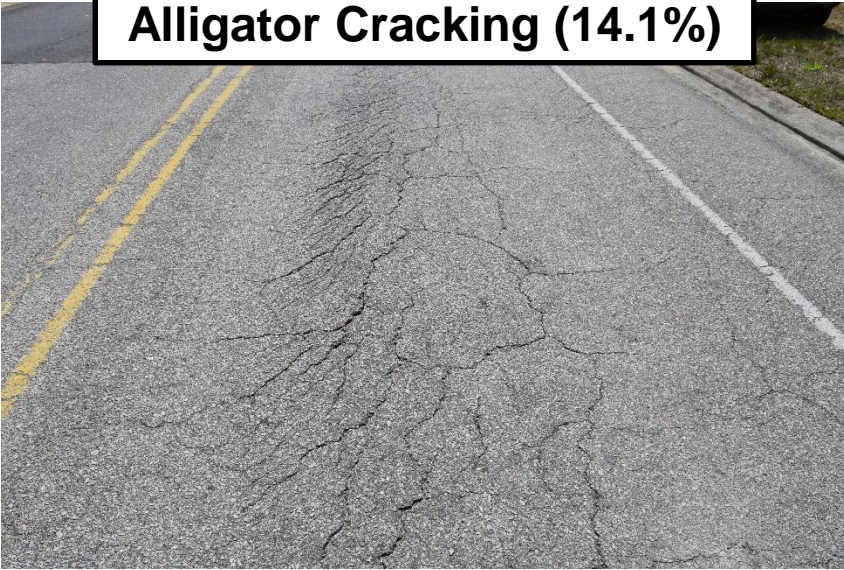
Table 6
PAVEMENT CONDITION SURVEY DISTRESS SUMMARY FOR RATED STREETS

Distress Items	Miles Low Volume	Miles High Volume	Total Miles	% Miles
1. Alligator Cracking				
None	86.84	29.54	116.39	70.1
Light	19.66	6.42	26.09	15.7
Moderate	6.29	3.19	9.48	5.7
Severe	9.56	4.42	13.99	8.4
2. Block Cracking				
None	12.02	8.38	20.41	12.3
Light	87.64	26.54	114.18	68.8
Moderate	19.35	5.97	25.33	15.3
Severe	3.34	2.68	6.02	3.6
3. Reflective Cracking				
None	122.23	43.58	165.81	99.9
Light	0.12	0.00	0.12	0.1
Moderate	0.00	0.00	0.00	0.0
Severe	0.00	0.00	0.00	0.0
4. Rutting				
None	118.06	42.38	160.44	96.7
Light	4.30	1.20	5.50	3.3
Moderate	0.00	0.00	0.00	0.0
Severe	0.00	0.00	0.00	0.0
5. Raveling				
None	119.77	41.98	161.75	97.5
Light	2.59	1.60	4.18	2.5
Moderate	0.00	0.00	0.00	0.0
Severe	0.00	0.00	0.00	0.0
6. Bleeding				
None	122.36	43.58	165.93	100.0
Light	0.00	0.00	0.00	0.0
Moderate	0.00	0.00	0.00	0.0
Severe	0.00	0.00	0.00	0.0
7. Ride Quality				
Average	117.92	37.80	155.72	93.8
Slightly Rough	4.43	5.78	10.21	6.2
Rough	0.00	0.00	0.00	0.0
8. Patching				
None	95.38	26.81	122.19	73.6
Light	17.80	6.42	24.22	14.6
Moderate	6.04	5.93	11.98	7.2
Severe	3.13	4.42	7.55	4.6
Total	122.36	43.58	165.93	100.00

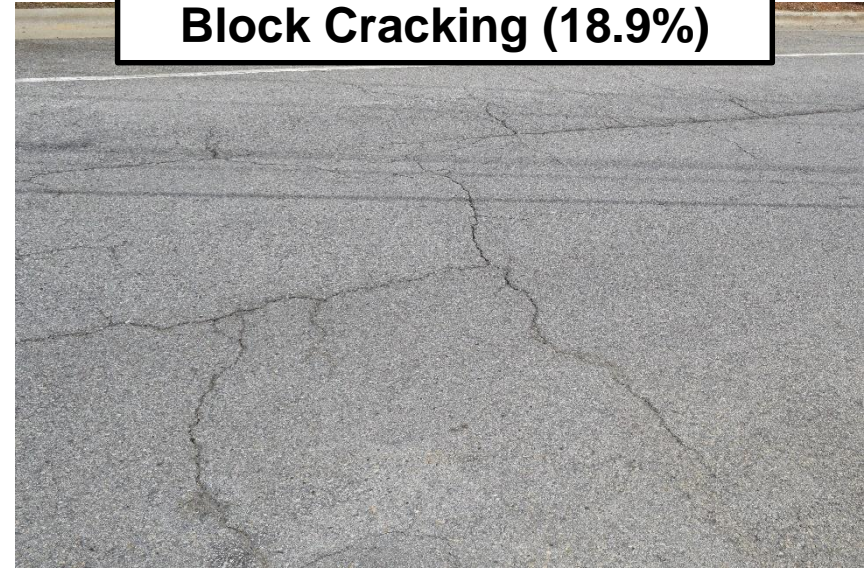
Note: Columns may not add up exactly due to rounding.

Pavement Distresses

Alligator Cracking (14.1%)



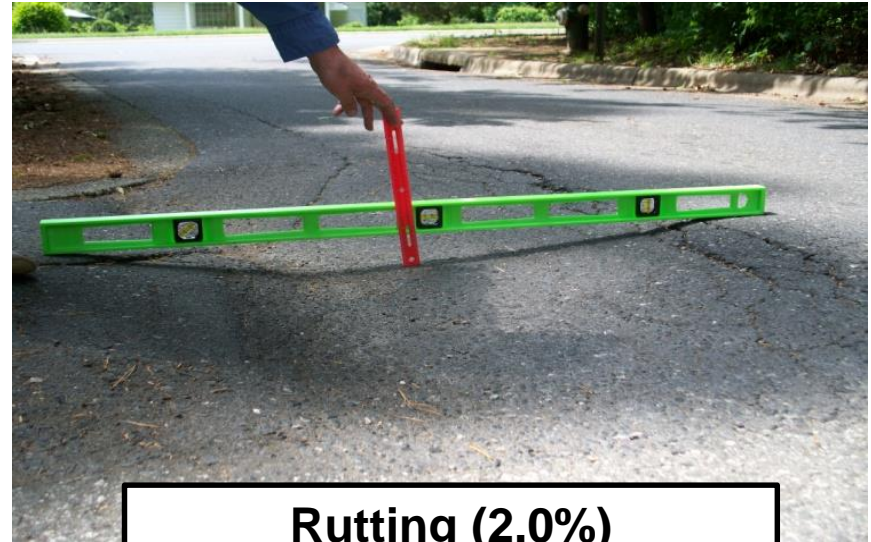
Block Cracking (18.9%)



Reflective Cracking (0.0%)



Rutting (2.0%)

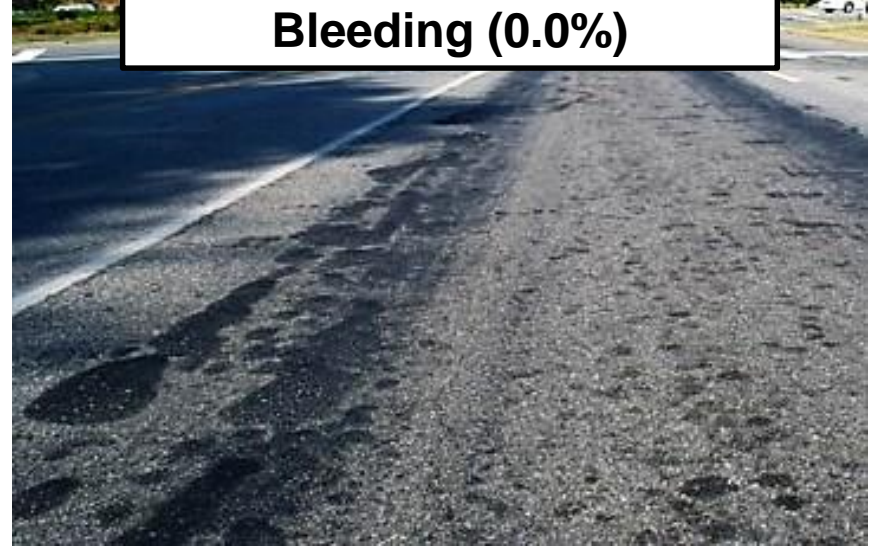


Pavement Distresses

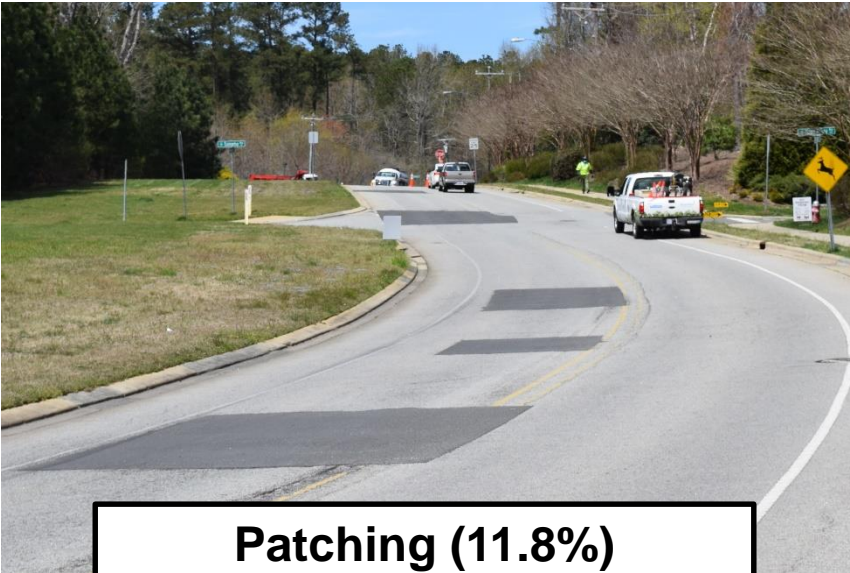
Raveling (0.0%)



Bleeding (0.0%)



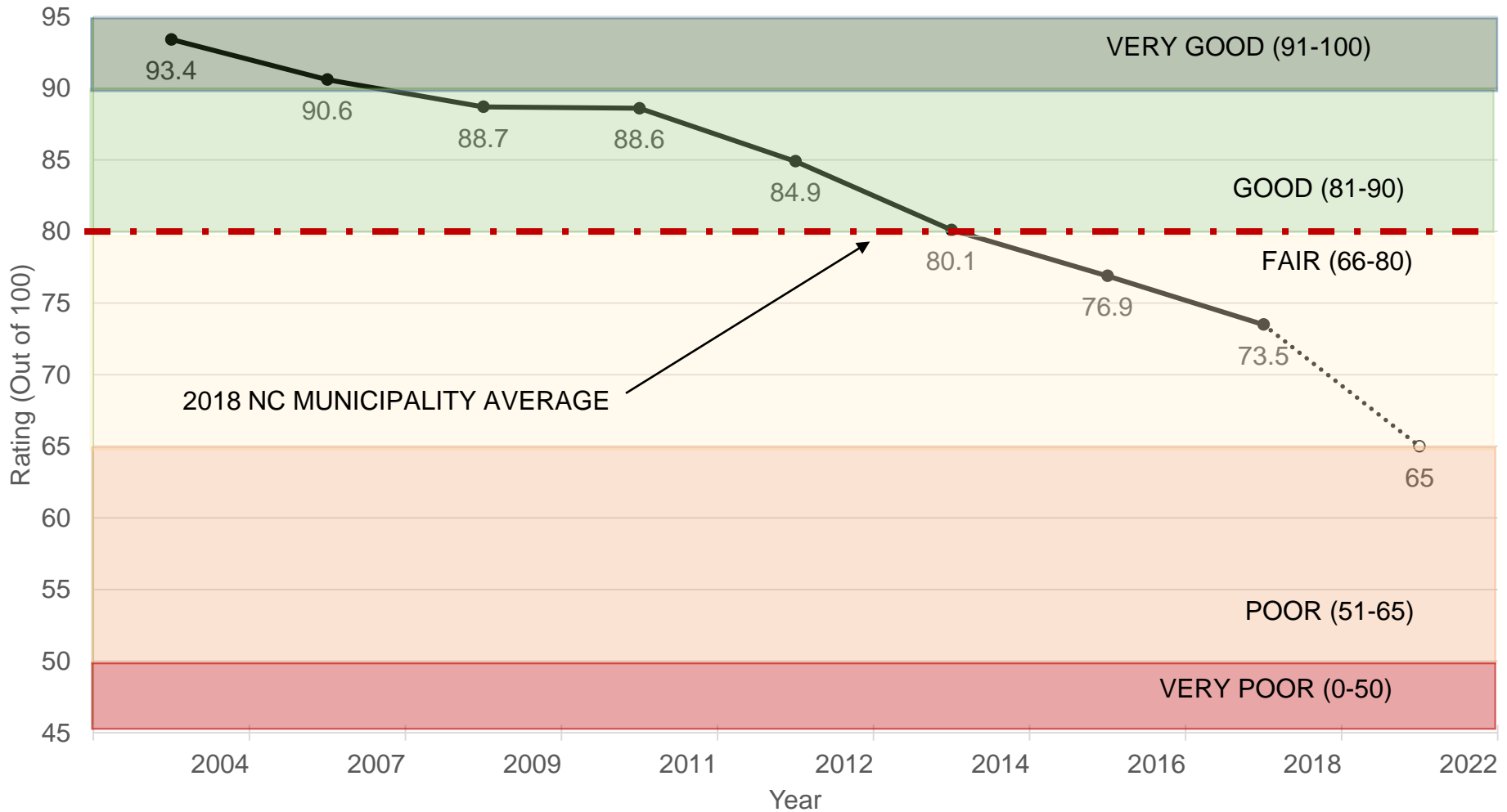
Patching (11.8%)



Ride Quality (6.2%)

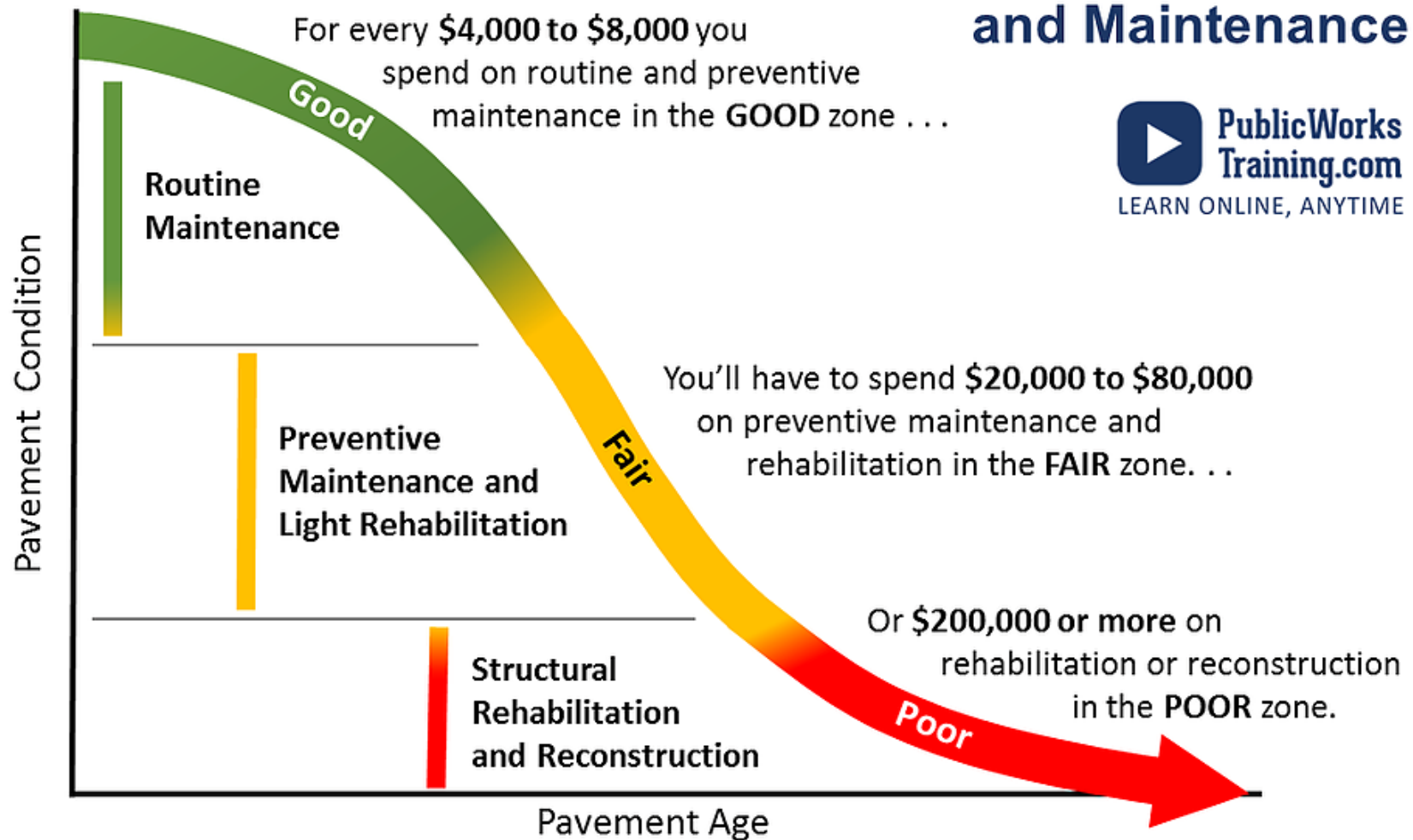


Pavement Condition Evaluation



Pavement Deterioration Curve

Pavement Deterioration and Maintenance



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Review and Approval Process

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Council and Community Interests



Market Street



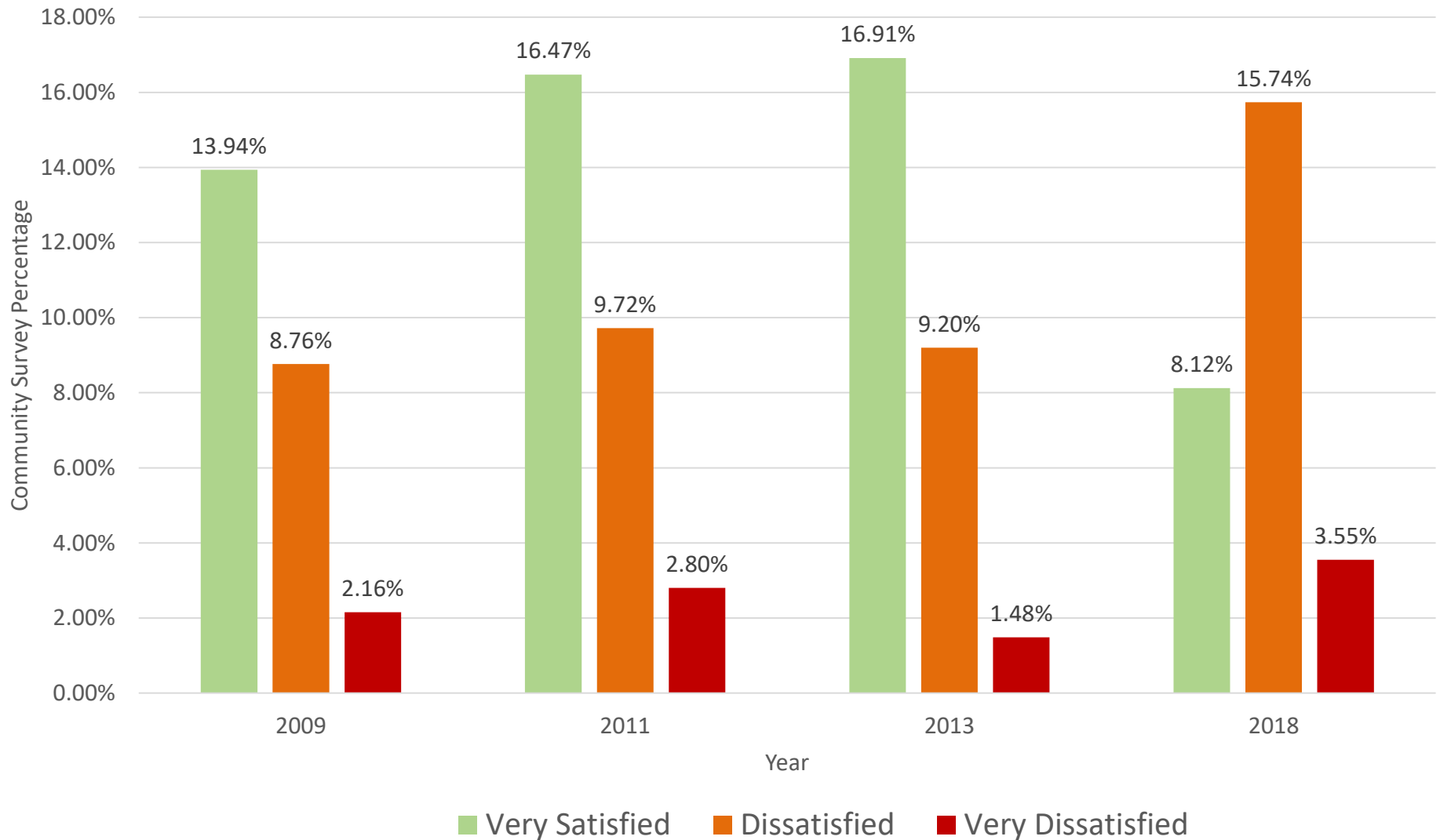
Sage Road



Rosemary Street

Council and Community Interests

Decreasing Satisfaction for Maintenance of Town Streets



Multi-Modal and Collector Streets

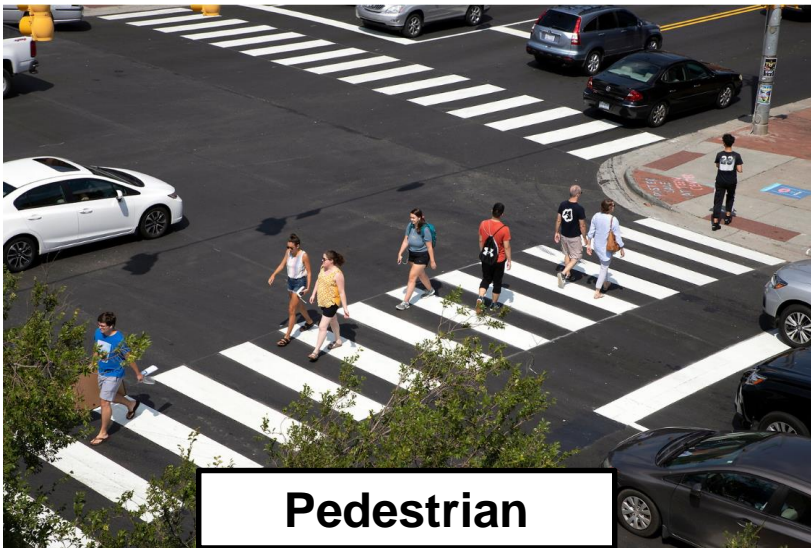
Public Transit



Automobile



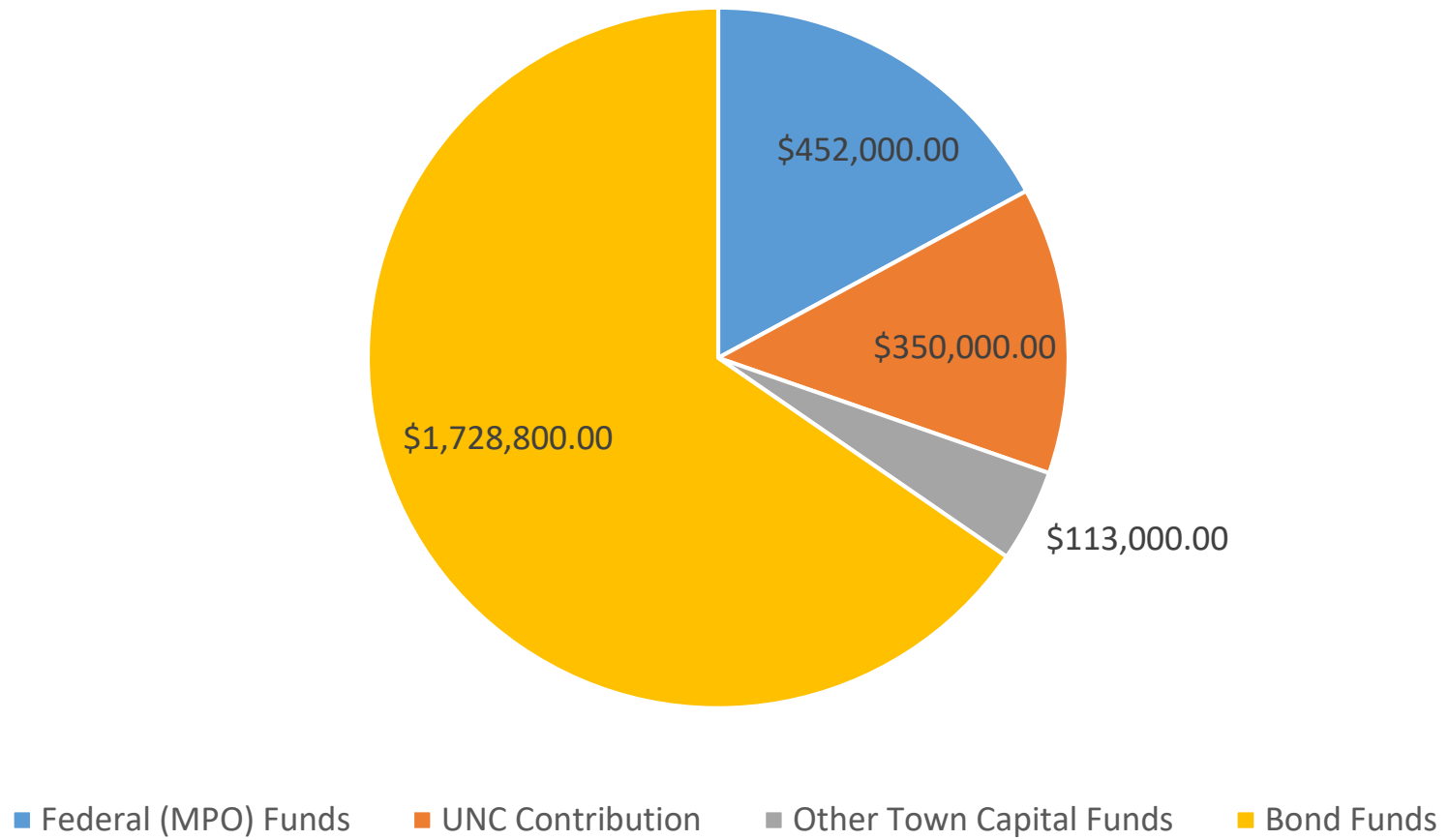
Pedestrian



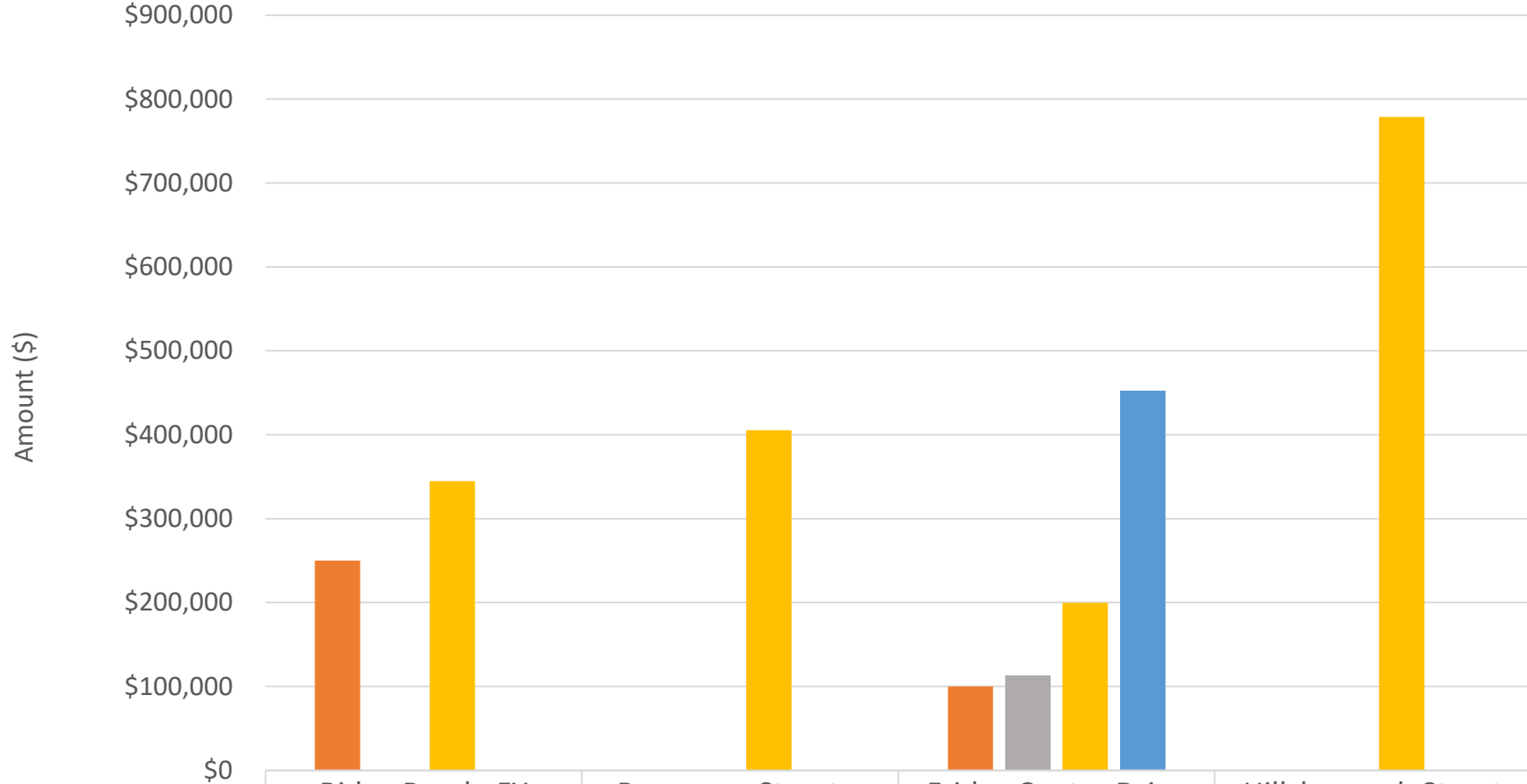
Bicycle



FY 2017-2019 Town of Chapel Hill Street Reconstruction Funds



Town of Chapel Hill Street Reconstruction Funds



UNC Contribution	\$250,000	0	\$100,000	0
Other Town Capital Funds		0	\$113,000	0
Bond Funds	\$344,800	\$405,400	\$199,900	\$778,700
Federal (MPO) Funds	0	0	\$452,000	0

Projects that Leverage Funds

Friday Center Drive: Before



Friday Center Drive: After



Projects that Leverage Funds

Ridge Road – Before



Ridge Road – During



Ridge Road – After



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Coordination with Other Entities



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FY19-20 Proposed Street Resurfacing List

STREET (YEARS SINCE REPAVING)	FROM	TO	RATING		EST. COST
Coleridge Dr. (16)	Sage Rd.	Sage Rd.	38	Very Poor	\$48,995
Dixie Dr. (21)	Dixie Ln	Seminole Dr.	41 – 91*	Very Poor – Very Good	\$57,015
Dixie Dr. (21)	Stateside Dr.	Dixie Ln.	79 – 92*	Fair - Very Good	\$19,140
Elliott Rd. (20)	Franklin St.	Fordham Blvd.	36	Very Poor	\$142,941
Silver Creek Tr. (24)	Weaver Dairy Rd.	Perry Creek Dr.	42	Very Poor	\$65,953
Graham St. (22)	Rosemary St.	Franklin St.	59	Poor	\$20,776
Roberson St. (23)	Rosemary St.	Franklin St.	80	Fair	\$12,342
Summerwalk Cir. (23)	Springberry Ln.	Springberry Ln.	36	Very Poor	\$73,407
Contingency/Contract Patching (Locations TBD) and Pavement Markings					\$72,200
SUBTOTAL					\$440,600
TOTAL (FY 19-20)					\$ 689,600

Multi-Modal

Collector

Streetscape

* Range indicates 2016 – 2018 PCR rating, change related to patching prior to resurfacing.

FY19-20 Proposed Street Resurfacing List

OWASA Coordination Projects

STREET (YEARS SINCE REPAVING)	FROM	TO	RATING		EST. COST
Beech Tree Ct (21)	Kensington Dr.	Cul-de-sac	90*	Good	\$9,100
Concordia Ct. (10)	Kensington Dr.	Cul-de-sac	92*	Very Good	\$13,300
Kensington Dr. (22)	N Lakeshore Dr.	Cul-de-sac	46	Very Poor	\$91,600
Porter Pl. (28)	Wellington Dr.	Cul-de-sac	77	Fair	\$20,500
Wellington Ct. (28)	Wellington Dr.	Cul-de-sac	78	Fair	\$11,500
Wellington Dr. (28)	Kensington Dr.	Cul-de-sac	88	Good	\$30,800
Contingency/Contract Patching (Locations TBD) and Pavement Markings					\$72,200
SUBTOTAL (OWASA Projects FY 2019-2020)					\$176,800
TOTAL (FY 19-20)					\$ 689,600

*OWASA projects will result in a significant decrease in the PCR.

FY20-21 Proposed Street Resurfacing List

STREET (YEARS SINCE REPAVING)	FROM	TO		RATING	EST. COST
Country Club Rd. (12)	Raleigh St.	Gimghoul Rd.	32	Very Poor	\$ 443,100
Country Club Rd. (13)	Gimghoul Rd.	Raleigh Rd.	58	Poor	\$ 131,900
S. Boundary St. (17)	Country Club Rd.	Franklin St.	44	Very Poor	\$ 53,600
N. Boundary St. (22)	Franklin St.	Rosemary St.	0	Very Poor	\$ 17,500
Senlac Rd. (23)	Battle Ln.	Boundary St.	21	Very Poor	\$ 18,200
Hooper Ln. (22)	Battle Ln.	Boundary St.	64	Poor	\$ 16,100
Contingency/Contract Patching (Locations TBD) and Pavement Markings					\$ 9,200
TOTAL (FY 19-20)					\$ 689,600

Collector

Coordination with OWASA

FY21-22 Proposed Street Resurfacing List

STREET (YEARS SINCE REPAVING)	FROM	TO	RATING		EST. COST
Barclay Rd. (19)	MLK Blvd.	End pavement	57*	Poor	\$ 23,200
Barclay Rd. (19)	MLK Blvd.	End pavement	63*	Poor	\$ 23,200
Bolinwood Dr. (22)	MLK Blvd.	Whistling Tree Ct.	54	Poor	\$ 41,400
Bolinwood Dr. (27)	Whistling Tree Ct.	Hillsborough St.	0	Very Poor	\$ 59,600
Burning Tree Dr. (22)	NC 54	Pinehurst Dr.	46	Very Poor	\$ 198,700
Cameron Ave. (19)	Merritt Mill Rd.	Pittsboro St.	27	Very Poor	\$ 213,300
Legion Rd. Ext. (15)	Scarlett Dr.	Cooper St.	39	Very Poor	\$ 22,800
Severin St. (24)	Bradley Rd.	Dead end	0	Very Poor	\$ 34,500
Contingency/Contract Patching (Locations TBD) and Pavement Markings					\$ 72,900
TOTAL (FY 19-20)					\$ 689,600

Multi-Modal

Collector

Coordination with OWASA

*Barclay Road has two entries for the 2 separate lanes, each with a different PCR.

FY22-23 Proposed Street Resurfacing List

STREET (YEARS SINCE REPAVING)	FROM	TO	RATING		EST. COST
Bradley Rd. (15)	Umstead Dr.	Williams Cir.	27	Very Poor	\$ 77,500
Oakwood Dr. (24)	Raleigh Rd.	Cleland Rd.	31	Very Poor	\$ 210,500
Pinehurst Dr. (19)	Burning Tree Dr.	Ephesus Church	41	Very Poor	\$ 341,400
Tenney Circ. (22)	Glenburnie St.	Tenney Cir.	18	Very Poor	\$ 23,300
Contingency/Contract Patching (Locations TBD) and Pavement Markings					\$ 36,900
TOTAL (FY 19-20)					\$ 689,600

Multi-Modal

Collector

Coordination with OWASA

This plan is based on current operating budget only. Additional bond funds may be available upon the next issuance (date currently unknown).

Proposed FY 23-24 Resurfacing List

STREET	FROM	TO	RATING		YEARS SINCE REPAVING
Europa Dr.	Legion Rd.	End maintenance	22	Very Poor	\$ 48,700
Legion Rd.	Ephesus Church Rd.	Scarlett Dr.	16	Very Poor	\$ 228,700
Contingency/Contract Patching (Locations TBD) and Pavement Markings					\$ 412,200*
TOTAL (FY 19-20)					\$ 689,600

Multi-Modal

Coordination with OWASA

*While patching is completed yearly, the primary street maintenance activity for FY23-24 will be patching, totaling approximately \$400,000.

Other Lowest Rated Streets

There are an additional **59** streets rated Very Poor (PCR<50) with an estimated total cost of **\$2M**.

	STREET	FROM	TO	RATING	EST. COST
1.	Fountain Ridge Rd.	Colony Woods Dr.	Pope Rd.	0	\$46,800.00
2.	Nuttree Ln.	Cobble Ridge DR.	Rossburn Way	0	\$24,600.00
3.	Worsham Dr.	Laurens Way	Palafox Dr.	6	\$31,100.00
4.	Francis St.	Ephesus Church Rd.	Cul-de-sac	8	\$33,900.00
5.	Old Barn Ln.	Barbee Chapel Rd. (W)	Sprunt St.	11	\$15,300.00
6.	Ivy Brook Ln.	Cobble Ridge Dr.	Cobble Ridge Dr.	16	\$23,500.00
7.	Lombard Dr.	Mount Carmel Church Rd.	Oak Park Dr.	18	\$20,800.00
8.	Crest Dr.	Merritt Mill Rd.	Johnson St.	19	\$35,900.00
9.	Heather Ct.	Clover Dr.	Circle	19	\$12,700.00
10.	Highgrove Dr.	Cul-de-sac	Parkview Crescent	20	\$63,400.00

Collector

Multi-Modal

Tentative Five Year Resurfacing Map FY 2019 - 2024



Tentative Five Year Resurfacing Map

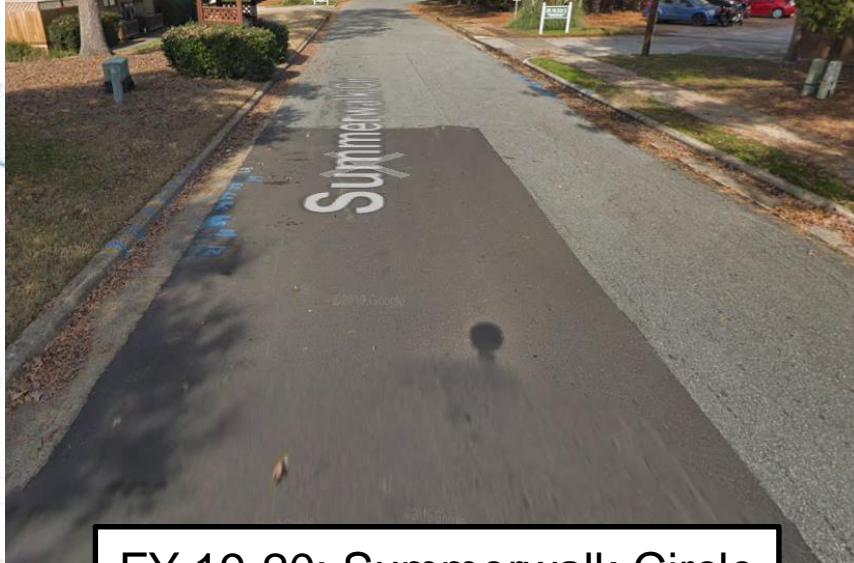
FY 20-21: Country Club Road



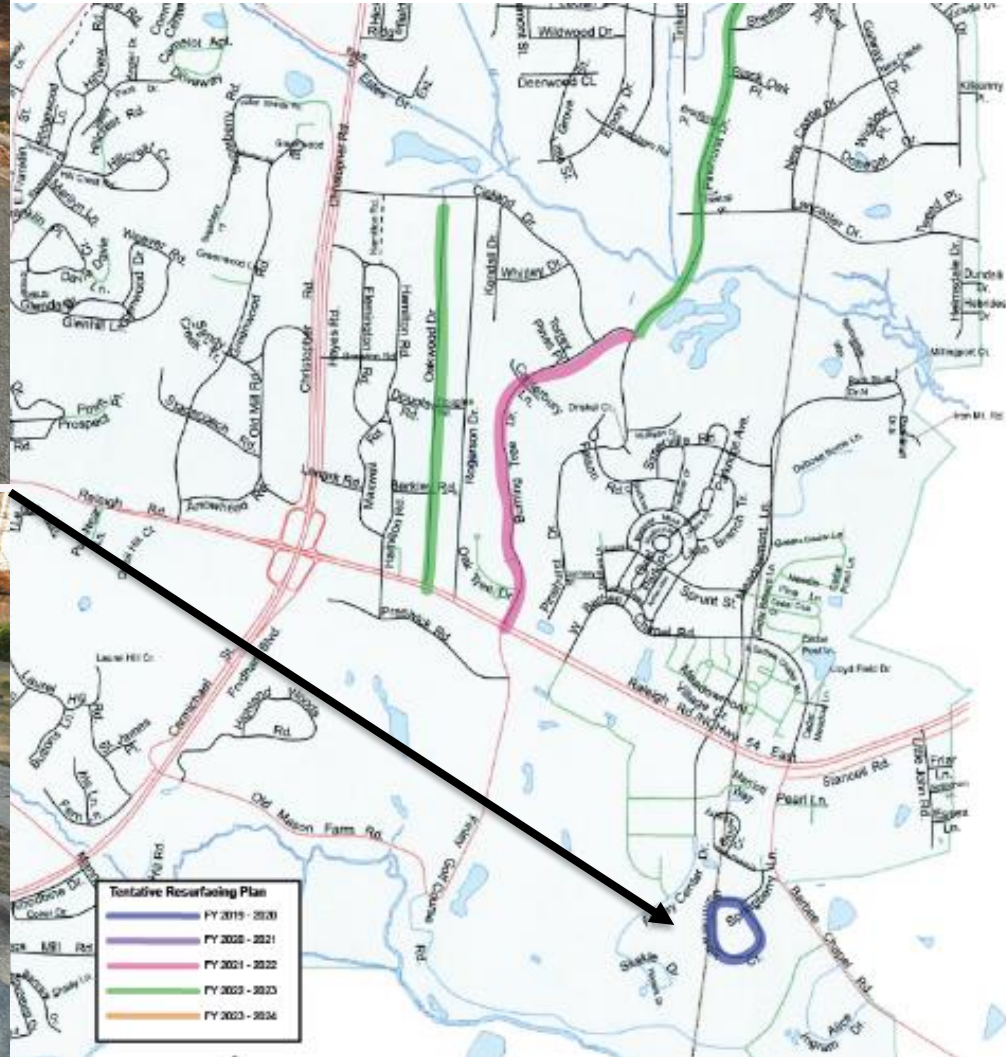
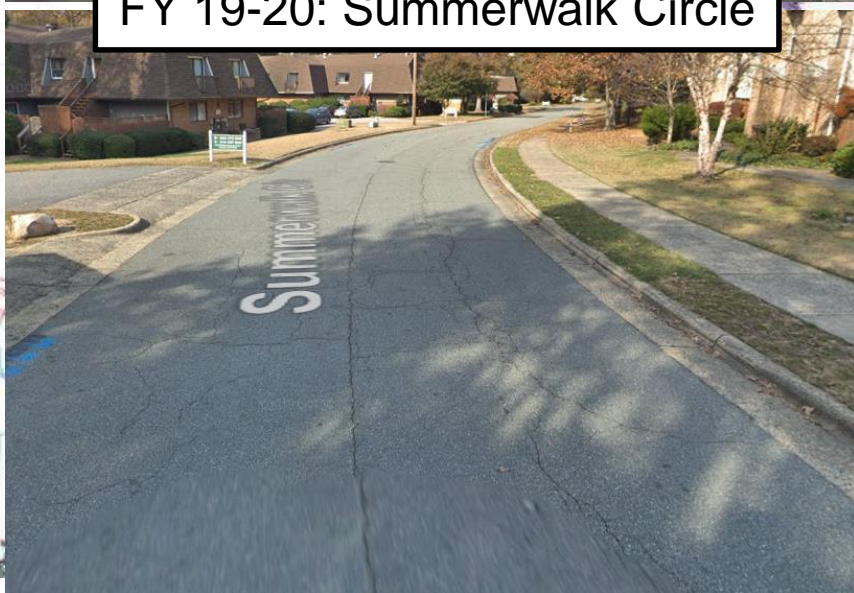
Tentative Resurfacing Plan

- FY 2019 - 2020
- FY 2020 - 2021
- FY 2021 - 2022
- FY 2022 - 2023
- FY 2023 - 2024

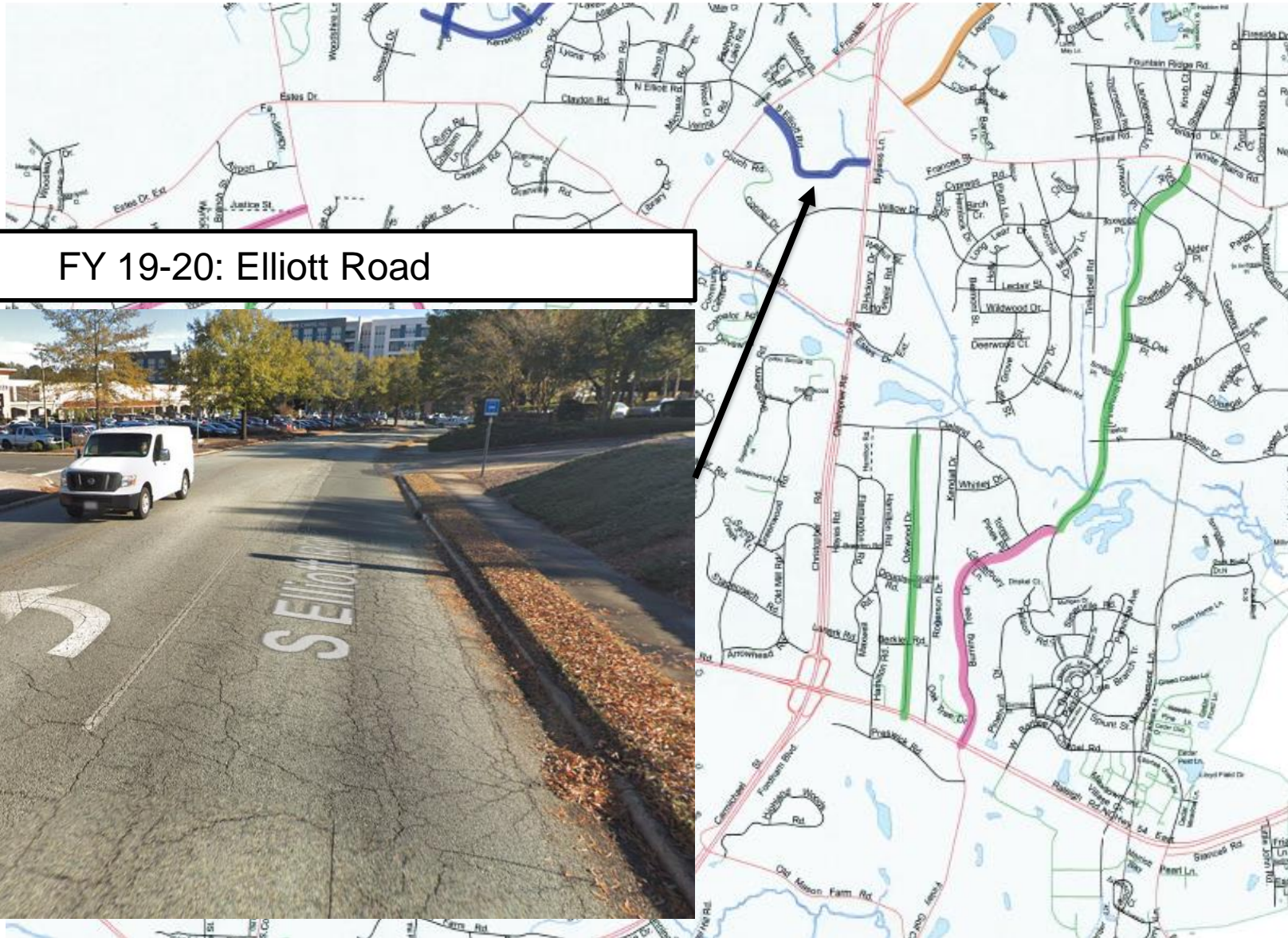
Tentative Five Year Resurfacing Map



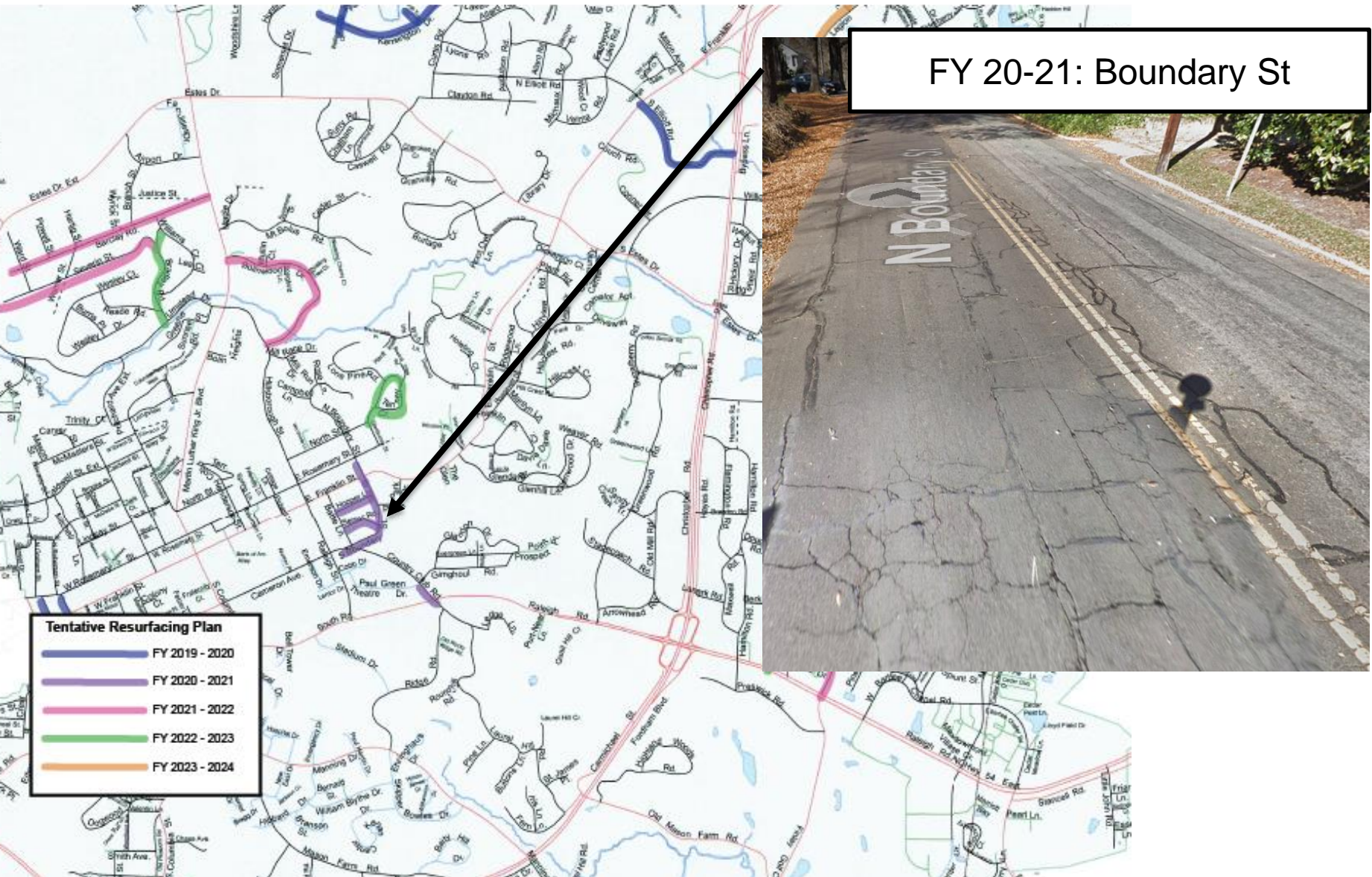
FY 19-20: Summerwalk Circle



Tentative Five Year Resurfacing Map

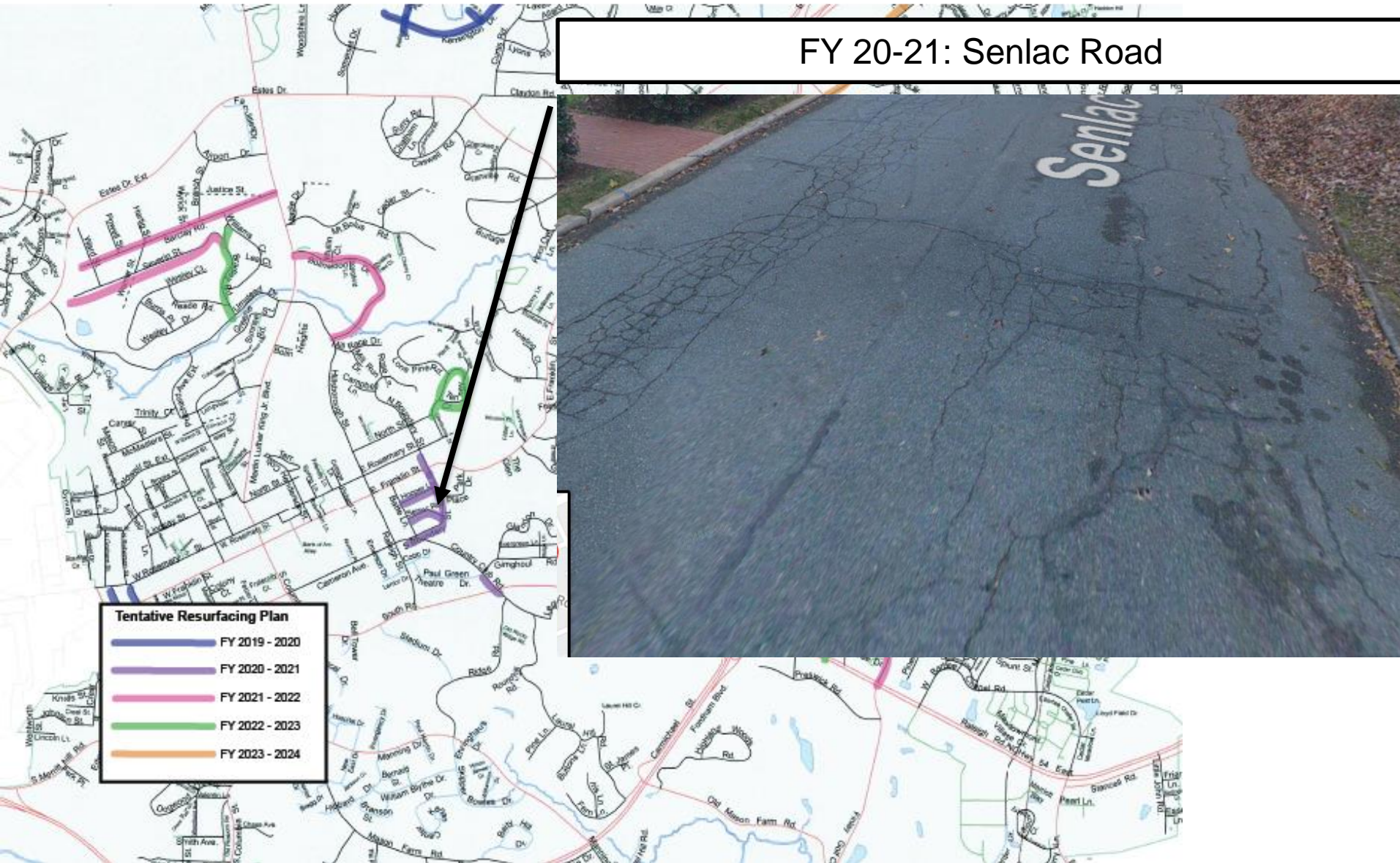


Tentative Five Year Resurfacing Map



Tentative Five Year Resurfacing Map

FY 20-21: Senlac Road



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Questions?



Images of Chapel Hill's Franklin Street - From 1892 to the present.
Courtesy North Carolina Collection and Chris Conway.