

# Mission, Vision & Values



#### **MISSION**

To provide a clean, safe and healthy environment

#### VISION

To become the organizational leader in customer satisfaction by improving communication, assuring organizational alignment and affecting positive change while preserving our national accreditation

#### **VALUES**

- Accountability
- Teamwork
- Respect
- Training
- Communication
- Consistency
- Professional/Organizational Growth

#### **CUSTOMER VALUE PROPOSITION**

The Department of Public Works strives for excellence while providing safe, quality and efficient services in a fiscally responsible manner





 To amend ch. 24 art. I of the City Code by adding therein a new § 24-4 for the purpose of requiring the Department of Public Works to conduct a study of the conditions of all streets, roads and bridges in the city and to provide a report to City Council by no later than February 1, 2019, and by no later than February 1 each year thereafter.

Patron: Councilwoman Larson

Ordinance Resolution Summary

(1) An assessment of the condition of the City's streets in comparison with state and national standards.

- State Code § 33.2-275 -The Department (VDOT) shall determine a quantitative rating on pavement condition for primary and secondary state highway system at least once every five years.
  - City of Richmond's practice is to collect all streets for a Condition
     Assessment every 4 years which is in line with State Code.
- DPW, an accredited APWA Agency, has performed its' Road Condition Assessment in 2010, 2014, and 2018.
- Full report of City Road Condition Assessment is located within the COR Micro Paver Pavement Management System.
  - Average cost to perform Street Condition Assessment \$300,000.00







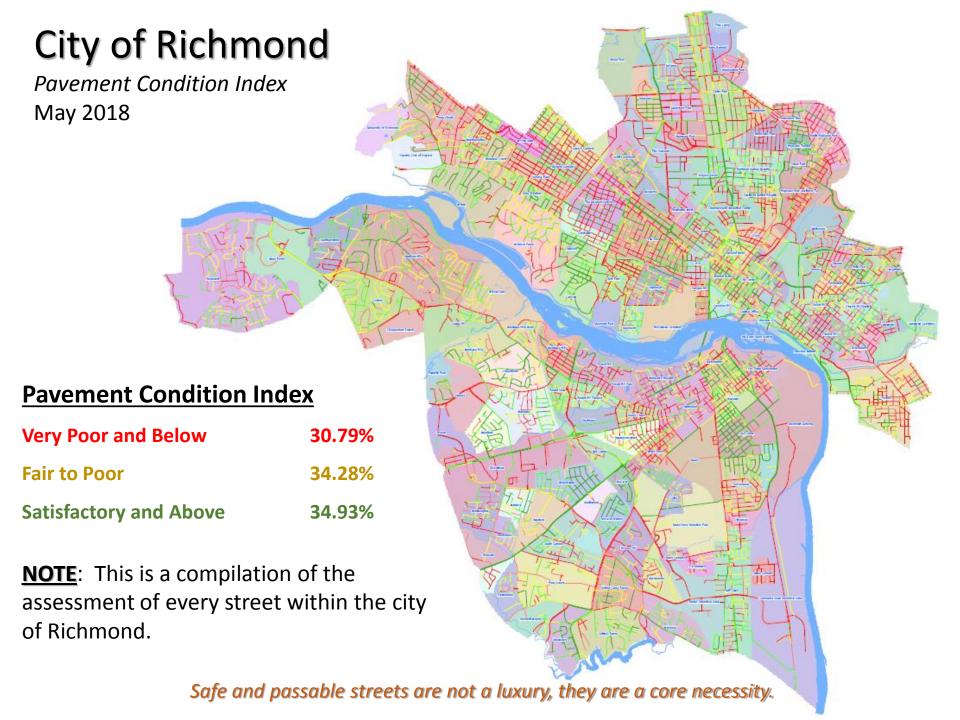
### Street Condition Rating and Goals



- City Goal is to have <u>80%</u> of our Streets to be Good or Better
- The Paving Condition Rating system is as follows
  - 100 to 71 Good or Better
  - 70 to 55 Fair
  - 54 to 0 Poor
- Pavement Condition Index Historical Data
  - <u>2010</u> Conditions Rating <u>34%</u> good & better
    - 66% fair to poor
  - 2014 Condition Rating 53% good & better
    - 47% fair to poor
  - <u>2018</u> Condition Rating <u>35%</u> good & better
    - 65% fair to poor



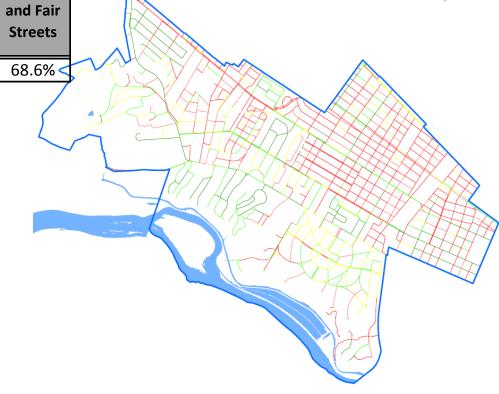
In August and September of 2018, we administered a citizen survey for the City of Richmond. Out of the questions related to the maintenance of the city, **73 percent** of Richmonder's were dissatisfied with the maintenance of our neighborhood streets and sidewalks.



Council		Council District #1 - Far West End													
District			Ро	or			Fa	Good							
Local	194.9	45%	87.16	5,061,782.53	28%	53.76	\$	3,122,168.12	28%	53.93					
Collector	19.7	60%	11.80	\$	913,435.06	10%	1.88	\$	145,236.17	30%	5.90				
Major	26.0	19%	5.03	\$	454,745.49	44%	11.50	\$	1,038,914.93	36%	9.47				
Minor	46.9	25%	25% 11.67 \$ 1,054,599.21		31%	14.30	\$	1,292,297.14	45%	20.92					
			Lane						_	_					

Council District	Total Lane Miles	% Lane Miles of City	Lane Miles of Poor and Fair	Cost to Repair Poor and Fair Streets	% of Poor and Fair Streets
1	287.41	12.3%	197.10	\$ 13,083,178.65	68.6% <

Condition Category	MLM	% of Cond	ition of City
Failed	2.05	0.71%	
Serious	56.76	19.75%	40.24%
Very Poor	56.85	19.78%	
Poor	42.35	14.74%	28.33%
Fair	39.08	13.60%	26.33 %
Satisfactory	44.22	15.39%	31.42%
Good	46.09	16.04%	31.42 /0
Total Area	287.41		



\$ 10,350,758.71

Council District #2

Miles

220.49

City

9.5%

Fair

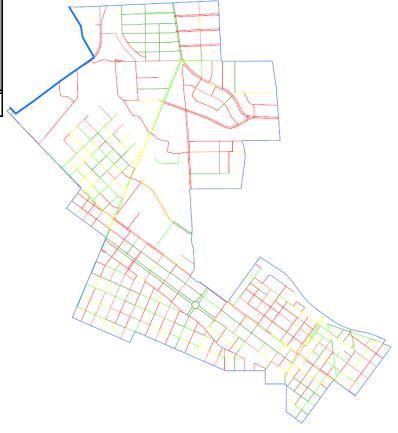
142.23

Council		Council District #2 - North Central												
District			Po	or			Fa		Good					
Local	114.1	37%	42.70	\$	2,479,678.88	26%	30.14	\$	1,750,283.62	36%	41.24			
Collector	20.1	25%	5.00	\$	386,943.51	33%	6.52	\$	504,844.00	43%	8.55			
Major	38.8	19%	7.20	\$	650,546.96	51%	19.72	\$	1,781,109.15	31%	11.92			
Minor	47.5	37%	17.39	\$	1,571,256.97	29%	13.57	\$	1,226,095.61	35%	16.56			
Council	Total Lane	% Lane Miles of	Lane Miles of		st to Repair Poor nd Fair Streets	% of Poor and Fair		7						

**Streets** 

64.5%

Condition Category	MLM	% of Cond	ition of City
Failed	3.43	1.56%	
Serious	30.25	13.72%	32.78%
Very Poor	38.60	17.51%	
Poor	35.22	15.97%	31.72%
Fair	34.73	15.75%	31.72%
Satisfactory	38.66	17.53%	35.49%
Good	39.59	17.96%	33.49 /
Total Area	220.49		



Council District #3

Miles

235.98

3

of City

10.1%

Council			Council District #3 - Northside													
District				Poor				Good								
Local	149.1	41%	60.93	\$	3,538,726.86	37%	55.40	\$	3,217,575.28	22%	32.72					
Collector	27.3	39%	10.77	\$	833,950.41	30%	8.27	\$	640,165.89	30%	8.28					
Major	44.0	11%	4.90	\$	442,322.29	43%	18.74	\$	1,693,383.01	46%	20.35					
Minor	15.6	19%	2.98	\$	269,387.02	38%	5.90	\$	532,988.35	43%	6.74					
Council District	Total Lane	% Lane Miles	Lane Miles of Poor and		st to Repair Poor and Fair Streets	% of Poor and Fair	7									

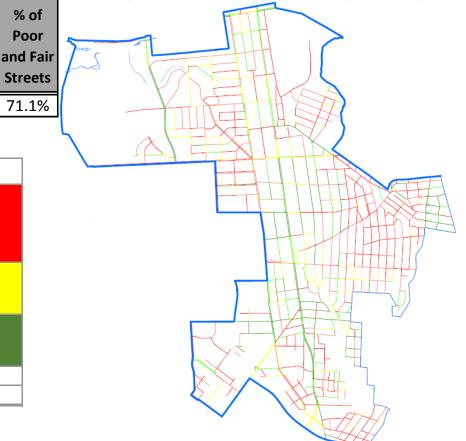
11,168,499.09

**Condition Category** % of Condition of City MLM Failed 0.41 0.17% 33.72% 28.94 12.26% Serious Very Poor 50.23 21.29% 52.93 22.43% Poor 37.42% Fair 35.38 14.99% Satisfactory 29.35 12.44% 28.86% 38.75 16.42% Good Total Area 235.98

Fair

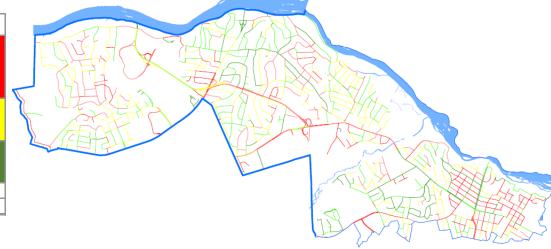
167.89

\$ '



Council					Counci	Distric	t #4 - Sou	ıthv	vest				
District				Poor	•		Fair				Good		
Local	196.7	18%	34.48	\$	2,002,277.23	46%	89.72	\$	5,210,718.04	37%	72.49		
Collector	38.9	13%	5.15	\$	398,714.09	47%	18.23	\$	1,411,297.43	40%	15.49		
Major	31.1	29%	8.95	\$	808,154.81	47%	14.51	\$	1,310,832.16	24%	7.59		
Minor	41.2	46%	19.10	\$	1,725,235.34	24%	9.91	\$	895,007.71	30%	12.21		
Council District	Total Lane Miles	% Lane Miles of City	Miles of Poor and		ost to Repair Poor and Fair Streets	% of Poor and Fair Streets							
4	307.79	13.2%	200.03	\$	13,762,236.81	65.0%							

Condition Category	MLM	% of Cond	lition of City
Failed	0.15	0.05%	
Serious	29.40	9.55%	21.98%
Very Poor	38.11	12.38%	]
Poor	57.19	18.58%	43.00%
Fair	75.17	24.42%	43.00 %
Satisfactory	69.30	22.51%	35.02%
Good	38.48	12.50%	35.02 %
Total Area	307.79		



Council		Council District #5 - Central and South Central												
District			Pod	r		Fair			Good					
Local	155.8	32%	50.27	\$	2,919,762.17	38%	59.56	\$	3,459,185.06	30%	46.00			
Collector	18.1	37%	6.77	\$	524,493.85	48%	8.68	\$	672,525.16	15%	2.66			
Major	3.7	24%	0.87	\$	78,728.17	10%	0.35	\$	31,511.11	67%	2.44			
Minor	21.3	36%	7.63	\$	689,196.53	32%	6.81	\$	615,285.48	32%	6.81			
Council	Total Lane Miles	% Lane Miles of	Lane Miles of Poor and		Cost to Repair Poor and Fair	% of Poor and Fair				<del>M</del>	_			

Council District	Total Lane Miles	% Lane Miles of City	Lane Miles of Poor and Fair	Cost to Repair Poor and Fair Streets	% of Poor and Fair Streets
5	198.87	8.5%	140.95	\$ 8,990,687.54	70.9%

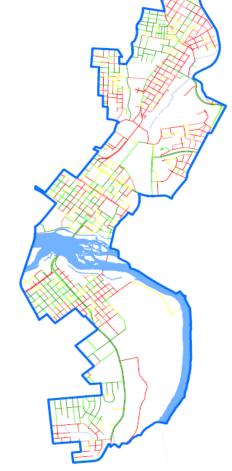
Condition Category	MLM	% of Cond	ition of City
Failed	0.88	0.38%	
Serious	25.92	11.18%	31.66%
Very Poor	46.58	20.09%	
Poor	43.31	18.69%	22.000/
Fair	35.23	15.20%	33.88%
Satisfactory	38.92	16.79%	34.46%
Good	40.95	17.67%	34.40%
Area total	231.80		



Council District #6

Council				Council District #6 - Northeast, Central and Southeast									
District			Po	or									
Local	156.9	31%	49.26	\$	2,860,709.24	33%	51.59	\$	2,996,456.27				
Collector	44.6	32%	14.12	\$	1,093,478.71	31%	13.61	\$	1,054,142.46				
Major	33.9	22%	7.51	\$	678,164.42	21%	7.24	\$	653,977.07				
Minor	53.8	12%	6.20	\$	559,709.89	25%	13.40	\$	1,210,761.32				
Council District	Total Lane Miles	% Lane Miles of City	Lane Miles of Poor and Fair		ost to Repair Poor and Fair Streets	% of Poor and Fair Streets							
6	289.10	12.4%	162.93	\$	11,107,399.38	56.4%							

Condition Category	MLM	% of Condition of City		
Failed	1.62	0.56%		
Serious	26.10	9.03%	26.66%	
Very Poor	49.38	17.08%		
Poor	42.07	14.55%	29.69%	
Fair	43.78	15.14%	29.09%	
Satisfactory	50.06	17.31%	43.64%	
Good	76.11	26.33%	43.04 %	
Total Area	289.11			



Good

56.00

16.83

19.14

34.18

36%

38%

56%

64%

\$ 11,763,263.35

Council District #7

Miles

251.60

7

City

10.8%

Council					Coun	cil District #7 - East End					
District			Po	or			Fa	ir		G	ood
Local	173.9	38%	66.89	\$	3,884,642.12	40%	69.22	\$	4,019,953.28	22%	37.76
Collector	28.8	18%	5.29	\$	409,822.05	25%	7.25	\$	561,748.47	56%	16.26
Major	8.7	32%	2.77	\$	249,861.58	37%	3.23	\$	291,844.59	31%	2.67
Minor	40.3	36%	14.58	\$	1,317,418.99	28%	11.38	\$	1,027,972.26	36%	14.29
Council District	Total Lane	% Lane Miles of	Lane Miles of Poor and		st to Repair Poor nd Fair Streets	% of Poor and Fair					

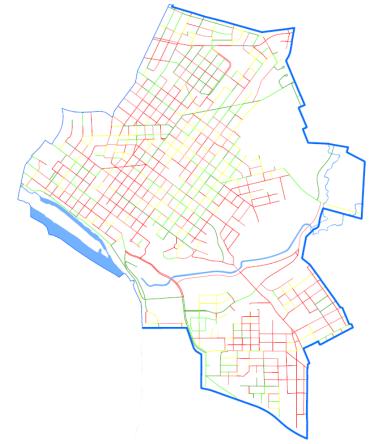
**Streets** 

71.8%

Condition Category	MLM	% of Condition of City		
Failed	3.06	1.22%		
Serious	38.03	15.11%	35.58%	
Very Poor	48.43	19.25%		
Poor	50.56	20.10%	36.20%	
Fair	40.52	16.10%	30.20 %	
Satisfactory	39.34	15.64%	20 220/	
Good	31.65	12.58%	28.22%	
Total Area	251.59			

Fair

180.61



**Streets** 

232.78 \$ 17,210,706.82

Council District #8

Miles

8

371.17

City

15.9%

Council					Counc	cil Distric	t #8 - Sou	the	ast		
District			Pod	or			Fai	r		G	ood
Local	198.0	23%	45.87	\$	2,664,240.73	34%	66.41	\$	3,856,652.32	43%	85.71
Collector	26.1	39%	10.16	\$	786,802.42	19%	5.08	\$	393,401.21	42%	10.88
Major	69.4	25%	17.40	\$	1,571,543.18	33%	22.72	\$	2,052,154.67	42%	29.25
Minor	77.7	49%	38.36	\$	3,465,563.39	34%	26.79	\$	2,420,348.91	16%	12.56
Council District	Total Lane	% Lane Miles of	Lane Miles of Poor and		Cost to Repair Poor and Fair	% of Poor and Fair		$\wedge$			

**Streets** 

62.7%

Condition Category	MLM	% of Cond	ition of City	
Failed	1.82	0.49%		
Serious	40.37	10.88%	30.12%	
Very Poor	69.59	18.75%		
Poor	65.10	17.54%	32.60%	
Fair	55.89	15.06%	32.00%	
Satisfactory	70.73	19.05%	27.200/	
Good	67.67	18.23%	37.29%	
Total Area	371.18			

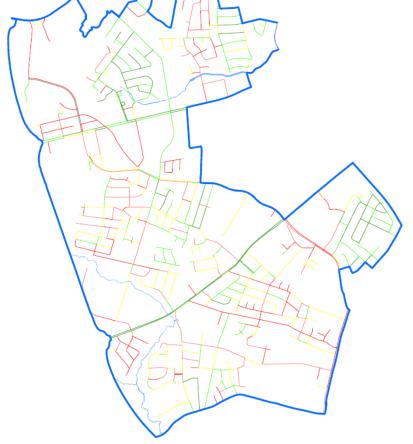
**Fair** 



Council			Council District #9 - Southwest								
District		Poor				Fai	r		G	ood	
Local	107.1	24%	25.98	\$	1,508,900.57	43%	46.03	\$	2,673,371.43	33%	35.04
Collector	12.4	23%	2.84	\$	219,861.32	57%	7.00	\$	542,337.35	20%	2.51
Major	24.4	14%	3.52	\$	318,387.61	8%	2.02	\$	182,156.57	77%	18.90
Minor	23.1	36%	8.26	\$	745,858.13	25%	5.85	\$	528,611.82	39%	9.00
Council	Total Lane	% Lane Miles of	Lane Miles of		Cost to Repair Poor and Fair	% of Poor and Fair			2/2		107

District	Lane Miles	Miles of City	Poor and Fair	Poor and Fair Streets	and Fair Streets
9	166.94	7.2%	101.50	\$ 6,719,484.81	60.8%

Condition Category	MLM	% of Condi	ition of City	
Failed	1.64	0.98%		
Serious	18.40	11.02%	24.32%	
Very Poor	20.56	12.31%		
Poor	29.50	17.67%	36.48%	
Fair	31.41	18.81%	30.46 //	
Satisfactory	38.17	22.86%	20.20%	
Good	27.27	16.34%	39.20%	
Total Area	166.95			



#### Investment into RVA Neighborhoods

Council District	Total Lane Miles	% Lane Miles of City	Lane Miles of Poor and Fair	Cost to Repair Poor and Fair Streets		% of Poor and Fair Streets
1	287.41	12.3%	197.10	\$	13,083,178.65	68.6%
2	220.49	9.5%	142.23	\$	10,350,758.71	64.5%
3	235.98	10.1%	167.89	\$	11,168,499.09	71.1%
4	307.79	13.2%	200.03	\$	13,762,236.81	65.0%
5	198.87	8.5%	140.95	\$	8,990,687.54	70.9%
6	289.10	12.4%	162.93	\$	11,107,399.38	56.4%
7	251.60	10.8%	180.61	\$	11,763,263.35	71.8%
8	371.17	15.9%	232.78	\$	17,210,706.82	62.7%
9	166.94	7.2%	101.50	\$	6,719,484.81	60.8%
Total	2,329.35	100.0%	1,526.03	\$	104,156,215.15	

















#### **Richmond Street Maintenance Priorities**

The Streets within the Paving Program are selected utilizing the following criteria:

- Street Condition Rating
  - •PCI Rating from Street Pavement Assessment
- •The above criteria is adjusted by the following:
  - Major Utility Project
    - •Resulting in multiple cuts/patches both lateral and longitudinal
  - Economic Development Projects
    - Major New Building or Renovation
    - Neighborhood Enhancement Project
  - Major Events within the public right of way

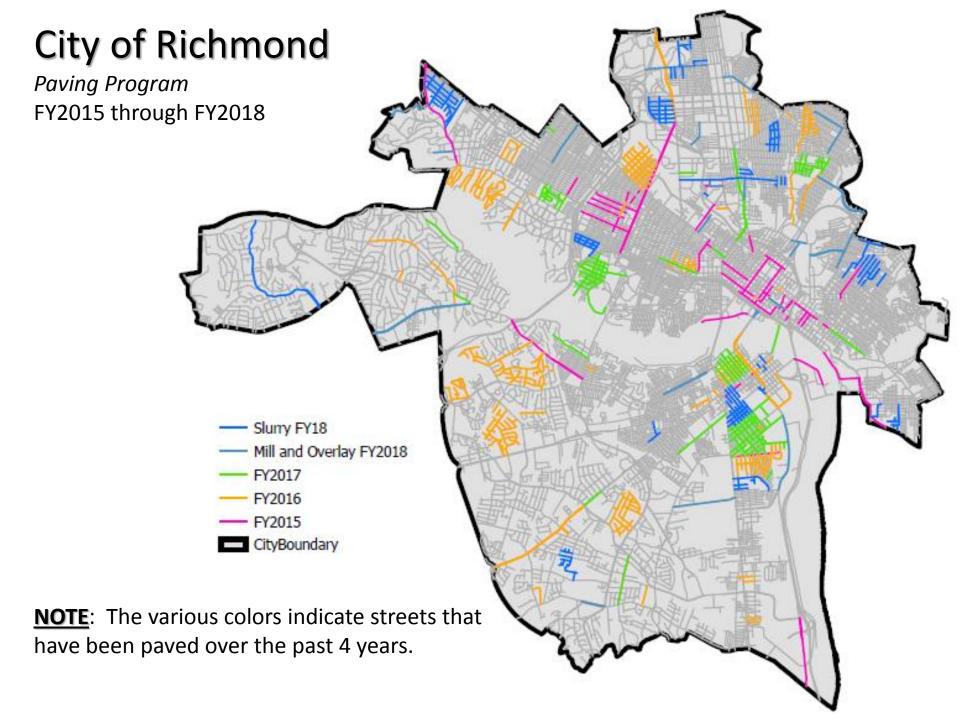












Ordinance Resolution Summary

(2) An assessment of the adequacy of the City's streets to handle the current and projected volume of traffic in comparison with state and national standards.

The 2013 Richmond **Strategic Multimodal Transportation Plan** describes actions and plans that Richmond will take over the next twenty years to improve transportation within the City. Some guiding principles include all modes of travel (vehicle, pedestrian and bicycle), safety and operations, system preservation, complete streets and sustainable transportation. The Plan also defines the strategies that the City will use to support the guiding principles. **Twenty (20) year cycle is the typical standard. Some cities have 10 year cycles**. Either way, the City of Richmond's SMTP is well within these guidelines.

#### (3) A prioritized list of paving needs and repairs and the projected costs there of arranged by Council District.

\$21.8M annual need and we have been receiving \$1.5 – 6.0 M (Also indicated in previous slides, the paving needs, per district, per neighborhood, per street)

Street Classification	Square Yards of Asphalt	Maintenance Interval Years Square yards		%		t to Maintain r square yard
Local	9,792,352.50	5	1,958,470.50	20%	\$7.00	\$13,709,293.50
Collector	1,443,246.90	7	206,178.10	14%	\$9.00	\$1,855,602.90
Arterial	4,519,339.70	10	451,934.00	10%	\$14.00	\$6,327,076.00
Totals	15,754,939.10	SqYds	2,616,582.60	Lane Miles	405.5	\$21,891,972.40

Ordinance Resolution Summary

#### (4) An estimate of the cost of remediation for any identified deficiencies.

\$277M in accordance to City Audit and DPW report

**Funding** 

The roadway maintenance function is not adequately funded to maintain and preserve the roadway infrastructure and address the pavements that need to be rehabiliated or reconstructed as depicted in the following table:



A total of at least \$277 million is needed to bring the Richmond roads to good conditions.

Pavement Condition	Rating Scale	Treatment	# of Lane Miles	Total Funding Needed
Excellent	100-91	-	121	-
Good	90-71	Slurry seal	497	\$ 12,828,564
Fair	70-51	Milling/Overlay	657	\$ 46,635,831
Poor	50-21	Reconstruction	492	\$ 190,492,560
Very Poor	20-0	Reconstruction	69	\$ 26,715,420
Total			1836	\$ 276,672,375



Source: DPW and the 2010 pavement assessment







Ordinance Resolution Summary

(5) A plan of action for addressing such deficiencies including estimates of funding required from City, state, federal, and other sources, and recommendations for policy changes as Appropriate.



Cost of Maintenar	% of City	
Arterials	4,519,339.70	
\$ 14.00	\$ per SY	299
30,536.1	Est. SY	\$ 427,505.11
Collectors	1,443,246.90	
\$ 9.00	\$ per SY	99
9,751.7	Est. SY	\$ 87,765.01
Locals		9,792,352.50
\$ 7.00	\$ per SY	629
66,164.5	Est. SY	\$ 463,151.81

Description	Quantity	
Total City SY	15,754,939.10	
Total City Neighborhoods	148	
Est. SY per Neighborhood	106,452.29	

Total est/neighborhood	\$	978,421.93
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Total Cost to Pave Today \$ 144,806,445.64

#### NOTE:

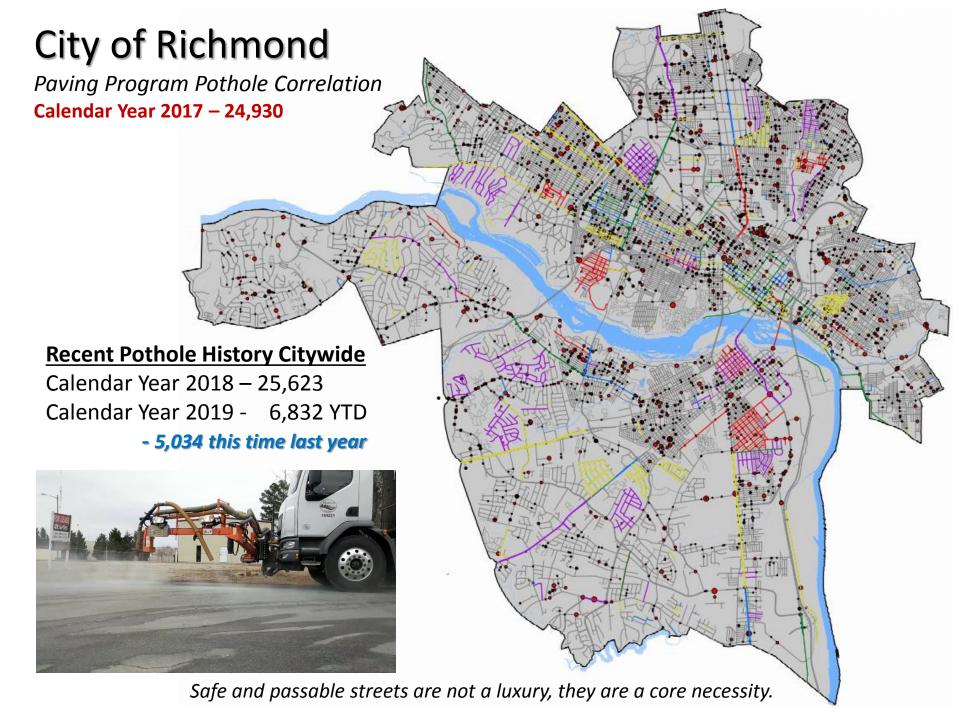
At a rate of \$10M per year, it would take 14 years to pave the city once.

#### **Industry Standards**

After 5-7 years, you would need to redo the local streets

After 7-10 years the collector streets.

After 10 years, the arterials.



#### In Summary...

- ✓ No need for an Ordinance of this nature.
- ✓ As indicated within this presentation, the City of Richmond is aware of the deficiencies of its' infrastructure.
- ✓ Funding is required to PAVE.
- ✓ Funding is required to REMEDIATE THE PROBLEMS within our public right of way.
- ✓ Funding is required to IMPROVE THE SAFETY of our roadway network.

