

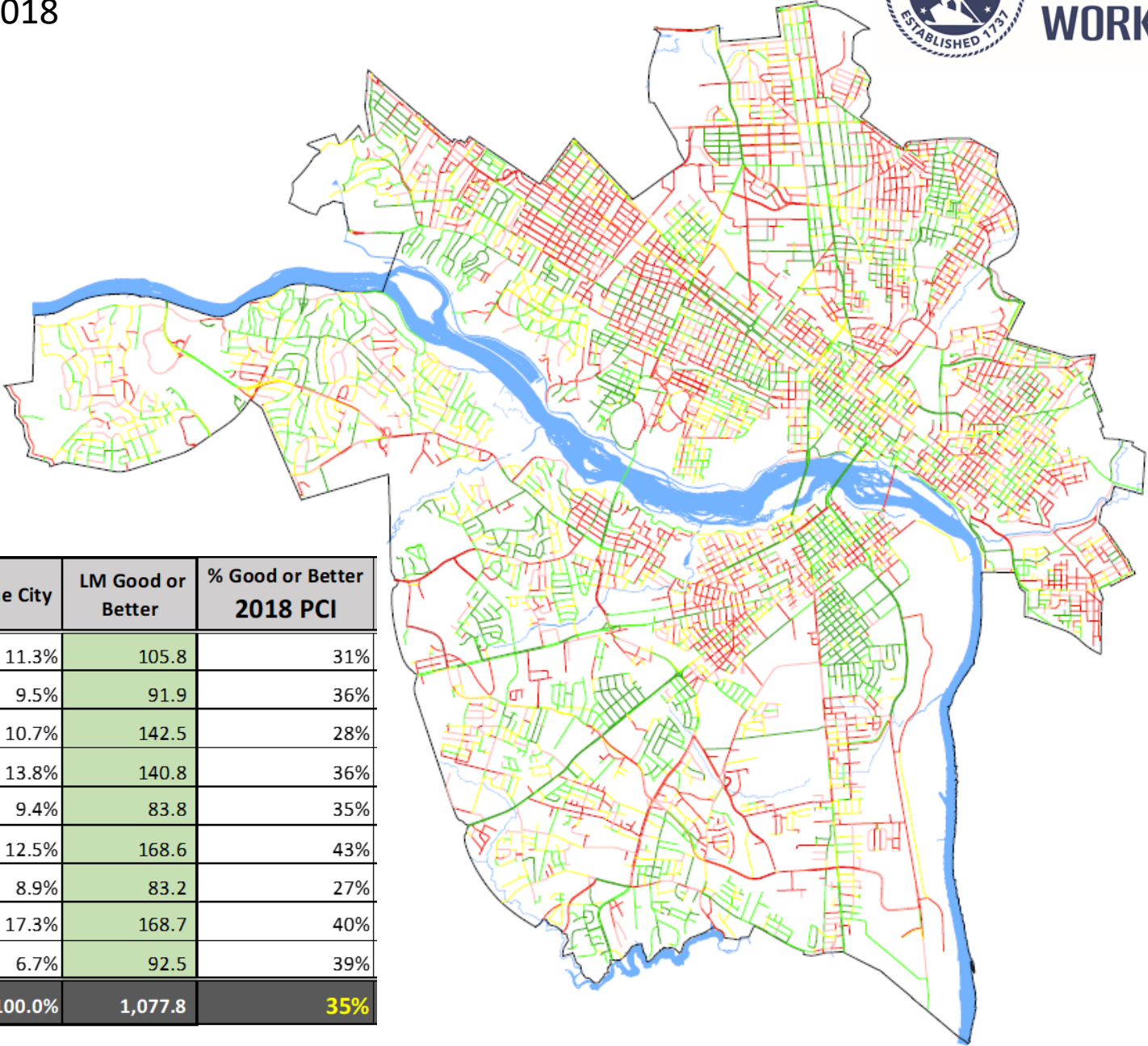
1st District Windsor Farms Meeting

Paving Condition Index (PCI)

City of Richmond 2018



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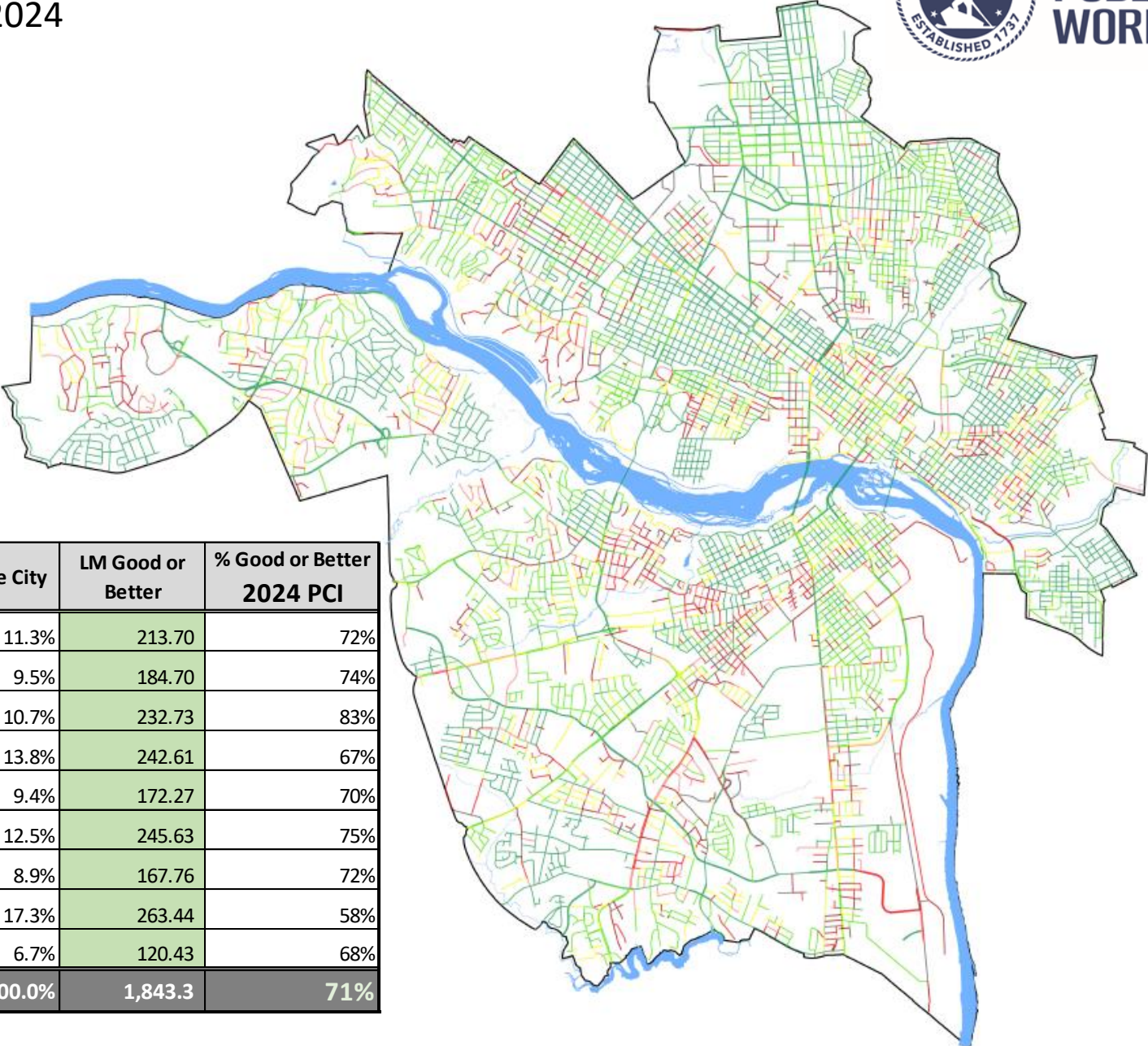
CD	Lane Miles	% of the City	LM Good or Better	% Good or Better 2018 PCI
1	296.8	11.3%	105.8	31%
2	249.6	9.5%	91.9	36%
3	280.4	10.7%	142.5	28%
4	362.1	13.8%	140.8	36%
5	246.1	9.4%	83.8	35%
6	327.5	12.5%	168.6	43%
7	233.0	8.9%	83.2	27%
8	454.2	17.3%	168.7	40%
9	177.1	6.7%	92.5	39%
Totals	2,626.8	100.0%	1,077.8	35%

Paving Condition Index (PCI)

City of Richmond 2024



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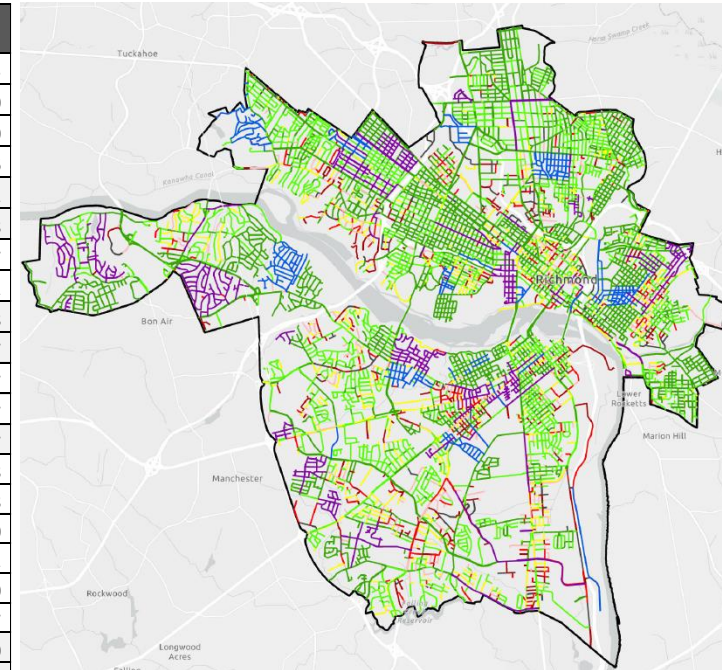
CD	Lane Miles	% of the City	LM Good or Better	% Good or Better 2024 PCI
1	296.8	11.3%	213.70	72%
2	249.6	9.5%	184.70	74%
3	280.4	10.7%	232.73	83%
4	362.1	13.8%	242.61	67%
5	246.1	9.4%	172.27	70%
6	327.5	12.5%	245.63	75%
7	233.0	8.9%	167.76	72%
8	454.2	17.3%	263.44	58%
9	177.1	6.7%	120.43	68%
Totals	2,626.8	100.0%	1,843.3	71%

Paving Program FY2025



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CD	FACILITY NAME	FROM	TO	SY	MLM	Unit Cost	Total
1	U of R Area	Boatwright Dr	Three Chopt Road	62,261.7	9.6	\$13.10	\$ 815,770.83
1	Winsor Farms	Portland Place	Canterbury	60,000.0	9.3	\$12.50	\$ 750,000.00
1	Westmoreland Place	Cary Street	Charmian	20,000.0	3.1	\$17.00	\$ 340,000.00
1	Willow Lawn Area	Park Avenue	Willow Lawn Drive	49,794.4	7.7	\$12.50	\$ 622,430.56
2	Diamond Area	Seddon Way	Rosedale	43,046.9	6.7	\$12.50	\$ 538,086.11
2	W Franklin	Belvidere	N Harrison St	8,982.2	1.4	\$17.00	\$ 152,697.78
3	Leigh Street	N Lombardy St	Arthur Ashe Blvd	34,954.3	5.4	\$17.00	\$ 594,223.67
3	N. Barton Heights	Hawthorne Avenue	North Avenue	86,850.6	13.5	\$9.75	\$ 846,792.92
4	Stratford Hills Area	Hathaway Road	Riverside Drive	87,579.2	13.6	\$12.50	\$ 1,094,740.28
4	Forest Hill Terrace	W. 48th Street	Forest Hill Avenue	64,716.2	10.0	\$9.75	\$ 630,983.17
5	Byrd Park Area	Meadow Street	Appomattox Street	31,897.3	4.9	\$12.50	\$ 398,716.67
5	Gamble Hill	Belvidere	Byrd Street	29,155.3	4.5	\$12.50	\$ 364,441.67
6	Hull Street	Richmond Highway	Commerce Rd	12,573.3	1.9	\$17.00	\$ 213,746.67
7	N 25th St	M St	Dead End	16,420.2	2.5	\$17.00	\$ 279,143.78
7	Jefferson Ave	N25th St	E Marshall St	7,902.2	1.2	\$4.10	\$ 134,337.78
7	Oliver Hill Way	Broad St	Hospital	32,800.0	5.1	\$36.87	\$ 656,000.00
7	18th St	Broad St	Oliver Hill Way	17,791.1	2.8	\$24.51	\$ 355,822.22
7	N 14th Street	Broad St	Dock	14,520.0	2.3	\$20.00	\$ 290,400.00
7	Union Hill	Cedar Street	N. 25th Street	78,908.2	12.2	\$9.75	\$ 769,355.17
8	Holly Spring Ave	N Hopkins	Stockton St	10,484.0	1.6	\$17.00	\$ 178,228.00
8	E Broad Rock Rd	Lawson	Decatur	3,568.0	0.6	\$17.00	\$ 60,656.00
8	E Clopton	Maury St	Bainbridge St	9,818.0	1.5	\$17.00	\$ 166,913.56
8	Jeff-Davis Neighborhood	Richmond Hwy E/W	Bellmeade-Walmsley	150,000.0	23.2	\$12.50	\$ 1,875,000.00
8	Deep Water Terminal Road	Port of Richmond	Dead End	49,660.4	7.7	\$20.00	\$ 993,208.89
8	Belt Blvd	Broadrock	Twyman Road	40,000.0	6.2	\$17.00	\$ 680,000.00
8	McGuire Area	McGuire Drive	E. Broad Rock Blvd	46,525.0	7.2	\$9.75	\$ 453,599.25
9	South Garden	Broad Rock - Orcutt	Hull St - Bryce Lane	20,000.0	3.1	\$9.75	\$ 453,599.25
9	E German School Rd	Midlothian	Warwick Rd	17,667.0	2.7	\$17.00	\$ 300,333.33
					-	#DIV/0!	
					-	#DIV/0!	
				1,107,875.6	171.7		\$ 15,009,227.56



FY2025 Paving Program					
CD	SY	LM	Cost	%	PCI
1	192,056.1	29.8	\$ 2,528,201.39	17.3%	72%
2	52,029.1	8.1	\$ 690,783.89	4.7%	74%
3	121,804.9	18.9	\$ 1,441,016.59	11.0%	83%
4	152,295.4	23.6	\$ 1,725,723.45	13.7%	67%
5	61,052.6	9.5	\$ 763,158.34	5.5%	70%
6	12,573.3	1.9	\$ 213,746.67	1.1%	75%
7	168,341.8	26.1	\$ 2,485,058.95	15.2%	72%
8	310,055.4	48.0	\$ 4,407,605.70	28.0%	58%
9	37,667.0	5.8	\$ 753,932.58	3.4%	68%
Total	1,107,875.6	171.7	\$ 15,009,227.56	100.0%	

NOTE: The projects above include milling, overlay, heat scarification and/or slurry sealing. All projects are scheduled to be completed prior to June 30, 2025. **DPU \$15 vs \$30 SY**



Pavement Condition Rating (PCI)

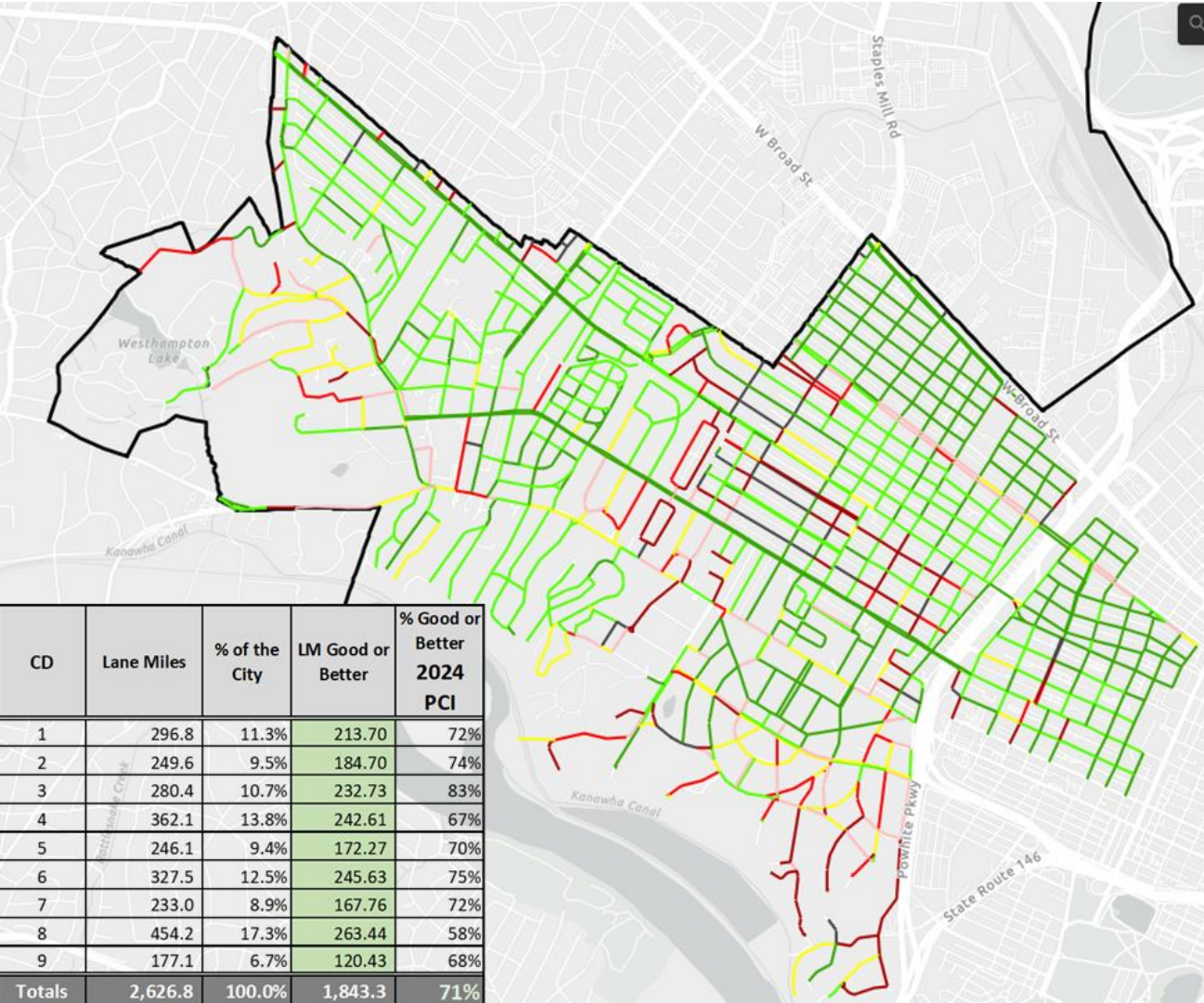
1st District - City of Richmond

FY2025 Paving Program					
CD	SY	LM	Cost	%	PCI
1	192,056.1	29.8	\$ 2,528,201.39	17.3%	72%
2	52,029.1	8.1	\$ 690,783.89	4.7%	74%
3	121,804.9	18.9	\$ 1,441,016.59	11.0%	83%
4	152,295.4	23.6	\$ 1,725,723.45	13.7%	67%
5	61,052.6	9.5	\$ 763,158.34	5.5%	70%
6	12,573.3	1.9	\$ 213,746.67	1.1%	75%
7	168,341.8	26.1	\$ 2,485,058.95	15.2%	72%
8	310,055.4	48.0	\$ 4,407,605.70	28.0%	58%
9	37,667.0	5.8	\$ 753,932.58	3.4%	68%
Total	1,107,875.6	171.7	\$ 15,009,227.56	100.0%	

FY2024 Paving Program				
CD	SY	LM	Cost	% LM
1	227,836.0	35.3	2,692,713.7	19.7%
2	87,363.0	13.5	1,266,868.1	7.6%
3	76,637.0	11.9	1,166,717.6	6.6%
4	376,096.0	58.3	3,949,804.6	32.5%
5	76,059.5	11.8	914,235.2	6.6%
6	36,633.0	5.7	457,660.4	3.2%
7	86,783.0	13.4	1,165,405.2	7.5%
8	91,555.5	14.2	1,451,513.9	7.9%
9	97,215.0	15.1	1,168,139.8	8.4%
Total	1,156,178.0	179.2	\$ 14,233,058.44	100.0%

FY2023 Paving Program				
CD	SY	LM	Cost	%
1	144,943.3	22.5	\$ 1,436,367.00	10.3%
2	206,506.6	32.0	\$ 2,187,264.00	14.6%
3	249,691.0	38.7	\$ 3,102,987.00	17.7%
4	125,240.9	19.4	\$ 1,531,100.00	8.9%
5	72,325.7	11.2	\$ 672,628.00	5.1%
6	81,276.6	12.6	\$ 755,872.00	5.8%
7	254,854.3	39.5	\$ 2,591,525.00	18.1%
8	111,406.0	17.3	\$ 1,276,536.00	7.9%
9	163,894.0	25.4	\$ 1,976,919.00	11.6%
Total	1,410,138.4	218.5	\$ 15,531,198.00	100.0%

FY2022 Paving Program				
CD	SY	LM	Cost	%
1	149,442.5	23.2	\$ 2,172,637.50	11.8%
2	88,942.5	13.8	\$ 1,310,512.50	7.0%
3	133,000.0	20.6	\$ 2,030,740.00	10.5%
4	183,420.0	28.4	\$ 1,547,703.60	14.5%
5	29,502.0	4.6	\$ 339,273.00	2.3%
6	233,600.5	36.2	\$ 2,427,973.74	18.5%
7	179,282.0	27.8	\$ 2,653,583.42	14.2%
8	110,608.0	17.1	\$ 1,423,164.00	8.8%
9	156,100.0	24.2	\$ 1,689,825.00	12.4%
Total	1,263,897.5	195.9	\$ 15,595,412.76	100.0%



CD	Lane Miles	% of the City	LM Good or Better	% Good or Better 2024 PCI
1	296.8	11.3%	213.70	72%
2	249.6	9.5%	184.70	74%
3	280.4	10.7%	232.73	83%
4	362.1	13.8%	242.61	67%
5	246.1	9.4%	172.27	70%
6	327.5	12.5%	245.63	75%
7	233.0	8.9%	167.76	72%
8	454.2	17.3%	263.44	58%
9	177.1	6.7%	120.43	68%
Totals	2,626.8	100.0%	1,843.3	71%

Sidewalk CIP and Maintenance

\$100,000 Windsor Farms – Dover Road



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FY2023 Sidewalk Program	
CD	Cost
1	\$ -
2	\$ 327,590.19
3	\$ 591,820.57
4	\$ 332,260.88
5	\$ 249,729.14
6	\$ 58,713.00
7	\$ 418,457.52
8	\$ 85,618.05
9	\$ -
Total	\$ 2,064,189.36

The Sidewalk Maintenance Program has completed, or has scheduled, over 14 miles of sidewalk improvements in FY's23/24. Through our CIP program, **120+ projects**, have been completed with another **550+ projects** being completed, in-house, by DPW Sidewalk Maintenance.

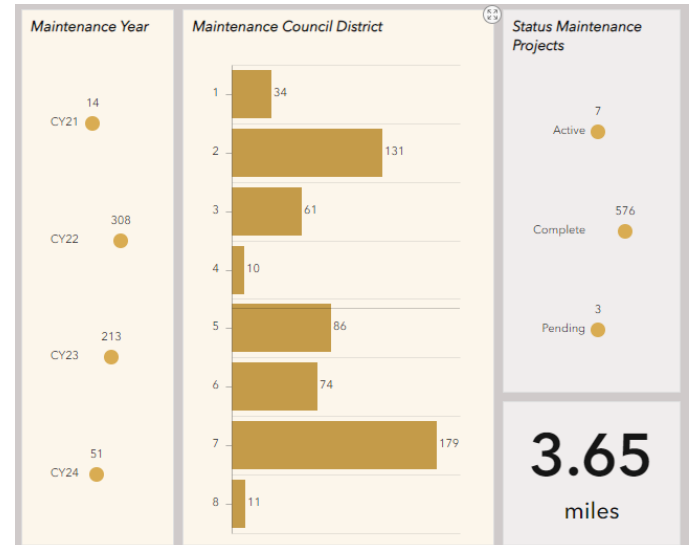


FY2024 Sidewalk Program	
CD	Cost
1	\$748,498.69
2	\$323,788.82
3	
4	\$418,586.67
5	\$620,127.01
6	\$359,487.35
7	
8	\$371,059.26
9	\$23,211.61
Total	\$ 2,864,759.41

FY 2024 Sidewalks		
Address	Council District	Estimated Cost
6700 Hanover Ave	1	\$82,653.00
400 Cleveland St	1	\$63,328.16
200 N Nansemond St	1	\$32,230.92
600 Sauer Ave	1	\$61,170.64
700 N Colonial Ave	1	\$83,094.05
3500 Hanover Ave	1	\$119,623.99
4200 Monument Ave	1	\$76,493.95
4300 Kensington Ave	1	\$59,184.74
4400 Kensington Ave	1	\$54,458.16
4600 Kensington Ave	1	\$79,582.95
5100 Grove Ave	1	\$36,678.11



GIS Database Information





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PUBLIC WORKS

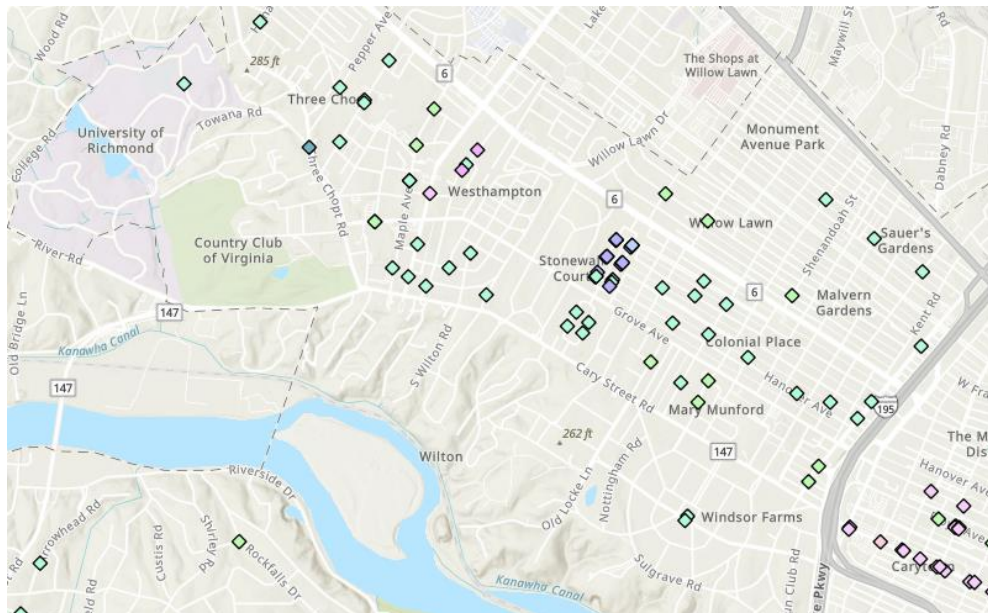
Speed Table Information

In Service	In Service	Planned	Under Review	Totals
CD1	5	23	5	33
CD2	9	12		21
CD3		14		14
CD4	23			23
CD5	24			24
CD6		14		14
CD7	32			32
CD8	23			23
CD9	18			18
MISC				0
Totals	134	63	5	202

Remaining Balance FY24	\$ 680,000.00
Expenditures in FY24	\$ 1,340,000.00



CD	Date	Street Name	Cross Street	Cross Street
1	In Service	Granite Ave	Cary Street Rd	Tuckahoe Ave
1	In Service	Libbie Ave	Linden Ave	Matoaka RD
1	In Service	Matoaka RD	Seneca Rd	N Wilton Rd
1	In Service	N Wilton Rd	Matoaka RD	Hileah Ave
1	In Service	Tuckahoe Blvd	Cary Street Rd	Tuckahoe Ave
1	Planned	Albemarle Ave	Grove Ave	Cary St Rd
1	Planned	Albemarle Ave	Grove Ave	Cary St Rd
1	Planned	Albemarle Ave	Grove Ave	Patterson Ave
1	Planned	Albemarle Ave	Grove Ave	Patterson Ave
1	Planned	Albemarle Ave	Grove Ave	Patterson Ave
1	Planned	Antrim Ave	W Grace St	Cutshaw Ave
1	Planned	Bunting Ave	Stuart Ave	Shadwell Rd
1	Planned	Commonwealth Ave	W Grace St	Cutshaw Ave
1	Planned	Floyd Ave`	N Sheppard St	N Colonial Ave
1	Planned	Grove Ave	N Colonial	N Sheppard St
1	Planned	Kensington Ave	Bunting Ave	Westmoreland St
1	Planned	Lafayette St	Stuart Ave	Hanover Ave
1	Planned	Lafayette St	W Grace St	Cutshaw Ave
1	Planned	Lexington Rd	Grove Ave	Cary St Rd
1	Planned	Lexington Rd	Grove Ave	Cary St Rd
1	Planned	Lexington Rd	Grove Ave	Patterson Ave
1	Planned	Lexington Rd	Grove Ave	Patterson Ave
1	Planned	Lexington Rd	Grove Ave	Patterson Ave
1	Planned	Maple Ave	St Catherine School	
1	Planned	N Hamilton St	Stuart Ave	Hanover Ave
1	Planned	N Hamilton St	Stuart Ave	Kensington Ave
1	Planned	Westmoreland St	Hanover Ave	Stuart Ave
1	Planned	Westmoreland St	Kensington Ave	Lenonard Pkwy
1	Under Review	Dover Rd	Harrow Pl	Eton Pl
1	Under Review	Dover Rd	Avon Rd	Eton Pl
1	Under Review	Lenonard Pkwy	Bunting Ave	Westmoreland St
1	Under Review	Lenonard Pkwy	Bunting Ave	Westmoreland St
1	Under Review	Maple Ave	York Rd	Lowry St



Speed Tables and Traffic Calming Citywide



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When placed in series, speed tables should be installed between 600 feet and 750 feet apart. Speed tables should be placed at least 5 feet from a driveway, 20 feet from an alley, 300 feet from a STOP or YIELD sign, 600 feet from a traffic signal, and 750 feet from another traffic calming device.

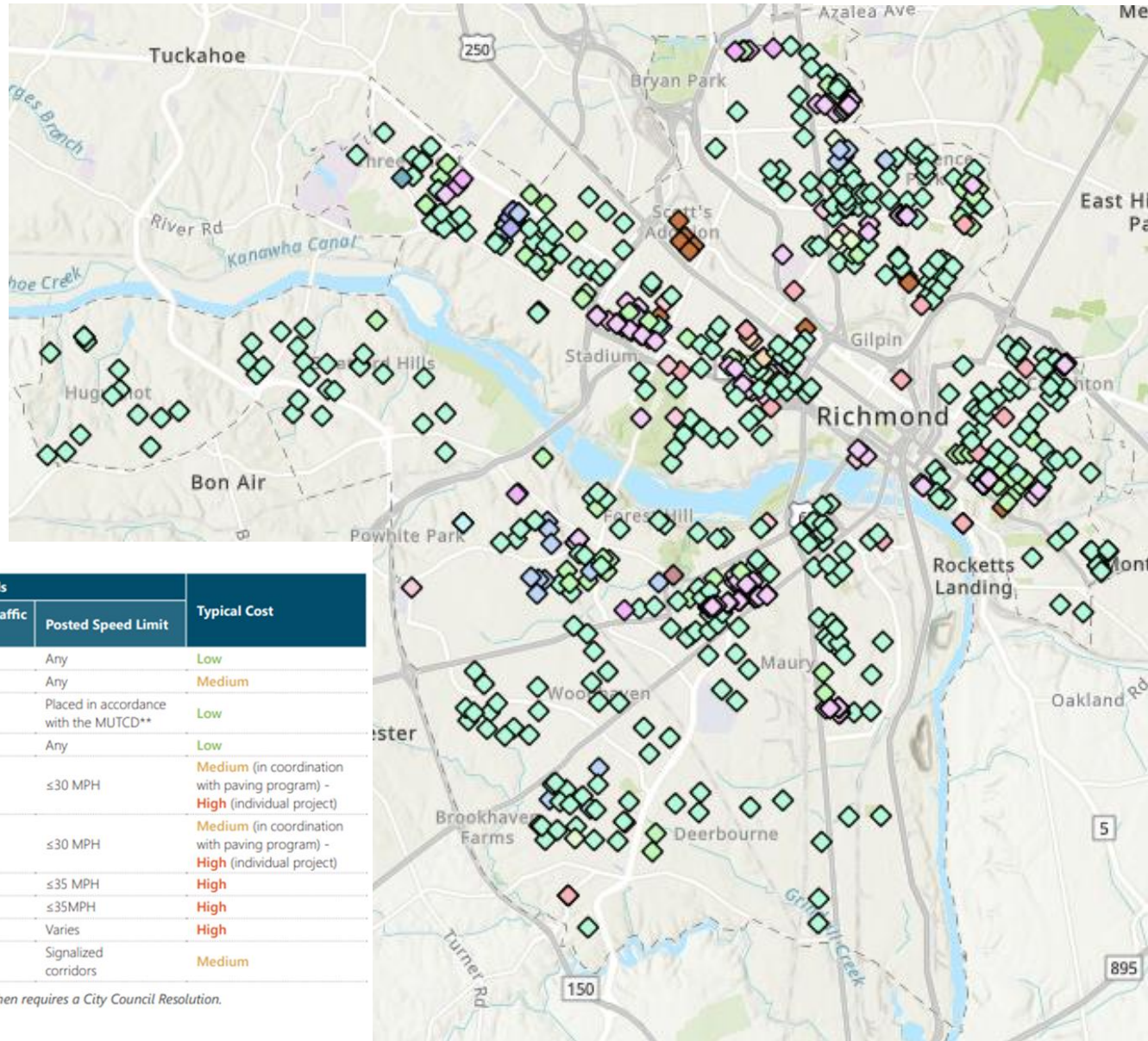
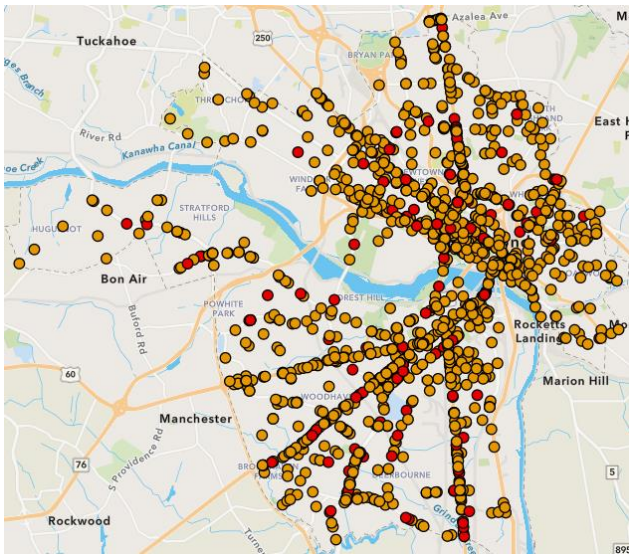


Table 1. Summary of Traffic Calming Strategies

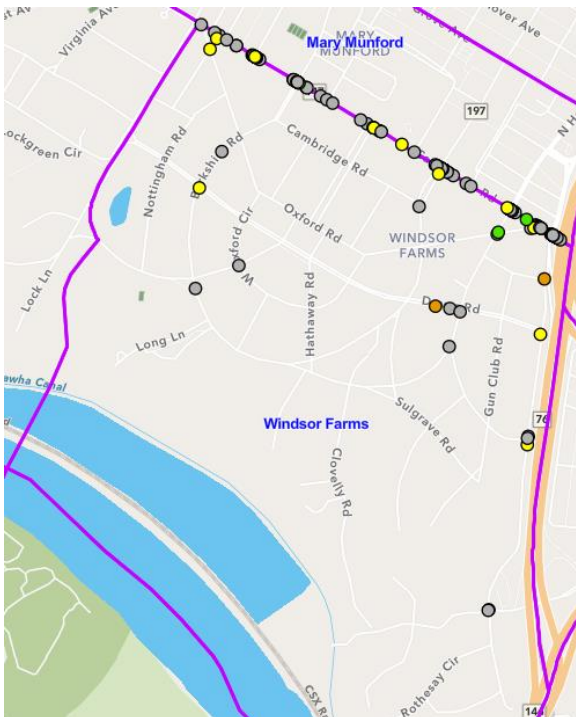
	Strategies	Page #	Residential Roads		Typical Cost
			Average Daily Traffic (ADT)	Posted Speed Limit	
LEVEL 1	Education	14	NA	Any	Low
	Enforcement	16	≥500 vpd	Any	Medium
	Signing	19		Placed in accordance with the MUTCD**	Low
	Enhanced Speed Program*	23	Any	Any	Low
	Speed Tables	24	≤7,500 vpd	≤30 MPH	Medium (in coordination with paving program) - High (individual project)
LEVEL 2	Raised Crosswalks	26	≤7,500 vpd	≤30 MPH	Medium (in coordination with paving program) - High (individual project)
	Neighborhood Traffic Circles	27	≤7,500 vpd	≤35 MPH	High
	Curb Extensions	29	≤16,000 vpd	≤35MPH	High
	Roadway Reconfiguration /Road Diet	31	<16,000 VPD	Varies	High
	Traffic Signal Retiming	33		Signalized corridors	Signalized corridors

* certain criteria as established by Richmond City Council must be met and then requires a City Council Resolution.

** MUTCD - Manual on Uniform Traffic Control Devices



Windsor Farms – 164 Total
90.2% on Cary Street Rd



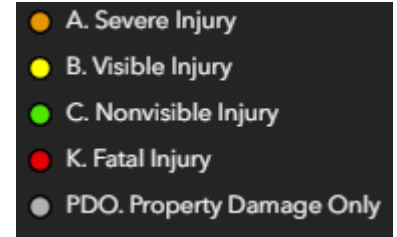
VDOT Crash Data

2015 - 2023

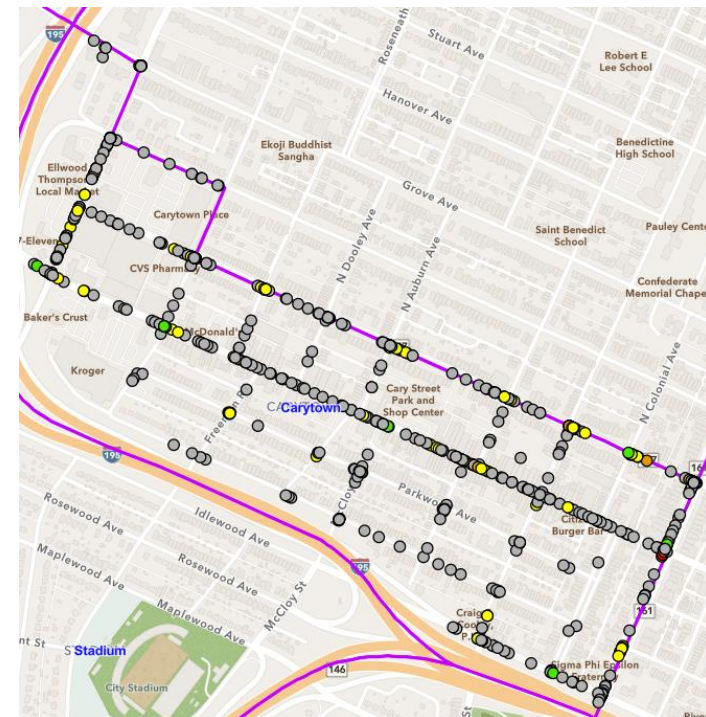


High Injury Network Data

- 39,331 Accidents
- 1,564 Severe Injuries
- 146 Fatalities



Carytown Area – 693 Total
1 fatality: Arthur Ashe Blvd – 2021
90.2% on Cary Street Rd



- ### Primary Factors in Prioritizing Projects:
- » Crash history;
 - » Traffic volumes;
 - » The speed profile of the roadway;
 - » The length of the roadway segment; and,
 - » The distance to the nearest traffic control device

Project Manager	Project Description	Council District	Estimated Amount
Adel	James River Branch Trail Project CN Phase	4	\$ 9,000,000.00
Adel	Tredeggar street sidewalk Project	6	\$ 750,000.00
Adel	Shockoe Valley Streets	7	\$ 46,500,000.00
Adel	Gillies Creek Greenway Phases II and III	7	\$ 1,350,000.00
Adel	VCT canal walk Project Phase II	7	\$ 550,000.00
Adel	Deepwater Terminal Road Extention to Goodes St	8	\$ 7,750,000.00
Adel	Brookland Park Blvd Streetscape (Revenue sharing)	3,6	\$ 2,000,000.00
Adel	Hull Street Road Improvement phase 1	8,9	\$ 34,000,000.00
Adel	Richmond Henrico Turnpike	6	\$ 2,000,000.00
Bruce	Scott's Addtion GreenSpace	2	\$ 1,106,000.00
Bruce	Scott's Addition BRT Streetscape	2	\$ 1,612,000.00
Bruce	Maymont S/W Phase II	5	\$ 432,000.00
Bruce	Riverfront/Orleans BRT streetscape	7	\$ 4,900,000.00
Bruce	Maury Street Streetscape phase II	8	\$ 4,618,000.00
Bruce	Southwood Parkway	8	\$ 300,000.00
Bruce	Green ES Sidewalk Phase II	9	\$ 756,849.00
Phillips	Laburnum Ave Median Imp	3	\$ 1,075,000.00
Phillips	Jahnke Road Imp (federal) 100570	4	\$ 22,331,391.00
Phillips	Semmes Ave, Forest Hill, Dundee Ped Safety	5	\$ 1,799,563.00
Phillips	Hull St Streetscape	6	\$ 4,910,138.00
Phillips	Main St/Williamsburg Rd Intersection	7	\$ 3,203,673.00
Phillips	Government Rd /Chimborazo Park Slope Repair	8	\$ 8,679,400.00
Phillips	Hull Street Gateway Sign Ph II	9	\$ 400,000.00
Phillips	Hey Road (Revenue Sharing)	9	\$ 15,240,026.00
Phillips	Belvidere Gateway Phase IV	2,3,5	\$ 1,086,174.00
Wang	Westhampton Phase II	1	\$ 200,000.00
Wang	BRT Shared UsePath to Science Museum	2	\$ 2,992,480.00
Wang	Arthur Ashe Bridge Replacement (Federal)	2	\$ 23,000,000.00
Wang	Maymont Sidewalk (Federal)-Phase I	5	\$ 412,507.00
Wang	Bainbridge Pedestrian Access Improvements	5	\$ 250,000.00
Wang	Biotech Phase III -Leigh St. Streetscape	6	\$ 6,608,000.00
Wang	Kanahwa Plaza Smartscale	6	\$ 3,308,614.00
Wang	Broad Street Streetscape (Federal)	1,2,3,6	\$ 6,020,287.00
Westbrook	Lombardy Bridge over CSXT (Federal)	3	\$ 21,000,000.00
Westbrook	Commerce Road (Federal)	6	\$ 36,350,000.00
Westbrook	Broad Street Bridge over abandoned RR spur (Federal)	6	\$ 3,900,000.00
Westbrook	MLK Bridge	6	\$ 6,000,000.00
Westbrook	E. Richmond Rd over Stoney Run	6	\$ 3,050,000.00
Westbrook	E. Richmond Rd over Gillies Creek (Federal)	6	\$ 3,050,000.00
Westbrook	Hull Street over Manchester Canal (Federal)	6	\$ 10,800,000.00
Westbrook	Lynhaven Ave Bridge (Federal)	8	\$ 2,500,000.00
Westbrook	Columbia St over Goodes Creek	8	\$ 2,500,000.00
Westbrook	Transit Stop Access Sidewalks (Federal)	Various	\$ 960,000.00
Total CIP			\$ 309,250,102.00



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CIP Engineering Projects inclusive of:

- Transportation
- Bridge Repairs/Replacement
- Sidewalk Improvements
- Complete Street Designs
- Roadway Repairs





DEPARTMENT OF PUBLIC WORKS

Lighter, Quicker, Cheaper Implementation

Transportation projects are often expensive and securing the funding to construct them can take many years. Some improvements can be implemented on a temporary, interim basis with lighter materials or tested out with removable materials. The City intends to implement components of some of the Action Plan Projects using this “Lighter, Quicker, Cheaper” (LQC) implementation strategy.



This project will provide sidewalks, ADA ramps, curbing and green infrastructure (e.g., permeable pavements, trees, landscaping) at the intersection of Brookland Parkway, Loxley Road and Rennie Avenue.



Crosswalk improvement: Temporary or demonstration pedestrian safety measures such as high visibility crosswalks, pedestrian refuges within crossings, or curb extensions can slow down cars and make the street more pedestrian-friendly.



This project will promote pedestrian open space, better access management and stormwater management through these improvements that will enhance a sense of place and quality of life.