2022 Budget and Five-Year Improvement Plan







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Board of Road Commissioners



Mark Rambo was appointed to the Board of the Kent County Road Commission in 2009 and has served as Chair since 2012. He holds a master's degree in public administration and is currently the Deputy City Administrator for the City of Kentwood. Previously, he has served as Manager of Operations for Grand Valley State University, Manager of Howard City and Engineering Programs Coordinator for the City of Walker.



David J. Morren was appointed to the Board of the Kent County Road Commission in 2014 and has served as Vice Chair since 2021. Previously, Commissioner Morren served on Kent County Board of Commissioners for 14 years, serving three years as Chairman and sitting on various public boards during his tenure. Commissioner Morren is the owner of Insignia Homes and has served as elder and deacon of his church.



Dave Medema was appointed to the Board of the Kent County Road Commission in 2017. Commissioner Medema is owner of Medema Consulting Associates LLC, which was established in 1999, and has served as board member of the Michigan League for Public Policy. Commissioner Medema has also been a member of the City of Grand Rapids Community Relations Commission, Board of Zoning Appeals and Community Development Citizens Committee. Commissioner Medema is a graduate of Calvin University, has a Master of Social Work degree from Arizona State University and studied at New Brunswick Theological Seminary. He is a certified coach and trainer for the Right Use of Power Institute in Boulder, Colorado. An avid bicyclist, Commissioner Medema proudly completed a ride from San Francisco, California, to Grand Rapids in 2011.

Board of Road Commissioners



Cynthia Porter Janes was appointed to the Board of the Kent County Road Commission in 2015 and served as Vice Chair from 2017 to 2019. Commissioner Janes is the Architectural & Engineering Services Director at Fishbeck and previously worked as an Education Practice Leader for AECOM. Commissioner Janes serves as a commissioner of the Kent County Board of Public Works and trustee of the Grand Rapids Public Museum. Previously, Commissioner Janes served six years on the GVMC board (five years on the Executive Committee); five years on the Cascade Township Planning Commission (including one year as chair); seven years as township trustee, elected to the Cascade Township Board; and nine years on the Board of Directors for the Cascade Community Foundation.



Robert VerHeulen was appointed to the Board of the Kent County Road Commission in 2019 and served as Vice Chair in 2020. Commissioner VerHeulen formerly served three terms in the Michigan House of Representatives, chairing the Michigan House Appropriations Subcommittee on Transportation from 2013 to 2014. He also served as mayor of Walker, Michigan from 2001 to 2012. Before taking public office, Commissioner VerHeulen worked as an attorney for Meijer Inc. and most recently as the Vice President and Deputy General Counsel to The Meijer Foundation. He also served on several boards for non-profit and philanthropic organizations throughout the community. Commissioner VerHeulen attended Grand Rapids Community College and graduated from the University of Michigan, receiving his juris doctorate from Wayne State University.

Managing Director



Steven A. Warren was named Managing Director of the Kent County Road Commission in 2013. During nearly 34 years of service to the commission, he has managed KCRC's long and short-range planning programs, environmental studies and major improvement projects. Mr. Warren also developed KCRC's Asset Management Program, which integrates the organization's Pavement Management, Performance Management and Geographic Information Systems. Prior to joining KCRC, Mr. Warren served as Director of the Metropolitan Planning Organization (MPO) for the Grand Rapids Metropolitan Area and worked as Transportation Planner for the Northwest Regional Planning Commission in Traverse City, Michigan.



March 1, 2022

Re: FY 2022 Operating Budget

Greetings Kent County Stakeholders:

On behalf of the Kent County Board of Road Commissioners, I would like to thank our local, state, and federal partners for their sense of collaboration and commitment to improving the transportation infrastructure within Kent County.

The Board further wants to recognize and thank the entire KCRC staff for their daily efforts to reach our shared vision of having the premier county transportation network in Michigan. Their proactive team approach, positive customer service and ability to adapt to challenges embody the spirit of an effective organization.

Strategic planning, asset management and continuous performance improvement remain at the core of our decision making, and we greatly appreciate your input on how we can improve. Thank you to all of our stakeholders who participated in last year's survey that helped guide an update to our strategic plan; we greatly appreciate you sharing your thoughts.

Aligned with our strategic plan is the construction of the new central complex, which will near completion this coming fiscal year. This monumental step will ensure the Road Commmission has the necessary infrastructure required to continue providing high-quality services for the next 100 years.

We take pride in the positive relationships we have with all of the communities in Kent County and appreciate the strong support and open lines of communication between our township leaders and local elected officials.

We hope the enclosed information helps facilitate understanding of the role of the Kent County Road Commission. Please feel free to contact any of us with questions or concerns at any time.

Sincerely,

Mark E. Rambo Chairperson

Mach E Lands



Working to Keep Kent County Moving Since 1911

WHO WE ARE



21 TOWNSHIPS KCRC service area









OUR NETWORK











Traffic and Safety

Continually analyzes traffic to improve safety and reduce congestion; maintains 120+ traffic signals and 30,000+ traffic signs



Construction and Preservation

Scheduled to improve over 1,200 lane miles by 2025



Over 200,000 hours dedicated to year-round activities that maintain and protect the roadway



Winter Maintenance

Servicing 5,300 lane miles of road targeting one pass of the network within 36 hours of a storm's completion



15% State Trunkline

HOW WE DO IT



Responsive to the Community:

Delivering value-driven service to meet the needs of those we serve.



Fiscally Responsible: 100% of funding comes from fuel tax, registration fees, grants and project cost sharing (no county general funds or property tax revenue). Pension and OPEB fully funded in 2018.



Strategic Planning: Organizational objectives drive performance measures; Long Range Plan translates organization's vision into action.



Collaboration and Coordination:

Partnerships at the local, regional and state level enhance efficiencies and improve services.

Construction and Preservation **ANNUAL BUDGET**

46%

5% 4% Non-Motorized

6% Capital Outlay

Administration

20% **Routine Maintenance**

Other Expenditures

1%











MEMORANDUM

To: Kent County Board of Road Commissioners

From: Steve Warren, Managing Director

Date: March 1, 2022

Subject: 2022 Operating Budget

We are pleased to present the 2022 Budget and Five-Year Improvement Plan of the Kent County Road Commission (KCRC).

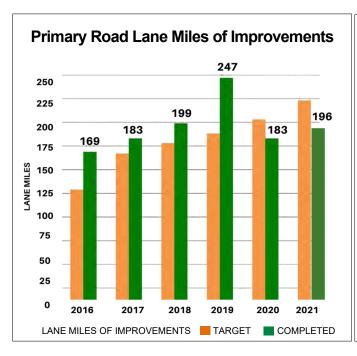
With this budget, we continue to make progress toward achieving the following strategic objectives:

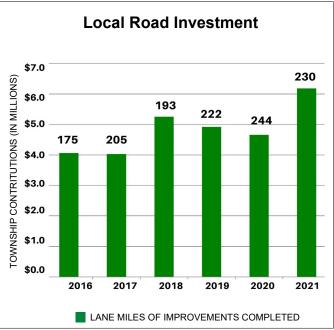
- Improve and preserve the condition of the primary road network consistent with KCRC's Long Range Asset Management Plan
- Match increased township contributions to improve and preserve the local road network
- Address additional routine maintenance needs to help keep good roads in good condition
- Replace large trucks to maintain an efficient and effective fleet
- Continue construction of the New Central Complex at the Walker View site

2021 Review

The tremendous teamwork and collaboration demonstrated across the organization allowed KCRC to sustain high levels of service amid the ongoing challenges that COVID-19 continued to present in 2021. Our focus on maximizing resources while maintaining safe work environments culminated in a total of 426 lane miles of improvements being completed across the primary and local road networks.

On the primary road network, we surpassed our targets for reconstruction and resurfacing, accomplishing more lane miles of longer-term fixes. On the local road network, we maintained KCRC's long-standing cost-share program with our township partners. This resulted, once again, in increased levels of investment tailored to meet the available resources and specific needs of each township.





2022: Looking Ahead

Much has been written and speculated about the recently enacted federal surface transportation program, better known as the "Infrastructure Investment and Jobs Act (IIJA)." The IIJA is a \$1.2 trillion bill that includes additional investment for highways, bridges, public transportation, water, energy, and broadband infrastructure. And while this, indeed, is a large sum, I do not foresee the anticipated increase designated for local road agencies to have the kind of transformational impact on KCRC's network and levels of service that one may assume.

Most of the funding for roads and bridges in the IIJA is, in fact, the reauthorization of funding designated under the traditional federal transportation program. Of the \$2 billion per year allocated to Michigan through 2026, the actual annual increase equates to about \$330 million. Federal funds are allocated across the state by formula with MDOT receiving 75% of federal funds and the remaining 25% being distributed among county road agencies, cities, and villages.

Furthermore, of KCRC's total road network of 1,975 miles, federal grant funding can only be used on a designated 655 miles of our Primary road network, leaving the remaining 1,320 network miles (including the Local road system) ineligible to benefit.

KCRC is waiting to see how much additional federal funding will trickle down from the State to our area, and we should know more in the coming months.

While the additional federal aid over the next five years is much appreciated, it does not provide a comprehensive revenue solution that is needed to achieve KCRC's long-range goals. Instead, we must continue to work with our state legislators to advocate for a funding solution that allows us to achieve our strategic objectives aligned with preserving and maintaining our entire road network and the other services we perform.

New Central Complex

KCRC broke ground at the site of the New Central Complex, located at 1900 4 Mile NW, in March 2021, and work is steadily progressing. We are very proud of the project's assembled team led by Hobbs+Black Architects, overseeing the project's design, and Owen Ames Kimball, managing the two-phase construction.

Phase I work is substantially complete, including construction of the vehicle wash building, cold/warm storage building and salt barn.

Phase II work is advancing and focuses on the maintenance garage, administrative building, and fuel island. The garage's foundation is currently being installed with concrete pours occurring multiple times a week. The administration building basement excavation has also begun and underground utility work continues from south to north, as weather allows.

In June 2021, the Grand Rapids City Commission voted to exercise the option to purchase our current Central Complex property at 1500 Scribner Avenue. The agreement allows KCRC to remain at the Scribner site into 2023, which provides us ample time and flexibility to complete construction (Phase 1 and 2) at the New Central Complex and efficiently transfer operations from one site to the other.



Rendering: Hobbs+Black Architects

Our Partners

The success we have as an organization is dependent in large part on maintaining positive relationships with township, county, city, and state officials. I want to thank these partners for their ongoing support. Through our partnerships, we continue to increase investment in KCRC's road and bridge network, which directly benefits the communities and businesses we serve.

2021 Primary Road Improvements

RECONSTRUCTION

68th Street – Cherry Valley Avenue to Thornapple River Drive (south)

Reconstructed to 2-lane all-season standard. Work included tree removal, earthwork, ditches, culvert work, HMA pavement, pavement markings and restoration.

84th Street – Division Avenue to Eastern Avenue

Widened existing 2-lane portion to 3 lanes. Work included earthwork, concrete curb and gutter, storm sewer, drainage, sanitary sewer (Gaines Township) HMA pavement, pavement markings and restoration.

84th Street – Breton Avenue to Hanna Lake Avenue

Reconstructed to 2-lane all-season standard. Work included tree removal, earthwork, ditches, culvert replacement or extension, HMA pavement, pavement markings and restoration.

100th Street – Kalamazoo Avenue to Hanna Lake Avenue

Reconstructed to 2-lane all-season standard. Work included tree removal, earthwork, ditches, culvert replacement, HMA pavement, pavement markings and restoration.

Full depth pavement removal and Hot Mix Asphalt (HMA) replacement:

- 7 Mile Road Alpine Avenue to Pine Island Drive
- 13 Mile Road Sparta Village E. limit to Edgerton Avenue
- Northland Drive from north of Ritchie Avenue to Lake Street
- Whitneyville Avenue from north of I-96 overpass to Cascade Road

Crush and shape existing pavement and HMA replacement:

- **68**th **Street** Division Avenue to Eastern Avenue
- Alden Nash Avenue Fulton Street (M-21) to Foreman Street
- Fruit Ridge Avenue 4 Mile Road to 6 Mile Road

RESURFACING

- 68th Street 200 feet east of Kalamazoo Avenue to Plaza Center Avenue
- **68**th **Street –** east of Patterson Avenue to Broadmoor Avenue (M-37)
- Burton Street Spaulding Avenue to Kraft Avenue
- Cascade Road Burton Street to 28th Street

SAFETY

Traffic Signal Projects

These projects include the upgrade of the existing traffic signal, or installation of a new signal, with box configuration, LED signal heads, backplates and detection.

- Cascade Road and Laraway Lake Drive
- Thornapple River Drive and Laraway Lake Drive
- Northland Drive and 13 Mile Road
- West River Drive and West River Center
- West River Drive and Lamoreaux Drive

BRIDGES AND CULVERTS

Sparta Bridge #28 – 13 Mile Road over the Rogue River

Bridge rehabilitation project included spot concrete box beam replacement deck waterproofing, concrete abutment repair and new asphalt surface.

Spencer Bridge #8 – Rooksby Street over Black Creek

Culvert rehabilitation project repaired portion of the existing triple metal pipe arches with reinforced concrete placed on the external portion of the galvanized metal culverts.

Tyrone Bridge #15 – 20 Mile Road over Walter Creek

Bridge replacement project removed the existing steel girder bridge and installed a precast concrete box culvert with per-cast concrete wingwalls.

Tyrone Bridge #18 – 20 Mile Road over the Rogue River

Bridge superstructure replacement project included removal of the existing concrete deck and steel beams and replaced with galvanized steel beams and reinforced concrete deck and new steel beam bridge railing.

NON-MOTORIZED

Nelson Township Trail

Construction of a 10-foot-wide asphalt non-motorized trail extending from Cedar Springs High School south and east to the Ritchie Avenue Sports Complex. Local match provided by Nelson Township.

4 Mile Road Sidewalk

Construction of a 5- to 6-foot-wide concrete sidewalk along the north side of 4 Mile Road extending from Yorkview Drive to West River Drive. Local match provided by Alpine Township

2022 Amended Budget Appropriation Act

| | 2020 Actual | Ame | 2021 ended Budget | Ame | 2022 nded Budget | Attachment |
|------------------------------------------------------------------|-----------------------------|-----|--------------------------|-----|--------------------------|------------|
| Revenue Michigan Transportation Funds (MTF) State General Fund | \$ 51,644,513 | \$ | 56,082,993 | \$ | 57,645,654 | |
| Surplus Appropriation Additional Appropriation | - - | | - - | | - - | |
| Federal and State Grants Motorized | 5,078,756 | | 9,007,422 | | 9,485,573 | Α |
| Non-Motorized State Trunkline contract | 1,730,978 12,332,570 | | 1,165,000 13,000,000 | | 440,000 11,000,000 | |
| Local Government Contributions Road Projects Non-Motorized | 4,725,852 | | 9,383,500 | | 8,000,000 | |
| Services Provided | 1,064,280 1,332,682 | | 935,000 1,300,000 | | 200,000 2,000,000 | |
| Sale of Capital Assets and salvage Property Rental | 168,002 165,535 | | 1,050,000 150,000 | | 500,000 150,000 | |
| Interest | 412,537 | | 250,000 | | 150,000 | |
| Total Revenue | 78,655,705 | | 92,323,915 | | 89,571,227 | |
| Expenditures Primary Roads | | | | | | |
| Reconstruction | 12,609,467 | | 16,860,000 | | 15,640,000 | |
| Resurfacing Preservation | 953,119 4,415,675 | | 800,000 4,000,000 | | 780,000 3,000,000 | |
| Safety | 3,159,171 | | 2,625,000 | | 2,951,000 | |
| Bridges and Culverts Total Primary Roads | 1,690,868 22,828,300 | | 1,503,000 25,788,000 | | 2,338,000 24,709,000 | Α |
| Local Roads | | | | | | |
| Reconstruction | 8,603,703 | | 13,000,000 | | 13,290,000 | |
| Resurfacing Preservation | 1,009,443 2,738,835 | | 1,850,000 3,643,000 | | 1,710,000 4,000,000 | |
| Safety | 517,398 | | 800,000 400,000 | | 680,000 500,000 | |
| Bridges and Culverts Total Local Roads | 1,525,422 14,394,802 | | 19,693,000 | | 20,180,000 | |
| Routine Maintenance | 0.040.550 | | 0.500.000 | | 7.000.000 | |
| State Primary | 8,849,553 5,673,301 | | 9,500,000 6,525,000 | | 7,000,000 6,851,250 | В |
| Local | 11,064,278 | | 11,175,000 | | 11,733,750 | В |
| Total Routine Maintenance | 25,587,132 | | 27,200,000 | | 25,585,000 | |
| Winter Maintenance State | 3,451,336 | | 3,500,000 | | 4,000,000 | |
| Primary | 2,165,374 | | 2,190,000 | | 3,000,000 | |
| Local Total Winter Maintenance | 2,020,149 7,636,859 | | 2,190,000 7,880,000 | | 3,000,000 | |
| Non-Motorized | 3,015,427 | | 2,100,000 | | 640.000 | |
| Equipment Operations Capital Outlay | (519,345) | | 750,000 | | 500,000 | |
| Buildings | 758,135 | | 8,985,000 | | 5,699,500 | С |
| Equipment Depreciation | 4,472,070 (4,030,186) | | 6,928,000 (4,300,000) | | 6,177,000 (4,400,000) | С |
| Services Provided | 1,062,682 | | 1,000,000 | | 1,000,000 | |
| Administration Contingency | 2,724,336 - | | 2,861,817 - | | 3,000,000 | D |
| Total Expenditures | 77,930,212 | | 98,885,817 | | 93,090,500 | |
| Revenues Over (Under) Expenditures | 725,493 | | (6,561,902) | | (3,519,273) | |
| Fund Balance, Beginning of Year | 28,026,645 | | 28,752,138 | | 28,748,368 | |
| Projected Fund Balance, End of Year | \$ 28,752,138 | \$ | 22,190,236 | \$ | 25,229,095 | |
| | | | | | 40 405 000 | 0 "" 1 |

2022 Amended Budget Attachment A Primary Road Projects

| | | | | Lane | | | Source of Funds | | <u></u> |
|--------------|---------------------------|---------------------------------------------|-------|-------|-------------------------------|---------------|-----------------|-------|-----------------|
| Category | Road | Limits | Miles | Miles | Improvement | KCRC | Federal/State | Local | Project Total |
| Reconstruc | ction | | | | | | | | |
| | nsion/All-Season | | | | | | | | |
| | 100th St. | Hanna Lake Ave. to East Paris Ave. | 1.0 | 2.0 | All-Season | \$ 572,000 | \$ 913,000 | | \$ 1,485,000 |
| | 68th St. | Plaster Creek to Hanna Lake Ave. | 0.6 | 3.0 | Widening 4 to 5 lanes | 450,000 | | | 1,650,000 |
| | Cascade Rd. | 36th St. to Whitneyville Ave. | 8.0 | 2.4 | Widening 2 to 3 lanes | 430,000 | 1,120,000 | | 1,550,000 |
| Full D | Depth Pavement | | | | | | | | |
| | 68th St. | Eastern Ave. to Kalamazoo Ave. | 1.0 | 4.0 | Resurface | 254,000 | 731,000 | | 985,000 |
| | 4 Mile Rd. | Coit Ave. to Plainfield Ave. | 1.0 | 3.0 | Resurface | 195,000 | 450,000 | | 645,000 |
| | 6 Mile Rd. | Alpine Ave. to Pine Island Dr. | 1.8 | 3.6 | Resurface | 325,657 | 749,343 | | 1,075,000 |
| | Wolverine Blvd. | 10 Mile Rd. to 11 Mile Rd. | 1.0 | 4.0 | Resurface | 495,790 | 899,210 | | 1,395,000 |
| | Northland Dr. | 11 Mile Rd. to 12 Mile Rd. | 1.0 | 5.0 | Resurface | 335,000 | | | 965,000 |
| | Northland Dr. | 18 Mile Rd. to Ritchie Ave. | 1.0 | 2.0 | Resurface | 360,000 | 930,000 | | 1,290,000 |
| | Crush & Shape | Various Locations | 6.1 | 13.4 | Resurface | 1,500,000 | | | 1,500,000 |
| | Mill & Fill | Various Locations | 6.1 | 13.4 | Resurface | 1,500,000 | | | 1,500,000 |
| Carry | over projects | | | | | 575,830 | 1,024,170 | | 1,600,000 |
| Total Recon | nstruction | | 21.4 | 55.7 | | 6,993,277 | 8,646,723 | | - 15,640,000 |
| Resurfacin | α | | | | | | | | |
| | Overlavs | Various Locations | 5.3 | 11.6 | Resurface | 780,000 | | | 780,000 |
| Total Resur | - , | | 5.3 | 11.6 | _ | 780,000 | | | - 780,000 |
| Preservation | on | | | | | | | | |
| | Surface Treatments | Various Locations | 39.0 | 85.8 | Sealcoat and Micro Surface | 2,500,000 | ı | | 2,500,000 |
| | Thin Overlays | | 7.0 | 15.4 | | 500,000 | | | 500,000 |
| Total Prese | rvation | - | 46.0 | 101.2 | - | 3,000,000 | - | | - 3,000,000 |
| Safety | | | | | | | | | |
| _ | 100th St. at Division Ave | e. | | | New Traffic Signal | 230,000 | | | 230,000 |
| | 68th St. at Plaza Center | Dr. | | | Signal Upgrade | 140,000 | | | 140,000 |
| | Patterson Ave. at Burton | n St. | | | Signal Upgrade | 140,000 | | | 140,000 |
| | Carryover projects | | | | Signal Upgrade | 151,000 | | | 151,000 |
| | Various Locations | | | | Capacity / Safety Improvement | | | | 340,000 |
| Total Safety | 1 | | | | | 1,001,000 | - | | - 1,001,000 |
| Bridges an | | | | | | | | | |
| | Ada Bridge #5 | Knapp St. over the Grand River | | | Preservation | 81,000 | | | 480,000 |
| | Tyrone Bridge #21 | 18 Mile Rd. over the Rogue River | | | Rehabilitation | 83,150 | | | 523,000 |
| | Spencer Bridge #22 | Lincoln Lake Ave 300 ft. north of 18 Mile F | ₹d | | Rehabilitation | 200,000 | | | 200,000 |
| | Carryover projects | | | | | 435,000 | | | 435,000 |
| | Preventive Maintenance | Various Locations | | | | 700,000 | | | 700,000 |
| Total Bridge | es and Culverts | | | | | 1,499,150 | 838,850 | | - 2,338,000 |
| Total Prima | ary Road Projects | | 72.6 | 168.5 | = | \$ 13,273,427 | \$ 9,485,573 | \$ | - \$ 22,759,000 |

2022 Amended Budget Attachment B Routine Maintenance

Primary

| | | 2020 | • | 2021 | | 2022 |
|---------------------------|----|-----------|----|--------------|------|------------|
| Description | | Actual | Am | ended Budget | Amen | ded Budget |
| Adopt-a-Road Expenses | | 9,940 | | 10,000 | | 10,500 |
| Crack sealing | | 37,154 | | 35,000 | | 36,750 |
| Drainage And Backslopes | | 1,272,712 | | 1,530,000 | | 1,606,500 |
| Grass And Weed Control | | 464,371 | | 450,000 | | 472,500 |
| Guard Rail & Posts | | 82,765 | | 80,000 | | 84,000 |
| Other routine maintenance | ! | 4,081 | | 5,000 | | 5,250 |
| Restoration | | 48,573 | | 50,000 | | 52,500 |
| Roadside Cleanup | | 76,164 | | 75,000 | | 78,750 |
| Shoulder Maintenance | | 318,486 | | 515,000 | | 540,750 |
| Spot Mill and Fill | | - | | | | _ |
| Supervision | | 630,010 | | 625,000 | | 656,250 |
| Surface Maintenance | | 1,603,027 | | 1,860,000 | | 1,953,000 |
| Sweeping And Flushing | | 125,505 | | 125,000 | | 131,250 |
| Trees And Shrubs | | 983,761 | | 1,150,000 | | 1,207,500 |
| Weight Limit Signing | | 16,752 | | 15,000 | | 15,750 |
| Total Primary | \$ | 5,673,301 | \$ | 6,525,000 | \$ | 6,851,250 |

Local

| | | 2020 | | 2021 | | | 2022 |
|---------------------------|----|------------|-----|-------------|------|------|------------|
| Description | | Actual | | Amended Bud | dget | Amen | ded Budget |
| Adopt-a-Road Expenses | | 5,623 | | 5 | ,000 | | 5,250 |
| Crack sealing | | 61,305 | | 60 | ,000 | | 63,000 |
| Drainage And Backslopes | | 2,436,474 | | 2,700 | ,000 | | 2,835,000 |
| Dust Control | | 428,710 | | 425 | ,000 | | 446,250 |
| Grass And Weed Control | | 453,846 | | 450 | ,000 | | 472,500 |
| Guard Rail & Posts | | 43,850 | | 40 | ,000 | | 42,000 |
| Other routine maintenance | 9 | 18,743 | | 20 | ,000 | | 21,000 |
| Restoration | | 177,812 | | 175 | ,000 | | 183,750 |
| Roadside Cleanup | | 37,607 | | 35 | ,000 | | 36,750 |
| Shoulder Maintenance | | 276,374 | | 275 | ,000 | | 288,750 |
| Supervision | | 822,849 | | 800 | ,000 | | 840,000 |
| Surface Maintenance | | 4,063,691 | | 3,715 | ,000 | | 3,900,750 |
| Sweeping And Flushing | | 9,544 | | 10 | ,000 | | 10,500 |
| Trees And Shrubs | | 2,213,113 | | 2,450 | ,000 | | 2,572,500 |
| Weight Limit Signing | | 14,738 | | 15 | ,000 | | 15,750 |
| Total Local | \$ | 11,064,278 | _ 9 | 11,175 | ,000 | \$ | 11,733,750 |

2022 Amended Budget Attachment C Capital Outlay

| Buildings | Unit Cost | 2022 Amended Budget \$ 225,000 |
|-----------------------------------------------------------------------------------|-------------------|--------------------------------------|
| Add road material bunkers at North (west bunkers) Replace overhead doors at North | | 35,000 |
| Upgrade lighting at North Replace EPS fire monitoring system at South | | 30,000 7,500 |
| Remove mechanic bay wall at Southwest | | 25,000 |
| Replace parking lot LÉD lights at Southwest | | 30,000 |
| Floor scrubber at Southwest New Central Complex at Walkerview | | 25,000 5,000,000 |
| Carryover buildings | | 322,000 |
| Total Buildings | | \$ 5,699,500 |
| Plow Trucks | | |
| Five Axle Truck 1 Live bottom box | 75,000 | 75,000 |
| 1 Underbody scraper | 10,500 | 10,500 |
| 1 Hydraulics | 10,000 | 10,000 |
| 1 Labor | 40,000 | 40,000 |
| Single Axle Trucks (2023) | | |
| 10 Dump box 10 Underbody scraper | 27,000 10,500 | 270,000 105,000 |
| 10 Wing | 7,000 | 70,000 |
| 10 Hydraulics | 10,000 | 100,000 |
| 10 Labor to complete trucks | 60,000 | 600,000 |
| 1 Hook loader attachment at South | 60,000 | 60,000 |
| Labor to complete Single Axle Trucks (2022) Total Plow Trucks | 30,000 | 300,000 1,640,500 |
| Total Flow Trucks | | 1,040,300 |
| Heavy Equipment | | |
| Replacements 1 High Ranger | 200,000 | 200,000 |
| 1 Loader | 400,000 | 400,000 |
| 1 Fork attachment | 8,000 | 8,000 |
| Box plow attachment Metergrader | 15,000 | 15,000 |
| Motorgrader Roller attachment | 400,000 45,000 | 400,000 45,000 |
| 1 Tractors | 100,000 | 100,000 |
| 1 Side mower attachment | 25,000 | 25,000 |
| 1 Rear mower attachment1 Boom arm mower attachment | 10,000 15,000 | 10,000 15,000 |
| 1 Rock hound | 10,000 | 10,000 |
| 1 Skytrack / Tella-handler | 80,000 | 80,000 |
| 1 Mini excavators | 70,000 | 70,000 |
| 1 Track loader 1 Forestry head | 106,000 37,000 | 106,000 37,000 |
| 1 Mill attachment | 40,000 | 40,000 |
| 1 Pickup broom | 6,000 | 6,000 |
| 1 Utility trailer | 10,000 | 10,000 |
| 1 Tar distributor 1 Roller | 200,000 60,000 | 200,000 60,000 |
| 1 Chipper | 90,000 | 90,000 |
| 1 Push-off broom | 75,000 | 75,000 |
| | | 2,002,000 |
| Small Equipment | | |
| Power Tools | | 20,000 |
| Shop Tools Total Small Equipment | | 20,000 40,000 |
| | | , 0 |
| Work Trucks 2 1 ton truck DRW, regular cab, dump | 65,000 | 130,000 |
| 1 1 ton truck DRW, regular cab, dump | 70,000 | 70,000 |
| 1 1 ton truck DRW, crew cab, dump, liftgate | 75,000 | 75,000 |
| 1 1 ton truck SRW, ext. cab, 4x4, 6.5 box, plow | 47,500 | 47,500 |
| 1 1/2 ton truck, ext. cab, 4x4 (road patrol) 2 1/2 ton truck, ext. cab, 4x2 | 40,000 30,000 | 40,000 60,000 |
| 2 1/2 ton truck, ext. cab, 4x2 2 1/2 ton truck, 4x4 | 40,000 | 80,000 |
| 2 Cars | 26,000 | 52,000 |
| | | 554,500 |
| Carryover equipment | | 1,940,000 |
| Total Equipment | | \$ 6,177,000 |

2022 Amended Budget Attachment D Administration

| | 2020 | | 2021 | | 2022 |
|------------------------------------|-----------------|-----|--------------|----|--------------|
| | Actual | Ame | ended Budget | Am | ended Budget |
| Advertising | \$ 16,449 | \$ | 20,000 | \$ | 20,000 |
| Depreciation | 52,723 | | 60,000 | | 55,000 |
| Equipment Rental | 37,613 | | 40,000 | | 50,000 |
| Information Technology | 160,916 | | 161,817 | | 250,000 |
| Insurance | 111,793 | | 115,000 | | 100,000 |
| Personnel Costs | 1,808,629 | | 1,900,000 | | 2,000,000 |
| Professional Services | 176,781 | | 200,000 | | 215,000 |
| Repairs and Maintenance | 117,442 | | 120,000 | | 100,000 |
| Supplies | 197,643 | | 200,000 | | 175,000 |
| Training and Travel | 17,553 | | 20,000 | | 15,000 |
| Utilities | 118,268 | | 125,000 | | 125,000 |
| Handling Charges on Materials Sold | (83,766) | | (95,000) | | (100,000) |
| Purchase Discounts | (7,710) | | (5,000) | | (5,000) |
| Total Administration | \$ 2,724,336 | \$ | 2,861,817 | \$ | 3,000,000 |



2022 Primary Road Improvements

RECONSTRUCTION

100th Street – Hanna Lake Avenue to East Paris Avenue

Reconstruct to 2-lane all-season standard. Work includes tree removal, earthwork, ditches, culvert replacement, HMA pavement, pavement markings and restoration. Through traffic will be detoured.

68th Street – Glen Hollow Drive to Hanna Lake Avenue

Widen existing 4-lane portion to 5 lanes. Work includes earthwork, concrete curb and gutter, storm sewer, drainage, concrete sidewalk (Gaines Township) HMA pavement, pavement markings and restoration. 2 Way Traffic will be maintained.

Cascade Road – 36th Street to Whitneyville Avenue

Widen existing 2-lane portion to 3 lanes. Work includes earthwork, concrete curb and gutter, storm sewer, drainage, HMA pavement, pavement markings and restoration. Through traffic will be detoured.

68th Street – Eastern Avenue to Kalamazoo Avenue

Cold mill existing 4-lane asphalt surface and place 2 courses of HMA. Upgrade sidewalk ramps to meet current ADA requirements. Two-way traffic will be maintained.

4 Mile Road - Coit Avenue to Plainfield Avenue

Full Depth Cold mill existing 3-lane asphalt surface and place 2 courses of new HMA. Two-way traffic will be maintained.

6 Mile Road - Alpine Avenue to Pine Island Drive

Crush and shape the existing asphalt surface and place 2 courses of hot mix asphalt (HMA). Through traffic will be detoured.

Wolverine Boulevard - 10 Mile Road to 11 Mile Road

Cold mill existing HMA over existing rubbelized concrete pavement. Place 2 courses of new HMA in 4-lane boulevard section. Two-way traffic will be maintained.

Northland Drive - from 11 Mile Road to 12 Mile Road

Full Depth Cold mill existing 5-lane asphalt surface and place two courses of HMA. Milling and paving work will be phased to always maintain 2-way traffic. (Will be bid with Wolverine Boulevard project.)

Northland Drive - from 18 Mile Road to Ritchie Avenue

Install underdrains, Place 4-inch-deep aggregate over existing asphalt pavement (over concrete pavement) pulverize aggregate, grade and place 2 courses of HMA. Through traffic will be detoured.

Other Reconstruction Projects:

- **Belmont Avenue** Post Drive to Pine Hill Drive
- Burton Street Candlewick Court to Cascade Point Private
- Division Avenue West River Drive to 6 Mile Road
- Fruit Ridge Avenue 16 Mile Road to 18 Mile Road
- Lincoln Lake Avenue 18 Mile Road to Bradshaw; Bass Lake to county line
- Morse Lake Avenue 60th Street to 68th Street

RESURFACING

Northland Drive - Lake Street north to county line

Cold Mill HMA and place new HMA

SAFETY

Traffic Signal Projects

These projects include the upgrade of the existing traffic signal, or installation of a new signal, with box configuration, LED signal heads, backplates and detection.

- 68th Street and Plaza Center Drive
- 100th Street and Division Avenue
- Burton Street and Patterson Avenue

BRIDGES AND CULVERTS

Ada Bridge #5 – Knapp Street over the Grand River

Bridge preservation project includes reinforced concrete deck patching and epoxy sealing. Partial clean and paint Steel Girders. 2-way traffic to be maintained using portable traffic signals.

Spencer Bridge #22 – Lincoln Lake Avenue over Clear Creek

Culvert rehabilitation project to repair deteriorated portion of the existing triple corrugated metal pipe arches with reinforced concrete placed on the bottom internal portion of the galvanized metal culverts. Traffic will be detoured.

Tyrone Bridge #21 – 18 Mile Rd over the Rogue River

Bridge superstructure replacement project to remove the existing concrete deck and steel beams and replace with galvanized steel beams and reinforced concrete deck and railing. Traffic will be detoured.

Five-Year Improvement Program 2022 Primary Road Projects

| | | | | Lane | | s | | | | |
|--------------------|---------------------------------|---------------------------------------------|-------|-------|-------------------------------|---------------|---------------|-----------|---------------|------------|
| Category | Road | Limits | Miles | Miles | Improvement | KCRC | Federal/State | Local | Project Total | Program |
| Reconstruc Expa | tion nsion/All-Season | | | | | | | | | |
| | 100th St. | Hanna Lake Ave. to East Paris Ave. | 1.0 | 2.0 | All-Season | \$ 437,000 | \$ 913,000 | | \$ 1,350,000 | STP-R(STL) |
| | 68th St. | Plaster Creek to Hanna Lake Ave. | 0.6 | 3.0 | Widening 4 to 5 lanes | 300,000 | 1,200,000 | | 1,500,000 | EDC |
| | Cascade Rd. | 36th St. to Whitneyville Ave. | 8.0 | | Widening 2 to 3 lanes | 280,000 | 1,120,000 | | 1,400,000 | |
| (A) | Clyde Park Ave. | 108th St. to 100th St. | 1.0 | 2.0 | All-Season | | 1,040,000 | 260,000 | 1,300,000 | Cat-A |
| Full D | Depth Resurface | | | | | | | | | |
| | 68th St. | Eastern Ave. to Kalamazoo Ave. | 1.0 | 4.0 | Resurface | 184,000 | 731,000 | 1 | 915,000 | NH |
| | 4 Mile Rd. | Coit Ave. to Plainfield Ave. | 1.0 | 3.0 | Resurface | 150,000 | 450,000 | | 600,000 | EDC |
| | 6 Mile Rd. | Alpine Ave. to Pine Island Dr. | 1.8 | 3.6 | Resurface | 250,657 | 749,343 | | 1,000,000 | STP-U |
| | Wolverine Blvd. | 10 Mile Rd. to 11 Mile Rd. | 1.0 | 4.0 | Resurface | 400,790 | 899,210 | | 1,300,000 | STP-U |
| | Northland Dr. | 11 Mile Rd. to 12 Mile Rd. | 1.0 | 5.0 | Resurface | 270,000 | 630,000 | | 900,000 | |
| | Northland Dr. | Cedar Springs City Limits to Ritchie Ave. | 1.0 | 2.0 | Resurface | 270,000 | 930,000 | | 1,200,000 | STP-R |
| | Crush & Shape | Various Locations | 6.1 | | Resurface | 1,500,000 | - | | 1,500,000 | |
| | Mill & Fill | Various Locations | 6.1 | | Resurface | 1,500,000 | - | | 1,500,000 | |
| Total Recons | struction | | 22.4 | 57.7 | | 5,542,447 | 8,662,553 | 260,000 | 14,465,000 | |
| Resurfacing | 3 | | | | | | | | | |
| _ | Overlays | Various Locations | 5.3 | 11.6 | Resurface | 750,000 | | | 750,000 | |
| Total Resurf | | | 5.3 | 11.6 | - | 750,000 | - | - | 750,000 | _ |
| Preservatio | n | | | | | | | | | |
| | Surface Treatments | Various Locations | 86.0 | 189.2 | Sealcoat and Micro Surface | 4,000,000 | | | 4,000,000 | |
| | Thin Overlays | | 15.0 | 33.0 | | 1,000,000 | | | 1,000,000 | |
| Total Preser | vation | | 101.0 | 222.2 | = | 5,000,000 | - | - | 5,000,000 | _ |
| Safety | | | | | | | | | | |
| - | Patterson Ave. at Burton | St. | | | Traffic Signal Upgrade | 140,000 | | | 140,000 | |
| | 68th St. at Plaza Center | Dr. | | | Traffic Signal Upgrade | 140,000 | | | 140,000 | |
| | 100th St. at Division Ave | | | | New Traffic Signal | 230,000 | | | 230,000 | |
| | Various Locations | | | | Capacity / Safety Improvement | 490,000 | | | 490,000 | |
| Total Safety | | | | | | 1,000,000 | - | - | 1,000,000 | _ |
| Bridges and | d Culverts | | | | | | | | | |
| - | Ada Bridge #5 | Knapp St. over the Grand River | | | Preservation | 21,000 | 399,000 | | 420,000 | LBF |
| | Tyrone Bridge #21 | 18 Mile Rd. over the Rogue River | | | Rehabilitation | 23,150 | 439,850 | | 463,000 | LBF |
| | Spencer Bridge #22 | Lincoln Lake Ave 300 ft. north of 18 Mile F | ₹d | | Rehabilitation | 150,000 | • | | 150,000 | |
| | Preventive Maintenance | | | | | 750,000 | | | 750,000 | |
| Total Bridge | s | | | | | 944,150 | 838,850 | - | 1,783,000 | _ |
| Total Prima | ry Projects | | 128.6 | 291.5 | | \$ 13,236,597 | \$ 9,501,403 | \$260,000 | \$ 22,998,000 | |
| | | | | | | | . , , , | | | = |

(A) Local road that would be requested to be primary after improvements

Five-Year Improvement Program 2023 Primary Road Projects

| | | | | Lane | | | Sou | ırce | of Funds | | | | |
|----------------------|----------------------------------|---------------------------------------------|-------|-------|-------------------------------|------|------------|------|-------------|-------|------|------------|------------|
| Category | Road | Limits | Miles | Miles | Improvement | | KCRC | Fed | deral/State | Local | Pro | ject Total | Program |
| Reconstruct Expar | t ion nsion/All-Season | | | | | | | | | | | | |
| | 100th St. | East Paris Ave. to Patterson Ave. | 1.0 | 2.0 | All-Season | \$ | 419,000 | \$ | 931,000 | | \$ | 1,350,000 | STP-R(STL) |
| (A) | 84th St. | Hanna Lake Ave. to East Paris Ave. | 1.0 | 2.0 | All-Season | | 425,854 | | 974,146 | | | 1,400,000 | STP-U (|
| | 10 Mile Rd. | Pine Island to Algoma | 2.0 | 4.0 | All-Season | | 3,000,000 | | | | | 3,000,000 | |
| | 68th St. | Thornapple River Dr. S to Whitneyville Ave. | 1.0 | 2.0 | All-Season | | 1,400,000 | | | | | 1,400,000 | |
| Full D | epth Pavement | | | | | | | | | | | | |
| | Buttrick Ave. | Thornapple River Dr. to Grand River Dr. | 0.5 | 1.0 | Resurface | | 63,998 | | 236,002 | | | 300,000 | STP-U |
| | Northland Dr. | 12 Mile Rd. to 13 Mile Rd. | 1.0 | 5.0 | Resurface | | 380,000 | | 720,000 | | | 1,100,000 | EDC |
| | Northland Dr. | 13 Mile Rd. to 14 Mile Rd. | 1.2 | 6.0 | Resurface | | 240,000 | | 936,614 | | | 1,176,614 | EDC |
| | Crush & Shape | Various Locations | 9.0 | 19.8 | Resurface | | 2,000,000 | | | | | 2,000,000 | |
| | Mill & Fill | Various Locations | 10.0 | 22.0 | Resurface | | 1,000,000 | | | | | 1,000,000 | |
| Total Recons | struction | | 26.7 | 63.8 | _ | | 8,928,852 | | 3,797,762 | - | 1 | 2,726,614 | - |
| Resurfacing | | | | | | | | | | | | | |
| | Overlays | Various Locations | 8.0 | | _Resurface | | 660,973 | | | | | 660,973 | _ |
| Total Resurfa | acing | | 8.0 | 17.6 | | | 660,973 | | - | - | | 660,973 | |
| Preservation | | | | | | | | | | | | | |
| | Surface Treatments | Various Locations | 84.0 | | Sealcoat and Micro Surface | | 4,000,000 | | | | | 4,000,000 | |
| T D | Thin Overlays | | 15.0 | 33.0 | | | 1,250,000 | | | | | 1,250,000 | = |
| Total Preserv | /ation | | 99.0 | 217.8 | | | 5,250,000 | | - | - | | 5,250,000 | |
| Safety | | | | | | | | | | | | | |
| | 84th & Kalmazoo | Intersection | | | Roundabout | | 678,054 | | 600,000 | | | 1,278,054 | HSIP |
| | Various Locations | | | | Capacity / Safety Improvement | | 910,973 | | | | | 910,973 | _ |
| Total Safety | | | | | | | 1,589,027 | | - | - | | 910,973 | |
| Bridges and | | | | | | | | | | | | | |
| T (15 :: | Preventive Maintenance | Various Locations | | | | _ | 2,000,000 | | | | | 2,000,000 | - |
| Total Bridges | 3 | | | | | | 2,000,000 | | - | - | | 2,000,000 | |
| Total Primar | ry Projects | | 133.7 | 299.2 | = | \$ 1 | 18,428,852 | \$ | 3,797,762 | \$ - | \$ 2 | 1,548,560 | • |

(A) = Obligated in 2022

| ve. ake Ave. d erer Dr ell Ave Shape | Kraft Ave. to Cherry Valley Dr. Patterson Ave. to Kraft Ave. East Paris Ave. to Patterson Ave. 76th to M-6 Belding Rd. to Strotheide St. Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations Various Locations | 1.0 1.0 1.0 1.3 0.8 1.5 2.1 2.5 0.95 0.5 12.0 14.0 38.7 | 2.0 3.0 2.6 1.6 4.6 6.4 5.0 4.8 1.5 26.4 | All-Season All-Season All-Season All-Season All-Season All-Season Expansion Expansion Expansion | \$ 300,00 280,00 387,99 360,00 224,00 520,00 300,00 200,00 50,00 2,250,00 | 0 \$ 0 2 0 0 0 0 0 0 | 1,200,000 1,120,000 1,062,008 1,440,000 896,000 2,080,000 1,200,000 800,000 200,000 | Local | 1,400 1,45 1,80 1,12 2,60 1,50 1,00 1,00 | 0,000 0,000 0,000 0,000 0,000 0,000 | STP-U STP-U STP-U STP-R EDF-C EDF-C |
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| ve. ake Ave. d erer Dr ell Ave Shape | Patterson Ave. to Kraft Ave. East Paris Ave. to Patterson Ave. 76th to M-6 Belding Rd. to Strotheide St. Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 1.0 1.0 1.3 0.8 1.5 2.1 2.5 0.95 0.5 12.0 14.0 | 2.0 3.0 2.6 1.6 4.6 6.4 5.0 4.8 1.5 26.4 | All-Season All-Season All-Season All-Season Expansion Expansion Expansion | 280,00 387,99 360,00 224,00 520,00 300,00 200,00 50,00 | 0 2 2 0 0 0 0 0 0 | 1,120,000 1,062,008 1,440,000 896,000 2,080,000 1,200,000 800,000 | | 1,400 1,45 1,80 1,12 2,60 1,50 1,00 1,00 | 0,000 0,000 0,000 0,000 0,000 0,000 0,000 | STP-U STP-R EDF-C EDF-C |
| ve. ake Ave. d erer Dr ell Ave Shape | Patterson Ave. to Kraft Ave. East Paris Ave. to Patterson Ave. 76th to M-6 Belding Rd. to Strotheide St. Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 1.0 1.0 1.3 0.8 1.5 2.1 2.5 0.95 0.5 12.0 14.0 | 2.0 3.0 2.6 1.6 4.6 6.4 5.0 4.8 1.5 26.4 | All-Season All-Season All-Season All-Season Expansion Expansion Expansion | 280,00 387,99 360,00 224,00 520,00 300,00 200,00 50,00 | 0 2 2 0 0 0 0 0 0 | 1,120,000 1,062,008 1,440,000 896,000 2,080,000 1,200,000 800,000 | | 1,400 1,45 1,80 1,12 2,60 1,50 1,00 1,00 | 0,000 0,000 0,000 0,000 0,000 0,000 0,000 | STP-U STP-R EDF-C EDF-C |
| ve. ake Ave. d erer Dr ell Ave Shape | Patterson Ave. to Kraft Ave. East Paris Ave. to Patterson Ave. 76th to M-6 Belding Rd. to Strotheide St. Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 1.0 1.0 1.3 0.8 1.5 2.1 2.5 0.95 0.5 12.0 14.0 | 2.0 3.0 2.6 1.6 4.6 6.4 5.0 4.8 1.5 26.4 | All-Season All-Season All-Season All-Season Expansion Expansion Expansion | 280,00 387,99 360,00 224,00 520,00 300,00 200,00 50,00 | 0 2 2 0 0 0 0 0 0 | 1,120,000 1,062,008 1,440,000 896,000 2,080,000 1,200,000 800,000 | | 1,400 1,45 1,80 1,12 2,60 1,50 1,00 1,00 | 0,000 0,000 0,000 0,000 0,000 0,000 0,000 | STP-U STP-R EDF-C EDF-C |
| ve. ake Ave. d erer Dr ell Ave Shape | Patterson Ave. to Kraft Ave. East Paris Ave. to Patterson Ave. 76th to M-6 Belding Rd. to Strotheide St. Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 1.0 1.3 0.8 1.5 2.1 2.5 0.95 0.5 12.0 14.0 | 3.0 2.6 1.6 4.6 6.4 5.0 4.8 1.5 26.4 | All-Season All-Season Expansion Expansion | 387,99 360,00 224,00 520,00 300,00 200,00 50,00 | 2 0 0 0 0 0 0 | 1,062,008 1,440,000 896,000 2,080,000 1,200,000 800,000 | | 1,45 1,80 1,12 2,60 1,50 1,00 1,00 | 0,000 0,000 0,000 0,000 0,000 0,000 | STP-U STP-R EDF-C EDF-C STP-U STP-U |
| ve. ake Ave. | 76th to M-6 Belding Rd. to Strotheide St. Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 1.3 0.8 1.5 2.1 2.5 0.95 0.5 12.0 14.0 | 2.6 1.6 4.6 6.4 5.0 4.8 1.5 26.4 | All-Season All-Season Expansion Expansion | 387,99 360,00 224,00 520,00 300,00 200,00 50,00 | 2 0 0 0 0 0 0 | 1,062,008 1,440,000 896,000 2,080,000 1,200,000 800,000 | | 1,45 1,80 1,12 2,60 1,50 1,00 1,00 | 0,000 0,000 0,000 0,000 0,000 0,000 | STP-U STP-R EDF-C EDF-C STP-U STP-U |
| ake Ave. | Belding Rd. to Strotheide St. Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 0.8 1.5 2.1 2.5 0.95 0.5 12.0 14.0 | 1.6 4.6 6.4 5.0 4.8 1.5 26.4 | All-Season Expansion Expansion Resurface | 360,00 224,00 520,00 300,00 200,00 200,00 50,00 | 0 0 0 0 0 | 1,440,000 896,000 2,080,000 1,200,000 800,000 | | 1,800 1,120 2,600 1,500 1,000 | 0,000 0,000 0,000 0,000 0,000 0,000 | STP-R EDF-C EDF-C STP-U STP-U |
| ake Ave. | Belding Rd. to Strotheide St. Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 0.8 1.5 2.1 2.5 0.95 0.5 12.0 14.0 | 1.6 4.6 6.4 5.0 4.8 1.5 26.4 | All-Season Expansion Expansion Resurface | 224,00 520,00 300,00 200,00 200,00 50,00 | 0 0 0 0 | 896,000 2,080,000 1,200,000 800,000 800,000 | | 1,120 2,600 1,500 1,000 1,000 | 0,000 0,000 0,000 0,000 0,000 0,000 | EDF-C EDF-C STP-U STP-U |
| rer Dr lell Ave Shape | Forest Hill Ave to Alta Dale Ave E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 1.5 2.1 2.5 0.95 0.5 12.0 14.0 | 4.6 6.4 5.0 4.8 1.5 26.4 | Expansion Expansion Resurface | 520,00 300,00 200,00 200,00 50,00 | 0 0 0 0 0 | 2,080,000 1,200,000 800,000 800,000 | | 2,600 1,500 1,000 1,000 | 0,000 | EDF-C EDF-C STP-U STP-U |
| rer Dr lell Ave Shape | E of I-96 to East Beltline Ave Broadmoor Ave to Thornapple River Dr Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 2.5 0.95 0.5 12.0 14.0 | 5.0 4.8 1.5 26.4 | Expansion Resurface | 200,00 200,00 200,00 50,00 | 0 0 0 | 1,200,000 800,000 800,000 | | 1,500 1,000 1,000 | 0,000 | STP-U STP-U |
| rer Dr ell Ave Shape | Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 0.95 0.5 12.0 14.0 | 4.8 1.5 26.4 | | 200,00 50,00 | 0 0 | 800,000 | | 1,000 | 0,000 | STP-U |
| rer Dr ell Ave Shape | Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 0.95 0.5 12.0 14.0 | 4.8 1.5 26.4 | | 200,00 50,00 | 0 0 | 800,000 | | 1,000 | 0,000 | STP-U |
| rer Dr ell Ave Shape | Lamoreaux Dr to Pine Island Dr City Limits to Knapp St Various Locations | 0.5 12.0 14.0 | 1.5 26.4 | | 50,00 | 0 | | | | | |
| Shape ' | Various Locations | 0.5 12.0 14.0 | 1.5 26.4 | | , | | | | | | |
| Shape ' | Various Locations | 12.0 14.0 | 26.4 | | , | | , | | | 0.000 | STP-U |
| ' | | 14.0 | | | -,, | U | _ | | 2,250 | | |
| | | | | Resurface | 1,800,00 | | 200,000 | | , | , | STP-U |
| | | 30.7 | 90.6 | | 6,871,99 | | 10,998,008 | - | 17,870 | | |
| | | | | | | | | | | | |
| , | Various Locations | 10.0 | | Resurface | 1,500,00 | | | | 1,500 | 0,000 | _ |
| | | 10.0 | 22.0 | _ | 1,500,00 | 0 | - | - | 1,500 | 0,000 | _ |
| | | | | | | | | | | | |
| Treatments | Various Locations | 82.0 | 180 4 | Sealcoat and Micro Surface | 4 000 00 | Ω | | | 4 000 | 000 | |
| | various Eocations | | | Scalcoat and Micro Surface | , , | | | | , | , | |
| ilays | | 97.0 | 213.4 | _ | | | - | - | | | - |
| | | | | | | | | | | | |
| ocations | | | | Canacity / Safety Improvement | 1 250 00 | Ω | | | 1 250 | 000 | |
| -ocarone | | | | capacity / carety improvement | | | - | - | | | - |
| | | | | | | | | | | | |
| rg Covered Bridge | | | | Preservation | 20,00 | 0 | 180,000 | | 200 | 0,000 | TAP |
| ve Maintenance | Various Locations | | | | 2,000,00 | 0 | | | 2,000 | 0,000 | |
| | | | | • | | | - | - | | , | - |
| יו רוי | ocations g Covered Bridge | ocations g Covered Bridge | ocations 15.0 97.0 Grays Grays | rlays 15.0 33.0 97.0 213.4 ocations g Covered Bridge e Maintenance Various Locations | rlays \(\frac{15.0 33.0}{97.0 213.4} \) ocations \(\text{Capacity / Safety Improvement} \) g Covered Bridge \(\text{Preservation} \) e Maintenance \(\text{Various Locations} \) | 15.0 33.0 1,500,00 5,500,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,250,00 1,25 | 15.0 33.0 1,500,000 5,500,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 | 15.0 33.0 1,500,000 5,500,000 - | 15.0 33.0 1,500,000 5,500,000 - - | 15.0 33.0 1,500,000 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1, | 15.0 33.0 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1, |

Five-Year Improvement Program 2025 Primary Road Projects

| | | Lane | | | | Sou | | | | | | |
|--------------------|-----------------------|-------------------------------|-------|-------|-------------------------------|-------------|------------|-----|-------------|-------|---------------|---------|
| Category | Road | Limits | Miles | Miles | Improvement | | KCRC | Fed | deral/State | Local | Project Total | Program |
| Reconstruction | 1 | | | | | | | | | | | |
| | n/All-Season | | | | | | | | | | | |
| • | 4th St. | Patterson Ave. to Kraft Ave | 1.8 | 5.4 | All-Season | \$ | 1,688,000 | \$ | 1,188,000 | | \$ 2,876,000 | STP-U |
| Li | ncoln Lake Ave. | Strotheide St. to Heffron St. | 1.0 | 2.0 | All-Season | | 300,000 | | 1,200,000 | | 1,500,000 | STP-R |
| M | yers Lake Ave. | 12 Mile Rd. to 13 Mile Rd. | 1.0 | 2.0 | All-Season | | 500,000 | | 1,000,000 | | 1,500,000 | STP-U |
| 76 | 5th St | Byron Center to Burlingame | 1.0 | 4.0 | Expansion | | 400,000 | | 1,600,000 | | 2,000,000 | STP-U |
| Full Dept | h Pavement | | | | | | | | | | | |
| P | atterson Ave | M-37 to Burton St | 4.1 | 20.4 | Resurface | | 160,000 | | 640,000 | | 800,000 | NHPP |
| С | rush & Shape | Various Locations | 15.0 | 33.0 | Resurface | | 2,000,000 | | 1,500,000 | | 3,500,000 | STP-U |
| M | ill & Fill | Various Locations | 15.0 | | Resurface | | 2,000,000 | | 1,500,000 | | 3,500,000 | STP-U |
| Total Reconstru | ction | | 38.9 | 99.8 | | | 7,048,000 | | 8,628,000 | - | 15,676,000 | |
| Resurfacing | | | | | | | | | | | | |
| 0 | verlays | Various Locations | 10.0 | | Resurface | | 1,500,000 | | | | 1,500,000 | _ |
| Total Resurfacin | g | | 10.0 | 22.0 | | | 1,500,000 | | - | - | 1,500,000 | |
| Preservation | | | | | | | | | | | | |
| S | urface Treatments | Various Locations | 82.0 | 180.4 | Sealcoat and Micro Surface | | 4,000,000 | | | | 4,000,000 | |
| TI | hin Overlays | | 15.0 | 33.0 | _ | | 1,500,000 | | | | 1,500,000 | _ |
| Total Preservation | on | | 97.0 | 213.4 | _ | | 5,500,000 | | - | - | 5,500,000 | _ |
| Safety | | | | | | | | | | | | |
| V | arious Locations | | | | Capacity / Safety Improvement | | 1,250,000 | | | | 1,250,000 | _ |
| Total Safety | | | | | | | 1,250,000 | | - | - | 1,250,000 | |
| Bridges and Cu | Ilverts | | | | | | | | | | | |
| P | reventive Maintenance | Various Locations | | | | | 2,000,000 | | | | 2,000,000 | _ |
| Total Bridges | | | | | | · · · · · · | 2,000,000 | | - | - | 2,000,000 | |
| Total Primary P | rojects | | 145.9 | 335.2 | _ | \$ | 17,298,000 | \$ | 8,628,000 | \$ - | \$ 25,926,000 | _ |

Note: Projects are subject to change.

Five-Year Improvement Plan 2026 Primary Road Projects

| | | | | Lane | | Source of Funds | | | | |
|---------------|-----------------------------------------|---------------------------------------|-------|-------|-------------------------------|-----------------|---------------|-------|---------------|---------|
| Category | Road | Limits | Miles | Miles | Improvement | KCRC | Federal/State | Local | Project Total | Program |
| Reconstruc | tion | | | | | | | | | |
| | sion/All-Season | | | | | | | | | |
| | Myers Lake Ave | 13 Mile Rd to 14 Mile Rd | 1.0 | 2.0 | All-Season | \$ 300,000 | \$ 1,200,000 | | \$ 1,500,000 | STP-U |
| | 84th St. | Kraft Ave to Broadmoor Ave | 0.8 | 2.4 | All-Season | 1,500,000 | | | 1,500,000 | |
| | 84th St. | Broadmoor Ave to Thornapple River Dr | 1.1 | 2.3 | All-Season | 320,000 | 1,280,000 | | 1,600,000 | STP-U |
| | Lincoln Lake Ave | Heffron St to 11 mile Rd | 1.7 | 3.3 | All-Season | 320,000 | 1,280,000 | | 1,600,000 | |
| | 76th St | Burlingame Ave to W of Clyde Park Ave | 0.9 | 3.6 | Expansion | 320,000 | 1,280,000 | | 1,600,000 | EDF-C |
| Full De | epth Pavement | | | | | | | | | |
| | Division Ave | 76th St to 68th St | 1.0 | 5.0 | Resurface | 200,000 | 800,000 | | 1,000,000 | NHPP |
| | Kalamazoo Ave | 68th St to 60th St | 1.0 | | Resurface | 369,000 | 731,000 | | 1,100,000 | |
| | Crush & Shape | Various Locations | 1.0 | | Resurface | 1,500,000 | 1,500,000 | | 3,000,000 | |
| | Mill & Fill | Various Locations | 1.0 | | Resurface | 1,500,000 | 1,500,000 | | 3,000,000 | STP-U |
| Total Recons | struction | | 9.5 | 28.0 | | 6,329,000 | 9,571,000 | - | 15,900,000 | |
| Resurfacing | 3 | | | | | | | | | |
| | Overlays | Various Locations | 6.5 | 14.3 | Resurface | 1,500,000 | | | 1,500,000 | |
| Total Resurfa | acing | | 6.5 | 14.3 | - | 1,500,000 | - | - | 1,500,000 | - |
| Preservation | n | | | | | | | | | |
| | Surface Treatments | Various Locations | 80.0 | 176.0 | Sealcoat and Micro Surface | 4,000,000 | | | 4,000,000 | |
| | Thin Overlays | | 5.0 | 11.0 | | 500,000 | | | 500,000 | |
| Total Preserv | vation | | 85.0 | 187.0 | _ | 4,500,000 | - | - | 4,500,000 | • |
| Safety | | | | | | | | | | |
| | Various Locations | | | | Capacity / Safety Improvement | 2,000,000 | | | 2,000,000 | |
| Total Safety | various Locations | | | | Capacity / Calcty Improvement | 2,000,000 | - | - | 2,000,000 | - |
| Bridges and | l Culverts | | | | | | | | | |
| - | | | | | | 0.000.000 | | | - | |
| Total Bridge | Preventive Maintenand s and Culverts | ce Various Locations | | | | 2,000,000 | | | 2,000,000 | _ |
| J | | | | | | | | _ | | |
| Total Prima | ry Projects | | 101.0 | 229.3 | = | \$ 16,329,000 | \$ 9,571,000 | \$ - | \$ 25,900,000 | = |