

Project Title:	Airport Maintenance & Snow Removal Equip Bldg	Project #:	202534
Department:	Public Works - Airport	Project Type:	Airport
Phase:	Formation	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 11, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase	Design		Construction			
Expenditure Budget	\$0	\$6,000	\$86,000	\$0	\$0	\$92,000
Revenue Budget	\$0	\$6,000	\$86,000	\$0	\$0	\$92,000
Net Costs After Revenues Applied	\$0	\$0	\$0	\$0	\$0	\$0
COST DOCUMENTATION			REVENUE			
Design/Admin & Engineering	\$120,000					
Construction	\$1,651,200					
Contingency	\$68,800					
Total Project Cost	\$1,840,000					
EXPENDITURE BUDGET			REVENUE BUDGET			
\$92,000			Construction Shares Bipartisan Infrastructure Law (BIL) 95% Project Dependent upon available state funds Total Revenue \$1,748,000 \$92,000 (Airport Fund Balance)			

Project Scope & Description

Relocate and build a new 8,100 square foot Airport Maintenance and Snow Removal Equipment Building to create more space for maintenance vehicles and equipment for snow removal on the airfield.

Location: North side of the airport.

Analysis of Need

The current 2,700 square foot maintenance building located in the north hangar area is not large enough to house all of the snow removal equipment. The current equipment shed was constructed in 1967 prior to both the physical and operational growth at the airport. Additionally, the Airport does not have any space for the storage of their own materials and equipment which includes 2 blowers and 8 plow units. This is minimally sufficient for clearing the airfield within 2 hours, per FAA Advisory Circulars 150/5200-30A, Airport Winter Safety and Operations, and 150/5220-20, Airport Snow and Ice Control Equipment, which recommends a minimum of 6,100 square feet of storage area. Additionally, the airport needs two storage bays for materials and associated equipment storage at a minimum of 500 square feet, and an equipment wash bay, which requires 1,500 sqft, equaling a total minimum of 8,100 square feet required for the storage building. FAA Advisory Circular 150/5200-30A also recommends that snow and ice control equipment be housed in heated garages during the winter to prolong the useful life of the equipment and to enable rapid response to operational needs. A larger maintenance and snow removal equipment building is needed to sufficiently house the equipment and materials necessary to keep the airport safe and operational during periods of inclement weather. The current building lacks floor drains which creates a safety hazard when snow is melting off the machines during and after snow removal operations.

Additionally, when the original building was constructed snow removal and grass cutting was completed by the fixed base operator (FBO). The building was constructed exclusively for storage since the FBO had adequate office space and phone lines in the old terminal building for issuing the required notices to airmen (NOTAM's) and other administrative functions. Also, rest room facilities were located in the terminal and the FBO had after-hours access.

Alternatives

Do nothing: The current building will still be used, but the risk of equipment breakdown will continue to increase with improper shelter given to these vehicles since equipment will need to be stored outdoors. This will lead to a shorter useful life for these vehicles, which could lead to operational inefficiencies on the airport when equipment is not available to clear the airport within the required 2-hour time period. Also, building maintenance and repair costs are expected to continue to increase in the next few years as the building continues to age.

Without office space and adequate hard-wired communication equipment time critical NOTAM information is subject to the quality of cell phone signals and records keeping is a problem. Lack of adequate restroom facilities will continue to be a concern.

Ongoing Operating Costs

The operating costs for the building would include the depreciation, electric, gas, communications, and other costs associated with the day-to-day operation of the building. These operating costs may be reduced with possible future agreements with the contractor to have them accept some or all of these operational costs.

Previous Action:

Originally approved as capital project #200703. Proposed to be reintroduced given updated needs for the maintenance and snow removal equipment building and the change in funding to Bipartisan Infrastructure Law funding. Approved as a new project in the 2025-2029 capital plan.

Project Title:	Fuel Tank Replacement and Infrastructure Project	Project #:	201415
Department:	Public Works - Central Fleet	Project Type:	Equipment Replacement
Phase:	Construction	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY									
Year	2018	2019-2022	2023	2024	2025	2026	2027	2028	Total
Project Phase	Implementation	Constr	Constr	Constr	Constr	Constr	Constr	Constr	Project
Expenditure Budget	\$400,000	\$800,000	\$500,000	\$0	\$0	\$0	\$550,000	\$600,000	\$2,850,000
Revenue Budget	<u>\$400,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$400,000
Net County Cost After Revenues Applied	\$0	\$800,000	\$500,000	\$0	\$0	\$0	\$550,000	\$600,000	\$2,450,000
COST DOCUMENTATION					REVENUE				
Item	Quantity		Total Cost						
Underground Tank Testing	5		\$20,000		Central Fleet				
Underground Tanks*	5		\$2,100,000		Fund Balance				
Above Ground Tanks*	23		\$317,400						
Monitors	5		\$100,000						
Card Readers	16		\$240,000						
Fuel Software Systems	1		\$40,000		Total Revenue				
Signage/Fencing (\$5,000) and Contingency (\$27,600)	All Sites		\$32,600						
EXPENDITURE BUDGET			<u>\$2,850,000</u>		REVENUE BUDGET				
									\$400,000

*Higher cost of underground tanks is partially due to larger capacity needed for highway operations at substations, including four 10,000 gallon tanks and one 6,000 gallon tank, and also due to necessary monitoring systems and electronic devices. By contrast smaller above ground tanks are needed at other locations and hold either 550 or 1,000 gallons. Previously, those underground tanks that could be replaced by above ground tanks were replaced, based on the implementation of a replacement plan in the early 1990s. Those underground tanks remaining were due to inadequate space (that would have required the purchase of additional land) and safety issues. As underground tanks are scheduled for replacement, there is an assessment of the property restrictions to determine whether they could be converted to an above-ground tank. The tank at the Nashotah Substation will be converted to an above-ground tank.

Project Scope & Description: There are 15 vehicle fuel sites utilized by Waukesha County departments with a total of 28 tanks (five underground, and 23 above ground). All tanks were installed in the early 1990's. The infrastructure is aging and will begin to exceed tank warranties and useful lives of technology and equipment associated with site operations. The 23 above ground and five underground tanks will be replaced with similar tank styles, design, and capabilities. Note: all underground tanks are monitored with sensors designed to shut-off system operations immediately at time of detection, thus eliminating the loss of fuel into the ground.

Funding for this project is spread out into later years, which allows for more initial research into replacement strategies and costs before committing too much funding. During 2019-2022, the Sussex, Lisbon, and Nashotah sites were replaced. The North Prairie site is planned to be replaced in 2023. The New Berlin site is planned for 2027, and the park sites are planned for 2028.

The budget strategy for the project is to fully fund the project and to utilize funds only as needed to complete improvements when necessitated by aging infrastructure. This strategy is similar to the method used in the Highway Paving program where funds are allocated to paving but not specifically to a location.

The construction costs were updated in the 2023-2027 Capital Plan to increase \$1,350,000 based on the 2021 and 2022 project bid results and the cost projections provided by the project consultant, Kuney Architects, L.L.C. Also, the project timeline was extended into 2027 and 2028. A tank assessment was conducted, which determined that the New Berlin substation and park sites can be delayed due to the good condition of the tanks.

Location: All 15 fuel sites that are utilized by Waukesha County Departments will require some form of replacements, upgrades and/or modifications. Sites include Highway Operations Center, Nashotah Substation, North Prairie Substation, Sussex Substation, New Berlin Substation, Nagawaukee Golf Course, Moor Downs Golf Course, Nagawaukee Park, Nashotah Park, Menomonee Park, Fox Brook Park, Minooka Park, Fox River Park, Muskego Park, and Mukwonago Park.

Alternatives: Three alternative options exist at this time: close the site(s), fuel off-site in the local area, or consolidate fuel sites with other governmental agencies. None is an effective option given the nature of daily departmental operating procedures and emergency operation requirements.

Ongoing Operating Costs: Waukesha County currently spends \$40K annually to maintain all 15 of the vehicle fuel sites. The funding is contained within the Central Fleet Division's fuel budget. An additional \$2,500 in annual software licensing fees is estimated for the new fuel system.

Previous Action: Regulatory requirements associated with the State of Wisconsin "Comm 10" statutes necessitated a fuel capital project in 2012-14 totaling \$232K (project # 201211). The project focused on upgrading fuel dispenser spill containment and monitoring systems. The work contained in the 2012-14 project will not be duplicated in this project. Approved as a new project in the 2014-2018 capital plan. Delayed in 2015-2019 capital plan. Approved as planned: 2016-2020, 2017-2021 capital plans. Approved with a revenue update in 2018-2022 capital plan. Approved as planned in the 2019-2023 capital plan. Approved as planned in the 2020-2024 capital plan. Approved with a change in scope in the 2021-2025 capital plan. Approved as planned in the 2022-2026 capital plan. Approved with cost update and delayed in the 2023-2027 capital plan. Approved as planned in the 2024-2028 and 2025-2029 capital plans.

Project Title:	Courthouse Project Step 2 – Renovate 1959 Courthouse	Project #:	201705
Department:	Public Works - Buildings	Project Type:	Renovation/Upgrade
Phase:	Construction	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler
Date:	July 3, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY							
Year	2021	2022	2023	2024	2025	2026	Total
Project Phase	Budget & Concept Design	Design & Construction	Construction	Construction	Construction	Construction	Project
Expenditure Budget	\$1,200,000	\$16,000,000	\$20,400,000	\$35,350,000	\$20,350,000	\$20,500,000	\$113,800,000
Revenue Budget	\$0	\$6,000,000	\$14,000,000	\$20,000,000	\$0	\$0	\$40,000,000
Net Cost After Revenues Applied	\$1,200,000	\$10,000,000	\$6,400,000	\$15,350,000	\$20,350,000	\$20,500,000	\$73,800,000
COST DOCUMENTATION				REVENUE			
Architect	\$4,634,000			American Rescue Plan Act (ARPA)			
Construction Management	\$4,634,000			Coronavirus State and Local Fiscal Recovery Funds			\$36,000,000
Construction	\$96,790,000			General Fund Balance			\$4,000,000
Contingency	<u>\$7,742,000</u>						
Total Project Cost	\$113,800,000			Total Revenue			\$40,000,000
EXPENDITURE BUDGET	\$113,800,000			REVENUE BUDGET			\$40,000,000

Project Scope & Description

The existing courthouse, located at 515 W. Moreland Blvd., was constructed in 1959 and remains structurally sound. The courthouse currently houses the Judiciary, Clerk of Courts, Family Court Counseling, District Attorney's Offices (including Victim/Witness), the County Board Room, Information Technology, and other miscellaneous functions. Throughout the life of the courthouse, extensive remodeling has taken place to add additional courtrooms and reconfigure interior space to meet the expanding needs of the services located in the courthouse. Operational and business inefficiencies, particularly for the courts systems, have been created due to both space and building limitations. In addition, existing courtrooms do not meet current design standards. The courthouse building infrastructure is approaching the end of its useful life.

This project will enhance security at the courthouse by improving video surveillance; upgrading fire protection; installing staff and public announcement systems to provide notifications during emergencies; and redesigning the security entrance to improve the flow of courthouse visitors.

The County retained Zimmerman Architectural Studios to develop a "Courthouse Study," (capital project #200914), to provide a comprehensive analysis of courthouse space requirements and design needs. This study was completed in 2013, and Zimmerman recommended a two-step design approach (below). This project is intended to address step 2 (renovation of the existing courthouse facility as outlined in the aforementioned study).

Step 1: This step was completed in 2021 and included the construction of a new four-story, eight-courtroom facility and relocation of eight existing courtrooms to the new facility. This work also included the demolition of the existing 1959 jail (capital project #201418 Secure Courtroom Construction).

Step 2: This capital project would renovate the existing courthouse building in a multi-phase vertical segment approach to provide newly renovated facilities for all divisions, except the secure courtrooms addressed in step 1. Courthouse renovation will also include the installation of new state of the art mechanical, electrical, fire protection, window systems and new wall, floor, and ceiling finishes in all renovated areas. This approach will not require temporary offsite relocation of courthouse personnel.

As part of the 2021 Design and Budget Concept phase, the county retained Kueny and Wold Architects as design consultants to provide an updated analysis of space requirements, design needs, and conceptual budget of step 2 from the 2013 study. There are a number of factors that may impact the design and the construction costs of this project, including, but not limited to, incorporating additional operations to the courthouse space, future economic conditions, and the maturing of the design process for the remaining phases of work that are part of step 2.

The step 2 project scope will continue with the renovation of the existing building and include an additional 27,000 square foot build out (for a new total of 191,000 square feet), inclusion of juvenile court services, and achieve three-way separation in all court rooms. The build out will allow the continuation of courtroom layout and three-way separation from step 1 into step 2. This step eliminates the existing prisoner transport tunnel and creates new prisoner transport and holding areas to better achieve courtroom and overall building security. In addition, this step will expand the entrance to improve security,

Project Title:	Courthouse Project Step 2 – Renovate 1959 Courthouse	Project #:	201705
Department:	Public Works - Buildings	Project Type:	Renovation/Upgrade
Phase:	Construction	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler
Date:	July 3, 2025	Map / Image:	Click Here

traffic flow patterns, and wayfinding. This step will include new state of the art mechanical, electrical, fire protection, window and roof systems and new wall, floor, and ceiling finishes as previously planned.

During the 2022-2026 Capital Plan review process, county staff indicated that there were still decisions to be made about the location of the future County Board room and office space. This project scope was updated in the 2023-2027 Capital Plan to relocate the County Board room to the Administration Center near the current County Board office space to provide appropriate space for Judicial/Courts, Sheriff, and District Attorney staffing.

Based on initial 2023 construction bid results, the project costs were increased \$15,000,000. Project costs are higher due to the complexity and multi-year phasing of construction, rising costs of materials, consumer demand and limitation of supply, inflation, overseas conflicts, and shipping delays. This increase is covered through three funding sources: \$6,000,000 in additional funds from the American Rescue Plan Act (ARPA) – Coronavirus State and Local Fiscal Recovery Funds (CSLFRF) program, \$5,000,000 from additional planned debt issuance (accounted for in the capital budget summary table on the first page within the “net costs after revenues applied”), and \$4,000,000 from General Fund balance use.

This project includes federal American Rescue Plan Act (ARPA) funding to partially offset the costs of this core infrastructure project that is expected to serve public safety and other governmental operations for at least the next 50 years. Targeting ARPA funds for this project offsets borrowing needs, saving the county taxpayers. Project expenses are eligible through ARPA’s Coronavirus State and Local Fiscal Recovery Funds program, which provides funding to local governments to compensate them for revenue loss due to the COVID-19 pandemic, according to a formula developed by the U.S. Treasury.

Locations

Waukesha County Courthouse, 515 West Moreland Blvd., Waukesha, WI 53188.

Analysis of Need

The existing courthouse building, constructed in 1959, remains structurally sound. Over the years, extensive remodeling has taken place to add additional courtrooms and reconfigure interior space. Public access to the building is now limited to the main entrance (door #2) where security screening takes place. Customer circulation has been identified for improvement, particularly the Courts area. Due to the remodeling, some courtrooms are considered inadequate since the space and/or security does not measure up to current courtroom design standards.

The existing courthouse is in need of complete replacement of its mechanical, electrical, plumbing, fire protection, window and roof systems. The need for these replacements will coincide with the completion of the courts building (step 1) and the vacating of eight courtrooms in the existing courthouse. The space left vacant by the courtrooms will be used in consideration with the consultant’s recommendation for step 2, as described previously in the project scope and description.

Alternatives

1. The currently-approved project scope.
2. The project was bid with alternates to reduce scope/cost by deferring third floor completion to a future capital project and eliminating the southern vertical prisoner transport corridor (discussed in more detail below). These alternatives were included because of the possibility that total project costs could exceed budget. Bid alternatives did not produce significant cost reductions, in part due to the economic conditions and the complexity of the project/specifications. Rebidding the project, with clarified alternatives may have resulted in more defined alternative cost reductions. These alternatives include:
 - a. Deferring most or all of the third-floor build out. This would mean that the third floor would be shelled unfinished space, which would be part of a later capital project. This modification would be accommodated by maintaining current Juvenile Court operations at the Juvenile Center. In addition, the construction of a large-capacity courtroom and conference room would be deferred until the future capital project. If the bid had been re-issued, the cost savings were estimated at \$3 million to \$5 million. However, delaying this phase of the project would likely have increased the total project costs due to inflation and remobilization of construction efforts
 - b. Removing the southern vertical prison transport corridor. The functionality of the courtrooms that would be affected by this corridor do not currently require prisoner transport (e.g., Civil and Family). This corridor had been built into the existing project to provide maximum flexibility for the judicial process, which may be needed in the future. If the bid had been re-issued, the cost savings were estimated at less than \$1 million.

Project Title:	Courthouse Project Step 2 – Renovate 1959 Courthouse	Project #:	201705
Department:	Public Works - Buildings	Project Type:	Renovation/Upgrade
Phase:	Construction	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler
Date:	July 3, 2025	Map / Image:	Click Here

Additionally, the County can choose to do nothing and continue to operate all County functions and services at their present location utilizing existing facilities, risking HVAC failure, and without gaining future HVAC, utility, and staffing efficiencies.

Ongoing Operating Costs

The new project is expected to reduce energy consumption through installation of energy efficient equipment and windows. Consolidation of office space and moving departmental operations closer together are expected to improve operational efficiency.

Previous Action

The Courthouse Study was completed in August, 2013. Step 1 (Project 201418): Approved as a new capital project in the 2014-2018 capital plan. Approved as planned in the 2015-2019, 2016-2020, 2017-2021 capital plans. Approved with a cost and revenue update in the 2018-2022 capital plan. Approved as planned in the 2019-2023 and 2020-2024 capital plans. Approved with a cost update in the 2021-2025 capital plan. Step 2 (Project 201705): Approved as a new project in the 2017-2021 capital plan. Approved as planned in the 2018-2022 and 2019-2023 capital plans. Approved with a schedule update in the 2020-2024 capital plan. Approved as planned in the 2021-2025 capital plan. Approved with a cost, revenue, and scope update in the 2022-2026 capital plan. Approved with a scope update in the 2023-2027 capital plan. Approved with a cost and revenue update through enrolled ordinance 178-8 in April 2023. Approved as planned in the 2024-2028 and the 2025-2029 capital plans.

Project Title:	Law Enforcement Center Window Replacement	Project #:	202211
Department:	Public Works - Buildings	Project Type:	Mechanicals/Bldg Systems
Phase:	Preliminary Design	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase	Design	Construction	Construction			Project
Expenditure Budget	\$20,000	\$200,000	\$875,000	\$0	\$0	\$1,095,000
Revenue Budget	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Net Costs After Revenues Applied	\$20,000	\$200,000	\$875,000	\$0	\$0	\$1,095,000
COST DOCUMENTATION			REVENUE			
Architect (Budget Concept & Design)		\$20,000				
Construction		\$1,000,000				
Contingency		\$75,000				
Total Project Cost		\$1,095,000	Total Revenue			\$0
EXPENDITURE BUDGET		\$1,095,000	REVENUE BUDGET			\$0

Project Scope & Description

This project will repair and replace the existing exterior windows in the jail pods. The law enforcement center was constructed in 1993 and windows are original. The windows are about 32 years old and will be about 33 years old at time of replacement.

Location

Law Enforcement Center, 515 West Moreland Blvd., Waukesha, WI 53188

Analysis of Need

The existing exterior windows in the Law Enforcement Center jail pods are about 32 years old and will be about 33 years old at time of replacement. The window glazing and vacuum insulation seals have failed over time. The average life expectancy of a commercial grade aluminum window is 20 years. The window system aids in heating and cooling, sound control, and protection from the elements.

Alternatives

Patch around the windows as repairs are needed.

Ongoing Operating Costs

Operating costs will be reduced for labor and materials associated with repairing leaks and associated damages.

Previous Action

Approved as a new project in the 2022-2026 capital plan. Approved as planned in the 2023-2027, 2024-2028, and the 2025-2029 capital plans.

Project Title:	Mental Health Center Roof Replacement	Project #:	202313
Department:	Public Works - Buildings	Project Type:	Roof Replacement
Phase:	Formation	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY			
Year	2027	2028	Total
Project Phase	Design	Construction	Project
Expenditure Budget	\$25,000	\$621,000	\$646,000
Revenue Budget	\$0	\$0	\$0
Net Costs After Revenues Applied	\$25,000	\$621,000	\$646,000
COST DOCUMENTATION		REVENUE	
Design		\$25,000	
Construction		\$571,000	
Contingency		\$50,000	
Total Project Cost		\$646,000	Total Revenue \$0
EXPENDITURE BUDGET		\$646,000	REVENUE BUDGET \$0

Project Scope & Description

This project is to replace 13,000 GSF (gross square feet) of standing seam metal roofing on the Mental Health Center.

Location

Mental Health Center, 1501 Airport Road, Waukesha, WI 53188

Analysis of Need

This Mental Health Center was constructed in 1994 and has the original metal roofing system. Standing seam metal roofs are typically under warranty for 20 years and have a useful life expectancy of 30 years. The roof is about 31 years old and has been repaired and deteriorated due to sun exposure and years of expansion and contraction through the temperature variations of the seasons. At time of replacement the roof will be about 34 years old.

Alternatives

Patch and repair the roof when leaks develop.

Ongoing Operating Costs

Operating costs will be reduced for labor and materials associated with repairing leaks and associated damages.

Previous Action

Approved as a new project in the 2023-2027 capital plan. Approved as planned in the 2024-2028 capital plan. Approved with a cost update in the 2025-2029 capital plan.

Project Title:	Sussex Substation Roof Upgrade	Project #:	202530
Department:	Public Works - Buildings	Project Type:	Roof Replacement
Phase:	Formation	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase			Design	Const		Project
Expenditure Budget	\$0	\$0	\$10,000	\$194,400	\$0	\$204,400
Revenue Budget	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Net Costs After Revenues Applied	\$0	\$0	\$10,000	\$194,400	\$0	\$204,400
COST DOCUMENTATION			REVENUE			
Design (Budget & Concept)		\$10,000				
Construction		\$180,000				
Contingency		\$14,400				
Total Project Cost		\$204,400	Total Revenue			\$0
EXPENDITURE BUDGET		\$204,400	REVENUE BUDGET			\$0

Project Scope & Description

This project is to replace 6,000 GSF (gross square feet) of 60 mil EPDM (rubber) roofing on the Sussex Substation.

Location

Sussex Substation, N51 W23093 Lisbon Rd., Waukesha, WI 53188

Analysis of Need

The Sussex Substation was constructed in 1986 with addition in 1996 and has the original roofing system. EPDM roofs are typically under warranty for 15 years and have a useful life expectancy between 15 and 20 years. The roof is about 29 years old and has been patched and deteriorated due to sun exposure. At time of replacement it will be about 32 years old.

Alternatives

Patch the roof when it leaks.

Ongoing Operating Costs

Operating costs will be reduced for labor and materials associated with repairing leaks and associated damages.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	Administration Building Study	Project #:	202532
Department:	Public Works - Buildings	Project Type:	Renovation/Upgrade
Phase:	Formation	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase		Study				Project
Expenditure Budget	\$0	\$150,000	\$0	\$0	\$0	\$150,000
Revenue Budget	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Net Costs After Revenues Applied	\$0	\$150,000	\$0	\$0	\$0	\$150,000
COST DOCUMENTATION		REVENUE				
Study (Budget & Concept)		\$150,000				
Design (Budget & Concept)		TBD				
Construction		TBD				
Contingency		TBD				
Total Project Cost		\$150,000	Total Revenue			\$0
EXPENDITURE BUDGET		\$150,000	REVENUE BUDGET			\$0

Project Scope & Description

The Administration Center building was constructed in 1993 and remains structurally sound. The Administration Center is 4 floors. The third floor houses the County Executive, Department of Administration, Corporation Council, Child Support, and Collections. The second floor houses the Department of Public Works (DPW) and the Department of Parks and Land Use (PLU). The First Floor houses the County Clerk, County Treasurer, Register of Deeds, County Board, Department of Administration (DOA)-Human Resources, and Parks and Land Use (PLU)-Land Information Systems (LIS). The Ground Floor houses the DPW-Facilities Management Division, University of Wisconsin Extension, DOA-Records Division, and County Cafeteria. The lower-level houses DOA- Information Technology and Records Division and the County Wellness Room. The initial project scope will include a study, which will be used to guide future design and construction to reconfigure and/or relocate departments to better meet the needs of the public, improve wayfinding, and create staffing efficiencies.

Location

515 West Moreland Blvd., Waukesha, Wisconsin 53188

Analysis of Need

The Administration Center building is over 25 years old. The building was designed to allow the public to enter on the east side, ground floor of the building (the current employee entrance) and allow easy access to the center of the first floor by taking either the elevators or the stairs.

After the terrorist attacks in September of 2001, the county decided to secure the Courthouse and Administration Center buildings by placing security personnel at one central entrance through which all members of the public must enter, which is located at the front of the courthouse. The entrance modifications were made in 2007. This decision essentially shifted the public's initial orientation with the first floor and its offices. Instead of the public stepping off the elevators in the center of the first floor, with easy access to all offices, county residents now access the floor from the northwest corner of the building. For the past 12 years, this change has resulted in confusion for the public wishing to access county services and has led to a poor customer service experience.

Waukesha County has been engaged in a process to improve customer service across all departments. Many employees have undergone customer service training; the county has implemented a customer service survey to measure the level of service it is providing; and awareness of the importance of excellent internal and external customer service is on the rise. A major area yet to be addressed by the county is the public's face-to-face customer service experience while visiting the Administration Center building.

The construction of the Courthouse step 2 project includes a new, expansive lobby with new wayfinding and signage throughout the courts building and administration center. The administration center will get a new department numbering system that will merge the three buildings (Admin Center, Courthouse, and Courts Tower) into one building improving wayfinding for the public. The courthouse project will be completed in 2027.

Project Title:	Administration Building Study	Project #:	202532
Department:	Public Works - Buildings	Project Type:	Renovation/Upgrade
Phase:	Formation	Sponsor:	Public Works
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

The study will help identify which departments interact with the public; determine where they should be located in the building for a more efficient way for staff to interact with the public; determine which departments interact with each other; and whether their space should be reconfigured or relocated for staffing efficiencies.

Alternatives

Continue to operate functions and services at their present configuration.

Ongoing Operating Costs

The study of the space will result in recommendations for an improved customer experience as well as a more efficient way for staff to interface with the customer, departments, and space within each department. Estimated costs for staffing efficiencies will be determined as the project study is completed.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	Communications Center Roof Replacement	Project #:	202209
Department:	Public Works - Buildings	Project Type:	Roof Replacement
Phase:	Preliminary Design	Sponsor:	Public Works
Budget Action:	C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2023	2024	2025	2026	2027	Total
Project Phase		Design	Construction	Construction		Project
Expenditure Budget	\$0	\$10,000	\$270,000	\$324,000	\$0	\$604,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$0	\$10,000	\$270,000	\$324,000	\$0	\$604,000
COST DOCUMENTATION			REVENUE			
Architect (Budget & Concept Design)		\$10,000				
Construction		\$550,000				
Contingency		\$44,000				
Total Project Cost		\$604,000	Total Revenue			\$0
EXPENDITURE BUDGET		\$604,000	REVENUE BUDGET			\$0

Project Scope & Description

This project is to replace 11,800 GSF (gross square feet) of 60 mil EPDM (rubber) roofing on the Communications Center building.

Location

1621 Woodburn Road, Waukesha, WI 53188

Analysis of Need

The Communications Center was constructed in 2003 and has the original roofing system. EPDM roofs are typically under warranty for 15 years and have a useful life expectancy between 15 and 20 years. The roof is currently about 22 years old and has been patched and deteriorated due to sun exposure.

The project cost has increased \$324,000 based on construction bids received in October 2024.

Alternatives

Patch the roof when leaks develop.

Ongoing Operating Costs

Operating costs will be reduced for labor and materials associated with repairing leaks and associated damages.

Previous Action

Approved as a new project in the 2022-2026 capital plan. Approved with a cost update in the 2023-2027 capital plan. Approved as planned in the 2024-2028 capital plan. Approved with a cost update in the 2025-2029 capital plan.

Project Title:	Highway/Fleet Roof Replacement	Project #:	202210
Department:	Public Works - Buildings	Project Type:	Roof Replacement
Phase:	Formation	Sponsor:	Public Works
Budget Action:	C - \$ Update	Manager:	Allison Bussler
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027			Total
Project Phase	Design	Construction	Construction			Project
Expenditure Budget	\$100,000	\$1,550,000	\$1,466,000	\$0	\$0	\$3,116,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$100,000	\$1,550,000	\$1,466,000	\$0	\$0	\$3,116,000
COST DOCUMENTATION			REVENUE			
Design (Budget & Concept)		\$100,000				
Construction		\$2,800,000				
Contingency		\$216,000				
Total Project Cost		\$3,116,000	Total Revenue			\$0
EXPENDITURE BUDGET		\$3,116,000	REVENUE BUDGET			\$0

Project Scope & Description

This project will replace 102,980 GSF (gross square feet) of 60 mil EPDM (rubber) roofing on the highway and fleet operations building.

Location

Highway/Fleet Building, 1641 Woodburn Road, Waukesha, WI 53188

Analysis of Need

The main highway building was constructed in 1997, and the fleet building was constructed in 1998. They both have their original roofs. EPDM roofs are typically under warranty for 15 years and have a useful life expectancy between 15 and 20 years. As of 2023, the highway roof is about 27 years old, and the fleet roof is about 26 years old. The roofs will be about 30 and 29 years old, respectively, at the time of replacement. Extensive patching has occurred over the years which has aided in extending the life of the roof. A March 2020 roof survey was completed on the highway/fleet facility that indicated that significant roofing upgrades are required to maintain the integrity of the roofs. The roof will continue to be monitored and patched and repaired on an as needed basis.

The project cost has increased \$1,177,000 based on the design consultants updated 2025 cost estimate.

Alternatives

Patch roof as leaks develop.

Ongoing Operating Costs

Operating costs will be reduced for labor and materials associated with repairing leaks and associated damages.

Previous Action

Approved as a new project in the 2022-2026 capital plan. Approved with a cost update in the 2023-2027 capital plan. Approved as planned in the 2024-2028 capital plan. Approved with a cost update in the 2025-2029 capital plan.

Project Title:	Juvenile Center Roof Replacement	Project #:	202309
Department:	Public Works - Buildings	Project Type:	Roof Replacement
Phase:	Formation	Sponsor:	Public Works
Budget Action:	C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2027	2028	2029	2030	2031	Total
Project Phase			Design	Const	Const	Project
Expenditure Budget	\$0	\$0	\$10,000	\$561,000	\$644,000	\$1,215,000
Revenue Budget	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Net Costs After Revenues Applied	\$0	\$0	\$10,000	\$561,000	\$644,000	\$1,215,000
COST DOCUMENTATION			REVENUE			
Architect (Budget Concept & Design)		\$10,000				
Construction		\$1,124,000				
Contingency		\$81,000				
Total Project Cost		\$1,215,000				\$0
EXPENDITURE BUDGET		\$1,215,000	REVENUE BUDGET			\$0

Project Scope & Description

This project is to replace 18,600 GSF (gross square feet) of 60 mil EPDM (rubber) roofing on the Juvenile Center building.

Location

521 Riverview Road, Waukesha, WI 53188

Analysis of Need

The Juvenile Center was constructed in 1982, and the roof is original to the building. EPDM roofs are typically under warranty for 15 years and have a useful life expectancy between 15 and 20 years. The roof is currently around 43 years old and has been patched and deteriorated due to sun exposure. At time of replacement, the roof will be about 46 years old. Initial construction costs are based on the 2022 roof assessment.

This project has been delayed to further assess the need and use. As of January 2025, the Juvenile Center is vacant as all staff will relocate to the renovated area of the Courthouse step 2 project.

The project cost has been increased by \$557,000 based on the project consultant's 2025 cost estimate.

Alternatives

Patch the roof when leaks develop.

Ongoing Operating Costs

Operating costs will be reduced for labor and materials associated with repairing leaks and associated damages.

Previous Action

Approved as a new project in the 2023-2027 capital plan. Approved as planned in the 2024-2028 capital plan. Approved with a delay in the 2025-2029 capital plan.

Project Title:	County Jail Roof Replacement	Project #:	202314
Department:	Public Works - Buildings	Project Type:	Roof Replacement
Phase:	Formation	Sponsor:	Public Works
Budget Action:	C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2027	2028				Total
Project Phase	Design	Construction				Project
Expenditure Budget	\$50,000	\$1,458,000	\$0	\$0	\$0	\$1,508,000
Revenue Budget	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Net Costs After Revenues Applied	\$50,000	\$1,458,000	\$0	\$0	\$0	\$1,508,000
COST DOCUMENTATION			REVENUE			
Architect (Budget Concept & Design)		\$50,000				
Construction		\$1,350,000				
Contingency		\$108,000				
Total Project Cost		\$1,508,000	Total Revenue			\$0
EXPENDITURE BUDGET		\$1,508,000	REVENUE BUDGET			\$0

Project Scope & Description

This project is to replace 49,000 GSF (gross square feet) of ballasted 60 mil EPDM (rubber) roofing at the County Jail.

Location

County Jail, 515 West Moreland Blvd., WI 53086

Analysis of Need

The County Jail, constructed in 2006, houses administrative staff and jail cells and has the original roofing system. EPDM roofs are typically under warranty for 15 years and have a useful life expectancy between 15 and 20 years. The County Jail roof is currently about 20 years old and has been patched and deteriorated by the sun and will be about 22 years at time of replacement.

The project cost has increased \$713,000 based on the department's updated 2025 cost estimate.

Alternatives

Patch the roof when leaks develop.

Ongoing Operating Costs

Operating costs will be reduced for labor and materials associated with repairing leaks and associated damages.

Previous Action

Approved as a new project in the 2023-2027 capital plan. Approved as planned in the 2024-2028 capital plan. Approved with a cost update in the 2025-2029 capital plan.

Project Title:	CTH O, CTH D to STH 59 Rehabilitation	Project #:	202013
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Preliminary Design	Road Name:	Moorland Road
Budget Action:	Delay C - Scope C - \$ Update C - Rev Update	Manager:	Allison Bussler, DPW Director
Date:	July 3, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2022	2024	2025	2026	2027	Total
Project Phase	Design	Des/Land	Design	Design	Construction	Project
Expenditure Budget	\$206,000	\$988,000	\$90,000	\$250,000	\$5,693,500	\$7,227,500
Revenue Budget	\$0	\$802,400	\$0	\$0	\$1,768,600	\$2,571,000
Net Cost After Revenues Applied	\$206,000	\$185,600	\$90,000	\$250,000	\$3,924,900	\$4,656,500
COST DOCUMENTATION			REVENUE			
Design	\$1,280,000		Federal Surface Transportation			
WisDOT Design Review	\$15,000		Program (STP) - Design			\$727,000
Land Acquisition	\$1,003,000		STP Funding - Land			\$802,400
Construction	\$20,322,500		STP Funding - Construction & Railroad			\$11,782,400
Construction Management	\$2,032,300		New Berlin Local Scope (Reimb.)			\$1,208,600
Contingency	\$1,016,100		Development Agreement (Reimb.)			\$560,000
State Oversight	\$68,000		Congressional Direct Spending			\$6,000,000
Total Project Cost	\$25,736,900		Total Revenue			\$21,080,400
EXPENDITURE BUDGET	\$7,227,500		REVENUE BUDGET			\$2,571,000

Project Scope & Description

This 1.5-mile long project involves the pavement replacement of CTH O to bring it up to current standards. Improvements will include replacing the existing concrete pavement, reconfiguring intersections to improve safety, replacing older traffic signals, minor grading, and storm water improvements. Access to businesses and residences adjacent to Moorland Road will need to be maintained during construction. This project will use federal funds to partially offset the cost of design and construction. The county has applied for \$6,000,000 in congressionally directed spending to bring the total project county cost share closer to the standard 20%. The congressionally directed spending request is for federal fiscal year 2026 and the county anticipates a successful grant approval based on support from Rep. Fitzgerald. The county is coordinating Traffic Impact Analysis (TIA) improvements that will be constructed with the project as part of a mixed-use development between Greenfield Avenue and the Union Pacific Railroad. A project agreement is being drafted that will summarize added development construction costs with an equal and offsetting developer cost share, currently estimated to be \$560,000. Development cost is now included in the project construction cost and offset with developer agreement revenue.

Construction is being delayed for one year due to railroad coordination schedule issues. The total project construction cost is being increased by \$2,570,900 for inflation, development funded improvements and costs associated with a new railroad signal. Design costs are increasing \$250,000 to account for additional design and railroad coordination due to delayed construction and increased utility coordination and field inspection. Revenues increase by \$1,560,000 due to the increase in requested congressionally directed spending and developer cost-sharing agreement. The net project cost increases \$1,260,900 due to the one-year construction delay, railroad crossing, and the increased revenue requests. The project scope has been updated to include new railroad signals at the UPRR crossing. The costs associated with the railroad increase the construction budget by \$871,100, which is accounted for in the total increase above.

Location: City of New Berlin

Analysis of Need: The concrete pavement along this portion of Moorland Road (CTH O) is in poor condition; the transverse and longitudinal joints show signs of significant deterioration. The roadway was first built in 1978 and was rehabilitated in 2006, but that rehabilitation is nearing the end of its useful life, and the concrete pavement will need to be replaced. Pavement issues are further compounded by the fact that this portion of Moorland Road is one of the busiest on the county highway system with nearly 40,000 vehicles per day. The corridor serves as a major access road between I-43 and I-94.

Alternatives: Attempt further rehabilitation. This alternate is not recommended because it is not considered cost-effective due to the poor condition of the existing pavement and the high cost of traffic control needed to maintain traffic for this roadway.

Ongoing Operating Costs: Operating costs are not expected to change.

Previous Action: Originally, the rehabilitation for this stretch of highway was included in capital project #201803, but is being split out into this separate project. Approved as a new project in the 2020-2024 capital plan. Accelerated in the 2021-2025 capital plan. Approved as planned in the 2022-2026 capital plan. Accelerated through ordinance 176-104 in 2022. Approved with a cost and revenue update in 2023-2027 capital plan. Approved with a cost and revenue update in 2024-2028 and the 2025-2029 capital plans.

Project Title:	CTH O, CTH HH to Grange	Project #:	202102
Department:	Public Works - Highways	Project Type:	Priority Corridor
Phase:	Preliminary Design	Road Name:	Moorland Rd.
Budget Action:	Delay C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2022	2023	2025	2026	2029	Total
Project Phase	Design	Dsgn/Land	Utility Relo	Design/Utility	Construction	Project
Expenditure Budget	\$123,000	\$614,200	\$330,000	\$1,844,000	\$6,233,000	\$9,144,200
Revenue Budget	<u>\$0</u>	<u>\$428,800</u>	<u>\$264,000</u>	<u>\$1,315,200</u>	<u>\$1,275,000</u>	<u>\$3,283,000</u>
Net Costs after Revenues Applied	\$123,000	\$185,400	\$66,000	\$528,800	\$4,958,000	\$5,861,200
COST DOCUMENTATION			REVENUE			
			Federal Surface Transportation Program (STP) Funding			
			Design		\$804,600	
			Land (Reimbursement)		\$428,800	
			Utility Relocation (Reimb.)		\$1,579,200	
			Construction		\$9,634,000	
			Construction Management		\$1,378,000	
			Contingency		\$689,000	
			WisDOT Construction Review		\$20,000	
Total Project Cost		\$19,582,800		Total Revenue		\$13,721,600
EXPENDITURE BUDGET		\$9,144,200		REVENUE BUDGET		\$3,283,000

Project Scope & Description: This project will add the additional lanes to CTH O, between CTH HH (College Avenue) and Grange Avenue (1.2 miles) to create the planned 4-lane roadway. The road will have a median to provide for separation of opposing movements. The roadway will stay on its current alignment and will be situated within the existing 130-foot wide corridor and, although most of the right-of-way has been previously acquired, some additional land acquisition and grading easements will be needed. There is a significantly substandard vertical curve just south of the intersection with Small Road/Grange Avenue. This is due to a shallow 12-inch TC Energy/ANR natural gas pipeline that was constructed prior to the initial highway construction. The project will relocate the pipeline to accommodate correcting the substandard vertical curve and improving stopping sight distance and overall safety. This project is the final CTH O segment to be widened and rehabilitated and will allow the county to complete operational, safety and condition improvements along the entire CTH O corridor. Waukesha County applied for and was awarded Federal STP funding for the project. The City of New Berlin has signed an agreement with the County to contribute \$1,000,000 as a city contribution for the construction phase of the project. The developer has provided a contribution of \$75,000 towards the project. The City of New Berlin has requested the addition of City funded local scope, estimated to cost \$200,000 and noted as additional project revenue.

The proposed 1-year delay of capital project #202013 CTH O (CTH D to WIS 59) is creating a 2-year delay of construction for this project. WisDOT does not have room in the STP program for construction until 2029. Real estate acquisition and utility relocations will occur in 2025-2027 to ensure both are clear for 2029 construction. An increase to design costs of \$200,000 to fund additional design tasks related to environmental documentation and construction delay are required. Inflationary construction cost increases of \$1,447,000 for the 2-year construction delay are required. Total cost increase due to the construction delay is \$1,647,000.

Location: City of New Berlin

Analysis of Need: When CTH O was constructed between Janesville Road and Grange Avenue in 1997, it was designed so that the 2 lane roadway that was built would become the north bound lanes of a future 4-lane roadway. At that time the SEWRPC jurisdictional plan called for CTH O to be a 2-lane highway. Since then traffic has increased significantly along the route, and the latest SEWRPC jurisdictional plan calls for CTH O to be a 4-lane highway. In 2009 the City of Muskego, as part of a Tax Incremental Financing (TIF) District, created the planned 4-lane roadway between Janesville Road and College Avenue by building the new south bound lanes. The portion of CTH O between College Avenue and Grange Avenue remains a 2-lane roadway although traffic volumes recorded in 2018 along this portion of CTH O were approximately 17,500 vehicles per day, and development along the project route is in progress. It's expected that this area will continue to develop. This development is the reason that New Berlin will contribute to this project through a new TIF District. In addition to the traffic growth, this section of CTH O is in between two four-lane segments, causing congestion and confusion due to lane drops and bottlenecking of traffic.

Alternatives:

1. Do nothing. This alternate does not address the long-term needs for the corridor.
2. Reconstruct GTH O as described above.

Project Title:	CTH O, CTH HH to Grange	Project #:	202102
Department:	Public Works - Highways	Project Type:	Priority Corridor
Phase:	Preliminary Design	Road Name:	Moorland Rd.
Budget Action:	Delay C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

Ongoing Operating Costs: Operating costs are expected to increase by approximately \$10,400 per year for the additional lane miles.

Previous Action: This project was formerly submitted in the 2010-2014 Capital Plan as Project 201007. The project was removed from the Capital Plan in the 2015-2019 Capital Plan due to lack of funding (federal funds were denied and the local municipality was expected to create a TIF District which did not happen). The project is resubmitted as a new project in the 2021-2025 Capital Plan. Approved as a new project in the 2021-2025 capital plan. Approved as planned in the 2022-2026 capital plan. Approved with a cost and revenue update in the 2023-2027 capital plan. Funding for this project transferred to project #201610 CTH O, CTH I (Beloit Road) to CTH ES (National Avenue), during March 2023 (enrolled ordinance 177-101). Approved with a cost and revenue update and delayed in the 2024-2028 capital plan. Approved with a cost, revenue, and scope updates and delayed in the 2025-2029 capital plan.

Project Title:	CTH J – CTH FT Intersection	Project #:	202302
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Preliminary Design	Road Name:	Pewaukee Road
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map/Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2023	2024	2025	2026	2027	Total
Project Phase	Design	Design/Land			Const	Project
Expenditure Budget	\$20,000	\$106,400	\$0	\$0	\$141,300	\$267,700
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$20,000	\$106,400	\$0	\$0	\$141,300	\$267,700
COST DOCUMENTATION			REVENUE			
Design		\$248,700	Federal Highway Safety Improvement Program (HSIP) Funding Design			\$237,300
WisDOT Design Review		\$15,000	Federal Highway Safety Improvement Program (HSIP) Funding Construction			\$1,271,700
Land Acquisition		\$100,000				
Construction		\$1,189,200				
Construction Management		\$163,800				
Contingency		\$60,000				
Total Project Cost		\$1,776,700	Total Revenue			\$1,509,000
EXPENDITURE BUDGET		\$267,700	REVENUE BUDGET			\$0

Project Scope & Description

The intersection of CTH J (Pewaukee Road) and CTH FT (Northview Road) leads to the entrances of Crites Field and the County Expo grounds. The purpose of this project is to improve the traffic signal equipment and geometry of the intersection. Changes to the existing intersection will provide safer traffic signal control, improve visibility for turning vehicles and reduce collisions. Improvements may include:

- Realign CTH J left turn lanes to improve visibility of opposing traffic.
- Replace all existing traffic signal equipment and adding retroreflective backplates over each approach lane.
- Replace induction loops with new video detection.
- Reconfigure corner islands and curve radii to accommodate lane realignment.
- Assess Eastbound left turn demand at peak hours, and increase turning bay capacity and signal timing accordingly.

Waukesha County was awarded Highway Safety Improvement Program (HSIP) funding for the design and construction phases of this intersection improvement.

Location: City of Waukesha.

Analysis of Need

Of the intersections reviewed in a 2022 safety screening study, the intersection of CTH J and CTH FT experienced the largest number of accidents for a single traffic movement and has one of the highest crash rates with respect to its traffic volume. Thirty-five (35) crashes have occurred over a 5-year period with northbound vehicles turning left onto CTH FT accounting for twenty-one (21) of them. The existing lane alignment of CTH J restricts visibility of oncoming traffic. The existing traffic signal equipment was constructed in 1990 and condition of the traffic signal equipment within the intersection warrants replacement.

Alternatives: The do nothing alternative does not address an identified high crash rate intersection.

Ongoing Operating Costs: Maintenance costs will be reduced in the early years after construction in 2025.

Previous Action: Approved as a new project in the 2023-2027 capital plan. Approved with cost and revenue updates in the 2024-2028 capital plan. Approved with a cost update and a delay in the 2025-2029 capital plan.

Project Title:	CTH F – CTH K Intersection	Project #:	202304
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Preliminary Design	Road Name:	Redford Blvd.
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 9, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY				
Year	2025	2026	2027	Total
Project Phase	Design	Land	Construct	Project
Expenditure Budget	\$24,600	\$100,000	\$219,600	\$344,200
Revenue Budget	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$24,600	\$100,000	\$219,600	\$344,200
COST DOCUMENTATION		REVENUE		
Design	\$230,600	Federal Highway Safety Improvement Program (HSIP) Funding		
WisDOT Design Rev	\$15,000			
Land Acquisition	\$100,000	Design	\$221,000	
Construction	\$1,952,000	Construction	\$1,977,000	
Construction Management	\$136,600			
WisDOT Construction Review	\$10,000			
Contingency	\$98,000			
Total Project Cost	\$2,542,200	Total Revenue	\$2,198,000	
EXPENDITURE BUDGET	\$344,200	REVENUE BUDGET	\$0	

Project Scope & Description

The intersection of CTH F (Redford Blvd) and CTH K (Lisbon Road) handles a high percentage of truck traffic due to area industry and quarries. The purpose of this project is to improve the traffic signal equipment and geometry of the intersection. Changes to the existing CTH F and CTH K intersection will provide safer traffic signal control, reduce collisions, and improve visibility for turning vehicles. Improvements include:

- Realign CTH F left turn lanes to improve visibility of opposing traffic.
- Replace all existing traffic signal equipment, installing monotubes and adding retroreflective backplates over each approach lane.
- Replace intersection induction loop detectors with new video detection.
- Reconfigure medians, corner islands, and curve radii to accommodate lane realignment if warranted.
- Conduct a traffic study to determine any appropriate modifications to turning bay capacity and signal timing and whether railroad preemption is needed.
- Investigate whether upgrading street lighting would improve the safety of the intersection.

Waukesha County was awarded Federal HSIP Funding.

Locations – Village of Lisbon

Analysis of Need

Of the intersections reviewed in a 2022 safety screening study, the intersection of CTH F and CTH K had the highest number of recorded accidents and the highest crash rate with respect to its traffic volume. The left turning movements of the northbound and southbound traffic have the second and third highest frequency of accidents for single turn movements. Eighty-two (82) crashes have occurred over a 5-year period with vehicles turning left onto CTH K accounting for thirty-one (31) of them. The existing lane alignment of CTH F restricts visibility of oncoming traffic. Complete replacement of traffic signal equipment is warranted. This intersection has significant numbers of night-time crashes and crashes that occurred under slippery conditions, indicating that a study into improving visibility with improved street lighting is warranted.

Alternatives – The do nothing alternative does not address an identified high accident rate intersection.

Ongoing Operating Costs - It is anticipated that improvements to signal equipment would result in a minor operational cost increase.

Previous Action – Approved as a new project in the 2023-2027 capital plan. Approved with cost and revenue updates in the 2024-2028 and the 2025-2029 capital plans.

Project Title:	CTH T – CTH JJ Intersection	Project #:	202305
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Preliminary Design	Road Name:	Main Street
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY					
Year	2024	2025	2026	2027	Total
Project Phase	Design	Design/Land		Construction	Project
Expenditure Budget	\$16,000	\$75,000	\$0	\$94,100	\$185,100
Revenue Budget	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$16,000	\$75,000	\$0	\$94,100	\$185,100
COST DOCUMENTATION			REVENUE		
Design		\$135,000	Federal Highway Safety Improvement		
WisDOT design Review		\$25,000			
Land Acquisition		\$75,000	Program (HSIP) Funding		
Construction		\$843,700	Design		\$144,000
Construction Management		\$54,000	Construction		\$846,600
Contingency		\$43,000			
Total Project Cost		\$1,175,700	Total Revenue		\$990,600
EXPENDITURE BUDGET		\$185,100	REVENUE BUDGET		\$0

Project Scope & Description

The purpose of this project is to improve the traffic signal equipment and geometry of the intersection of CTH T (N Grandview Boulevard) and CTH JJ (Bluemound Road). Changes to the existing CTH T and CTH JJ intersection will provide safer traffic signal control, reduce collisions, and improve visibility for turning vehicles. Improvements include:

- Realign CTH T left turn lanes to improve visibility of opposing traffic.
- Replace all existing traffic signal equipment, installing monotubes and adding retroreflective backplates over each approach lane.
- Replace induction loops with new video detection.
- Reconfigure medians, corner islands, and curve radii to accommodate lane realignment if warranted.
- Conduct a traffic study to determine any appropriate modifications to turning bay capacity and signal timing and to determine if upgrading street lighting would improve the safety of the intersection.

Waukesha County received HSIP funding for the intersection improvements.

Location: City and Village of Pewaukee

Analysis of Need

Of the intersections reviewed in a 2022 safety screening study, the intersection of CTH T and CTH JJ had the second highest crash rate with respect to its volume. Thirty-seven (37) crashes have occurred over a 5-year period with southbound vehicles turning left onto CTH JJ accounting for twelve (12) of them. The existing lane alignment of CTH T restricts visibility of oncoming traffic. Complete replacement of traffic signal equipment is warranted. A significant number of accidents occurred in the night-time and under slippery conditions, indicating that a study into improving visibility with improved street lighting is warranted.

Alternatives: The do nothing alternative does not address an identified high crash rate intersection.

Ongoing Operating Costs: It is anticipated that improvements to signal equipment would result in a minor operational cost increase.

Previous Action: Approved as a new project in the 2023-2027 capital plan. Approved accelerated with a cost and revenue update in the 2024-2028 capital plan. Approved delayed with a cost and revenue update in the 2025-2029 capital plan.

Project Title:	CTH F at Busse Road	Project #:	202401
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	Redford Boulevard
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY				
Year	2025	2027	2028	Total
Project Phase	Design	Real Estate	Construction	Project
Expenditure Budget	\$12,300	\$50,000	\$83,400	\$145,700
Revenue Budget	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$12,300	\$50,000	\$83,400	\$145,700
COST DOCUMENTATION			REVENUE	
Design		\$115,000	Fed. Highway Safety Improvement Program (HSIP)	
WisDOT Design Review		\$10,000		
Land Acquisition		\$50,000		
Construction		\$704,000	Design	\$112,700
Construct Mngmnt		\$86,000	Construction	\$751,600
WisDOT Construction Review		\$10,000		
Contingency		\$35,000		
Total Project Cost		\$1,010,000	Total Revenue	\$864,300
EXPENDITURE BUDGET		\$145,700	REVENUE BUDGET	\$0

Project Scope & Description

The purpose of this project is to improve the traffic signal equipment and geometry of the intersection of CTH F (Redford Boulevard) and Busse Road. Changes to the existing CTH F and Busse Road intersection will provide safer traffic signal control, reduce collisions, and improve visibility for turning vehicles. Improvements include:

- Realign CTH F left turn lanes to improve visibility of opposing traffic.
- Replace all existing traffic signal equipment, installing monotubes and adding retroreflective backplates over each approach lane.
- Replace induction loops with new video detection.
- Reconfigure medians and curve radii to accommodate lane realignment if warranted.
- Conduct a traffic study to determine any appropriate modifications to turning bay capacity and signal timing and to determine if upgrading street lighting would improve the safety of the intersection.

Waukesha County has been awarded Federal HSIP Funding. The project schedule was advanced by 1-year in the 2025-29 plan to accommodate the statewide HSIP Program schedule.

Location: City of Pewaukee

Analysis of Need

Of the intersections reviewed in a 2022 safety screening study, the intersection of CTH F (Redford Boulevard) and Busse Road had the fourth highest crash rate with respect to its volume. Forty-six (46) crashes have occurred over a 5-year period, with northbound vehicles turning left onto Busse Road accounting for seven (7) of them. The existing lane alignment of CTH F restricts visibility of oncoming traffic. Complete replacement of traffic signal equipment is warranted. A significant number of accidents occurred in the night-time and under slippery conditions, indicating that a study into improving visibility with improved street lighting is warranted.

Alternatives

The do nothing alternative does not address an identified high accident rate intersection

Ongoing Operating Costs

It is anticipated that maintenance costs will be reduced in the years immediately after improvements to signal equipment are completed

Previous Action

Approved as a new project in the 2024-2028 capital plan. Approved accelerated with a cost and revenue update in the 2025-2029 capital plan.

Project Title:	CTH ES Scotland Drive to CTH U	Project #:	202404
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Preliminary Design	Road Name:	National Avenue
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase	Design		Construction			Project
Expenditure Budget	\$75,000	\$0	\$1,725,000	\$0	\$0	\$1,800,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$75,000	\$0	\$1,725,000	\$0	\$0	\$1,800,000
COST DOCUMENTATION			REVENUE			
Design	\$75,000					
Land Acquisition	\$0					
Construction	\$1,500,000					
Construction Management	\$150,000					
Contingency	\$75,000					
Total Project Cost	\$1,800,000					
			Total Revenue			\$0
EXPENDITURE BUDGET	\$1,800,000		REVENUE BUDGET			\$0

Project Scope & Description

CTH ES (National Avenue), from Scotland Drive to CTH U (Guthrie Drive), is 2.6-miles and is experiencing deteriorating pavement and needs reconditioning to address the condition. The project length has been extended 1.6 miles, from STH 164 westerly to Scotland Drive. The highway was last reconstructed 28 years ago in 1997, and the pavement surface is deteriorating and rated in poor condition. The proposed project will recondition the pavement.

The project did not receive STP funding in the 28-29 cycle. The project was downscoped and shifted to county funding to address the pavement condition.

Location

Village of Vernon and Village of Big Bend

Analysis of Need

CTH ES is an east west highway running through the southern communities of Waukesha County. In the project area, it follows the north side of I43 providing an alternate route to the interstate highway. CTH ES serves multiple businesses, farms and residential properties in this growing part of Waukesha County. Current traffic counts show 7,700 vehicles per day on this stretch of highway, which is expected to increase. This highway was reconstructed in 1997 to add shoulders, modernized the existing substandard roadway and improve intersections. Currently there is an accident concern at CTH ES and CTH U, along with failing pavement along the entire project length.

Alternatives

- Continue to maintain the existing facility. This alternate is not recommended since it does not address the safety and conditional issues on this roadway.
- Rehabilitate the pavement surface and improve the CTH ES and CTH U intersection as described above.

Ongoing Operating Costs

Ongoing operating costs are not expected in change.

Previous Action

Approved as a new project in the 2024-2028 capital plan. Approved with a cost and revenue update, and accelerated, in the 2025-2029 capital plan.

Project Title:	CTH D at CTH E Intersection	Project #:	202407
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	Tomlin Road/Wern Way
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	July 3, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2026	2027	2028	2029	2030	Total
Project Phase	Design		Construction			Project
Expenditure Budget	\$20,000	\$0	\$402,500	\$0	\$0	\$422,500
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$20,000	\$0	\$402,500	\$0	\$0	\$422,500
COST DOCUMENTATION			REVENUE			
Design	\$20,000					
Construction	\$350,000					
Contingency	\$17,500					
Const Mngmnt	\$35,000					
Total Project Cost	\$422,500		Total Revenue			\$0
EXPENDITURE BUDGET	\$422,500		REVENUE BUDGET			\$0

Project Scope & Description

The purpose of this proposed project is to correct the apparent causes of past collisions and other potential safety problems at the CTH E (Tomlin Road) / CTH D (Wern Way) intersection. This intersection has experienced consistent crash issues. The County had applied for HSIP funding in both 2015 and 2018, but the project was not selected. This project is being proposed as a county funded intersection improvement.

Proposed improvements addressing the conditions described above hazards include:

1. Realign ~500' of CTH D so its approaches to this 2-way stop intersection are nearly perpendicular with CTH E.
2. Include an asphalt concrete overlay along CTH E within the intersection area impacted for matching the relocated CTH D termini.
3. Add overhead stop sign assemblies at the CTH D approaches.
4. Add center line and shoulder rumble strip pavement markings

Location: Town of Genesee

Analysis of Need

The CTH D (Wern Way) / CTH E (Tomlin Rd) rural area intersection is located in west-central Waukesha County between the villages of North Prairie and Wales. It has stop signs at the CTH D eastbound and westbound approaches. Both highways have 45 MPH posted speed limits. Primary travel patterns through this intersection are straight passage along both CTH E and CTH D. Right turns and left turns also are prevalent at its northwest and southeast corners. The angle of this intersection's existing highway alignments is at about 54°/126°, compared to a 90° preferred angle or a 70° - 110° acceptable range.

Fifty-seven (57) collisions were reported at the CTH E / CTH D intersection during the past 15 years where average daily two-way traffic totals 8,400 vehicles/day for a crash rate of 1.240 per million vehicles. Sixteen (16) of these collisions had incapacitating or severe injuries (Types A & B) during this fifteen-year period. This intersection has one of the highest collision rates among Waukesha County's rural highway intersections. 51 of these 57 collisions (91%) involved CTH D traffic failing to yield at its stop signs while crossing CTH E. Nearly all of these angle collisions were caused by this intersection's sharp angle, which limits CTH D drivers' view of CTH E traffic coming from their right. Exposure time for crossing CTH E could be longer, and gap distances in oncoming traffic could be shorter than perceived by drivers at the CTH D stop signs. Trucks turning right from CTH D also may tend to swing wide into opposing CTH E traffic.

Alternatives

Improved signing and striping (additional stop signs, adjusted stop bars and improved ahead warning signs) was implemented as a lower cost alternative in 2015. Crashes persist at the intersection as the signing was not as effective of an option as improving the geometry per the recommended scope.

Changing this intersection to a full-way stop would not be appropriate for the contrasting traffic volumes along CTH E and CTH D. A roundabout would require significantly more right-of-way and higher construction costs for addressing this intersection's prevailing hazard for CTH D cross-traffic.

Ongoing Operating Costs

No increase to costs is expected

Previous Action

This project was originally introduced in the 2020-2024 capital (#202010). The project was deleted in the 2022-2026 capital plan after it was denied federal funding and could not be accommodated within that capital plan at 100% county costs. This project was reintroduced and approved in the 2024-2028 capital plan. Approved as planned in the 2025-2029 capital plan.

Project Title:	CTH F, IH 94 to Duplainville Road	Project #:	202503
Department:	Public Works - Highways	Project Type:	Priority Corridor
Phase:	Formation	Road Name:	Redford Blvd
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	July 3, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2027	2028	2029	2030	2031	Total
Project Phase	Design		Land Acq	Construction		Project
Expenditure Budget	\$461,600	\$0	\$900,000	\$4,252,000	\$0	\$5,613,600
Revenue Budget	\$0	\$0	\$720,000	\$0	\$0	\$720,000
Net Costs After Revenues Applied	\$461,600	\$0	\$180,000	\$4,252,000	\$0	\$4,893,600
COST DOCUMENTATION			REVENUE			
Design	\$2,208,000		Federal STP-M Design			\$1,846,400
WisDOT Design Review	\$100,000		Federal STP-M Real Estate			\$720,000
Land Acquisition	\$900,000		Federal STP-M Construction			\$17,008,000
Construction	\$18,400,000		(All Anticipated)			
Construction Management	\$1,840,000					
WisDOT Construction Review	\$100,000					
Contingency	\$920,000					
Total Project Cost	\$24,468,000		Total Revenue			\$19,574,400
EXPENDITURE BUDGET	\$5,613,600		REVENUE BUDGET			\$720,000

Project Scope & Description

The 1.2-mile project involves the reconstruction of the 6-lane segment of CTH F to bring it up to current standards. Improvements will include replacing the existing concrete pavement and reconfiguring intersections to improve safety. The project will be built under staged construction to maintain traffic flow and business access. The county will apply for federal STP funding for design, real estate, and construction in 2026.

DPW will work with PLU to investigate off-street bike/pedestrian opportunities to connect the Fox River Trail between Frame Park and the new connection between Watertown Road and Brookfield Road.

WisDOT is planning for a major reconfiguration of the CTH F interchange at IH 94. DPW will work with WisDOT to coordinate project scope and schedule to minimize traffic and business impacts.

Location

City of Pewaukee.

Analysis of Need

The existing concrete pavement was built in 1988 and is in poor condition. The concrete pavement was rehabilitated with diamond grinding and dowel bar retrofitting in 2014. Transverse and longitudinal joints are showing signs of advanced deterioration. The concrete pavement will be at the end of its useful life in 2032 and will need to be replaced. CTH F is a 6-lane highway in the project segment, and it carries over 35,000 vehicles per day. CTH F traffic includes over 10% trucks. The 5-year crash rate is 332 per 100 million vehicle miles traveled and almost 4x the statewide average. Fatal and serious crash rate on the project segment is 2.3x the statewide average.

Alternatives

Attempt further rehabilitation. This alternative is not recommended because it is not considered cost-effective due to the poor condition of the existing concrete pavement and the high cost of traffic control needed to maintain traffic for this roadway.

Ongoing Operating Costs

Operating costs are not expected to change.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH ES, CTH NN to Center Drive	Project #:	202513
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Formation	Road Name:	Fox Street/National Avenue
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2029	2030	2031	2032	2033	Total
Project Phase	Design		Land Acq	Construction		Project
Expenditure Budget	\$81,800	\$0	\$50,000	\$746,000	\$0	\$877,800
Revenue Budget	\$0	\$0	\$40,000	\$0	\$0	\$40,000
Net Costs After Revenues Applied	\$81,800	\$0	\$10,000	\$746,000	\$0	\$837,800
COST DOCUMENTATION			REVENUE			
Design		\$384,000	Federal STP-U Design			\$327,200
WisDOT Design Review		\$25,000	Federal STP-U Land Acquisition			\$40,000
Land Acquisition		\$50,000	Federal STP-U Construction			\$2,984,000
Construction		\$3,200,000	(All Anticipated)			
Construction Management		\$320,000				
WisDOT Construction Review		\$50,000				
Contingency		\$160,000				
Total Project Cost		\$4,189,000	Total Revenue			\$3,351,200
EXPENDITURE BUDGET		\$877,800	REVENUE BUDGET			\$40,000

Project Scope & Description

The existing asphalt pavement will be milled and overlaid to extend the pavement life and improve the surface condition on the 4.2-mile project. Base patching will be completed prior to asphalt paving to address deep pavement and/or subbase issues. Intersections will be reviewed and evaluated for drainage and safety improvements. Existing culverts will be evaluated for improvements. New traffic signs and pavement marking will be installed with the project.

Location

City of Mukwonago and Village of Vernon

Analysis of Need

The project segment was last rehabilitated in 1999. The existing asphalt pavement has a PCI rating of 70 and a 2032 forecast PCI of 58. Traffic volumes on the project segment range from 5,900 to 8,900. The overall crash rate and KAB crash rate along the project segment are below the statewide average. This segment is being planned as a future Surface Transportation Program-Urban (STP-U) candidate. The county will apply for federal STP-U funding in 2028. Early identification of future federal funding candidate projects allows the county to focus our county-funded paving program on highway segments that will not receive federal funding.

Alternatives

The pavement will need to be milled and resurfaced either from the county-funded annual paving program or from an 80% federally funded STP-U program.

Ongoing Operating Costs

No change in operating costs is expected with the proposed project.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH BB, US 18 to CTH DR	Project #:	202515
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Formation	Road Name:	N. Golden Lake Road
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase	Design	Construction				Project
Expenditure Budget	\$97,500	\$0	\$2,242,500	\$0	\$0	\$2,340,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$97,500	\$0	\$2,242,500	\$0	\$0	\$2,340,000
COST DOCUMENTATION			REVENUE			
Design	\$97,500					
Construction	\$1,950,000					
Construction Management	\$195,000					
Contingency	\$97,500					
Total Project Cost	\$2,340,000					
EXPENDITURE BUDGET	\$2,340,000		REVENUE BUDGET			

Project Scope & Description

The 2.5-mile project will improve the existing asphalt pavement section and investigate improving shoulders and roadway safety clearance within the existing highway right-of-way. The project will improve subbase areas with significant deterioration and will investigate intersection geometrics and address intersection safety and operational performance within the existing highway right-of-way. It is recommended to consider widening the paved shoulders where feasible and adding shoulder and centerline rumble strips where appropriate to the corridor. These recommendations would be expected to decrease run-off-the-road crashes.

Location

Village of Summit

Analysis of Need

CTH BB (North Golden Lake Road) between US 18 and CTH DR has an existing PCI of 46 and requires pavement rehabilitation. The last pavement rehabilitation was completed in 2009 as part of the annual paving program. The existing pavement has over 17,000 SF of alligator cracking and requires subbase stabilization. The average annual daily traffic (AADT) on this roadway was 1,700 in 2022. In the past five years along this corridor, a total of 14 crashes have occurred, including three injury crashes involving vehicles running off the road.

Alternatives

The pavement will need to be rehabilitated either from the county funded annual pavement program or as a stand-alone county-funded project. The safety performance of the highway segment and the large amount of alligator cracking require a larger scope than is typically addressed within the annual pavement program, making this project a better candidate for a stand-alone county-funded project.

Ongoing Operating Costs

No change in operating costs is expected with the proposed project.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH SS, Meadowbrook Creek Structure	Project #:	202001
Department:	Public Works - Highways	Project Type:	Bridge
Phase:	Preliminary Design	Road Name:	Prospect Avenue
Budget Action:	C - Scope	Manager:	Allison Bussler, DPW Director
Date:	July 3, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2024	2025	2026	2027	2028	Total
Project Phase	Design		Land	Construction		Project
Expenditure Budget	\$127,000	\$0	\$174,000	\$541,000	\$0	\$842,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Cost After Revenues Applied	\$127,000	\$0	\$174,000	\$541,000	\$0	\$842,000
COST DOCUMENTATION			REVENUE			
Design	\$127,000					
WisDOT Design Review	\$0					
Land Acquisition	\$174,000					
Construction	\$436,000					
Construction Management	\$87,000					
Contingency	\$18,000					
Total Project Cost	\$842,000		Total Revenue			\$0
EXPENDITURE BUDGET	\$842,000		REVENUE BUDGET			\$0

Project Scope & Description

This project is a replacement of the CTH SS drainage structure over Meadowbrook Creek (a tributary of Pewaukee Lake). A box culvert or concrete arch are likely structure types, though various structure types will be considered. The roadway will remain a two-lane section over the structure. The roadway has a functional classification as a minor arterial, and 10-foot shoulders are anticipated. Shoulder widening may require removal of an adjacent retaining wall. Other site constraints include close proximity to two restaurants, Waukesha County's Lake Country Trail, and a Pewaukee Lake access. To minimize impacts to businesses, various roadway typical sections will be considered (rural, urban). Right of way acquisition to the ultimate width of 60/66 feet is required. Additional fee acquisition or easements beyond the ultimate width are anticipated. The project scope has been changed to extend the life of the existing drainage structure through the use of a culvert liner. A study was completed in 2024 that confirmed the feasibility of a culvert liner in lieu of replacement. The real estate acquisition and construction costs will be updated upon completion of preliminary plans in 2026.

Locations

Village of Pewaukee

Analysis of Need

The existing structure is a single-span structural steel plate arch with a span of approximately 10 feet. The steel structure is in poor condition with significant deterioration in the lower portion of the culvert barrel. Roadway railings/guardrail at the structure are in poor condition. The age of the existing structure is unknown. The structure has concrete headwalls that are in fair condition. The downstream headwall is continuous with a concrete retaining wall. The culvert structure has a span of 10 feet and is not classified as a bridge per Federal Highway Administration (FHWA) standards, and therefore is not eligible for federal bridge aid. The roadway functional class is minor arterial. Traffic volume on CTH SS in 2018 was 3,400 vehicles per day.

Alternatives

Rehabilitate the existing structure, which does not address all structural and geometric deficiencies. A culvert liner can extend the life of the existing structure at a lower cost.

Ongoing Operating Costs

Maintenance costs will be reduced in the early years after construction beyond 2026.

Previous Action

Approved as new project in 2020-2024 capital plan. Approved as planned in the 2021-2025, 2022-2026, and 2023-2027 capital plans. Approved with a cost update in the 2024-2028 capital plan. Approved with a delay in the 2025-2029 capital plan.

Project Title:	CTH I, Mukwonago River Bridge	Project #:	202203
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Preliminary Design	Road Name:	Beloit Road
Budget Action:	C - \$ Update	Manager:	Allison Bussler
Date:	June 16, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2022	2023-24	2025	2026	2027	Total
Project Phase	Pre. Design		Design	Design/Land	Const	Project
Expenditure Budget	\$6,000	\$0	\$23,000	\$55,000	\$98,000	\$182,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$6,000	\$0	\$23,000	\$55,000	\$98,000	\$182,000
COST DOCUMENTATION			REVENUE			
Preliminary Design	\$6,000		Fed Aid Bridge			\$484,000
Design	\$105,000					
WisDOT Design Review	\$20,000					
Land Acquisition	\$45,000					
Construction	\$383,000					
Construction Management	\$88,000					
Contingency	\$19,000					
Total Project Cost	\$666,000		Total Revenue			\$484,000
EXPENDITURE BUDGET	\$182,000		REVENUE BUDGET			\$0

Project Scope & Description:

This rehabilitation of the CTH I bridge over the Mukwonago River is rescope from concrete overlay to concrete deck repairs. The spalls and delaminations in the deck will be repaired with concrete patching, using sacrificial anodes. Concrete repairs will be made to the spalled slab edges. Galvanized steel flashing will be installed on the slab edges. Existing bridge railing may be modified/remounted or completely replaced with this project. Railing replacement with concrete parapet will be investigated. Approach guardrail will be replaced to meet current standards. The immediate asphalt approaches will be repaved. The existing right-of-way width is 66 feet, whereas the ultimate right-of-way width is 100 feet. The county does not anticipate purchasing the ultimate right-of-way width. However, some land acquisition is anticipated to relocate one or two driveways for guardrail construction. At construction, it is anticipated that the bridge will be closed to traffic with a detour in-place. An independent study report was completed in 2023, and application was made to WisDOT for federal funding. WisDOT did not concur with our recommended concrete overlay and the independent study report was revised using a modified scope, which was approved by WisDOT. Though scope is modified, total project cost is reduced only slightly, mostly due to inflationary increases in the revised independent study report. Project design budget is increased by \$10,000 based on final design contract.

Locations: Town of Mukwonago

Analysis of Need:

The existing bridge (B-67-202) is a single span flat slab structure that was constructed in 1981. The bridge wearing surface is an estimated 8% delaminated and is beginning to spall. The delamination is due to corrosion of the top mat of bar steel. The slab underside is spalled along both edges. The approach guardrail is in poor condition and does not meet current standards. The roadway is functionally classified as a 'minor arterial.' The structure sufficiency number is 59.2. This indicates that structure rehabilitation is warranted according to WisDOT guidelines, which makes the bridge eligible for federal bridge rehabilitation funding when the sufficiency index is below 80. An independent engineering study report will be prepared for this project prior to application for federal bridge funding. The purpose of the report is to verify that the proposed project scope is a cost-effective rehabilitation strategy. The 2018 traffic volume on this roadway segment was 1,200 vehicles per day.

Alternatives:

Reconstruct the existing bridge and roadway approaches to current WisDOT standards. This alternative, while addressing the deficiencies, is not warranted.

Ongoing Operating Costs:

Maintenance costs will be reduced in the early years after construction beyond 2027.

Previous Action:

Approved as a new project in the 2022-2026. Approved as planned in the 2023-2027 capital plan. Approved with a cost and revenue update in the 2024-2028 capital plan. Approved with a cost and scope update in the 2025-2029 capital plan.

Project Title:	CTH Y – CTH L to CTH HH	Project #:	202301
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Preliminary Design	Road Name:	Racine Avenue
Budget Action:	Delay C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	June 16, 2025	Map/Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2024	2025	2026	2027	2028	Total
Project Phase	Design	Land Acq			Const	Project
Expenditure Budget	\$76,600	\$300,000	\$0	\$0	\$1,165,000	\$1,541,600
Revenue Budget	\$0	\$240,000	\$0	\$0	\$0	\$240,000
Net Costs After Revenues Applied	\$76,600	\$60,000	\$0	\$0	\$1,165,000	\$1,301,600
COST DOCUMENTATION		REVENUE				
Design		\$348,000				\$306,400
WisDOT Design Review		\$35,000				\$240,000
Land Acquisition		\$300,000				\$3,600,000
Construction		\$4,100,000				
Construction Management		\$410,000				
WisDOT Construction Review		\$50,000				
Contingency		\$205,000				
Total Project Cost		\$5,448,000				\$4,146,400
EXPENDITURE BUDGET		\$1,541,600	REVENUE BUDGET			\$240,000

Project Scope & Description: This 2.1-mile-long project involves the pavement replacement and rehabilitation of CTH Y (Racine Avenue) to bring it up to current standards. Improvements may include replacing the existing asphalt pavement, reconfiguring intersections to improve safety, replacing older traffic signals, minor grading, and storm water improvements. Access to businesses and residences adjacent to CTH Y (Racine Avenue) will need to be maintained during construction. The roadway will be open to local traffic during construction. This project will use federal funds to partially offset the cost of design, land acquisition, and construction. The department received a combined total of \$4,146,400 in federal Surface Transportation Program (STP) funds and Bipartisan Infrastructure Law (BIL) funds. CTH Y is part of the proposed detour route for the CTH O (CTH HH to Grange Avenue) project, so construction is being delayed from 2027 to 2028 to avoid conflicts with the proposed detour route. Construction cost increased \$265,000 based on 30% estimate and inflationary cost increases.

Locations: City of New Berlin and City of Muskego.

Analysis of Need: CTH Y (Racine Avenue) is a heavily traveled North-South facility. The highway serves industrial parks in the city of Muskego, residential development in both Muskego and New Berlin and isolated commercial uses along the corridor. It provides a north-south connection to the City of Waukesha, City of New Berlin, City of Muskego and Interstate 43.

The pavement along this stretch of roadway is deteriorating and in poor condition. The county's 2020 pavement inspection reports the Pavement Condition Index (PCI) of the section of CTH Y from CTH L (Janesville Road) to CTH HH (College Avenue) varies from 26 to 46. The existing pavement has reached the end of its service life and is in need of resurfacing/rehabilitation. The pavement deficiencies include transverse and longitudinal cracking, alligator cracking, rutting and minor settlement/heaving. There is edge raveling and failure in the rural sections

Drainage in the urban section, between CTH L and Hillendale Dr, is not functioning due to paved over flow lines, non existent gutter sections and damaged curb sections.

Alternatives: Do Nothing, which does not address the pavement condition or intersections.

Ongoing Operating Costs: Operating costs are not expected to change.

Previous Action: Approved as a new project in the 2023-2027 capital plan. Approved with cost and revenue updates in the 2024-2028 capital plan. Approved with a delay in the 2025-2029 capital plan.

DELETE PROJECT			
Project Title:	CTH ES – Sunnyslope Road Intersection	Project #:	202303
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	National Avenue
Budget Action:	Delete	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025		

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase			Design	Land Acq	Construction	Project
Expenditure Budget	\$0	\$0	\$26,000	\$250,000	\$129,800	\$405,800
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$0	\$0	\$26,000	\$250,000	\$129,800	\$405,800
COST DOCUMENTATION			REVENUE			
Design		\$240,000	Federal Highway Safety Improvement			\$234,000
WisDOT Design Review		\$20,000	Program (HSIP) (Anticipated) design			
Land Acquisition		\$250,000	Federal Highway Safety Improvement			\$1,168,200
Construction		\$1,112,000	Program (HSIP) (Anticipated) construction			
Construction Management		\$111,000				
Contingency		\$75,000				
Total Project Cost		\$1,808,000	Total Revenue			\$1,402,200
EXPENDITURE BUDGET		\$405,800	REVENUE BUDGET			\$0

Project is being deleted due to decrease in intersection crashes and lack of HSIP funding potential.

Project Scope & Description

The purpose of this project is to improve the traffic signal equipment and geometry of the intersection of CTH ES (W. National Avenue) and S. Sunnyslope Road. Changes to the existing intersection will provide safer traffic signal control, reduce collisions, and determine if visibility for turning vehicles is appropriate. Improvements include:

- Replace all existing traffic signal equipment, installation of monotubes and addition of retroreflective backplates over each approach lane.
- Replace intersection inductance loop detectors with new video detection.
- Conduct a traffic study to determine if a positive offset to CTH ES left turn lanes is warranted to improve visibility of opposing traffic and will help determine any appropriate changes to intersection geometry, turn lane storage, and signal timing.
- Reconfigure geometry if warranted.

Crashes have recently decreased at the intersection, which decreases the likelihood of HSIP funding award.

Location: City of New Berlin.

Analysis of Need

Of the intersections reviewed in a 2022 safety screening study, the intersection of CTH ES and Sunnyslope had the second highest number of crashes over the 5-year study period. A traffic study is necessary to determine whether changes to the geometry of the intersection would substantially improve the safety of the intersection and reduce the number of accidents that occur within the intersection. The existing traffic signals are old, constructed in 1991, and full replacement of traffic signal equipment within the intersection is warranted.

Alternatives: The do nothing alternative does not address an identified high crash rate at this intersection.

Ongoing Operating Costs: It is anticipated that improvements to signal equipment would result in a minor increase in operational costs.

Previous Action: Approved as a new project in the 2023-2027 capital plan. Approved with cost and revenue updates and delayed in the 2024-2028 capital plan. Approved with a cost update and delayed in the 2025-2029 capital plan.

DELETE PROJECT

Project Title:	CTH D at Sunnyslope Road	Project #:	202402
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	W Cleveland Ave/S Sunny Slope Rd
Budget Action:	Delete	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025		

CAPITAL BUDGET SUMMARY					
Year	2025	2027	2028	2029	Total
Project Phase	Design	Design	Land	Const	Project
Expenditure Budget	\$10,000	\$30,000	\$50,000	\$145,000	\$235,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$10,000	\$30,000	\$50,000	\$145,000	\$235,000
COST DOCUMENTATION			REVENUE		
Design		\$310,000	Highway Saefety Improvement Program (HSIP) anticipated		
Land Acquisiton		\$50,000	Design		\$270,000
Construction		\$1,260,000	Construction		\$1,305,000
Const Mngnt		\$125,000			
Contingency		\$65,000			
Total Project Cost		\$1,810,000	Total Revenue		\$1,575,000
EXPENDITURE BUDGET		\$235,000	REVENUE BUDGET		\$0

Project is being deleted due to decrease in intersection crashes and lack of HSIP funding potential.

Project Scope & Description

The purpose of this project is to improve the traffic signal equipment and geometry of the intersection of CTH D (W Cleveland Avenue) and S Sunnyslope Road. Changes to the existing CTH D and S Sunnyslope Road intersection will provide safer traffic signal control, reduce collisions, and improve visibility for turning vehicles. Improvements include:

- Realign CTH D & S Sunnyslope Road left turn lanes to improve visibility of opposing traffic.
- Replace all existing traffic signal equipment, installing monotubes and adding retroreflective backplates over each approach lane.
- Replace induction loops with new video detection.
- Reconfigure medians and curve radii to accommodate lane realignment if warranted.
- Conduct a traffic study to determine any appropriate modifications to turning bay capacity and signal timing and to determine if upgrading street lighting would improve the safety of the intersection.

The project was not submitted for HSIP funding in 2025 due to lack of crashes.

Location

City of New Berlin

Analysis of Need

At the intersection of CTH D (W Cleveland Avenue) and S Sunnyslope Road, fifty (50) crashes have occurred over a 5-year period. Left turning vehicles accounted for a significant portion of the crashes. The existing lane alignment of the intersection restricts visibility of oncoming traffic. Complete replacement of traffic signal equipment is warranted. A significant number of accidents occurred in the night-time and under slippery conditions, indicating that a study into improving visibility with improved street lighting is warranted.

Alternatives

The do nothing alternative does not address an identified high accident rate intersection

Ongoing Operating Costs

It is anticipated that maintenance costs will be reduced in the years immediately after improvements to signal equipment are completed.

Previous Action

Approved as a new project in the 2024-2028 capital plan. Approved with a cost update in the 2025-2029 capital plan.

Project Title:	Signal Controller Replacement	Project #:	202403
Department:	Public Works - Highways	Project Type:	Equipment Replacement
Phase:	Formation	Road Name:	Various
Budget Action:	Delay	Manager:	Allison Bussler, DPW Director
Date:	June 16, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2024	2025	2026	2027	2028	Total
Project Phase	Design	Design	Construction			Project
Expenditure Budget	\$129,000	\$30,000	\$0	\$799,000	\$0	\$958,000
Revenue Budget	<u>\$103,200</u>	<u>\$23,800</u>	<u>\$0</u>	<u>\$640,000</u>	<u>\$0</u>	<u>\$767,000</u>
Net Costs After Revenues Applied	\$25,800	\$6,200	\$0	\$159,000	\$0	\$191,000
COST DOCUMENTATION			REVENUE			
Design	\$149,000		Federal Congestion Management and Air Quality (CMAQ)			
WisDOT Design Review	\$10,000					
Construction	\$540,000		Design			
Construction Management	\$164,000		Construction			
WisDOT Construction Review	\$15,000					
Contingency	\$80,000					
Total Project Cost	\$958,000		Total Revenue			
EXPENDITURE BUDGET	\$958,000		REVENUE BUDGET			

Project Scope & Description

The purpose of this project is to replace obsolete and inefficient traffic signal controllers throughout Waukesha County. The county maintains 115 signals on highway intersections. The signal equipment is older technology with some being more than 30 years old. Improvements include:

- New traffic signal controllers
- Updated signal timing programs

Waukesha County has been awarded a Congestion Mitigation and Air Quality (CMAQ) grant for this proposed project. This grant covers 80% of eligible costs. Construction funding and revenue have been fully allocated to 2027 to match the WisDOT CMAQ funding agreement.

Location

Throughout Waukesha County

Analysis of Need

The older controllers make the signals less efficient and are not able to implement modern improvements like flashing-yellow-arrows or adaptive control, and upcoming technologies, such as connected vehicles, that can reduce the amount of time a vehicle spends idling at an intersection. New controllers provide better coordination along corridors with multiple traffic signals, so drivers see more green lights and spend less time stopped at red lights. New controllers are also more efficient and use less electricity. Poorly timed traffic signals increase carbon emissions and pollution. Studies show a typical car generates 1 lb of carbon dioxide (CO2) emissions for every 3 minutes of idling. Well-timed signals can have a significant impact on reduction of carbon emissions. This will reduce overall carbon emissions by increasing the efficiency of the highways. The county's traffic signal controller vendor no longer sells the brand that is used at the majority of intersections.

Alternatives

The do nothing alternative leaves the county using aging and unsupported equipment.

Ongoing Operating Costs

It is anticipated that maintenance costs will be reduced in the years immediately after improvements to signal equipment are completed. The energy-efficient equipment is expected to reduce electrical consumption.

Previous Action

Approved as a new project in the 2024-2028 capital plan. Approved delayed with a cost and revenue update in the 2025-2029 capital plan.

Project Title:	CTH YY, Butler Ditch Tributary Structure	Project #:	202501
Department:	Public Works - Highways	Project Type:	Bridge
Phase:	Formation	Road Name:	CTH YY (Pilgrim Road)
Budget Action:	Accelerate	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2027	2028	2029	2030	2031	Total
Project Phase	Design		Land Acq		Construction	Project
Expenditure Budget	\$163,000	\$0	\$84,000	\$0	\$877,000	\$1,124,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$163,000	\$0	\$84,000	\$0	\$877,000	\$1,124,000
COST DOCUMENTATION			REVENUE			
Design	\$163,000					\$0
Land Acquisition	\$84,000					
Construction	\$763,000					
Construction Management	\$76,000					
Contingency	\$38,000					
Total Project Cost	\$1,124,000		Total Revenue			\$0
EXPENDITURE BUDGET	\$1,124,000		REVENUE BUDGET			\$0

Project Scope & Description

This project is full replacement of the CTH YY (Pilgrim Road) structure over a tributary to Butler Ditch & Underwood Creek. The roadway will remain two lanes following the project. However, the 2050 Regional Transportation Plan lists CTH YY as a 4-lane facility. The county will investigate various structure types, including pipe culvert, box culvert, and concrete arch. The structure will be aligned to allow for future roadway & structure widening. With the project, the county expects to separate a city owned 66-inch diameter storm sewer from the county structure. This will require close coordination with the City of Brookfield. Existing R/W widths vary near the culvert site. The expectation is to purchase in FEE to acquire the adopted ultimate width of 120 feet in the project limits. The roadway will be closed during construction with a posted detour. Design and Land Acquisition are being accelerated to improve delivery schedule durations.

Location

City of Brookfield

Analysis of Need

The existing structure (V-67-106) is a single-span concrete box culvert or rigid frame type structure. The structure was widened to each side in the past with deck-girder configuration. The upstream face of the structure is bulk-headed and connects to a 66-inch diameter storm sewer owned by the City of Brookfield. Three small diameter storm sewer also outfall into the county structure. The structure is old, likely built in early 1900's. A roadway sinkhole developed in 2023 due to deterioration of the culvert walls, which are in poor condition. The girders in the widened sections are in fair to poor condition. The exposed (downstream) headwall is in poor condition. Per City of Brookfield staff, the 66-inch storm sewer is hydraulically undersized. The structure has a span of about 12 feet, and therefore is not classified as a bridge per Federal Highway Administration (FHWA) standards. Traffic volumes on CTH YY were 9,400 vehicles per day in 2022.

Alternatives

Rehabilitate the existing structure, which does not address all structural and geometric deficiencies.

Ongoing Operating Costs

Initial maintenance costs may be reduced.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH S, STH 67 to STH 59	Project #:	202502
Department:	Public Works - Highways	Project Type:	Repaving
Phase:	Preliminary Design	Road Name:	CTH S
Budget Action:	C - \$ Update C - Rev Update Delay	Manager:	Allison Bussler, DPW Director
Date:	July 3, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2029	2030	Total
Project Phase	Design/Constr				Construction	Project
Expenditure Budget	\$50,000	\$0	\$0	\$0	\$185,500	\$235,500
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$50,000	\$0	\$0	\$0	\$185,500	\$235,500
COST DOCUMENTATION			REVENUE			
Design	\$131,000		Federal STP- Local Design (Anticipated)			\$117,000
WisDOT Design Review	\$15,000		Federal STP-Local Construction			\$825,000
Construction	\$875,000		(Anticipated)			
Construction Management	\$87,500					
WisDOT Construction Review	\$25,000					
Contingency	\$44,000					
Total Project Cost	\$1,177,500		Total Revenue			\$942,000
EXPENDITURE BUDGET	\$235,500		REVENUE BUDGET			\$0

Project Scope & Description

The existing asphalt pavement will be improved with cold in-place asphalt recycling (CIR) and a 2-inch asphalt overlay. Existing shoulders will be dressed with gravel, and new pavement markings installed. The project will be constructed open to traffic.

The project was not awarded STP-Local funding in the last cycle. Waukesha County will reapply in the next cycle which would also include an opportunity to receive both design and construction federal funding. The project construction cost has been increased to reflect inflationary increases due to the 3-year construction delay. The previous application was capped at \$500,000, so the new anticipated revenue creates an overall decrease of \$176,500 in county expenditures.

Location

Town of Eagle

Analysis of Need

CTH S is a minor collector that serves as an important connection between WIS 67 and WIS 59. CTH S runs through the Kettle Moraine State Forest and provides access to the Old World Wisconsin Historic Site, Ice Age National Scenic Trail's Stoney Ridge Segment Trailhead, equestrian ranches and rural residential properties. This highway includes a crossing of the Wisconsin & Southern Railroad. CTH S has last been resurfaced in 1998 with crack sealing maintenance having occurred in 2011. The current PCI is 45. The pavement deficiencies include transverse and longitudinal cracking, alligator cracking, rutting and minor settlement/heaving. There is also edge raveling and failure in the rural sections.

Alternatives

This section of County Trunk Highway was slated to be paved with the Waukesha County paving program in 2024. This section was identified as a potential location for STP-L federal project funding. Allowing further deterioration of the road surface is not advisable.

Ongoing Operating Costs

Operating costs are not expected to change.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH F, W. Moreland Blvd to IH 94	Project #:	202504
Department:	Public Works - Highways	Project Type:	Priority Corridor
Phase:	Formation	Road Name:	Redford Blvd
Budget Action:	Delay	Manager:	Allison Bussler, DPW Director
Date:	June 16, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2029	2030	2031	2032	2033	Total
Project Phase	Design		Land Acq		Construction	Project
Expenditure Budget	\$525,200	\$0	\$1,326,000	\$0	\$4,861,500	\$6,712,700
Revenue Budget	\$0	\$0	\$1,060,800	\$0	\$0	\$1,060,800
Net Costs After Revenues Applied	\$525,200	\$0	\$265,200	\$0	\$4,861,500	\$5,651,900
COST DOCUMENTATION			REVENUE			
Design	\$2,526,000		Federal STP-M Design		\$2,100,800	
WisDOT Design Review	\$100,000		Federal STP-M Real Estate		\$1,060,800	
Land Acquisition	\$1,326,000		Federal STP-M Construction		\$19,446,000	
Construction	\$21,050,000		(All Anticipated)			
Construction Management	\$2,105,000					
WisDOT Construction Review	\$100,000					
Contingency	\$1,052,500					
Total Project Cost	\$28,259,500		Total Revenue		\$22,607,600	
EXPENDITURE BUDGET	\$6,712,700		REVENUE BUDGET		\$1,060,800	

Project Scope & Description

The 1.5-mile project involves the reconstruction of CTH F to bring it up to current standards. Improvements will include replacing the existing asphalt and rubblized concrete pavement base, improving the roadway cross section and reconfiguring intersections to improve safety. The project will be built under staged construction to maintain traffic flow and business access. The county will apply for federal STP funding for design, real estate, and construction in 2028, a delay from the previous plan.

DPW will work with PLU to investigate off-street bike/pedestrian opportunities to connect the Fox River Trail between Frame Park and the new connection between Watertown Road and Brookfield Road.

SEWRPC's Vision 2050 Plan recommends a jurisdictional change on the 1600-foot segment of Redford Blvd between W. Moreland Blvd and CTH F. DPW will work with the City of Waukesha to determine if a 1600-foot extension of CTH F to W. Moreland Blvd is beneficial and work with the city to include this portion of Redford Blvd into the project to maintain a consistently improved roadway cross section. WisDOT is planning for a major reconfiguration of the CTH F interchange at IH 94. DPW will work with WisDOT to coordinate project scope and schedule to minimize traffic and business impacts.

Location

City of Pewaukee and City of Waukesha.

Analysis of Need

The original concrete pavement was built in 1978 and was rubblized and overlaid with asphalt surface in 2004. The pavement is in poor condition. Transverse and longitudinal joints are showing signs of advanced deterioration. The existing pavement segment will be at the end of its useful life in 2032 and will need to be replaced. CTH F is a 4-lane highway in the project segment, and it carries over 22,000 vehicles per day. The project segment is a major truck route serving as a critical connection between aggregate sources and IH 94. The 5-year crash rate is 159 per 100 million vehicle miles traveled and almost 2x the statewide average. Fatal and serious crash rate on the project segment is 1.8x the statewide average.

Alternatives

Attempt further rehabilitation. This alternative is not recommended because it is not considered cost-effective due to the poor condition of the existing rubblized concrete pavement and asphalt surface, and the high cost of traffic control needed to maintain traffic for this roadway.

Ongoing Operating Costs

Operating costs are not expected to change.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH P, Ashippun River to N. County Line	Project #:	202505
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Formation	Road Name:	Brown Street
Budget Action:	Accelerate	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2027	2029	2030	2031	2032	Total
Project Phase	Design		Land Acq		Construction	Project
Expenditure Budget	\$228,400	\$0	\$2,000,000	\$0	\$2,103,000	\$4,331,400
Revenue Budget	\$0	\$0	\$1,600,000	\$0	\$0	\$1,600,000
Net Costs After Revenues Applied	\$228,400	\$0	\$400,000	\$0	\$2,103,000	\$2,731,400
COST DOCUMENTATION			REVENUE			
Design	\$1,092,000		Federal STP-R Design			\$913,600
WisDOT Design Review	\$50,000		Federal STP-R Real Estate			\$1,600,000
Land Acquisition	\$2,000,000		Federal STP-R Construction			\$8,412,000
Construction	\$9,100,000		(All Anticipated)			
Construction Management	\$910,000					
WisDOT Construction Review	\$50,000					
Contingency	\$455,000					
Total Project Cost	\$13,657,000		Total Revenue			\$10,925,600
EXPENDITURE BUDGET	\$4,331,400		REVENUE BUDGET			\$1,600,000

Project Scope & Description

The 1.75-mile project involves reconstructing CTH P to improve the existing pavement and bring the cross section up to collector (C4) standards which requires a 40-foot clear roadway width (12-foot driving lanes and 8-foot shoulders. The roadway will be consistent with the segments to the north and south. The intersection with CTH CW will be investigated for geometric and safety improvements. The significantly substandard vertical roadway geometry will be rebuilt to current design standards for a 55-mph posted speed limit. The substandard vertical clearance at the Union Pacific Railroad (UPRR) bridge will be investigated for improvement. Land acquisition will be required to construct an engineered cross section, roadway profile and intersection improvements. Rural curb and gutter sections will be evaluated to minimize property impacts to the built environment. The highway segment will be closed to through traffic using a posted detour during construction. Design expenditures are accelerated to 2027 to better align with anticipated STP-R federal funding.

Location

Town of Oconomowoc

Analysis of Need

CTH P is a major collector and an important north-south corridor between WIS 16 (in Waukesha County) and WIS 33 (in Dodge County). The project segment is unique to the 23-mile corridor as it is unimproved and has significantly substandard vertical geometry, cross section, and safety clearance. The existing pavement is in fair condition. The unimproved cross section and significantly substandard vertical geometry creates safety and drainage problems including water over the roadway during heavy rains. Two existing crest vertical curves on the north end of the project are substandard which only provides a safe travel speed of 25 mph, 30 mph lower than the posted speed limit. The project segment had an average annual daily traffic (AADT) of 5,000 in based on 2025 data collection. The intersection with CTH CW has experienced multiple injury accidents in the past 3-years and has a crash rate 2x the statewide average. The 5-year crash rate for the project segment is 347, which is 4.5x the statewide average for 2-lane rural roads. The UPRR over CTH P was reconstructed in 2020 to create a lateral clear width of 40-feet. Prior to the replacement of the UPRR bridge, the CTH P roadway cross section was restricted to 24-feet, not allowing for lateral clearance improvements. The existing vertical clearance under the UPRR bridge is 14'-2" and substandard.

Alternatives

Continue to maintain the existing facility in its current configuration. This alternative is not recommended since it does not address the substandard geometry on a priority north-south corridor, nor does it address safety and function issues on this roadway segment.

Ongoing Operating Costs

Ongoing operating costs are not expected to change.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH ES, Atkinson St to CTH NN	Project #:	202506
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Formation	Road Name:	Fox Street
Budget Action:	Delay	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2026	2027	2028	2029	2030	Total
Project Phase		Design	Land Acq		Construction	Project
Expenditure Budget	\$0	\$22,900	\$50,000	\$0	\$176,900	\$249,800
Revenue Budget	<u>\$0</u>	<u>\$0</u>	<u>\$40,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$40,000</u>
Net Costs After Revenues Applied	\$0	\$22,900	\$10,000	\$0	\$176,900	\$209,800
COST DOCUMENTATION			REVENUE			
Design		\$89,400	Federal STP-U Design			\$91,500
WisDOT Design Review		\$25,000	Federal STP-U Land Acquisition			\$40,000
Land Acquisition		\$50,000	Federal STP-U Construction			\$707,600
Construction		\$745,000	(All Anticipated)			
Construction Management		\$74,500				
WisDOT Construction Review		\$25,000				
Contingency		\$40,000				
Total Project Cost		\$1,048,900	Total Revenue			\$839,100
EXPENDITURE BUDGET		\$249,800	REVENUE BUDGET			\$40,000

Project Scope & Description

The 0.7-mile project will mill and resurface the existing asphalt pavement on CTH ES (Fox Street). Existing curb and gutter, storm water inlets and curb ramps will be evaluated and improved as necessary. Bridge preservation treatments will be investigated for B-67-249. The county will apply for Surface Transportation Program – Urban (STP-U) project funding in the next program cycle. Project design was delayed to 2027 and construction to 2030 to better align with STP program application cycle schedule.

Location

Village of Mukwonago

Analysis of Need

The existing asphalt pavement has a PCI rating of 49 and is in poor condition and deteriorating and needs to be rehabilitated. The pavement was last rehabilitated in 1972 and 1995. The project limits include bridge over the Canadian National Railroad (B-67-249) which was built in 1995. The existing bridge approaches have settled, and the bridge is due for deck preservation which may consist of deck sealing or epoxy overlay.

Alternatives

The pavement will need to be milled and resurfaced either from the county funded annual paving program or from an 80% federally funded STP program.

Ongoing Operating Costs

No change in operating costs is expected with the proposed project.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH CW, Amber Lane to CTH P	Project #:	202508
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Formation	Road Name:	Mapleton Road
Budget Action:	Delay	Manager:	Allison Bussler, DPW Director
Date:	June 16, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2029	2030	2031	2032	2033	Total
Project Phase	Design		Land Acq		Construction	Project
Expenditure Budget	\$125,200	\$0	\$500,000	\$0	\$1,114,000	\$1,739,200
Revenue Budget	\$0	\$0	\$400,000	\$0	\$0	\$400,000
Net Costs After Revenues Applied	\$125,200	\$0	\$100,000	\$0	\$1,114,000	\$1,339,200
COST DOCUMENTATION			REVENUE			
Design		\$576,000	Federal STP-R Design			\$500,800
WisDOT Design Review		\$50,000	Federal STP-R Real Estate			\$400,000
Land Acquisition		\$500,000	Federal STP-R Construction			\$4,456,000
Construction		\$4,800,000	(All Anticipated)			
Construction Management		\$480,000				
WisDOT Construction Review		\$50,000				
Contingency		\$240,000				
Total Project Cost		\$6,696,000	Total Revenue			\$5,356,800
EXPENDITURE BUDGET		\$1,739,200	REVENUE BUDGET			\$400,000

Project Scope & Description

The 3.75-mile project includes the rehabilitation of CTH CW pavement and investigation of shoulder and safety clearance widths. Spot locations will be evaluated for roadway profile improvements to increase stopping sight distance. Land acquisition will be necessary to construct safety clearances and improved roadway profiles. The Union Pacific Railroad (UPRR) at-grade rail crossing will be evaluated for profile improvement and other crossing upgrades. Spot intersection geometry improvements will be evaluated. The county will apply for federal Surface Transportation Program-Rural (STP-R) funding for design, real estate, and construction in 2028, a delay from the previous plan.

Location

Town of Oconomowoc

Analysis of Need

CTH CW is a major collector connecting WIS 67 and WIS 83 in northwestern Waukesha County. The existing asphalt pavement is in poor condition for much of the project length, the existing shoulders and safety clearance widths are substandard and vertical profiles don't allow for adequate safety sight distance. The 5-year crash rate is 439, which is 5.7x the statewide average for rural 2-lane roads. The 5-year KAB crash rate (i.e. severe crashes) is 35, which is 2x the statewide average for rural 2-lane roads. CTH CW supports agricultural roadway traffic and does not have shoulder width to allow for safe and legal passing.

Alternatives

Continue to maintain the existing facility. This alternative is not recommended since it does not address the substandard cross section or safety sight distance.

Ongoing Operating Costs

Ongoing operating costs are not expected to change.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH D,CTH X Intersection	Project #:	202509
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	Sunset Dr & Genesee Rd
Budget Action:	C - Scope C - \$ Update C - Rev Update	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase	Design	Design	Land Acq	Construction		Project
Expenditure Budget	\$10,000	\$31,000	\$50,000	\$191,000	\$0	\$282,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$10,000	\$31,000	\$50,000	\$191,000	\$0	\$282,000
COST DOCUMENTATION			REVENUE			
Design	\$297,000		Federal Highway Safety Improvement Program (HSIP) Funding			
WisDOT Design Review	\$25,000					
Land Acquisition	\$50,000		Design			\$281,000
Construction	\$1,554,000		Construction			\$1,715,000
Construction Management	\$250,000					
WisDOT Construction Review	\$20,000					
Contingency	\$82,000					
Total Project Cost	\$2,278,000		Total Revenue		\$1,996,000	
EXPENDITURE BUDGET	\$282,000		REVENUE BUDGET			\$0

Project Scope & Description

The purpose of this project is to improve safety and the intersection of CTH D (Sunset Drive) and CTH X (Genesee Road). Changes to the existing CTH D and CTH X intersection will provide safer traffic signal control, improve visibility for turning vehicles, reduce collisions and provide safer pedestrian crossings. Improvements include:

- Installation of positive offset left turn lanes on CTH D and flashing yellow arrows
- Decrease angle of right-turn lane intersection with cross streets
- Installation of monotube mast arms with backplates
- Improve lighting
- Widen CTH X median by 2-feet and eliminating CTH X corrugated medians
- Separating thru and left turn lanes and replacing with double edge lines
- Milling and repaving functional area of interest and installation of grooved epoxy pavement markings
- Updating pedestrian curb ramps

Waukesha County received Highway Safety Improvement Program (HSIP) funding for this intersection improvement. Gross project cost decreased by \$632,000 and the Waukesha County share of expenditures decreased by \$63,000.

Location

City of Waukesha

Analysis of Need

This intersection has one of the highest collision rates at signalized intersections along Waukesha County Trunk Highways. Visibility of oncoming traffic is somewhat restricted by the existing alignments of CTH D's turn lanes for safely completing left turns and right turns from CTH X onto CTH D. The traffic signals are owned by Waukesha County and operated by City of Waukesha.

Alternatives

The alternative is leaving the intersection as is.

Ongoing Operating Costs

There may be a minor operational cost increase anticipated due to increased signal equipment.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH K, CTH JK to Brookfield Road	Project #:	202514
Department:	Public Works - Highways	Project Type:	Priority Corridor
Phase:	Formation	Road Name:	Lisbon Road
Budget Action:	C - Scope C - Rev Update C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	August 27, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY							
Year	2025	2026	2027	2029	2031	2032+	Total
Project Phase	Planning Study	Design	Design	Land Acq	Const Phase 1	Const Phases	Project
Expenditure Budget	\$200,000	\$850,000	\$1,960,000	\$18,500,000	\$6,250,000	\$12,900,000	\$40,660,000
Revenue Budget	\$0	\$0	\$0	\$14,800,000	\$0	\$0	\$14,800,000
Net Costs After Revenues Applied	\$200,000	\$850,000	\$1,960,000	\$3,700,000	\$6,250,000	\$12,900,000	\$25,860,000
COST DOCUMENTATION				REVENUE			
Planning Study	\$200,000						
Design	\$9,150,000			Federal STP-M Design			\$6,640,000
WisDOT Design Review	\$300,000			Federal STP-M Land Acquisition			\$14,800,000
Land Acquisition	\$18,500,000			Federal STP-M Construction			\$51,600,000
Construction	\$83,000,000			Federal BUILD Grant			\$25,000,000
Construction Management	\$8,300,000			(All Anticipated)			
WisDOT Construction Review	\$300,000						
Contingency	\$4,150,000						
Total Project Cost	\$123,900,000			Total Revenue			\$98,040,000
EXPENDITURE BUDGET	\$40,660,000			REVENUE BUDGET			\$14,800,000

Project Scope & Description

The 6-mile project involves a preliminary planning study to evaluate reconstruction alternatives including a future 4-lane expansion of CTH K between CTH JK (Lynndale Road) and Brookfield Road. The preliminary planning study will help determine staging and scheduling options, construction and land acquisition costs and identify project delivery risks. The preliminary planning study will also reevaluate whether a grade separation over the Canadian National Railroad (CNRR) is feasible and cost effective and will update a previous study that was completed in 2007. The preliminary planning study will include public involvement and coordination with the communities, businesses, property owners, railroad, emergency responders, and resource agencies. The initial findings from the preliminary planning study support adding capacity, overpassing the CNRR and improving intersections. At the conclusion of the study later this year, the county will have determined a detailed project scope, schedule, and cost and will be prepared to apply for federal funding through STP in the 2030-31 and future program cycles and future Better Utilizing Investments to Leverage Development (BUILD) Grant solicitations. Project costs represent updated planning level estimates for a 4-lane divided roadway. The east project limit is being extended to Brookfield Road to better address existing pavement conditions, roadway safety and logical termini for federal and state environmental coordination. Design funding is scheduled in 2026 to support the completion of an environmental study and additional federal discretionary funding applications. Design funding is scheduled in 2027 to cover corridor design. Corridor land acquisition is scheduled in 2029, and construction is being phased for funding and construction staging purposes, beginning in 2031. Project costs are based on a traditional 20% cost share for all project phases.

Location

Village of Lisbon, Village of Sussex, Village of Menomonee Falls, and City of Brookfield

Analysis of Need

The original pavement was built in 1961-62, is in poor condition and projected to be in serious to very poor condition by 2035. CTH K, within the project segment, has a current average annual daily traffic (AADT) of over 14,000 and a very high truck percentage of 20%. Traffic volume continues to increase along this important east-west arterial due to residential and commercial growth. There have been 4 fatal and 85 injury crashes along the project segment over the last 5-years. The 5-year crash rate is 285 and 3.4x the statewide average. The 5-year KAB crash rate is 58 and 3x the statewide average. The Canadian National (CN) Railroad has an at-grade crossing (US DOT crossing #692245A) in the project limits. CN Railroad runs 34 total trains per day (TTPD) across CTH K. The forecasted 2055 traffic volume on CTH K is 16,700. The combination of increasing traffic volume and existing train crossings will create an exposure factor of 567,800 by 2055. Including the CN Railroad crossing at CTH K, CTH VV and CTH F, there are 3-crossings within 1.5-miles with an existing combined exposure factor of 1,050,600 and projected to exceed 1.5 million by 2055. Drivers experience 40 to 63 hours of delay at the CTH K/CNRR crossing. Additional traffic growth on CTH K will increase rail crossing conflicts and delay.

Project Title:	CTH K, CTH JK to Brookfield Road	Project #:	202514
Department:	Public Works - Highways	Project Type:	Priority Corridor
Phase:	Formation	Road Name:	Lisbon Road
Budget Action:	C - Scope C - Rev Update C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	August 27, 2025	Map / Image:	Click Here

Alternatives

- Do Nothing. This alternative would continue pavement resurfacing through the paving program, but would not address growing level of service, safety and railroad crossing delay.
- Complete a preliminary planning study to determine reconstruction preferred alternative, segment staging, scheduling and cost estimates and apply for federal STP funding in the next program cycle (2026).

Ongoing Operating Costs

Operating costs would be determined by the preferred alternative through the completion of a preliminary planning study. If capacity expansion is selected, operating costs would be expected to increase by \$8,300/lane mile or a total annual increase of \$74,700. If a grade separated crossing of the CN Railroad is selected, there would be an annualized operating cost increase for inspection and maintenance of the new structure, estimated to be \$5,000.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH KE – CTH E Intersection	Project #:	202520
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Preliminary Design	Road Name:	Maple Ave & North Shore Dr
Budget Action:	C - \$ Update C - Rev Update	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map/Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase	Design	Design/Land		Const		Project
Expenditure Budget	\$195,000	\$155,000	\$0	\$1,059,000	\$0	\$1,409,000
Revenue Budget	\$0	\$0	\$0	\$847,000	\$0	\$847,000
Net Costs After Revenues Applied	\$195,000	\$100,000	\$0	\$1,521,000	\$0	\$562,000
COST DOCUMENTATION			REVENUE			
Design		\$250,000	Federal CRP (Construction)			\$847,000
Land Acquisition		\$100,000				
Construction		\$921,000				
Construction Management		\$92,000				
Contingency		\$46,000				
Total Project Cost		\$1,409,000	Total Revenue			\$847,000
EXPENDITURE BUDGET		\$1,409,000	REVENUE BUDGET			\$847,000

Project Scope & Description

The purpose of this project is to build a single-lane compact roundabout at the intersection of CTH KE (North Shore Drive) and CTH E (Maple Avenue). This change to the existing CTH KE and CTH E intersection will provide safer traffic control, reduce collisions, improve visibility for turning vehicles, and reduce delays for the traveling public. Improvements would include:

- Build a central island with a diameter between 80 feet & 100 feet and a height of 4 to 10 inches with a traversable curb
- Build a lane width of 16 feet
- Build splitter islands on each approach with a traversable curb
- Add pedestrian accommodations
- Add 4-quadrant street lighting

DPW received Federal Carbon Reduction Program (CRP) funding for construction for the compact roundabout. Federal CRP funding is not available for design or land acquisition. The CRP federal funding revenue is \$369,800 lower than previously anticipated and construction cost was reduced to reflect better understanding of compact roundabout design requirements and to match an 80%/20% federal/county cost share. Design costs are increased by \$55,000 based on federalized design process and negotiated contract. Overall net county expenditure has been reduced by \$37,200.

Locations

Village of Hartland and Town of Delafield

Analysis of Need

The intersection is in a well-developed area with a mix of residential and commercial uses. On CTH KE (North Shore Drive) the intersection is uphill for both eastbound and west traffic. The residents use this area for exercise and some children walk across the intersection to reach school. The commercial uses attract heavy vehicle traffic that is often unfamiliar with the intersection. Being unfamiliar with the area, and approaching the intersection uphill, they often do not see the stop signs and run through the intersection.

Over the five-year period from January 2019 and December 2023 there have been 14 crashes at the intersection. At least 7 of these crashes could have been mitigated with the installation of a compact roundabout.

Alternatives

Leave the existing all way stop traffic control at the intersection in place.

Ongoing Operating Costs

Maintenance costs for the roundabout should be lower than for the existing all way stop. Some additional operational costs will be associated with street lighting utility cost.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	CTH YY, CTH VV to WIS 175	Project #:	202521
Department:	Public Works - Highways	Project Type:	Repaving
Phase:	Formation	Road Name:	Pilgrim Road
Budget Action:	C - Rev Update C - \$ Update	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2025	2026	2027	2028	2029	Total
Project Phase	Design		Construction			Project
Expenditure Budget	\$0	\$660,000	\$0	\$7,380,000	\$0	\$8,040,000
Revenue Budget	\$0	\$0	\$0	\$1,954,000	\$0	\$1,954,000
Net Costs After Revenues Applied	\$0	\$660,000	\$0	\$5,426,000	\$0	\$6,086,000
COST DOCUMENTATION			REVENUE			
Design	\$640,000		Traffic Signal Replacement			
WisDOT Design Review	\$20,000		Federal CRP (Construction)			\$1,954,000
Construction	\$6,400,000					
Construction Management	\$640,000					
WisDOT Construction Review	\$20,000					
Contingency	\$320,000					
Total Project Cost	\$8,040,000		Total Revenue			\$1,954,000
EXPENDITURE BUDGET	\$8,040,000		REVENUE BUDGET			\$1,954,000

Project Scope & Description

The existing asphalt pavement will be milled and overlaid to extend the pavement life and improve surface condition on the 3.5-mile-long project. Urban drainage and curb and gutter will be reviewed for improvements. Rehabilitation to bridge approach pavement, parapets and curb and gutter for B-67-57 will be investigated. DPW received federal Carbon Reduction Program (CRP) funding for the construction phase of replacement and upgrade to the traffic signals at Kendall Place, Mill Road, and CTH W (Good Hope Road). Federal CRP funding is not available for design. Revenue budget decreased by \$254,400 due to the CRP funding being lower than the application amount. Design budget increased by \$320,000 to reflect standard design cost.

Location

Village of Menomonee Falls

Analysis of Need

The northern project segment between WIS 175 and CTH W was constructed in 1989 and was last rehabilitated in 2006. The southern project segment between CTH W and CTH VV was constructed in 2000 and has not been rehabilitated. The existing asphalt pavement has a PCI rating between 55-69, ranging from poor to fair condition. Pilgrim Road carries 18,000 vehicles per day on the project segment. The segment between CTH VV and CTH W is 4-lane divided by median. The project segment between CTH W and WIS 175 is a 5-lane cross section that will require planned traffic management to repave safely and effectively. A large bridge (B-67-57) is within the project limits and approach pavement, parapets, and curb and gutter have settled over time and require rehabilitation. The traffic signal equipment at the intersections of Kendall, Mill, and Good Hope roads are original to the initial construction. The traffic signal equipment is approaching the end of its life cycle.

Alternatives

The pavement will need to be milled and resurfaced either from the county-funded annual paving program or from a stand-alone county-funded project. Completing the repaving as a stand-alone county-funded project allows for improved traffic management and bridge approach rehabilitation versus completing in the annual paving program.

Ongoing Operating Costs

No change in operating costs is expected with the proposed project.

Previous Action

Approved as a new project in the 2025-2029 capital plan.

Project Title:	Traffic Signal Equipment Replacements	Project #:	202601
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Program Project	Road Name:	Various
Budget Action:	New	Manager:	Allison Bussler
Date:	June 16, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2026	2027	2028	2029	2030	Total
Project Phase	Design/Const	Construction	Construction	Construction	Construction	Project
Expenditure Budget	\$351,000	\$200,000	\$1,090,000	\$200,000	\$200,000	\$2,041,000
Revenue Budget	<u>\$120,000</u>	<u>\$0</u>	<u>\$710,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$830,000</u>
Net Costs After Revenues Applied	\$231,000	\$200,000	\$380,000	\$200,000	\$200,000	\$1,211,000
COST DOCUMENTATION			REVENUE			
	Cabinet Repl.					
	<u>County</u>	<u>Fed Project</u>	<u>Total</u>			
2026	\$200,000	\$151,000	\$351,000	Federal CMAQ Funding-Design		\$120,000
2027	\$200,000	\$0	\$200,000	Federal CMAQ Funding-Construction		\$710,000
2028	\$200,000	\$890,000	\$1,090,000	(Reimbursement)		
2029	\$200,000	\$0	\$200,000			
2030	\$200,000	\$0	\$200,000			
Total Project Cost			\$2,041,000	Total Revenue		\$830,000
EXPENDITURE BUDGET			\$2,041,000	REVENUE BUDGET		\$830,000

Project Scope & Description

The project will fund traffic signal equipment replacements countywide. Equipment replacements will be prioritized based on age and condition of existing components including control cabinets and cabinet components, video detection, standards and arms, face sections, bases, electrical wiring, lighting luminaires and pedestrian control equipment. Annual equipment replacements will help maintain a state of good repair for the county's existing and extensive traffic signal network.

Location

Countywide

Analysis of Need

One-third of traffic crashes in Waukesha County occur at signalized intersections. It is important that Waukesha County maintain the county traffic signal equipment to improve safety performance and traffic flow. Replacing old and outdated signal equipment components improves functional reliability and safety. Waukesha County owns and maintains 125 signalized intersections. Each intersection has unique signal component conditions. Many of Waukesha County's signalized intersections are utilizing aging and outdated equipment. The county can fund some traffic signal replacements and upgrades through federally funded STP and HSIP projects. However, the county has only been able to upgrade an average of one traffic signal via federally funded projects each year. The county needs to have a reliable funding source to perform traffic signal replacements. The county will continue to pursue CRP/CMAQ federal funding to supplement traffic signal equipment replacements. The county was awarded federal CMAQ funding for 17 cabinet replacements.

Alternatives

Defer equipment replacements until failure or replacement by individual capital roadway project.

Ongoing Operating Costs

Reduced operating costs due to improved traffic signal reliability and fewer field maintenance responses.

Previous Action

None

Project Title:	CTH Y, CTH HH Roundabout	Project #:	202603
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	Racine Avenue
Budget Action:	New	Manager:	Allison Bussler
Date:	June 9, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2026	2027	2028	2029	2030	Total
Project Phase	Design		Construction			Project
Expenditure Budget	\$0	\$390,200	\$0	\$3,310,300	\$0	\$3,700,500
Revenue Budget	<u>\$0</u>	<u>\$312,000</u>	<u>\$0</u>	<u>\$2,648,000</u>	<u>\$0</u>	<u>\$2,960,000</u>
Net Costs After Revenues Applied	\$0	\$78,200	\$0	\$662,300	\$0	\$740,500
COST DOCUMENTATION			REVENUE			
Design	\$340,200		Design (CRP Anticipated)			\$312,000
WisDOT Design Review	\$50,000		Construction (CRP Anticipated)			\$2,648,000
Land Acquisition	\$0					
Construction	\$2,835,000					
Construction Management	\$283,500					
WisDOT Construction Review	\$50,000					
Contingency	\$141,800					
Total Project Cost	\$3,700,500		Total Revenue			\$2,960,000
EXPENDITURE BUDGET	\$3,700,500		REVENUE BUDGET			\$2,960,000

Project Scope & Description

The proposed project involves converting the signalized intersection at CTH Y (Racine Avenue) and CTH HH (College Avenue) to a modern roundabout. The project is planned to be completed in coordination with existing capital project #202301. The modern roundabout would be a multilane configuration with reconstructed asphalt roadway pavement, concrete center island and truck aprons, new LED energy-efficient lighting and overhead signs and sign structures. The project is dependent upon receiving CRP federal funding, which will be applied for in 2025.

Location

City of New Berlin and City of Muskego

Analysis of Need

A temporary traffic signal was installed after the opening of a Fleet Farm and gas station in the southeast quadrant of the intersection. Existing capital project #202301 does not include funding for a permanent signal installation. The intersection of CTH Y and CTH HH currently observes an average daily entering volume of over 20,000 vehicles. The intersection is in a growing community near a semi-undeveloped freeway interchange. Future traffic growth is anticipated. The roundabout has the capacity to accommodate growing volumes, thereby reducing congestion and improving safety. Five right-angle crashes occurred between 2019-2023 including a fatal crash in 2020. The proposed roundabout is expected to significantly improve traffic flow and safety by reducing the potential for fatal and serious injury crashes, while addressing congestion and vehicle emissions.

Alternatives

The do nothing alternative would keep the temporary traffic signal in place and not improve safety or traffic operations.

Ongoing Operating Costs

Operating costs for a roundabout would be lower than with the existing temporary traffic signal installation.

Previous Action

None

Project Title:	CTH ES, Edgewood Avenue Roundabout	Project #:	202604
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	National Avenue
Budget Action:	New	Manager:	Allison Bussler
Date:	June 9, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2026	2027	2028	2029	2030	Total
Project Phase		Design	Land Acq		Construction	Project
Expenditure Budget	\$0	\$378,000	\$503,000	\$0	\$3,189,500	\$4,070,500
Revenue Budget	<u>\$0</u>	<u>\$303,000</u>	<u>\$403,000</u>	<u>\$0</u>	<u>\$2,552,000</u>	<u>\$3,258,000</u>
Net Costs After Revenues Applied	\$0	\$75,000	\$100,000	\$0	\$637,500	\$812,500
COST DOCUMENTATION			REVENUE			
		Total				
Design		\$328,000	Design (CRP Anticipated)			\$303,000
WisDOT Design Review		\$50,000	Land Acquisition (CRP Anticipated)			\$403,000
Land Acquisition		\$503,000	Construction (CRP Anticipated)			\$2,552,000
Construction		\$2,730,000				
Construction Management		\$273,000				
WisDOT Construction Review		\$50,000				
Contingency		<u>\$136,500</u>				
Total Project Cost		\$4,070,500	Total Revenue			\$3,258,000
EXPENDITURE BUDGET		\$4,070,500	REVENUE BUDGET			\$3,258,000

Project Scope & Description

The proposed project will convert the two-way stop-controlled intersection at CTH ES and Edgewood Avenue to a single-lane modern roundabout. Current operations at this intersection are poor, with severe congestion occurring during peak hours. Traffic control and geometric changes are necessary to achieve safer and more efficient operations. The conversion to a roundabout is expected to improve traffic flow, reduce congestion, and enhance safety by lowering the risk of fatal and serious injury crashes. The project is dependent upon receiving CRP federal funding, which will be applied for in 2025.

Location

Village of Mukwonago and Village of Vernon

Analysis of Need

The intersection of CTH ES and Edgewood Avenue serves 11,000 vehicles per day. During peak hours, more than 23% of the total daily traffic occurs, resulting in significant northbound congestion. A traffic count and traffic signal warrant analysis demonstrate that traffic signal warrants are met, meaning both a traffic signal and a roundabout are viable alternatives. However, a roundabout offers significant benefits in terms of safety and traffic flow.

In the past five years (2019-2023), eight crashes occurred at this intersection, including five right-angle crashes and three rear-end crashes. Existing intersection geometry creates substandard sight distance for vehicles stopped on Edgewood Avenue. The installation of a roundabout is expected to eliminate right-angle crashes, improve traffic flow and eliminate substandard sight distance, leading to enhanced safety.

Alternatives

Do nothing alternative does not address the existing poor intersection operations and the northbound travel delay.

Ongoing Operating Costs

Annual operating expense for lighting energy of \$2,000.

Previous Action

None

Project Title:	CTH NN Traffic Signals, CTH EE and Fairwinds Boulevard, Mukwonago High School	Project #:	202605
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	W. Veterans Way
Budget Action:	New	Manager:	Allison Bussler
Date:	July 14, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2026	2027	2028	2029	2030	Total
Project Phase	Design	Construction				Project
Expenditure Budget	\$250,000	\$1,620,000	\$0	\$0	\$0	\$1,870,000
Revenue Budget	\$0	\$1,265,000	\$0	\$0	\$0	\$1,265,000
Net Costs After Revenues Applied	\$250,000	\$355,000	\$0	\$0	\$0	\$605,000
COST DOCUMENTATION			REVENUE			
Design		\$240,000	Construction (Federal CRP)			\$1,265,000
WisDOT Design Review		\$10,000				
Construction		\$1,400,000				
Construction Management		\$140,000				
WisDOT Construction Review		\$10,000				
Contingency		\$70,000				
Total Project Cost		\$1,870,000	Total Revenue			\$1,265,000
EXPENDITURE BUDGET		\$1,870,000	REVENUE BUDGET			\$1,265,000

Project Scope & Description

The project involves full replacement of traffic signal equipment at CTH NN & CTH EE (School Road) and CTH NN & Fairwinds Boulevard, which provide access to Mukwonago High School. The project includes installation of retroreflective backplates, energy-efficient LED streetlights and signal displays, fiber optic cable for signal interconnectivity, video detection updates, and optimized signal timings. The project will include coordination with WisDOT to provide interconnectivity between the WIS 83 & CTH NN intersection and the project traffic signals. The project has been approved for CRP federal funding.

Location

Village of Mukwonago.

Analysis of Need

Existing traffic signals were built in 1999. The existing traffic signal equipment is outdated and in need of replacement. The new interconnected and coordinated signals, coupled with energy-efficient LED bulbs, will enhance traffic flow and safety. Anticipated crash reductions of 20% due to the addition of retroreflective backplates and signal heads over each lane will provide significant safety performance benefits at the entrances to Mukwonago High School. CTH NN has an AADT of 14,000 vehicles per day in the project segment. The CTH NN intersections at CTH EE and Fairwinds Boulevard have experienced a combined 21 crashes, including 6 injury crashes between 2019-2024.

Alternatives

Do nothing alternative does not address the age and deficiencies of the existing signal equipment and will require increased site visits to trouble shoot issues and incremental equipment replacements.

Ongoing Operating Costs

Reduced operating costs due to energy-efficient signal displays and lighting. New equipment life cycle results in less equipment failure, staff sight visits to respond to issues and lower equipment component replacement costs.

Previous Action

None

Project Title:	Traffic Signal Optimization-Countywide Retiming Project	Project #:	202606
Department:	Public Works - Highways	Project Type:	Intersection
Phase:	Formation	Road Name:	Various
Budget Action:	New	Manager:	Allison Bussler
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2026	2027	2028	2029	2030	Total
Project Phase	Design					Project
Expenditure Budget	\$0	\$0	\$0	\$1,025,000	\$0	\$1,025,000
Revenue Budget	\$0	\$0	\$0	\$820,000	\$0	\$820,000
Net Costs After Revenues Applied	\$0	\$0	\$0	\$205,000	\$0	\$205,000
COST DOCUMENTATION			REVENUE			
		Total	Design (CMAQ or CRP Anticipated)			\$820,000
Design		\$1,000,000				
WisDOT Design Review		\$25,000				
Total Project Cost		\$1,025,000	Total Revenue			\$820,000
EXPENDITURE BUDGET		\$1,025,000	REVENUE BUDGET			\$820,000

Project Scope & Description

The project will optimize the operations of the county's traffic signal system to enable users to move in a safe and efficient manner across the county. Each intersection will have an intersection turning movement count completed, intersection operations model developed, delay analysis and new efficient signal timings developed and implemented. Urban multi-signal corridors will include progression modeling and interconnected traffic signal timings. Optimizing traffic signal timings will complement existing capital project #202403, Signal Controller Replacement, by utilizing new signal controller technologies and optimized signal timings to provide improved traffic flow, safer intersections, less travel delay and lower emissions. The project is dependent upon receiving CMAQ or CRP federal funding, which will be applied for in 2025.

As a project that will consist of contracting with a professional services firm for design and implementation requiring less time for obligation of federal funds, county funding flexibility for this project may allow the county to take advantage of future federal redistribution funding.

Location

Countywide

Analysis of Need

Waukesha County owns 125 traffic signals. Many of these signals have not had updated intersection traffic counts and updated traffic signal timings completed for many years. The county continues to see development and increased traffic on county highways. It is important to update traffic signal timings to accurately reflect traffic demands. Traffic signals with old timings do not operate efficiently and this results in drivers experiencing more delay and frustration at signalized intersections. Driver frustration over outdated signal timings can lead to aggressive driving behavior and increase intersection safety issues.

Consistently completing traffic signal optimization, including intersection counts, operations modeling, and development and implementation of updated signal timings on a reoccurring schedule is cost prohibitive in the current DPW operating budget.

Alternatives

The do nothing alternative will require the county to prioritize limited operating budget to complete updated traffic signal timings on a small number of intersections each year.

Ongoing Operating Costs

Reduced operating costs due to improved traffic signal operational and safety performance resulting from less staff time responding to signal timing complaints and field visits trouble shooting signal timing concerns. Operating budget savings over time due to updated intersection traffic count collection done as part of project.

Previous Action

None

Project Title:	CTH Z, Northey Rd to Scuppernong Creek	Project #:	202611
Department:	Public Works - Highways	Project Type:	Rehabilitation
Phase:	Formation	Road Name:	Ottawa Avenue
Budget Action:	New	Manager:	Allison Bussler
Date:	June 16, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2026	2027	2028	2029	2030	Total
Project Phase	Design		Construction			Project
Expenditure Budget	\$0	\$163,000	\$0	\$1,878,000	\$0	\$2,041,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$0	\$163,000	\$0	\$1,878,000	\$0	\$2,041,000
COST DOCUMENTATION			REVENUE			
Design	\$243,000		Federal HSIP-HRRRP Design*			\$105,000
WisDOT Design Review	\$25,000		Federal HSIP-HRRRP Construction*			\$965,000
Construction	\$2,450,000		(* Anticipated)			
Construction Management	\$245,000					
WisDOT Construction Review	\$25,000					
Contingency	\$123,000					
Total Project Cost	\$3,111,000		Total Revenue			\$1,070,000
EXPENDITURE BUDGET	\$2,041,000		REVENUE BUDGET			\$0

Project Scope & Description

WisDOT completed a Corridor Safety Evaluation for CTH Z to analyze whether potential safety improvements would mitigate existing crash problems through a federally funded High Risk Rural Roads Program (HRRRP) Project. The 4.83-mile project will implement recommended safety measures and rehabilitate the existing asphalt pavement. Safety measures include centerline rumble strips, 6-inch high visibility pavement markings, removing tress/vegetation, sign upgrades, clear zone enhancements and pavement treatments. DPW will apply for HSIP-HRRRP funding in 2025. County-funded pavement rehabilitation will be done at the same time as the federally funded safety improvements to effectively install pavement related safety improvements.

Location

Town of Ottawa.

Analysis of Need

CTH Z has a history of run-off-the-road (ROR) crashes and is functionally classified as a major collector. The history of ROR crashes and functional classification make CTH Z eligible for HRRRP federal funding. During the 2017-2021 evaluation period, CTH Z experienced 11 ROR crashes, 2.28 ROR crashes per mile and 5 ROR KAB crashes contributing to a ROR KAB rate of 1.04 per mile. CTH Z has an AADT of 710 vehicles based on the latest (2018) traffic count. The existing asphalt pavement is projected to be in poor to good condition in the anticipated construction year (2029) based on the latest (2023) inspection.

Alternatives

Decline the WisDOT recommended HRRRP project application and forego the potential safety improvements along the corridor.

Ongoing Operating Costs

No additional annual operating costs are expected with the proposed project.

Previous Action

None

Project Title:	Culvert Replacement Program 2028-2032	Project #:	202414
Department:	Public Works - Highways	Project Type:	Bridge
Phase:	Program Project	Road Name:	Various
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY						
Year	2028	2029	2030	2031	2032	Total
Project Phase						Project
Expenditure Budget	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Cost After Revenues Applied	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
COST DOCUMENTATION				REVENUE		
2028 Appropriation	\$200,000					
2029 Appropriation	\$200,000					
2030 Appropriation	\$200,000					
2031 Appropriation	\$200,000					
2032 Appropriation	\$200,000					
Total Project Cost	\$1,000,000					
EXPENDITURE BUDGET	\$1,000,000					
				Total Revenue		\$0
				REVENUE BUDGET		\$0

Project Scope & Description

Provide annual funding for a countywide culvert replacement program.

Location

Various

Analysis of Need

The Public Works Department replaces culverts every year because of deterioration. This program is designed to address larger culvert structures that require extensive design, more land acquisition and have higher construction costs. These larger culvert sites do not meet "bridge" criteria, and therefore are not eligible for federal bridge aid. Projects in this program are 100% county funded. Individual culvert locations are generally designed the year prior to construction.

Alternatives

Schedule individual projects as needed.

Ongoing Operating Costs

The projects do not require departmental budget operating expenditures. Projects are reviewed by County engineering staff.

Previous Action

Approved as new in the 2024-2028 capital plan. Approved as planned in the 2025-2029 capital plan.

Project Title:	Repaving Program 2023-2027	Project #:	201906
Department:	Public Works - Highways	Project Type:	Repaving
Phase:	Program Project	Road Name:	Various
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY															
Year			2023	2024	2025	2026	2027	Total							
Project Phase															
Expenditure Budget			\$4,300,000	\$5,510,000	\$5,820,000	\$4,300,000	\$5,200,000	\$25,130,000							
Revenue Budget			<u>\$1,242,000</u>	<u>\$610,000</u>	<u>\$3,710,000</u>	<u>\$2,510,000</u>	<u>\$610,000</u>	<u>\$8,682,000</u>							
Net Cost After Revenues Applied			\$3,058,000	\$4,900,000	\$2,110,000	\$1,790,000	\$4,590,000	\$16,448,000							
COST DOCUMENTATION					REVENUE										
					Local Road Improvement Program:										
					County Highway Improvement Program (CHIP)										
					CHIP-D (Discretionary)										
					CHIP-S (Supplemental)										
						Paver Study	Hwy Paving & Shouldering	Crack Seal/Fill, Reshouldering	Preservation	Total		CHIP	CHIP-D	CHIP-S	Total
					2023	\$50,000	\$4,250,000	\$0		\$4,300,000	2023	\$430,000	\$812,000	\$0	\$1,242,000
2024	\$50,000	\$5,460,000	\$0		\$5,510,000	2024	\$350,000	\$260,000	\$0	\$610,000					
2025	\$50,000	\$5,270,000	\$500,000		\$5,820,000	2025	\$350,000	\$260,000	\$3,100,000	\$3,710,000					
2026	\$50,000	\$3,750,000	\$500,000		\$4,300,000	2026	\$350,000	\$260,000	\$1,900,000	\$2,510,000					
2027	\$50,000	\$4,650,000	\$500,000		\$5,200,000	2027	\$350,000	\$260,000	\$0	\$610,000					
Total Project Cost	\$250,000	\$23,380,000	\$1,500,000		\$25,130,000	Total Revenue	\$1,830,000	\$1,852,000	\$5,000,000	\$8,682,000					
EXPENDITURE BUDGET				\$25,130,000	REVENUE BUDGET				\$8,682,000						

Project Scope & Description

The project involves resurfacing or rehabilitation of county trunk highways to remove distressed areas and provide improved riding surfaces. It is the Department of Public Works's goal to pave approximately 20 lane miles of roadway on an annual basis. Crush, relay and surface or other alternative methods will be used as necessary in lieu of a simple patch and overlay. The project includes the cost of the ongoing Pavement Inspection Program, which determines the sections of highways to be repaved, along with the cost of shouldering, and parking lots at the Department's substation facilities.

The repaving program includes two 3-year cycles of asphalt pavement crack sealing/filling and reshouldering to extend the life of the pavement resurfacing/rehabilitation through improved pavement preservation and performance. The repaving program is the largest single reoccurring highway investment and performing crack sealing/filling and reshouldering will extend the life of the repaving investment. Crack sealing helps keep water out of the pavement subgrade, while shouldering helps protect the pavement edge. These preservation practices will help slow the rate of pavement deterioration. The county averaged 16-miles of annual repaving (2018-2025). Based on the previous 8-years of data, the county will repave a typical mile of county highway every 25-years, which is well beyond the expected performance life of pavement resurfacing/rehabilitation that is being completed in the repaving program. Pavement inspection will be completed in 2025 and will provide updated PCI data.

Location: Various locations throughout the county.

Analysis of Need

The Department of Public Works presently maintains about 405 centerline miles of roadways on the county trunk system. The typical useful life of asphalt pavement surface is 15 years. The department reconstructed several existing two-lane roadways to four-lane facilities and many of these four-lane facilities are now coming to the end of their design life and need repaving. As asphalt pavements age, the surface tends to rut and crack due to vehicle loads and weathering of the asphalt. The department has a pavement management program, using a pavement consultant, TransMAP, to drive and capture the entire county system once every three years and to rate pavement conditions each year allowing better management of pavement projects. The average Pavement Condition Index (PCI) of asphaltic pavements in 2023 was 69. It is the intention of this project to continue to maintain current pavement conditions. Resurfacing projects take into consideration the PCI of existing pavements and classification of the road. The PCI ratings are updated every 2 to 3 years.

Alternatives

- Spot repairs and patching. The result will be a slight delay in the deterioration of the system.
- Resurface roadways based on pavement conditions determined by the pavement management system and department review.

Ongoing Operating Costs

The cost of maintaining a two-lane roadway is projected to cost about \$8,300 per mile annually.

Previous Action

Approved as new in the 2019-2023 capital plan. Approved as planned in the 2020-2024 capital plan. Approved with a schedule and revenue update in the 2021-2025 capital plan. Approved with a revenue update in the 2022-2026 capital plan. Approved accelerated and with a revenue update in the 2023-2027 capital plan. Approved accelerated in the 2024-2028 capital plan. Approved with an updated scope and cost and revenue updates in the 2025-2029 capital plan.

Project Title:	Repaving Program 2028-2032	Project #:	202413
Department:	Public Works - Highways	Project Type:	Repaving
Phase:	Program Project	Road Name:	Various
Budget Action:	As Planned	Manager:	Allison Bussler, DPW Director
Date:	June 2, 2025	Map / Image:	Click Here

CAPITAL BUDGET SUMMARY											
Year	2028		2029		2030		2031		2032		Total
Project Phase											
Expenditure Budget					\$7,600,000	\$5,500,000	\$7,600,000	\$5,500,000	\$7,600,000	\$33,800,000	
Revenue Budget					\$2,510,000	\$610,000	\$2,510,000	\$610,000	\$2,510,000	\$8,750,000	
Net Cost After Revenues Applied					\$5,090,000	\$4,890,000	\$5,090,000	\$4,890,000	\$5,090,000	\$25,050,000	
COST DOCUMENTATION						REVENUE Local Road Improvement Program: County Highway Improvement Program (CHIP) CHIP-D (Discretionary) CHIP-S (Supplemental)					
	<u>Paver Study</u>	<u>& Shouldering</u>	<u>Crack Seal/Fill,</u>	<u>Preservation</u>	<u>Total</u>		<u>CHIP</u>	<u>CHIP-D</u>	<u>CHIP-S</u>	<u>Total</u>	
			Hwy Paving Reshouldering								
2028	\$50,000	\$7,050,000	\$500,000		\$7,600,000	2028	\$350,000	\$260,000	\$1,900,000	\$2,510,000	
2029	\$50,000	\$4,950,000	\$500,000		\$5,500,000	2029	\$350,000	\$260,000	\$0	\$610,000	
2030	\$50,000	\$7,050,000	\$500,000		\$7,600,000	2030	\$350,000	\$260,000	\$1,900,000	\$2,510,000	
2031	\$50,000	\$4,950,000	\$500,000		\$5,500,000	2031	\$350,000	\$260,000	\$0	\$610,000	
2032	\$50,000	\$7,050,000	\$500,000		\$7,600,000	2032	\$350,000	\$260,000	\$1,900,000	\$2,510,000	
Total Project Cos	\$250,000	\$31,050,000	\$2,500,000		\$33,800,000	Total Revenue	\$1,750,000	\$1,300,000	\$5,700,000	\$8,750,000	
EXPENDITURE BUDGET					\$33,800,000	REVENUE BUDGET					\$8,750,000

Project Scope & Description

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Ongoing Operating Costs

The cost of maintaining a two-lane roadway is projected to cost about \$8,300 per mile annually.

Previous Action

Approved as new in the 2024-2028 capital plan. Approved with a cost, revenue, and scope update in the 2025-2029 capital plan.