

Citywide Signal System Upgrade Project Phase I

April 2020

Project Background

In 2017, the City was awarded \$2.5 million in federal dollars through the Mid-Ohio Regional Planning Commission to upgrade the signal systems along primary travel corridors through Delaware. The goal of this project is to reduce congestion and improve safety as the City continues to grow. The existing traffic control system installed in 1999, is outdated and does not include current technology to manage increased vehicle and truck movements along major roadways such as William Street, Central Ave, Sandusky Street and London Road. Additional upgrades funded through the Fire Department include the installation of emergency vehicle preemption at key intersections to aid in improving incident response times.



Improvements

The project includes system-wide upgrades to communication infrastructure utilizing a mix of expanded fiber and wireless radio network, improved signal timing, replacement of obsolete signal controllers, and the installation of traffic monitoring cameras, emergency vehicle preemption and upgraded pedestrian signals. The following measurable benefits are anticipated:

- Reduce intersection congestion and delay at intersections, while improving overall travel time through each corridor by installing equipment that can communicate “real time” traffic conditions for the entire system, eliminating isolated signal controllers.
- Reduce emissions and improve quality of life along primary travel corridors, particularly during rush hours.
- Increase safety by reducing the risk of accidents from congestion.
- Improve safety and reduce congestion during power outages by installing uninterruptible power supplies at each signalized intersection.
- Improve safety and reduce emergency response times by installing emergency vehicle preemption, which allows the signal to grant a green indication to approaching emergency vehicles, allowing first responders safer and quicker passage.
- Improve safety and reduce congestion into the future by installing equipment with technology features that are compatible with connected and autonomous vehicles. These technologies provide an opportunity to extend the life of City and MORPC's investment into this essential/critical infrastructure project.



Schedule & Status

Phase	Year	Status
Study & Design	2018-2020	In Progress
Property Acquisition	2020	In Progress
Construction	2021-2020	Pending

Project Budget

Phase	Cost
Survey & Design ¹	\$330,272
Property Acquisition	\$20,000
Construction	\$3,035,000
Total	\$3,385,272

Notes:

¹ These budget costs are based on actual awarded contracts and agreements

Project Funding

The City has been awarded funding through MORPC for \$2,500,000 to cover the majority of the construction costs of the project. The City's local grant match contribution will be approximately \$500,000, which consists of roughly \$350,000 to cover design and right-of-way acquisition and utility relocations (if needed) and \$150,000 of in-house services to cover the construction management and inspection during the construction phase. City Fire Department Levy funds will cover the cost to install emergency vehicle preemption equipment at each intersection, which is estimated at \$385,000.

Fund	Budget Year	Budget Appropriation
Capital Improvements – Traffic Signal System Upgrades	2018	\$255,272
Capital Improvements – Traffic Signal System Upgrades	2019	\$75,000
Capital Improvements – Traffic Signal System Upgrades	2020	\$20,000
Engineering Operations – In House Staff	2021	150,000
MORPC	2021	\$2,500,000
Fire Levy Funds	2021	\$385,000
Total		\$3,385,272

Project Updates

Final design work and right-of-way acquisition is under way. Design work and right-of-way acquisition will be completed by the end of 2020 and the project is scheduled for construction in July of 2021. You may submit specific questions regarding the project through the Access Delaware webpage. For weekly project updates and reports, visit the Access Delaware Facebook page.

For information regarding other local roadway improvement and transportation projects, visit

www.delawareohio.net/access-delaware