



Monthly Construction Project Status Report

Department of Engineering and Public Services

September 7, 2022

1. **2019-22 SUBSTANTIALLY COMPLETED BUT OPEN CONTRACTS:**

The following contracts are completed except for either paperwork or minor items, and will be closed out when the following are completed:

- Labor Park Improvements (2019 - E.R. Zeiler Excavating) - all work has been completed and waivers are needed so the contract can be closed out.
- 2019 Underground Utility Program (2019 - E.R. Zeiler Excavating) - all work is completed on the base contract and subsequent change orders, so the contract can be closed once we obtain final waivers and quantity concurrence from the contractor.
- Raisin Street Water Main Loop (2020 - Salenbien Trucking & Excavating) - the new water main is live, and some punch list items remain. This work is a part of the La-Z-Boy Infrastructure installation contract, so paperwork will be included with that project.
- 2021 Concrete Paving Program (2021 - E.R. Zeiler Excavating) - all work is completed except for joint sealing on Ternes Drive and Telb Street, so the contract can be closed out once this is completed, final paperwork is submitted, and quantity concurrence is obtained from the contractor.
- 2021 Water Main and Resurfacing Program (2021 - Salenbien Trucking & Excavating) - all work is completed except for some restoration touch-ups that still need to occur, and some sections of tracer wire that may need to be installed along Riverview to establish connectivity in the water main pipe.
- North Dixie Highway and East Elm Avenue Microsurfacing (2022 - Pavement Maintenance Systems, LLC) - this project was our 2021 Federal Aid project, but was carried over to this spring due to temperatures last fall. All work is now complete. As this project is administered through the Michigan Department of Transportation (MDOT), paperwork closeout can often take a considerable amount of time.

2. **WEST LORAIN STREET WATER MAIN REPLACEMENT - HUBER TO CSX RAILROAD:**

Replacement of the existing 12" water main through this corridor was planned for summer 2021, with this project area lying in properties owned by the City or within an easement in the areas where Lorain Street does not exist as a roadway, and work outside the rail right-of-way has already been completed. After repeated schedule requests, CSX arranged for flagging in March, and work commenced. Unfortunately, on the west side, rock was significantly lower at the initial bore pit than expected based on past projects, and the contractor will need to adjust their bore 7-8 feet lower, which will require a different boring machine and deeper trenching, neither of which could be undertaken, as different equipment could not be delivered to the site due to frost law load restrictions. As a result, the work had to be postponed yet again and we now must wait on another window of flagging from the railroad. The Engineering and Water Departments have reviewed both the costs to date and estimated costs to complete at the lower depth, and the City Council appropriated an additional \$100,000 from reserves to complete the work at the next available opportunity. We are again waiting on the next flagging window from CSX.

3. **INTERSTATE 75 INTERCHANGE STUDY:**

Consultant WPS and subconsultant OHM Advisors have been assisting the City with preliminary engineering and evaluation of alternative concepts for major improvements to and / or consolidation of Exits 13 (Front Street) and 14 (Elm Avenue) to facilitate safer and more functional access to I-75 by large trucks serving the industrial area and provide for better gateway access to downtown by visitors. The Economic and Community Development Director is leading the process on behalf of the City, but the Engineering Department is assisting with review of concepts and meeting with MDOT as well. MDOT personnel will be leading the Planning and Environmental Linkage (PEL) process, and the first meetings were held in February with the stake-holder teams. MDOT held a public meeting on June 8 at the Arthur Lesow Community Center and various City staff attended. The entire process is expected to be completed by the end of this year. Construction is tentatively planned for 2028.

4. **CITY HALL MODIFICATIONS - FIRST FLOOR:**

Most work has been completed, and the main entrance is now fully operational. A punch list remains, and will likely be addressed following the installation of ballistics glass at four (4) remaining counters, which is being held up by a long lead time. It is expected that the remaining glass will be installed within the next month.

5. **2021-22 PAVEMENT MARKING PROGRAM:**

The Engineering Department packaged a large-scale marking contract for 2021, which was awarded to JV Contracting of Goodrich. Based on a nationwide shortage of cold plastic material and seasonal limitations, the stop bars, crosswalks, etc. could not be completed in 2021, so they were carried into 2022. Most locations have now been completed, though we are reviewing the remaining locations and may add a few more within the existing contract. All work is expected to be completed this fall.

6. **ELEVATED TANK IMPROVEMENTS:**

Projects at the Roessler, Maybee, and Ida Elevated Tanks were bid together and the Water Department worked with Dixon Engineering and Jones & Henry Engineers to take the lead on project design and inspection, whereas the Engineering Department will manage the contract administration. The contract was awarded to Seven Brothers Painting of Shelby Township and all work has been completed at the Maybee and Ida tanks, with painting and mixer work complete at the Roessler tank. Material lead times are affecting piping replacement and electrical / mechanical changes, so the Contractor will need to return to the Roessler tower later this fall, likely October or November.

7. **CORRECTIVE ACTION PLAN / SANITARY SEWER LINING:**

The original project, which lined numerous sanitary sewers in the Stony Point subdivision in Frenchtown Township, was awarded to Insituform Technologies of Howell, and was completed in March 2021. Some additional locations were awarded as a change order by the City Council in May 2021 and some are completed, though the remaining five (5) locations are planned for this fall. An additional eight (8) locations were planned for 2022, and we are intending to award these via change order at the September 19 Council meeting for fall 2022 work.

The contract for the second phase of the work, lining of laterals in Stony Point, was awarded by the City Council on November 1, 2021 to BLD Services of Kenner, Louisiana, and they have completed all work, including assisting us with some additional service work within the City. We may keep the contract open for a while longer, as we have identified a few other possible locations where they may be of assistance, including along the sanitary trunk main in Mason Run Drain where Insituform will be lining the mains later this fall.

8. **SAINT MARY'S GARDENS SUBDIVISION STORM SEWER UPGRADES:**

This project was identified as a major long-term need due to a storm sewer system that is undersized in some areas and completely lacking on some streets in the area. The Wastewater Department has also entered into an agreement with Fishbeck Engineers for additional monitoring, evaluation, and inspection of this subarea with respect to the collection system. The Fishbeck contract also includes identification of homes with clear water discharges to the sanitary sewer. Fishbeck smoke tested this area in December 2019, is continuing residential surveys and home inspections, and still needs access to a number of homes. They have also completed all home inspections, and coordination to address cross connections will be undertaken in conjunction with the storm sewer project. Storm sewer design is based on the 10-year, 24-hour storm event (updated for present larger storm events) and includes a pump station to allow for proper pipe depth and grades. This project also includes the complete reconstruction of numerous streets in the area (Roessler, Lavender, McCormick, John L, and Calgary).

Bids were opened on August 22, and the City Council awarded the contract to E.R. Zeiler of Temperance at their September 6 meeting, along with a contract with the Spicer Group to perform construction engineering, as they also designed the project. Due to material (particularly pumps and electrical equipment) lead times, actual construction will likely occur almost entirely in 2023, though the contractor is free to commence earlier on certain items, such as excavation for the pump station wet wells. We will likely schedule some public informational meetings later this fall to discuss the project in detail with the affected residents, and begin preparations for proper connection of any clear water pipes to the new system once it is constructed. The completion date is September 30, 2023.

9. **2021-22 SIDEWALK REPLACEMENT PROGRAM:**

Last year's contractor, GV Cement of Brownstown Township, has completed all work within the 2021 program area (south of the River, west of Harrison Street). We also included additional work with the contract, including replacement of the ramp from Monroe Street to the Elm Avenue parking lot and a new sidewalk on Jerome and Eighth Streets, and this was completed this past spring, as were a large number of "spot" concrete areas, including scattered sidewalk complaints and utility patches. As GV Cement agreed to hold their pricing steady from last year, City Council extended the contract to include our 2022 work. This year's sidewalk replacement program is the area south of the River Raisin, between Harrison and Scott Street / LaPlaisance Road. We also omitted some streets within the program area where utility work is planned for 2023, including Washington Street and portions of Fifth and Seventh Streets. They are likely to start in late September or early October. We are also considering recommending City Council include some additional work on the River Raisin Heritage Trail and Bentley Drive that has come to our attention, and this recommendation may be brought forth at the September 19 meeting.

10. **2018-22 BITUMINOUS PAVEMENT MAINTENANCE PROGRAM:**

The 2018 contract for crack sealing and spray patching was publicly bid, and Highway Maintenance and Construction of Romulus was the low bidder. They have agreed to hold their original (2018) unit prices firm again for spray patching and crack sealing, so the City Council awarded a contract for extension of these activities as well as up to \$40,000 in asphalt patches at the June 20 meeting. Since subcontractor Bowen Paving did not perform any asphalt patching work on utility breaks and a few other locations in 2021, we were waiting on current pricing from them before proceeding with the work. As there are few asphalt patching options available, we typically run our scattered locations through this contract for maximum efficiency. Unfortunately, their pricing was extremely poor, so we will be switching as many patches as reasonable over to concrete. Work is likely to occur anytime between now and mid-November.

11. **FORMER LA-Z-BOY HEADQUARTERS REDEVELOPMENT:**

The City acquired the overall property including the former headquarters of La-Z-Boy Chair Company on Telegraph Road, and the Engineering Department has been managing the demolition of the buildings and infrastructure for the redevelopment of the site. Design and construction management of site infrastructure is being performed by the Mannik and Smith Group of Frenchtown Township, and MKSK Studios of Detroit has prepared the Planned Unit Development (PUD) design guidelines will be monitoring compliance of the private development pieces with these documents, and will be providing design assistance on landscaping and other aesthetic designs and site features. There are now multiple infrastructure contracts in various stages of design and completion as follows:

- Phase 1 infrastructure - awarded in 2020, includes the first 500 feet of Holiday Drive, new right turn lane on Telegraph Road, and associated storm and sanitary sewer relocation work. This was awarded to Salenbien Trucking and Excavating, and the majority of work is completed. The turn lane and approach to Telegraph could not be completed until signal relocation was completed, and is now underway and expected to be completed in the next 3-4 weeks.
- Traffic signal modifications - awarded to Rauhorn Electric of Bruce Township, Michigan in February 2021, and is now completed and operational as of July 2022.
- Mason Run Drain Daylighting - awarded to Lasershot of Deerfield through a contract with the Drain Commissioner's Office. This work is now completed as of July 2022.
- Phase 2 infrastructure - includes construction of Huber Drive between its current end and Greenfield Avenue, retention pond, culvert crossing Mason Run Drain, the storm system for the rest of the site, and other related elements. The City Council awarded the contract to E.R. Zeiler Excavating of Temperance at their June 20 meeting. Work will likely span both 2022 and 2023 construction seasons, with the latter seeing the bulk of the work. Zeiler installed a sanitary sewer extension in August to serve a new multi-unit commercial building, and only mandrel testing of the line remains, which will occur this month.
- Boiler House / Silo demolition - these were excluded from the previous contract to explore reuse, and a separate contract was awarded with Homrich of Carleton. Work was completed in August, and all site buildings have now been demolished.
- Private Development - work is underway on the Dairy Queen along Telegraph south of Greenfield, and a 3-unit commercial building south of Mason Run Drain along Telegraph. Both of these are expected to be completed this fall.

12. **CAIRNS PARK REDEVELOPMENT:**

Russell Design of Northville is our lead design firm for the wholesale redevelopment of Cairns Park in conformance with the Recreation Master Plan. The Engineering Department is assisting with utility information and mapping, coordination of the consultant design process, and will administer the construction contracts with technical assistance from Russell and AEW Engineers, whereas the Economic and Community Development Department is assisting with the design of the various site features. We have also approached the Monroe County Road Commission about a possible jurisdictional transfer of South Roessler Street adjacent to the project for design and permitting advantages, and they are receptive to this, so a formal request has been forwarded to their office for action. We are working with DTE to place overhead lines that currently cross over the play area underground instead and on selecting acceptable light fixtures. Plans and specifications are nearing completion, and we are hoping to advertise the project for bids in the next two (2) weeks, with a proposed opening date of October 24 and City Council award of November 7. The City will be purchasing play equipment, a shelter structure, and splash pad unit directly from the suppliers, so these agreements will require approval as well. It is likely that work will be occurring throughout most of 2023, and due to bid award timing, no work is expected in 2022.

13. **2022 CONCRETE PAVING PROGRAM:**

This contract was awarded to GV Cement Contracting of Brownstown Township, and included fourteen locations throughout the City. Work was completed over six (6) weeks ahead of schedule. A few punch list items remain, including some minor drainage concerns in two (2) locations, and the contractor is expected to address these by the end of the fall.

14. **DUMPSTER ENCLOSURES:**

The Engineering Department will be the lead party in consultation with the Downtown Development Authority (DDA) and City Manager's office in programming for enclosures for common dumpsters in the Riverfront Parking Lot. Russell Design of Northville is our architect and has completed plans and specifications. GV Cement is willing to complete the concrete work as a change order to their concrete paving contract, so we have asked them to quote the concrete and masonry work, but this has not yet been received. If they are unable to complete the work this fall, it is likely the project will have to be bid for spring 2023 construction due to contractor availability. The landscaping will likely be omitted from the bid and awarded separately.

15. **MARTIN LUTHER KING JR. MEMORIAL FOOTBRIDGE IMPROVEMENTS:**

Following a scoping meeting with the Engineering Department, Fishbeck Engineers of Novi developed a proposal to provide options for rehabilitation or replacement of several elements on the bridge. These include repair of the south side steps, replacement of the chain link fence, lighting options (both passive and active), repainting of the entire bridge, and other relevant items. A design contract was awarded at the July 5 City Council meeting, and the Engineering Department will be heading up the coordination process, including development of various concept-level options, public interface, and to begin to seek outside grant sources or trails millage monies for 2023 or 2024 construction, as this project does not yet have adequate funding through the Capital Improvements Program. A kick-off meeting was held with the consultant on August 1, and we are expecting to be presented with some conceptual lighting options later this month or in early October. It is likely that the entire St. Mary's Park will be surveyed as well by Fishbeck, as redesign of the bridge may spill over into the park due to the need to modify the approach ramp.

16. **RIVERVIEW AVENUE RESURFACING - MAYWOOD TO COLE:**

This project is our 2022 Federal Aid project, which will also commit our 2023 funds through the Advance Construct process. The work includes replacement of some blocks of curbs, and milling and resurfacing of the asphalt roadway from Maywood to Oakwood. North of Oakwood, there will be targeted reconstruction of the existing concrete pavement / curbs where conditions dictate. MDOT awarded the contract to Cadillac Asphalt, and their concrete subcontractor is Merlo Construction of Milford. Asphalt paving was completed September 2, and the concrete work on the north end is expected to continue through mid-September, with restoration and reconnection of downspout runs through the curb face to be completed by the September 30 completion date.

17. **AIRPORT TAXIWAY REHABILITATION:**

The City receives an allocation of \$150,000 each year for airport capital improvements, which can be banked for up to four (4) years for use. The next project, originally planned for 2023 construction, is the rehabilitation of the primary parallel taxiway, which was originally constructed in 2002. Design was expected to begin this year, however, the Federal Aviation Administration (FAA) is imposing new project selection requirements on MDOT, and there already appear to be substantial delays in implementing planned projects. Our standing consulting firm, C & S Companies of Livonia, will be preparing the project justification and design on our behalf throughout this fall. At this point it is possible the project could occur either in 2023 or 2024.

18. **NORTH CUSTER ROAD PEDESTRIAN IMPROVEMENTS:**
The 2021-22 CIP included funds for additional pedestrian enhancements of the North Custer Road corridor, including additional signage, and possibly signalization. Due to time constraints, the Engineering Department did not begin work on this project in 2021, but intends to begin review of options this year. Some options for solar-powered actuators that cause warning signs to be lit up when pedestrians are in the vicinity are being strongly considered first, as the full deployment of HAWK pedestrian signals will involve extensive costs and lead times.
19. **DOWNTOWN GEOMETRIC MODIFICATIONS:**
Within the 2022-23 CIP, funding has been proposed to review and model various geometric changes within the Central Business District. These include, but are not limited to, necessary physical changes to facilitate conversion of Front, First, Cass, and Washington Streets to two-way traffic, and a potential roundabout at the intersection of Front and First Streets. The City will be engaging a consultant to review potential options, and the Engineering Department will likely coordinate the consultant's work and oversee any future projects. A formal schedule has not yet been set, but consulting work will likely commence later this year, with construction occurring in 2023 or later.
20. **STORM SEWER SEPARATION - CASS STREET - SEVENTH TO SIXTH:**
The Wastewater Department has identified a section of their sanitary sewer that is receiving clear water runoff from some catch basins on this block, so a storm sewer must be extended on this block to connect these basins. Since this work is required by our Corrective Action Plan, the Engineering Department will work with E.R. Zeiler Excavating for pricing to perform this work as soon as they are available, though it may not occur until spring 2023 when they mobilize for either the La-Z-Boy Phase 2 or Saint Mary's Gardens projects.
21. **NEW POLICE STATION:**
City Administration has been reviewing the need for a replacement for the City Police Station for a few years, and this was also originally considered in the construction of Fire Station #1 on East Third Street. During 2020 and 2021, alternate sites were reviewed for effectiveness and costs as properties became available for sale, and the Fire Station #1 site is now the proposed site, based on several advantages. Administration has been moving forward with development of a building layout and cost estimates, the Engineering Department will be coordinating the overall process, and the Public Safety Director will be leading the review of the spatial layout and programming elements of the facility. During 2022, Redstone Architects and Auch Construction, the architect and construction manager on the previous fire station project, prepared schematic layouts and cost estimates, and a staff / Council steering committee has met every two (2) weeks to guide the process. At the August 1 meeting, the City Council voted to place a dedicated millage on the November 8 ballot. If the millage request is successful, site work would likely begin in summer 2023, with building work beginning shortly thereafter.
22. **RAIL GRADE SEPARATION FEASIBILITY STUDY:**
City Council approved a proposal at the July 5 meeting from the Mannik and Smith Group in partnership with Quandel Consultants to perform a comprehensive study of the west side rail crossings and Elm and Front, to determine feasibility and costs of a possible grade separation. Their work efforts are designed to potentially take advantage of newly-available targeted Federal monies. The Engineering Department will coordinate the process as needed, and the next presentation from the consultants is scheduled for the September 19 Council meeting. |

23. **EAST WILLOW STREET WATER MAIN AND PAVING:**

Reconstruction of East Willow Street between Monroe and Tremont and replacement of the water main between Monroe and Macomb were funded as a part of the 2022-23 CIP. The Engineering Department has been working on design with the hope of adding this work as a change order for 2022 construction. However, we have encountered significant design challenges, and additional funding is needed, both to resolve some of these, and to extend the paving limits east to Macomb to match the water main replacement. At this point, we intend to complete design and postpone this project to request additional funding for 2023 construction. The roadway will be reconstructed in concrete and the portion between Monroe and Tremont will be narrowed from 32 feet to 26 feet wide.

24. **EAST FIRST STREET WATER MAIN AND PAVING:**

Reconstruction of East First Street and replacement of the water main between Washington and Macomb were funded as a part of the 2022-23 CIP. However, given the large number of projects in and around City Hall in 2022, this project was deliberately postponed until 2023. A decision will need to be made as far as materials to replace the existing brick pavers in Loranger Square as well, since it is unlikely most of the existing brick will survive being removed and reset given their age. Topographic survey work is still needed before design can begin, but this has been requested. Replacement of the sidewalks on both sides of the roadway, along with all of Loranger Square, is likely to be included in the project scope.

25. **2023 UNDERGROUND UTILITY AND PAVING PROGRAM:**

As a result of significant advanced planning by the Engineering Department the last two (2) years, design activities are well underway on much of our 2023 underground utility and paving program for 2023. Based on discussion of upcoming projects at a City Council work session on August 29, the following projects are expected to comprise this program. We are hoping to bid this work by the end of the year to ensure contractor availability. The individual projects and status are as follows:

- Location A: Washington Street - Eighth to Third - water main replacement from Seventh to Fourth, and reconstruction of the entire roadway and some curbs in new concrete pavement. Design is underway.
- Location B: East Seventh Street - Monroe to Washington - water main replacement and reconstruction of roadway and all curbs in concrete - design is underway.
- Location C: East Fifth Street - Monroe to Scott - roadway reconstruction only, some curb replacement - design is underway.
- Location D: East Willow Street - Monroe to Macomb - water main replacement, reconstruction of roadway and all curbs in concrete, plus storm sewer changes - design is nearing completion.
- Location E: East First Street - Washington to Macomb - water main replacement, reconstruction of roadway and all curbs in concrete. Design to begin in October or November, may be included in base contract or added as change order later, depending on length of design time.
- Location F: Arbor Avenue - Linwood to Orchard - water main replacement, reconstruction of roadway and all curbs in concrete. Design will commence this month.
- Location G: West Fifth Street - Smith to Monroe - water main replacement, reconstruction of roadway and all curbs in concrete. We are also investigating installing a new public sanitary sewer to replace existing private lines. Design will commence this month, and if Special Assessments are considered, this project may need to be added as a change order if the process lasts beyond the end of the year.

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