

City of Flint

Service Line Replacement Plan

The following is the process that the City, its program manager and contractor are to follow as close as possible as an attempt to complete all remaining service line excavations and replacements for the residential properties in the City of Flint water system.

- The City and/or the program manager will continue to update the Cityworks work orders for all known properties where exploration or excavation has not been documented.
- The program manager will use existing and current data to develop the list of eligible homes to place in the work order system.
- Eligible homes must have an active residential water account and not have service line material previously identified.
- As the city, program manager and/or the contractor receives consent forms from a residential property, the program manager will review all necessary data to determine if they are an eligible home. If so, a work order will be created if there is not one already in the system.
- Once the work order is created, the contractor will be responsible for contacting the property owner to schedule the work.
- For those homes where all data indicates that no work has been performed to identify the service line material and a consent form has not been obtained, the contractor will perform the necessary outreach attempts to try and secure a consent form which will then allow for them to schedule the work.
- The process of obtaining consent forms, verifying eligibility and scheduling the work will continue until all eligible homes are completed or documented why the work was not completed.

The following are items that were specifically required to be addressed in this plan:

Through coordination with several agencies, the contractor has indicated that they have secured adequate materials for completing the anticipated service line explorations and replacements. At this time, no further materials orders are being placed. The contractor will monitor the supply that they have on hand and if necessary, inform all parties that additional material orders will be placed. All indication from the contractor doing the work is that they have adequate material to complete what is anticipated to be the work remaining. Therefore there is no current need to order more material. However, we have been discussing material supply at each progress meeting and if it appears that a new supply will be required, we will work with the contractor, State Agencies and other groups that helped coordinate the initial order of material to determine how to obtain more supply. All contractors are in the same situation if material shortages continue in 2023 and will purchase material if necessary and when it becomes available.

The contractor has continuously indicated that they have the resources to maintain and increase, if necessary, the number of crews working on this project. Each crew can complete 2-4 excavations/replacements per day and over a five-day work week, which would total 10-20 excavations/replacements per crew. At each week's progress meeting, there is a discussion item to discuss the number of crews currently working in the field. The contractor has indicated that they have the ability to have up to six crews working at one time if the work is there to financially support that level of effort.

The City, program manager and contractor continuously monitor the weather conditions to verify that any day that work is being performed, safety of the workers is at the forefront. Additionally, with the continuous monitoring of weather (specifically during the winter months) the contractor will modify their proposed schedule to not impact the operations of the city's crews to remove snow and ice from the road surfaces. The following is a list of specific weather conditions that are monitored which may impact the work of the field crews:

- Heavy Rain

- Thunder and Lightening

- Fog

Snow, Sleet, Ice

Cold temperatures that would impact both the workers and equipment

Extreme hot temperatures that would impact the safety of the workers

If these conditions are identified, work will be halted until such time that the weather conditions improve, and the safety of all workers are no longer a concern. Any work scheduled during stoppage in work will be rescheduled as their earliest convenience of all parties.

The excavation, (underground) and replacement work did not stop during the winter months. The progress was slowed as colder and freezing weather/ice/snow affected the equipment, backfill material, snow plowing and removal by the COF and the safety of the workers. But this component of the work never stopped other than for days when the winter conditions were not conducive to allow for safe work zones. The Michigan Department of Transportation normally suspends all work from November 15 through April 14 of the following year due to the freezing of the materials and the safety of the workforce. The contractor worked during these months as the weather allowed the work to continue.

Each residential property where all data indicates work still needs to be completed will receive the necessary outreach attempts to secure a consent form and once secured attempts will be made to schedule the work. In person door knocking, phone calls and door hangers are all being utilized as methods for completing the work. If the resident is nonresponsive to all these attempts, the data is documented in Cityworks for record keeping. Public outreach activities will be conducted through the City of Flint's Office of Public Health. The contractor is tracking all attempts to secure a consent form, schedule the work, and if it happens, document when a homeowner is not present on the day the work was scheduled. All this documentation will be available to confirm that the proper contacts have been made.

There are still residential properties that need to have work performed that reside on major streets. These streets can either be maintained by the City of Flint or the Michigan Department of Transportation. For those properties that front City of Flint maintained streets, there is no specific permit necessary to complete the work. However, the contractor is required to develop a traffic control plan that is approved by the City's Transportation Department a minimum of three days prior to the proposed land closure or detour. Properties that have frontage on MDOT maintained roads, will need a traffic control plan developed by the program manager and submitted to MDOT for approval prior to any work being performed. Work on the City's major streets has continued over the winter months with temporary pavement restoration (cold patch) being placed with the understanding that permanent restoration will occur at a later date. Work on the MDOT maintained roads has been suspended until a later date when permanent restoration (HMA or Concrete) surface can be placed shortly after the excavation. The contractor is attempting to schedule the work on the major roads in such a way that will minimize the impact to the traffic closures/detours. The schedule for work on major roads will resume once the asphalt and concrete plants are back in operation in the spring (typically late April/Early May) and can allow for the permanent road restoration to occur shortly after the excavation / replacement was performed. The work on the major streets will also be completed by the August 1, 2023 deadline to comply with the date in the order. Major roads carry greater volume of traffic which require more complex and longer lane closures. These closures require longer set up times and removal of traffic control (arrow boards, signs and barrels) when eminent winter storms were in the forecast.

The City has retained the services of a third-party archaeologist to perform the necessary observations for work within the SHPO zone. The contractor will coordinate the work in this zone with the archaeologist to verify that all parties will be on site when work is being performed to document all necessary findings. There is no specific permit that is required to work in the SHPO zone. The only requirement is for a certified archaeologist be present when work is being performed within the SHPO Zone to document what is disturbed and or encountered. The city has retained the services of a third party archaeologist to perform this work.

The contractor continues to perform outreach to those properties that have not yet received the required number of attempts. Documentation of these outreach attempts is being recorded in the Cityworks software.