



CITY OF  
EAST GRAND RAPIDS

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DOUG LAFAVE  
ASSISTANT CITY MANAGER

**MEMORANDUM**

TO: Honorable Mayor and City Commissioners  
FROM: Doug La Fave, Assistant City Manager  
DATE: 2/8/2021

RE: Manhole/catch basin rehabilitation program

Action Requested: That the City Commission consider approval of a contract for sanitary sewer manhole and catch basin rehabilitation with Advanced Rehabilitation Technology (ART) of Bryan, OH at \$225 per lineal foot within authorized fiscal year budgets estimated at \$70,800 for 2021 with a renewal option for 2022.

Background: As part of the sanitary sewer manhole rehabilitation program and as a component of the City infrastructure asset management strategy, the City utilizes an inspection program to prioritize rehabilitation of sanitary sewer as well as storm sewer catch basins. It is most cost effective and less disruptive when rehabilitation takes place in advance of a structure failure and before street construction. Cured-in-place and other polyurea system products allow for creating a new solid-one piece structure within an old structure that is constructed of hundreds of independent bricks with mortar. This type of application rehabilitates and repairs structures and prevents leaks and ground water intrusion (otherwise known as infiltration and inflow) via a three-layer flexible polymer process. At the surface this prevents sink holes around structures and helps reduce the need to rebuild “chimney” portions of structures during road construction which can be costly and add more time to road construction projects. This process takes several hours depending on the application and condition/size of the structure and requires no excavation or disruption to the surrounding area.

Ada Township currently has a contract in place that is approximately \$70,000 with ART through Insituform at \$225 per vertical foot. ART has agreed to extend this contract pricing to the City of East Grand Rapids for budgeted amounts for 2021 and 2022. In 2019 the City had a contract through Kent County Public Works at \$235 per vertical foot for this form of structure rehabilitation. With a similar quantity of work for this unique form of infrastructure rehabilitation the Ada Township contract pricing is most beneficial to the City of East Grand Rapids.

As part of the manhole casting and rehabilitation budget castings are purchased via the City of Grand Rapids East Jordan Iron Works contract with additional funds programmed in major and local streets for structural rehabilitation primarily in advance of spring and summer road construction project areas. The current fiscal year major and local street fund budgets each have \$100,000 programmed for manhole casting and rehabilitation. As noted in the action requested, structures planned for 2021 are estimated to be completed at \$70,800.

Below are a few before and after photos of this three-layer flexible polymer process as well as a photo of casting replacement in East Grand Rapids.



This has been reviewed by the Infrastructure Committee and determined to be in order.

**REVIEWED & APPROVED FOR SUBMISSION:**

Shea Charles  
City Manager