



CITY OF NOVI CITY COUNCIL
NOVEMBER 17, 2025

SUBJECT: Approval of the final payment to LGC Global, Inc. for the Novi Road/13 Mile Road PCCP Water Main Repair project, in the amount of \$87,101.82, plus interest earned on retainage.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division

KEY HIGHLIGHTS:

- Structurally lined approximately 600-feet of 36-inch PCCP.
- Change Order No. 1 approved (June 26, 2023) to install 100 feet of 8-inch water main to service Wexford Townhomes.
- Installed a new 8-foot x 10-foot vault for a Pipe Diver insertion point.
- Change Order No. 6 approved (November 12, 2024) to replace a 30-inch Butterfly valve at Old Novi Road and 13 Mile Road.

FINANCIAL IMPACT

	FY 2025/26
EXPENDITURE REQUIRED	\$ 87,101.82 (Retainage)
BUDGET	
Water & Sewer Fund 592-000.00-211.195	\$ 87,101.82
APPROPRIATION REQUIRED	\$0
FUND BALANCE IMPACT	\$0

BACKGROUND INFORMATION:

In 2019, staff inspected a portion of the City's 36-inch prestressed concrete cylinder pipe (PCCP) water transmission main using a Pipe Diver inspection tool. The Pipe Diver (a robotic data collection device inserted into the water main) identified and ranked structural deficiencies in four pipe segments. The PCCP material fails catastrophically, like the 2017 and recent 2025 Great Lakes Water Authority (GLWA) pipe failure on 14 Mile Road and would significantly affect the water supply to the majority of the City.

Several options were considered to address the defects, including lining options, concrete encasement, and removal and replacement. Ultimately, it was determined that Carbon Fiber Reinforced Polymer (CFRP) lining would be the best option given the success GLWA has recently had on their critical mains in 14 Mile Road. CFRP is a carbon fiber wrap installed by hand inside the pipe and requires less excavation and surface disruption. The pipe can be accessed by existing manholes, eliminating the need to expose the pipe, however, excavation would still be required to install temporary line stop valves to perform the lining.

Following the award of the construction contract, City staff recognized the opportunity for an additional improvement involving the installation of approximately 100-feet of 8-inch ductile iron water main across 13 Mile Road to provide additional redundancy to the Wexford Townhomes community to avoid the need to shut off water service to these residents for future repairs. A change order in the amount of \$123,919.21 was approved by City Council on June 26, 2023, for this work.

To take advantage of having a qualified contractor on-hand and in the area, City staff requested the contractor install an insertion vault for the Pipe Diver robotic tool at Novi Road, just north of 12 ½ Mile Road to perform additional collection data on a portion of transmission main not previously sampled.

Finally, City Council approved Change Order No. 6 in the amount of \$309,717.00 to completely replace the existing 30-inch Butterfly valve and manhole/vault at the intersection of Old Novi Road/13 Mile Road/South Lake Drive which had been deemed an imminent failure.

The initial construction contract was awarded at the March 6, 2023, City Council meeting to LGC Global, Inc., in the amount of \$1,236,231.00. Staff worked with the engineering consultant for this project, AECOM-Great Lakes, to review and verify the final contract amount of \$87,101.82 that is due to the contractor. The City Attorney reviewed the final documentation and found it to be in an acceptable form (Beth Saarela, October 15, 2025).

There were seven (7) approved change orders issued resulting in an overall increase of \$505,785.31 to the contract. The approved change orders resulted in a final contract price of \$1,742,036.31.

RECOMMENDED ACTION: Approval of the final payment to LGC Global, Inc. for the Novi Road/13 Mile Road PCCP Water Main Repair project, in the amount of \$87,101.82, plus interest earned on retainage.