



CITY OF NOVI CITY COUNCIL
JULY 26, 2021

SUBJECT: Consideration of Approval of Change Order No. 6 to Florence Cement Company for the Cranbrooke Road Reconstruction, 9 Mile Road to Village Wood Road, asbestos-cement water main replacement in the amount of \$167,343, and amend the budget.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 167,343
AMOUNT BUDGETED	\$ 0
APPROPRIATION REQUIRED	\$ 223,695
LINE ITEM NUMBER	592-592.00-976.117

BACKGROUND INFORMATION:

The City's 2021 Water System Master Plan recommends replacing approximately 30 miles of asbestos-cement (AC) water main that exists throughout the city. AC water main was installed up until the early 1980s and is now reaching the end of its lifecycle. Although the use of AC water main is not considered to be a health concern, it's considered good practice to eliminate AC pipe from water main networks when practical. AC pipe was commonly used starting in the 1940s due to its corrosion resistance and lightweight construction, but the material is brittle and not sized to standard outside dimensions. This makes AC pipe difficult to repair and connect to contemporary pipe materials, in both water system expansion projects and emergency repairs.

It was noted during the development of an asset management plan for replacement of AC main in the City that three sections of AC water main cross Cranbrooke Road where road reconstruction is planned this summer, between 9 Mile Road and Village Wood Road. Therefore, staff recommends the AC water main within the influence of the road be replaced with ductile iron pipe as part of the road reconstruction project.

City consultant AECOM provided a design for the AC water main replacement and obtained unit prices from the contractor, Florence Cement Company, for a change order to their original contract for the water main. Reconstruction of Cranbrooke Road between 9 Mile Road and Village Wood Road began on July 6. Replacement of the water main will begin upon approval of the change order by City Council.

The contract administration and geotechnical engineering services related to this project change order will be granted to the following pre-qualified firms using the fee percentages in the Agreements for Professional Engineering Services and Geotechnical Engineering Services for Public Projects.

AECOM			
Cranbrooke Road Sidewalk	Contract Administration	5.5% of the construction contract (\$167,343 x 5.5%)	\$ 9,203.87
	Crew Days	\$700 daily inspection fee x 15 days	\$ 10,500.00
Testing Engineers & Consultants, Inc. (TEC)			
Cranbrooke Road Sidewalk	Material testing services	1.9% of the construction contract (\$128,075 x 1.9%)	\$ 3,179.52

RECOMMENDED ACTION: Approval of Change Order No. 6 to Florence Cement Company for the Cranbrooke Road Reconstruction, 9 Mile Road to Village Wood Road, asbestos-cement water main replacement in the amount of \$167,343, and amend the budget.

RESOLUTION

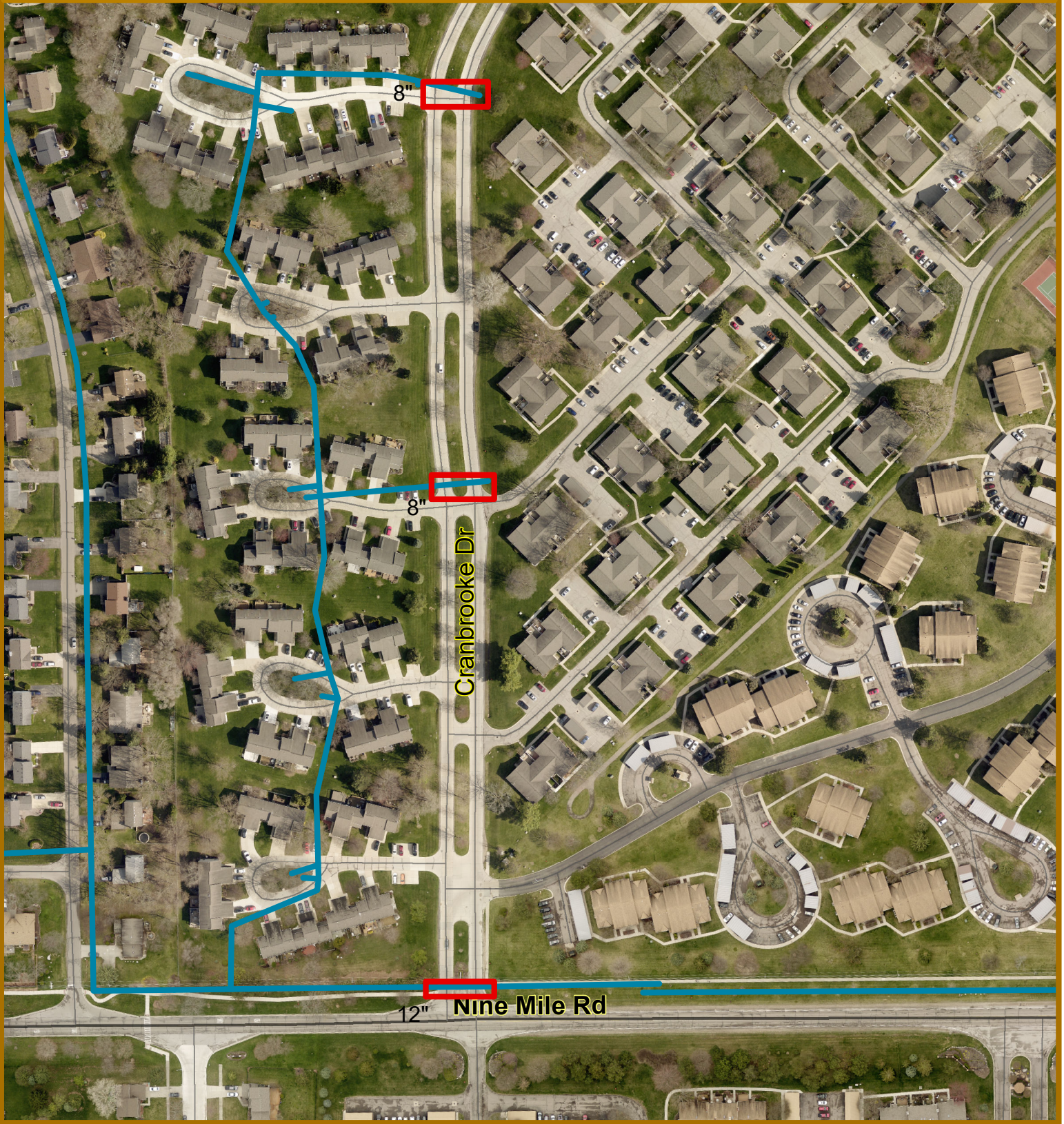
NOW, THEREFORE BE IT RESOLVED that the following
Budget Amendment for change order No. 6 to
Florence Cement Company for construction associated with
the asbestos-cement water main replacement along Cranbrooke Road
from 9 Mile Road to Village Wood Road is authorized:

	INCREASE (DECREASE)
WATER & SEWER FUND	
APPROPRIATIONS	
Capital Outlay	223,695
TOTAL APPROPRIATIONS	<u>\$ 223,695</u>
Net Increase (Decrease) to Fund Balance	<u><u>\$ (223,695)</u></u>

I hereby certify that the foregoing is a true and complete copy of a
resolution adopted by the City Council of the City of Novi
at a regular meeting held on July 26, 2021.

Cortney Hanson
City Clerk

Cranbrooke Drive AC Water Main Replacement Location Map




Map Author: Rebecca Runkel
 Date: 6-23-21
 Project: Cranbrooke Rd 9 MI to VW
 Version #: 1.0

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

Legend

WaterMain
Material

 Asbestos Cement

 Water Main Replacement

			04	03	02	01
			09	10	11	12
18	17	16	15	14	13	12
19	20	21	22	23	24	25
30	29	28	27	26	25	24
31	32	33	34	35	36	37



City of Novi
 Engineering Division
 Department of Public Works
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 Novi, MI 48375
 cityofnovi.org

0 35 70 140 210
 Feet
 1 inch = 198 feet



