



**CITY OF NOVI CITY COUNCIL
APRIL 12, 2021**

SUBJECT: Consideration of approval of Change Order No. 4 to Florence Cement Company for Cranbrooke Drive Reconstruction, 9 Mile Road to Village Wood Road, in the amount of \$1,662,156.07.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 1,662,156.07
AMOUNT BUDGETED	\$ 2,191,460.00 (FY 2021-22) Road Reconstruction \$ 283,580.00 (FY2021-22) Drainage Improvements \$ 2,475,040.00 Total
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	203-203.00-865.186 Road Reconstruction 210-211.00-865.186 Drainage Improvements

BACKGROUND INFORMATION: Cranbrooke Drive was identified in recent years as a candidate for reconstruction due to its deteriorated condition. Reconstruction of Cranbrooke Drive began in July 2020 from 10 Mile Road to Village Wood Road. AECOM has been assisting the Engineering Division with engineering design and administration of the construction contract with the low bidder, Florence Cement Company. Design of Cranbrooke Drive from 9 Mile Road to Village Wood Road is nearly complete, and construction of this segment is expected to occur after July 1, 2021.

Due to the success the City has seen with Florence Cement Company on the 10 Mile Road to Village Wood Road segment, and in order to secure low unit prices, the Engineering Division is requesting a Change Order for continuation of the Cranbrooke Drive Reconstruction project with Florence Cement Company. Construction would not begin until the start of the new fiscal year in July 2021. Attached is a signed Work Change Directive and Change Order No. 4 authorizing the contractor to work on the Cranbrooke Drive Reconstruction, 9 Mile Road to Village Wood Road, starting July 1, 2021.

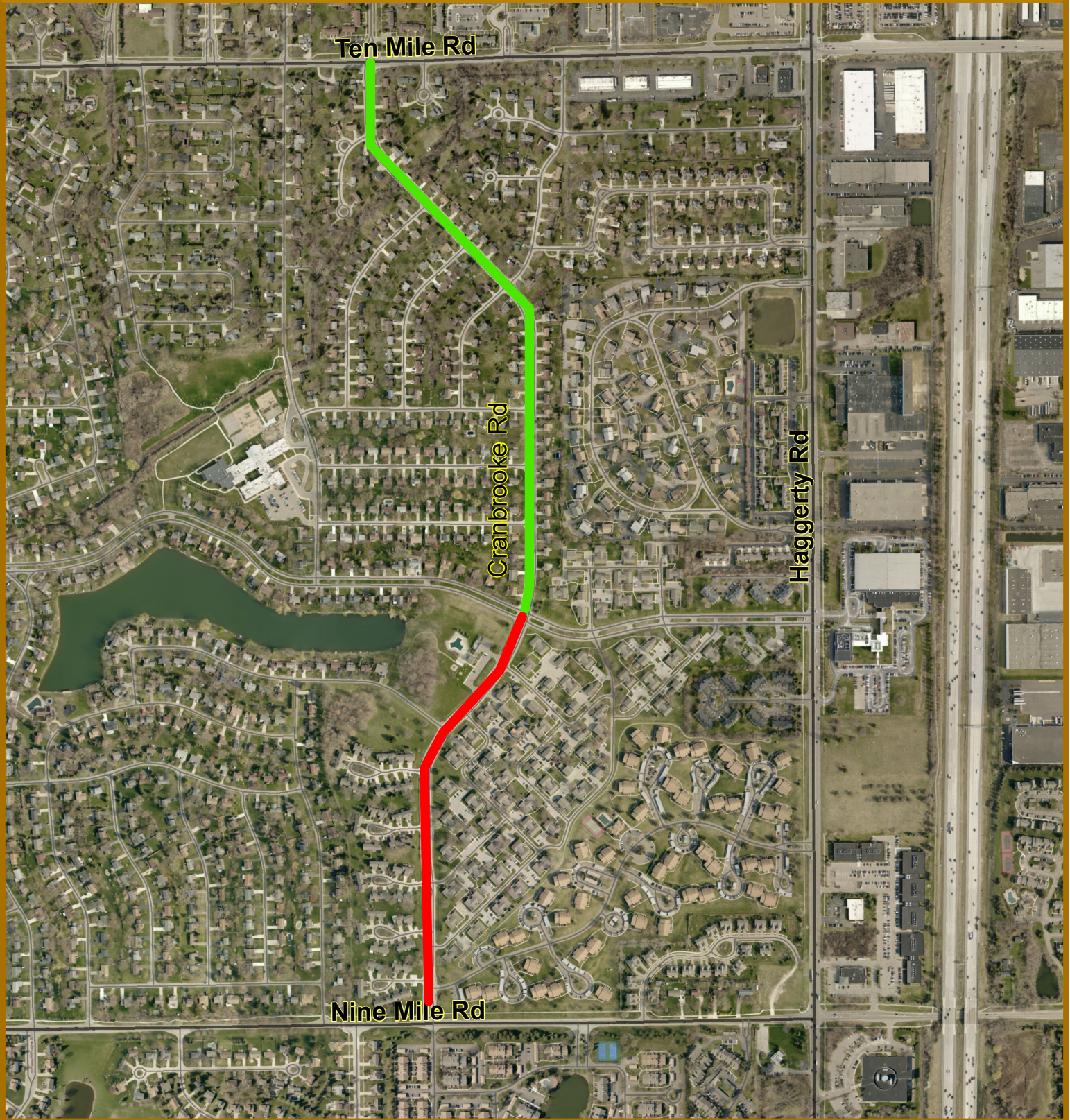
The contract administration and geotechnical engineering services related to this project will be awarded to the following pre-qualified firms using the fee percentages in the

Agreements for Professional Engineering Services and Geotechnical Engineering Services for Public Projects.

AECOM Great Lakes			
Roadway	Contract Administration	5.5% of the construction award (\$1,441,543.57 X 0.055)	\$ 79,284.90
	Crew Days	\$700 daily inspection fee x 87 days	\$ 60,900.00
Drainage	Contract Administration	5.5% of the construction award (\$220,612.50 X 0.055)	\$ 12,133.69
	Crew Days	\$700 daily inspection fee x 28 days	\$ 19,600.00
Testing Engineers & Consultants, Inc. (TEC)			
Roadway	Material testing services	1.9% of the construction award (\$1,441,543.57 X 0.019)	\$ 27,389.33
Drainage	Material testing services	1.9% of the construction award (\$220,612.50 X 0.019)	\$ 4,191.64

RECOMMENDED ACTION: Consideration of approval of Change Order No. 4 to Florence Cement Company for Cranbrooke Drive Reconstruction, 9 Mile Road to Village Wood Road, in the amount of \$1,662,156.07.

Cranbrooke Road Reconstruction Location Map



Map Author: Rebecca Runkel
 Date: 2-23-21
 Project: Cranbrooke Rd Recon
 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.

 Reconstruction Completed 2020

 Reconstruction Proposed 2021

				04	03	02	01
				09	10	11	12
18	17	16	15	14	13	12	11
19	20	21	22	23	24	25	26
30	29	28	27	26	25	24	23
31	32	33	34	35	36	37	38



City of Novi
 Engineering Division
 Department of Public Works
 26300 Lee BeGole Drive
 Novi, MI 48375
cityofnovi.org

0 130 260 520 780
 Feet

1 inch = 727 feet





WORK CHANGE DIRECTIVE & CHANGE ORDER No. 4

PURCHASE ORDER NO.
96256

NOVI NO.: 20-2301
CIP NO.: ENG056

Project: Cranbrooke Dr Recon (10 to V. W.)

Owner: City of Novi
26300 Lee BeGole Dr.
Novi, Michigan 48375
(248) 735-5632

Engineer: AECOM-Great Lakes
27777 Franklin Road, Suite 2000
Southfield, Michigan 48034
(248) 204-5900

Contractor: Florence Cement Company
51515 Corridor
Shelby Twp., Michigan 48315
(586) 997-2666

This document hereby renders changes in the Work, changes in the Contract Time and changes in the Contract Price by adding, deducting and/or balancing individual Contract line items through a signed authorization of the Prime Contractor, Owner, and Engineer.

Drafted Date: March 30, 2021

Reasoning: This change order adds the work to this contract to perform reconstruction between 9 Mile Rd and Village Wood Rd.
Escalation costs were reviewed and are reasonable based on changes in costs from 2020 to 2021.

NEW CONTRACT ITEMS

Item No.	Division	Item Description	Unit	Unit Price	Quantity	Contract Price		
						Add	Deduct	
0	1	"Crew Days" - Roads	CD	\$700.00	87	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
0	2	"Crew Days" - Drains	CD	\$700.00	28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
0		"Crew Days" -	CD	\$700.00		<input type="checkbox"/>	<input type="checkbox"/>	
0		"Crew Days" -	CD	\$700.00		<input type="checkbox"/>	<input type="checkbox"/>	
0		"Crew Days" -	CD	\$700.00		<input type="checkbox"/>	<input type="checkbox"/>	
48	1	Mobilization (10%)	LSUM	\$133,000.00	1		\$133,000.00	
49	1	Pre-Construction Audio-Visual	LSUM	\$1,000.00	1		\$1,000.00	
50	1	Erosion Control, Silt Fence	Ft	\$2.00	4900		\$9,800.00	
51	1	Erosion Control, Inlet Protection, Fabric Drop	Ea	\$100.00	25		\$2,500.00	
52	1	Tree, Rem, 6 inch to 18 inch	Ea	\$750.00	3		\$2,250.00	
53	1	Curb and Gutter, Rem	Ft	\$20.00	113		\$2,260.00	
54	1	Pavt, Rem	Syd	\$6.50	12937		\$84,090.50	
55	1	Sidewalk, Rem	Syd	\$14.00	21		\$294.00	
56	1	Roadway Grading	Sta	\$7,000.00	22.9		\$160,300.00	
57	1	Subgrade Undercutting, Special (1x3)	Cyd	\$48.50	1000		\$48,500.00	
58	1	Sidewalk Ramp, Conc, 6 inch	Sft	\$10.00	225		\$2,250.00	
59	1	Detectable Warning Surface	Ft	\$40.00	15		\$600.00	
60	1	Aggregate Base, 21AA Limestone, 6 inch	Syd	\$8.00	13953		\$111,624.00	
61	1	Tensor TX5 Geogrid	Syd	\$3.50	13953		\$48,835.50	
62	1	Driveway, Nonreinf Conc, 6 inch	Syd	\$52.00	942		\$48,984.00	
63	1	Conc Pavt with Integral Curb, Nonreinf, 8 inch	Syd	\$48.85	11483		\$560,944.55	
64	1	Driveway, HMA Milling and Hand Patch	Syd	\$460.00	47		\$21,620.00	
65	1	Lane Tie, Epoxy Anchored	Ea	\$15.00	132		\$1,980.00	
66	1	Underdrain, Subgrade, Open-Graded, 6 inch	Ft	\$12.50	4570		\$57,125.00	
67	1	Underdrain Outlet, 6 inch	Ft	\$20.00	158		\$3,160.00	
68	1	Surface Restoration	Sta	\$1,000.00	23		\$23,000.00	
69	1	Hydrant, Adjust	Ea	\$1,000.00	3		\$3,000.00	
70	1	Maintaining Traffic	LSUM	\$10,000.00	1		\$10,000.00	
71	1	Permanent Pavement Markings	LSUM	\$3,500.00	1		\$3,500.00	
72	1	Permanent Signing	LSUM	\$2,500.00	1		\$2,500.00	
73	1	Escalation Costs	LSUM	\$94,326.02	1		\$94,326.02	
74	1	Pavement Gapping	Ft	\$41.00	100		\$4,100.00	
75	2	Sewer, Rem, 12 inch to 24 inch	Ft	\$15.00	318		\$4,770.00	
76	2	Culv, Rem, Less than 24 inch	Ea	\$1,000.00	7		\$7,000.00	
77	2	Dr Structure, 48 inch dia	Ea	\$2,300.00	25		\$57,500.00	
78	2	Dr Structure Cover, Type C	Ea	\$650.00	25		\$16,250.00	
79	2	Dr Structure, Add Depth of 48 inch dia, 8 foot to	Ft	\$750.00	3		\$2,250.00	
80	2	Sewer, CI A, Tr Det B, 12 inch	Ft	\$58.00	1365		\$79,170.00	
81	2	Sewer, CI A, Tr Det B, 15 inch	Ft	\$85.00	78		\$6,630.00	
82	2	Culv, CI F, 12 inch	Ft	\$92.50	105		\$9,712.50	
83	2	Culv, CI F, 15 inch	Ft	\$97.50	212		\$20,670.00	
84	2	Culv End Sect, 12 inch	Ea	\$545.00	4		\$2,180.00	
85	2	Culv End Sect, 15 inch	Ea	\$605.00	6		\$3,630.00	
86	2	Dr Structure, Tap, 12 inch	Ea	\$400.00	8		\$3,200.00	
87	2	Dr Structure, Tap, 15 inch	Ea	\$1,000.00	1		\$1,000.00	
88	2	Sewer Tap, 12 inch	Ea	\$495.00	2		\$990.00	
89	2	Video Taping Sewer and Culv Pipe	Ft	\$1.00	1760		\$1,760.00	
90	2	Dr Structure Cover, Adj, Case 1	Ea	\$300.00	2		\$600.00	
91	2	Dr Structure Cover, Adj, Case 2	Ea	\$300.00	2		\$600.00	
92	2	DPS Structure Cover, Adj, Case 1	Ea	\$300.00	1		\$300.00	
93	2	DPS Structure Cover, Adj, Case 2	Ea	\$300.00	8		\$2,400.00	
						Subtotals	\$1,662,156.07	\$0.00
						Total	\$1,662,156.07	\$1,662,156.07

