CITY OF NOVI CITY COUNCIL APRIL 26, 2021



SUBJECT: Consideration of approval of Change Order No. 1 to Pro-Line Asphalt Paving Corporation for the 2021 Neighborhood Road Program – Asphalt Streets, in the amount of \$1,070,965.00.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 1,070,965.00
AMOUNT BUDGETED	\$ 2,205,667.00
APPROPRIATION REQUIRED	\$0
LINE ITEM NUMBER	203-203.00-864.223

BACKGROUND INFORMATION: OHM-Advisors assisted the Engineering Division with developing a list of potential streets for the 2020 and 2021 Neighborhood Road Program (NRP). The program was divided into two contracts: concrete roads and asphalt roads. The programs were also advertised for a two-year contract to secure unit prices and lower the overall costs of bidding and design.

In 2019, the streets in the 2020/2021 program were being looked at for surface conditions and geotechnical investigations for base and subbase discrepancies. All remaining streets in the Orchard Ridge Estates Subdivision, located off 10 Mile Road, just east of the Civic Center, were selected as final candidates for the 2021 Neighborhood Road Program. At that time, it was determined that nearly half of the existing concrete curb and gutter needed replacement.

In preparation for this year's program, we noted significant, excessive deterioration of the curb and gutter which was not visible during the 2019 inspection or selection process. It appears all the curb and gutter in this subdivision suffers from a chemical condition called ASR or Alkali-Silica Reaction, more commonly known as "concrete cancer". ASR is a deleterious swelling reaction that occurs over time in concrete between the highly alkaline cement paste and the reactive silica found in many aggregates. This chemical reaction causes the expansion of the altered aggregate by the formation of a soluble and viscous gel

and ultimately causes spalling and loss of strength of the concrete. The rate of deterioration from ASR can vary greatly from location to location. The final stages of this reaction can take place in a rapid 10 years to a slow 40+ years. The viscous gel is normally not visible until the curb has reached its total loss of structural integrity.

This amount of additional concrete curb and gutter removal and replacement doubles the original curb bid items by \$334,776.

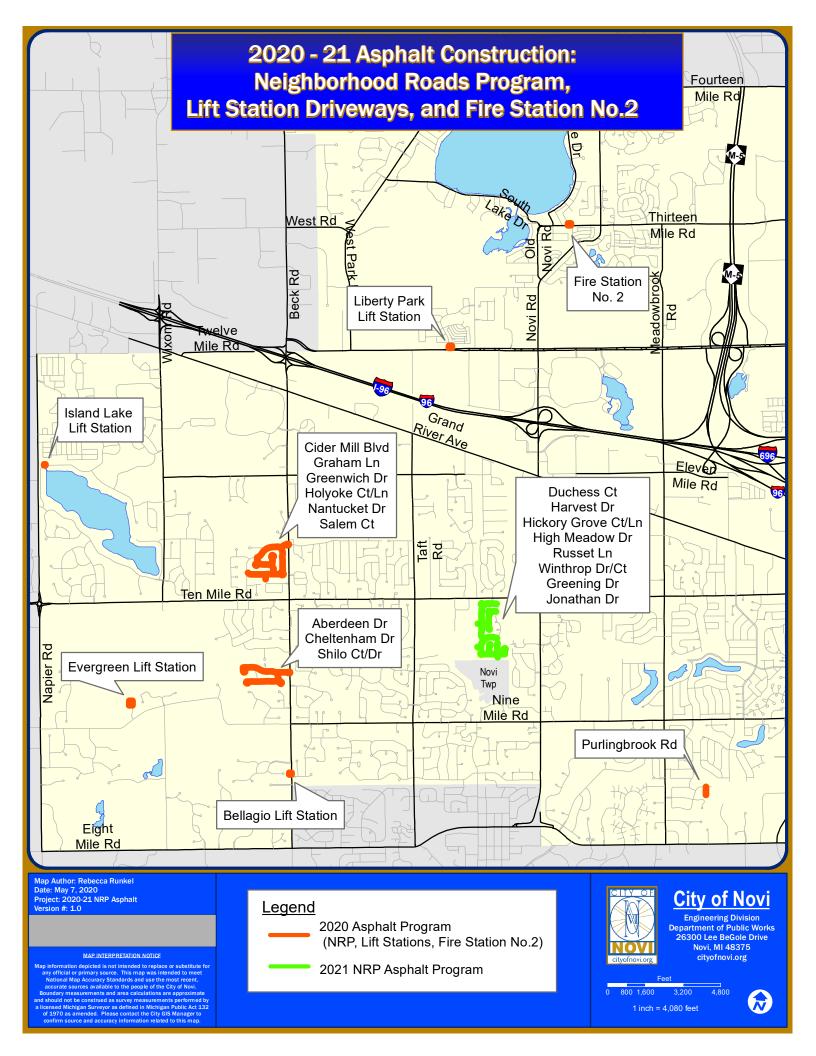
After redirecting dollars from the FY 20-21 Capital Preventative Maintenance - Asphalt Program and monies withheld from last year's road program due to COVID-19, DPW can tackle this additional curb and gutter as well as several smaller street segments which were originally "on the bubble" during the initial construction and budgeting selection process.

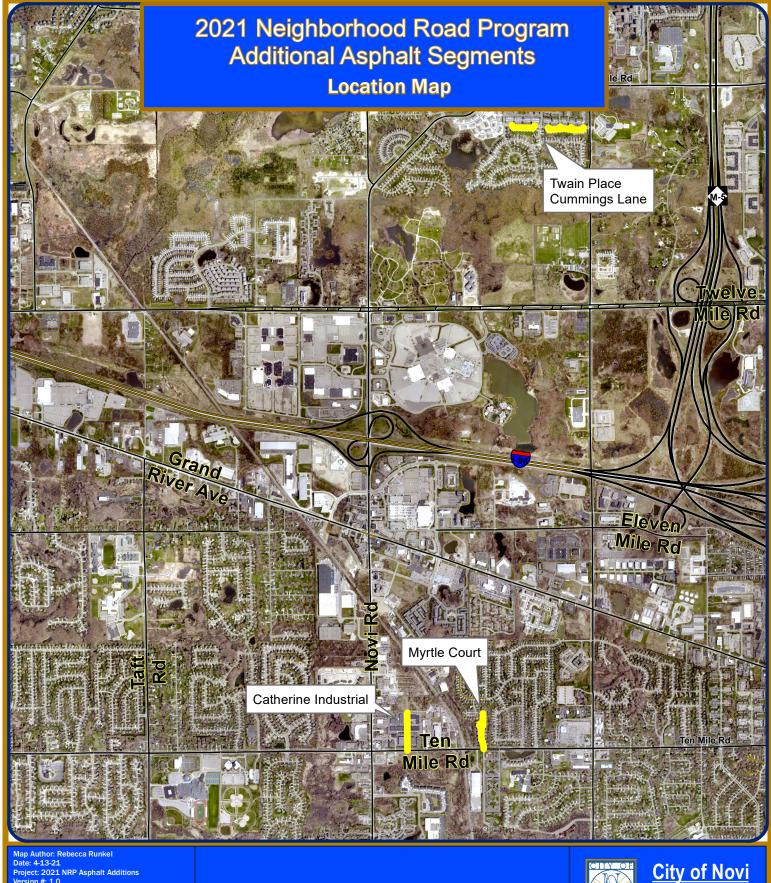
The following street segments are being proposed for addition to this year's asphalt program: Catherine Industrial and Myrtle Court off 10 Mile Road, Twain Place and Cummings Lane in the Tollgate Woods/Ravines developments. These additional street segments can also provide the contractor with places to alternate work tasks, instead of delays or even performing other work outside Novi. Also, addressing these street segments now significantly reduces the amount of maintenance required throughout the coming years.

The contract administration and geotechnical engineering services related to these project additions 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.

OHM-Advisors							
Orchard Ridge Curb & Additional Streets	Contract Administration	4.75% of the construction contract (\$1,070,965.00 X 0.0475)	\$ 50,870.84				
	Crew Days	\$700 daily inspection fee x 57 days	\$ 39,900.00				
	Design Services	7.0% for additional streets	\$ 19,595.00				
Testing Engineers & Consultants, Inc. (TEC)							
Orchard Ridge Curb & Additional Streets	Material testing services	1.9% of the construction contract (\$1,070,965.00 X 0.019)	\$ 20,348.34				

RECOMMENDED ACTION: Approval of Change Order No. 1 to Pro-Line Asphalt Paving Corporation for the 2021 Neighborhood Road Program – Asphalt Streets, in the amount of \$1,070,965.00.





MAP INTERPRETATION NOTICE

Additional Segments



1 inch = 2,293 feet





WORK CHANGE DIRECTIVE & CHANGE ORDER No. ____1

PURCHASE ORDER NO. 96545

NOVI NO.:	
CIP NO.:	102-01

Project:	2021 NRP - Asphalt Streets	
Owner:	City of Novi 26300 Lee BeGole Dr. Novi, Michigan 48375 (248) 735-5632	Engineer: OHM Advisors 34000 Plymouth Road Livonia, Michigan 48150 (734) 522-6711
Contractor:	Pro-Line Asphalt Paving Corp. 11797 29 Mile Road Washington, Michigan 48095 (586) 752-7730	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:	April 12, 2021	
Reasoning:	Increase in selected Bid Quantities and addition of Items 25-36 for	r work on Myrtle Court, Catherine Industrial Drive, Twain Place and Cummings Lane. Includes increase of 85 Crew Days.

EXISTING CONTRACT ITEMS

						Contract Price	
Item No.	Division	Item Description	<u>Unit</u>	Unit Price	Quantity	Add	Deduct
0		"Crew Days" - Base Bid	CD	\$700.00	85	☑	
0		"Crew Days" -	CD	\$700.00			
0		"Crew Days" -	CD	\$700.00			<u> </u>
0		"Crew Days" -	CD	\$700.00			
0	_	"Crew Days" -	CD	\$700.00			
4	Α	Curb and Gutter, Remove	LFT	\$10.00	11578	\$115,780.00	
5	Α	Pavt, Remove, Modified	SYD	\$5.00	7825	\$39,125.00	
6		Aggregate Base, 6-inch	SYD	\$25.00	340	\$8,500.00	
7	A	7A_Aggregate Base, 4-inch, Alternate	SYD	\$10.50	7800	\$81,900.00	
7	A	7C_Geogrid, TriAx 130S	SYD	\$2.20	5050	\$11,110.00	
8	A	Maintenance Aggregate	TON	\$30.00	350	\$10,500.00	
9 11	A	Subgrade Undercutting, Type II Geogrid, TriAx 150	CYD SYD	\$10.00 \$3.00	300 115	\$3,000.00 \$345.00	
12 13	A	Case 1 - Point-Up Dr Structure	EA VFT	\$400.00	5 14	\$2,000.00	
	A	Case 2 - Reconstruct Dr Structure		\$500.00		\$7,000.00	
14	A	Case 3 - Adjust Dr Structure	EA LFT	\$850.00	<u>8</u> 5780	\$6,800.00	
15	A	Underdrain, Subgrade, 6", Modified		\$16.00		\$92,480.00	
16		HMA, 4E1	TON	\$110.00	1115	\$122,650.00	
17	A	17A_HMA, 5#1, Fiber Added	TON	\$126.00	650	\$81,900.00	
18		Driveway, Nonreinf Conc, 6-inch	SYD LFT	\$44.00	340 10848	\$14,960.00	
19	A	Curb and Gutter, Conc, Det D2, Mod		\$27.00		\$292,896.00	
20	A	Curb and Gutter, Conc, Det F6, Mod	LFT	\$27.00	785	\$21,195.00	
21	Α	Temporary Mailboxes, Bank	EA	\$2,500.00	7	\$17,500.00	
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					Subtotals	\$929,641.00	\$0.00
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		NEW	CONTRACT IT	'EMS			
4 No	Division				O atitu	Contrac	
Item No. 25	<u>Division</u> A	Item Description Mobilization for Additional Streets	<u>Unit</u> LS	Unit Price \$30,000.00	Quantity 1	<u>Add</u> \$30,000.00	<u>Deduct</u>
26	Â	Audio Visual Route Survey for Additional Streets	LS	\$6,000.00	'	\$6,000.00	
27	A	Traffic Maintenance and Control for Additional Streets	LS	\$55,000.00	<u> </u>	\$55,000.00	
28	Α	Restoration for Additional Streets	LS	\$35,000.00	1	\$35,000.00	
29	Α	Soil Erosion Controls for Additional Streets	LS	\$5,000.00	1	\$5,000.00	
30	Α	Sidewalk, Remove, Modified	SYD	\$13.00	85	\$1,105.00	
31	Α	Aggregate Base, 4-inch	SYD	\$23.00	85	\$1,955.00	
32	Α	Aggregate Base, 8-inch, Modified	SYD	\$18.00	100	\$1,800.00	
33	Α	Detectable Warning Surface	LFT	\$35.00	28	\$980.00	
34	Α	Curb Ramp Opening, Conc	LFT	\$27.00	32	\$864.00	
35	Α	Sidewalk Ramp, Conc, 6-inch	SFT	\$6.00	120	\$720.00	
36	Α	Sidewalk, Conc, 4-inch	SFT	\$5.00	580	\$2,900.00	
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