



**CITY OF NOVI CITY COUNCIL
JULY 11, 2022**

SUBJECT: Consideration of Approval of Change Order No. 1 to Asphalt Specialists, Inc. for the 2022 Neighborhood Road Program – Asphalt Streets in the amount of \$250,972.44.

SUBMITTING DEPARTMENT: Department of Public Works – Engineering Division

EXPENDITURE REQUIRED	\$ 250,972.44
AMOUNT BUDGETED	\$ 362,541.00 FY 2021-22 BA Rollover \$ 1,537,223.00 FY 2022-23 Budget \$ 1,899,764.00 Total
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	203-203.00-864.233

BACKGROUND INFORMATION:

Spalding DeDecker and Testing Engineers & Consultants assisted the Engineering Division with developing a list of potential streets for the 2022 and 2023 Neighborhood Road Program (NRP). The program was divided into two contracts, concrete 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.

Christina Lane, located on the north side of 10 Mile Road, across from the Police Headquarters' entrance, (map included) is one street in the 2022 NRP – Asphalt program. Pre-construction geotechnical borings of the road's subbase and pavement cores of the existing asphalt indicated a hefty cross section of 8 to 11 inches thick of existing asphalt over a stable clay subbase. The fix proposed based on this information was to remove and replace individual, discrete portions of concrete curb and gutter; mill off 3-inches of existing asphalt surface; and replace with 3-inches of new asphalt.

Approximately 500 lineal feet of existing concrete curb and gutter was replaced on Christina Lane as planned. Immediately following the 3-inch mill of the asphalt surface, the remainder of the existing asphalt began to buckle, break apart, heave, and sink into the moist clay subgrade of the road. Due to the friable nature of the lower lifts, the existing asphalt, although sufficiently thick, was unable to bridge the subsoil below (pictures

included). After a complete evaluation or proof rolling of Christina Lane, approximately 40% is in a condition that warrants some form of full reconstructive effort. Several areas throughout the roadway began to rut to the point where residents' vehicles began to bottom out, causing damage their undercarriage. For that reason, the roadway was closed to through traffic. Due to the urgent nature of the issue, the contractor was approved to proceed with the corrective actions as laid out in the paragraph below.

City personnel along with several geotechnical and civil engineers met with the contractor to come up with solid fixes for each of the problem areas. A couple areas will need to be completely undercut and the roadway re-built from the bottom up. A couple other areas (not as bad) will be treated with a cement stabilizer, pulverized, compacted, and repaved.

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.

Spalding DeDecker			
Christina Lane Revised Cross Section	Contract Administration	5.5% of the Change Order value (\$250,972.44 X 0.075)	\$ 13,803.48
	Crew Days	\$700 daily inspection fee x 8 days	\$ 5,600.00
Testing Engineers & Consultants, Inc. (TEC)			
Christina Lane Revised Cross Section	Material testing services	1.9% of the Change Order value (\$250,972.44 X 0.03)	\$ 4,768.48

RECOMMENDED ACTION: Approval of Change Order No. 1 to Asphalt Specialists, Inc. for the 2022 Neighborhood Road Program – Asphalt Streets in the amount of \$250,972.44.

CHRISTINA LANE 2022 NRP - ASPHALT PROGRAM

Location Map



Map Author: Aaron J. Staup
Date: June 29, 2022
Project: 2022 NRP - Asphalt Streets
Version #: 1

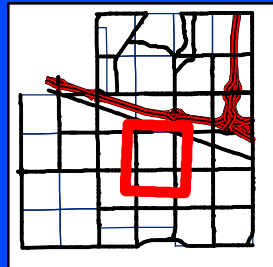
Amended By:
Date:
Department:

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.

Map Legend

- Minor Road
- Major Road
- Expressway
- City of Novi
- Novi Township



City of Novi

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



CHRISTINA LANE – FAILED ROADWAY PORTIONS



Northbound lane of Christina Lane, near Sussex Drive



Southbound lane of Christina Lane, near Sussex Drive



Looking east to west across Christina Lane, near Sussex Drive

