



CITY of NOVI CITY COUNCIL

**Agenda Item 14
May 21, 2018**

SUBJECT: Approval to award civil engineering services to AECOM for construction engineering services associated with the 2018 and 2019 Asphalt Neighborhood Roads Program in the amount of \$170,399.80.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division

CITY MANAGER APPROVAL:

EXPENDITURE REQUIRED	\$ 105,695.90 NRP 2018- Asphalt \$ 64,703.90 NRP 2019- Asphalt \$ 170,399.80 Total
AMOUNT BUDGETED	\$ 367,106 NRP 2018- Asphalt (FY 2017-18) \$ 1,500,000 NRP 2018- Asphalt (FY 2018-19) \$ 1,867,106 Subtotal \$ 200,000 NRP 2019- Asphalt (FY 2018-19) \$ 900,000 NRP 2019- Asphalt (FY 2019-20) \$ 1,100,000 Subtotal \$ 2,967,106 Total
APPROPRIATION REQUIRED	N/A
LINE ITEM NUMBER	203-203.00-864.193 (102-01 NRP 2018 - Asphalt) 203-203.00-864.203 (102-01 NRP 2019 - Asphalt)

BACKGROUND INFORMATION:

AECOM, engineering consultants to the City, helped develop a list of streets for the 2018 and 2019 Neighborhood Roads Program (NRP). Staff divided the program into two contracts with one focusing on concrete roads and the other one focusing on asphalt roads. Staff advertised the program for a two-year contract to capture unit prices and lower logistical costs of bidding and design. This process allows the City flexibility regarding the scheduling of different project areas. The Neighborhood Roads Program work includes asphalt rehabilitation and reconstruction of local roadways in an effort to preserve the longevity of the existing roadways.

The roads selected for 2018 Asphalt Neighborhood Roads Program are Churchill Boulevard, four sections of Island Lake Drive, Heatherbrae Way South, Siegal Drive, Siegal Court, and Singh Boulevard.

The roads selected for the 2019 Asphalt Neighborhood Roads Program are Lynwood Drive, Warrington Drive, Warrington Court, Edinborough Lane, and Inverness Court. The three roads bid as alternates were Vero Court, Vasilius Court, and the curb and gutter that is in

disrepair along Anchorage Court (Vasilios Court conflicts with a Water and Sewer project; therefore, it was removed from consideration for the award).

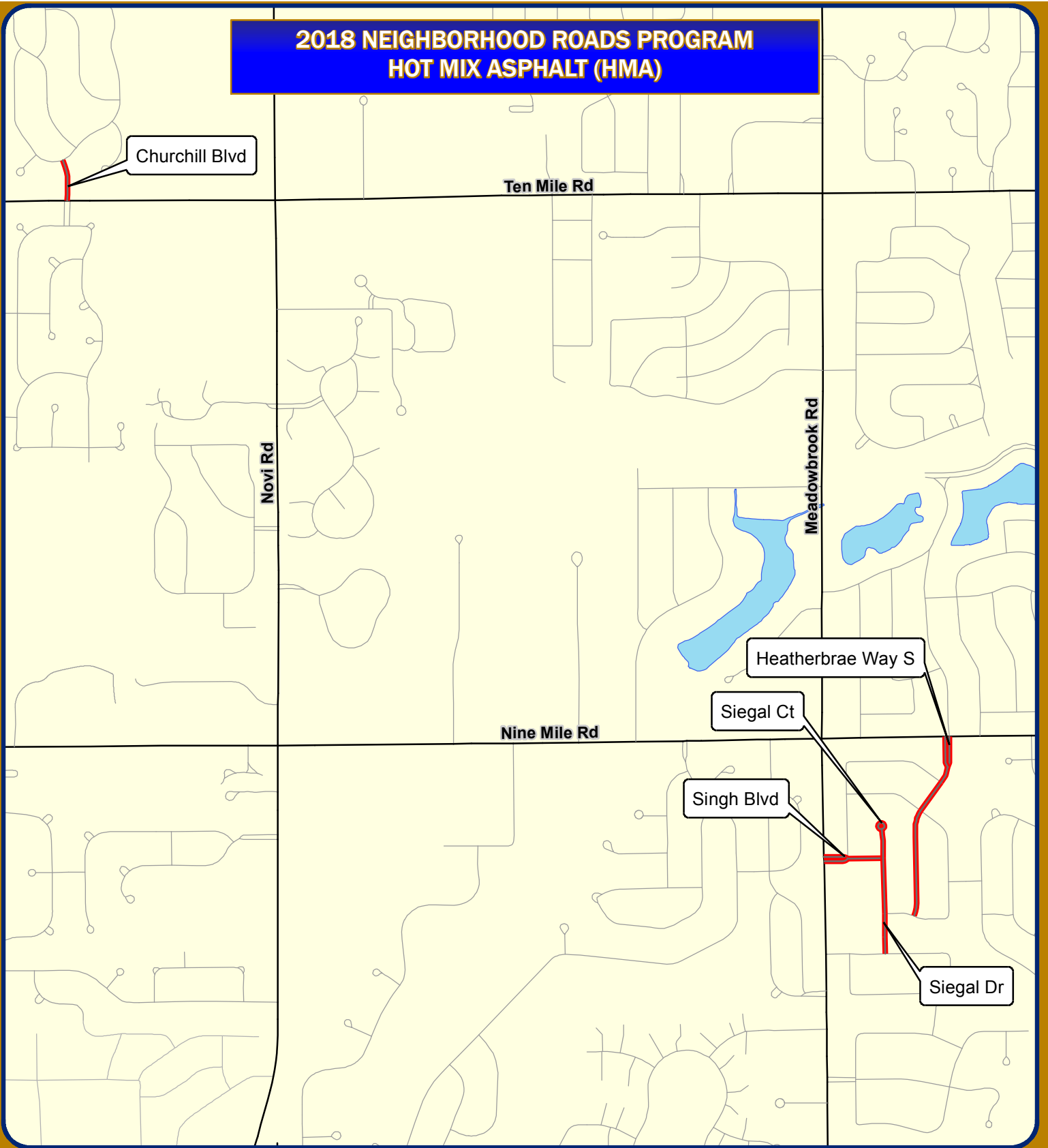
AECOM assisted the Engineering Division with developing the plans for this project. Staff advertised the plans for public bids on April 26, 2018. The construction phase engineering fees are determined using two components: 1) The contract administration fee, using the fee percentage in Exhibit B of the Agreement for Professional Engineering Services for Public Projects; 2) The construction inspection fee, using a cost per inspection (crew) day from Exhibit B of the consultant's agreement, multiplied by the number of days of inspection specified by the contractor.

The construction phase engineering fees for the project include a 2018 contract administration fee of \$51,795.90 (3.75% of the \$1,381,224.00 construction bid including alternates bids 1 and 3), a 2018 inspection fee of \$53,900 (\$700 per crew day, multiplied by the 77 days provided in the contractor's bid including alternates 1 and 3), a 2019 contract administration fee of \$29,703.90 (3.75% of the \$792,104.00 construction bid), and a 2019 inspection fee of \$35,000 (\$700 per crew day, multiplied by the 50 days provided in the contractor's bid) for a total fee of \$170,399.80.

The construction contract award is proposed for consideration elsewhere on this agenda. The 2018 selected roads will be substantially complete by fall 2018 and the 2019 roads will be substantially complete by fall of 2019.

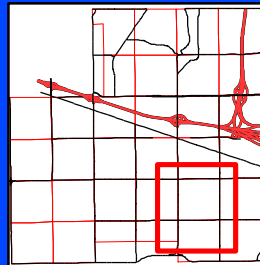
RECOMMENDED ACTION: Approval to award civil engineering services to AECOM for construction engineering services associated with the 2018 and 2019 Asphalt Neighborhood Roads Program in the amount of \$170,399.80.

2018 NEIGHBORHOOD ROADS PROGRAM HOT MIX ASPHALT (HMA)



Map Author: Joseph Akers
Date: May 10, 2018
Project: 2018 Road Construction
Version #: 1.3

Legend
 2018 Neighborhood Roads - Asphalt



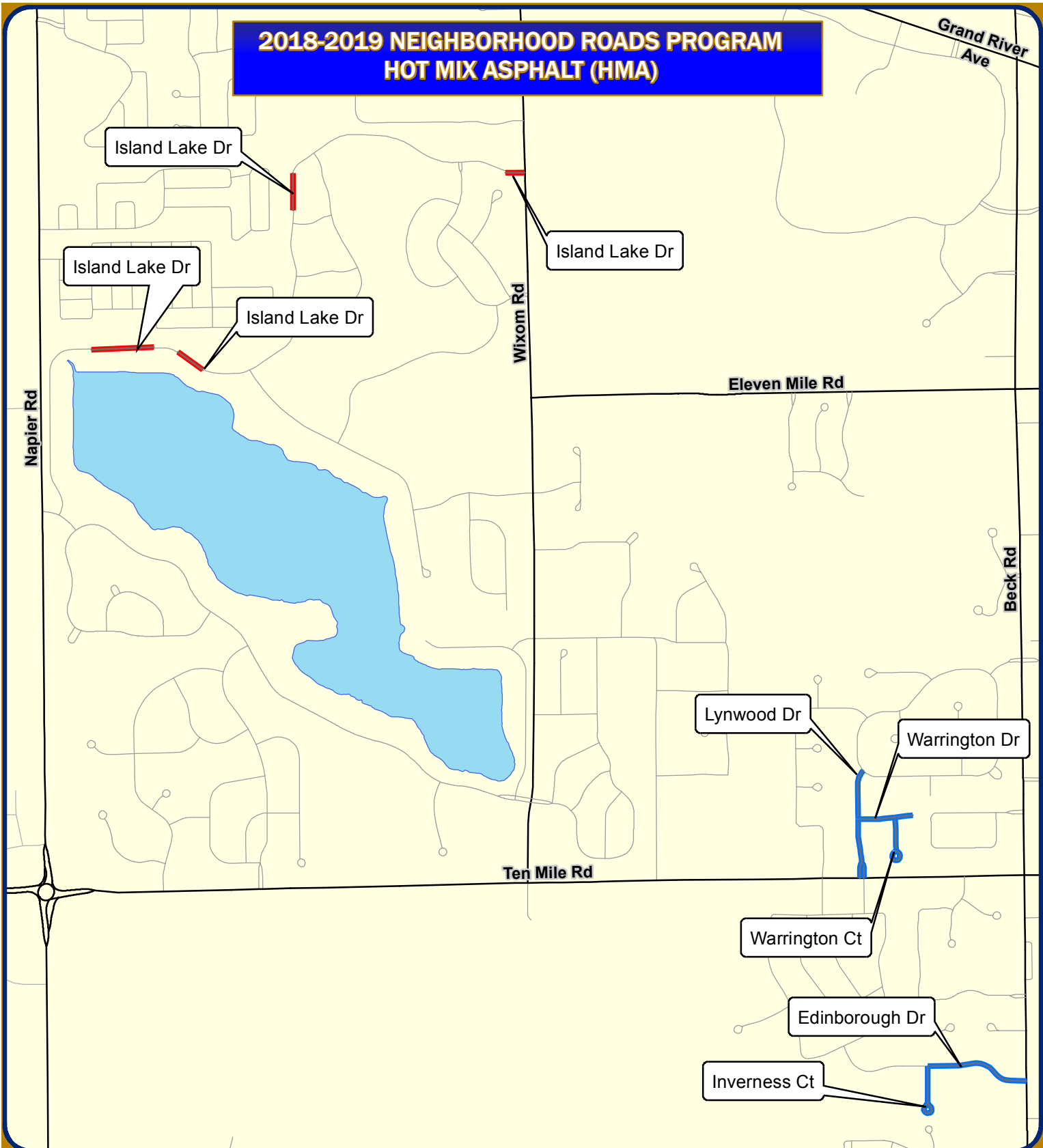
City of Novi
 Engineering Division
 Department of Public Services
 26300 Lee BeGole Drive
 Novi, MI 48375
cityofnovi.org



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.

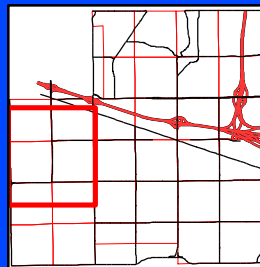
2018-2019 NEIGHBORHOOD ROADS PROGRAM HOT MIX ASPHALT (HMA)



Map Author: Joseph Akers
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Legend

- 2018 Neighborhood Roads - Asphalt
- 2019 Neighborhood Roads - Asphalt



City of Novi

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1 inch = 1,424 feet



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May 14, 2018

Mr. Joseph Akers
City of Novi
Engineering Department
26300 Lee BeGole Dr
Novi, MI 48375

Reference: 2018-2019 HMA Neighborhood Roads Program – Construction Engineering Services
AECOM Project Number 60568693

Dear Mr. Akers:

AECOM is pleased to provide the following proposal for Construction Engineer for the 2018-2019 HMA Neighborhood Roads Program project in accordance with the Civil Engineering Master Services Agreement dated December 18, 2017.

Project Overview and Scope of Services

This project includes rehabilitation and reconstruction of HMA pavement, and upgrades to adjacent ADA ramps. Our Construction Engineering services will include Construction Contract Administration and Inspection, as defined in the Civil Engineering Master Services Agreement.

Construction Cost and Proposed Fees

Construction Administration fee is based on a percentage of the as bid construction cost and the percentage used is based on the type of proposed work, as defined in the original Agreement. The fees for this project will be based on the “Construction” rates in the fee table.

Construction Inspection Services will be provided for \$700.00 per crew day as described in the original Agreement. The original budget will be that of the Crew Day bid amount of the awarded Contractor.

2018 CONSTRUCTION ADMINISTRATION:	$\$1,231,254.00 \times 3.75\% = \$46,172.03$
2018 CONSTRUCTION INSPECTION:	$\$700.00/\text{Crew Day} \times 60 \text{ Days} = \$42,000$
2019 CONSTRUCTION ADMINISTRATION:	$\$792,104.00 \times 3.75\% = \$29,703.90$
2019 CONSTRUCTION INSPECTION:	$\$700.00/\text{Crew Day} \times 50 \text{ Days} = \$35,000$
ALT BID 1 CONSTRUCTION ADMINISTRATION:	$\$64,499.00 \times 3.75 = \$2,418.71$
ALT BID 1 CONSTRUCTION INSPECTION:	$\$700.00/\text{Crew Day} \times 7 \text{ Days} = \$4,900$
ALT BID 3 CONSTRUCTION ADMINISTRATION:	$\$85,471 \times 3.75\% = \$3,205.16$
ALT BID 3 CONSTRUCTION INSPECTION:	$\$700.00/\text{Crew Day} \times 10 \text{ Days} = \$7,000$
TOTAL:	\$170,399.80

Please feel free to contact me if you have any questions regarding this matter.

Sincerely,

Sean Kelsch, P.E. Project Manager