



**CITY OF NOVI CITY COUNCIL
MARCH 4, 2024**

SUBJECT: Approval to award engineering design services to AECOM for the design of 13 Mile Road Rehabilitation from Meadowbrook Rd to M-5, in the amount of \$53,853.92

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 53,853.92
AMOUNT BUDGETED	\$ 77,550.00
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	202-449.20-976.219

BACKGROUND INFORMATION:

The Great Lakes Water Authority's (GLWA's) 54-inch water main transmission loop project has been under construction in Novi since 2020. The City entered into a cost-share agreement with GLWA at the beginning of the project to reconstruct four road segments impacted by the project, including 13 Mile Rd from Meadowbrook Rd to M-5. The water main work on 13 Mile Road is complete; however, GLWA's work on Meadowbrook Rd will continue into the spring.

To expedite the completion of the road paving portion of the project, City staff recommends using a separate contractor hired by the City to finish rehabilitating 13 Mile Road. The City's cost share with GLWA is still in effect for 13 Mile Road, yet now it will be deducting a good portion of the eastbound lane (south half) that was already reconstructed by GLWA's contractor after the 54-inch water main was installed. The City's contractor will be responsible primarily for reconstructing the westbound lanes (or north half). There is also some rework necessary on the south half, which constitutes milling and repaving of temporary asphalt needed to reopen the roadway late last fall.

City engineering consultant, AECOM, prepared a scope of services for design of the road rehabilitation. The attached design engineering services proposal outlines the detailed scope of services. The design fee for this project will be \$53,853.92 (5% of the

estimated construction cost of \$1,077,078.39). AECOM's engineering fees are based on the fixed fee schedule established in the Agreement for Professional Engineering Services for Public Projects. The design of this project would begin following award with construction planned to start this summer.

RECOMMENDED ACTION: Approval to award engineering design services to AECOM for the design of 13 Mile Road Rehabilitation from Meadowbrook Rd to M-5, in the amount of \$53,853.92



February 6, 2024

Ms. Rebecca Runkel
City of Novi
Field Services Complex
26300 Lee Begole Drive
Novi, MI 48375

Reference: Scope and Fee Letter for
13 Mile Rd from Meadowbrook Rd to M-5

Dear Ms. Runkel,

AECOM is pleased to submit this proposal for the above referenced project. The work anticipated to be completed in this project is the profile milling of the southern half of 13 Mile Rd along with the full removal of existing asphalt on the northern half of 13 Mile Rd. Aggregate base conditioning will be done on the northern half of the road followed by a resurfacing. Other anticipated elements of work for this project include the profile milling and resurfacing of the asphalt pathway to bring it within ADA compliance, reconstruction of HMA approaches, spot curb removal and replacement, ditching improvements between the daycare driveways, ADA ramp work at the Meadowbrook intersection, and the regrading of the ground to eliminate an extreme slope in the pathway in the SE quadrant of Meadowbrook and 13 Mile Rd.

The following tasks will be completed for the projects:

Initial Meeting and Scope Verification

The intent of this task is to meet with the City and verify the limits and scope of work for the project. The city will establish the desired work to be completed. AECOM will then perform a field review of the site to determine the best approach and any other elements of work that would be required. Pavement cores and soil borings will also be request for G2 to collect.

Survey and Base Plans

The intent of this task is to provide topographic survey and base mapping as needed for the proposed design work. We anticipate that a full topographic survey will be required for the entirety of the project.

AECOM will prepare base plans (30% - 40% complete) to identify the major design features. These plans will also be used to further the utility investigation and resolution of potential conflicts. Base plans will include the results of the survey information, utility information received in response to our solicitations for information, and a preliminary estimate.

AECOM will obtain existing utility data with a design ticket through the MISS DIG system. In addition, AECOM will distribute the base plan design set to the utility companies that have indicated that they have facilities in the project area. We will incorporate the additional information that utility companies provide to AECOM into the plan set.

Preliminary Plans

Incorporating the information obtained from the above tasks, we will prepare the preliminary plan sets (90%) in accordance with City requirements. Soil boring/pavement core information will be included in the plans. This submittal will include items such as the typical cross sections, materials/quantities, and details. A Project Manual and preliminary updated cost estimate will also be prepared and submitted for each contract.



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Final Plans and Proposal

Incorporating comments from the City, AECOM will develop the final plans submittal, including the plan sets, Project Manual, and cost estimates.

Construction

AECOM will provide full time inspection, contract administration, and staking as required for the projects. Materials Testing during construction will be performed by a geotechnical engineering firm hired directly by the City under the direction of AECOM.

Schedule

AECOM will have the final design and project manual completed by April 30. It is anticipated that construction will start after Walled Lake schools have finished their 2023-2024 school year, which is June 7th, 2024. The contractor will be permitted to start work on Monday, June 10th, 2024.

Estimated Fees:

AECOM will provide Design Engineering services and Contract Administration services per the 2022-2027 Engineering Fees Table.

The estimated cost of work for this project was determined by approximate quantities established through field visits as well as satellite imagery. The estimated unit prices used were developed from preliminary unit prices provided by Cadillac Asphalt.

13 Mile Rd from Meadowbrook to M-5 Design Fee: \$1,077,078.39 (Construction Cost) x 5.00% = \$53,853.92

We understand that fees for construction phase services will be determined after a construction contract is awarded and that the City will pay the geotechnical firm for soil borings/cores, and materials testing during construction directly.

Please contact me if you have any questions or wish to discuss this submittal.

Sincerely,

AECOM Great Lakes, Inc.

Sean Kelsch, PE
Vice-President