



**CITY OF NOVI CITY COUNCIL
MAY 20, 2024**

SUBJECT: Approval to award engineering design services to AECOM for the design of Meadowbrook Road Storm Sewer Improvements, 9 Mile Rd to 10 Mile Rd, in the amount of \$68,750.36.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 68,750.36
AMOUNT BUDGETED	\$ 93,175.00
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	211-445.00-975.201 Drain Fund

BACKGROUND INFORMATION:

Stormwater along Meadowbrook Road between 9 Mile Rd and 10 Mile Rd is conveyed primarily through roadside ditches. This segment of Meadowbrook Road is comprised mostly of single-family homes with driveways off Meadowbrook Road and culverts under the driveways. An evaluation by DPW staff found that some culverts are not set at the correct elevations for stormwater to travel downstream effectively. Since driveway culverts are the homeowner's responsibility, most are not being maintained properly and impact the overall drainage system.

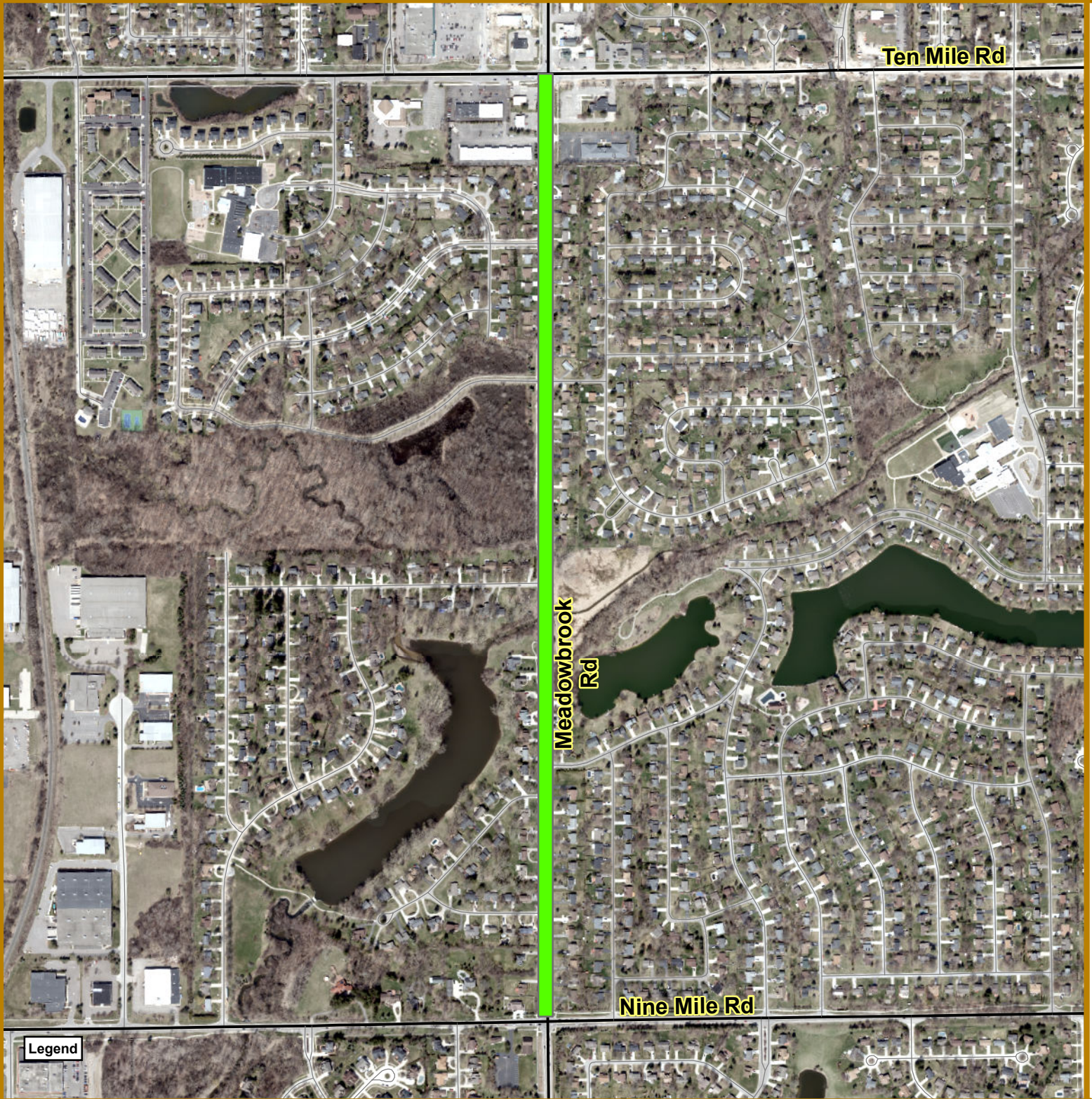
The proposed work will include removing and replacing existing driveway culverts, placing storm sewers between culverts, and connecting existing culverts/storm sewers to the new system. The storm system will connect to Ingersol Creek, which outlets to Meadowbrook Lake.

City engineering consultant, AECOM, prepared a scope of services for design of the storm sewer improvements. The attached proposal outlines the detailed scope of services. The design fee will be \$68,750.36 (8.5% of the estimated construction cost of \$808,827.80). Design of the project would begin following the award, with construction expected to start in the fall of 2024 or spring of 2025.

RECOMMENDED ACTION: Approval to award engineering design services to AECOM for the design of Meadowbrook Road Storm Sewer Upgrades, 9 Mile Rd to 10 Mile Rd, in the amount of \$68,750.36.

Meadowbrook Road Storm Sewer Improvements

9 Mile Rd to 10 Mile Rd



Map Author: Runkel
 Date: 5-1-24
 Version #: 1.0

 Project Area

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.



City of Novi

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



Example of an Open Ditch on Meadowbrook Rd



Example of an Enclosed Ditch on Meadowbrook Rd





April 17, 2024

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

Reference: Scope and Fee Letter for
Meadowbrook Road Storm Upgrades

Dear Ms. Runkel,

AECOM is pleased to submit this proposal for the above referenced project. The work for this project will consist of constructing an enclosed storm system on Meadowbrook Rd between 9 Mile Rd and 10 Mile Rd wherever possible. There are sections within the project limits that likely will require to be open ditches. In these areas, the proposed fix is to excavate and clean out to the original ditch depth. This work will include the removal and replacement of existing culverts crossing residential driveways, placing storm pipe between each new culvert, and connecting existing culverts/storm pipe to the new system. This storm system will outlet to the creek that leads to Meadowbrook Lake.

Initial Meeting and Scope Verification:

The intent of this task is to meet with the City and verify the aims of the reconstruction project as well as identifying any other elements or considerations that should be included in this project. Upon completion of this task, AECOM will move forward with the surveying and preliminary design.

Survey and Base Plans:

The intent of this task is to provide topographic survey and base mapping as needed for the proposed design work. A full topographic survey is anticipated to be needed. Base drawings will be created using the survey data, supplemented by aerial photos, and a detailed field review of the site. AECOM will also perform Bathymetric survey.

Utilities:

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 should there be any need.

Wetland Delineation and EGLE Coordination

AECOM will delineate all wetlands and waterways within the project limits to ensure that the project adheres to all regulatory requirements. The results of the wetland delineation will be shared with EGLE to verify regulatory status of each delineated feature. The proposed work



Ms. Rebecca Runkel
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will be coordinated with EGLE to ensure compliance with wetland protection regulations and also confirm requirements of an open versus enclosed drainage system in the vicinity of regulated natural resources.

Preliminary Plans:

Incorporating the information obtained from the above tasks, we will prepare the preliminary plan set (90%) in accordance with City requirements. This submittal will include items such as the typical cross section, materials/quantities and details. The preliminary plan submittal will also include required special provisions and an estimate of cost.

Final Plans and Proposal:

Incorporating comments from the City, AECOM will develop the final Plans, Project Manual and cost estimate.

Advertising and Award:

We will respond to any final comments received from the City and submit the Advertisement for Bids to the City for publication. Contract documents will be made available to bidders by AECOM. AECOM will respond to bidder inquiries during the advertising period and prepare addenda as required. Following the bid opening, AECOM will submit the Bid Tabulation and a letter with recommendations regarding contract award.

Construction:

AECOM will provide full time inspection, contract administration, and staking as required for the project. This will be completed through a separate authorization.

Estimated Cost of Design and Construction Fees:

The preliminary estimate of construction costs is \$808,827.80

Design Fee: $\$808,827.80 \times 8.5\%$ = \$68,750.36

We understand that fees for construction administration and crew days will be determined after a construction contract is awarded.

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

Sincerely,

AECOM Great Lakes, Inc.

Sean Kelsch, PE
Vice-President