



**CITY OF NOVI CITY COUNCIL  
MARCH 18, 2024**

**SUBJECT:** Approval to award design engineering services to AECOM for the 2024 Salt Dome Replacement Project, in the amount of \$27,600.

**SUBMITTING DEPARTMENT:** Department of Public Works, Field Operations Division

<b>EXPENDITURE REQUIRED</b>	<b>\$ 13,800 General Fund</b> <b><u>\$ 13,800 Drain Fund</u></b> <b>\$ 27,600 TOTAL</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 24,840 General Fund</b> <b><u>\$ 24,840 Drain Fund</u></b> <b>\$ 49,680 TOTAL</b>
<b>APPROPRIATION REQUIRED</b>	<b>\$ 0</b>
<b>LINE ITEM NUMBER</b>	<b>101-441.20-976.125</b> <b>211-445.00-976.125</b>

**BACKGROUND INFORMATION:**

The Salt Dome Replacement Project consists of both reconstructing an existing road salt storage structure, as well as reconfiguring outdoor material storage bins on the north side of the building. These updates will increase storage capacity through the use of a conveyor to maximize vertical space, while also increasing open site space outside of the dome to store aggregate materials.

The current dome was built in the 1980s and is structurally deteriorating. In addition, the narrow doorway was originally constructed to accommodate smaller equipment. Using larger modern equipment leaves the undersized doorway prone to damage when loading and unloading trucks throughout the winter. A modern structure will improve safety and enhance winter maintenance services.

AECOM will design the project this spring with construction planned for this summer.

**RECOMMENDED ACTION:** Approval to award design engineering services to AECOM for the 2024 Salt Dome Replacement Project, in the amount of \$27,600.



March 5, 2024

Mr. Matt Wiktorowski  
City of Novi  
Field Services Complex  
26300 Lee Begole Drive  
Novi, MI 48375

Reference: Scope and Fee Letter for  
Salt Dome Replacement

Dear Mr. Wiktorowski,

AECOM is pleased to submit this proposal for the above referenced project. The work for this project will include the full removal and replacement of the existing Salt Dome at the Department of Public Works Building. The installation of the new Salt Dome will incorporate a new foundation and an above ground conveyor system for loading the dome. Additional site work required will be the removal of existing materials storage bays, construction of two cast-in-place concrete and reinforced bays, and removal and replacement of portions of the parking lot and curb and gutter in order to make room for new bays being shifted as a result of the installation of the conveyor system. An electrical connection will need to be made from the DPW building to the conveyor system as well.

#### Initial Meeting and Scope Verification:

The intent of this task is to meet with the City and verify the aims of the 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.

#### 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.



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**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:**

AECOM anticipates this will be sole sourced to Marcus Construction. AECOM will review the bid and provide a recommendation.

**Construction:**

AECOM will provide 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 \$1,380,000.00

Design Fee:  $\$1,380,000.00 \times 2.0\%$  = \$27,600.00

Anticipated Construction Fee:  $\$1,380,000.00 \times 4.0\%$  = \$55,200.00

Anticipated Crew Days:  $\$800.00 \times 35$  = \$28,000.00

Total = \$110,800.00

Crew days are estimated and will be billed per actual use of days during the inspection of the project.

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

Sincerely,

AECOM Great Lakes, Inc.

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Sean Kelsch, PE  
Vice-President

Existing Structure



Conceptual Replacement Structure





Salt Dome Site Work Zone



# Reconfigured Space

