



Legislation Text

File #: 1329-2017, **Version:** 1

BACKGROUND: This legislation authorizes the Director of Public Utilities to enter into a professional engineering agreement with Arcadis US, Inc. for the Jackson Pike Waste Water Treatment Plant Cogeneration Project. The Jackson Pike Waste Water Treatment Plant creates large amounts of methane rich digester biogas which is now burned in flares as a waste product. A recent feasibility study shows that installing a cogeneration system can beneficially use this biogas as fuel to create electricity that will supply about half the total electricity the plant uses, with an acceptable pay back period and significant overall reductions in greenhouse gas emissions. The cogeneration system will be relatively large and complex. This project purchases the preliminary engineering design services for the project. Future legislation will purchase the detailed design of the project and future legislation will purchase and install the equipment and facilities.

EMERGENCY DESIGNATION: Emergency action is **not** requested at this time

PROJECT TIMELINE: This Engineering Agreement authorizes the Preliminary Design work which is expected to begin on July 1, 2017, and end on March 31, 2018. A first contract modification is expected to authorize the Detailed Design work and Bidding Assistance expected to begin on April 2, 2018, and end on October 11, 2019. A second contract modification is expected to authorize Services during Construction, expected to start on October 12, 2019 and end at the completion of construction expected on March 31, 2021.

PROCUREMENT INFORMATION: The Division advertised for Requests for Proposals for the subject services on the City's Vendor Services website and in the City Bulletin in accordance with the provisions of Section 329.09 of the Columbus City Code. The Division of Sewage and Drainage received five (5) proposals on August 22, 2016 from the following companies:

Firm Name	CC# Expiration City, State	Status		
Black & Veatch	43-1833073	9/22/2017	Columbus, OH	MAJ
Arcadis	57-0373224	5/14/2017	Columbus, OH	MAJ
Varo	31-0722508	2/1/2018	Columbus, OH	MAJ
Hazen & Sawyer	13-2904652	3/14/2018	Columbus, OH	MAJ
CH2M Hill	32-0100027	11/10/2018	Columbus, OH	MAJ

CONTRACT COMPLIANCE NO: 57-0373224 | Exp. 5/14/2017 | DAX Vendor #009409

ECONOMIC / ENVIRONMENTAL IMPACT: This project installs a cogeneration system that will use a plant biogas, now burned in flares as a waste product to create large amounts of electricity. A detailed feasibility study shows a large overall reduction in greenhouse gas emissions every year, and shows the project has a reasonable pay back period when the substantial cost reductions of plant electricity is compared to the overall capital and operating costs.

FISCAL IMPACT: This legislation authorizes the transfer within and the expenditure of up to \$1,025,883.00 within the

Sanitary Sewer General Obligation Bond Fund.

To authorize the Director of Public Utilities to enter into a professional engineering agreement with Arcadis US, Inc. for the Jackson Pike Waste Water Treatment Plant Cogeneration Project; to transfer \$859,883.00 within and expend up to \$1,025,883.00 from the Sanitary Sewer General Obligation Bond Fund; and to amend the 2017 Capital Improvements Budget. (\$1,025,883.00)

WHEREAS, proposals from five (5) firms were received and opened on August 22, 2016 for the Jackson Pike Waste Water Treatment Plant Cogeneration Project; and

WHEREAS, upon review of these proposals, Arcadis US, Inc. was selected based on the following criteria: Proposal Quality, Competence to Perform, Project Schedule, and Local Workforce; and

WHEREAS, it is necessary to authorize the Director of Public Utilities to enter into an agreement for professional engineering services to provide improvements as appropriate for the Jackson Pike Waste Water Treatment Plant Cogeneration Project; and

WHEREAS, it is necessary to authorize the transfer of \$859,883.00 within and the expenditure of up to \$1,025,883.00 from the Sanitary Sewer General Obligation Bond Fund 6109; and

WHEREAS, it is necessary to authorize an amendment to the 2017 Capital Improvements Budget for purposes of providing sufficient expenditure authority for the aforementioned project expenditure; and

WHEREAS, it has become necessary in the usual daily operation of the Division of Sewerage and Drainage, Department of Public Utilities, to authorize the Director of Public Utilities to enter into a professional engineering agreement with Arcadis US, Inc. for the preservation of the public health, peace, property, safety and welfare; **now, therefore**

BE IT ORDAINED BY THE CITY OF COLUMBUS:

SECTION 1: That the Director of Public Utilities is hereby authorized to enter into a professional engineering agreement with Arcadis US, Inc. 100 E. Campus View Blvd., Suite 200, Columbus, Ohio 43235 for the Jackson Pike Waste Water Treatment Plant Cogeneration Project, in the amount of \$1,025,883.00, in accordance with the terms and conditions of the contract on file in the Office of the Division of Sewerage and Drainage.

SECTION 2: That the Director of Public Utilities is hereby authorized to expend a total of \$1,025,883.00 from the Sanitary Sewer Bond Fund 6109 for the Jackson Pike Waste Water Treatment Plant Cogeneration Project, per the accounting codes in the attachment to this ordinance.

SECTION 3: That the City Auditor is hereby authorized to transfer \$859,883.00 within the Sanitary Sewer General Obligation Bond Fund 6109, per the accounting codes in the attachment to this ordinance.

SECTION 4: That the 2017 Capital Improvements Budget is hereby amended as follows:

Project No. | Project Name | Current Authority | Revised Authority | change

650725-100011 | Lg Dia.Blacklick Cr Main Trunk | \$1,200,002 | \$523,735 | -\$676,267 (carryover)
650725-100009 | Center Large Diameter Rehab. | \$250,000 | \$66,384 | -\$183,616 (carryover)
650250-100007 | Jackson Pike WWTP Cogeneration | \$166,000 | \$1,025,883 | +\$859,883

SECTION 5. That the said firm, Arcadis US, Inc. shall perform the work to the satisfaction of the Director of Public Utilities and the Administrator of the Division of Sewerage and Drainage.

SECTION 6. That the City Auditor is hereby authorized and directed to transfer any unencumbered balance in the project account to the unallocated balance within the same fund upon receipt of certification by the Director of the Department administering said project that the project has been completed and the monies no longer required for said project; except that no transfer shall be made from a project account by monies from more than one source.

SECTION 7. That the City Auditor is authorized to establish proper project accounting numbers as appropriate.

SECTION 8. That the funds necessary to carry out the purpose of this ordinance are hereby deemed appropriated, and the City Auditor shall establish such accounting codes as necessary.

SECTION 9. That the City Auditor is authorized to make any accounting changes to revise the funding source for all contracts or contract modifications associated with this ordinance.

SECTION 10. That this Ordinance shall take effect and be in force from and after the earliest period allowed by law.