

RESOLUTION
of the
BOROUGH OF NEW PROVIDENCE
Resolution No. 2020-133

Council Meeting Date: 05-26-2020

Date Adopted: 05-26-2020

TITLE: RESOLUTION AWARDDING CONTRACT TO GRAYBAR, FOR THE WASTEWATER TREATMENT PLANT ARC FLASH ASSESSMENT, IN THE AMOUNT OF \$13,658.54, OMNIA / U.S COMMUNITIES GOVERNMENT PURCHASING ALLIANCE CONTRACT NO EV2370

Councilperson Muñoz submitted the following resolution, which was duly seconded by Councilperson Cumiskey.

WHEREAS, it is necessary to the public health and safety to undertake an ARC Flash Assesemnt at the wastewater treatment plant; and

WHEREAS the Waste Water Treatment Plant Operator has reviewed and evaluated the use of the U.S. Communities Government Purchasing Alliance regarding the charges, materials and delivery of services for the wastewater treatment plant ARC Flash Assessment; and

WHEREAS, the Waste Water Treatment Plant Operator has recommended the proposal, dated April 8, 2020, from Graybar, Omnia / U.S. Communities Government Purchasing Alliance contract no. EV2370, be accepted and the contract awarded to same; and.

WHEREAS, Funding for the project is available in the following capital accounts:

C-04-55-973-455-306400	\$13,658.54
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NOW THEREFORE BE IT RESOLVED by the Mayor and Borough Council of the Borough of New Providence, County of Union and State of New Jersey, that the contract for an ARC Flash Assessment at waste water treatment plant be awarded to Graybar, 800 Huyler Street, Teterboro, N.J. 07608-1157, in the amount of \$13,658.54, and they do further authorize and direct the Mayor and Borough Clerk to execute same.

APPROVED, this 26th day of May, 2020.

RECORD OF VOTE

	AYE	NAY	ABSENT	NOT VOTING
CUMISKEY	X			
DESARNO	X			
GEOFFROY	X			
MATSIKLOUDIS	X			
MUÑOZ	X			
ROBINSON	X			
MORGAN			TO BREAK COUNCIL TIE VOTE	

I hereby certify that the above resolution was adopted at a meeting of the Borough Council held on the 26th day of May, 2020.

Wendi B. Barry, Borough Clerk



BOROUGH OF
NEW PROVIDENCE
SETTLED IN 1720

To: Doug Marvin, Borough Administrator

From: Anthony Carnevale Jr., Wastewater Operations Manager

Cc: Wendi Barry, Borough Clerk
Keith Lynch, Director of Planning and Development

Date: April 14, 2020

RE: Contract Award Recommendation – Arc Flash Assessment

Our department experienced an electrical accident at the plant in January 2020. After the accident PEOSHA visited the plant to inspect and investigate the incident. On February 17, 2020 the Borough received a notice of order to comply. One of the citations in the order requires that the Borough have an Arc Flash Hazard Analysis done on all our electrical control cabinets at the wastewater treatment plant.

With cost savings in mind we contacted Graybar Electric who is part of U.S. Communities Government Purchasing Alliance. Based on a review of the quote provided by Graybar through the Co-op, I recommend that the Borough award this contract to Graybar in the amount of \$13,658.54. Award would be subject to review of statutorily required documents by the Borough Attorney, publication of the attached notification and the availability of funds. A copy of the quote through the Co-op is enclosed.

Please contact me if you have any questions regarding the referenced project.



800 HUYLER ST
TETERBORO NJ 07608-1157
Phone: 201-596-2600
Fax: 201-596-2650

To: BOROUGH OF NEW PROVIDENCE
360 ELKWOOD AVENUE
NEW PROVIDENCE NJ 07974-1838
Attn: TONY
Phone: 908-665-1077
Fax:
Email: jessica.oneill@graybar.com

Date: 04/08/2020
Proj Name: NP ARC FLASH ASSESSMENT
GB Quote #: 0235130843
Release Nbr:
Purchase Order Nbr:
Additional Ref#
Valid From: 04/08/2020
Valid To: 05/08/2020
Contact: JESSICA O'NEILL
Email: jessica.oneill@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

Notes: PRICING BASED ON OMNIA / US COMMUNITIES CONTRACT #EV2370

**New Providence WWTP and Ashwood Lift Station
NFPA 70E Arc Flash Assessment**

2.0 Clarifications

- # It may not be possible to obtain the short circuit withstand rating and overcurrent protective device types & settings of some equipment that is old or obsolete or housed in energized equipment. Where appropriate, engineering validated assumptions will be used.
- # The analysis will consider alternative modes of operation in addition to the normal operating configuration.
- # This proposal is based on a general industrial working environment; any site-specific environmental hazards (asbestos, confined spaces, etc.) that require special PPE or training are not within the scope of this proposal.

DISCLAIMER: The Purchaser acknowledges that the products or part thereof are produced in, or otherwise sourced from, or will be installed in areas already affected by, or that may be affected in the future by, the prevailing COVID-19 epidemics/pandemic and that the situation may trigger stoppage, hindrance or delays in SE#s (or its subcontractors) capacity to produce, deliver, install or service the products, irrespective of whether such stoppage, hindrance or delays are due to measures imposed by authorities or deliberately implemented by SE (or its subcontractors) as preventive or curative measures to avoid harmful contamination exposure of SE#s (or its subcontractors#) employees. The Purchaser therefore recognizes that such circumstances shall be considered as a cause for excusable delay not exposing SE to contractual sanctions including without limitation, delay penalties, liquidated or other damages or termination for default.

Schedule

Work will be scheduled 4 weeks after the order is placed. If there are special scheduling issues to be addressed, please call and discuss scheduling at the phone number on the first page of this

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

This Graybar quote is based on the terms of sale in the EV2370 Master Agreement which can be found by clicking the link found at https://www.omniapartners.com/hubfs/PUBLIC%20SECTOR/Supplier%20Information/Graybar/EV2370_Graybar_MAD_2017_12_20.pdf

To: BOROUGH OF NEW PROVIDENCE
 360 ELKWOOD AVENUE
 NEW PROVIDENCE NJ 07974-1838
 Attn: TONY

Date: 04/08/2020
 Proj Name: NP ARC FLASH ASSESSMENT
 GB Quote #: 0235130843

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document.

Customer Responsibilities

The customer must provide free and clear access to perform the above work. There will be additional charges for customer delays and for additional trips to the site as a result of work cancellation / reschedule.

During onsite work, our personnel will need access to the facility's electrical panels, and the assistance of an electrician or facilities technician familiar with the electrical circuits and loads. The electrical escort should be able to provide access to electrical equipment.

Item	Item/Type	Quantity	Supplier	Catalog Nbr	Description	Price	Unit	Ext.Price
100		1 EA	SQUARE D CO.		ENGINEERING ANALYSIS	\$13,658.54	1	\$13,658.54

Item Note:

1.0 Scope of Work

We understand your desire is to improve the safety and reliability of your electrical system. This proposal is based on Schneider Electric providing the following services based on our discussions:

- # Data Collection
- # Single-line Diagram
- # Short Circuit Analysis
- # Overcurrent Protective Device Coordination Analysis
- # Arc Flash Analysis
- # Arc Flash Incident Energy Labels
- # Arc Flash Incident Energy Affixation

Schneider Electric will perform the selected engineering studies on the electrical distribution system based on the Square D documents, and a walkthrough of the facility and Photos taken by the Schneider Electric SSE. Only devices shown on these drawings are included in the scope of this proposal, as indicated by the resulting device count below.

Square D Documents:

- # FO05708885-B-01 dated 5/24/1995
- # FO05706306-B-01 dated 6/12/1995

The electrical system within the scope of this project will include the existing equipment described below:

City of Summit:

New Providence WWTP:

- # Service Entrance Utility Transformers and Associated MV Fuses
- # 1 # Square D QED Switchboards
- # 5 # Nine Section Motor Control Centers
 - o Pump, 2 # Admin, Disinfection, and Control Bldgs
- # 2 # Line Reactor Panels
- # 1 # 75kVA LV Transformer
- # 1 # LV Panelboard

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1 # Press Control Panel
1 # Generator
Ashwood Lift Station (208V)
Service Entrance Utility Transformer (208V Secondary) and Associated MV Fuses
1 # Panelboard

Deliverables

This proposal includes a concise description of the deliverables. For a detailed description of each study please refer to the attached document titled "Description of Services". Only the studies referenced specifically in this proposal are included.

Studies will be completed using nationally recognized electrical engineering software at Schneider Electric discretion.

System Verification

On site data collection will include cable lengths, overcurrent protective device types & settings, transformer size and impedance, and motor data (>50hp). Particular projects may require other data not listed here.
Gathering of all onsite data will be managed by Schneider Electric and will be performed by our personnel or contractors. Our personnel will perform this task in accordance with NFPA 70E regulations and Schneider Electric safety policy.
To enhance project safety, Schneider Electric has developed a proprietary process to evaluate breakers trip settings and cable sizes in cases where this information may only be determined by exposing workers to energized conductors or electrical outage.

One-line Drawing

A one-line diagram of only the portion of the power distribution system considered in the study, based on the study model. No additional drawings will be delivered with this study.

Short Circuit Study Results

Input and output data.
Short-Circuit Evaluation Tables, which compare the calculated short circuit values to the equipment ratings.
Analysis and recommendations.

Overcurrent Protective Device Coordination Analysis Results

Time current coordination curves based on the recommended settings.
Device settings table that documents both the existing and recommended settings.
The device settings will be based on a compromise and balance between system protection, reliability and arc flash incident energy levels.

Arc Flash Analysis Results

Arc flash incident energy and arc flash boundary values in a tabular format.
The arc flash analysis will be performed per the NFPA 70E standard requirements. The arc flash incident energy and arc flash boundary values will be calculated per IEEE 1584 & 1584.1 methodology. This standard uses empirical data to provide incident energy values used to determine minimum PPE requirements.
Mitigation of arc-flash levels through adjustment of protective device settings will be considered. If acceptable mitigation through this method cannot be achieved, other possible solutions will be discussed. This may involve retrofitting equipment; upgrading protective devices; and other design considerations which are not included in the scope of this analysis.

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Arc Flash Incident Energy Labels

Populated with the results of the Arc Flash Analysis.

Displays Incident Energy Value, Arc Flash Boundary, Shock Hazard Boundaries, and other electrical information.

Satisfies the requirements of UL 969, NFPA 70E, ANSI Z535.4 and the National Electric Code (Article 110.16).

Arc flash labels will be per Schneider Electric standard design.

Arc Flash Incident Energy Label Affixation:

All equipment listed above will be labeled with an arc flash hazard warning as well as an arc flash hazard information label.

Total in USD (Tax not included): **\$13,658.54**

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