

# TRANSPORTATION, INFRASTRUCTURE & OPERATIONS COMMITTEE

AUGUST 19, 2020



Water Main Replacement in the Area of Burning Tree Drive to W. 139<sup>th</sup> Street, Saint Andrews Road to Wornall Road

Authorizing a \$1,554,381.03 construction contract with Blue Nile Contractors, Inc., for the replacement of water mains in the area of Burning Tree Drive to W. 139th Street, and Saint Andrews Drive to Wornall Road; and authorizing a maximum expenditure of \$1,710,000.00.



Water Main Replacement in the Area of Burning Tree Drive to W. 139<sup>th</sup> Street, Saint Andrews Drive to Wornall Road





Water Main Replacement in the Area of Burning Tree Drive to W. 139<sup>th</sup> Street, Saint Andrews Drive to Wornall Road



Public Outreach

Notification Letters Virtual public meeting prior to construction



Green Infrastructure Demonstration - Phase II

Authorizing a \$120,000.00 Design Professional Services Contract Amendment No. 1 with Patti Banks Associates LLC dba Vireo, for the Green Infrastructure Demonstration – Phase II (SLBE-WSDEPS) project; and authorizing a total contract amount of \$470,000.00.



Green Infrastructure Demonstration - Phase II

**Green Infrastructure integration to Smart Sewer Projects** 

### **GSI IN SMART SEWER PROJECTS**

| SSP Program Element                               | GSI Implementation Potential |
|---|------------------------------|
| Diversion Structure & Sewer Pipe<br>Consolidation | High                         |
| Green Infrastructure                              | High                         |
| I/I Reduction                                     | Low                          |
| Neighborhood Sewer Rehabilitation                 | Medium                       |
| Pumping & Conveyance                              | Medium                       |
| Sewer Separation                                  | High                         |
| Storage & Conveyance                              | Low                          |
| Treatment   | Low                          |



Green Infrastructure Demonstration – Phase II





Wastewater SCADA Improvements

Authorizing a \$5,204,323.10 Construction contract with Mark One Electric Company, Inc., for the Wastewater SCADA Improvements project; authorizing a \$999,189.00 Amendment No. 1 to a Design Professional Services contract with Black & Veatch Corporation, for the Wastewater SCADA; authorizing an extension of the term of Amendment No. 1 with Black & Veatch Corporation an additional eight years; authorizing a not to exceed \$150,000.00 sole source purchase agreement with NRTC for a 220 MHz band radio frequencies; and authorizing a maximum expenditure of \$6,873,512.10.





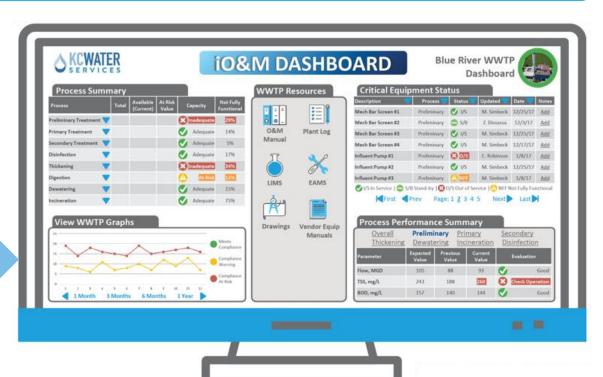
### Secure and Robust SCADA (Supervisory Control and Data Acquisition) Platform

#### **Major Goals**

- User-friendly visual interface
- Focused on O&M needs
- Easily expandable
- Programming standards
- Security

#### **Integrate Real Time Data**

- Status alarms
- Equipment failure
- Run status
- Instrument readouts







### Implement Central Platform & Communications Backbone





### THANK YOU

