

Water System Improvements

Martin County Water District

May 13, 2020

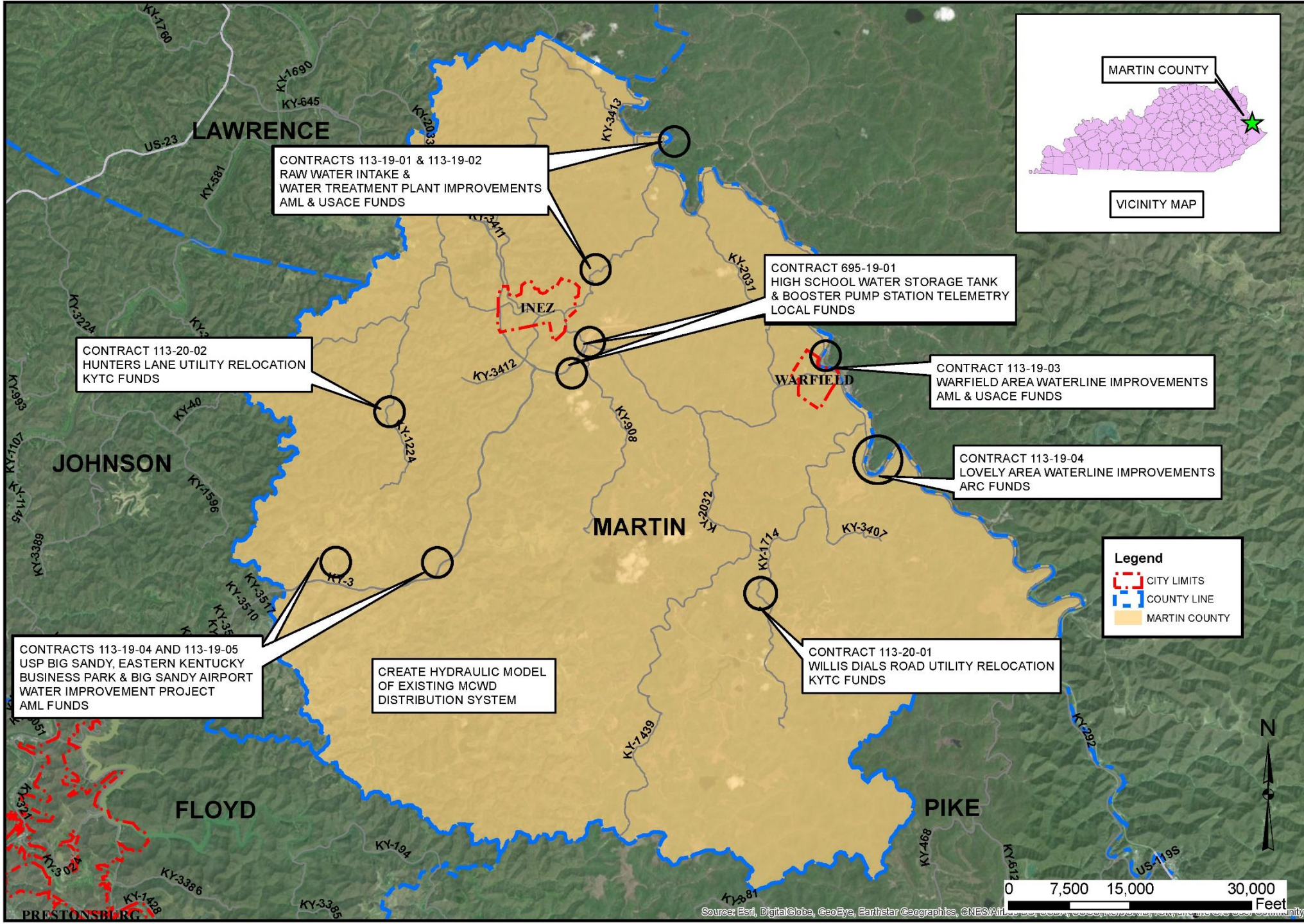
Status Report (BSADD/Bell)

► Team

- Martin County Water District
- Big Sandy Area Development District
- Alliance Water Resources
- Martin County Concerned Citizens Group
- AML, USACE & ARC
- Bell Engineering

► Funding

- AML Pilot NEXUS Grant (2017) - \$3,450,000
- COE 531 Partnership - \$1,869,718
- ARC Grant - \$1,200,000
- AML Pilot NEXUS Grant (2018) - \$2,000,000
- KYTC Bridging Kentucky - To Be Determined



MARTIN COUNTY WATER DISTRICT
LOCATION OF ONGOING PROJECTS
MAY 2020

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bell engineering

Contract 113-19-01

RWI Improvements Pump Purchase Only

▶ Purchase of:

- New 2 MG Raw Water Intake Pump with Variable Speed Drive
- New 4 MG Raw Water Intake Pump with Variable Speed Drive
- New 4,000 GPM River Screen

▶ Budget: \$601,200

▶ Funding: Abandoned Mine Lands 2017 NEXUS

▶ Status:

- Design - Complete
- Bidding - Complete
- Fabrication - Complete

Contract 113-19-02

RWI & WTP Improvements

▶ Raw Water Intake Improvements:

- Concrete Ramp & Winch System for Moving Raw Water Pumps Up & Down Slope
- Electrical Building Upgrade, Telemetry, Line Reactors and Instrumentation

▶ Water Treatment Plant Improvements:

- Clarifiers 1 & 3 Rehabilitation with New Valve Vault for Clarifier 1
- Replace Outside Chlorine Chemical Feed Piping & Roof On Chemical Storage Building
- Replace Master Meter
- Portable Generator Capable of Powering Pump Station Sites & New 660 KVA on-site Generator

▶ **Budget:** \$3,098,860

▶ **Funding:** Abandoned Mine Lands 2017 NEXUS & Army Corps of Engineers

Contract 113-19-02 (Continued)

RWI & WTP Improvements

► Status:

- Phase I Environmental Submitted on January 2.
- Submitted to AML for NEPA Compliance February 6. Currently undergoing AML NEPA Compliance Review.
- Currently undergoing Corps of Engineers NEPA Compliance Review.
- Submitted to DOW on March 13. Bell is currently responding to review comments.
- Project submitted to Corps of Engineers for Plan and Specification Review on March 20. Corps of Engineers provided review comments on April 28. Bell currently responding to review comments.
- Project submitted for Corps of Engineers Application for Department of Army Permit on March 20. Awaiting comments from Corps of Engineers.
- Submitted to DOW for Permit to Construct Along or Across a Stream April 14. Due to ruling by Federal Judge, Nationwide Permits are no longer applicable. The project began its 30-day advertisement for public comment May 4. It is anticipated the permit will be issued in early June.

Contract 113-19-03

Mainline, Service Line & Meter Replacement

- ▶ **Replace in the Warfield Area:**
 - Existing Mainline
 - Existing Meters & Service Line
 - Existing Valves & Hydrants
- ▶ **Total Project Budget: \$1,260,658**
- ▶ **Funding: Abandoned Mine Lands 2017 NEXUS & Army Corps of Engineers**

Contract 113-19-03 (Continued)

Mainline, Service Line & Meter Replacement

► Status

- Phase I Environmental submitted January 2.
- Submitted to AML for NEPA Compliance February 10. Currently undergoing AML NEPA Compliance Review.
- Currently undergoing Corps of Engineers NEPA Compliance Review.
- Submitted to DOW for Construction Permit March 13. Permit Issued on April 27.
- Submitted to KYTC April 6. KYTC requested additional information April 30. Bell Responded to the request for information May 6.
- Project submitted to Corps of Engineers for Plan and Specification review March 20. Corps of Engineers provided review comments April 28. Bell responded to comments and resubmitted plans/specifications May 7.
- Submitted to DOW for Permit to Construct Along or Across a Stream April 14. Due to ruling by Federal Judge, Nationwide Permits are no longer applicable. The project began it's 30-day advertisement for public comment May 4. It is anticipated the permit will be issued in early June. Bell is attempting to get clarification from the Corps of Engineers on path forward.

Contract 113-19-04

Mainline, Service Line & Meter Replacement

- ▶ **Upgrades in the Lovely Area include the Replacement of:**
 - Existing Mainline
 - Existing Meters & Service Line
 - Existing Valves & Hydrants
- ▶ **Budget:** \$1,200,000
- ▶ **Funding:** Appalachian Regional Commission
- ▶ **Status:**
 - Submitted to DOW March 27. DOW Construction Permit Issued April 27.
 - Submitted to KYTC April 6. KYTC Encroachment Permit Issued April 24.
 - Project is currently out for Bid. Bids to be received May 29 at noon.

Contracts 113-19-05 & 113-19-06

USP Big Sandy, Eastern Kentucky Business Park & Big Sandy Airport Water Improvements

► Upgrades Include:

- Construction of 250,000 Gallon Water Storage Tank, New 400 GPM Pump Station and telemetry
- Upgrade of the Existing Davella Pump Station
- Master Meter & Booster Chlorination

► Budget: \$2,000,000

► Funding: Abandoned Mine Lands 2018 NEXUS

► Status:

- Project had been delayed due to COVID-19 restrictions concerning interstate travel impacting the team's ability to meet with representatives of the proposed tank site Owner. This meeting was held on-site May 5 and permission to move forward was granted.
- Surveying and drilling of the tank site for geotechnical purposes are being scheduled.

Contract 695-19-01

High School Water Storage Tank & Booster Pump Station Telemetry

▶ **Upgrades Include:**

- Add telemetry to the Holly Bush Pump Station
- Add telemetry to the High School Water Storage Tank

▶ **Budget:** \$65,000

▶ **Funding:** Local Funds (Martin County Fiscal Court)

▶ **Status:**

- Design: Complete
- Bidding: Complete
- Award: Complete
- Construction: Shop Drawings Submittal & Review Complete. Fabrication of Materials is Underway.

Contracts 113-20-01 and 113-20-02 Hunters Ln. & Willis Rd. Utility Relocations

▶ **Upgrades Include:**

- Relocating waterline to facilitate construction of two new bridges for the KYTC Bridging Kentucky Program

▶ **Budget:** To Be Determined

▶ **Funding:** KYTC

▶ **Status:**

- Developing project scope with Bizzack Construction and Alliance Resources

Martin County Water District Hydraulic Model

- ▶ **Prepare and Calibrate a Hydraulic Model of the Martin County Water District System**
- ▶ **Budget:** \$100,000
- ▶ **Funding:** Abandoned Mine Lands 2017 NEXUS
- ▶ **Status:**
 - Lines, tanks and PRVs have been input into the model.
 - Working with Alliance Resources to obtain and enter usage data.
 - Model is undergoing calibration by field collected data.
 - Model to be checked against field observations.

Discussion/Questions