

Water System Improvements

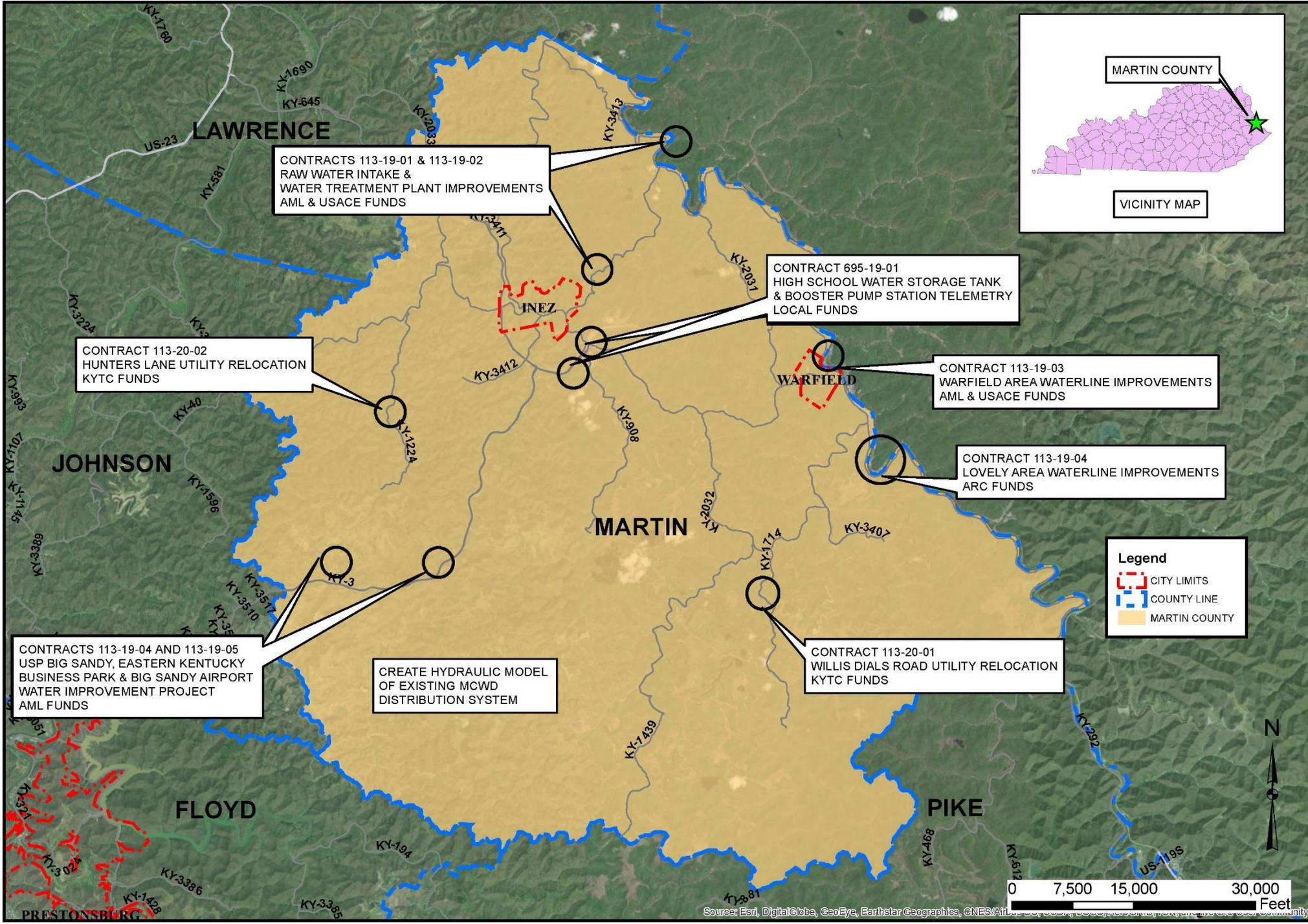
Martin County Water District

August 12, 2020

Status Report (BSADD/Bell)

► 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 - Willis Dials / Dan's Branch Road - \$38,357
Hunters Lane & Rockhouse Creek - To Be Determined



SCALE: 1:130,000

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
- MCWD currently utilizing 2 MGD Pump. 4 MGD Pump to be placed in service upon completion of Contract 113-19-02.

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:

- Division of Water Construction Permit issued June 3rd.
- Corps of Engineers Application for Department of Army Permit issued on June 8th.
- AML Authorization to proceed granted on July 31st.
- Currently undergoing Corps of Engineers NEPA Compliance Review.
- Anticipated Future Activities:
 - Corps of Engineers FONSI issuance Mid-September.
 - Anticipated Advertisement for Bids upon receipt of FONSI.
 - Anticipated Bid Opening Mid-October.
 - Anticipated Contract Award Late-October.
 - Anticipated Start of Construction Early-December (365-day contract).

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

- Division of Water Construction Permit issued April 27th.
- KYTC Encroachment Permit issued May 13th.
- Division of Water Permit to Construct Along or Across a Stream issued on June 17th.
- AML Authorization to proceed granted on July 31st.
- Currently undergoing Corps of Engineers NEPA Compliance Review.
- Anticipated Future Activities:
 - Corps of Engineers FONSI issuance Mid-September.
 - Anticipated Advertisement for Bids upon receipt of FONSI.
 - Anticipated Bid Opening Mid-October.
 - Anticipated Contract Award Late-October.
 - Anticipated Start of Construction Early-December (130-day contract).

Contract 113-19-04

Mainline, Service Line & Meter Replacement

- ▶ **Upgrades in the Lovely Area include the Replacement of:**
 - Existing Mainline, Meters, Service Line, Valves & Hydrants
- ▶ **Budget: \$1,200,000**
- ▶ **Funding: Appalachian Regional Commission (ARC)**
- ▶ **Status:**
 - DOW Construction Permit Issued April 27th.
 - KYTC Encroachment Permit Issued April 24th.
 - Bids received May 29th with Boca Enterprises, Inc submitting the low bid. Due to funds remaining, ARC allowed the District to double the work included in the original project. Project has been awarded to Boca Enterprises.
 - Estimated Start of Construction - Late August (180-Day Contract)

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:**

- The selected site cannot be used.
- Currently evaluating potential new sites.

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
- Materials Fabrication: Complete
- Construction: All equipment installed. Waiting on start-up of equipment.

Contract 113-20-01

Willis Dials/Dan's Branch Road Utility Relocations

► Upgrades Include:

- Relocating waterline to facilitate construction of a new bridge for the KYTC Bridging Kentucky Program

► Budget: \$38,357

► Funding: KYTC

► Status:

- Project submitted for Division of Water approval on July 21st.

Contracts 113-20-02 and 113-20-03 Hunters Ln. & Rockhouse Creek 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. Project construction scheduled for Summer 2021.

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 and location field verified.
 - Line sizes have been verified.
 - Pressure zones are being analyzed.
 - Usage data has been entered into the model.
 - Model is undergoing calibration by field collected data.
 - Model to be checked against field observations.

Discussion/Questions