Water System Improvements
Project Status Update

Martin County Water District

November 18, 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 Funds - Willis Dials / Dan’s Branch Road - $38,357
  - Hunters Lane & Rockhouse Creek - To Be Determined

Total Grant Funding - $8,558,075
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, Bidding & 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
  - 500 KVA on-site Backup Generator

- **Budget:** $3,098,860

- **Funding:** Abandoned Mine Lands 2017 NEXUS & Army Corps of Engineers
Contract 113-19-02 (Continued)
RWI & WTP Improvements

- **Status:**
  - Permits are in place.
  - Authorization To Proceed with Bidding Granted.
  - Project is currently out for bids.
  - Schedule:
    - Pre-Bid Meeting for interested Contractors - December 1, 2020.
    - Anticipated Contract Award - Late December 2020.
    - Anticipated Start of Construction - Early February 2021 (300-day contract).
    - Anticipated End of Construction - Early December 2021
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**

- Permits are in place.
- Authorization To Proceed with Bidding Granted.
- Project is currently out for bids.
- Schedule:
  
  Pre-Bid Meeting for interested Contractors - December 1, 2020.
  Anticipated Contract Award - Late December 2020.
  Anticipated Start of Construction - Early February 2021 (130-day contract).
  Anticipated End of Construction - Mid June 2021
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:
  - Project is under Construction.
  - Anticipated Completion Date: March 20, 2021
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 previously selected tank site cannot be used.
  - Currently evaluating three 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.
Contract 113-20-01
Willis Dials/Dan’s Branch Road Utility Relocation

- Upgrades Include:
  - Relocation of existing waterline to facilitate construction of a new bridge for the KYTC Bridging Kentucky Program

- Budget: $38,357

- Funding: KYTC

- Status:
  - Project approved by Division of Water August 13, 2020.
Contracts 113-20-02 and 113-20-03
Hunters Ln. & Rockhouse Creek Utility Relocations

- **Upgrades Include:**
  - Relocation of existing 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. 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 have been analyzed.
  - Usage data has been entered into the model.
  - Model has been calibrated with field collected data.
  - Model has been checked against field observations.
Discussion/Questions