



**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 Site Development

## Jan 16, 2019

- **Excavating and laying 36in FW Pipeline**
- **Embanking and grading East Areas C & F**
- **Laying fabric and flex base for Barnard Laydown area.**
- **Pig tested and tied-in the 4in SSFM line**
- **Completed south fencing, and demolishing existing fence.**



# South gate installed, and existing fence being demolished



# Tied-in the 4in SSFM line



# Laying the 36in FW Line



# Cad welding the jumpers on the 36in FW Line





# Construction Progress – EWP 4 – Raw Water Corridor

- **Cutting pipeline excavation, and installing shoring system**
- **Tunneling in shaft**
- **Delivering 108in Pipe Joints**
- **Laying 108in Pipe, & Backfilling**
- **Placing CLSM**
- **Resumed Welding**



# CLSM placement operations in the trench





# Backfilling operations in the trench



# Tunneling, grouting, and placing pea gravel





# Construction Progress – EWP 2 Filter Structure & TPS

## **FILTER STRUCTURE:**

- Reinforcing/Forming walls
- Pouring walls
- Placing and aligning pipelines.
- Stripping forms and patching.
- Excavation and backfilling around structures

## **TPS:**

- Forming and reinforcing main slab sections
- Pouring main slab sections



# 36in Pipe Installation East of Interconnect Vault



# 36in Pipe Installation East of Interconnect Vault



# Tie Rebar West Wall of Interconnect



# Concrete Pour and Formwork Installation for C1 Wall



# OZW West Volumetric Test, OZW East Backfilling and Compaction





# Installation Formwork and Water-stop at Wall C4



# Backfilling and compaction West Sanitary Drain Vault



# TPS Main Slab Rebar Area B6 & A3



# TPS Main Slab Rebar Area A3



# TPS Main Slab Pour Area B6



