



**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 Site Development

## Sept 5, 2018

- **Final grading Ponds 1 & 3**
- **Hauling soils**
- **CTB on Road 2 & 3**
- **Installing 20”RW pipeline**
- **Installing fence on south property line.**
- **Installing Storm drain from Pond 3 to Jack’s Ditch**



# Performed flow test on Remote Fire Hose Connection



# Installing Storm Drain from Pond 3 to Jack's Ditch



# Made connection to wetland outfall and backfilled



# Laying CTB on Roads 2 & 3



2018 08 30



2018 08 30



# Construction Progress – EWP 4 – Raw Water Corridor

- **Maintaining dewatering system**
- **Cutting pipeline excavation, and installing shoring system**
- **Installing fence in East corridor, South side**
- **Installing dewatering system in East corridor**
- **Preparing Portal Ring**
- **Laying 108” Pipe**



# Installing Tunnel Shield and Stirring System in Shaft





# Excavating Pipe Trench & Placing Crushed Stone Subgrade



# Lifting and Laying 108" RW Pipe Joints



# Aligning and Welding 108" RW Pipe





# Construction Progress – EWP 2 Filter Structure & TPS

- **Installing formwork for base manifold slabs**
- **Tying rebar for base manifold slabs**
- **Tying rebar for pump can slab**
- **Stripping formwork**

# Stripping forms



# Forming and reinforcing base manifold slabs



# Tying TPS Pump Can Slab Rebar





# Construction Progress – EWP 6

- **Crane and hammer assembled**
- **Cutting and splicing pipe Piles**
- **Staging Pipe Pile Template**
- **Driving test piles**



# Crane & Hammer Assembled for Test piles



**Houston Waterworks Team**



# Driving Test Piles at Lake Houston

