



**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 Site Development

## Mar 6, 2019

- **Preparing for 36in FW Pipe Tie-ins**
- **Cutting & Stabilizing Road 3**
- **Cutting/prepping North Plant pad subgrade**
- **Prepping for second lift of asphalt placement.**



# Importing/placing/compacting select fill subgrade for North Plant pad





# 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**
- **Tack Welding joints**



# Delivered 108in RW Pipe Joints



# Excavating pipe trench at STA 100+00 to 105+00



# Placing fabric & crushed rock in trench at STA 105+00



# Welding shoring beams and delivery of aggregate materials





# Tunneling operation



# Bortunco working on second auger bore





# Construction Progress – EWP 2 Filter Structure & TPS

## **FILTER STRUCTURE:**

- **Reinforcing/Forming walls**
- **Placing and aligning pipelines.**
- **Excavation and backfilling around structures**
- **Pouring Slab A2A**

## **TPS:**

- **Forming, reinforcing, and pouring concrete for wall sections**



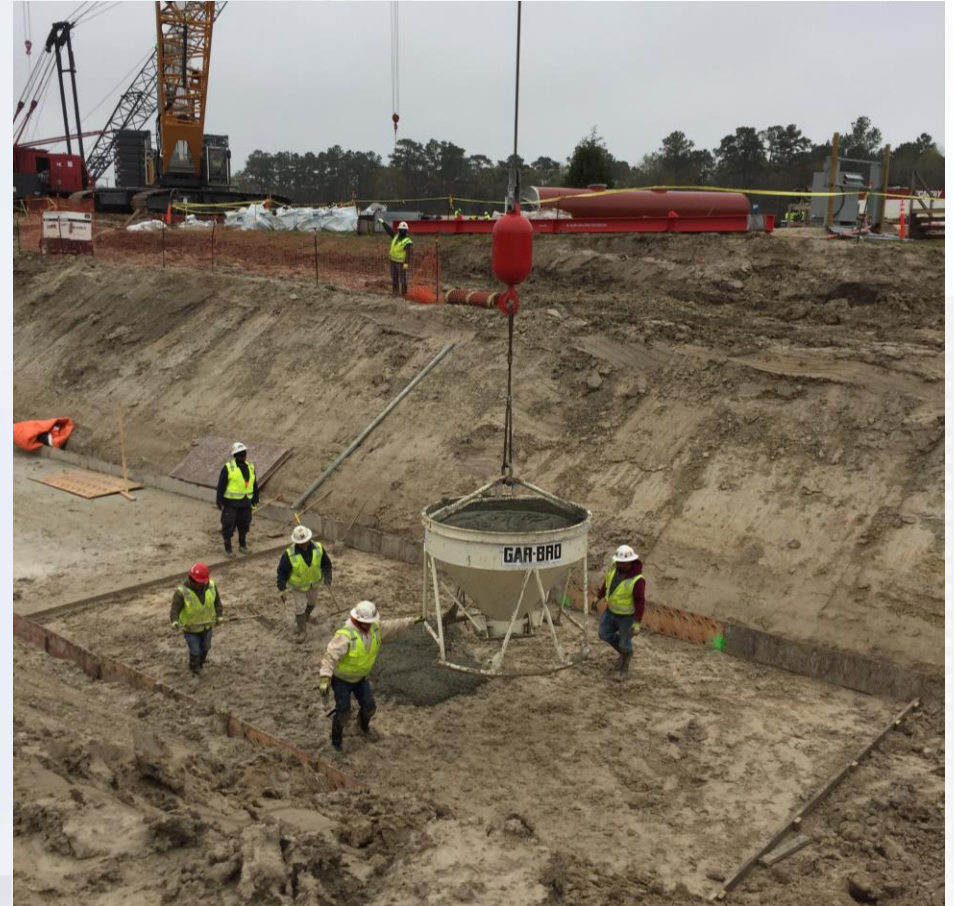
# FILTER MODULE 1- Base Slab A2A pour



# FILTER MODULE 1- Pipe placing and welding



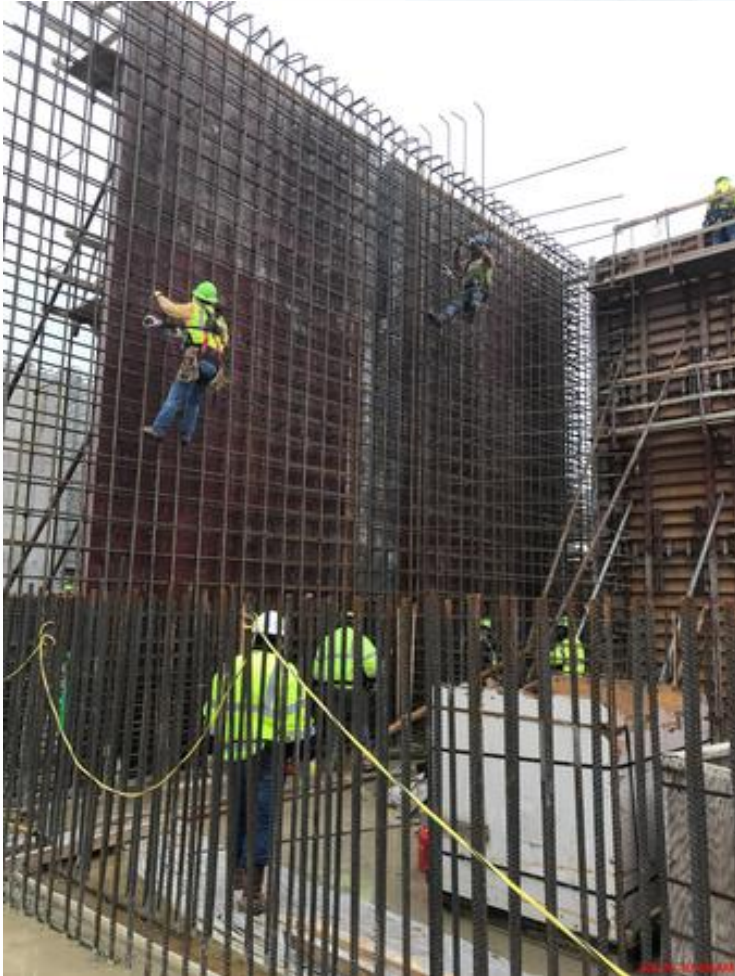
# FILTER MODULE 1- Pipeline Excavation and Mud Slab



# FILTER MODULE 1- Filter Wall B1 [Lift 1]



# TPS 1 - Wall B1 Tying Rebar and Forming







# Construction Progress – Influent Pump Station (IPS)

## **IPS:**

- **McCarthy mobilizing equipment**
- **Lime stabilizing subgrade**





# Mobilizing at IPS



# Lime Stabilizing subgrade

