



**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 & 3 Site Development

## July 17, 2019

- **Filming internal of pipe and line stop**
- **Bolting up by-pass piping to line stop housing**
- **Temporary power installation for Trailer City #2**
- **Relocated south east corner of NEWPP perimeter fencing**
- **Grading additional craft parking lot**



# Bolted bypass piping to line stop housings at tie-in locations



# Filming interior of pipe to determine line stop failure



# Relocated south east corner of NEWPP perimeter fence



# Grading additional craft parking lot



# Installing temp power to Trailer City #2



2019 07 16



2019 07 16



# Construction Progress – EWP 4 Raw Water Corridor

- **CLSM placement**
- **Laying 108 RW Pipe in East Corridor**
- **Shoring Removal and Grouting**
- **Welding joints**
- **Installation of South Tunnel Exit Shaft**





# CLSM Placement



# Native Backfill Placement



# Sta 100+50 Box Culvert Support Preparation



7/16/19, 12:10 PM

# Mucking out Tunnel and Exit Shaft



# Tunnel and Exit Shaft





# Construction Progress – EWP 2 Filter Structure & TPS

## **FILTER STRUCTURE:**

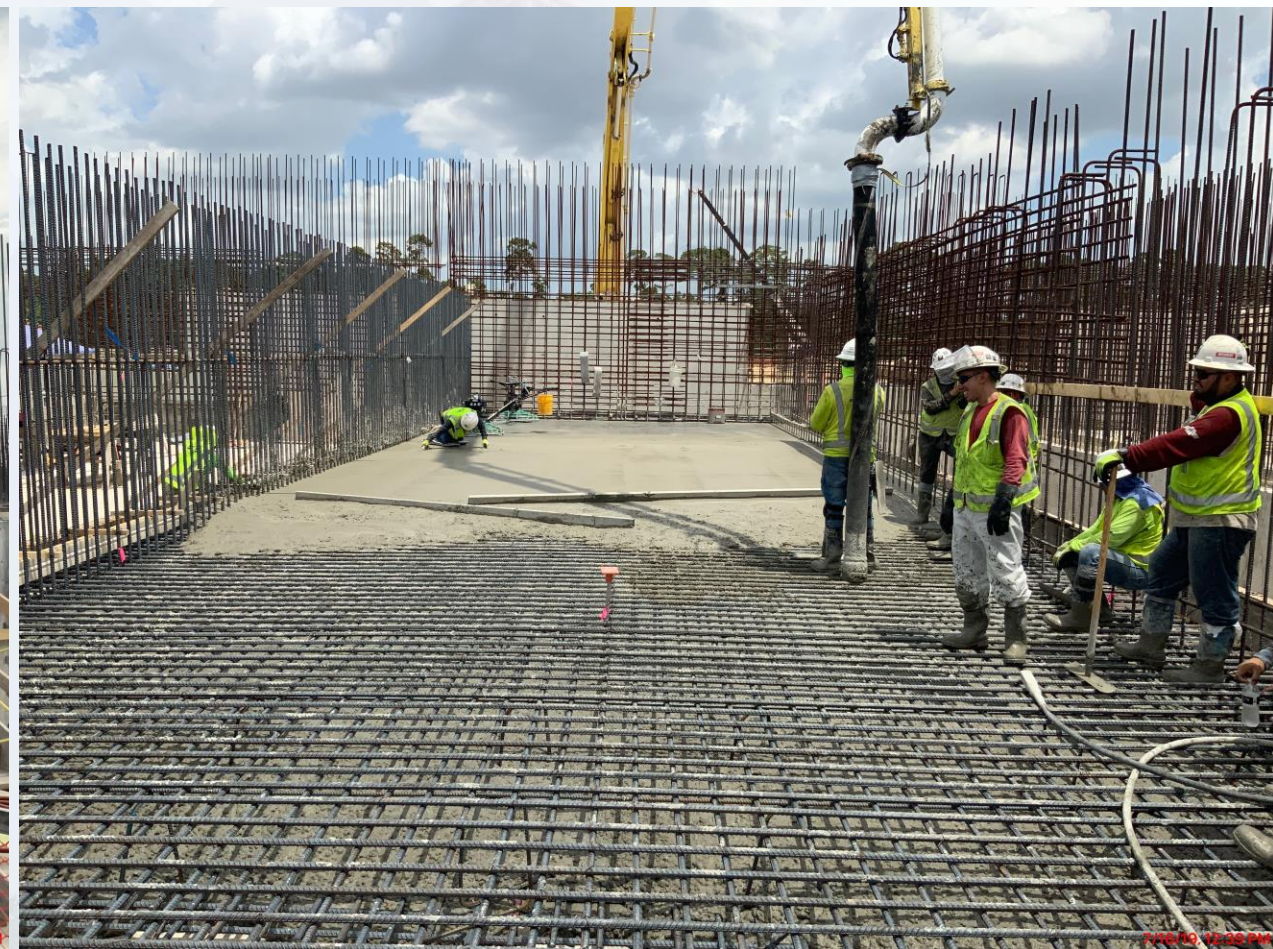
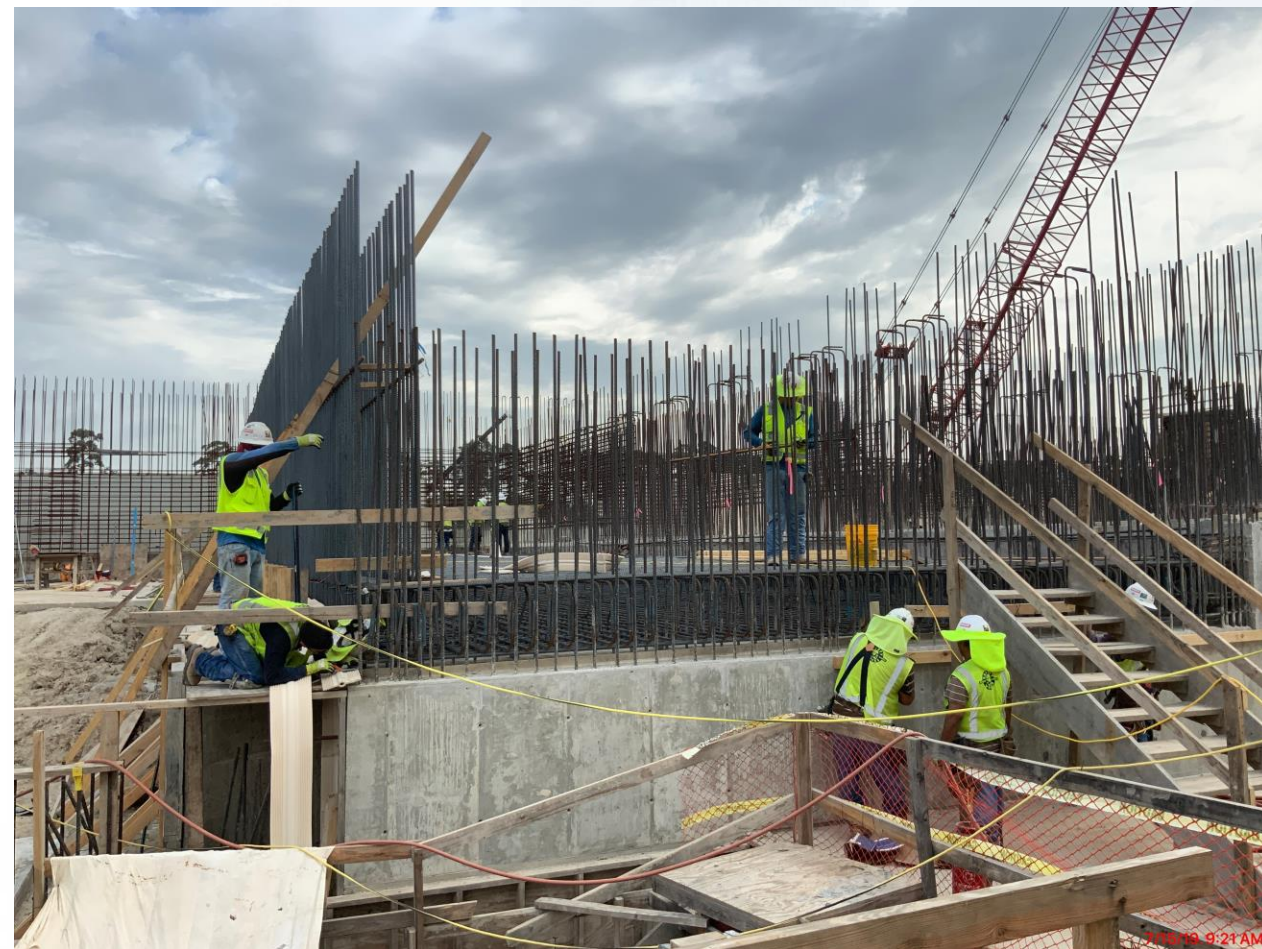
- **Reinforcing/Pouring Filter Slab 7**
- **Tying Interior Wall Rebar.**
- **Reinforcing/Pouring exterior walls.**
- **Shoring for Lower Manifold Deck.**
- **Welding 72" BWW & Pouring West Pipe Encasement ( Section 1-Lift 1)**

## **TPS:**

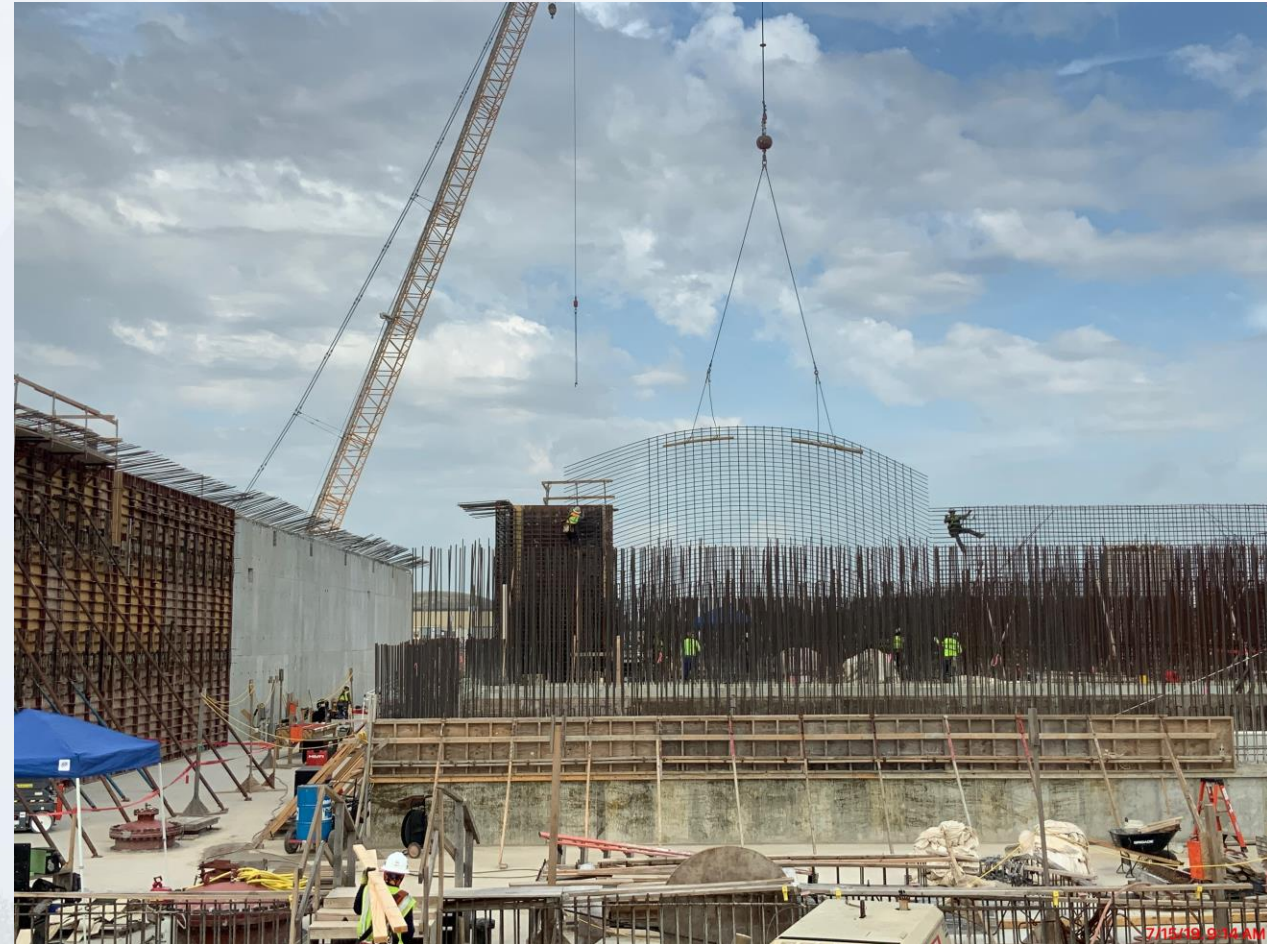
- **Reinforcement and Form up Walls A4**
- **Strip Forms at Wall A2**
- **Assemble Exterior 84" BFs and spool pipes**



# FILTER STRUCTURE- Reinforcing/ Pouring Filter 7 Slab



# FILTER STRUCTURE- Tying Interior Wall Rebar

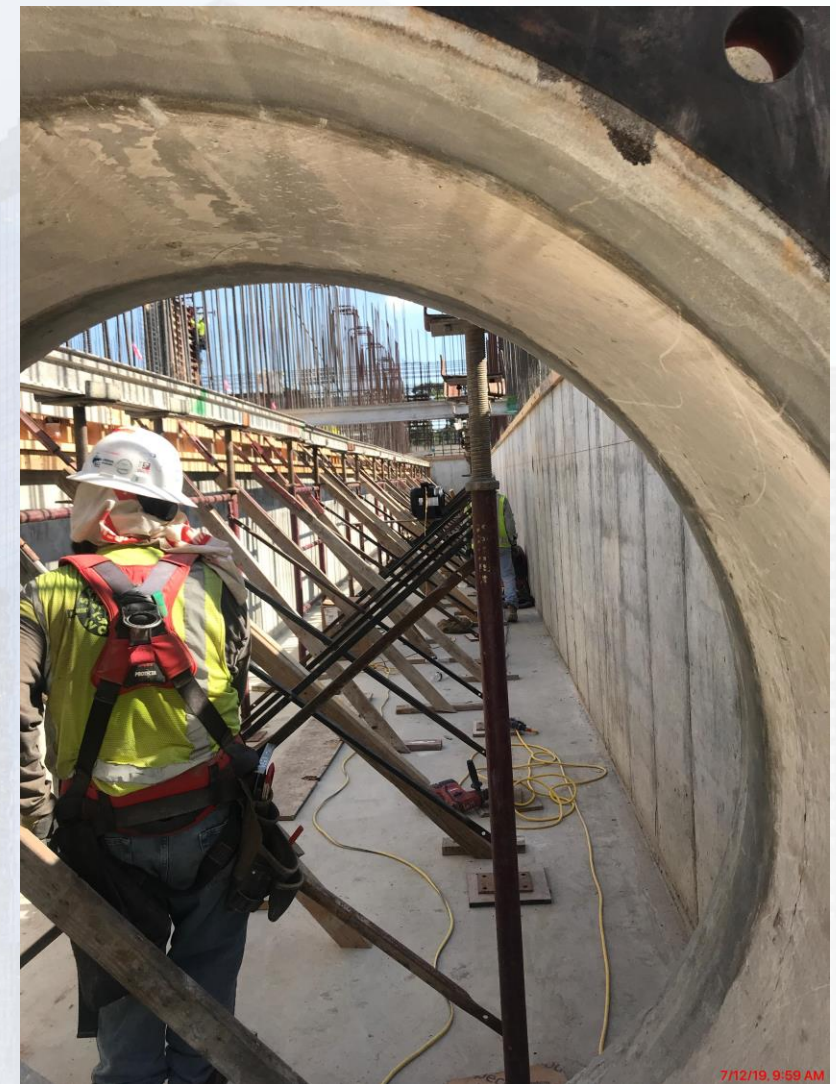




# FILTER STRUCTURE- Reinforcing / Pouring Exterior Walls



# FILTER STRUCTURE- Shoring For Lower Manifold Decks



# FILTER STRUCTURE- Welding 72" BWW & Pouring West Pipe Encasement (Lift 1)



# TPS –Reinforcement and Forming of Wall A4



# TPS – Strip Forms at Wall A2



# TPS – Assemble Exterior 84" BFVs and Spool Pipes





# Construction Progress – EWP 6 North Plant

- **242 Concrete Foundation and sump rebar reinforcement**
- **Set formwork and install rebar for 241 Sump**
- **Form and Pour 242 Overflow Sump**
- **Excavate 611 Cross Collector**



# 241 Back fill up to sump foundation

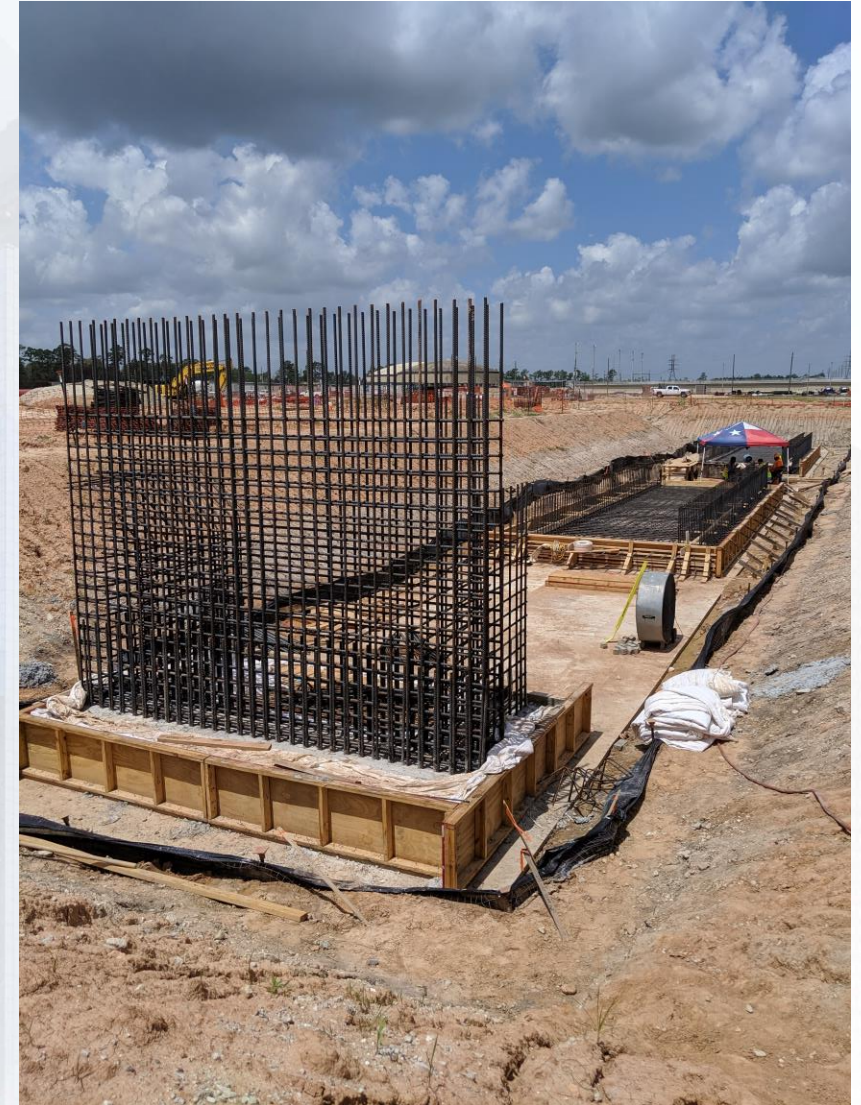




# 611 Cross Collector Rebar reinforcement



# 242 Rebar reinforcement



# 242 sump and rebar reinforcement



# East-West Corridor Ductile Iron Piping Excavation





# Construction Progress – EWP 6 IPS

- **Driving Piles**



# Pile Driving Activity



Houston Waterworks Team





# Construction Progress – EWP 6 Substation Facility 102

- **Removal of existing black fencing**
- **Scarify and compact the subgrade**

# Removal of existing black fencing





# Scarify and compact the subgrade

