



CITY OF HOUSTON
Houston Public Works

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

Houston Waterworks Team





Construction Progress – EWP 1 Site Development

June 26, 2019

- **Placed asphalt on truck wheel wash ramps**
- **Poured concrete around bolt on tapping saddles**
- **Hot tapped 30in Finished Water Mains (FWM)**
- **Installed Knife gate valves and Line stop housings to prepare for bypass operation**
- **Installed by-pass piping, and bolted up to line stop housing**
- **Temporary power installation T211 North Plant**



Drone map view of site June 24, 2019



Placed asphalt on wheel wash ramps



2019 06 24

Hot Tapping 30in FWM for bypass operation



24in Coupon cut out of 30in FWM



Installed line stop housings at each side of tie-in locations



Bolted by-pass piping to line stop housing at East tie-in location



Bolted by-pass piping to line stop housing at West tie-in location



North Plant Temporary Power T211 NW





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**



Placing CLSM and Grouting



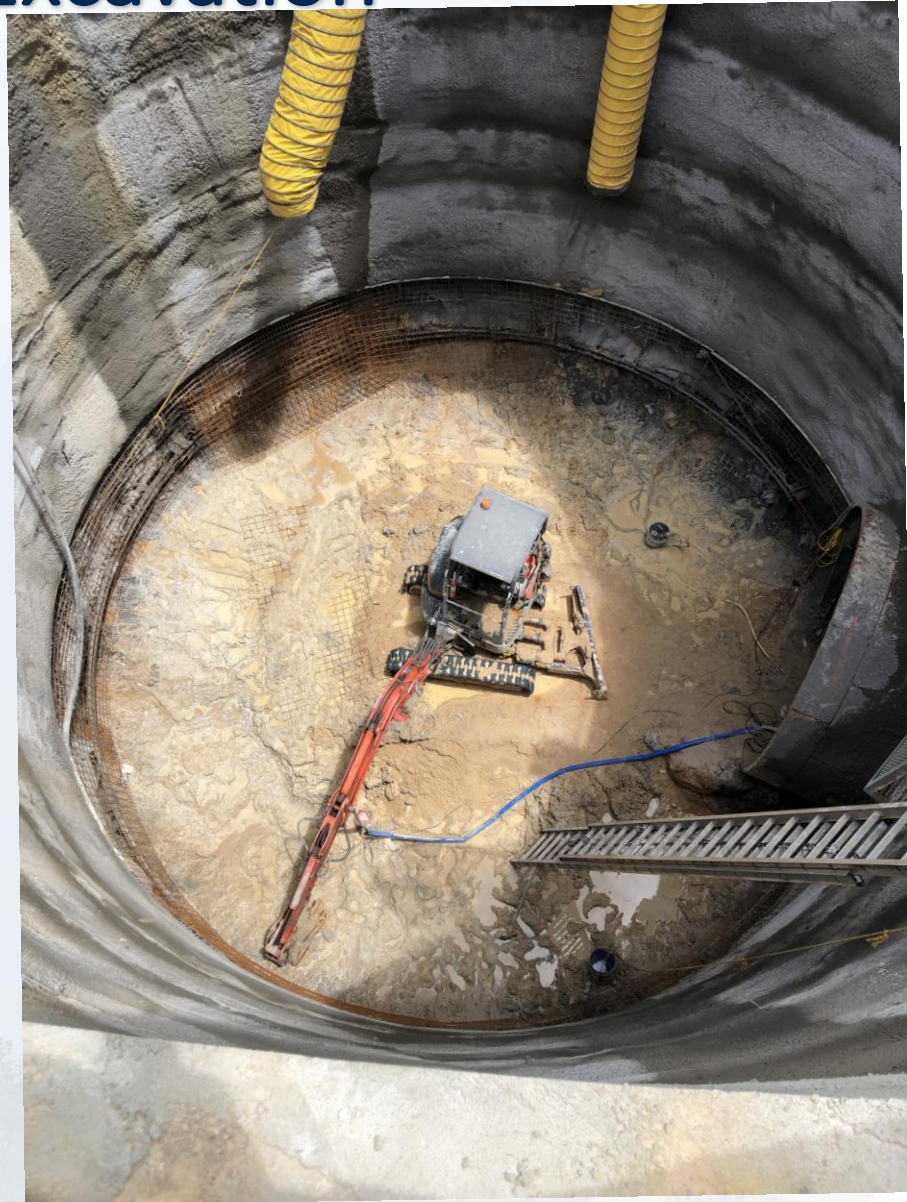
Pipe Installation in East Corridor



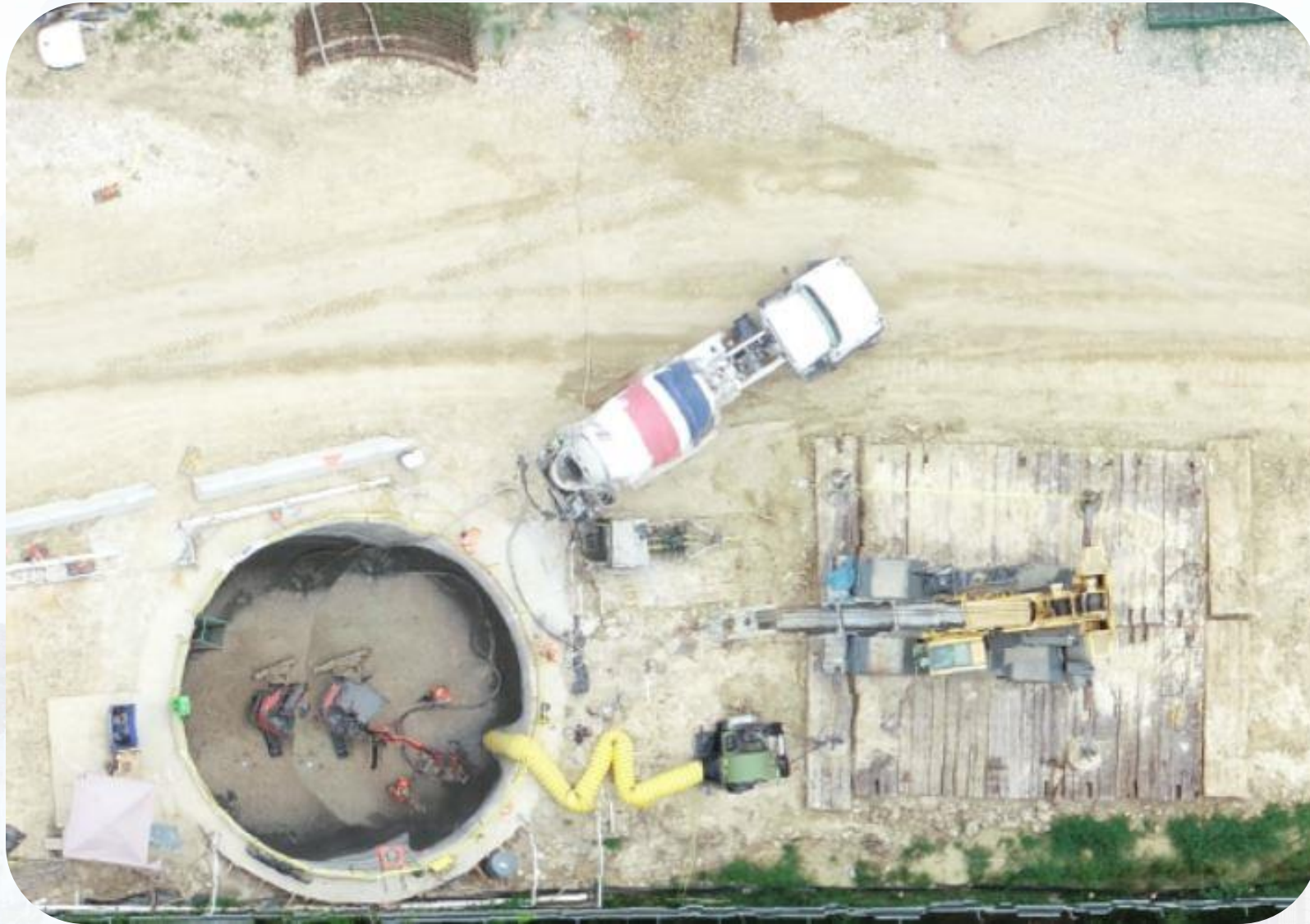
Drone map view of 108in RW trench June 11, 2019



Exit Shaft Excavation



Drone map view of Exit Shaft June 11, 2019





Construction Progress – EWP 2 Filter Structure & TPS

FILTER STRUCTURE:

- **Backfilling for Filter Slabs 12 & 7**
- **Tying rebar for Filter Slabs 10 & 8/9(South).**
- **Forming/Reinforcing exterior walls.**

TPS:

- **Poured BW4 Wall.**
- **Reinforcement and Form up Wall A2**
- **Strip Forms walls BW3 and C4**



FILTER STRUCTURE- Backfilling For Filter Slabs 7 & 12



FILTER STRUCTURE- Tying rebar for Filter Slabs 10 & 8/9(South)



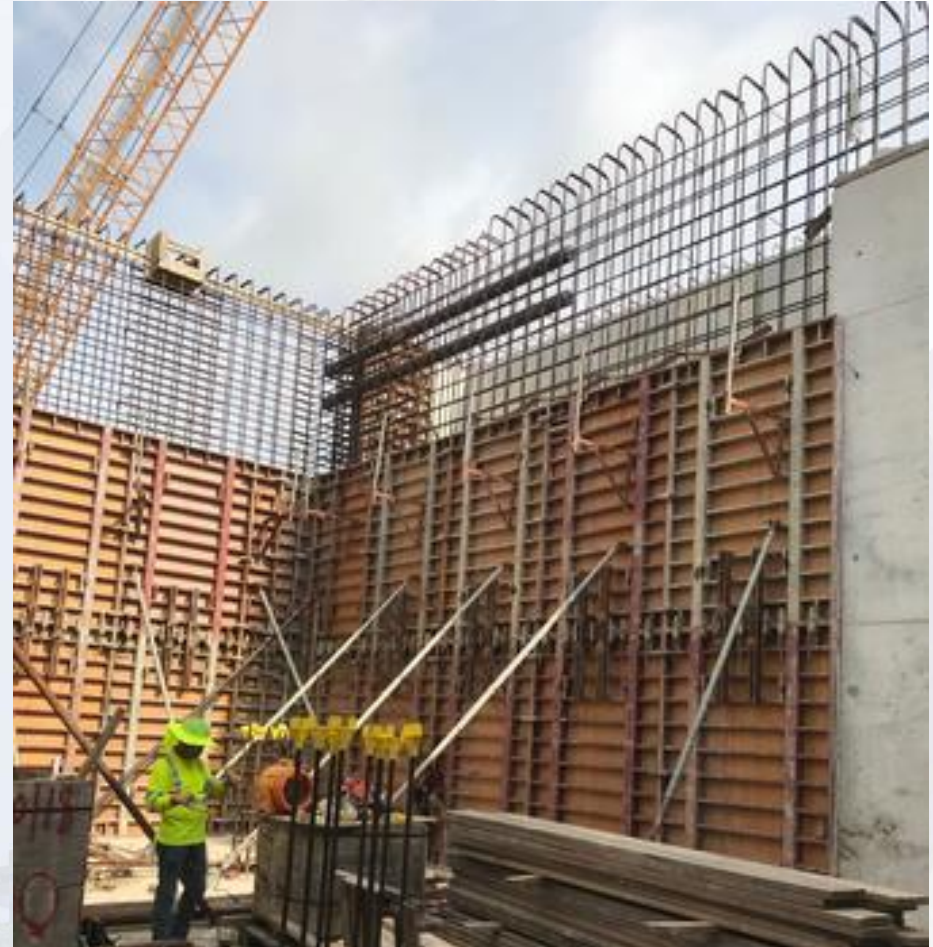
FILTER STRUCTURE- Forming/Reinforcing Exterior Walls



TPS- Pouring Concrete BW4 Wall



TPS – Wall A2 Reinforcement and Form-up



TPS – Walls BW3 and C4 Strip Forms



Drone map view of Filter and TPS June 24, 2019





Construction Progress – EWP 6 North Plant

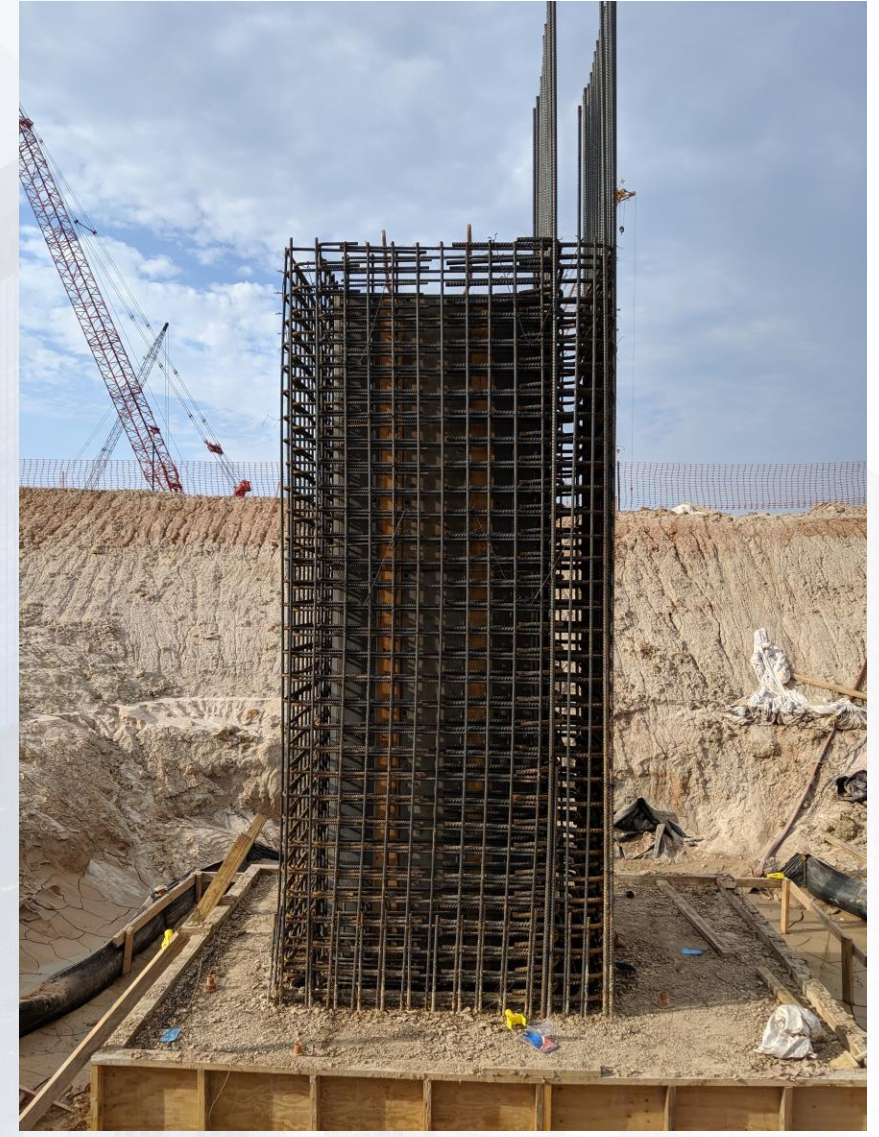
- **242 Concrete Foundation and sump rebar reinforcement**
- **Set formwork and install rebar for 241 Sump**
- **Form and Pour 242 Overflow Sump**
- **Excavate 611 Cross Collector**



Drone map view of North Plant June 1, 2019



241 Rebar Placement



611 Cross Collector Excavation



242 Concrete Foundation and rebar reinforcement



242 Concrete Foundation, sump and rebar reinforcement



242 Ductile Iron Pipe Delivery



6/4/19, 8:23 AM



Construction Progress – EWP 6 IPS

- **Driving Piles**



Pile Driving Activity

