



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 10, 2019

- **Installing Knife gate valves and Line stop housings for bypass operation**
- **Bolting up by-pass piping to line stop housing**
- **Temporary power installation T211 North Plant**



Installing line stop housings and bolting bypass piping at West side of tie-in location



Installing line stop housings and bolting bypass piping at East side of tie-in location





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**



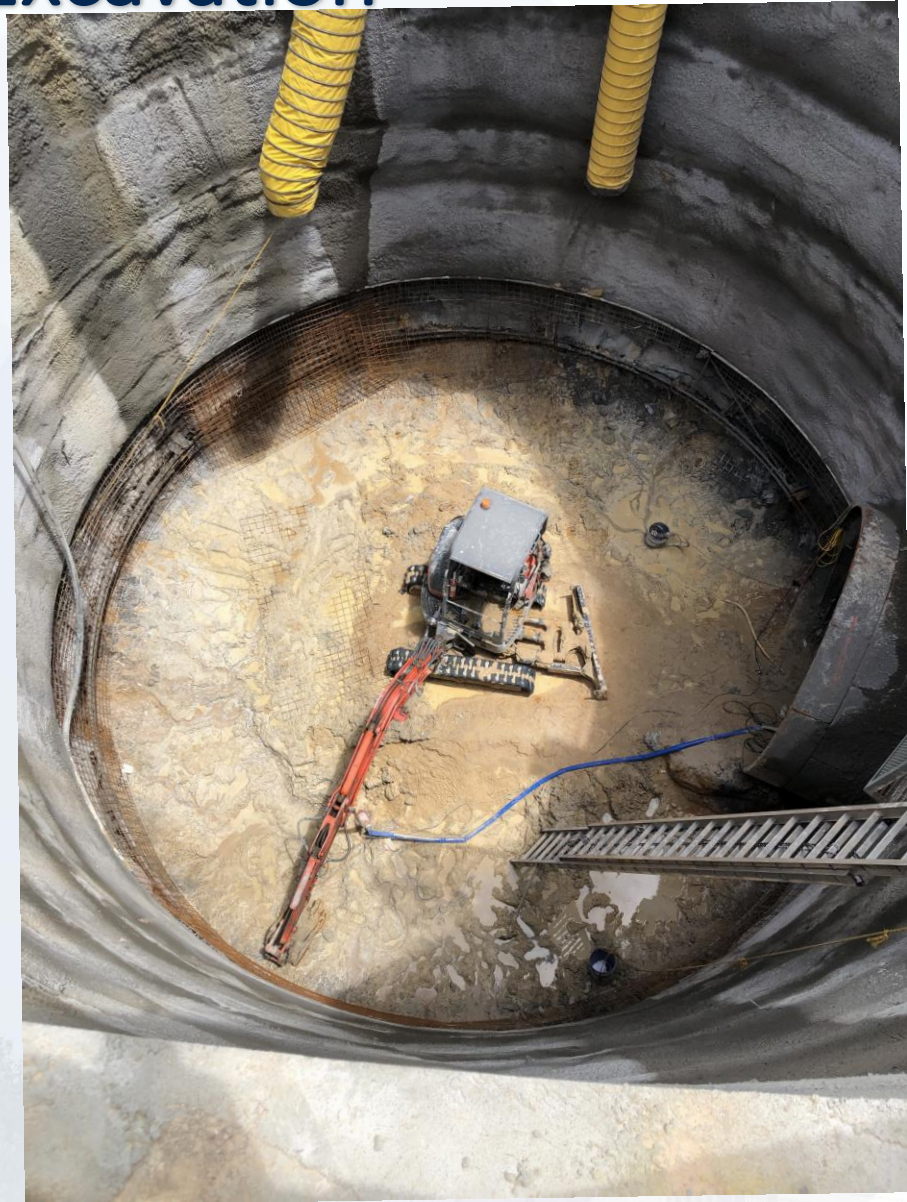
Placing CLSM and Grouting



Pipe Installation in East Corridor



Exit Shaft Excavation





Construction Progress – EWP 2 Filter Structure & TPS

FILTER STRUCTURE:

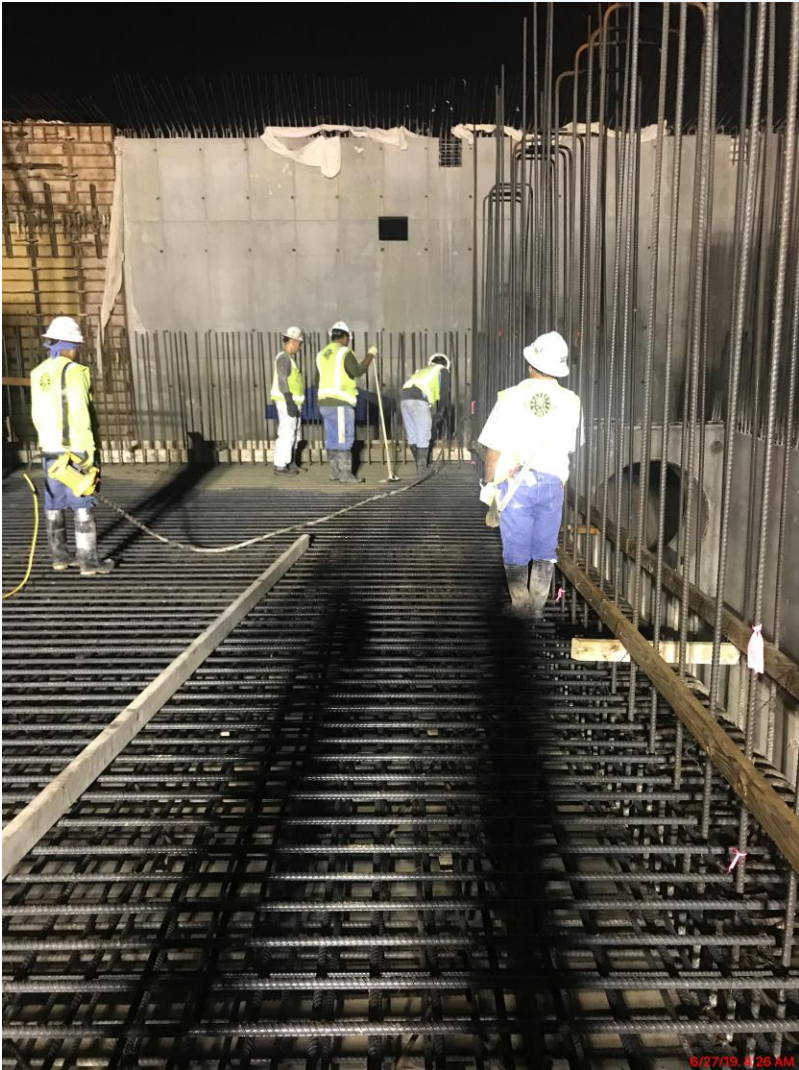
- **Pouring Filter Slabs 10 & 8/9(South).**
- **Tying Interior Wall Rebar.**
- **Tying/Forming exterior walls.**
- **Tying/Pouring Base Slab D2.1A**

TPS:

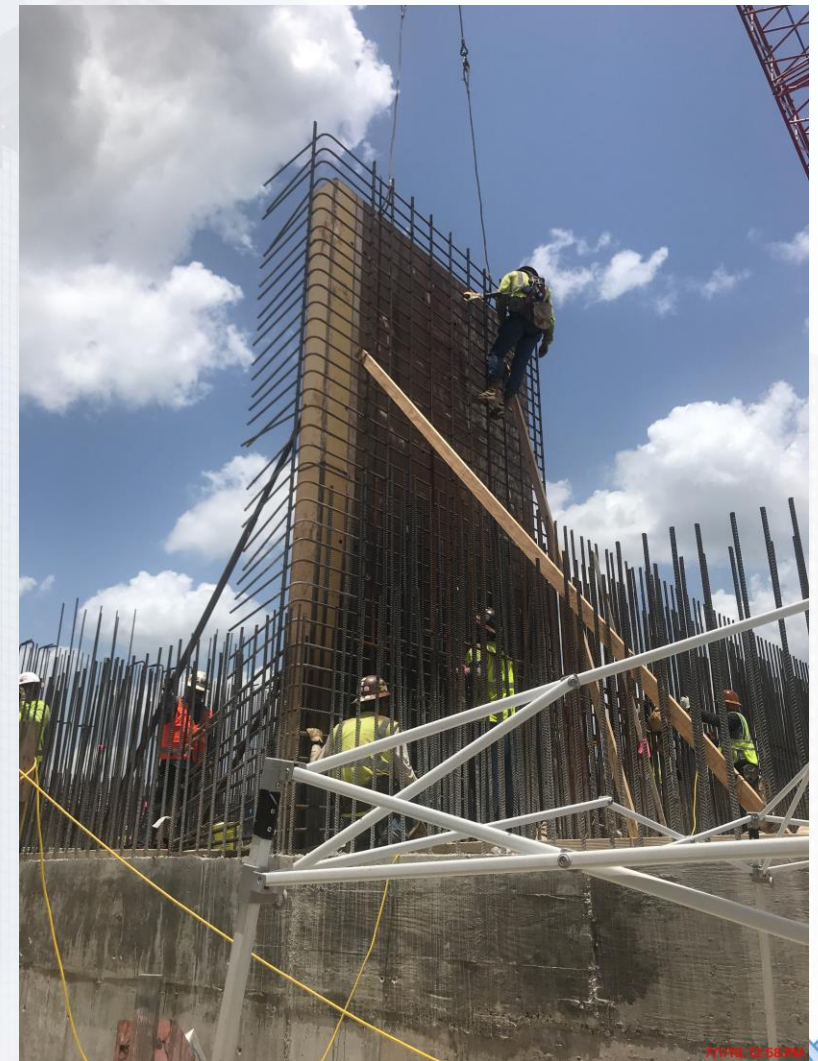
- **Poured Walls A2 and C6.**
- **Reinforcement and Form up Walls A2 and C6**
- **Strip Forms Wall BW4**



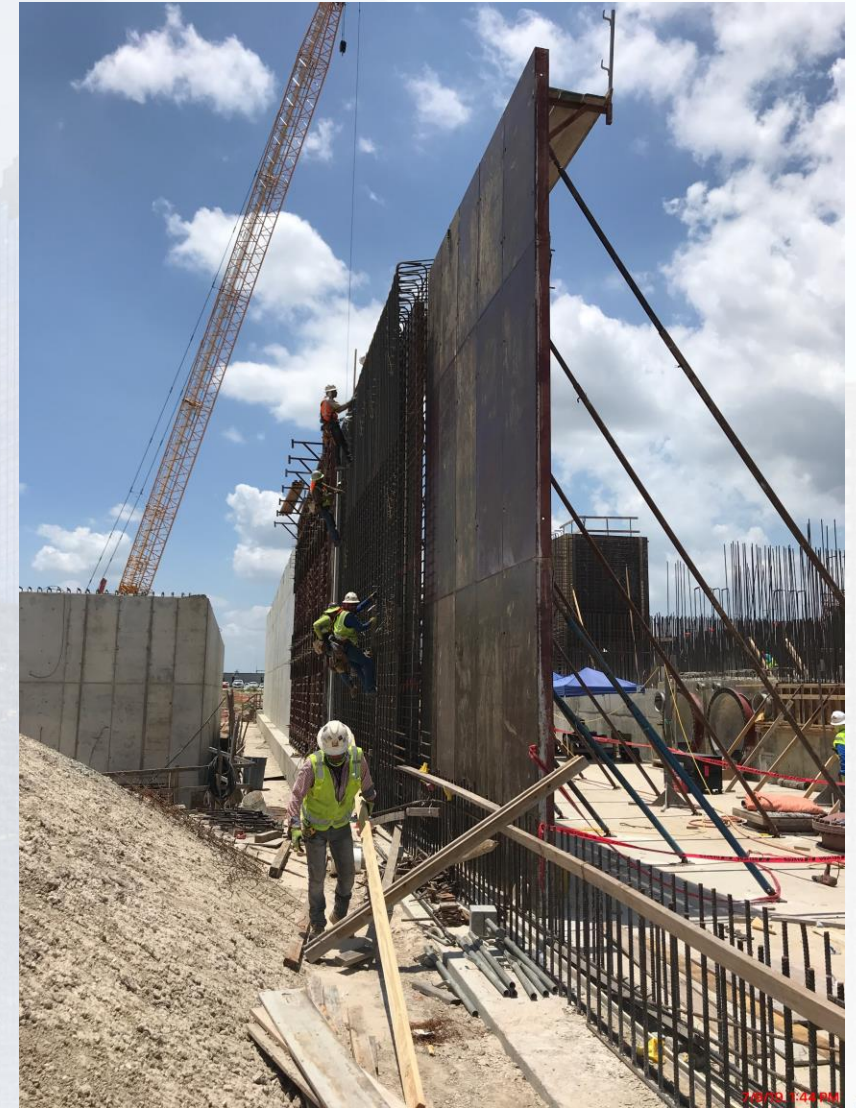
FILTER STRUCTURE- Pouring Filter Slabs 10 & 8/9(South)



FILTER STRUCTURE- Tying interior Wall Rebar



FILTER STRUCTURE- Tying Rebar /Forming Exterior Walls



FILTER STRUCTURE- Tying/Pouring Base Slab D2.1A



TPS- Pouring Concrete Walls A2 and C6



TPS – Walls A2 and C6 - Reinforcement and Form-up



TPS – Wall BW4 Strip Forms





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 Concrete Pour



611 Cross Collector Excavation/ Mud Slab Preparation



242 Rebar reinforcement



242 sump and rebar reinforcement



East-West Corridor Ductile Iron Piping Excavation



242 Ductile Iron Pipe Delivery



6/4/19, 8:23 AM

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Construction Progress – EWP 6 IPS

- **Driving Piles**



Pile Driving Activity



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Construction Progress – EWP 6 Substation Facility 102

- **Installation of Trench Plates and Safety Fencing**
- **Clearing and Grubbing the Site**



Installation of Trench Plates and Safety Fencing



Clearing and Grubbing the Site

