

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion





Construction Progress – EWP 1 Site Development Feb 6, 2019

- Excavating and laying 36in FW Pipeline
- Setting the FW Pipeline Manways and Manholes
- Embanking and grading South Areas E & F
- Stabilizing, laying fabric and flex base for Barnard Laydown area.
- Prepping road 1 for asphalt paving

Stabilizing/mixing subgrade for Barnard Laydown Pad





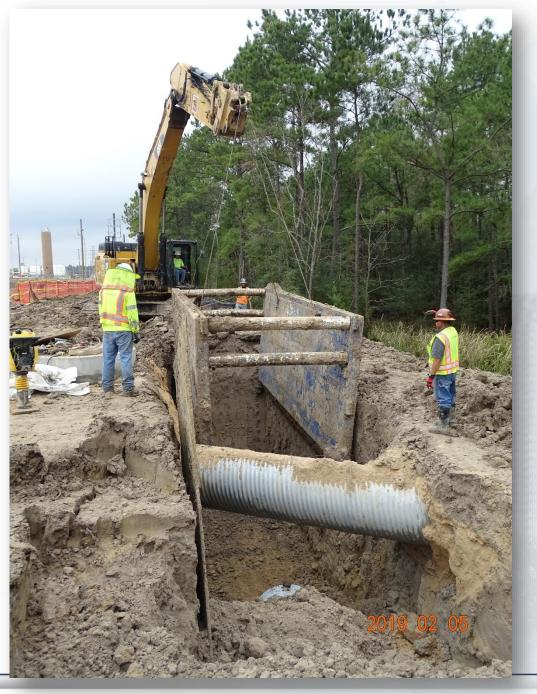


Filling and grading Areas E & F









Excavating & Installing 36in FW Pipeline



Houston Waterworks Team



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





Transporting 108in RW Pipe Joints





Excavating & Laying 108in RW Pipe







Tack welding 108in Pipe Joints



Grouting activities at pipe trench





Construction Progress – EWP 2 Filter Structure & TPS

FILTER STRUCTURE:

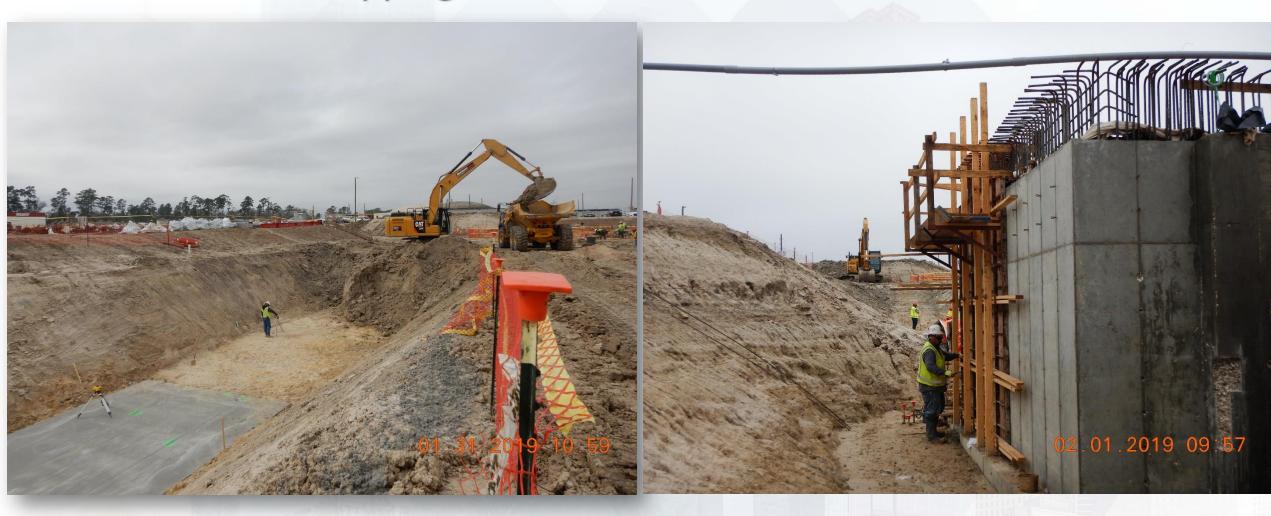
- Reinforcing/Forming walls
- Pouring walls
- Placing and aligning pipelines.
- Stripping forms and patching.
- Excavation and backfilling around structures

TPS:

Forming and reinforcing wall sections

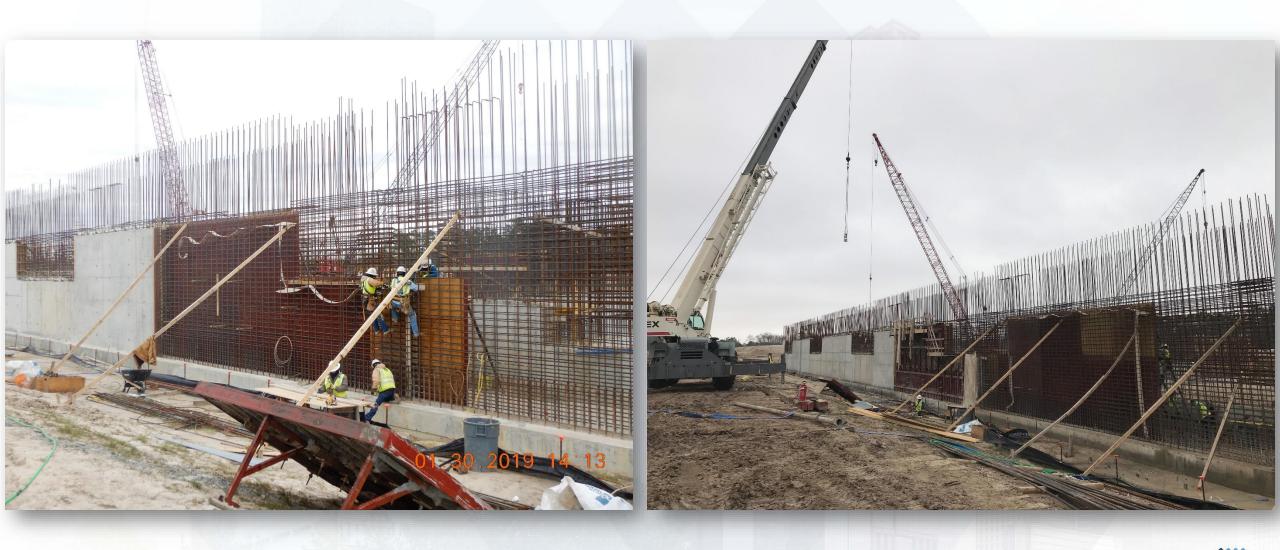


Mud mat for West Pipe Encasement, & Stripping forms from West IC Vault Walls





Installing water stop and reinforcing wall B4, First Lift



Repairing Pipe Coating, and Installing PVC Sanitary Drain Pipe







Pouring Pipe Bellies and Setting 36in FTW Spool at Bypass Vault

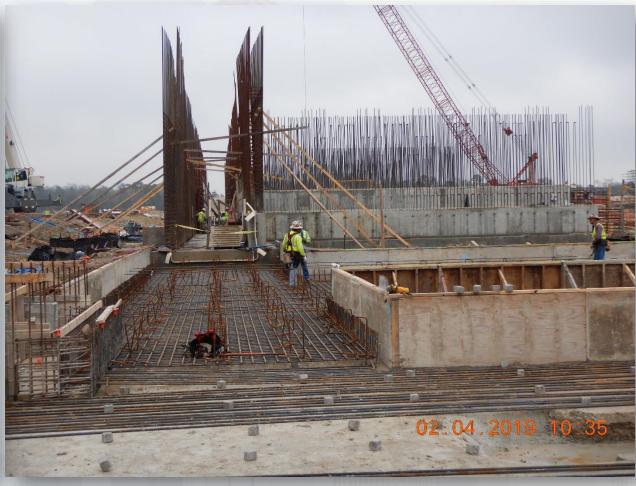






Tying rebar mats for A2A Foundation Slab

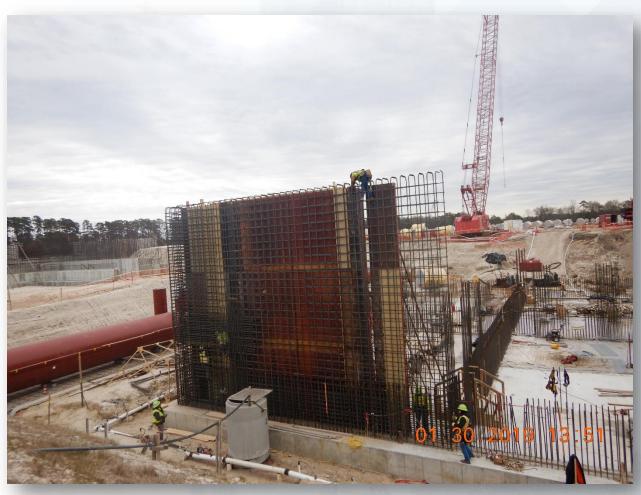








TPS Wall A1 Reinforcement









Forming TPS Wall A1



Forming TPS Wall A1



