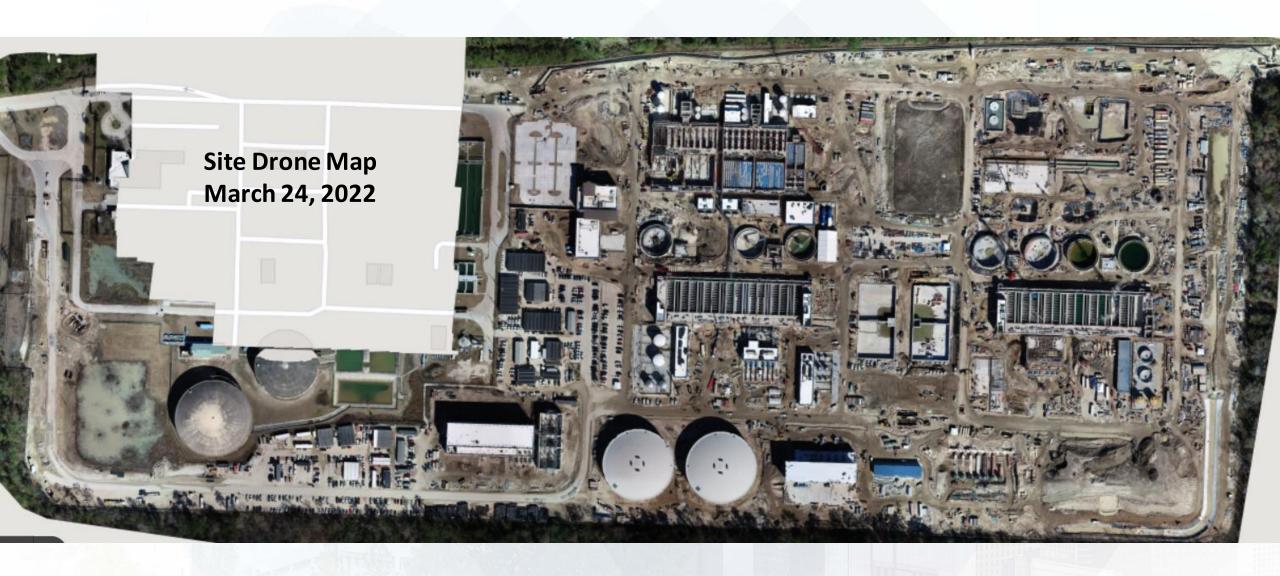


DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

April 6, 2022





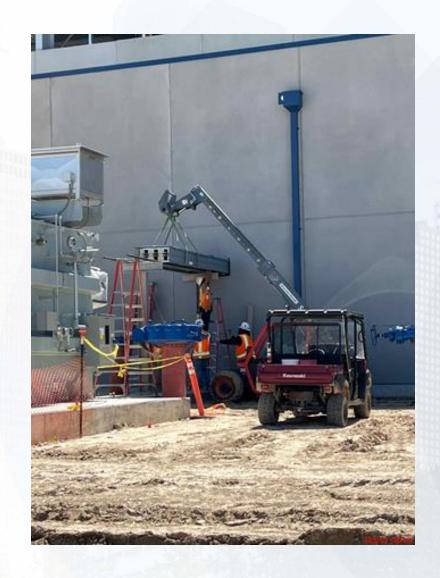


Construction Progress – Site Electrical

- Facility 401 Busduct being installed
- Pulling Wire to 242LCP31003
- BLTI Terminating 213 ASD's
- 801 Duct bank

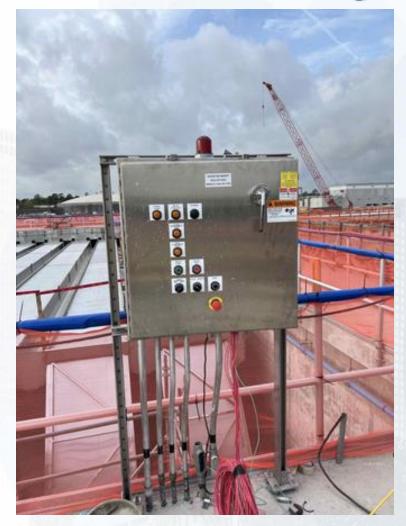


Facility 401 Busducts being installed



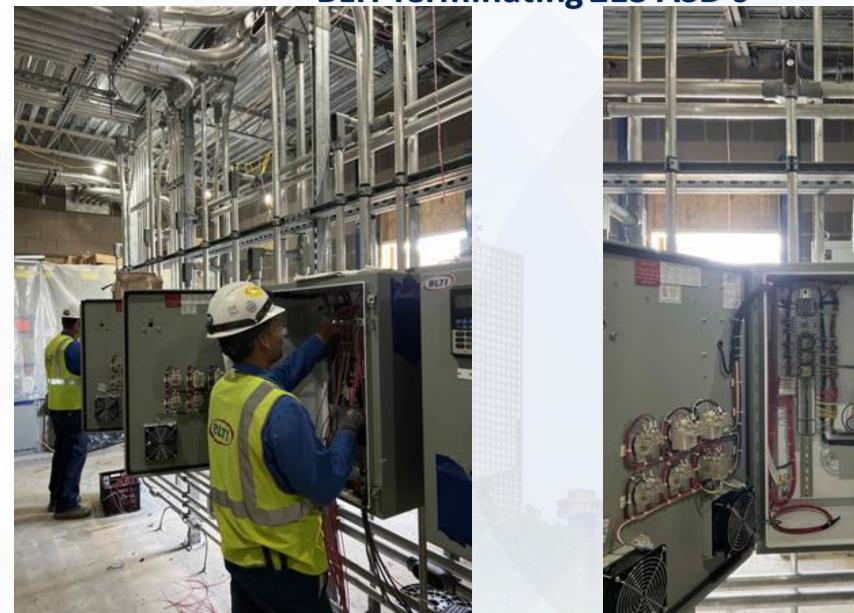


Pulling Wire to 242LCP31003



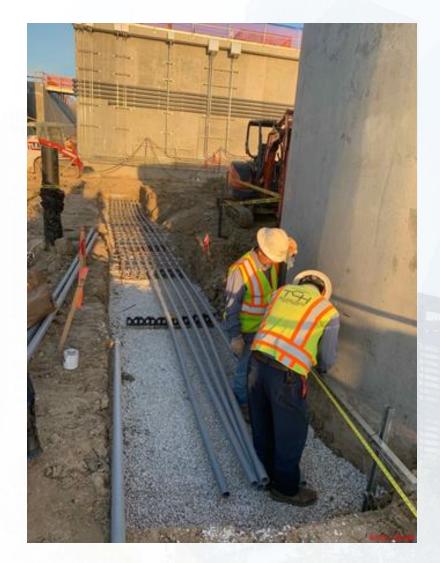


BLTI Terminating 213 ASD's

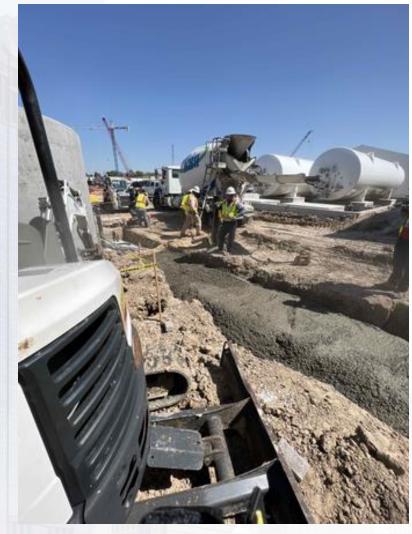




Facility 801 Duct bank





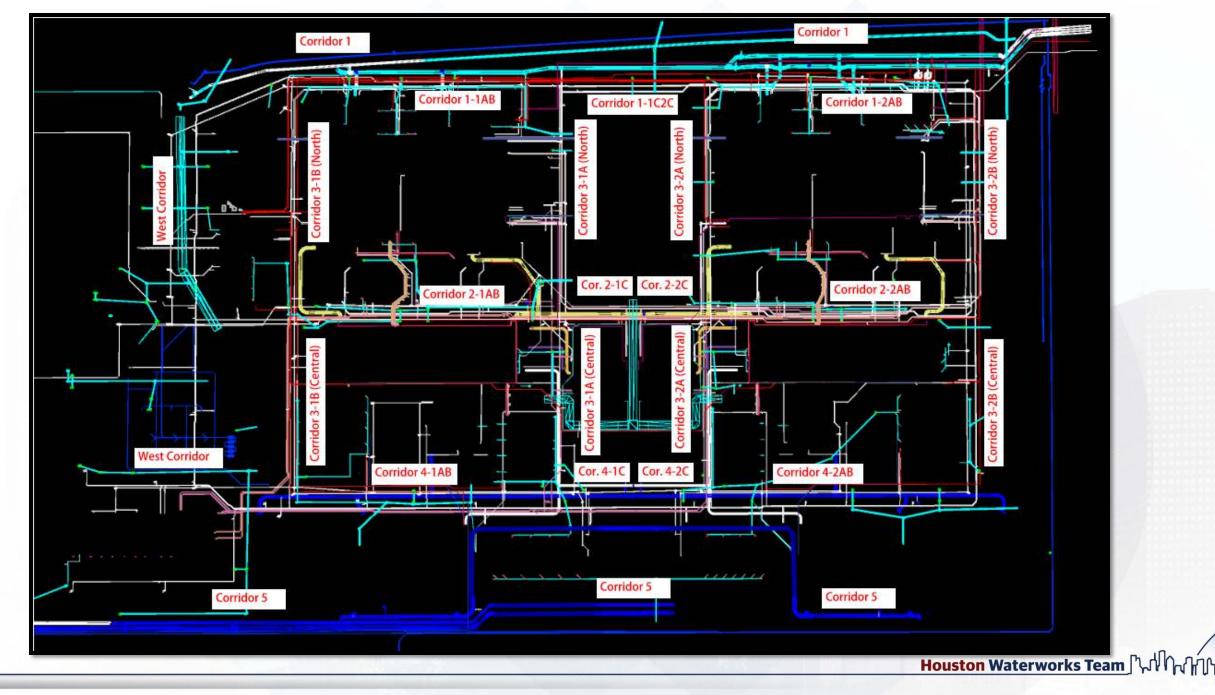




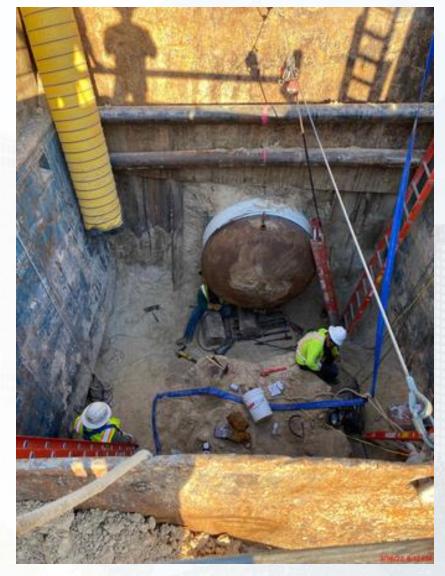


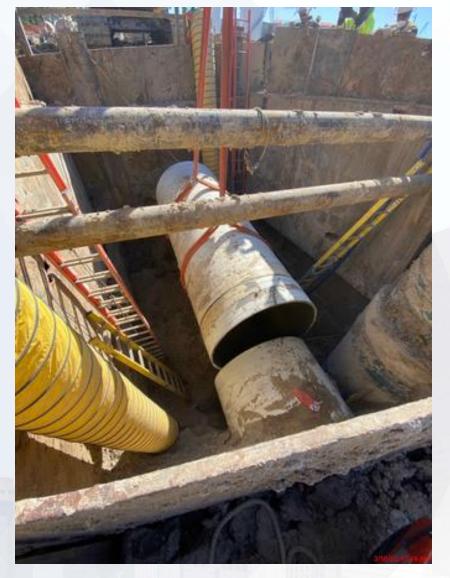
Construction Progress – Yard Piping

- Welding 66" dish head and removing a section of the 66" existing line
- West tie in location pipe plug and bypass piping
- 66" RW tie in location pipe plug and bypass piping
- Installing RCY meter vault slab
- Hydro excavation sinking of 704 pump station



Welding 66" dish head and removing a section of the 66" existing line



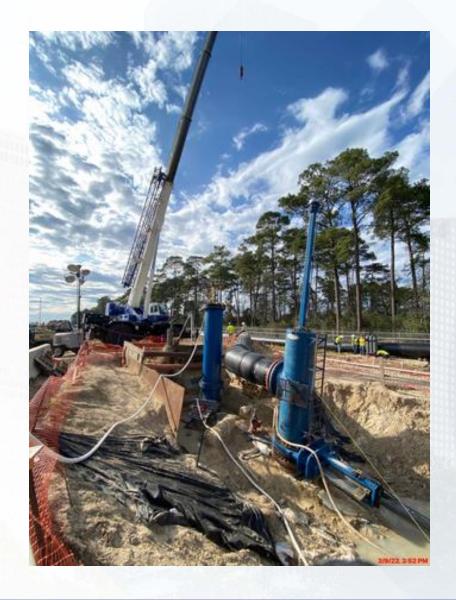


West tie in location pipe plug and bypass piping





66" RW tie in location pipe plug and bypass piping

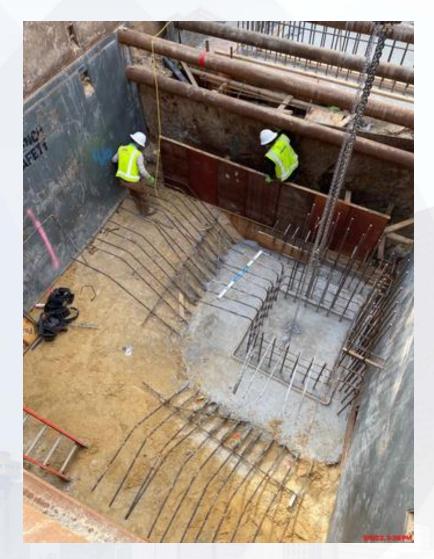






Installing RCY meter vault slab





Hydro excavation sinking of 704 pump station







Construction Progress – Central Plant 1

281-FILTER MODULE 1:

- Access Ramp Construction
- Double Contained Pipe Install

291-TRANSFER PUMP STATION 1:

- Install Corrugated Pipe.
- Install ¾" SA Line
- Install HVAC System in Mechanical Building

311 – POST CHEMICAL FACILITY SH/CS:

 Continue Installation of Process Mechanical piping

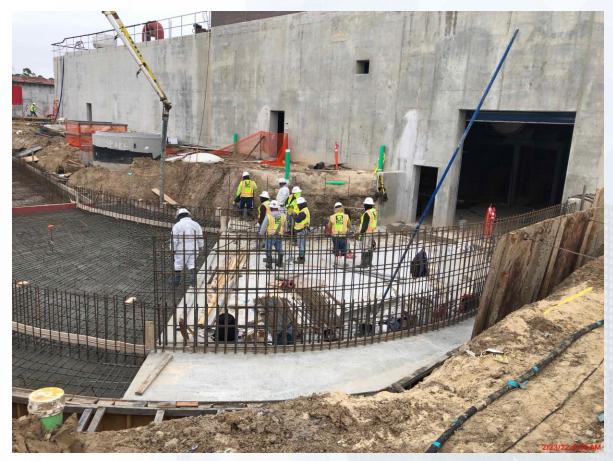
312 – POST CHEMICAL FACILITY FA/LAS/PEC/SB:

 Continue Installation of Process Mechanical Piping system.

CENTRAL PLANT- PHASE 1 OVERALL



281-FILTER MODULE- Access Ramp and Walls Construction





281-FILTER MODULE- Final Coating of Pipes

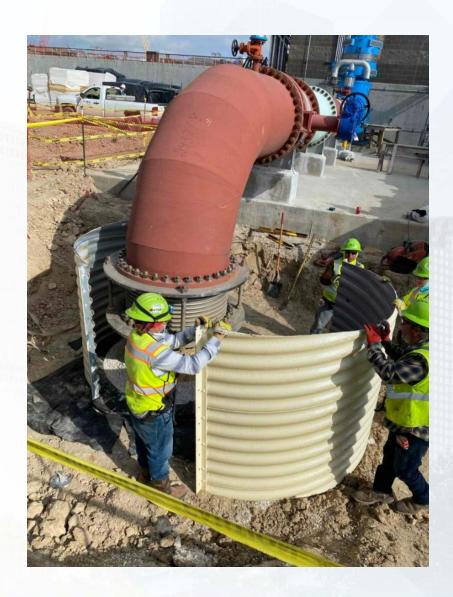


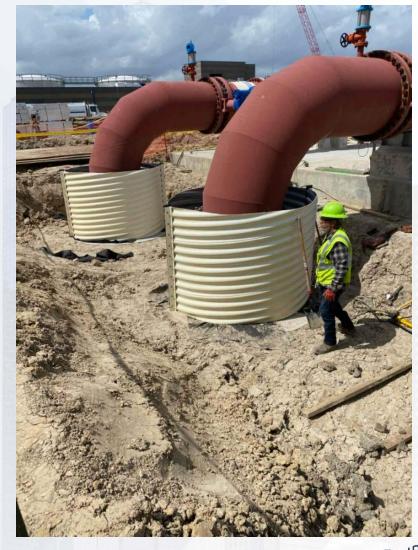


291-TPS - Aerial View (02/09/2022)



291-TPS - Install 34" SA Lines





291-TPS - Continue installation of Chem Lines

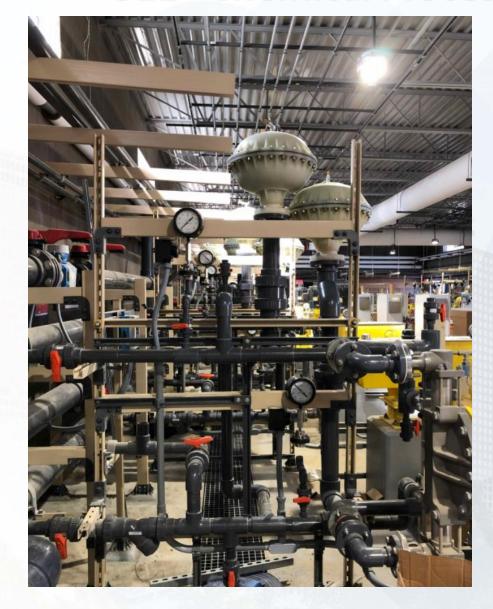


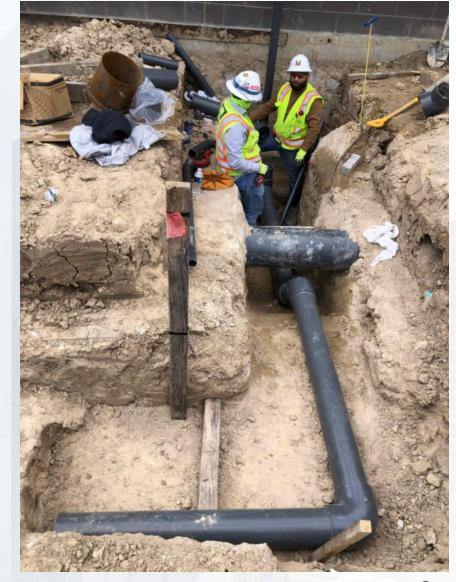


311 - Aerial view -02/09/2022



311 - Chemical Process Mechanical installation

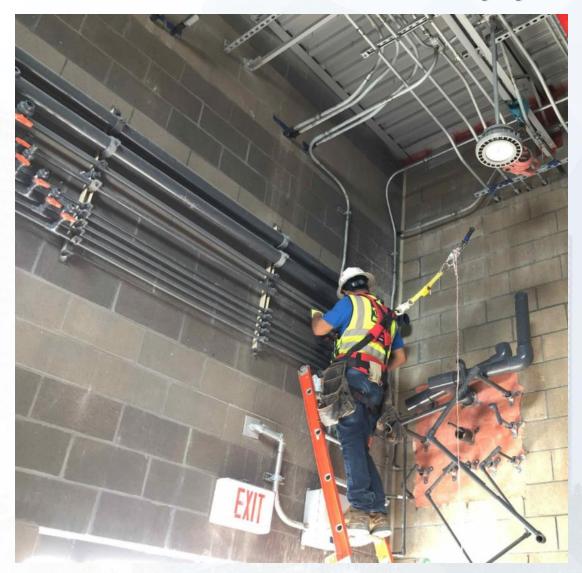


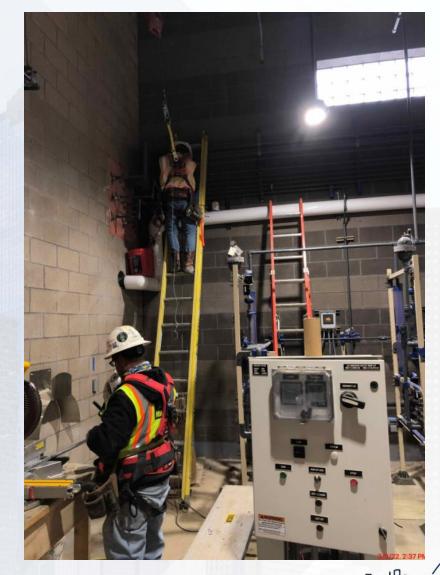


312 - Overall view 02/09/22

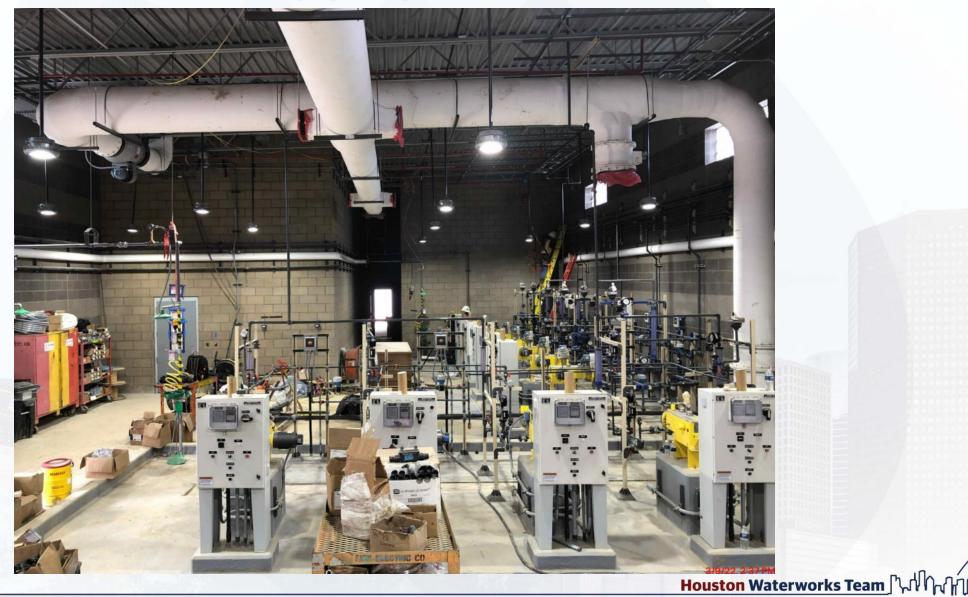


312 – Chem pipe system Installation





312 – Chem pipe system Installation





Construction Progress – Central Plant 2

- 282 -FILTER MODULE 2:
- Continuing Masonry & Steel Deck Install.
- Pipe installation

- 292-TRANSFER PUMP STATION 2:
- F/R/P Top decks, C6, B3 and B6
- F/R/P Top deck curbs

- 313 POST CHEMICAL FACILITY 3 FA/LAS/PEC/SB:
- F/R/P Slab on grade containment and bldg.
- CMU Block installation.
- 314 POST CHEMICAL FACILITY 4 SH/CS:
- Metal deck coating application
- Field installation of SH and CS Metal Tank.
- SH tank coating application

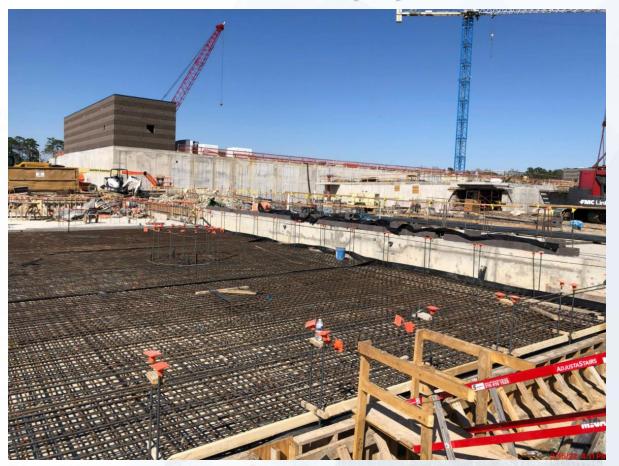
CENTRAL PLANT- Phase 2

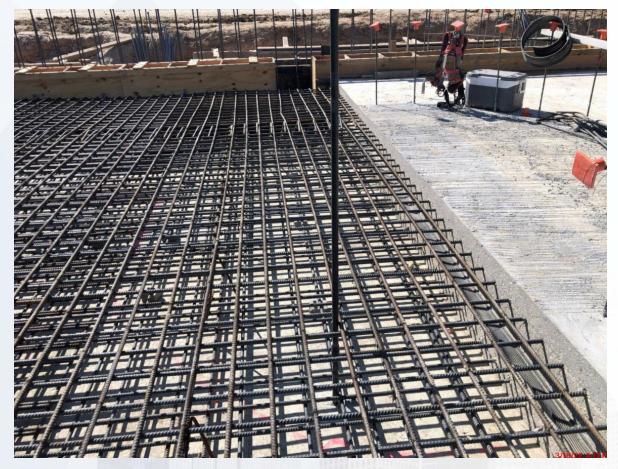


313- Overall view 02/09/22

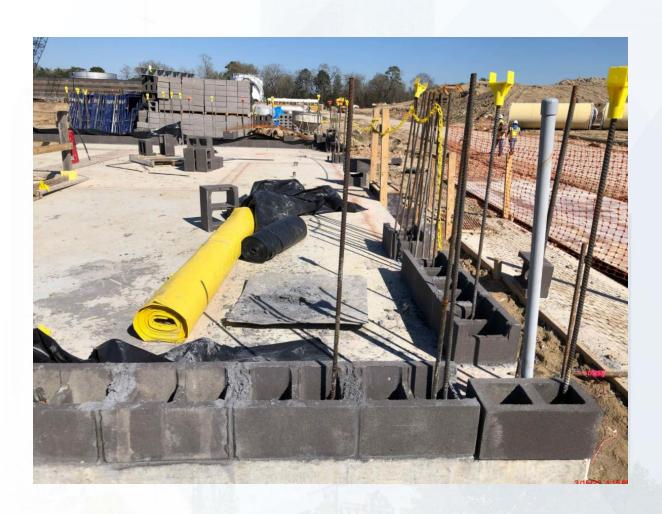


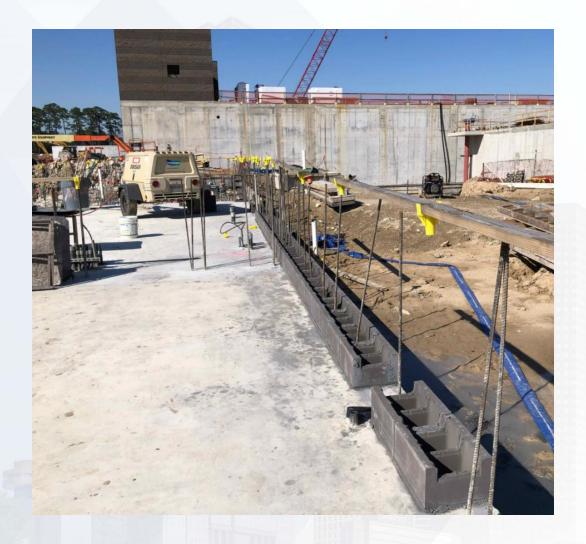
313 –F/R/P SOG Chem containment area.





313 -CMU block installation

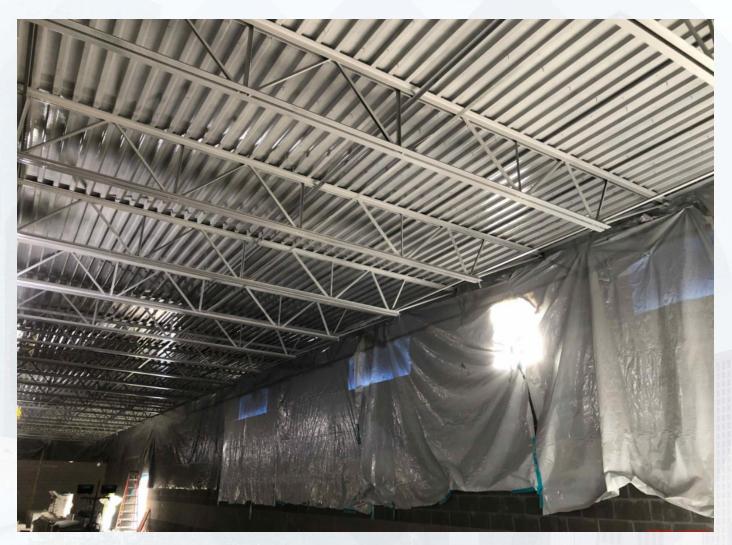




314- Aerial view 02/09/22



314 - Metal Coating application

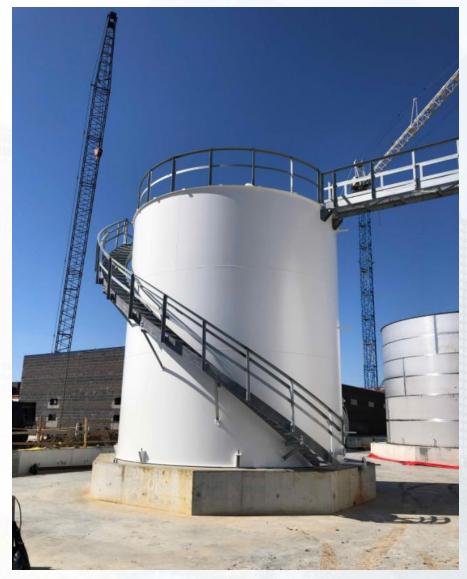


314 -SH and CS Steel tank fabrication





314 –SH Tank coating





282-FILTER MODULE 2- Pipe installation





282-FILTER MODULE 2- Masonry Structures

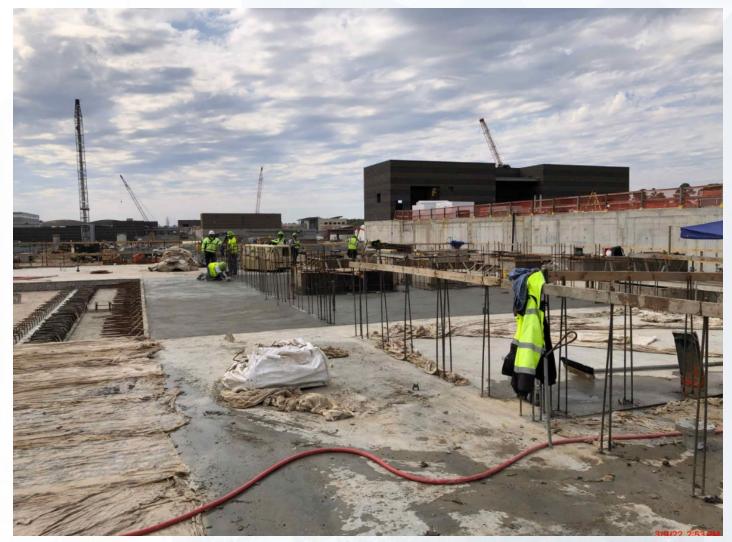


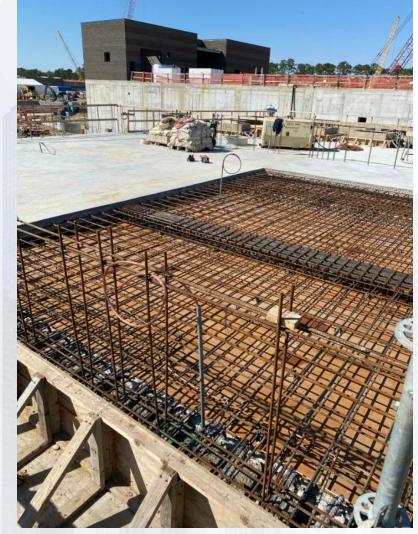


292-TPS - Aerial View (02-09-2022)

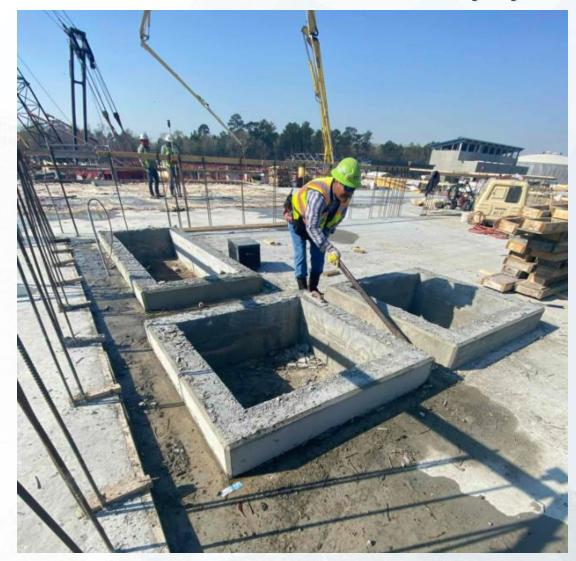


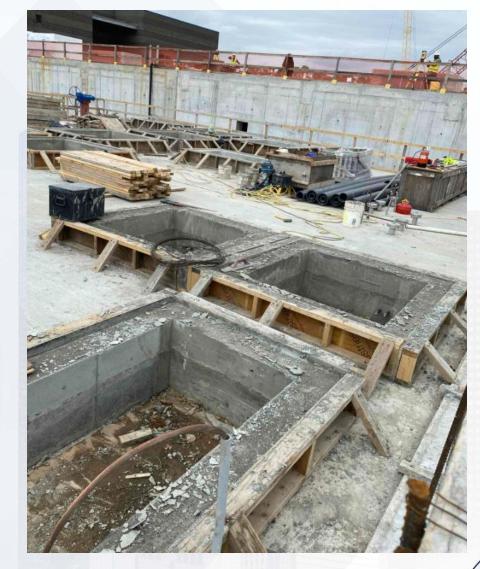
292-TPS – F/R/P Top Deck Sections C6, B3 and B6





292-TPS – F/R/P Concrete curbs







Construction Progress – LREQ Basins Facilities 601/602

- 601 SECO Install Duct Bank Ongoing
- 601/602 Install Storm Culvert
- 602 Interior Wall Finish Ongoing

601 - SECO Duct Bank Installation







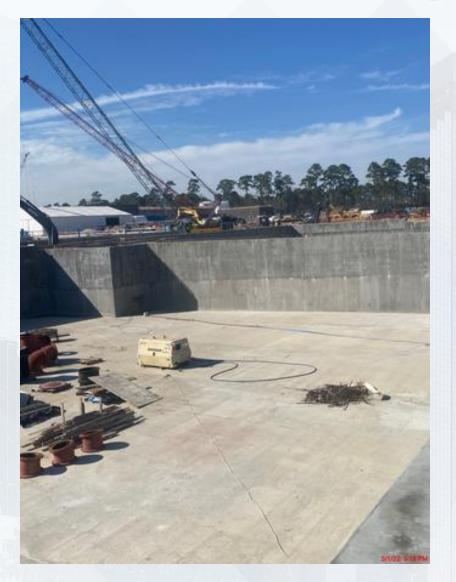
601/602 - Install Storm Culvert







602 - Interior Wall Finish - Ongoing



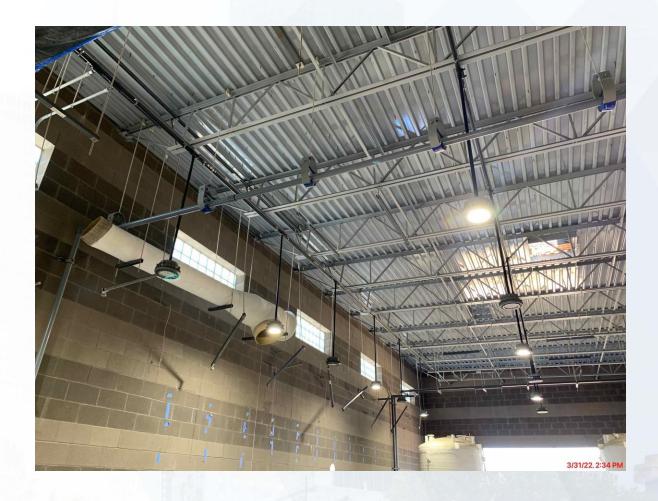


Construction Progress – North Plant

- 201-Chlorine Dioxide Facility 1:
- Permanent Lighting/Overhead door installation
- 211-Pretreatment Chemical Facility 1:
- Joist and Decking installation
- 213-Pretreatment Chemical Facility 3:
- Continued electrical work / Doors installation
- 214-Pretreatment Chemical Facility 4:
- Mechanical installation / Misc. Metals
- 222-Rapid Mix Train 2
- 6"x10" CS and 2"x4" PEC Pipe Installation
- 242-Flocculation & Sedimentation Train 2:
- Pulling cable to North Wall Pull Boxes

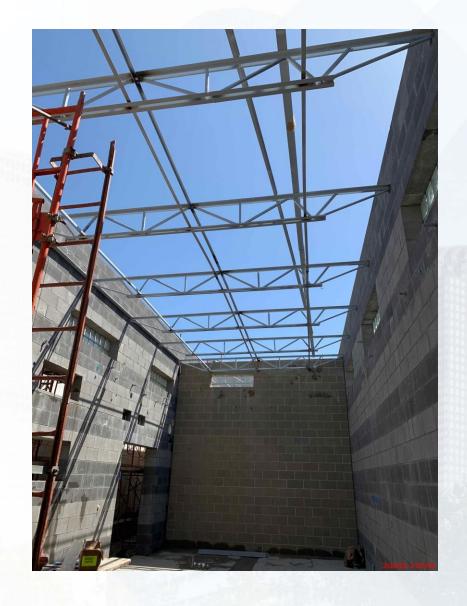
- 252-Ozone Contactor 2:
- Installation of West stairs and walkway
- 261-Ozone Generation Facility 1:
- Ongoing Pipe and electrical install
- 218-Pretreatment Chemical Facility 8:
- Continued rebar/concrete placement for slab
- 243-Flocculation & Sedimentation Train 3:
- Sed Basin 5 Walls F/R/P
- 244-Flocculation & Sedimentation Train 4:
- Slab(s) on Grade F/R/P
- 501-Gravity Sludge Thickener Complex 1:
- GT1 Weir Anchors

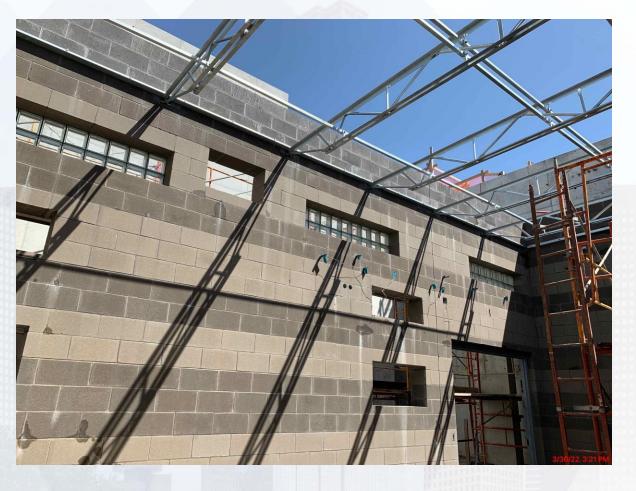
201-Chlorine Dioxide Facility 1: Permanent Lighting/Overhead door installation





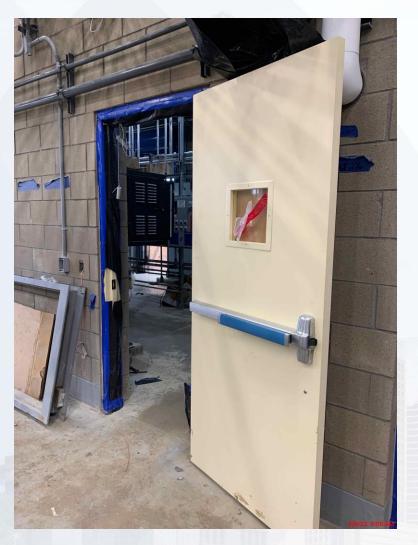
211-Pretreatment Chemical Facility 1: Joist and Decking installation





213-Pretreatment Chemical Facility 3: Continued electrical work / Doors installation





214-Pretreatment Chemical Facility 4: Continued Mechanical installation / Placement of stairs and handrails



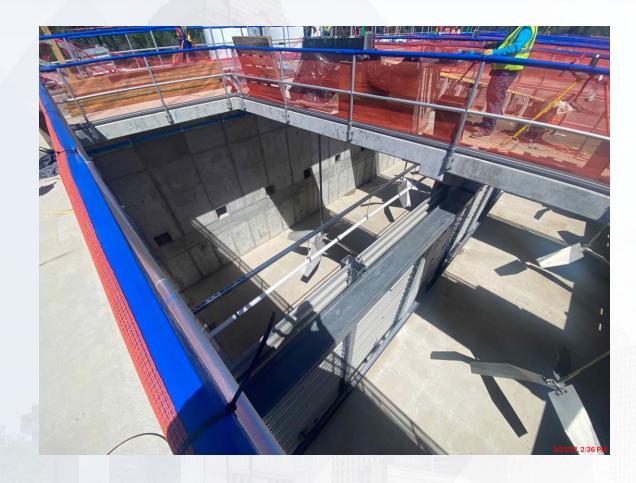


222-Rapid Mix Train 2: 6" X 10" CS and 2" X 4" PEC Pipe Installation

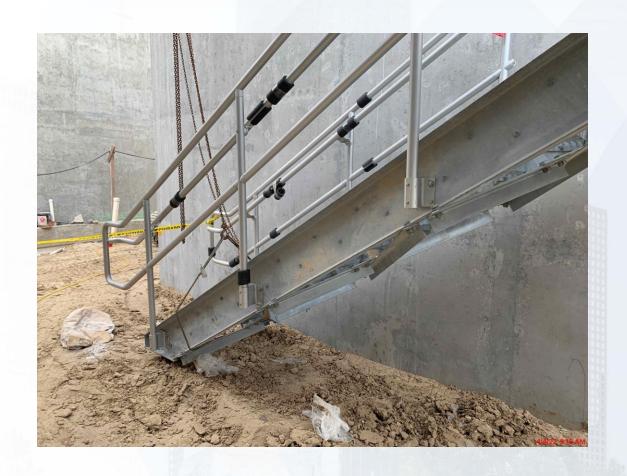


242-Flocculation & Sedimentation Train 2: Cable Pulling at North Wall Basin 4 & Continued Coating PVC Basin 3





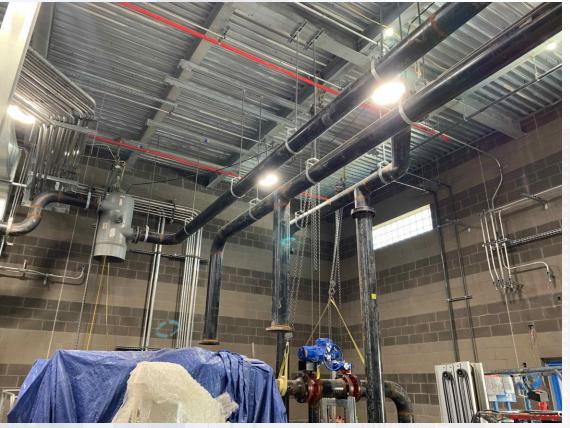
252-Ozone Contactor 2: Installation of West stairs and walkway





261-Ozone Generation Facility 1: Ongoing Pipe and electrical install





218 Pretreatment Chemical Facility 8: Continued rebar/concrete placement for slab



243-Flocculation & Sedimentation Train 3: Sed Basin 5 Walls F/R/P

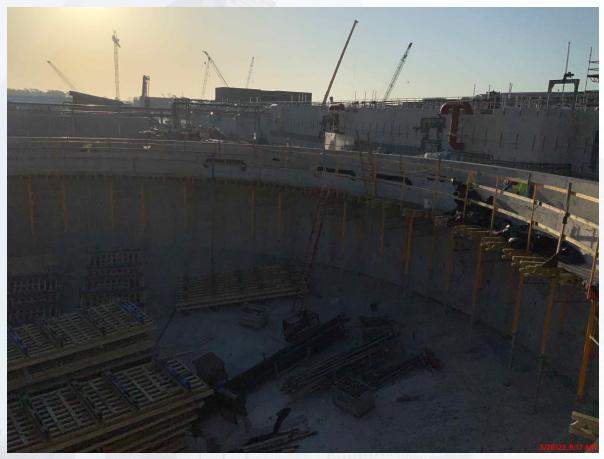


244-Flocculation & Sedimentation Train 4: Sed Basin 7 &8 Slab on Grade F/R/P



501-Gravity Sludge Thickener Complex 1: GT1 Setting Anchors for Decant Channel Weir







Construction Progress – South Plant

361 & 362:

Watertightness testing at GST 361.

111, 401, & 402:

- Continued installation of cold form metal framing at Fac 401.
- Continued installation of low roof coping / trim at Fac 401.
- Continued installation of insulated metal wall panels at Fac401.
- Continued installation of louvers and exhaust fans at Fac 401.
- Continued installation of instrument conduit at pumps at Fac 401.
- Continued pulling feeder and control cables to pumps at Fac 401.
- Continued installation of discharge piping #6 & #7 at Fac 401.
- Continued installation of FRP pipe support pedestals at Fac 401.
- Continued installation of buss duct in the Electrical Room at Fac 401.
- Continued installation of conduits in the Analyzer Room at Fac401.
- Continued backfilling at Fac 402.
- Continued top of pump can encasement repairs at Fac 402.

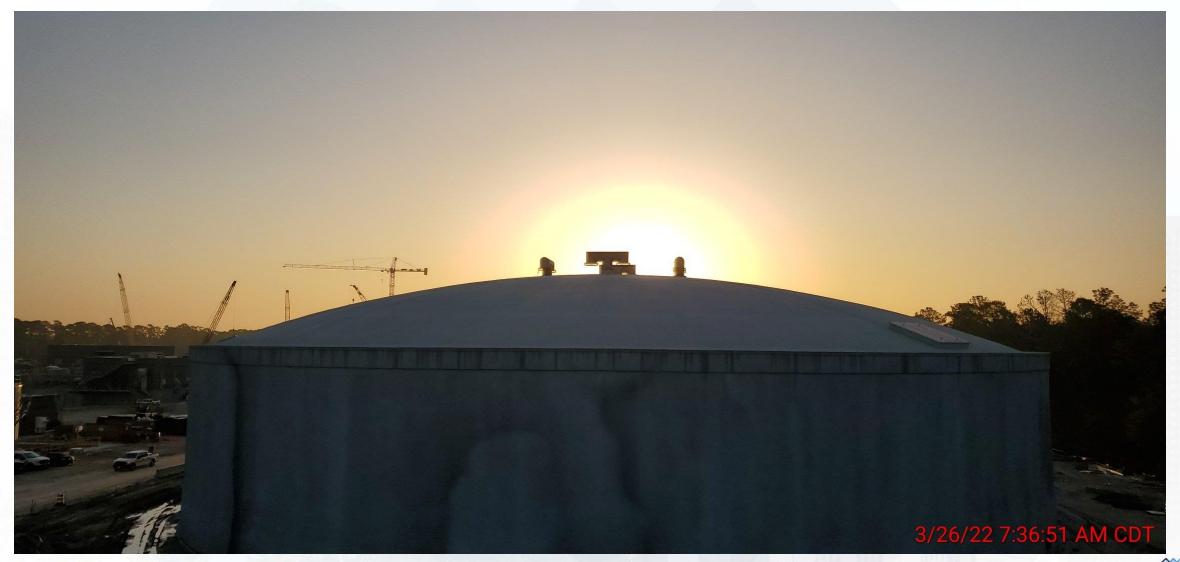
510 & 520:

- Continued installing plumbing, process pipe, and electrical conduit on levels 1, 2, and 3 at Fac 520.
- Continued wire pulling at Fac 520.
- Continued door and window frames installation at Fac 520.
- Continued bus duct installation at Fac 520.
- Continued mechanical coatings installation at Fac 520.
- Continued fire-resistant joint system installation at Fac 520.
- Continued installing truck loading/output conveyors at Fac 520.
- Continued installing centrifuge thickened sludge pumps seal water at Fac 520.
- Commenced terminating power to wiring sludge mixers, LCP's, and MCS's at Fac 510.
- Continued process pipe installation at Fac 510.

GST 361 & 362 AERIAL VIEW



GROUND STORAGE TANK 361



Watertightness testing at GST 361

HSPS 401, MSB 111, HSPS 402 AERIAL VIEW



HSPS 401

MSB 111

HSPS 402



HIGH SERVICE PUMP STATION 401



Continued installing electrical rough-in/conduits at Fac 401 pump room

Houston Waterworks Team Jump 1

HIGH SERVICE PUMP STATION 401





Continued installation of aboveground piping at Fac 401. Houston Waterworks Team The Property of the Continued installation of aboveground piping at Fac 401.

HIGH SERVICE PUMP STATION 402



Continued backfilling and continued top of pump can encasement correction at Fac 402

Houston Waterworks Team

DEWATERING BUILDING 520 & THICKENED SLUDGE EQUALIZATION TANK 510 AERIAL VIEW



DEWATERING BUILDING 520



Continued installing plumbing, process pipe, and electrical conduit on levels 1, 2, and 3 at Fac 520

THICKENED SLUDGE & EQ BASIN 510



Continued process pipe installation at Fac 510.



Construction Progress – Administration & Maintenance Building

- Installation of Countertops
- Installation of Interior Storefront Doors
- Placement of Sidewalks
- Regrading of Pond 4



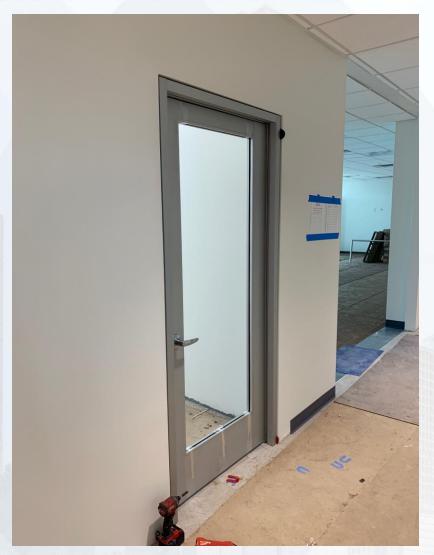
Installation of Countertops



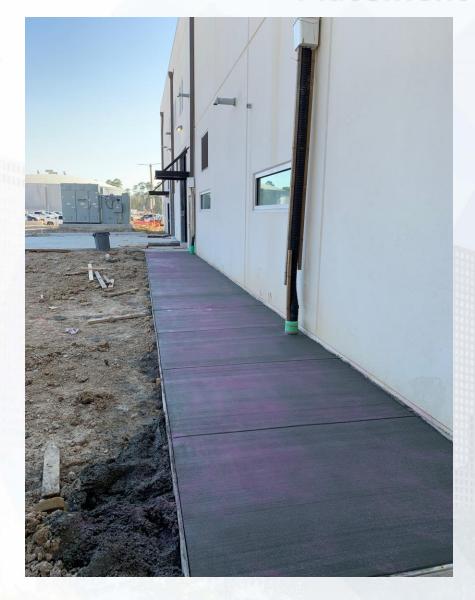


Installation of Storefront Doors





Placement of Sidewalks





Regrading of Pond 4







Construction Progress – Site Civil

 Continue pouring concrete for the side slope and mud slab up to STA 14+00 and 12+50

Continue pouring concrete for the side slope and mud slab up to STA 14+00 and 12+50

