

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

November 4, 2020







Construction Progress – Intake Pump Station (IPS)

- Continue installing the 96" BFVs and platform piping
- Installing the 96" bellows on the North and South pipelines
- Continue pouring CLSM and driving sheet pile
- Fish screens delivered to the site



Continue installing the 96" BFVs and platform piping



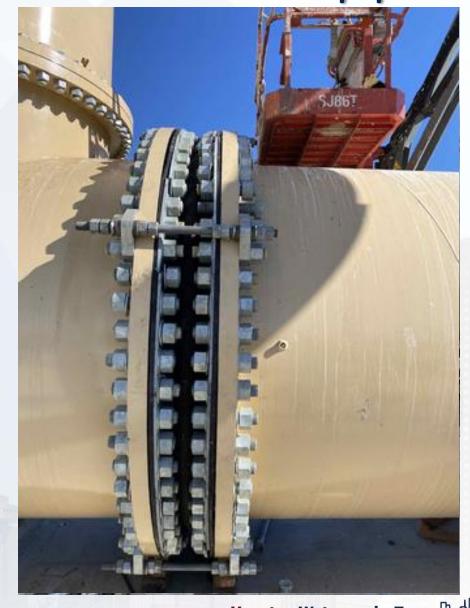






Installing the 96" bellows on the North and South pipelines





Continue pouring CLSM and driving sheet pile





Fish screens delivered to the site







Construction Progress – Site Electrical

- Pulling feeders 111A&B from 102 to MMH111A&B-3
- Duct Bank Installation from MMH111B-5 to MMH111B-6
- Duct Bank Installation North of Facility 111 Tie in to Manholes



Pulling Feeders 111A&B from 102 to MMH111A&B-3





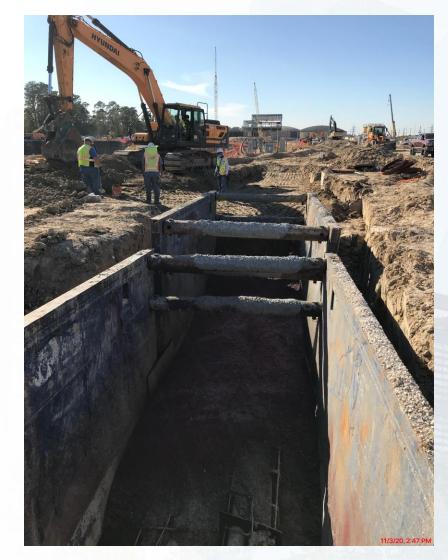


Duct Bank Installation from MMH111B-5 to MMH111B-6





Duct Bank Installation North of Facility 111 Tie in to Manholes











Construction Progress – Substation Facility 102

- Continue installing the busduct
- Installing rock in the Substation Yard
- Installation of lighting fixtures, DC battery system and prelim-testing of 25kV switchgear
- Installing fencing in the Substation yard



Continue installing the busducts



Placing rock in the Substation yard



Installation of lighting fixtures, DC battery system and prelim-testing of 25kV switchgear



Installing fence around the Substation yard



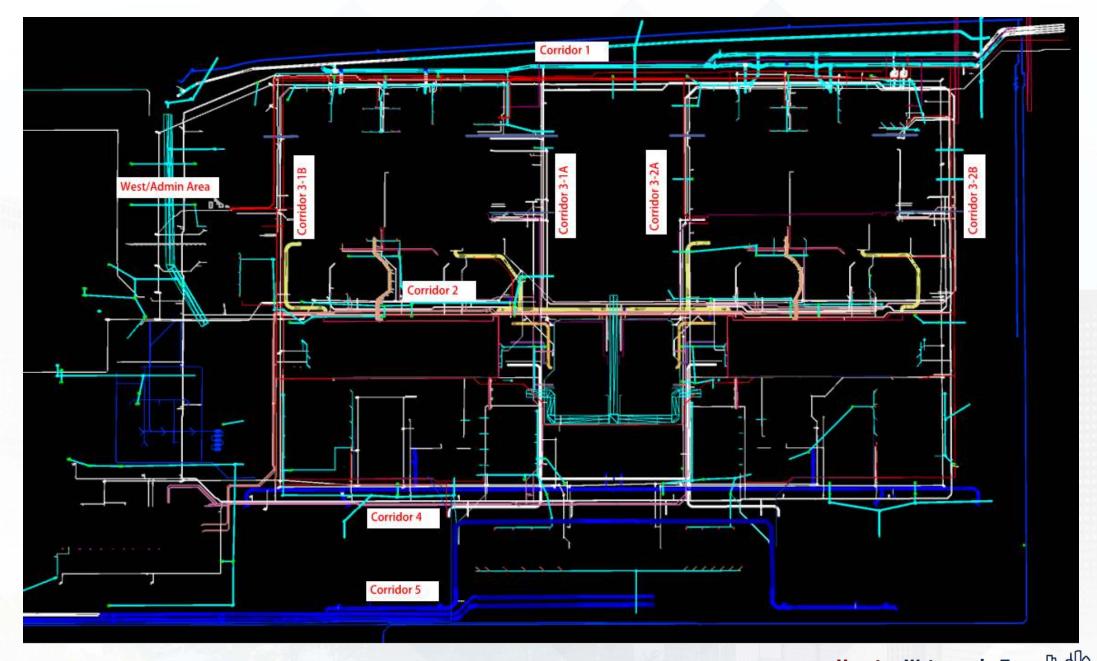




Construction Progress – Yard Piping

- Installing 96" OZW Steel pipe in Corridor 3-1A from Fac. 252
- Installing 8" SSG pipe and MH108 in Corridor 3-1A by Fac 502
- Installing 12" PW pipe in Corridor 3-1B
- Installing 2-16" TSL pipe in Corridor 3-1B
- Coring and installing Inserta-tee in the 24" RCP in Corridor 3-1B
- Installing a 72" BWW line in Corridor 3-1A
- Placing 8x4' Storm box culverts in Corridor 4 (by Fac 601)
- Set the 108" BFV on FW line in Corridor 4
- Laying the 84" & 120" FW distribution lines in Corridor 5
- Installing the 120" FW Steel pipe by GST 362 in Corridor 5





Laying 96" OZW Steel pipe in Corridor 3-1A from Fac. 252

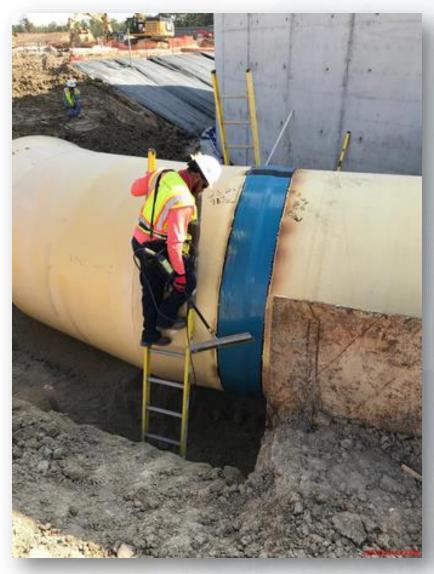








Canusa wrap and placed flow fill to spring-line of 96" OZW Steel pipe









Installing 8" SSG pipe and MH108 in Corridor 3-1A by Fac 502







Installing 12" PW pipe in Corridor 3-1B

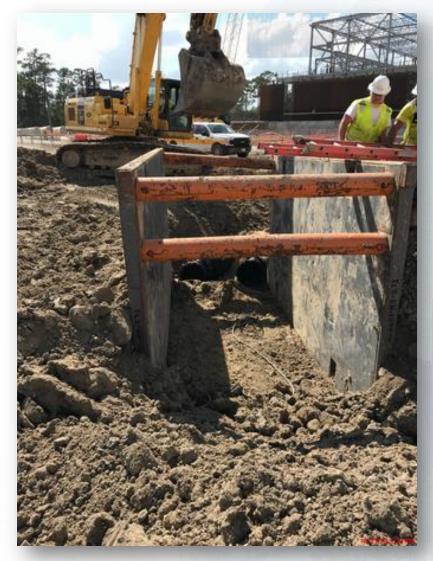








Installing 2-16" TSL pipelines in Corridor 3-1B

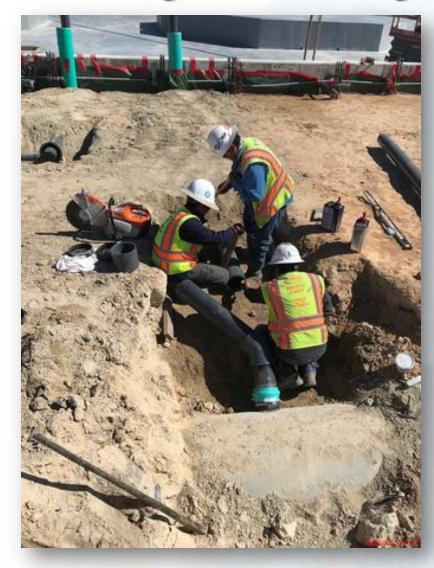








Coring and installing Inserta-tee in the 24" Stm. RCP in Corridor 3-1B









Installing the 72" BWW line in Corridor 3-1A









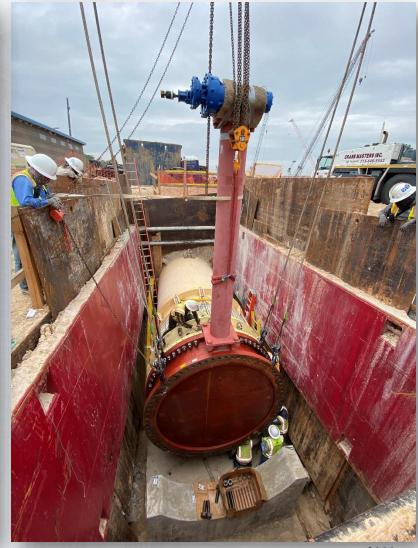
Placing 8x4' Stm. box culverts in Corridor 4 (by Fac 601)



Set the 108" BFV on FW line in Corridor 4



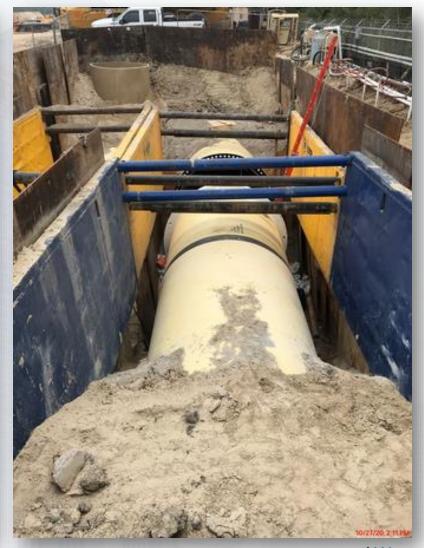




Laying the 84" & 120" FW distribution lines in Corridor 5





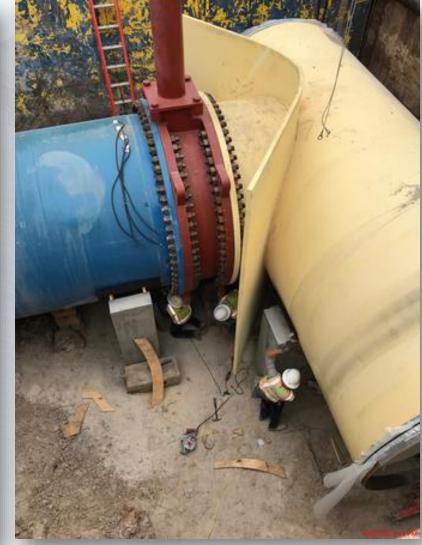




Formed and poured the 102" and 120" FW pipe supports in Corridor 5

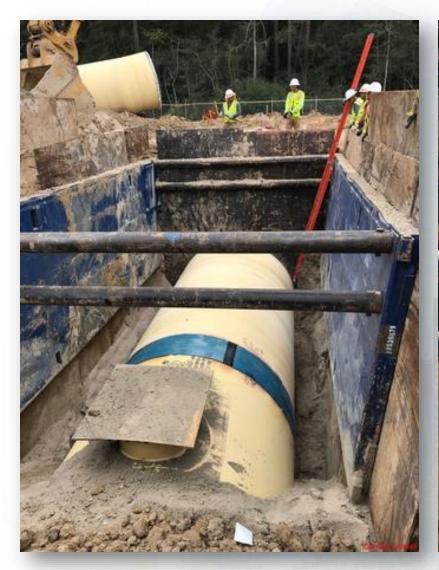




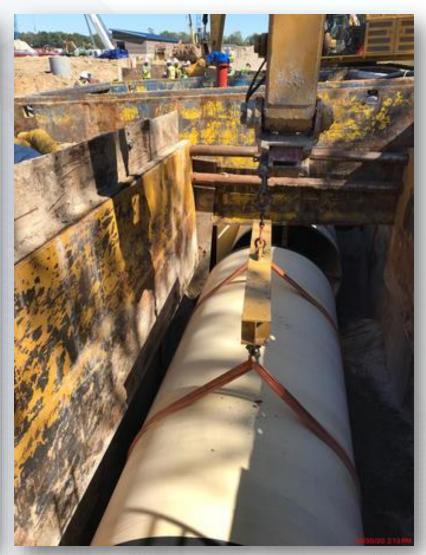




Installing the 120" FW Steel pipe by GST 362 in Corridor 5











Construction Progress – Central Plant

281-FILTER MODULE 1:

- Forming/Reinforcing Walls.
- Pouring Walls.
- East Side Masonry Completion.
- Start of West Side Masonry.
- Reinforcing/Pouring Walkways.
- Drilling anchors & Setting Gallery Pipe supports.

291-TRANSFER PUMP STATION 1:

Watertightness Testing

292-TRANSFER PUMP STATION 2:

- Place Underdrain Material under Main Slab
- Pour Seal Slab
- Form up and Reinforcement of Main Slab Sections

311-POST CHEMICAL FACILITY 1 SH/CS:

- Backfilling and Compacting Footing and stem walls
- Fabrication of SH Tank –Carbon Steel
- Backfilling Fill Station Area
- Installation of Plumbing Lines/STM lines

312 - POST CHEMICAL FACILITY 2 FA/LAS/PEC/SB

Footing, Stem Walls RFP – Building Area

282 -FILTER MODULE 2:

- Forming/Reinforcing Base Slabs.
- Pouring Base Slabs 9/11/13/15.
- Start Reinforcing/Pouring Walls.

CENTRAL PLANT - Phase 1 Overall



281-FILTER MODULE-Forming/Reinforcing West Filter Walls







281-FILTER MODULE-Pouring Walls





281-FILTER MODULE- East Side Masonry Completion





281-FILTER MODULE - Setting Scaffolding for West Side Masonry





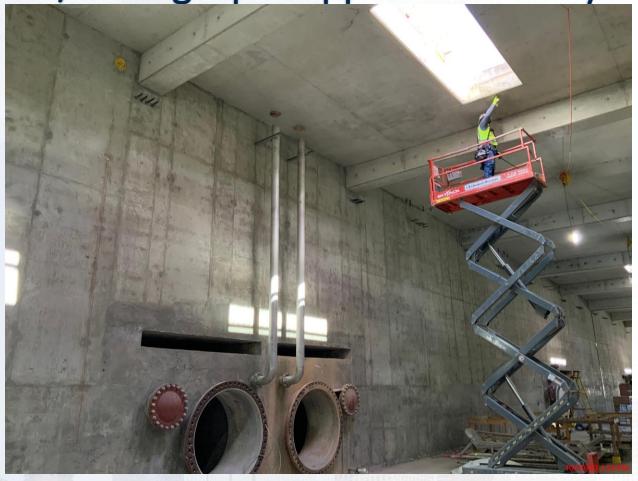
281-FILTER MODULE- Reinforcing/Pouring Walkways





281-FILTER MODULE - Drilling Anchors/Setting Pipe supports in Gallery







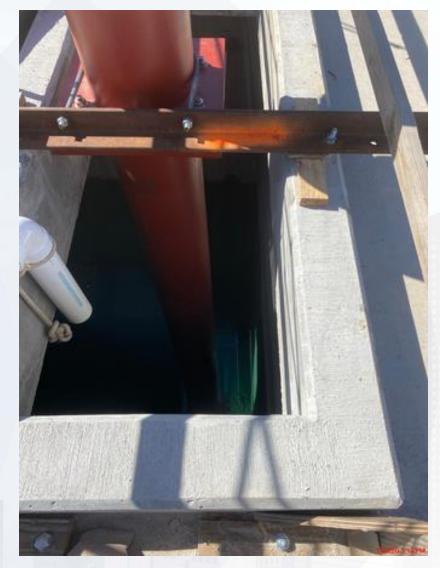
291-TPS - Top View 11/2/2020



NEWPP-000-DCMT-TEMP-0003 [0] Issued for Information 21-Dec-2016

291-TPS – Watertightness Testing





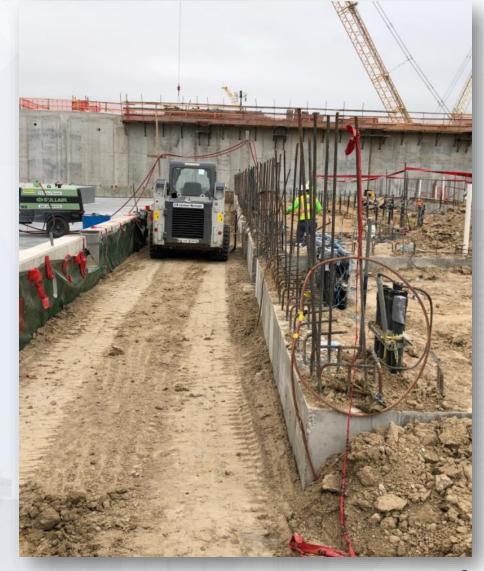
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311-Post Treatment Chemical Facility 1 - Overall view 11/02/2020



311 - Backfilling and Compacting North, West, East areas





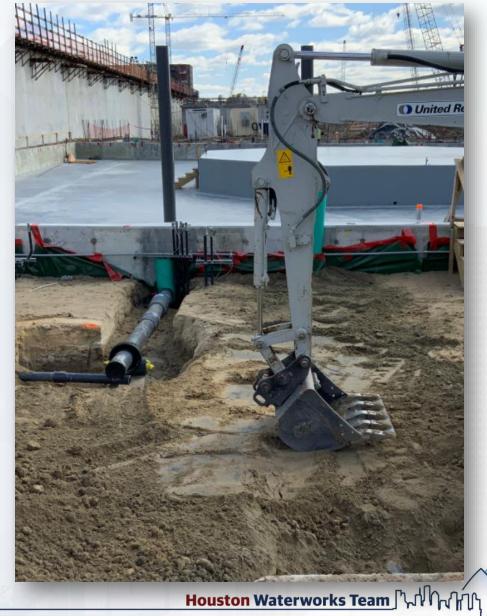
311 - Post-Chem Tank Pads: Fabrication of steel SH Tanks





311 – Installation and backfilling of STM Lines at Fill Station.





311 - Installation of Plumbing and STM Lines





312-Post Treatment Chemical Facility 2- Overall view



312 - Footings and Stem Wall –RFP



312 - Footings and Stem Wall –RFP



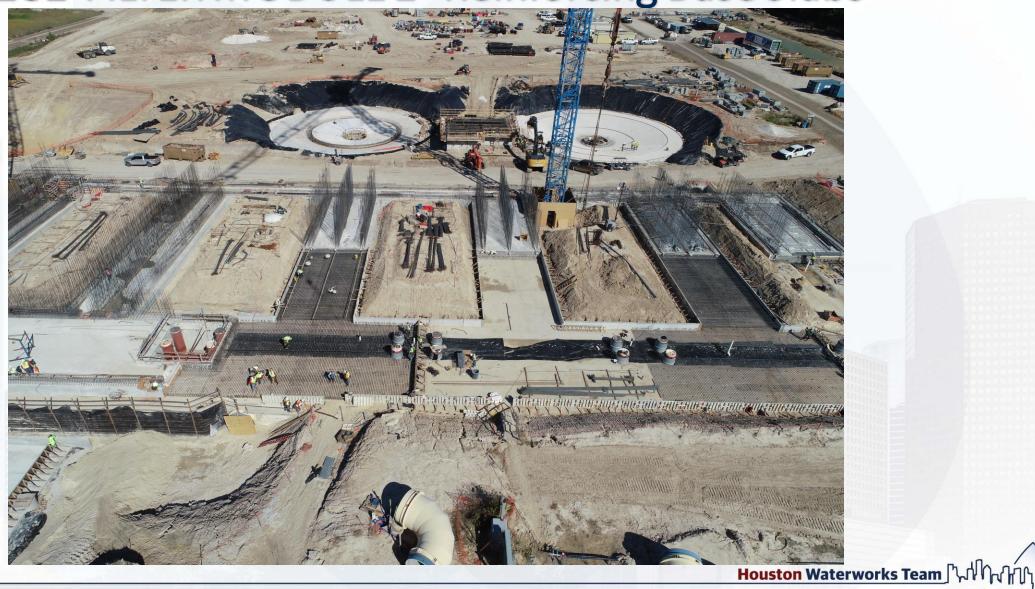




CENTRAL PLANT - Phase 2 Overall



282-FILTER MODULE 2- Reinforcing Base Slabs



282-FILTER MODULE 2- Pouring Base Slabs 13,15,9,11





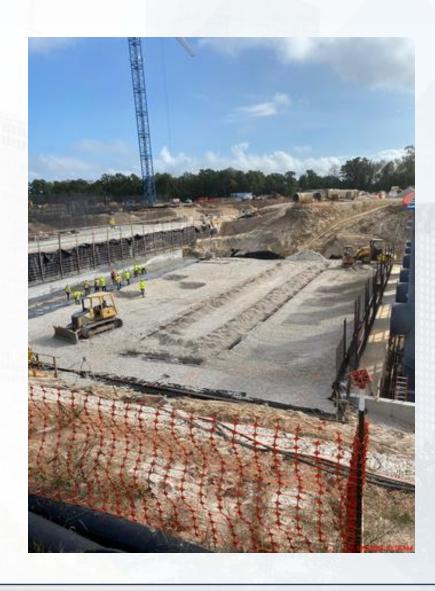


282-FILTER MODULE 2- Start Reinforcing/Pouring Walls





292-TPS – Placing Underdrain Material under Main Slab





292-TPS - Pouring Seal Slab



292-TPS - Form up and Reinforcement of Main Slab Sections







Construction Progress – LREQ Basins Facilities 601/602

- 601 Concrete placement for elevated walkway and deck
- 602 Continue excavation
- 602 Pump Station: Pour wall P10

601 – Concrete placement for elevated walkway and deck







602 – Continue excavation





602 – Pump Station: Pour wall P10







Construction Progress – North Plant

212-Pretreatment Chemical Facility 2:

- Mudmat
- Sump F/R/P

213-Pretreatment Chemical Facility 3:

- Structural Concrete Work
- Chemical Coating Process

222-Rapid Mix Train 2:

- Elevated Slab(s) F/R/P
- WL-3C Curing

241-FlocSed Train 1:

Trench Walls F/R/P

242-FlocSed Train 2:

Structural Concrete Work

243-FlocSed Train 3:

• E/W Corridor Encasement

251-Ozone Contactor Train 1:

- •Influent Sump F/R/P
- 252-Ozone Contractor Train 2:
- •Wall-3 F/R/P

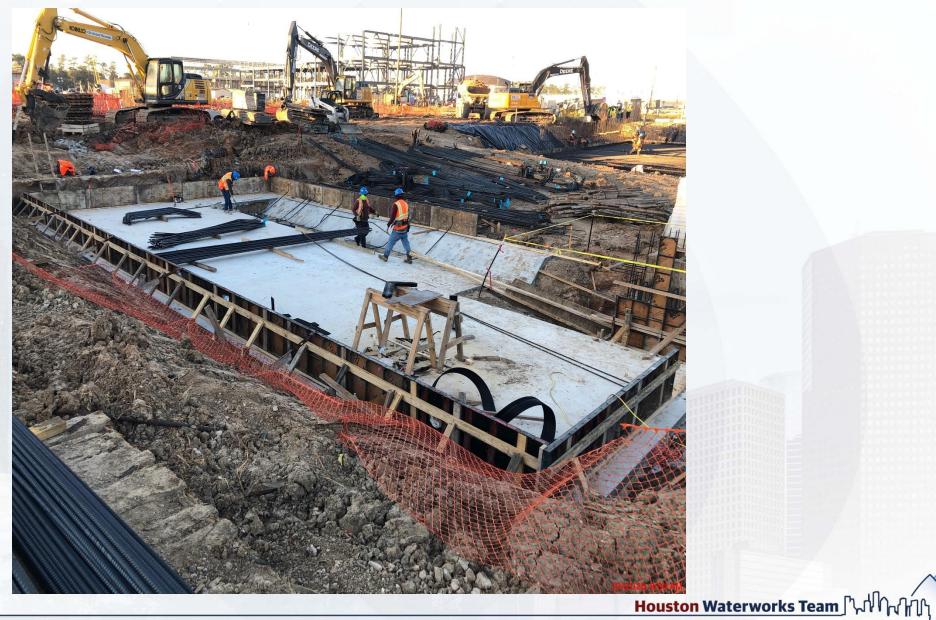
502-Gravity Thickener Complex 2:

•Wall 5 F/R/P

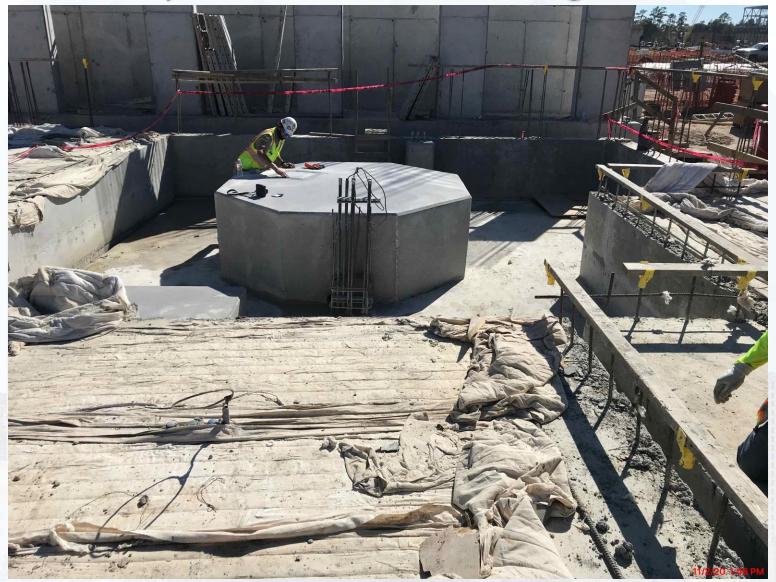
611-LiquidResidualsClarifierFacility 1

- PS-EW-1 F/R/P
- WDW-3 F/R/P

Facility 212 - Mudmat & Sump F/R/P

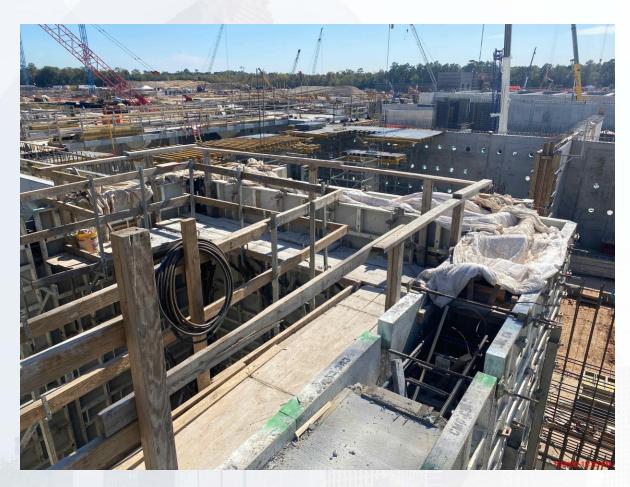


Facility 213 – Chemical Coating Process



Facility 222 - RM-ESL-3 F/R/P & WL-3C Curing



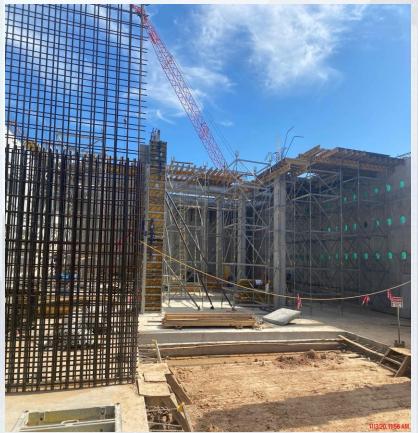


Facility 241 – TW-6 Curing & TW-9 F/R/P



Facility 242 - CWC Walls F/R/P, ESL Columns, ESL F/R/P

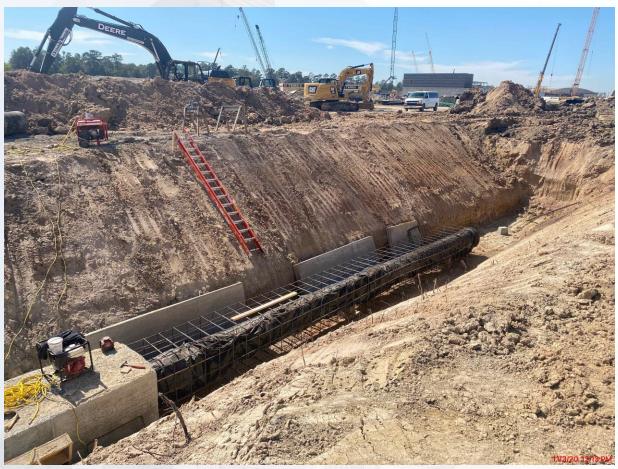






Facility 243 – 24" PDR E/W Corridor Encasement





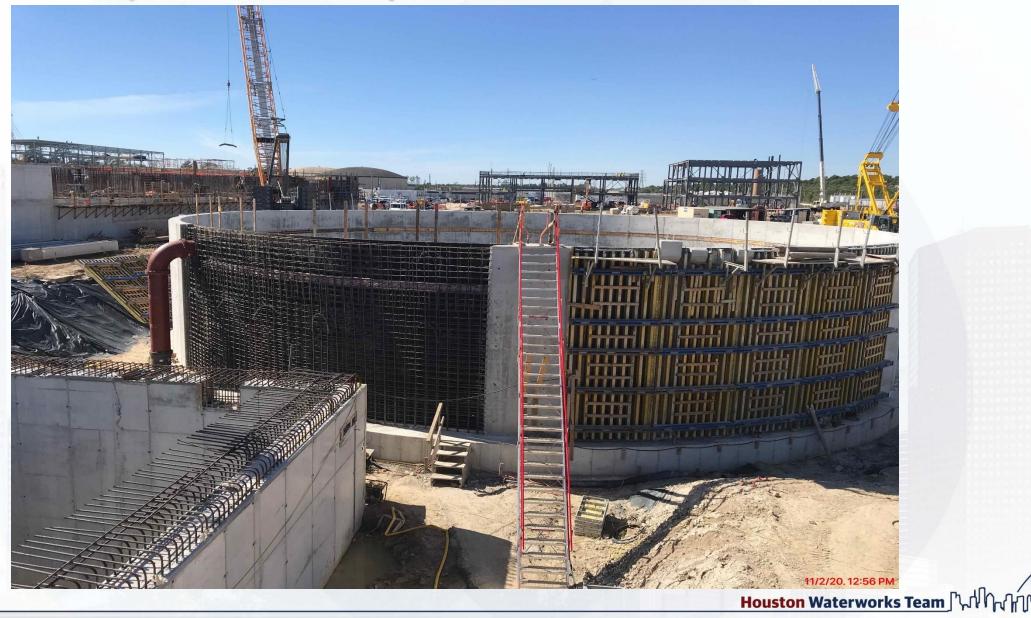
Facility 251 – Ozone Contractor – Influent Sump F/R/P



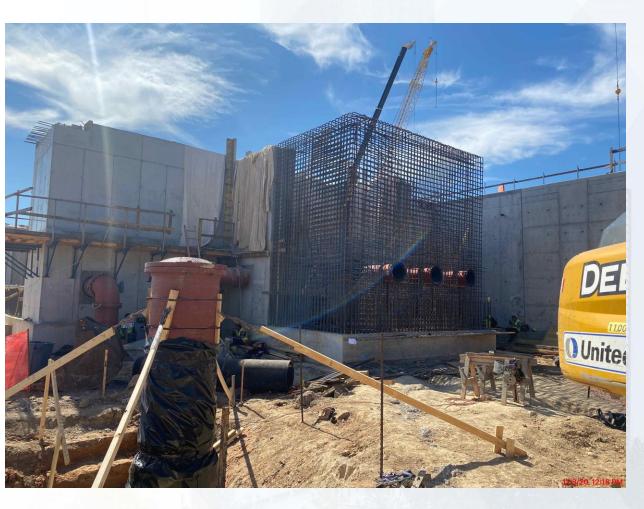
Facility 252 – Ozone Contractor - Wall-3 F/R/P



Facility 502 – Gravity Thickener #3 Wall-5 F/R/P



Facility 611 - PS-EW-1 & WDW-3 F/R/P



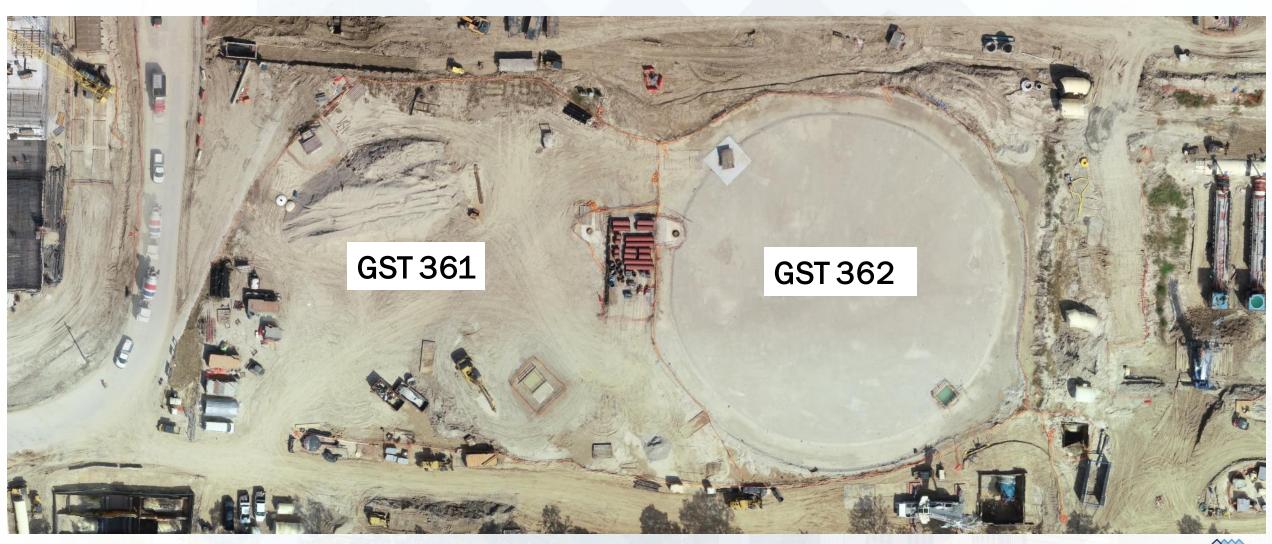




Construction Progress – South Plant

- 102" Outlet Pipe at GST 362 Installation.
- Load Transfer Platform Installation at GST 362 Awaits Final Lift.
- MSB 111 Standing Seam Metal Roof Installation Completed.
- MSB 111 MEP and Protective Coating on Walls Installation.
- Installation of 78" Inlet Pipes, Backfilling, Encasement, and Hydro-Testing at HSPS 401.
- Installation of Pump Cans and Epoxy Grout at HSPS 402.
- Concrete Pours at 3rd Floor, Bridge Crane Installation, and Steel Roof Installation at the Dewatering Building 520.
- Installation of Masonry Block Walls at Dewatering Building 520 Paused due to block shortage.
- Installation of Concrete Walls at Sludge Equalization Building 510 Continues.

GST 361 & 362 AERIAL VIEW





HSPS 401, MSB 111, HSPS 402 AERIAL VIEW



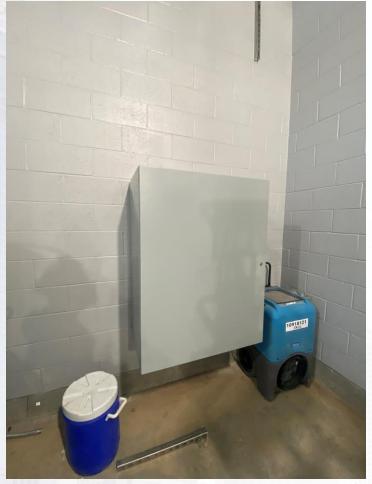
MSB 111 Standing Seam Metal Roof Installation Completed



MSB 111 – Installation of MEP and application of Protective Coating on Walls









Installation of 78" Inlet Pipes, Backfilling, Encasement, and Hydro-Testing



Installation of Pump Cans and Epoxy Grout at HSPS 402







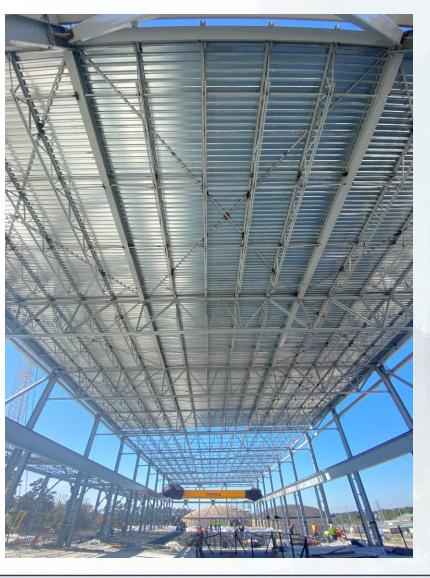
DEWATERING BUILDING 520 & THICKENED SLUDGE EQUALIZATION BUILDING 510 AERIAL VIEW



Dewatering Building 520



Concrete Pours at 3rd Floor, Bridge Crane Installation, and Steel Roof Installation at the Dewatering Building 520





Installation of Masonry Block Walls at Dewatering Building 520 Paused Due to Block Shortage







Installation of Concrete Walls at Sludge Equalization Building 510 Continues







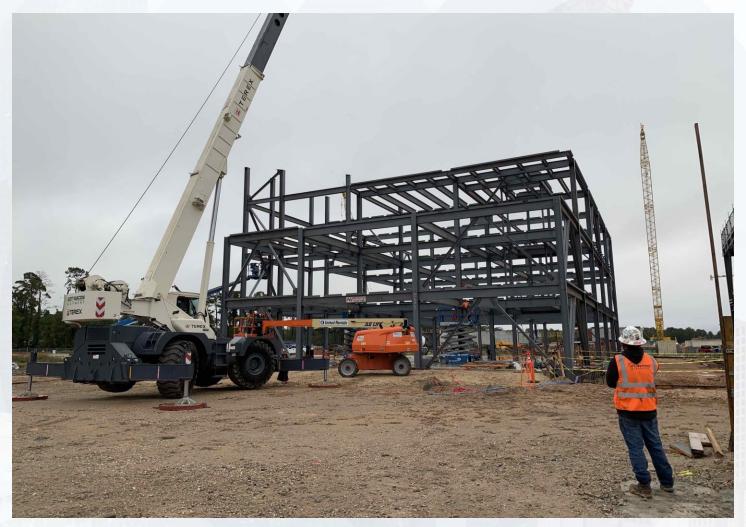


Construction Progress – Administration Building

- Completed Erection of Beams and Columns at AB
- Reinforced Roof at MB
- Placed Leave-out at BW
- Reinforced SOG at BW

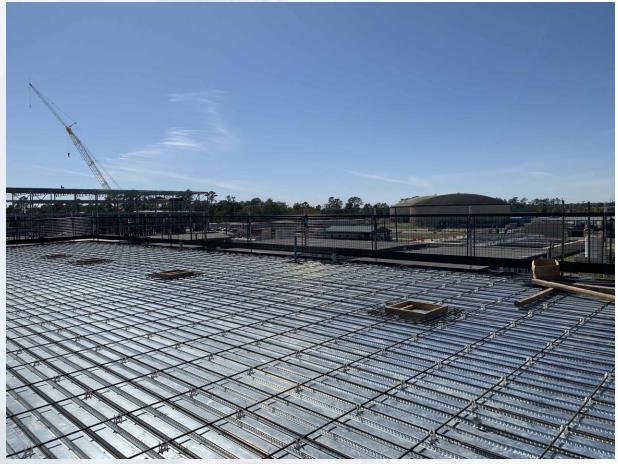


Completed Erection of Beams and Columns at AB



Reinforcment of Roof at MB





Placement of Leave-out at BW







Reinforcement of SOG at BW

