

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

November 13, 2019



Drone Site Map: Nov 1, 2019







Construction Progress – EWP 1/3 & 6 Site Development

- Completing EWP1 Punchlist items
- Site Crew managing soils and sand stockpiles
- Installing Trailer City 2.0 Utilities and Temporary Construction Water Line
- Installed north temporary fence
- Relocating fiber optic cable



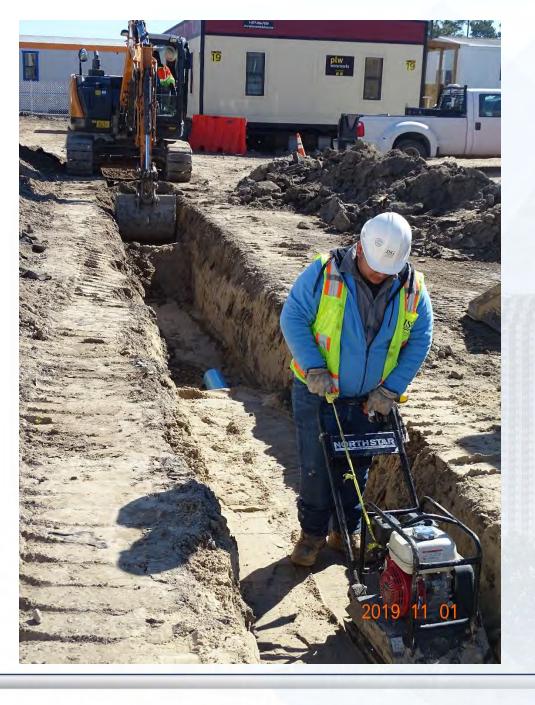
Trailer City 2.0: Nov 1, 2019



Trailer City 2.0 – Installing 6in Water Meter



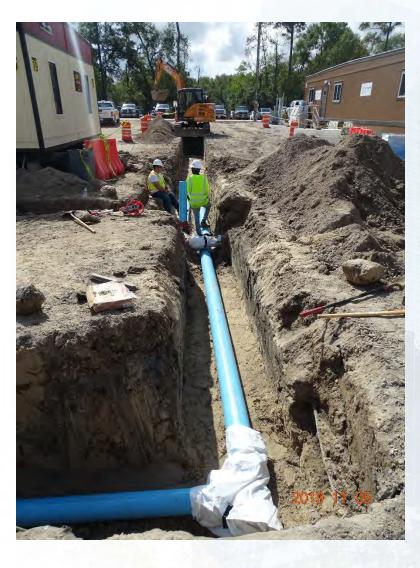




Trailer City 2.0 – Laying 6in Trunk Water Line



Trailer City 2.0 – Installing 8in Water Line and Fire Hydrant







Installing temporary north fence









Installing conduit to relocate fiber optic cable







Construction Progress – Temporary Power / Site Electrical EWP-6

- East Site Temp Power H-12 Main Service, Central and South Service
- Site Electrical Material Staging, Duct Bank Conduit Pre-Fab
- Electrical Manhole Staging & Survey

Temporary Power East Site-TP-12, Central







Site Electrical Duct Bank Pre-Fab











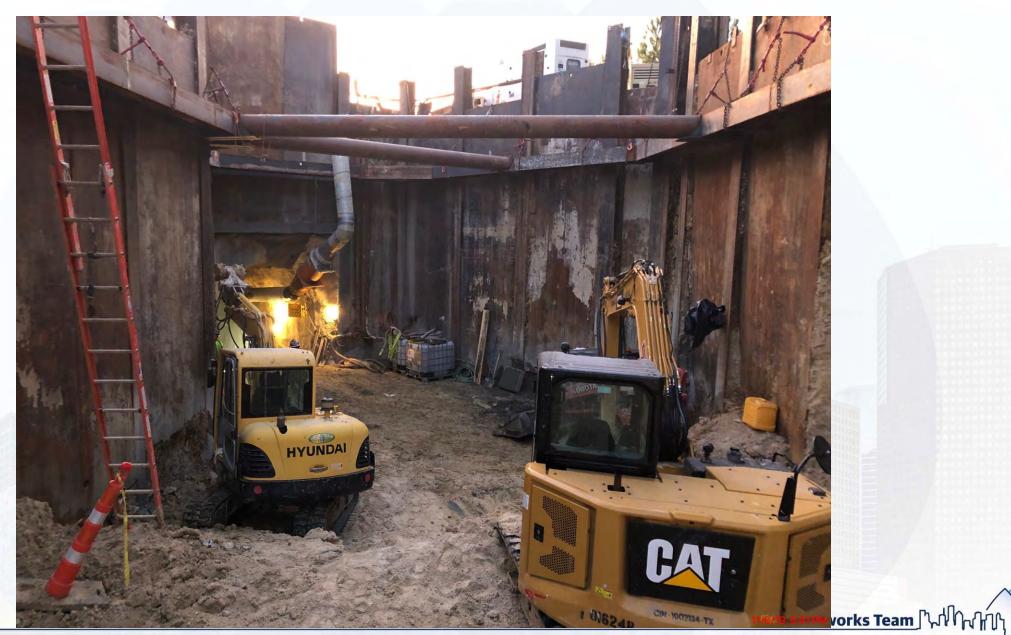
Construction Progress – EWP4 Raw Water Corridor

- Trench shoring installation and excavation in East Corridor
- Manhole Installation
- Welding and grouting joints
- Storm Drainage Installation
- Shoring installation at transition to tunnel and at sta 142+50
- Tunnel 2.0 Excavation

Shoring Installation at sta 142+50



Tunnel 2.0 sta 134+50

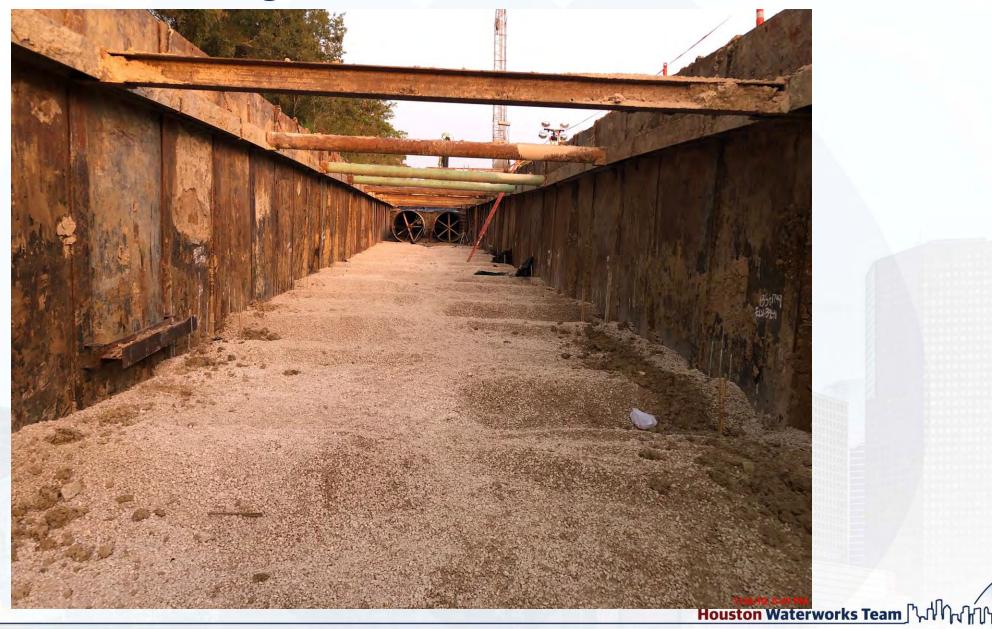


Tunnel 2.0 sta 134+50





Trench Shoring and Excavation-East Corridor





Construction Progress – Central Plant

281-FILTER MODULE 1:

- Forming Base Slab B1B/B2B
- Reinforcing/Forming/Pouring Wall Pours
- Backfilling 72" BWW

291-TPS:

- Top Deck Formwork over Contact Basins
- Placing First Lift of Encasement at Pump Cans
- Delivering Top Deck Pipe Sleeves

282 -FILTER MODULE 2:

GW Dewatering system Installation



281-FILTER MODULE- Forming Base Slabs B1B, B2B





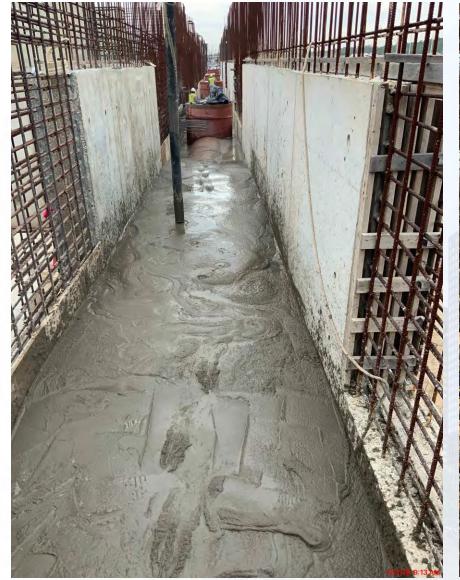
281-FILTER MODULE- Reinforcing/Forming/Pouring Walls

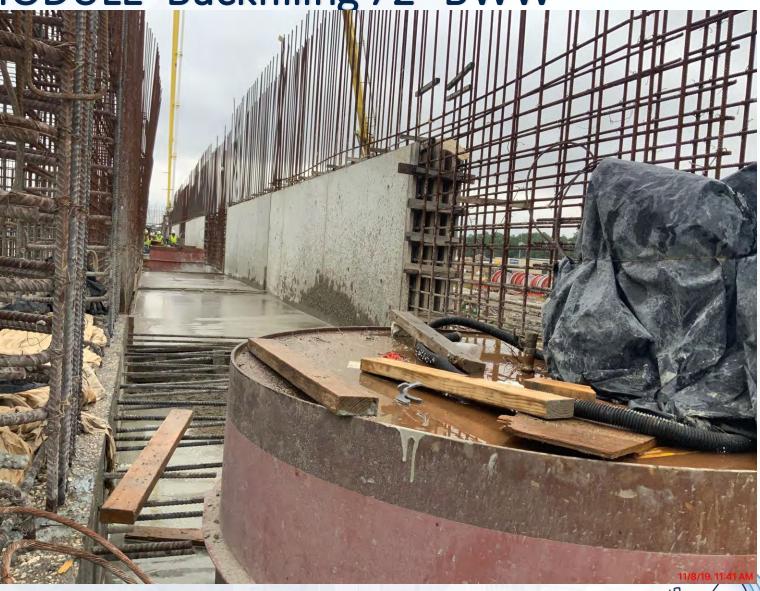




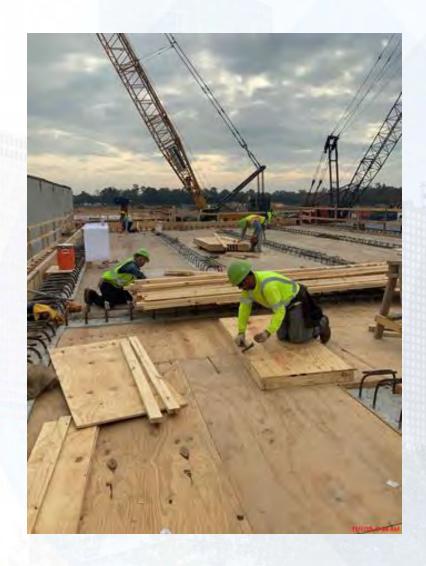


281-FILTER MODULE- Backfilling 72" BWW





TPS – Top Deck Formwork over Contact Basins







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

TPS – Placing 1st lift of Encasement at Pump Cans







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

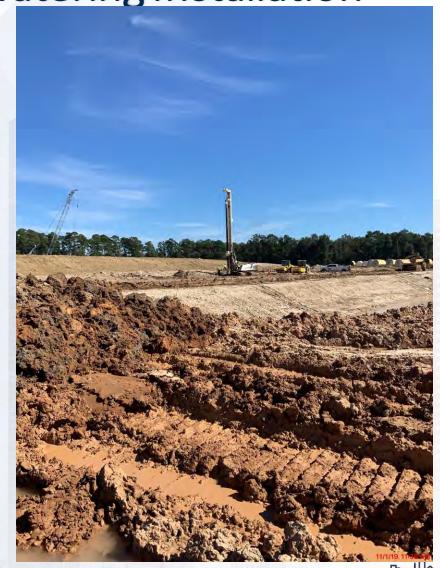
TPS – Delivery of Top Deck Pipe Sleeves



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282-FILTER MODULE 2- GW Dewatering Installation







Construction Progress – EWP 6 North Plant

- Facility 213 Slab-on-grade formwork and rebar
- Facility 214 Slab-on-grade formwork and rebar
- Facility 222 Vault Walls formwork and rebar; pipe penetrations
- Facility 242 Slab-on-grade F/R/P
- Facility 242 Cross Collector Backfill
- Facility 242 Yard Piping
- Facility 611 Slab-on-Grade F/R/P

Facility 213 Slab-on-grade Formwork and Rebar





Facility 214 Slab-on-grade Formwork and Rebar





Facility 222 Vault Wall Formwork and Rebar





Facility 222 78" RW Pipe Penetration



Facility 242 Slab-on-grade F/R/P



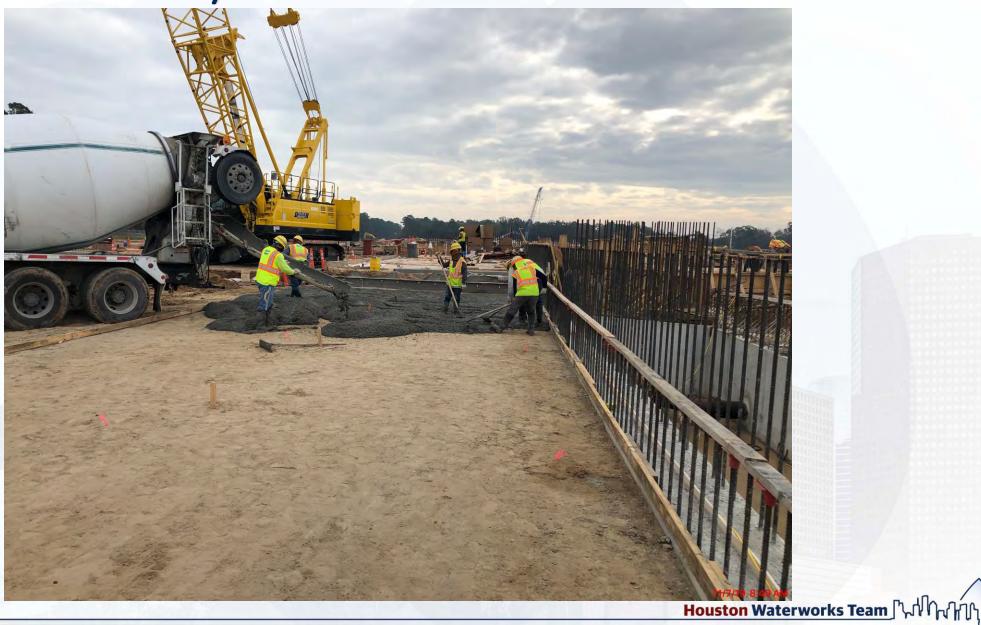


Facility 242 Yard Piping and Cross Collector Backfill





Facility 242 Mud Mat Placement



Facility 611 SOG Formwork and Rebar and C/C Backfill





Facility 611 Sedimentation Basin Slab-on-grade

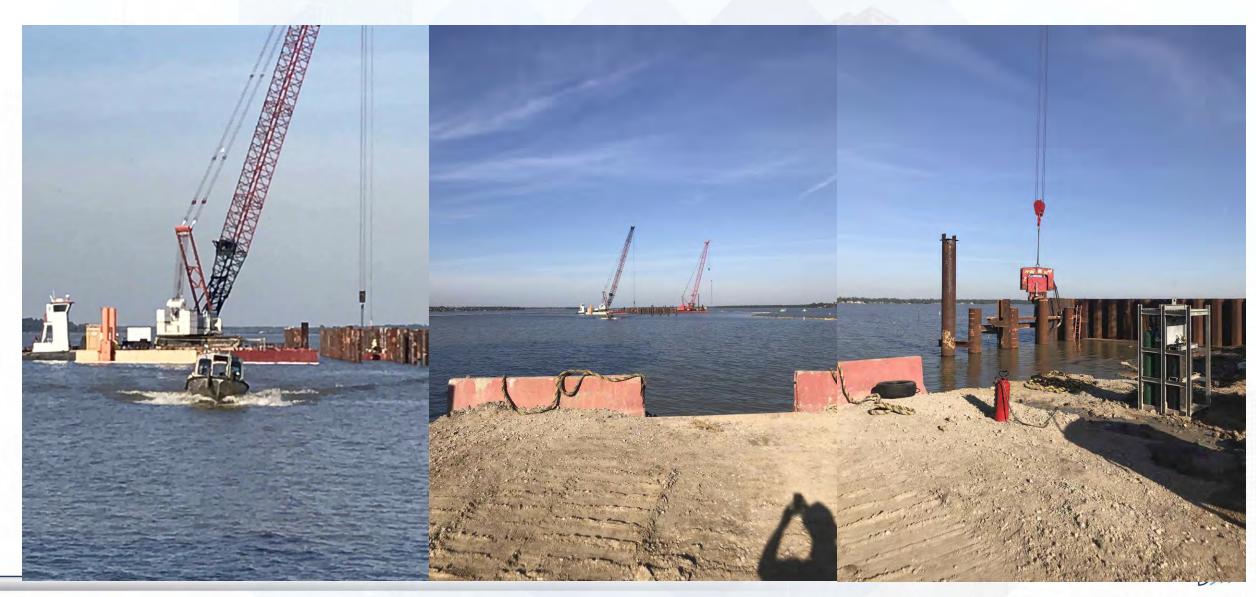




Construction Progress – EWP 6 IPS

- Setting Casing Template to Complete Driving of 120" Casings
- Completes Formwork To Build Intake Structure
- Pouring Flow Fill for Intake Piles Preparing For Formwork
- Installing Permanent Bulkhead

Pouring Concrete (CLSM) inside the Piles









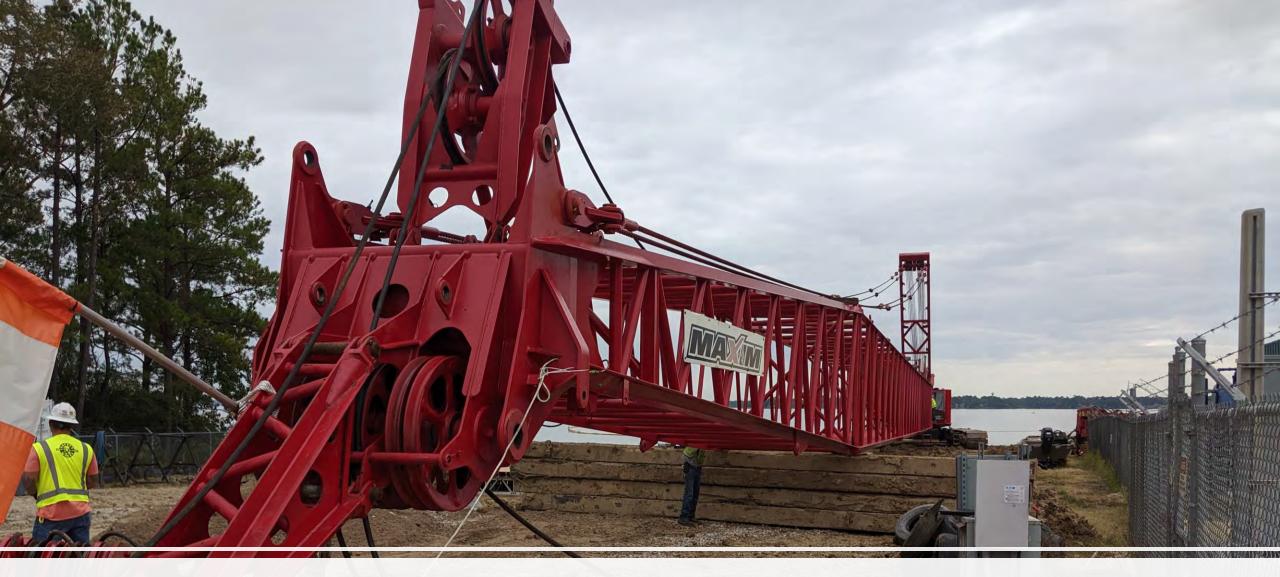
Flow Fill For Intake Structure

Building the Platform (IPS)









Fixing a minor crane Issue



Construction Progress – EWP 6 Substation Facility 102

- Delivery of 138kv Switches
- Haul of spoils to designated HWT stockpile area
- Continue Yard Foundations



Delivery of 138kv Switches



Haul of spoils to designated HWT stockpile area



Continue Yard Foundations







Construction Progress – BOP LREQ Basins Facilities 601/602

- Facility 601/602 Excavation Progress
- Completed lower recycle pump station mud slab at 601/602
- Formwork construction for 601 lower slab
- Mobilized hydraulic crane

Facility 601/602 Excavation Progress



Completed lower recycle pump station mud slab at 601/602





Formwork construction for 601 lower slab



Mobilized hydraulic crane





Construction Progress – Yard Piping

- Receiving and unloading ductile iron pipe deliveries
- Installing 24-in PW line and valves, and poured valve supports
- Installing 30-in RCY Line
- Installing 24-in PDR Line and manhole
- Installing 16-CEN line

Performed internal hydro test on 24-in PW & poured supports for valves







Excavating and laying 16-in CEN & 24-in PDR lines: Nov 1

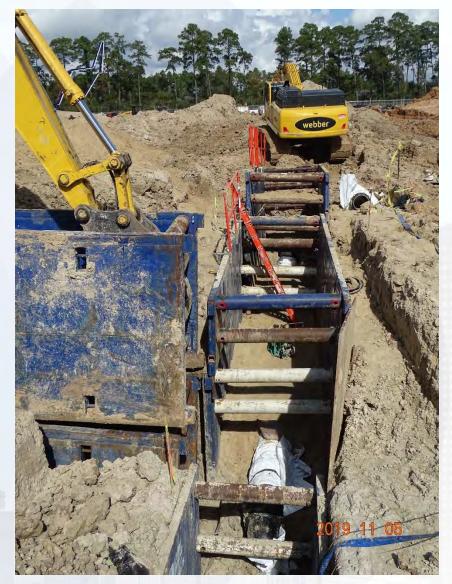


Laying, backfilling, & compacting 24-in PDR line



Excavating and laying 16-in CEN line

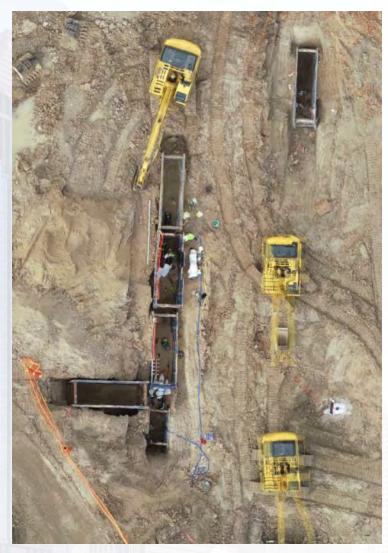




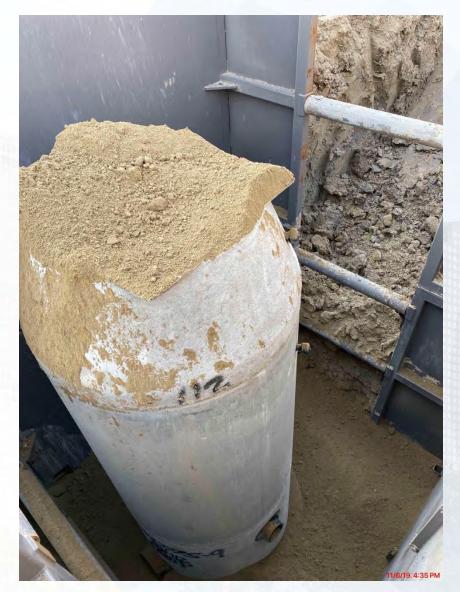
Excavating and laying 30-in RCY line (West-East)







Setting Manhole 112 for SSG System







Construction Progress – Administration Building

- Brought in and compacted 8in of crushed stone
- Established sumps on North and South side of pad for drainage

Brought in and compacted 8in of crushed stone







Established sumps on North and South side of pad for drainage







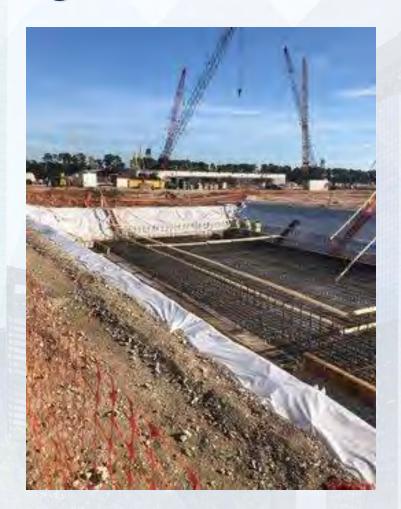


Construction Progress – South Plant

- Installing 600+ Vibro Stone columns (VSC's) at GST 362
- Installing Overflow box in between GST 1&2
- Installing dewatering wells at HSPS 401&402
- Compaction at Main Switchgear Building
- Surveying and layout at Dewatering Building

Installing 600+ Vibro Stone columns (VSC's) Installing OFB in between GST 1&2









Installing dewatering wells at HSPS 401&402 Compaction at Main Switchgear Building





Surveying and layout at Dewatering Building





