




**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**



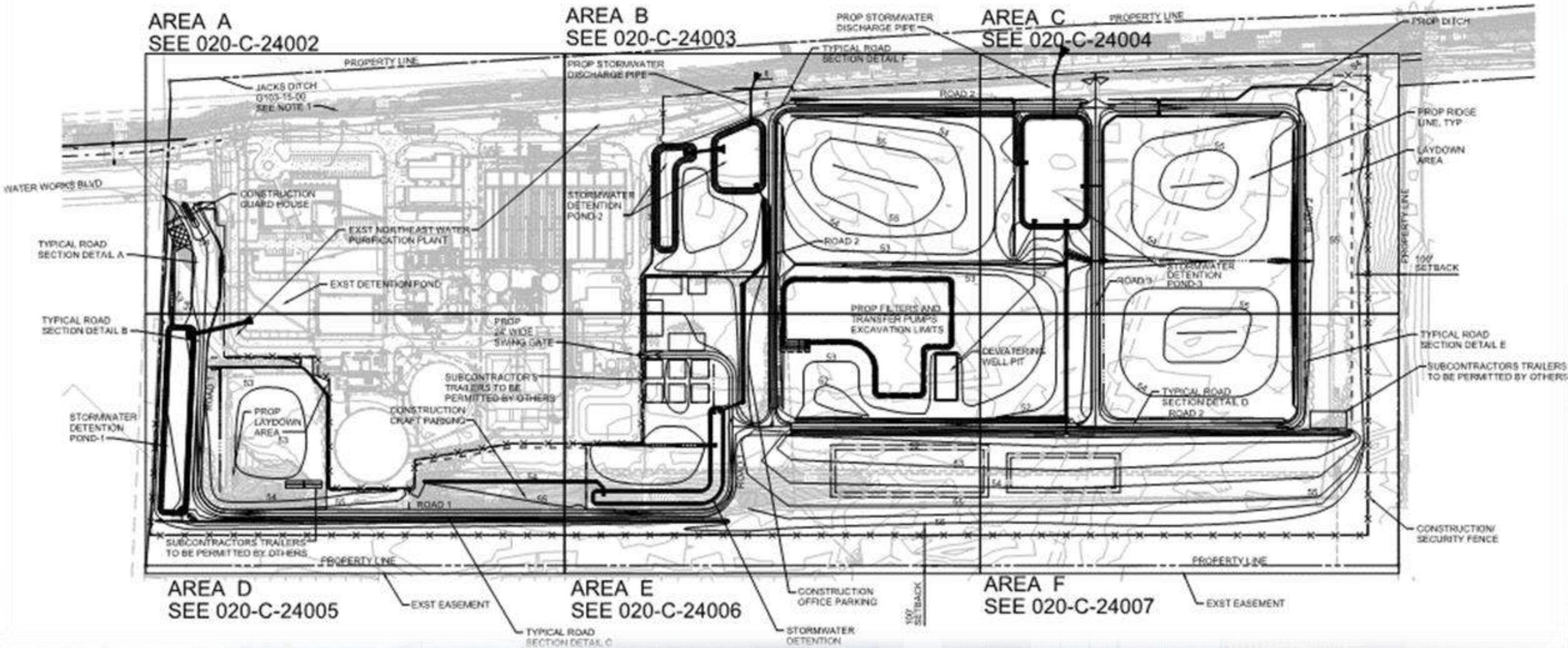


# Construction Progress – EWP 1 Site Development

## Oct 24, 2018

- **Clearing/Grubbing near Jack's Ditch for 36in FW and 66in RW Lines**
- **Cutting & Grading East Areas C & F**
- **Laying out and installing 24in FW Pipeline Relocate**
- **Installing fence along east site boundary**
- **Final grading top of ponds**





# Cutting and grading East site Areas C & F



2018 10 22

# Clearing near Jack's Ditch for 36in FW & 66in RW Line Reroutes



# Laying out 24in FW Pipeline Relocate





# Construction Progress – EWP 4 – Raw Water Corridor

- **Cutting pipeline excavation, and installing shoring system**
- **Installing fence in East corridor**
- **Tunneling in shaft**
- **Excavating shaft in East Corridor**
- **Laying 108” Pipe**
- **Excavating Exit Shaft in East Corridor**
- **Placing CLSM**



# Installing shrink sleeve on 108in Joints





# Placing CLSM in 108in Pipe Trench



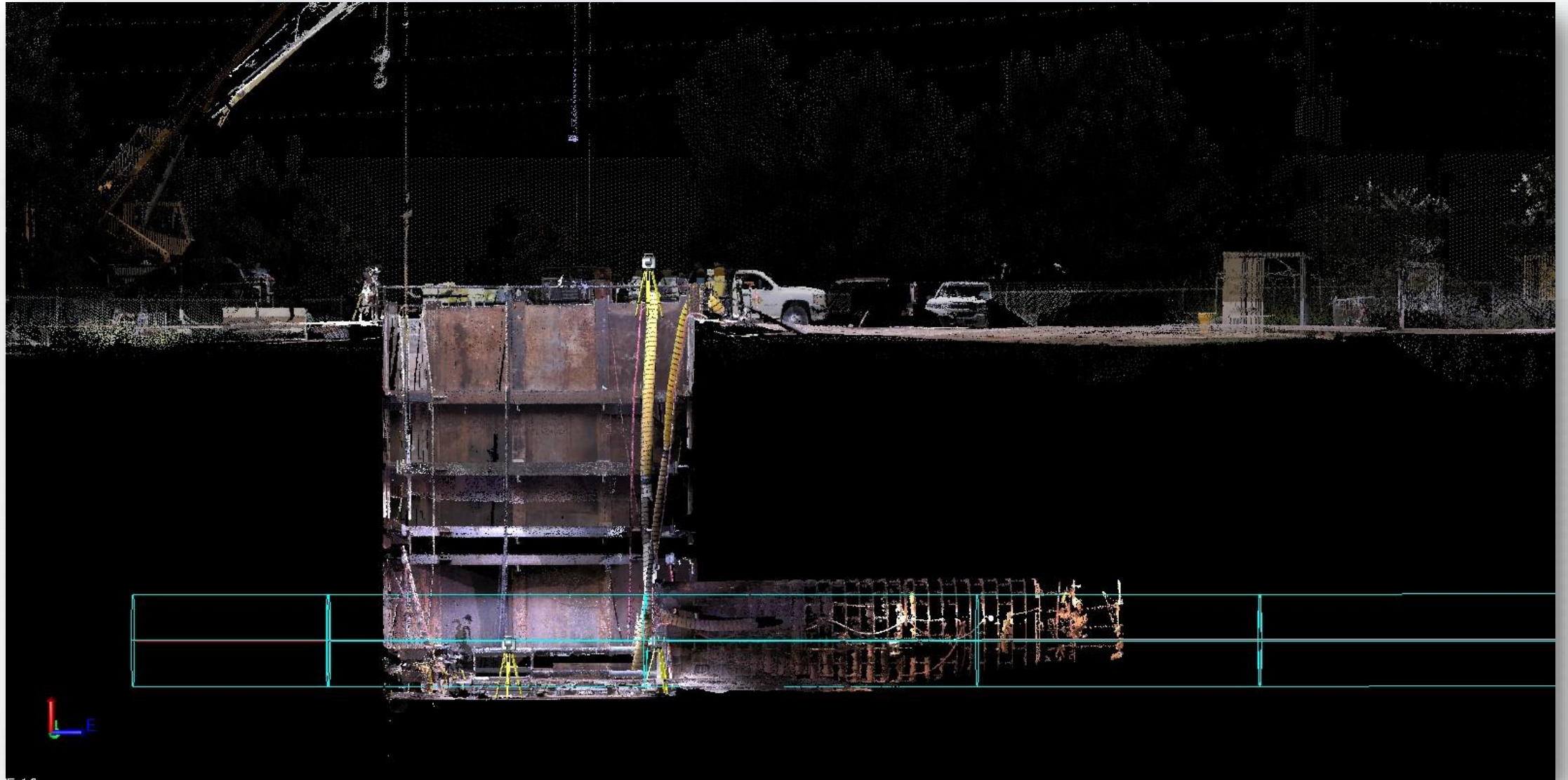
# Pea Gravel Placement in Tunnel



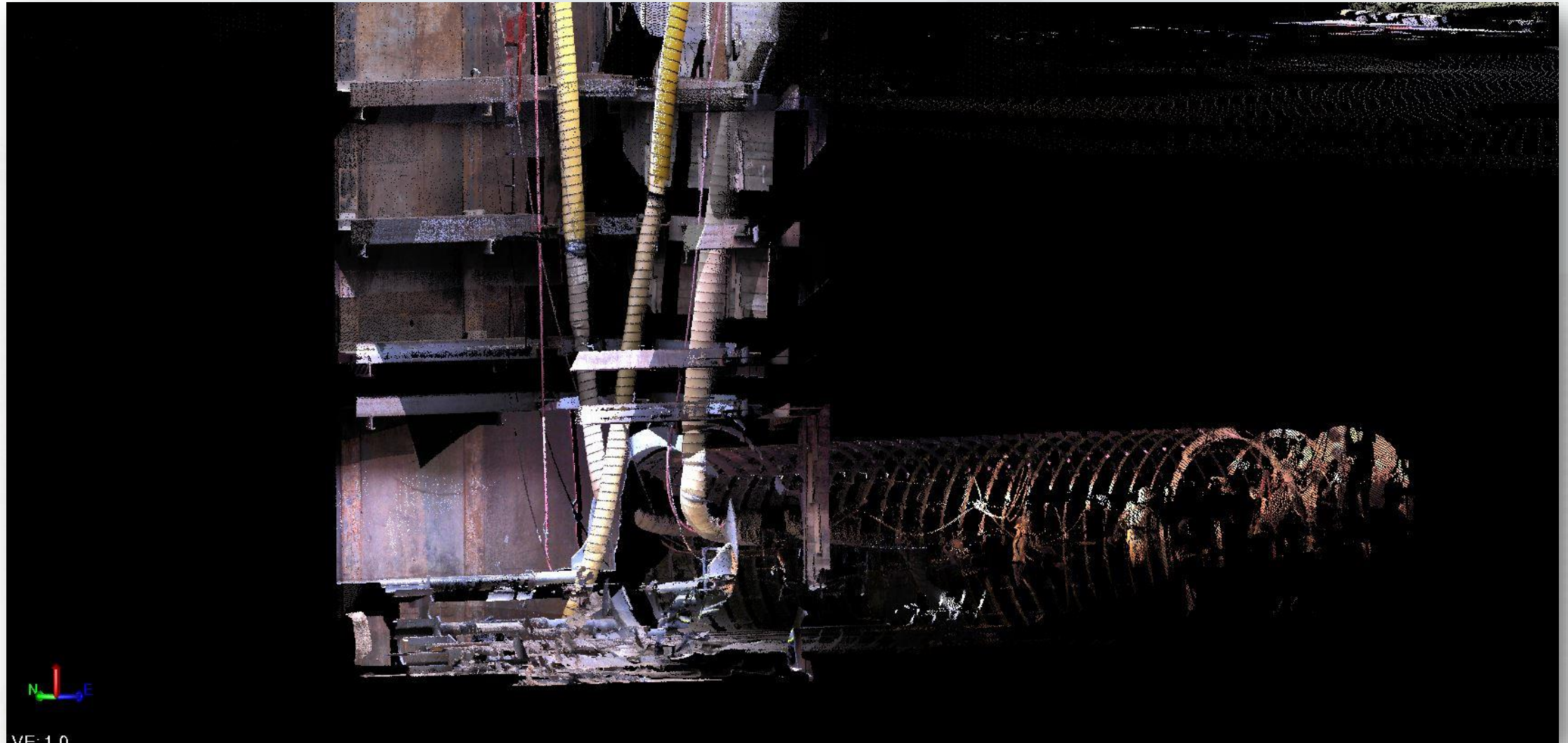
# Auger Bore Launch Pit & Equipment



# 3D Model Scan of Shaft & Tunnel



# 3D Model Scan of Shaft & Tunnel



VE-1.0



# Construction Progress – EWP 2 Filter Structure & TPS

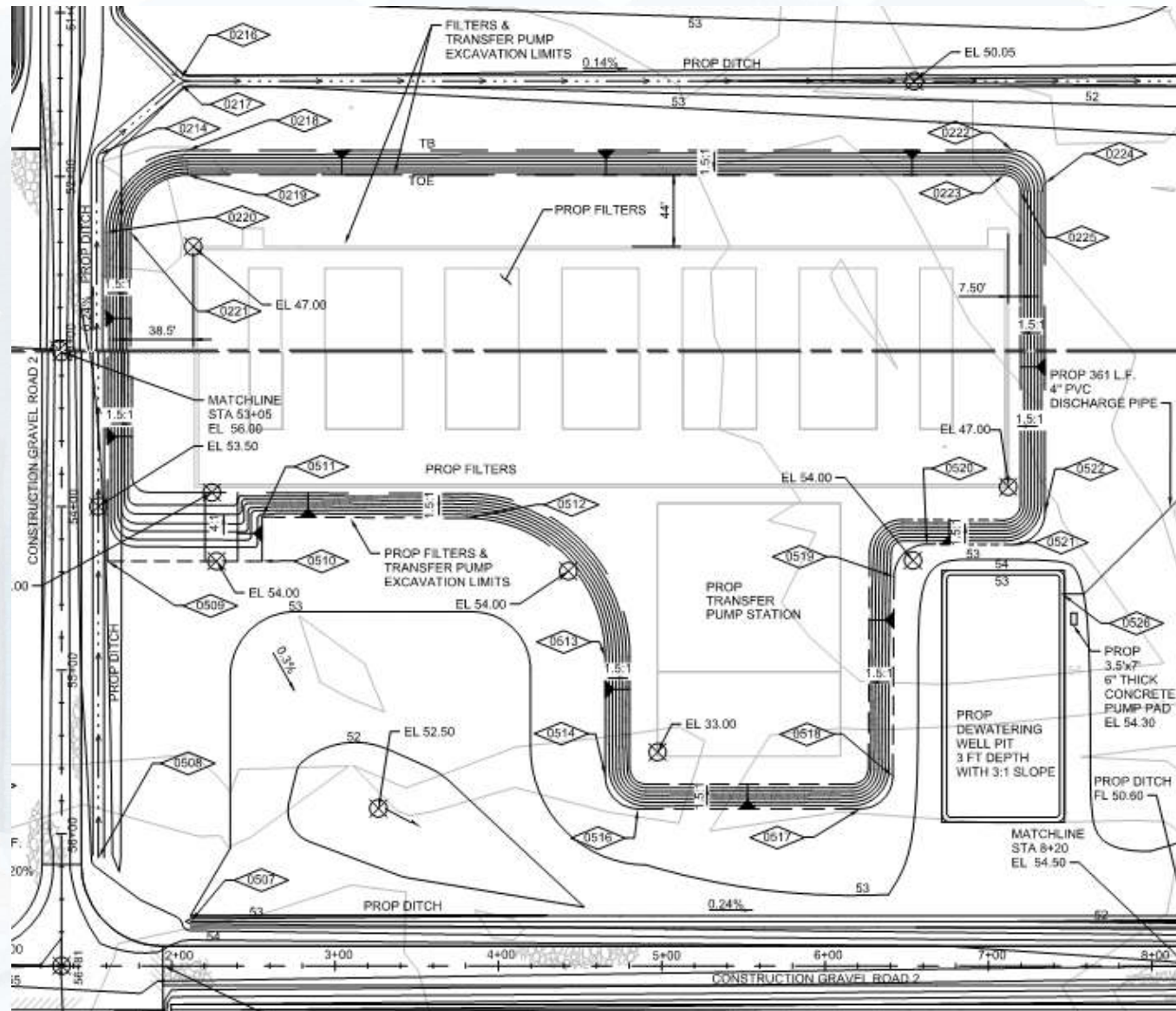
## **FILTER STRUCTURE:**

- **Excavating Interconnect vault**
- **Tying rebar and installing waterstop for walls**
- **Poured walls**

## **TPS:**

- **Backfilling and compacting TPS slab**
- **Stripping wall forms**





# Pouring wall C12 and Interconnect Vault slab





# Tying rebar on Interconnect vault and Stripping bypass vault forms



# Forming OZW Inlet Box Slab (West)



# Backfilling & Compacting TPS Slab



Houston Waterworks Team



# Backfilling & Compacting Behind TPS Retaining Wall



