



CITY OF HOUSTON
Houston Public Works

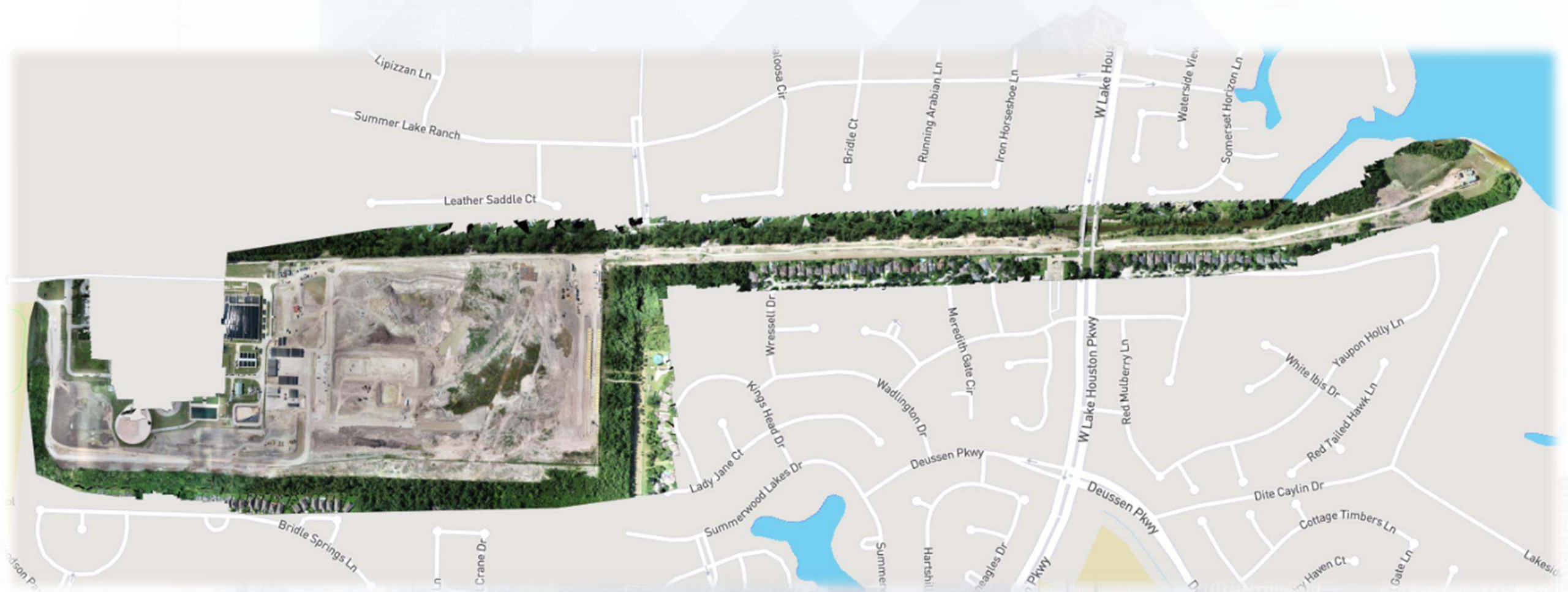
DESIGN-BUILD SERVICES


Northeast Water Purification Plant Expansion

Houston Waterworks Team



Aerial Map of Overall Site - June 8, 2018



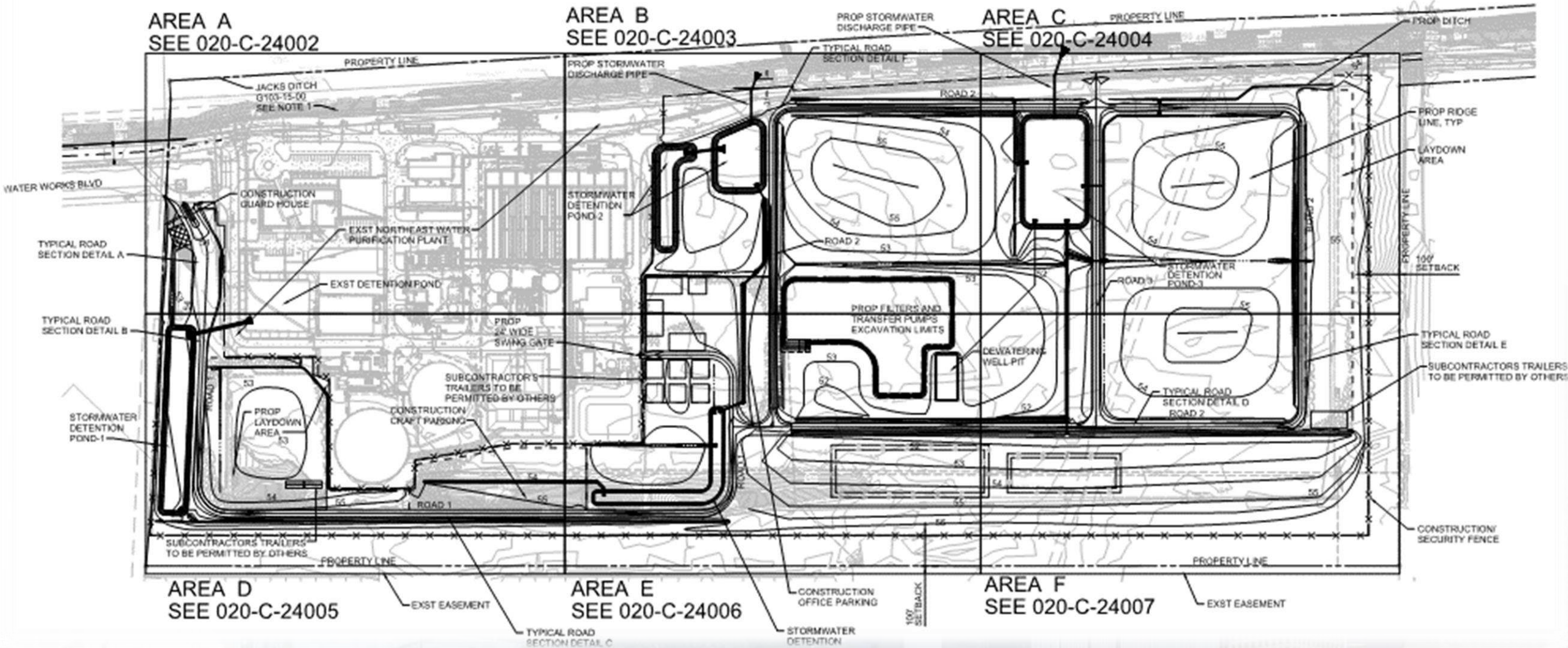


Construction Progress – EWP 1 MAIN PLANT

June 27, 2018

- **Assembling Engineering and Safety/Executive trailers**
- **Cutting/excavating/grading Pond 1**
- **Tested firewater lines**
- **Dewatering and excavating Transfer pump station**
- **Cut/fill and lime stabilizing craft parking lot and ditch**
- **Engineering & PMt moved into trailer**
- **Cutting Pond 3**





Grading and stabilizing craft parking lot and ditch




Excavating & Dewatering TPS Structure



Cutting Pond 3





Construction Progress – EWP 3 & 1 – Electrical

June 27, 2018

- **Energizing temporary system**
- **Wiring panel boxes at trailer city for land power**
- **Clean up and completing preliminary punch-list items**
- **Installing fence around new electrical equipment**
- **Demolishing existing power lines and poles**



Emergency fuel tank for IPS Generator



Demolishing power lines



Demolishing Power Poles





Construction Progress – EWP 4 – Raw Water Corridor

June 27, 2018

- **Installing fence posts in East corridor, North side**
- **Maintaining dewatering system**
- **Excavating shaft an installing shoring**
- **Grading swales for positive drainage in West Corridor**
- **Delivering 108” pipe**



Traffic Control in effect along WLHP



Modifications to Median Crossing Guard Rails



Modifications to Median Crossing Guard Rails



Excavating Shaft Entry, and installing shoring



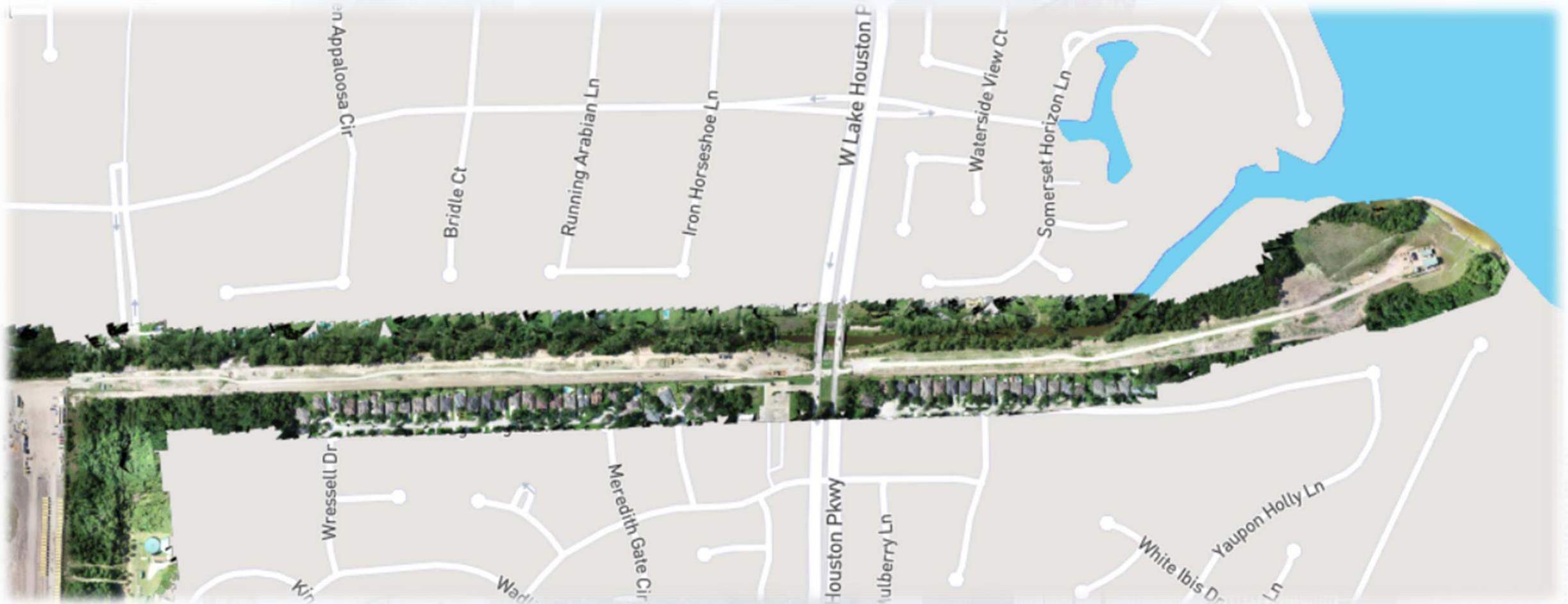
Installing Fencing in East Corridor (North side)



Cutting Swales in West Corridor



Aerial Map of Corridors – June 8, 2018



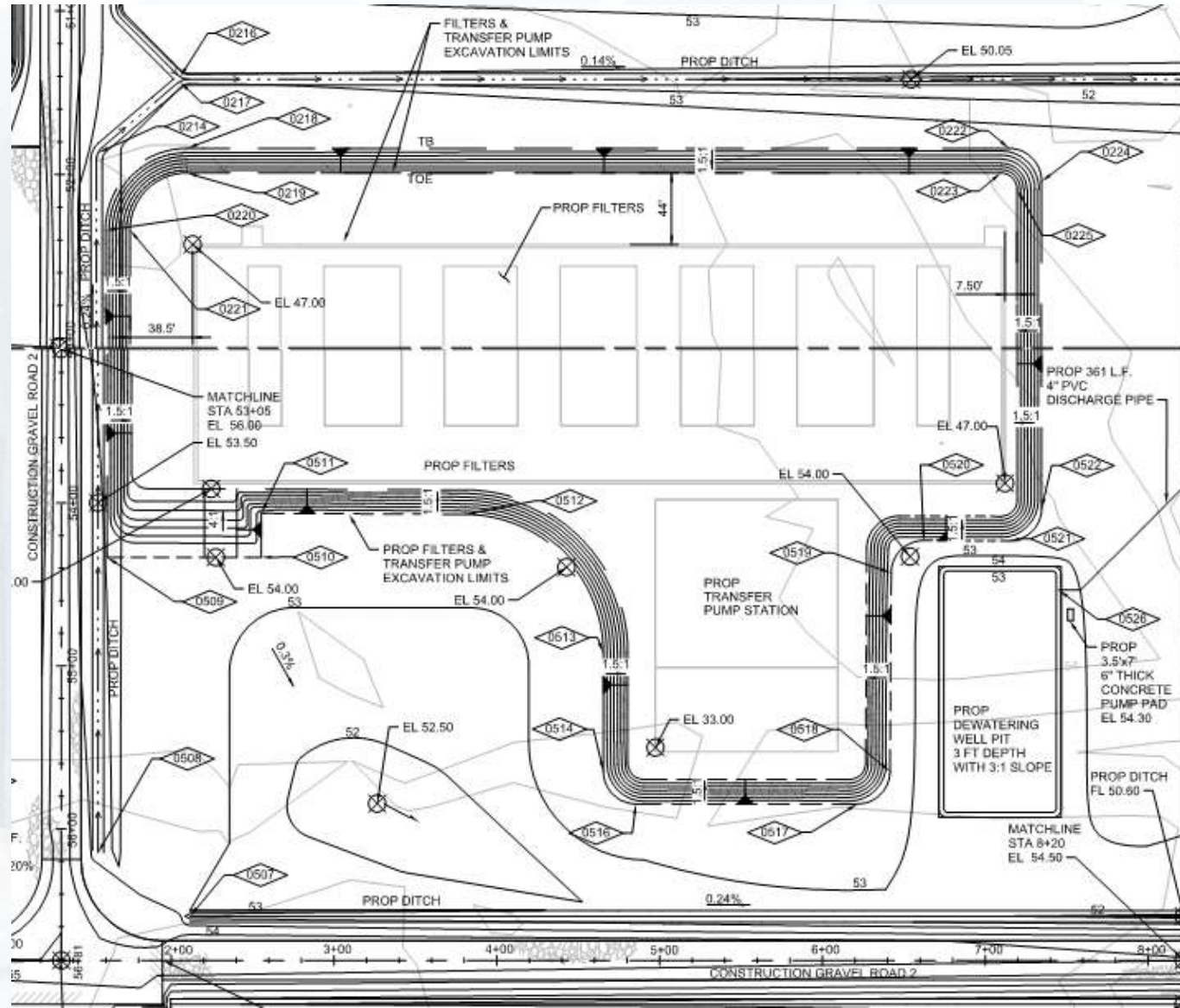


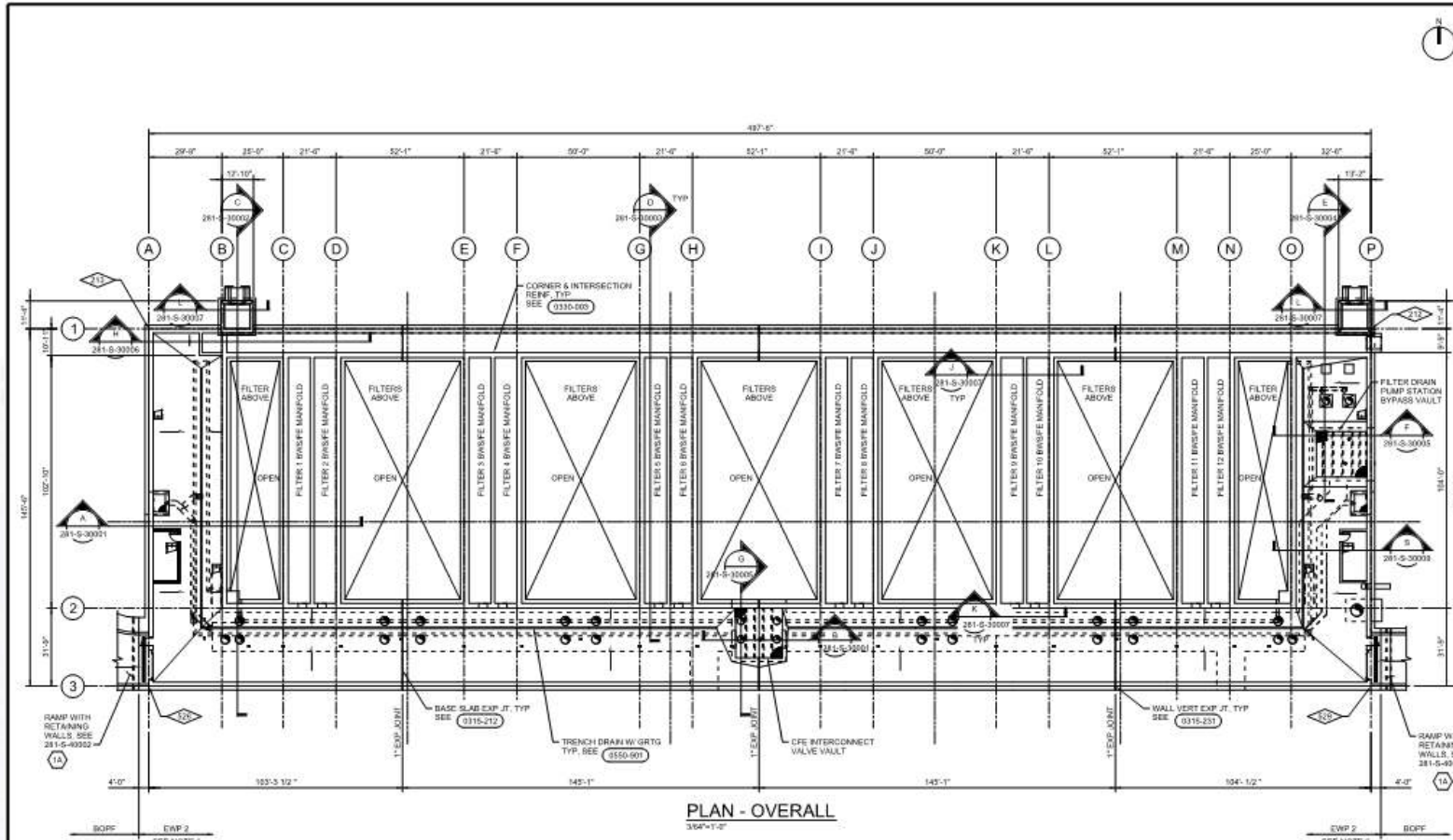
Construction Progress – EWP 2 Filter Structure & TPS

June 27, 2018

- **McCarthy mobilizing equipment and trailer to site**
- **Cutting filter structure to grade**
- **Lime stabilizing underslab**







GENERAL NOTES

1. --- DENOTES SLAB DOWNWARD SLOPE DIRECTION.
2. SEE CIVIL DRAWINGS IN EARLY WORK PACKAGE 1 (EWP-1) FOR FINISHED GRADE ELEVATIONS AND SITE LAYOUT INFORMATION.
3. COORDINATE ALL SLAB AND WALL OPENINGS' SIZE, TYPE AND LOCATION WITH MECHANICAL, HVAC, ELECTRICAL AND ARCHITECTURAL DRAWINGS. REFER TO STRUCTURAL STANDARDS DETAILS 030-011 AND 030-012 FOR ADDITIONAL REINFORCEMENT AROUND CONCRETE OPENINGS.
4. COORDINATE ALL CONCRETE AND PIPE PENETRATIONS, EXACT SIZE, ELEVATION AND LOCATIONS WITH ELECTRICAL AND MECHANICAL DRAWINGS.
5. COORDINATE EXACT DIMENSIONS AND THICKNESS FOR ALL EQUIPMENT PADS WITH EQUIPMENT MANUFACTURER.
6. IN EARLY WORK PACKAGE 2 (EWP 2) CONTRACT WORK INCLUDES ALL CONCRETE CONSTRUCTION INCLUDING ALL EMBEDMENTS WITHIN THE CONCRETE FROM 4'-0" TO THE WEST OF GRID LINE "A" TO 4'-0" TO THE EAST OF GRID LINE "P" THE FOLLOWING WILL BE INSTALLED AT A LATER DATE UNDER THE BALANCE OF PROJECT FACILITIES (BOPF) AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - A. ALL STEEL CONSTRUCTION (CATWALK SYSTEM GRATING, SUPPORT BEAMS, PRE-ENGINEERED METAL STAIRS, PIPE SUPPORTS, ETC)
 - B. ALL ALUMINUM CONSTRUCTION (GRATING, BALUNGS, GRATING SUPPORT BEAMS, ETC)
 - C. ALL MASONRY CONSTRUCTION
 - D. EAST AND WEST RAMP CONSTRUCTION SHOWN IN 281-S-40302
 - E. CONCRETE EQUIPMENT PADS AND CONCRETE PIPE SUPPORTS DOWNED INTO SLAB USING POST-INSTALLED EPOXY DOWELS.

(SEE BELOW FOR ADDL GENERAL NOTES)

1	21/18 ISSUED FOR CONSTRUCTION	FR
APPROVED:	R. ROGERS	DATE: DECEMBER 2017
DESIGNED BY:	BLANKENHORN	DRAWN BY: B. BENNETT
CHECKED BY:	CHYZANOWSKI	X-CMD BY: S. FINEGAN



SURVEYED BY: BROWN FD NO. P-5009
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 NORTHEAST WATER PURIFICATION PLANT EXPANSION
 FILTER MODULE 1
 STRUCTURAL FOUNDATION PLAN OVERALL

FOUNDATION NOTE

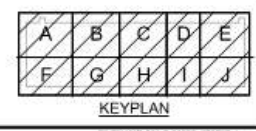
ITEM ON HOLD: SUBGRADE PREPARATION WILL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AS A MINIMUM BACKFILL BELOW EXCAVATIONS WILL BE COMPACTED TO MINIMUM 95% OF MAXIMUM DRY DENSITY PER ASTM D698 UNLESS SPECIFIC GEOTECHNICAL ENGINEERING WRITTEN RECOMMENDATIONS ARE PROVIDED.

GENERAL NOTES (CONT'D)

7. FOR WALL CONSTR JT SPACING, SEE STANDARD DET 0315-131. SLAB CONSTR JT SHALL BE LOCATED AT WALL CONSTR JT LOCATIONS. SUBCONTRACTOR SHALL SUBMIT PROPOSED CONSTR JT LAYOUT TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO REBAR SHOP DRAWING SUBMITTAL.
8. SEE 001-G-03507A THRU 001-G-00037E FOR OTHER STRUCTURAL NOTES.
9. ALL DOOR OPENINGS' SIZE AND LOCATION SHALL BE COORDINATED WITH ARCHITECTURAL BOPF DRAWINGS PRIOR TO FORMING THE OPENING. DESIGNER SHALL BE NOTIFIED TO DO INSPECTION OF FORMWORK PRIOR TO CONCRETE POUR.
10. --- DENOTES SITE CONTROL POINTS. SEE SITE CIVIL DWGS IN EARLY WORK PACKAGE 1 (EWP-1) FOR SITE COORDINATES.

SHEET KEYNOTES

- 1A. COMPONENT INSTALLED AS PART OF BOPF.



<p>0 1</p> <p>IF THIS BAR DOES NOT MEASURE 1" TO SCALE</p> <p>ENCL NO</p> <p>281-S-20200</p>	<p>WDS NO.</p> <p>5-00000-0005-4</p> <p>DRAWING SCALE</p> <p>3/64" = 1'-0"</p> <p>CITY OF HOUSTON PW</p> <p>RAJINDER SINGH</p> <p>SHEET NO. 10 OF 111</p>
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EWP2 - ISSUED FOR CONSTRUCTION



Cutting underslab to grade



Lime Stabilizing and mixing filter underslab



Spreading gravel for EWP2 laydown yard

