



WATER PURIFICATION PLANT EXPANSION

Public Meeting

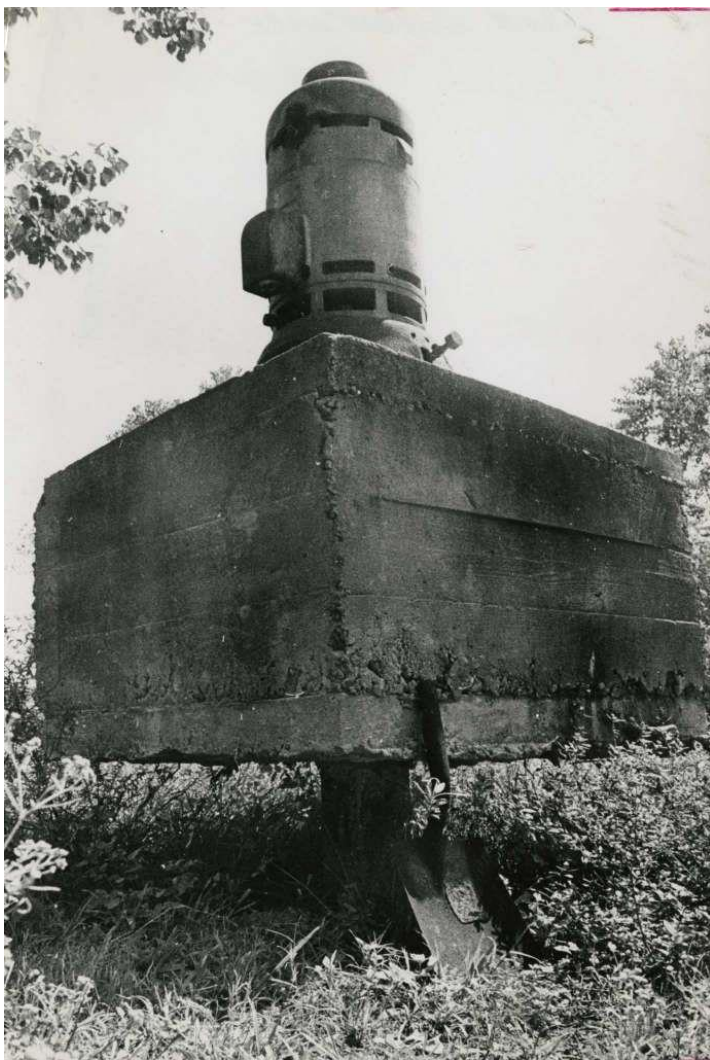
May 1, 2018



Central Harris County
Regional Water Authority

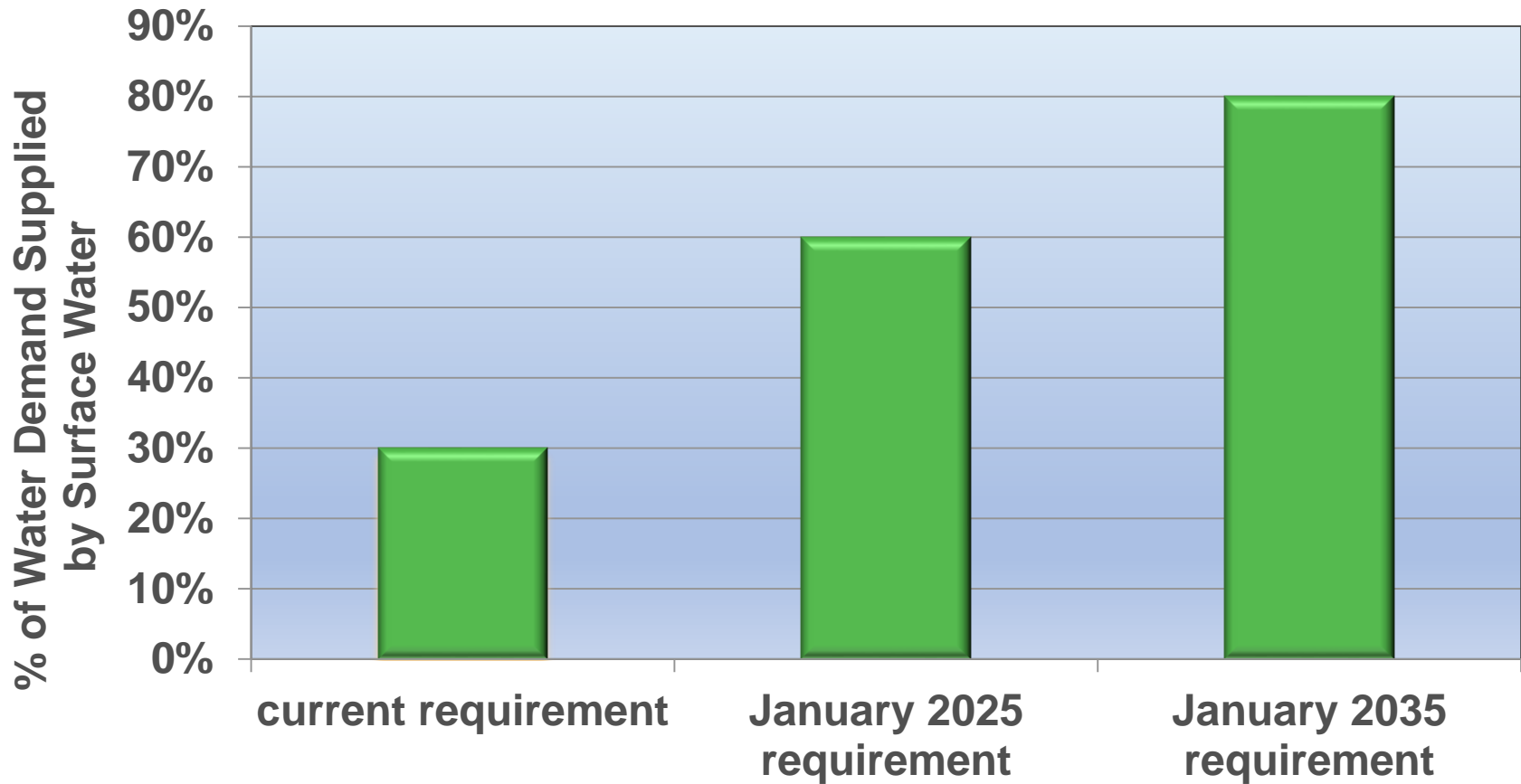


Why Does the Northeast Water Purification Plant Need to be Expanded?



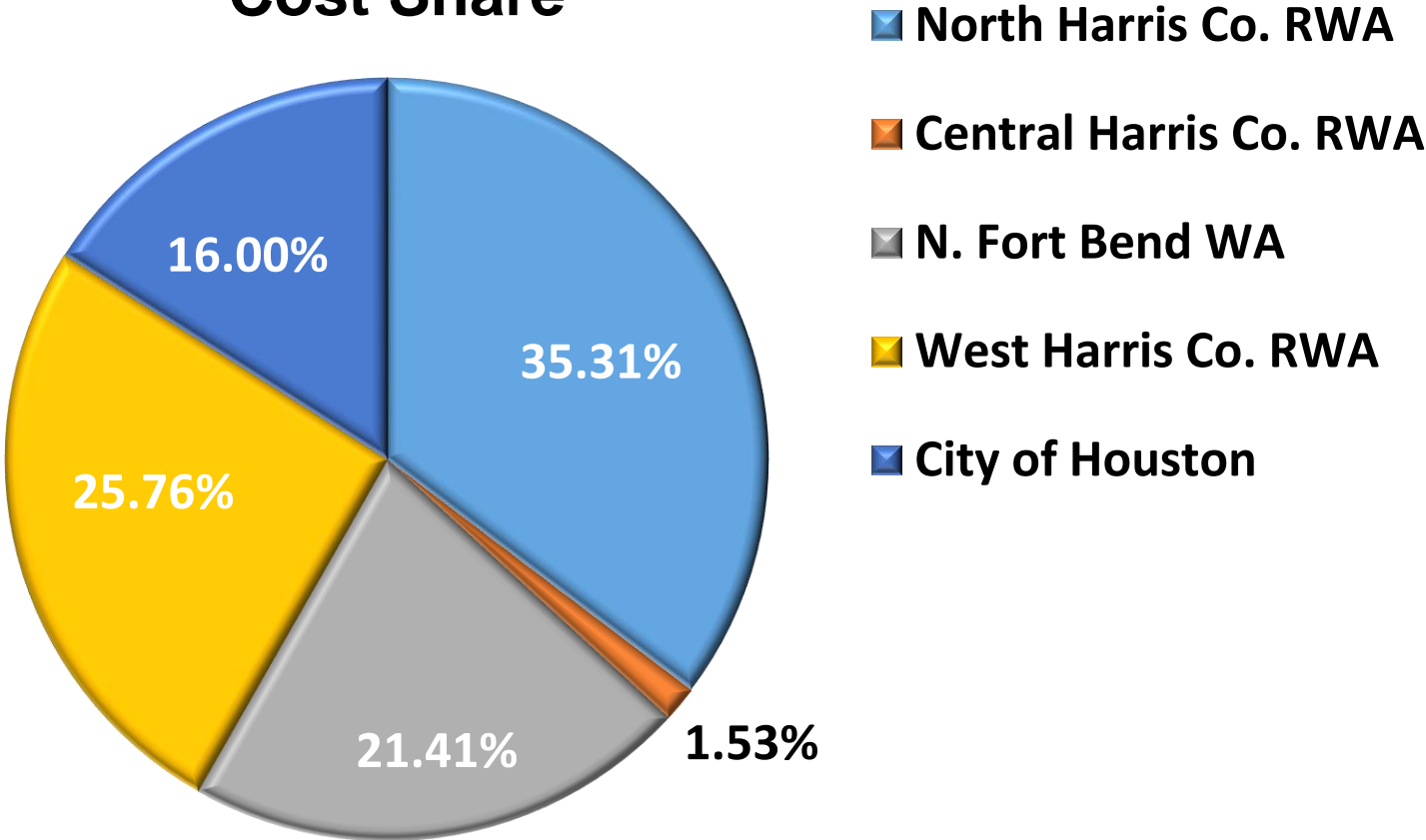
- Parts of Harris County have dropped between 10 and 12 feet since the 1920s, according to data from the U.S. Geological Survey
- Over the last century, aquifers here have lost between 300 and 400 feet, leaving the land to collapse.

NEWPP Expansion Necessary to Meet Groundwater Subsidence Regulations

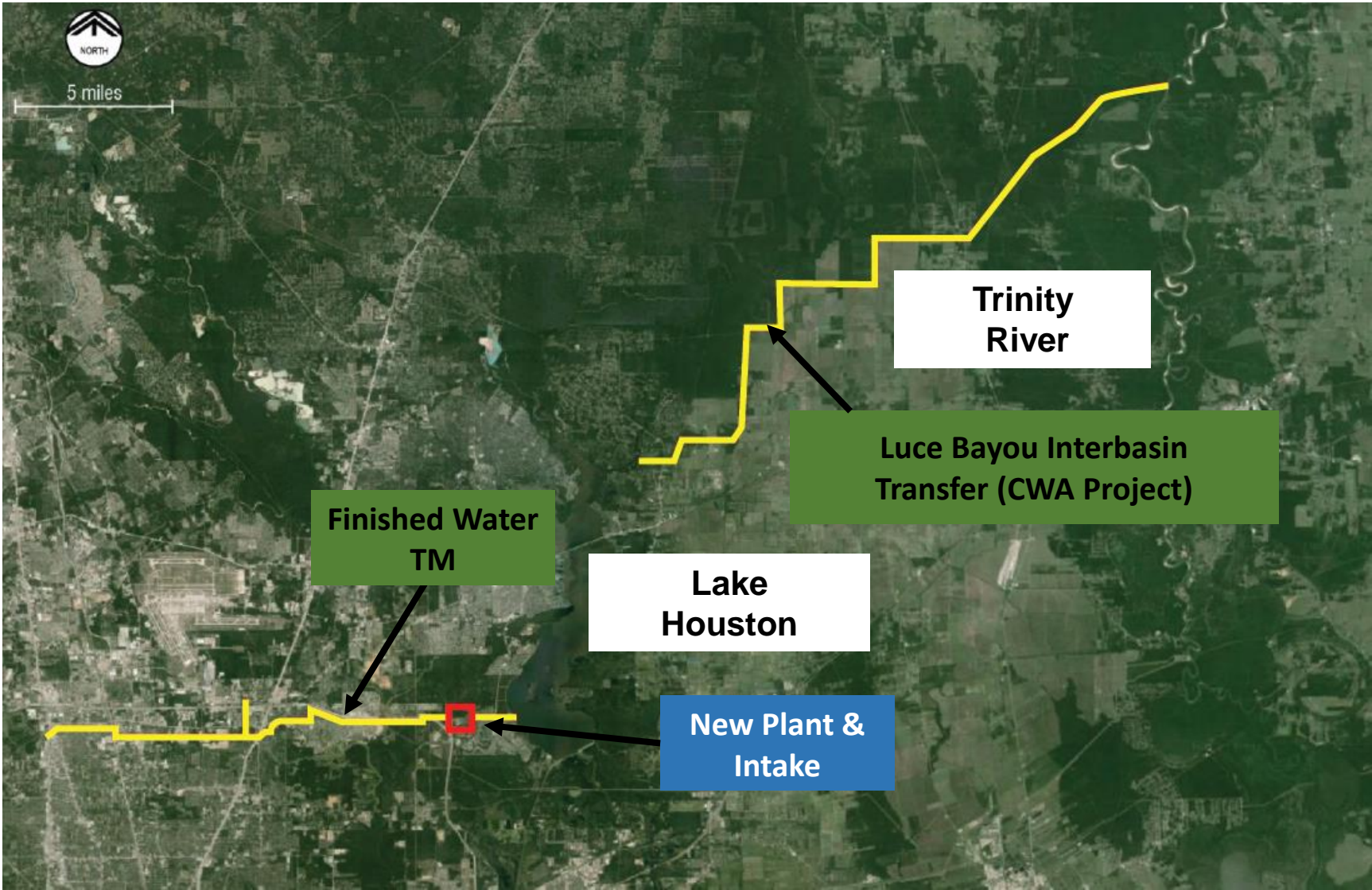


Houston is Delivering this Project on Behalf of Four Authority Partners

Cost Share



NEWPP Expansion is One Piece of a Regional Water Delivery Plan



NEWPP Expansion Project Overview

- **This plant treats Lake Houston water and turns it into drinking water for parts of Harris and Fort Bend counties and surrounding areas.**
- **Reasons for the Project**
 - *Groundwater to Surface Water*
 - *Finished Water Production Needs of the City and its Authority Partners*
 - *Meet all Applicable Drinking Water Standards*
- **Major Construction Elements**
 - *320 Million Gallons Day Water Plant Construction*
 - *Intake Pump Station at Lake Houston*
 - *Raw Water Pipeline in Corridor – Approximately 1 Mile*

320 Million Gallons per Day Plant Expansion



New Intake Pump Station in Lake Houston will Supply Raw Water to Plant



Raw Water Pipeline in Corridor



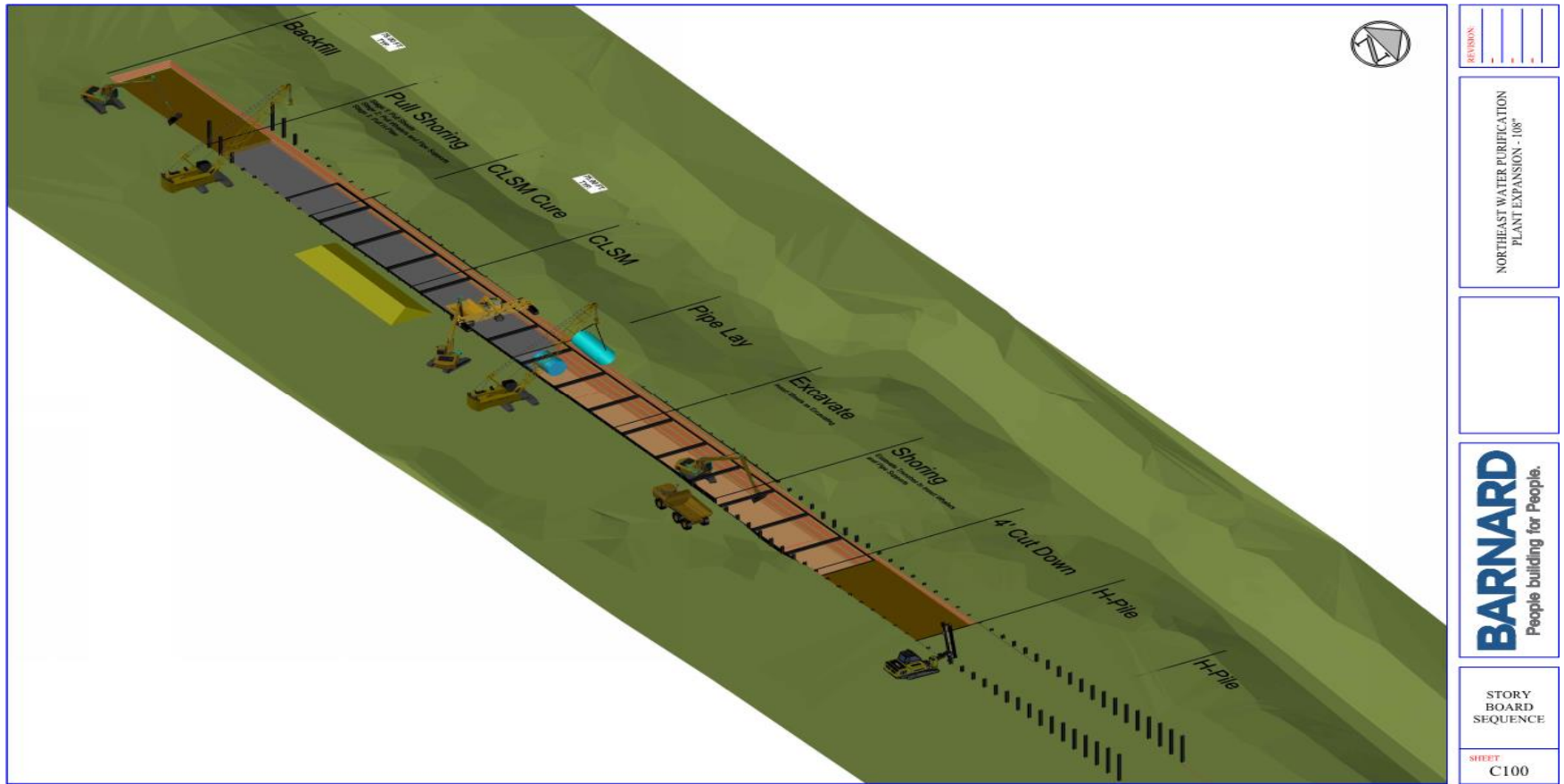
Overall Construction Area



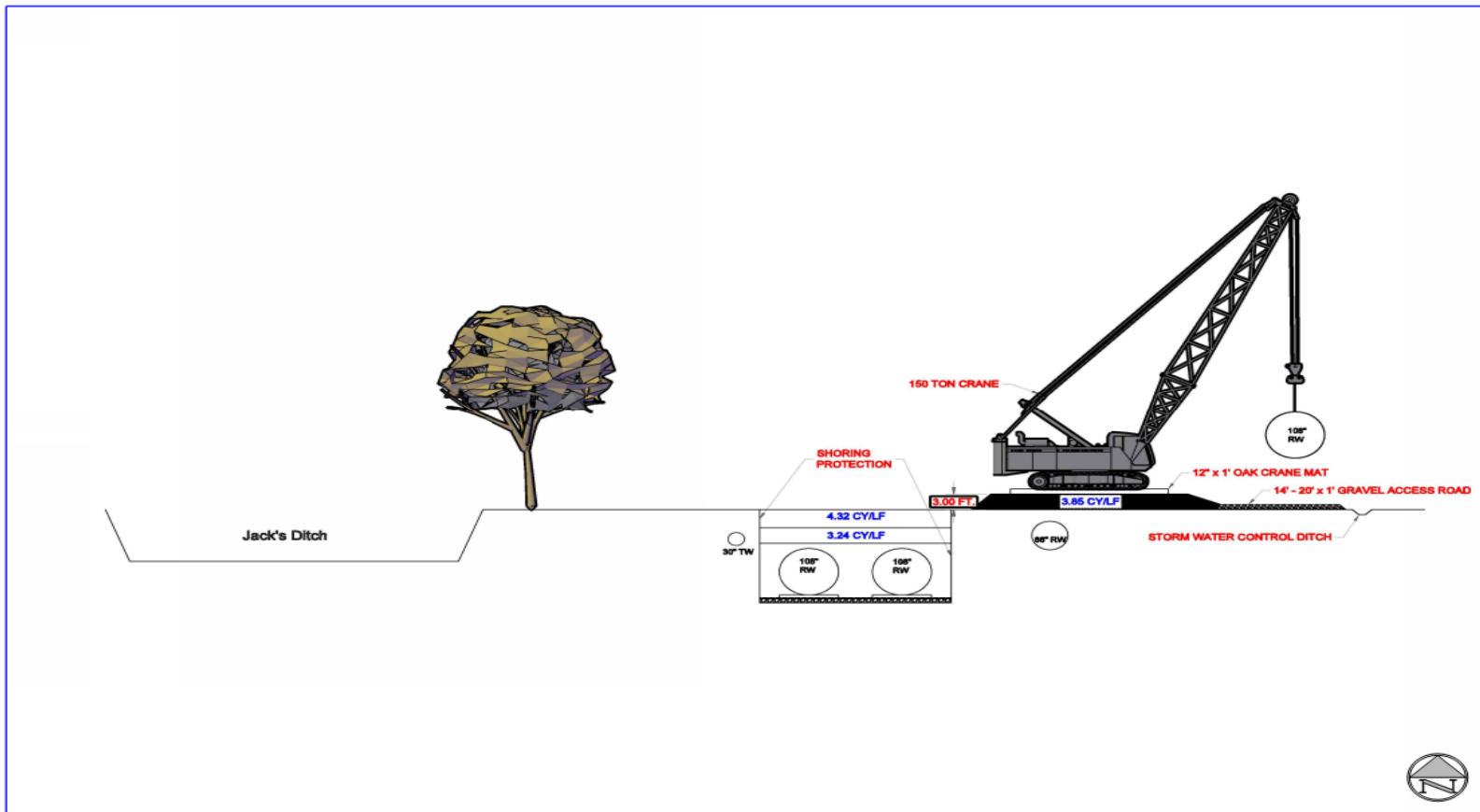
Sequence of Activity in Pipeline Corridor

- About a month of heavy construction activity per 100'
 - *Shoring – installing support around where the pipes will be*
 - *Excavate – remove the soil making room for the pipes*
 - *Pipe Installation & Welding – insert the pipes and join them*
 - *Place Flowable Backfill – add material around the pipes*
 - *Remove Shoring – remove the supports*
 - *Backfill with Soil – put the soil back around the pipes*
- Continual Construction Traffic
 - *Equipment – large excavation equipment will be needed*
 - *Trucking – large trucks bringing in and taking out materials*
 - *Pipe Deliveries – large segments of 108” pipe delivered*
 - *Construction Workers – nearly 1,000 workers on the project*

Sequence of Raw Water Corridor Pipeline Installation



Raw Water Corridor Pipeline



REVISION:	
NORTHEAST WATER PURIFICATION PLANT EXPANSION - 108"	
BARNARD People building for People.	
TYPICAL SECTION VIEW	
SHEET C101	



Median Crossing at West Lake Houston



Schedule of Events for Next 3 - 6 Months

- Land Clearing and Grubbing
 - *March - April 2018*
- Dust Control Fencing Installation
 - *April - May 2018*
- Removal of Overhead Power Lines
 - *May 2018*
- Tunneling at West Lake Houston Parkway
 - *May – November 2018*
- Pipeline Installation (West to East Progression)
 - *May 2018 – March 2019*

How Will You Get Information?

- Transparency is important. Our goal is to keep our neighbors informed about the project as it progresses.

Updates will be provided on our website at:

www.greaterhoustonwater.com

Call us at 281-520-3777

Public meetings will be held each quarter.

What questions do you have?

Questions & Answers