

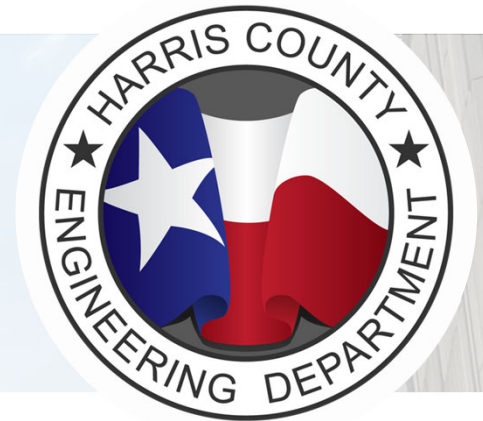
HARRIS COUNTY
OFFICE OF THE
COUNTY ENGINEER

**Harris County Engineering Department
Recovery & Resiliency Division**

**Timberlake Estates Subdivision Drainage
Improvements Project**

Date: April 18, 2023

PRESENTER: ISABEL S. FUNG, P.E., PMP
PROGRAM MANAGER



AGENDA

- Introduction
- Project Overview
 - Project Goals
 - Project Benefits
 - Project limits
- Proposed Improvements
 - Proposed Storm Sewer System and Roadway Improvements
 - Proposed Stormwater Detention Basin
- Project Life Cycle
- Project Status
 - Project Schedule
 - Agreements
- Total Project Budget



PROJECT GOALS

- To Reduce the risk of Structural Flooding near 100 - year Storm Event (1% AEP)
- Improve the Storm System Conveyance Capacity
- Asphalt Roadway Replacement and Roadside Ditches Improvements
- Mitigate Subdivision Drainage Improvements within the Existing Amenity Lake



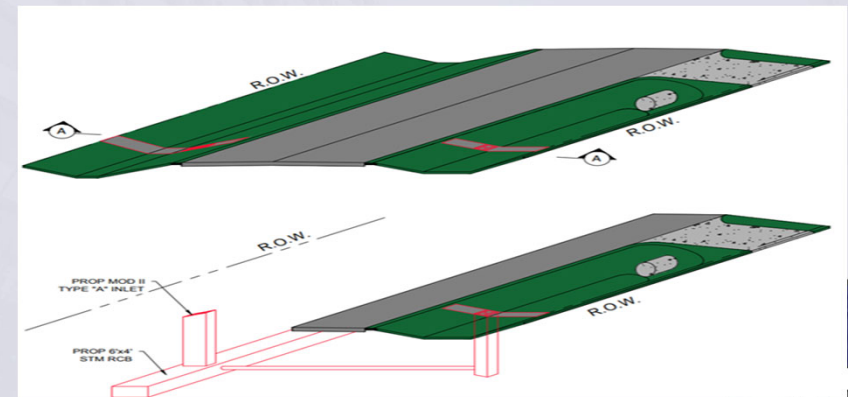
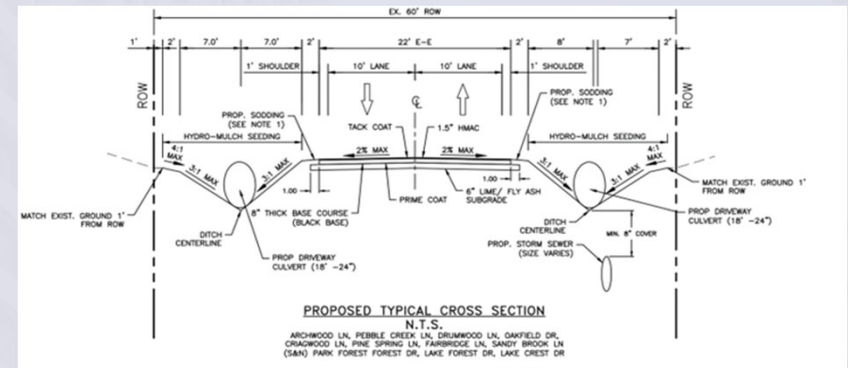
PROJECT BENEFITS

- Reducing the risk of structure flooding for approx. 78 homes at the 2-year, 10-year, and 100-year storm events
- Replacing of 56,000 SY of Asphalt Roadway
- Improvement of approx. 37,000 LF Roadside Ditches
- Improvement of Approx. 8,000 SY of Driveways
- Adding of 32 Acre-Feet of Volume For the Proposed Storm Water Detention Basin

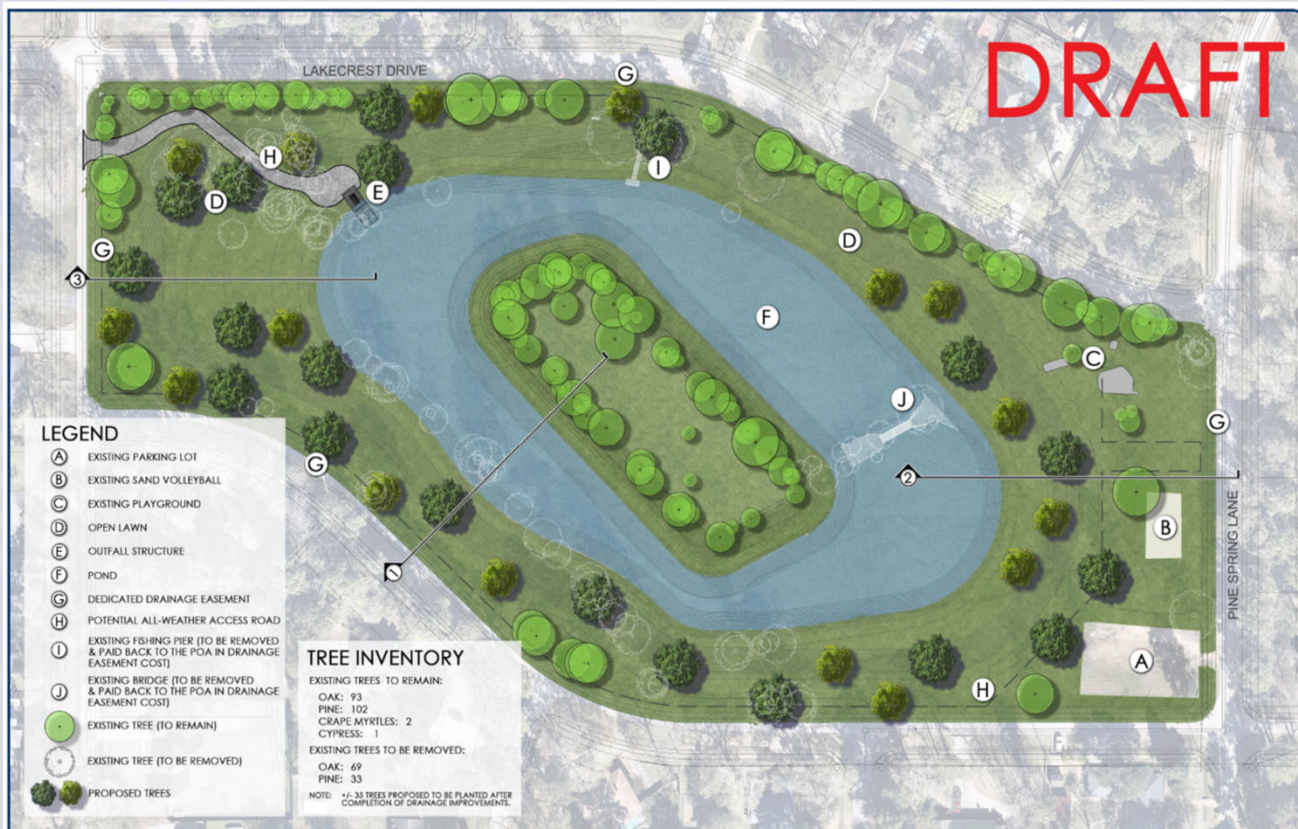


PROPOSED IMPROVEMENTS WITHIN THE SUBDIVISION

- Storm sewer systems ranging from 24-inch to 36-inch RCP
- Regrading the existing roadside ditches
- Proposed underground storm sewer system
- Asphalt pavement replacement

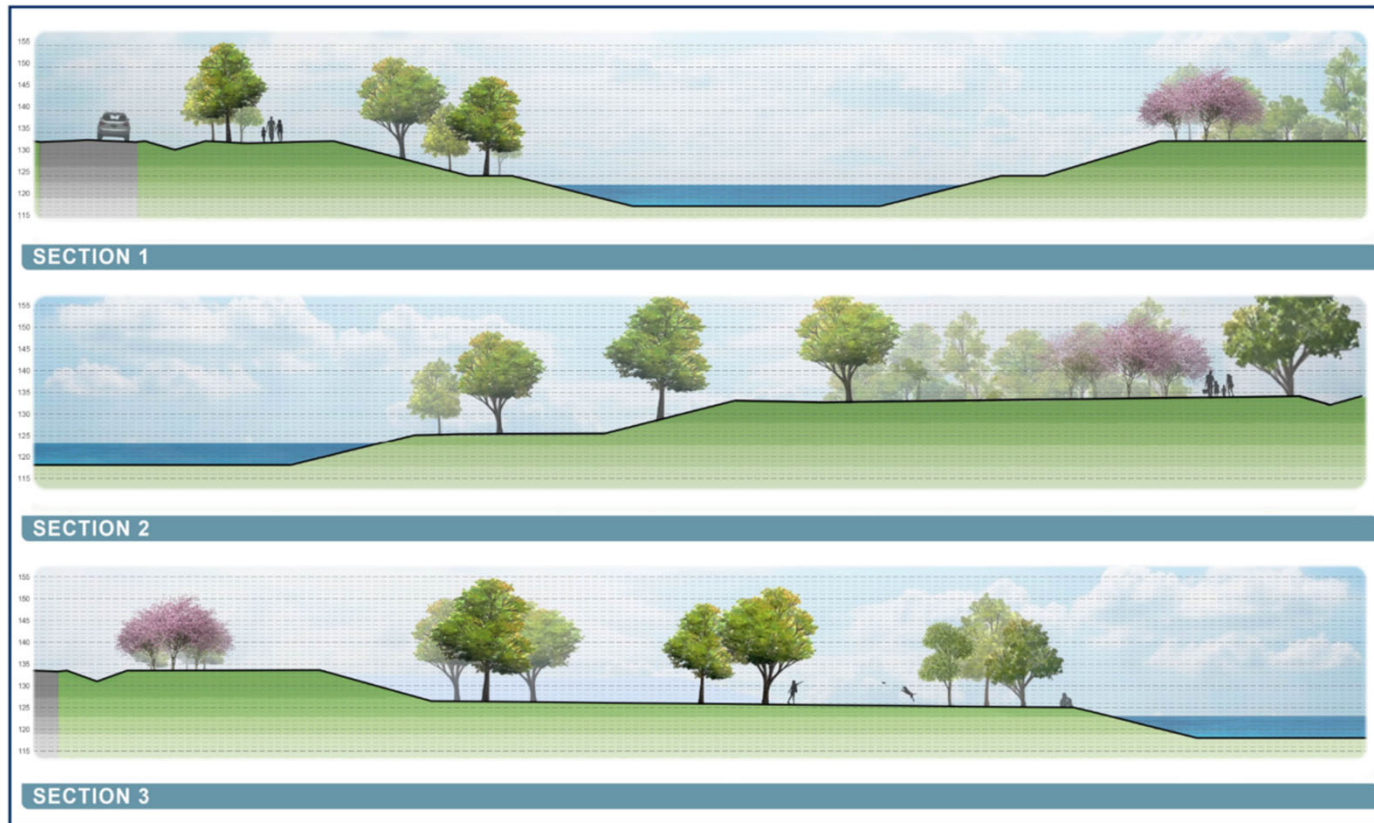


PROPOSED STORMWATER DETENTION BASIN



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PROPOSED STORMWATER DETENTION BASIN PROFILE



PROJECT LIFE CYCLE



PROJECT STATUS

AGREEMENTS

Utility Interlocal Agreement (ILA) #1

- Utility Conflicts / Relocations

Drainage Easement Interlocal Agreement (ILA) #2

- Maintenance Responsibilities
- ROW Acquisition (Lake Expansion)
- Amenities

PROJECT SCHEDULE

Design , ILA and ROW	3 rd Quarter 2023
Bid/Advertise Project	3 rd Quarter 2023
Construction Start	4 th Quarter 2023
Construction Finish	4 th Quarter 2024



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TOTAL PROJECT BUDGET
\$15,808,712.00

Design Costs

Construction
Costs

Utility
Relocation
Costs

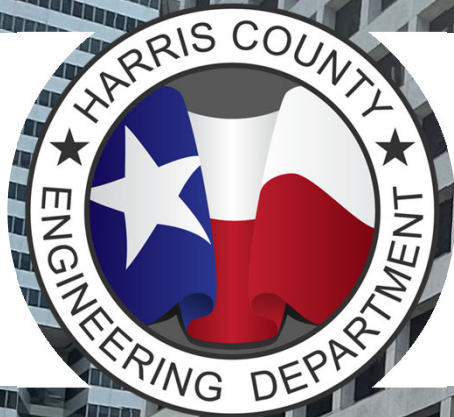
Easement
Costs



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Questions???





THANK YOU!

Harris County Engineering Department

1111 Fannin Street, 11th Floor

Houston, TX 77002

www.eng.hctx.net

