

Lake Houston Dam Spillway Improvement Project

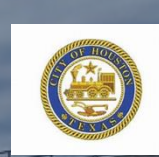
District E Town Hall Project Update

September 22, 2026

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Project purpose

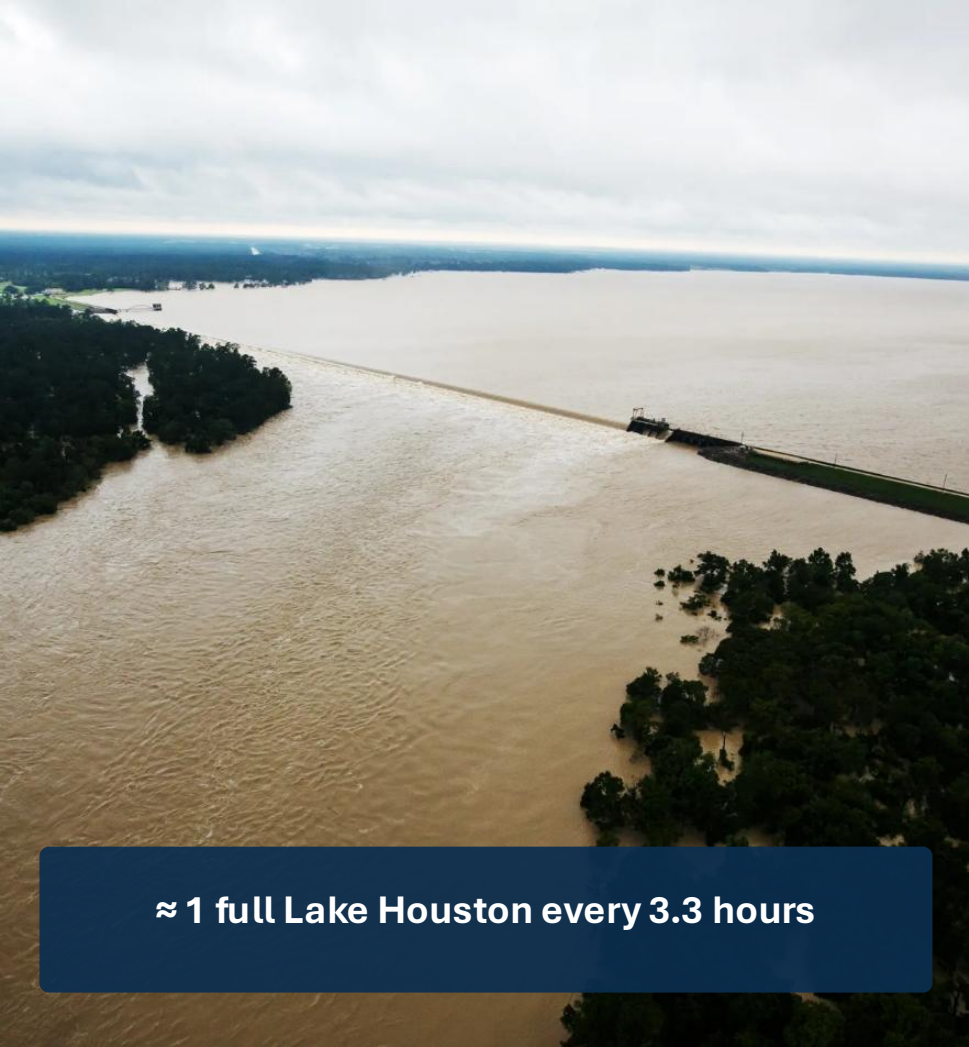
**Increase controlled-release capacity and
improve lake-level management.**



City of Houston + Coastal Water Authority

Hurricane Harvey Demonstrated the Scale of the Challenge

Key metrics illustrating the scale of the event at Lake Houston



≈ 1 full Lake Houston every 3.3 hours

847B gal

Approx. event volume

2.6 million acre-feet

491,800 cfs

Peak flow

cubic feet per second

53.1 ft

Peak water surface elevation

Lake Houston during the event

≈19×

Lake Houston storage

Event volume equivalent

Scale in everyday terms

The event volume was equivalent to more than five years of Houston water supply.

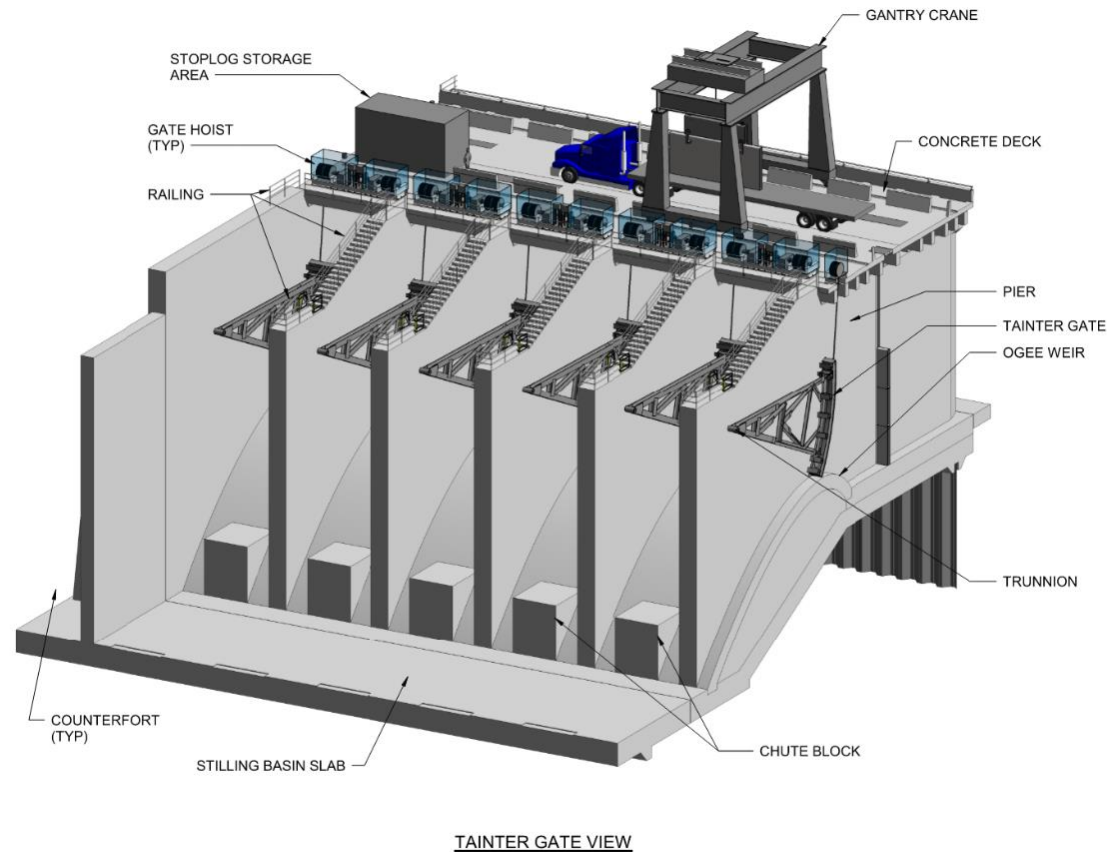
Where the New Spillway Gates Will Be Built

The proposed structure is located immediately east of the existing gates



Proposed 11-Gate Spillway Structure

New gated release capacity is designed to improve operational flexibility at Lake Houston



84,000 cfs

Design discharge capacity

(cubic feet per second)

Why this size?

The gate structure size was optimized to balance upstream flood-risk reduction with downstream risk considerations.

Modeling Indicates Lower Flood Risk With the New Gates

Results shown for the 1% annual-chance (“100-year”) and Harvey scenarios

≈1.8 ft

**lower modeled peak
Lake Houston level**

in both evaluated scenarios

*Model result — not a guarantee of future
flood performance*

Storm scenario	Existing dam	With new gates	Modeled reduction in structures at risk
1% annual chance (“100-year”)	1,539	1,216	323 (21.0%)
Harvey scenario	3,399	2,766	633 (18.6%)

Important context

Flood risk remains. Actual benefits depend on the characteristics of each specific storm.

Additional Controlled-Release Capacity Supports Future Dam Work

The new gated spillway can provide added operational flexibility during future dam rehabilitation or replacement

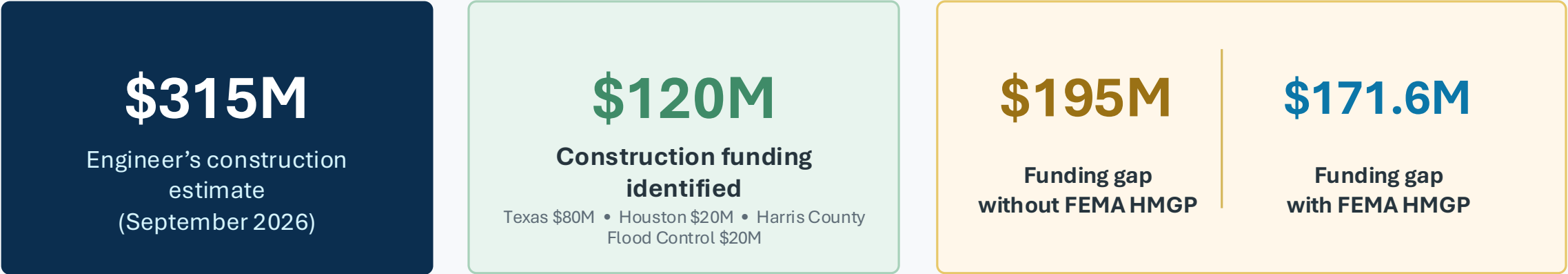


Why it matters beyond the spillway project

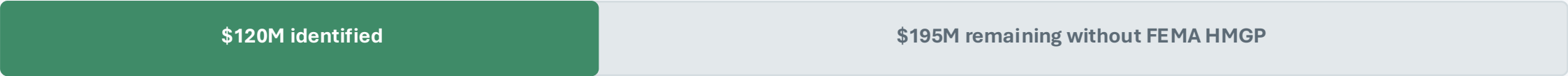
- 1 Adds controlled-release capability for managing lake levels
- 2 Provides operational flexibility while major dam work is underway
- 3 Supports sequencing of future rehabilitation or replacement activities

Construction Funding Status

Current estimate and funding figures as presented for September 2026

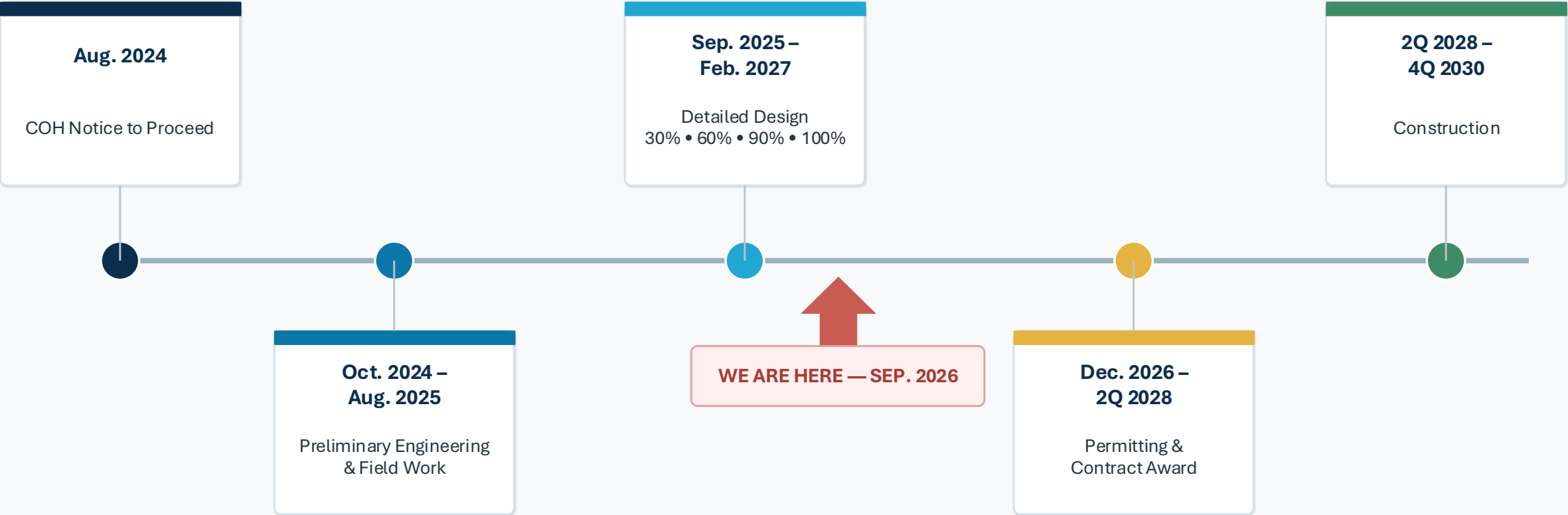


Current funding picture



Project Schedule

Current project sequence from notice to proceed through construction



Detailed design is underway. Construction is currently shown beginning in the second quarter of 2028.

Questions?

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