TRINITY RIVER CORRIDOR

MODIFIED DALLAS FLOODWAY PROJECT UPDATE May 12, 2015

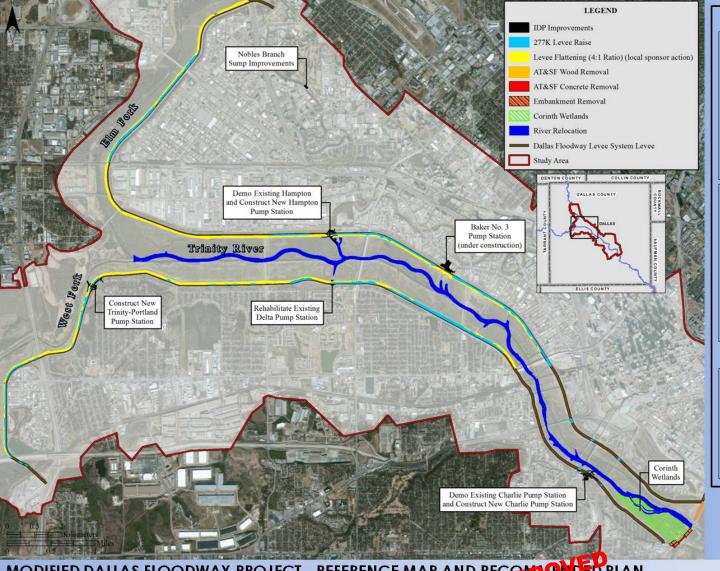
Jon Loxley

Project Manager Dallas Floodway Project Fort Worth District U.S. Army Corps of Engineers









Flood Risk Management

- 277,000 cfs levee raise with AT&SF Bridge Modifications
- Emergency Action Plan improvements
- Levee side slope flattening to 4H:1V (Betterment @ 100% local cost)
- Interior Drainage Plan Phase I - Baker and Hampton Pump Stations; Nobles Branch Sump Improvements
- Interior Drainage Plan
 Phase II Charlie, Delta,
 New Trinity Portland Pump
 Stations

Ecosystem Restoration

- River Relocation (add meanders to approx. 8 miles of the Trinity River in the Floodway)
- Approx. 80 acre wetland in Floodway





MODIFIED DALLAS FLOODWAY PROJECT - REFERENCE MAP AND RECONDED PLAN



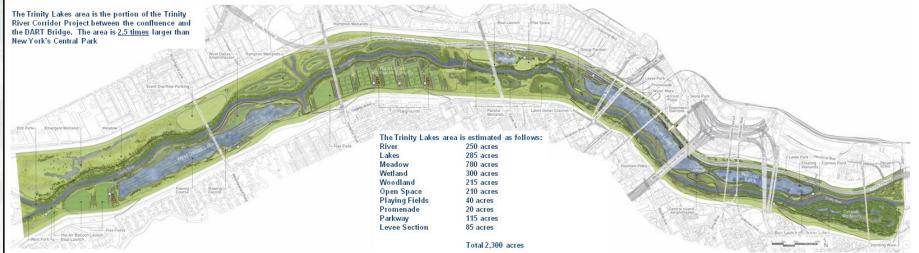




With its 2,300 acres, the Trinity Lakes area of the Balanced Vision Plan will augment, by more than 10 percent, the city's overall green space assets, more than doubling the miles of trails and outdoor venues. No other city green space will match the variety of activities or the richness in landscape—both urban and natural—of the Trinity Lakes area.

Although the existing Trinity River floodplain is already an altered landscape and will be further altered through the construction of the project, the design intent is to create or re-create, self-sustaining, viable and high ecologically functioning landscapes that reflect the native landscapes of the region.





CITY OF DALLAS BALANCED VISION PLAN RENDERINGS - THE TRINITY RIVER CORRIDOR DESIGN GUIDELINES (2009)





Dallas Floodway Project

Milestone: April 21, 2015

Jo-Ellen Darcy, Assistant Secretary of the Army (Civil Works), signs the Record of Decision

Two documents approved

- Final Environmental Impact Statement
- Final Feasibility Report

Conclusion

Dallas Floodway Project could proceed





Tonight's Trinity Talk



- **Approved Modified Dallas Floodway Project**
- **USACE Next Steps for the Modified Dallas Floodway Project**





Government Partners

Complex project with many participants, many responsibilities and one shared goal - LIFE SAFETY IS PRIORITY NO. 1.

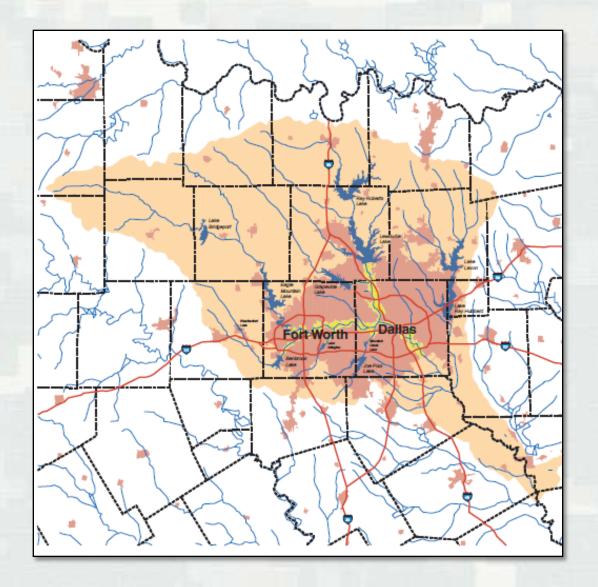
- Corps of Engineers
- City of Dallas / NF Sponsor
- Dallas County
- North Texas Tollway Authority
- Texas Dept. of Transportation
- Fed. Highway Administration
- EPA
- FEMA
- Texas Commission on Environmental Quality
- North Central Texas Council of Governments







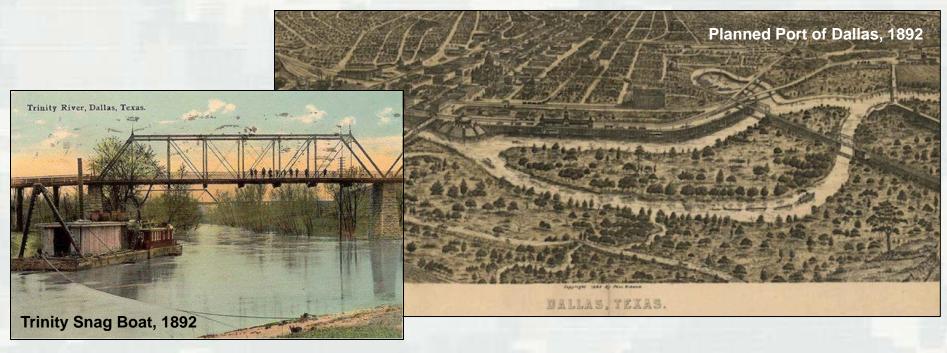
Upper Trinity River Watershed

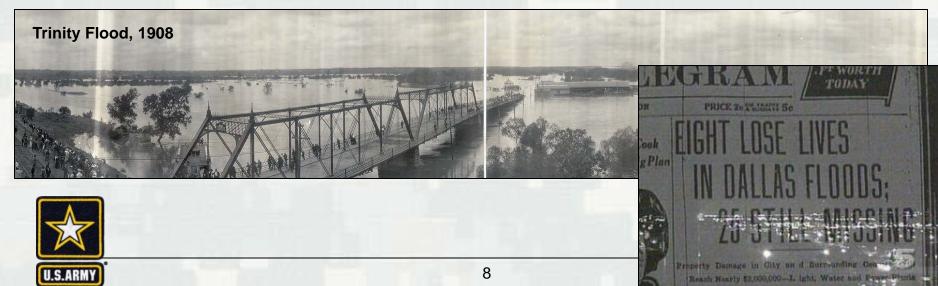


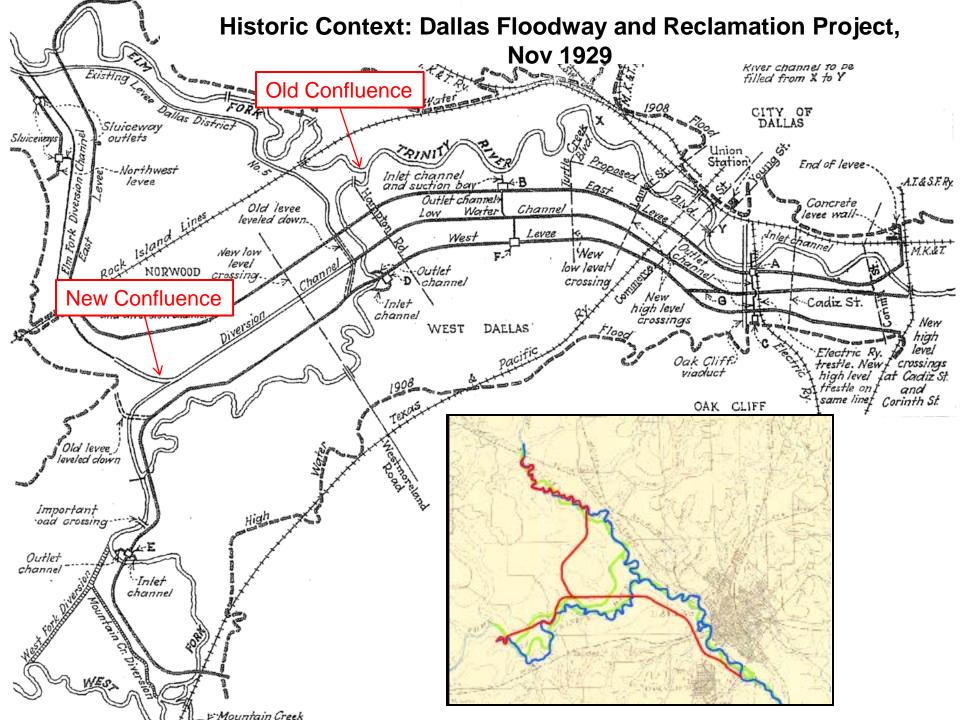




Historic Context: Trinity River, Dallas, Texas



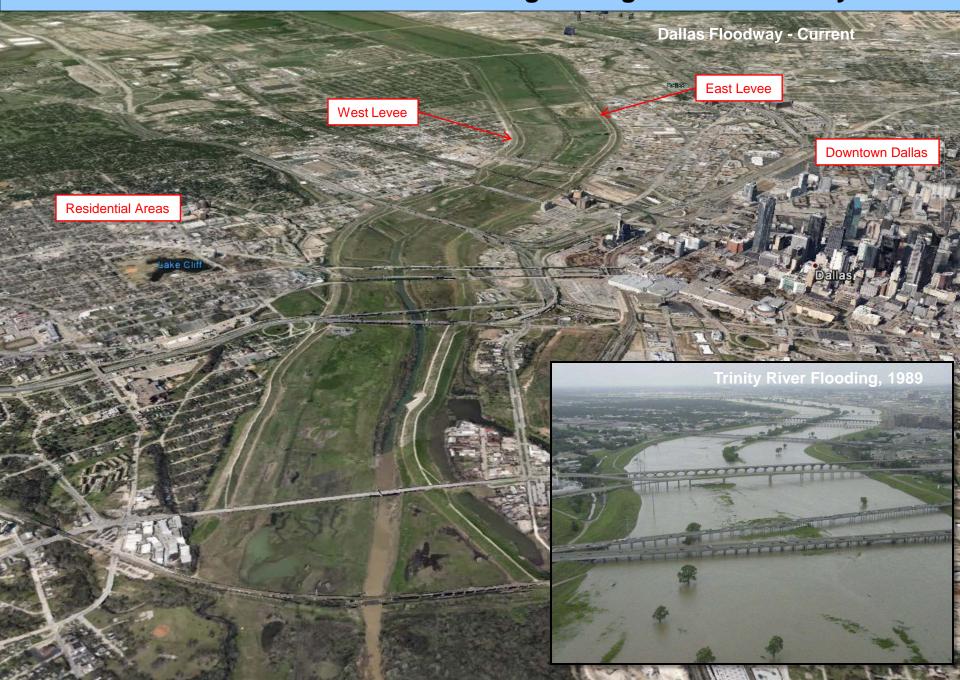




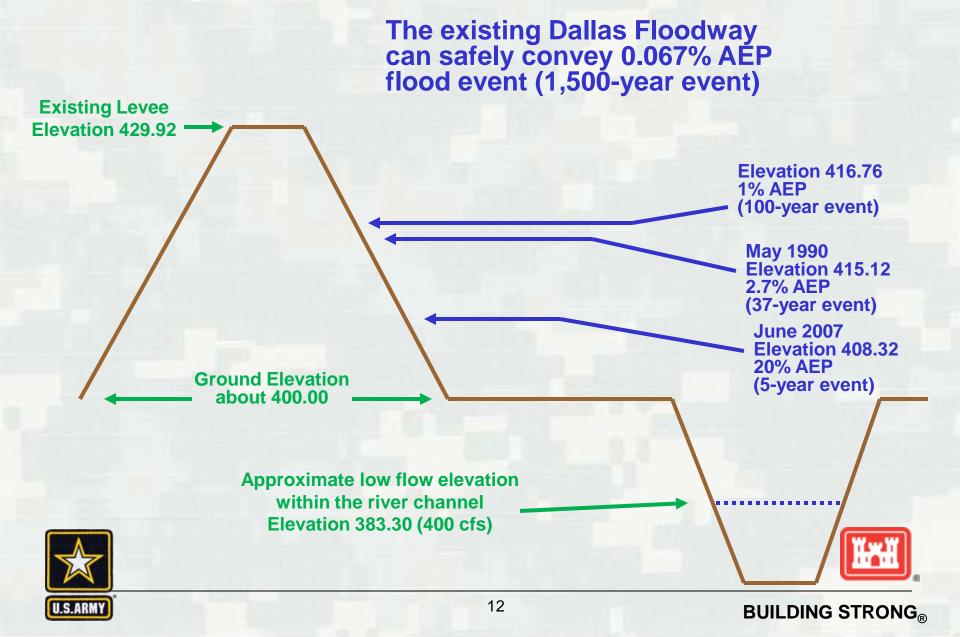
Historic Context: Original Construction



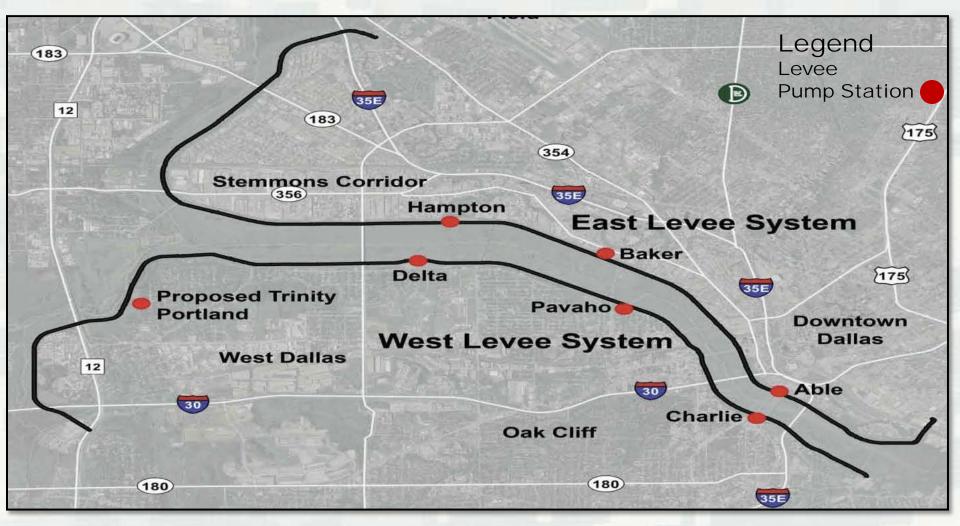
Historic Context: USACE Strengthening in 1950s - Today



Trinity River Flooding History



Current Dallas Floodway Project

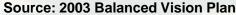






City of Dallas - Balanced Vision Plan





The future of the Trinity River Corridor will be a





Dallas Floodway Project

What did the Corps of Engineers do?

- Performed extensive study of existing levee system and natural environment.
- Examined the impact of all projects anticipated between the levees in Dallas – including those not part of the Modified Dallas Floodway Project.
- Developed solutions that reduce flooding risks and improve the quality of aquatic habitat





Modified Dallas Floodway Project

Flood Risk and Ecosystem Restoration Problems







FRM

- ▶ 200,000 people at Risk, residential areas on the West side, commercial areas on the East
- **M** ▶ \$13.7 Billion investment behind the levees

ER

 River habitats been degraded over time due to relocation of the river channel within the Dallas Floodway





Modified Dallas Floodway Project

Flood Risk and Ecosystem Restoration Project Objectives



FRM

- Ensure future reliability and integrity of the floodway system reduce residual flood risk;
- Review of the City of Dallas' Interior Drainage Plan

ER

► Restore to the extent possible the aquatic and riparian ecosystem of the Trinity River within the boundaries of the Dallas Floodway Project.





Modified Dallas Floodway Project Flood Risk and Ecosystem Restoration Project Criteria



Formulate levee improvements to have the maximum net economic benefits;

FRM

- Reduction of overall life safety risk;
- ► Reduction of damage structures within 100-year floodplain;
- Inclusion of select IDP features not already built;

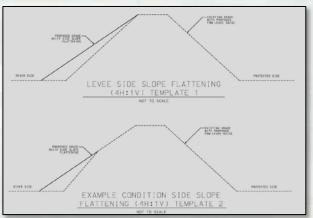
ER

Provide uplift of habitat function following project completion.





Modified Dallas Floodway Project Approved Plan







Flood Risk Management

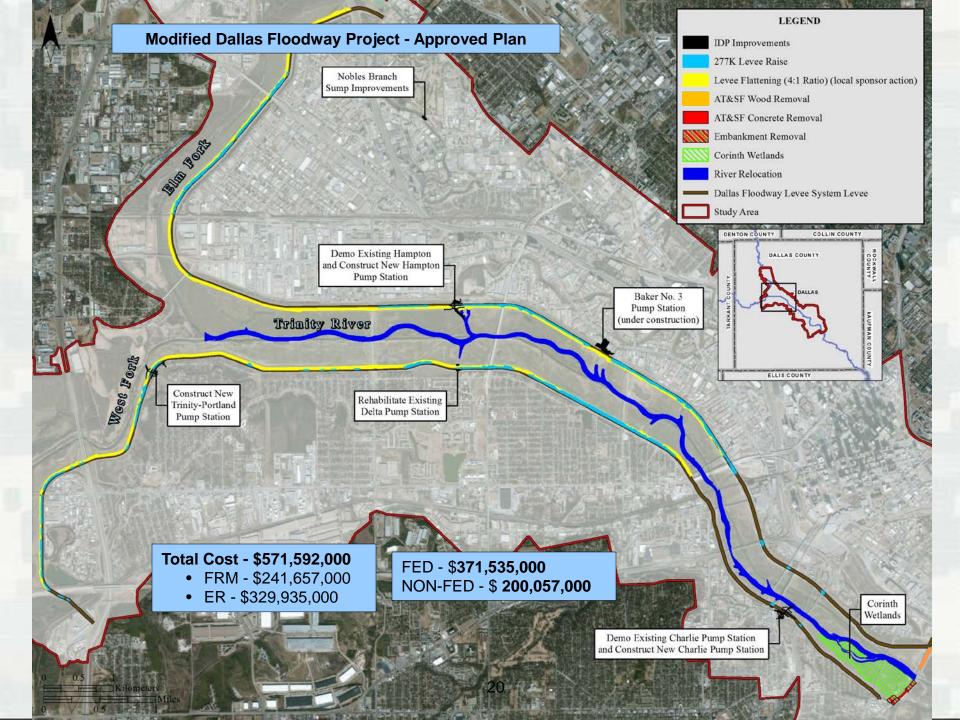
- 277,000 cfs levee raise with AT&SF Bridge Modifications
- Emergency Action Plan improvements
- Levee side slope flattening to 4H:1V (Betterment @ 100% local cost)
- Interior Drainage Plan
 Phase I features (Baker and Hampton Pump Stations)
- Interior Drainage Plan Phase II features (Charlie, Delta, New Trinity Portland)

Ecosystem Restoration

- River Relocation (add meanders to 8-miles of the Trinity River in the Floodway)
- Approx. 80-acre wetland in Floodway







Benefits of the Modified Dallas Floodway Project

- ► Reduces the risk of river flooding.
- ► Reduces flooding risks related to interior drainage
- ► Improves environmental sustainability
- ► Functions as a comprehensive system













Next Steps

Corps seeks federal funding -

Congressional appropriation for first phase: levee raises, bridge modification.

Permits -

Major construction projects by others require Corps-issued Section 408 (Rivers and Harbors Act) and Section 404 (Clean Water Act) permits.

Construction-level design review -

The Corps has ongoing oversight responsibility for all projects in the floodway including review of design documents and monitoring construction.

Trinity Lakes -

The city has told the Corps this is a top priority.





Q&A



"The Trinity is the future of Dallas, and we need to build irreversible momentum, to see this project through." - Major General Merdith W.B. (Bo) Temple, U. S. Army Corps of Engineers, May 4, 2009









