# **Trinity River Corridor Project Update**

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Dallas City Council briefing Aug. 21, 2013



US Army Corps of Engineers BUILDING STRONG\_{\tiny (R)}



THE TRINITY DALLAS



#### Purpose

- To provide an overview of the Trinity River Corridor Project
- To introduce the US Army Corps of Engineers (Corps)
- To outline next steps

# Trinity River Corridor Project Partners Federal, State and Local Partners

- US Army Corps of Engineers (Corps)
- City of Dallas
- Dallas County
- North Texas Tollway Authority (NTTA)
- Texas Dept. of Transportation (TxDOT)
- Fed. Highway Administration (FHWA)
- Texas Commission on Environmental Quality (TCEQ)
- Environmental Protection Agency (EPA)
- Federal Emergency Management Agency (FEMA)
- North Central Texas Council of Governments (COG)



## Trinity River Corridor Project Non- Profit Partners

- Trinity Trust Foundation
- Trinity Commons Foundation
- Audubon Society
- Circle Ten Boy Scouts
- Dallas Camera Club
- Dallas Running Club
- Downtown Dallas
- EQUEST
- Groundwork Dallas
- Girl Scouts of Northeast Texas
- River Ranch Education Charities
- Ocean Conservancy
- Scottish Rite Hospital
- Student Conservation Association
- Texas Horse Park Foundation
- Trinity Bird Count
- Trinity Strand Trail
- The Mission Continues



#### Trinity River Corridor Project Private Sector Partners

- AT&T
- CVS Caremark
- Dallas Morning News
- Dr. Pepper/Snapple
- National Fish & Wildlife/FedEx
- Hilton Anatole
- Kroger
- Luke's Locker
- Matthews Southwest
- Methodist Hospital Dallas
- Nestle Waters
- NorthPark Center
- Oncor
- Reliant Energy
- Sprint
- Southwest Airlines
- Xerox
- Wells Fargo





#### Fort Worth District US Army Corps of Engineers

#### Who we are:

- Created 1950 after 1949 Fort Worth flood
- 1,200 civilian and military employees half in Fort Worth

#### What we do:

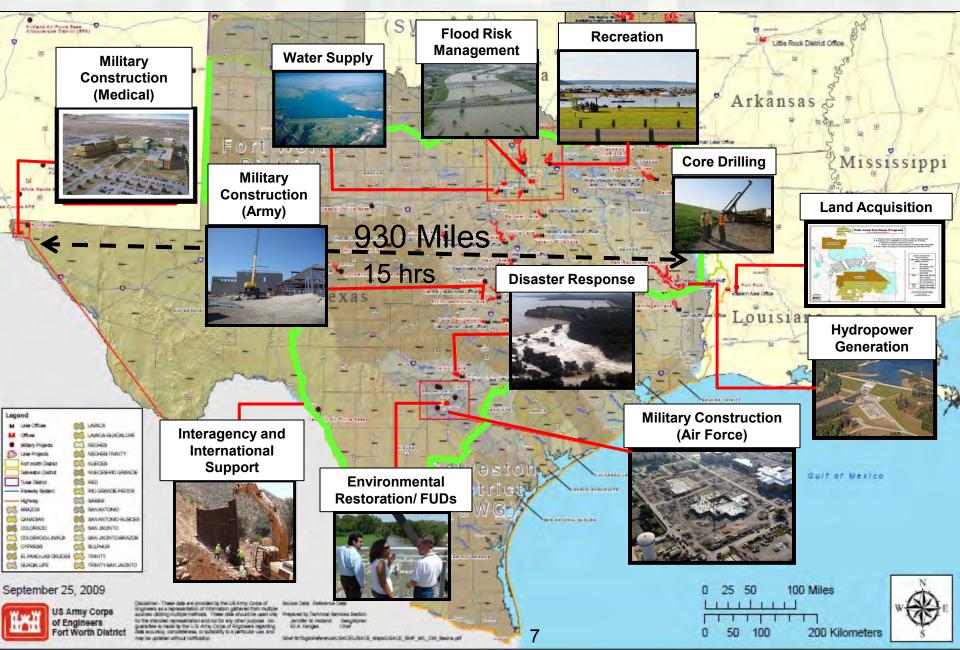
Military Works: Support the needs of 11 Army and 5 Air Force installations across Texas, New Mexico and Louisiana

Civil Works: Ten river basins covering 53% of the state

- Levee systems in 16 Texas counties
- 25 lakes containing 314 parks
- Corps lakes provide 30% of Texas water supply
- 35 current ecosystem restoration projects
   Overseas contingency response: 27 employees deployed to Afghanistan in May
   Emergency response: District employees deploy nationwide for disaster relief



#### **Fort Worth District Mission Areas**



#### **Overview**

The Trinity River corridor projects address regional concerns but **flood risk reduction** is the cornerstone.

4 inter-related components of the projects are:

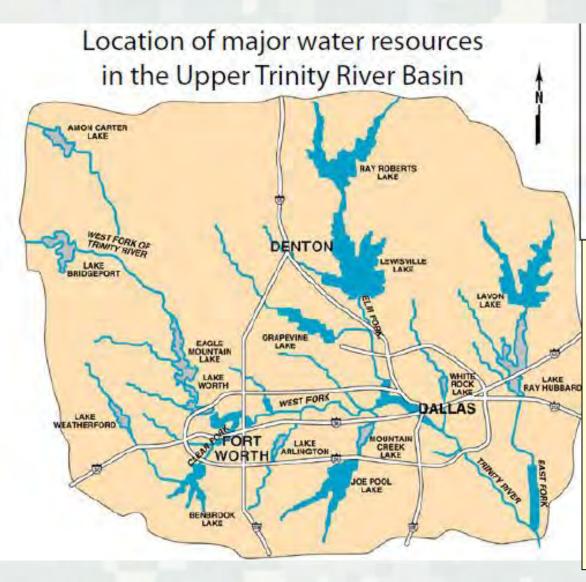
I. Flood Risk Reduction
II. Ecosystem Restoration
III. Transportation
IV. Recreation

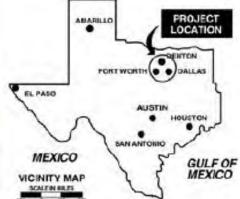
## I. Flood Risk Reduction

- 200,000 people work or live behind the levees
- \$12.2 billion in floodplain investment



## **Flood Risk Reduction**

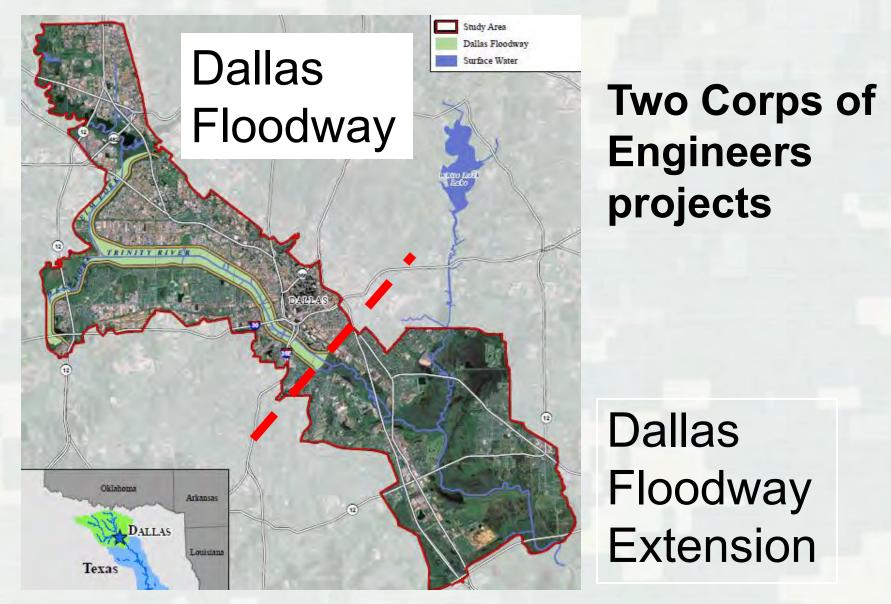




Corps Lakes provide flood control, water supply and recreation

- Benbrook
- Grapevine
- Lavon
- Lewisville
- Joe Pool
- Ray Roberts

#### **Flood Risk Reduction**



# **Flood Risk Reduction History**

- 1908 Dallas flood kills 5, leaves 4,000 homeless, city without power for days, massive property damage
- 1928 First levee system built in Dallas



Montgomery Ward building, 1949 Fort Worth flood

- 1949 Fort Worth flood kills 11, flood control reservoir construction advances (Lewisville, Grapevine, Benbrook)
- 1958 Corps completes major Dallas Floodway upgrade
- 1989-1991 Worst floods since 1908.
- 1998 Dallas voters authorize record bond package \$246 million – for Trinity flood control, transportation and recreation.

#### Flood Risk Reduction Dallas Floodway Project

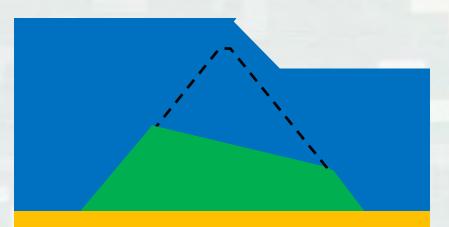
- 2007 Water Resources Development Act (WRDA) Section 5141 was authorized to raise the levees up to 2 feet, provide recreation (Balanced Vision Plan) and improve pump stations
- 2009 Corps tells City it has rated Dallas Floodway "unacceptable"; FEMA withdraws accreditation of levees; city begins maintenance and construction work to re-certify levees
- **2010** Feasibility Study and Environmental Impact Statement process launched to explore what actions are needed to restore capacity of Dallas Floodway to meet a major storm event.
- **2011** Corps introduces Risk Assessment process, a cost-effective method for assessing aging dams, to the Dallas Floodway Project.
  - First of this type of study for levees in the Country
  - Determines Dallas Floodway Project Levees are more resilient and provide around 1,500-year protection

#### Flood Risk Reduction The Risk Assessment Process

- Method for quantifying the risk (likelihood) of various ways a levee can fail, and the consequences of each failure type
- Identifies most cost-effective ways to reduce risk

#### Successful result:

- Determined levees more resilient than previously thought
- Narrowed the list of 13 potential failure modes to two:
  - Overtopping with breach of East or West Levee
  - Overtopping of the East Levee floodwall



**Overtopping with breach** 

#### Flood Risk Reduction Recommended Flood Risk Management Plan

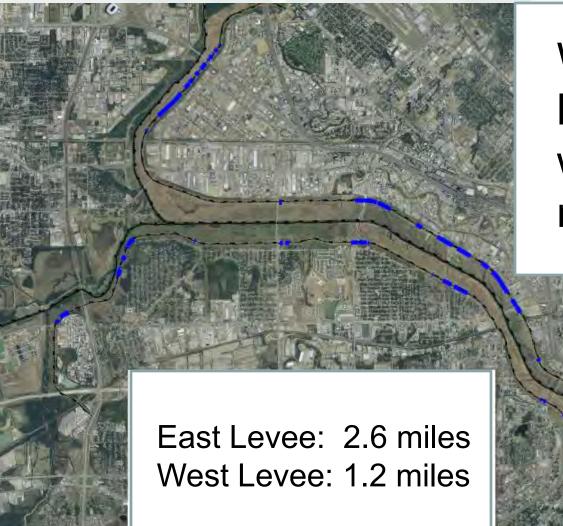


Old abandoned AT&SF Trestles Proposed for Removal

 The Trestles are on 14-foot-centers and collect debris during flooding and stack up floodwaters into the floodway. The embankment acts as a weir and impedes flow down the floodway system

- Raise low spots in the levees up to 3 feet to increase flood conveyance to 277,000 cubic feet per second. This is enough to convey floodwaters of a major storm that has a 1/2,500 chance of happening any given year
- Cost of these two changes: \$6.2 million

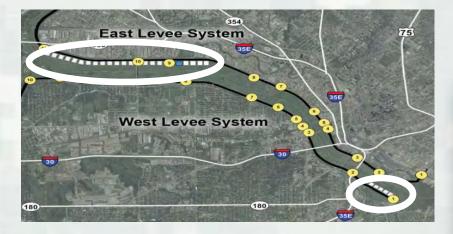
#### **Flood Risk Reduction**



Where levee low spots would be raised



## **Flood Risk Reduction**



3.5 miles of new anti-seepage walls built to meet FEMA's National Flood Insurance Program at the 100-year flood protection level requirements

#### Milestones Construction complete

**2013 –** City begins gathering certification documentation to be sent to FEMA seeking reaccreditation or levees

#### City to certify levees



#### Flood Risk Reduction Interior Drainage Plan

Expanding pump stations, such as Pavaho (completed last year), reduces neighborhood flooding. This West Dallas neighborhood regularly flooded before upgrade.



2006 Flooding near Old Pavaho Pump Station



2012 New Pavaho Pump Station

#### **Flood Risk Reduction Interior Drainage Plan**

More pump stations under way

 Baker Pump Station (2255 Irving) Blvd. near Design District); construction now 28 percent complete



 Able Pump Station (600 S. Riverfront near Fuel City) – Under design. Construction to begin within a year.





#### Flood Risk Reduction Dallas Floodway Extension Project

- Project initiated in 2001 to construct flood control wetlands and levees
- Constructed Lower Chain of Wetlands
- Lamar Levee
   geotechnical borings
   completed
- Lamar Levee 35 percent designed



Wetland cells at Loop 12 beside Trinity River

#### Flood Risk Reduction Fiscal Year 2014

- Brief the Transportation and Trinity River Project Council Committee on the Dallas Floodway Project Environmental Impact Statement and the upcoming 2014 Public Meeting
- Award the Upper Chain of Wetlands and Able Pump Station
- Open Baker Pump Station

# **II. Ecosystem Restoration**

Lower Chain of Wetlands have dual role: New wildlife habitat in the heart of the city that also reduces flood risk in the Dallas Floodway

Fed by treated wastewater, the Lower Chain of Wetlands thrive through drought and further clean water before it flows back into Trinity River

I. Flood Risk Reduction
 II. Ecosystem Restoration
 III. Transportation

**IV. Recreation** 

#### **Ecosystem Restoration**





#### **Lower Chain of Wetlands highlights**

- Native plants selected to maximize food supplies for birds
- Water levels adjusted to attract seasonal waterfowl
- •125 bird species have been recorded in the Lower Chain of Wetlands





## Ecosystem Restoration Path Forward: More wetlands

Upper Chain of Wetlands (Martin Luther King Jr. Bridge at 11th Street), Phase 1 construction complete



Pavaho Storm Water Polishing Wetlands – anticipated construction start this year

## Tire Removal, Planting and Clean Up Activities

- Staff, contracts and volunteer programs such as Groundwork Dallas and Southwest Airlines Trinity Conservation Corps aim to remove tires and trash in and along the Trinity
- Staff, contracts and volunteer programs plant native species vegetation



#### **Ecosystem Restoration** Fiscal Year 2014 Next Steps

- Brief the Transportation and Trinity River Project Council Committee on the operations and maintenance for the Lower Chain of Wetlands
- Award the construction of the Upper Chain of Wetlands
- Award a contract to remove tires in and along the Trinity River
- Continue planting and clean up activities at various locations along the Trinity River and wetlands areas

## **III. Transportation**



Concept for Sylvan Bridge now under construction

I. Flood Risk Reduction
II. Ecosystem Restoration
III. Transportation
IV. Recreation

## **Transportation** Sylvan Avenue Bridge – Under Construction



- Construction start: March 2012
- Re-open to traffic: Early 2014
- Completion: June 2014
- 6 Lanes (3 in each direction),
   6 foot-wide sidewalk, bike
   lanes, ramp to park area
- TxDOT cost: Approximately \$42 million



#### Transportation Horseshoe Project: I-30 (McDermott Bridge) and I-35E Bridges

- TxDOT awarded design-build contract November 2012
- Construction soil tests begun
- Construction complete 2017
- Cost: \$798 million (private, local, state & federal)

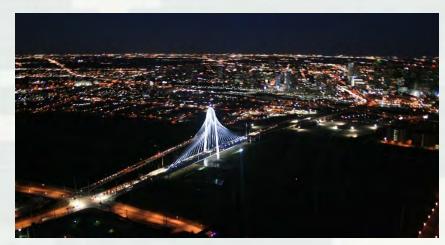


Planned Margaret McDermott Bridge (I-30)

## Transportation Margaret Hunt Hill Bridge



- Opened March 2012
- First Santiago Calatrava vehicular bridge built in the U.S.
- Connects downtown Dallas to West Dallas over the Trinity River (Woodall Rodgers Freeway to Singleton Boulevard)



## Transportation Riverfront Boulevard – Under Design



- Phase 1 construction late this year (lasting 19 months)
- Phase 2 construction to begin Spring 2014 (lasting 24 months)
- 6 traffic lanes, cycle track, bioswales, landscaping
- Cost: \$42.5 million City, County, COG





#### Transportation Cadiz Street

(From Riverfront To Lamar)

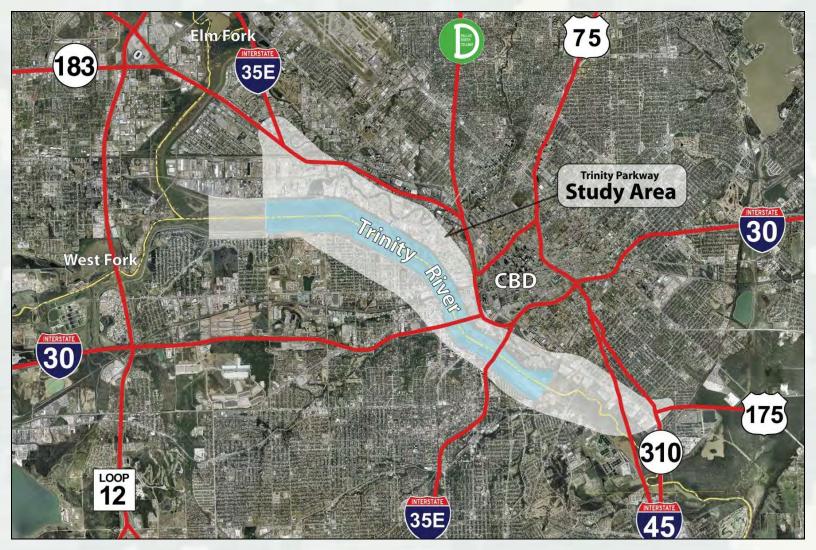
Est. Total Cost \$4.8 M (funded) Design completed in November 2012 Begin roadway const. by February 2014 Complete roadway const. in August 2015 Begin Sump A bridge const. late 2015 <sup>32</sup> Complete Sump A bridge const. late 2016

#### Transportation Beckley/Commerce Intersection Improvements



- Design completed in July 2013
- Estimated total cost \$3.6M
- Construction scheduled to begin in December 2013 (15-18 month duration)

#### **Transportation** Trinity Parkway – Under design

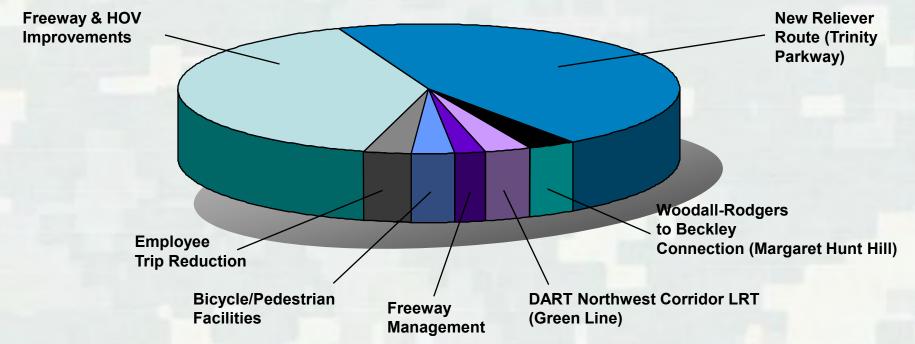


#### Transportation Trinity Parkway – Need and Purpose

- 1994-1996 Trinity River Corridor Citizen's Committee recommends a levee couplet parkway
- TxDOT conducted the Major Transportation Investment Study from 1996-1998:
  - Looked at over 35 different scenarios for traffic relief in this corridor
  - Looked at vehicular, mass transit, bicycle and pedestrian options
  - Recommended a variety of solutions including the Trinity Parkway

#### Transportation Trinity Parkway - Need and Purpose

- Goal was to add 250,000 person-trips of added capacity to the corridor to handle future demand
- Conclusion was a \$1 billion (in 1998 dollars) multimodal set of transportation improvements



#### Transportation Trinity Parkway Design Assumptions

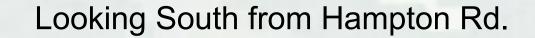
- Nine mile tolled bypass around downtown Dallas to provide traffic relief for I-30 and I-35E corridors - four to six lanes (originally eight to six lanes)
- Improve mobility, manage congestion, increase safety
- Goal: add 132,000 vehicles per day to handle future demand
- Minimize the physical, biological, and socio-economic effects on the human environment
- Provide compatibility with local development plans
- Act on voter approval for the Trinity Parkway project
- Freeway-to-tollway interchanges planned for I-35E, SH 183/I-35E, U.S. 175/SH 310, Woodall Rodgers Freeway and I-45

#### Transportation Trinity Parkway Toll Road



 Environmental Impact Statement underway by NTTA, To be completed in 2014

#### Transportation Trinity Parkway Toll Road

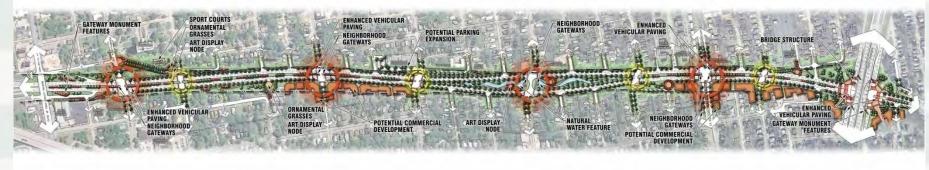


#### Transportation Trinity Parkway – Design Status

- December 2008: TxDOT and NTTA execute \$30 million advance funding agreement (AFA) for design and traffic and revenue studies
- December 2008: NTTA approved and entered into contract with firms for professional engineering services for design of Alternative 3C
- May 2009: preliminary plans and initial Section 408 review package submitted to Corps
- Trinity Parkway Phase I (S.M. Wright) nearing 100% design
- Complete remaining phases of design following record of decision by FHWA in 2014

#### **Transportation** S.M. Wright Parkway – Under Design

- Trinity Parkway connection to I-45 eliminates need for "Dead Man's Curve" at U.S. 175 and S.M. Wright (S.M. Wright Phase I)
- Provides opportunity to make S.M. Wright a lower-speed, thoroughfare after the improvement to I-45/U.S. 175 (S.M. Wright Phase II)
- Pedestrian crossings, sidewalks, landscaping
- Construction estimated to begin in 2014 and end in 2019



S.M. WRIGHT FREEWAY- MEANDERING ROADWAY ALIGNMENT MASTERPLAN

#### Transportation Fiscal Year 2014 Next Steps

- Brief the Transportation and Trinity River Project Council Committee on the Trinity Parkway Environmental Impact Statement and the upcoming 2014 Public Hearing
- TxDOT awards design of SM Wright Phase II
- Award construction of Riverfront Blvd, Cadiz Street
   Improvements and
- TxDOT awards Trinity Parkway Phase I (SM Wright Phase I)
- Open Sylvan Avenue Bridge

# **IV. Recreation**

INTERNET

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Santa Fe Trestle Trail

I. Flood Risk Reduction
II. Ecosystem Restoration
III. Transportation
IV.Recreation

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ADDRESS OF THE OWNER

#### **Recreation** Balanced Vision Plan

In 2003 City of Dallas writes long-range Balanced Vision Plan to reclaim Trinity River as a great natural resource and unique public domain and a model of environmental stewardship that embodies the spirit of the Kessler Plan idea of nearly a century before.

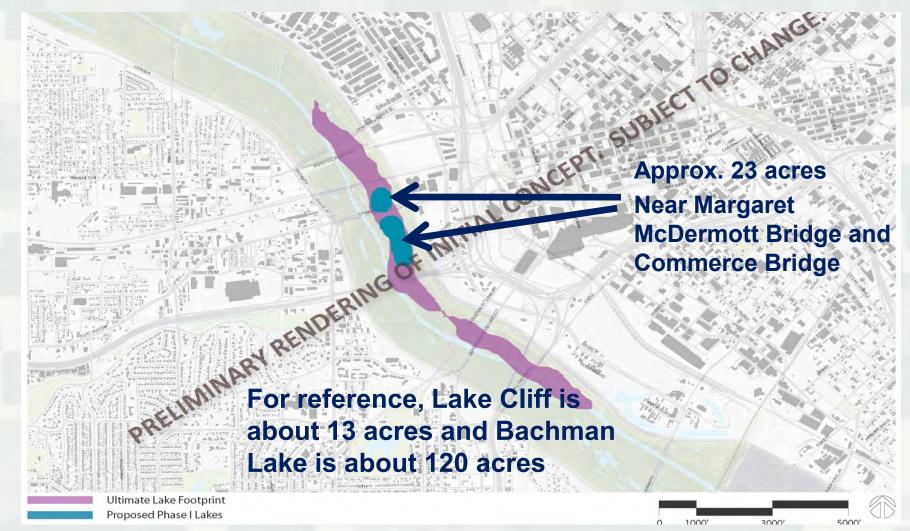


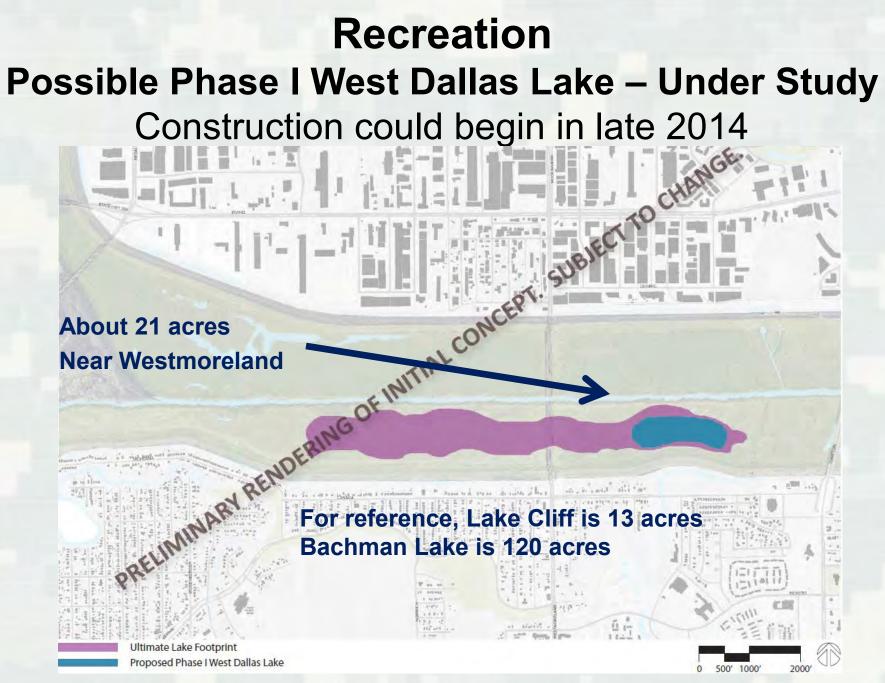
#### Recreation Balanced Vision Plan



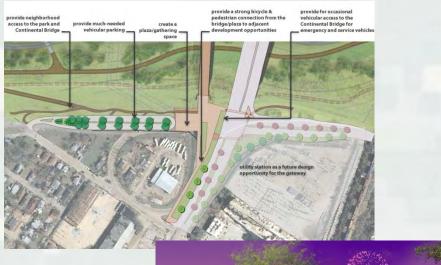
- Lakes
- River meanders
- Playing fields
- Multipurpose trails
- Canoe/kayak loop
- Amphitheater
- Restore/expand riparian corridor
- Improve aquatic habitat
- Riffle pool complexes
- Wetlands
- Pedestrian bridges
- Promenade
- Concession pads
- Boat/canoe access
- Picnic areas

#### Recreation Possible Phase I Urban Lake – Under Study Construction could begin in late 2014





### Recreation Continental Avenue Bridge and West Dallas Gateway





- Construction began June 2013
- Completion estimated in May 2014
- Amenities include parking, landscaping, bocce, chess, kid's play area and meditation zones
- \$10.6M (\$8M donation and \$2.6M from 2006 bond funds)



#### Recreation Elm Fork Athletic Complex





ELM FORK

 Construction completion estimated in mid- to late 2013

 Estimated open for management by FC Dallas and open for play April 1

- Amenities include 10 international soccer fields (lighted), 4 international soccer fields (unlighted), 5 youth soccer fields, 2 pavilions with open play space and potential concession areas
- Construction cost about \$18 million from various bond and grant funds

-O'Brien Construction

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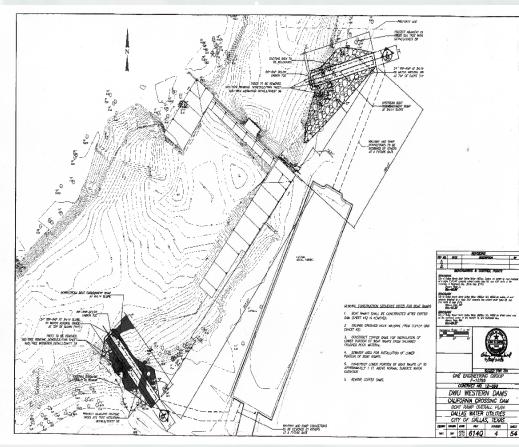
#### **Recreation** Dallas Wave – Under Construction



- Located off 8<sup>th</sup> Street & Corinth, under the Santa Fe Trestle Trail crossing of the Trinity River
- Construction of Wave Complete
- Construction of bypass channel pending additional work
- 100s of kayakers currently use this feature
- Amenities include parking lot, main wave and bypass channel



#### **Recreation** California Crossing Canoe Launches – Under Construction



- Construction award September 2012
- Located at 1825 California Crossing Rd.
- Provides portage locations above and below the low water dam
- Construction is estimated to be complete in October 2013 (weather permitting)

# Recreation

#### Dallas Maritime Museum– 1501 S. Riverfront Blvd.



- Planned dry land berth for USS Dallas, a 362-foot nuclear attack submarine being decommissioned in 2014
- 3.5-acre site near Trinity River
- 30,000-square-foot building planned
- Fundraisers estimate \$80 million cost



#### Recreation Moore Park Expansion – Completed in June



(Adjacent to Santa Fe Trestle Trail and Corinth DART rail station)

Pavilion, amphitheater, pedestrian bridge over Cedar Creek and parking

# Recreation MLK Jr./Cedar Crest Bridge

- Construction estimated to begin in September 2013
- Amenities include street beautification, overlook, pedestrian amenities and parking lot access to future trail connections to Moore Park
- \$5 million construction budget from 1998 bond funds



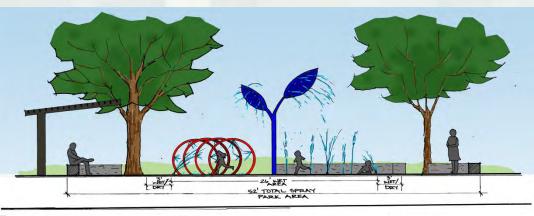
# Recreation South Central (Joppa) Gateway

Construction could begin in fall 2013 (pending land acquisition) at South Central Park on Fellows Lane

Amenities could include:

- Expansion of existing park to connect to the Trinity River Lower Chain of Wetlands to the neighborhood
- Mini spray area
- Upgrades to the existing basketball court
- Two open play areas
- Additional walkway
- Off-street parking area

\$800,000 to \$900,000 construction budget from 2006 Bond Funds

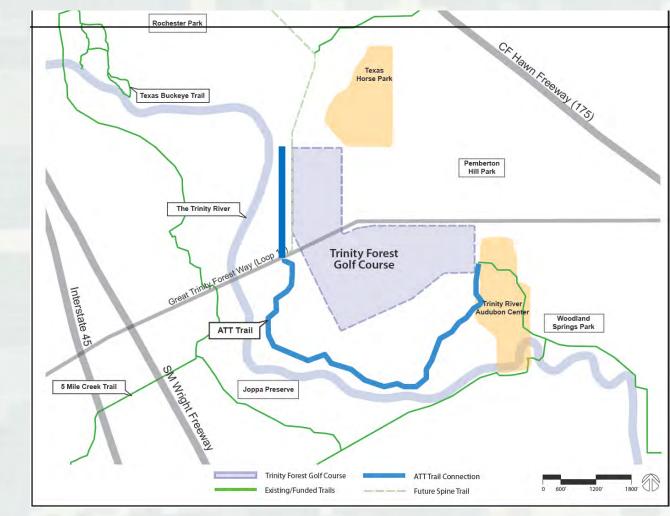




### Recreation Trinity Forest Golf Course

Anticipated construction start: 2013; opening 2016 PGA tour site for the Byron Nelson by 2019

- 400-acre former landfill
- PGA quality 18hole course
- 9-hole short course, practice facility
- Partnership of AT&T, SMU, city, SMU Golf Team, First Tee of Greater Dallas youth group and others



#### Recreation Texas Horse Park

- Located at 811 Pemberton
- Construction started Summer 2013
- Estimated finish: Summer 2014
- Non-profit phase includes a therapeutic center, arenas, a camp house and trail ride opportunities
- \$12 million cost from 1998 & 2006 bond funds and Hillcrest Foundation grants
- Partners include:
  - Equest Therapeutic Horsemanship
  - River Ranch Educational Charities
  - Texas Horse Park Foundation





## Recreation

#### **Great Trinity Forest Gateway and Horse Trails**

- Location: I-20 at Dowdy Ferry Road
- Opened in June
- Pavilion, fishing piers, bathrooms, hike/bike/equestrian trails
- \$1 million from 1998 bond funds

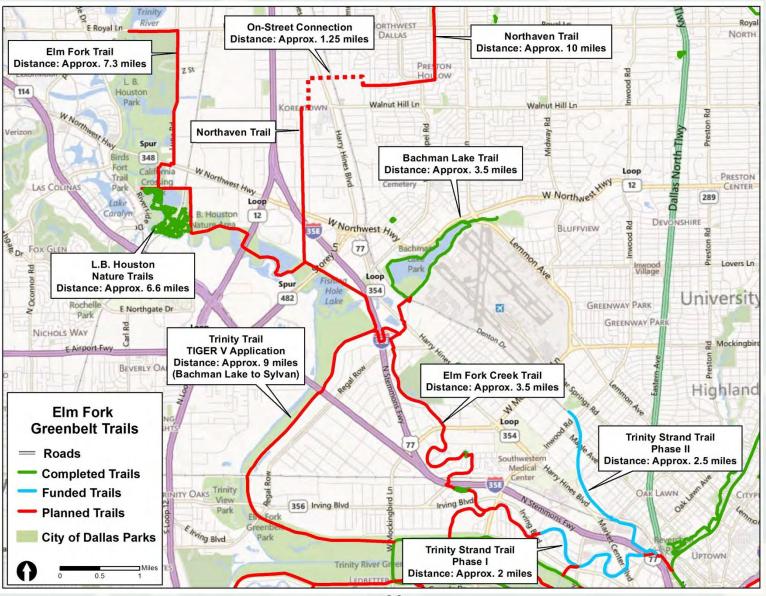




#### **Trinity Trails Network Background**

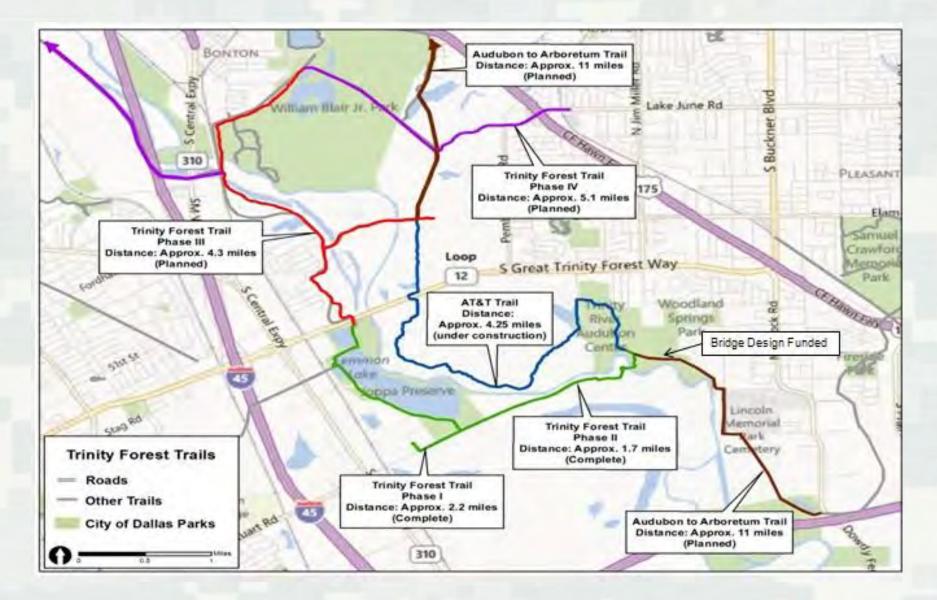
- Trinity Trails Network is a subset of the City's Trail Network System
- Extends from Royal Lane near Luna in the North to I20 & Dowdy Ferry in the South
- Hard surface trails 62.7 miles planned (8 miles in service)
- Soft surface trails 18.8 miles in service

# **Elm Fork Greenbelt Trails**



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#### **Trinity Forest Trails**



#### Santa Fe Trestle Trail



- Two trailheads: 2295 S. Riverfront Blvd, Dallas TX 75207 and 1837
   E. 8<sup>th</sup> Street, Dallas TX 75203 (DART overflow parking lot)
- Trail length .86 miles from west entrance at Moore Park (under construction as a separate project) to east parking lot inside floodway



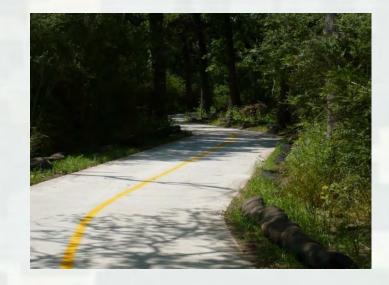


### **Trinity Forest Trails**



Phase 1 complete from Joppa Preserve to Eco Park





- Trailheads, 12' wide hard surface trail, parking and kiosks
- Phase 1 Trail length 2 miles
- Phase 2 Trail length 2 miles

Phase 2 complete linking Joppa Preserve to Trinity River Audubon Center

#### **Texas Buckeye Trail and Soft Surface Trails**



- Trailheads at 7000 Bexar Street and 3000 Municipal Street, Dallas, TX 75215
- Soft Surface Trail Approximately 8 miles (Blue Line)
- Trailhead and ADA trail (Green Line)
- Trailhead and Trail (Red Line)

#### William Blair Jr. Park Gateway Trailhead

#### 3000 Municipal Street, Dallas, TX 75215



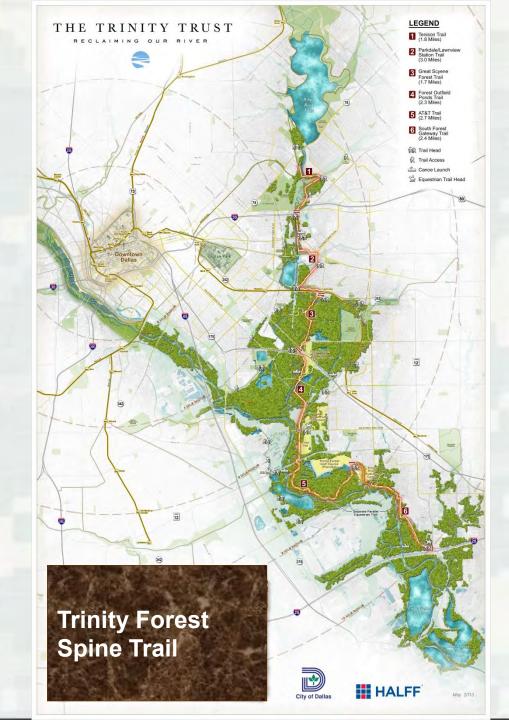
# AT&T Trails (Trinity Trails Phase IIIA) – Under Construction

- Starts at the Audubon and loops under Great Trinity Forest Way, ending at Elam Road
- Construction will begin in Summer 2013
- Could open in Winter 2014
- Construction cost approximately \$1.9M from AT&T Donation



# Trinity Forest Spine Trail

- Study funded through a grant from the Trinity Trust to be completed in 2014
- Connecting the southern most boundary of the Great Trinity Forest to the Dallas Arboretum
- Trailheads locations include the Great Trinity Forest Gateway & Horse Trails, Audubon Center, Bruton/Scyene DART Station, and Dallas Arboretum
- •Construction estimated to be approximately \$17M; Fundrasing campaign kick off by The Trinity Trust in May 2013



# **Trinity Strand Trail Phase I**

- Trinity Strand Trail Phase I from Oak Lawn to Medical District Drive, connecting at Sylvan Avenue
- Construction could be complete Spring 2014
- Amenities include plaza at Turtle Creek, 12' concrete trail
- Trinity Strand Trail Phase II from Oak Lawn to Inwood funded through 2012 Bond Program



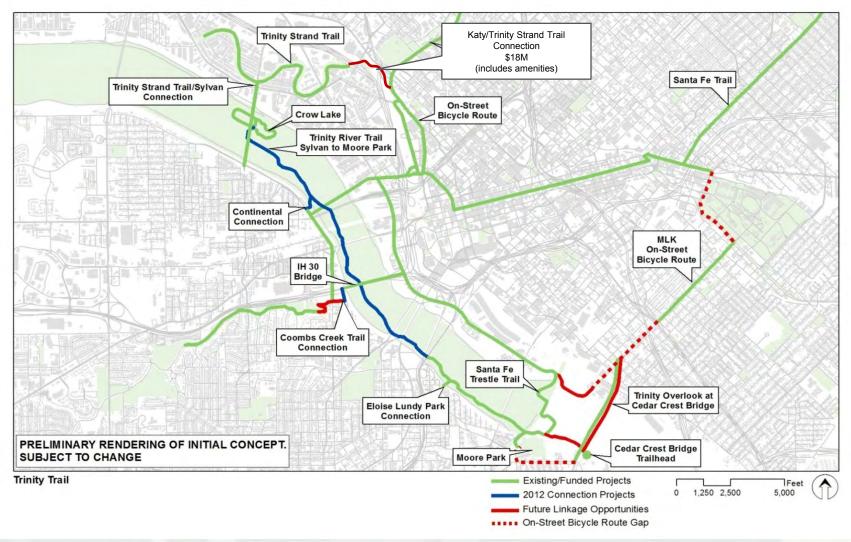
# **Trinity Strand Trail – Phase II**

- Trinity Strand Trail Phase I from Oak Lawn to Medical District Drive, connecting at Sylvan Avenue
   Design begins fall
- 2013
  Construction could be complete Spring 2014
- Amenities include plaza at Turtle Creek, 12' concrete trail
- Trinity Strand Trail Phase II from Oak Lawn to Inwood funded through 2012 Bond Program



# **Trinity Floodway Trails**

2012 Bond Program included \$6,418,400 for design & construction of Trinity Trails



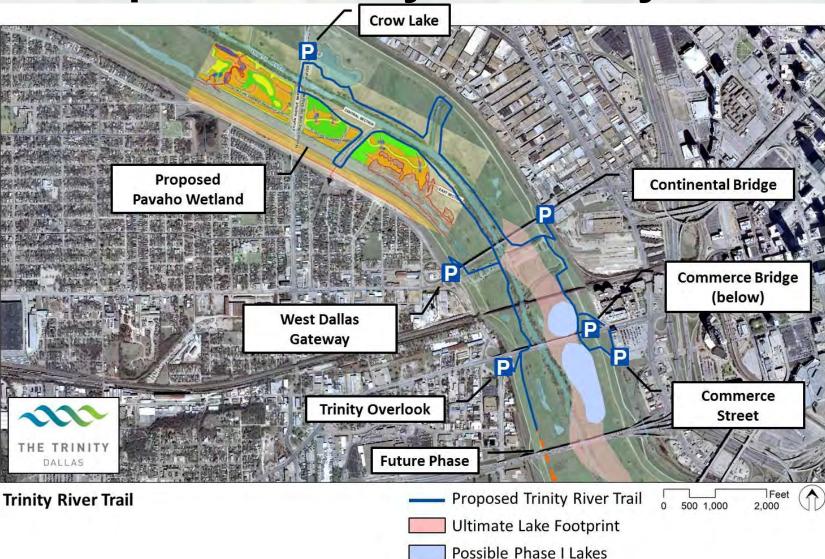
#### Proposed Alignment for All Weather Joint Use Maintenance Road / Trinity Floodway Trails

- To advance this trail ahead of the Corps' EIS, the 2012 Bond Program proposed alignment could be modified and constructed as an all weather joint use maintenance road for:
  - Maintenance trucks and other equipment
  - Pedestrians
  - Cyclists

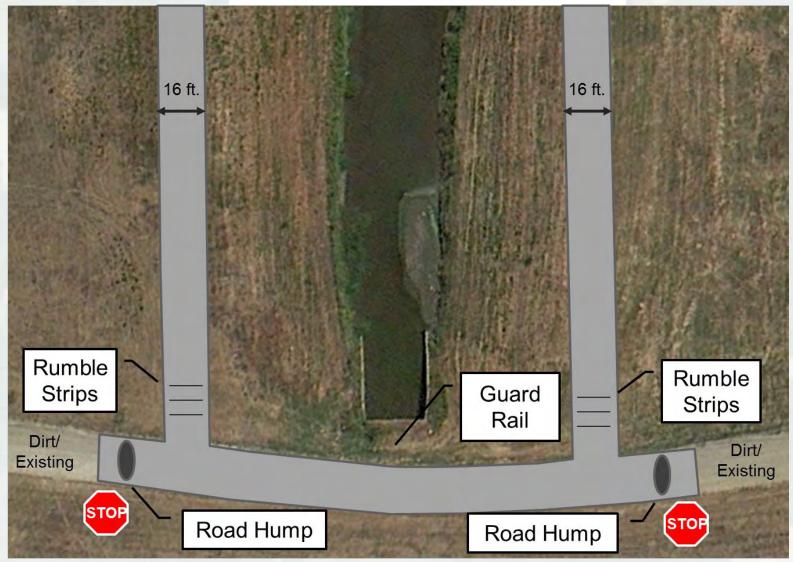
#### Proposed Alignment for All Weather Joint Use Maintenance Road / Trinity Floodway Trails

- In June 2013, the Trinity River Corridor Project Committee requested staff brief City Council in August:
  - Provide a refined, proposed alignment
  - Show safety recommendations
  - Request a recommendation to proceed with the construction of this alignment
- Safety measures will be in place to address pedestrian, bicycle and maintenance vehicle traffic

### **Proposed Trinity Floodway Trail**



#### Joint-Use All Weather Facility Alignment



### Proposed Alignment for All Weather Joint Use Maintenance Road / Trinity Floodway Trails

- Funds would be reserved to complete:
  - Connections crossing outfalls following the Dallas Floodway EIS (could begin in late 2014)
  - Connections to the Coombs Creek Trail at IH30 (as soon as IH30 is complete)
  - Connection between IH30 and IH35 following completion of Horseshoe Project (2017)

### **Recreation – Next Steps**

- City Council will be asked to approve the proposed alignment of the Trinity Floodway Trail
- In Fiscal Year 2014:
  - Transportation and Trinity Project Council Committee will be briefed on the Trinity Forest Spine Trail
  - Begin design of possible lakes
  - Open AT&T Trail
  - Open TX Horse Park

# **Trinity River Corridor Project Update**

# Questions?





US Army Corps of Engineers BUILDING STRONG<sub>®</sub>



THE TRINITY DALLAS

### Appendix A - History of Trinity River Corridor

#### History

- Since 1911, Dallas has been planning flood improvements, transportation and recreation within the Dallas Floodway. All of these planning efforts were undertaken independently
- 1926 Dallas Levee Improvement District formed; first levees completed in 1930
- 1945 Congress authorizes the Dallas Floodway Project (levees)
- 1953 1960 Corps constructs the current Dallas Floodway levees
- 1965 Congress authorizes the Dallas Floodway Extension (DFE) Project
- 1968 Dallas Levee Improvement District dissolved; City assumes responsibility for levee maintenance

#### History (continued)

- 1970's First proposal for a tollroad along the Dallas Floodway was made
- 1973 A variation of the current DFE Project was defeated in the City of Dallas Bond Program
- 1978 A variation of the lakes portion of our Dallas Floodway project and a variation of the current DFE Project were defeated in the City of Dallas Bond Program
- 1990 Largest flood event since the levees were built occurred
  - As a result, City asks Corps to reevaluate the DFE project

#### **History (continued)**

- 1990's City builds Rochester and Central Wastewater Treatment Plant levees
- 1990 1998
  - In preparation for the 1998 Bond Program, the City realized that we had lost Standard Project Flood Protection, that the levees occasionally experienced skin slides
  - No indication of other levees issues were identified at that time
- 1994 -1996 Trinity River Corridor Citizen's Committee formed by Mayor Steve Bartlett, to develop the Trinity River Corridor Project vision
  - Thousands of citizens participated in hundreds of meetings
- The City realized that we could not get consensus on any single item as a stand alone bond proposition

#### **History (continued)**

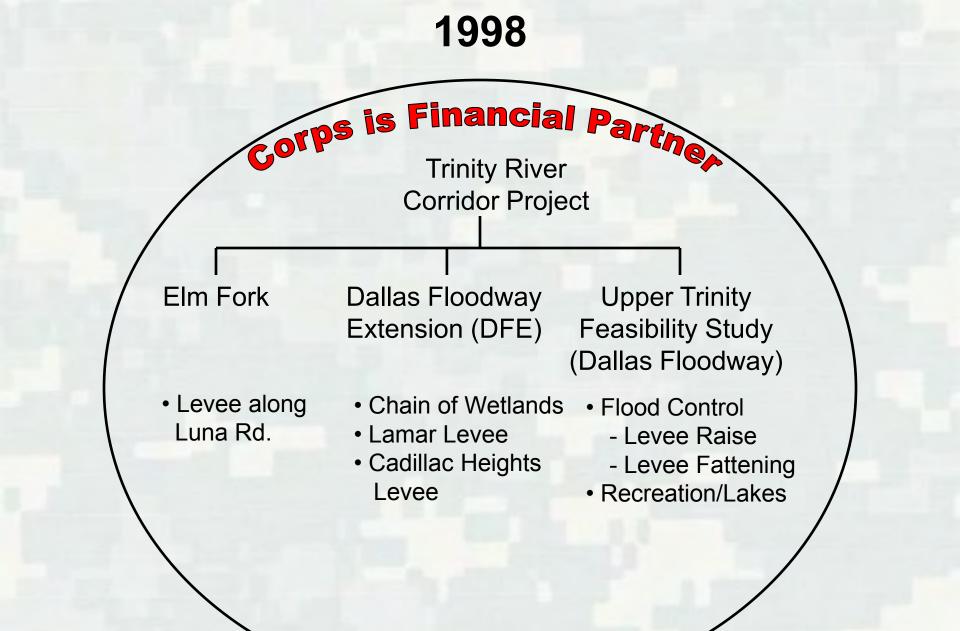
- **1998 City Bond Program includes Proposition 11 for the Trinity River** • Corridor Project for \$246M with multiple components
- First and foremost is Flood Protection: •

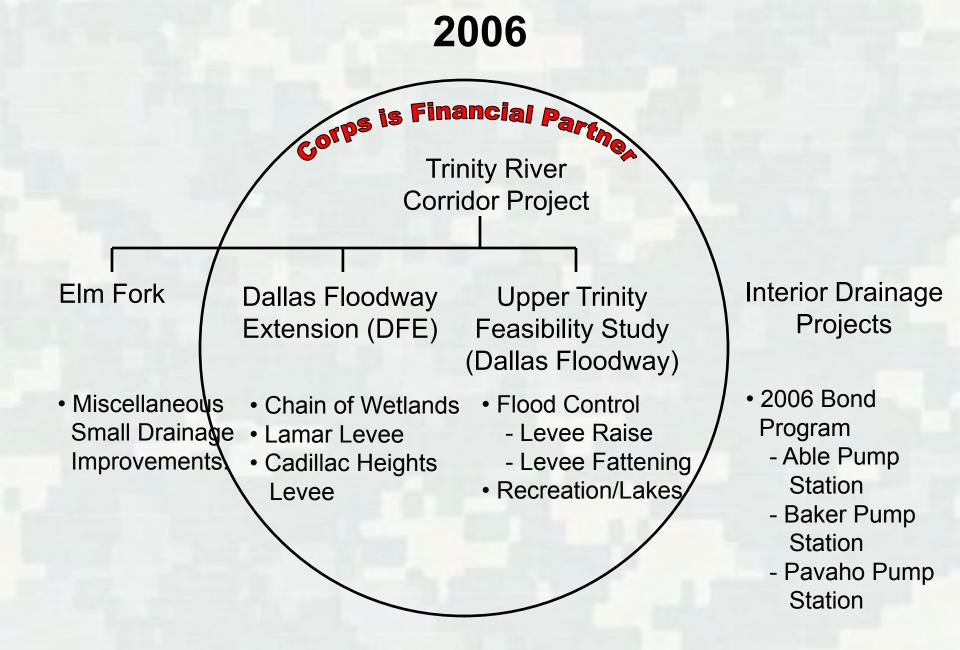
  - Dallas Floodway Extension Project (\$24.7M) Elm Fork Improvements, including Soccer Complex (\$30M)

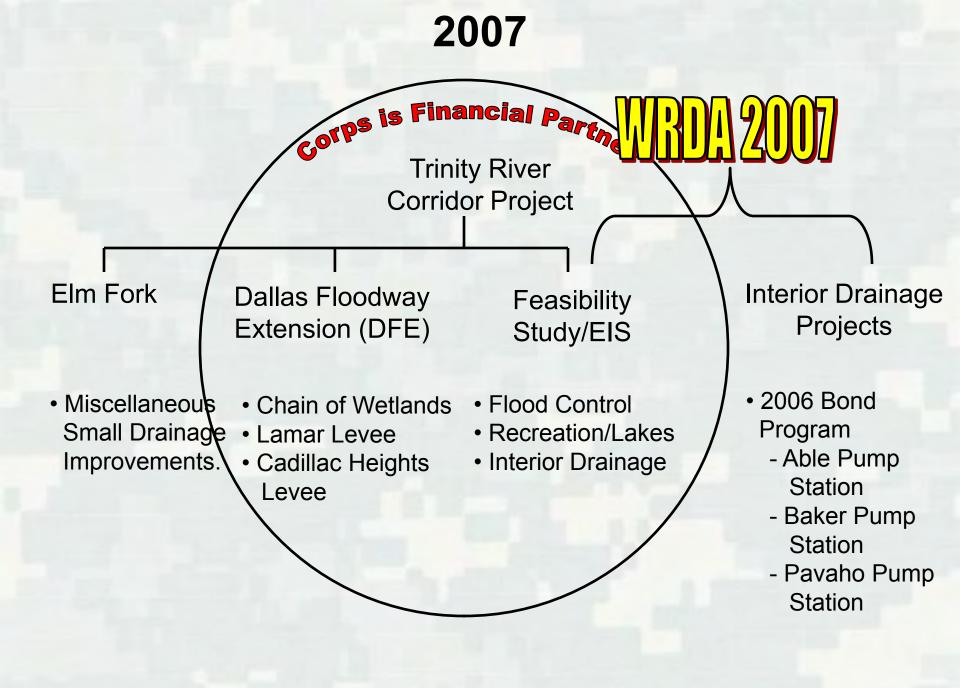
#### **Other Project Components:**

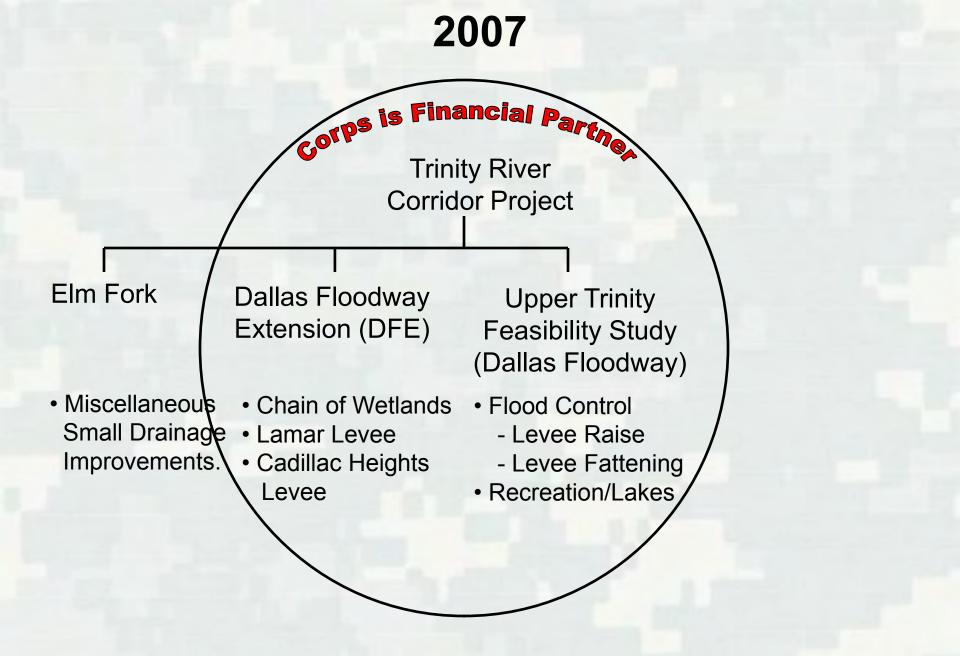
- Recreation
  - Chain of Lakes concept (\$31.5M)
  - Athletic fields, trails and Gateway Parks (\$41.5M)
- Transportation
  - Trinity Parkway (\$84M)
  - Woodall Rodgers Extension (Margaret Hunt Hill Bridge) (\$28M)
  - Beckley/Commerce Intersection Improvements (\$6M)
- **Environmental Restoration** 
  - Forest restoration and mitigation (part of DFE)
  - Wetlands (part of DFE)
  - Air Quality
- Sustainable development and reinvestment in the heart of Dallas •
- 2006 City Bond Program includes funding for flood control, ٠ transportation and recreation projects
- 2007 Voters reconfirm support for the Trinity Parkway inside the ٠ levees
- **2009 Corps' Periodic Inspection #9 occurs** ٠
- 2011 Corps' Risk Assessment determines levees are more resilient and actually provide 1500-year flood protection
- 2012 City Bond Program includes funding for flood control and ٠ trails

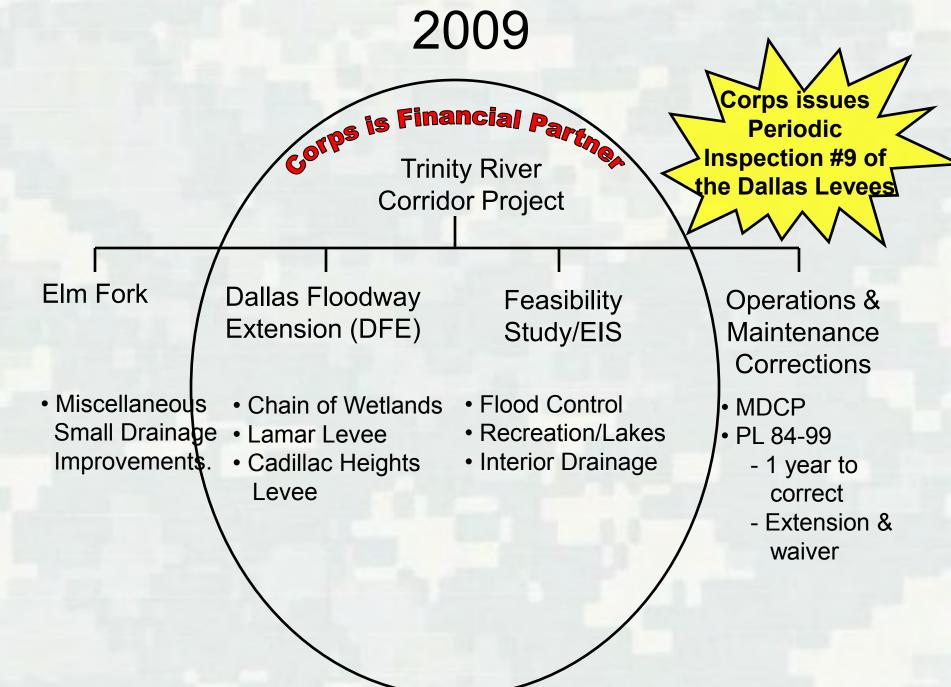
### Appendix B - Historical Funding Partnership City / Corps

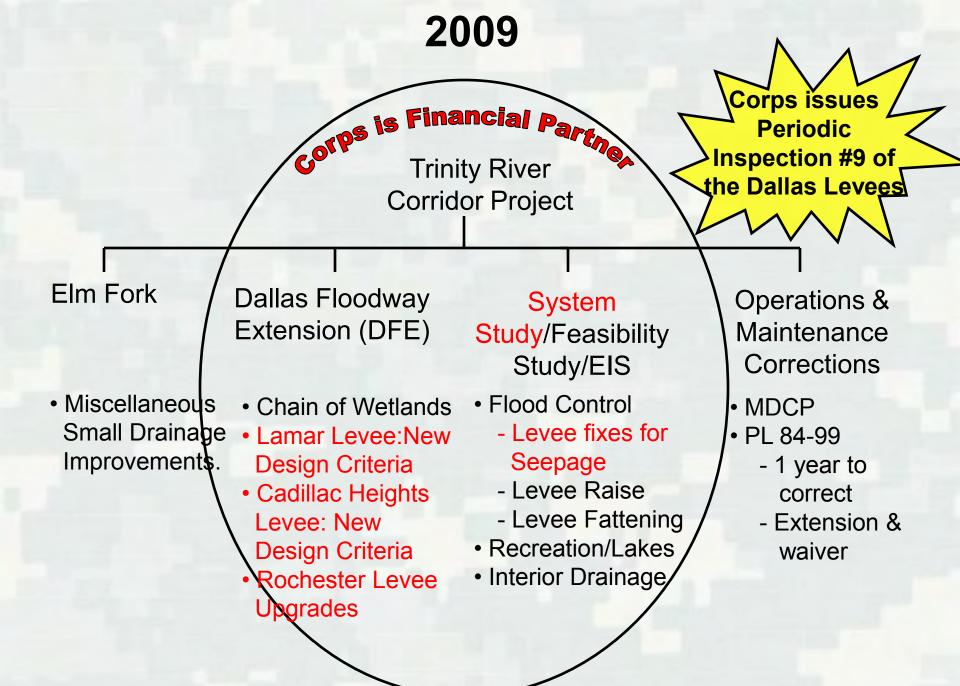












# **Appendix C - Funding Summary**

### **Funding Summary**

- Federal funds approximately \$225M
- Private donations approximately \$60M
- Public Bond Programs supporting flood protection, ecosystem restoration, transportation and recreation

# Funding Summary 1998 Bond Program

	Total	Expended/ Committed	Remaining
	(\$ M)	(\$ M)	(\$ M)
1998 Bond Program - Trinity Proposition			
Trinity Parkway	77.2	66.3	10.9
MHH Bridge	36.0	36.0	0.0
Lakes	31.3	19.6	11.8
Trinity Forest/Park	41.5	37.6	3.8
DFE	24.7	20.0	4.7
Elm Fork	30.0	17.8	12.2
Beckley Improvements	6.0	4.6	1.3
Total - 1998 BP - Trinity	\$246.7	\$201.9	\$44.8

# Funding Summary 2003, 2006, 2012 Bond Programs

	Total	Expended/ Committed	Remaining
	(\$ M)	(\$ M)	(\$ M)
2003 Bond Program			
Recreation	\$2.9	\$2.7	\$0.2
Total - 2003 B	P \$2.9	\$2.7	\$0.2
2006 Bond Program			
Recreation	40.9	39.2	1.7
Flood Control	143.6	141.3	2.3
Transportation	17.0	13.1	3.9
Total - 2006 B	P \$201.6	\$193.7	\$7.9
2012 Bond Program			
Flood Control	91.7	0.0	91.7
Trails	6.4	0.0	6.4
Total - 2012 B	P \$98.1	\$0.0	\$98.1

# Appendix D - Trinity Parkway EIS Summary

### Trinity Parkway Summary of Environmental Impact Statement (EIS)

- Conducted by North Texas Tollway Authority (NTTA)
- 1999: Notice of Intent and Project Scoping
- 2005: Draft EIS evaluated the social, economic and environmental effects of the Trinity Parkway alternatives
- 2009: Supplemental Draft EIS developed in response to the USACE to concerns about proposed floodway alternatives

### **Trinity Parkway**

**Summary of Environmental Impact Statement (EIS)** 

- 2012: Limited Scope Supplemental (LSS) to the Supplemental Draft EIS includes:
  - Evaluation of Trinity Parkway compatibility with levee remediation plans
  - Analysis of practicability of Trinity Parkway alternatives pursuant to Executive Orders regarding floodplain management and protection of wetlands
  - Provide update on historic resources
- FEIS Draft Public Notice and Meeting in 2014