#### Memorandum



DATE February 22, 2013

Members of the Transportation and Environment Committee: Linda L. Koop (Chair), Sheffie Kadane (Vice Chair), Sandy Greyson, Delia Jasso, Vonciel Jones Hill, Pauline Medrano

#### SUBJECT Dallas Horseshoe Project

On Monday, February 25, 2013, the Transportation and Environment Council Committee will be briefed on the Dallas Horseshoe Project. The material is attached for your review.

Please feel free to contact me if you need additional information.

Jill A. Jordan, P.E.

**Assistant City Manager** 

C: The Honorable Mayor and Members of the City Council

Mary K. Suhm, City Manager

Thomas P. Perkins, Jr. City Attorney

Rosa Rios, City Secretary Craig Kinton, City Auditor

Daniel F. Solis, Administrative Judge

A.C. Gonzalez, First Assistant City Manager

Ryan S. Evans, Assistant City Manager

Forest Turner, Assistant City Manager

Joey Zapata, Assistant City Manager

Jeanne Chipperfield, Chief Financial Officer

Edward Scott, Director, Controller's Office

Frank Librio, Public Information Office

Rick Galceran, Director, Public Works

Theresa O'Donnell, Director, Sustainable Development and Construction

Stephanie Cooper, Assistant to the City Manager - Council Office

TEXAS DEPARTMENT OF TRANSPORTATION - DALLAS DISTRICT



City of Dallas - Transportation and Environment Council Committee February 25, 2013

Economic Vibrancy

**OUTLINE** 



- Background: Project Pegasus
- Breakout Project: Horseshoe
  - Proposed Project
  - Purpose & Need
  - Coordination Efforts
  - Work Complete/Underway
  - Schedule

**BACKGROUND: PROJECT PEGASUS** 

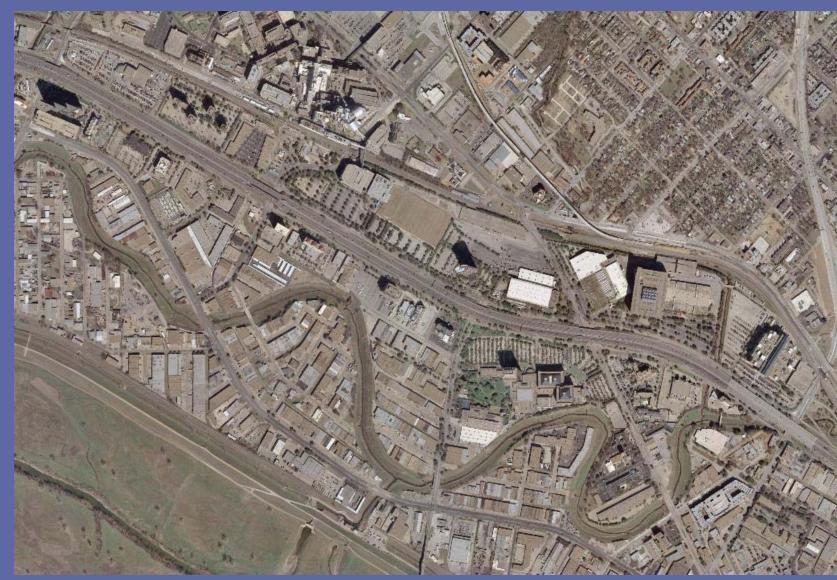


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IH 35E from Empire Central Drive (North of SH 183) to 8<sup>th</sup> Street

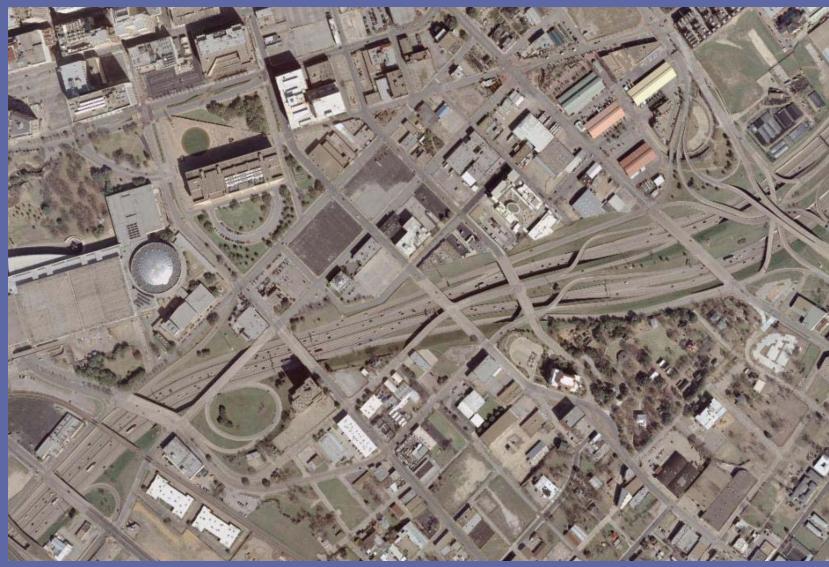
**COMPONENTS OF PROJECT PEGASUS: LOWER STEMMONS** 





**COMPONENTS OF PROJECT PEGASUS: CANYON** 





**COMPONENTS OF PROJECT PEGASUS: HORSESHOE** 





**OUTLINE** 



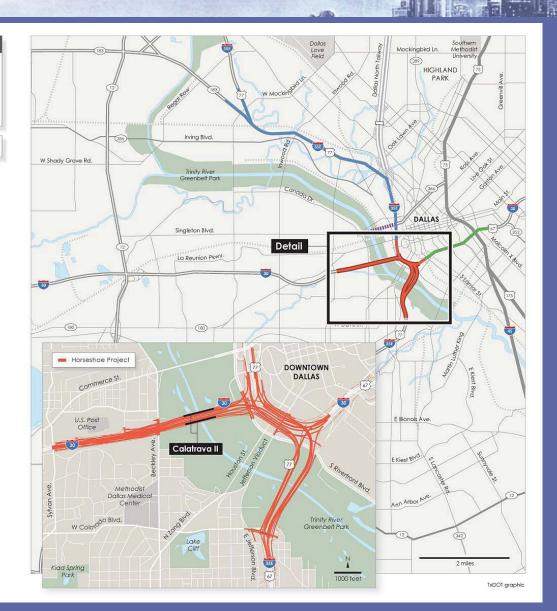
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**BREAKOUT PROJECT: HORSESHOE** 

#### **PROJECT PEGASUS:**

- Horseshoe Project (Horseshoe in dark red outline)
- Canyon
- Lower Stemmons

Calatrava | Bridge

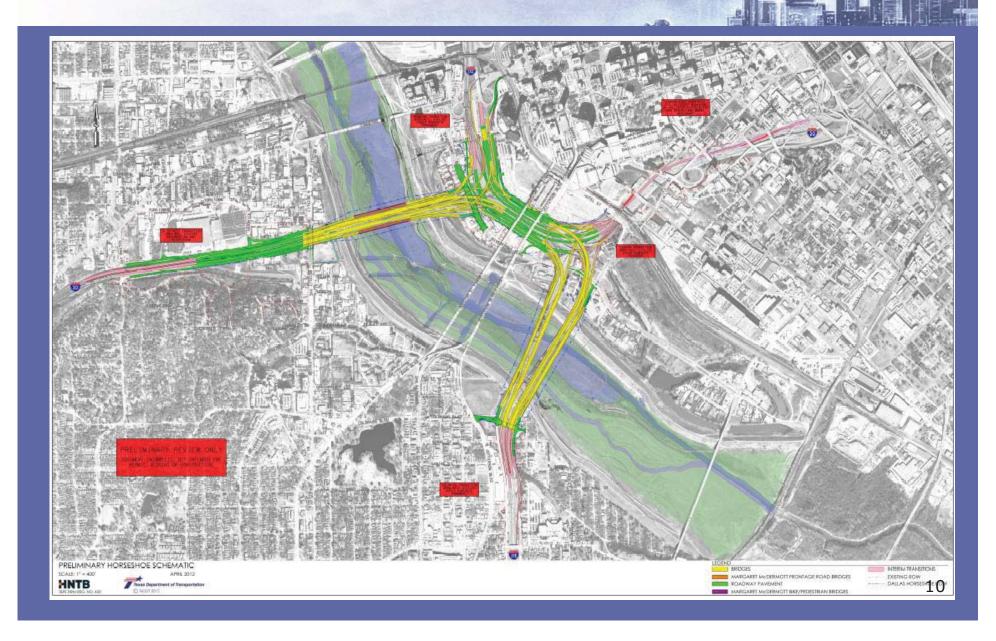


**HORSESHOE: PROPOSED PROJECT** 



- Replace I-30 & I-35E bridges crossing the Trinity River
- Upgrade outdated roadway geometry of the Mixmaster interchange
- Construct additional lanes to add capacity
- Build the Margaret McDermott signature Bridges

**HORSESHOE: PROPOSED PROJECT** 



**OUTLINE** 



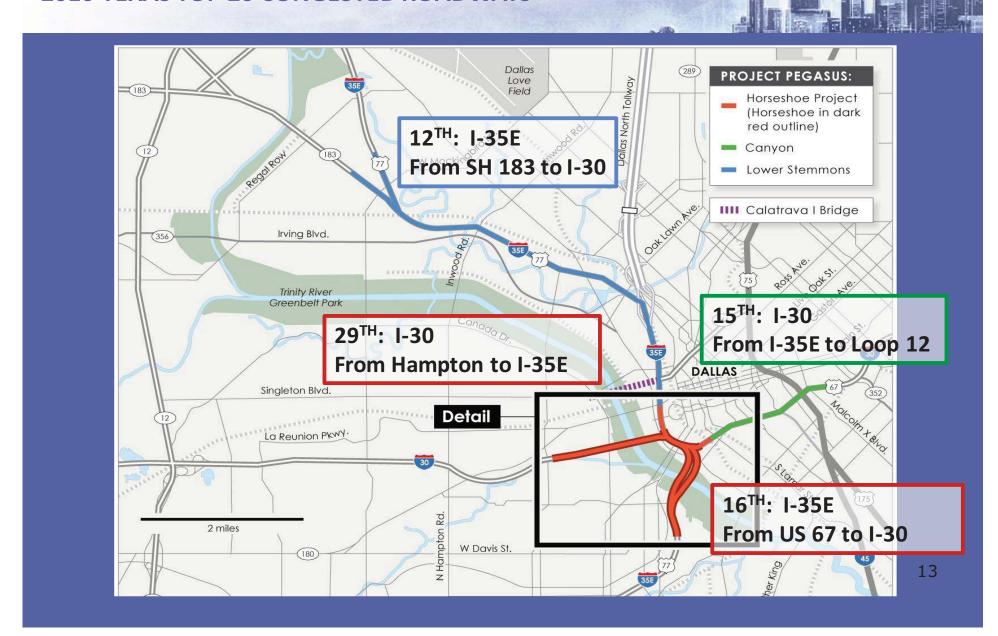
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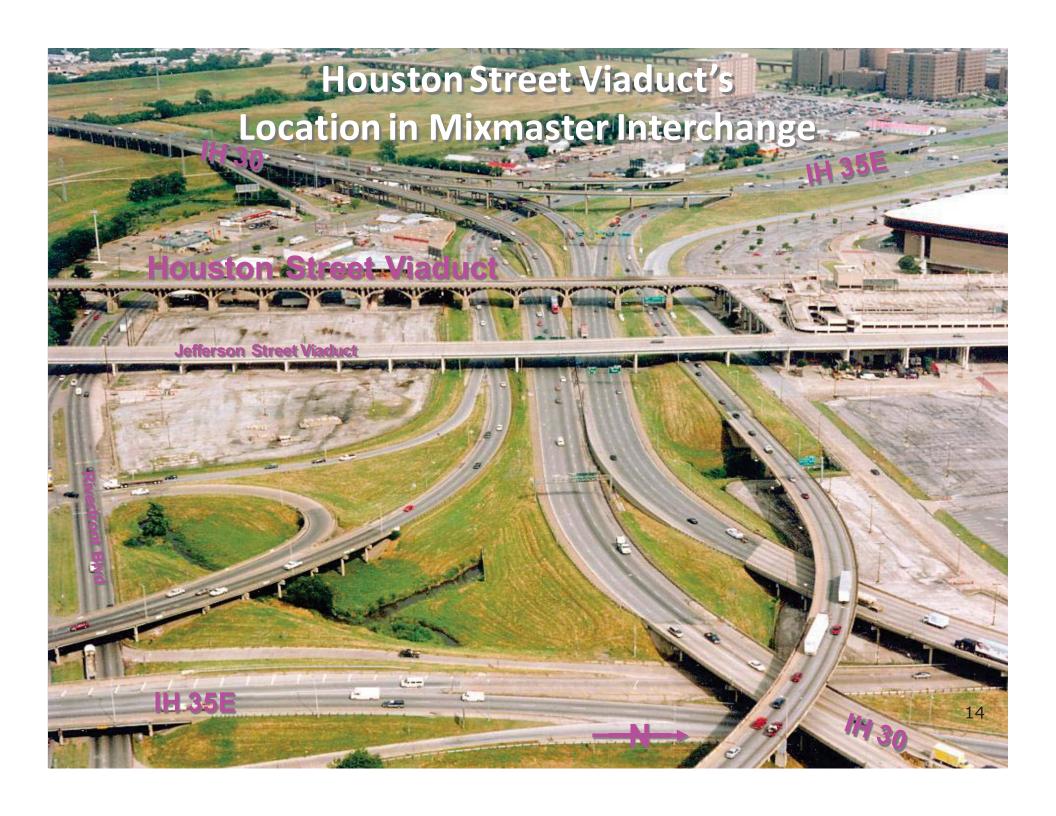
**HORSESHOE: PURPOSE & NEED** 



- I-30 & I-35E carry over 460,000 vehicles per weekday
- Rated in the top 20 most congested roadways in Texas
- Outdated roadway geometry
- Bridge deterioration
- Increasing costs to maintain & repair

2010 TEXAS TOP 20 CONGESTED ROADWAYS





HORSESHOE: OUTDATED ROADWAY GEOMETRY



traffic

Worth

USA Today, September 9, 2000

#### **Natio**

Here are the we "choke points" in t ing to the Americ Association:

- ▶ Boston. Inter and south. Boston' cuts an elevated downtown. It wa 1950s to carry 90 but it now overflov cars each day. Th stop-and-go traffic pected to stretch to 2010.
- ► Chicago. Inte Eisenhower Expr from western subt halt as 34,000 cars with 43,000 cars hower Expressway every day. The roac single lane for 11 opening to multi; should be a 20-micity can take more

▶ Dallas. Interstate 35 at Interstate 30. Known as the "Mix Master" by local motorists, these two highways merge and struggle to carry more than 200,000 vehicles a day from downtown through the steep hills of "The Canyon."





I-30 AND I-35E: BRIDGE SUFFICIENCY RATINGS









**I-35E NB BRIDGE PICTURES** 



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**HORSESHOE: COORDINATION EFFORTS** 



- City of Dallas
  - Construction of the Margaret McDermott Bridges
  - Accommodating the future Trinity Lakes Project
  - Accommodating the future Jefferson/Memorial Project
  - Operational improvements for connections to downtown (During construction and after)
  - Easements across the Trinity River floodway
  - Beckley and Riverfront construction
  - Floodplain management and access
  - Able Sumps

HORSESHOE: COORDINATION EFFORTS



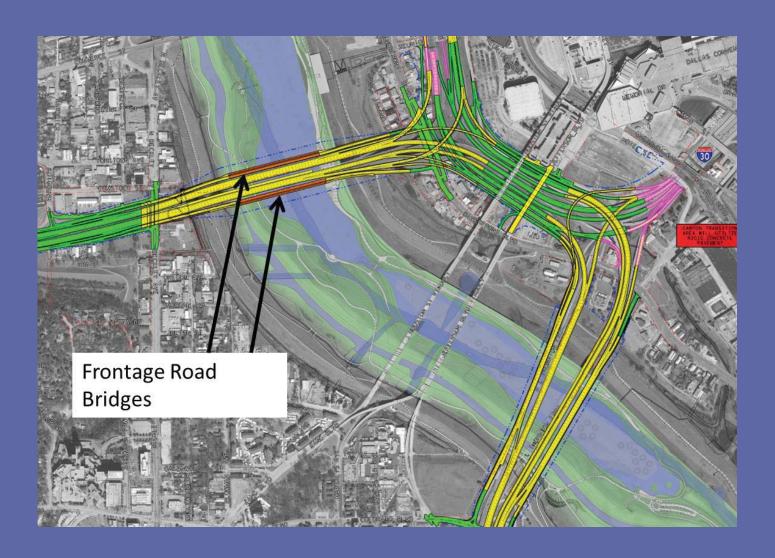
- NCTCOG
  - Project Funding
- USACE
  - Section 408 permitting
- NTTA
  - Accommodating the future Trinity Parkway
- Dallas County
  - Riverfront Blvd. reconstruction

**HORSESHOE: COORDINATION EFFORTS** 



- Utilities
  - Oncor Transmission Tower Relocation
  - DWU Water and wastewater accommodations
- Local Stakeholders
  - Methodist Hospital
  - Hyatt Regency Reunion
  - Fuel City
  - American Airlines Center

**HORSESHOE: Margaret McDermott Bridges** 



**HORSESHOE: Margaret McDermott Bridges** 



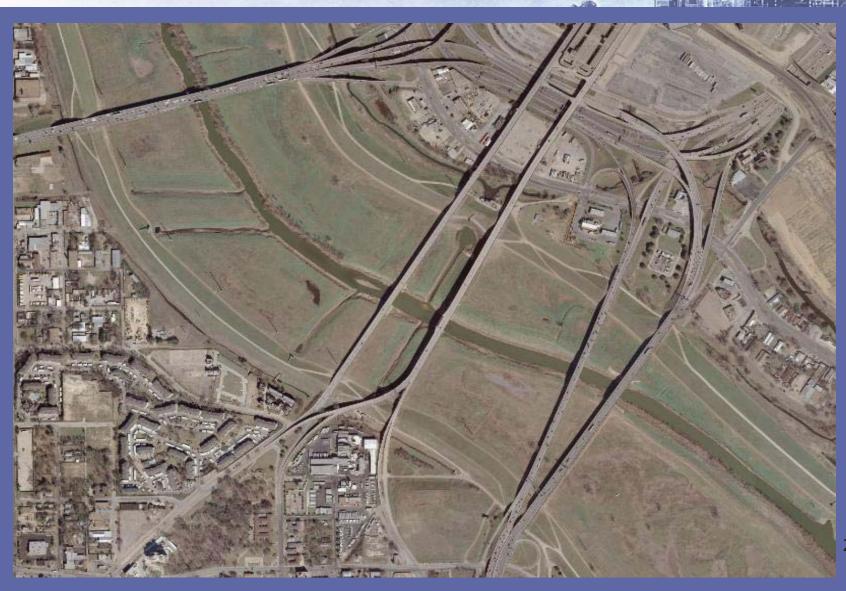
- Hike/Bike facilities along the IH 30 eastbound and westbound frontage roads
- Designed and engineered to 100% by Santiago Calatrava, LLC
- Under contract with the City of Dallas
- Built by the Design-Build Contractor

**HORSESHOE: Margaret McDermott Bridges** 

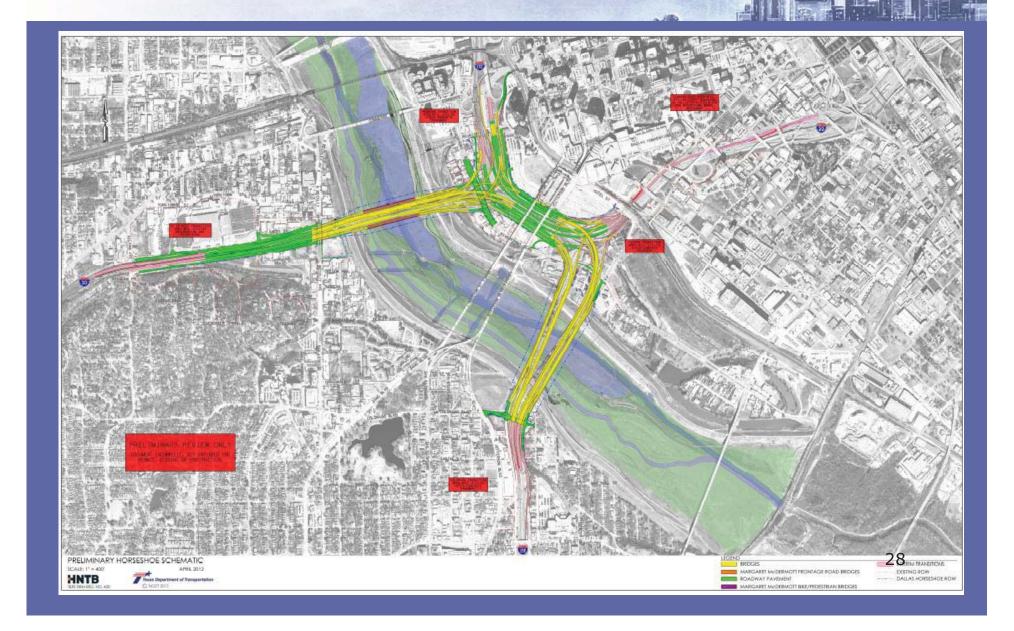




**CROSSING THE TRINITY RIVER LEVEES** 



**ACCOMMODATING FUTURE TRINITY LAKES PROJECT** 



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**HORSESHOE: WORK COMPLETE/UNDERWAY** 



- Commission approved funding
- Commission approval to "Design-Build"
- I-30 and I-35E: 30% design complete
- Horseshoe FONSI September 18,2012
- USACE 408 Minor October 19, 2012
- Contract Execution February 20, 2013
- ROW Acquisition
- Oncor Transmission Lines Relocation (Fall)

**PROJECT FUNDING AND COST** 



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NOCT	LIIM	ding

•	Prop 12 P2 PE/ROW	\$100.8 M
•	Prop 12 P2 TMA	\$87.1 M
•	Prop 12 P2 Bridge	\$400.5 M
•	Prop 12 P1 (Anticipated)	\$16.3 M
	Prop 14 (Anticipated)	\$7.0 M
•	SH 121 RTR	\$21.5 M
•	Cat 10 HPS/DEMO	\$106.4 M
	Cat 6 Federal Bridge	\$75.0 M
•	Cat 7 STP-MM	\$4.5 M
_	Total	\$819 M

## Project Cost

Original Estimate	\$818 M
Total Bid	\$798 M <sup>3</sup>

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# **Next Steps: Preliminary Timeline**



Selected Procurement Team

Issued RFQ



**December 2011** 

March/April 2012

Short-List Proposers
Issue Draft RFP

July 3, 2012
Issue Final RFP

February 2012

Receive Qualifications

May/June 2012

One-on-One

**Meetings** 

**Environmental Clearance Receive Proposals** 

**November 15, 2012**Conditional Contract Award

**February 20, 2013**Contract Execution

Spring 2017

**Construction Complete** 

**Start Construction** 

**QUESTIONS** 





Duane Milligan, P.E.

Dallas Horseshoe Project

Project Engineer

Ceason Clemens, P.E.

Dallas District

Deputy Project Engineer