

Lavon Lake Route Study

FM 1378 to SH 78

Public Meeting

City of Wylie Municipal Complex

October 7, 2009



Lavon Lake Route Study

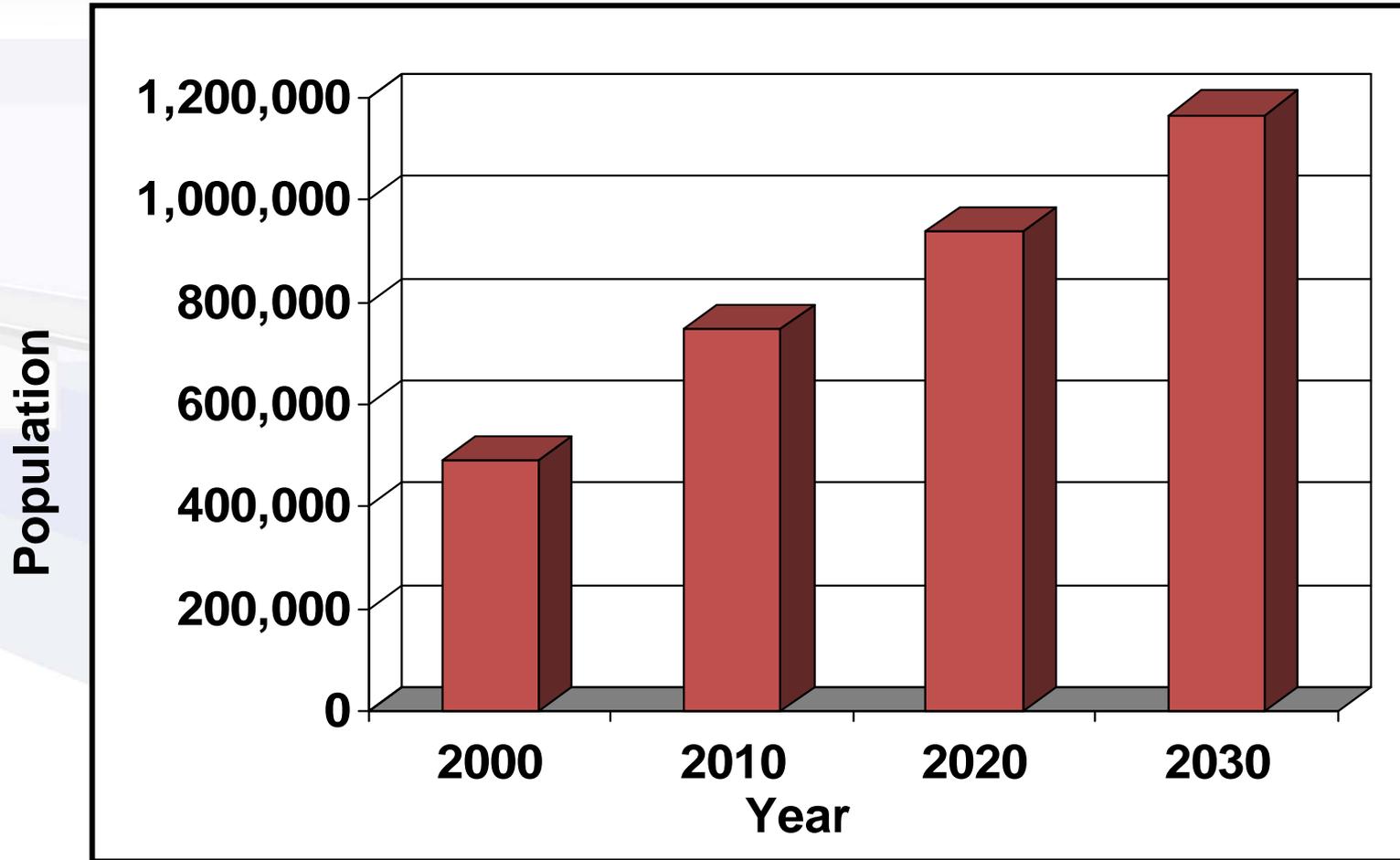
Public Meeting Agenda

- Project Need and Purpose
- Route Study Process
- Data Assembly and Review
- Alternative Alignment Development
- Evaluation Criteria
- Project Schedule
- Questions and Comments



Project Need and Purpose

Collin County Population Growth

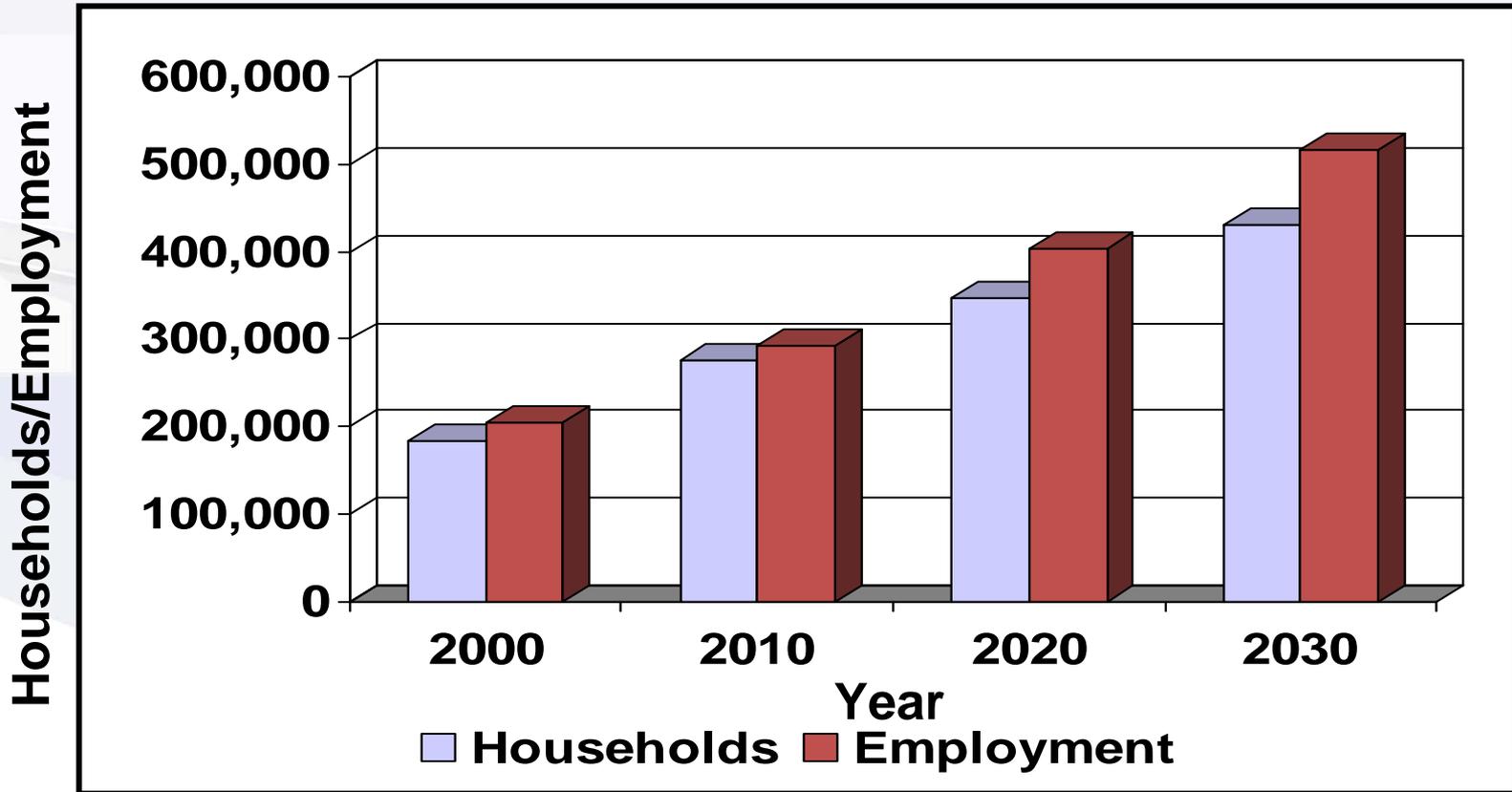


Data Source: www.nctcog.org



Project Need and Purpose

Collin County Household and Employment Growth



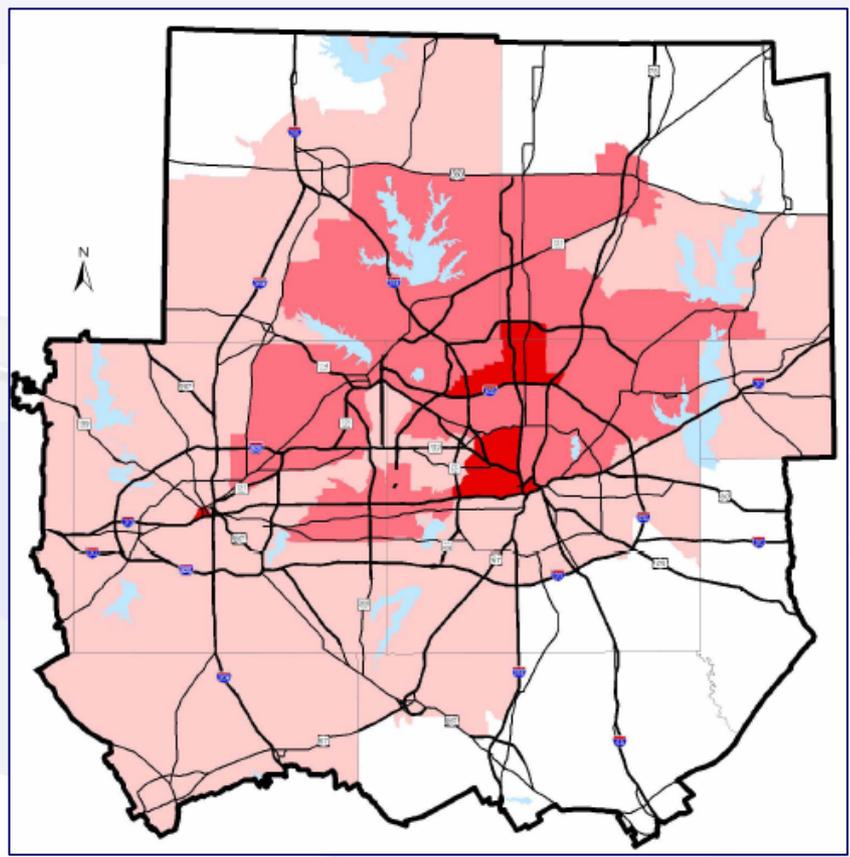
Data Source: www.nctcog.org



Project Need and Purpose

Regional Congestion Growth

2009 Congestion Level



Legend

- Areas with No Congestion
- Areas with Light Congestion
- Areas with Moderate Congestion
- Areas with Severe Congestion
- Roadways

Source: www.nctcog.org

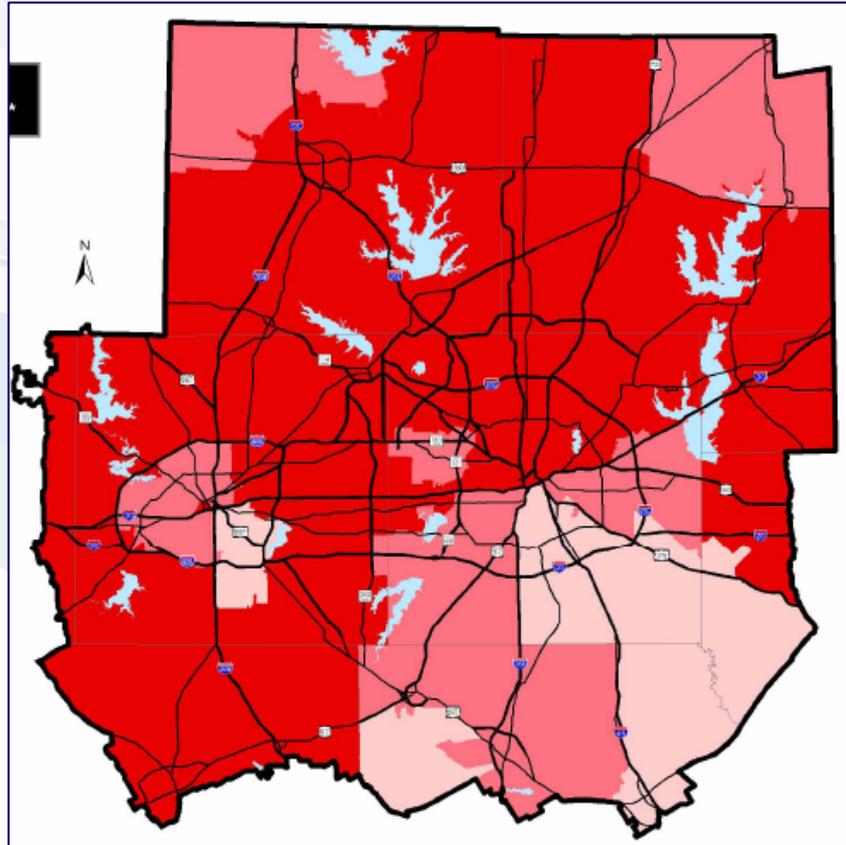


Lavon Lake Route Study

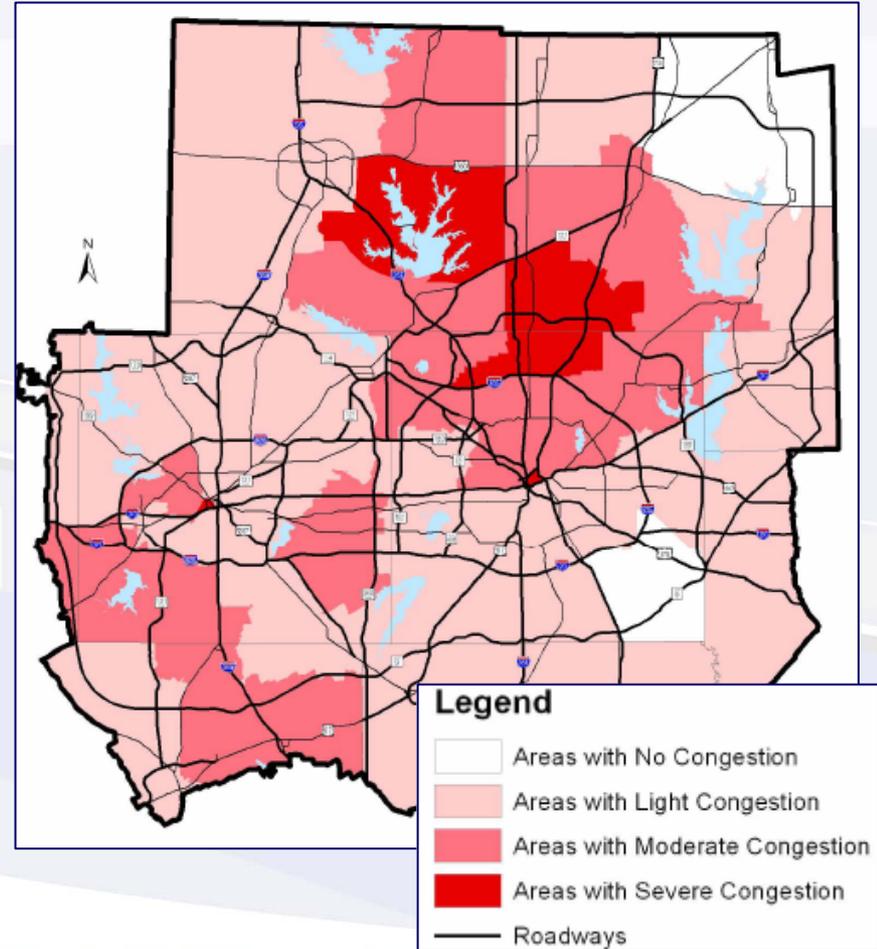
Project Need and Purpose

Regional Congestion Growth

2030 Congestion Level (No Build)



2030 Congestion Level (Build)



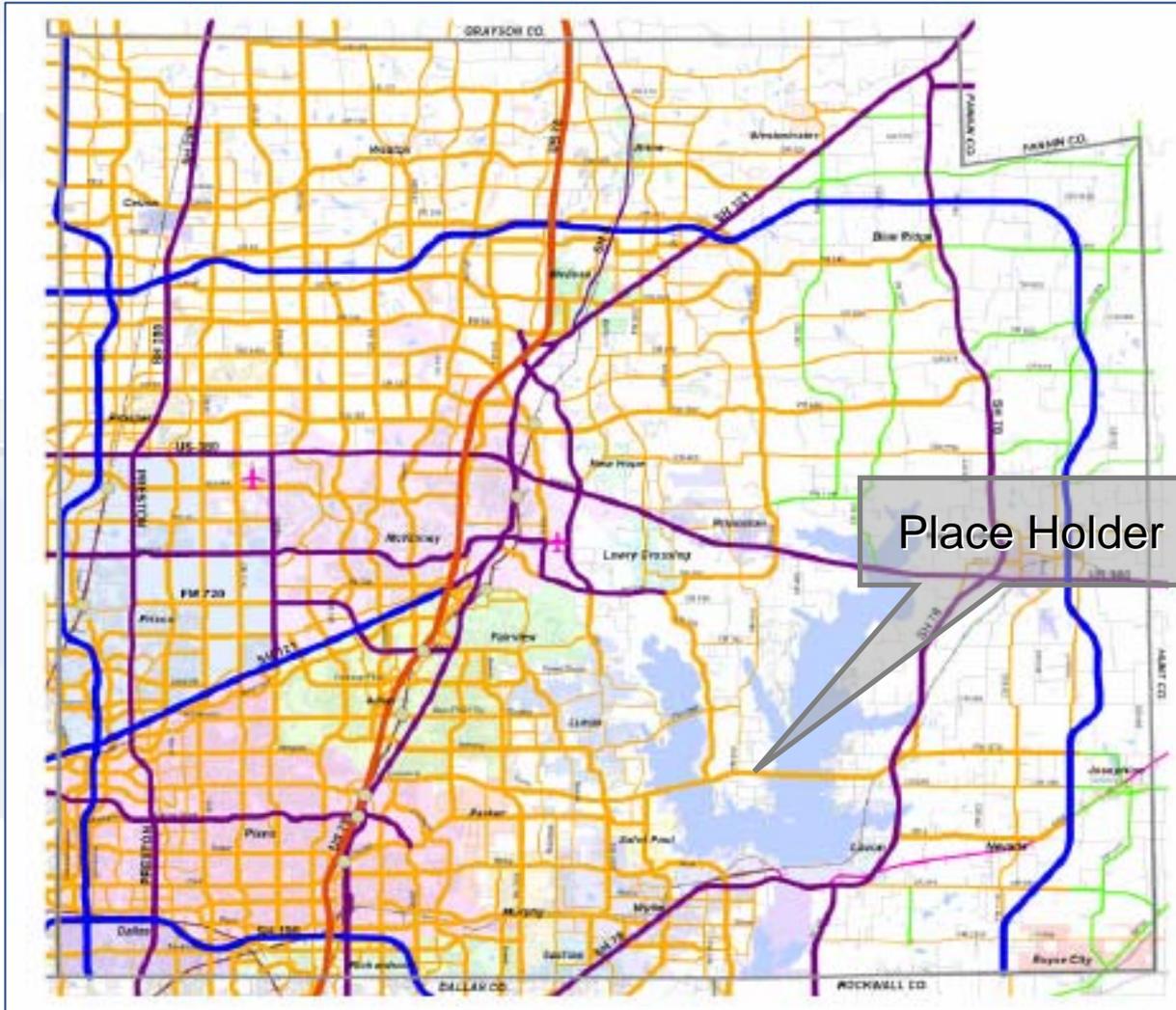
Source: www.nctcog.org



Lavon Lake Route Study

Project Need and Purpose

Collin County Thoroughfare Plan 2007 Update



Source: www.co.collin.tx.us



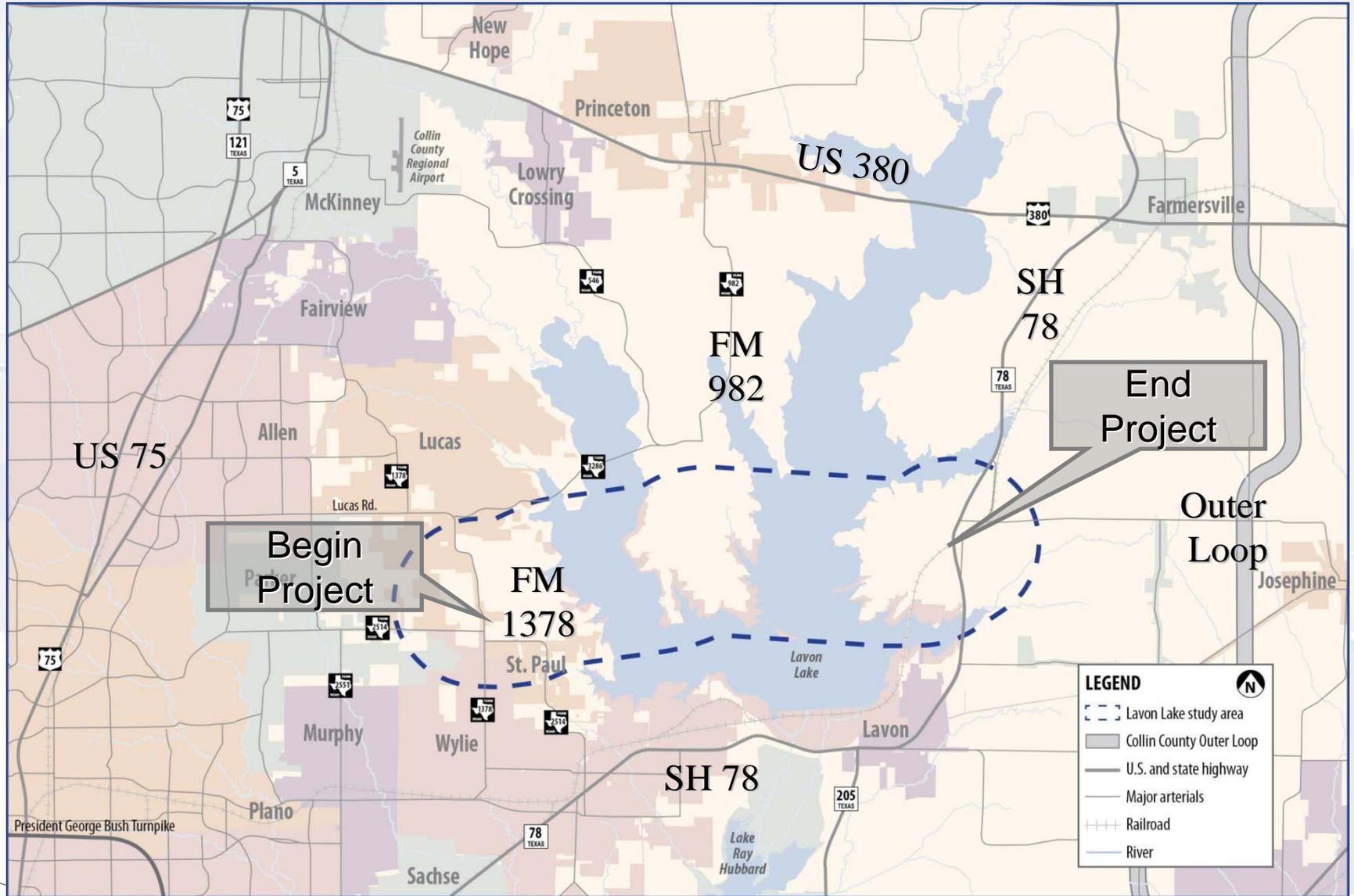
Lavon Lake Route Study

Project Need and Purpose

- Identify a technically feasible alignment to accommodate the growing east-west transportation needs resulting from population growth and development.
- Provide direct access to/from the peninsula for greater mobility and emergency access.
- Provide direct connectivity to US 75 and the future Outer Loop for greater mobility and emergency access.
- Provide an alternate east-west route other than US 380 and SH 78 in southeastern Collin County to mitigate for congestion levels.

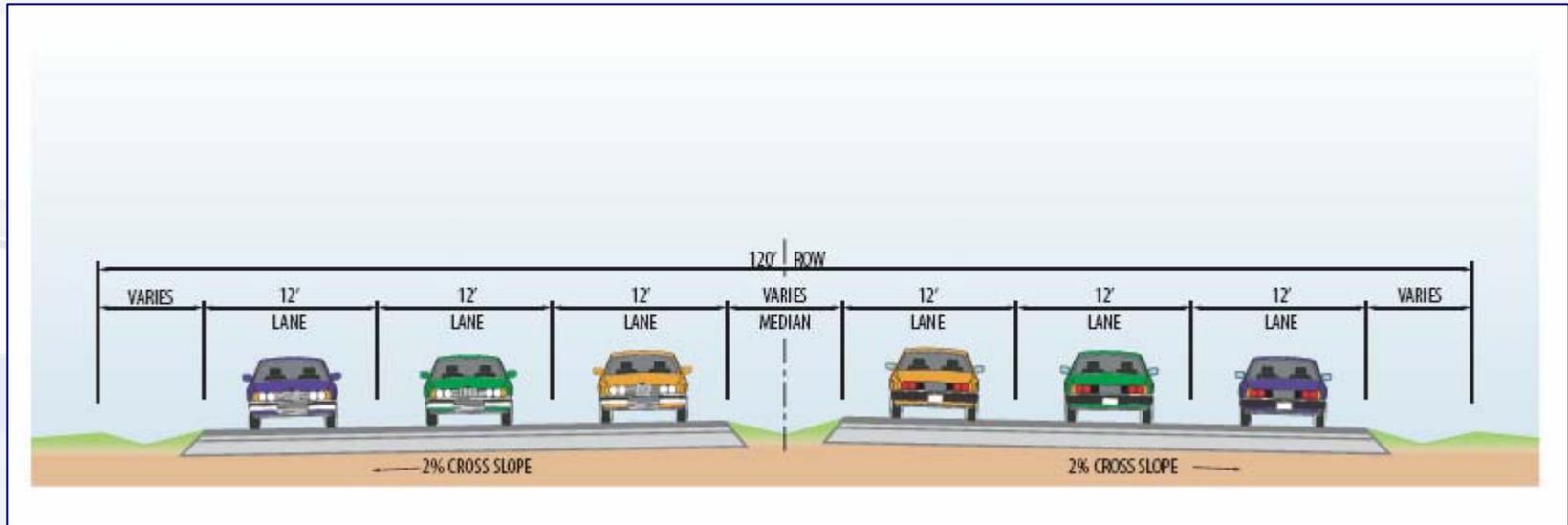


Project Location Map



Lavon Lake Route Study

Proposed Typical Section



**Major Arterial
Six Lane Divided with Median (120' ROW)**



Route Study Process

➤ Data Assembly and Review

- Develop Environmental Constraints Map
- Coordination with Cities and Agencies

➤ Develop Alternative Alignments

➤ Public Meeting 1

- Refine and evaluate alternatives based on public input and comments
- Develop technically feasible alternative alignment

➤ Public Meeting 2

- Refine technically feasible alternative alignment based on public input and comments

➤ Public Hearing (Recommendation to Commissioners Court)

- Technically feasible alignment is approved

➤ Develop Final Report



Data Assembly and Review

Constraints

Developments

Schools

Cemeteries

Floodplains

Parks

Rivers and Lakes

Wetlands

Railroads

Historic Features

Utilities

Coordination with Cities/Agencies

City of Lucas

Town of St. Paul

City of Wylie

North Texas Municipal Water District

Corps of Engineers

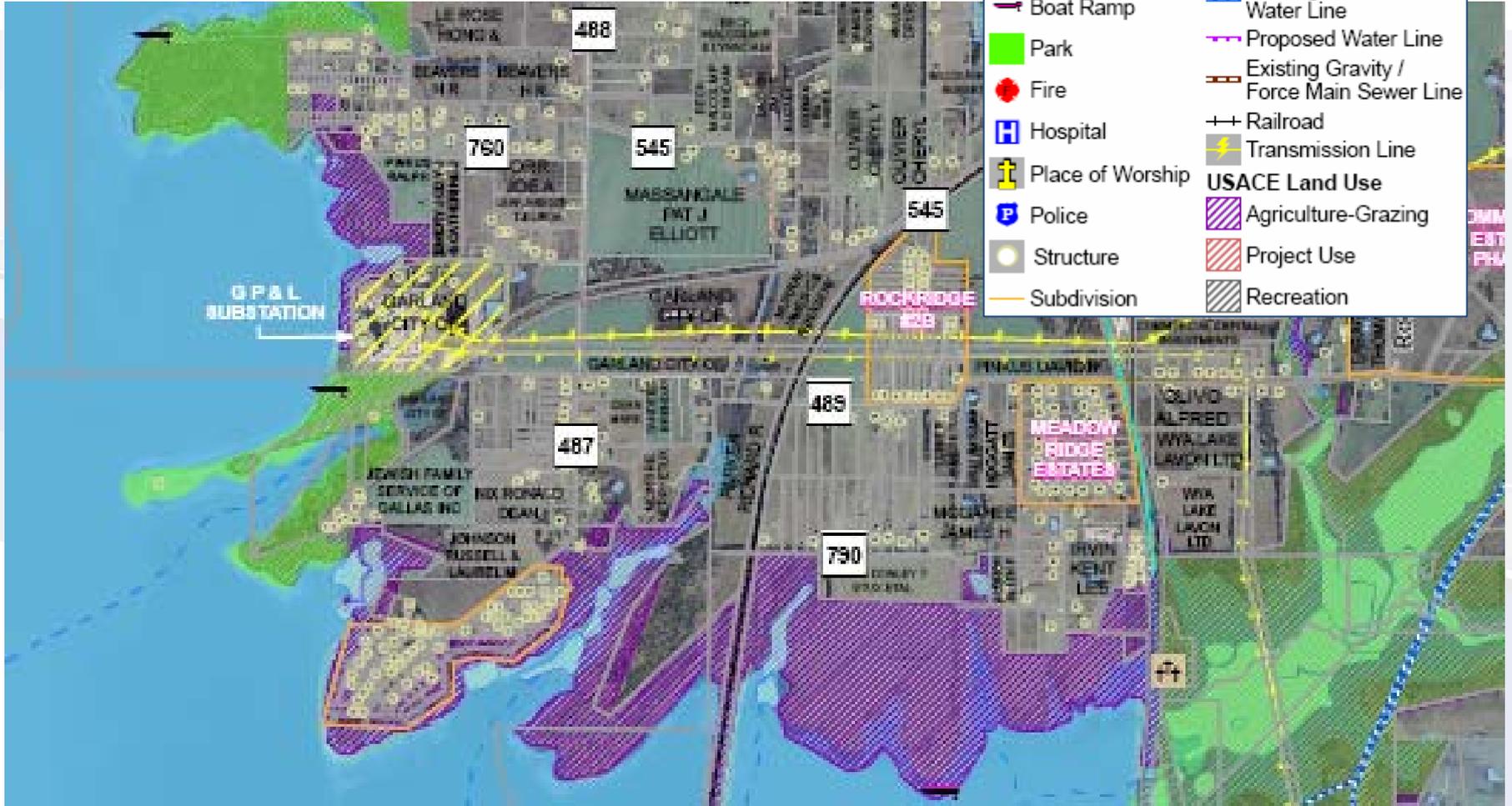
Texas Archeological Research

Laboratory



Data Assembly and Review

Environmental Constraints Map



Alternative Alignment Development

➤ Geometry

- Must meet geometric design criteria (45 mph land side and 60 mph across lake)
- Minimize skewed intersection geometry

➤ Avoid and/or minimize impacts to environmental features

- Minimize the impacts to the number of parcels and structures (homes) affected.
- Utilize existing and/or future roadway networks



Alternative Alignment Development

Initial Alternative Alignments



Lavon Lake Route Study

Evaluation Criteria

Enhanced Mobility / Safety

- Accessibility
- Safety

Cost Effectiveness

- Construction Cost
- ROW Acquisition
- Utilities/Infrastructure

Engineering Feasibility

- Compatibility with Other Projects

Environmental Features

- Noise Impacts
- Natural Impacts
- Cultural Impacts
- Hazardous Materials
- Socio-Economic and Neighborhood Impacts

Public Involvement

- Public Involvement



Evaluation Criteria

Alternatives Evaluation Matrix

Category	Criteria	Alternatives		
		Alternative 1	Alternative 2	Alternative 3
Enhanced Mobility and Safety	Accessibility			
	Safety			
Cost Effectiveness	Construction Cost			
	ROW Acquisition			
	Utilities and Infrastructure			
Engineering Feasibility	Compatibility with Other Projects			
Environmental Features	Noise Impacts			
	Natural Impacts			
	Cultural Impacts			
	Hazardous Materials			
	Socio-Economic and Neighborhood			
Public Input	Public Input			

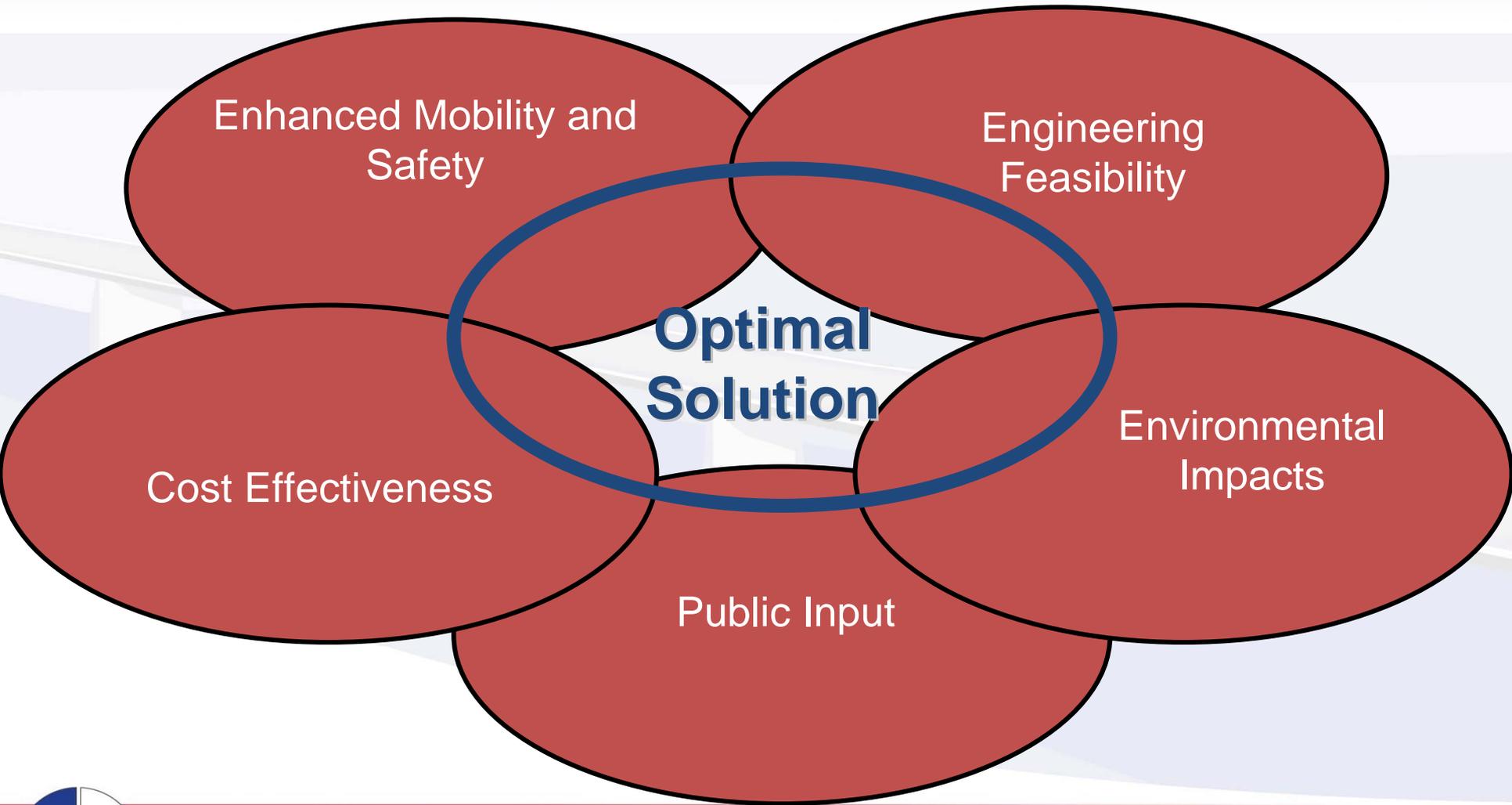
Key to Ratings:

Significant Negative Effect	Some Negative Effect	No Effect, Neutral	Some Positive Effect	Significant Positive Effect
--	-	○	+	++



Evaluation Criteria

Achieving the right balance



Project Schedule

➤ Spring 2009

- Data Collection and Review

➤ Summer 2009

- Alternative Alignment Development

➤ Fall/Winter 2009

- Alternative Alignment Evaluation and Development of Technically Feasible Alternative Alignment

← We are here

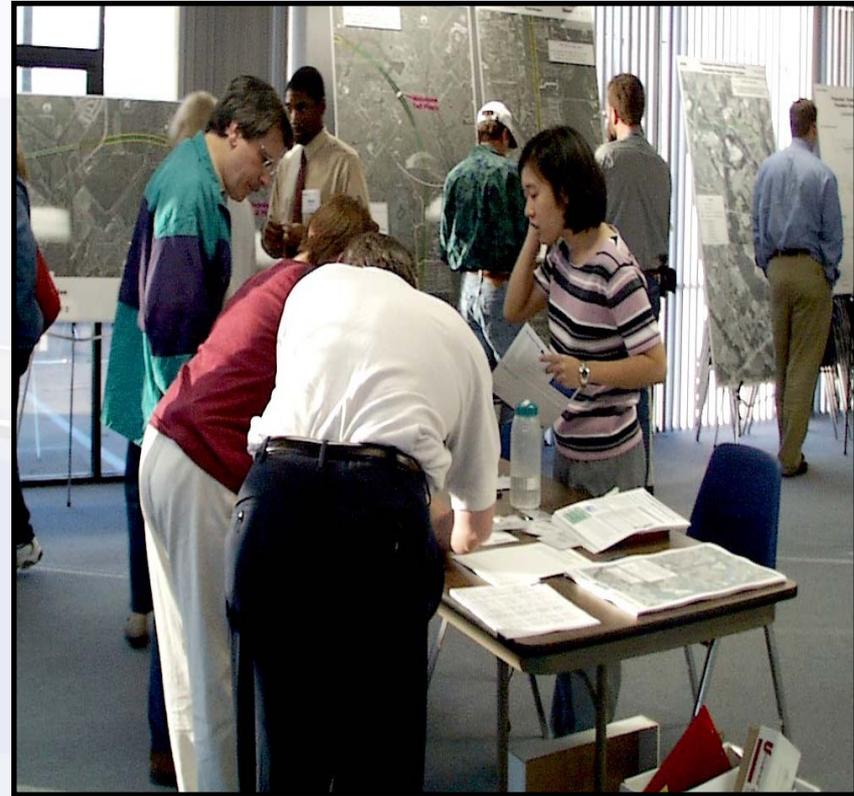
➤ Spring 2010

- Approval of Technically Feasible Alternative Alignment
- Final Report



Public Involvement Process – How to Get Involved

- Attend Public Meetings
- Mark your comments/suggestions directly on the maps
- Submit comments



Questions and Comments

1. Speak at Public Meeting

2. Comment Cards

Submit Today or Mail to Study Team

3. Contact Information:

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