

# Proposed Travis County 2011 Bond

## DRAINAGE PROJECTS

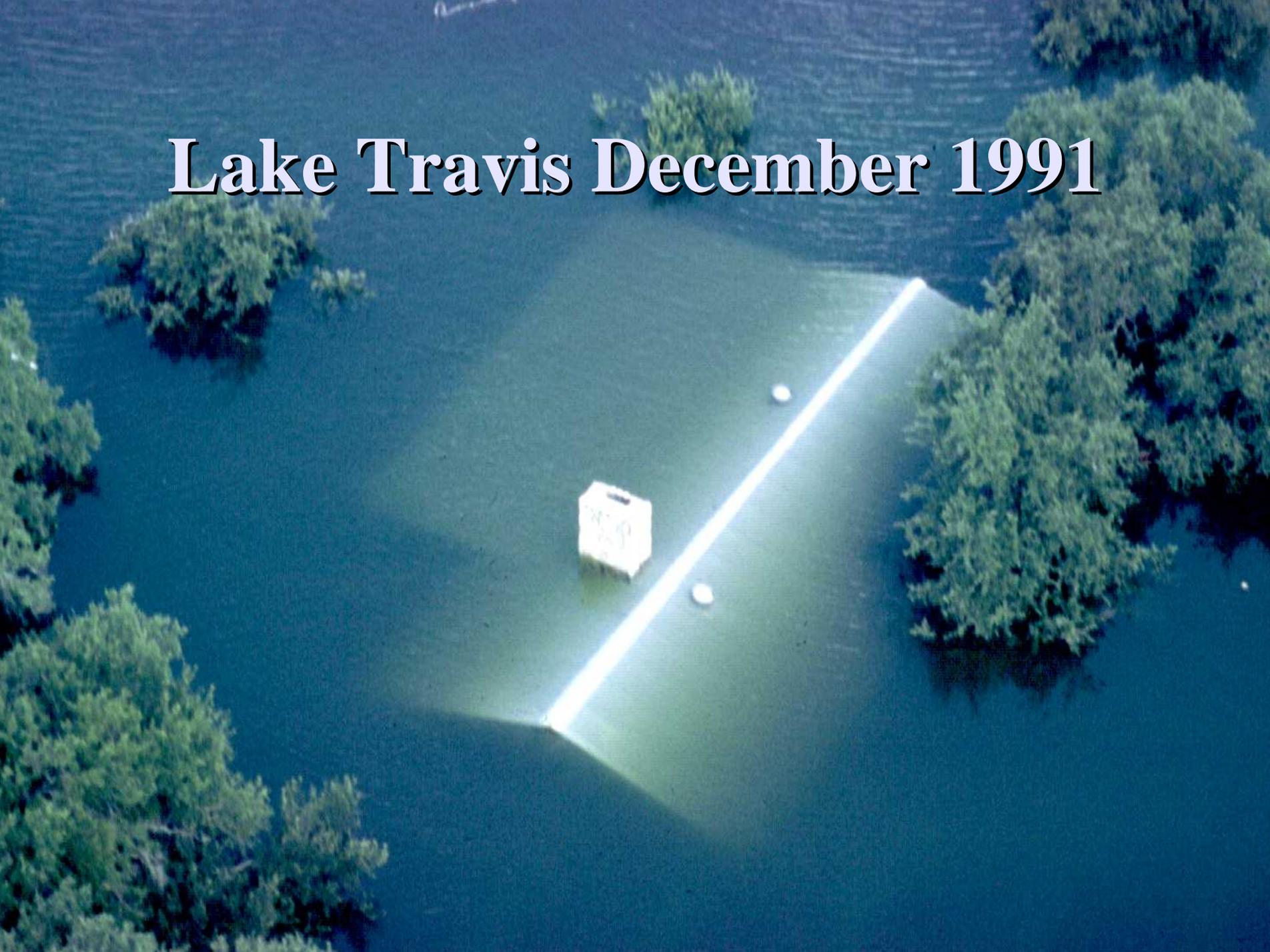
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# WHY CONSIDER DRAINAGE PROJECTS?

- TO PROTECT THE HEALTH AND SAFETY OF CITIZENS  
44% of all weather related deaths are from flood.
- TO PROTECT PROPERTY  
9% of buildings (15% of land) in Travis County are in the FEMA floodplain.  
Approximately 6725 structures, 15000 parcels
- Many other buildings that flood are not in a mapped floodplain.
- TO PROTECT INFRASTRUCTURE (COUNTY ROADS AND DRAINAGE SYSTEMS)
  - 69.7 miles of County roads are in the FEMA floodplain.
  - 110 low water crossings in the County.

# Lake Travis December 1991



# WHY CONSIDER DRAINAGE PROJECTS?

- Public resources affected by flood
  - Emergency Services Personnel
    - Rescue
    - Road closures
  - Roadways and Bridges
    - Debris removal
    - Road and bridge repair
  - Property Values/ Tax Base

# Recent Floods

- June 1997 - Lake Travis and Colorado River Flooding
- October 1998 - Onion Creek Flooding
- November 2001- Onion Creek Flooding
- July 2002 – Onion Creek Flooding
- November 2004 and 2007– Lake Travis and Colorado River Flooding
- Every time it rains-Localized flooding due to poor drainage

# Why us?

- The manner in which we receive the rain
  - Too much at once.
  - The hill country including Travis County is number one in the nation for flash floods.
  - Between 1950 and 2009 - 113 flood events
  - The area receives an average of 32 inches of rain annually. In 2004 the amount was 53 inches of rain.

# Why us?

- The topography and geology of the county
  - While the east and west sides differ, they both suffer flooding
- Man Made changes to the drainage patterns
  - County floodplain regulations adopted 1975
  - County drainage regulations adopted 1983

# Proposed 2011 Travis County Bond Drainage Projects- Stream Crossings



# Proposed 2011 Travis County Bond Drainage Projects - Stream Crossings

## 2009 Drainage Basin Study

- Access During Flood Conditions
  - Alternative Routes
  - Depth of flooding
  - Frequency of flooding
- Reduce Flooding of Habitable Structures

# Proposed 2011 Travis County Bond Drainage Projects- Subdivision



2004 11 22

# Proposed 2011 Travis County Bond Drainage Projects- Subdivisions

## 2009 Drainage Basin Study and Floodplain Studies

- Habitable Structures
- Impact on Emergency Access
- Depth of Roadway Flooding
- Inundation of Private Property

Questions????