# DALLAS COUNTY INLAND PORT FLOOD PLANNING STUDY ELECTED OFFICIALS – FLOOD PLAIN SEMINAR OCTOBER 19, 2023

DALLAS







John Wiley Price Dallas County Commissioner, District 3



- Welcome
- Dallas County Inland Port-Background
- Project's Conception
- Stakeholders
- Purpose
- Scope
- Schedule
- Status
- How to get Involved
- Next Steps

## DALLAS COUNTY INLAND PORT

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## ABOUT THE

- 78,000 Acre area
- South of Loop 12/Ledbetter, east of I-35, west of the Trinity River, and north of Ellis County
- Includes Union Pacific's \$100 million intermodal facility.
- No formal boundaries.
- Located in several cities and in Dallas County's unincorporated area.
- Multiple property-owners and developers.
- Privately-owned and developed; no special governmental entity or port authority involved.
- Receive goods from the West Coast, the East Coast, and the Gulf of Mexico.





### LOCATION SUITABILITY

- 2,000,000 people live within 30 minutes.
- Large tracts of undeveloped land.
- State-of-the-art intermodal facility.
- Proximity to intersection of major east-west and north-south interstate highways.
- Access to major markets and points of entry.
- Centralized U.S. location.
- Proximity to major airports.
- Inland Port Transportation Management Agency





### BUSINESSES IN THE SOUTHERN DALLAS COUNTY INLAND PORT





### INLAND PORT GROWTH COMPARISON (2006 & 2023)





## HOW WAS THE PROJECT CONCEIVED

#### TEXAS WATER DEVELOPMENT BOARD (TWDB) FLOOD INFRASTRUCTURE FUND (FIF)

 Passed by the Legislature and approved by Texas voters through a constitutional amendment in 2019, the FIF program provides financial assistance in the form of loans and grants for flood control, flood mitigation, and drainage projects





#### FIF OVERVIEW

- In 2020, TWDB had received approximately \$800 Million to provide grants to communities for Flood Mitigation and Prevention
- The TWDB had developed 4 categories of funding:
  - CATEGORY I Flood Protection Planning for Watersheds
  - CATEGORY 2 Planning, Acquisition, Design, Construction, Rehabilitation (All combinations of these activities)
  - CATEGORY 3 Federal Award Matching Funds
  - CATEGORY 4 Measures immediately effective in protecting life and property





#### DALLAS COUNTY INLAND PORT FLOOD PLANNING STUDY FUNDING

Dallas County received funding for the Dallas County Inland Port Flood Planning Study using Category I Funding from the TWDB

- Dallas County submitted the Full Application for the grant in Fall of 2020.
- Dallas County Commissioners Court authorized the matching funds and required documents September 21, 2021.
- Dallas County authorized the Consultant Agreement in March of 2022.





#### DALLAS COUNTY INLAND PORT FLOOD PLANNING STUDY

## **STAKEHOLDERS**















**City of Dallas** 









MESQUITE S. Real. Texas. Flavor.











## **STAKEHOLDERS**



OD PLANNING STUDY

## WHY IS THIS PROJECT IMPORTANT



### PURPOSE OF STUDY

- Minimize Loss of Life
- Minimize Loss of Property
- Determine Approach to Minimize
   Flooding
- Submit Projects to the State for Funding
- August 22, 2022 Flooding 2nd most rain in 24 hours in Dallas County since records kept



#### PROJECT LOCATION

- Hydraulic Unit Code (HUC-10) 1203010502
- Dallas County Inland Port
- Approx. 230 sq. miles
- Major Tributaries
  - Trinity River
  - Ten Mile Creek



## **CONSULTANT TEAM**





### Kimley **»Horn**

















#### PROJECT SCOPE

- H&H study of the overall HUC-10 area including:
- Ten Mile Creek,
- Cottonwood Creek,
- Rawlins Creek
- Hydraulic (stormwater) study of the Inland Port area to include assessment of existing drainage infrastructure - trunk lines with pipes 24" and larger



#### PROJECT SCOPE

- Floodplain Mapping and review of drainage design criteria
- Determine level of protection offered by current system
- Recommend future improvements and identify projects
- Flood Mitigation Evaluations
- Flood Mitigation Strategies
- Flood Mitigation Projects





#### ESTIMATED PROJECT SCHEDULE

#### Major Milestones:

- I. Data Acquisition On-Going
- 2. Public Meeting I/Fall 2022
- 3. Survey Winter 2022 Winter 2023
- 4. Modeling Fall -Winter2023
- 5. Public Meeting 2/Findings Fall 2023
- 6. Preliminary Study Report- Fall 2024
- 7. Public Meeting 3/Final Study Winter 2024
- 8. Final Study Report January 2025











#### CURRENT STATUS

#### Surveying

- Hutchins Creek
- Inland Port Storm Sewer

Modeling

- Finalize Dallas Data Input
- Finalize Wilmer/Hutchins Data
- Finalize Lancaster Data
- Survey Inland Port Area
- Creek Modeling
- Inland Port Modeling









### WHAT'S NEXT

- Finalize Data Gathering
- Complete Surveying
- Continue Modeling
- Evaluate Current System
   Capacity
- Identify flood-prone areas
- Develop Mitigation
   Strategies





#### MODEL VALIDATION

#### Continuous - 3 Months

- Ten Mile Creek
  - Ferris Rd
- Cottonwood Creek
  Beltline Road
- Rawlins Creek
  - Miller's Ferry Road

#### Monitoring

- Depth
- Flow
- Velocity
- Rain







#### HUTCHINS ANALYSIS

- Rawlins Creek
- Hutchins Creek
- 4B4
  - UPRR
  - Old Main St.
  - Millers Ferry Rd





#### PROJECT EVALUATIONS

#### Develop Mapping of modeling

- Effective Model Floodplain Floodplain with Improvements

#### Calculate Floodplain data

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- Acres Removed Structures Removed Critical Facilities Removed Roadway Removed Others

- No Impact Analysis
  No Increase in velocity
  No loss of valley storage
  No change in WS elevation



### **CITY COORDINATION**

- Continue to work with the City's team
  - Coordinate with ongoing modeling efforts in the City
- Develop FME's for Priority Projects
- Determine State Scoring for Projects
- Develop Cost/Benefit Ratios
- Submit FMP's to State





#### HOW TO GET INVOLVED

Visit website

• dallasinlandportfps.org

> Attend public meetings

Submit Comments







