MINUTES - REGULAR MEETING
CAPITAL IMPROVEMENTS ADVISORY COMMITTEE
CITY OF CORPUS CHRISTI
AMERICAN BANK CENTER-ROOM C101/102
1901 SHORELINE BLVD
MAY 18, 2023
11:30 A.M.

COMMITTEE MEMBERS:
Moses Mostaghasi-Chairman
Coretta Graham-Vice Chairman
Tricia Aitken
Bart Braselton
Rudy Garza, Jr.
Hailey Gonzalez
Jonathan Gonzalez

COMMITTEE MEMBERS:
Alex Harris
JJ Hart
Ann Mahaffey
Eli McKay
Melody Nixon-Bice
Chad Skrobarczyk
Trey Summers
Velda Tamez

I. Call to Order/Roll Call

The meeting was called to order by Vice Chairman Graham at 12:19 pm and a quorum was established with Chairman Mostaghasi, (arrived 12:47 pm), committee members Braselton, (arrived at 12:56 pm), Garza, Jonathan Gonzalez, Mahaffey, and Skrobarczyk absent.

II. Public Comment: None.

III. Approval of Minutes: April 26, 2023.

A motion was made by Member Hart to approve the minutes and seconded by Member McKay. The motion passed. The Vote: All Aye.

IV. Approval of Absences: Vice Chair Graham, Member Summers.

A motion was made by Member Nixon-Bice to approve the absences and seconded by Member Aitken. The motion passed. The Vote: All Aye.

V. Brief Review of April 26, 2023 meeting:

- Roadway Master Plan comments (due May 11th, 2023)
- SharePoint access issues
- Concerns, suggestions, remarks.

VI. Discussion or Possible Action:

- **Stormwater Master Plan Review: Presentation by Pape-Dawson:**

Hydrology & Hydraulics
- Update studies citywide
- Method varies based on infrastructure and drainage patterns
- Existing and ultimate conditions

Capital Improvement Plan Update
- Identify Potential Mitigation Areas (PMAs)
- Rank PMAs based on structure and roadway flooding
- Identify critical PMAs
- Develop future capital project

Impact Fee Implementation

- Service Areas
- Identify Funding Source
- Develop Fees based on Service Area and Growth

Potential Project Types:

Channel Improvements

- Add capacity to existing channels
- Mitigate adjacent flooding
- Improve efficiency of underground pipe systems
- Add new channels to increase overall system capacity

Storm Drain (Pipe) System Improvements

- Upsize/Add trunk lines for major conveyance
- New storm drains for intermediate sized systems
- Increased capacity for street and neighborhood drainage

Regional Detention Ponds

- Typically drain within 24-48 hours
- Mitigate current impacts to existing neighborhoods
- Planned mitigation for future development
- Can be modified for water quality benefits
- Coordinate locations with flight paths

Low Water Crossings/Bridge Replacements

- Improve access to currently developed areas
- Provide access for areas to be developed
- Emergency connectivity

Develop Capital Projects:

Determine Proposed Improvements

- Channel, Pipe Systems, Detention, etc.

Estimate Costs

- Drainage Components
- ROW Acquisition
- Major Utility Coordination

Prepare CIP Summary

- Scope, Cost, Location, & Layout

Potential Mitigation Areas:

Developed Areas

- Apparently inundated structures
  - → 100-year storm, structures at risk at 6” flood depth
  - → 100-year storm, structures at risk at 12” flood depth
  - → 10-year storm, structures at risk at 6” flood depth
  - → **10-year storm, structures at risk at 12” flood depth**
  - → Roadways
  - → No specific metric, manual assessment of flooded roadways
  - → Is conveyance controlled by storm surge?

Undeveloped/Partially Developed Areas

- Potentially flooded structures
  - → 10-year storm, structures at risk at 12” flood depth
- Roadways

- → No specific metric, manual assessment of flooded roadways
- Impacts of Ultimate Development
- Coordination with Tri-County Study

Assumptions-Developed Areas:

Nueces River, CC Bay, Oso Bay Basins, Flour Bluff 1D/2D Modeling

- 1D/2D Modeling
  - → Analyzing capacity of the infrastructure (storm drains and channels)
  - → Analyzing surface water movement when infrastructure overflows
- City-wide analysis
  - → Not an inlet-level model
  - → Modeled all pipes ≥36" diameter
  - → Excluded any pipes <36" diameter

Oso Creek Basin

- 1D/2D Modeling
  - → Analyzing capacity of the infrastructure (storm drains and channels)
  - → Analyzing surface water movement when infrastructure overflows
- Future Development
  - → Assumed ultimate development
  - → Assumed detention throughout watershed
  - → Major Thoroughfare Channels

Funding Sources:

Federal/State Grants and Loans

- American Rescue Plan Act (ARPA)
- Community Development Block Grants (CDBG)
  - → MIT, DR
- Federal Emergency Management Agency (FEMA)
  - → Hazard Mitigation Grant Program (HMGP)
- Texas Water Development Board
  - → Flood Infrastructure Fund (FIF)
  - → Grants and Forgivable Loans
  - → Oso Creek Bottom Rectification
- Texas Department of Transportation (TxDOT)
  - → Yorktown & Ocean Drive Bridges

Bond Programs

- Large projects
- Developed areas and/or growth areas

Storm Water Utility Fee

- Small- to mid-size projects
- Maintenance and operations
  - Developed areas

Impact Fees (If Adopted)

- Must be attributed to growth/new development
- Compare capital project costs to estimated growth within service area
- Impact fees must be used within the service area, based on watershed
- Service areas may be merged as the study progresses

Recommendations-Developed Areas:

Nueces River, CC Bay, Oso Bay Basins, Flour Bluff 1D/2D Modeling

- 35+ Projects Identified
- Funding Sources
  - → Storm Water Utility Fee
  - → Bond Projects
  - → Federal/State Assistance

Oso Creek Basin

- Development Requirements
  - → Mandatory Detention within Oso Creek Basin
  - → Must outfall to a receiving channel/stream
- Create Major Channel Thoroughfare System
  - → ICL & ETJ
- Funding Sources
  - → Bond Projects
  - → Federal/State Assistance
    Storm Water Impact Fees

A breakout session was held.

VII. Director's Report: None.

VIII. Future Agenda Items: None.

IX. Adjournment: There being no further business to discuss, the meeting adjourned at 3:06 pm.