

JAY MARTIN  
CHAIRMAN, COUNCILPERSON

MANDI WILLIAMS  
COUNCILPERSON



CHUCK ENGELKEN  
COUNCILPERSON  
MAYOR PRO TEM  
BILL BENTLEY  
ALTERNATE, COUNCILPERSON

## CITY OF LA PORTE DRAINAGE AND FLOODING COMMITTEE MEETING AGENDA

Notice is hereby given of a meeting of the Drainage and Flooding Committee of the City Council of the City of La Porte, to be held April 10, 2023, in the City Hall Council Chamber, 604 West Fairmont Parkway, La Porte, Texas, beginning at 5:00 p.m. to consider the following items of business.

Remote participation is available, also. Attend via a screen using this link:

<https://us02web.zoom.us/j/84010175458?pwd=ZnpodHo4UFVQQ05Tbi96Q0wrMzFmUT09>

Join by phone at 877-853-5257 or 888-475-4499. The meeting ID is 840 1017 5458. The passcode is 382406.

1. **CALL TO ORDER**
2. **CITIZEN COMMENT** *(Generally limited to five minutes per person; in accordance with state law, the time may be reduced if there is a high number of speakers or other considerations.)*
3. **STATUTORY AGENDA**
  - (a) Presentation, discussion, and possible action to approve the minutes of the Drainage and Flooding Committee regular meeting held on March 13, 2023. [Councilperson Jay Martin, Chair]
  - (b) Presentation, discussion, and possible action regarding status of 100-acre-foot detention pond project near the Pasadena Convention Center and Brookglen Subdivision, as established in amended interlocal agreement between the City of La Porte and the City of Pasadena. [Lorenzo Wingate, Assistant Director of Public Works]
  - (c) Presentation, discussion, and possible action regarding the Harris County Flood Control District's (HCFCD) and Harris County Precinct 2's current and future plans related to flooding in the City of La Porte. [Lorenzo Wingate, Assistant Director of Public Works]
  - (d) Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, Assistant Director of Public Works]
  - (e) Presentation, discussion, and possible action to provide administrative staff of the City with direction, if necessary, regarding additional drainage concerns. [Lorenzo Wingate, Assistant Director of Public Works]
4. **SET NEXT MEETING**

5. **COMMITTEE COMMENT** *Hear announcements concerning matters appearing on the agenda; items of community interest; and/or inquiries of staff regarding specific factual information or existing policy from the Committee members and City staff, for which no formal action will be discussed or taken.*

6. **ADJOURN**

If, during the course of the meeting and discussion of any items covered by this notice, the Drainage and Flooding Committee determines that a Closed or Executive Session of the Committee is required, then such closed meeting will be held as authorized by Texas Government Code, Chapter 551, Section 551.071 - consultation with counsel on legal matters; Section 551.072 - deliberation regarding purchase, exchange, lease or value of real property; Section 551.073 - deliberation regarding a prospective gift; Section 551.074 - personnel matters regarding the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; Section 551.076 - implementation of security personnel or devices; Section 551.087 - deliberation regarding economic development negotiation; Section 551.089 - deliberation regarding security devices or security audits, and/or other matters as authorized under the Texas Government Code. If a Closed or Executive Session is held in accordance with the Texas Government Code as set out above, the Drainage and Flooding Committee will reconvene in Open Session in order to take action, if necessary, on the items addressed during Executive Session.

**Persons with disabilities who plan to attend this meeting and who may need auxiliary aids or services are requested to contact the City Secretary's office (281-470-5019), two working days prior to the meeting for appropriate arrangements.**

Pursuant to Texas Government Code Sec. 551.127, on a regular, non-emergency basis, members may attend and participate in the meeting remotely by video conference. Should that occur, a quorum of the members will be physically present at the location noted above on this agenda.

**Councilmembers may attend in numbers constituting a quorum. This is a Drainage and Flooding Committee Meeting at which there will be no deliberation or formal action taken by City Council as a governmental body.**

**CERTIFICATE**

I, Lee Woodward, City Secretary, do hereby certify that a copy of the April 10, 2023, Drainage and Flooding Committee agenda was posted on the City Hall bulletin board, a place convenient and readily accessible to the general public at all times, and to the City's website, [www.LaPorteTX.gov](http://www.LaPorteTX.gov), in compliance with Chapter 551, Texas Government Code.

DATE OF

POSTING

TIME OF

POSTING

TAKEN DOWN

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*Lee Woodward*

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Lee Woodward, City Secretary

JAY MARTIN, CHAIRMAN  
COUNCILPERSON

MANDI WILLIAMS  
COUNCILPERSON



CHUCK ENGELKEN  
MAYOR PRO TEM

BILL BENTLEY, ALTERNATE  
COUNCILPERSON

## **MINUTES OF THE DRAINAGE AND FLOODING COMMITTEE MEETING MARCH 13, 2023**

The Drainage and Flooding Committee of the City of La Porte met on Monday, March 13, 2023, at the City Hall Council Chambers, 604 West Fairmont Parkway, La Porte, Texas, at 5:00 p.m. to consider the following items of business:

**Committee Members present:** Chuck Engelken, Jay Martin, Mandi Williams

**Committee Members attending remotely:** None

**Committee Members absent:** Bill Bentley (alternate)

**Council-appointed officers present:** Corby Alexander, City Manager; Lee Woodward, City Secretary; Clark T. Askins, Asst. City Attorney

**CALL TO ORDER** – Chair Martin called the meeting to order at 5:01 p.m.

- 2. CITIZEN COMMENT** *(Generally limited to five minutes per person, in accordance with state law, the time may be reduced if there is a high number of speakers or other considerations.)*

There were no comments.

### **3. STATUTORY AGENDA**

- a. Presentation, discussion, and possible action to approve the minutes of the Drainage and Flooding Committee regular meeting held on February 13, 2023. [Councilperson Jay Martin, Chair]**

Member Engelken moved to approve the minutes; the motion was seconded by Member Williams; the motion was adopted, 3-0.

- b. Presentation, discussion, and possible action regarding proposed phased drainage improvements within the Brooklen subdivision. [Lorenzo Wingate, Assistant Director of Public Works]**

Andrew Moore of Half Associates, Inc. provided an update on their study of improvements needed to reduce flooding in and around Brookglen.

- c. Presentation, discussion, and possible action regarding status of 100-acre-foot detention pond project near the Pasadena Convention Center and Brookglen Subdivision, as established in amended interlocal agreement between the City of La Porte and the City of Pasadena. [Lorenzo Wingate, Assistant Director of Public Works]**

Mr. Wingate provided a timeline mapping and letter of explanation concerning the project's progress. Chair Martin requested a status update on the decision from the U.S. Army Corps of Engineers, as its 120-day window expected for a response has expired.

- d. Presentation, discussion, and possible action regarding the Harris County Flood Control District's (HCFCD) and Harris County Precinct 2's current and future plans**

**related to flooding in the City of La Porte. [Lorenzo Wingate, Assistant Director of Public Works]**

Mr. Wingate noted there have been biweekly meetings and he expects a draft of the engineering report shortly.

**e. Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, Assistant Director of Public Works]**

Mr. Wingate said solicitation documents for Bayside Terrace were expected to go out by the end of the month. On project 5, he said this was waiting on a determination letter from the U.S. Army Corps of Engineers. Mr. Wingate noted that Project 6 had been added to the project for 7<sup>th</sup> Street and has been completed. He said Copeland was tied to the Lomax Lift Station and he did not have a report yet.

**f. Presentation, discussion, and possible action to provide administrative staff of the City with direction, if necessary, regarding additional drainage concerns. [Lorenzo Wingate, Assistant Director of Public Works]**

Member Williams noted there were some drainage issues in Lomax due to runoff from some properties onto others. She and Mr. Wingate confirmed these were private property issues but that the City had been assisting where it could. Member Engelken thanked the City Manager and Public Works for cleaning up the trash on the lots bought out by the Harris County Flood Control District (HCFCD) and asked that citations be issued for each of the lots for high grass and weeds. Mr. Alexander confirmed the staff would proceed. Chair Martin expressed a desire for a better relationship with HCFCD and suggested a special meeting with them.

**4. SET NEXT MEETING**

The next meeting was set for April 10, 2023.

**5. COMMITTEE COMMENT** – *Hear announcements concerning matters appearing on the agenda; items of community interest; and/or inquiries of staff regarding specific factual information or existing policy from the Committee members and City staff, for which no formal action will be discussed or taken.*

There were no comments.

**ADJOURN** – The meeting was adjourned without objection at 5:50 p.m.

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Lee Woodward, City Secretary

JAY MARTIN, CHAIRMAN  
COUNCILPERSON

MANDI WILLIAMS  
COUNCILPERSON



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**5. COMMITTEE COMMENT** – *Hear announcements concerning matters appearing on the agenda; items of community interest; and/or inquiries of staff regarding specific factual information or existing policy from the Committee members and City staff, for which no formal action will be discussed or taken.*

There were no comments.

**ADJOURN** – The meeting was adjourned without objection at 5:50 p.m.

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Lee Woodward, City Secretary



## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: April 10, 2023

Requested By: Lorenzo Wingate, Asst. Director

Department: Public Works

☒ Report ☐ Resolution ☐ Ordinance

**Exhibits:**

### Appropriation

Source of Funds: N/A

Account Number: N/A

Amount Budgeted: N/A

Amount Requested: N/A

Budgeted Item: ☐ Yes ☐ No

### SUMMARY & RECOMMENDATION

The City of Pasadena prepared a wetlands delineation report and submitted it to the USACE as part of an Approved Jurisdictional Determination (AJD) request on October 5, 2022. The USACE's response was expected within 120 days. However, during a December 2022 on-site wetlands inspection, the USACE observed an apparent unauthorized wetlands disturbance, and directed the City of Pasadena staff to mitigate the disturbance. As a result, the USACE suspended progress on the ADJ until the mitigation efforts were completed by Pasadena. Pasadena confirmed that all mitigation efforts were completed in mid-March 2023, and Pasadena expected to submit formal documentation to the USACE by the end of March 2023. Having completed the mitigation efforts, the AJD is expected by the end of April 2023. The drainage impact analysis was submitted to HCFCD in October 2022 and was approved by HCFCD in February 2023. Further project efforts are on hold, pending the USACE determination.

### ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

**Receive report, and provide staff with direction, as necessary.**

**Approved for Drainage Committee Agenda**

\_\_\_\_\_  
Corby D. Alexander, City Manager

\_\_\_\_\_  
Date



## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: April 10, 2023

Requested By: Lorenzo Wingate, Asst. Director

Department: Public Works

☒ Report    ☐ Resolution    ☐ Ordinance

**Exhibits:**

### Appropriation

Source of Funds: N/A

Account Number: N/A

Amount Budgeted: N/A

Amount Requested: N/A

Budgeted Item:    ☐ Yes    ☐ No

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### SUMMARY & RECOMMENDATION

Receive report regarding Harris County Flood Control District's (HCFCD) and Harris County Precinct 2's current and future plans related to flooding in the City of La Porte.

Current HCFCD leadership (Executive Director, Chief Operations Officer, and Deputy Director of Engineering and Construction) have been invited to the May meeting to be introduced to the Drainage Committee. Staff awaits confirmation of HCFCD's participation in the May meeting.

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### ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

**Receive report, and provide Staff with direction, as necessary.**

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**Approved for Drainage Committee Agenda**

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**Corby D. Alexander, City Manager**

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**Date**





## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: April 10, 2023

Requested By: Lorenzo Wingate, Asst. Director

Department: Public Works

☒ Report    ☐ Resolution    ☐ Ordinance

**Exhibits:** Project map; Project update chart and Harris County Drainage Network Map

### Appropriation

Source of Funds: N/A

Account Number: N/A

Amount Budgeted: N/A

Amount Requested: N/A

Budgeted Item:    ☐ Yes    ☐ No

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### SUMMARY & RECOMMENDATION

Refer to attached exhibit(s) for updates on various drainage projects throughout the City.

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### ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

**Receive report, and provide staff with direction, as necessary.**

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**Approved for Drainage Committee Agenda**

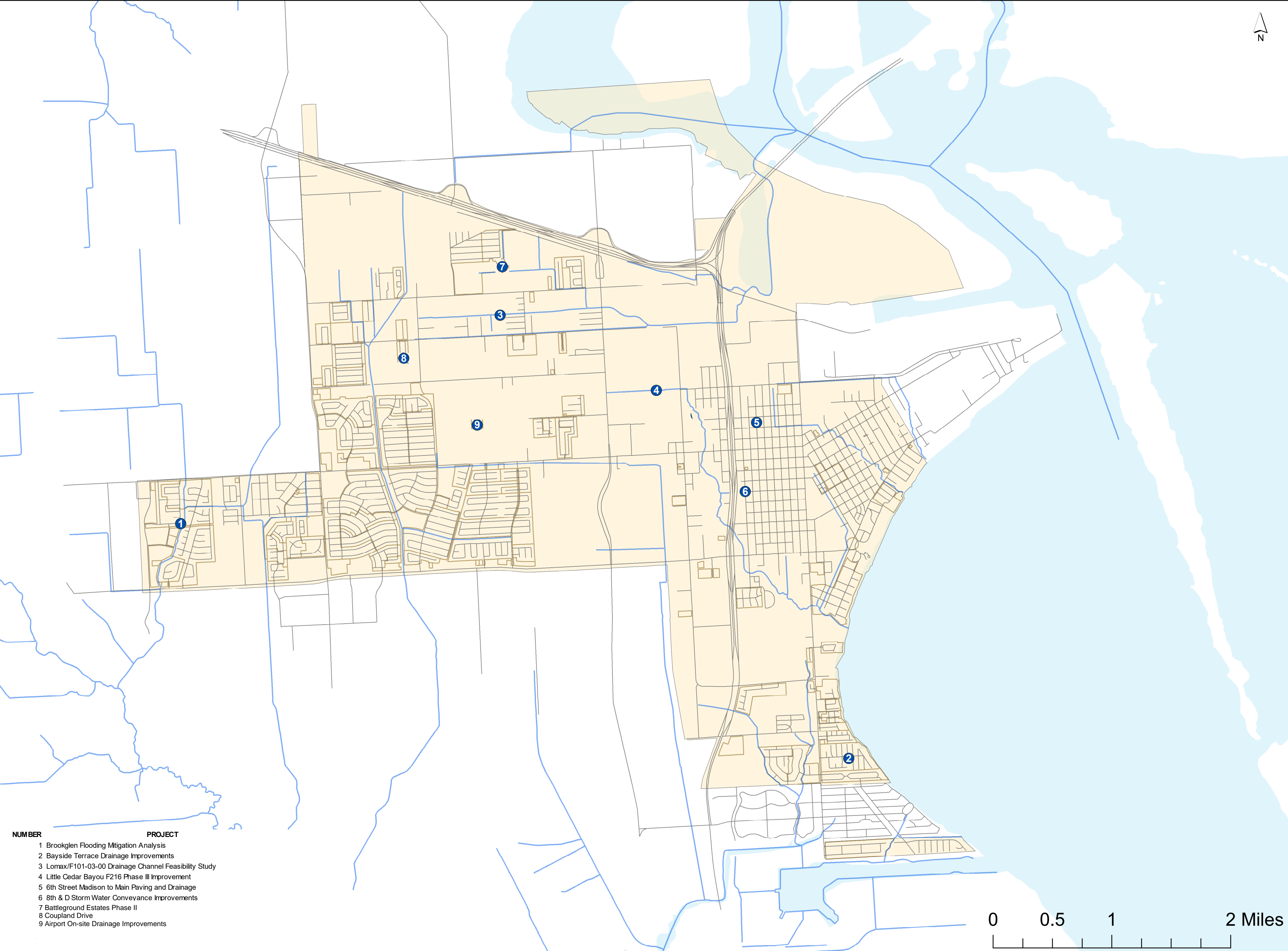
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**Corby D. Alexander, City Manager**

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**Date**

# The City of La Porte Drainage Projects 2019



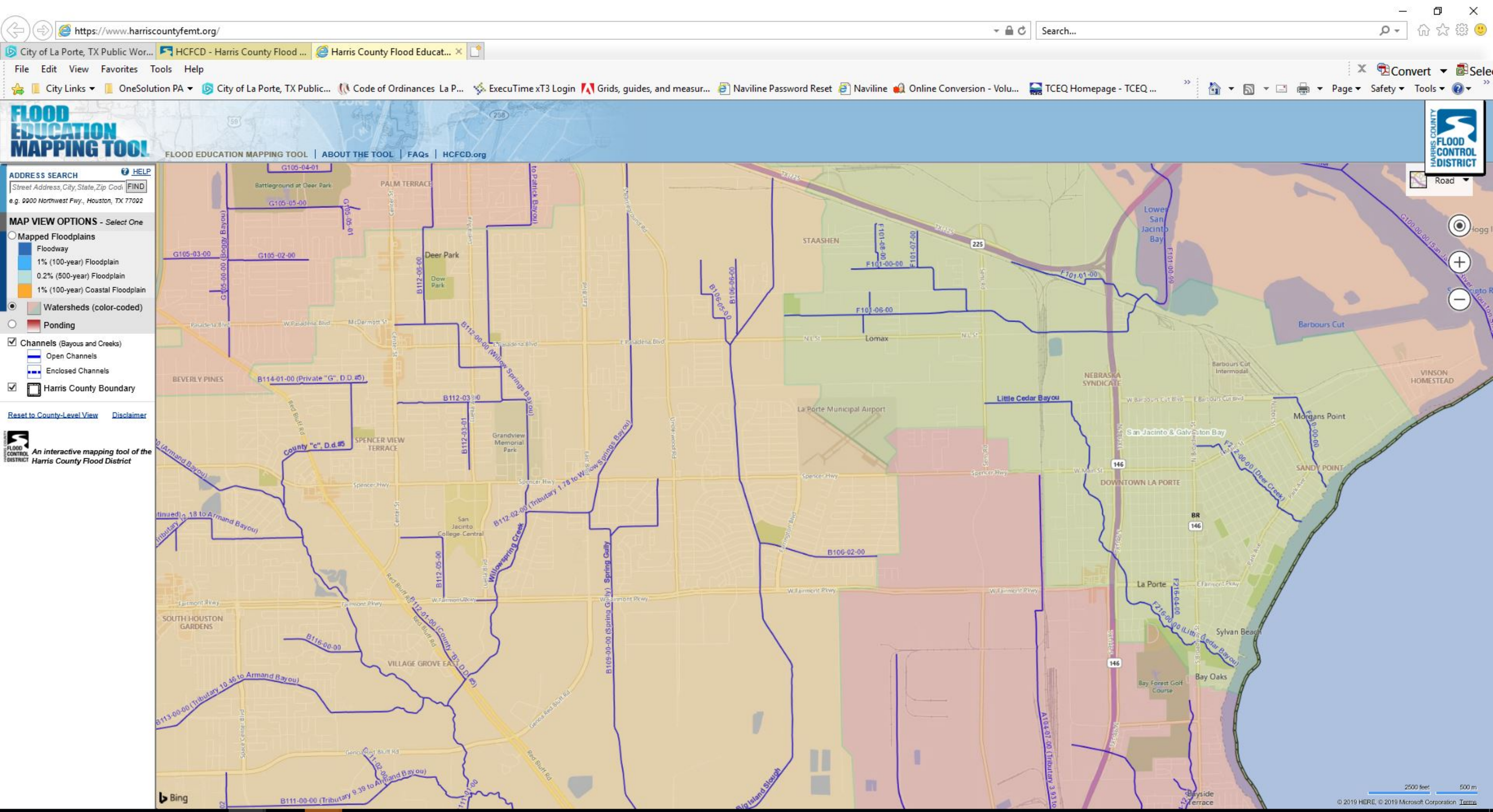
# DRAINAGE PROJECTS

\*Estimated completion date references total project completion.

\*\*% complete references percent completion of current project phase.

NO.	PROJECT	PROJECT MANAGER	DESCRIPTION	PROJECT PHASE (Feasibility/Preliminary Design/Final Design/Bidding/Construction)	Status	Anticipated Construction Cost	Potential Grant Funding	Potential COLP Cost Share	COLP Budgeted Amount	Estimated Completion Date	% Complete (Phase)	On Schedule
1	Brook glen Flooding Mitigation Analysis	HCFCF / Public Works	The 2000 City-wide Drainage Study identifies the Brook glen subdivision as an area with significant drainage problems, attributed to a combination of inadequate sewerage and insufficient channel capacity within the B112-00-00 Channel. Compounded improvements recommended within the City-wide Drainage Study could reduce the flood risk within the Brook glen area. This analysis would expand upon the recommendations provided within 2009 study.	HCFCF (NCRS) - Final Design; COLP - Feasibility/Preliminary Engineering	The existing conditions drainage model is being developed utilizing field data and record drawings. preliminary modeling results indicate that the existing storm sewer is undersized for current rainfall conditions. Modeling continues through next month, while survey data is being obtained. Final design is expected to begin upon completion of preliminary engineering, with a target construction start date of March 4, 2024. The project is expected to be completed by June 30, 2025.	\$11,400,010.00	GLO - \$4,000,000; Pct. 2 Partnership - \$2,900,023.28; ARPA - TBD;	Harris County - 24%; GLO - 33%; COLP - 42;	COLP - \$4,275,000	NCRS - TBD; Bond - TBD; COLP - TBD	NCRS - 35%; COLP - 0%	NCRS - Yes Bond - No COLP - TBD
2	Bayside Terrace Drainage Improvements	Public Works	Approximately 800 linear feet of RCP pipe, ranging in size from 15" to 24", exists within the Bayside Terrace Subdivision, which has not been properly maintained due to access issues attributed to limited access to infrastructure, provided within a five foot utility easement. Portions of Hamilton Street and Fondren Street utilize this system to convey stormwater to its outfall point of Galveston Bay. The system fails to function properly, causing flooding within the adjacent portion(s) of the subdivision. A proposed drainage study would discuss feasibility of rerouting this flows from the 800 feet of RCP, towards Bayside Dr. and utilizing the existing system within Bayside Dr. to convey the storm water within the existing system.	Bidding	The grant administrator reviewed the solicitation package through the end of March 2023, altering the expected project solicitation date to April 6, 2023. The project is expected to be awarded in I May 2023, with construction expected to begin by late-June 2023.	\$8,821,834.36	Pct. 2 Partnership - \$2,982,496	Harris County - \$2,982,496; COLP - \$4,356,041	\$5,405,000.00	TBD	50%	No
3	Lomax/F101-03-00 Drainage Channel Improvements	HCFCF	Harris County Flood Control District's (HCFCF) F101-06-00 Channel system conveys storm water runoff from the Lomax area and ultimately outfalls into Lower San Jacinto Bay. The downstream section of the channel has been improved to ultimate capacity. An existing pipeline corridor, containing several pipelines located at depths ranging from approximately 2' to 18', cross the channel, limiting the depth of potential channel improvements. Moderate/heavy rain events, compounded with backwater conditions from this section of the channel, contributes to wide-spread flooding within the Lomax Area.	Feasibility	HCFCF extended the limits of the initial drainage study to include the area from Valleyview to Lomax School Road. New project limits are currently being evaluated by HCFCF to determine additional project options.	\$3,400,000.00	HCFCF Bond; ARPA - TBD	50/50	\$950,000.00	TBD	75%	No
4	Little Cedar Bayou F216 Phase III Improvements	HCFCF / Public Works	Phase I and Phase II Improvements to Little Cedar Bayou, from Hwy 146 to Madison, have either been completed or are currently awarded for construction. Phase I and Phase II improvements include, but are not limited to, excavating and disposing off-site soil as required for the new channel alignment, clearing and grubbing, demolition of existing structures, erosion control, and site restoration for approximately 5,533 LF of channel. Approximately 4,680 LF of channel remains unimproved upstream, with those improvements slated to be included within this project, to be considered Phase III. Survey data has been collected on this most upstream section. Routine maintenance of clearing overgrowth, trees, and obstructions; minor erosion control and slope stabilization; and destilling is planned to maintain existing conveyance capacity. Those maintenance operations are projected to begin late 4th quarter 2018 or early 1st quarter 2019 (calendar year). The following Phase III mitigation action is proposed, as recommended within the Hydraulic Analysis for Little Cedar Bayou Watershed HCFCF Unit F216-00-00: lowering the low line of the Bayou 1' - 2' feet, from W. Madison to Sens Rd. Current channel side slopes would be modified to achieve 3:1 side slopes from W Madison St. to Sens Rd. An estimated 200,000 cubic yards are to be excavated from the channel. Over excavation is provided to yield sufficient storage volume in the pond after siltation and build-up in the pond bottom.	Feasibility	The feasibility of several project options are being evaluated. The consultant is evaluating an additional project alternative that was not previously considered. The draft of the preliminary engineering report will be delayed, to allow for the new alternative to be evaluated. Staff, consultant, and HCFCF, participate in bi-weekly project status meeting to discuss project progression.	TBD	HCFCF Bond - \$8,000,000; ARPA - TBD	\$2,000,000.00	\$3,055,232.00	TBD	60%	No
5	6th Street Madison to Main Paving and Drainage	Public Works	The segment of 6th St from W. Madison St to W. Main St is considered part of Old La Porte, which was generally noted in the City-Wide Drainage Study as not having sufficient storm sewer capacity due to undersized storm sewer, undersized storm inlets, or not enough storm inlets. RPS-Klotz provided an analysis of the existing storm sewer system and identified problem areas within the project limits. Additional analysis is required to determine most efficient improvement alternative.	Phase 2 - Final Design	Drainage Impact Analysis has been approved by HCFCF. Staff is coordinating with HCFCF for mitigation credits. USACE has acknowledged receipt of pre-construction notice. The project solicitation packet has been prepared, but the advertisement is on hold, pending USACE approval.	Phase 2 - \$3,400,000	Phase 2 - \$3,472,757	\$125,000.00	\$1,140,000.00	Phase 2 - TBD	Phase 2 - 90%	Phase 2 - Yes
6	8th & D Storm-Water Conveyance Improvements	Public Works	The area generally bounded by 8th Street to the west, Main Street to the north, 5th Street to the east, and D Street to the south experiences flooding during heavy rain events due to undersized culverts within the area increasing culvert sizes within the area will provide additional conveyance capacity within the existing open ditch system.	Completed	This project has been incorporated into the 8th Street Rehabilitation Project. Construction activity began on September 13, 2021. Storm sewer-related infrastructure is 100% complete.	\$4,800,000.00	N/A	N/A	\$4,867,000.00	February 2023	100%	Yes
7	Battleground Estates Phase II	Public Works	A proposed conditions hydraulic model was developed during the preliminary design for the N P Street Culvert Improvement Project, which recommended replacing the upstream portion of the existing composite structure at N P Street, with structures matching the downstream portion of the composite structure. That project allows for full utilization of the structure's capacity, as well as protect the channel during rainfall events that produce higher amounts of runoff. Per the recommendations of the Phase I report, a more detailed Phase 2 engineering analysis of segments F101-00-00 and F101-08-00, that are upstream of N P Street, as well as an evaluation of the roadside ditch drainage conduits within Battleground Estates should be performed to identify necessary improvements to address structural flooding within the area. The more detailed study would evaluate the impacts of culverts located upstream of N P Street, along F101-00-00 resulting from the 10-, 50-, and 100-year rain event. Channel improvements, and increasing culvert sizes to provide sufficient capacity within culverts along the roadside ditches are the anticipated mitigation efforts.	Feasibility	Staff is re-considering utilization of ARPA funding on this project, as ARPA funding may be reallocated to higher priority projects.	TBD	ARPA - TBD	50/50	\$215,000.00	August 2023	0%	No
8	Coupland Drive	Public Works	The proposed storm sewer improvements include re-aligning Coupland Drive to drain towards inlets located throughout the subdivision. The inlets will drain into proposed storm sewer ranging in size from 24" to 30" RCP. This storm sewer will then flow underneath the existing roadside ditch along L Street to a combined outfall with the existing roadside ditch to Big Island Slough. The proposed storm sewer underneath the existing ditch on L Street will be 42" RCP and the combined outfall will need to be a 60" RCP. These improvements will result in no net fill within the Big Island Slough 100-year floodplain. The proposed storm sewer was sized for the 2 year storm event, per the City of La Porte drainage criteria.	Bidding	The bid solicitation advertised on September 15th, as part of the Lomax Lift Station Consolidation Project. Bid were received in December 2023, but exceeded the budgeted amount. The bid was reject by Council at the January 9th meeting. Staff is working with the Texas Water Development Board (TXWDB) to determine the most appropriate approach to proceed with the Lomax Lift Station Consolidation Project. Future advertisement of the Coupland Drive project will be contingent upon direction received from the TXWDB.	\$1,550,000.00	N/A	N/A	\$1,310,000.00	TBD	50%	Yes







## REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: April 10, 2023

Requested By: Lorenzo Wingate, Asst. Director

Department: Public Works

☒ Report    ☐ Resolution    ☐ Ordinance

### Appropriation

Source of Funds: N/A

Account Number: N/A

Amount Budgeted: N/A

Amount Requested: N/A

Budgeted Item:    ☐ Yes    ☐ No

Exhibits:

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### SUMMARY & RECOMMENDATION

Opportunity to discuss any drainage concerns not covered by previous items.

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### ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

Receive report, and provide staff with direction, as necessary.

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Approved for Drainage Committee Agenda

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Corby D. Alexander, City Manager

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Date