



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 June 14, 2021, in the City Hall Council Chamber, 604 West Fairmont Parkway, La Porte, Texas, beginning at 5:00 pm to consider the following items of business.

Social distancing protocols will be in effect in the Council Chambers.

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

<https://us02web.zoom.us/j/85727829164?pwd=S3k0NTdRRlE0QVJnc0hzZ3hTa2piQT09>

Join by phone at 877 853 5257 or 888 475 4499. The meeting ID is 857 2782 9164. The passcode is 220539.

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 May 10, 2021 meeting. [Chairman Martin]
 - (b) Presentation, discussion, and possible action regarding an interlocal agreement between the City of La Porte and the City of Pasadena related to land within the ETJ of the respective cities. [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 staff 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 June 14, 2021, 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, in compliance with Chapter 551, Texas Government Code.

DATE OF

POSTING _____

TIME OF

POSTING _____

TAKEN DOWN _____

Lee Woodward

Lee Woodward, City Secretary

JAY MARTIN
CHAIRMAN

TREY KENDRICK
MEMBER



CHUCK ENGELKEN
MEMBER

BILL BENTLEY
ALTERNATE

MINUTES OF THE DRAINAGE AND FLOODING COMMITTEE MEETING MAY 10, 2021

The Drainage and Flooding Committee of the City of La Porte met on Monday, May 10, 2021, 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: Jay Martin, Chuck Engelken

Committee Members attending remotely: None

Committee Members absent: Trey. Kendrick, Bill Bentley

Council-appointed officers present: Corby Alexander, City Manager, Lee Woodward, City Secretary; Clark T. Askins, Assistant City Manager attended remotely

CALL TO ORDER – Chairman Martin called the meeting to order at 5:00 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 citizen comments.

3. STATUTORY AGENDA

- a. Presentation, discussion, and possible action to approve the minutes of the April 12, 2021, meeting. [Chairman Martin]**

Member Engelken moved to approve the minutes; Chair Martin seconded the motion; the motion was adopted, 2-0.

- b. Presentation, discussion, and possible action regarding Harris County's recommended minimum drainage and floodplain standards. [Lorenzo Wingate, Assistant Director of Public Works]**

Lorenzo Wingate, Assistant Public Works Director, introduced Candyce Ward, Principal, Cobb, Fendley, to provide a presentation on their evaluation of the new Harris County Flood Control District (HCFCD) floodplain regulations. Chair Martin recommended the report go to the full Council for further discussion.

- c. Presentation, discussion, and possible action regarding an interlocal agreement between the City of La Porte and the City of Pasadena related to land within the ETJ of the respective cities. [Lorenzo Wingate, Assistant Director of Public Works]**

Lorenzo Wingate, Assistant Public Works Director, provided an update since the inter-local agreement was approved, noting the RFQ was advertised and responses were due May 18.

- 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]**

Lorenzo Wingate, Assistant Public Works Director, permitted Jeremy Ratliff, HCFCD, to provide an update on Brookglen, that the PER would be on the Commissioners Court tomorrow. He announced two CDBG studies were bringing forward additional projects. Member Engelken requested the mowing schedule be reviewed for overgrown lots at Brookglen.

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

Mr. Wingate reminded the partnership projects with Harris County could be contingent on adoption of the new floodplain regulations. He said the City will meet with HCFCD on Wednesday to get ahead on channel projects. Several projects, he noted, would be initiated using top respondents from the RFQ, due May 18th.

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

Lorenzo Wingate, Assistant Public Works Director, said there were no additional projects.

4. Set next meeting - The next meeting date was set for June 14, 2021.

5. Committee Member Comments – There were no comments.

ADJOURN – The meeting was adjourned without objection at 5:36 p.m.

Lee Woodward, City Secretary



REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: June 14, 2021
Requested By: Lorenzo Wingate, Asst. Director
Department: Public Works
☒ Report ☐ Resolution ☐ Ordinance

Exhibits:

| Appropriation | |
|-------------------|--|
| Source of Funds: | <u>N/A</u> |
| Account Number: | <u>N/A</u> |
| Amount Budgeted: | <u>N/A</u> |
| Amount Requested: | <u>N/A</u> |
| Budgeted Item: | <input type="radio"/> Yes <input type="radio"/> No |

SUMMARY & RECOMMENDATION

City of La Porte staff and City of Pasadena coordinated to renegotiate terms of the inter-local agreement related to Ordinance No. 2012-3421, for detention capacity located near the Pasadena Convention Center. The proposed amendments have been approved by both Councils. Staff is currently reviewing responses to a solicitation for engineering services and intends to negotiate with a consultant, identified from the solicitation, to begin preliminary engineering.

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



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☒ Report ☐ Resolution ☐ Ordinance

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| Amount Requested: | <u>N/A</u> |
| Budgeted Item: | <input type="radio"/> Yes <input type="radio"/> No |

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.

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: June 14, 2021
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: | <u>N/A</u> |
| Account Number: | <u>N/A</u> |
| Amount Budgeted: | <u>N/A</u> |
| Amount Requested: | <u>N/A</u> |
| Budgeted Item: | <input type="radio"/> Yes <input type="radio"/> No |

SUMMARY & RECOMMENDATION

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

ACTION REQUIRED BY DRAINAGE AND FLOODING COMMITTEE

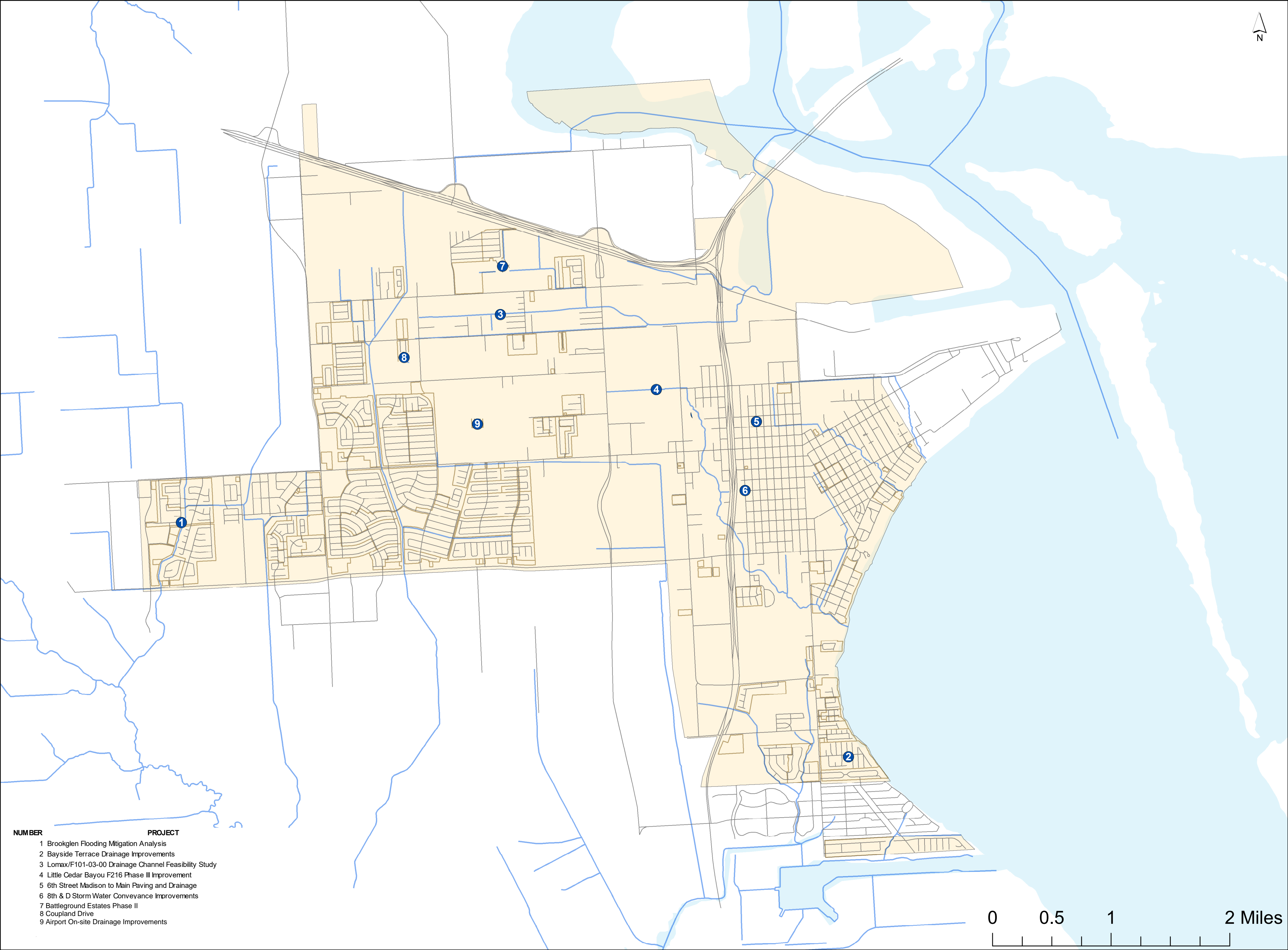
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Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

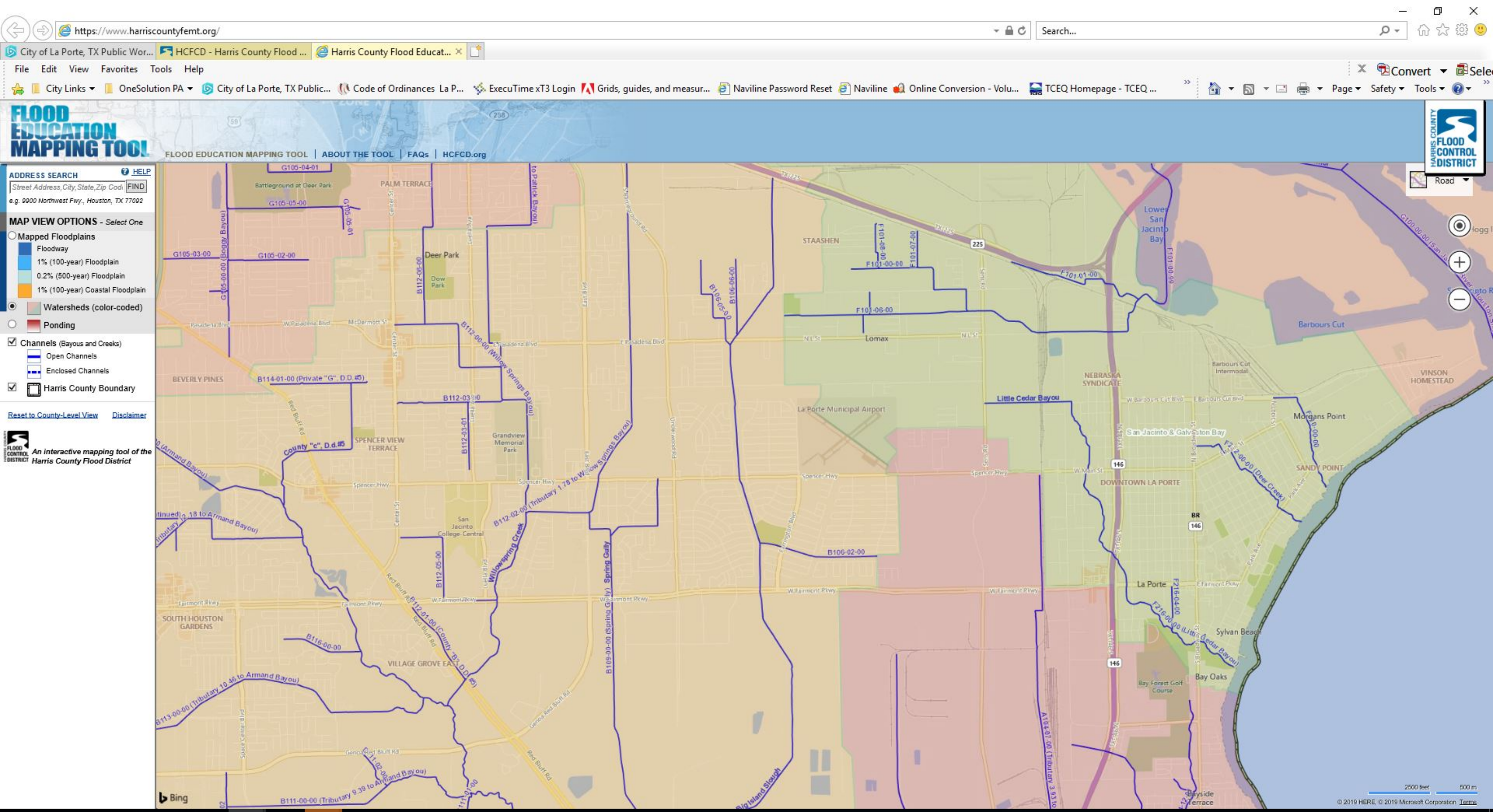
The City of La Porte Drainage Projects 2019



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 | Brookglen Flooding Mitigation Analysis | HCFCF / Public Works | The 2009 City-wide Drainage Study identifies the Brookglen subdivision as an area with significant drainage/flooding problems, attributed to a mixture 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 Brookglen area. This analysis would expand upon the recommendations provided within 2009 study. | HCFCF (NCRS) - Preliminary Design; HCFCF (Bond) - Feasibility; COLP - Pending | Staff is working with Grant Administrator to prepare an application for GLO-Supplemental grant program, which the COLP was invited to apply for. Staff and Grant Administrator are working with GLO to prepare the application. Staff is also submitted partnership project application to Precinct 2 for additional funding. Staff to discuss potential grant requirements with Harris County on June 16th. | NCRS - No COLP cost; Bond - TBD; COLP - TDB | NCRS - N/A; Bond - N/A; COLP - TDB | NCRS - N/A; Bond - TBD; COLP N/A | NCRS - N/A; Bond - TBD; COLP - \$2,500,000 | NCRS - March 2022; Bond - TBD; COLP - TDB | NCRS - 10%; Bond - 85%; COLP - 0% | NCRS - Yes No Bond - 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 Terrance 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. | Final Design | At the January 25th, 2021 Council Meeting, Council authorized staff to move forward with the consultant's recommendation of option 2, without a flap valve on the outfall. Consultant has provided 60% construction plans for staff review. Staff' also submitted partnership project application to Precinct 2 for additional funding. Staff to discuss potential grant requirements with Harris County on June 16th. | \$6,600,000.00 | N/A | N/A | \$2,650,000.00 | March 2022 | 60% | Yes |
| 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. | Final Design | PER was finalized in and presented to Harris County Commissioners' in late May. Final design has been initiated. | \$3,400,000.00 | N/A | 50/50 | \$950,000.00 | January 2023 | 0% | Yes |
| 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 desilting 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 flow 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 | Professional services contract approved at the December 14, 2020 council meeting. Staff is working to execute the contract. Notice to proceed is expected to be issued by mid-January 2021. HCFCF is expected to present an ILA to Commissioner's Court in January 2021 for the 50/50 cost share of the F216 scope of work. Drainage report is expected to be completed October 2021. Consultant is developing preliminary conditions model. | TBD | N/A | N/A | \$1,555,232.00 | March 2023 | 15% | Yes |
| 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 1 - Construction; Phase 2 - Final Design | Executed contract with GLO effective March 9, 2019 through August 5, 2021. Staff received executed agreement with Harris County for \$3.4M allocation in early January. Phase I was awarded Tandem Services. Purchasing working on executing contract documents. Staff reviewed 30% plans for Phase 2 and returned comments to consultant in late May. | Phase 1 - \$325,000; Phase 2 - \$3,400,000 | Phase 1 - \$325,775.30; Phase 2 - \$3,472,757 | \$125,000.00 | \$1,140,000.00 | Phase 1 - August 2021; Phase 2 - August 2022 | Phase 1 - 0%; Phase 2 - 30% | Phase 1 - Yes 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. | Bidding | This project has been incorporated into the 7th Street Rehabilitation Project. Project is currently advertised for bidding, with bids scheduled to open on June 29th. | \$4,800,000.00 | N/A | N/A | \$4,867,000.00 | January 2022 | 25% | 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 1 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 F-101-00-00 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 currently reviewing responses to RFQ. | TBD | N/A | 50/50 | \$65,000.00 | August 2023 | 0% | No |
| 8 | Coupland Drive | Public Works | The proposed storm sewer improvements include re-sloping 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 5 year storm event, per the City of La Porte drainage criteria. | Final Design | Harris County has required the design to be updated to include Atlas 14 rainfall intensity. Design update expected complete. Bid phase to be integrated into Lomax Lift Station Project. | \$1,550,000.00 | N/A | N/A | \$1,310,000.00 | November 2022 | 100% | Yes |





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☒ Report ☐ Resolution ☐ Ordinance

Exhibits:

| Appropriation | |
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| Account Number: | <u>N/A</u> |
| Amount Budgeted: | <u>N/A</u> |
| Amount Requested: | <u>N/A</u> |
| Budgeted Item: | <input type="radio"/> Yes <input type="radio"/> No |

SUMMARY & RECOMMENDATION

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

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