

JAY MARTIN
CHAIRMAN
DANNY EARP
VICE-CHAIRMAN



CHUCK ENGELKEN
MEMBER
VACANT
ALTERNATE

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 10, 2019, in the City Hall Council Chambers, 604 West Fairmont Parkway, La Porte, Texas, beginning at 5:00 pm to consider the following items of business.

1. **Call to order**
2. **Authorizations**
 - (a) Approve the minutes of the meeting held on May 13, 2019. [Lee Woodward, City Secretary]
3. **Staff Reports**
 - (a) Receive a report from the Harris County Flood Control District (HCFCD) regarding current and future plans relating to flooding in the City of La Porte. [Lorenzo Wingate, P.E., City Engineer; Don Pennell, Public Works Director]
 - (b) Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, P.E., City Engineer; Don Pennell, Public Works Director]
 - (c) Presentation, discussion, and possible action regarding additional drainage concerns and providing staff with direction. [Lorenzo Wingate, P.E., City Engineer; Don Pennell, Public Works Director]
4. **Set date for next Drainage and Flooding Committee Meeting**
5. **Committee Member Comments** *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. **Adjournment**

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.

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 10, 2019, 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, City Secretary

JAY MARTIN
Chairman

DANNY EARP
Vice-Chairman



CHUCK ENGELKEN
Member

JOHN ZEMANEK
Alternate Member

MINUTES OF DRAINAGE AND FLOODING COMMITTEE MEETING HELD MAY 13, 2019

The Drainage and Flooding Committee of the City of La Porte met on **Monday, May 13, 2019**, 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, Danny Earp, Chuck Engelken (*arrived at 5:32 p.m.*)

Committee Members absent: John Zemanek

Council-appointed officers present: Corby Alexander, City Manager; Lee Woodward, City Secretary

1. **Call to Order** - Chairman Martin called the meeting to order at 5:02 p.m.

2. **Authorizations**

(a) Approve the minutes of the meeting held on April 8, 2019. [Lee Woodward, City Secretary]

Vice Chairman Earp moved to approve the minutes of the meeting held on April 8, 2019; the motion was unanimously adopted, 2-0.

3. **Staff Reports**

(a) **Receive report from Harris County Flood Control District regarding current and future plans relating to flooding in the City of La Porte.** [Lorenzo Wingate, City Engineer, and Don Pennell, Public Works Director]

Jeremy Ratcliff of Harris County Flood Control District (HCFCD) said he hoped he could attend the first meeting of the month every other month. He said that on Brookglen, three alternatives were proposed in draft and needed some additional modeling and move to a PER stage this summer and added that Russ Poppe was including a benefits matrix for all their projects. Committee member Earp asked to also note timing of the entire project life cycle.

Mr. Ratcliff said that F-10106 (Lomax/Pipeline Corridor) would begin this summer. Vice Chairman Earp said two projects in that area needed a greatly increased timetable, especially at the dam at the pipeline. Mr. Wingate reminded all that City spending was holding for state grant funding, but Mr. Ratcliff said it would not hold up the HCFCD work. Mr. Ratcliff said the desilt would probably happen early this summer (as part of the Choctaw Package) but there were utility and other conflicts for the portion across the top and that HDR would review it. Mr. Pennell said the City had done the flow work and were waiting on HCFCD for design.

Vice Chairman Earp said the work at Sens Road to the railroad tracks was coming along. Mr. Ratcliff said it was possible HCFCD would need some assistance with the railroad. Mr. Wingate noted Flood Control did not have easements or legal access to but the City did and could clear and clean there. Mr. Pennell said his department would propose to buy new equipment and take care of it in house.

Chairman Martin asked about the Brookglen buyout situation and Mr. Ratcliff said there were two-three homes with offers and six waiting on appraisals. Mr. Ratcliff said the summer mowing agreement would be reviewed for lots and channel work cycles and were expected to begin in June (HCFCD, HC Precinct 2, and the City were all participating).

- (b) Discussion regarding Texas Department of Emergency Management (TDEM) Hurricane Harvey DR-4332 Section 404 Hazard Mitigation Grant Program (HMGP) funding. [Lorenzo Wingate, City Engineer and Don Pennell, Public Works Director]**

Mr. Wingate said the City has submitted eight projects and had been told selection was expected in July and those chosen could begin in January 2020. Chair Martin asked what would occur then and Mr. Wingate said procuring engineering services and beginning design.

- (c) Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, City Engineer, and Don Pennell, Public Works Director]**

Mr. Wingate referred to information included on the project list.

- (d) Presentation, discussion and possible action regarding additional drainage concerns and provide staff with direction. [Lorenzo Wingate, City Engineer, and Don Pennell, Public Works Director]**

Mr. Wingate referred to information included on the project list.

4. Set date for next Drainage and Flooding Committee Meeting

The next meeting date was set for June 10, 2019 at 5:00 p.m.

5. Committee Comments

No comments were offered.

6. ADJOURN – The meeting was adjourned without objection at 5:40 p.m.

Lee Woodward, City Secretary



REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: <u>June 10, 2019</u>
Requested By: <u>Lorenzo Wingate, P.E.</u>
Department: <u>Public Works</u>
<input checked="" type="radio"/> Report <input type="radio"/> Resolution <input type="radio"/> Ordinance

Appropriation	
Source of Funds:	_____
Account Number:	_____
Amount Budgeted:	_____
Amount Requested:	_____
Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits:

SUMMARY & RECOMMENDATION

Receive report regarding Harris County Flood Control District current and future plans relating to flooding in the City of La Porte.

ACTION REQUIRED

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date



REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

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Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits: Map
Project update chart

SUMMARY & RECOMMENDATION

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

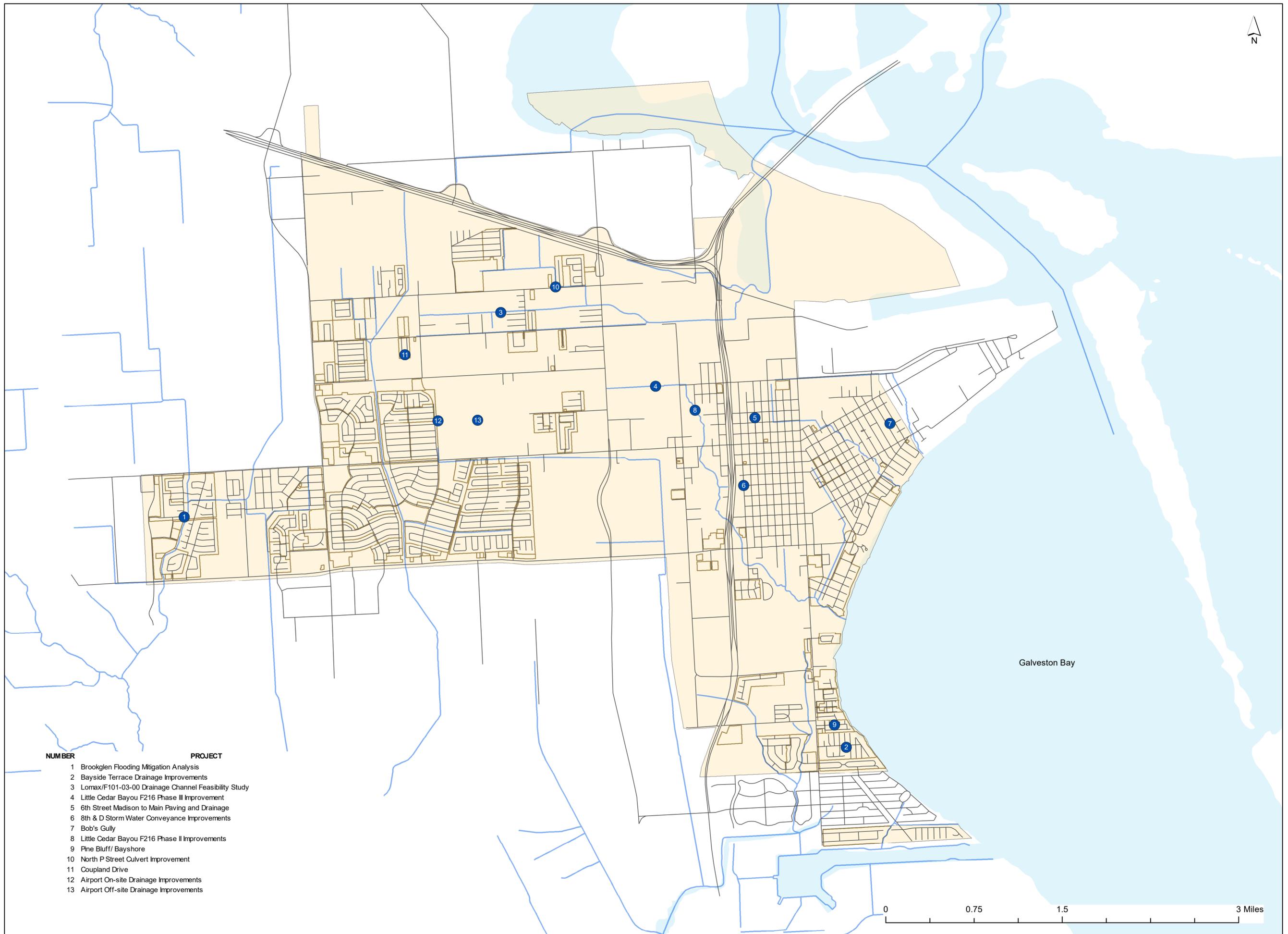
ACTION REQUIRED

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

The City of La Porte Drainage Projects 2019



DRAINAGE PROJECTS

NO.	PROJECT	DESCRIPTION	Status	Potential Grant Funding	Potential COLP Cost Share	COLP Budgeted	Estimated Completion Date
1	Brookglen Flooding Mitigation Analysis	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.	Staff working with HCFCD to develop regional solution. HCFCD currently finalizing Technical Update. Staff submitted HMGP grant application for supplemental funding on October 17, 2018. Application pending TDEM selection. Awarded projects are anticipated to begin as early as January 2020.	\$4,000,021.50	\$1,000,005.38	\$275,000.00	March 2022
2	Bayside Terrace Drainage Improvements	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.	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. Application pending TDEM selection. Awarded projects are anticipated to begin as early as January 2020.	\$2,200,000.00	\$550,000.00	\$100,000.00	March 2022
3	Lomax/F101-03-00 Drainage Channel Improvements	Harris County Flood Control District's (HCFCD) 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.	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. Application pending TDEM selection. Awarded projects are anticipated to begin as early as January 2020. HCFCD finalizing Technical Update.	\$3,200,155.00	\$800,038.75	\$150,000.00	March 2022
4	Little Cedar Bayou F216 Phase III Improvements	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 HCFCD 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.	Staff submitted HMGP grant application for supplemental funding on December 20, 2018. Application pending TDEM selection. Awarded projects are anticipated to begin as early as January 2020.	\$2,500,000.00	\$625,000.00	\$825,000.00	March 2022
5	6th Street Madison to Main Paving and Drainage	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.	Executed contract with GLO effective March 9, 2019 through August 5, 2021. Staff currently negotiating scope of work for design phase services with engineering consultant. Proposal expected to be presented to Council at 2nd June meeting.	\$325,775.30 & \$3,472,757.00	\$125,000.00	\$1,140,000.00	August 2021
6	8th & D Storm Water Conveyance Improvements	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.	Proposed improvements to be completed in phases in-house, contingent upon available funding.	N/A			March 2025
7	Bob's Gully	Obtained drainage easement along East B Street ROW in Morgans Point from Boys and Girls Harbor. Coordinate with Harris County Flood Control & the Army Corp of Engineers to determine maintenance responsibilities.	Staff coordinating timing of channel analysis with HCFCD.	N/A		\$50,000.00	April 2020

NO.	PROJECT	DESCRIPTION	Status	Potential Grant Funding	Potential COLP Cost Share	COLP Budgeted	Estimated Completion Date
8	Little Cedar Bayou F216 Phase II Improvements	Improvements to Little Cedar Bayou, from Madison Street to 450 feet south of Spencer Highway. Work of the Contract includes, but is not limited to, excavating and disposing off-site approximately 25,984 CY of soil as required for the new channel alignment. Clearing and grubbing, demolition of existing structures, erosion control, and site restoration for approximately 7 acres and planting approximately 400 3-gallon trees. Construction contract awarded to Paskey.	Project is 85% complete. All channel excavation has been completed. Contractor has to install trees and vegetation. Construction expected to be completed by June 30, 2019.	\$1,337,422.22			June 2019
9	Pine Bluff/ Bayshore	Pine Bluff Subdivision Improvements project includes the reconstruction of streets and storm facilities along Bay Shore Drive, Pine Bluff Street and the lettered streets (A thru F) within the Pine Bluff Subdivision. Construction contract awarded to Angel Bros.	Project is substantially complete.	N/A			April 2019
10	North P Street Culvert Improvement	Using the January 2009 City Wide Drainage Study prepared by Klotz Associates, Inc., Klotz Associates, Inc. provided a report in 2011 analyzing flooding in the Battleground Estates which indicated that flows within segments of the F101 Channel, north of N 'P' Street, rise to a level creating capacity limitations which produce frequent out of banks occurrences. The unimproved upstream channel flows into two forty-two inch (42") corrugated metal pipes (CMP), which feed into the improved two 8' x 10' reinforced concrete boxes downstream. LJA Engineering, Inc. provided Engineering Design Services for the recommended improvements of removing the two upstream forty-two inch (42") corrugated metal pipes and extending the dual 8' x 10' reinforced concrete boxes across N 'P' Street. Construction contract awarded to Paskey.	Project is substantially complete. Pending HCFCO inspection/approval.	N/A			April 2019
11	Coupland Drive	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.	HDR is awaiting comments from TWDB before beginning 60% design. Construction to be incorporated into Lomax Lift Station Consolidation Project.	N/A		\$1,110,000.00	July 2022
12	Airport Off-site Drainage Improvements	Evaluation of the performance of airport drainage system at the west and north boundaries of the airport to address concerns that the airport drainage system may be overwhelmed, in extreme events, leading to stormwater flowing into neighborhoods adjacent to the airport.	Drainage report completed. Report identified on-site improvements anticipated to reduce off-site runoff.	N/A			December 2019
13	Airport On-site Drainage Improvements	On-site and offsite study determined there is no impact from airport drainage run off to the area north(Lomax) of the airport. The study determined there is impact to the Glen Meadows Subdivision. Onsite detention and increased capacity will be designed to mitigate the impact on Glen Meadows.	Drainage report completed. Final design expect mid-February.	N/A			December 2019



REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: <u>June 10, 2019</u>
Requested By: <u>Lorenzo Wingate, P.E.</u>
Department: <u>Public Works</u>
<input checked="" type="radio"/> Report <input type="radio"/> Resolution <input type="radio"/> Ordinance

Appropriation	
Source of Funds:	_____
Account Number:	_____
Amount Budgeted:	_____
Amount Requested:	_____
Budgeted Item:	<input type="radio"/> Yes <input type="radio"/> No

Exhibits:

SUMMARY & RECOMMENDATION

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

ACTION REQUIRED

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date