



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 May 11, 2020 , 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.

To attend remotely, join the Zoom meeting online at <https://us02web.zoom.us/j/81481637998>. To dial in, call 877-853-5257 and use the meeting ID 814 8163 7998.

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) Approve minutes of the meeting held on March 9, 2020. [Chairman Martin]
 - (b) Presentation, discussion, and possible action in connection with receipt of a report regarding the Harris County Flood Control District's (HCFCD) and Harris County Precinc 2's current and future plans relating to flooding in the City of La Porte. [Lorenzo Wingate, Assistant Director of Public Works]
 - (c) Presentation, discussion, and possible action regarding the status of current drainage projects. [Lorenzo Wingate, Assistant Director of Public Works]
 - (d) 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.

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 May 11, 2020, 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

DANNY EARP
Vice-Chairman



CHUCK ENGELKEN
Member

STEVE GILLETT
Alternate Member

MINUTES OF THE DRAINAGE AND FLOODING COMMITTEE MEETING MARCH 9, 2020

The Drainage and Flooding Committee of the City of La Porte met on Monday, March 9, 2020, at the City Hall Council Chambers, 604 West Fairmont Parkway, La Porte, Texas, at 5:30 p.m. to consider the following items of business:

Committee Members present: Jay Martin, Chuck Engelken, Danny Earp, *(Alternate Gillett available if needed)*

Committee Members absent: None

Council-appointed officers present: Jason Weeks, Assistant City Manager; Lee Woodward, City Secretary

1. **CALL TO ORDER** - Chairman Martin called the meeting to order at 5:29 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) **Approve minutes of the meeting held on January 13, 2020. [Chairman Martin]**

Committee member Engelken moved to approve the minutes; the motion was adopted, 3-0.

- (b) **Presentation, discussion, and possible in connection with receipt of a report regarding the Harris County Flood Control District's (HCFCD) and Harris County Precinct 2's current and future plans relating to flooding in the City of La Porte. [Lorenzo Wingate, Assistant Director of Public Works]**

Jeremy Ratcliff of the Harris County Flood Control District provided updates on Harris County bond projects and which have been approved by the Commissioners Court or are scheduled for consideration.

- (c) **Presentation, discussion, and possible action regarding the Bayside Terrace Subdivision Improvements Project. [Lorenzo Wingate, Assistant Director of Public Works]**

Mr. Wingate provided updates on improvements.

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

Mr. Wingate provided updates on drainage projects.

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

There were no additional comments.

4. Set next meeting - The next meeting date was set for April 13, 2020.

5. Committee Member Comments – There were no comments.

ADJOURN – The meeting was adjourned without objection at 5:58 p.m.

Lee Woodward, City Secretary



REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: May 11, 2020
 Requested By: Lorenzo Wingate, P.E., C.F.M.
 Department: Public Works
 Report Resolution Ordinance

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

Exhibits: HCFCD Drainage Network Map; HCFCD Owned Properties

SUMMARY

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

Brookglen Subdivision – HCFCD has acquired all properties within 8800 block of Gladwyne Court (ref. HCFCD Owned Properties exhibit) and is continuing to move forward with plans the utilize NRCS grant funds received to mitigate flooding within the Brookglen Subdivision.

F101-06-00 – HCFCD has authorized consultants to proceed to efforts towards preparation of preliminary engineering report. Geotechnical and surveying efforts initiated on April 17, 2020.

Little Cedar Bayou (F216-00-00) Phase III – COLP staff is coordinating with HCFCD staff to establish scopes of work for consultants and avoid duplication of effort. COLP Public Works has removed high spots within channel segment between Sens Rd. and the railroad tracks. COLP Public Works staff began mobilizing equipment to begin additional clearing efforts within F Street ROW, adjacent to F216, on April 27, 2020.

RECOMMENDED MOTION

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

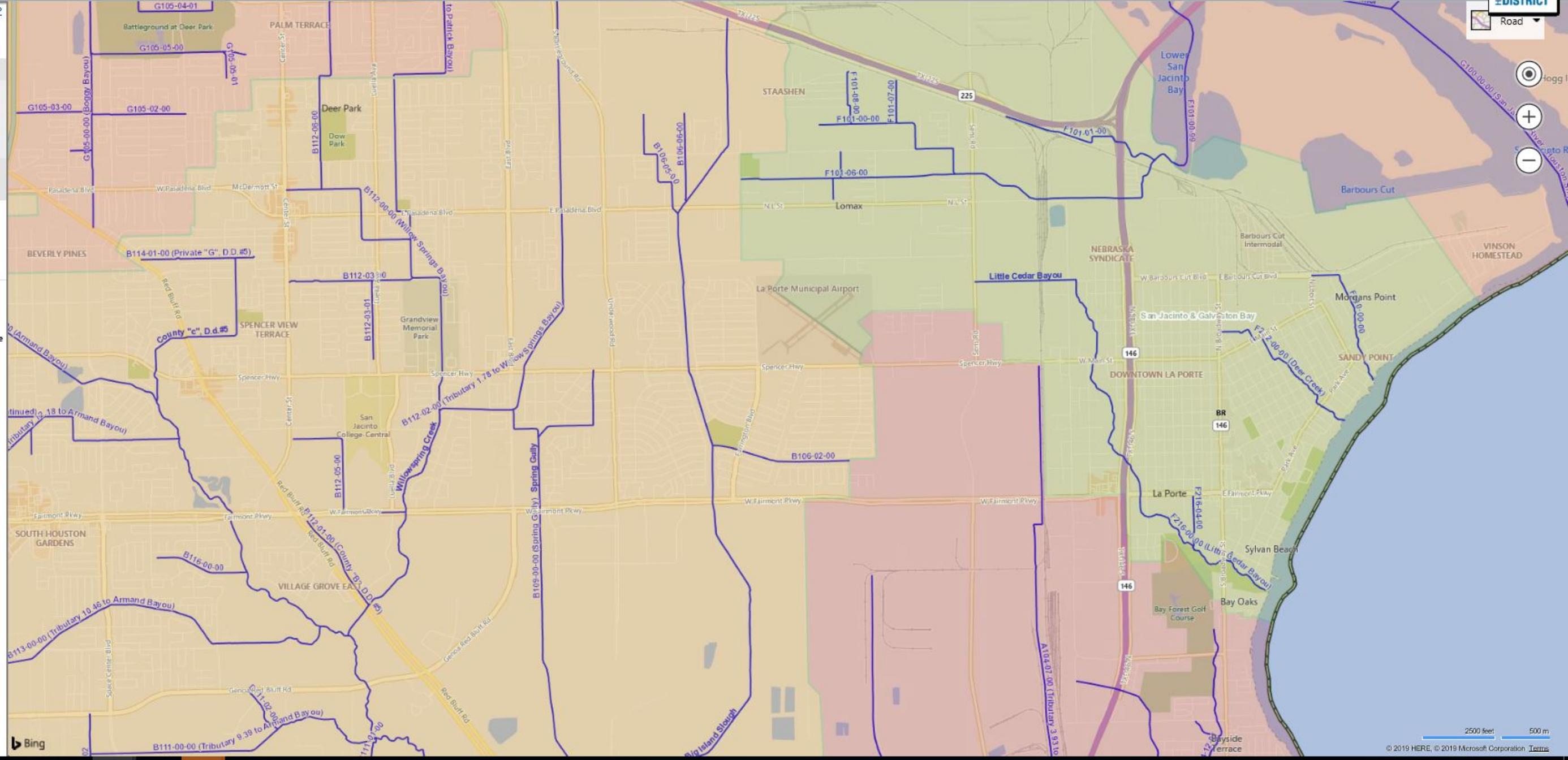
ADDRESS SEARCH [HELP](#)
Street Address, City, State, Zip Code
e.g. 8900 Northwest Fwy., Houston, TX 77092

MAP VIEW OPTIONS - Select One

- Mapped Floodplains
 - Floodway
 - 1% (100-year) Floodplain
 - 0.2% (500-year) Floodplain
 - 1% (100-year) Coastal Floodplain
- Watersheds (color-coded)
- Ponding
- Channels (Bayous and Creeks)
 - Open Channels
 - Enclosed Channels
- Harris County Boundary

[Reset to County-Level View](#) [Disclaimer](#)

 An interactive mapping tool of the Harris County Flood District





REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: <u>May 11, 2020</u>
Requested By: <u>Lorenzo Wingate, P.E., C.F.M.</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: Project map
Project update chart
Harris County Drainage Network Map
Airport Drainage Improvements

SUMMARY

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

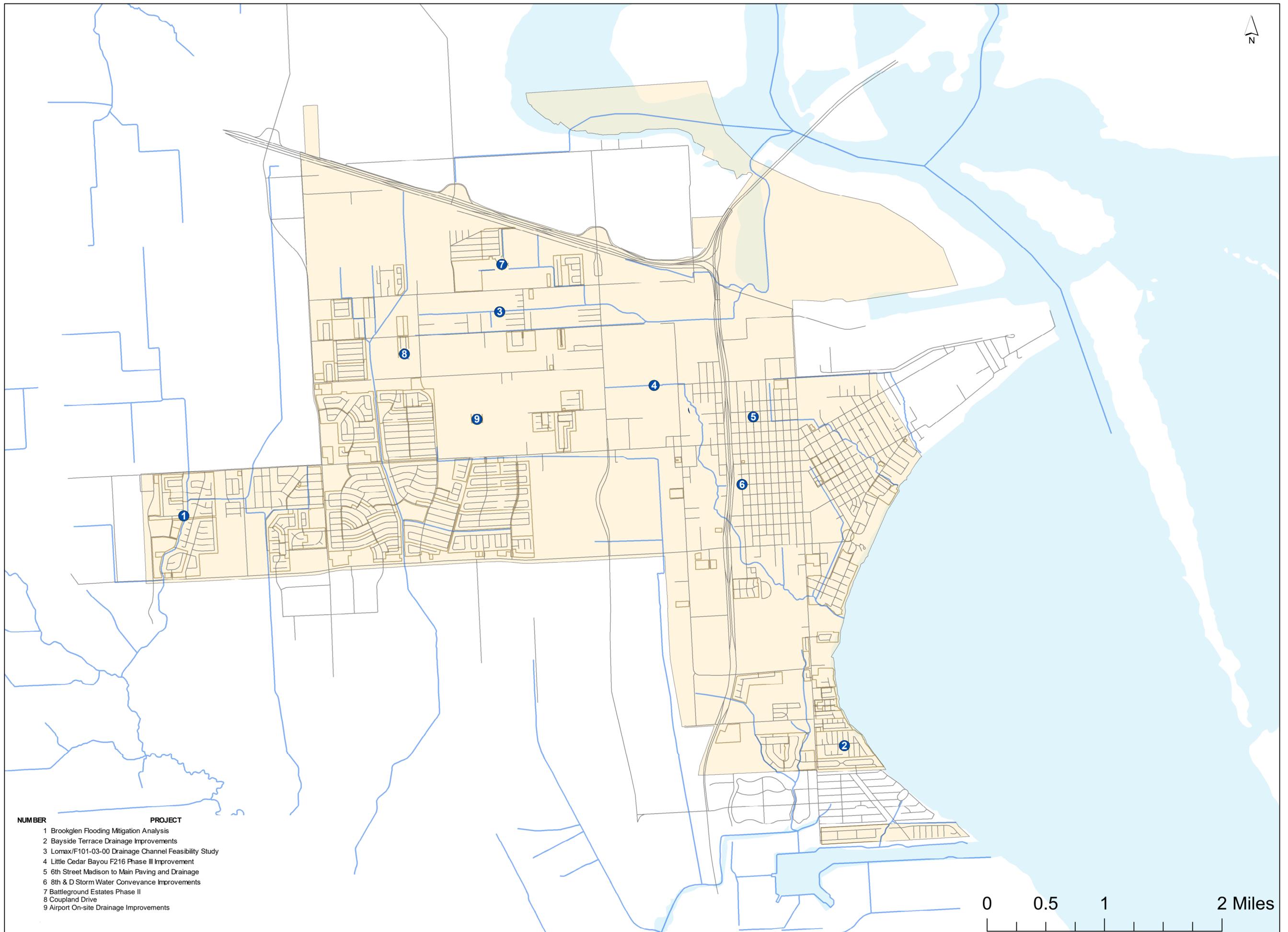
RECOMMENDED MOTION

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date

The City of La Porte Drainage Projects 2019



DRAINAGE PROJECTS

NO.	PROJECT	PROJECT MANAGER	DESCRIPTION	PROJECT PHASE (Feasibility/Preliminary Design/Final Design/Bidding/Construction)	Status	Potential Grant Funding	Potential COLP Cost Share	COLP Budgeted Amount	Estimated Completion Date	% Complete (Phase)	On Schedule
1	Brookglen Flooding Mitigation Analysis	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.	Feasibility	Staff working with HCFCD to develop regional solution. HCFCD is planning mitigation efforts within the 8800 block of Gladwyne Ct. Staff submitted HMGP grant application for supplemental funding on October 17, 2018. In a letter dated April 13, 2020, TDEM notified COLP staff that this project was not selected for funding. Staff plans to coordinate with HCFCD for potential partnership opportunities to complete local drainage improvement.	\$4,000,021.50	\$1,000,005.38	\$275,000.00	March 2022	10%	No
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.	Preliminary Design	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. In a letter dated April 13, 2020, TDEM notified COLP staff that this project was not selected for funding. During the December 9, 2019 City Council Meeting, Council voted to follow the recommendation of the Drainage Committee of proceeding with the Bayside Terrace Drainage Improvements Project. Consultant has begun surveying efforts related to preliminary engineering report.	\$2,200,000.00	\$550,000.00	\$100,000.00	March 2022	0%	No
3	Lomax/F101-03-00 Drainage Channel Improvements	Public Works	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.	Preliminary Design	Staff submitted HMGP grant application for supplemental funding on November 26, 2018. In a letter dated April 13, 2020, TDEM notified COLP staff that this project was not selected for funding. HCFCD has initiated PER phase and HCFCD consultants are currently performing survey and geotechnical efforts.	\$3,200,155.00	\$800,038.75	\$150,000.00	March 2022	10%	No
4	Little Cedar Bayou F216 Phase III Improvements	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 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.	Feasibility	Staff submitted HMGP grant application for supplemental funding on December 20, 2018. In a letter dated April 13, 2020, TDEM notified COLP staff that this project was not selected for funding. During the December 9, 2019 City Council Meeting, Council voted to follow the recommendation of the Drainage Committee of proceeding with the Little Cedar Bayou (F216) Phase III Project in lieu of waiting for grant funding award determinations. COLP staff is coordinating with HCFCD staff to establish scopes of work for consultants and avoid duplication of effort. COLP Public Works has removed high spots within channel segment between Sens Rd. and the railroad tracks. COLP Public Works staff began mobilizing equipment to begin additional clearing efforts within F Street ROW, adjacent to F216, on April 27, 2020.	\$2,500,000.00	\$625,000.00	\$825,000.00	March 2022	0%	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.	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. PER has been finalized. Staff is currently negotiating contract for design phase services.	\$3,798,532.30	\$125,000.00	\$1,140,000.00	August 2021	100%	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.	Final Design	This project has been incorporated into the 7th Street Rehabilitation Project. Staff reviewed 60% plans. Consultant is revising plans to address staff comments.	N/A	N/A	\$139,340 / \$1,850,000	June 2021	60%	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 submitted HMGP grant application for supplemental funding on December 20, 2018. In a letter dated April 13, 2020, TDEM notified COLP staff that this project was not selected for funding. Staff requires direction from drainage committee and council on utilization of funds.	\$880,500.00	\$220,125.00	\$65,000.00	August 2022	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	Staff has reviewed 60% plans and provided comments to consultant. Construction to be incorporated into Lomax Lift Station Consolidation Project.	N/A	N/A	\$1,110,000.00	July 2022	45%	Yes

NO.	PROJECT	PROJECT MANAGER	DESCRIPTION	PROJECT PHASE (Feasibility/Preliminary Design/Final Design/Bidding/Construction)	Status	Potential Grant Funding	Potential COLP Cost Share	COLP Budgeted Amount	Estimated Completion Date	% Complete (Phase)	On Schedule
9	Airport On-site Drainage Improvements	Public Works	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.	Construction	Contractor is approximately 70% complete with construction improvements on west side of airport. Downstream connection to Spencer Highway is installed; construction of one of two detention ponds is complete. Schedule shows a completion approximately 75 days before the end of contract time.	\$2,200,000.00	\$244,500.00	\$248,467.00	May 2020	60%	Yes
10	Airport In-house Drainage Improvements	Public Works	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 are under construction to mitigate airport drainage issues.	Construction	Additional drainage capacity has been provided. The efforts of PW staff are complete.	N/A	N/A	N/A	N/A	N/A	N/A

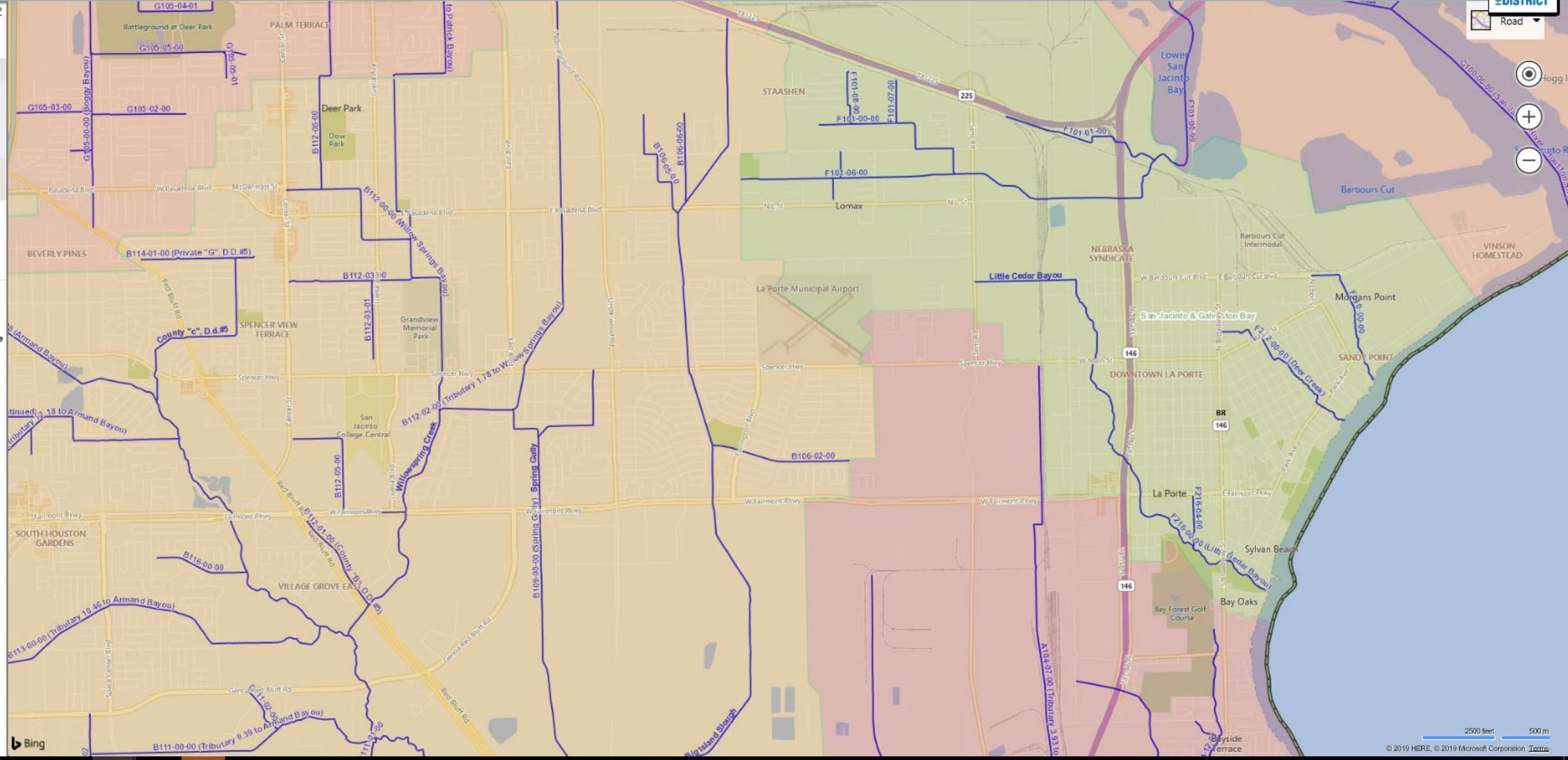
ADDRESS SEARCH [HELP](#)
Street Address, City, State, Zip Code
e.g. 8900 Northwest Fwy., Houston, TX 77092

MAP VIEW OPTIONS - Select One

- Mapped Floodplains
 - Floodway
 - 1% (100-year) Floodplain
 - 0.2% (500-year) Floodplain
 - 1% (100-year) Coastal Floodplain
- Watersheds (color-coded)
- Ponding
- Channels (Bayous and Creeks)
 - Open Channels
 - Enclosed Channels
- Harris County Boundary

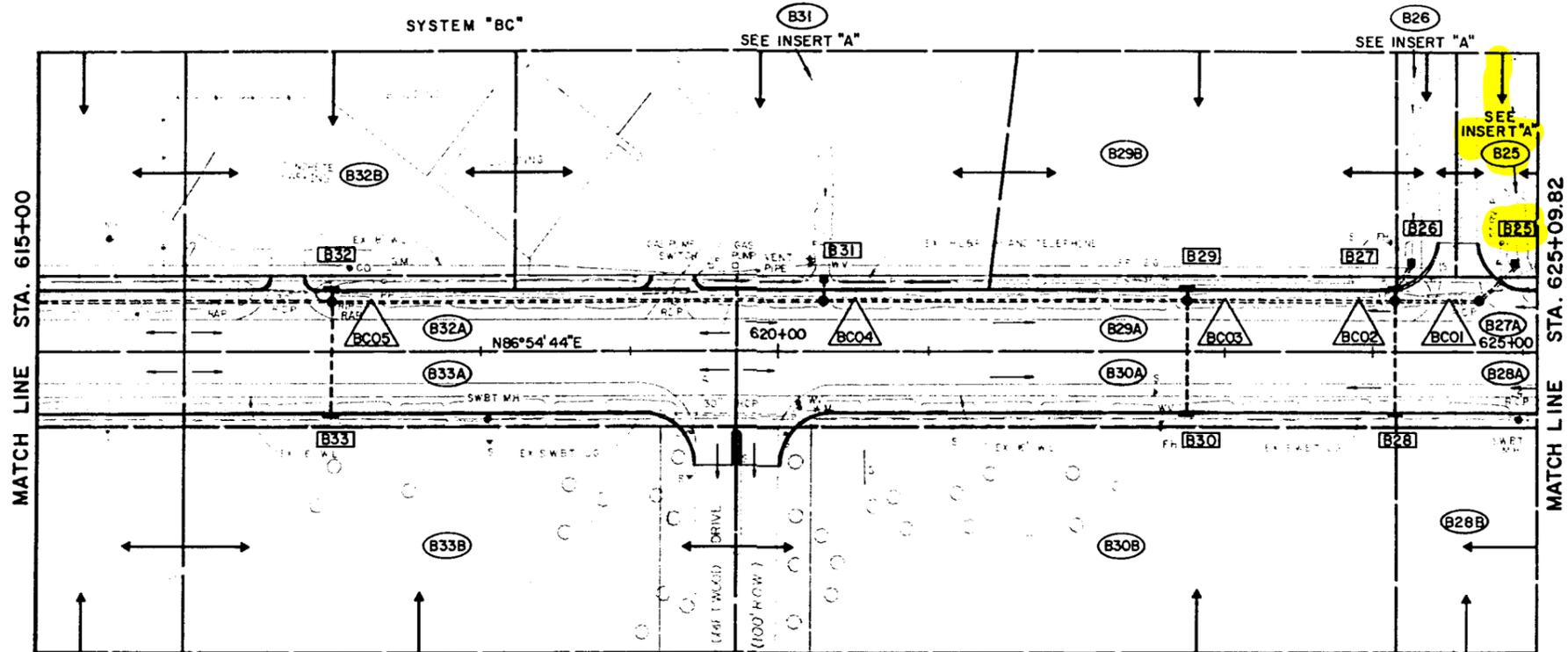
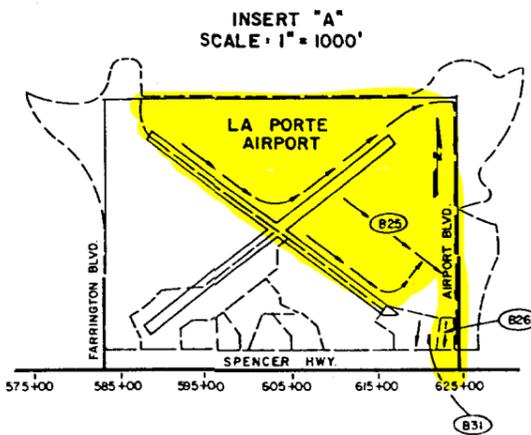
[Reset to County-Level View](#) [Disclaimer](#)

 An interactive mapping tool of the Harris County Flood District



Drainage Areas	"C" Factor			Total CA	Rain Frequency (Years)	Time of Concentration (Min.)	Intensity (In./Hr.)	Flow (CFS)	Total Flow (CFS)
	No.	Acres							
B25	180.00			180.00	2	41	3.03	191.00	33.9 *
B26	2.07			2.07	2	10	6.76	4.90	4.90
B27A	0.27	0.27		0.24	2	10	6.76	1.62	3.72
B27B	0.48		0.48	0.31	2	10	6.76	2.10	
B29A	0.48	0.48		0.43	2	10	6.76	2.91	6.90
B29B	0.91		0.91	0.59	2	10	6.76	3.99	
B31	7.15			7.15	2	10	6.76	16.90	16.90
B32A	0.40	0.40		0.36	2	10	6.76	2.43	
B32B	0.77		0.77	0.50	2	10	6.76	3.38	5.81

* TOTAL FLOW LIMITED BY DITCH CAPACITY OF 33.9 C.F.S.



Drainage Areas	"C" Factor			Total CA	Rain Frequency (Years)	Time of Concentration (Min.)	Intensity (In./Hr.)	Flow (CFS)	Total Flow (CFS)
	No.	Acres							
B28A	0.27	0.27		0.24	2	10	6.76	1.62	5.20
B28B	0.82		0.82	0.53	2	10	6.76	3.58	
B30A	0.51	0.51		0.46	2	10	6.76	3.11	9.80
B30B	1.53		1.53	0.99	2	10	6.76	6.69	
B33A	0.43	0.43		0.39	2	10	6.76	2.64	8.31
B33B	1.29		1.29	0.84	2	10	6.76	5.67	

121



SCALE: 1" = 50'

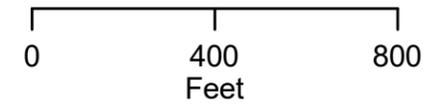
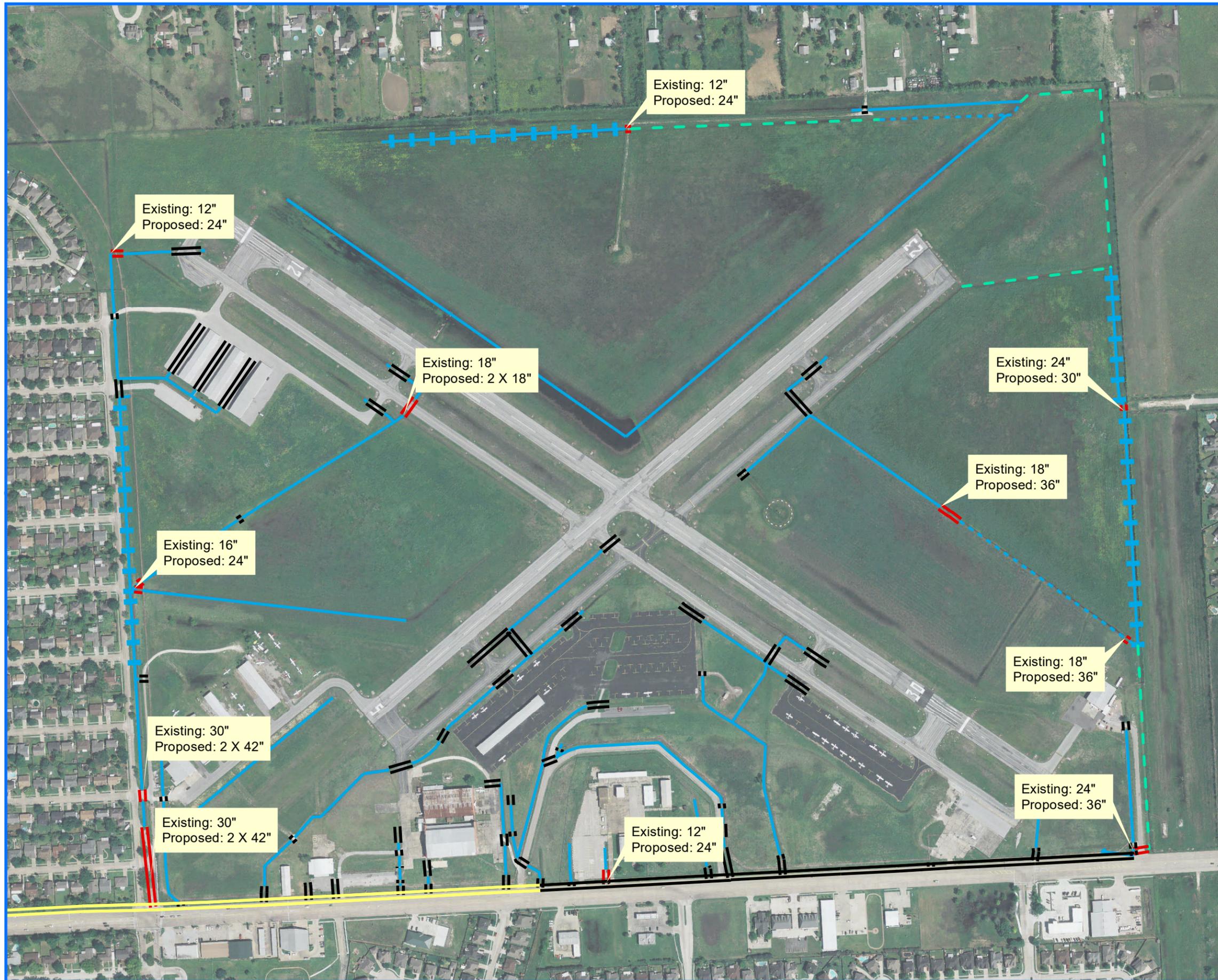
STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION
SPENCER HIGHWAY

DRAINAGE SYSTEM MAPS
STA. 615+00 TO STA. 625+0982

SHEET 15 OF 25

FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CDP 21(20)M, ETC.	121
STATE	STATE DIST. NO.	COUNTY
TEXAS	12	HARRIS
CONT.	SECT.	JOB HIGHWAY NO.
8020	12	011 MH

ETC.

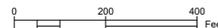


- Structure Type**
- == Circular Pipe
 - == Box Culvert
 - Ditch
 - == Improved Culvert
 - - Lowered Ditch
 - + + Linear Detention
 - - Widened Ditch

**City of La Porte
La Porte Municipal Airport
Storm Water Drainage Improvements**

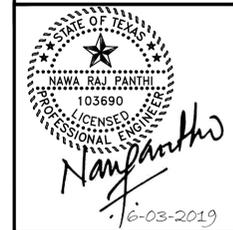
**Exhibit 9
Proposed Drainage
Improvements**





LEGEND

- EXISTING STORM WATER INFRASTRUCTURE
- EXISTING DITCH
- EXISTING FLOW OF DITCH
- EXISTING DITCH



HT&J LLC
 10351 STELLA LINK RD
 HOUSTON, TEXAS 77025
 (O) (832) 767-0090
 TBPE FIRM No. F-14087

CML PE's
 Professional Engineers
 TEXAS FIRM F-18997

LA PORTE MUNICIPAL AIRPORT

AIRFIELD PAVEMENT REHABILITATION AND DRAINAGE IMPROVEMENTS 2019

PROJ MGR Panthi

DRAWN BY Murphree

CHECKED BY Panthi

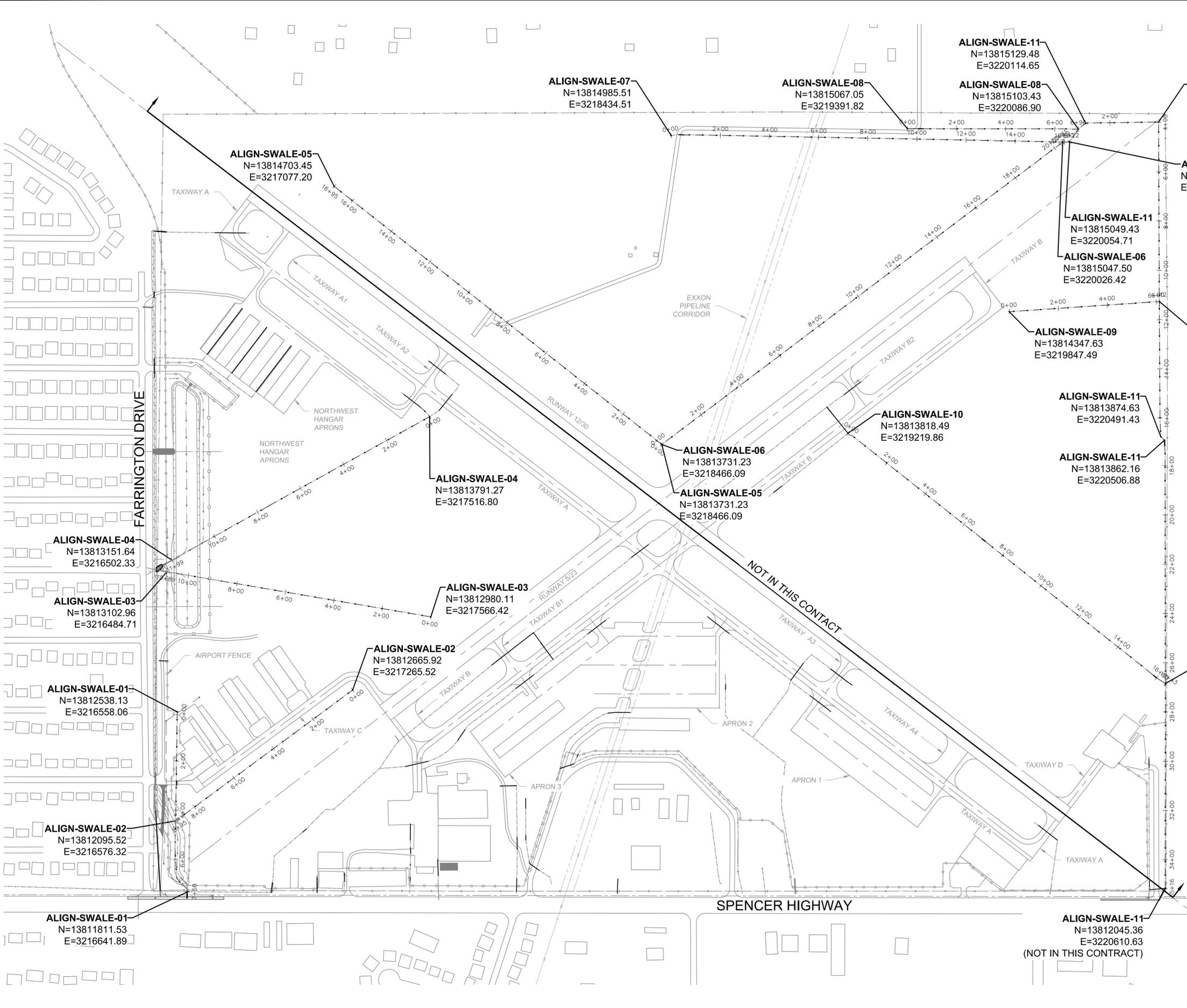
PROJ NO 1912LP RTE

CIVIL PE's PROJ NO 1712LP RTE

TITLE DRAINAGE IMPROVEMENTS

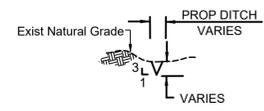
OVERALL EXISTING DRAINAGE DITCHES

SHEET C-301

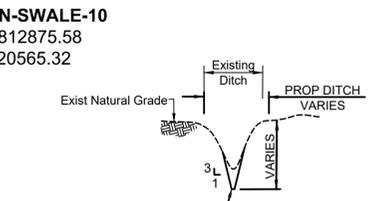


NOTES

1. FOR SURVEY CONTROLS (SEE SHEET G-003)
2. THE CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE AND AVOID ANY STANDING WATER DURING CONSTRUCTIONS.
3. THE CONTRACTOR MUST MAINTAIN PORTABLE STORMWATER PUMP AVAILABLE ON-SITE ALL TIME TO REMOVE ANY STANDING WATER NOT DRAINED BY GRAVITY.
4. THE CONTRACTOR MUST EXERCISE CAUTION WHILE EXCAVATING AND NOT DAMAGE ANY UNDERGROUND UTILITIES.
5. THE SIDE SLOPES SHOULD NOT BE STEEPER THAN 3:1 SLOPES.



TYPICAL PROPOSED SWALE



TYPICAL REGRADING DITCH

CLEANOUT EXISTING CULVERT TO RE-ESTABLISH POSITIVE DRAINAGE INTO EXISTING DITCH

REGRADING SOME DITCHES AND SWALES IS NOT A PART OF THIS CONTRACT. IT WILL BE A SEPARATE CONTRACT.

SPENCER HIGHWAY

NOT IN THIS CONTACT

ALIGN-SWALE-11
 N=13812045.36
 E=3220610.63
 (NOT IN THIS CONTRACT)

ALIGN-SWALE-01
 N=13811811.53
 E=3216641.89

ALIGN-SWALE-02
 N=13812095.52
 E=3216576.32

ALIGN-SWALE-01
 N=13812538.13
 E=3216558.06

ALIGN-SWALE-03
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 E=3216484.71

ALIGN-SWALE-04
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ALIGN-SWALE-05
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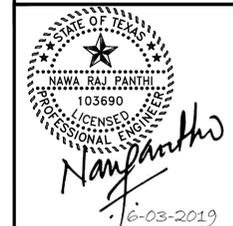
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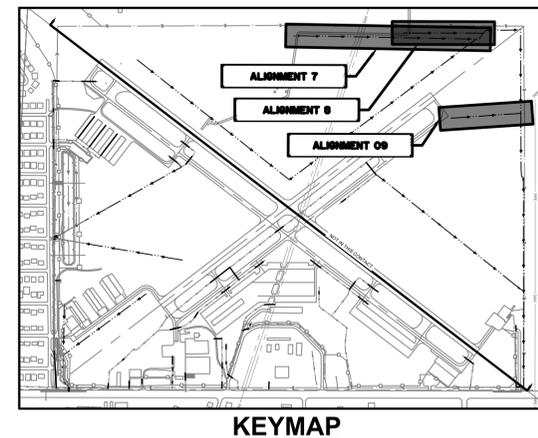
LA PORTE MUNICIPAL AIRPORT

AIRFIELD PAVEMENT REHABILITATION AND DRAINAGE IMPROVEMENTS 2019

PROJ MGR Panthi
 DRAWN BY Murphree
 CHECKED BY Panthi
 PROJ NO 1912LP RTE
 CIVIL PE's PROJ NO 1712LP RTE
 TITLE **DRAINAGE IMPROVEMENTS**

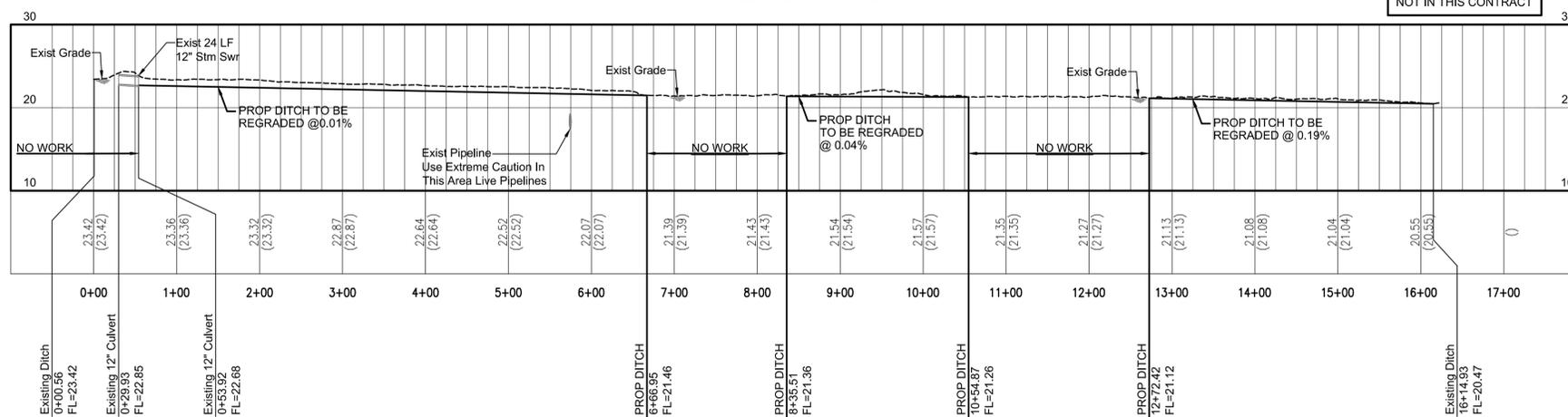
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SHEET **C-304**

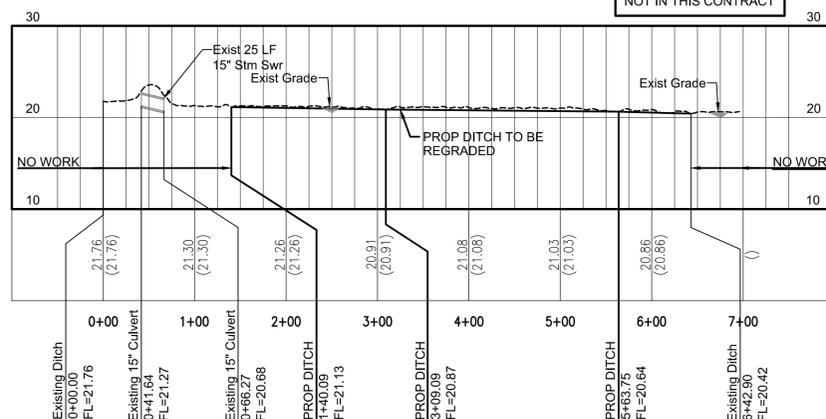


KEYMAP

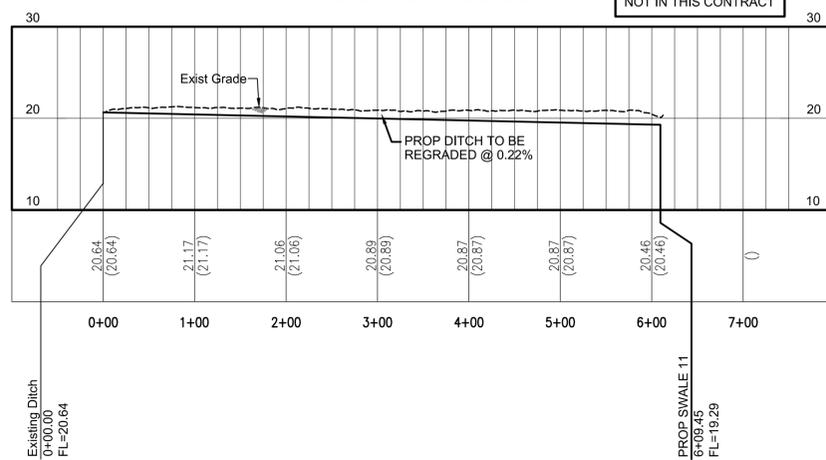
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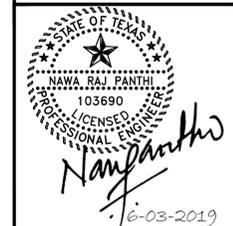


ALIGN-SWALE-09



REGRADING DITCHES AND SWALES SHOWN ON THIS SHEET ARE NOT A PART OF THIS CONTRACT. IT WILL BE A SEPARATE CONTRACT.





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LA PORTE MUNICIPAL AIRPORT

AIRFIELD PAVEMENT REHABILITATION AND DRAINAGE IMPROVEMENTS 2019

PROJ MGR Panthi

DRAWN BY Murphree

CHECKED BY Panthi

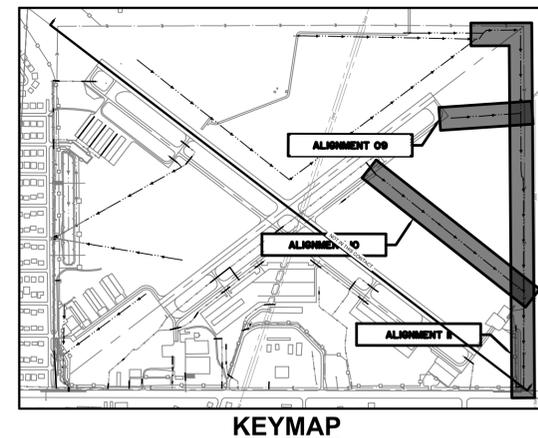
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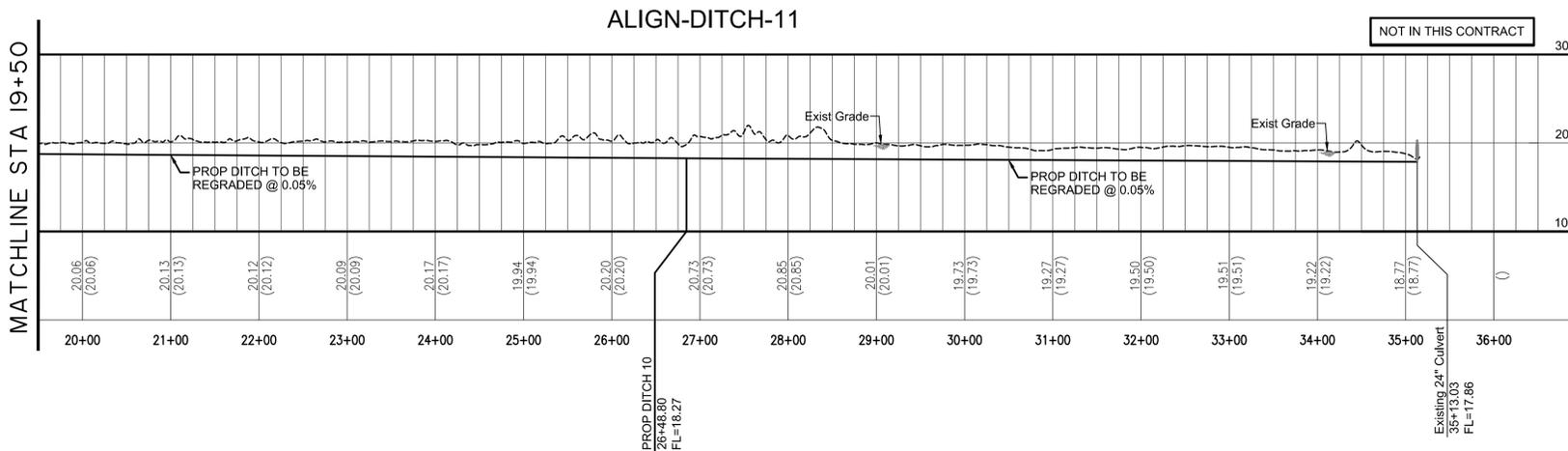
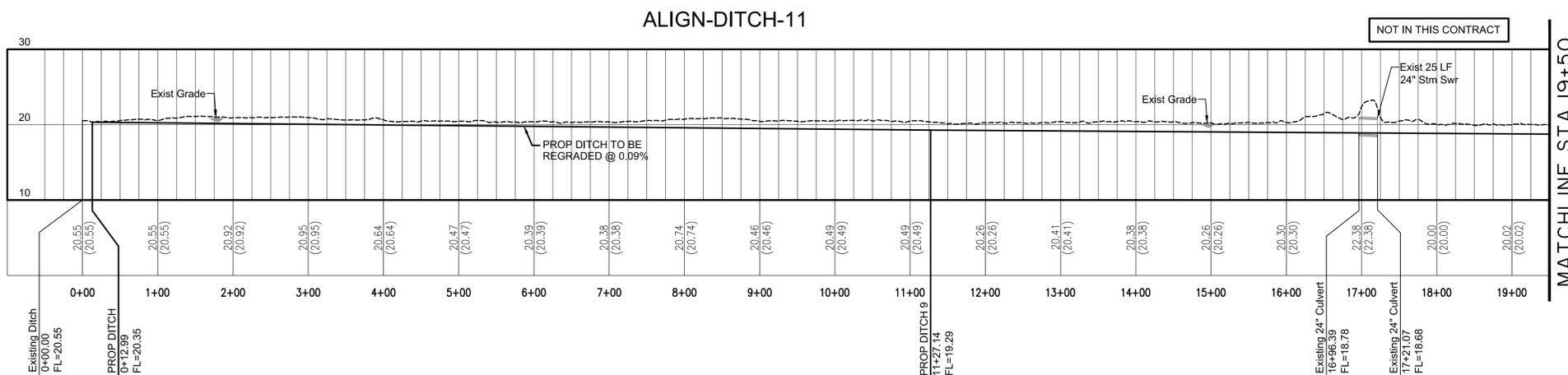
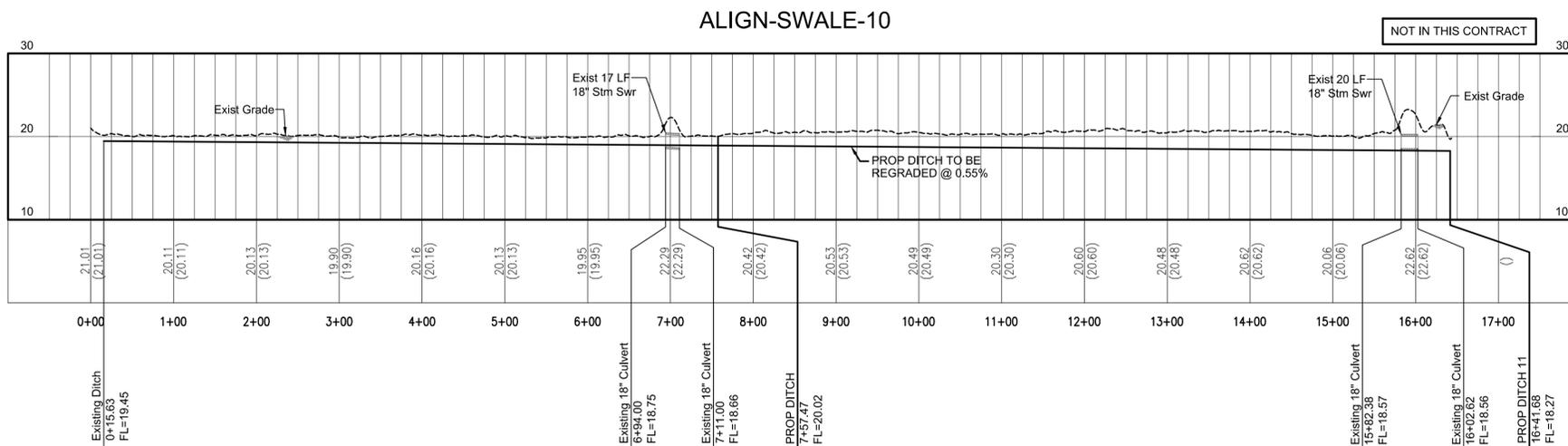
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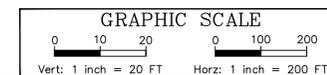
SHEET C-305



KEYMAP



REGRAIDING DITCHES AND SWALES SHOWN ON THIS SHEET ARE NOT A PART OF THIS CONTRACT. IT WILL BE A SEPARATE CONTRACT.





REQUEST FOR DRAINAGE & FLOODING COMMITTEE AGENDA ITEM

Agenda Date Requested: <u>May 11, 2020</u>
Requested By: <u>Lorenzo Wingate, P.E., C.F.M.</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

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

RECOMMENDED MOTION

Approved for Drainage Committee Agenda

Corby D. Alexander, City Manager

Date