



West Lea Subdivision Drainage Improvements

Is it in Budget?		Is it on Schedule for the Current Phase per the Contract?		Community Benefit
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<i>Sustainable Infrastructure</i>
Project Phase?				
Construction				

Highlights:

- The Design contract was awarded to IDS Engineering Group on August 22, 2019. The Construction contract was awarded to Reliance Construction Services (Reliance) in October of 2021. The Notice to Proceed was issued January 31, 2022. The contractor had a lead time for some of the waterline fittings due to supply chain issues, that caused the delay in the actual start date of March 21, 2022.
- Reliance began construction by installing 12", 8", and 6" waterlines along Heron Lane. The waterlines are being relocated because they conflicted with the proposed storm lines.
 - Reliance has completed installation of 12" waterline west on Heron Lane from Meadowlark Way to Bluebird Way where it reduced to a 6" line to the end of Heron Lane.
 - The Contractor has installed 8" lateral waterlines across Heron Lane on Meadowlark Way and Bluebird Way.
 - Residential service connections to the new waterlines along Heron Lane are being installed as the work progresses.
- The Project Team (PM, CM and Engineer) conducted a community outreach meeting in the neighborhood on the evening of May 2nd. The contractor provided a short presentation and the Team answered residents' questions. The meeting was deemed successful, and no questions remained unanswered by the conclusion of the meeting.

Budget Info:

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
General Obligation Bonds	2020	600,000		600,000
General Obligation Bonds	2021	1,000,000		1,000,000
General Obligation Bonds	TBS2022	3,992,000		3,992,000
General Obligation Bonds *	TBS2022	950,000		950,000
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources (Transfer from DR2201)		490,062		490,062
Other Funding Sources (Fund Balance from 506)		395,344		395,344
Total Funding Sources		7,427,406	-	7,427,406

Expenditures	To Date	Future	Total
PER			-



Expenditures	To Date	Future	Total
Land	249		249
Design	563,630		563,630
Construction	6,274,906	238,458	6,513,364
Construction Management/Inspection			-
Construction Materials Testing	99,380		99,380
FF&E			-
Total Expenditures	6,938,165	238,458	7,176,623
Project Contingency	3%		250,783
Project Balance			0

Schedule Info:

	Base Line	Current
Design Start	August-19	August-19
Bid Start	September-20	June-21
Construction Start	August-21	January-22
Construction Completion	January-23	

Upcoming Work Items:

- Reliance is currently working to pressure test and sterilize the newly installed waterline offsets so they can be placed into service.
- The Contractor will begin installation of the storm pipe in mid May 2022 once the waterline relocation work is completed and in service.
- Drainage work will start at the newly installed BBD4 storm junction box at the end of Meadow Lane and proceed west along Meadow Lane, turning south on Bluebird Way.
- The contractor intends to have 2 crews, 1 crew on each street and they will re-grade the ditches as they complete installation of the storm lines.
- When the drainage crew installing pipe south along Bluebird Way reaches West Lea Lane they will stop, connect to the BDD4 pipe at West Lea Lane and continue west until they reach the intersection of West Lea Lane and Bluebird Way. At that point they will continue south along Bluebird Way.

Project Manager: Jennifer Lee

Construction Manager: Tim Ford

Designer: IDS Engineering

Contractor: Reliance Construction Services

Scope:

The scope of West Lea Subdivision Drainage project includes modifying ditch flowlines, widening roadside ditches and increasing culvert pipe sizes within the subdivision to collect and convey runoff to the Drainage District’s detention facility immediately east of the subdivision. Improvements include the removal of existing undersized piping, installation of approximately 10,500 LF of up-sized piping, re-grading, widening, and re-



shaping approximately 40,500 LF of roadside ditch, utility adjustments, replacement of street light conduit, the removal and replacement of driveway culverts, upsizing of culverts, tree removal and protection, sidewalk and pavement repair, and site restoration. The project will also make improvements to the drainage ditch along the subdivision's eastern perimeter to Mary's Creek and improvements to the roadside ditch along Marvel Road (FM1128) in coordination with BDD4 and TxDOT.

Justification:

Several homes in this neighborhood have a history of repetitive loss. Concerns related to drainage have been expressed by the residents on several occasions. In Addition, the city staff have participated in several HOA meetings to understand the drainage concerns. Majority of the subdivision is located within the FIRM 100-year floodplain. Subdivision drainage is currently severed by an inadequate open ditch system. BDD4 is participating in this area by expanding the detention basin on the east side of the subdivision and widening Mary's Creek from FM1128 to Magnolia.

Previous Memos: 06.20.19, 10.08.20, 03.18.21, 10.14.21



Project Location Map:



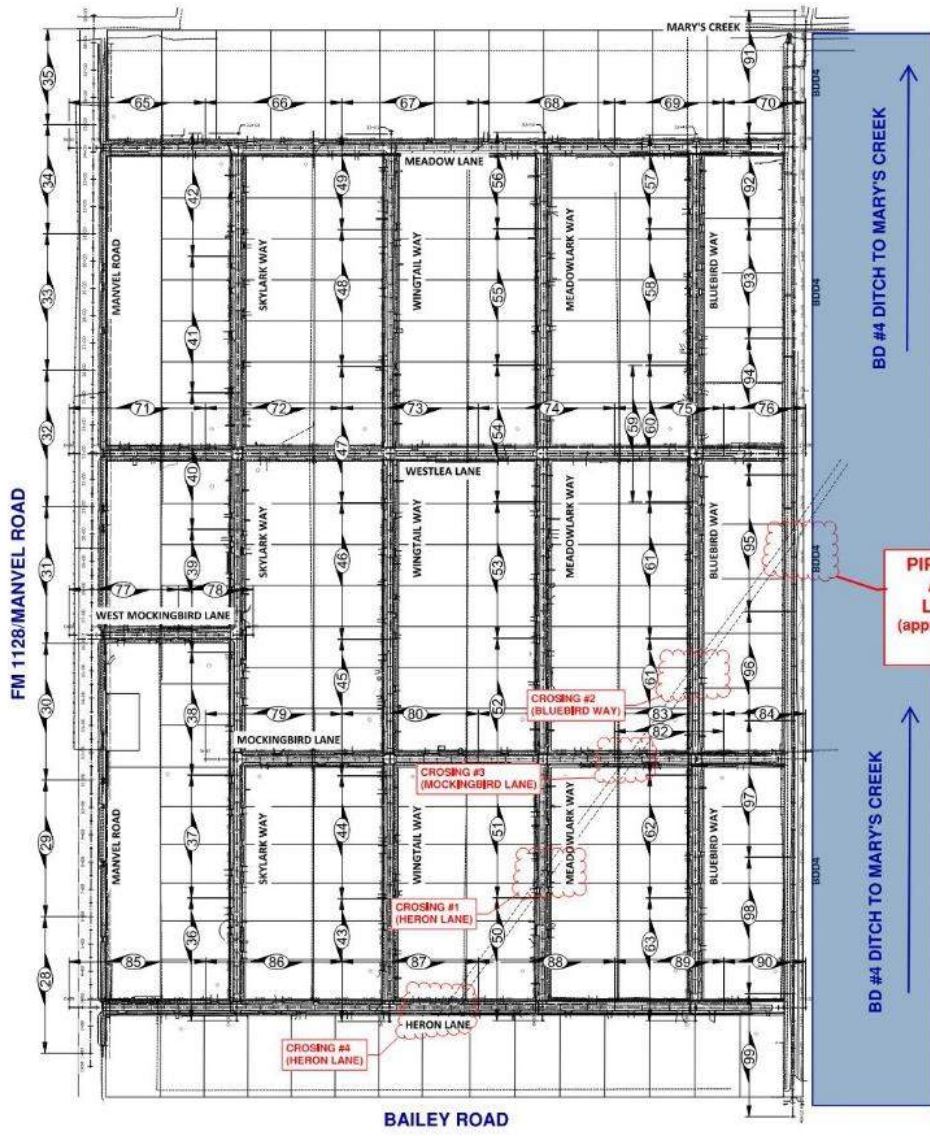
CITY OF PEARLAND
West Lea



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1 inch = 300 feet
DECEMBER 2018
GIS DEPARTMENT





ENTERPRISE PIPELINE THROUGH WEST LEA SUBDIVISION

PIPELINE CUT AND CAP LOCATION
(approx 123 lf. to be removed)



Waterline Offset at Mockingbird Lane and Bluebird Way



Waterline crossing at Meadowlark and Heron Way



Waterline crossing Heron Lane at Bluebird



Waterline offset Mockingbird at Bluebird



Waterline crossing Bluebird Way at Heron Lane



Installing Fire Hydrant on Heron Lane