

## **Westside Infrastructure Project**

### **Background**

Analysis of Hedwig Village's Westside infrastructure dates back many years to initial resident concerns about drainage issues and road conditions. In 2017, the City hired LJA Engineering to analyze drainage in the area and the City held public meetings to gather resident input and feedback. In 2019, the City roadway condition reports highlighted the streets that were in need of repair. In 2021, the Streets and Drainage Committee (made up of City residents) was formed to provide recommendations to City Council regarding maintaining streets and drainage across the City. As a result, in 2022, IDS Engineering was hired to lead many City infrastructure priorities, including assessing possible actions to take from the prior Westside analysis. During multiple Streets and Drainage Committee meetings, residents provided impact pictures and videos of prior storm events and the committee discussed options. Both the committee and City Council agreed that the roads and sidewalks on the Westside should not be widened. In early 2023, the City completed a TV and clean out of the Westside storm sewer system, which revealed more areas of concern. In October 2023, the City held a public meeting to review the findings on infrastructure condition and solicit public comments from residents. In December 2023, EHRA Engineering was hired to develop an initial design. The objective of the design was to improve the aging and failing infrastructure in the Westside area.

### **Current Status of our Infrastructure and Resulting Issues/Concerns**

The roadways and storm sewer in the Westside area have met or exceeded their service life. The network is aging and has reduced capacity. Concrete streets exceeding 50 years old and asphalt streets last resurfaced nearly two decades ago necessitate reinvestment. Concurrently, drainage systems require rehabilitation, replacement, or upgrading to meet current standards. This is also an opportunity to partner with the Memorial Villages Water Authority (MVWA) to update their facilities in the road right-of-way to prevent pavement/roadway surface cuts if such work is performed after implementation of the Westside project. Additionally, the TV and Cleaning of pipes provided evidence of misaligned pipes, failed pipe joints, failing pipe structure and pipe grade issues (see attached pictures of current pipe conditions). Our current storm sewer does not meet current storm sewer design standards and has undersized segments of pipe.

The MVWA, has documented waterline leaks in the Westside area, underscoring the importance of this project to prevent further maintenance costs. Collaboration with the MVWA aims to streamline project execution and minimize resident disruption.

The Harris County Flood Control has recently desilted Soldiers Creek which should help with water conveyance. Additionally, the City began the TV and Clean project this month in Mustang Alley which is one of the outfalls for the area.

### **Process for Determining what Action to Take**

The project's progression involves several stages. The City has analyzed these issues for several years. We are now in the beginning of the Design Phase where plans and elevations are studied, and

an overall plan including the specifics needed for construction plans are created. The last step is the Construction phase.

The design process is guided by resident concerns – the goal is to improve the infrastructure condition with minimal disruption. We have received feedback from our residents and have advised EHRA to protect trees (an arborist will be consulted throughout the project). We will maintain access for residents, school buses, and post office/delivery services, etc. throughout construction.

**Interaction with the Public on this Project**

Several public meetings have been held with IDS, the Streets and Drainage Committee, and City Council. Each month, Council and the public are updated in our council meetings regarding projects throughout the City. Typically, the updates have been reviewed by the Streets and Drainage Committee prior to the Council Meeting. A public meeting was held on October 19, 2023 to inform the public and to avail City engineers and representatives to our Westside residents. Thirty percent of households in the Westside area were in attendance. Several comments were received from residents as a result of that meeting. The City is grateful to all who attended and provided input. Responses to comments received during the October meeting were responded to via US Mail.

**Next Steps**

**EHRA Engineering is preparing input for a 30% design meeting that is planned for Thursday, April 25 at 6:30 at City Hall.** The purpose of this meeting is to allow EHRA to provide an update in the Design process thus allowing council to make needed decisions for the remaining design. We encourage you to attend this meeting for your feedback and input to Council. To help us prepare and to make the best use of your time for the April 25<sup>th</sup> meeting, please submit questions or comments in advance to the email address below. Note, no decisions regarding road surface, curbs, ditches, and swales have been made. An initial analysis of each street is being conducted and decisions will be finalized at a later council date. Your participation and feedback are important to ensuring the success of this infrastructure initiative. City Hall is located at 955 Piney Point Road.

Please direct any questions or comments to [wbaimbridge@hedwigtx.gov](mailto:wbaimbridge@hedwigtx.gov).

Findings of Engineers		
		Current Street Information
Street Name	Last Year Paved/Overlaid	Problem
Magdalene Dr (Spriggs to Taylorcrest)	1955	Fracturing/Repairs needed - Spriggs intersection very bad
Magdalene Dr (Denise to Spriggs) - Asphalt	2004	Asphalt - some fracturing, edges peeling slightly
Skene Way	1955	Major fracturing
Cawdor Way	1955	Light fracturing
Duart Dr	1972	Some fracturing down middle and at end of road
Spriggs Way	2001	East - Some fracturing, West - Some fracturing, Edge peeling at 11702, repairs needed in turn around
Joan of Arc	2004	Most fractured
Denise	2004	Slight fracturing and three trees are damaging the roadway
Constance	2004	Some fracturing
Merridel	2006	Good
Lou Al Ct	2004	Some fracturing
Lou Al Ct (N)	2004	Some fracturing
Lou Al Ct (S)	2004	Good



# Existing Conditions of the Storm Sewer System Part 1



Examples of Joint Separation



Example of a Failed Segment of Pipe



# Existing Conditions of the Storm Sewer System Part 2



Example of a Failed Concrete Pipe



Examples of Vertical Misalignment

