

Overview: One of Public Works' functions is to maintain city owned drainage systems throughout the City of Angleton. Through the general fund the street/drainage operations are funded. This allows a crew of 7 employees to perform tasks of tree trimming, street sweeping, street maintenance, drainage maintenance, ROW maintenance, signage maintenance, Quiet Zone inspections/maintenance, and one employee dedicated to our fleet maintenance. There are currently 586 total drainage-related work orders in our system. Of these 44 of them are pending, and the majority are for ditch maintenance. There are also many larger drainage projects that have been identified. These projects will require funding, design, bidding, and construction as they are larger than our current resources can accomplish.

Current Maintenance Activities: Our current ditch maintenance consists of 3-4 employees, our gradall, dump truck, Vactor truck, and grade equipment. Prior to beginning the project, the drainage crew will evaluate the area and capture grades to plan the project. One employee will indicate the grade the ditch is to be cut, while assisting the operator in continuing to stay on the correct grade. There is a gradall operator that cuts the ditches to grade and loads the spoils into the dump truck. The dump truck driver then must haul off the spoils to our site behind the Wastewater Treatment facility. The same employees will return after the ditch maintenance is completed with the Vactor truck to clear all culverts in the maintenance area. In areas where there is roadway traffic, an additional employee is needed for flagging during partial lane closures.

Current Maintenance Status: There is approximately 431,650 feet (82 miles) of city-owned, open ditch drainage to be maintained. There are also 67,774 feet (13 miles) of culverts to be maintained. Based on drainage maintenance projects that have occurred recently, it is found that our crew can average 250 to 300 feet of drainage maintenance in a single day. It could possibly take 1,438 to 1,726 days to complete all drainage maintenance. As of the today 23,282 linear feet of ditch maintenance have been performed. As well as 256 culverts cleaned since October 2025.

Drainage Projects Completed:

1. Texian Trail - \$224,892.66
2. 819 E Wilkins \$31,820.00
3. Street Maintenance Projects – S Belle, Noreda, Hospital Drive/Downing - \$479,313.40
4. Richmond Street Project
5. Ridgecrest and Robinhood Street Project - \$1,683,380.00
6. San Felipe and Chevy Chase Street Project - \$1,519,185.90
7. Miller/Parrish Improvements - \$160,822.00
8. Parrish and Silver Saddle – Currently Ongoing - \$2,861,267.24

Drainage Projects Needed:

1. Meadowview Lane Drainage Improvements - \$170,684.50

This is a repair to an old concrete storm sewer outfall in Brushy Bayou. It appears that the movement in the ground has caused the joint to open and is causing a sinkhole above the pipe from soil intrusion into the drainage system.

2. Laurie Lane Drainage Improvements \$87,128.75

This is a re-grading and culvert cleaning project to increase capacity in the existing ditch. Elevations must be verified at the culvert at SH 288B and at the railroad crossing to ensure that the existing ditch can be lowered.

3. Northview Dr Drainage Improvement - \$61,226.00

The roadway's crown has settled causing water to spread outside of the gutter line onto the street. The existing drainage swale has silted in and requires re-grading. Two options have been provided. Option 1 – is to remove and replace a portion of the existing roadway to reestablish the crown of the roadway and Option 2 – Is to use Uretek to slab jack the existing paving to reestablish the crow of the paving. Ditch regrading will occur on both options.

4. Rayburn Ridge - \$3,018,847.00

This project will require a new outfall beginning at Brushy Bayou to provide the required depth to extend a drainage system to the intersection of Rayburn and Richland. Beginning with a new outfall, new culverts and inlets will be installed in the existing ditch along Hospital Dr. The proposed storm sewer will turn south on Rayburn Ridge and continue to Richland Circle. Asphalt roadway point repairs and curb replacement will be required on Rayburn Ridge to install the new drainage system.

5. N. Remmington Dr. \$588,100.00

This project is to reduce normal maintenance of an existing ditch by installing slope paving.

6. Mimosa Drainage - \$75,000.00

Replace an existing drainage line that has deteriorated. Also replacing the drainage inlet and a portion of the roadway.

Molina Dr Drainage Repair

Replace an existing drainage line that has deteriorated. Also replacing the drainage inlet and a portion of the roadway.

7. Chenango (City Alley) - \$25,000.00

Install 4 inlets and approximately 250 linear feet of pvc piping to assist with drainage in the alley behind city hall.

8. Manor St

Slope paving replacement due to erosion.

9. Evans St

10. E Cedar 1400 Block

Repair of large drainage box culverts and concrete replacement on disturbed driveway.

11. La Laja

12. Betty Street

13. 800 Block Plantation Street

14. City of Angleton South Anderson Property

Repair/replacement of drainage line.

15. Chenango Drainage Project - \$15,000,000.00

HDR conducted drainage study for this area. Large scale drainage project to improve a major area.

16. Downing Drainage Project - \$15,000,000.00

HDR conducted drainage study for this area. Large scale drainage project to improve a major area.

17. Contracted Ditch Maintenance

This option would be to hire a contractor for ditch maintenance. This would include the re-grading of ditches and cleaning out the culverts. We have had previous costs of this of \$4.25 per linear foot of re-grading, and \$250.00 per culvert cleaning.