

# Capital Improvement Plan

2022 *thru* 2024

## City of Corpus Christi, Texas

**Project #** E13068  
**Project Name** Mary Rhodes Pipeline Cathodic Protection Upgrade



**Type** Improvement/Additions  
**Useful Life** 40 years  
**Category** Water Supply  
**Department** Water Supply  
**Contact** Director of Water Utilities  
**Priority** 1 Critical-Health & Safety

**Status** Active

### Description

Cathodic protection is necessary to protect buried pipeline from corrosion. The cathodic protection system for Mary Rhodes Pipeline Phase 1 was installed in 1990s, and is close to end of its service life. This project includes installation of 6 new test stations with zinc anode ground beds, installation of zinc anodes at 15 existing test stations, and removal and replacement of portions of test station components at 126 existing test stations.

### Justification

Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan  
 This project will improve service life of Mary Rhodes Pipeline Phase 1 and accordingly reduce future operational and maintenance costs.

| Expenditures              | Prior Years    | 2022           | 2023           | 2024 | Total            |
|---------------------------|----------------|----------------|----------------|------|------------------|
| Construction/Rehab        | 580,700        |                | 550,000        |      | 1,130,700        |
| Inspection                | 25,526         | 25,000         | 50,000         |      | 100,526          |
| Design                    | 182,000        | 200,000        |                |      | 382,000          |
| Contingency               |                |                | 50,000         |      | 50,000           |
| Eng, Admin Reimbursements | 50,320         | 25,000         | 50,000         |      | 125,320          |
| <b>Total</b>              | <b>838,546</b> | <b>250,000</b> | <b>700,000</b> |      | <b>1,788,546</b> |

| Funding Sources | Prior Years    | 2022           | 2023           | 2024 | Total            |
|-----------------|----------------|----------------|----------------|------|------------------|
| Revenue Bonds   | 838,546        | 250,000        | 700,000        |      | 1,788,546        |
| <b>Total</b>    | <b>838,546</b> | <b>250,000</b> | <b>700,000</b> |      | <b>1,788,546</b> |

### Budget Impact/Other

This project will improve service life of Mary Rhodes Pipeline Phase 1 and accordingly reduce future operational and maintenance costs.