

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Western Area Resiliency - Rt 28 Bypass  
**CIP Number:** WAT-183  
**JDE Number(s):** Not Assigned  
**Location:** FW Supply at Rt.28 to Unity Reed BPS  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Master Plan/PER  
**Estimate By:** Engineering and Planning Division

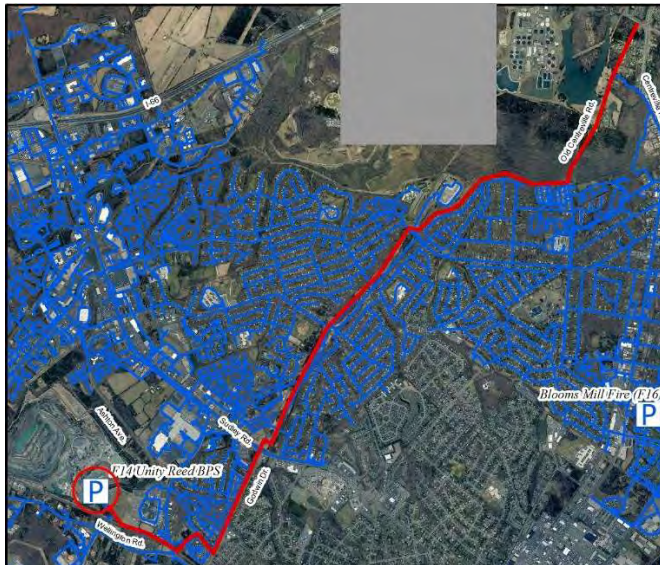
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of approximately 26,000 feet of 42-inch water main from Rt. 28 in Fairfax County to the Unity Reed Booster Pumping Station. This project was recommended in the Master Plan as part of the redundancy/resiliency elements of the Levels of Service to mitigate the current single point of failure for the 42” transmission main that delivers water for the Western water system. The first phase consisting of about 19,000 feet, will be designed and constructed in conjunction with the proposed Route 28 Bypass road project from Rt. 28 near Ordway Road in Fairfax County to the intersection of Sudley Road and Godwin Road in Prince William County. The second phase consisting of about 7,000 feet, will continue the 42-inch water main from Sudley Road to the Unity Reed BPS.

**Project Benefit:** This project will provide redundancy to the SA’s Western Distribution System, enable the future rehabilitation of the existing 42-inch PCCP water main, and allow the new main to be operated at a higher gradient to bypass the Unity Reed BPS under certain demand and emergency conditions.

**Source Derivation:** B&C Master Plan, 2022; Managed by the Engineering and Planning Division.

**PROJECT PICTURE**



**PROJECT FUNDING**

| PRE-FY24 | FY24 | FY25 | FY26 | FY27  | FY28  | POST- FY28 | TOTAL        |
|----------|------|------|------|-------|-------|------------|--------------|
| 0        | 500  | 500  | 7500 | 14000 | 14000 | 4325       | <b>40825</b> |

| Proposed Funding Sources                   |             |
|--|-------------|
| Exp. Fund (02) – Availability Fees         | 50%         |
| Commit. Fund (03) – Availability Fees      | -           |
| Repl. Fund (04) – User Rates               | 50%         |
| Other Contrib. – Development Contributions | -           |
| <b>PROJECT TOTAL</b>                       | <b>100%</b> |