

## **Jennifer Prettel, P.E., P.M.P.**

*Senior Project Manager*

### **Education**

B.S. – Civil Engineering, Florida  
Atlantic University, 2010

### **Registration**

Professional Engineer: Florida  
(License No: 80377)

Project Manager Professional:  
(Credential No: 1873507)

Certified NASSCO PACP, MACP, LACP

Jennifer Prettel is a civil / environmental engineer experienced in the design of water distribution systems, wastewater collection and transmission systems, water reuse systems, hydraulic modeling, ArcGIS, asset management, water supply projects, sanitary sewer evaluation surveys, management consulting, construction contract procurement and management, bidding assistance and permitting.

### **MASTERPLANS**

**Project Engineer, Water and Wastewater Masterplan, Palm Beach County Water Utilities, Florida.** This project provided the creation of the initial Water and Wastewater Masterplan for the Palm Beach County Water Utilities Department. The Masterplan summarized the existing conditions of the water and wastewater system, created hydraulic models for both the water distribution and wastewater collection systems and prioritized improvements for the water supply, water treatment, water distribution and wastewater collection systems.

**Project Manager, Glades Region Water and Wastewater Masterplan, Palm Beach County Water Utilities, Florida.** This project provided the creation of the initial Water and Wastewater Masterplan for the municipalities of South Bay, Belle Glade and Pahokee. The Masterplan summarized the existing conditions of the water and wastewater system, created hydraulic models for both the water distribution and wastewater collection systems and prioritized improvements for the water supply, water treatment, water distribution and wastewater collection systems.

### **WATER DISTRIBUTION AND TRANSMISSION SYSTEMS**

**Project Manager, Water Distribution System Improvements, Palm Beach County Water Utilities Department, Florida.** This project included the design, permitting and bidding for the abandonment and replacement of approximately 72,000 linear feet of water mains and the relocation and replacement of approximately 1,000 water service meters throughout the Palm Beach County Water Utilities Department service area.

**Project Manager, South County Water Services Replacement Phase 4 and Phase 5, Palm Beach County Water Utilities Department, Florida.** This project included the design, permitting and bidding for the abandonment and replacement of approximately 29,000 linear feet of water main and the relocation and replacement of approximately 600 water service meters in the southeast portion of the Palm Beach County Water Utilities Department service area.

**Project Manager, Water Main Improvements, Palm Beach County Water Utilities Department, Florida.** This project included the design, permitting and bidding for 16,000 LF of water main throughout the eastern portion of Palm Beach County Water Utilities Department service area to improve system capacity, improve hydraulic efficiencies, eliminate dead ends,

and decrease water retention time in the distribution system, resulting in improved water quality.

**Project Manager, Century Village Water Valve Prioritization Plan, Palm Beach County Water Utilities Department, Florida.** This project included a prioritization process through a risk-based analysis for developing a five-year plan to install valves within the entire water distribution system in the Century Village Community. The goal of the valve installation program was to minimize the number of customers that experience a disruption in water service when repairs are performed.

**Design Engineer, Reclaimed Water Main Extension, Palm Beach County Water Utilities Department, Florida.** This project included the design and permitting of 1,200 LF of 20-inch reclaimed water main along Atlantic Avenue from Hagen Rand Road to Florida's Turnpike to provide reclaimed water to a new development in Delray Beach.

**Design Engineer, State Road 715 Water Main Replacement, Palm Beach County Water Utilities Department, Florida.** This project included the design and permitting of 13,800 LF of 12-inch water main along State Road 715 in the City of Pahokee.

**Design Engineer, Bayhill Estate PUD Special Assessment, Palm Beach County Water Utilities Department, Florida.** This project included the design and permitting for the water distribution system within Bayhill Estates community in Palm Beach County. It consisted of 24,500 LF of water main, 38 fire hydrants and 250 water services.

**Design Engineer, LWDD E-3 Canal Water Main Replacement, Palm Beach County Water Utilities Department, Florida.** This project included the design and permitting for 2600 LF of 8-inch water main along the LWDD E-3 canal. It also included the removal of an existing 8-inch asbestos cement water main along the canal.

#### **WATER SUPPLY**

**Hydraulic Modeler, Raw Water Well Field Model, Palm Beach County Water Utilities, Florida.** This project included the creation of the hydraulic models for the well field of all water treatment facilities owned and operated by Palm Beach County Water Utilities Department.

#### **WASTEWATER COLLECTION AND TRANSMISSION SYSTEMS**

**Project Manager, Palm Beach County Collection System Rehabilitation Project, Palm Beach County Water Utilities Department, Florida.** This project included identifying and quantifying sanitary sewer system asset risks, perform asset condition assessments, and prioritize and design rehabilitation or replacement of the assets over the next 10 fiscal years.

**Project Manager, Sanitary Sewer Lining Project, Palm Beach County Water Utilities Department, Florida.** This project included the execution and management of contract for performing rehabilitation of 40,000 LF of gravity pipeline and 220 manholes located in Boca Raton. The work included gravity sewer line tv inspections, manhole inspections, rehabilitation and installation of manholes, gravity sewer lining, point repairs and later sewer replacements.

**Project Manager, Sanitary Sewer Lining Project, Palm Beach County Water Utilities Department, Florida.** This project included the execution and management of contract for performing rehabilitation of 17,000 LF of gravity pipeline and 110 manholes located in Royal

Palm Beach. The work included gravity sewer line tv inspections, manhole inspections, rehabilitation and installation of manholes, gravity sewer lining, point repairs and later sewer replacements.

**Project Manager, Belle Glade I&I Improvements, Palm Beach County Water Utilities Department, Florida.** This project included the execution and management of contract for performing gravity sewer line tv inspections, manhole inspections, rehabilitation and installation of manholes, smoke testing, gravity sewer lining, point repairs and later sewer replacements in the City of Belle Glade.

**Design Engineer, Western Force Main By-Pass and Water Main Improvements, Palm Beach County Water Utilities Department, Florida.** This project included the design and permitting of 12,700 LF of 30-inch force main, 2,200 LF of 16-inch water main including an aerial crossing, 1,600 LF of 12-inch water main, and 230 LF of 48" jack and bore steel casing with 30-inch force main

**Design Engineer, 10<sup>th</sup> Avenue North Gravity Sewer, Palm Beach County Water Utilities Department, Florida.** The project included the design of 427 LF of 8-inch gravity sewer main, three manholes, and five sewer services and a connection to existing manholes in the City of Greenacres.

**Design Engineer, Force Main Extension at St. Mathews Church, Palm Beach County Water Utilities Department, Florida.** The project included the design and permitting for 610 LF of 12-inch force main from Ranches Road to the LWDD L-18 Canal.

#### **HYDRAULIC MODELING:**

**Hydraulic Modeler, South County Reclaimed System Hydraulic Analysis, Palm Beach County Water Utilities Department, Florida.** This project included creating the reclaimed hydraulic model for Palm Beach County Water Utilities Department to serve a portion of the demand to nine golf courses in the South County area with 10 MGD of reclaimed water from Broward County Utilities.

**Hydraulic Modeler, Potable Water Hydraulic Model, Palm Beach County Water Utilities Department, Florida.** This project included creating the potable water hydraulic model for Palm Beach County Water Utilities Department. The model consisted of approximately 70,000 pipes, and 30,500 junctions. It included all water treatment plants with storage tanks and high services pump, demand allocations, calibration, diurnal curves, fire flow and water age analysis.

**Hydraulic Modeler, Wastewater Hydraulic Model, Palm Beach County Water Utilities Department, Florida.** This project included creating the wastewater hydraulic model for Palm Beach County Water Utilities Department. The model includes elements representing the network of master pump stations, lift stations and pressurized force mains. The model elements include 2000 pipes, 1,700 junctions, 25 pumps, 655 lift stations without pumps, and two reservoirs.

**Hydraulic Modeler, Raw Water Well Field Model, Palm Beach County Water Utilities, Florida.** This project included the creation of the hydraulic models for the well field of all water treatment facilities owned and operated by Palm Beach County Water Utilities Department.

## Professional Activities

American Water Works Association (AWWA)

American Society of Civil Engineers (ASCE)

## Professional History

**2019 to Date** C Solutions Inc. – Fort Lauderdale, Florida

**2009 to 2019** Palm Beach County Water Utilities Department. – West Palm Beach, Florida