



## **FIRM PROFILE**

**CAPTEC Engineering, Inc.**, located in Stuart, Florida, is a Civil Engineering Firm that has been providing services to local Municipalities for the past 22+ years. Presently our staff includes 16 professional individuals with a wide variety of civil engineering experience, which includes Master Planning, Final Engineering Design, Permitting, Bid Assistance, Contract set-up, Construction Engineering Inspection (CEI) Services/ Post Design and Expert Witness Services. Our staff members live on the Treasure Coast; therefore, we are personally and professionally aware of the current and future infrastructure and service needs of the local Communities.

### **EXPERIENCE**

CAPTEC is a full-service Civil Engineering Firm with both design and construction engineering inspection experience in roadway, stormwater management system/ stormwater master planning, water distribution system, wastewater system, reclaimed water distribution system, pedestrian and streetscape improvements and utility projects such as sidewalks, bike lanes and multi-modal pathways, bridges, signals, stormwater retrofits, traffic calming and water/sewer expansions. Our staff has well over 30 years of experience in South Florida and are well versed in the latest City/ County (Engineering / Utility), Regulatory (SFWMD / ACOE/ FDEP) and FDOT criteria.

CAPTEC has completed many planning and design projects for St. Lucie County, the City of Fort Pierce, the City of Port St. Lucie and the surrounding Municipalities. Our expert knowledge of County, City, Regulatory and FDOT specifications and contractual requirements, have benefited the Cities and local Municipalities in avoiding additional project costs. CAPTEC has been involved with obtaining millions of dollars in grants for Public Entities. CAPTEC is known for its Stormwater Management Design and Permitting on the Treasure Coast. We have modeled and designed Stormwater Retrofits for most of the outfalls in the City of Port St. Lucie and Martin County. We have inventory of all the Drainage Basins in Port St. Lucie. We have worked for the City of Port St. Lucie Community Development District's (CDD) and Special Assessment District's (SAD).

### **CAPTEC TEAM PROJECT MANAGERS AND CURRENT STAFF**

The CAPTEC staff includes over 16 Professional personnel. CAPTEC's current staff includes: Mr. Joseph W. Capra, PE, President/ Quality Control Manager; Mr. Harold Tourjee, Sr. Project Design Manager; Mr. Gary Jones, PE, Director of Construction Services/ Constructability Review; Mr. Steven Marquart, PE, Sr. Project Engineer; Mrs. Teresa Andre , PE, Sr. Project Engineer; Mr. Dylan O'Berry, EI, Project Design Engineer, Mr. TJ Shaw, EI, Project Design Engineer and our support staff that provides Design, Calculations, CADD Assistance and Grant Administrative Services.

### **CERTIFIED**

CAPTEC staff is registered and certified in all the necessary FDOT Design categories. We have administered many Local Agency Programs (LAP) for Martin County and the City of Port St. Lucie. The CAPTEC staff are FDOT prequalified in the following: Minor Highway Design, Signing,

Pavement Marking and Channelization, Signalization, Roadway Construction Engineering Inspection Services and Land Planning/Engineering. CAPTEC has designed many **Stormwater Management/ Master Planning** projects utilizing the City of Port St. Lucie and SFWMD requirements. We have provided extensive permitting services with the North St. Lucie River Water Control District, Fort Pierce Farms Water Control District, South Florida Water Management District, Florida Department of Transportation, Florida Department of Environmental Protection and the U.S. Army Corps of Engineers. CAPTEC has modeled and analyzed most Drainage Basins for the City of Port St. Lucie, within St. Lucie County, which included: Eastern Watershed Improvement Project (EWIP) and Central Watershed Improvement Project (CWIP). CAPTEC completed the two (2) County models (Martin/ St. Lucie Counties) which is an analysis of the Savanna State Park Drainage Basin, which extends from Fort Pierce in St. Lucie County to Rio in Martin County. This is the Savannas Regional Restoration Project. CAPTEC has a Small Business Enterprise (SBE) Certification with the SFWMD. Our office maintains "State of the Art" Computer hardware and Software. We have our own Water Quality Monitoring Equipment and we maintain Traffic Velocity/ Volume Capacity measuring devices to help inventory Roads/ Intersections, which help in the justification of our Roadway Roundabouts and other Traffic Calming Devices.

CAPTEC has completed many **Thoroughfare/ Roadway** widening, intersection improvements, signal and sidewalk projects for the City of Port St. Lucie and other local Municipalities, in compliance with the FDOT/ County requirements to include: Becker Road Widening/ Citrus Blvd./ Palm City Corridor; Tradition Roadway/ Renewal project; Crosstown Parkway extension; Colorado Avenue improvements; MacArthur Boulevard Emergency Roadway/Dune/Utility Restoration, Willoughby Boulevard Extension and Green River Parkway. Also, CAPTEC has completed many **roadway projects** within the Tradition Community Development District to include; Community Blvd, Westcliffe Lane, Village Parkway, Platt 11, Plat 23, Plat 24, Discovery Way, Village/Crosstown Parkway and Tradition Square.

Our weekly staff meetings review projects internally with various Engineers to consider alternative options to improve projects. In addition, CAPTEC documents all meetings and regularly has team meetings with our Clients. We efficiently have meetings, either in conference calls or on the site. Our projects are regularly Quality Controlled to be sure they are completed on-time and within-the-budget. We also listen to all Contractors during the bidding process to Value Engineer projects. When the bidding process is complete, CAPTEC produces an "Approval for Construction" set of plans that reflects the best design possible and whereby construction is completed at the most efficient cost. Our inventory of many projects (Roadway/ Stormwater/ Utility Improvements) that are currently under Bid and Construction help us provide accurate cost estimating data from the inception to the Certification of Completion of the project.



## RELEVANT PROJECTS

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**Client** Tradition Community Development District No. 1  
**Contact Info** Darren Weimer, PE, Project Manager (772) 340-3500  
**Address** 10490 SW Village Center Drive, Port St. Lucie, FL 34987  
**E-mail Address** [dweimer@tradition.fl.com](mailto:dweimer@tradition.fl.com)  
**Roadway project:** Tradition Subdivision Roadway Renewal Improvements/ Turnover Project:

Provided design plans and construction engineering inspections services for inventory of Infrastructure and then completion of the corrections of life safety issues, milling, resurfacing, and restoration of roadway striping for four roadways within the Tradition Development, including Village Parkway, Community Blvd., Westcliffe Lane, and Tradition Parkway. Services included adjustments to curbing, installation of edge-drains, relocation of light poles to meet zone requirements, and relocation/ trimming of landscaping to meet Line of Sight requirements. Previously provided design, permitting, construction engineering inspection services for various arterial, collector, and subdivision roadway projects within the Tradition Subdivision, Port St. Lucie. The design improvements included roadway/ roundabouts, stormwater and utility adjustments. CEI services included coordination with Sub-Consultants, weekly meetings, coordination with Contractors/Subs, shop drawing review. Final certification was prepared upon completion of construction for individual roadways/plats and Tradition CDD coordination/submittal. Project dates: 2015 to 2018; Previous dates: 2008 to 2010.



**Total Project Cost** \$2 Million

**Consultant Fee:** \$400,000.00



## RELEVANT PROJECTS

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**Client**  
**Contact Info**  
**Address**  
**E-mail Address**  
**Stormwater**  
**Project:**

**City of Port St. Lucie Public Works Dept.**  
**John Dunton, PE, Project Manager (772) 344-4035**  
**121 SW Port St. Lucie Blvd., Port St. Lucie, FL 34984**  
**[jdunton@cityofpsl.com](mailto:jdunton@cityofpsl.com)**

**Eastern Watershed Improvement Project (EWIP):** The Eastern Watershed Improvement Project is a water quality and flood protection stormwater improvements for the Drainage Basin located in Eastern Port St. Lucie. The project included setting standards, developing a model for the 4,860 Acre Basin, developing alternative improvements, acquiring land, preparing construction plans, obtaining permits and assistance during construction. The project entailed review of 2 major Pump Station facilities, design of a major waterfall canal through sensitive FDEP Lands, creation of many lakes/Stormwater Treatment Areas (STA's) and developed a plan that reduced flooding for the Master Drainage System previously built during the construction of Port St. Lucie. The land and construction costs were \$32 million. CAPTEC assisted the City in obtaining \$1.5 million in construction grants for this work. CAPTEC completed a 6-month water quality monitoring program with equipment to report before/ after Nitrogen/ Phosphorus, etc. levels in the Retrofit. Project dates: 2008 to 2011.



**Total Project Cost** \$ 14 Million

**Consultant Fee:** \$1,160,000.00





## RELEVANT PROJECTS

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**Client**  
**Contact Info**  
**Address**  
**E-mail Address**  
**Roadway/  
Stormwater/  
Utility Project:**

**City of Port St. Lucie Engineering Dept.**  
**Patricia Roebling, PE, City Engineer (772) 871-5177**  
**121 SW Port St. Lucie Blvd., Port St. Lucie, FL 34984**

**[proebling@cityofpsl.com](mailto:proebling@cityofpsl.com)**

**East Lake Village Phase I & II and Mixed Use, Port St. Lucie, FL:** Prepared site design, permitting and construction plans/ CEI services for the overall 98-acre site; PUD Master Plan for residential lots consisting of site grading, water, sewer, drainage facilities, stormwater management and pavement design information. Systems were designed to tie in to the new master infrastructure systems constructed in Hillmoor Drive, Grand Drive, Lennard Road and Jennings Road area. This included 95 single family residences, 407 multi-family units, 70,000 s.f. office / retail commercial building, and a 288-seat restaurant; site design, permitting, and construction administration services for roadway, drainage, and water / sewer construction. This project required permits with the City of Port St. Lucie, SFWMD, ACOE and various Fish & Wildlife services were provided. The project included the creation of wetlands, a Greenway/ Blueway system and the Woodstork Trail. Project dates: 2011 to 2012



**Total Project Cost**      \$ 1.4 Million

Consultant Fee \$252,500.00



## RELEVANT PROJECTS

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**Client** City of Port St. Lucie Engineering Dept.  
**Contact Info** Patricia Roebling, PE, City Engineer (772) 871-5177  
**Address** 121 SW Port St. Lucie Blvd., Port St. Lucie, FL 34984  
**E-mail Address** [proebling@cityofpsl.com](mailto:proebling@cityofpsl.com)  
**Roadway Project:** **Becker Road Widening:** Provided design and Permitting for this 3.6 mile major arterial project. The project included creating a gateway atmosphere/ complete street design for this section of roadway that connects recently constructed interchanges at Florida's Turnpike and Interstate 95. Roadway design services included widening from a 2-Lane Rural Undivided Roadway to a 4-Lane Divided Urban Arterial. Extensive modifications were required to existing utility lines. Permitting was obtained from SFWMD, ACOE, FWCC & FDEP. Design included 5 new Signalized Intersections and Pedestrian/ Street lighting along the entire corridor. Stormwater improvements included addition/ expansion of 10 Stormwater Detention Ponds. The project was constructed in 4 Segments and the improvements included sidewalk installation. Project dates: 2010 to 2013.



**Total Project Cost** \$ 26 Million

**Consultant Fee:** \$1,885,000.00

### **City of Port St. Lucie Public Works projects:**

CAPTEC has completed numerous Retrofits to both Roadway/ Stormwater and Water and Sewer Facilities within these projects. CAPTEC inventoried the facilities and then provided recommendations to upgrade the infrastructure to meet current codes/ requirements. CAPTEC quantified capacities of the facility - Stormwater/ Roadway and Utilities. Then we reviewed the expected future demands on these facilities and recommended improvements with cost estimates. In most cases, the reports were prepared to help the CITY obtain future funding. These projects included the CWIP project, the Stormwater Master Plan for Port St. Lucie/ the Local Mitigation Strategy (LMS) list, the North St Lucie Drainage Improvements and the Watershed A and B studies.





## RELEVANT PROJECTS

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### **Martin County projects:**

CAPTEC completed a master inventory of the Water and Sewer Facilities at the Whitham Field Airport and prepared the cost to retrofit the facility to upgrade the water and sewer capacity for the future. This project included Design/ Permitting and Construction Administration Services. In addition, CAPTEC completed an inventory of 24 water front Communities throughout Martin County to retrofit the existing homes from Septic Tanks to Regional Sanitary Sewer Service. This plan included cost estimating and is the basis for the current Martin County Utility 25-year Master Plan for Sewer conversion.

CAPTEC has completed over 30 multi-million Dollar Community Stormwater Retrofits that included inventory of the systems/ analysis / prepare improvement Plans/ Cost Estimates/ prepare Final Designs/ Permitting / Bidding and the Construction Administration Services. In all the retrofit projects, our research includes field reconnaissance /reviewing permit files and meeting with regulatory agencies and utility companies.

As the Town of Sewall's Point Engineer since 1988, Joseph Capra, PE, has completed many Master Plans to address Roadways/ Sidewalks/ Bike paths / Signage / Lighting/ Parks. Currently, CAPTEC is completing an inventory and plan recommendations for these same facilities for the Indian Trail Improvement District - 298 District with a land area the size of the City of West Palm Beach. These facilities are located in western Palm Beach County.

### **Other Relative Projects:**

**City of Port St. Lucie Roadway Projects:** Bayshore Boulevard Widening; Lennard Road Improvements; California Blvd. & University Blvd. Intersection Improvements; Crosstown Parkway Extension; Torino Blvd. & California Blvd. Roundabout Improvements; Bayshore Blvd. & Selvitz Road Intersection Improvements

**City of Port St. Lucie Stormwater Projects:** Central Watershed Improvement Project (CWIP); Stormwater Master Plan; E-8 Waterway Water Quality Retrofit; North St. Lucie Drainage Improvements; Local Mitigation Strategy (LMS); Watershed A & B; McCarty Ranch Water Quality Restoration; Platts Creek Mitigation & Water Quality Monitoring; Sagamore Basin STA

**City of Stuart Roadway Projects:** Colorado Avenue Improvements; Kindred Street & Johnson Avenue Improvements; East Ocean Blvd. Traffic Calming

**City of Stuart Utility Projects:** I.Q. Main Extension

**Martin County Roadway Projects:** Western Palm City Corridor/ Citrus Blvd.; Green River Parkway Improvements; Indian River Drive Improvements; Willoughby Boulevard Extension; MacArthur Blvd. Restoration; Mapp Road Improvements

**Martin County Stormwater Projects:** Savannas Preserve Regional Restoration; Warner Creek Retrofit; Willoughby Creek Improvements; Tropical Farms Water Quality Retrofit; All American Ditch; Old Palm City Neighborhood Improvements