

**EDUCATION:**

Bachelor of Science  
Civil Engineering  
Florida Atlantic University

**REGISTRATIONS:**

Florida Engineer Intern  
No. 1100023566

**AFFILIATIONS:**

Florida Section American Council of  
Engineering Companies

**CONTACT INFORMATION:**

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**SUMMARY**

Mr. Lucco has 1 year of experience working on development projects in the public and private sector. He is developing his skills in all aspects of engineering design including roadway and parking lots, water systems, sewer collection and distribution systems, reclaimed water systems, stormwater management and drainage design, miscellaneous utility coordination, complete plan production, permitting, engineering cost estimate and construction administration and site inspection.

**EXPERIENCE**

**District 3C Water System Improvements, Broward County, FL** – The project features work in residential area and an FDOT road that seeks to provide improvements to an outdated water and sewer system that features undersized, obsolete, and decaying pipe. Thompson & Associates, inc. will primarily focus on the water system improvements, drainage redesign and restoration (need be), and roadway and residential area restoration. As a staff engineer the primary work involves preliminary design report formulation, system design, permitting, bidding assistance, and construction administration. This project is broken up into three bid-packs spanning the cities of Pembroke Pines and Hollywood, Florida. Design of bid pack #1 features approximately 8 and 2 miles of new 8" and 16" Ductile Iron Pipe Water Main, respectively, over 100 new fire hydrants, and over 500 single and double water services. The estimated construction cost of this project for the water distribution and roadway restoration alone is \$18,000,000.

**MD-WASD Pump Station 382 Proposed 8-inch Force Main, Miami Dade County, Florida** - Our firm was tasked with designing a new 8" ductile iron force main that would accompany the rehabilitation of Pump Station 382 in Miami-Dade County. The goal is to effectively connect over a quarter of miles worth of 8" Force Main from the newly redesigned Pump Station 382 to an existing 12" Force Main on NW 170<sup>th</sup> Street. We will provide site investigations, utility coordination, topographic survey, geotechnical investigation, develop construction documents (plans and specifications), permitting, and support services during bidding and construction. The estimated construction cost is approximately \$500,000.



**Broward County Easterlin Park Campground Water and Sewer System Upgrades, Broward County, Florida** – Our firm provided design, permitting, and construction services for the water and sewer update/expansion in the park. The updates include valve additions and replacements at the request of the county; the expansion included installing services to RV parking sites that did not have water and sewer access. After the design was approved and permitted, construction inspection services were provided throughout. We worked with the contractor to ensure that all construction was done adequately and efficiently, and that any necessary changes dictated by unforeseen field conditions were made to facilitate their operation.

**UAZ 123 Construction Inspection of Water and Wastewater System Replacement, Broward County, Florida** – Thompson & Associates, inc. is providing construction inspection services for the water and wastewater updates currently occurring within Utility Analysis Zone 123 located in the city of Lauderdale Lakes, FL. Over 6 Miles of Ductile Iron Pipe Water Main, 1 Mile of Ductile Iron Pipe Force Main, and 5 Miles of PVC Gravity Line are being installed to update an outdated system. Our work consists of meticulously documenting the daily activities and quantities of work performed by the contractor, providing information to the contractor, engineer, or the county at their request, and acting as a communication vehicle for all parties involved, including the people who live in the community. Additional work involves being present for pressure and water quality tests, system flushing's, and communicating with the contractor/foremen on the state of the project site and the need for dust and debris control. As inspectors, our priority is to work hand in hand with the contractor to execute the construction of this project as efficiently as possible to satisfy our client, and to accommodate to the community members and the city at their request while construction occurs.

**UAZ 108 Water Main Replacement, Broward County, Florida** – This project includes over 7 miles of water main and 570 water service connections. Thompson & Associates, Inc. scope included the modeling (InfoWater) of the existing and proposed system, design, and permitting. The project is within an existing neighborhood therefore the model considered water pressures, water age, as well as fire flows through the community. The customers were primarily single family residential, however approximately 5% of the properties serviced had commercial uses. Multiple pipe scenarios were evaluated to establish the ideal pipe sizes within the system. The final design combines multiple pipe sizes to balance performance, service, and efficiency for BCWWS. The estimated construction cost for the project is approximately \$ 12 million.

**Broward County Regional Reclaimed Water Transmission Main, Broward County, Florida** - As a staff engineer assisting on the construction administration of the project, the work primarily focused on performing design changes and providing quantities at the request of the project manager. Work performed includes the creation of exhibits to accommodate the request to rehabilitate mountain bike trails within Quiet Waters Park by utilizing dirt displaced by the pipe during installation along Pembroke Road and inside the park to make berms that will provide elevation changes along the trails. The exhibits that were created displayed the location and corresponding volume of each berm. The project was composed of two bid packs; Bid Pack 1 had approximately 5 miles of a 42" DIP pipe and Bid Pack 2 had approximately 6 miles of 24" DIP pipe. The estimated construction cost for the project is around \$35 million.