

Ben Molenaar

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I retired in 2016 from Atkins North America, formerly PBS&J, and started Ben Molenaar Consulting. I specialize in constructability reviews, plan reviews, claim analysis and Disputes Review Boards. Currently I am working for the Hillsborough County Express Way authority as a technical advisor for the Design Build West Extension of the Leroy Selmon Expressway Project. I have 44 years of experience in the construction service industry of which 38 years were spent on Florida Department of Transportation (FDOT) projects. My extensive experience includes a broad range of construction phase service assignments on complex, award-winning transportation projects. I am well recognized throughout the industry for my proactive approach to problem solving. I am very good at identifying potential constructability issues in the plans, so they can be addressed early, as well as solving issues in the field. I have performed constructability reviews for many FDOT projects, including: the Crosstown Connector, I-4/I-275 Downtown Interchange (DTI), I-275 Reconstruction Links 2A and 2B projects, and I-75 widening Projects. My proactive approach to his work has resulted in substantial client savings: The constructability review on the I-4/I-275 DTI project produced \$1.5 million in savings for District Seven. I have also extensive experience in the evaluation, mitigation and review of construction claims.

My project experience includes:

Atkins North America

I-75 (Segment 3) Widening Project from the Pasco/Hernando County Line to South of SR 50, Florida Dept. of Transportation, District Seven, Hernando County, FL. I served as the Project Administrator for the I-75 Widening project from the Pasco/Hernando County Line to South of SR-50. Work consisted of widening 5.5 miles of high-profile interstate to include utility relocation, asphalt paving, intelligent transportation system (ITS) installation, drainage pipe installations, and pond construction. More notably, this project consisted of environmentally sensitive work zones, complex maintenance of traffic (MOT), coordination with adjacent road projects, and working with multiple jurisdictional agencies. **Construction value:** \$35 million. **Client contact:** Tom Lay, Project Manager, 813.242.2454.

Atkins North America

I-75 Widening from South of Fowler Avenue to SR 56, Florida Department of Transportation (FDOT) District Seven, Hillsborough and Pasco Counties, FL. Served as the Project Administrator for the I-75 widening project from Fowler Avenue to SR 56. Work consisted of the widening 11.5 miles of high-profile interstate to include three interchanges, widening of 16 existing bridges, and construction of three new bridges. Bridge work involves concrete pile foundations, Florida I-beams, and barrier wall construction. Work also includes mechanically stabilized earth (MSE) wall and soundwall construction, utility relocation, asphalt paving, highway lighting, signing and intelligent transportation system (ITS) installation, extremely deep drainage pipe installations, and pond construction. More notably, this project consisted of environmentally sensitive work zones, complex maintenance of traffic (MOT) and detour operations, coordination with adjacent road

Education

B.S., Civil Engineering, Hendrick De Keyser College, Netherlands, 1975

A.S., Civil Engineering, Middlebaar Technical School, 1970

Certifications

Training Identification Number: M456063502210

CTQP Final Estimates Levels I and II

CTQP QC Manager

IMSA Work Zone Safety Specialist

ATSSA Florida Advanced Maintenance of Traffic

FDEP Qualified Storm Water Management Inspector

Troxler Nuclear Density Gauge Safety Training Certification

Professional Affiliations

DRB Foundation Member

Professional Development

FDOT, E&O Training

FDOT Partnering Conference

FDOT Critical Structures Construction Issues, 2013 Update

projects, and working with multiple jurisdictional agencies. **Construction value:** \$100 million. **Client contact:** Tom Lay, Project Manager, 813.242.2454.

PBS&J

SR 686 Project, Florida Department of Transportation (FDOT) District Seven, Pinellas County, FL. Project Administrator for the construction of the SR 686 Connector from I-275 northbound to 118th Avenue westbound. Work consisted of a bridge and ramp widening over I-275 northbound and two new bridges over Roosevelt Boulevard and 118th Avenue. Bridge construction included driven piling and drilled shaft foundations, mechanically stabilized earth (MSE) walls, and pre-stressed Florida I-Beams. The project also included roadway widening, milling and resurfacing, drainage improvements, lighting, traffic signals, and intelligent transportation system (ITS) work. **Construction value:** \$31 million. **Client contact:** Duane Aldrich, Project Manager, 813.242.2453.

PBS&J

I-4 Weigh-in-Motion (WIM) Stations, Florida Department of Transportation (FDOT) District Seven, Hillsborough County, FL. Project Administrator for the I-4 WIM project. Work consisted of interstate widening, construction of concrete pavement for frontage roads, and two WIM stations along I-4 that services eastbound and westbound I-4 truck traffic. Construction of the WIM stations also included a 6-acre planted mitigation area, as well as the removal of two existing truck scale stations. Both complexes contain scale houses, administration offices, driver's rest facilities, and inspection barns. **Construction value:** \$34.5 million. **Client contact:** Tom Lay, Project Manager, 813.242.2454.

PBS&J

I-4/I-275 Down Town Interchange Safety and Operational Improvements, Florida Department of Transportation (FDOT) District Seven, Tampa, FL. Project Administrator for the I-4/I-275 DTI project. Work included widening 18 existing bridges and constructing eight new bridges. Bridge work consisted of drilled shaft foundations with concrete and curved steel superstructures, architectural MSE, and concrete soundwall construction. Work also included utility relocation, concrete pavement rehabilitation, drainage and pond construction, highway lighting and signing, and extensive landscape and hardscape features. **Construction value:** \$82 million. **Client contact:** Richard Frank, Project Manager, 813.242.2466.

PBS&J

I-4, Segment 1, Florida Department of Transportation (FDOT) District Seven, Hillsborough County, FL. Project Engineer for the I-4, Segment 1, widening project. Work consisted of 5 miles of I-4 widening, including four major intersections and construction of 12 bridges. **Construction value:** \$75 million. **Client contact:** Brian McKishnie, 813.975.6000.

PBS&J

Gandy Bridge Replacement, Florida Department of Transportation (FDOT) District Seven, Tampa, FL. Served as Project Engineer for the Gandy Bridge Replacement project in Tampa. Work consisted of a 2.6-mile-long bridge, founded on 48-, 72-, and 84-inch drilled shafts, with a simple-span modified Florida Bulb-Tee beam superstructure. **Construction value:** \$32 million. **Client contact:** Brian McKishnie, 813.975.6000.

PBS&J

US 70/Outer Loop Interchange, North Carolina Department of Transportation (NCDOT), Raleigh, NC. Served as Project Engineer. Work consisted of a three-

level interchange with curved steel girder bridges and major road construction.
Construction value: \$22 million.

PBS&J

Bayside Bridge Project, Pinellas County, FL. Served as Senior Project Engineer for the Bayside Bridge project. This project consisted of twin 3.5-mile-long bridges founded on driven concrete piling, with superstructures consisting of Florida Bulb-Tee beams with cast-in-place decks, across Old Tampa Bay with major interchanges at both ends. Responsibilities included supervision and coordination of the inspection staff and contractor's activities during all phases of construction, contract administration, and evaluation of construction claims. **Construction value:** \$72 million. **Client contact:** Brian McKishnie, 813.975.6000.

PBS&J

I-595 (Package D/F, E, V), Florida Department of Transportation (FDOT) District Four, Fort Lauderdale, FL. Served as Senior Bridge Project Engineer. Work consisted of a three- and four-level interchange with a total of 13 bridges (steel box girders with cast-in-place decks) founded on driven concrete piling. Responsibilities included supervision of the inspection staff during construction, contract administration, and evaluation of construction claims. **Construction value:** \$120 million. **Client contact:** Patrick McCann, Project Manager, 954.777.4387.

PBS&J

I-595 (Package B), Florida Department of Transportation (FDOT) District Four, Fort Lauderdale, FL. Served as Project Engineer for the FDOT Package "B" within the I-595 project, which consisted of an 8- to 10-lane-wide, 1.5-mile-long viaduct constructed on 763 60- inch drilled shafts (installed with the wet slurry method) and included a major drilled shaft test load program. Responsibilities included supervision of the inspection staff during all phases of construction, contract administration, and evaluation of construction claims. **Construction value:** \$35 million. **Client contact:** Patrick McCann, Project Manager, 954.777.4387.

PBS&J

Florida Keys Bridge Replacement, Florida Department of Transportation (FDOT) District Six, Seven Mile Bridge, Monroe County, FL. As Assistant Project Engineer, I provided services for the construction of the Seven Mile Bridge, as part of the FDOT Florida Keys Bridge Replacement Program. Responsibilities included supervision of the drilled shaft installation, supervision and coordination of inspectors, and contract administration. **Construction value:** \$45 million.

Presentations

"I-4 Lessons Learned" ASCE Transportation 2000 Seminar, June, 2000.