

Project Start: May 2018
Project Completion: June 2020

















Old North States Chatham Park

New Water Resource Recovery Facility (WRRF) / Pittsboro, NC Project Size: \$28,000,000 / May 2018 - June 2020

Bowen teamed with McKim & Creed in an alternative delivery contract, supporting greenfield construction of a WRRF to support a 26,000 home planned unit development (PUD) in Pittsboro, NC. The team designed and built a state-of-the-art facility that will be used to teach operators and engineering students, and will educate the general public on wastewater recovery processes. Reclaim water from this facility will be used for toilet flushing and irrigation for the Chatham Park Development.

Project Challenges:

- Bowen conducted sitework at excavation depths of 30', while North Carolina recorded its wettest year on record, and through 2 hurricanes.
 The team battled against constant dewatering and mud handling throughout the project.
- Bowen installed extremely large duct banks and conduit routing in order to meet the design intent of having no exposed electrical runs.
- Bowen included Xypex Bio-San concrete admixture in lieu of concrete coatings for long term mitigation of H2S corrosion.

Bowen Resourceful:

 Bowen collaborated with McKim & Creed in a phased approach to achieve the project within schedule and budget.

Bowen Responsive:

 Bowen overcame the challenges of record rainfall, and mud challenges with additional manpower and equipment.

Bowen Results:

 Bowen provided the project on-time, meeting the development's needs, and providing a working education model of sustainable water re-use, wastewater treatment and plant architecture.

PROJECT SCOPE

- Site Work
- Civil/Concrete Work
- Underground Piping
- Structural Steel Erection
- Pre-Engineered Building(s)
- Equipment Setting
 - Mixers
 - Aerobic Diffusers
 - Glass Lined Steel Tanks
 - Hydroponic Plant Racks
 - UV Equipment
 - Submersible & Centrifugal Pumps
- Mechanical / Piping
- Architectural / Finishing Work

PROJECT SPECS

- 3,000 CY of concrete
- 55,000 SF of formwork
- 15,000 LF of piping
- 6 Buildings / Structures
- 8,000 SF of Building

PROJECT TEAM

 Bowen Contact: Tommy Lawlor 317.576.8764

• Engineer: McKim & Creed

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Technology: Kruger / Veolia

