

## *INTERNET SERVICE PROVIDER – Atlanta, Georgia*

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### DATA CENTER

**SCOPE** Design of a new 6,000 sq. ft. data center area within an existing four-story office building to consolidate the ISP's existing facility and improve the mechanical support systems and the stand-by power systems. The new systems must be expandable to support future data center growth on other floors in the building.



*Mechanical Contractor*  
B & W Mechanical, Inc

*Prime Consultant*  
Skanska

*Construction Cost*  
\$1,100,000 mechanical only

### **SPECIAL CIRCUMSTANCES**

Some of the highlights of the project include:

- Three 110-ton air-cooled chillers with provisions for a fourth to maintain N+1 redundancy of the chilled water supply as the facility expands.
- Three chilled water pump with provisions for a fourth.
- Chilled water distribution piping with provisions for expansion.
- Four custom downflow chilled water airhandlers sized to provide N+1 redundancy of the supply air serving the raised access floor.
- Modular airhandler to provide humidification and de-humidification of the data center space.
- A 6,000-gallon underground fuel tank serving two generators.
- Direct Digital Control (DDC) system for control and monitoring of the data center and mechanical systems.
- Ventilation system to comply with the latest Code requirements.



**Johnson, Spellman & Associates, Inc.**

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