

## INTRODUCTION

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The Mid-Atlantic Data Center 5 (MADC5), located in Ashburn, VA, is a 360,000 square foot, precast data center for DuPont Fabros Technology. The site is approximately 30 miles west of Washington, D.C. and just north of the Washington Dulles International Airport. This area has been hailed as the “Washington Dulles Technology Corridor” and according to TIME Magazine; it carries “more than half of all traffic on the internet. The region is home to more telecom and satellite companies than any other place on earth.”

The data center houses computer equipment rooms on raised access floor, administrative offices, facility support spaces, and facility infrastructure spaces with extremely intricate mechanical, electrical, and communication systems. In fact, the electrical design for the data center has been copyrighted due to its extremely efficient and state of the art design. The structure is a single-story precast shell structure with an electrical penthouse housing emergency generators to make the overall building two stories. Approximately 80% of the project is considered to be MEP related construction.

Holder Construction Company is the construction managing entity utilizing a CM-at-Risk delivery method for the construction of MADDC5. The overall project schedule has an expected duration of 14 months beginning in February 2008 and ending in April 2009 with an estimated budget set at \$170,916,000. Up until November 2008, the project was approximately 60% complete with 500 on-site personnel. Unfortunately, due to economical conditions and extenuating circumstances, the MADDC5 project was suspended until March 1, 2009. The project is now projected to be completed in June 2009.

Despite being a building that consumes a great deal of energy, a 12,795 ton mechanical cooling load and a 36.4MW total electrical critical load, MADDC5 is pursuing LEED Gold Certification at 40 points. Once certified, this will be the first LEED building for the owner, one of several LEED certified data centers constructed by Holder, and second LEED Gold data center in the country.