



## Facts and Figures

- **88K GSQFT one story, poured in place concrete structure**
  - Designed to withstand an F5 tornado via the FEMA building standards
  - Low profile exterior with earthen berm around the exterior
  - No exterior windows, limited access points, and barricaded intake and exhaust vents
  - Double interlock fire suppression system
  - VESDA air quality detection system to proactively identify changes in air quality and prevent fires or other damaging situations
  - 2 - 1.5MW generators with a rough in for a third expansion unit
  - 2200 (1100 now and 1100 future) Tons of cooling via 4 chillers (3 now and 1 future) and 4 cooling towers (2 now and 2 future) rated to withstand 140MPH winds
  - A variety of physical security systems designed to protect the safety of employees and integrity of hosted systems
  - 2 total flywheels rated at 750kva/675kw UPS with flywheel energy storage providing appr. 20 sec of ride through at full load with provisions for future third unit. UPS systems are paralleled in an N+1 arrangement.
  - 1 UPS rated at 500kva with battery energy storage providing 8 minutes of ride through at full load
  - 2x1800A @ -48V DC power system for MDF room
  - 1500 sqft of raised floor for MDF room
  - 3100 sqft of storage, inventory and receiving space
  - Static controlled floors
  - Lightning protection system
  - Building perimeter ground system
  
- **3 Primary machine room pods**
  1. Enterprise Pod 1 (E1)
    - 10K Sqft of raised floor
    - 36" clearance on floor
    - 13' Ceiling height
    - 14 (8 now 6 future) total CRAC units one redundant
    - Houses Enterprise systems
    - Designed to the Uptime Institutes 4 Tier model as a Tier 3 facility
    - Designed to 100 watts a sqft
    - 1MW power distribution
    - 10 (4 now and 6 future) PDU's, 24 (12 now and 12 future) RPPs, each rack to be powered from two separate RPPs fed by different PDUs

## 2. Research Pod 1 (R1)

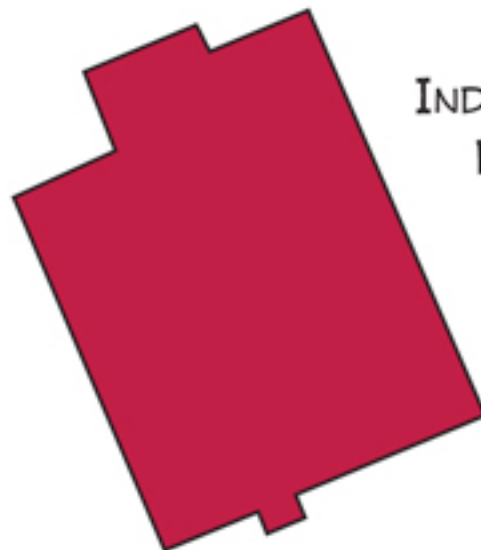
- 10K Sqft of raised floor
- 36" clearance on floor
- 13' Ceiling height
- 8 CRAC units with engineered expansion capabilities
- 12 RPP's with engineered expansion capabilities
- Houses Research and High Performance Computing (HPC) hardware
- Electrical and cooling redundancy 500kva UPS from above serves this space, (generator backup for HPC switches, head nodes and all spinning disk)
- 1MW power distribution design with engineered expansion capabilities
- 4 PDU's with engineered expansion capabilities

## 3. Research Pod 2 (R2)

- Cement slab uncompleted space
- 10K of future expansion space
- 16' Ceiling heights from unfinished floor
- 3MW power distribution design with engineered expansion capabilities

- **24 x 7 operations space**

- 720 total square ft
- 9' ceiling height
- 4 adjustable staff stations and video display wall



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