

# THE SCRIPPS RESEARCH INSTITUTE



## GENERAL BUILDING INFORMATION

- **LOCATION:** Jupiter, Florida, FAU Campus
- **CONSTRUCTION COST:** \$47.53 M GMP
- **NUMBER OF STORIES:** 4
- **SIZE:** 132,675 SF

- **OWNER:** SCRIPPS
- **CONSTRUCTION MANAGER:** FLUOR
- **DELIVERY METHOD:** Construction Management Design Build
- **ARCHITECT:** Zeidler Partnership Ltd. & Bohlin Cywinski Jackson



## BUILDING SYSTEMS

### STRUCTURAL

- Cast in place concrete structure consisting of a two-way 10" flat slab with 14" drop panels
- 24" x 24" perimeter beams
- 24" Square columns bearing on 12' Square spread footings at a depth of 2' below grade
- Concrete moment frames created by the columns and flat slab create the lateral system
- The penthouse level consists of steel joists on 12" masonry
- Vibroflotation to increase the bearing capacity of the soil for spread footings

### MECHANICAL & PLUMBING

- Two 1050 Ton Chillers supply chilled water at 1575 GPM
- Two main Boilers with de aeration tank supply 100psi steam at a rate of 6500 lb/Hr
- Four 500 Ton Cooling Towers are located in the mechanical yard
- Four AHU's are located at the penthouse level with a combined capacity of 202,000 CFM, 1510 Ton
- The Pre-Action Fire Protection system is supplied by a 40HP - 500 GPM Main Fire Pump has a backup jockey pump

### ELECTRICAL

- Primary power to the building is supplied by the utility at 25,000V and comes in at 23,000V and power is distributed throughout the building at 480/277 Y
- Transformers are located throughout the building to step the power down to 120V for receptacles and incandescent lighting
- A 2.25 Megawatt - 6,200HP Diesel backup generator supplies power at 480/277Y
- Two 4,500 lb. capacity elevators each powered by 50HP-480V-3Phase Motors

## ARCHITECTURAL FEATURES

- The main entrance is home to a dramatic 3 story atrium staggering back at each level on the way up
- This building houses unique research areas which drive the materials selection in each laboratory area
- Level one is home to the Vivarium, BSL-3 laboratories, mechanical rooms, and a telecommunications room
- Offices and BSL-2 laboratories located on the second and third floors with a common area at the central stairway on both levels
- An outdoor area on the back side of the building looks across one of the sites retention ponds which is used for landscape irrigation
- The exterior is a combination of two coat stucco with EIFS finishing, corrugated metal panels, and curtain wall in other places
- The roofing is an SBS modified bitumen system on concrete roof deck

ADAM HOUCK

CONSTRUCTION MANAGEMENT

<http://www.engr.psu.edu/ae/thesis/portfolios/2009/abh5003>

