Stephen C. O'Connell Center University of Florida Gainesville USA

Architect

Candill, Rowlett, Scott

(CRS) Inc 1111 West Loop South Houston. Texas 77027 713 621-9600

Associated Architect

Moore, May, Graham, Brame, Poole

Gainesville

Landscape Architect

CRS. Inc Houston, Texas

Structural and Mechanical Engineer

Geiger-Berger Associates New York, N.Y.

Electrical Engineer

Flack & Kurtz New York, N.Y.

Acoustical Engineer

Coffen

Anderson & Associates Mission, Kansas

Aquatic Consultant

R. Jackson Smith, AIA Stamford, Connecticut

Aquatic Engineer

General Contractor

Completion

The Eggers Group New York, N.Y. Program Requirements To provide a student activity center for the mixed-use recreation and the

Dyson & Co Pensacola, Florida 1980



university campus.
To provide an energy-conserving facility that functions in its southern climate sixteen hours a day, twelve months

indoor varsity athletic events of a major

a year.

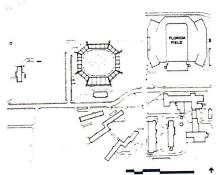


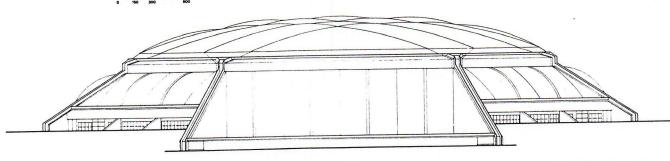
To establish a new campus symbol of vital activity and dynamic spirit:
By creating a stimulating and kinetic
experience with a strong sense of place
that allows simultaneous visual and physical participation in events. By developing an aesthetic system that expresses that synthesis of architecture, structure and mechanical systems. By the layering of events spaces that fosters interaction of activities, participants and spectators.

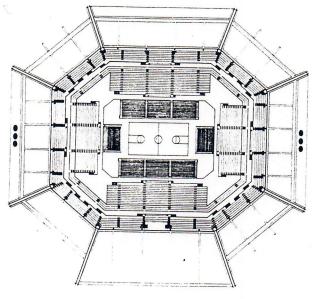
Simultaneous-use opportunities by spectators, classes and recreation activities are realized by organizing the main spectator arena within an air-inflated structure and smaller-scale activities within the tension-supported perimeter "skirt".

By creating "Piranesi-like" imagery of vaulting spaces and deep penetrating natural light.

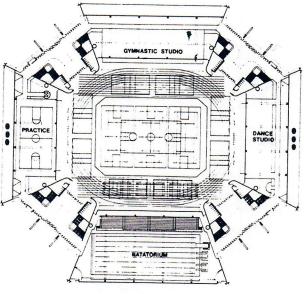
natural light.
By encapsulating event places with a fabric sky that transmits a spiritually-uplifting quality of light and creates a "Baths of Caracalla" new technology with an arched frame tension structure, designed to withstand hurricane forces, and a concrete hurricane forces, and a concrete compression ring to support the lightweight air-inflated arena dome. By creating an energy-conscious roof and wall system, constructed with a double layer fabric, that transmits natural light for daytime use, provides insulation and acoustical control.



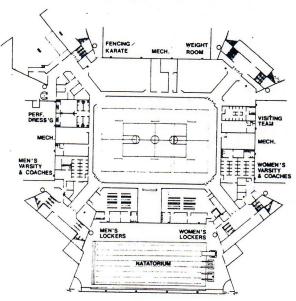




Seating Plan



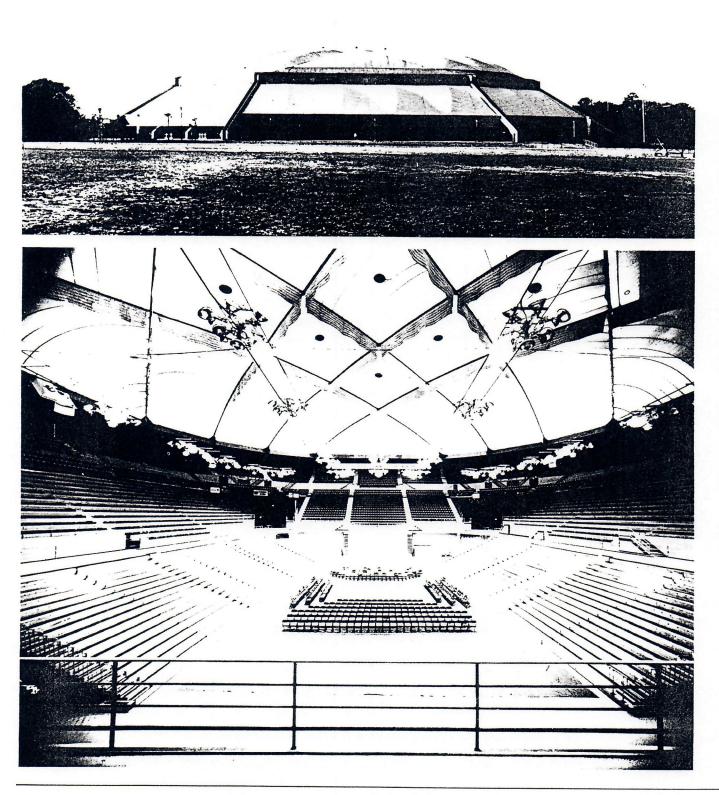
Ground Floor Plan

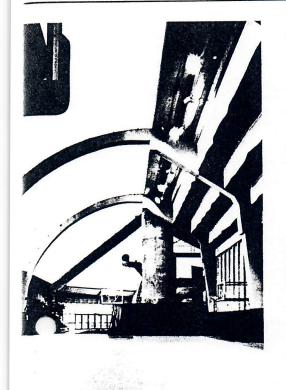


Lower Floor Plan

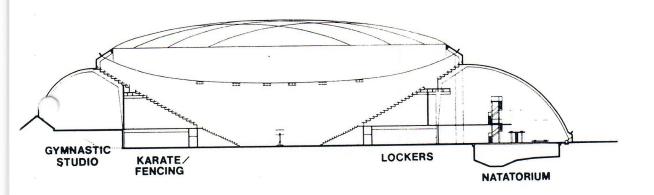












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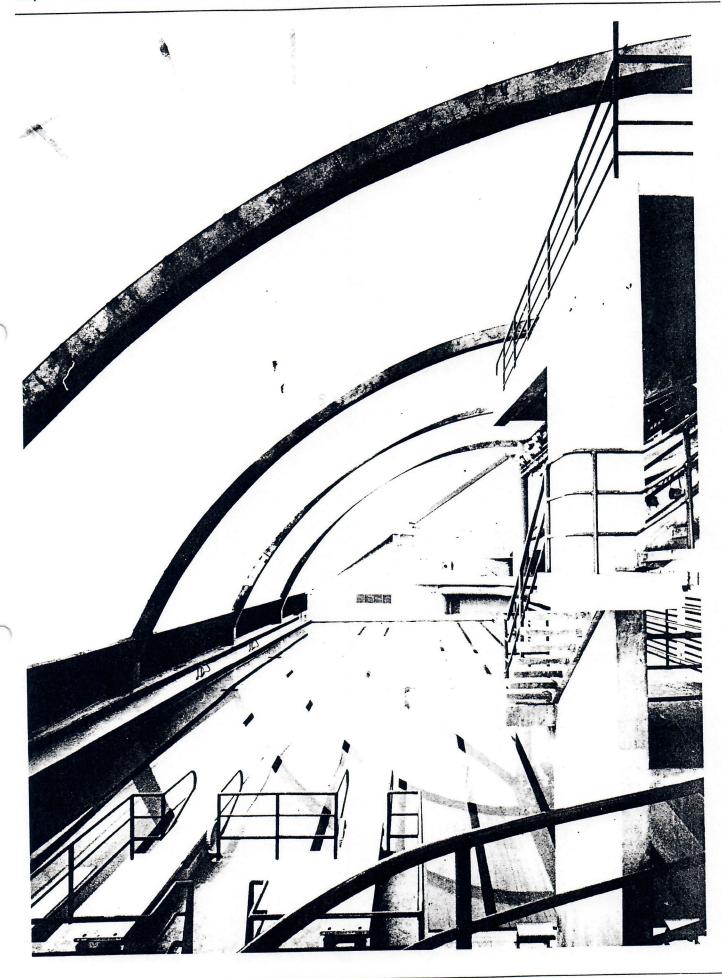
480,000 sq. ft. 246,900 sq. ft. 100,000 sq. ft. 23,100 sq. ft. 7,300 sq. ft. \$ 11,954,418 \$ 48.42

udio foot

by campus on all sides.

160 40 80







Construction

Maior Materials

Main roof is a cable-restrained, air-supported fiberglass membrane coated with teflon; perimeter roof is fiberglass tension membrane. Support structure is cast-in-place and precast concrete.

Construction system

Precast concrete bents and arches with eight cast-in-place hollow columns at each entry quadrant.
Eight steel cables support the inflated fiberglass roof.

Mechanical system
Four 100-horsepower fans with an air conditioning capacity of 750 tons.
Separate swimming pool air handling units are capable of 60 tons of air conditioning.

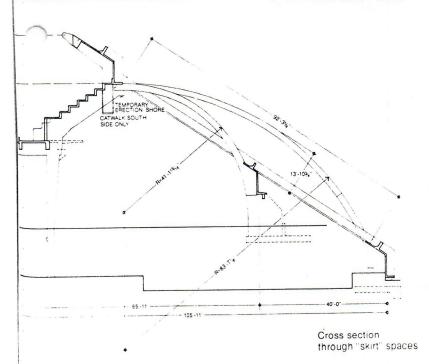
air conditioning.

Resource
In 1975 CRS designed the heralded
Thomas E. Leavey Activities Center
and Harold L. Toso Pavilion at the
University of Santa Clara, Santa Clara,
California, which was, like O'Connell,
an air-supported structure with
fiberglass roof skin.

Significance

Significance

O'Connell Center is the first such facility to combine both air-supported and tensile structures in a single entity.



Bibliography Progressive Architecture Nr. 8 August 1981 AC Contemporary Architecture 1982

Photos Balthazar Korab