

Altieri

AMERICAN MUSEUM OF NATURAL HISTORY ROSE CENTER FOR EARTH AND SPACE

ARCHITECT

Ennead

LOCATION

New York, New York

SIZE

379,000 GSF

COMPLETED

2000



AWARDS

2002 AIA National Honor Award for Architecture

2002 Award for Excellence in Design, AIA/New York State

2001 Design Excellence Award, AIA/New York Chapter

2001 American Architecture Award, The Chicago Athenaeum

2000 Best in Design: 2000, Time Magazine

2000 Award for Design Excellence, The Concrete Industry Board, Inc. of New York

2000 Bronze Plaque for Excellence in Design, The Municipal Art Society of New York

2000 Business Week/Architectural Record Award, AIA/Business Week Magazine

2000 NYACE Diamond Award for Engineering Excellence in Design, New York Association of Consulting Engineers

1999 Best of 1999 Award, New York Construction News

Founded in 1869, the American Museum of Natural History is one of the world's preeminent scientific and cultural institutions. It is renowned for its exhibitions and scientific collections, and wide-ranging program of scientific research and education. The Rose Center for Earth and Space is an impressive exhibition, research, and education facility inside a sphere that is housed in a seven-story glass box.

The Center "is designed as a visible expression of the science it contains."¹ The top half of the sphere contains the state-of-the-art "Sky Theater." The bottom half of the sphere contains a second theater in which visitors witness a re-creation of the Big Bang. From here, visitors follow a walkway that tracks 15 billion years of evolutionary events, starting with the first few moments of the universe and ending in the present day.

The project involved new systems and renovations of the existing systems serving the adjacent wings. Also included was replacement of the Museum's north electrical service and redistribution of existing MEP services from the central plant

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31 Knight Street, Norwalk CT 06851, 203.866.5538

171 Milk Street 3rd Floor, Boston MA 02109, 617.468.1800

through the new building. Altieri worked closely with a specialty consultant to create a computational fluid dynamics model of the building “cube” to assist in the design of smoke removal systems and air delivery for HVAC. In addition to these systems, the Rose Center has numerous specialized fire protection systems. Line-type heat detection systems were used along the exposed steel at the top of the cube and elevator core to eliminate the need for exposed fire-proofing. These, in conjunction with an air-aspirating smoke detection system and deluge-type sprinkler systems, provide protection for the exposed steel and interior portions of the cube.

¹ <https://www.ennead.com/work/rose>

