

One World Trade Center
New York, N.Y.

PHOTO: PANYNJ

JB&B
JAROS BAUM & BOLLES

Celebrating 100 Years

For more than a century,
JB&B has delivered exceptional
value through customized
solutions for a vast range of
clients and projects.



Hudson Yards
New York, N.Y.



One Bryant Park,
Bank of America Tower
New York, N.Y.

RENDERING: RELATED COMPANIES | OXFORD PROPERTIES GROUP

100 Years of Engineering Masterpieces

With over 14,000 projects to its credit, Jaros, Baum & Bolles is capable of providing a full range of services for nearly every type of building or structure, new or old. Buildings for which JB&B has served as consulting engineer include many of the foremost architectural achievements of the past 100 years. JB&B has been bringing buildings to life for a century, and it's only getting started.

One hundred years ago, when Alfred Jaros, Jr. and Albert Baum founded engineering firm Jaros and Baum, the Equitable Building at 120 Broadway stood as the world's largest office building at 1.8 million sq ft and the Woolworth Building was the world's tallest building at 792 ft.

In the past century, the company, also known as JB&B, has completed more than 14,000 projects, including the first fully air-conditioned large building in New York City and the first radiant cooling system in the United States.

Humble Beginnings to Achievement

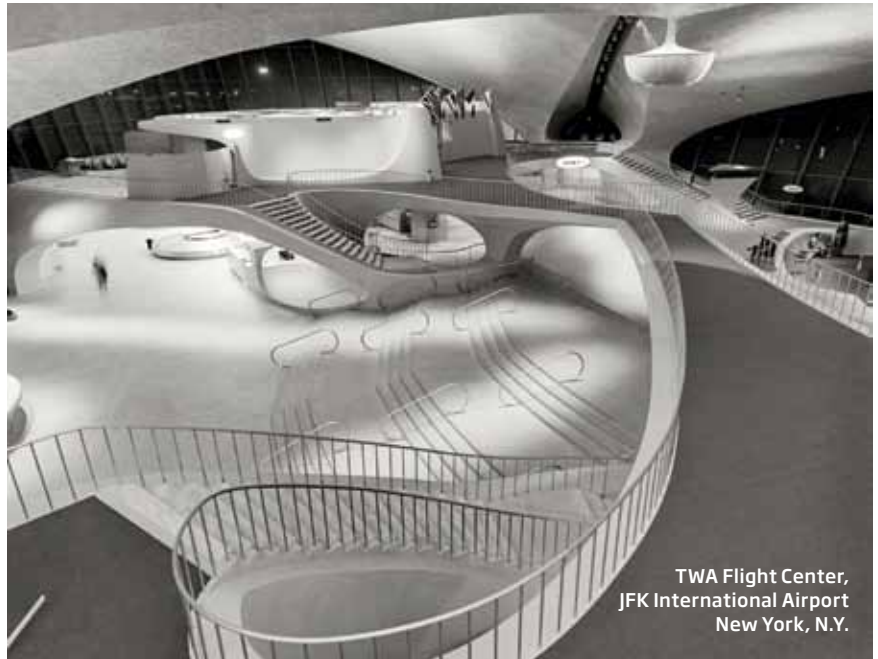
Before starting the company, Jaros earned \$18 a week doing such tasks as tracing drawings for the Woolworth Building. Hardly would he have believed that, in a century, the tallest building in the United States would reach 1,776 ft—or that his company would have been



Seagram Building
New York, N.Y.

handling the mechanical and electrical engineering for that property, One World Trade Center. Nor could he have imagined that just one of the firm's many other simultaneous projects would be 7.5 million sq ft at Hudson Yards.

Jaros and Baum started their company on a pair of desks borrowed from Jaros's uncle, who owned a marble works company. They took a break during World War I to work as engineering designers in the Navy's Bureau of Yards and Docks. They rebooted their business in 1919, landing work with the Allerton Hotel chain. The



TWA Flight Center,
JFK International Airport
New York, N.Y.

Shelton Hotel, the tallest in the world at the time, came next, followed by London Terrace, the world's largest apartment building. Despite a rough patch during the Great Depression, Jaros and Baum partnered with plumbing and water supply specialist Frederick Bolles in 1932, becoming Jaros, Baum & Bolles.

Tiffany hired the company to build a system to air condition its entire building, which back then was a custom job, down to the air outlets. Jaros, Baum

& Bolles pioneered again with the first million-volt X-ray machine, for Memorial Hospital for Cancer, smashing the standard of 50,000 volts. Come World War II, the Navy hired the firm to design the mechanical systems for a base in the Panama Canal Zone, including a bomb-proof power plant and air-conditioned warehouses, hospitals and barracks.

And the groundbreaking work continued: the Seagram Building, Lever House, Denver's Mile High Center, the Chase Manhattan Bank Building, the Pan Am Building (now the MetLife Building), Chicago's Sears Tower (now Willis Tower), the original World Trade Center, Bank of America Tower at One Bryant Park (North America's first LEED Platinum commercial skyscraper), Hong Kong's Bank of China Tower as well as the Central Park Zoo, the Whitney and the Met, not to mention complex healthcare, education, data center and lab space like the new Alexandria Center for Life Science.

Shaping the World's Skyline for 100 Years

With over 14,000 projects, JB&B's work spans the U.S. and Europe, and reaches six continents.

- Lever House (1952)
- Seagram Building (1958)
- Pan Am Building (now the MetLife Building) (1963)
- Sears Tower (now the Willis Tower) in Chicago (1973)
- Bank of China Tower in Hong Kong (1990)
- Original World Trade Center (North Tower 1970; South Tower 1971)
- TWA Flight Center at JFK International Airport (1962)
- Broadgate (1990s)

The Next 100 Years

JB&B believes that buildings should be more than a marker of the past; they should point toward the future. Indeed, "engineering" means to apply science and math to solve problems. That means the company's biggest achievement is often the latest solution it has devised, the latest client whose problem it has solved. The firm also seeks the most

Past Five Years

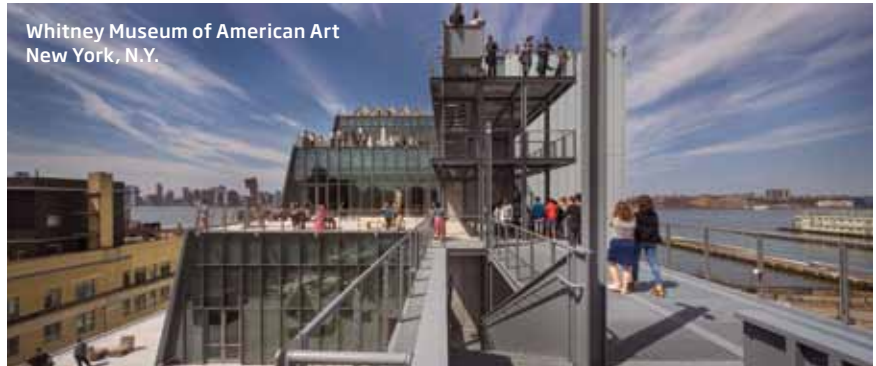
- ▶ World Trade Center Towers One, 4 and 7
- ▶ National September 11 Memorial & Museum
- ▶ 8 Spruce Street (Beekman Tower)
- ▶ Bank of America Tower at One Bryant Park
- ▶ Weill Cornell Medical Center Belfer Research Building
- ▶ Mount Sinai Center for Science and Medicine
- ▶ New York City Waterfalls Project
- ▶ Whitney Museum of American Art
- ▶ Brooklyn Botanic Garden Visitor Center
- ▶ John Jay College of Criminal Justice
- ▶ Barnard College Diana Center



Baha Mar
Bahamas

Coming Up

- ▶ 2 and 3 World Trade Center
- ▶ Hudson Yards Redevelopment (10, 15, 30 and 35 Hudson Yards, Culture Shed and Retail)
- ▶ Cornell NYC Tech
- ▶ Columbia University Manhattanville campus
- ▶ Moynihan Station redevelopment
- ▶ Steinway Building at 111 W. 57th St. renovation
- ▶ Baha Mar, Bahamas
- ▶ Memorial Sloan Kettering 74th Street Ambulatory Care Center
- ▶ NYU Langone Medical Center Kimmel Pavilion and Energy Building
- ▶ NYU New Science Building
- ▶ Museum of Modern Art Gallery Expansion
- ▶ Metropolitan Museum of Art Expansion
- ▶ Citigroup at 388/390 Greenwich Street



Whitney Museum of American Art
New York, N.Y.

efficient and sustainable solution possible—in order to serve not just clients but the larger world. JB&B's staff includes more than 50 LEED accredited professionals, and they sit at the forefront of sustainability initiatives like master planning and adaptive reuse, cogeneration plants and greywater recycling, heat recovery and thermal storage systems, daylight dimming and energy benchmarking. The firm is also an industry leader in voice and data network infrastructure, architectural lighting design, commissioning, the latest fire protection technologies, building management technologies including automation

and intelligent buildings, and building information modeling (BIM).

Of utmost importance through JB&B's 100 years is its clients, which span 30 countries. Many have worked with JB&B for decades, and their relationships will also likely reach far into the future. The firm serves these clients and their bottom lines by using proven engineering practices while also inventing new designs for new problems. And to make sure clients are getting the best service, JB&B invests heavily in its engineers and their ongoing education, guided by the philosophy that its people are its greatest strength. ■

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Thank you to our clients, partners and many great friends, who have helped us reach this major milestone.

