



**KAJIMA**

NEWS & NOTES

Winter 2004

Vol. **31**

## Shiodome Media Tower:

Tokyo's State-of-the-Art,  
Multipurpose Building

# Shiodome Media Tower:

## Tokyo's State-of-the-Art, Multipurpose Building

A winning combination of careful attention to client needs and architectural ingenuity results in a sleek, multipurpose high-rise that embodies Tokyo's transition from past to future.

The new headquarters building of world-famous news agency Kyodo News has opened in the heart of Shiodome Sio-Site, the city of tomorrow taking shape in Tokyo's Minato Ward. Standing 172 meters (564 feet) high and having 34 aboveground stories and about 66,000 square meters (710,400 square feet) of floor space, this high-rise complex houses offices, a hotel, and commercial facilities. An information transmission base for the 21st century, Shiodome Media Tower beams the latest news to the world 24 hours a day.



Shiodome Media Tower was designed and built by Kajima Corporation. A design team headed by Seita Morishima of the Architectural Design Division was responsible for the architectural design. To satisfy the client's desire to maximize space on each floor, the team decided on a triangular building that conforms to the shape of the site. The tower's external appearance expresses straightforwardly the robust superstructure, and the frame hints at the internal configuration: the building's interior features three multi-story open spaces. The result is a high-rise that combines strength with dignity and beauty.

Kajima introduced a number of state-of-the-art facilities to meet the demands of the IT-revolution-age client. The design team also employed an energy and resource-saving design approach from the standpoint of life-cycle engineering, such as the atria for gravitational



ventilation and wind-induced ventilation and installing airflow windows. The design of the Kyodo News offices, which are located on the middle floors, employs a triangular basic plan that concentrates the offices at the center of the building to maximize space and promote visibility, with the service core surrounding the offices. A “spider-shaped” stairwell at the center of the six floors housing the editorial offices contains staircase landings on each floor, from which open staircases extend up and down in three directions. This arrangement promotes cooperation among the various editorial departments, ensures physical continuity of the editorial floors, and fosters a psychological sense of unity.

The hotel occupying the building's upper floors provides a view from every guestroom by situating them along the building's periphery. At the hotels' center is a vast atrium 10 floors high capped by an enormous skylight that in the daytime bathes the restaurants and cafes below in natural light. The elegant interior befits a member of the “design hotels” group. The building's lower floors feature an expansive atrium of the same height as the Tokyo Waterfront New Transit

Yurikamome elevated railway. The atrium houses News Art, a public exhibition space serving as a cultural exchange facility that fuses leading-edge technology with the news.

Because the site is surrounded by the JR Yokosuka Line and a Toei Subway line below ground and the Tokaido Shinkansen and Yurikamome railways above ground, Kajima engaged in continual measurement control to ensure that construction did not affect transportation systems, installed shock-absorbing mats at the building's base to prevent vibration from being transmitted to the structure, and employed the latest construction methods and a meticulous approach.

A high-rise building with three multi-story open spaces, fresh-air ventilated multi-level office space, and a hotel with a stylish, flourishing indoor market square—all this reveals the distinctive character of the Shiodome Media Tower in its many facets. “Because it is an order-made building that resulted from exhaustive discussions with the client, we were able to achieve a unique, mixed-use building.” These words from architect Seita Morishima suggest a sense of satisfaction with a job well done.



## Tokyo's Shiodome District: Dramatic Transformation from a Sleepy Relic of the Past to a Dynamic Harbinger of the Future



The original Shimbashi Railway Station (photo courtesy of Yokohama Archives of History)



The reconstructed Shimbashi Railway Station

Originally a marshy tideland, today's Shiodome area was reclaimed at the beginning of the Edo Period (1603 to 1867), and many residential mansions for feudal lords from the Sendai, Aizu, and Tatsuno domains were located in the area. At the opening of the Meiji Period (1868 to 1912), the area was the site of the original Shimbashi Railway Station, built in the modern Western architectural style. This opened the way for the beginning of service in 1872 of Japan's first railway, which connected Tokyo and Yokohama. The station continued to be spotlighted as the Tokyo terminal of the Tokaido Line until the opening of Tokyo Station in 1914. Subsequently, for many years the Shiodome area was the site of Shiodome Freight Terminal, a dedicated freight facility. However, demand for rail freight decreased as trucking became the principal method of overland freight conveyance, and it was decided to redevelop the area to take advantage of its proximity to Tokyo Station.

The Shiodome Redevelopment Project divided a 31-hectare (77-acre) site centered around the former Shiodome Freight Terminal into 11 blocks and created a multipurpose community for business, commerce, culture, and residence. Full-scale work on Tokyo's largest inner-city

redevelopment undertaking began in 1995, and 13 high-rise buildings showcasing stylish architectural techniques have already been completed, including Shiodome Media Tower. The details of this vision for a new urban community are being filled in, and the full picture is beginning to appear. The name of this district, which once heralded the dawning of modern Japan as an early center of rail transport, has been changed to Shiodome Sio-Site. Completion of the project and conversion of the area into a future-oriented information hub, business center, and residential community is planned for 2007.

Although the original station building was destroyed by the fire following the 1923 Great Kanto Earthquake, remnants of the station were unearthed in a historic site survey conducted during the redevelopment project. On the basis of the survey, technical drawings were prepared making full use of digital technology, and in 2003 Kajima constructed a nearly exact replica of the original station building on the same location. This symbol of the birthplace of rail transport in Japan preserves the history of Shiodome for future generations. It is a fitting landmark for a district making the transition from an underused freight depot to a dynamic business and residential center.



# Kajima around the World

## From the United States

### Kajima U.S.A. Group Builds A New Paradise on Hawaii's Ka'anapali Coast

In February 2002, construction began on the Westin Ka'anapali Ocean Resort Villas, adding another luxurious Hawaiian resort to the Kajima U.S.A. Group's record. Consisting of two phases, the project is nearing its anticipated completion date of April 2005. The joint venture of Hawaiian Dredging Construction Co. and Kajima Construction Services, Inc. provided the general contracting services for Phase I, while Hawaiian Dredging, which joined the Kajima U.S.A. Group in 2002, is now managing Phase II.



Having built the beautiful Four Seasons Hualalai resort together, both firms knew what it took to construct a world-class tropical resort. The resulting exotic villas along the world-famous Ka'anapali coast of Maui are testament to this capability. Situated along a 7-hectare (18-acre) idyllic beachfront setting are 280 hotel and time-share units with stunning vistas and luxurious accommodations. The villas comprise three six-floor guest wings with a total area of 54,000 square meters (584,400 square feet). Built on prestressed, precasted piles, these post-tensioned concrete buildings house guest units with an average floor area of 140 square meters (1,500 square feet) that feature high-end interior finishes.

The resort includes a 2,700-square meter (29,000-square-foot) lobby building that contains the reception area and offices. Unlike the guest wings, this facility is composed of a steel and metal decking superstructure, covered in a skin of decorative panels that blend the building with the rest of the environment. The resort also features many leisure amenities surrounded by lush vegetation and distinctive Hawaiian features invoking an atmosphere of traditional native culture.

## From Europe

### American Splendor, Japanese Quality and European Strength



After having been awarded a major project in Siechnice, Poland by U.S.-based Parker Hannifin—the world leader in motion and control technologies manufacturing—the Kajima Europe B.V. Poland Branch took on a new challenge in November 2003. Wintertime in Poland can be severe, and made work on the project difficult for everyone involved. For two weeks, temperatures dropped to the  $-20^{\circ}\text{C}$  range. Happily, cooperation between the client and Kajima's team resulted in the successful completion of a

13,380 square-meter (144,000-square-foot) assembly plant and office in only seven and a half months. The grand opening ceremony for the plant was held on October 7, 2004. The Kajima team was very excited to take part in this huge multinational enterprise.



The first opportunity for Kajima Europe to work for Parker Hannifin occurred in June 2003, when Kajima Europe's Czech Branch proved Kajima's high quality during a 14,850-square-meter (160,000-square-foot) extension-refurbishment project in Chomutov, the Czech Republic. The client's satisfaction with Kajima's performance and on-time completion of this first task resulted in another project granted by Parker Hannifin, in April 2004 in Klecany, the Czech Republic. This project, involving a 2,315-square-meter (25,000-square-foot) new logistic warehouse, was completed by the end of October.

### **From Singapore** KOA Completes New Large-Scale Educational Facility on Schedule

Kajima Overseas Asia Pte. Ltd. (KOA) recently celebrated the completion of new facilities for Singapore's Institute of Technical Education (ITE), a challenging project that took 20 months to complete. The massive new educational complex has a total floor area of 182,481 square meters (1,965,000 square feet), comprising three blocks of seven-story buildings, including auditoriums, conference rooms, laboratories, gymnasiums and a number of classrooms equipped with the latest in IT.

The ITE was established in 1992 under the Ministry of Education of Singapore, to facilitate technical education and training for those who finished basic education and are pursuing lifetime education. The project in which KOA took part was the first regional campus project in line with a master plan announced in 2001 to consolidate the current 10 campuses into three large regional campuses to improve the learning environment. The new campus, expected to be operational from January 2005, will have sufficient resources and facilities to assist its 7,200 students pursuing full-time courses and 8,100 adult learners undertaking continuing education and training.

During construction, the project team faced a number of major challenges such as a shortage of manpower due to a new government policy to reduce the number of foreign laborers. The outbreak of SARS in 2002 also resulted in a slowdown in construction material deliveries and manpower flow. These conditions were overcome, however, by continuous hard work. The project was well organized to facilitate rapid construction, and there was excellent teamwork and professionalism among the architect (RSP Private Limited), consultants (Squire Mech Private Limited and others) and project team from the client. The project was completed efficiently within the 20 months specified, and the final result was recognized by a Safety Performance Award.



Mr. Tan Seng Hua, who was involved in the new campus project from the beginning, and recently appointed the new principal of the regional campus, spoke these encouraging words in his speech to 300 of the new campus staffpersons gathered for the day: "One of the difficult tasks of this new campus was accomplished by the construction team with their outstanding professionalism and deep devotion. It is now time for us to take over and face our own challenge squarely, to establish this as a new place for education."

### From Vietnam

## New International Airport Terminal to Boost Vietnam's Economy

A consortium of four Japanese general construction companies including Kajima has obtained an order worth ¥19.85 billion for the construction of an international terminal at Tan Son Nhat Airport in Ho Chi Minh City, Vietnam. The Civil Aviation Administration of Vietnam, represented by the Southern Airport Authority, placed the order for the project, and the consortium including Kajima won the contract in open tendering. The project was financed under the Special Yen Loan Package from the Japan Bank for International Cooperation. The consortium began construction work in September of this year, and the project is scheduled for completion in September 2006.



Tan Son Nhat Airport handles the highest passenger volume of any airport in Vietnam, and the current project was undertaken to construct a new international passenger terminal and convert the existing terminal to serve domestic flights. The total floor area of the construction project is 99,648 square meters (1,093,000 square feet). The aim is to increase the efficiency and convenience of airport service by constructing a passenger terminal building with four aboveground floors, access roads, elevated roads, parking lots and other facilities.

The opening of the terminal in 2006 is expected to contribute greatly to the economic vitality of Ho Chi Minh City and all of Vietnam.

### From Japan

## Twin Towers near JR Tokyo Station to Symbolize the Tokyo of the Future

In September, a consortium of five companies including East Japan Railway Company, Mitsui Fudosan and Kajima began construction of the Tokyo Station Yaesu Area Development Project, an undertaking to renovate a high-profile gateway to Japan's capital. This is a large-scale project to construct twin towers with about 360,000 square meters (3,950,000 square feet) of floor area at a total construction cost of about ¥130 billion. Construction will occur in two phases, and the work is scheduled for completion in March 2011.



The project involves the construction of two glass-clad high-rise towers on the north and south sides of the station plaza on the Yaesu (eastern) side of Tokyo Station and, to connect the towers, a central wing consisting of a long pedestrian deck covered by a large transparent roof that will provide natural illumination. This project will position the Yaesu Exit of Tokyo Station as a primary rail passenger gateway symbolic of the future and create a new urban space that expresses a spirit of innovation and progress.

# KAJIMA'S NEW TECHNOLOGY MAKES POSSIBLE TRANSPARENT ELECTROMAGNETIC SHIELDING FOR MRI ROOMS



Sophisticated diagnostic imaging equipment such as magnetic resonance imaging (MRI) has spread throughout the world in recent years. Now, Kajima's new technology has helped achieve a major breakthrough in shielding technology for magnetic fields.

Up to now, an MRI room had to be enclosed by heavy magnetic shielding plates and walls to contain radio frequencies, resulting in a confined room with a minimal number of windows. Kajima's new technology, however, employs special magnetic shielding strips, which permits space between strips, and makes possible an MRI room with a greater number of windows and expanded visibility. As a result, the psychological pressure of being in a closed space is reduced for patients, and the improved visibility enables doctors and technicians to view the entire room and thus enhance safety procedures.

Kajima's new technology also enjoys a higher shielding capability than conventional methods. This should facilitate a smoother transition to more advanced MRI equipment with stronger magnetic fields in the future.

***Please visit our booth at RSNA (Radiological Society of North America) 2004 in Chicago to explore Kajima's advanced magnetic shielding technology.***

Location: McCormick Place, North Building Hall B, Booth Number 6545

Exhibit Hours: Nov. 28 (Sunday)–Dec. 1 (Wednesday), 10 a.m.–5 p.m.

Dec. 2 (Thursday), 10 a.m.–2 p.m.

(The official website is <http://rsna2004.rsna.org/rsna2004/V2004/index.cvn>)



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