ENERGY of OBAYASHI ROAD

OBAYASHI ROAD CORPORATION
Obayashi Road Corporation started business in road construction, and to meet all needs in society, our field of operations has been quickly expanding. A rich pool of field records serve as our driving force to target further growth and development as a comprehensive environmental planner.

**OBAYASHI ROAD’S FIELD**

**Architecture**

- Shops, factories and warehouses

**Manufacturing and sales**

- Asphalt paving mixture, improved asphalt, recycled aggregate and recycled base course material

**Industrial infrastructure development**

- Expressways, national highways, airports and ports

**Living environment development**

- Landscape improvements, park greening, community roads, water supply and sewage systems and housing land development

**Sports facilities**

- Athletics fields, soccer grounds, baseball fields and tennis courts

**Technological research and development**

- Machines and Equipment Management Center

**Linking people, cities and the future**

Obayashi Road Corporation powerfully covers a wide range of fields.

2
Creating spaces friendly to people and the environment with cutting-edge technology

Paving technology to realize safe and comfortable roads

Securing road safety and comfort is the most essential role required for paving.

The “Hi-Drain” is a pavement with a high level of penetration using asphalt mixture having many voids. By quickly penetrating water under road surfaces, it contributes to prevent traffic accidents in rainy weather caused by splattering and hydroplaning. It is also equipped with a function to reduce traffic noise, contributing to the conservation of roadside environments. “Mizutori-komachi” is a pavement to realize similar functions with a thinner structure, and is useful for cost reduction. “Oak Silent” is a drainage pavement with added functions for the prevention of road surface freezing, and is effective for higher safety in wintry. “Gelato” is an improved asphalt to secure the durability of all asphalt pavements including the above. It overcomes harsh conditions such as traffic loads, temperature changes, and the effects of water and deflection.

Technologies to conserve the environment and build a recycling-oriented society

Conservation of the environment is one of the most important themes we address. The “Human Pave System” is a paving technology to improve the landscape, walking comfort and other physical elements of cities. The system not only creates people-friendly spaces using materials such as pebbles and decomposed granite but also positively reuses timber from forest thinning, used tires, disposed glass and other wastes to create a recycling-oriented society. The “Total Program for Thermal Environment Improvement” proposes technologies to suppress temperature rises on pavement surfaces with water and special paint and to green roofs and verduraries in order to comprehensively address the challenge of deteriorating thermal environments in cities as represented by the heat island phenomenon. The “AAR Method” is a technology to contain seepage from a waste disposal site. It prevents soil contamination by hazardous materials eluding from waste. We also address the development of technologies to purify soil contaminated by, for example, petroleum or heavy metal.

Technologies to maintain lifelines and support life

As part of creating an affluent living environment, lifelines such as water supply and sewage systems, communication cables and power cables are buried in conduits under roads, etc. The “Hi Super Method” is a construction method to newly install conduits without excavating the road by jacking through the soil from a temporary vertical shaft and inserting the main conduits inside the jacking pipe. As it can respond to any soil, it is used in different conditions across Japan. “Photo Hardening” is used for the quick rehabilitation of existing aged conduits from the inside by installing tabular resin membrane inside the conduit and radiating light (ultraviolet ray) to harden it. We also offer technologies to rehabilitate every conduit with small to large diameters such as the “SPR Method” to supply and fit a profile assembled with steel reinforcement material to tube manufacturing machine to repair any section as well as the “UJRC Method” and “Eco TMS Pipe Replacement Method” to destroy existing conduits from inside without road excavation and inserting new conduits.

With the broadening business area and diversifying social needs, our technological domain is ever expanding. Based on technologies cultivated through road construction, we continue to take on challenges to create spaces friendly to people and the environment.

OBAYASHI ROAD’S TECHNOLOGY

MAP Method
Thinly asphalt concrete pavements are simultaneously set in two layers in multiple lanes.

FT Drain
FT Drain is an Eco Mark-certified aqueduct made from 100% reground rubber. It quickly discharges water that has been washed off road surfaces under three to five millimeters.

RA Pave
RA Pave is a pavement where mastic material mixed with rubber is used to seal asphalt joints during construction. It reduces road surface freezing in winter, in addition to traffic noise.

Chiindenkun
A cistern to store rainwater in void of fillings made of crushed stones is proposed for agricultural lands and urban areas. This is a construction method to simultaneously ensure that roads, etc.

Muddy water treatment system (Chindenkun)
It is a facility to store water generated by excavation or jacking work and is consolidated and sealed using a coagulant and drained supernatant water. Concrete block is mixed in a filter bed and other secondary drainage handled internally.

Underground cisterns
A cistern to store rainwater in void of fillings made of crushed stones and special plastic material is used to store water that is used underground. It is a facility to store water as domestic and industrial water in addition to disaster prevention.

Hybrid Slipfoam Method
The high-tide pipe construction method uses labor and improves safety by replacing the main reinforcing iron with highly rigid large-diameter steel pipes. The method requires no disassembly of concrete inside pile, enabling shorter working periods.

We are engaged in the development and commercialization of various technologies meeting customer requirements.
To fully satisfy customers, Obayashi Road Corporation has always strived to research and develop cutting-edge technologies and accumulated its technological strengths. The new technologies we have developed have been applied to various projects, ushering in a new phase of innovation to the industry. Driven by the Research and Development Institute, we continue to steadily address challenges for further improvement of technology and quality. To meet needs that become even more complex along with the change of times, we maintain a broad view, and are engaged in R&D activities for the future.

### Planning/Design

The master plan is prepared through thorough reviews of various aspects such as optimal construction periods, quality, cost, and environmental loads. Based on the plan, each section collaborates and designs plans with excellent functionality and economy. To enable customers to fully understand the plan, we keep it in mind to prepare easy-to-understand design documents. In order to eventually have the design details carried out smoothly on site, we establish the execution design. Thanks to a final design and process plan prepared with close attention to detail, actual construction work can be conducted in a safe and efficient manner.

### Customer Service

We offer consistent and complete service from planning to design, construction, and customer service. Sharing a vision, we work closely with customers, taking steady steps to make their dreams come true. This spirit of teamwork realizes a high standard of quality.

### R&D

Offering 100% response to customer needs

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### Construction

The right staff gathered from planning, design, construction, and other specialized fields combine their sophisticated technologies for each project. Professional skills accumulated through many field records of construction realize high quality and low cost. Strict inspections established at each stage of the project further assure quality. We forward each work safely and quickly, in consideration of traffic, noise and other effects upon the environment of the neighboring community. To seek a higher level of quality, our Tokyo Branch (currently Kanto Branch) acquired ISO9002 international standard certification in March 1998, and most production sites have been certified since then. This endorses our many years of initiatives for maintaining quality.

### Our responsibility to assure quality after construction

We assume responsibility to keep design data and construction specifications used for construction. Based on data, we regularly check the appearance and functions after construction. We listen to the opinions of customers in order to maintain the asset value of products for a long period of time. We believe that trust is created from an attitude to assure quality for many years. With the capability to offer attentive service and reliable proposals, Obayashi Road Corporation continues to bring customers’ dreams to life and protect invaluable assets.
As an essential part of infrastructure to support industry, roads are becoming longer and more multifunctional. In consideration of diverse elements and factors in the 21st century, such as the arrival of the highly networked information and aging society and the shift from city-centered societies to locally distributed societies, road construction is now in the process of further evolution.

Paving of the Keihan Road Katano Area (Osaka)

Kansai International Airport (Osaka)

Paving of Kitakanto Expressway Ashikagahigashi Area (Tochigi)

In response to diverse applications, Obayashi Road Corporation has created a wide range of functional spaces. Supported by our rich pool of technological strength and know-how, we propose economical and functional spaces, serving as the mainstay of community development.

Living environment development

Landscape improvements, park greening, community roads, water supply and sewage systems and housing land development

Kawaguchiko Music Forest Museum (Yamanashi)

Heiseikan, Tokyo National Museum (Tokyo)

Nakano River Spiral Fishway (Kochi)

National Treasure, Zuiryuj Temple (Toyama)
As a means to create a comfortable leisure life, sport is taking on more importance. Obayashi Road Corporation takes advantage of its technologies cultivated through road paving, getting involved in the construction of athletic fields, tennis courts and some other sports facilities, helping people to lead an active and gracious life.

Obayashi Road Corporation creates functional and economical spaces tailored for individual applications such as residences, offices, cultural and education facilities. Containing architecture as part of its business field, the company makes proposals from a wider viewpoint as a comprehensive environmental planner.

*Obayashi Road Corporation constructed Gymkhana Course, Short Course, and Drift Course.*
Another pillar of the business of Obayashi Road Corporation is the manufacture and sale of asphalt mixture and high quality asphalt. Taking advantage of our asphalt mixing plant network across Japan, we safely and quickly deliver high quality asphalt mixtures.

“Sealoflex” to change future roads

“Sealoflex” is a high quality asphalt product where modifiers are evenly distributed in straight asphalt like a net. We manufacture a wide range of improved asphalt of different grades.

Mixtures using “Sealoflex” suppress nutting and cracking and exert excellent effects for such applications on harsh conditions as water draining pavements fluidity resistant pavements required for intersections, airport runways, and so on.

At the asphalt mixture plant, we employ a wide range of pollution prevention measures to conserve the environment such as soundproof facilities, bag filter dust treatment equipment, and deodorant facilities. Furthermore, we have introduced recycling systems at the mixing plants across Japan, actively engaged in resource saving.

The keys to high quality and quick delivery of asphalt mixtures are a computer-controlled quality management system and the latest testing instruments. Based on specifications and standards, we centrally control the flow from material selection to manufacturing program and shipment by computer.

Obayashi Road Corporation has been engaged in the construction of many roads. Based on the three pillars of safety, durability, and economy, the company has strived to research and develop cutting-edge technologies. Taking advantage of sophisticated technology and excellent know-how, it strongly supports individual sites of production.

Our business field has many diverse needs from reduction of environmental loads to the security of comfortable driving performance. To meet such needs, Obayashi Road Corporation works on new highly functional materials and methods and technically supports individual sites of production, driven by the Research and Development Institute, Engineering Department and Machine Center.

In April 1999, about 160 people, including representatives from different countries gathered in Tokyo for the Sealoflex World Conference. The background of this meeting was the sophistication and diversification of pavement needs in Japan in recent years. Obayashi Road Corporation played the important role of host-company, and as the Japanese sales distributor of “Sealoflex,” won further trust.

We will continue to strive to promote R&D activities from fundamental technological research to leading edge technology development.
We strive to improve our construction technologies by dispatching trained technicians, together with construction machinery, for the operation and control of construction work at the forefront of building sites in order to more efficiently deliver high precision and quality products and work.

**Business Office**

**Factory**

**List of owned machinery**

- Concrete leveler
- Slipform paver
- Asphalt finisher
- Asphalt finisher
- Grader
- Concrete finisher
Message from President

Obayashi Road Corporation will keep on challenging the creation of living environments where the dreams of people can be achieved

Since the foundation of the corporation in 1933, it has worked, with its technique and technology accumulated through road construction in long history, on development of not only roads to support activities and lives of people, but also other social infrastructure such as airports, harbors, information and communication facilities, sewerages, drainages, hospitals, schools, sports/leisure facilities, parks, various types of industrial and commercial facilities. As a result, it has contributed to the fulfillment of people’s abundant living environments.

Our corporate activities are based on three fundamental ideas of “Create abundant living environments,” “Live in harmony with local communities” and “Manage a business with respect for human rights.” In order to create the environment mentioned in the beginning we will continue to develop the advanced technology based on the knowledge and experience which we have built up in environmental preservation and global warming countermeasures, etc.

We are assured that this advanced technology will result in the creation of new value.

Moreover, we will make concerted efforts to meet the customers’ trust and expectations with faith and sincerity keeping a basic stance in our business approach; “better, faster and cheaper.”

Thank you for being our customer.

Corporate Philosophy

Create abundant living environments
Live in harmony with local communities
Manage a business with respect for human rights

Management Paradigm

1. We pursue customer satisfaction, adding values by our leading edge technology
2. We create dynamic working environment, encouraging employees to be innovative and adopting a flexible approach towards them
3. We seek to be a responsible corporate citizen, through positive social and cultural contribution.

Conduct Code

1. Enhance our capabilities
2. Conceive an innovative and creative idea
3. Challenge continuously
4. Broaden our knowledge and understanding
   Be good citizen and good cosmopolitan
OBAYASHI ROAD CORPORATION

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