ON-LAND CIVIL ENGINEERING Operations

Ohkusano Tunnel (and One Other Section) for Kyushu Shinkansen (West Kyushu)

Construction work on the Ohkusano to be opened for use in FY2022. Tunnel, one other section, and Toa Corporation carried out miscellaneous work for the Kyushu construction work on the tunnel completed in Saga Prefecture.

This project involved construction work on a part of the Kyushu The opening of this route will Shinkansen's West Kyushu route, shorten the travel time between which runs for approximately 143 kilometers connecting the city of Nagasaki (Nagasaki Station) and the city of Fukuoka (Hakata Station), provisionally scheduled

Shinkansen (West Kyushu) was and open segments totaling 2,142 meters between the cities of Takeo and Ureshino in Saga Prefecture.

Hakata and Nagasaki by almost 30 minutes, and it is anticipated that visitors from the neighboring areas will help revitalize the region through tourism and business.



Land Development Work for Fujitrans Corporation Logistics Center (Aichi, Japan)



Land development work ordered base. The ground formation work by Fujitrans Corporation for the involved the creation of a vast site Fujitrans Corporation Logistics of land of approximately 200,000m² Center has been completed in the village of Tobishima in Ama-gun, Aichi Prefecture.

carried out is located at Nagoya Port, has started to be put to use as a which handles the largest volume container yard, with plans calling of cargo in Japan. Improvements for the construction of a new are being carried out to make the Logistics Center a major distribution

that was raised about one meter higher than the surroundings as a countermeasure against tsunami. The area where the work was At present, a portion of the site distribution warehouse to integrate distribution functions.

Construction of Bridge Pier on National Route 45 across Kesennuma Bay in Matsuzaki District (Miyagi, Japan)

The work has been completed which forms the main part of the in the city of Kesennuma in the Matsuzaki District of Miyagi Prefecture.

As a leading project for recovery from the Great East Japan Earthquake. Along the Sanriku Coast in the Tohoku region, repair work is being carried out at a rapid pace on the Sanriku Coast Expressway (Reconstruction Road), a 359 km stretch of a road specifically for use by automobiles region. The JV of which the that connects the three prefectures Company is the main partner for of Miyagi, Iwate, and Aomori.

Kesennuma road section of the Sanriku Coast Expressway. The bridge will have a length of 1,344 meters and cross over the Okawa River in the city of Kesennuma in Miyagi Prefecture and Kesennuma Bay. Upon completion, the span of the bridge, which is approximately half the length of the bridge (680 meters), will be the largest for a cable-stayed bridge in the Tohoku this construction work undertook Plans call for the construction of the building of the piers for this a bridge across Kesennuma Bay, bridge across Kesennuma Bay. The tourism in the Sanriku region.



completion of this bridge across Kesennuma Bay will shorten the routes traveled, and it is also expected to contribute greatly to

Earthquake Resistance Work on Shibakawa Floodgate (H25) (Saitama, Japan)

The land that spreads out in the level, and should the Arakawa River anticipated that the area would

downstream part of the Arakawa overflow and breach its banks due suffer devastating damage. The River is an area that is below sea to flooding or other reasons, it is Shibakawa Floodgate, which is

double-sluice gate type floodgate located at the confluence of the Arakawa River and the Shibakawa River along the left bank of the Arakawa River about 19.7 km from its mouth, was installed for the back into the Shibakawa River. An underway to enable the floodgate a separate work contract. to function even if an earthquake

occurs directly underneath Tokyo, in addition to its function to reduce damage from flooding. Toa Corporation executed earthquake resistance construction work on the right side of the purpose of preventing floodwater floodgate as viewed in the from the Arakawa River flowing photograph. The Company is carrying out construction work on earthquake resistance project is left side of the floodgate, too, under

Rehabilitation of Sewage Drainage System(Tokyo, Japan)



The sewerage network in downtown site of narrow streets with heavy Tokyo, was constructed nearly one century ago. The Tokyo Metropolitan Government started a project to rehabilitate the sewage drainage network through reconstruction and refurbishment. TOA was awarded a contract to reconstruct the drainage system for surface runoff in Chiyoda ward. Against the construction without any accidents.

Newly Completed Project

Road Improvement Work on National Route 45 in Sakanoshita District

Road improvement work has been productivity through greater period. completed on National Route 45 precision and efficiency in the To date, Toa Corporation has in Sakanoshita District in Iwate construction work. This led to a undertaken a large number of Prefecture.

The construction work was carried forward as a leading project for the restoration of areas that suffered earthquake-related damage by accelerating the recovery from the Great East Japan Earthquake and making the road network solid and capable of withstanding natural disasters. The improvement work is expected to enable relief supplies to more readily gain access to transportation hubs, as well as enhance delivery capabilities to emergency medical facilities. Furthermore, the use of ICT construction technologies for all of the construction processes of this work, including surveys, measurements, design, construction, and inspection resulted in raising

shortening of the construction recovery construction projects.





traffic and a dense concentration of buildings, TOA's highly-qualified engineers dealt with various difficulties and utilized the shield tunnel method to complete the drainage system, which measured 2,058m in length with an inner diameter of 2,200mm, on schedule



Client Tohoku Regional Development Bureau of the Ministry of Land, Infrastructure, Transport and Tourism

Construction period January 2018 to November 2020 Project outline Excavation work: 340,000m³ Embankment fill: 300,000m³ Construction work of one set each of slopes, ground improvement, and retaining wall; as well as construction work on seven drains; and construction work on one set of drainage structure

Site of construction Kunohe-gun, Iwate Prefecture