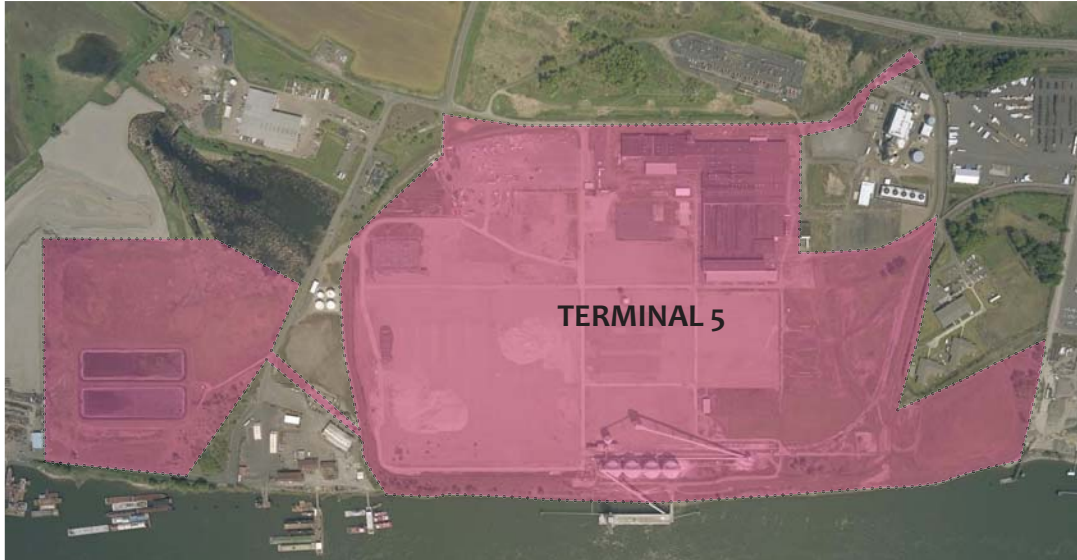


Port of Vancouver - Terminal 5 Development

Vancouver,
Washington



The project involves the multi-phase redevelopment of the Alcoa/Ever-green Aluminum Plant site into the new Terminal 5. The site has several areas of contamination, which have been capped prior to the start of re-development. The project is approximately 210 acres in size. HDJ is providing Land Survey, Civil Engineering, Traffic Engineering, and Project Management services.

Phase I (2009) of the project involved data gathering (land survey, archeological and geotechnical investigation) for the portion of the property to be developed, the permitting of the development, and construction of a 73-acre marine cargo lay down area for storage of wind turbine components at Port of Vancouver. Phase IA involved the development of 43-acres located on the former Alcoa site, which is located in the City of Vancouver. Phase IB involved the development of 30-acres located on the former Evergreen site, which is located in Clark County. Since each site was within different jurisdiction areas (at the start of the design process), two site plans/construction drawings were needed. HDJ was able to design and permit Phase IA and IB simultaneously through their respective reviewing agency. The design of the project included a new access road system and a new stormwater collection and conveyance system. The project also included improvements to the Port's internal site access corridors to accommodate the

large vehicles needed to transport the wind turbine components.

Phase II (2010) involves data gathering (land survey, archeological and geotechnical investigation) for the portion of the property not associated with Phase 1. Phase II also included the analysis and evaluation of existing utilities and the creation of a Master Plan for future development of the site, including a road system, potable water conveyance system, fire protection system, sanitary sewer system, stormwater collection and conveyance system, and the lighting system. Phase II also included the design, permitting, and construction of over 2,500 lineal feet of 18" gravity sanitary sewer main and over a half-mile of public watermain to accommodate Keyera Energy, Inc., a new tenant to Terminal 5. HDJ also provided the Land Surveying, Civil Engineering, and Traffic Engineering for the design, permitting, and construction of the Keyera Energy, Inc. development.

Work in **Phase III (2011)** includes final design and construction drawings, permitting, and construction of improvements to the West Alcoa property to allow for the relocation of a new tenant. Improvements to the access corridor to the site and water and sanitary sewer connections to the property line are planned. Plans will also provide for the construction of a Terminal 5 basin stormwater facility (replacing the existing ponds).

SERVICES

- Civil Engineering Design
- Traffic Engineering
- Land Survey
- Project Management

DESIGN FEATURES

- Site Area: 191 Acres Total
- Design and Permitting of Gravel Laydown Areas
- Improvements to the Port's Internal Site Access Corridors
- Multiple Jurisdiction Areas
- Utilities Analysis & Evaluation
- Master Planning for Future Development