

Waterfront Housing Development Burlington, Vermont

2005 American Council of
Engineering Companies – Merit
Prize for Engineering Excellence

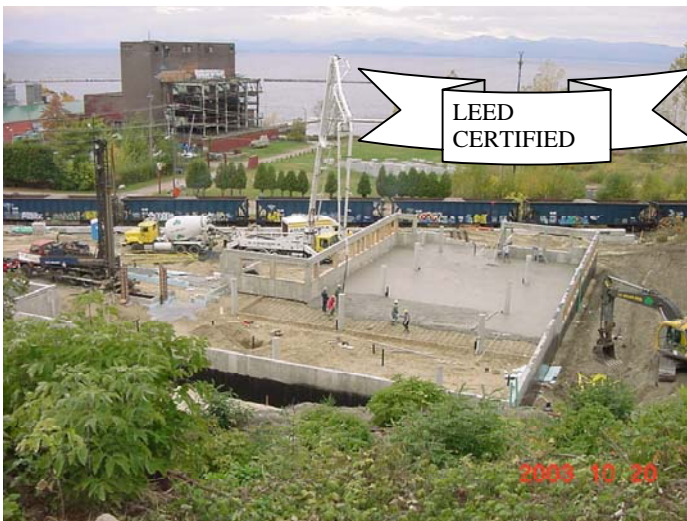


Owner: Burlington Community Land Trust
and Housing Vermont

Client: Gossens Bachman Architects

Knight Consulting Engineers provided Civil, structural and geotechnical engineering services as well as inspection services for the construction of this four story residential facility which was recently completed at the Burlington Waterfront.

Photograph of model prepared by Gossens Bachman



The structural systems consist of all wood framing with 18" deep floor trusses. The first floor slab, which is composite steel and concrete, is designed to transfer the hallway loadbearing walls to the concrete columns in the parking garage.

The building is specifically designed to be energy efficient. Specific structural design elements include exterior insulation to help hold and retain heat inside the building envelope.

Site design included a stormwater treatment system for the project and the surrounding developed area. Other design features of note include slope reinforcement and the extension of Lake Street.



Awards won: LEED Certified, 2005 Efficiency Vermont Excellence in Comprehensive Building Design Award, Governor's Award for Environmental Excellence, 2005 ACEC Engineering Excellence runner-up and the "Show us You're Green" award from the American Institute of Architects. Additionally, Waterfront has been honored with a Housing Endorsement from the Vermont Smart Growth Collaborative; and Excellence in Comprehensive Building Design from Efficiency Vermont. Waterfront Housing is also under review for a smart growth award from the U.S. EPA and is one of the 10 finalists in the rental housing category of The Home Depot Foundation's Inaugural Awards of Excellence For Affordable Housing Built Responsibly.