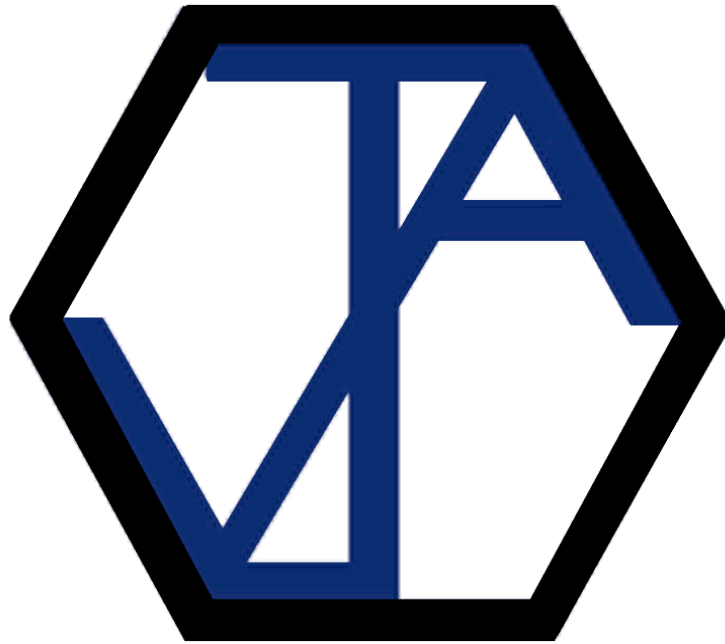


New Ready-Mix Concrete Plant

Rempel Bros. Concrete Ltd.

Designed & Developed By:



Villholth Jensen & Associates Ltd.
Consulting Engineers

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Prime Consultant: Villholth Jensen & Associates Ltd
Project: New Ready-Mix Concrete Plant
Client: Rempel Bros. Concrete Ltd.

Overview - The Client:

Rempel Bros. Concrete Ltd. owns and operates several Ready-Mix plants throughout the Lower Mainland. With the old plant in North Vancouver being shut down, an adjacent property was acquired for the construction of this new plant.

Overview - The General Contractor:

The contractor on the design, supply, and installation of the equipment at the ready-mix plant was Quadra Control. Innoquip Systems designed the system. The civil contractor was Wallace & Compay Ltd.

Overview - The Consultant:

Villholth Jensen & Associates Ltd (VJA), established in 1986, is a successful Vancouver consulting engineering firm. The company has extensive local and international experience. Areas of expertise include design and development of Ports and Marine Structures, Civil and Structural Engineering, Coastal and Offshore Engineering, along with all aspects of Project Management. VJA's list of clients includes BC Ferry Corporation, BC Hydro, Placer Dome, Public Works Canada, and Vancouver Port Corporation, to name but a few.

Prior to this project, VJA served as consultant on several ready-mix plants in the United States. These projects were all design build, where VJA worked in team with Innoquip Systems.



Reinforcement of perimeter beam



Completed slab with pedestals for equipment



Project - Specifications:

This new ready-mix plant is unique in that it is the first plant in the Vancouver area to be fully enclosed in a building. This includes all aggregate bins, all silos, the mixer structures, and the office building. This is to minimize noise and dust, and also for esthetical reasons.



Installation of equipment

Project - Design & Construction:

Planning and preliminary design of the facility started in 1999. The detailed design of structures and foundation started early in 2001.

The foundation for the bins, silos, and mixer structures are designed as floating foundations. These floating foundation are heavily reinforced slabs on grade. The remaining part of the facility is also on a floating foundation. A perimeter beam connected to the floating foundation supports the steel frames and steel columns of the pre-engineered enclosing light steel building.



Installation of bins and silos

Site preparation started in May 2002. The main construction work started in August 2002 and was, in general, completed in October 2002.

The erection and installation of plant equipment started early in October 2002. Following the installation of the equipment, the steel building was erected. This work was, in general, completed late in December 2002.

Project - Successful Completion:

Electrical and mechanical installations continued throughout January and February of 2003 and were completed early in March 2003. The plant successfully produced and delivered its first concrete mix in March 2003.



Installation of conveyor



In Conclusion:

Rempel Bros. Concrete Ltd's new Ready-Mix Plant is only one example of VJA's commitment to quality. Our team of Professional Consulting Engineers is committed to the efficient planning and engineering of projects, combining technical skill with environmental sensitivity.

For more information about our services, please visit our web site at www.vja.bc.ca, or call us at (604) 985-0781.



Mixer structure



Interior of mixer plant



Completed Ready-Mix Plant at Rempel Bros. Concrete Ltd.'s North Vancouver facility.