

Churchill Elevator Rehabilitation Structural Repair and Window Installation

STRUCTURE:	Concrete Grain Elevator Annex Silos, Workhouse and Trackshed
LOCATION:	Churchill, Manitoba
PROJECT DATE:	June to October 1999
JOB DURATION:	5 Months
CONTRACT AMOUNT:	\$ 660,000
CLIENT:	Hudson Bay Port Company
CONTRACTOR:	Vector Construction Group, Manitoba Branch



PROJECT DESCRIPTION:

The slow deterioration of the building envelope over many years included freeze/thaw damage to the foundation, shifting and cracking of structural concrete beams, breakdown of contraction joints between sections of building, damage to the concrete around the windows, and corrosion damage to the window frames.

PROJECT SOLUTION:

Vector Construction was hired to establish a priority list of the most critical repairs required, and to conduct these repairs as efficiently as possible. The short available working season, and coordination with the day to day grain moving activities, were important considerations in the planning of the project. A combination of concrete repair for the foundations, epoxy injection for the structural beam repairs, and urethane injection for the waterproofing of the contraction joints was used to complete the priority repairs to the main structure. The replacement of some of the window frames, including the adjacent deteriorated concrete, was completed in order of proximity to critical operating equipment in the workhouse.



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