

City of Richmond Richmond Fire-Rescue

FACT SHEET
Hamilton Fire Hall
22451 Westminster Highway
Richmond, BC



Project Overview

The 8,100 sq.ft. Hamilton Fire Hall was fully re-constructed in November 2006. It replaces the 60 year old “No. 5” Fire Hall, north of the new site on Westminster Highway.

Key elements of the building include a two-story fire hall with a 60-foot high training and hose-drying tower and a two-engine garage bay.

As part of the overall project, a separate public washroom building was constructed adjacent to McLean Park. A public art display is included in the project and a public meeting room is located at the Fire Hall entry lobby.

In support of sustainable “Green” Initiatives, the Federation of Canadian Municipalities contributed a grant of \$501,490 towards the construction of this facility.

Key Features

- Designed for post-disaster, the structure is concrete slab on structural fill compacted to new 100-year flood plain elevation. To reduce structural weight of the building, the building has a 5 ft. crawl space under the entire building footprint.
- The superstructure is heavy timber, wood, and glue-lam framing supplemented by steel framing, with exterior finishes including jumbo brick, metal cladding, metal roofing and green roof.
- Sustainable “Green” Initiatives to achieve a targeted LEED® Gold rating:
 - Geothermal ground source heating and cooling with targeted 80,700 KWH savings /annum
 - In floor radiant heating and cooling
 - Maximization of thermal massing
 - Trombe wall
 - Rainwater collection for irrigation and truck washing
 - Storm water retention and bio-treatment on site
 - Solar hot water system
 - Low flow plumbing fixtures and waterless urinals
 - Green roof
 - Optimized building shape and orientation for solar and wind gain
 - Extensive day lighting features
 - Strategic placing of green spaces, trees, and concrete to create shading and wind micro climates
 - Wind/ buoyancy driven ventilation
 - Energy efficient fixtures, equipment, and lighting
 - Use of recycled materials
 - Stringent control and selection of green construction materials, waste, and procedures

Cost: \$3,055,000

Grant: \$501,490 - Federation of Canadian Municipalities, Green Municipal Fund Grant

Architects: Johnston Davidson Architecture + Planning Inc.

Contractor: Mi-Dan Construction Ltd.

Official Opening: March 31, 2007

