

DAIRY FACILITY INTEGRATES MEGADOME

– Bileena Holsteins, Agassiz, BC



BuildWorks Construction Inc. provided the comprehensive planning, design and construction management services to **Bileena Holsteins**, in Agassiz, BC. – a rural farming community about 1 ½ hrs east from Vancouver, in the fertile Upper Fraser Valley— for a 20,000 square foot, 120-cow new state-of-the-art dairy facility. Building planning, and design services were all provided by BuildWorks, in close liaison with the customer to ensure his vision for the new operations were realized, in respect to spacing requirements, efficient animal flow and equipment lay-outs.

by means of gable fans, and ridge vent chimneys, and side-wall curtain ventilation.



The 60' wide x 120' long clear span MegaDome was manufactured by **Harnois Industries Ltd.**, from Quebec, and features hot-dipped galvanized 24 inch deep steel arch trusses for superior corrosion resistance and structural performance. The durable 3 layer woven, flame retardant, white fabric offers both maximum light penetration, and reflection to reduce heat gain. The fabric has tremendous rip, tear and puncture resistance.

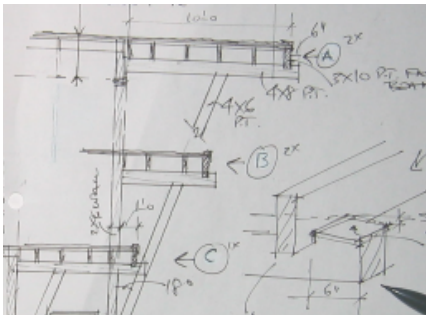
The design and installation of the MegaDome was also done by BuildWorks, MegaDomes' West-Coast Authorized Dealer/Builder.



The architectural design is a unique blend of traditional Fraser Valley farm design, West-Coast timber work and roof lines – most evident at the long sloping roof overhang supported by massive rough-sawn wood timbers.

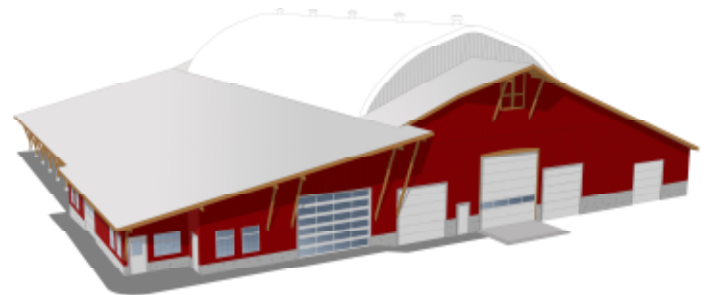
Precast concrete slatted floors—

Precast concrete cattle slats and pre-cast beams, supplied by Langley Concrete Group, were installed over 2 separate underground manure pits, covering a total of 7,700 SF area, and creating about 50,000 cu ft of manure storage.



MegaDome engineered fabric structure—

An engineered fabric MegaDome structure is centered on the drive-thru area of the barn, providing a high level of diffused natural daylight and increased air volume, thereby enhancing cow and people comfort. Ventilation is provided



3D computer rendering assisted in exterior finish and color selections.

White Wood – PVC wall board

For complete ease of maintenance, White Wood ® sheets were installed directly to the wood furring on walls in the Milking Parlour, Dairy and Equipment Rooms. The white smooth Vinyl (PVC) is factory laminated to a ½” exterior plywood backing board, and site-installed with plastic rivets and vinyl mouldings.



Ag-Tuff PVC Liner Panel for Ceilings

To complement the White-Wood ® the ceilings were finished with Ag-Tuff PVC Liner Panels. The square wave profile is attractive and requires near zero maintenance.

