

ABOUT

The Transformation Toolkit is the product of a user-friendly review of best development practices. The most cost-effective and environmentally responsible options have top priority.

OUR BUILDING

A Model Building was conceived as a means of demonstrating the benefits of integrating environmentally responsible materials and practices into development.

To this point, the toolkit corrects an assumption often held by developers: building sustainably is prohibitively expensive.

PRO FORMA

We performed a pro forma (a type of cost analysis for prospective projects) comparing the financial elements of building using conventional practices to building using the practices outlined in our Transformation Toolkit. We found that our building gave a substantially larger return on investment and offered a shorter break even period on the development.

Conventional: Return on Investment: \$4,706,196.35
Break even period: +20 years

Sustainable : Return on Investment: \$7,851,969.97
Break even period: 18 years

**CHANGE IS GOOD.
TRANSFORMATION
IS BETTER.**

Contact Information:

Main Street Dartmouth and Area Business
Improvement Association (BID)

Suite 208-175 Main Street
Dartmouth, Nova Scotia, B2X 1S1

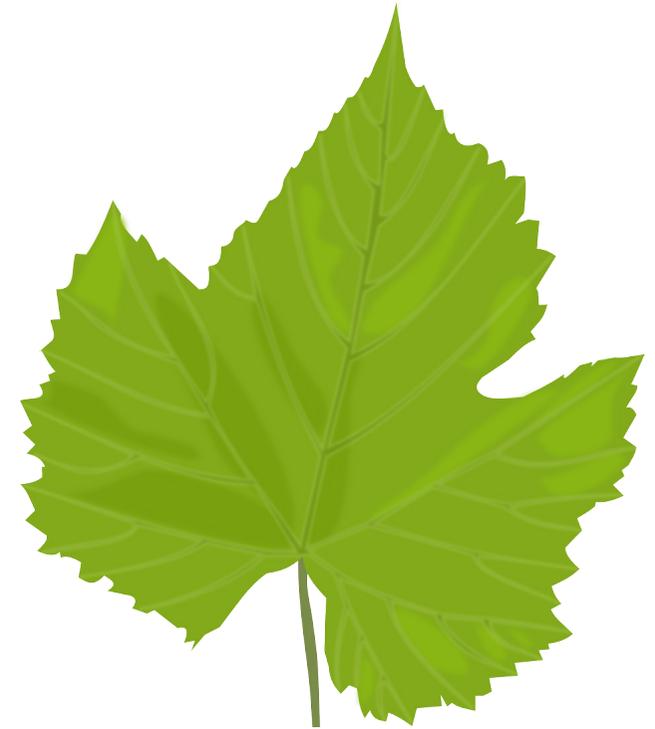
Tel: 902-407-3533
Cell: 902-229-6711

Email: welcome@villageonmain.ca

For more information, a detailed report is available
upon request.

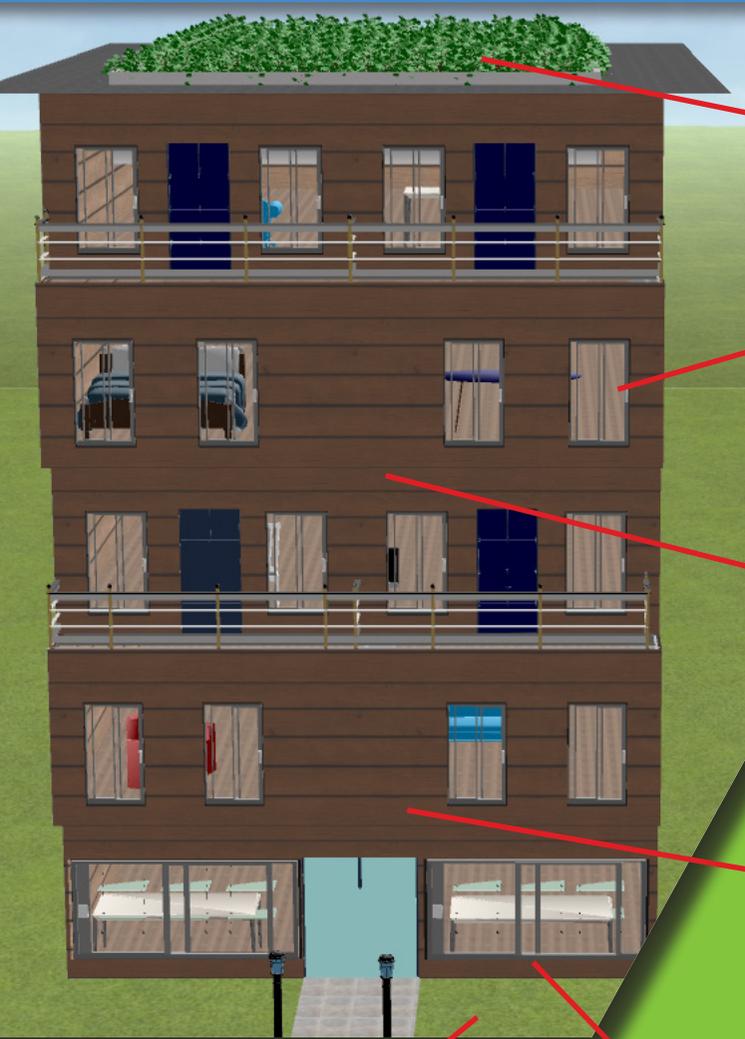
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TRANSFORMATION TOOLKIT



College of Sustainability

TRANSFORMATION TOOLKIT



Green Roof

- Control stormwater runoff
- Reduce heating/cooling costs
- Extend life span of roof membrane
- Improve air and water quality

Windows

Triple-glazed, south-facing windows maximize passive solar heat gain and minimize heat loss

Insulation

- Superinsulation, in the form of thick insulation; R-40 walls, and R-60 roof
- Highly airtight envelope, with 0.8 air changes per hour at 50 Pa
- Heat Recovery Ventilator recovers 80% of heat radiated
- Combined with the selected windows, heating costs drop by 90%!

Building Materials

- Locally sourced where possible
- Upcycled steel

Foundation

- BubbleDeck concrete mixes plastic balls with concrete, using 30% less concrete
- CarbonCure injects waste carbon into concrete

Landscaping

- Use native/climate appropriate plants
- Minimizes need for irrigation



Water efficient fixtures

- Flow limiting faucets/ showerheads
- Front loading washer
- Low flow toilets

Energy efficient fixtures / lighting

- Compact Fluorescent Lights or LED bulbs
- EnergyStar appliances

