

ZTF Zirnhelt Timber Frames

Sustainable by Design

The Whitehorse



This plan designed by

*EcoCentric
Design*

BUILDING NATURALLY

Energy/heating consulting by Craig Olsen

This home was designed for the sub-arctic climate of Whitehorse, Yukon (60°N). The view of the home is oriented to the North so the living room has both south & north exposure. This home employs Hybrid construction techniques. The east wing is framed with staggered 2" framing and foam insulation. The west wing (central area of the home) is timber frame.

The northern setting of this home makes passive solar an important topic. Passive solar concepts include an orientation of living areas to south with relatively large windows, utility spaces are placed on North side as buffer, the walls are insulated at R60, and a maximum of 10% windows were installed of total wall area. A beautiful sun room was designed into the plan for the owners to enjoy and gain benefit from the limited sun in shoulder seasons, when air is still cool.

This home was designed to be a family home with 5 bedrooms. Additional space was added with a recreation room, mud room, studio, workshop and sun room- all of which are separated from living areas by double high entry hall, to help eliminate sound transfer.

At a Glance:

Main	2480 sq ft
Upper level	2040 sq ft
Bedrooms	5
Bathrooms	3
Total living space	4520 sq ft
Garage	928 sq ft

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Upper Level Floor Plan



Main Level Floor Plan



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