

**Private Residence
Steamboat Springs, Colorado
Current**

Architect Elizabeth Metz Architect
Contractor: Fairview Construction
EOR: Russel A. Martino

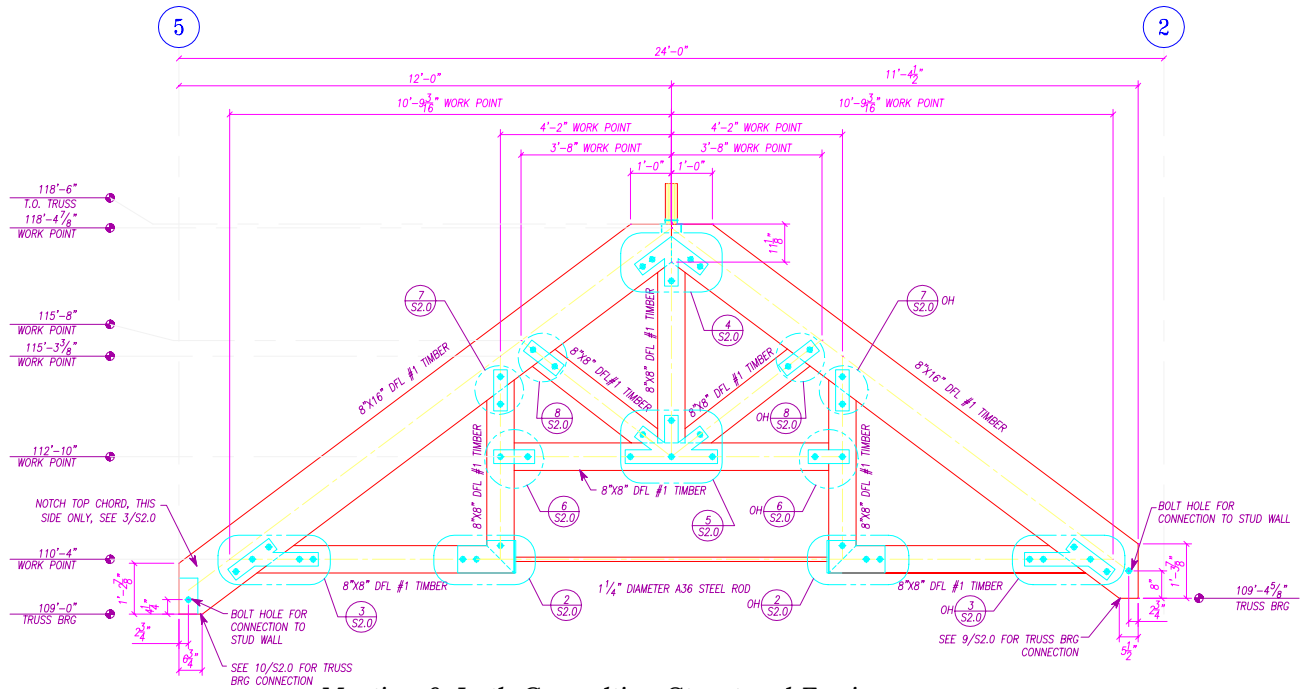
Economical Solutions:

The most economical way to get a vaulted roof on this 6500 square foot custom home in Steamboat Springs Colorado was to use premanufactured scissors trusses. However, the layout of interior walls, intersecting gable ridges, steep interior ceiling slopes, and a flat roof snow load in excess of 100 psf did not lend itself well to Premanufactured trusses. Martino & Luth, Inc made the roof trusses work by providing truss profiles of all the typical and girder trusses while also provided initial calculations determining the size, span and spacing of all the trusses. In addition, we provided all the connections between the scissor trusses and the girder trusses that supported them as well as creating drawings that could be easily adapted to the use of premanufactured wall systems.



Two Ends of the Spectrum

In addition to providing full design and layout of the premanufactured truss and wall systems, Martino & Luth, Inc. provided detailed drawings for the Great Room Timber Truss (below). This created a great mixture of affordability and high end architecture with exposed structure.



Martino & Luth Consulting Structural Engineers