Conceptual Cross Sections
Caboose Canyon 7.5' Quadrangle, Southwest Montana

Notes on cross sections:
Major named thrust faults are shown. Section A-A' was extended about 4 km east of the Caboose Canyon 7.5' quadrangle boundary in order to cover the full extent of the Tendoy thrust sheet. Section B-B' was extended about 8 km east for the same reason. Total thickness of the Beaverhead conglomerate in the footwall of the Tendoy thrust sheet is unknown; a minimum thickness was used to draw these sections. It is likely that significant topography exists at the contact at depth between these synorogenic deposits and prerocogeneic units (Haley, 1983; McDowell, 1997). Significant fold disharmony was noticed between the Scott Peak (MP), Middle Canyon (MMP), Lombard (MB), and McGowan Creek (MMP) Formations. Graphical representation of this folding is displayed in section A-A' along the western portion of the Four Eyes Canyon thrust sheet hanging wall. These fold geometries are based on field measurements of bedding orientations within the Scott Peak Formation. This fold disharmony likely also exists between units of the same age at depth and farther toward the foreland, but is not exposed elsewhere along the sections. A facies change in the Mississippian units is displayed in the central portion of the sections to account for the facies change noticed between Mississippian and Pennsylvanian units exposed in the Tendoy thrust sheet and age-correlative units exposed in thrust sheets closer to the hinterland. The exact geometry and location of this facies change is unknown. The Deadman normal fault truncates Paleozoic and older units at the western edge of both sections. The dip of the Deadman fault is speculative in both sections. In section A-A' the location of the Cabin thrust sheet is obscured by Quaternary deposits in the hanging wall of the Deadman fault.

Cross sections not drawn to exact horizontal scale of map

Datum: mean sea level
No vertical exaggeration
See text for description of units and symbols
Quaternary units mostly not shown