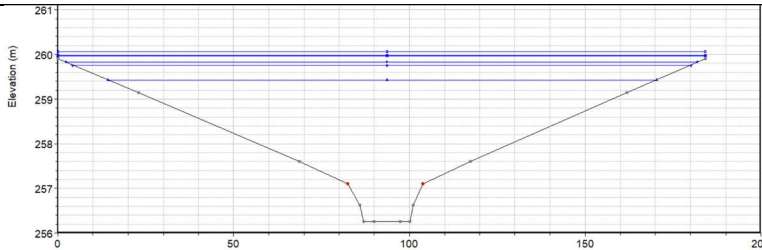
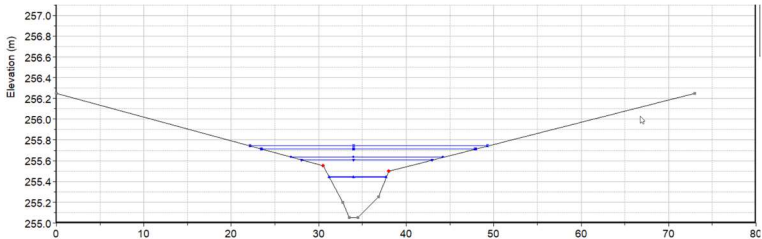


Whati Culvert Crossing Channel Description



Upstream Cross-section View

The upstream channel is characterized as an approximate 3% grade channel with a nominal 10-15m bottom width culvert approach channel found immediately upstream of the crossing. The bank heights are approximately 1 m in height and a substrate mix of cobbles and coarse sand dominates the area. Further upstream the low flow channel narrows to approximately a bottom width of 2-4 m and a top width of approximately 5-6 m



Downstream Cross-section View

The downstream channel possess a considerably steeper grade (~5%) and is similarly found to have a bottom substrate composed of sands and gravels/cobbles. Bank heights are approximately 1 - 0.6 m and the bottom width is considerably narrower at approximately 2 m. The top width is nominally 6-7 m wide.