BF 75718 Hwy 58 Over Beaver Ranch Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 8 m, h = 2.0 m, T_h = 14 m
Use n = 0.04

At Bank Height : Y = 2.0 m, V = 1.6 m/s, Q = 35 cms
At Channel Capacity : Y = 3.0 m, V = 2.3 m/s, Q = 80 cms

Historical Highwater Data :

The 1989 design was based on Y = 2.2m and Q = 60cms.

There are no WSC gauges on this stream. Due to the limited number of gauges in the area, there are no indications of any large runoff responses over the area. The largest storms in the database for this area are in July 1998 with about 110mm and June 1984 with about 100mm.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 300 km^2.
Q_p = 165 cms.

Conclusion :

The channel capacity estimate is consistent with historic observations and is within the basin runoff potential.

Recommended parameters : Y = 3.0 m, V = 2.3 m/s, Q = 80 cms.