BF 00764 Local Road Over Driedmeat Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0006
B = 6 m, h = 1.6 m, T_h = 11 m
Use n = 0.045

At Bank Height : Y = 1.6 m, V = 0.6 m/s, Q = 8 cms
At Channel Capacity : Y = 2.4 m, V = 0.8 m/s, Q = 20 cms

Historical Highwater Data :

A 1954 report notes a HWM to the deck(Y = 1.8m) and over the grade. A 1963 report notes HWM over the grade at the existing culvert (Q ~ 5cms).

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1974, and March 1985. No storms in the storm database exceed 100mm for this area.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 370 km^2.
Q_p = 90 cms.

Conclusion :

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

Recommended parameters : Y = 2.4 m, V = 0.8 m/s, Q = 20 cms.