BF 86145 Hwy 695 Over Unnamed Watercourse
Hydrotechnical Summary

Channel Capacity :

S = 0.00025
B = 3 m, h = 1.2 m, T_h = 5 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.3 m/s, Q = 1.3 cms
At Channel Capacity : Y = 1.8 m, V = 0.4 m/s, Q = 3 cms

Historical Highwater Data :

There is no historic HW data for this site. File history contains photographs from an inspection done by Donald Saunders which suggest flow inside the culver at the day of inspection of about 1 m deep but the water hardly moving. Channel cross sections photographed are documented as man-made.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 5 km^2.
Q_p = 2.75 cms.

Conclusion :

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

Recommended parameters : : Y = 1.8 m, V = 0.4 m/s, Q = 3 cms