

FHWA CULVERT ANALYSIS, HY-8, VERSION 6.0

CURRENT DATE	CURRENT TIME	FILE NAME	FILE DATE
06-02-2003	16:13:53	ENERGY4	06-02-2003

CULVERT AND CHANNEL DATA

CULVERT NO. 1	DOWNSTREAM CHANNEL
CULVERT TYPE: 1200 mm CIRCULAR	CHANNEL TYPE: IRREGULAR
CULVERT LENGTH = 92.464 m	BOTTOM WIDTH = 1.500 m
NO. OF BARRELS = 1.0	TAILWATER DEPTH = 0.768 m
FLOW PER BARREL = 8.500 m <sup>3</sup> /s	TOTAL DESIGN FLOW = 8.500 m <sup>3</sup> /s
INVERT ELEVATION = 52.570 m	BOTTOM ELEVATION = 52.581 m
OUTLET VELOCITY = 7.516 m/s	NORMAL VELOCITY = 4.876 m/s
OUTLET DEPTH = 1.201 m	

USBR TYPE 6 DISSIPATOR - FINAL DESIGN

BASIN OUTLET VELOCITY = 0.992 m/s

W = 4.877 m	W1 = 0.381 m	W2 = 0.914 m
L = 6.502 m	L1 = 2.769 m	L2 = 3.734 m
H1 = 3.734 m	H2 = 1.829 m	H3 = 0.813 m
H4 = 2.032 m	T1 = 0.229 m	T2 = 0.305 m
T3 = 0.305 m	T4 = 0.305 m	T5 = 0.152 m

USBR TYPE 6 DISSIPATOR HY-8 PROGRAM OUTPUT

**Figure 34-9G**