



SYM	$W_O$ (m)	$Q$ ( $m^3/s$ )	$V_{AVE}$ (m/s)	TW (m)
□	0.44	0.64	4.60	0.49
◻	0.44	0.41	3.14	0.49
○	0.94	1.85	2.83	0.94
●	0.94	2.38	3.63	0.94
▽	0.44	0.59	4.27	0.38
▽	0.44	0.39	2.83	0.38

Note: To be used for predicting channel velocities downstream from culvert outlets where high tailwater prevails. Velocities obtained from the use of this figure can be used with Figure 2 of HEC 11 for sizing rip rap. (Do not use Fig of HEC 11: use Mean Velocity Values.)

### DISTRIBUTION OF CENTERLINE VELOCITY FLOW FROM SUBMERGED OUTLETS

Figure 34-8D