

The Foothills

Pino Arroyo Easement Curves

BOTTOM WIDTH (ft)	SIDE SLOPES	MAX WATER DEPTH ¹ (ft)	MAX VELOCITY ¹ (ft/s)	CURVE RADII IN (ft)	CURVE RADII OUT (ft)	EASM'T CURVE LENGTH ² (ft)
20	2	3.70	29.77	500.0	1000.0	117.4

1) From HEC-RAS Calcs

2) Easement curves for trapezoidal channels (per DPM section 3.B.2)

$$L_E = 0.32V(b+2zD)/D^{1/2}$$

where: b= bottom width

z=cotangent of bank slope (1/2 in this case)

r=radius (assume 500' worst case)