Worksheet
Worksheet for Trapezoidal Channel

Project Description	
Worksheet	D-37U
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.030	
Slope	0.080000	ft/ft
Left Side Slope	1.00	V : H
Right Side Slope	1.00	V : H
Bottom Width	0.00	ft
Discharge	1.25	cfs

Results		
Depth	0.52	ft
Flow Area	0.3	ft²
Wetted Perimeter	1.48	ft
Top Width	1.05	ft
Critical Depth	0.63	ft
Critical Slope	0.030641	ft/ft
Velocity	4.55	ft/s
Velocity Head	0.32	ft
Specific Energy	0.32	ft
Froude Number	1.57	
Flow Type	Supercritical	

Use Minimum Depth = 1.0 ft Velocity < 5 fps	Minimum Freeboard = 0.30 ft No riprap required