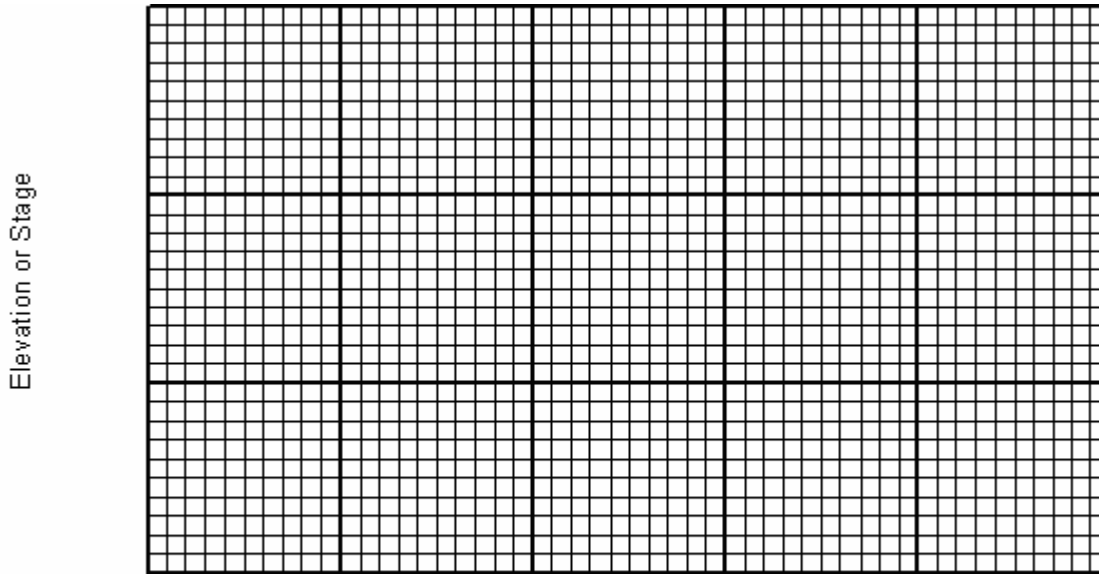# TR 55 Worksheet 6B: Detention Basin Storage,
Peak Outflow Discharge (q$_o$) Known

Project: _____   Location: _____

Circle one: Present   Developed

Detention Basin Storage

(y-axis label: Elevation or Stage)

	1st Stage	2nd Stage
6. $\underline{V_s}$		

1. Data:

   Drainage area, A$_m$ ....   = _____ mi^2
   Rainfall distribution
     Type (II, III, DMV) .... = _____

6. $\underline{V_s}$ ....
   V_r
   (Use $\underline{q_o}$ with Figure 6-1)
        q_i

	1st Stage	2nd Stage
2. Frequency .... yr		

7. Runoff, Q .... in
     (From Worksheet 2)

1st Stage	2nd Stage

3. Peak inflow discharge,
     q$_i$ .... cfs
   (From worksheet 4 or 5b)

8. Runoff Volume, Vr .... ac-ft
     (V_r = 53.53 QA$_m$)

9. Storage Volume, V_s .. ac-ft
     $V_s = V_r (V_s / V_r)$

4. Peak outflow discharge,
     q$_o$ [1] .... cfs

10. Maximum stage, E$_{max}$ ....
     (From plot)

5. Compute $\underline{q_o}$ ....
            q_i

[1] 2nd stage q$_o$ includes 1st stage q$_o$.

Designed By: _____   Date: _____

Checked By: _____   Date: _____