



# Technical + Design Methodologies for recreating a natural water system:

- Respect water volume and velocity (substrate design) – collaborate with an innovative wildlife biologist/ecologist, a hydrologic engineer, and other technical disciplines.
- Flowing lines (minimize abrupt transitions for stability)
- Gentle side slopes (less than 1:4)
- Microtopography to retain water and create varying levels of soil saturation\*
- Natural structural elements (increase wildlife habitat)\*
- Materials reflect context and function (ex., stone color, form, texture)
- Plant massing vs. diversity (mutually exclusive?)
- Bioengineering for stabilization – plant material instead of stone, or balance plant material with stone