



Storm Water Design Utilizing Low Impact Development (LID)



Storm Water Management

When property is developed, the amount of impervious surface area often increases. This results in a higher amount of runoff leading to downstream flow problems, pollution and fertilizer runoff and possible impacts to aquatic life.

Traditionally, storm water flows are collected and concentrated until they are discharged into a surface water body such as a storm water pond or a stream.

Low Impact Development takes a different approach in that it “disconnects” the impervious surfaces and allows much of the water to be filtered by the soil on site. This allows for a reduction in the volume of runoff and the pollutant load that the runoff carries. Extra benefits emerge due to a reduction in the amount of irrigation water that is used for a facility.

AWT can help you through every phase of the development process to ensure the project maintains the lowest environmental impact while increasing the aesthetic and operational functionality of the project. This can all be accomplished with total project costs rivaling traditional storm water management.

LID Benefits

- ❖ Reduction in peak flows during storm water events
- ❖ Storm water reuse for irrigation of landscapes
- ❖ Reduction in pollution and fertilizer runoff
- ❖ Possible increases in lot yield
- ❖ Less damage due to stream bank erosion
- ❖ More open space
- ❖ Ability to claim storm water credits
- ❖ Reduced infrastructure costs
- ❖ Publicity and goodwill

Storm Water Management Tools

AWT can design and manage construction with the following techniques:

- ❖ Porous concrete
- ❖ Bioretention ponds and rain gardens
- ❖ Cisterns
- ❖ Efficient landscape irrigation techniques
- ❖ Amended soils



Give AWT a call and let us help you with your next LID project!

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