

## GREEN INFRASTRUCTURE PLANNING

### MAYOR CHERYL K. FARIVAR, and the LEAVENWORTH CITY COUNCIL

would like to announce that the City has begun the development of a Regional Stormwater Wetlands Master Plan.

The goal of the project is to characterize the existing landscape, including wetlands, and stormwater management issues, identify potential stormwater / watershed corridors and provide the basis for a detailed Master Plan that will contain engineering, environmental analyses, design for the development of a Green Infrastructure Plan for the City. The study area focuses on both the land currently within the City and the City's Urban Growth Area. Mayor Farivar acknowledged that the number one goal in developing the proposal for the project and subsequent funding was getting the support of the community. The project was developed out of a community wide Wetland Symposium sponsored by the City Council and Chelan County in June of 2013.

The project got underway in early April 2015, and ecoPlan Design is lead on green infrastructure identification and description, and identifying development practices that would enhance a green infrastructure for the Master Plan. These include visualization and bringing the science behind the Plan to the community in a comprehensible manner which will: 1) provide meaningful information that integrates the science into understandable concepts, 2) encourage opportunities for interaction and discussion, 3) link concepts to the community and real world, 4) work to clearly explain the Master Plan, and 5) provide opportunities for the community to develop and understand strategies and goals of the Plan.

As work progresses, the community will be invited to "citizen outreach and forums." The first one is scheduled for the evening of June 4th at 6:30 in the Festhalle to discuss the beginnings of the Plan. The project is expected to be completed early in 2016 .



Information may be accessed from the City  
of Leavenworth webpage  
[www.cityofleavenworth.com](http://www.cityofleavenworth.com).

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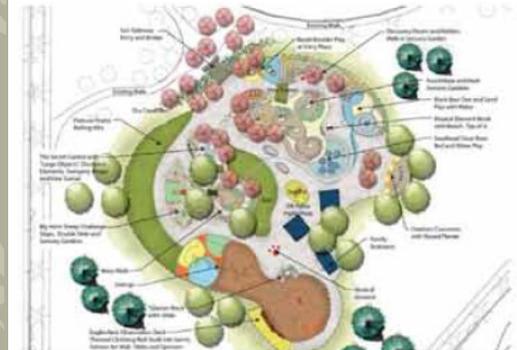


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## Regional Stormwater Wetlands Master Plan

## Green Infrastructure Information



# GREEN INFRASTRUCTURE

**Green infrastructure** is an approach to water management that protects, restores, or mimics the natural water cycle. Green infrastructure is effective, economical, and enhances community safety and quality of life. It means planting trees and restoring natural areas and wetlands, rather than building a costly new water treatment plant or other facility that emulates natural conditions.

EcoPlan and Design, working with Grette Associates and Pacific Engineers, will identify the green infrastructure types and locations that are possible for the drainage systems. Green infrastructure corridors will be identified and the type of facilities feasible for those corridors described.

Those facilities may include community parks and natural areas, wetlands, either constructed or natural, natural swale areas, floodplain or channel storage areas, infiltration areas and other measures to reduce flooding, erosion and water quality problems. An analysis of property requirements will be performed, options / alternatives provided, and a description of permits likely needed to implement the construction of the corridor will be outlined.

In areas where significant wetlands may be incorporated into green infrastructure corridors, a description of the current wetland function in terms of hydrology, vegetation and wildlife habitat will be prepared and strategies outlined to improve their function as components of a green infrastructure corridor. Best Management Practices (BMPs) will be identified that could potentially enhance green infrastructure for storm water infiltration/treatment and storage flow control along with potential low impact development (LID) features that may be implemented. Potential benefits of wetland mitigation will also be evaluated.

EcoPlan and Design, working with Grette and Pacific Engineers, will develop maps showing locations of potential green infrastructure corridors along with recommendations for the type of facilities that could be contained within those corridors.



EcoPlan and Design will create typical concept designs for green-space recreational trails, public access and enhancement potentials. With proximity to the local schools, educational opportunities exist for outdoor classrooms for biology, chemistry and field trips/nature walks will be discussed and/or incorporated. Along with the proposed facilities, discussions with the property ownership, permitting requirements and regulatory issues with implementing those facilities will be outlined.

It is recognized that development practices influence the rate and timing of runoff, affect the surface water/groundwater interflow action and can impact water quality through stormwater runoff and other sources of contaminants. The Green Infrastructure component of the Master Plan will address development practices that modify runoff and stormwater to ensure water management functions properly, and costs to the City and public are minimized through this type of development. The methods include stormwater management best management practices (BMPs) required in the Stormwater Management Manual for Eastern Washington, low-impact development (LID) practices that have been successfully used in other jurisdictions, and regulatory changes to promote LID practices. A set of recommendations will be developed for consideration in the development of the Master Plan along with a discussion of their potential impacts to property owners regarding development potentials / limitations and costs.

