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 a Women Business Enterprise (WBE)

Statement of Qualifications

Company Overview

A certified Oregon Women Business Enterprise (WBE) in sustainable land development consulting

Established in: June 2008

Certifications: Oregon Women Business Enterprise (WBE); M/W/ESB # 5591

Fee Structure: Green Girl LDS has two fees: light green projects (\$100/hour) and deep green projects (\$80/hour). Please visit the website or contact Maria for more info on determining the fee for your project.

Brief scope of services: Green Girl Land Development Solutions is a sustainability consulting firm dedicated to providing technical assistance, project-based collaboration, and training to anyone involved in development projects interested in capitalizing on sustainable site design approaches. Armed with the latest science and best practice, Green Girl LDS has developed tools and methods geared to maximize the opportunities not only to the physical site, but also to the community while working within limited budgets.

Areas of expertise in the master planning, design, construction, and post-construction phases of a project include:

- Materials management & choices
- Sediment prevention & erosion control
- Grading
- Utility
- Stormwater Management



Green Girl LDS, Maria has performed an array of tasks including:

- Technical assistance to developers, architects, landscape architects and contractors at all stages of development from master planning to post-construction
- Create and implement workshops in subjects like porous pavements, raingardens, master planning and post-occupancy stewardship for a wide range of audiences, from homeowners to civil engineering firms and public works officials.
- Green site tours
- Numerous presentations and classes

- Preliminary design & modeling
- Charrette facilitation
- Reviews of green building and site certifications and fact sheets to educate contractors and the public

Maria Cahill's Previous Work Experience

Civil Engineering Designer & Project Manager



Maria Cahill earned a bachelor's degree in Civil Engineering from the Pennsylvania State University. For eight years before moving to Oregon, she worked for pioneers of holistic land development in landscape architecture (Andropogon Associates and Viridian Landscape Studio) and engineering firms (Cahill Associates) with planning and design experience on National Park Service visitor centers, urban redevelopment projects, universities, summer camps, historic sites, religious communities ranging in size from less than one to 3000 acres.

In the four years before starting Green Girl LDS, Maria carried out civil engineering design and project management to create construction documents and secure permits for some of the leading sustainable projects in the Portland metropolitan region including two Living Building Challenge projects. In this time, she established herself as a creative problem solver with both private design team members and public agencies.

Additional Qualifications

- Secretary, Multnomah Village Neighborhood Association Board
- Board Member, Oregon Community Trees
- Working Member, Metro's Regional LID Maintenance Technical Advisory Committee
- PCC Civil & Mechanical Engineering Technology Advisory Committee
- Certified Erosion and Sediment Lead (CESCL)

To provide accurate, holistic advice to her clients, Maria engages in constant professional development in a range of areas to keep up the latest research in site design, stormwater, social

equity, and ecology. By design, her business model leaves plenty of room for this. Maria recently spoke at and attended the 3-day International Phytoremediation Conference in Portland, OR and the 3-day 2011 LID Symposium in Philadelphia, PA.

Green Business Operations

Awards: City of Portland RecycleWorks

Maria reduces her business footprint through numerous green business operations including electronic deliverables, salvaged paper, biking to meetings, careful energy and water use, green power, and carbon offsets.

Selected Project Experience

All or almost all of my work is developed in collaboration with my clients and stakeholders. **Green highlighting** indicates a current job.

Bend Demonstration Projects, Bend, OR

Working as a subcontractor to HWA, engineering consultant to the City of Bend Transportation Department. Project uses infiltration rain gardens and planters to solve flooding at a downtown site and to meet new stormwater management standards for planned sidewalks under a Safe Routes to School grant at a more suburban site.

- Design review and technical assistance
- Develop maintenance & monitoring plan
- Provide quality assurance

Redding School of the Arts, Redding, CA

A charter school on 20 acres with rainwater harvesting, native landscapes, teaching and gathering spaces, and a wooneerf drop-off area to slow traffic and increase safety. Subconsultant to Shapiro-Didway Landscape Architecture.

- Design review and technical assistance
- Participated in brainstorming meeting to calm traffic resulting in a universal street at the drop-off
- Performed literature review and generated decision-making report comparing water quality facilities
- Designed and modeled the water quality facilities and trouble shoot construction issues
- Assisted with LEED documentation on stormwater

Coos Watershed Association Coos Bay, OR

A 5-acre green field where the new Food Bank, Head Start, and Child & Family Resource Center buildings will be built. Site amenities designed around existing sensitive wetlands include parking, sidewalks, community garden, playground, and gathering spaces.

- Assembled an LID Technical Assistance team through an OR DEQ 319 grant to assist Oregon Coast Community Action
- Reviewed master plan
- Reviewed engineering and landscape design and provided designs, details and specifications for porous pavement, rain gardens, soil protection and restoration and much more.

Trillium Hill, Tigard, OR

A proposed aging-in-place conservation development on 3.2 acres to include saved trees, universal streets, rainwater harvesting, vegetated basins, a public access path through the site, and many non-structural practices.

- Design review and technical assistance
- Developed and facilitated eco-charrette workshop
- Provided narratives, details, and decision making guidance on best management practices

Multnomah Antiques, Portland, OR

A commercial redevelopment of a constrained urban site. Includes rain gardens, overland flow, depaving, & more.

- Engineering design
- Provided information and helped team implement best practices for soil restoration, erosion control, & habitat.
- Landscape design review

St. Andrews Lutheran Church, Beaverton, OR

A faith community that expanded their building and reconfigured parking to meet current development standards. Project includes rain gardens & native buffer restoration.

- Design review and technical assistance by providing design modifications to engineering grading & details
- Construction meeting with contractors to help them meet post-construction functional goals for rain gardens

Outreach Efforts

Connect the Drops, Metro Portland region, OR

An outreach effort by Metro's Nature in Neighborhoods program to increase acceptance of low impact development stormwater facilities.

- Photograph over 150 stormwater facilities throughout the region over the course of two different contracts

Tree Protection on Construction & Development Sites

A statewide field book created by the Oregon Department of Forestry to educate contractors about the importance of trees and strategies for saving them

- Review, comment, and provide resources

Stormwater Solutions, Salem, OR

A web-based tool developed by the Oregon State University Extension to help rapidly urbanizing coastal communities in Oregon adopt low impact development strategies

- Review and edit existing fact sheets and write new ones including "Rain Gardens", "Porous Pavements", "Green Roofs", "Planters", "Vegetated Filter Strips", "Drywells", "Soakage Trenches", and "Infiltration Testing"
- Develop resources for deliverables (AutoCAD details, specifications)



Oregon Environmental Council Stormwater Solutions Low Impact Development Brochure

A statewide brochure for public and private stormwater practitioners and planners giving an overview of LID

- Review, comment and provide resources

Metro Nature in Neighborhoods Connect the Drops, Portland, OR

An outreach effort by Metro's Nature in Neighborhoods program to raise awareness and increase acceptance of low impact development stormwater facilities.

- Photographed over 150 stormwater facilities throughout the region over the course of two different contracts



Classes, Trainings, & Field Classes

Maria has presented and taught many times in the last 7 years to developers, planners, scientists, architects, landscape architects, engineers, contractors, maintenance staff, college students, and homeowners at governmental agencies and non-profit trainings, engineering and environmental conferences, colleges and universities, professional membership organizations, and more.

LID Academy, Albany, OR

An continuation of OSU Extension's Stormwater Solutions to provide trainings and technical assistance to six small cities that want to incorporate low impact development to meet TMDLs and solve other hydrologic challenges.

- Collaborated on two templates, stormwater plan & design manual
- Will develop workshops on bioretention, porous pavement, tree canopy, & other LID topics
- Provide technical assistance between workshops to implement codes, policies, & projects as needed.

Oregon Environmental Council Stormwater Solutions, various cities, OR

An educational series for public and private stormwater practitioners and planners in Western Oregon.

- Presented Sustainable Principles for Land Development in Eugene and Grants Pass.
- Developed and facilitated all-day workshop on LID from the early planning phases through design, construction, and operations and maintenance

Portland Community College's Summer Sustainability Institute, Portland, OR

A class geared to train educators about sustainability

- Developed a talk focused on developing curriculum around sustainable land development principles and practices

Vegetated Stormwater Facilities Technical Field Class (aka Rain Gardens 201), Portland, OR

- Developed and administered a class for private and public land development professionals and contractors to learn about how small changes in design can affect the long-term functioning & maintenance needs of a facility.

Mt. Hood Community College, Maywood Park, OR

CCB approved core continuing education credits in Green and Sustainable Building Practices for contractors licensed in Oregon.

- Taught classes on "Sustainable Site Planning", "Site Strategies for Energy & Fuel Efficiency" & "Best Practices for Sustainable Sites Under Construction"

East Multnomah Soil & Water Conservation District, Portland, OR

An LCB approved core continuing education credits for contractors building rain gardens

- Teach the portion of the class on challenging sites and materials choices (ongoing).

Project References

Trillium Hill

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Multnomah Antiques

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Training References

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