

Slow The Flow

Columbia Association's Rain Garden Cost Share Program



Rain Garden Cost Share

The Columbia Association, through a grant from Maryland Department of Natural Resources will pay 75% of the installation cost and has a landscape firm on contract for installation.

The following designs are available to Columbia resident's in the Little Patuxent watershed, which includes the Villages of Owen Brown, Oakland Mills, Dorsey Search, Long Reach, Town Center and Wilde Lake and portions of the Villages of Kings Contrivance, Hickory Ridge and Harper's Choice.











Carex stricta



Juncus effuses



Schizachyrium scoparium



Osmunda cinnamomea



Rudbeckia fulgida



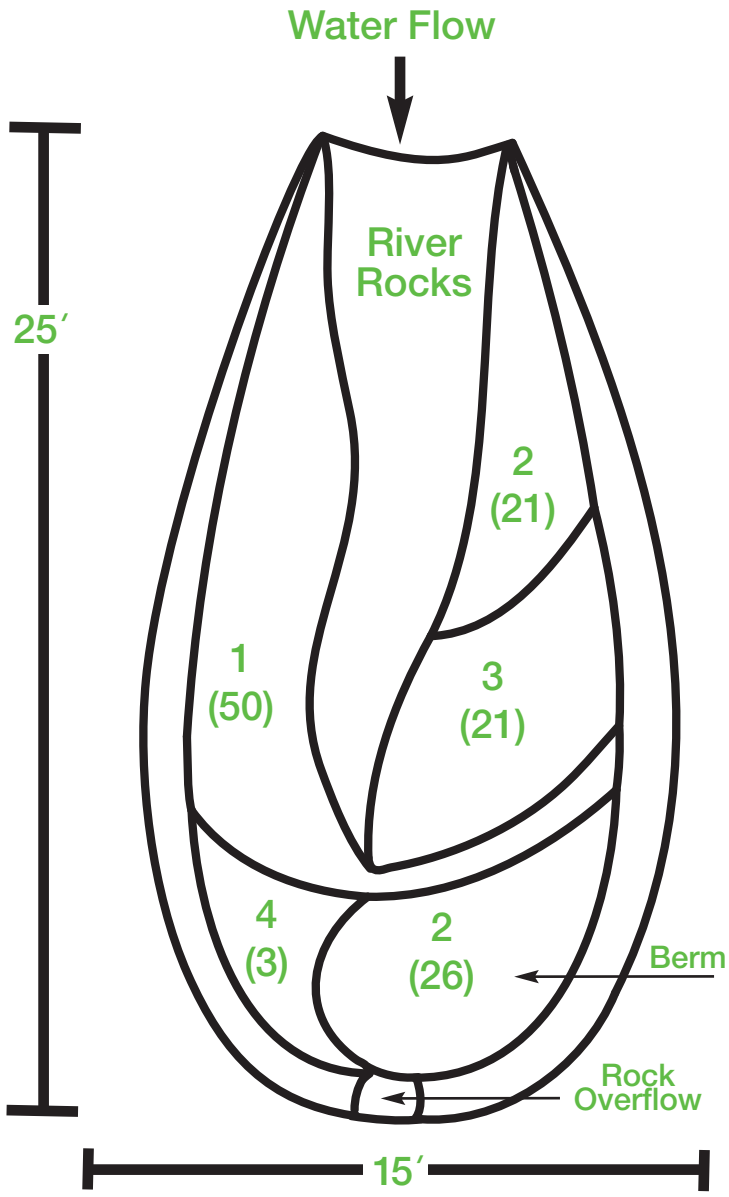
Onoclea sensibilis



Liatris spicata



Cornus ammomum



RAIN GARDEN #1 350 SQ FT

Rain Garden Template for Columbia Association by Howard County MD Master Gardeners *July 2011*

SUN

	COMMON NAME	LATIN NAME	COMMENTS
1[	*Tussock Sedge	*Carex stricta*	1-3.5′ clumping grass
	Little Bluestem	*Schizachyrium scoparium*	1-5.4′ clumping grass
2[	*Orange Coneflower	*Rudbecki fulgida "Goldstrum"*	1.5-3.5′ with yellow flowers Jul-Oct
	Coreopsis	*Coreopsis verticillata*	0.5-3.5′ with yellow flowers Jul-Sep
3[	*Beebalm	*Mondarda didyma*	2-5′ with red flowers Jul-Sep
	Gayfeather	*Liatris spicata*	1-6′ with rose-purple flowers Jul-Aug
4[	*American Beautyberry	*Callicarpa americana*	6′ with lavender flowers Jun-Aug lavender berries in Sep-Mar
	Black Chokeberry	*Photinia melanocarpa*	6′ with white flowers Apr-May, blackberries Sep-Nov

SEMI-SHADE

1[	*Soft Rush	*Juncus effuses*	3′ grass
	Tufted Hairgrass	*Deschampsia cespitosa*	18" with purple-tinged panicles Jun-Aug
2[	*Coral Bells	*Huechera americana*	1-2′ nice foliage, tiny flowers on spikes Apr-Jun
	False Apirea	*Astilbe*	1-3′ with plume-like flowers Jun-Jul
3[	*Cinnamon Fern	*Osmunda cinnamomea*	2-5′ fronds, brown spike seed heads in fall
	Sensitive Fern	*Onoclea sensibilis*	1-3.5′ fronds
4[	*Silky Dogwood	*Cornus amomum*	6-12′ with white flowers spring
	Black Chokecherry	*Photinia melanocarpa*	3-6′ with white flowers Apr-May, black berries Sep-Nov

Total cost $3950, cost to resident $988 **Shape subject to site specific modifications**

*first choice



Carex stricta



Juncus effuses



Panicum virgatum



Osmunda regalis



Chelone glabraea



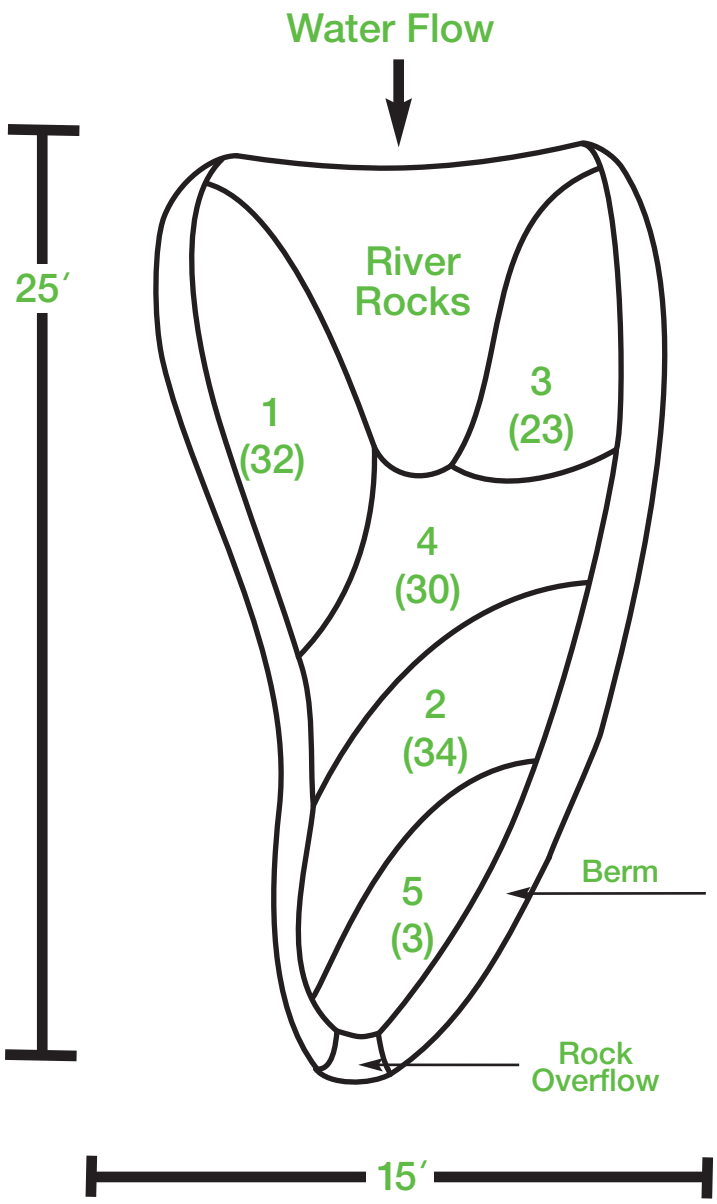
Osmunda cinnamomea



Liatris spicata



Rhododendron periclymenoides



RAIN GARDEN #2 225 SQ FT

Rain Garden Template for Columbia Association by Howard County MD Master Gardeners *July 2011*

	COMMON NAME	LATIN NAME	COMMENTS
SUN			
1[	*Tussock Sedge	*Carex stricta*	1-3.5′ clumping grass
	Switch Grass	*Panicum virgatum*	3-6′ clumping grass
2[	*Gayfeather	*Liatris spicata*	1-6′ with lavender spikes Jul-Aug
	Purple Coneflower	*Echinacea purpurea*	2-3′ with lavender flowers Jul-Sep
3[	*White Turtlehead	*Chelone glabra*	1.5-6′ with white blooms Jul-Oct
	Common Boneset	*Eupatorium perfoliatum*	1-5′ with white blooms Jul-Sep
4[	*Coreopsis	*Coreopsis verticillata*	0.5-3.5′ with yellow blooms Jun-Oct
	Orange Coneflower	*Rudbeckia fulgida 'Goldstrum'*	1.5-3.5′ with yellow blooms Jun-Oct
5[	*American Beautyberry	*Callicarpa americana*	6′ with lavender flowers Jun-Aug, lavender berries Sep-Mar
	Sweet Pepper Bush	*Clethra alnifolia*	6-12′ white/pine flowers Jul-Aug
SEMI-SHADE			
1[	* Soft Rush	*Juncus effuses*	3′ grass
	Switch Grass	*Panicum virgatum*	3-6′ clumping grass
2[	* Cinnamon Fern	*Osmunda cinnamomea*	2-5′ fronds brown spike seed heads in fall
	Royal Fern	*Osmunda regalis*	1.5-6′ fronds
3[	* Coral Bells	*Heuchera americana*	1-2.5′ nice foliage, tiny flowers Apr-Jun
	False Spirea	*Astilbe*	1-2.5′ with plume-like flowers Jun-Jul
4[	*Lyre-leaf Sage	*Salvia lyrata*	1-2′ with violet flowers Apr-Jun
	Mist Flower	*Eupatorium coelestinum*	1-3.5′ with purple flowers Jul-Aug
5[	*Oak-Leaf Hydrangea	*Hydrangea quercifolia*	6-8′ with white cone-shaped flower clusters in spring
	Pink Azalea	*Rhododendron periclymenoides*	3-10′ with white/pink blooms Apr-May, orange/scarlet fall foliage.

Total cost $2950, cost to resident $738 **Shape subject to site specific modifications**

*first choice



Panicum virgatum



Carex stricta



Andropogon virginicus



Kalmia angustifolia



Monard didyma



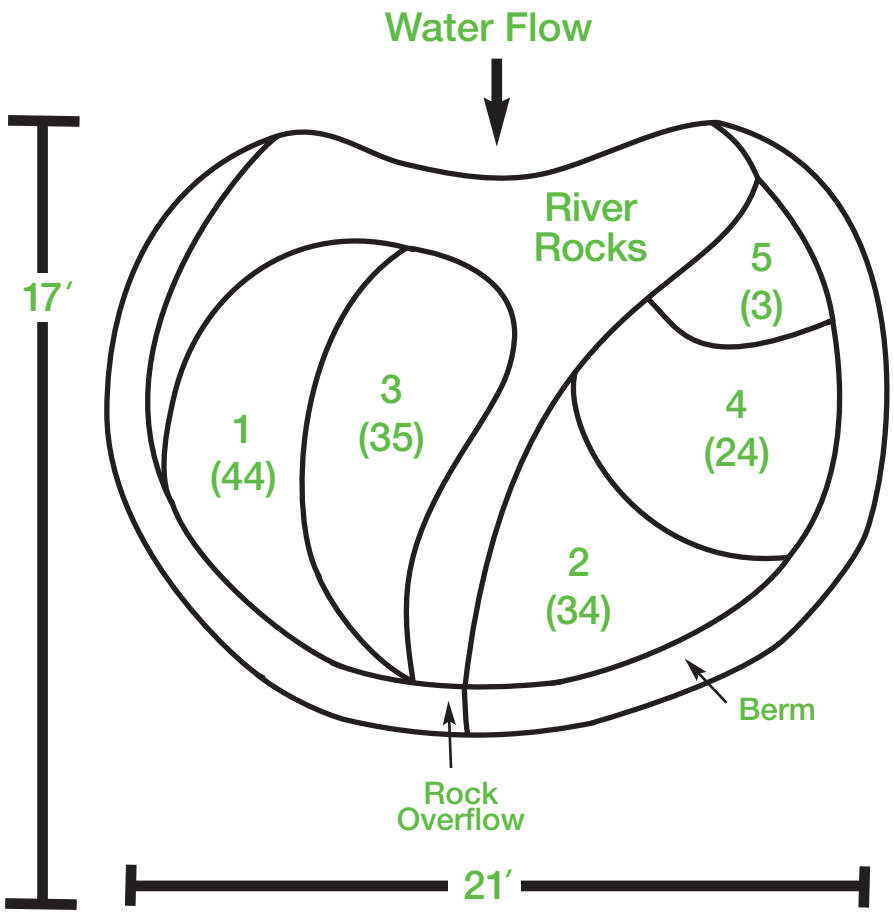
Eupatorium coelestinum



Rudbeckia hirta



Heuchera americana



RAIN GARDEN #3 300 SQ FT

Rain Garden Template for Columbia Association by Howard County MD Master Gardeners *July 2011*

SUN

	COMMON NAME	LATIN NAME	COMMENTS
1	*Switch Grass	*Panicum virgatum*	3-6′ clumping grass
	Broom Sedge	*Andropogon virginicus*	1-3′ with red brown plumes Jul-Aug
2	*Purple Coneflower	*Echinacea purpurea*	2-3′ with lavender flowers Jul-Sep
	Beebalm	*Monard didyma*	2-5′ with red flowers Jul-Sep
3	*Black Eyed Susan	*Rudbeckia hirta*	1.5-3.5′ with yellow flowers Jul-Oct
	Coreopsis	*Coreopsis verticillata*	0,5-3.5′ with yellow flowers Jun-Oct
4	*Lyre-Leaf Sage	*Salvia lyrata*	1-2′ with violet flowers Apr-Jun
	Blue Flag	*Iris vericolor*	3′ with blue flowers May-Jun
5	* Red Osier Dogwood	*Cornus sericea*	6-8′ with white flowers in spring, small red twigs
	American Beautyberry	*Callicarpa americana*	6′ with lavender flowers Jun-Aug, lavender berries Sep-Mar

SEMI-SHADE

	COMMON NAME	LATIN NAME	COMMENTS
1	* Tussock Sedge	*Carex stricta*	1-3.5′ clumping grass
	Switch Grass	*Panicum virgatum*	3-6′ clumping grass
2	* Sheep Laurel	*Kalmia angustifolia*	2-3′ with white/pink blooms May-Jun, evergreen
	Mist Flower	*Eupatorium coelestinum*	2-3′ with blue to violet flowers late summer
3	*Cinnamon Fern	*Osmunda cinnamomea*	2-5′ fronds, brown spike seedheads in fall
	Royal Fern	*Osmunda regalis*	1.5-6′ fronds
4	* False Spirea	*Astilbe*	1-2.5′ with plume-like flowers Jun-Jul
	Coral Bells	*Heuchera americana*	1.2-5′ good foliage, tiny flowers on spikes Apr-Jun
5	Oak-Leaf Hydrangea	*Hydrangea quercifolia*	6-8′ with white cone-shaped flower clusters in spring
	Pink Azalea	*Rhododendro periclymenoides*	3-10′ with white/pink blooms Apr-May, orange-scarlet fall foliage

Total cost $3850, cost to resident $963 **Shape subject to site specific modifications**

*first choice



Carex stricta



Juncus effuses



Schizachyrium scoparium



Panicum virgatum



Ilex verticilla



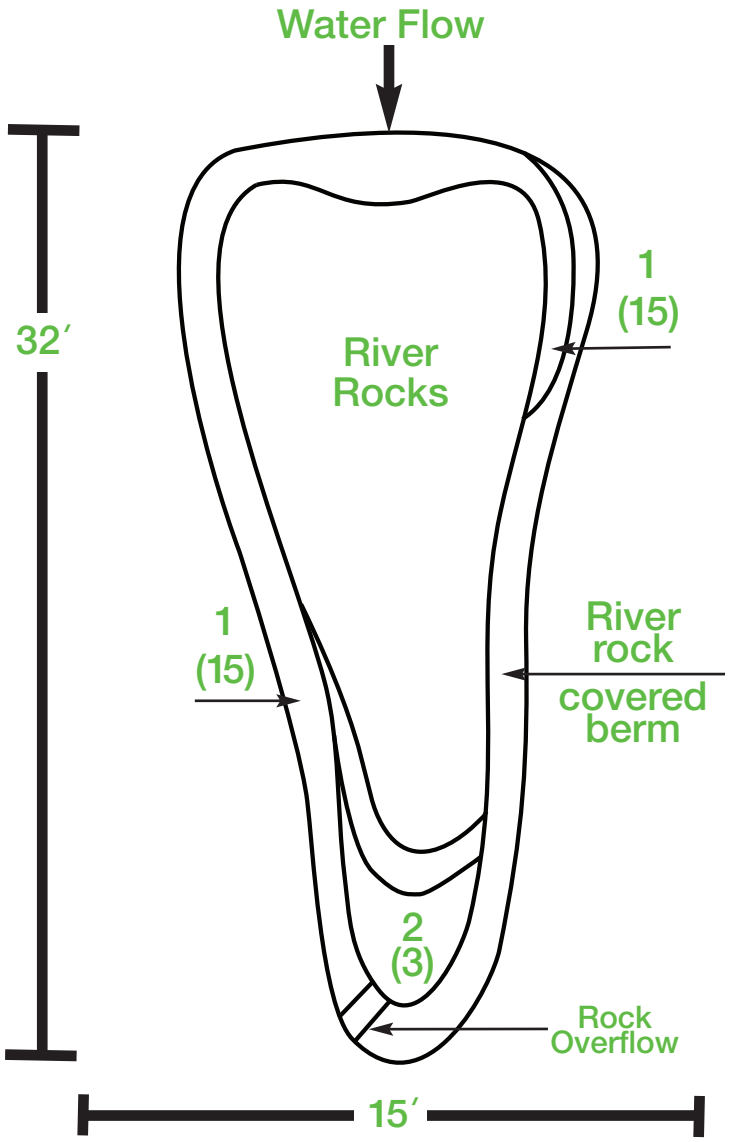
Hydrangea quercifolia



Cornus stolonifera



Cornus amomum



RAIN GARDEN #4 ROCK GARDEN 250 SQ FT

Rain Garden Template for Columbia Association by Howard County MD Master Gardeners *July 2011*

	COMMON NAME	LATIN NAME	COMMENTS
SUN 1	*Tussock Sedge	*Carex stricta*	1-3.5′ clumping grass
	Little Bluestem	*Schizachyrium scoparium*	1.5-4′ grass
SUN 2	*Winterberry	*Ilex verticilla*	6-12′ with white blooms May-Jul; red berries Sep-Mar. Must plant one male to fertilize female plants
	Red Osier Dogwood	*Cornus stolonifera*	7-9′ white blooms in spring; red twigs in fall
SEMI-SHADE 1	*Soft Rush	*Juncus effuses*	3′ grass
	Switch Grass	*Panicum virgatum*	3-6′ clumping grass
SEMI-SHADE 2	Oak Leaf Hydrangea	*Hydrangea quercifolia*	6-9′ with white cone-shaped flowers in spring
	Silky Dogwood	*Cornus amomum*	6-12′ with white flowers in spring; orange/scarlet fall foliage

Total cost $2750, cost to resident $688 **Shape subject to site specific modifications**

*first choice



Carex stricta



Juncus effuses



Panicum virgatum



Osmunda regalis



Chelone glabraea



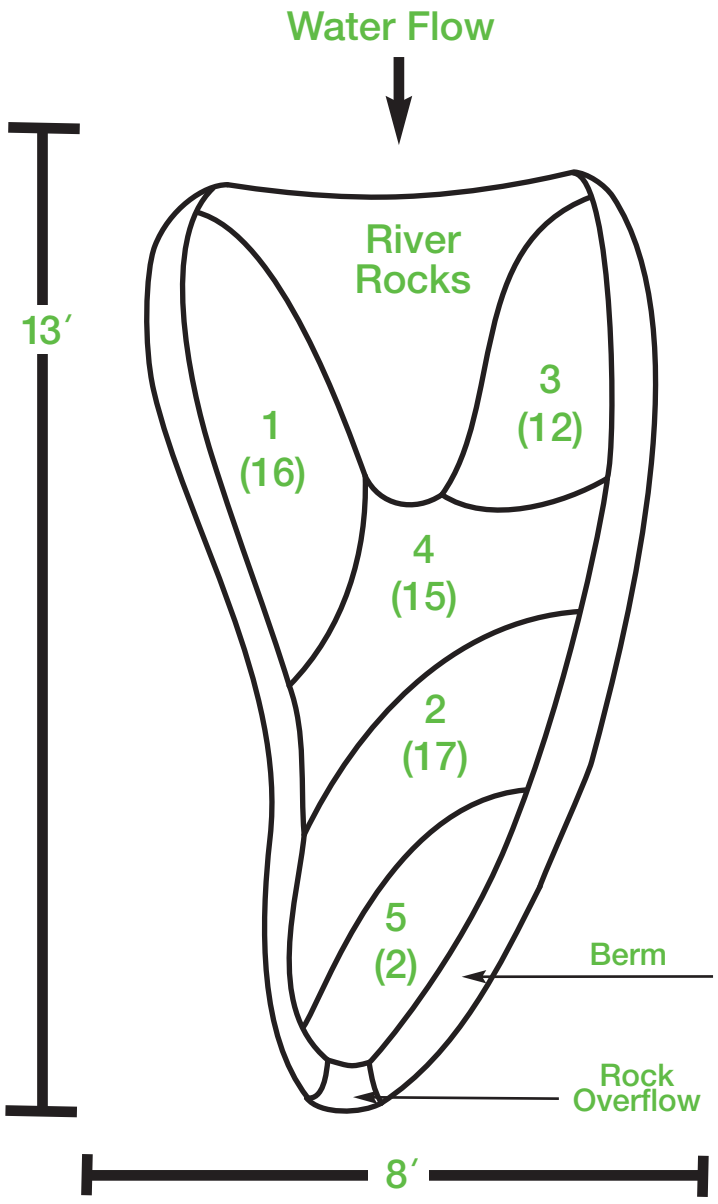
Osmunda cinnamomea



Liatris spicata



Rhododendron periclymenoides



RAIN GARDEN #5 300 SQ FT

Rain Garden Template for Columbia Association by Howard County MD Master Gardeners *July 2011*

	COMMON NAME	LATIN NAME	COMMENTS
SUN			
1	*Tussock Sedge	*Carex stricta*	1-3.5′ clumping grass
	Switch Grass	*Panicum virgatum*	3-6′ clumping grass
2	*Gayfeather	*Liatris spicata*	1-6′ with lavender spikes Jul-Aug
	Purple Coneflower	*Echinacea purpurea*	2-3′ with lavender flowers Jul-Sep
3	*White Turtlehead	*Chelone glabra*	1.5-6′ with white blooms Jul-Oct
	Common Boneset	*Eupatorium perfoliatum*	1-5′ with white blooms Jul-Sep
4	*Coreopsis	*Coreopsis verticillata*	0.5-3.5′ with yellow blooms Jun-Oct
	Orange Coneflower	*Rudbeckia fulgida ‘Goldstrum’*	1.5-3.5′ with yellow blooms Jun-Oct
5	*American Beautyberry	*Callicarpa americana*	6′ with lavender flowers Jun-Aug, lavender berries Sep-Mar
	Sweet Pepper Bush	*Clethra alnifolia*	6-12′ with white/pine flowers Jul-Aug
SEMI-SHADE			
1	* Soft Rush	*Juncus effuses*	3′ grass
	Switch Grass	*Panicum virgatum*	3-6′ clumping grass
2	* Cinnamon Fern	*Osmunda cinnamomea*	2-5′ fronds, brown spike seed heads in fall
	Royal Fern	*Osmunda regalis*	1.5-6′ fronds
3	* Coral Bells	*Heuchera cmericana*	1-2.5′ nice foliage, with tiny flowers Apr-Jun
	False Spirea	*Astilbe*	1-2.5′ with plume-like flowers Jun-Jul
4	*Lyre-Leaf Sage	*Salvia lyrata*	1-2′ with violet flowers Apr-Jun
	Mist Flower	*Eupatorium coelestinum*	1-3.5′ with purple flowers Jul-Aug
5	*Oak-Leaf Hydrangea	*Hydrangea quercifolia*	6-8′ with white cone-shaped flower clusters in spring
	Pink Azalea	*Rhododendron periclymenoides*	3-10′ with white/pink blooms Apr-May, orange/scarlet fall foliage.

Total cost $1800, cost to resident $450 **Shape subject to site specific modifications**

*first choice



Residents will need to apply to the Village Resident Architectural Committee. Once the application is approved, the 25% resident share paid to CA, and a maintenance agreement signed, the installation will be scheduled.

Contact John McCoy CA Watershed Manager at John.McCoy@ColumbiaAssociation.org.



Compost bins



A rain garden with no berm



Demonstration rain garden at Alpha Ridge landfill

MAINTAINING YOUR RAIN GARDEN

Your rain garden will need a little maintenance for it to be beautiful and successful. If you are not familiar with your plants, take a photograph of the leaves. You can then differentiate your plants from weeds.

SPRING

Weed your garden regularly to prevent extensive weeding work in the future.

Be alert and pull out tree saplings before they take root.

Cut perennials and grasses to the ground or a basal rosette (see below).

Replace mulch when bare spots start to appear or when the mulch becomes caked and will not allow water to filter through. Do not allow mulch to touch the base of a plant. Never mulch cardinal flower.

Place weeds that have not formed seed and plant material that is not diseased into compost bins.

Prune blooming shrubs after the blooms fade.

No fertilizer or pest control should be needed.

Once established, adding drip hoses defeats the principle of a rain garden.

SUMMER

Continue to weed as needed.

Water your whole garden only when you have not received 1 inch of rain that week. Water from a rain barrel or garden hose until you reach 1 inch.

Some perennials may need trimming to keep them tidy later in the summer.





A weeded rain garden



A rain garden with a path



Grasses can be left untrimmed until spring

FALL

Water all shrubs and trees well if we have a dry season.

Continue to weed as needed.

Use shredded leaves as mulch (up to 2 inches).

Leave interesting perennials to enjoy through the winter. Trim any messy looking plants.

WINTER

Trim any plants damaged by snow/ice after the snow subsides.

Rain gardens with rock can be sprayed with glyphosate (i.e. Roundup) to kill weeds at any time of the year.

Columbia Association