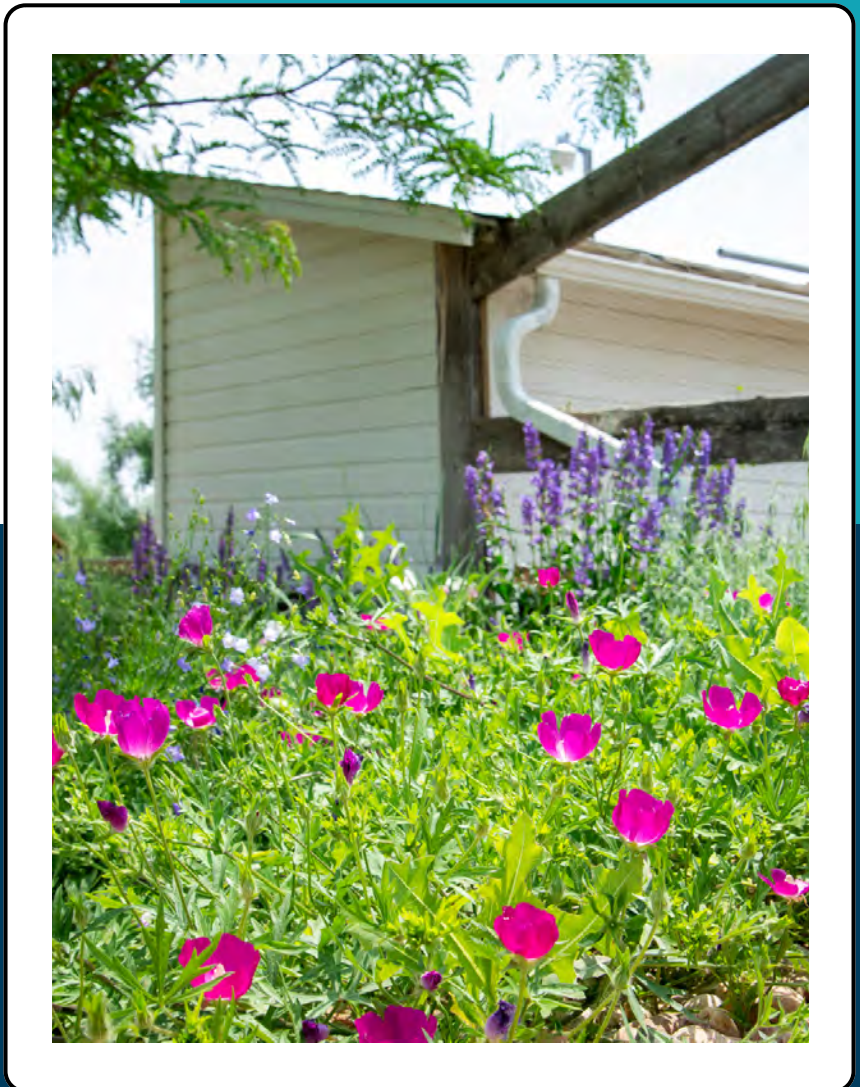


OCTOBER 2022

# RESIDENTIAL RAINGARDEN PILOT PROJECT

PART SHADE PLANTING LAYOUT: 1B



PRODUCED BY



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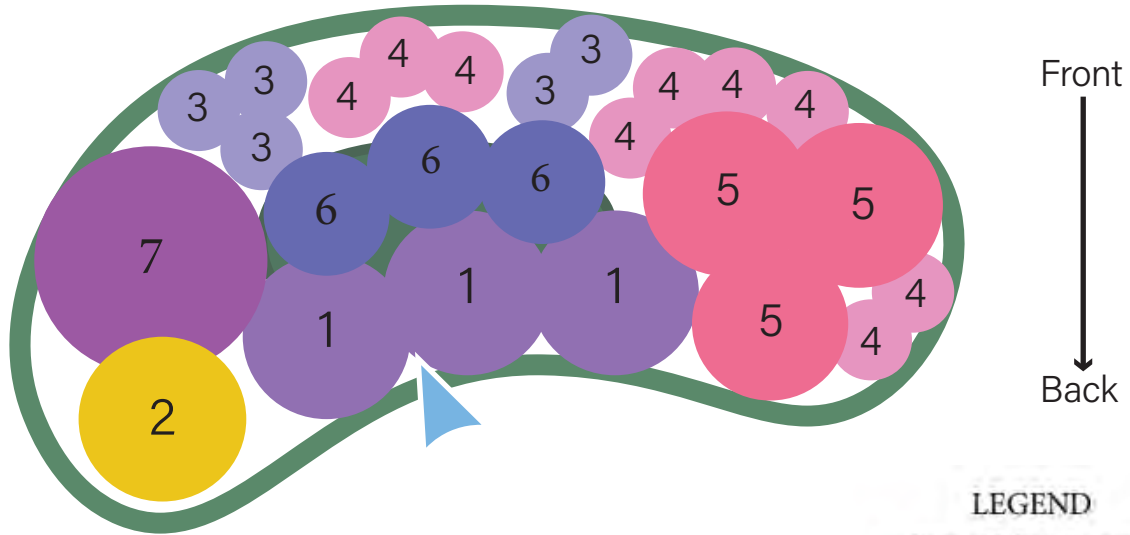
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**HORTICULTURE AND  
LANDSCAPE ARCHITECTURE**  
COLORADO STATE UNIVERSITY




# Rain Garden - Partial Shade

## Layout 1B - 50ft<sup>2</sup>



- 1 Beebalm - *Monarda fistulosa*
- 2 Goldenrod - *Solidago sp.*
- 3 Harebells - *Campanula rotundifolia*
- 4 Prairie Smoke - *Geum triflorum*
- 5 Purple Coneflower - *Echinacea purpurea*
- 6 Spiderwort - *Tradescantia occidentalis*
- 7 Winecups/Poppy Mallow - *Oenothera caespitosa*

### LEGEND

-  Point of Water Entrance
-  Low Point of Garden
-  Rain Garden

**PARTIAL SHADE 1B SUBSTITUTION LIST**

All Plants on list are Native to the Rocky Mountain/Front Range Region

Layout Number	Original Plant	Subsitution	Tier	Dimensions	Color
1	Beebalm	Rose Vervain ( <i>Glandularia canadensis</i> )	top/mid	1ft tall, 1.5ft spread	blue/purple fragrant flowers, can become a groundcover
		Rocky Mountain Columbine ( <i>Aquilegia caerulea</i> )	mid	1.5ft tall, 1ft spread	Light blue and white flowers
2	Goldenrod	Cutleaf Coneflower ( <i>Rudbeckia laciniata</i> )	mid	3ft tall, 2ft spread	large yellow coneflowers
		Switchgrass ( <i>Panicum virgatum</i> )	top	2-5ft tall, 2-3ft spread	ornamental grass with red flower panicles
3	Harebells	Showy Fleabane ( <i>Erigeron speciosus</i> )	mid	1.5ft tall, 1.5ft spread	lavendar, aster-like flowers with yellow center
		White Yarrow ( <i>Achillea millefolium</i> )	top	1-2ft tall, 1.5ft spread	white flowers, finely textured foliage
4	Prairie Smoke	Rose Vervain ( <i>Glandularia canadensis</i> )	top/mid	1ft tall, 1.5ft spread	blue/purple fragrant flowers, can become a groundcover
		Rocky Mountain Columbine ( <i>Aquilegia caerulea</i> )	mid	1.5ft tall, 1ft spread	Light blue and white flowers
5	Purple Coneflower	Great Blue Lobelia ( <i>Lobelia siphilitica</i> )	top	2ft tall, 2ft spread	small, blue/purple flowers in a tall panicle
		Rocky Mountain Penstemon ( <i>Penstemon strictus</i> )	top	2ft tall, 2ft spread	purple/blue flowers
6	Spiderwort	Harebells ( <i>Campanula rotundifolia</i> )	mid/low	1.5ft tall, 10" spread	light blue, ballon-like flower with delicate foliage
		Rocky Mountain Iris ( <i>Iris missouriensis</i> )	low	1.5ft tall, 10" spread	Blue flowers, bulbs resprout
7	Winecups	Western Columbine ( <i>Aquilegia formosa</i> )	mid	1.5ft tall, 2ft spread	red and yellow penduous flowers
		Switchgrass ( <i>Panicum virgatum</i> )	top	2-5ft tall, 2-3ft spread	ornamental grass with red flower panicles

**Tiers:**

**Top:** lowest water requirements, planted along the garden berm

**Mid:** average water requirement, planted on the sloping sides of the garden

**Low:** higher water requirements, planted in the basin, roots must withstand wet conditions up to 12 hours

## Part Shade Plant Guide Layout 1B



### 1. Beebalm (*Monarda fistulosa*)

Mature Height	2-4ft tall and 2-3ft spread
Care & Water	Once established, water once per week. Deadhead to promote blooming.
Flowering Time	May-September
Hardiness	Zones 3-9, plant 20" apart
Special Features and Notes	Attracts bees, butterflies, hummingbirds, and other pollinators. Deer and rabbit resistant. Prone to powdery mildew when overwatered.



### 2. Goldenrod (*Solidago spp*)

Mature Height	3-5ft tall and 3-4ft spread
Care & Water	Once established, water once per week. Deadhead to promote more blooms.
Flowering Time	August-September
Hardiness	Zones 3-8, plant 28" apart
Special Features and Notes	Attracts bees, butterflies, beetles, and birds. Deer resistant. Spreads through rhizomes and can be divided to propagate.



### 3. Harebells/Bluebells (*Campanula rotundifolia*)

Mature Height	1ft tall and 1ft spread, stems are weak and the plant often bends over.
Care & Water	Once established, water once per week.
Flowering Time	June-September, periwinkle color flowers.
Hardiness	Zones 2-7, plant 6" apart

## Part Shade Plant Guide Layout 1B



Special Features and Notes	Attracts hummingbirds. When grown from seed, the plants start blooming the second year.
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### 4. Prairie Smoke (*Geum triflorum*)

Mature Height	1ft tall and 1ft spread
Care & Water	Once established, water once per week.
Flowering Time	May-July
Hardiness	Zones 3-8, plant 6" apart
Special Features and Notes	Looks like mini truffle trees! Attracts butterflies and is deer resistant. Rabbits like to eat the blooms.



### 5. Purple Coneflower (*Echinacea purpurea*)

Mature Height	2-4ft tall and 2ft wide, upright growth habit.
Care & Water	Once established, water once per week.
Flowering Time	July-September
Hardiness	Zones 3-9, plant 18" apart
Special Features and Notes	Attracts pollinators while blooming, after flowers are finished the seed heads then attract songbirds. Deer resistant.



### 6. Spiderwort (*Tradescantia occidentalis*)

Mature Height	1-2ft tall with 1ft spread
Care & Water	Once established, water once per week.
Flowering Time	April-September

### Part Shade Plant Guide Layout 1B

Hardiness	Zones 4-9, plant 10" apart
Special Features and Notes	Each flower only lasts one day, the plant blooms in succession. Attracts native bees. Deer resistant.



#### 7. Winecups/Poppy Mallow (*Callirhoe involucrata*)

Mature Height	6in-1ft tall with 3ft spread
Care & Water	Once established, water once per week.
Flowering Time	March-June
Hardiness	Zones 4-8, plant 3ft apart
Special Features and Notes	Ornate foliage that is attractive when not in bloom. Attracts butterflies and hummingbirds.