

Habitat Rain Garden Template & Planting Guide

Ensure you include the following information on page 2 before submitting the template with the aerial image generated at the pre-application stage.

- Contact information and address
- The results of your drainage test and the soil type
- Roof catchment area in square metres
- Garden depth in metres (see Depth to Slope table)
- Proposed slope of garden sides (see Depth to Slope table)
- Distance between garden and house foundation in metres
- An arrow showing the general direction of slope on your property, and the slope percentage
- Any other adjustments necessary to adapt design to your property

Materials

Item	Unit	Quantity	Notes
Plants	Count	41	See plant key on page 3 for further details.
Mulch	Cubic Yards	2.6	Undyed, shredded hardwood blend preferred. 1.25 cubic yards is equivalent to thirty-five 2 cubic foot bags, or twenty-four 3 cubic foot bags.
River Rock	Tonnes	0.25	For use at inlet. Additional quantities may be required for the outlet.
Edging	Meters	17	Use recycled and/or salvaged materials when possible. A clean edge can be maintained using a flat spade or string trimmer. Quantity includes small overage.
Topsoil	Cubic Yard	Variable	Reuse excavated sod and existing topsoil. Additional topsoil may be necessary. Compost is not recommended unless your existing soil is very slow or fast draining.
Downspouts, etc.	Variable	Variable	For directing runoff to garden. Exact products and quantities will vary by site.

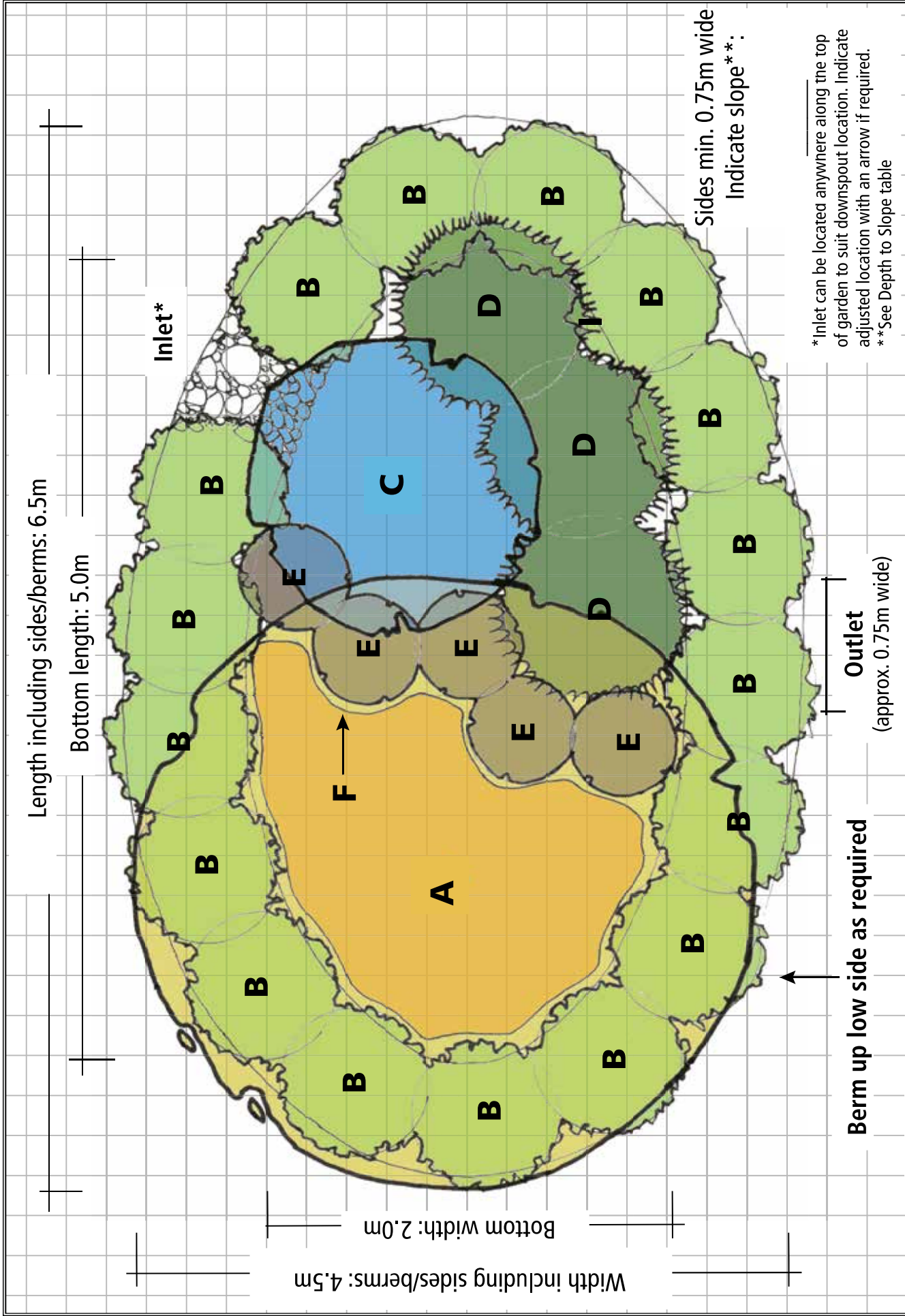
Note: we do not recommend lining your garden with landscape fabric. If desired, a small amount of weed barrier may be used beneath river rock to prevent it from sinking into the soil over time.

In addition to improving watershed health, this template is designed for flood reduction, biodiversity and carbon capture!



Contact GreenUP staff for assistance
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SCALE: 1 SQUARE = 0.25 m² (must be metric)

APPLICANT NAME:	SOIL TYPE:	GARDEN BOTTOM m ² :	SOIL DRAINAGE TEST:
ADDRESS:	ROOF CAPTURE AREA:	10m ²	INITIAL DEPTH OF WATER/HOLE DEPTH: _____ mm
			DEPTH OF WATER 2ND FILL (AFTER 2 HOURS): _____ mm
			DEPTH DIFFERENCE: _____ mm
			(INITIAL DEPTH) (DEPTH AFTER 2 HRS) _____ mm
			TIME BETWEEN MEASUREMENTS: _____ 2 hours
			INFILTRATION RATE/HOUR (DEPTH DIFF/2 HRS): _____ mm/hr



Habitat Garden Plant Key

This plant key corresponds with the codes displayed on the design template. For each letter code, choose the plants that best suit your style and site conditions.

Code	Full Sun Options - Common Name (Botanical Name)	Part-Shade Options - Common Name (Botanical Name)	Qty.	Purchase size (in gallons)	Notes
A	Nannyberry (<i>Viburnum lentago</i> / Downy Serviceberry (<i>Amelanchier arborea</i>) / (River Birch (<i>Betula nigra</i>))*	Witch Hazel (<i>Hamamelis virginiana</i>) OR Alternate Leaf Dogwood (<i>Cornus alternifolia</i>)**	1	2 or 3	*River Birch will grow wider than shown. **Alternate Leaf Dogwood may not thrive in very fast draining soils.
B	Gro-Low Fragrant Sumac (<i>Rhus aromatica</i> 'Gro-Low') / Low Bush Honeysuckle (<i>Diervilla lonicera</i>)	Low Bush Honeysuckle (<i>Diervilla lonicera</i>)	15	1 or 2	
C	Black Chokeberry (<i>Aronia melanocarpa</i>) / Snowberry (<i>Symphoricarpos alba</i>) / Red Osier Dogwood (<i>Cornus sericea</i>)*	Black Chokeberry (<i>Aronia melanocarpa</i>) OR Snowberry (<i>Symphoricarpos alba</i>)	1	2 or 3	*Dogwood is larger. Remove a few of the tallest stems annually to keep its size in check and for new growth
D	Globe Arborvitae cultivar such as 'Golden Globe' or 'Danica' (<i>Thuja occidentalis</i> 'Golden Globe' OR 'Danica')	Globe Arborvitae cultivar such as 'Golden Globe' or 'Danica' (<i>Thuja occidentalis</i> 'Golden Globe' OR 'Danica')*	3	2 or 3	*Not suitable for dense shade (less than 2-3 hours of direct sun per day).
E	Karl Foerester Feather Reed Grass (<i>Calamagrostis</i> x 'Karl Foerester') / Canada Bluejoint Grass (<i>Calamagrostis canadensis</i>)*	Bottlebrush Grass (<i>Elymus hystrix</i>)** OR Cinnamon Fern (<i>Osmundastrum cinnamomeum</i>)	3	1 or 2	*This is a sterile, non-native hybrid of Canada Bluejoint that is easy to manage. **Elymus can harm dogs.
F	Canada Anemone (<i>Anemone canadensis</i>) +/- Bluestemmed/Zigzag Goldenrod (<i>Solidago caesia/flexicaulis</i>)*	Canada Anemone (<i>Anemone canadensis</i>) +/- Bluestemmed/Zigzag Goldenrod (<i>Solidago caesia/flexicaulis</i>)	18	10cm or 1 gallon	*Plant 1:2 (6 Anemone to 12 Solidago). In soil that is <0.15m deep, Canada Anemone can be switched with Wild Geranium.

For more details about recommended plants, visit greenup.on.ca/plant-category/plant-catalogue

Slope to Depth Table

Roof area (m ²)	Depth of Garden (m)	Slope of Sides (%)
40-65	0.15	18
66-90	0.20	25
91-110	0.25	31
111-130	0.30	38

Note: We recommend widening the sides/berms to at least 0.6m if your garden is 0.3m deep, to reduce the risk of soil erosion.



Nannyberry
(*Viburnum lentago*)



Red-osier Dogwood
(*Cornus sericea*)



Bluestemmed Goldenrod
(*Solidago caesia*)