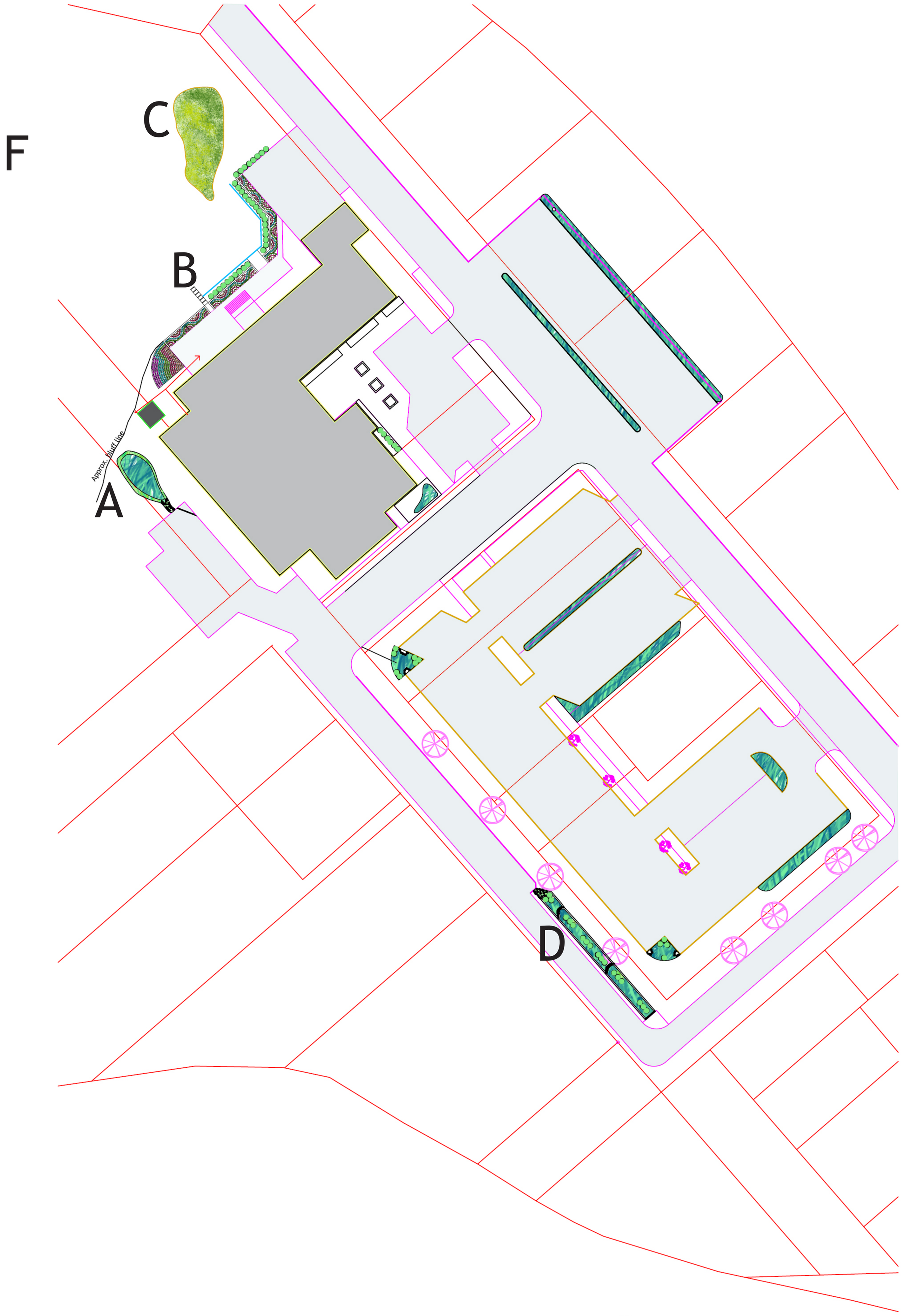
BMP Design

CHISAGO COUNTY WATER QUALITY MANAGEMENT



Great River Greening
Chisago Government Center
Raingardens
Concept for:
Chisago County Government
Center City, Minnesota

This plan is preliminary and is intended for preliminary concept review purposes only.

Plan created: 5/7/2007

0 40 80 120

35 W. Water St. #201
Saint Paul MN 55107
www.greatrivergreening.org
Tel: 651 665.9500

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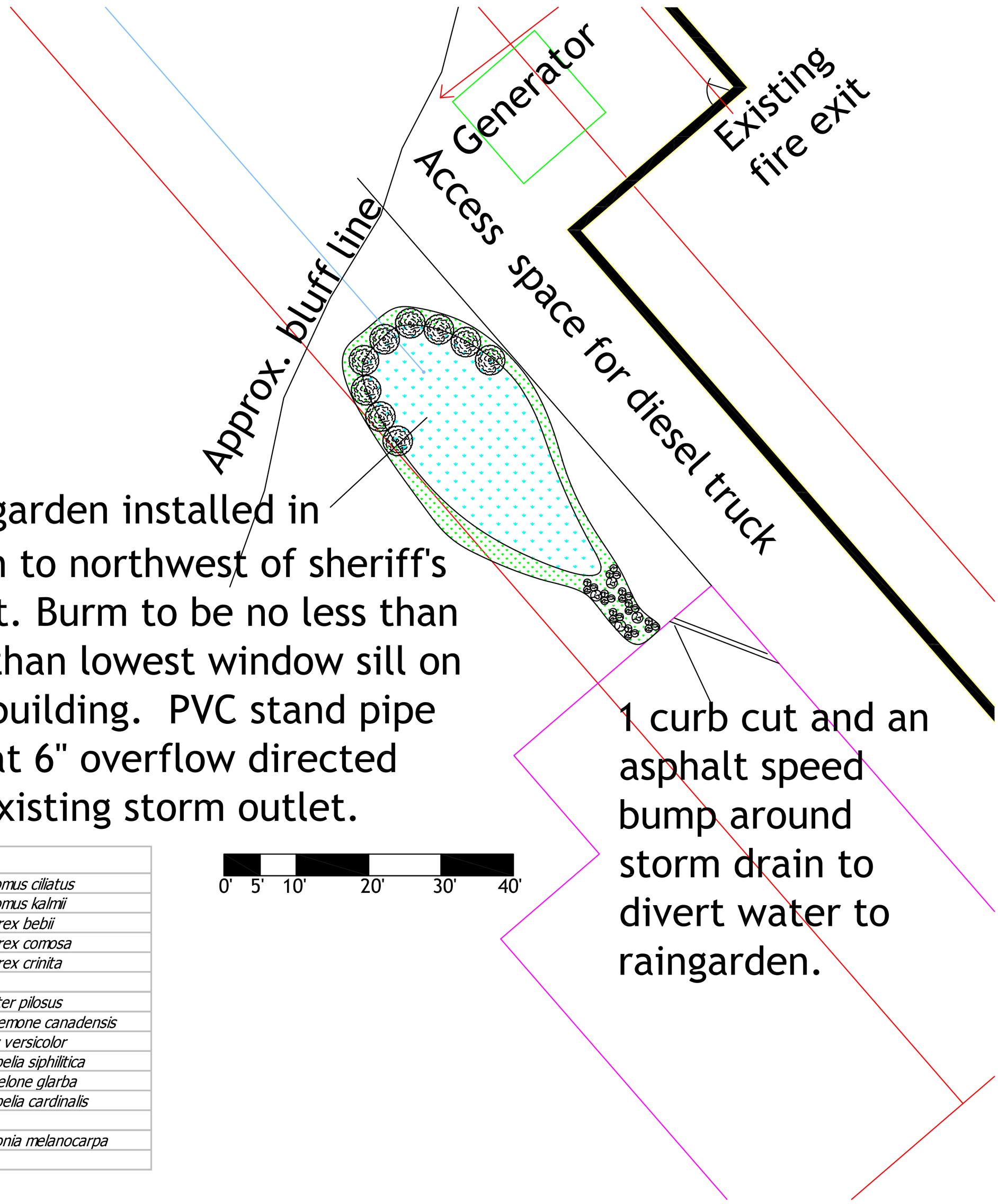
Chisago County Goverment Center
Center City, MN

CHISAGO COUNTY WATER QUALITY MANAGEMENT

A: Sheriff's Lot



Raingarden installed in depression to northwest of sheriff's parking lot. Burm to be no less than 6" lower than lowest window sill on adjacent building. PVC stand pipe overflow at 6" overflow directed down to existing storm outlet.

1 curb cut and an asphalt speed bump around storm drain to divert water to raingarden.

Species List	
Fringed Brome	*Bromus ciliatus*
Kalm's Brome	*Bromus kalmii*
Bebb's Sedge	*Carex bebii*
Bottlebrush Sedge	*Carex comosa*
Fringed Sedge	*Carex crinita*
Frost Aster	*Aster pilosus*
Canada Anemone	*Anemone canadensis*
Blue Flag Iris	*Iris versicolor*
Great Blue Lobelia	*Lobelia siphilitica*
Turtlehead	*Chelone glarba*
Cardinal Flower	*Lobelia cardinalis*
Black Chokeberry	*Aronia melanocarpa*

CHISAGO COUNTY WATER QUALITY MANAGEMENT

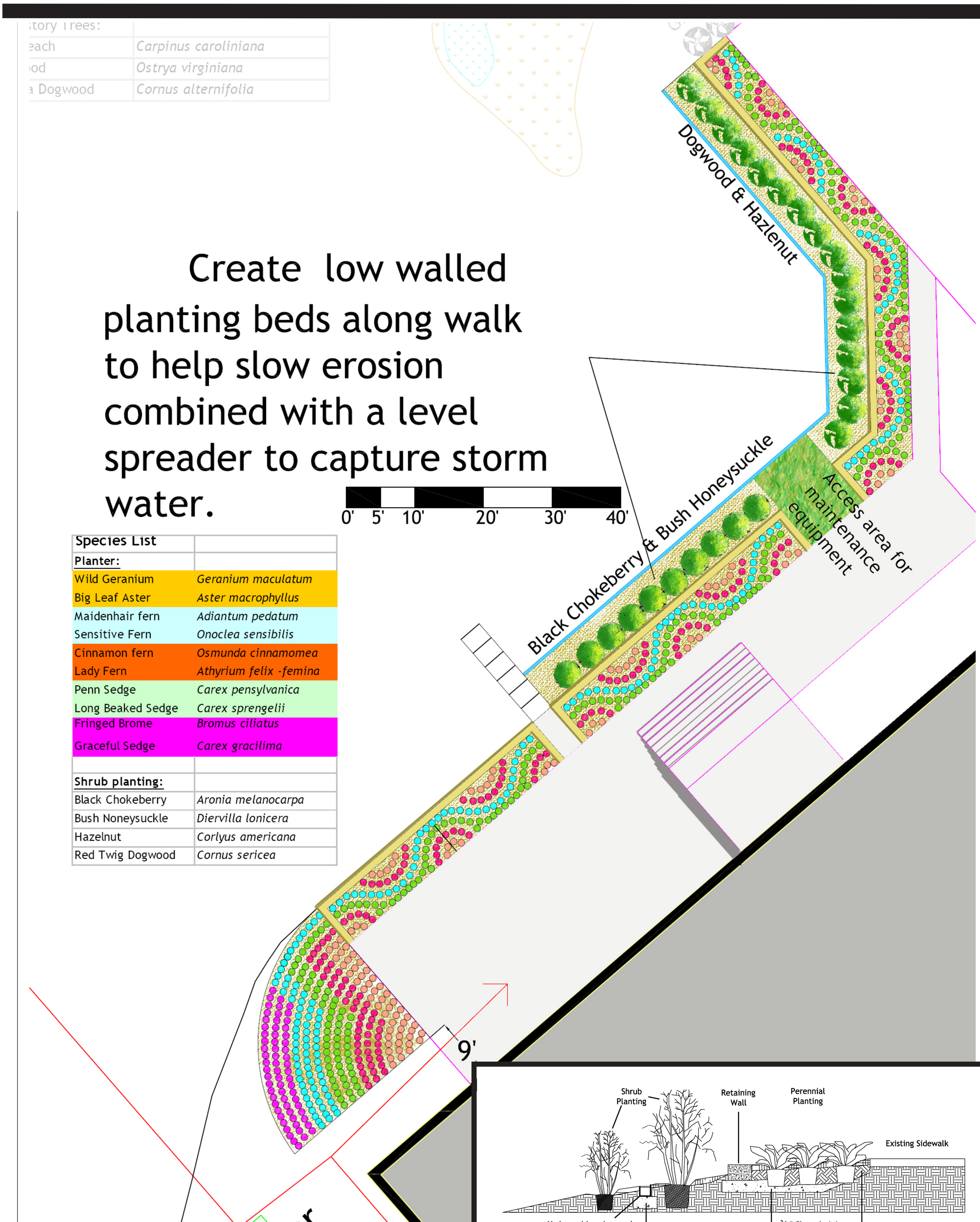
B: Level spreader & Erosion control wall

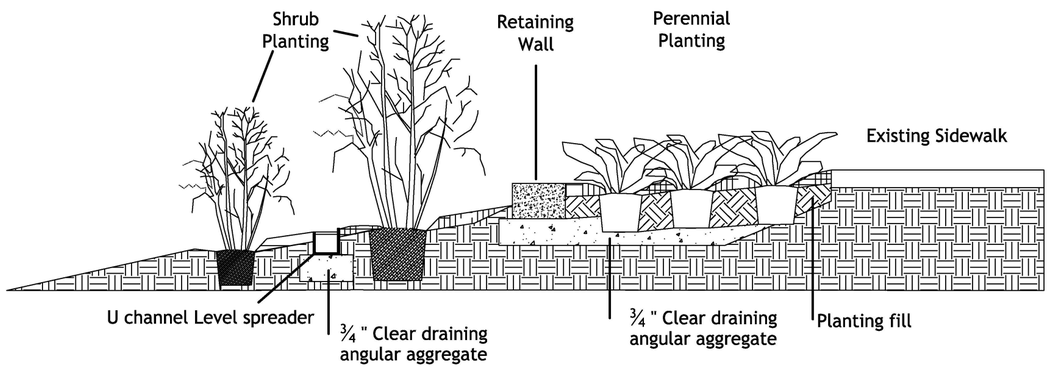
story Trees:	
each	*Carpinus caroliniana*
od	*Ostrya virginiana*
a Dogwood	*Cornus alternifolia*

Create low walled planting beds along walk to help slow erosion combined with a level spreader to capture storm water.

0' 5' 10' 20' 30' 40'

Species List	
Planter:	
Wild Geranium	*Geranium maculatum*
Big Leaf Aster	*Aster macrophyllus*
Maidenhair fern	*Adiantum pedatum*
Sensitive Fern	*Onoclea sensibilis*
Cinnamon fern	*Osmunda cinnamomea*
Lady Fern	*Athyrium felix -femina*
Penn Sedge	*Carex pensylvanica*
Long Beaked Sedge	*Carex sprengelii*
Fringed Brome	*Bromus ciliatus*
Graceful Sedge	*Carex gracilima*
Shrub planting:	
Black Chokeberry	*Aronia melanocarpa*
Bush Noneysuckle	*Diervilla lonicera*
Hazelnut	*Corlyus americana*
Red Twig Dogwood	*Cornus sericea*





Great River Greening
Stormwater Treatment Concept for:
Chisago County Government Center
Center City, Minnesota

This plan is preliminary and is intended for preliminary concept review purposes only.

Plan created: 3/29/2007

Great River Greening
35 W. Water St. #201
Saint Paul MN 55107
www.greatrivergreening.org
Tel: 651 665.9500
Fax: 651 665.9409

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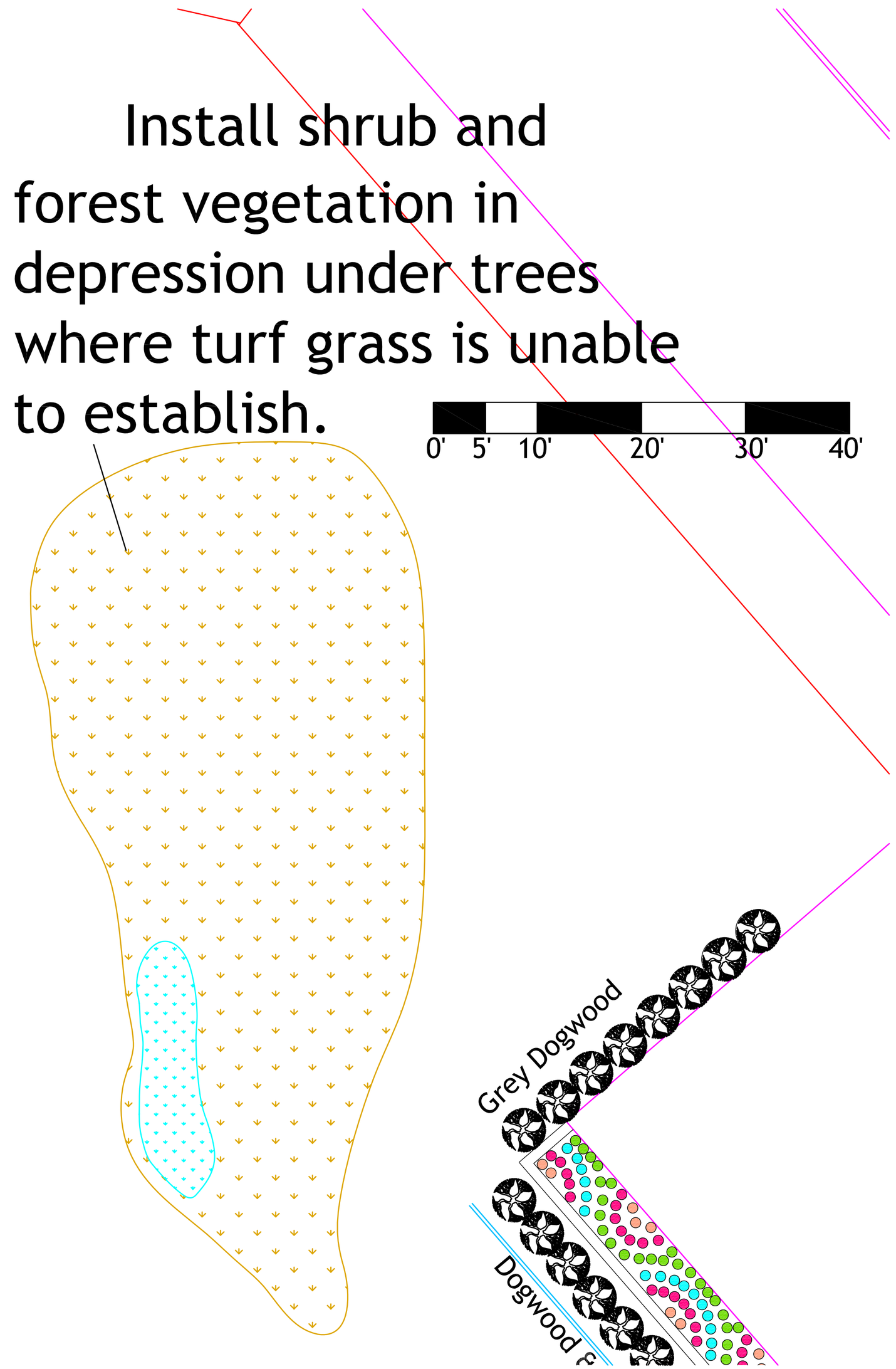
Center City, MN

C: Shade Planting

Species List	
Herbaceous:	
Wild Geranium	*Geranium maculatum*
Woodland Phlox	*Phlox divaricata*
Wild Strawberry	*Fragaria virginiana*
Wild Columbine	*Aquilegia canadensis*
Wild Ginger	*Asarum canadense*
Calico Aster	*Aster lateriflorus*
Big Leaf Aster	*Aster macrophlus*
Arrow Leaved Aster	*Aster urophyllus*
Trout Lily	*Erythronium americanum*
Zig-zag Goldenrod	*Solidago flexicaulis*
Ferns:	
Ostrich Fern	*Matteuccia struthiopteris*
Cinnamon Fern	*Osmunda cinnamomea*
Lady Fern	*Athyrium filix-femina*
Grass/sedge:	
Pennsylvania sedge	*Carex pensylvanica*
Fowl Mana Grass	*Glyceria striata*
Fringed Brome	*Bromus ciliatus*
Fox Sedge	*Carex vulpinoidea*
Shrubs:	
American Cranberry	*Viburnum trilobum*
Grey Dogwood	*Cornus racemosa*
Serviceberry	*Amelanchier sp.*
Bush Honeysuckle	*Diervilla lonicera*
Understory Trees:	
Blue Beach	*Carpinus caroliniana*
Ironwood	*Ostrya virginiana*
Pagoda Dogwood	*Cornus alternifolia*

Install shrub and forest vegetation in depression under trees where turf grass is unable to establish.



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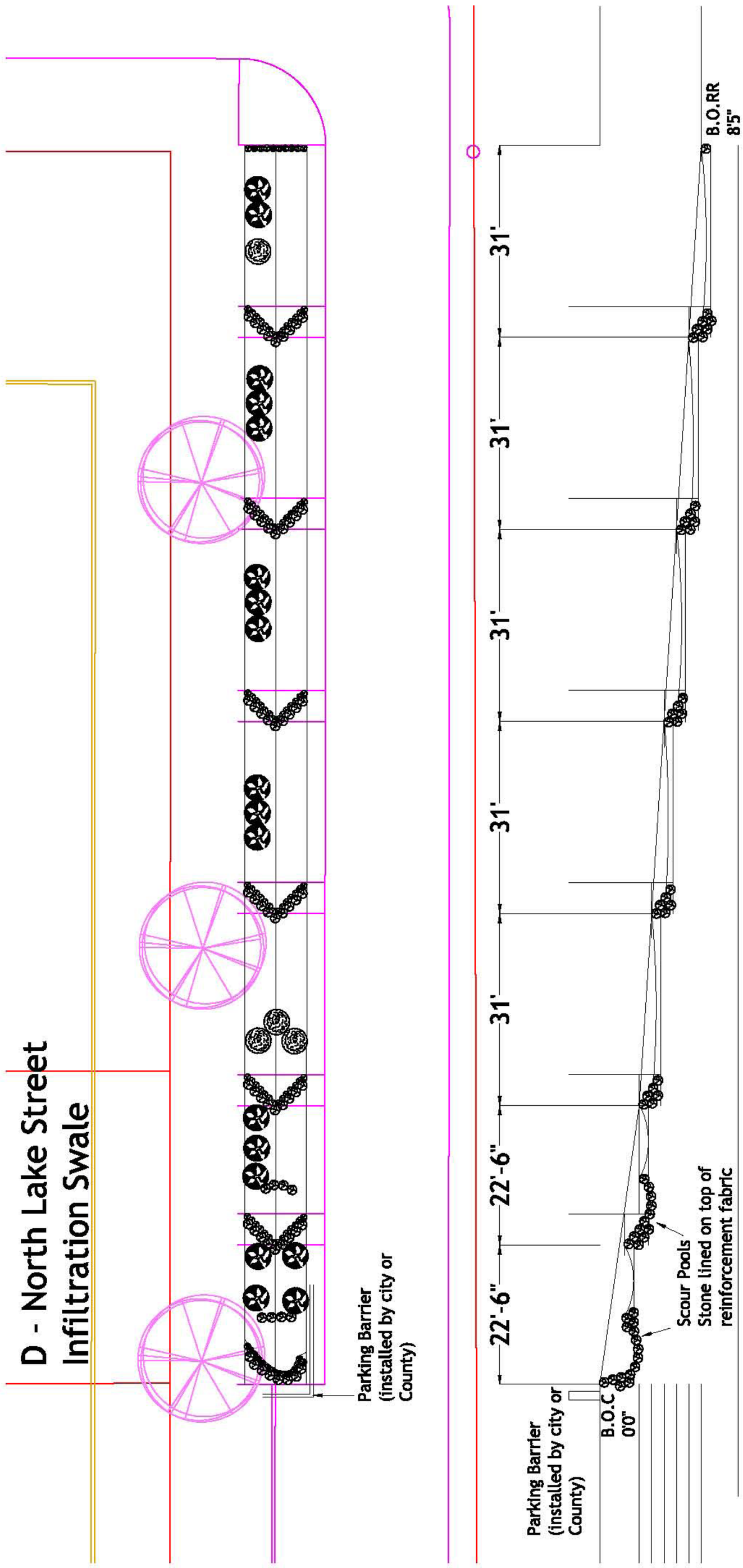
CHISAGO COUNTY WATER QUALITY MANAGEMENT

D: Infiltration Swale



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