Native planting within ravine buffer area

Minimized paving and lawn within rear yard

Mature native trees on ravine slopes

Stable slopes with dense ground cover
UNHEALTHY CONDITIONS

No native planting buffer

Excessive paving within rear yard

Dense, immature weed trees and shrubs on ravine slope

Eroding slopes with minimal ground cover

Ravine floor
**YES**

- Minimum 10’ width from top of ravine slope
- Along entire length of property adjacent to ravine
- Native savanna and prairie plants with a diverse selection of species
- Minimal irrigation, drip if necessary

**NO**

- Encroach within 10’ of top of ravine slope with the following:
  - lawn
  - paving
  - pool
  - outdoor furniture or play equipment
- Non-native plants
- Allow children to play on ravine slopes
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**2. DRAINAGE**

### YES

- Direct storm drain pipes to bottom of ravine
- Native plant gardens within side yard swale areas
- Direct a portion of roof gutters to rain barrels or cistern

### NO

- Direct storm drain pipes to top or mid slope of ravine
- Allow excessive sheet runoff into ravine
- Place sprinklers within 20 ft of top of ravine
3 SURFACES

YES

• Use porous paving for outdoor hard surface areas

• Small patio areas in back yard

NO

• Overbuild site with excessive roofs, paving and lawn

• Large contiguous areas of impervious surface with no areas for stormwater infiltration
YARD WASTE

**YES**

- Dispose of yard waste in trash or local landfill
- Compost

**NO**

- Dump yard waste onto ravine slopes
5.

**LAWN CARE**

**YES**

- Let height reach 4 inches before mowing
- Hand pick weeds
- Use organic fertilizers and pesticides only as necessary
- Aerate

**NO**

- Chemical fertilizers and pesticides
- Excessive mowing and watering

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EXAMPLE GARDEN
SWALE ONLY

House

Swale Garden

Lawn

Ravine
EXAMPLE GARDEN
NATURAL

Lawn

Native Prairie/Savanna

Native Woodland

Ravine

House
Sample Native Plants

Trees and Shrubs

Blue Beach
*Carpinus caroliniana*
- Understory tree
- 30-50 ft tall
- Partial shade
- Yellow-orange-red fall color
- Found in wet and mesic woods

Pagoda Dogwood
*Cornus alternifolia*
- Ornamental tree
- 15-30 ft tall
- Partial sun to full shade
- White blooms in late spring
- Dark blue berries
- Red fall color
- Found in mesic woods and woodland borders

Ninebark
*Physocarpus opulifolius*
- Shrub
- 3-9 ft tall
- Full to partial sun
- White bloom in spring
- Dull yellow fall color
- Found in mesic woods

Shagbark Hickory
*Carya ovata*
- Canopy tree
- 75-100 ft tall
- Full to partial sun
- Blooms in fall
- Found in dry and mesic woods

American Hazelnut
*Corylus americana*
- Shrub
- 4-15 ft tall
- Full sun to partial shade
- Yellow blooms in spring
- Edible fall fruit
- Yellow fall color
- Found in dry to mesic woods, savannas, and prairies

Wild Black Currant
*Ribes americanum*
- Shrub
- 3-5 ft tall
- Partial shade
- Cream blooms in spring
- Red-orange fall color
- Found in wet to mesic woods

Allegheny Serviceberry
*Amelanchier laevis*
- Ornamental tree
- 15-30 ft tall
- Full sun to partial shade
- White flowers in spring
- Yellow-orange fall color
- Blooms in fall
- Black fruit
- Found in mesic woods

Witch Hazel
*Hamamelis virginiana*
- Ornamental tree
- 15-30 ft tall
- Partial to full shade
- Yellow blooms in late fall
- Found in mesic woods and savannas

Black Haw
*Viburnum prunifolium*
- Ornamental tree
- 15-30 ft tall
- Full sun to partial shade
- White bloom in spring
- Purple berries
- Red fall color
- Found in dry woods and woodland borders

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Wild Garlic
*Allium canadense*
- wildflower
- 12-18 in tall
- full to partial shade
- blooms in early summer
- found in mesic woods and prairies

Smooth Blue Aster
*Aster laevis*
- wildflower
- 2-4 ft tall
- full to partial sun
- blooms in late summer
- found in mesic to dry prairies and savannas

Prairie Coreopsis
*Coreopsis palmata*
- wildflower
- 1-3 ft tall
- full sun
- blooms in early summer
- found in mesic to dry prairies and savannas

Wild Columbine
*Aquilegia canadensis*
- wildflower
- 1-3 ft tall
- light to partial shade
- blooms in late spring/early summer
- found in mesic woods and prairies

Big Leaved Aster
*Eurybia macrophylla*
- wildflower
- 2-4 ft tall
- partial to full shade
- blooms in fall
- found in mesic woods

Purple Joe-Pye Weed
*Eupatorium purpureum*
- wildflower
- 4-7 ft tall
- partial shade
- blooms in summer
- found in moist to mesic woods

Swamp Milkweed
*Asclepias incarnata*
- wildflower
- 2-6 ft tall
- full to partial sun
- blooms in late summer
- found in wet prairies and marshes

Cream Wild Indigo
*Baptisia leucophaea*
- wildflower
- 1-2 ft tall
- full sun
- blooms in spring
- found in dry prairies and savannas

Blazing Star
*Liatris pycnostachya*
- wildflower
- 3-5 ft tall
- full sun
- blooms in late summer
- found in moist to mesic prairies
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Great Blue Lobelia
Lobelia siphilitica
- wildflower
- 2-3 ft tall
- full sun to partial shade
- blooms in summer
- found in wet to mesic prairies and woods

Feathery False Solomon’s Seal
Maianthemum racemosum
- wildflower
- 2-3 ft tall
- partial shade
- blooms in late spring
- found in mesic to dry woods

Woodland Phlox
Phlox divaricata
- wildflower
- 1-2 ft tall
- partial shade
- blooms in late spring
- found in dry to mesic woods

Jacob’s Ladder
Polemonium reptans
- wildflower
- 1-2 ft tall
- full sun to partial shade
- blooms in fall
- found in moist to mesic prairies and woods

Spiderwort
Tradescantia ohiensis
- wildflower
- 2-4 ft tall
- partial to full shade
- blooms in late spring
- found in moist to mesic prairies and savannas

Ironweed
Vernonia fasciculata
- wildflower
- 3-5 ft tall
- full sun
- blooms in late summer
- wet prairies

Foxglove Penstemon
Penstemon digitalis
- wildflower
- 3 ft tall
- partial to full sun
- blooms in late spring to early summer
- found in mesic prairies and woodland borders

Sweet Black Eyed Susan
Rudbeckia subtomentosa
- wildflower
- 3-5 ft tall
- full to partial sun
- blooms in summer
- found in mesic prairies and savannas

Culver’s Root
Veronicastrum virginicum
- wildflower
- 3-4 ft tall
- full sun to full shade
- blooms in summer
- found in mesic woods and prairies
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**SAMPLE NATIVE PLANTS**

**GRASSES, SEDGES, FERNS**

- **Hairy Woodland Brome**
  *Bromus pubescens*
  - grass
  - 2-5 ft tall
  - partial sun to light shade
  - found in mesic woods

- **Pennsylvania Sedge**
  *Carex pensylvanica*
  - sedge
  - 6” - 1 ft tall
  - partial sun, full shade
  - found in dry to mesic woods

- **Lady Fern**
  *Athyrium filix-femina*
  - fern
  - 1-2 ft tall
  - partial shade
  - found in dry to mesic woods

- **Swamp Oval Sedge**
  *Carex muskingumensis*
  - sedge
  - 2-4 ft tall
  - partial shade
  - found in wet woods and sedge meadows

- **Brown Fox Sedge**
  *Carex vulpinoides*
  - sedge
  - 1-3 ft fall
  - full to partial sun
  - found in mesic and wet prairies and woods

- **Little Blue Stem**
  *Schizachyrium scoparium*
  - grass
  - 2-3 ft tall
  - full sun
  - found in dry to mesic prairies

- **Prairie Dropseed**
  *Sporobolus heterolepis*
  - grass
  - 2-4 ft tall
  - full sun
  - blooms in fall
  - found in dry to mesic prairies

- **Goldie’s Wood Fern**
  *Dryopteris goldiana*
  - fern
  - 3-4 ft tall
  - partial shade
  - found in mesic woods

- **Christmas Fern**
  *Polystichum acrostichoides*
  - fern
  - 1-3 ft tall
  - partial shade
  - found in dry woods

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Living Habitats

Landscape Architecture

Ecological Services

Environmental Planning

Custom Artworks

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## Wildflowers

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>BOTANICAL NAME</th>
<th>LOCATION</th>
<th>LIGHTING</th>
<th>MOISTURE</th>
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<tbody>
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<td>Wild Garlic</td>
<td>Allium canadense</td>
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## Trees & Shrubs

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## Grasses, Sedges, Ferns

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### Preferred Location

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