

ORDINANCE NUMBER 2008-039

**AN ORDINANCE AMENDING THE
CODE OF ORDINANCES OF THE
VILLAGE OF VERNON HILLS,
APPENDIX B – DEVELOPMENT
REGULATIONS, ARTICLE I-
DEVELOPMENT ORDINANCE,
APPENDIX II, ENGINEERING
SPECIFICATIONS, ARTICLE II, TREE
PRESERVATION AND LANDSCAPING**

WHEREAS, the President and the Board of Trustees of the Village of Vernon Hills is authorized to prescribe certain polices and regulations for the purpose of creating and retaining a safe, comfortable, and accessible environment and character in the community; and

WHEREAS, the President and Board of Trustees has determined that in prescribing said policies and regulations, specific development regulations are essential to insure buildings, structures, and infrastructure are well-constructed and will preserve, maintain, and enhance existing and future village amenities; and

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND THE BOARD OF TRUSTEES OF THE VILLAGE OF VERNON HILLS, ILLINOIS AS FOLLOWS:

SECTION I. That Appendix B, Article II – Tree Preservation and Landscaping is hereby amended to read as follows:

Section 2.05.2 - PRESERVATION AND PROTECTION OF EXISTING TREES:

2. Species of replacement trees. All replacement trees shall be limited to the following except by written approval of the village landscape architect or his/her authorized designee:

TABLE INSET

<i>Botanical Name</i>	<i>Common Name</i>
<i>Acer freemanii cultivars</i>	Freman Maple
<i>Acer miyabei</i>	Miyabe Maple
<i>Acer platanoides cultivars</i>	Norway Maple
<i>Acer saccharum cultivars</i>	Sugar Maple
<i>Aesculus glabra</i>	Ohio Buckeye
<i>Aesculus hippocastanum</i>	Common Horsechestnut
<i>Celtis occidentalis</i>	Common Hackberry
<i>Cladrastis kentukea</i>	American Yellowwood
<i>Fagus grandifolia</i>	American Beech
<i>Fagus sylvatica</i>	European Beech
<i>Ginkgo biloba</i>	Ginkgo

<i>Gleditsia triacanthos inermis</i>	Thornless Common
<i>cultivars</i>	Honeylocust
<i>Gymnocladus dioicus</i>	Kentucky Coffeetree
<i>Liriodendron tulipifera</i>	Tuliptree
<i>Ostrya virginiana</i>	American Hophornbeam
<i>Platanus x acerifloia</i>	London Planetree
<i>Quercus alba</i>	White Oak
<i>Quercus bicolor</i>	Swamp White Oak
<i>Quercus imbricaria</i>	Shingle Oak
<i>Quercus macrocarpa</i>	Bur Oak
<i>Quercus muehlenbergii</i>	Chinkapin Oak
<i>Quercus rubra</i>	Red Oak
<i>Tilia americana</i>	American Linden
<i>Tilia cordata</i>	Littleleaf Linden
<i>Ulmus cultivars ‘Accolade’</i>	
<i>‘Triumph’</i>	Accolade Elm, Triumph Elm
<i>Zelkova serrata</i>	Japanese Zelkova

Section 3.07.2 – PARKWAY TREE REQUIREMENTS

2. *Size.* All parkway trees shall be two and one-half inch minimum caliper, except approved oak species which may be two inch caliper. Maximum installed size for any parkway tree shall be four inch caliper unless otherwise approved. Measurements shall be taken six inches above ground level as grown at the nursery.

Section 3.08.1 – PARKING LOT ISLANDS, QUANTITY, SIZE

1. *Quantity, size.* One landscaped island shall be provided for each 15 parking spaces. The minimum size of each landscaped island shall be 270 square feet, with a minimum dimension in any direction of 13 feet for 90 degree parking and 4 feet for angle parking, measured from inside face of curb to inside face of curb. The consolidation of required landscaped parking lot islands into fewer, larger islands is encouraged. Islands shall be distributed throughout the parking area to achieve a balanced appearance.

Section 3.08.2 – PARKING LOT ISLANDS, LANDSCAPE REQUIREMENTS

2. *Landscape requirements.* Each landscaped island shall be planted with a minimum of one 3” minimum caliper shade tree unless otherwise approved. If required area of landscaped islands is consolidated, two, 3” minimum caliper shall be provided per 450 square feet of area at a minimum.

Section 3.10 – MONOTONY

That section 3.10 of the Code of Ordinances, Village of Vernon Hills, Illinois, is hereby amended by adding:

TABLE INSET

Evergreen Trees	
Abies concolor	White Fir
Picea abies	Norway Spruce
Picea pungens	Colorado Blue Spruce

TABLE INSET

Evergreen Shrubs	
Juniperus chinensis spp.	Juniper
Taxus spp	Yew
Thuja spp.	Arborvitae

Section 3.16.10 – INSTALLATION

10. All evergreen trees six feet in height and over, and deciduous shade trees three-inch caliper and over shall be guyed prior to acceptance with three ground mounted anchors and stainless steel or galvanized steel cable and hardware unless otherwise approved. Anchors shall be equidistant from the trunk and spaced 120 degrees apart. Anchors shall not extend above the ground line. Location of guy wires shall not pose a hazard to the public. Anchors, cables, and hardware are to be removed after 12 months. Wrap trunks of all Acer and Tilia specie shade trees spirally from the ground up to height of second branch with specified tree wrap and twine when planted in the fall. Wrapping and twine are to be removed after 6 months.

SECTION II. That Appendix B, Article II, Section 4.0, Detention Pond Planting and Specification is hereby added and will read as follows:

- 4.0 Detention Pond Planting Specifications.
 - 4.01 *Applicability.* This section shall apply, unless otherwise noted, to all land within the corporate boundaries of the village.
 - 4.02 *Procedure.* The size and shape of the detention pond to be proposed by the developers engineer and approved by the Village Engineer. Once approved, the Detention Pond Planting Specifications and Details found in Exhibit No. 47 shall be used as development regulations around the pond.
 - 4.03 *Detention Pond Planting Specifications.*
 1. Mesic & Wet Prairie Community (Seeds)

(N.W.L. to top of slope) 4:1 Slope, See Exhibit No. 47

- a. *Bed Preparation.* Existing vegetative growth shall be removed or killed with an approved herbicide (Rodeo). Till surface of seedbed to 2"-4" and till as close as possible to waterline. Lightly compact soil with roller, culti-packer, or similar implement. Omit tilling if using a no-till seed drill.
- b. *Seeding.* Alternative seed shall be refrigerated for at least 90 days prior to installation. The seed must be of wild ecotype. No hybrids or cultivars may be included. Mix seed with an equal volume of coarse sand, vermiculite or oats. Seed mixes shall contain at least 70% of the species listed and no one species shall constitute more than 10% of the total seed mix by weight. Any deviation from the plant list is to be submitted to the Village for review and approval prior to installation.

Broadcast seeds evenly either by hand or no-till drill seeder, cyclone spreader, or shoulder mount spreader. Spread seed in different directions to cover evenly. If not included in seed mix, plant nurse crop of seed oats at 40lbs/acre with seed mix. Roll seed into soil to ¼" depth with culti-packer or similar implement.

No seeding shall occur until N.W.L. is reached and sustained with Detention Pond.

- c. *Seeding Dates.*
May 15-----June 30
July 1-----October 31 (irrigation twice per week for 60 days)
November 1----December 1 (dormant seeding)
- d. *Fabric Installation.* Install erosion control blanket, North American Green SC250 or equal along N.W.L., 6.5' width, ½ width or 3.25' below water and ½ width or 3.25' above water around perimeter of pond. Install North American Green DS75 from limits of SC250 to top of slope. Install as per manufacturers guidelines. For exact locations, see Exhibit No. 47.

Mesic Community

	Lbs/Acre
<u>Grasses and Sedges</u>	
Andropogon gerardii (Big Bluestem)	3.000
Andropogon scoparius (Little Bluestem)	3.000

Elymus canadensis (Virginia Wild Rye)	0.188
Elymus virginicus (Virginia Wild Rye)	0.188
Panicum virgatum (Switchgrass)	0.250
Sorghastrum nutans (Indian Grass)	4.500
Avena sativa (Oats)	40.000

Wildflowers

Aster laevis (Smooth Dull Aster)	0.125
Aster novae-angliae (New England Aster)	0.125
Baptisia leucantha (White False Indigo)	0.125
Coreopsis tripteris (Tall Coreopsis)	0.188
Echinacea purpurea (Purple Coneflower)	0.250
Eryngium yuccifolium (Rattlesnake Master)	0.250
Helianthus grosseserratus (Sawtooth Sunflower)	0.188
Heliopsis helianthoides (False Sunflower)	0.188
Liatris spicata (Dense Blazing Star)	0.025
Monarda fistulosa (Bergamot)	0.125
Petalostemum purpureum (Purple Prairie Clover)	0.188
Pycnanthemum virginianum (Mountain Mint)	0.016
Ratibida pinnata (Yellow Coneflower)	0.250
Rudbeckia hirta (Black-Eyed Susan)	0.188
Rudbeckia subtomentosa (Sweet Black-Eyed Susan)	0.188
Silphium laciniatum (Compass Plant)	0.125
Silphium terebinthinaceum (Prairie Dock)	0.063
Solidago rigida (Stiff Goldenrod)	0.125
Tradescantia ohioensis (Spiderwort)	0.090
Veronia fasciculata (Common Ironweed)	0.188
Veronicastrum virginicum (Culver's Root)	0.063
Zizia aptera (Heartleaved Alexander)	0.125

Wet Prairie Community

Grasses and Sedges

Carex comosa (Bristly Sedge)	0.125
Carex hystericina (Porcupine Sedge)	0.125
Carex lupulina (Hop Sedge)	0.125
Carex stipata (Awl-Fruited Sedge)	0.125
Carex vulpinoidea (Brown Fox Sedge)	0.125
Elymus virginicus (Virginia Wild Rye)	0.188
Glyceria striata (Fowl Manna Grass)	0.125
Leersia oryzoides (Rice Cut Grass)	0.125
Scirpus atrovirens (Dark Green Bulrush)	0.125
Spartina pectinata (Prairie Cordgrass)	0.125
Avena Sativa (Oats)	40.000

Wildflowers

Angelica atropurpurea (Angelica)	0.125
Asclepias incarnata (Swamp Milkweed)	0.083
Aster novae-angliae (New England Aster)	0.125

Aster umbellatus (Flat-topped Aster)	0.125
Eupatorium maculatum (Spotted Joe-Pye Weed)	0.063
Eupatorium perfoliatum (Boneset)	0.188
Helenium autumnale (Autumn Sneezeweed)	0.063
Liatris spicata (Marsh Blazing Star)	0.025
Lobelia cardinalis (Cardinal Flower)	0.088
Pycnanthemum virginianum (Mountain Mint)	0.016
Silphium intergrifolium (Rosinweed)	0.125
Solidago riddellii (Riddell's Goldenrod)	0.125
Verbena hastate (Blue Vervain)	0.063
Veronia fasciculata (Smooth Ironweed)	0.063

2. Shallow Water Emergent Community (Plugs)
(N.W.L. to two linear feet (2' down from pond side slope)
4:1 Slope, See Typical Planting Section.

a. *Bed Preparation.* Prior to planting, pump down or drain pond level to facilitate installation of erosion fabric.

b. *Fabric Installation.* Center of 6.50' erosion control blanket North American Green, SC 250 or equal, shall be placed at normal water level and rolled along entire shoreline. Install as per manufacturers guidelines.

c. *Planting Dates*

May 15-----June 30

July 1-----October 31 (irrigation twice per week for 60 days)

d. *Product*

Plugs shall have a minimum size of 2" diameter and 4" depth and shall be thoroughly rooted through the container.

e. *Plug Installation*

Emergent plant plugs shall be installed at the water line to 6" depths. Cut through fabric and install plants at 18" o.c., staggered. Evenly distribute each species around pond, planting in groups of 3 to 5 plants of each species.

No installation should occur until N.W.L. is reached and sustained within Detention Pond.

Shallow Water Emergent Community, 0-1 foot depth.

Graminoids

Carex stricta (Common Tussock Sedge)
Eleocharis smallii (Creeping Spike Rush)
Juncus effusus (Common Rush)
Scirpus acutus (Hardstem Bulrush)
Scirpus americanus (Chairmaker's Rush)
Scirpus fluviatillis (River Bulrush)
Scirpus tabernaemontani (Softstem Bulrush)

Forbs

Acorus calamus (Sweet Flag)
Alisma subcordata (Common Water Plantain)
Iris virginica (Blue Flag Iris)
Polygonum amphibium (Water Smartweed)
Pontederia cordata (Pickerel Weed)
Sagittaria latifolia (Broadleaf Arrowweed)
Sparganium eurycarpum (Common Burreed)

3. Deep Water Emergent Community (Aquatics)
(Beyond Shallow Emergent Community in 12" to 24"
of water depth.)

- a. *Plug Installation.* Emergent plant plugs or floating leaf plants shall be installed in 12" to 24" water depths. Cut through fabric and install plants at 18"-24" o.c., staggered for twenty linear feet (20') and repeat again every sixty feet (60') around entire pond perimeter.

No installation should occur until N.W.L. is reached and sustained within Detention Pond.

Deep Water Emergent Community 1.0 – 2.0 foot depth

Nuphar advena (Yellow Pond Lily)
Nymphaea tuberosa (White Water Lily)
Potamogeton natana (Common Pondweed)
Potamogeton pectinatus (Sago Pondweed)

4. Acceptance

- a. *Mesic & Wet Prairie Community (Seeds)*
At the beginning of the second growing season, the following conditions shall be met:

Coverage: 25% of each plant community shall be covered with vegetation.

Presence: 40% of the species shall be alive and present.

Abundance: 60% of the vegetation should be native species of the permanent matrix.

At the beginning of the third growing season, the following conditions shall be met:

Coverage: 50% of each plant community shall be covered with vegetation.

Presence: 60% of the species shall be alive and present.

Abundance: 80% of the vegetation should be native species of the permanent matrix.

b. Shallow Water Emergent Community (Plugs)

At the end of the first growing season, the following conditions shall be met:

1. 95% of the plugs shall be alive and thoroughly rooted.
2. 50% of the shoreline shall be covered within three (3) years.

c. Deep Water Emergent Community (Aquatics)

At the end of the first growing season, the following conditions shall be met:

1. 75% of the species shall be alive and present.
2. 40% of the shoreline shall be covered within three (3) years.

5. Maintenance.

1st Year: Mow at 6" when the oats set seed heads.

Mow again when competitive weeds are at 8"-12" in height. Cut back to 6" with flail type mower two or three times during the first season.

2nd Year: Keep area mowed at 12” to control weed competition. Mow in late May and late June. Maintain goose barrier control for 2 years. Then remove fencing, lathe, and monofilament.

3rd Year: Prescribed/controlled burn the area in mid-Spring. If burning is not an option, mow again to control weeds but remove the clippings. Do not burn or mow after new plant growth has reached 12” or taller.

Long – Term Management: Employ the services of a qualified and licensed company to manage prairie plantings and control species deemed detrimental such as Purple Loosestrife, Canada Thistle, Reed Canary Grass, Queen Anne’s Lace, Sweet Clover, Cattails, Common Teasel, Ragweeds, Buckthorn, and Sandbar Willow.

6. Goose Barrier Control.

a. Installation

Set first row of stakes in 18” of water depth at 8 foot intervals around entire pond. Drive each stake 1 foot into bottom. Attach 48” high poultry netting, 20 gauge, around entire area. Extend to pond bottom. Set second row of stakes 8 feet up and also at 8 foot intervals around entire pond. Drive each stake 6”-12” into ground. To protect top enclosure, attach two rows of monofilament line and secure red survey ribbons to stakes.

7. Upland Forest Community.

a. Quantity.

To determine minimum quantity required, divide the length around the pond at the top of the slope by 40’ (feet). Trees to be planted in groups by species around the perimeter of the pond and not intended to be planted at 40’ o.c. spacing. Bald Cypress should be planted near water’s edge. Spacing and species to be shown on overall landscape plan. All trees to be alive and thriving at time of acceptance and at end of two-year maintenance period.

8. Signage.

a. Instructional Signs

Signs to be placed at 150' intervals around perimeter of pond. Signs shall be metal, 12" x 18" in size, with green background and white lettering that reads: NATIVE PRAIRIE DO NOT MOW. Sign to be mounted on a green channel post. Top of sign to be five feet (5') above ground.

2. Section 3.00– APPENDIX A, List of Acceptable Parkway Trees

That section 3.00 – Appendix A, of the Code of Ordinances, Village of Vernon Hills, Illinois, is hereby amended to read as follows:

Appendix A

List of Acceptable Parkway Trees
Date of Last Revision: June 3, 2008

TABLE INSET

Botanical Name	Common Name
<i>Acer freemanii cultivars</i>	Freeman Maple
<i>Acer miyabei</i>	Miyabe Maple
<i>Acer platanoides cultivars</i>	Norway Maple
<i>Acer saccharum cultivars</i>	Sugar Maple
<i>Aesculus glabra</i>	Ohio Buckeye
<i>Aesculus hippocastanum</i>	Common Horsechestnut
<i>Celtis occidentalis</i>	Common Hackberry
<i>Cladrastis kentukea</i>	American Yellowwood
<i>Fagus grandifolia</i>	American Beech
<i>Fagus sylvatica</i>	European Beech
<i>Ginkgo biloba</i>	Ginkgo
<i>Gleditsia triacanthos inermis cultivars</i>	Thornless Common Honeylocust
<i>Gymnocladus dioicus</i>	Kentucky Coffeetree
<i>Liriodendron tulipifera</i>	Tuliptree
<i>Ostrya virginiana</i>	American Hophornbeam
<i>Platanus x acerifloia</i>	London Planetree
<i>Quercus alba</i>	White Oak
<i>Quercus bicolor</i>	Swamp White Oak
<i>Quercus imbricaria</i>	Shingle Oak
<i>Quercus macrocarpa</i>	Bur Oak

<i>Quercus muehlenbergii</i>	Chinkapin Oak
<i>Quercus rubra</i>	Red Oak
<i>Tilia americana</i>	American Linden
<i>Tilia cordata</i>	Littleleaf Linden
<i>Ulmus cultivars 'Accolade' 'Triumph'</i>	Accolade Elm, Triumph Elm
<i>Zelkova serrata</i>	Japanese Zelkova

All proposed cultivars to be approved by the Village Arborist prior to installation. Any other specie of trees proposed to be placed in the parkway to be approved by the Village Arborist prior to installation.

SECTION III. That Appendix B, Appendix II – Engineering Specifications is hereby amended to read as follows:

Section L.7.c Tree planting requirements

- c. The following list of trees are acceptable to the village for planting in the parkways and other public areas:

Large trees – 50 feet and over in height and 40 feet and over in spread:

Freeman Maple cultivars
Miyabe Maple
Norway Maple cultivars
Sugar Maple cultivars
Ohio Buckeye
Common Horsechestnut
Common Hackberry
American Yellowwood
American Beech
European Beech
Ginkgo
Thornless Common Honeylocust cultivars
Kentucky Coffeetree
Tuliptree
American Hophornbeam
London Planetree
White Oak
Swamp White Oak
Shingle Oak
Bur Oak
Chinkapin Oak
Red Oak
American Linden
Litteleaf Linden
Elm cultivars, 'Accolade', 'Triumph'
Japanese Zelkova

All proposed cultivars to be approved by the Village Arborist prior to installation. Any other specie of trees to be placed in the parkway to be approved by the Village Arborist prior to installation.

SECTION IV. Severability. In the event that any section, clause, provision, or part of this ordinance shall be found and determined to be invalid by a court of competent jurisdiction, all valid parts that are severable full force and effect. If any part of this ordinance is found to be invalid in any one or more of its several applications, all valid applications that are severable from the invalid applications shall remain in effect.

SECTION V. Repeal and Savings Clause. All ordinances or parts of ordinances in conflict herewith are hereby repealed; provided, however, that nothing herein contained shall affect any rights, actions or causes of action which shall have accrued to the Village of Vernon Hills prior to the effective date of this ordinance.

SECTION VI. Effective Date. This ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

SECTION VII. This ordinance shall be known as Ordinance 2008-039.

Adopted by roll call vote as follows:

AYES: 6-Koch, Marquardt, Schultz, Schwartz, Williams, Hebda

NAYS: 0-None

ABSENT AND NOT VOTING: 0-None

Roger L. Byrne
Village President

PASSED: 06/03/2008

APPROVED: 06/03/2008

PUBLISHED IN PAMPHLET FORM: 06/05/2008

ATTEST:

Linda Pelletier
Village Clerk