TITLE 13: TREE PRESERVATION & LANDSCAPING
CHAPTER 1: TREE PRESERVATION

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13-1-1: PURPOSE; FINDINGS:
The purpose of this Chapter is to preserve, protect, replace and properly maintain trees within the Village and protect the public from trees which pose a threat or danger because

A. Trees are an important public resource.

B. Trees preserve and enhance the Village's physical and aesthetic environment, especially its natural and unique atmosphere;

C. Trees enhance the air quality by absorbing carbon dioxide, filtering out air pollutants, and providing oxygen;

D. Trees reduce topsoil erosion by the holding effect of their roots;

E. Trees reduce storm water runoff and replenish groundwater supplies;

F. Trees provide a buffer and screen against noise pollution;

G. Trees reduce energy consumption by acting as a windbreak and producing shade;

H. Trees preserve and enhance nesting areas for birds and other wildlife which, in turn, assist in the control of insects;

I. Trees protect and enhance property values;

J. Trees protect and enhance the quality of life and the general welfare of the Village.

13-1-2: DEFINITIONS:

6" Grouping of Trees	Any grouping of two or more adjacent Appendix A trees, growing in close proximity that have a combined DBH of 6" or greater. Every six inches of such a grouping shall be the equivalent of a 6" tree.
Appendix a tree	A desirable and/or significant species of tree is listed on Appendix "A" to this Chapter 1.
Arborist	An individual trained and experienced in the profession of forestry or other similarly degreed and/or licensed tree professional.
Coniferous tree	A tree mostly needle-leaved or scale-leaved, typically evergreen and/or cone-bearing such as pines, spruces, and firs.
Caliper inch(es)	Units used to describe a tree's diameter as measured by calipers or a diameter tape.
Conservancy area	Any area designated by the Village, state agency, or by Village approved subdivision or restriction, to be kept in a particular natural state or for special environmental preservation or control.
Deciduous tree	A deciduous tree is one that loses most or all of its leaves for part of the year. Deciduous trees are also considered to be broad-leaf or hardwood trees.
Development	Any proposed change in the use or character of land, including, but not limited to, the replacement of any structure or site improvements. When appropriate to the context, development may refer to any conduct which requires the receipt of a building, or site work permit.
Diameter breast height (dbh)	The diameter of the trunk of the tree measured in caliper inches at a point 4.5 feet above the ground line. This point of measurement is used for established and mature trees and is referred to as DBH. All references to diameter size shall be to the DBH.
Evergreen tree	A tree that retains most of its leaves for most of the year.
Hazard	A declining tree which, as determined by the Village, would cause damage or injury to a target such as a structure or person.
Heritage tree	Large mature trees requiring special consideration including all trees in the Genus Quercus (oak), Carya (hickory), or Juglans (walnut) species which have a DBH of twenty inches (20") or greater.

Impacted tree	A tree that has been negatively affected by proximity to development, vehicle or equipment traffic, material storage, excavation, or other damages as determined by the Village
Invasive	Non-native species of tree, shrub, or plant which reproduce rapidly and threaten to cause economic or environmental harm to native vegetation and/or human health.
Multi-stem tree	A single tree made up of three or more main stems originating below the height used for measuring DBH.
Natural amenity exception	A landscape and preservation plan intended as a substitute for the replacement requirements of this Chapter.
Non-appendix "a" tree	A tree not on the appendix "A" list, with a single or double trunk at ground level to near DBH.
Nuisance	A tree, shrub, or plant material that is dead, dying, diseased, or otherwise no longer viable and poses a threat to persons, property, or other viable trees. Also includes invasives and certain species tree, shrub, or plant harboring pests or species undesirable to native landscapes; e.g. Partially fallen trees, Acer negundo (box elder), Maclura pomifera (Osage orange).
Open space area	An open space on the same lot or parcel with a building, that, with the exception of trees and other vegetation, is to be unoccupied and unobstructed from the ground upward.
Parcel	A lot of record, zoning lot or any grouping of adjacent lots under single ownership, serving a principal structure or use.
Rear yard	Rear yard as used in Chapter 1 shall have that meaning ascribed to it in the Lincolnshire Zoning Code. (Title 6)
Significant	Trees that are desirable for the landscape, including Appendix "A", non- Appendix "A", and native species which are greater than 10" DBH, viable and in good form.
Site	That parcel of land for which a permit for landscaping or tree removal is sought.
Transplanting	The removal of any tree for replanting elsewhere.
Tree	Any self-supporting woody plant, together with its root system, growing upon the earth usually with one trunk, or a multi-stemmed trunk system, supporting a definitely formed crown. For regulatory purposes of this Chapter 1, the plant commonly referred to as "buckthorn" shall not be

considered as a tree.

Tree bank — An account containing defaulted funds as a result of the inability to meet tree accountability requirements. These funds are to be utilized by the Village for planting and re-planting trees and hazardous or nuisance tree removals throughout the community.

Tree removal — The cutting down, destruction, removal, or relocation of any tree.

Tree survey — A document that identifies, by common name and/or scientific name, certain species of trees of a specified DBH within a particular site. The survey shall list, as required by the Village, all existing and proposed trees and shall specifically state whether each tree is proposed to be destroyed, relocated, replaced, preserved at its present location, or introduced into the development from an off-site source. The Village may provide that the tree survey exclude those portions of the site that it determines will not be affected by the development activity. Any tree survey required by this Chapter 1 must be dated within thirty-six months of the tree removal permit application.

Unattached amenity — Any swimming pool, gazebo, garage, patio, play apparatus, basketball court, tennis court, tent, or similar structure or installation which is not attached to the principal building on the lot.

Viable — A tree, which in the judgment of the Village is capable of sustaining its own life processes, unaided by man, for a reasonable period of time.

13-1-3: TREE PROTECTION

Tree protection may be required wherever development activity will occur within 25' of the base of any tree.

A. Tree protection fencing shall be six feet (6') high chain-link, with steel posts driven into the ground at not more than ten foot (10') intervals. {*see Figure 1 below*} Fencing shall be placed a minimum of fifteen (15) feet from the trunk of any tree to be protected.

B. Tree protection shall remain in place, upright, and in good condition for the duration of the development activity. No machinery, equipment, or material storage is permitted outside of paved areas once tree protection is removed.

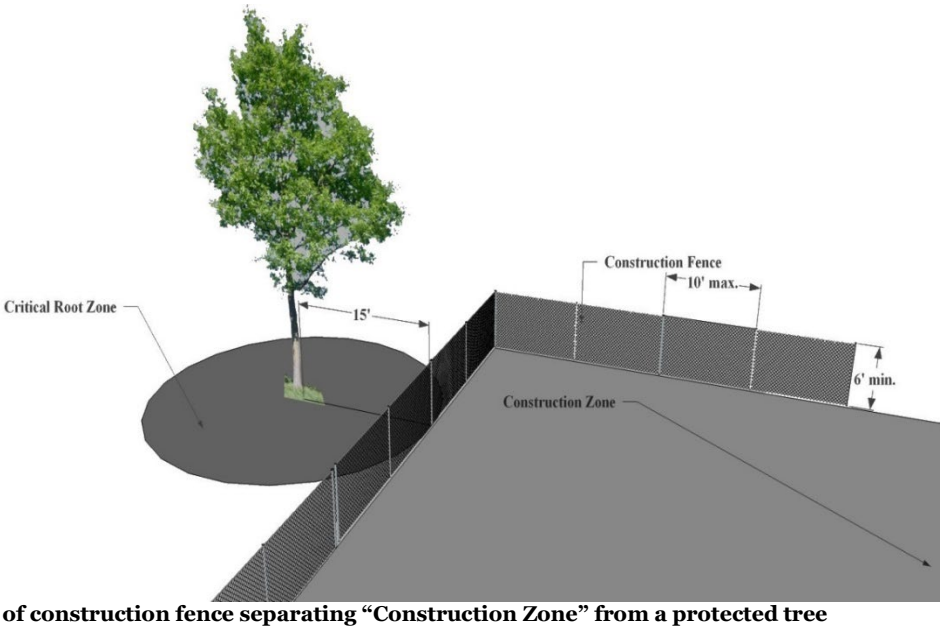
C. Any tree not separated from development activity by an approved tree protection fence at least 15' from the base of the tree shall be considered "impacted", and subject to a cash deposit as detailed in Section 7 of this chapter.

D. Root zone protection shall consist of a minimum six-inch (6") thickness of wood mulch and two

layers of ¾" plywood. Root zone protection shall extend to the limits of development activity or a minimum of fifteen feet (15') from the base of the tree.

E. Trees that the Village designates as an impacted tree may require mitigation by a Certified Arborist including, but not limited to; Vertical Mulching (to reduce soil compaction), Mycorrhizal Fungal and Rhizosphere Bacterial Inoculation (to promote root re-growth and improved nutrient uptake efficiency) or growth regulator (Cambistat™) treatment, as directed by the Village.

Figure 1



Example of construction fence separating "Construction Zone" from a protected tree

13-1-4: GENERAL REQUIREMENTS

A. Permit Required: Approval from the Village is required for the removal of any tree six inches (6") DBH or greater, or any 6" grouping of trees prior to the start of any improvements which involve excavation, trenching, or placement of additional soil and/or hardscape materials within the root zone of trees, or which affect drainage patterns on the premises or adjacent properties.

B. Approval: Approval from the Village shall consist of a written order, permit, or other documentation signed by an authorized representative of the Village. In the event of an emergency, verbal authorization from the Village may be given, with written approval and/or documentation provided after the fact.

C. Valuation: Each tree in the Village shall be assigned a replacement value in accordance with the Comprehensive Fee Schedule. The Village shall, from time to time, evaluate the actual cost of purchasing and planting replacement trees and modify the replacement value if necessary.

D. Tree Inventory: When the number of trees included on a tree survey cannot be clearly labeled, a detailed table of all trees shall be provided indicating tree tag number, size, species, condition, and removal/protection status. Coordinating tree tags shall be weather resistant metallic, and securely affixed to trees at approximately eye level.

E. Equivalent Value: Differing species and sizes of trees shall have a valuation based upon Appendix

"A" tree replacement fee.

1. Appendix "A" trees are calculated at 100% value.
2. Heritage Trees are calculated at 200% value.
3. Non-appendix "A" trees are valued at 1/3, or 33.3% of appendix "A" values.
4. Multi-stem and coniferous trees are valued according to the tree conversion chart, Appendix "C" of this Chapter.

13-1-5: APPLICATION PROCEDURE

A. Application Submission: An applicant seeking a tree removal permit shall submit to the Village three (3) copies of a legible plan (a "Tree Preservation Plan") indicating the following information for the entire site:

1. Property address.
2. Scale: 1 inch equals 20 feet or 1 inch equals 30 feet depending on the lot size.
3. Plan Title: Tree Preservation Plan or Tree Preservation and Grading Plan.
4. Property line boundaries and easements.
5. Front, side, and rear yard setbacks.
6. Existing and proposed driveways, walkways, patios, and other impervious surfaces/structures.
7. Existing and proposed building footprint.
8. Existing and proposed grades and drainage ways.
9. If required, a Tree Inventory as outlined previously in this chapter.
10. Location, size, and species of all trees on abutting properties and/or rights-of-way within fifteen (15) feet of development activity.
11. All trees to be removed are marked with an "X" or other notation.
12. Location of chain link tree protection fencing.
13. Location of silt fencing (required to run parallel to the tree protection fencing on the development activity side).
14. Location of all new utility lines (gas, electric, water, cable, phone, etc.).
15. Location of all utility-related excavation pits.
16. Location and description of any additional Tree Preservation requirements (root pruning, plywood access routes, mulching, etc.).
17. Location of equipment/supply storage and staging.
18. Identification of uses on adjacent properties.
19. Existing and proposed elevations with contour lines at one foot (1') intervals.

EXCEPTION: Removal of dead trees or invasive species may be approved at the Village's discretion with a sketch of the general location in lieu of the details above.

B. Application Review: The Village shall review the application. This review may include an inspection of the site and referral of the application for recommendation to other appropriate administrative departments or agencies. The Village shall render a decision on the application within fifteen (15) business days of its receipt of a properly completed application.

13-1-6: TREE REMOVAL

The Village may allow for the removal of a tree based on one or more of the following criteria:

A. Tree is determined by the Village to be dead, dying, diseased, or otherwise non-viable. Tree replacement is not required unless part of a required landscape plan, e.g. Commercial building site, PUD, or subdivision.

B. Tree is determined by the Village to be a hazard or a nuisance. This includes a tree that creates an unsafe vision clearance or a tree interfering with utility services. Tree replacement is not required unless the hazardous condition was created or permitted by the owner of the Parcel.

1. Falling limbs due to improper pruning, care, or maintenance do not necessarily constitute a hazardous condition.

C. Tree removal is determined by the Village to constitute good forestry management. Thinning of an overcrowded canopy, reduction of less significant species, or removal to allow more significant species to thrive, are all examples of good forestry management. Tree replacement is not required.

D. Tree removal related to development. Property development and improvements shall be designed in a manner that maintains existing significant trees wherever possible. The Village shall encourage roads, utilities, driveways, principle structures, and detached amenities to be placed as to reduce impact on viable mature trees. Development-related tree removals may be permitted only in compliance with the following conditions:

1. Cash deposits shall be provided to the Village in accordance with the calculations provided in this chapter.
2. Tree replacement plan shall be provided to the Village for review and approval. The replacement plan shall indicate the proposed location, species, and size of all proposed and existing trees. The replacement plan may be superimposed over the approved tree preservation plan.
3. Unattached amenities – No tree may be removed for the purpose of installing or erecting an unattached amenity if the total area of existing and proposed unattached amenities exceed 10% of the entire rear yard. No Heritage Tree may be removed for the purpose of installing or erecting an unattached amenity.
4. Rear Yard – A single open space area in the rear yard may be created for each Single Family Residential home site, provided the area to be cleared does not exceed 10% of the entire rear yard. No Heritage Tree may be removed solely for the creation of an open space area.
5. Non-Single Family Residential sites with an approved landscape plan may be required to revise their entire plan if the proposed development causes tree removal exceeding 25% of the existing trees.
6. Any proposed removal of four or more Heritage Trees from a single parcel will require prior approval from the Village.

13-1-7: CASH DEPOSITS

Cash deposits, when required by this Code, shall be provided to the Village prior to issuance of any tree removal. A deposit will be held in a Village account and accounted for until such time as it is eligible for return or forfeiture.

A. Cash deposits for *tree removals* shall be calculated at 100% of Equivalent Value.
1. Cash deposits shall be held until replacement trees are planted and subsequently inspected and approved by the Village.
2. Replacement trees shall be installed, inspected, and approved prior to issuance of Final Certificate of Occupancy, or expiration of building permit.

B. Cash deposits for impacted trees shall be calculated at 50% of Equivalent Value.
1. Cash deposits shall be held for a period of five years after completion of associated

construction or date of impact.

2. Village shall inspect impacted trees at the end of the five-year period, and return the deposit if it is determined by Staff the tree remains viable.
3. If at any time during the five-year period the tree becomes non-viable, as determined by the Village, for reasons caused by the development impact, the remaining 50% of the Equivalent Value shall be deposited with the Village within 30 days of notification from the Village.
4. If at any time during the five-year period, the subject property is sold, the remaining 50% of the Equivalent Value shall be deposited with the Village prior to the sale of the property transfer stamp.

C. Deposits that are determined to be ineligible for return after the prescribed period of time will be forfeited to the Village's Tree Bank.

D. Village Use of Tree Bank Funds: When the total amount of required replacements cannot be installed, or are not installed and approved before the Code prescribed completion date, Equivalent Value of trees not planted will be forfeited to the Village Tree Bank. The Village may use the forfeited funds to perform unrelated removals and replacements throughout the community.

E. Cash deposits for removals requiring replacement on non-Single Family Residential sites shall be calculated at the equivalent value of the proposed replacement.

13-1-8: TREE REPLACEMENT

Where required, replacement trees shall be provided in accordance with this section.

A. Trees removed from Single Family Residential (SFR) home sites shall be replaced on an inch-per-inch DBH basis, as adjusted for Equivalent Value.

B. Trees removed from non-SFR sites (multi-family, commercial, subdivisions, etc.) shall be replaced on a tree-per-tree basis, as adjusted for Equivalent Value.

C. When appendix "A" trees are removed, they shall be replaced with appendix "A" trees, unless otherwise specified in the Code.

D. When non-appendix "A" trees are removed, they may be replaced with appendix "A" or non-appendix "A" trees.

1. Equivalent value shall be used to determine required replacements when inch-per-inch replacement is required.

E. Minimum size for single-stem replacement trees is 2.5" (two and one-half inches) DBH. Multi-stem and coniferous replacements shall be a minimum 8' (eight feet) in height from top of root ball to highest point of tree.

F. Replacement trees shall be suitable for the proposed location and approved by the Village.

1. Proposed planting locations shall allow for trees to survive and thrive. Considerations shall be made regarding sun exposure, overhead wires, underground utilities, proximity to existing buildings and roadways, and soil condition.
2. The Village may request the proposed replacement trees be evaluated by a Certified Arborist, prior to approval.

G. Diversity: Due to devastating losses to Elm and Ash tree populations, the Village strives to provide a diverse tree canopy which is resistant to pests, pathogens, and natural disaster. The Village may require substitution of proposed replacement trees in order to achieve desired diversity of species, genus, or family.

H. Tree replacement plan shall be provided to the Village for review and approval. Replacement plan shall indicate the proposed location, species, and size of all proposed and existing trees.

I. Tree replacements on property other than Single Family Residential lots shall comply with Title 13, Chapter 2 of this Code.

J. Off-site replacements: The Village may allow for replacement trees to be installed outside of the Parcel from which trees were removed under specific conditions:

1. Off-site location is owned by the same party from which trees were removed.
2. Off-site location is part of a development or subdivision inclusive of the Parcel from which trees were removed.
3. Off-site location is Village owned property and replacement plan is approved by Village Manager or Public Works Director.

13-1-9: CONSERVANCY AREAS

If a Conservancy Area is or may be, affected by any development, as determined by the Village, the following shall apply:

A. Restoration of designated "Conservancy Areas" damaged, whether during development or after occupancy, shall comply with the minimum requirements outlined in Appendix "B" of this Chapter.

B. Deposit: A cash deposit (in addition to any Tree Removal cash deposit) is required for every one thousand (1000) square feet, or part thereof, of Conservancy Area, impacted by development, as defined in the Comprehensive Fee Schedule Chapter 15 Title 1 of the Village Code.

C. Purpose of Deposit: The purpose of the deposit is to pay for:

1. A guarantee of the restoration of Conservancy Areas damaged directly or indirectly as a result of development, in accordance with the "Conservancy Area Restoration Requirements" contained in Appendix B of this Chapter.
2. Any maintenance made necessary as a result of development or restoration, including but not limited to the removal of dead trees or preventative measures such as root pruning or crown reduction of existing trees.
3. Any expenses incurred by the Village, as a result of the development or restoration, in administering or enforcing the provisions of this Code.

F. Refunding of Deposit: Any remaining amount in the cash deposit will be refunded one year after the Certificate of Occupancy is issued or one year after the public improvements are accepted by the Village Board in cases where a Certificate of Occupancy is not to be issued as outlined in Section 13-1-3-D.

G. Maintenance Restrictions: No sodding, or grading, either excavation or filling shall take place within a designated conservancy area. Fences, buildings, or structures, either permanent or temporary, shall not be placed within a conservancy area. It shall be unlawful for any persons to store yard waste in a conservancy area, including but not limited to grass clippings, compost piles,

landscape brush, or firewood. The removal or addition of any trees, brush, or plant materials within a designated conservancy is prohibited unless prior approval is granted by the Village. Buckthorn is permitted to be removed from a conservancy area on a case-by-case basis at the discretion of Village Staff.

13-1-10: APPEALS

Any person aggrieved by any decision of the Village staff in the enforcement of any terms or provisions of this Chapter may, within ten (10) days after the date of the decision, appeal to the Mayor and Board of Trustees by filing a written notice of appeal with the Village Clerk. The notice shall set forth concisely the decision and the reasons or grounds for the appeal. Reasonable notice of the hearing shall be provided by the Village Clerk to all affected parties. The Board may affirm, modify, or reverse the decision. The decision of the Board shall be final, and no petition for rehearing or reconsideration shall be available. The rules of evidence shall not apply to an appeal hearing. The hearing shall be conducted in a manner that affords reasonable due process.

13-1-11: PENALTIES

Any person found guilty of violating any provision of this Chapter shall be assessed a fine as prescribed in the Comprehensive Fine Schedule set forth in Chapter 17 of Title 1 of this Code. Each tree cut down, destroyed, damaged, removed or moved in violation of this Chapter shall constitute a separate offense. In addition to these penalties, if a tree is removed in violation of this Chapter 1, all replacement requirements of this Chapter shall be applied.

In lieu of, or in addition to, the payment of fines, the Village may require that violators of this Chapter take actions such as, but not limited to, soil aeration, vertical mulching, pruning, fertilizing, grade alteration, and/or tree replacement, to reduce and/or minimize tree damage.

13-1-12: ENFORCEMENT

A. Enforcement: Right of Entry of Village Officers

To carry out the purposes of this Chapter and to implement its enforcement, the Village is authorized and empowered to enter upon any parcel in the Village at all reasonable hours to inspect any tree or wood and to remove specimens from any such tree to determine their condition. It shall be unlawful for any person to interfere with a Village Officer carrying out the duties authorized in this Section.

B. Duty of Owner to Abate Nuisance or Hazard

If it is determined that there exists a public nuisance or hazard as declared in this Chapter, the Village may serve or cause to be served upon the owner or occupant of the parcel on which such nuisance or hazard is located, a written notice identifying the nuisance or hazard and requiring the owner or occupant to comply with the provisions of this Section. If the person upon whom such notice is served, fails, neglects, or refuses to remove and dispose of the tree or dead wood within thirty (30) days after service of such notice, the Village may proceed to remove and dispose of such nuisance tree or dead wood.

C. Service of Notice to Owner or Occupant

Service of notice provided for in this Chapter shall be affected by personal service or by certified mail addressed to (i) the occupant, or (ii) the person to whom the tax bill was sent for the general

taxes for the last preceding year on parcel on which the nuisance is located.

D. Village Abatement and Assessment of Costs

Any costs incurred by the Village in the abatement of a public nuisance or hazard as declared in this Chapter shall be assessed against the record owner of the land involved and the Village shall place a lien upon such property for those costs in the manner provided by law (65 ILCS 5/11-20-15).

13-1-13: CIVIL REMEDIES

In addition to any other remedies provided by this Chapter the Village shall have the following judicial remedies available for violations of this Chapter or any permit condition promulgated under this Chapter:

A. The Village may institute a civil action in a court of competent jurisdiction to establish liability and to recover damages for any injury caused by the removal of trees in contravention of the terms of this Chapter.

B. The Village may institute a civil action in a court of competent jurisdiction to seek injunctive relief to enforce compliance with this Chapter to enjoin any violation, and to seek injunctive relief to prevent irreparable injury to the trees or properties encompassed by the terms of this Chapter.

13-1-14: TREE PLANTING CREDIT

A. The Village will award tree credits to property owners who proactively plant trees on their property. This tree credit may be used to off-set future tree replacements when trees are removed on the same parcel. Trees planted for credit will only be credited for future replacements and only those trees appropriately recorded by the Village may be used for credit.

Following is the tree credit criteria:

1. Trees shall have a replacement value equal to the Equivalent Value described in Section 13-1-4-E.

2. Trees to be planted on the property must be a minimum of 2.5" in DBH or if clump or coniferous variety shall be a minimum planting height of 8 feet at the time of planting.

3. Tree species must be selected for appropriate locations to support their growth and development.

4. Trees planted for credit shall be verified by the Village.

5. Credit will only be given for tree planting if:

    a. The tree is tagged and verified on the property within the year it was planted.
    b. The tree is the minimum required size at time of verification.
    c. The tree species is appropriate for its location.
    d. The tree is of good form and health at the time of tree removal for which the owner applies for replacement credit.

6. Village Staff shall tag the tree and record the date, tree planting location and tree number

on the property survey. A property tree credit record shall be maintained in the property file for future reference.

7. When a tree replacement is required, the property owner shall request that the Village verify credit plantings from the property file and on the property.

8. Trees, planted for credit, must be in good form and health at the time of replacement credit. Trees in poor condition or form will not be credited.

9. The Village shall field verify for growth and the size. The DBH at time of replacement shall be the credit applied.

10. A tree credit will only be given once for each individual tree planted regardless of its size. For example: Two Appendix A credit trees are planted at 3" DBH. Within a year's time the trees are 5" in DBH each. That same year the property owner wishes to remove another Appendix A tree that is 8" in DBH. The two credit trees are valued at 10" and the tree to be removed is valued at 8". The two credit trees will be used as replacement for the 8" removal. No further credit will be given for the two credit trees.

13-1-15: APPENDICES

Appendix A: Significant Trees of Lincolnshire
Appendix B: Conservancy Area Restoration Requirements
Appendix C: Tree Conversion Chart

APPENDIX "A"
SIGNIFICANT TREES OF LINCOLNSHIRE

Common Name	Scientific Name
Black Maple	*Acer nigrum*
Red Maple	*Acer rubrum*
Sugar Maple	*Acer saccharum*
Ohio Buckeye	*Aesculus glabra*
Common Horsechestnut	*Aesculus hippocastanum*
Red Buckeye	*Aesculus pavia*
River Birch	*Betula nigra*
American Hornbeam	*Carpinus caroliniana*
Bitternut Hickory	*Carya cordiformis*
Shagbark Hickory	*Carya ovata*
Hackberry	*Celtis occidentalis*
Yellowwood	*Cladrastis kentukea*
American Beech	*Fagus grandifolia*
Thornless Honeylocust	*Gleditsia triacanthos*
Kentucky Coffeetree	*Gymnocladus dioica*
Butternut	*Juglans cenera*
Black Walnut	*Juglans nigra*
Sweetgum	*Liquidambar styraciflua*
Tulip Tree	*Liriodendron tulipifera*
Black Tupelo	*Nyssa sylvatica*
American Hophornbeam	*Ostrya virginiana*
White Oak	*Quercus alba*
Swamp White Oak	*Quercus bicolor*
Scarlet Oak	*Quercus coccinea*
Hill's Oak	*Quercus ellipsoidalis*
Shingle Oak	*Quercus imbricaria*
Bur Oak	*Quercus macrocarpa*
Chinkapin Oak	*Quercus muehlenbergii*
Chestnut Oak	*Quercus prinus*
Red Oak	*Quercus rubra*
Schumard Oak	*Quercus shumardii*
Black Oak	*Quercus velutina*
Linen	*Tilia americana*

**All trees on the Appendix A list denoted in RED that are measured at 20" or greater are designated as heritage trees.*

Other species that the Village deems acceptable for this area consistent with appropriate Arborist standards.(Amd. Ord. 95-1595-57, eff. 9/14/98)(Amd. Ord. 02-1803-13,eff.5/13/02)(Amd. Ord. 11-3194-16, eff. 3/14/11)

APPENDIX "B"

CONSERVANCY AREA RESTORATION REQUIREMENTS

(Amd. Ord. 15-3370-97)

The following are the minimum requirements for the restoration of designated "Conservancy Areas" that are damaged, whether during construction or after occupancy. Prior to restoration, the Village will review the damaged site and approve the proposed restoration plan.

The entire disturbed area shall be cleared of all debris and unsuitable soil, and graded if necessary. The distributed area shall be covered with two inches (2") of approved topsoil, if necessary, and two inches (2") of leaf compost. This action shall be taken immediately and protective fencing replaced if construction is in progress. Plantings on the approved restoration plan shall be planted in accordance with the approved plan specifications during the first appropriate planting season. All plant material shall be guaranteed for a minimum of one year.

The listed material is per 150 Sq. Ft. of damaged area.

CANOPY TREES – DRY SITES: One 2 ½ inch caliper and four (4) seedlings

Scientific Name	Common Name
Quercus alba	White Oak
Quercus rubra	Red Oak
Acer rubrum	Red Maple
Acer saccharum	Sugar Maple
Gymnocladus dioicus caroliniana	Kentucky Coffee Tree
Celtis occidentalis	Hackberry
Carya Ovata	Shagbark Hickory

CANOPY TREES – WET SITES: One 2 ½ inch caliper and four (4) seedlings

Scientific Name	Common Name
Quercus bicolor	Swamp White Oak
Quercus macrocarpa	Bur Oak
Liriodendron tulipifera	Tulip Tree
Carpinus	American Hornbeam
Celtis occidentalis	Hackberry
Gleditsia triacanthos	Honey Locust
Acer saccharum	Sugar Maple

INTERMEDIATE TREES – DRY SITES: One 4 ft. – 5 ft. and Three 2 ft. – 3 ft.

Scientific Name	Common Name
Ostraya virginiana	American Hophornbeam
Crataegus spp.	Hawthorn
Cornus florida	Flowering Dogwood
Cercis Canadensis	Redbud
Viburnum prunifolium	Blackhaw Viburnum
Amelanchier laevis	Allegheny Serviceberry
Carpinus caroliniana	American Hornbeam
Rhus typhina	Staghorn sumac

INTERMEDIATE TREES – WET SITES: One 4 ft. – 5 ft. and Three 2 ft. – 3 ft.	
Scientific Name	**Common Name**
Alnus glutinosa	Alder
Betula nigra	River Birch
Mamamelis virginiana	Witch hazel
Crataegus spp.	Hawthorn

SHRUBS – DRY SITES: Five 2 ft. – 3 ft.	
Scientific Name	**Common Name**
Viburnum trilobum	High-Bush Cranberry
Corylus Americana	American Hazelnut
Locinera spp.	Honeysuckle
Rhus glabra	Smooth Sumac

SHRUBS – WET SITES: Five 2 ft. – 3 ft.	
Scientific Name	**Common Name**
Aronia arbutifolia	Red Chokeberry
Cornus sericea	Redtwig Dogwood
Cornus racemosa	Grey Dogwood
Viburnum lentago	Nannyberry

GROUNDCOVER/WILDFLOWERS: Twenty (20) Care shall be taken to select plants which are site specific, i.e. soils and moisture requirements, sun and shade requirements.	
May Apple	Virginia Blue Bells
False Solomon Seal	Hepatica
Solomon Seal	Monarda
Wild Columbine	Woodland Sunflower
Blood Root	Native Iris
Trillium Sp.	Woodland Phlox
Twin Leaf	Wild Ginger (*Asarum caudatum*)
Wild Geranium	Goldenrod
Yellow Trout-Lily	Jack in the Pulpit
Jacobs Ladder	Alum Root
Butter Cup	Rue
Aster spp.	Turtlehead
Penstemon	Golden Alexander
Agastache	Milkweed
Butterfly Weed	Coreopsis
Eupatorium	Gentian
Liatris	Monkey Flower
Prairie Clover	Echinacea
Sneezeweed	Heliopsis
Obedient Plant	Ratibida
Silphium	Verbena
Culver's Root	Rudbeckia
Native Violets	Native Ferns

APPENDIX "C"

TREE CONVERSION CHART

Single stem inches dbh	Multi-stem feet height	Evergreen feet height
	7	
2.5	8 - 8.5	8 - 9
3	8.5 - 9	9 - 10
4	9 - 9.5	10 - 11
5	9.5 - 10	11 - 12
6	10 - 10.5	12 - 13
7	10.5 - 11	13 - 14
8	11 - 11.5	14 - 15
9	11.5 - 12	15 - 16
10	12 - 12.5	16 - 17
11	12.5 - 13	17 - 18
12	13 - 13.5	18 - 19
13	13.5 - 14	19 - 20
14	14 - 14.5	20 - 21
15	14.5 - 15	21 - 22
16	15 - 15.5	22 - 23
17	15.5 - 16	23 - 24
18	16 - 16.5	24 - 25
19	16.5 - 17	25 - 26
20	17 - 17.5	26 - 27
21	17.5 - 18	27 - 28
22	18 - 18.5	28 - 29
23	18.5 - 19	29 - 30
24	19 - 19.5	30 - 31
25	19.5 - 20	31 - 32
26	20 - 20.5	32 - 33
27	20.5 - 21	33 - 34

*The Village shall have the authority to assign equivalent values different from the guidelines above, in the case of species or specimens which are more or less desirable than average.

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