

# **Urban Forestry Commission**

Cravath Lakefront room 2nd floor 312 West Whitewater Str, Whitewater, WI, 53190 \*In Person and Virtual

# Monday, January 27, 2025 - 5:30 PM

Citizens are welcome (and encouraged) to join our webinar via computer, smart phone, or telephone. Citizen participation is welcome during topic discussion periods.

**Topic: Urban Forestry Commission** 

Time: Jan 27, 2025 05:30 PM Central Time (US and Canada)

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Please note that although every effort will be made to provide for virtual participation, unforeseen technical difficulties may prevent this, in which case the meeting may still proceed as long as there is a quorum. Should you wish to make a comment in this situation, you are welcome to call this number: (262) 473-0108.

# **AGENDA**

### **CALL TO ORDER**

### **ROLL CALL**

## **APPROVAL OF AGENDA**

A committee member can choose to remove an item from the agenda or rearrange its order; however, introducing new items to the agenda is not allowed. Any proposed changes require a motion, a second, and approval from the Committee to be implemented. The agenda shall be approved at each meeting even if no changes are being made at that meeting.

#### **CONSENT AGENDA**

Items on the Consent Agenda will be approved together unless any committee member requests that an item be removed for individual consideration.

1. Approval of October 10, 2024 Minutes

#### **HEARING OF CITIZEN COMMENTS**

No formal Committee action will be taken during this meeting although issues raised may become a part of a future agenda. Participants are allotted a three minute speaking period. Specific items listed on the agenda may not be discussed at this time; however, citizens are invited to speak to those specific issues at the time the Committee discusses that particular item.

To make a comment during this period, or during any agenda item: On a computer or handheld device, locate the controls on your computer to raise your hand. You may need to move your mouse to see these controls. On a traditional telephone, dial \*6 to unmute your phone and dial \*9 to raise your hand.

#### TREASURER'S REPORT

- 2. Treasurer's Report
- 3. Discussion and possible action on segregated funds between City and Urban Forestry Commission.

#### STAFF REPORT

#### TREE CITY

- 4. Discussion on how is funding going to be secured on a continual basis for the future?
- 5. Discussion and possible action regarding 2025 Tree Sale
  - A. Amount to spend on trees
  - B. Making sure order contains more of what people are requesting
- 6. Discussion and revision of current Landscaping Guidelines policy.

#### **FUTURE AGENDA ITEMS**

## **NEXT MEETING DATE FEBRUARY 25, 2025**

#### **ADJOURNMENT**

A quorum of the Common Council may be present. This notice is given to inform the public that no formal action will be taken at this meeting.

Anyone requiring special arrangements is asked to call the Office of the City Manager / City Clerk (262-473-0102) at least 72 hours prior to the meeting.



Urban Forestry Commission Meeting Monday, October 10, 2024 – 4:30 PM Cravath Lakefront Room 312 W. Whitewater Street Whitewater, WI 53190 Hybrid Meeting

### **Meeting Minutes**

#### 1. Call to Order and Roll Call

Present: Bill Chandler, Josh Kapfer, Kerry Katovich, Sherry Stanek, Carol McCormick,

**Brienne Brown** 

Absent: Ryan Tevis, Nick Alt

Staff: Brian Neumeister, Kevin Boehm

Guests: None

Meeting called to order at 4:30 by Chandler

### 2. Approval of Agenda

Motioned for approval by Brown. Seconded by McCormick. Ayes: Chandler, Kapfer, Katovich, Stanek, McCormick, Brown. Nays: None

#### 3. Approval of Minutes from March 25, 2024

Motioned for approval by Brown. Seconded by Stanek. Ayes: Chandler, Kapfer, Katovich, Stanek, McCormick. Nays: None

### 4. Hearing of Citizen Comments

No Comments

#### 5. Election of New Treasurer

Motioned by McCormick to appoint Stanek as treasurer. Seconded by Brown. Ayes: Kapfer, Katovich, McCormick, Brown, Chandler. Nays: None.

#### 6. Treasurers Report

- **a. Treasurers report.** No report was given. Stanek will provide a report at the next meeting after reviewing the account information provided to her at this meeting.
- b. Discussion and possible action on segregated funds between City and Urban Forestry Commission. Discussion was had on how the city would like the banking to be done. If it is going to be linked to the City as it currently is, it will have to be subject to annual auditing. It can be overseen by the city, the money cannot be spent without the approval of the commission and would only be spent on items that fall under the

purview of the commission. Trees, Purple Martin, Starin Park Arboretum, etc. It was unanimously decided to table to the next meeting after Stanek has had time to interact with the City Finance Department to gather more information.

# 7. Staff Report

1. Update on spring 2025 Tree Order. Neumeister provided the purchase order to the commission for the trees that were ordered for the city spring tree planting in 2025. Streets and Parks staff have been working on tree removals and pruning throughout the city.

### 8. Considerations/Discussions/Reports

- a. Discussion and recommendations to Finance Committee on the Proposed Framework for Improving Public Participation. Boehm gave a brief overview of the proposals from the Finance Committees recommendations on public participation at council, committee and commission meetings. Discussion was had that this commission has no opinion either way on the recommendations brought forward.
- **b. Discussion regarding small shrubs for landscape guidelines.** Discussion was had on why this list is important, no decision was made.

### 9. Tree City

- a. How is funding going to be secured on a continual basis for the future? Motioned to be tabled until Alt is present by McCormick, Seconded by Chandler. Ayes: Chandler, Kapfer, Stanek, Katovich, McCormick, Brown. Nays: None.
- b. Discussion and possible action regarding amount to spend on 2025 Tree Sale. Motioned to table until Alt is present by Stanek. Seconded by Katovich. Ayes: McCormick, Brown, Stanek, Katovich, Kapfer, Chandler. Nays: None

#### 10. Bird City

**a. Update on Purple Martin House solicitation.** Discussion was held and it was decided to wait until the need increases.

#### 11. Future Agenda Items

**a.** None

#### 12. Adjournment

a. Motioned by McCormick to adjourn at 5:11 PM. Seconded by Brown. Ayes: Chandler, Brown, Kapfer, Katovich, Staneck. Nays: None

Respectfully Submitted,

Kevin Boehm

Kevin Boehm

City of
WHITEWATER

# Urban Forestry Commission Agenda Item

Meeting Date:	January 27, 2025
Agenda Item:	Landscaping Guidelines
Staff Contact (name, email, phone):	Taylor Zeinert tzeinert@whitewater-wi.gov 262-473-0148

### **BACKGROUND**

(Enter the who, what, when, where, why)

Plan and Architectural Review Commission (PARC) has asked that the Urban Forestry Committee to reevaluate the landscaping guidelines for new development. The guidelines are outdated and not clear for developers. Further, when asked at the PARC the urban forestry representative noted that they were unsure if the numbering or scoring scale was still in use.

The PARC has asked that the Urban Forestry Committee review and update the landscaping guidelines.

### PREVIOUS ACTIONS - COMMITTEE RECOMMENDATIONS

(Dates, committees, action taken)

- PARC asked that the Urban Forestry Committee review the landscaping guidelines.

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N/A

# STAFF RECOMMENDATION

Staff recommends that the committee review the guidelines.

### ATTACHMENT(S) INCLUDED

(If none, state N/A)

- 2010 Landscaping Guidelines
- Urban Forestry Updated approved Plants



# **Landscaping Guidelines**

The Plan and Architectural Review Commission reviews site and landscape plans for all new and expanded commercial, industrial, institutional, and multiple family housing projects. Landscaping beautifies the property and city, buffers uses and unattractive structures, increases property values, conserves energy, and helps clean the air and water. The Commission adopted the following guidelines to assist developers, builders, and property owners in meeting the expectations for landscaping. The use of the term "must" below reflects zoning ordinance requirements that are mandatory.

# Required Components of a Landscape Plan

- A scale (e.g., 1 inch = 50 feet), a north arrow, a date, and an accurate representation of site conditions (e.g., property dimensions should be correct with all features drawn to scale).
- All areas to be left in green space and how they will be covered (e.g., grass, mulch, native vegetation).
- All trees over 4" caliper to be removed or portions of woods with such trees that are proposed for removal.
- All existing trees that are over 4 inches caliper or the edges of woods with such trees.
- All existing trees and other plantings proposed to remain on the site after construction, including proposed locations for barrier fencing or other ways to ensure their preservation.
- Locations, species, size at time of planting, and size at maturity for proposed landscape plants.
- Adjacent streets, existing and proposed buildings, parking lots, loading areas, dumpsters, existing
  or proposed grades, outdoor storage areas, and mechanical units and utilities in relation to
  proposed plantings.
- Name, address, and phone number of both the person who prepared the plan and the property owner.

For simple projects, the Landscape Plan may be included on a map that also shows other proposed site improvements, like proposed buildings, signs, lighting, utilities, and grading.

# Treatment of Existing Vegetation

Pre-existing landforms, terrain, and vegetation should be preserved as much as practical. This may be achieved by minimizing building construction and site modifications in areas not essential to project development. High-quality, mature, and native trees and hedges should be retained where practical and should not be removed to facilitate commercial signage. Preservation of existing vegetation will reduce expectations for new landscaping, while major removal of existing vegetation may result in expectations for new landscaping greater than what these guidelines normally suggest. In general, where large, high quality trees are proposed for removal on a landscape plan, the equivalent diameter of new trees should also be included in the plan (e.g., one maple with a 12-inch diameter trunk removed = planting of four 3-inch diameter hardwood canopy trees). Similarly, mature trees identified for preservation in the approved Landscape Plan but subsequently lost should be replaced by new trees of similar total diameter.

Mature trees identified for preservation on a Landscape Plan should be protected during construction by not allowing grading or equipment or vehicle storage in these areas and by making all contractors aware of preservation requirements. During construction, barrier fencing should

generally be placed at the critical root zone (CRZ) of the tree, as defined as a radius equivalent to 1.5 feet for every inch in trunk diameter at breast height (DBH). For example, a tree with a trunk diameter of 12 inches has a critical root zone radius of 18 feet.

The Urban Forestry Management Plan available from the City's Parks, Recreation, and Forestry Department—contains additional preservation guidance (see particularly the City's Terrace Tree Protection guidelines).

# Recommended Locations and Amount of New Landscaping

New landscape plantings should be provided on different parts of the site, as advised below:

- Street Frontages. One deciduous tree must be planted for each 35 feet along each side of a street right-of-way, except where a clustered or wider spacing is allowed by the City Forester or where traffic visibility, street lights, or utilities would be negatively affected. Street trees should be planted midway between the street curb and the sidewalk, or within 15 feet of the property line adjoining the street, but only if space is not available between the sidewalk and curb. Plantings may also be appropriate in any boulevard included in development plans. Street tree species should be approved by the City Forester prior to installation, and should be based generally upon the information provided in Figures 3 and 4 below.
- 2. Paved Areas. One large deciduous tree and 60 points of additional landscaping (see Figure 3: Appropriate Plant Species and Sizes) should be planted for each 1,500 square feet of paved area—which is about the same amount of space required for five parking spaces plus a driveway. Plants should be installed in landscaped islands within the paved area or within 15 feet of the edges of the paved area. Landscaped islands or peninsulas must be provided at the end of every parking row, and interior islands should be provided for every 20 parking spaces in non-industrial projects. Species selection for paved area plantings is particularly important to ensure salt and snow tolerance (see Figure 6), proper growth habit and branch height, avoidance of messy fruit or other litter from the tree, and maintenance of good visibility within parking lots.

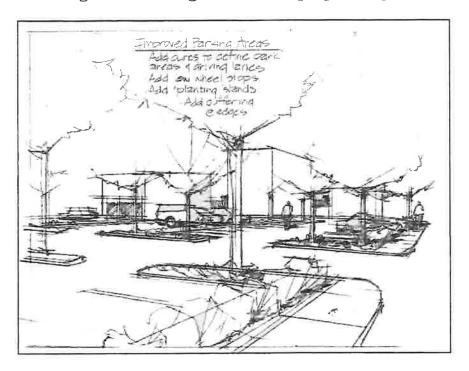


Figure 1: Parking Lot Landscaping Example

- 3. **Building Foundations**. 160 points of landscaping (see Figure 3: Appropriate Plant Species and Sizes) should be planted for each 100 lineal feet of exterior building wall that is visible from public rights-of-way and adjoining sites. The graphic on the following page provides an example of building foundation landscaping. Plants required by this section should be installed within 20 feet of the building foundation and generally should not include large deciduous trees.
- 4. Landscaped Bufferyards. The City requires installation of a landscaped bufferyard:
  - In yards where a B-1, B-3, or M-1 zoning district abuts a residential use or zoning district,
  - Where off-street parking areas for five or more vehicles are within 15 feet of a lot line, except where the next door lot also contains parking within that same distance, and
  - Where lots in a new residential subdivision back onto a proposed major street.

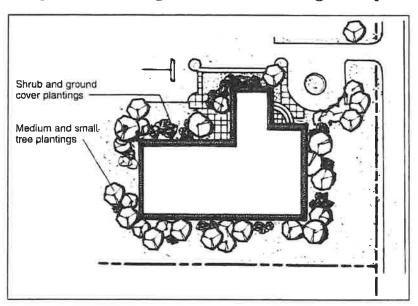


Figure 2: Building Foundation Planting Example

The minimum width of a landscaped bufferyard is 10 feet (30 feet where subdivision lots back onto a major street), not including the area between the sidewalk and street curb. Bufferyards are generally required to be landscaped with two large deciduous trees, five small deciduous and/or evergreen trees, and twelve shrubs for every 100 feet of bufferyard length. The Plan Commission may instead approve substitute landscaping, a berm, an opaque fence or wall, or some combination. Fences or walls should generally not be used in street yards and must not be more than 6 feet tall in residential zoning districts and 10 feet tall in non-residential districts. A berm is mound of soil surfaced with a landscaped ground cover, generally 3 to 6 feet above the surrounding grade and preferably of an undulating or otherwise visually interesting layout.

- 5. General Yard Areas. In other parts of the site, 200 additional points of landscaping (see Suggested Plant Species and Sizes table) should be planted for each 5,000 square feet of total site area. Most general yard area landscaping should be located in street-facing yards. Except for approved natural areas, general yard areas should be seeded. Slopes should be a maximum of 3 vertical feet for every 1 horizontal foot. Where retaining walls are necessary, they should be designed to be less than 10 feet in height and constructed with stone or block, or terraced if the grade change is 10 feet or more.
- 6. Screening. Dumpsters, outside storage areas, loading docks, vending machines, and large or unsightly mechanical, utility, or telecommunication units should be enclosed by a fence, wall, and/or landscaping designed to provide a total visual screen from public rights-of-way and adjacent properties. Screening fences and walls surrounding outdoor storage areas should generally be between 6 and 8 feet tall, while fences and walls designed to screen other areas should generally be between 4 and 6 feet tall. Appropriate screening tree species are indicated in Figure 5. Future trimming of screen plantings in such a way that limits their capacity to provide a total visual screen is not permitted. The base of freestanding signs—monument and pylon signs—should also be landscaped. Low-level plantings should be selected in sign areas.

7. Vision Triangles and Easements. No parts of plantings within 10 feet of the ground level may extend over any public right-of-way. No new landscape plantings with a mature height over 2½ feet or with branches at maturity that will be less than 10 feet may be placed in vision triangles near street intersections (see Section 19.51.010 of zoning ordinance in order to measure extent of vision triangle). Planting in utility easements is at the risk of the property owner and may be subject to restrictions associated with the easement. Tree plantings should generally be at least 20 feet from street lights, 10 feet from hydrants, and 6 feet from gas and water valves.

# Recommended Sizes and Species of New Landscaping

Figure 3 indicates the points that may be obtained for each plant within the five different categories of landscape plantings large deciduous tree, small deciduous tree, evergreen tree, shrub, and perennial planting bed. When added together, the points obtained from each plant depicted in a Landscape Plan may be used to determine whether the landscaping point guidelines above are being met. Figure 3 also provides a starting point for potential plant species selection within each of the five categories of plantings.

Figures 4, 5, and 6 include examples of appropriate tree and shrub species for different, unique applications. These include trees appropriate for placement under power lines (Figure 4), trees that are appropriate for screening (Figure 5), and plantings that are most tolerant of salt for use in and near parking lots for example (Figure 6).

Figure 7 includes species to minimize or avoid, for various reasons including overuse, susceptibility to disease, and invasive characteristics.

For more information in selecting plants, the following guides are available online at the UW-Extension (www.learningstore.uwex.edu): Choosing the Right Landscape Plants: Factors to Consider (A3864); Deicing Salt Injury in the Landscape and Salt-Tolerant Landscape Plants (A3869); Guide to Selecting Landscape Plants for Wisconsin (A2865). Also look for Power Planting: How to Select and Plant Trees Near Power Lines, available at: www.we-energies.com/forestry/treeplant\_booklet.pdf.

Figure 3: Appropriate Plant Species and Sizes

Category of Plant	Expected Mature Height	Minimum Size at Time of Planting	Landscaping Points for Each Plant	Example: Appropriate S	
Large Deciduous Tree	Greater than 25 feet	2 inch trunk diameter as measured 4  1 a feet up (1 a inch for street trees)	150	Freeman maple Paperbark maple State Street Miyabe maple Gingko (male cultivars) Chanticleer pear Honeylocust (male cultivars) Chinkapin oak Baldcypress Lindens/basswood Elms (hybrids) Hackberry Hazelnut	Aver x freemanii Aver griseum Aver griseum Aver miyabei 'Morton' Gingko biloba Pyrus calleryana 'Chanticleer' Gleditsia triacanthos var. inermis Quercus muehlenbergii Taxodium distichum Tilia spp. Ulmus spp. Celtis occidentalis Corylus ssp.
Small Deciduous Tree	25 feet or less	1 2 inch trunk diameter as measured 4 1 2 feet up, or 4 feet tall	60	Birch Serviceberry Hawthorn Eastern redbud Callery pear Flowering crabapples Japanese tree lilac Hornbeam (Musclewood) Ironwood/Hophornbeam	Betula ssp. Amelanchior Crataegus viridis Cercis canadensis Pyrus calleryana Malus spp. Syringa reticulata Carpinus caroliniana Ostrya virginiana
Evergreen Tree	Usually > 10 feet	4 feet tall	40	Serbian spruce Pine (except Austrian)	Pinus ssp. (not
Shrub (deciduous or evergreen)	Usually less than 10 feet	2 feet in height or 2 gallon pot	20	Weigela Shrub rose Juniper Arborvitae Amelanchior Elderberry ninebark Viburnum Dogwood Cotoneaster Forsythia Potentilla Gro-low sumac Yew	Sambucus candensis "aurea"
Perennial Planting	Varies	Varies	20 points for every 20 sq ft of	Coneflower Catmint	Columbine Aster

Category of Plant	Expected Mature Height	Minimum Size at Time of Planting	Landscaping Points for Each Plant	Examp Appropriat	
Bed			bed	Black-eyed Susan	Brunnera
				Lily	Liatris
				Daylily	Cimicifuga
				Hosta	Peony
				Catmint	Pachysandra
				Omamental grass	Sedum
				Lady's mantle	Astilbe

Figure 4: Trees Appropriate for Planting under Power Lines

Category of Plant	Expected Mature Height	Minimum Size at Time of Planting	Landscaping Points for Each Plant	Examples of Appi	ropriate Species
Small	25 feet or	1½ inch trunk		Flowering crabapple	Malus spp.
Deciduous Tree	less	diameter or 4 feet tall	60	Japanese tree lilac	Syringa reticulata

Figure 5: Trees Appropriate for Screening

Category of Plant	Expected Mature Height	Minimum Size at Time of Planting	Landscaping Points for Each Plant		opriate Species for ening
				Firs	abies spp.
			Eastern red cedar	Juniperus virginiana	
			Spruces	Picea spp.	
Evergreen	Evergreen Usually	4.6 11	1 40	Pines	Pinus spp.
Tree	> 10 feet	4 feet tall		Douglas fir	Pseudotsuga menziesu var. glauca
				Arborvitae	Thuja ovcidentalis
				Eastern hemlock	Tsuga vanadensis

Figure 6: Salt Tolerant Plants

Category of Plant	Expected Mature Height	Minimum Size at Time of Planting	Landscaping Points for Each Plant	Examples of Appropriate Species for Salt Sensitivity
Large Deciduous Tree	Greater than 25 feet	2 inch trunk diameter (1½ inch for street	150	maple sweet gum
Small Deciduous Tree	25 feet or less	trees)  1½ inch diameter or 4 feet tall	60	crabapple crape myrtle dogwood
Evergreen	Usually	4 feet tall	40	American holly

Category of Plant	Expected Mature Height	Minimum Size at Time of Planting	Landscaping Points for Each Plant	Examples of Appropriate Species for Salt Sensitivity
Tree	> 10 feet			yew
Shrub (deciduous or evergreen)	Usually less than 10 feet	2 feet in height or 2 gallon pot	20	azalea barberry boxwood forsythia rhodedendron spirea

Figure 7: Plant Species to Use Sparingly or Avoid

	-	_		
Category of Plant	Species to Use Sparingly	Species To Avoid	Reason to Avoid	Good Alternative
	Maple	Any ash (fraxinus)	Emerald ash borer	
	Basswood/linden	Non-resistant elms	Dutch elm disease	Resistant elms
	Honeylocust	Boxelder	Spread quickly	
		Maples (Freeman/Autumn Blaze)	Over planted	
Large Deciduous		Maples, Norway	Over- planted, dense	
Tree		Maples, red	Prefer acidic soil	
		Maples, sugar	Thrives only in certain conditions; picky	
		Bradford pears	Poorly branched, tend to break	Chanticleer pear
		White mulberry	Invasive, non-native	
Small Deciduous		Buckthorns	Invasive, non-native	
Tree		Autumn-olive	Invasive, non-native	
Evergreen Tree	Blue spruce White pine White spruce	Austrian pine	Over-planted	

Category of Plant	Species to Use Sparingly	Species To Avoid	Reason to Avoid	Good Alternative
		Spirea japonica	Invasive (re- seed)	Ninebark 'nanus'
Shrub		Prunus x cistena (purple sandcherry)	Short-lived	Purple ninebarks
(deciduous or		Burning bush (euonymus)	Invasive, non-native	
evergreen)		Honeysuckle	Invasive, non-native	
		Multiflora rose	Invasive, non-native	

# Descriptions and Standards for Rain Gardens and Bioswales

Rain gardens and bioswales can serve both as landscaping and stormwater management features on a building site, where appropriately designed and sited.

A rain garden is a shallow, depressed garden that is designed and positioned on a site to capture stormwater runoff and allow for the infiltration of water back into the ground. Rain garden plants are carefully chosen for their ability to withstand moisture extremes and potentially high concentrations of nutrients and sediments that are often found in stormwater runoff. A well designed and maintained rain garden serves as an attractive component of an overall landscaping plan for a development site.

A bioswale is a linear, vegetative stormwater runoff conveyance system that is designed to store and infiltrate water from small storm events back into the ground and direct water from heavy rain events to appropriate storm sewer inlets or other management facilities. The flow of water being conveyed through a bioswale is slowed down, allowing for municipal storm systems to more effectively manage heavier rain events and help reduce the risk of flooding on or off-site. Water being infiltrated or conveyed via a bioswale is also filtered by the vegetation within it, generally improving both ground and surface water quality.

The installation of a rain garden or bioswale may contribute to the overall stormwater management plan for a development site and count toward meeting the City's landscaping guidelines in the same manner as that presented for "perennial planting bed" in Figure 3 above (20 points for every 20 sq. ft.), provided that:

1. Detailed plans are provided that show all proposed dimensions of the rain garden including length, width, depth, and slope of depression; location of the rain garden on the lot relative to hard-surfaced areas, downspouts, and site topography; characteristics of the soil underlying the rain garden or bioswale; description of planting media; the species, number, and size at time of installation of all vegetation proposed for the rain garden or bioswale; and information on any other materials (e.g., rocks) that will be used to line the raingarden or bioswale.

- 2. Installation is not proposed for areas where there is known soil contamination unless the rain garden is proposed to be constructed with an under-drain; where the characteristics of the soil would not allow for the proper infiltration of water into the ground; or where there are expected high levels of foot traffic.
- 3. The owner can demonstrate that the rain garden or bioswale will be properly maintained; kept free of trash, weeds debris, and dead or dying plants; any pipes associated with the garden will be inspected on an annual basis and kept free of debris; and by the beginning of every spring dead plant materials will be cut back or removed.
- 4. Bioswales and rain gardens must be generously (and appropriately) vegetated to qualify for landscaping points. Bioswales and rain gardens (or portions thereof) that are lined with turf and/or rocks but do not include other vegetation will not qualify for landscaping points.
- 5. To serve as a component of an overall stormwater management plan for a site, detailed plans, calculations, and specifications meeting the City's stormwater management ordinance are provided. Detailed plans should include the location and description of all other stormwater management facilities serving the site, particularly those to which any bioswale will be directed.

For further information on rain garden and bioswale design, see Rain Gardens: A How-To Manual for Homeowners, which is available from County UW-Extension offices, Cooperative Extension Publications, DNR Service Centers, and online at

http://clean-water.uwex.edu/pubs/pdf/home.rgmanual.pdf and Design Guidelines for Stormwater Bioretention Facilities, which is available from the Communications Office of the State of Wisconsin Aquatic Sciences Center and online at

http://aqua.wisc.edu/publications/PDFs/stormwaterbioretention.pdf\.

# General Installation and Maintenance for Landscaping and Bufferyards

Landscaping must be installed using landscape contracting industry standards available from landscape designers and nurseries. These include proper soil conditioning, removing any packing materials including wire cages, burlap, and string, and the placement of the root collar at or slightly above grade. A 6-foot bark mulch radius around a tree is ideal, with the mulch no thicker than 4 inches in general and tapered to a depth of 1 inch at the base of the tree (the classic saucer shape). Rock mulch is discouraged around all planting areas. Figure 8 suggests proper planting and maintenance techniques for deciduous trees; techniques for evergreen trees and shrubs vary slightly, but the basic principles are similar.

All landscaping must be installed prior to building occupancy or operations, unless doing so would result in unsatisfactory plant survival. In this case, the City requires a site improvement deposit until landscaping is installed according to plan.

All required landscaping should be continually maintained in a live state to meet its original function (e.g., screen plants not overly pruned). Maintenance must include replacement of dead or dying plants, regardless of when the plant dies. Replacement should occur within the same year in which a plant dies or the next spring.

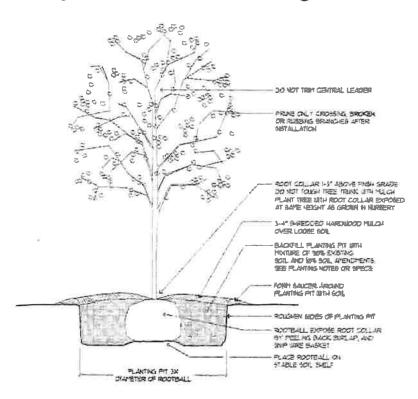


Figure 8: Deciduous Tree Planting Standard

City of Whitewater Approved Tree List STREET TREE										
							COMMON NAME	BOTANICAL NAME	HEIGHT	WIDTH
							Aspen			
Quaking	Populus tremuloides	40-50	20-30							
Buckeye										
Yellow	Aesculus Flava	60-75	30-50							
Coffeetree										
Espreso Kentucky	Gymnocladus dioicus 'Espresso'	50	35							
Kentucky	Gymnocladus dioicus	50-60	50-60							
Cypress										
Bald Cypress	Taxodium distichum	50-70	20-30							
Shawnee Brave Bald Cypress	Taxodium distichum 'Mickelson'	50	15-20							
Elm										
Princeton	Ulmus americana 'Princeton'	60-80	40-60							
Valley Forge	Ulmus americana 'Valley Forge'	80	60							
Ginko										
Autumn Gold	Ginko biloba 'Autumn Gold'	40-50	25-30							
Magyar	Ginko biloba 'Magyar'	40-50	20-25							
Princeton Sentry	Ginko biloba 'Princeton Sentry'	40-50	15-20							
Gum										
Black	Nyssa sylvatica	30-50	20-30							
Hackberry	Celtis Occidentalis	40-60	40-60							
Linden										
Boulevard American	Tilia americana 'Boulevard'	60	25							
Sweet Street	Tilia americana 'Kromm'	50	25							
Honey Locust	Gleditsia triacanthos	40-50	30-40							
Maple										
Celebration	Acer x freemanii 'Celzam'	40-50	20-35							
Sienna Glen	Acer x freemanii 'Sienna'	40-50	35-40							
Sugar	Acer saccharum	50-75	50							
Oak										
Burr	Quercus macrocarpa	70-80	75-90							
Chinkapin	Quercus muehlengergii	50-60	50-60							
Hybrid Swamp x Burr	Quercus x schuettei	75	70							
Red	Quercus rubra	60-75	60-75							
Planetree										
Exclamation London	Platanus x acerifolia 'Morton Circle'	60	45							

City of Whitewater Approved Tree List			
COMMON NAME	BOTANICAL NAME	HEIGHT	WIDTH
Aspen			
Quaking	Populus tremuloides	40-50	20-30
Basswood			
American	Tilia americana	75-130	23-35
Beech			
American	Fagus grandifolia	60-75	55-65
Birch			
Paper	Betula papyrifera	50	35
River	Betula nigra	40-70	40-60
Yellow	Betula alleghaniensis	40-60	40-50
Buckeye			
Yellow	Aesculus Flava	60-75	30-50
Butternut	Juglans cinerea	40-60	40-60
Coffeetree			
Kentucky	Gymnocladus dioicus	50-60	50-60
Cypress			
Bald Cypress	Taxodium distichum	50-70	20-30
Shawnee Brave Blad Cypress	Taxodium distichum 'Mickelson'	50	15-20
Elm			
Princeton	Ulmus americana 'Princeton'	60-80	40-60
Valley Forge	Ulmus americana 'Valley Forge'	80	60
Ginko	, ,		
Autumn Gold	Ginko biloba 'Autumn Gold'	40-50	25-30
Magyar	Ginko biloba 'Magyar'	40-50	20-25
Princeton Sentry	Ginko biloba 'Princeton Sentry'	40-50	15-20
Gum			
Black	Nyssa sylvatica	30-50	20-30
Moraine Sweet	Liquidambar styraciflua 'Moraine'	40-45	25-30
Hackberry	Celtis Occidentalis	40-60	40-60
Hickory		1,000	10 00
Shagbark	Carya ovata	80	40
Katsura	Cercidiphyllum japonicum	40-60	20-35
Linden	Japonioum	1000	20 33
American Sentry	Tilia americana 'McKSentry'	50-60	20-25
Honey Locust	Gleditsia triacanthos	40-50	30-40
Maple	diedrisia criadarierios	10 30	30 40
Red	Acer rubrum	40-60	40-60
Sienna Glen	Acer x freemanii 'Sienna'	40-50	35-40
Sugar	Acer saccharum	50-75	50
Magnolia Magnolia	, teer succitarum	30-73	30
Cucumbertree	Magnolia acuminata	50-80	35-60
Oak	in agnotic deciminata	30-80	33-00

Black	Quercus Velutina	50-60	50-60
Burr	Quercus macrocarpa	70-80	75-90
Chinkapin	Quercus muehlengergii	50-60	50-60
Hybrid Swamp x Burr	Quercus x schuettei	75	70
Red	Quercus rubra	60-75	60-75
Planetree			
Exclamation London	Platanus x acerifolia 'Morton Circle'	60	45
Redwood			
Dawn	Metasequoia glyptostroboides	75-100	15-25
Sycamore			
American	Platanus occidentalis	70-90	80
Tuliptree	Liriodendron tulipifera	70-80	35-45
Yellowwood	Cladrastic kentukea	30-50	40-50

#### City of Whitewater **Approved Tree List MEDIUM-SMALL STREET TREES COMMON NAME BOTANICAL NAME HEIGHT** WIDTH Buckeye Early Glow Aesculus glabra 'J.N. Select' 35 35 Mystic Ruby Aesculus x bushii 'Aaron#1' 30-35 15-20 Cockspur Hawthorn, Thornless Crataegus Crus-galli var. inermis 20-30 25-35 Crabapple Crab **Prairie** Malus ioensis 15-20 15-20 Elm New Horizon Ulmus 'New Horizon' 30-40 15-25 Ironwood Ostrya virginiana 25 15 Lilac Ivory Silk Japanese Syringa reticulata subsp. Reticulata 25 15 Maple Paper Barked Acer griseum 20-30 20-30 State Street Miyabe's Acer miyabei 'Morton' 50 40 Magnolia **Royal Star** Magnolia stellata 'Royal Star' 10-15 10-15 Musclewood Carpinus caroliniana 25-30 25-30 Red Bud, Eastern Cercis canadensis 20-30 25-35 Serviceberry Allegheny Amelanchier laevis 25 15 Apple Amelanchier x grandiflora 25-30 25-30 Autumn Brilliance Amelanchier x grandiflora 'Autumn Brilliance' 20-25 20-25

City of Whitewater Approved Tree List			
COMMON NAME	BOTANICAL NAME	HEIGHT	WIDTH
Buckeye			
Early Glow	Aesculus glabra 'J.N. Select'	35	35
Mystic Ruby	Aesculus x bushii 'Aaron#1'	30-35	15-20
Crabapple			
Crab	?		
Prairie	Malus ioensis	15-20	15-20
Dogwood			
Golden Glory	Cornus mas 'Golden Glory'	15-25	15-25
Pagoda	Cornus alternifolia	15-25	15-25
Elm			
New Horizon	Ulmus 'New Horizon'	30-40	15-25
Ironwood	Ostrya virginiana	25	15
Lilac			
Ivory Silk Japanese	Syringa reticulata subsp. reticulata	25	15
Maple			
Paper Barked	Acer griseum	20-30	20-30
Striped	Acer pensylvanicum	20	15
Magnolia			
Royal Star	Magnolia stellata 'Royal Star'	10-15	10-15
Musclewood	Carpinus caroliniana	25-30	25-30
Red Bud, Eastern	Cercis canadensis	20-30	25-35
Serviceberry			
Allegheny	Amelanchier laevis	25	15
Apple	Amelanchier x grandiflora	25-30	25-30
Autumn Brilliance	Amelanchier x grandiflora 'Autumn Brilliance'	20-25	20-25
Seven Son Flower	Heptacodium miconioides	15-20	8-15

# **Landscape Plants - Native - Herbacious**

Pasture Rose

Common	Latin	Height	Bloom Color
Lavender Hyssop	Agastache foeniculum	2-4'	Purple
Nodding Onion	Allium cernuum	18"	Pink
Sullivant's Milkweed (Prairie)	Asclepias sullivantii	3-5'	Pink
Butterfly Milkweed	Asclepias tuberosa	2'	Orange
	Aster novae-angliae	5'	Purple: Pink
New England Aster Canada Milk Vetch	Astragalus canadensis	1-3'	cream
	•	4'	White
White Wild Indigo	Baptisia alba	3-5'	Blue
Blue Wild Indigo	Baptisia australis	3-3 1-2'	Cream
Cream False Indigo	Baptisia bracteata		Yellow
Yellow Wild Indigo	Baptisia tinctoria	2-3'	
Downy Wood Mint	Blephilia cilata	1-2'	Plurgle
Pale Purple Coneflower	Echinacea pallida	3-5'	Purple
Purple Coneflower	Echinacea purpurea	3-4'	Purple
Rattlesnake Master	Eryngium yuccifolium	4'	White/green
Early Sunflower	Helianthus helianthoides	3-5'	Yellow
Prairie Alumroot	Heuchera richardsonii	2'	Green
Round Headed Bush Clover	Lespedeza capitata	4'	White
Rough Blazing Star	Liatris aspera	2-5'	Purple
Michigan Lilly	Lilium michiganense		Orange
Wild Bergamot	Monarda fistulosa	2-4'	Lavender
Eastern Prickly Pear Cactus	Optuntia humifosa	6"	Yellow
Wild Quinine	Parthenium integrifolium	4'	White
Smooth Penstemon	Penstemon digitalis	1-3'	White
Large Flowered-Penstemon	Penstemon grandiflorus	1-3'	Lavender
Compass Plant	Silphium laciniatum	8'	Yellow
Rosin Weed	Silphium integrifolium	4-6'	Yellow
Spiderwort	Tradescantia ohiensis	2-4'	Blue
Hoary Vervain	Verbena stricta	2-4'	Blue
Native - Grasses/Sed	lges		
	_		
River Oats/Northern Sea Oats	Chasmanthium latifolium	3-4'	Grass
Little Blue Stem	Schizachyrium scoparium	2-3'	Grass
Prairie Dropseed	Sporobolus heterolepis	2-3'	Grass
Side Oats Gramma	Bouteloua curtipendula	1-3'	Grass
Native - Small Shrub	s		
White Snowberry	Symphoricarpos albus	3-5'	White
Black Chokeberry	Aronia melanocarpa	3-6'	White
Juneberry	Amelanchier alnifolia	4-15'	White
Running Serviceberry	Amelanchier stolonifera	3-5'	White
Northern Bush Honeysuckle	Diervilla lonicera	1-3'	Yellow
Desture Dess	Pose carolina	2'	Pink

Rosa carolina

2'

Pink

Item 6.

New Jersey Tea	Ceanothus americanus	3'	White
Shrubby St. Johns Wort	Hypericum prolificum	4'	Yellow
Sweet Fern	Comptonia peregrina	2-5'	
Lead Plant	Amorpha canescens	3'	Flurple
Shrubby Cinquefoil (Potentilla)	Dasphora fruticosa	2-4'	Yellow

Soil

Moisture

Mesic-DM WM-DM Mesic-WM Mesic-Dry Wet-DM WM-DM WM-Dry WM-Mesic Mesic-Dry

Mesic-Dry Mesic-Dry WM-DM WM-DM WM-DM Mesic-Dry Mesic-Dry Mesic-Dry

WM-Dry Dry WM-DM Mesic-DM DM-Dry WM-Dry WM-Dry WM-Dry

DM-Dry

Sand

Mesic-WM

Mesic-Dry Replace Karl Forester Grass

Mesic-Dry Mesic-Dry

heavy clay soils

rocky to sandy soils

Sand, clay & garden

Poorly drained- well drained Moist - Dry Good fruit production

Alkaline Alkaline

Moist, Well Drained

Acidic (sandy, loamy, clay, and rwell drained, dry to medium moisture

average m Aggressive if just planted in mulch

sandy soils, rocky hillsides

Wide Range

Sand (no clay)

Sand, gravel, loam or clay

pH 6.8-7.2

Mesic -Dry

Moist but tolerates Dry

Dry

Mesic -Dry

WM-Mesic, well drained, moderately fertile