

## Addendum to GSI Landscape Design Guidebook

July 2024

This is an addendum to the GSI Landscape Design Guidebook version 4.0, published in April 2020. The addendum was created to rectify three (3) topics which have changed slightly over the past two years. These three topics are concentrated in Chapter 3 of the Guidebook and include:

**Low Count Species** – Designations of "Use Sparingly" were removed in favor of a new priority designation called "Low Count Species". The Green Stormwater & Stream Design Unit (GSSD) is shifting the focus of tree species selection to encourage the use of species with low representation in the GSI Tree Inventory.

**Species Name/Spelling Correction** – Species names and spellings were revised to align with PWD database naming conventions, allowing for efficient transfer of information from finalized plans to internal data systems.

Align GSSD Street Tree Designations with PPR (Philadelphia Parks & Recreation) Designations – Tree species labeled "Landscape Only" in the GSI Landscape Design Guidebook are to only be used in offstreet parcels. In this addendum, "Landscape Only" designations were removed for species which are present on the PPR Citywide Street Tree Designation list as on-street appropriate species.

The addendum can be found on the following pages.

## **Tree Selection Criteria**

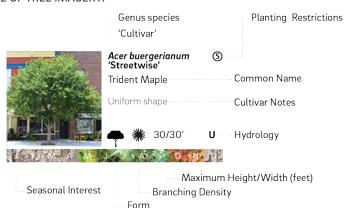
Tree selection criteria is primarily based on site conditions and issues most relevant to SMPs. A tree's maximum height and width should be used to determine its appropriateness in a given space.

To increase resiliency against tree pests and diseases, PWD strives to select a diversity of tree species within a project area. However, to achieve visual continuity, block-by-block the designer may plant in groups of 2-4 trees by species or alternate species of similar growth habits such as size, shape, and branching density. Cornell University has an online guide on how to group species for visual similarity. 1 Consideration of textures and colors of foliage and blooms by month may also improve aesthetics at a site.

Planting restrictions for specific species should be followed as described herein. When listed on a design plan, fall dig hazard trees must include substitutes should project planting occur in the fall. Landscape-only trees may be used for rain gardens and other off-street projects, but not in the right-of-way where sight lines must be preserved. Acer and Prunus trees should be planted sparingly, since they have historically been over planted both within PWD systems and throughout the City. Consideration should also be given to system type and where the tree is being planted within the system (e.g. within the entrance, lower, or upper zones or as a street tree in a tree trench).

Below is an annotated example of tree imagery that can be found on the following pages for each of PWD's recommended trees.

## **EXAMPLE OF TREE IMAGERY:**



### SELECTION CRITERIA

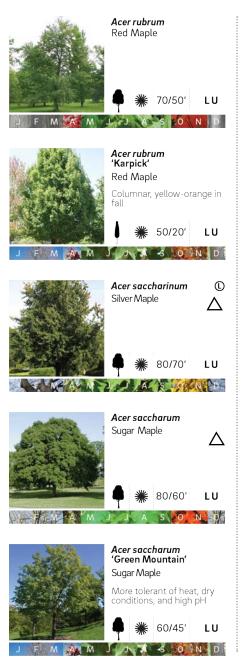
1	Classification	Uses
Canopy	Maximum Height > 30 Feet	Where Space Is Available For Growth, Landscapes
Understory	Maximum Height < 30 Feet	Where Growth Is Limited (E.g. Under Wires), Landscapes
2	Form	Uses
<b>~</b>	Spreading: Width >/= Height	Wider Sidewalks, Landscapes
•	Upright: Width < Height	Narrow Sidewalks, Landscapes
	Columnar: Width Much < Height	Narrowest Spaces
3	Branching Density	Uses
*	Dense: Greater Than 50% Opaque	Select Similar Density For Visual Similarity On Streets
*	Open: Less Than 50% Opaque	Streets
4	Size	Uses
N/N'	Maximum Height/Width (Feet)	Height/Width Selected Should Consider Topography In Order To Preserve Sight Lines
5	Hydrology	Uses
U	Upper	Tree Pits, Upper Slopes Of Rain Gardens
L	Lower	Bumpouts, Planters, Swales, Bottom Of Rain Gardens
6	Seasonal Interest	Uses
	See Seasonal Pictures.	Select Color/Textures Of Foliage And Blooms
		To Increase Interest

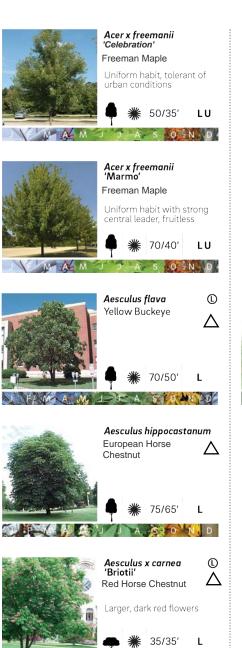
### PLANTING RESTRICTIONS

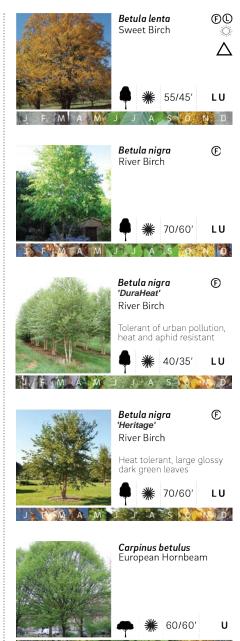
1		
Ē	Fall dig hazard	Requires a substitute if planted in fall
2		
©	Landscape only	Do not use in the right-of-way
3		
Δ	Low Count Tree Species	Utilize species when possible
4		
Þ	Prefers partial shade	Avoid planting in direct sun
<u></u>	Prefers full sun	Avoid planting in shade

<sup>1 &</sup>quot;Visual Similarity and Biological Diversity: Street Tree Selection and Design" by Nina Bassuk, Peter Trowbridge, and Carol Grohs. <a href="http://www.hort.cornell.edu/uhi/outreach/pdfs/visually\_compatible\_trees.pdf">http://www.hort.cornell.edu/uhi/outreach/pdfs/visually\_compatible\_trees.pdf</a>

## CANOPY TREES

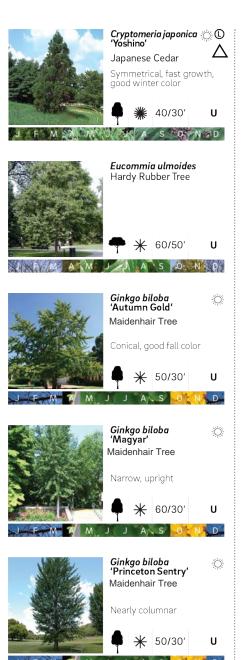








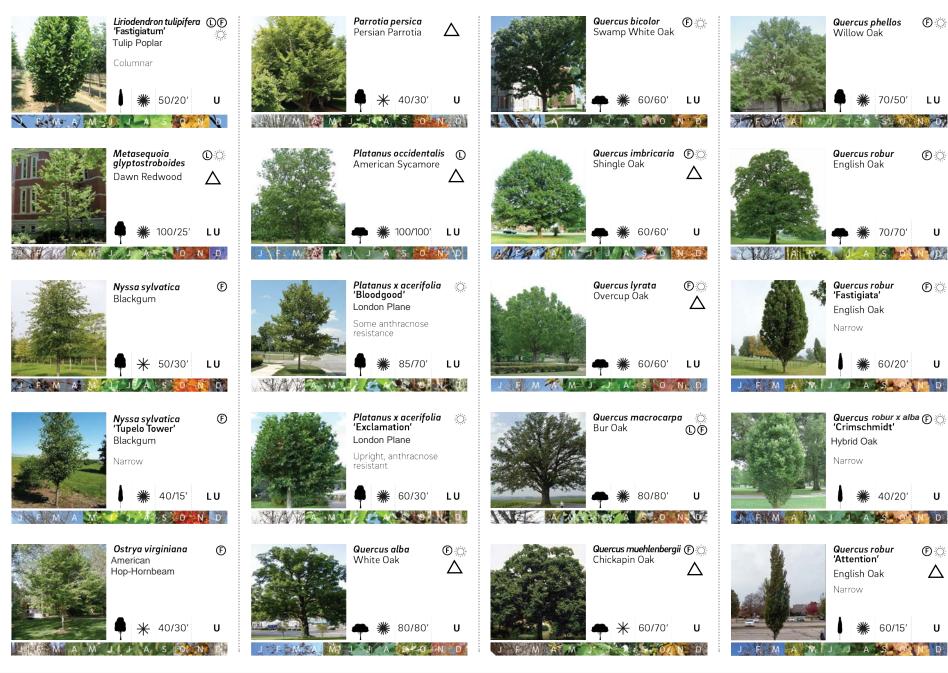


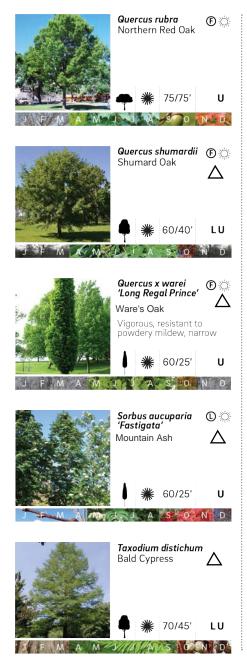




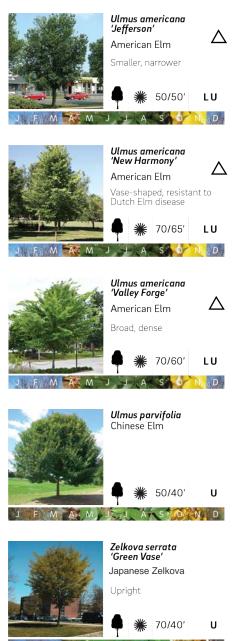


## CANOPY TREES







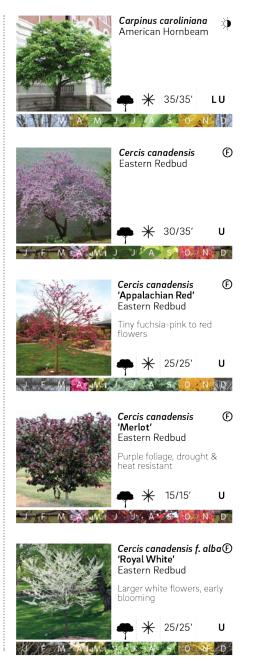


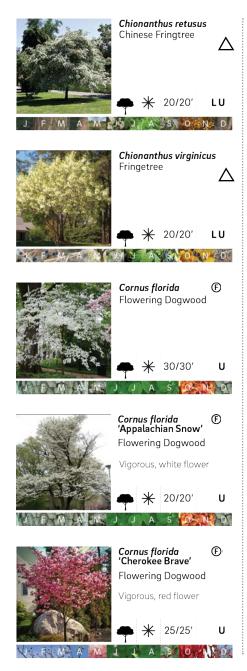


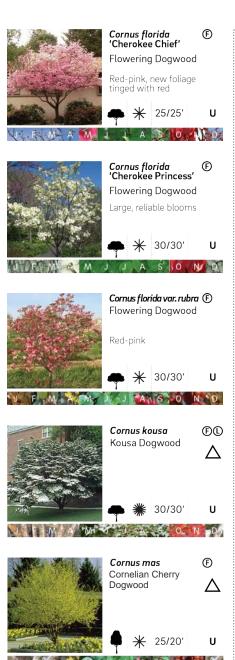




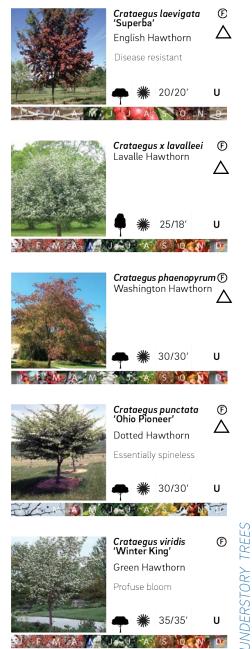






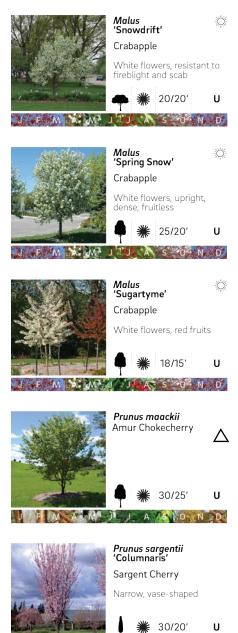














# UNDERSTORY TREES



