

October 26, 2022

Town of Stratham 10 Bunker Hill Ave Stratham, NH 03885

Dear Officials.

This letter is part of a proactive effort to reach out to town and state officials within Unitil service territory about planting the right tree in the right place. Enclosed is a suggested list of small trees and shrubs recommended for planting under power lines. Most of the recommended plants do not exceed 20' in height at maturity and the ones that do exceed 20' can be managed with infrequent pruning.

We hope that commercial and residential customers will consider where power lines are located on properties and plan landscaping designs accordingly. It is not uncommon to find trees that grow to excessive heights at maturity planted directly under power lines following construction. While they are not immediate hazards at the time of planting, these trees eventually become perpetual maintenance issues, potential safety concerns, and occasionally issues of public relations.

Our hope is to increase awareness of the problem and to plan ahead. By planting the right tree in the right place we can avoid future tree conflicts with wires and allow for the unimpeded growth, health, and beauty of a tree that is appropriate for the site.

More information about our Forestry Department can be found at https://unitil.com/safety-preparedness/tree-pruning.

Sincerely,

Christopher Moultroup

Manager- Forestry Operations



Recommended Small Trees/Shrubs for Planting Under Overhead Utility Lines Selections Recommended for USDA Planting Zones 5 or Below

Suitable to be planted under Utility lines (generally do not exceed 20' in mature height or may need infrequent crown reduction)
*for more information, please visit the Morton Arboretum and/or Arbor Day Foundation websites

Scientific Name Mature Mature Zone Height Spread Comments Native Shade Tolerance Tolerance

ad flowers in late spring, ink-blue fruits in is useful in groupings and masses, or as filler in Native Shade Tolerance for the shrub border, in mass, or near full sun, partial and shady blooming flowers are typically purple to be range of flower colors vary by cultivar. Plants sun/shade in	Tolorant	sun/shade	Native St	The same in the second of the		
Native full Native	Tolerant	ull sun, partial	to a	3 10-15' 3-4'	Green'	Emerald Arborvitae
Native su suive	-			4 6-12' 6-8' screening.	Heldreichii	Bosnian Pine
Native sum native structure sum native sum n		ull sun, partial		This broadleaf Evergreen bears attractive pink to deep rose flowers beginning in May or June. This shrub is considered both an evergreen shrub if the position of spring flowers. This broadleaf Evergreen bears attractive pink to deep rose flowers beginning in May or June. This shrub is considered both an evergreen shrub in a profusion of spring flowers.	Kalmia latifolia Pinus leucodermis	Mountain Laurel
The native shrub makes a great screen, informal headge, and is useful in groupings and masses, or as filler in Parall. and contrasts nicely with the red fruit. An excellent choice for the shrub border, in mass, or near red illac best known for its fragrant flowers. It is extremely hardy and thrives with little care which make it a ni masses screens, hedges, or make it a ni masses screens, hedges, or make it and in masses screens, hedges, or make it an in masse or make it and in make it an individual in a shellered local in some in make it and individual in a shellered local in some in make it an entire was open. Native in the leaves with a different in the leaves open. Native in th		full sun, partial		varies by The Merserve hollies are hybrids that do well in northern climates. Dark, lustrous blue-green leaves are evergreen and spiny. Like all hollies, there 5 6-10' cultivar are separate male and female plants and both must be planted for the female plant to produce the showy fruit.	llex x meserveae	Meserve Holly
luide white, Tial-topped flowers in late spring, Ink-blue fruits in informal hedge, and is useful in groupings and masses, or as filler in persistent, 173-inch red fruits attractive birds and other wildlife. The first stremely hardy and thrives with little care which make it an shrub borders. The May blooming flowers are typically purple to prolific blooms. A wide range of flower colors vary by cultivar. Plants of the flowers lites, it has white blooms in early spring followed by oval green color is orange-red. Native lies them in great abundance. Good fall color. Lees them in great abundance apatio, an entryway, or in a shrub border. O appear in fall, but are often hidden by the leaves. Common aturally grows along woodland edges. The large, rounded, dark green after flowering, splitting open to expel seeds that are attractive to naturalized landscape. Iffin many variations. Many cultivars are available with different fin many variations. Many cultivars are available with different with cinnamon-colored, exfoliating bark that is accentuated by the foliage in June and thorace in fall. Fall color is not consistent from year to year. Stated, white flowers that appear above the foliage in June and shelter it wative. The transport of the foliage in June and shelter it wative. The transport of the stream of the process of redbuds before their leaves open. Wative she to proceed the foliage in June and shelter it wative. The transport of the foliage in June and shelter it wative. The transport of the foliage in June and shelter it wative. The transport of the foliage in June and shelter it wative. The transport of the foliage in June and shelter it wative. The transport of the foliage in June and shelter it wative. The transport of the foliage in June and shelter it wative.		partial sun/shade,		4 6-10' for shade gardens or in a sheltered site.	Rhododendron catawbiense	Catawba Rhododendron
Native to persistent. TIS-Inch red fruits attractive birds and other wildlife. The persistent TIS-Inch red fruits attractive birds and other wildlife. The fruit. An excellent choice for the shrub border, in mass, or near a shrub borders. The May blooming flowers are typically purple to orollific blooms. A wide range of flower colors vary by cultivar. Plants often found growing in swampy, wet sites in eastern North America. The May bloomis in early spring followed by oval green or for states in the samilable with different to a mixed perennial garden. Papertad with cinnamon-colored, excilitaris are available with different the flowers in fall. Fall color is not consistent from year to year. It alled, white flowers that appear above the foliage in June and versilining the dark branches of redbuds before their leaves open. In the persistent, TIS-Inch red fruit that persist into the versilining the dark branches of redbuds before their leaves open. In the persist into the persist into the versilining the dark branches of redbuds before their leaves open. In the typical white flowers, followed by red fruit that persist into that ive is the typical white flowers, followed by red fruit that persist into that ive is the typical white flowers, followed by red fruit that persist into the varies of the foliage in June and the typical white flowers, followed by red fruit that persist into thative is the typical white flowers, followed by red fruit that persist into that we should be the foliage in June and the typical white flowers, followed by red fruit that persist into the varies of the foliage in June and the typical white flowers, followed by red fruit that persist into the varies of the typical white flowers, followed by red fruit that persist into the varies of the typical white flowers.	Intolerant	full sun, partial sun/shade		2 6-8' 4-5' This popular garden confier is native to Canada and the northwestern United States. Good for small spaces.	Picea glauca 'Conica	Dwarf Alberta Spruce
Native Informal hedge, and is useful in groupings and masses, or as filler in persistent, 1/3-inch red fruits attractive birds and other wildlife. The druit. An excellent choice for the shrub border, in mass, or near vers. It is extremely hardy and thrives with little care which make it a n shrub borders. The May blooming flowers are typically purple to prolific blooms. A wide range of flower colors vary by cultivar. Plants of west sites. It has white blooms in early spring followed by oval green color is orange-red. Native in great abundance. Good fall color. Learly spring before the leaves unfurl, the flowers are clusters of white red location such as near a patio, an entryway, or in a shrub border. Learly spring before the leaves unfurl, the flowers are attractive to opener in fall, but are often hidden by the leaves. Common after flowering, splitting open to expel seeds that are attractive to naturally grows along woodland edges. The large, rounded, dark green after flowering, splitting open to expel seeds that are attractive to naturally grows along woodland edges. The large rounded, dark green after flowering, splitting open to expel seeds that are attractive to naturally grows along woodland edges. The large rounded, dark green after flowering, splitting open to expel seeds that are attractive to naturally grows along woodland edges. The large rounded, dark green after flowering, splitting open to expel seeds that are attractive to naturally grows along woodland edges. The large rounded, dark green after flowering, splitting open to expel seeds that are attractive to naturally grows along woodland edges. The large rounded, dark green after flowering, splitting open to expel seeds that are attractive to naturally grows along woodland edges. The large rounded, dark green after diverning the flowering splitting open to expel seeds that are attractive to naturally grows along woodland edges. The large rounded, the splitting open to expel seeds that are attractive to naturally grows along woodland edges.	Tolerant	full sun, partial shade/shade, full shade	S S =	Broadly rounded evergreen shrub or small tree. Native to Europe, Asia and Afronder Sand 1997. 5 3-4' 3-4' ornamental evergreen used as hedges, borders and topiary.	Buxus sempervirens	Common Boxwood
informal hedge, and is useful in groupings and masses, or as filler in persistent, 1/3-inch red fruits attractive birds and other wildlife. The druit. An excellent choice for the shrub border, in mass, or near vers. It is extremely hardy and thrives with little care which make it an shrub borders. The May blooming flowers are typically purple to prolific blooms. A wide range of flower colors vary by cultivar. Plants soften found growing in swampy, wet sites in eastern North Amenca. Soften found growing in swampy, wet sites in eastern North Amenca. It has white blooms in early spring followed by oval green color is orange-red. Loces them in great abundance. Good fall color. Loces them in great abundance. Good fall color. Loces them in great abundance a patio, an entryway, or in a shrub border, to appear in fall, but are often hidden by the leaves. Common aturally grows along woodland edges. The large, rounded, dark green after flowering, splitting open to expel seeds that are attractive to maturalized landscape. Ith mamy variations Many cultivars are available with different area or for adding structure to a mixed perennial garden. Paperted with cinnamon-colored, exfoliating bark that is accentuated by no bronze in fall. Fall color is not consistent from year to year. Loces them in great abroches of rebuds before their leaves open. Wative striped and shelter it was the typical white flowers followed by red fruit that persist into Native striped.	ii Coici ai i		L			Evergreen Trees/Shrubs
Native Informal hedge, and is useful in groupings and masses, or as filler in informal hedge, and is useful in groupings and masses, or as filler in persistent, 1/3-inch red fruits attractive birds and other wildlife. The druit. An excellent choice for the shrub border, in mass, or near vers. It is extremely hardy and thrives with little care which make it a n shrub borders. The May blooming flowers are typically purple to prolific blooms. A wide range of flower colors vary by cultivar. Plants soften found growing in swampy, wet sites in eastern North America for wet sites. It has white blooms in early spring followed by oval green color is orange-red. Native in yearly spring before the leaves unfurl, the flowers are clusters of white red location such as near a patio, an entryway, or in a shrub border. To appear in fall, but are often hidden by the leaves. Common after flowering, splitting open to expel seeds that are attractive to naturalized landscape. If many variations. Many cultivars are available with different in the dwith cinnamon-colored, exiolating bark that is accentuated by a promote in fall. Fall color is not consistent from year to year. It takes the stranches of rebbuds before their leaves open. If were liandscape is that appear above the foliage in June and the strain of the s	intoler and	full sun, partial		3 25-30' 20-25' Washington hawthorn is one of the commonly planted hawthorn species. It has the typical white flowers, followed by red fruit that persist into	Crataegus phaenopyrum	Washington Hawthorn
and utility in the landscape. Omamental features include white, flat-topped flowers in late spring, ink-blue fruits in red fall color. The native shrub makes a great screen, informal heage, and is useful in groupings and masses, or as filler in pent to a profusion of fragrant, white flower clusters. The persistent, 173-inch red fruits affractive birds and other wildlife. The pent to a profusion of fragrant, white flower clusters. The persistent, 173-inch red fruits affractive birds and other wildlife. The units yellow in the fall, and contrasts nicely with the red fruit. An excellent choice for the shrub border, in masses, or near many colors, and well-loved lilac best known for its fragrant flowers. It is extremely hardy and thrives with little care which make it a men planting, in masses, screens, hedges, or mixed in shrub borders. The May blooming flowers are typically purple to come in magenta, pink and white. The magenta pink and white is a pring and thrives with little care which make it a magenta pink and white it is pring. The magenta pink and white it is a pring per colors white proming red stems is often found growing in swampy, wet sites in easier by cultivar. Plants is a pring per set suited for wet sites. It has white blooms in early spring followed by oval green not print the winter pink. Counts in mid to late summer. The fall color is orange-red. Native is pring in the Midwest, Canada serviceberry is best suited for wet sites. It has white blooms in early spring followed by oval green not print in the flowers are clusters of white and white proming in early spring profuses them in great abundance. Good fall color. Native is print to small read berries. Foliage has a spicy fragrance. Native is followed by ornamental read berries blooms. Opening in early spring perior early spring followers. Opening in a syle profuse are often hidden by the leaves. Common white picking print browers of this native shrub border. Native is print to small read print print print print print print print print prin		full sun, partial		4 20-30' 25-35' from intense sunlight. 4 20-30' 25-35' and along wood edges of forests. It works especially well among evergreens that contrast with its color and shelter it	Cercis canadensis	American Redbud
s filler in Native diffe. The ear Native ear Native of white border. Native sof white border.	Intolerant	full sun, partial sun/shade	S =	4 20-30' 20-30'	Cornus kousa	Kousa Dogwood
Native sters. The persistent, 1/3-inch red fruits attractive birds and other wildlife. The the red fruit. An excellent choice for the shrub border, in mass, or as filler in the red fruit. An excellent choice for the shrub border, in mass, or near ant flowers. It is extremely hardy and thrives with little care which make it a mixed in shrub borders. The May blooming flowers are typically purple to season prolific blooms. A wide range of flower colors vary by cultivar. Plants stiens is often found growing in swampy, wet sites in eastern North America. suited for wet sites. It has white blooms in early spring followed by oval green the fall color is orange-red. Native as a spicy fragrance. Indigin early spring before the leaves unfuri, the flowers are clusters of white a sheltered location such as near a patio, an entryway, or in a shrub border. In a year after flowering, splitting open to expel seeds that are attractive to a coles with many variations. Many cultivars are available with different	Moderately tolerant	full sun, partial sun/shade	10 =	This attractive small- to medium-sized ornamental tree is excellent for a small barked maple is a great plant for four seasons. Winter and spring are highlight snow, while summer brings delicate leaves with a bluish cast that can fur broadless and the street of the st	Acer griseum	Paperbark Maple
Native	Intolerant	partial sun/shade		5 15-25' 15-35' Varying in size from large shrub to small tree, Japanese maple is a species with many variations. Many cultivars are available with different characteristics such as finely dissected leaves and weeping branches.	Acer palmatum	Japanese Maple
Native :	1 2 3 4	full sun, partial shade/shade, full		The yellow, strap-like flowers of this native shrub are among the last blooms to appear in fall, but are often hidden by the leaves. Common witchhazel is a large shrub with a picturesque irregular branching habit that naturally grows along woodland edges. The large, rounded, dark green leaves often hang onto the winter branches. The fruit capsules mature a year after flowering, spitting open to expel seeds that are attractive to birds. Tolerant of road salt and clay soil, this is a great specimen plant, or for naturalized landscape.	Hamamelis virginiana	Common Witchhazel
Reblue fruits in masses, or as filler in Native and other wildlife. The in mass, or near are which make it a e typically purple to any by cultivar. Plants astem North America. followed by oval green Native	Intolerant	full sun, partial sun/shade		4 15-20' 10-15'	Magnolia stellata	Star Magnolia
Native Informal hedge, and is useful in groupings and masses, or as filler in Native Preparation of the shrub border, in mass, or near If full. An excellent choice for the shrub border, in mass, or near If shrub borders. The May blooming flowers are typically purple to prolific blooms. A wide range of flower colors vary by cultivar. Plants or were sites. It has white blooms in early spring followed by oval green or west sites. It has white blooms in early spring followed by oval green Native its orange-red. Native	Tolerant	full sun		5 15-20' 15-20' The most widely available cultivar. It has dark pink, double flowers and produces them in great abundance. Good fall color.	Prunus serrulata 'Kwanzan'	Kwanzan Cherry
Native		full sun, partial		4 8-10' 6-8' Yellow flowers in spring followed by ornamental red berries. Foliage has a spicy fragrance.	Lindera benzoin	Spicebush
In a specimen planting, in masses, screens, hedges, or mixed in shrub borders. The May blooming planting, in masses, are typically purple to the shrub or specimen planting, in masses, screens, hedges, or mixed fruits in stark green, turns yellow in the fall. and contrasts nicely with the red fruit. An excellent choice for the shrub border, in mass, or near shrub for a specimen planting, in masses, screens, hedges, or mixed in shrub borders. The May blooming flowers are typically purple to the cultivars also come in magenta, pink and white. In arrow shrub or osmall tree valued for its mid-summer to late season prolific blooms. A wide range of flower colors vary by cultivar. Plants to leaf out in the spring.	Tolerant	full sun, partial sun/shade	Native	large deciduous shrub or small free, with many colony-forming erect stems is often found growing in swampy, wet sites in eastern North America. In yards and landscapes in the Midwest, Canada serviceberry is best suited for wet sites. It has white blooms in early spring followed by oval green 10-20' leaves and edible red fruit, attractive to birds, in mid to late summer. The fall color is orange-red.	Amelanchier canadensis	Shadblow Serviceberry
Native Nor its durability and utility in the landscape. Ornamental features include white, flat-topped flowers in late spring, ink-blue fruits in moer, and wine-red fall color. The native shrub makes a great screen, informal hedge, and is useful in groupings and masses, or as filler in neg, pink buds open to a profusion of fragrant, white flower clusters. The persistent, 1/3-inch red fruits attractive birds and other wildlife. The is dark green, turns yellow in the fall, and contrasts nicely with the red fruit. An excellent choice for the shrub border, in mass, or near shrub for a specimen planting, in masses, screens, hedges, or mixed in shrub borders. The May blooming flowers are typically purple to to cultivars also come in magenta, pink and white.	Tolorant	full sun, partial		5 8-12' 6-10'	Hibiscus syriacus	Rose-of-Sharon
Native Native	Tolerant	full sun		3 8-12' 6-10'	Syringa vulgaris	Common Lilac
Native Informal hedge, and is useful in groupings and masses, or as filler in Native		full sun		In spring, pink buds open to a profusion of fragrant, white flower clusters. The persistent, 1/3-inch red fruits attractive birds and other wildlife. 4 6-10' 6-12' patios.	Malus sargentii	Sargents Crabapple
Native		full sun, partial	Native	Valued for its durability and utility in the landscape. Ornamental features inc September, and wine-red fall color. The native shrub makes a great screen, 4 the border.	Viburnum dentatum	Arrowwood Viburnum
	e Tolerance	100	Native			Deciduous Trees/Shrubs
	Salt			Zone Height Spread	Scientific Name	Common Name

	sun/shade				q	•
	full sun, partial		2 5-20' remain on a small to large screar, stitutury pine adapted for the nome landscape. Plants vary in height, texture, and year-round color. Needles	υ 	Pinus mugo	Mugo Pine
Tolerant	sun/shade	Native	Mino nino is a small to large alread absolubly and the control, in included, or for privacy.			
	full sun, partial		3 10-15' 3-4' An extremely common evergreen tree or shrub used often as a specimen in badrage or for privacy	w	Green'	Emerald Arborvitae
Tolerant	tull sun				Thuja occidentalis 'Emerald	
	;		4 6-12' 6-8' screening.	4	Heldreichii	Bosnian Pine
	sun/snade	Native	oir boight ideal for the page.		Pinus leucodermis, P.	
	full sun, partial		in May or June. This shrub is considered both an evergreen shrub of spring flowers	4	Kalmia latifolia	Mountain Laurel
	sull/stidue		This broad eaf Evergreen hears attractive pink to doop roop flower beginning in Manager at the state of the s			
	ruii sun, partiai		5 6-10' cultivar are separate male and female plants and both must be planted for the female plant to produce the show fruit.	v	llex x meserveae	Meselve Holly
		-	varies by The Merserve hollies are hybrids that do well in northern climates. Dark, Justrous blue-green leaves are evergreen and spiny Like all hollies than			Mosos Lolly
	full shade	Native	1			
	partial sun/shade,		4 6-10' for shade addens or in a shallered site.		Rhododendron catawbiense	Catawba Rhododendron
Intolerant	sun/shade	Native	A large leaved accessed the two contents and the frontier orders. Good for Small Spaces.			
	full sun, partial		2 6-8' 4-5' This popular parden confer is native to Canada and the northwestern I latted States Canada and	2	Picea glauca 'Conica'	Dwarf Alberta Spruce
Tolerant	shade					
	shade/shade, full		5 3-4' Ornamental evergreen used as hardnes borders and hardness.	G	Buxus sempervirens	Common Boxwood
	full sun, partial		Broadly rounded evergreen shiply or small tree Nation to Europe Asia and Asia Asia Asia			