



MEMORANDUM

TO: Village President and Village Board
FROM: James M. Hogue, Village Planner
DATE: December 29, 2020
RE: Route 22 Landscape Plan – CSCC Review & Comment

Village Trustee O’Conner was present at the October 7th meeting and asked if the CSCC could review the proposed landscape plans for the Route 22 widening. Specifically, she asked if CSCC would review the plantings and make suggestions, particularly as it relates to any proposed native plantings. The goal of this review is to forward information to IDOT for consideration in the Route 22 landscape plans. If acceptable to IDOT, this plant species mix could serve as model for future landscape planting along roadways. This “big picture” goal is to provide a uniform look to roadway plantings village wide.

CSCC Comments

Attached is master plant schedule for Route 22 widening. This document identifies type of plant species proposed (by the village) for re-landscaping of the Route 22 right-of-way after expansion. This list also identifies the quantities of each species proposed in the re-landscaping. Quantities are noted with the comments/concerns of the CSCC.

SHADE TREES

Acer saccharum (Sugar Maple - 24 trees)

- Concerns:

Spread: 40.00 to 60.00 feet, which sounds too wide for a median
Grows poorly in compacted, poorly drained soils. Intolerant of road salt. Generally intolerant of urban pollution.

Quercus bicolor (Swamp White Oak - 49 trees)

- Concerns:

Spread: 50.00 to 60.00 feet, which sounds too wide for a median

Quercus macrocarpa (Burr Oak - 3 trees)

- Concerns:

Spread: 60.00 to 80.00 feet, which sounds too wide for a median

Quercus alba (White Oak - 21 trees)

- Concerns:

Spread: 50.00 to 80.00 feet, which sounds too wide for a median

CONIFER TREES

Pinus Strobus (White Pine - 5 trees)

- Concerns:

Spread: 20.00 to 40.00 feet, which sounds too wide for a median

Intolerant of compacted, clayey soils, alkaline conditions, and many air pollutants such as sulfur dioxide and ozone.

ORNAMENTAL TREES

Carpinus caroliniana (Hornbeam - 8 trees)

- Concerns:

* None Noted

Cercis Canadensis (Red Bud - 45 trees)

- <https://www.missouribotanicalgarden.org/PlantFinder/PlantFinderDetails.aspx?kempercode=h550>

- Concerns:

Keeping the tree vigorous by regular watering and fertilization and by pruning out dead branches as needed will help keep the tree healthy.

Hammamelis virginiana (Common Witch Hazel - 197 trees)

- Concerns:

* None Noted

Ostrya virginiana (Hophornbeam - 53 trees)

- Concerns:

* None Noted

SHRUBS

No comments identified

PERENNIALS/GRASSES

Lobelia Cardinalis (Cardinal Flower- 1373 Plants @1 gal. container)

- Concerns:

Needs constant moisture.

A somewhat short-lived, clump-forming perennial

Monarda Fistulosa (Bee Balm - 694 Plants @ 1 gal. container)

- Concerns:

* None Noted

Pycnanthemum virginianum (Two species proposed - 75 Cheyenne Switchgrass/1344 Heavy Metal Switchgrass @ 5 gal. container).

- Concerns:

Pycnanthemum virginianum is listed with two named species, both of which are switchgrasses. This plant's common name is Mountain Mint. No major issues are identified with the Mountain Mint.

As for switchgrasses, if the goal is native plants, then we should not be using named species. The additional name is an indication of modifications to the plant, cultivars. Native switchgrass is *Panicum virgatum*. It can grow 3' and flowers up to 6' tall, it slowly spreads via rhizomes. It prefers medium to wet soils, but is tolerant of dry soil and air pollution. It primarily grows in clumps, but will spread via rhizomes.

Schizachyrium scoparium (not *Schizacharium scoparius*) (Little Blue Stem – 1058 @ 1 gal. container).

- Concerns:

Little Bluestem, *Schizachyrium scoparium*, can reach 4' tall. It is tolerant of air pollution.

Sporobolus heterolepis (Prairie Dropseed – 1356 @ 1 gal. container).

- Concerns:

Prairie Dropseed, *Sporobolus heterolepis*, also tolerates dry soil and air pollution,

Village Arborist Comments

I have not reviewed any of these plans for route 22. Is this for a widening project, utility upgrades or just a beautification project? Are any existing trees going to be removed for this project? My first concern would be, will any of these new plantings be installed within the critical root zones of existing trees? It appears numerous existing trees could potentially be damaged by the excavation of the root balls of these plantings. Was there any consideration of how the existing trees' overhanging crowns may limit the available planting space?

It appears that the shade and ornamental trees are spaced appropriately--40' on center for the shade and 20'-25' for the ornamentals. The second concern I would have is, are there site line restrictions from vehicles exiting driveways onto Rt. 22 with these new plantings, particularly the shrubs and ornamental plantings?

ROUTE 22 WIDENING LANDSCAPE PLANTING LIST

MASTER PLANT SCHEDULE

DESCRIPTION	QTY	CODE	BOTANIC NAME	COMMON NAME	SIZE/TYPE	COMMENTS
SHADE TREES	195					4" TREE IF IN DOWNTOWN AREA
	3	ACFA	ACER FREMANII 'AUTUMN BLAZE'	AUTUMN BLAZE MAPLE	2.5"BB	
	24	ACSA	ACER SACCHARUM	SUGAR MAPLE	2.5"BB	
	18	ACRO	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY MAPLE	2.5"BB	
	13	GYDI	GYMNOCLADUS DIOICA	KENTUCKY COFFEETREE	2.5"BB	
	29	NYSY	NYSSA SYLVATICA	TUPELO	2.5"BB	
	49	QUBI	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5"BB	
	3	QUMA	QUERCUS MACROCARPA	BUR OAK	2.5"BB	
	2	QUCO	QUERCUS COCCINEA	SCARLET OAK	2.5"BB	
	17	QUBI	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5"BB	
	21	QUAL	QUERCUS ALBA	WHITE OAK	2.5"BB	
	16	ULAP	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	2.5"BB	
CONIFER TREES	5					
	5	PIST	PINUS STROBUS	WHITE PINE	7"BB	
ORNAMENTAL TREES	707					
	167	ACGF	ACER GINNALA 'FLAME'	FLAME AMUR MAPLE	6' BB	
	14	CRCI	CRAETAEGUS CRUS-GALI VAR INERMIS	THORNLESS HAWTHORN	8' BB	
	106	AMXG	AMELANCHIER X 'AUTUMN BRILLIANCE'	APPLE SERVICEBERRY	8' BB	
	8	CACA	CARPINUS CAROLINIANA	HORNBEAM	7' BB	
	45	CECA	CERCIS CANADENSIS	REDBUD	8' BB	
	97	HACA	HALESIA CAROLINIANA	CAROLINA SILVERBELL	6' BB	
	197	HAVI	HAMMAMELIS VIRGINIANA	COMMON WITCH HAZEL	6' BB	
	20	MAPF	MALLUS 'PRAIRIE FIRE'	PRAIRIE FIRE CRABAPPLE	8' BB	
	53	OSVI	OSTRYA VIRGINIANA	HOPHORNBEAM	6' BB	
SHRUBS	1426					
	261	AEPA	AESCULUS PARVIFLORA	BOTTLEBRUSH BUCKEYE	6' BB	
	186	ARMV	ARONIA MELANOCARPA 'VIKING BLACK'	VIKING CHOKEBERRY	36" BB	
	565	ARAB	ARONIA ARBUTIFOLIA 'BRILLIANT RED'	BRILLIANT RED CHOKEBERRY	36" BB	
	32	PHOS	PHYSOCARPUS OPULIFOLIUS 'SUMMER WINE'	SUMMER WINE NINEBARK	36" BB	
	206	VIDB	VIBURNUM DENTATUM 'BLUE MUFFIN'	BLUE MUFFIN VIBURNUM	36" BB	
	176	VIDL	VIBURNUM DENTATUM 'LITTLE JOE'	LITTLE JOE (POLLINATOR FOR E36" BB)		
PERENNIALS/GRASSES	12243					
	836	VERLEI	VERNONIA LETTERMANNII 'IRON BUTTERFLY'	IRON BUTTERFLY VERNONIA	#1 GAL	18" OC
	1373	LOBCAR	LOBELIA CARDINALIS	CARDINAL FLOWER	#1 GAL	18" OC
	694	MONFIS	MONARDA FISTULOSA	BEE BALM	#1 GAL	18" OC
	75	PANVIC	PANICUM VIRGATUM 'CHEYENNE SKY'	CHEYENNE SKY SWITCHGRASS	#5 GAL	18"-24" OC
	1344	PANVIH	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCHGRASS	#5 GAL	18"-24" OC
	1270	PYCVIR	PYCNANTHEMUM VIRGINIANUM	MOUNTAIN MINT	#1 GAL	18" OC
	2238	ECHPLP	ECHINACEA PURPUREA 'PRAIRIE SPLENDOR'	PRAIRIE SPLENDOR CONEFLOW	#1 GAL	18" OC
	1058	SCHSCO	SCHYZACHARIUM SCOPARIUS	LITTLE BLUE STEM	#1 GAL	18" OC
	1356	SPOHET	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	#1 GAL	18" OC
	1999	AMSHUB	AMSONIA HUBRECHTII	NARROWLEAF BLUESTAR	#1 GAL	18" OC

NOTE: MOST PLANTS ARE NATIVE TO NORTH AMERICA, OR NATIVE SELECTIONS OR CULTIVARS, OR SELECTED FOR UNIQUE CHARACTERISTICS OR HARDINESS.