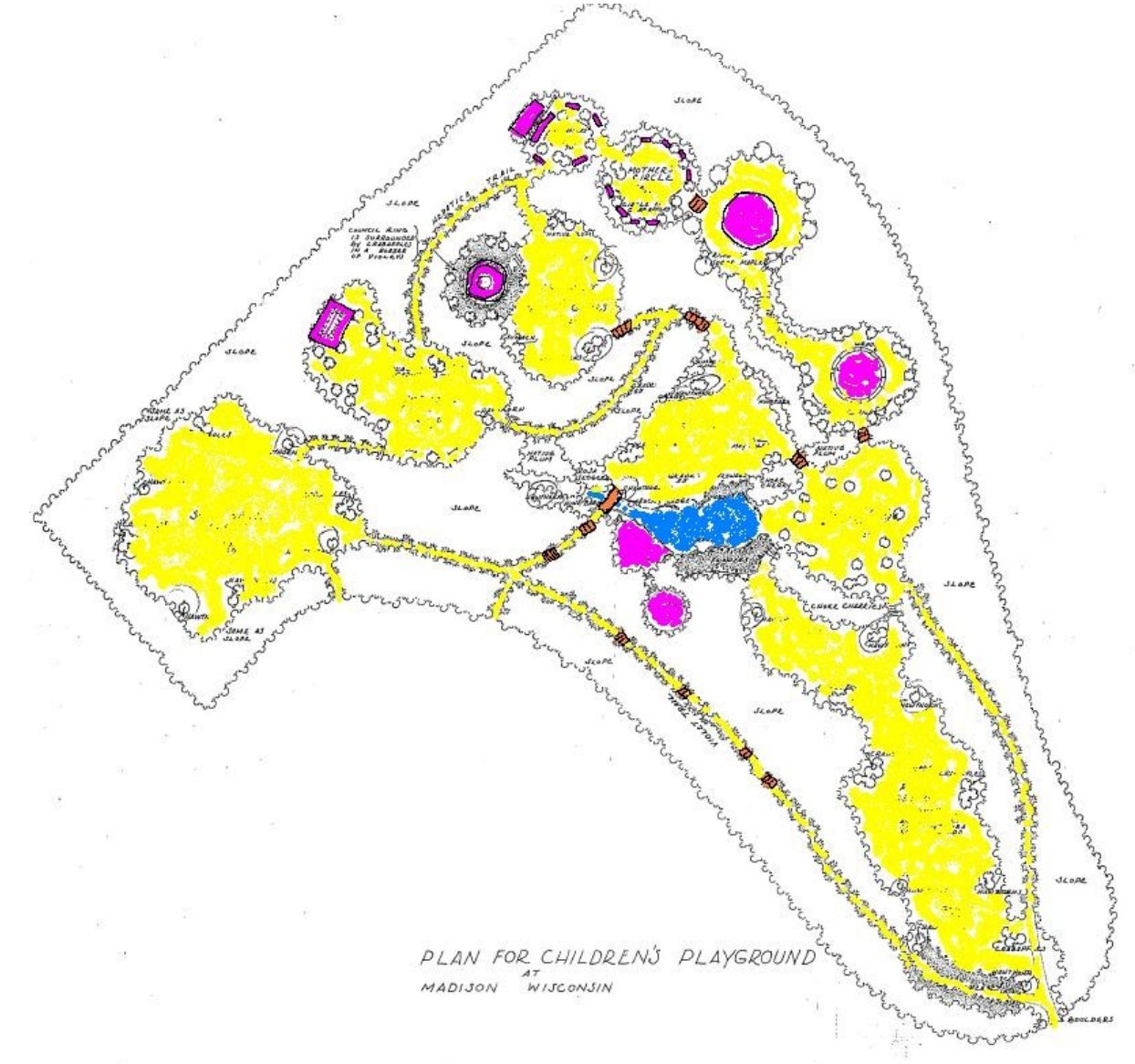


Tree Legend: Past Removal, Treated / Girdled Current Removal, Proposed Added Removal 2016-2017, Proposed Added Removal 2017-2020 for Sing Ring & Unit #2 Savanna

Tree ID	SPECIES	DBH	HT	MAINT
T032	Hackberry - Celtis occidentalis	13	55	N/A
T039	Black Locust - Robinia pseudoacacia	11	55	Removed
T040	Hackberry - Celtis occidentalis	10	50	Removed
T041	Hackberry - Celtis occidentalis	10	40	Removed
T117	Hackberry - Celtis occidentalis	8	45	N/A
T118	American Elm - Ulmus Americana	7	25	Treat/ Remove
T119	Hackberry - Celtis occidentalis	8	40	N/A
T121	Bur Oak - Quercus macrocarpa	14	45	N/A
T122	Black Locust - Robinia pseudoacacia	11	60	Remove
T123	Black Locust - Robinia pseudoacacia	13	50	Remove
T124	White Oak - Quercus alba	14	45	Minor prune
T125	Black Walnut - Juglens nigra	9	50	N/A
T126	American Elm - Ulmus Americana	7	45	Treat/ Remove
T127	Hackberry - Celtis occidentalis	11	50	N/A
T128	Hackberry - Celtis occidentalis	6	40	N/A
T129	Hackberry - Celtis occidentalis	8	45	N/A
T130	Box elder - Acer Negundo	10	30	Remove
T131	Black Locust - Robinia pseudoacacia	18	60	Remove
T132	White Oak - Quercus alba	17	60	N/A
T133	White Oak - Quercus alba	23	60	N/A
T134	Black Locust - Robinia pseudoacacia	10	55	Remove
T135	Black Locust - Robinia pseudoacacia	8	45	Remove
T136	American Elm - Ulmus Americana	7	45	Treat/ Remove
T137	Black Locust - Robinia pseudoacacia	13	70	Remove
T138	Black Locust - Robinia pseudoacacia	10	45	REMOVED
T139	Black Locust - Robinia pseudoacacia	13	75	Remove
T140	American Elm - Ulmus Americana	12	60	Treat/Remove
T141	Hackberry - Celtis occidentalis	13.7	60	Major prune
T142	Black Locust - Robinia pseudoacacia	10	50	Remove
T143	Black Locust - Robinia pseudoacacia	16	30	Remove
T144	Black Locust - Robinia pseudoacacia	13	50	Remove
T145	Black Locust - Robinia pseudoacacia	17	15	Remove
T146	American Elm - Ulmus Americana	11	45	Remove
T147	American Elm - Ulmus Americana	10	40	Remove
T148	Mulberry - Morus rubra	8	40	Minor prune
T149	Black Locust - Robinia pseudoacacia	8	40	Remove
T150	Black Locust - Robinia pseudoacacia	10	50	Remove
T151	Box elder - Acer Negundo	10.3	45	Minor prune
T152	Box elder - Acer Negundo	6	35	N/A
T153	Mulberry - Morus rubra	7	40	N/A
T154	Hackberry - Celtis occidentalis	6	30	N/A
T155	Box elder - Acer Negundo	11	40	N/A
T156	Box elder - Acer Negundo	6	30	N/A



Woodland Edge/Savanna Mix for Semi-Shadow

For a space that's not quite sunny enough for a prairie but not quite shaded enough for a woodland... this mix is designed for a prairie that receives a few hours of direct light every day. The wildflowers and grasses in this mix have been selected for their ability to grow in semi-shade, while also retaining some direct sunlight for a few hours each day. Excellent for oak savanna, open woodlands and forest edges.

The wide variety of flowers provides blooms throughout the season. Some are very tall. This mix is designed for rich, sandy soils. Not recommended for planting on dry, sandy soils.

Woodland Edge/Savanna Mix for Medium Soils (see notes)
Consists of 12 wildflowers and 2 grasses.



Bioengineering Materials Logs, Limbs, Brush-Bundles

LT#	RT#	LF	END STAKE	LOGS
T144	T142	28		
T145	T144	10		
T145	T143	22		
ROCK	T145	11		
ROCK	T143	25	1	
ROCK	B	23		
T143	C	16		
T145	T135	48	2	
T142	T135	15		
T143	T140	23		
B	T140	22		
T143	A	10	1	
STUMPS	T143	9		
T140	T134	15		
T140	T136	18		
T140	T135	9		
T135	T134	8		
T134	T136	9		
T143	T141	14		
T141	T139	14		
T139	T137	10		
A	T139	15		
STUMPS	T138	33		
STUMPS	TOE2	15		
TOE1	STUMPS	8		
TOE OF SLOPE				130
Brush-Bundles & Limbs		430 ft @ 60 lf; round to 500 lf		
		If 500 lf @ 60%; then 850 lf @ 100 lf length of slope area		
		Toe/Base of Slope - entire length = 130 lf		

Woodland Semi-Shadow Garden

This is a great woodland garden for those shady spots that get only a few hours of direct sunlight each day. Perfect for planting under shade trees, open woodlands and on shady woodland edges. Stephanie Cohen, Instructor of Horticulture at Temple University in Allentown, PA, designed this garden to provide year-round color and texture. The plants are mostly to group and create for maximum visual effect.

As opposed to a wide range of colors, this is a richly textured garden. The plants are mostly to group and create for maximum visual effect. The plants are mostly to group and create for maximum visual effect.



40 Plant Woodland Semi-Shadow Garden

Erosion Control Seed Mix Prices

Material	18000 lb	22000 lb	1 ton	Wagon
5006	1585.00	1945.00	448.00	448.00
5006	1585.00	1945.00	448.00	448.00
5005	1585.00	1945.00	448.00	448.00

Plant List Trees & Shrubs

Lead Plant	Amorpha canescens
New Jersey Tea	Ceanothus americanus
Bush Honeysuckle	Diervilla
American Plum	Prunus Americana
Chinkapin Oak	Quercus muehlenbergii
Staghorn Sumac	Rhus typhina
Blackhaw	Viburnum prunifolia



Making a Bundle 20 ft long

Ground Bioengineering Techniques for Slope Protection and Erosion Control

H.M. Schiecht and R. Stern.



Sing Ring 2012 Temporary Benches



Lake Julia Wisconsin 100 ft x 12 ft slope Stabilized and restored with Birch logs & limbs

Glenwood Children's Park
East Slope Restoration Project