



CONSTRUCTION PLAN

PRACTICE(S) CRITICAL AREA PLANTING October 7, 2016

LANDOWNER BUTKUS - SQUASH LAKE PROPERTIES 2016-03

ADDRESS 7010 LONG LAKE ROAD, RHINELANDER WI 54501

LANDOWNER PHONE NO. _____ COUNTY ONEIDA

TOWNSHIP CRESCENT T 36 N, R 8 E/W, Sec. 19

FIELD OFFICE _____ TELEPHONE NO. _____

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LOCATION MAP

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TDD 1-800-542-2289



Website
www.diggershotline.com

NOTICE TO LANDOWNERS AND EXCAVATORS

Any representation made by the USDA, Natural Resources Conservation Service, or the ONEIDA County LCD, as to the approximate location or nonexistence of above or under ground hazards does not relieve the owner of the property or the excavator that is hired to complete construction, from notifying Diggers Hotline of the pending construction. You will be liable for damages resulting from construction activities. (Call Diggers Hotline) Ticket # _____

Landowner Acceptance: See WI Jobsheet 819

Designed by: _____ Date: _____

Checked by: _____ Date: _____

Approved by: _____ Date: _____

The installed practices comply with applicable NRCS technical standards and specifications. The "redlined" construction plans (as-built drawings) reflect changes made during construction.

Construction Approved by: _____ Date: _____

Job Approval Class _____ Sheet _____ of _____

SQUASH LAKE PROJECT SUMMARY

Total Project Cost: \$5,186.88

BEFORE

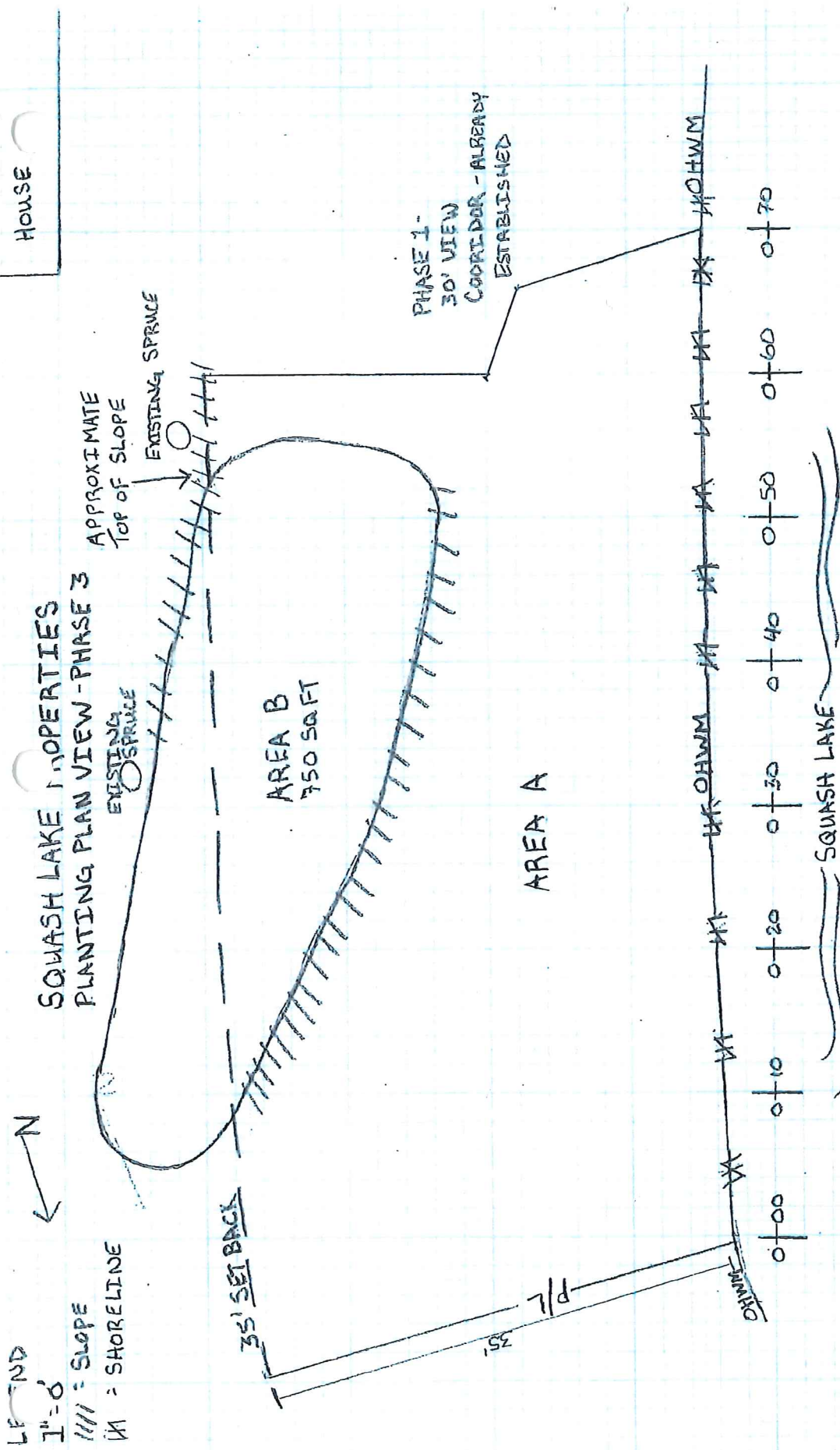


Project consisted of shoreline and upland plantings, no rock rip rap. Plantings were completed in Summer, 2017. Seventy feet of Shoreline were restored.

Ten trees, 40 shrubs, 628 ground cover plants, and ten ounces of grass seed mix were used to restore a total of 2,400 square feet.

AFTER





NOTES
 NATIVE NON-INVASIVE PLANTS MUST BE USED.
 FOR ADDITIONAL PLANTING DETAILS, REFER TO PLANTING PLAN NOTES
 AREA A: 2002.5 SQUARE FEET
 AREA B: 750 SQUARE FEET
 AREA B: 128 LITTLE BLUE STEM PLUGS
 2 OUNCES LITTLE BLUE STEM SEEDS
 1/2 POUND SEED MIX
 ALL AREAS COVER WITH NET-FREE EROSION CONTROL BLANKET
 LEAF COMPOST: ADD 1 CY TO AREA B. THE REST WORK INTO PLANTING HOLES
 DO NOT ADD SOLID LAYER OF COMPOST TO STEEPER SLOPES

BUTKUS
 SQUASH LAKE PROPERTIES, LLC
 7010 LONG LAKE ROAD
 RHINELANDER, WI 54501
 DATE: 09-26-2016
 DESIGNED BY: SB
 ONEIDA COUNTY LAND &
 WATER CONSERVATION DEPT.
 PAGE ___ of ___

ESTIMATED QUANTITIES

ITEMS	QUANTITY	UNIT	SHEET NUMBER	WI CONST. SPEC. (WCS)
Erosion and Pollution Control	1	each		WCS #5
Leaf Compost	1.25	CY		WI Bio Tech Note 1
Curlex Net Free erosion control blanket w/ 6" biodegradable stakes	306	SY		WI Bio Tech Note 1
Vegetation - see Plant List				
Trees	10	each		WI Bio Tech Note 1
Shrubs	40	each		WI Bio Tech Note 1
Ground Cover Plants for Area A (150 grass/sedges & 350 forbs)	500	each		WI Bio Tech Note 1
Ground Cover Plants for Area B	128	each		WI Bio Tech Note 1
Custom Seed Mix: Grass/Sedge for Area A	8	ounces		WI Bio Tech Note 1
Custom Seed Mix: Grass/Sedge for Area B	2	ounces		WI Bio Tech Note 1
Custom Seed Mix: Forbs for Area A	4	ounces		WI Bio Tech Note 1
Custom Seed Mix: Forbs for Area B	1/2	pound		WI Bio Tech Note 1
Nurse Crop Annual Rye Grass for All Areas	1/4	pound		WI Bio Tech Note 1
Watering system - Already Installed	0	job		WI Bio Tech Note 1
Temporary fencing will be provided by owner	0	job		WI Bio Tech Note 1 & Temporary Deer Fence Specs
Mobilization/demobilization	1	job		WCS # 7
All quantities are measured to neat lines and grade. It is the contractors responsibility to supply the materials for the job and bid accordingly.				

Owner: **Squash Lake Properties, LLC** (Project Phase 3)
 Designed by: Oneida County Land & Water Conservation (sb)
 Checked by:
 Sheet _____ of _____

PLANTING PLAN NOTES

1. Wisconsin Biology Technical Note 1 is enclosed. This booklet includes the information you and/or your landscaper will need to prepare your site and complete your planting.
2. All plants shall be native to your county or region and chosen only from the Plant List provided in the plan. Use scientific names to purchase plants.
3. A list of the selected plants (scientific names) with individual amounts planted shall be submitted with paid invoice(s).
4. Plant species, quantities, and seed packets will need to be approved by Oneida County's Land & Water Conservation Department prior to planting. This should occur during the pre-construction meeting.
5. Maximum size for vegetation cost share shall be the following: Trees – 7 gallon container; Shrubs – 2 gallon container; ground cover – 4.5 inch.
6. All plants shall be in good condition at time of planting. Keep plants watered and in the shade until planted. Soak thoroughly before removing from the container to plant
7. Plant vegetation at the optimal time of the year.
8. Annual rye grass for nurse crop should not to be seeded after September 15th.
9. Location of vegetation will be in Areas A & B as shown on the plan. Consider creating plant communities that are compatible with those already existing in the area. To benefit pollinators and other wildlife, consider using flowering shrubs and forbs that have resilient root systems and good soil holding capacity.
10. Plants shall be evenly distributed in the areas designated for plantings and the correct plants placed in the correct habitat – i.e.: sun, shade, etc. See Planting Considerations.
11. Newly planted areas will be covered with Curlex Net Free erosion control blanket, or equivalent, and 100% biodegradable stakes or staples must be used.
12. The nursery where you purchase your plants will provide detailed instructions regarding planting.
13. Water shall be provided to the newly planted vegetation on a regular basis. This may mean an irrigation system be installed temporarily, not to exceed two growing seasons. Thereafter, water when drought conditions exist. Owner has already installed watering system.
14. No substitutions unless prior approval by Oneida County Land & Water Conservation Department and landowner.
15. Remember, this is a restoration of a shoreland area and the goal is to look like a natural area, not a landscape look!

OWNER: SQUASH LAKE PROPERTIES, LLC

7010 Long Lake Road, Rhineland WI 54501

Oneida County Land & Water Conservation Department

Designed by: SB

Checked by: MS

Date:

Sheet _____ of _____

PLANT LIST
(Squash Lake Properties, LLC)
Project Phase 3

TECHNICAL NOTES

1. Species with an * are mandatory
2. Species in **Bold** are recommended
3. Use only native species.
4. Trees, shrubs, and groundcover may be transplanted from adjacent woodland or open areas outside of the restoration area.
5. Trees must be at least 2 year old seedlings, 8 inches or taller
6. Plant one plant per hole.
7. Ground cover shall be comprised of a minimum of 30% grasses and/or sedges.
8. Area A = 2002.5 square feet; Area B = 750 square feet

AREA A

TREES = 10 Choose a minimum of two (2) different species

Balsam Fir *Abies balsamea*
Basswood *Tilia Americana*
Black Spruce *Picea mariana*
Burr Oak *Quercus macrocarpa*
Chokecherry *Prunus virginiana*
Ironwood *Ostrya Virginiana*
Downy Serviceberry *Amelanchier arborea*
Glossy Black Chokeberry *Aronia melanocarpa*
Northern Pin Oak *Quercus ellipsoidalis*
Northern Red Oak *Quercus rubra*
Pin Cherry *Prunus pennsylvanica*
Red Maple *Acer rubrum*
Red Pine *Pinus resinosa*
Serviceberry *Amelanchier laevis*
Showy Mountain Ash *Sorbus decora*
Staghorn Sumac *Rhus typhina*
Sugar Maple *Acer Saccharum*
Swamp White Oak *Quercus alba*
White Paper Birch *Betula papyrifera*
White Pine *Pinus strobus*
Wild Plum *Prunus Americana*

SHRUBS = 40 Choose a minimum of three (3) different species

Bearberry *Arctostaphylos uva-ursi*
Blueberry *Vaccinium Angustifolium*
Bush honeysuckle *Diervilla lonicera*
Common Nine bark *Physocarpus opulifolius*
Downy Arrowwood *Viburnum rafinesquianum*
Glossy Black Chokecherry *Aronia melanocarpa*
Gray Dogwood *Cornus racemosa*
Hazelnut *Corylus Americana cornuta*
Highbush Cranberry *Viburnum trilobum*
Maple Leaf Viburnum *Viburnum acerifolium*
Meadowsweet *Spiraea Alba*

Nannyberry *Viburnum lentago*
 Red Elderberry *Sambucus pubens*
Red-Stem Dogwood *Cornus Stolonifera*
Serviceberry *Amelanchier laevis*
 Smooth Rose *Rosa blanda*
Snowberry *Symphoricarpus albus*
Staghorn Sumac *Rhus typhina*
Steeplebush *Spiraea tomentosa*
Sweetfern *Comptonia peregrine*
 Sweet Gale *Myrica gale*
 Water Willow *Decodon verticillatus*
Winterberry *Ilex verticilla*

GROUND COVER PLANTS = 500 plants Choose a minimum of ten (10) different varieties.

PLANTS: GRASSES, RUSHES, & SEDGES = 150 Choose a minimum of three (3) different species

*Bottlebrush Grass *Hystrix patula*
 *Common Lake Sedge *Carex lacustris*
 *Curly Styled Wood Sedge *Carex Rosea*
Northern Sweet Grass *Hierochloe odorata*
Pennsylvania Sedge *Carex pensylvanica*
Rough Leaved Rice Grass *Oryzopsis asperfolia*
Switch grass *Panicum virgatum*

PLANTS: FORBS = 350 Choose a minimum of three (3) different species

*Barren Strawberry *Waldsteinia fragarioides*
 *New England Aster *Aster novae-angliae*
 *Ox-eye Sunflower *Heliopsis helianthoides*
 *Showy Goldenrod *Solidago speciosa*
 *Tickseed *Coreopsis lanceolata*
 *Wild Bergamot *Monarda fistulosa*
Big-leaved Aster *Aster Eurybia macrophyllus*
 Bird's foot Violet *Viola pedata*
Black Eye Susan *Rudbeckia hirta*
Blue Flag Iris *Iris versicololor*
 Blue Vervain *Verbena hastata*
Canada Anemone *Anemone Canadensis*
 Canada Goldenrod *Solidago canadensis*
Common Milkweed *Asclepias syriaca*
 Common Spiderwort *Tradescantia ohiensis*
 Cranesbill, Wild Geranium *Geranium bicknellii*
 Culvers Root *Veronicastrum virginicum*
Cup Plant *Silphium Perfoliatum*
 Daisy Fleabane *Erigeron glabellus*
 Dogbane *Apocynum androsaemifolium*
 Early Goldenrod *Solidago juncea*
 Early Meadow Rue *Thalictrum Dioicum*

Fireweed *Epilobium angustifolium*
 Frost Aster *Aster pilosus*
 Giant goldenrod *Solidago gigantea*
 Golden Alexander *Zizia Aurea*
Harebells *Campanula rotundifolia*
 Heath Aster *Aster ericoides*
Joe Pye Weed *Eupatorium maculatum*
 Lance Leaf Coreopsis *Coreopsis lanceolata*
Mountain Mint *Pycnanthemum virginianum*
 Northern Blue Flag *Iris versicolor*
 Northern Sweet Grass *Hierochloe odorata*
 Old Field Goldenrod *Solidago nemoralis*
 Ox-eyed Sunflower *Heliopsis helianthoides*
 Pale Purple Coneflower *Echinacea pallida*
 Pearly Everlasting *Anaphalis margaritacea*
 Purple Coneflower *Echinacea pallida*
 Purple Prairie Clover *Dalea purpurea*
 Pussytoes *Antennaria spp*
 Red Baneberry *Actaea rubra*
 Rough Blazing Star *Liatris aspera*
 Rough Sunflower *Helianthus hirsutus*
Showy Blazing Star *Liatris ligulistylis*
 Sky-blue Aster *Aster azureus*
 Smooth Aster *Aster laevis*
Swamp Milkweed *Asclepias incarnata*
Tall Thimbleweed *Anemone virginiana*
 Virginia Bluebells *Mertensia virginica*
 White Baneberry *Actaea pachypoda*
 White False Indigo *Baptisia lacteal alba*
Wild Columbine *Aquilegia Canadensis*
 Wild Lupine *Lupinus perennis*
 Wild Rose *Rosa blanda Aiton*
Wild Strawberry *Fragaria virginiana*
Woodland Sunflower *Helianthus strumosus*
 Yarrow *Achillea millefolium*
 Zig Zag Goldenrod *Solidago flexicaulis*

SEED MIX: GRASSES, RUSHES, & SEDGES = 8 oz Choose a minimum of 3 species

*Little Bluestem *Andropogon scoparium*

Bottlebrush Grass *Elymus hystrix aka Hystrix patula*

Indiangrass *Sorghastrum nutans*

Northern Sweetgrass *Hierochloe hirta* (seed may not be readily available. Plants may be substituted)

Pennsylvania Sedge *Carex pennsylvanica*

Switch Grass *Panicum virgatum*

SEED MIX: FORBS = 4 oz Choose a minimum of 3 species

- *Black Eye Susan *Rudbeckia hirta*
- *Lance Leaf Coreopsis *Coreopsis lanceolata*
- *Wild Lupine *Lupinus perennis*

AREA B

TREES = 0

SHRUBS = 0

GROUND COVER PLANTS = 128

PLANTS: GRASSES, RUSHES, & SEDGES = 128

- *Little Bluestem *Andropogon scoparium*

SEED MIX: GRASSES, RUSHES, & SEDGES = 2 oz

- *Little Bluestem *Andropogon scoparium*

SEED MIX: FORBS = 1/2 pound Choose a minimum of 3 species

- Black Eye Susan *Rudbeckia hirta***
- Lance Leaf Coreopsis *Coreopsis lanceolata***
- New England Aster *Aster novae-angliae***
- Purple Coneflower *Echinacea purpurea***
- Wild Bergamot *Monarda fistulosa***
- Wild Lupine *Lupinus perennis***

AREAS A & B

NURSE CROP = 1/4 pound

- *Annual Rye Nurse Crop Seed - *Lolium multiflorum*

Notes: Do not use winter rye or perennial rye.

Nurse crop to be planted by September 15th.