



Forested Wetland Installation Specifications

Part I General

1.01 Section Includes

- A. Preparation
- B. Seeding
- C. Maintenance

1.02 Bidder Qualifications

- A. The submitting bidders shall be, and have been, actively and directly engaged in prairie seed installation for a period of two (2) or more years. Provide proof of five (5) or more successful wetland seed and tree installations.
- B. The submitting bidder must have access to and experiences with a no-till fluffy seed drill designed for prairie seed installations. Such drills are manufactured by Truax, Great Plains, and John Deer, Inc. Hydro-seeding may not be substituted for drill seeding.

1.03 Environmental Requirements

- A. Installations shall be performed between September 20 and December 20 or April 1 and June 1.

Under no circumstances shall this site be stabilized with winter rye, grain rye, or winter wheat. These plants produce toxins that inhibit prairie seed germination.

- B. Site shall have a firm seedbed. If walking compacts soil over ½ inch, the site shall be culti-packed.

1.04 Materials

- A. All native seed shall be refrigerated for at least 90 days prior to installation. All native seed must be of wild ecotype. No hybrids or cultivars may be included. Local genotype seed shall be used whenever possible due to its adaptation to local soil and climate. These specifications do not apply to the temporary matrix.

Part II Products

2.01 Seed Mixture

Forested Wetland Seed Mix- Specifications per acre

Temporary Matrix

32 lbs Seed Oats (*Avena sativa*)
10 lbs Annual Ryegrass (*Lolium multiflorum*)
2 lbs Timothy (*Phleum pretense*)

Grasses and Sedges

2 oz Tall Brome (*Bromus latiglumis*)
2 oz Frank's Sedge (*Carex frankii*)
1 oz Spreading Oval Sedge (*Carex normalis*)
2 oz Fox Sedge (*Carex vulpinoidea*)
2 oz Wood Reed (*Cinna arundinacea*)
1 oz Fowl Manna Grass (*Glyceria striata*)
4 oz Bottlebrush Grass (*Hystrix patula*)
8 oz Riverbank Wild Rye (*Elymus riparius*)
4 lbs Virginia Wild Rye (*Elymus virginicus*)

Forbs and Wildflowers

2 oz Wingstem (*Actinomeris alternifolia*)
2 oz Calico Aster (*Aster lateriflorus*)
1 oz Panicked Aster (*Aster simplex*)
1 oz Hairy Wood Mint (*Blephilia hirsuta*)
2 oz False Sunflower (*Heliopsis helianthoides*)
0.5 oz Great Blue Lobelia (*Lobelia siphilitica*)
2 oz Branched Coneflower (*Rudbeckia triloba*)
2 oz Tall Coneflower (*Rudbeckia laciniata*)
2 oz Cupplant (*Silphium perfoliatum*)
1 oz Late Goldenrod (*Solidago gigantea*)

Container Trees – 3 gal

Select Bottomland Tree Species appropriate for your area

Part III Execution

3.01 Examination

- A. Verify that seedbed is sufficiently firm.
- B. Verify that the site is clean and free of debris.

3.02 Preparation and Installation

Seeded Areas

- A. If vegetation exists on site, apply a glyphosate herbicide at least three days prior to installation on all actively growing vegetation. Do not herbicide in existing tree plantings. Never apply fertilizer to the site.
- B. Install seed when soil is sufficiently dry so that soil does not stick to the packer wheels on the drill.
- C. Ensure the drill is properly calibrated to sow the specified amount of seed over the specified area. Ensure complete coverage of the specified area.

Tree plantings

- A. Auger 2 foot diameter holes on a 25 foot center throughout planting.
- B. Alternate species throughout planting. Plant with soil level of the container tree level with the surrounding grade. Backfill around trees and firm the backfilled soil. Water trees thoroughly within 2 days of installation to settle soil.

3.03 Maintenance

- A. Mow at a height of 4-6 inches when the oats set seed heads. Mow at a height of 4-6 inches once a month or whenever weed growth reaches 10 inches for the remainder of the first season. Keep mowing equipment at least 1 foot from trees.
- B. If cool season weed growth is heavy in the spring of the second season, mow once in late May.

3.04 Acceptance – For acceptance of the system at the beginning of the second full growing season, the following conditions shall be met.

- A. Coverage- 75% of each seeded community shall be covered with vegetation.

- B. Presence- 50% of the seeded species planted should be alive and present. 80% Of the trees shall be alive and present.

- B. Abundance- 25% of the seeded vegetation should be native species of the permanent matrix.