

TREE PLANTING SPECIFICATIONS

The Sustainable Resources Institute, Inc. (SRI) is accepting bids for tree planting and protection installation on six separate properties in Delta County (3), Iron County (1), Baraga County (1), and Mackinac County (1), Michigan. This work is being conducted under a Michigan Department of Natural Resources Wildlife Habitat Grant project. All communications, inspections, and supervision related to this work will be coordinated by SRI staff or representatives. Only complete bids will be accepted.

Site 1: Nehmer Camp Inc.

- **Location:** Government Lot 1 & 2 of Section 28 and T43N-R20W, Masonville Township, Delta County, MI
- **Project Acreage:** 20 Acres
- **Present Site Conditions:** 20 acre mixed deciduous upland site last harvested in 2021. Current regeneration is scattered Red Maple and Black Cherry stump sprouts.
- **Desired Future Condition:** Fully stocked (800 TPA) mixed conifer planting with 1 acre opening in the center of the unit planted with Red Oak, Burr Oak, and Crap/Thornapple with herbivory protection at a 20x20 spacing.

Planting Specifications:

- **Conifers:** 1-2 YO Stock. 4-6" height. 800 TPA, at a 7'x8' spacing. 15,198 seedlings of White Pine, White Spruce, Black Spruce, Balsam Fir, Cedar, and Hemlock in equal portions or 2,533 of each species.
- **Deciduous:** 100 Potted 1-2' tall stock in quart containers with woven wire fencing supported by 1, 6' metal stake. Fencing will be 4' tall with a 2' diameter when placed. 100 TPA, at a 20'x20' spacing.
 - 30 – Red Oak
 - 30 – Burr Oak
 - 40 – Crab/Thornapple

Site 2: Thorbahn

- **Location:** SE ¼ NE ¼ of Section 7, T41N-R21W, Masonville Township, Delta County, MI
- **Project Acreage:** 16 acres
- **Present Site Conditions:** 4 year old Spruce Budworm salvage harvest.
- **Desired Future Condition:** Functional mixed conifer upland thermal cover with hard mast component.

Planting Specifications:

- **Conifers:** 1-2 YO Stock. 802 TPA, at a 7'x8' spacing. 12,672 seedlings of White Pine, Red Pine, White Spruce, and Black Spruce in equal portions or 3,168 of each species. 160 Potted Hemlock and Cedar with 4' welded wire cage protection with one 6' metal stake. Planted 5 trees per acre at 80 trees each.
- **Deciduous:** 1-2 YO containerized potted stock of Red Oak and White Oak. South side of the 16-acre planting area will have 5 Red Oak and 5 White Oak group species evenly spaced (approximately every 50') and alternating between the species. These 10 stems will have 4' wire cage protection supported with one 6' metal stake.

Site 3: Stegath Tree Farm

- **Location:** E ½ SW ¼, NW ¼ SE ¼ of Section 6, T43N-R23W, Maple Ridge Township, Delta County, MI
- **Project Acreage:** 10 acres
- **Present Site Conditions:** 3 year old salvage harvest of abandoned Christmas tree plantation.
- **Desired Future Condition:** Functional mixed conifer upland thermal cover with hard mast component.

Planting Specifications:

- **Conifers:** 1-2 YO Stock. 802 TPA, at a 7'x8' spacing. 7,920 seedlings of White Pine, Red Pine, White Spruce, and Black Spruce in equal portions or 1,980 of each species. 100 Potted Hemlock and Cedar with 4' welded wire cage protection with one 6' metal stake. Planted in one 10 tree pod per acre.
- **Deciduous:** 1-2 YO containerized potted stock of Red Oak and White Oak. South side of the 10-acre planting area will have 5 Red Oak and 5 White Oak group species evenly spaced (approximately every 50') and alternating between the species. These 10 stems will have 4' wire cage protection supported with one 6' metal stake.

Site 4: Tarsi

- **Location:** NE ¼ SE ¼ and NE ¼ NE ¼ of Section 31, T45N-R34W, Hematite Township, Iron County, MI
- **Project Acreage:** 12 acres
- **Present Site Conditions:** Recent final harvest of Red Pine with no understory.
- **Desired Future Condition:** Fully stocked, functional upland mixed conifer forest cover.

Planting Specifications:

- **Conifers:** 1-2 YO Stock. 800 TPA, at a 7'x8' spacing. 9,456 seedlings of White Pine, White Spruce, Black Spruce, Balsam Fir, Cedar, and Hemlock in equal portions or 1,576 of each species.

Site 5: Bessonen-Schaefer

- **Location:** NW ¼ SW ¼ of Section 4, T52N-R33W, Baraga Township, Baraga County, MI
- **Project Acreage:** 17 acres
- **Present Site Conditions:** Fallow farm field, last cropped around 10 years ago, dominated by grasses and other herbaceous plants. Some man-made ditches present for past field drainage.
- **Desired Future Condition:** 17 acres of restored conifer thermal cover with 1 acre hard and soft mast inclusion.

Planting Specifications:

- **Conifers:** 1-2 YO Stock. 805 TPA at a 7'x8' spacing. 12,720 seedlings of White Pine, White Spruce, Black Spruce, and Balsam Fir in equal portions or 3,180 of each species. 80 seedlings of Cedar and Hemlock in equal portions or 40 of each species. 80 Potted Cedar and Hemlock with 4' tall wire cage protection supported with one 6' metal stake.
- **Deciduous:** 1-2' tall containerized potted stock of Burr or Swamp White Oak and Hawthorn or Nannyberry with 4' tall wire fencing supported by one 6' metal stake.
 - 50 – Burr or Swamp White Oak
 - 50 – Hawthorn or Nannyberry

Site 6: Kammers

- **Location:** NE ¼ of Section 8, T42N-R2W, Marquette Township, Mackinac County, MI
- **Project Acreage:** 24.5 Acres
- **Present Site Conditions:** Site was clearcut in 2022 and consisted of lowland mixed, dead ash, maple, aspen, spruce, cedar, and balsam fir. The site is rutted and wet in the North and becomes sandier and drier as you move Southwest. Smaller diameter saplings are present in patches.
- **Desired Future Condition:** Two permanent openings totaling 4.2 acres with a low-density potted oak stock planting and native forbs seeding. 18.2-acre area of a mixed planting of conifers and burr oak to establish a balance of thermal cover and food source. Two small patches of cedar to establish thermal cover and food source. This project will establish permanent future hard mast availability and thermal cover replacement.

Planting Specifications:

- **Conifers:** 800 TPA for 18.2 acres of White Spruce, White Pine, and Balsam Fir and for 2.1 acres of Cedar.
 - 3640 – White Spruce
 - 3640 – White Pine
 - 3640 – Balsam Fir
 - 1680 – Cedar
- **Deciduous:** 800 TPA for 18.2 acres of Burr Oak. 2-4' tall containerized potted stock of Burr or Red Oak of 7 TPA for 4.2 acres with 4' tall wire fencing supported by one 5' metal stake.
 - 3640 – Burr Oak
 - 30 – Burr Oak or Red Oak

Preference will be given to those that can complete the project by November 1, 2025, but it *must* be completed by August 31, 2026.

The contractor will be responsible for providing the planting stock, tree protection supplies, and planting crew. Bids are due no later than 12:00 PM CST on April 1st, 2025 according to the instructions on the bid sheet.

A work plan will be required prior to contract signing. The work plan will include: anticipated planting dates, number of planters, number of planting days and a quality control plan.

A certificate of comprehensive General Liability insurance coverage in the amount of, not less than, one million (\$1,000,000) per occurrence and, not less than, one million (\$1,000,000) aggregate for bodily injury and property damage is required prior to contract signing.

Qualifications must be included with the completed bid form. Any questions regarding the contract should be addressed to the Sustainable Resources Institute at 906-875-3720.

Kristyn Ritchie, Sustainable Resources Institute, Inc.

kristyn@sustainableinc.org

906-875-3720

337 Superior Ave.

Crystal Falls, MI 49920

TREE PLANTING SPECIFICATIONS

Due by: 12:00 PM CST on April 1st, 2025

Only Complete Bids will be Accepted

Individual Site Breakdowns are Included on Pages 2-7

Activity	Total Site Price
Site 1: Nehmer Camp Inc.	
Site 2: Thorbahn	
Site 3: Stegath Tree Farm	
Site 4: Tarsi	
Site 5: Bessonnen-Schaefer	
Site 6: Kammers	
Total Bid Price	

BY 12:00 P.M. CST – APRIL 1ST, 2025 - SEND BIDS TO:

Sustainable Resources Institute, Inc.

Attn: WHG Tree Planting Project

337 Superior Ave

Crystal Falls, MI 49920 or

(Fax) 906.875.3724 or

kristyn@sustainableinc.org

Signed by: _____ Address: _____

Printed Name: _____

Title: _____ Phone: _____

Representing: _____ E-mail: _____

Qualifications and references are required to be submitted with the completed bid form.

SRI reserves the right to reject any and or all bids.

SITE 1: NEHMER CAMP INC.

Due by: 12:00 PM CST on April 1st, 2025

Activity	Est. Units	Unit Price	Total Price
1/8" Black Spruce	2,533		
1/8" White Spruce	2,533		
1/8" White Pine	2,533		
1/8" Balsam Fir	2,533		
1/8" White Cedar	2,533		
1/8" Eastern Hemlock	2,533		
1-2' Potted Red Oak	30		
1-2' Potted Burr Oak	30		
1-2' Potted Crab/Thornapple	40		
4' fencing Or equivalent	100		
Stakes & ties 6' metal stakes or equivalent	100		
Seedling Planting	15,198		
Potted Tree Planting	100		
Fence, stake & tie installation	100		
Total Site 1 Price			

SITE 2: THORBAHN

Due by: 12:00 PM CST on April 1st, 2025

Activity	Est. Units	Unit Price	Total Price
1/8" Black Spruce	3,168		
1/8" White Spruce	3,168		
1/8" White Pine	3,168		
1/8" Red Pine	3,168		
5/8"-3/4" Potted Eastern Hemlock	80		
5/8"-3/4" Potted White Cedar	80		
1-2 YO Potted Red Oak	5		
1-2 YO Potted White Oak	5		
4' fencing Or equivalent	170		
Stakes & ties 6' metal stakes or equivalent	170		
Seedling Planting	12,672		
Potted Tree Planting	170		
Fence, stake & tie installation	170		
Total Site 2 Price			

SITE 3: STEGATH TREE FARM

Due by: 12:00 PM CST on April 1st, 2025

Activity	Est. Units	Unit Price	Total Price
1/8" Black Spruce	1,980		
1/8" White Spruce	1,980		
1/8" White Pine	1,980		
1/8" Red Pine	1,980		
5/8"-3/4" Potted Eastern Hemlock	50		
5/8"-3/4" Potted White Cedar	50		
1-2 YO Potted Red Oak	5		
1-2 YO Potted White Oak	5		
4' fencing Or equivalent	110		
Stakes & ties 6' metal stakes or equivalent	110		
Seedling Planting	7,920		
Potted Tree Planting	110		
Fence, stake & tie installation	110		
Total Site 3 Price			

SITE 4: TARSI

Due by: 12:00 PM CST on April 1st, 2025

Activity	Est. Units	Unit Price	Total Price
1/8" Black Spruce	1,576		
1/8" White Spruce	1,576		
1/8" White Pine	1,576		
1/8" Balsam Fir	1,576		
1/8" White Cedar	1,576		
1/8" Eastern Hemlock	1,576		
Seedling Planting	9,456		
Total Site 4 Price			

SITE 5: BESSONEN-SCHAEFER

Due by: 12:00 PM CST on April 1st, 2025

Activity	Est. Units	Unit Price	Total Price
1/8" Black Spruce	3,180		
1/8" White Spruce	3,180		
1/8" White Pine	3,180		
1/8" Balsam Fir	3,180		
1/8" Eastern Hemlock	40		
1/8" White Cedar	40		
5/8"-3/4" Potted Eastern Hemlock	40		
5/8"-3/4" Potted White Cedar	40		
1-2' Potted Burr/Swamp White Oak	50		
1-2' Potted Hawthorn/Nannyberry	50		
4' fencing Or equivalent	180		
Stakes & ties 6' metal stakes or equivalent	180		
Seedling Planting	12,800		
Potted Tree Planting	180		
Fence, stake & tie installation	180		
Total Site 5 Price			

SITE 6: KAMMERS

Due by: 12:00 PM CST on April 1st, 2025

Activity	Est. Units	Unit Price	Total Price
1/8" Balsam Fir	3,640		
1/8" White Spruce	3,640		
1/8" White Pine	3,640		
1/8" White Cedar	1,680		
1/8" Burr Oak	3,640		
2-4' Potted Burr/Red Oak	30		
4' fencing Or equivalent	30		
Stakes & ties 6' metal stakes or equivalent	30		
Seedling Planting	16,240		
Potted Tree Planting	30		
Fence, stake & tie installation	30		
Site 6 Total Bid Price			