

1 In one or two sentences, what are the short- and long-term goals of the project?

The short term goal of the project is to establish some native plants in a bed on the nursery school playground that currently does not have much in the way of any existing plantings and has definitely not been developed with any intention. The long term goal is to attract butterflies, the monarch butterfly in particular, and other pollinators to the area. The butterfly garden will be used to educate the nursery school community about the beautiful monarch and the importance of all the pollinators that will come to the garden.

2 To what extent will the project achieve one or more of the following objectives:

- **Restore or develop the native plant community:** There is no native plant community in the nursery school playground and so the intention is to remove all the non-native plants from this bed in the playground area and replace them so as to create a native plant community.
- **Provide habitat for native wildlife:**
The plantings in the design are ones that attract butterflies and other pollinators. They were all chosen with that intention and provide both a host and nectar plant habitat.
- **Educate others about the beauty and significance of native ecosystems:** The garden will be used to educate the preschoolers about the beauty and wonders of this native area. They will visit and spend time on the playground and have the ability to observe it everyday. The nursery school has a science program and will use the area in its study units on the monarch, bees and wasps and habitats. Parents who assist in maintaining the garden will also become knowledgeable about its purpose and importance. Lastly, we intend to certify the site with Monarch Watch as an official Monarch Waystation (<http://monarchwatch.org/waystations/>) and post their official sign identifying the site as a Monarch Waystation which will further educate visitors of the needs and importance of providing habitat for monarchs and other pollinators in our ecosystem.

3 What groups and organizations will be involved in developing this project?

I am working with Cindy Collins, owner of Hartke Nursery. Cindy designed the bed and Kate Lovelady, leader of the Ethical Society, submitted the plans to the Ethical Society's Building and Grounds Committee for approval.

What other groups will be involved in maintaining and enjoying it? The nursery school staff and families will maintain and enjoy it. There are members of the Society who will also have an interest in it.

If students or children are involved, what are their ages? The children at the nursery school are 2-1/2 to 6 years old.

4 Who owns the project site? Describe their commitment to the project.

The Ethical Society owns the project site. They have approved the project and are excited about the improvements to the bed with native plantings. They have installed other native plantings on other areas of their property and installed a rain garden to harvest run-off from various areas. I believe they are committed to the project.

5 What other funding will be used for developing and for maintaining this project? The Society will be contributing to the project and I will also be financially contributing to the project. I will reduce the cost by doing much of the preparing, amending and planting myself and with volunteers.

6 How will long-term maintenance be assured? The nursery school has always been champions of the earth and I believe the adults involved with the nursery school; the directors, staff and parents will be dedicated to making sure the bed is well cared for. Hopefully, because they are natives, once they are established, they will not need much maintenance. I think there are members of the Society who will also be invested in the success of the project.

7 Are there any potential negative effects, such as use of pesticides in preparing the site, altering water run-off, etc.? No, none that I am aware will be necessary.

8 Are there any invasive species on or near the site? If so, how do you plan to address them? No, there are no invasive species on or near the site.

9 If applicable, provide a sketch or diagram of the area including scale and direction, before and after completion of this project. See below at the end of this proposal.

10 What is the soil type and sun exposure of your site? How did you choose your plants for this site?

The soil is compact. We plan to amend it because there has been no organic matter replenishing nutrients to the soil. The area does not get full sun and the plants were chosen with soil and sun conditions in mind. They are all native plants that attract wildlife.

11 Please include a preliminary list of species you plan to plant. List scientific and common names, numbers of plants, and an estimate of the cost.

- 1 Aromatic Aster: *Symphotrichum oblongifolium*
- 4 Blue Mist Flower: *Eupatorium coelestrum*
- 12 (or seeded) Black Eyed Susan: *Rudbeckia fulgida*
- 3 Butterfly Weed: *Asclepias tuberosa*
- 5 Rough Blazing Star: *Liatris aspera*
- 3 New Jersey Tea: *Ceanothus americanus*
- 3 Garden Phlox: *Phlox paniculata*
- 6 pk Italian Parsley: *Petroselinum crispum neopolitanum*
- 3 Purple Coneflower: *Echinacea purpurea*
- 9 Wild Sweet William: *Phlox divaricata*
- 3 Pussy Toes: *Antennaria parlinii*
- 10 Rose Verbena: *Glandularia canadensis*
- 12 or seeded Swamp Milkweed: *Asclepias incarnata*

Aster, Black-Eyed Susan, Rough Blazing Star, Garden Phlox, Purple Coneflower and Swamp Milkweed are all \$6.00/plant = \$216

Blue Mist Flower, Butterfly Weed, Wild Sweet William, Pussy Toes and Rose Verbena are all \$7.50/plant = \$217.50

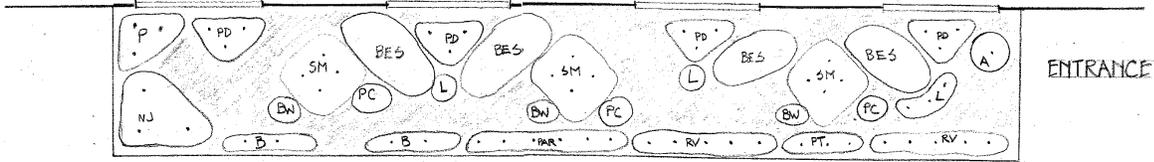
12 What will be your sources for obtaining plants of local genotype? The above quotes are from Hartke Nursery, our local plant nursery in Olivette. I also intend to go to the "Olivette in Bloom", our local gardening group's, native plant sale to see if they have some of the native plantings.

13 What is your planned timetable, including planting date(s)? I hope to be able to remove non-natives, prepare the bed and plant in April and/or May 2017.

KEY

- A - ASTER x 1
- B - BLUE MIST FLOWER x 4
- BES - BLACK-EYED SUSAN x 12 OR SEEDED
- BW - BUTTERFLY WEED x 3
- L - ROUGH BLAZING STAR x 5
- NJ - NEW JERSEY TEA x 3
- P - GARDEN PHLOX x 3
- PAR - ITALIAN PARSLEY x 6 PK.
- PC - PURPLE CONEFLOWER x 3
- PD - WILD SWEET WILLIAM x 9
- PT - PUSSY TOES x 3
- RV - ROSE VERBENA x 10
- SM - SWAMP MILKWEED x 12 OR SEEDED

BUILDING



SIDEWALK

SHADED AREAS ARE TO BE SEEDED WITH A MIXTURE OF CLEOME, COSMOS, PLAINS COREOPSIS AND GRAY-HEAD CONEFLOWER

PLAYGROUND

N
↑

ETHICAL SOCIETY

Designed by 1" - 4'
C. COLLINS

Scale

Hartke Nursery
1030 N. Warson Road
St. Louis, Missouri 63132
997-6679