**ECOS Community Garden Greenhouse Re-Design Project**

**Green Fund Proposal, Winter Term 2018**

1/31/18

Prepared by the Garden Stewards: Ann, Jan, and Raven

**WHAT IS THE GOAL:** Obtain $448.85 in funding by March 17, 2018, to maximize usability, efficiency, and productivity of the ECOS Community Garden Greenhouse, as a year-round nursery and indoor garden space.

**WHAT IS THE PROBLEM:** The tables are too wide and too close together preventing access from every side, and the wooden tops are warped, rotted, and prone to mold and mildew during activities when consistent watering is required. The location and organization of the tables makes weed management difficult.

The garden beds are organized around the inside perimeter, without a buffer from the wall, resulting in exposure to inconsistent temperatures, condensation and moisture, poor air flow, and the ever-invasive crab-grass from the outside.

**WHAT IS THE SOLUTION:** Re-purpose usable wood and purchase additional supplies to re-design the tables, organization, and set-up of the greenhouse to create more efficient workspaces. Volunteers with the skills and tools will re-build the tables, and Garden Stewards will consult with the ECOS garden student coordinator for final design and organization.

**WHAT IS THE PROCESS:**

* Re-design seed starting table dimensions to be 2 feet wide, 8 feet long, and 3.5 feet tall.
* Build 6 tables and place around the perimeter, with 2.5 to 4 feet of walkway space for access to the tables from every side. This configuration leaves ample room to work the inside perimeter of the greenhouse for weed management.
* Table tops will be ½” Galvanized Steel Hardware Cloth to facilitate water drainage from seed starts and transplants. Includes removable plywood boards for workspace versatility. Removable tops and hardware cloth will maximize the life and sanitation of the space.
* Re-locate the garden beds to the center of the greenhouse for more consistent temperatures, better aeration, and maximum gardening space.
* Create usable spaces in the corners of the greenhouse including a ECOS Garden Office space, storage racks for highly used tools, and storage space for cardboard and straw .
* Establish a weed management program.
* Once funds and supplies are secured, the work will be done by a combination of Garden Steward volunteers, ECOS garden student coordinators, and other gardeners.
* Included is a grid-map representation of the ECOS Greenhouse Re-design Project. The actual organization and set up may vary.

**MATERIALS LIST FOR GREENHOUSE SEEDLING TABLE & PLANTING BED PROJECT**

**TABLE LEGS**

* 3 - 4"x 4"x 12' studs, cut 12 for 3 foot high legs

HOME DEPOT $15.63 EACH

**ESTIMATED TOTAL: $46.89**

**TOP & BOTTOM TABLE SUPPORTS**

* 12 - 2"x4"x8' studs

HOME DEPOT $4.67 EACH

**ESTIMATED TOTAL: $56.04**

**PLYWOOD TABLE TOPS  (Removable)**

* 3 full sheets - 4'x8'x 3/4" BCX or CDX plywood (water resistant, rated for siding), cut 2 out, to 2'x8'

HOME DEPOT $31.98 EACH,

**ESTIMATED TOTAL: $95.94**

**SCREWS**

* 3-4 pounds #9 galvanized or coated (Decross) screws (construct/reinforce all tables).

HOME DEPOT APPROXIMATELY $4 PER POUND,

**ESTIMATED TOTAL: $16.00**

* 1-1/2 pounds 2" screws, galvanized or coated (to screw plywood tops on)

HOME DEPOT APPROXIMATELY $4.50 PER POUND

**ESTIMATED TOTAL: $7.00**

**CROSS BRACING**

* 12 - 2x4x8's studs

HOME DEPOT $4.67 EACH

**ESTIMATED TOTAL: $56.04**

**HARDWARE CLOTH**

* 3 rolls (75 fee) - Everbilt 1/2 in. x 2 ft. x 25 ft. 19-Gauge Steel Hardware Cloth

HOME DEPOT, $26.98/roll

**ESTIMATED TOTAL: $80.94**

**GARDEN BED WOOD for two raised 12’x5’x6” garden beds = 68 feet of lumber**

* 9 pieces - Thunderbird Forest 2in x 6in x 8 ft Construction Lumber (102X6-WS096C)

ACE Hardware, $9.99/ea.

**ESTIMATED TOTAL: $90.00**

**ESTIMATED GRAND TOTAL: $448.85**