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What's a Winter Greenhouse? A look inside the student-run Full Circle Greenhouse

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FULL CIRCLE GREENHOUSE

a csb student-led initiative

Origins

- Developed out of Sustainability Alliance, partnered with CSB Sustainability Office
- Desire for student-garden
- From Spring 2011, exploratory committee, suggestions for designs
- Modeled after Northlands Winter Greenhouse



Northlands Winter Greenhouse

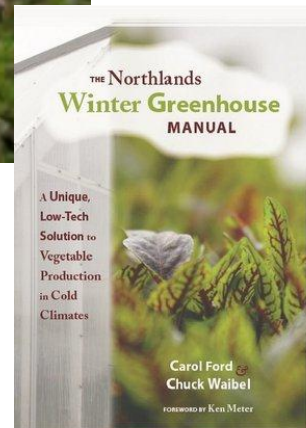


-Carol Ford & Chuck Waibel

-Minnesotan climate: in Milan, MN

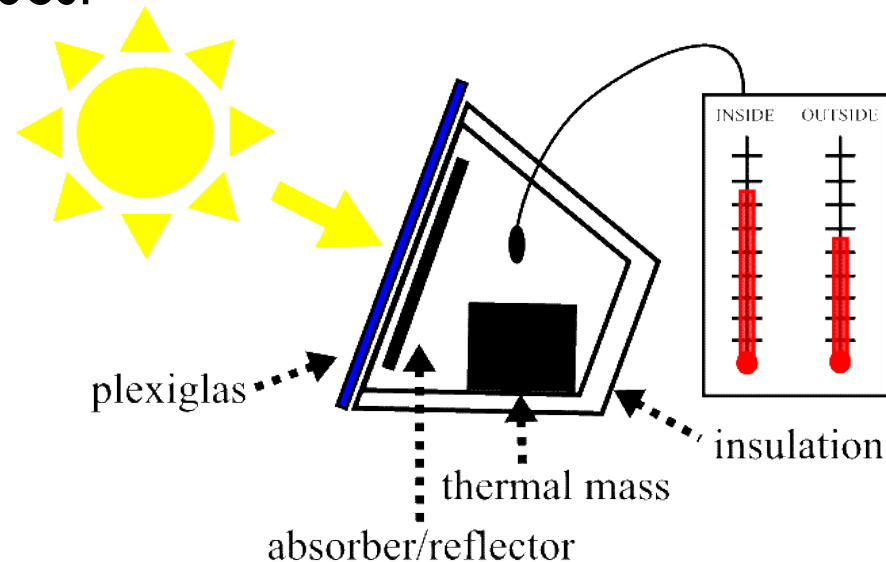
-Design enables winter-plant growth

-Step-by-step guide to materials, design plans



Key Attributes

- Utilizes passive-solar heating via paneling
- Allows student involvement while a summer garden would not be as accessible
- Provides opportunities for experiential learning, community involvement, and a sustainable food-source
- Student compost



Student involvement and partnerships

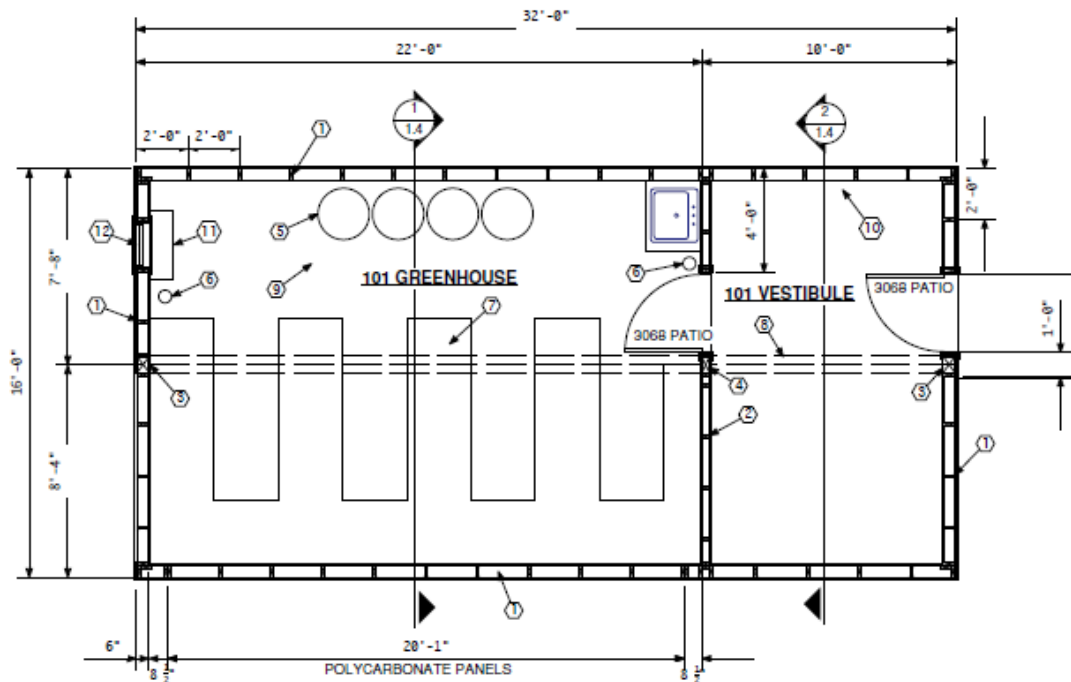


- Students
 - ▣ Student volunteer base and student organizers
- Partnerships
 - ▣ CSB Sustainability Office
 - ▣ CSB Facilities and Grounds
 - ▣ CSB Culinary Services
 - ▣ CSB/SJU community

The Process

- Core group of students
- Funding
- Business plan
- Finding a site
- Building permits/ordinances
- Construction

Design Plan (CAD)



FLOOR PLAN KEYNOTES:

1. 2 X 4 WOOD FRAME @ 24" OC W/ 1/2" PLYWD INTERIOR, 6 MIL VAPOR BARRIER, 6" BATT INSUL, 1/2" PLYWD, TYVEK, VINYL SIDING.
2. 2 X 4 WOOD FRAME @ 16" OC W/ 1/2" PLYWD EA SIDE & 4" BATT INSUL.
3. 6 X 8 WD POST.
4. 4 X 8 WD POST
5. 55 GAL PLASTIC WATER STORAGE (TYP OF 4)
6. 4" PVC PIPE CONN TO 6" BLACK STOVE PIPE.
7. RAISED PLANTER BEDS
8. 8 X 12 RIDGE BEAM
9. TOP SOIL
10. 4" CONC SLAB
11. GAS HEATER
12. EXHAUST FAN W/ LOUVRES.

SECTION 08212 - PANEL WOOD DOORS

- A. PROJECT INCLUDES
1. Panel Wood Doors:
 - a. Exterior stile and rail doors.
- B. QUALITY ASSURANCE
1. Quality Standards for Stock Panel Doors: NWWDA I.S. 6.
- C. PRODUCTS
1. Exterior Stock Panel Doors:
 - a. Quality Standard: NWWDA I.S. 6.
 - b. Design Group: Entrance type, 1-3/4 inch thick.
 - c. Panel Configuration: Flat panels.
 - d. Glazing: Insulating glass.
 - e. Glazing Color: Clear glass.
 - f. Finish: Transparent finish on plain sawn/stock pine faces.

END OF SECTION

2 FLOOR PLAN
1.1 SCALE: 1/4" = 1'-0"



CSB FULL CIRCLE
GREENHOUSE
ST. JOSEPH, MN

FLOOR PLAN

1.1

OCT. 3, 2011

The Progress



Where will the food go?

- Primarily Gorecki
- Earned by student volunteers
- Donations to St. Joe food shelf
- Sell to the co-op
- Potential CSA



Continuing to Grow

- Greenhouse construction
- Part-time volunteers
- Student leadership positions
- Potential community roles with the CSA

