

## PROJECT DOCUMENTATION

**PROJECT:** Grinnell College  
Noyce Science Center Phase II  
Grinnell Iowa

**COMMISSION NO.:** 14233-7  
**DATE:** September 13, 2000

**DESCRIPTION:** A meeting to review the needs of the Greenhouse related to Phase II of the Science Center was held at Grinnell College on September 7, 2000.

**PARTICIPANTS:**

Diane Robertson	Biology
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### ITEM ACTION

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- 1.0 The greenhouse located within the Science Center will be the primary teaching and research greenhouse for the College. A small independent greenhouse is desirable as part of the field station.
- 2.0 Adequate space in the head house and access to loading are essential. If the greenhouse is located above grade, easy access to a freight elevator is required.
- 3.0 Three research spaces @ 300 NSF each with individual environmental control are required. The research spaces should be adjacent to the teaching space and require separate access.
- 4.0 One teaching space of 300 NSF is required.
- 5.0 Greenhouse construction is typically an aluminum frame with glass or plastic sheets forming the exterior enclosure. Glass will be assumed at this time.
- 6.0 The greenhouse will be provided with an automated shading system with individual control of each space within the greenhouse.
- 7.0 Each room within the greenhouse will be provided with an exhaust fan and operable top and side vents. Additional cooling can be provided thru wet cell evaporative cooling if required. The greenhouse can be heated with a series of forced air unit heaters or with fin tube radiation.
- 8.0 The green house will be provided with an independent temperature control system that will coordinate the activities of the heating, cooling, ventilating, shading and lighting systems. Each room will have independent control.
- 9.0 Environmental growth chambers needs to be provided in close proximity to the greenhouse.

ITEM ACTION

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10.0                    The overall size of the greenhouse (not including headhouse or loading) was estimated to be approximately 3500 NSF.

The preceding notes constitute Holabird & Root's understanding of the matters addressed. If your understanding differs, please notify Dennis Vovos within five working days of your receipt of this document.

**HOLABIRD&ROOT LLP**

Dennis Vovos  
Project Manager

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