

# ***AGRIBUSINESS/NATURAL RESOURCES***

February 3, 2014

## **I. PROGRAM REQUIREMENTS**

Refer to the project-specific Schedule of Spaces for student stations, square footage, and for any requirements that may differ from the prototype requirements listed below:

- 1 Laboratory
- 1 Material Storage Room
- 1 Shadehouse of Barn [as selected for specific site]
- 1 Land Laboratory

## **II. PROGRAM FURNITURE AND EQUIPMENT**

Refer to the Furniture and Equipment List for Owner-provided furniture and equipment.

## **III. SPECIAL CONSIDERATIONS**

### **1. Heating/Ventilation/Air Conditioning**

Standard, refer to the General Design Requirements section.

### **2. Acoustical**

Standard, refer to the General Design Requirements section.

### **3. Floor**

Provide sealed concrete floors in the Laboratory and Material Storage Room.

### **4. Walls**

Standard, refer to the General Design Requirements section.

### **5. Ceiling**

Provide painted exposed structure, minimum 12' high, in the Laboratory.  
Provide painted exposed structure in the Material Storage Room.

### **6. Lighting**

Standard, refer to the General Design Requirements section.  
Provide lighting in the Shadehouse.

### **7. Windows**

Provide windows, sill height above six (6) feet, in the Laboratory.

**8. Doors**

Provide a single door into the Laboratory directly from the exterior.  
Provide an overhead roll-up door, 8' wide x 8' high (manually operated), into the Laboratory from the exterior.

**9. Water**

Laboratory

Provide one (1) semi-circular wash station with three (3) faucets.  
Provide one (1) pull-cord emergency shower with eyewash, in accordance with SDHC standards.

Land Laboratory

Provide two (2) hose bibbs.  
Provide #30 sprinkler heads spaced on a 50' x 50' grid.

Shadehouse

Provide two (2) hose bibbs.  
Provide irrigation as required.

**10. Communications**

Provide a clock, intercom speaker and intercom handset in the Laboratory.  
Provide data and AV connections and associated power outlets, in accordance with the General Design Requirements section and SDHC standards.

**11. Electrical**

Laboratory

Provide a master disconnect switch to shut down all receptacles, located on the teaching wall.  
Provide a minimum of three (3) duplex outlets on each wall.  
Provide six (6) ceiling-mounted, drop cord-type outlets, (not the retractable type), located as directed.

Shadehouse

Provide four (4) duplex weatherproof outlets.

**12. Gas and Air**

Not applicable

**13. Safety**

Standard, refer to the General Design Requirements section.

**14. Fencing**

Provide a 6' high chain link fence around the entire Land Laboratory area with a 12' wide rolling gate.

**15. Service Drives**

Not applicable

**16. Parking**

Not applicable

**17. Contractor-Provided Equipment and Casework**

Not applicable

**18. Contractor-Provided Instructional Aids**

Laboratory

Provide a 12' wide x 4' high markerboard with a 4' wide x 4' high tackboard on one (1) side, bottom to be mounted 36" above the floor.

Install an owner-provided projector and mounting bracket, centered on the wall over the markerboard.

**19. Other Considerations**

Provide a three-sided, 2-compartment mulch bin, approximately 6' wide x 30' long x 4' high, located near the Shadehouse.

Show a projected location for a future 30' x 15' three-sided tractor storage building to be located near the Shadehouse (if applicable).

Barn requirements to be determined.

# SPACE RELATIONSHIPS

