

REQUEST FOR PROPOSAL

Project Title: Cooley Laboratory Renovation
Location: Montana State University

PPA No.: 10-0023
RFP No.: 28Revised
Date: 01/25/12

To: Dick Anderson Construction
4498 Jackrabbit Lane
Bozeman, MT 59718

Attention: Platisha

From: Cecilia Vaniman, Project Manager
Cooley Lab Renovation
Montana State University

Attention: _____

In order to expedite the Work and avoid or minimize delays in the Work the following proposal is requested. Please return a response by: 02/10/12

Date Sent: 01/25/12
Date Received: _____

RFP Conference Rm 212 Additions

Reference Drawings: A1.5

Reference Specifications: N/A

- Provide (2) two 12' X 4' Markerboards.
- Provide (1) Data and (1)Power (110V) Outlets for Video Monitor location noted on attached drawing
- Provide Blocking as required for Video Monitor (approx. weight 100 lbs.)
- Provide 3/4" conduit & J-box as shown on attached drawing.
- Provide Solar Shade at location noted on Drawing See Below.

SWF Contract

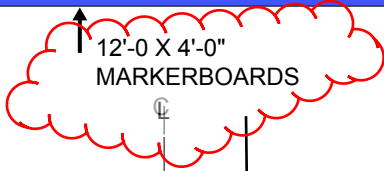
- Manual Shade with chain operation
- Without Blackout side rails
- Without fascia. Mount at the higher portion of the window, behind framed down area. This would be on the inside side of the blinds.
- Fabric: ShearWeave 4800 Color would be one of the following, which samples are needed: Chalk, Alabaster, Pearl or Sand

Attachment: Drawing rfp28-1 - - Visual Display Surfaces

This RFP is for pricing purposes only. The contractor shall not proceed with the scope of work described within until pricing is approved by the owner in writing.

Distribution: Owner Architect Engineer
 Agency Contractor Other

PROVIDE NEW POWER AND DATA @ 76" A.F.F



PROVIDE ADDITIONAL J-BOX UNDER SLAB WITH CONDUIT THRU FLOOR & 3/4" CONDUIT TO LCD MONITOR LOCATION

NEW LCD MONITOR CENTER @ 65" A.F.F.

3/4" CONDUIT THRU WALL @ 8'-6" A.F.F.

PROVIDE BLOCKING FOR A MINIMUM OF 32" BLOCKING TO BE 8" WIDE LOCATED AT CENTER OF WALL 65" A.F.F

NEW SOLAR SHADES

Division 10 - RFP 28 Visual Display Surfaces

PART 1- GENERAL

1.01 DESCRIPTION OF WORK

- A. Section Includes:
 - 1. Porcelain Enamel Steel Markerboards
 - 3. Field-Applied Trim Wood - MAPLE

1.02 REFERENCED STANDARDS

- A. American Society for Testing Materials 1. ASTM E84 Standard Test Method for Surface Burning Characteristics for Building Materials
- B. Porcelain Enamel Institute
 - 1. PEI-1002 Manual and Performance Specifications for Porcelain Enamel Writing Surfaces
- C. GREENGUARD Environmental Institute
 - 1. GREENGUARD Indoor Air Quality Certified
 - 2. GREENGUARD Children and Schools™ Indoor Air Quality Certified

1.03 SUBMITTALS

- A. Shop Drawings: Provide shop drawings for each type of visual display board required.
- B. Product Data: Provide technical data for materials specified. Include Material Safety Data Sheets, when applicable.
- C. Samples and color charts: Provide Manufacturer's color charts and composition samples of face, core, backing and trim to illustrate finish, color and texture, where required.
- D. Manufacturer's Instructions: Provide Manufacturer's installation instructions.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Manufacturer shall be a firm engaged in the manufacture of visual display boards in the United States.
 - 2. Manufacturer shall have a minimum of 5 years experience in the manufacture of visual display boards.
- B. Regulatory Requirements: Conforms to applicable code for flame/smoke rating in tackboards in accordance with ASTM E84.
- C. Product Certifications: Provide GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children and Schools™ certificates for markerboards, as applicable.
- D. Operation and Maintenance: Include data on regular cleaning, stain removal, and precautions.

1.05 PROJECT CONDITIONS

- A. Field measure prior to preparation of shop drawings and fabrication to ensure proper fit.
- B. Comply with manufacturer's recommendations for acclimating area for interior moisture and temperature to approximate normal occupied conditions.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Schedule delivery of visual display boards with spaces sufficiently complete so that visual display boards can be installed upon delivery.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store materials protected from exposure to harmful weather conditions and at temperatures and humidity conditions recommended by manufacturer.

1.07 WARRANTY

- A. Submit a "Life of the Building" warranty, stating that under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations, porcelain enamel steel markerboard and chalkboard writing surfaces are guaranteed for the Life of the Building. Guarantee covers replacement of defective boards but does not include cost of removal or reinstallation.

- B. Submit a standard warranty, stating that when installed in accordance with manufacturer's instructions and recommendations, . Guarantee does not cover normal wear and tear, improper handling, any misuse, or any defects caused by vandalism or subsequent abuse. Guarantee covers replacement of defective material but does not include cost of removal or reinstallation.
- C. Writing Surface Warranty Period: (Specify term) 5 years commencing on Date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Visual Display Board Manufacturer: Claridge Products and Equipment, Inc., Harrison, Arkansas

2.02 MATERIALS FOR MARKERBOARD AND CHALKBOARD PANELS

- A. Writing Surface Face Sheet — Manufactured in accordance with Porcelain Enamel Institute's specification.

- 1. Shall be enameling grade cold rolled steel manufactured from a minimum of 30 percent post-consumer and post-industrial waste.
- 2. Enameling grade steel shall be coated with LCS-I1 Porcelain Enamel by Claridge Products and Equipment.
 - a. 3-Coat process shall include:
 - i. Bottom Ground Coat — 1.5 to 2.2 mils
 - ii. Top Ground Coat — 2.0 to 2.8 mils
 - iii. Top Cover (Color) Coat — 3.0 to 4.0 mils
- 3. Firing Temperature: Enamel shall be fired at lowest possible temperatures to reduce steel and porcelain stresses and achieve superior enamel and hardness.
- 4. Color: As selected by owner from manufacturer's standards. Color charts furnished on request. NOTE: LCS-11 No. 75 Low Gloss White Markerboard writing surface can be used as a projection surface.

- B. Writing Surface Core

- 1. 7/16" Medium Density Fiberboard (MDF) composed of approximately 90% post-industrial waste.
- 2. 7/16" Duracore manufactured from 100% reclaimed or recycled wood fiber, including 3% post-consumer wood fiber. Duracore does not contain added urea-formaldehyde resins.

- C. Writing Surface Backing

- 1. Moisture Barrier Back
- 2. Foil Back
- 3. Aluminum Sheet Back
- 4. Steel Back

PART 3- EXECUTION

3.01 PROJECT CONDITIONS

- A. Verify before installation that interior moisture and temperature approximate normal occupied conditions.
- B. Verify that wall surfaces are true and plumb and are prepared and ready to receive boards.

3.02 INSTALLATION

- A. Deliver factory built units completely assembled and of dimensions shown in details and in accordance with manufacturer's shop drawings as approved by the architect.
- B. Follow manufacturer's instructions for storage and handling of units before installation.
- C. Do not install boards on damp walls or in damp and humid weather without heat in the building.
- D. Install level and plumb, keeping perimeter trim straight in accordance with manufacturer's recommendations.

3.03 ADJUST AND CLEAN

- A. Verify that all accessories are installed as required for each unit.
- B. At completion of work, clean surfaces and trim in accordance with manufacturer's recommendations, leaving all materials ready for use.

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Furnish and install Solar Shades provided by Springs Window Fashions, LLC, 7549 Graber Road, Middleton, WI 53562 in accordance with specifications, drawings and contract documents.

1.02 SUBMITTALS

- A. Manufacturer's complete CSI 3-part specification sheet.

~~B. Product Sample: Submit working hand sample or mock up shade as required.~~

- C. Color Sample: Submit two 4" x 6" samples of shade fabric material indicating color and dimensions.

1.03 DELIVERY, STORAGE AND HANDLING

- A. Product to be delivered to jobsite in manufacturer's original packaging.
- B. Products to be handled and stored to prevent damage to materials, finishes and operating mechanisms. Store in a clean, dry area, laid flat to prevent sagging and twisting of packaging.

1.04 PROJECT

- A. Building shall be enclosed; and windows, frames and sills shall be installed and glazed.
- B. Wet work shall be complete and dry.
- C. Ceilings, window pockets, electrical and mechanical work above window covering shall be complete.
- D. Electrical power (110 volt AC) shall be available for installer's tools within 500 feet of product installation areas.

1.05 QUALITY ASSURANCE

- A. Installer shall be qualified to install specified products by prior experience and approved by Springs Window Fashions LLC (SWF). Installer shall be responsible for acceptable installation in accordance with instructions published by SWF.

1.06 LIMITED LIFETIME WARRANTY

- A. Springs Window Fashions LLC (SWF) warrants the product against original defects in materials or workmanship for the life of the shade not to exceed 25 years from the date of shipment. SWF does not warrant damage due to accidents, misuse, abuse, improper installation, alterations or improper cleaning. Detailed specifics of the warranty are available upon request.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Springs Window Fashions LLC or architect approved equal.

~~B. Substitution Request: Submit for approval under provisions of section 01600.~~

2.02 SOLAR SHADES

- A. Product: SWFcontract manual solar shades

- a. Solar shade fabric shall be flame retardant, fade and stain resistant, anti-static, anti-microbial and pass NFPA 701-1999 FR and ASTM-G21 and G22. Shades with railroaded fabric will have heat-welded seams. Fabric shall be selected by architect from SWFcontract fabric collection.

1. solar fabrics ranging from 1% to 10% openness
2. blackout fabrics
3. GREENGUARD® certified and PVC-free fabrics

- b. Roller tube shall be extruded aluminum engineered with a channel to accept fabric spline. The tube size will be determined by the manufacturer based on window size and fabric selection.

- c. Clutch system shall be made of glass-reinforced, polyester thermopolymer (PBT) for wear resistance, smooth operation and corrosion resistance. The clutch is comprised of multi-banded, steel springs that lock the shade in any position when operating the control loop. The clutch mechanism is bi-directional and never requires adjustment or lubrication.

- d. Control loop shall be a #10 stainless steel bead chain. Bead stops attached to the chain protect the shade from over rotation. Optional plastic bead chain is available in vanilla and black.

- e. Idler end shall be made of high strength, glass-reinforced, polyester thermopolymer (PBT) for wear resistance, smooth operation and corrosion resistance.

- f. Lift assist system shall be a heavy-duty torsion spring located inside the roller tube. The mechanism reduces the pull force allowing easy lifting of larger shades.

- g. Spline system shall consist of a PVC spline heat-welded to the shade fabric and inserted into a channel on the roller tube. The spline system allows for adjustability on-site and ease in changing fabric panels in the field.

- h. Hem bar shall be an aluminum extrusion enclosed in a fabric hem pocket with heat-welded seams and ends. Optional fabric wrapped hem bar.

- i. Battens shall be enclosed in a heat-welded pocket providing additional stabilizing on large shades. Batten placement will be determined by manufacturer based on window size and fabric selection.
- j. Installation brackets shall be .125" thick steel and can accommodate overhead, side and face mounting. Optional dual shade brackets shall hold two shades in one bracket assembly. Coupled shades shall be connected with a linking bracket mechanism.

2.03 OPTIONAL ACCESSORIES

- a. Fascia panel shall be either 3", 4" or 7.625" dual shade snap-on design and made of .062" extruded 6063 T-5 aluminum alloy with a powder-coated finish. Brackets shall be universal and painted to match the fascia panels. Fascia is available in white, vanilla, clear anodized, bronze or black.
- b. Shade pocket shall be 4.75" x 5" powder-coated extruded 6065-aluminum alloy or 7.5" x 8" powder-coated steel. SWF shall provide appropriate dimensional pocket as necessary to enclose roller tube and fabric. 4.75" x 5" pockets available in white, clear anodized or bronze anodized and 7.5" x 8" pocket available in white only.
- c. Closure plate shall be exposed, flush mounted, powder-coated extruded 6065-aluminum alloy designed to provide access to shades when recessed in ceiling. Plates are available in 2", 3" or 5" with or without a tile support for acoustical tiles. Closure plates available in white, clear anodized or bronze anodized.
- d. Side, sill and/or center channel shall be a two-piece design and made of powder-coated extruded 6065-aluminum including synthetic pile inserts to eliminate light leakage. Side and sill channel measures 2" x 1". A center channel measuring 4" x 1" is provided for coupled blackout shades. Side, sill and center channels available in white, clear anodized or bronze.

2.04 FABRICATION

- A. Shades shall be fabricated according to specifications and accurate to tolerance established by SWF engineering standards.
- B. Fabricate shades to hang flat without buckling or distortion.

Part 3 – EXECUTION

3.01 INSPECTION

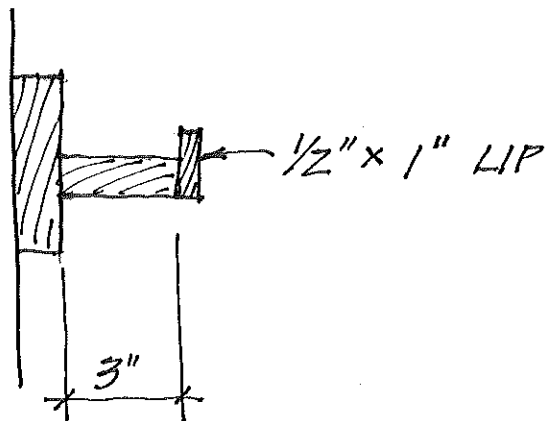
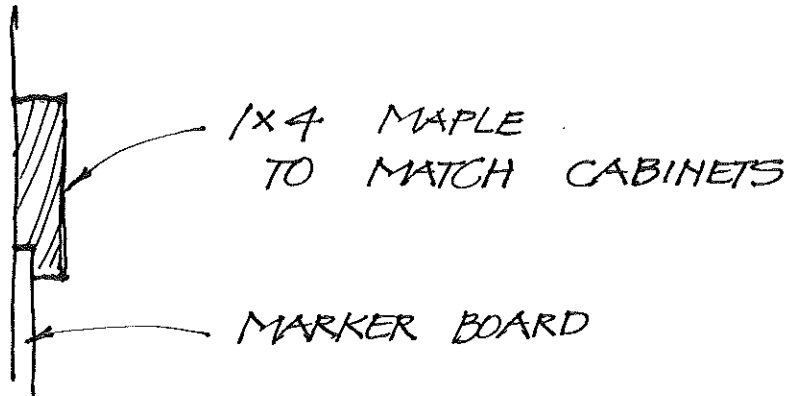
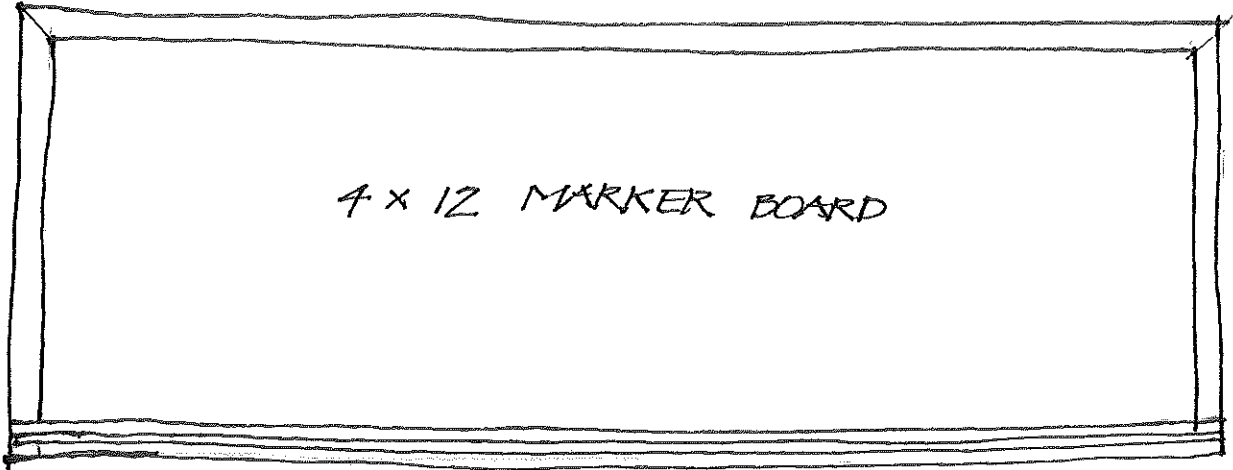
- A. Installer shall be responsible for inspection of jobsite, approval of mounting surfaces, verification of field measurements and installation conditions. Installation shall commence when satisfactory conditions are met.

3.02 INSTALLATION

- A. Install shades in accordance with manufacturer's instructions including recommended support brackets and fasteners.
- B. Install shades with adequate clearance to permit smooth operation of the shades. Installer will demonstrate shades to be in smooth, uniform working order.

3.03 MAINTENANCE AND CLEANING

- A. Shades may be vacuumed with a soft brush attachment or cleaned with mild soap and water only. Do not use cleaning methods involving heat, bleach, abrasives, or solvents. Use of these methods will void the warranty.



CONFERENCE ROOM 212
COOLEY LAB

CRV 1-26-2012