ADDENDUM NO. 1

Contract # UMA17-05
Speedtype # 156090
Title: Southwest Tower Entry Vestibule and Lowrise Lounge

The attention of bidders submitting proposals for the above subject project is called to the following addendum to the specifications and drawings. The items set forth herein, whether of omission, addition, substitution, or classifications are all to be included in and form a part of the proposal submitted.

The number of this Addendum (1) must be entered in the appropriate space “B. This bid includes addenda numbered (list all addenda)_____” found on Page 51 – Form For General Bid, and/or Page 59 - Form for Sub-Bid “B. This sub-bid includes addenda numbered (list all addenda)_____.

RECEIPT OF THIS ADDENDUM SHALL BE ACKNOWLEDGED BY INSERTING ITS NUMBER IN THE SPACE PROVIDED ON THE BID FORM.

DIVISION 1

ITEM D-1 Section 011000 Summary of Work, Article 1.5 General Contractor’s Qualification; delete Paragraph A and replace with:

A. The General Contractor must be currently certified by the Division of Capital Asset Management and Maintenance (DCAMM) for General Building Construction.

ITEM D-2 Section 015000 Construction Facilities and Temporary Controls, Article 1.13 Enclosures; add Paragraph B:

B. General Contractor shall submit a shop drawing indicating proposed work area enclosure for all vestibules for approval by Owner. Enclosure shall not obstruct building egress.

ITEM D-3 Section 015000 Construction Facilities and Temporary Controls, Article 1.14 Site Enclosure Fence; add Paragraphs C and D:

C. Contractor will be provided with a small lay-down area for a dumpster for the disposal of demolition and hazardous materials. This area shall be fenced in and secured. Lay-down area size and location will be determined by Owner.

D. All fencing provided for the enclosure of storage areas and dumpsters shall be portable type.
ITEM D-4  
Section 015000 Construction Facilities and Temporary Controls, Article 1.17 Field Offices; delete Paragraph A and replace with:

A. The General Contractor will be provided with a temporary office facility within the building at a location determined by Owner.
TECHNICAL SPECIFICATIONS

ITEM T-1 Section 020800 Asbestos Abatement, Article 1.04 Description of Work, Paragraph C, Sub-paragraph 8, Sub-paragraph c; delete second sentence and replace with:

As part of the work the Asbestos Abatement Contractor shall also prepare these surfaces for application of an encapsulant (Sika Coating) by the Painting Contractor.

QUESTIONS AND ANSWERS

The following written questions were directed to the University of Massachusetts or the Designer:

QUESTION #1 Would you consider making the DCAMM qualification General Contracting along with Painting?
Answer: Please see ITEM D-1 of this addendum.

QUESTION #2 I don’t see a section for resilient flooring. I can only find base and accessories in the specs under 096550, am I missing it?
Answer: There is no new resilient flooring on the project.

QUESTION #3 Please clarify whether the door frames in the lounges are scheduled for field paint on both sides or just the interior lounge side.
Answer: Interior lounge side only.

QUESTION #4 Please clarify whether the concrete floors in the vestibules are scheduled for new clear sealer to be applied by the FSB for painting.
Answer: Concrete slab under entrance mat will be sealed, application by Painting Contractor.

QUESTION #5 The interior paint schedule listed in Section 099001, 3.7, does not seem to apply to the scope of this project. Please clarify what product is the basis of design for the “specialty coatings” scheduled for vestibule walls and ceilings.
Answer: See revised Section 099001 Painting attached to this addendum.

QUESTION #6 Regarding the interior paint schedule listed in Section 099001, 3.7, what product is the basis of design for the “masonry sealer on brick masonry vestibule walls”?
Answer: See revised Section 099001 Painting attached to this addendum.

QUESTION #7 Regarding the interior paint schedule listed in Section 099001, 3.7, what product is the basis of design for GWB walls/ceilings?
Answer: See revised Section 099001 Painting attached to this addendum.
QUESTION #8  Regarding the interior paint schedule listed in Section 099001, 3.7, what product is the basis of design for metal door frames and metal radiator covers?

Answer: See revised Section 099001 Painting attached to this addendum.

QUESTION #9  Regarding the interior paint schedule listed in Section 099001, 3.7, what product is the basis of design for wood window trims?

Answer: See revised Section 099001 Painting attached to this addendum.

QUESTION #10 Please confirm there are no wood wardrobes as part of this project.

Answer: That is correct. There are no wood wardrobes as part of this project.

QUESTION #11 Please confirm all finish paint will be supplied by the University.

Answer: Finish paint will be provided by the University. Refer to paint schedule Article 3.7 in Section 099001. Painting Contractor is responsible for all primers associated with spot priming or priming substrates to be painted.

QUESTION #12 The type 1 aluminum doors shown on A601 are shown with a half lite, but aluminum doors are only made with a full lite, as door type 2 ad EXDR 5 is shown, or as flush. Please advise whether these doors are meant to be full lite aluminum, flush aluminum, or FRP doors with a half lite as drawn.

Answer: All vestibule doors are Flushline FRP doors as detailed. Balcony access service doors are medium stile aluminum doors.

QUESTION #13 Who is responsible for applying the "encapsulant" described under Asbestos Abatement 020800? The spec says "General Contractor and/or Filed Sub Bid Painting Contractor". Please specify the specific product to be used.

Answer: Painting Contractor will be responsible for the application of encapsulant products for concrete and brick substrates.

QUESTION #14 Who is responsible for preparing the brick vestibule for "sealant" listed under Painting 099001, Pg 2, 1.2, A, 3? 

Answer: Abatement Contractor.

QUESTION #15 Who is responsible for "broadcasting aggregate across wall surface" and why?

Answer: Painting Contractor shall apply encapsulant coating along with broad cast aggregate as recommended by manufacturer. Use 000 mesh oven dried silica sand to facilitate adhesion of finish top coat paint.

QUESTION #16 Will UMASS be preparing all walls and ceilings in the lounges to be ready for paint?

Answer: See revised Section 099001 Painting attached to this addendum.
QUESTION #17  Where is lead paint present?
Answer:  All existing painted surfaces contain lead, cadmium, and chromium.

QUESTION #18  Do all of the radiation covers in lounges need to be painted in the field including new ones?
Answer:  Only previously painted wood radiation covers will be painted.

QUESTION #19  Does the University supply the finish paint for all walls, ceilings, doors, and frames?
Answer:  Refer to Paint Schedule Article 3.7 in Section 099001.

QUESTION #20  Section 099001, Pg 2, 1.2, A. 6 calls for painting recreation rooms. Where are these rooms?
Answer:  Painting recreation rooms is not part of this project. See revised Section 099001 attached to this addendum.

QUESTION #21  Why are wardrobes listed in Section 099001, Pg 12, 3.7, D? They are not shown on the plans.
Answer:  Wardrobes are not part of this project. See revised Section 099001 attached to this addendum.

QUESTION #22  Section 087100, 3.2.1 Confirm if the existing wiring and conduits are of the correct sizes.
Answer:  Existing wiring is intended to be reused for all existing electronic devices being reused and reinstalled.

QUESTION #23  Section 260000, 2.3.1 No wiring is shown. Verify that wiring, if any, is needed.
Answer:  Refer to Drawing E6.01 for new wiring.

QUESTION #24  Section 260000, 2.11.C Verify what type of cables are required for each device. New wires installed or reuse the existing?
Answer:  Reuse existing wiring.

QUESTION #25  Drawing E-1.04 It appears entrance 1991 is at a new location. Verify what raceways and wiring are existing and will be need to be extended to that new location. Because of the age of the existing install some of the wiremold units may be disconnected.
Answer:  Entrance is not at a new location with respect to device removal and reinstallation.

QUESTION #26  Drawing E-0.01 General Notes: 4, 5, 6, 10 in the circle, verify all equipment is by the GC, raceway and wiring is existing.
Answer:  Cannot reference what equipment is referenced. Raceway and wiring are existing.
QUESTION #27  Drawing E-0.01 General Notes: 10 in the circle, verify who owns wiring for the HVAC controls.
Answer: HVAC.

QUESTION #28  Drawing E-0.01 General Notes: 13 in the circle, verify if existing raceways are to be reused.
Answer: Yes, existing raceways are to be reused.

QUESTION #29  Drawing E-0.01 General Notes: 23 in the circle, verify wiring required.
Answer: Revise existing wiring.

QUESTION #30  Drawing E-1.01, E-1.02, E-1.03, E-1.04 verify where 4 in the circle is indicated there is a basement below where future readers are shown.
Answer: No future readers are in the basement.

Question #31  Drawing E-1.01, E-1.02, E-1.03, E-1.04 where 5 in the circle is indicated, with no wiring diagrams how do we verify conductor fill?
Answer: Circle 5 refers to future devices not in this contract.

QUESTION #32  Drawing E-1.06 verify what type of GE breaker is in each building.
Answer: Bolt-on.

QUESTION #33  Drawing E-1.06 verify wall construction hat has to be cored for the raceways to get to VP1 (concrete, block, etc. and thickness).
Answer: Concrete wall is assumed to be 12 inches.

QUESTION #34  Drawing E-1.06 Is pathway to VP1 through hung ceilings, exposed concrete ceiling?
Answer: Exposed concrete ceiling is relatively un-congested.

QUESTION #35  Drawing E-1.06 is that pathway congested with other items?
Answer: Pathway is relatively un-congested.

QUESTION #36  Drawing E-1.06 can EMT be used once in are into the basement?
Answer: Rigid galvanized steel conduit required over ductwork and through floor. EMT is acceptable over clear of the new ductwork and floor sleeve.

QUESTION #37  Section 087100, 1.4, verify existing wiring and raceways are correct and sized for the devices to be re-installed or added as wiring diagrams will not be available until the equipment shop drawings are approved.
Answer: Existing wiring and raceways are intended to be revised for all existing electronic devices being reused and reinstalled.
QUESTION #38  Are any of the existing access control devices integrated to the fire alarm system?
Answer:  Not to our knowledge relative to those devices included in this project.

Question #39  Shall plan E-1.06 be assumed typical layout for all basements?
Answer:  Yes.

QUESTION #40  Shall it be allowed to splice wiring for extension of existing access controls?
Answer:  No.

QUESTION #41  What is the scope of work for “Future Door Opener”?
Answer:  Not in this contract.

ATTACHMENTS

Attached to this Addendum No. 1 is the following item which hereby becomes a part of the Contract Documents as it was originally bound therein:

ITEM A-1  Section 099001 Painting
ITEM A-2  Sketch SKA-01 Revised Interior Side Light Jamb - Detail 11
ITEM A-3  Sketch SKA-02 Revised Interior Side Light Jamb - Detail 14
ITEM A-4  ATC Group Services Addendum

End of Addendum #_1_

By:  John O. Martin
Director of Procurement
SECTION 099001
PAINTING
(Filed Sub-Bid Required)

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

A. Attention is directed to the PROCUREMENT AND CONTRACTING REQUIREMENTS including AGREEMENT and CONDITIONS OF THE CONTRACT and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of the Section of the Specifications.

B. Time, Manner and Requirements for Submitting Trade Bids:

1. Sub-bids for work under this Section shall be for the complete work and shall be filed in a sealed envelope with the Awarding Authority, the University of Massachusetts Amherst (UMA), at a time and place as stipulated in the "NOTICE TO CONTRACTORS".

The following should appear on the upper left hand corner of the envelope:

Name of Sub-Bidder: ______________________________

(In Insert Name of Sub-Bidder)

UMA Contract Name: UNIVERSITY OF MASSACHUSETTS AMHERST
SOUTHWEST TOWER ENTRY VESTIBULE AND LOWRISE LOUNGE IMPROVEMENTS

UMA Contract No: UMA 17-05

UMA Project No: 15-1004683

Sub-Bid for Section: SECTION 099001 - PAINTING

2. Each sub-bid submitted for work under this Section shall be on forms furnished by the Awarding Authority as required by Section 44F of Chapter 149 of the General Laws, as amended.

3. Sub-bids filed with Awarding Authority shall be accompanied by BID BOND or CASH or CERTIFIED CHECK or TREASURER'S CHECK or CASHIER'S CHECK issued by a responsible bank or trust company payable to the Commonwealth of Massachusetts in the amount of five percent of the sub-bid. A sub-bid accompanied by any other form of bid deposit than those specified will be rejected.

C. Sub Sub-Bid Requirements

1. Sub-bidder's attention is directed to Massachusetts G.L. Chapter 149 Section 44F, as amended, which provides in part as follows:
2. Each sub-bidder shall list in Paragraph E of the "Form for Sub-bid" the name and bid price of each person, firm, or corporation performing each class of work or part thereof for which the Section of the Specifications for that sub trade requires such listing, provided that, in the absence of a contrary provision in the Specifications, any sub-bidder may, without listing any bid price, list his own name or part thereof and perform that work with persons on his own payroll, if such sub-bidders, after sub-bid openings, shows to the satisfaction of the Awarding Authority that he does customarily perform such class of work with persons on his own payroll and is qualified to do so. This Section of the Specification requires that the following classes of work shall be listed in Paragraph E under the conditions indicated herein.

CLASSES OF WORK

[Not Applicable / No Sub Sub-Bids Required]

3. Reference Drawings: The Work of this Filed Sub-Bid is shown on the following Contract Drawings:

b. Mechanical (M-Series) Drawings: Drawings M1.01 through M1.02
c. Electrical (E-Series) Drawings: Drawings E1.01 through E1.06

1.2 DESCRIPTION OF WORK

A. Work Included: Provide all labor, materials, and equipment necessary to complete the work of this Section, including but not limited to the following:

1. Surface preparation, priming, and finish coats as specified in this Section.
2. Application of specialty coatings on concrete vestibule walls typical at high-rise dormitory vestibules.
3. Application of specialty coating on brick masonry vestibule walls at high-rise dormitory John Quincy Adams Building #355.
4. Application of specialty coating on concrete and or masonry walls at jamb locations at student lounge storefront infill.
5. Application of concrete sealer at vestibule mat recess.
6. Spot Priming and finish coats on all student lounge walls and ceilings. Surface preparation other than all-purpose grease cutter and cleaning shall be by University.
8. Surface preparation, priming, and finish coats on steel fabricated door bumpers and card access control device enclosures. Typical at all high-rise dormitory vestibules.
9. Priming and finish coats on all conduits and pipes to match adjacent wall or ceiling color.
10. Priming and finish coats on all previously painted radiation covers and window stools.
11. Various and miscellaneous attachments to all surfaces described above.
12. The management of lead based paint on all surfaces to be refinished.
B. Items To Be Installed Only: Finish paint shall be supplied by the University as noted in Paint Schedule Article 3.7.

C. Items To Be Furnished Only: None.

D. Related Work: The following items are not included in this Section and will be performed under the designated Sections:

1. Division 1 Section Cutting and Patching for cutting and patching.
2. Division 2 Section Selective Demolition for removal of existing wall base.
3. Division 3 Concrete Repair for patching of concrete surfaces which have spalled, chipped, or broken as a result of the demolition work.
4. Division 6 Section Finish Carpentry for removal and replacement of painted wood valance in student lounges.
5. Division 9 Section Resilient Wall Base for installation of new wall base.
6. Division 23 Section HVAC for factory finish and prime coats on HVAC fixtures and equipment.
7. Division 26 Electrical for factory finish and prime coats on electrical fixtures and equipment.

E. Perform work and provide material and equipment as shown on Drawings and as specified or indicated in this Section of the Specifications. Completely coordinate work of this Section with work of other trades and provide a complete finished installation.

F. Prepare and paint exposed surfaces, except where the paint schedules indicate that a surface or material is not to be painted or is to remain natural. If the paint schedules do not specifically mention an item or a surface, paint the item or surface the same as similar adjacent materials or surfaces whether or not schedules indicate.

G. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.

1.3 UNIT PRICES

A. Unit Prices: None

1.4 ALTERNATES

A. Alternates: None

1.5 SUBMITTALS

A. Refer to Division 01 Section Submittals for administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other miscellaneous submittals.

B. Product Data: Manufacturer's technical information, label analysis, and application instructions for each material proposed for use.
C. Painting Schedule: List each material to be finished and cross-reference, by name, the submitted manufacturer’s specific coating system - primer, finish, etc., preparation and application. Identify each coating material by the manufacturer’s catalog number and general classification.

D. Certification by the manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).

E. Samples for Verification: Colors used shall be to match existing colors. Obtain from the University the color used and provide for each color and material to be applied. Samples, where applicable, shall have texture to simulate actual substrate.

1. Provide stepped Samples, defining each separate coat, including fillers and primers. Use representative colors when preparing Samples for review. Resubmit until required sheen, color, and texture are achieved.
2. Provide a list of materials and applications for each coat of each sample. Label each sample for location and application.
3. Submit Samples on the following substrates for the Architect’s review of color and texture only:
   a. Field sample on the existing door and frame
   b. Field sample on the student lounge window valance

F. Mockup: Finish one typical window valance and recessed vertical blind track furnished under Section 062000 Finish Carpentry.

G. Qualification Data: For firms and persons specified in the “Quality Assurance” Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

1.6 DEFINITIONS

A. "Paint" includes coating systems materials, primers, and other applied materials whether used as prime, intermediate, or finish coats, including the 2 specified finish coats over paint manufacturer’s recommended, highest quality, prime coat and paint manufacturer’s recommended preparation of the surface to be painted.

B. Standard coating terms defined in ASTM D 16 apply to this Section.

1. Flat refers to a lusterless or matte finish with a gloss range below 15 when measured at an 85-degree meter.
2. Eggshell refers to low-sheen finish with a gloss range between 20 and 35 when measured at a 60-degree meter.
3. Semigloss refers to medium-sheen finish with a gloss range between 35 and 70 when measured at a 60-degree meter.
4. Full gloss refers to high-sheen finish with a gloss range more than 70 when measured at a 60-degree meter.
1.7 SUBMITTALS

A. Product Data: Manufacturer's technical information, label analysis, and application instructions for each material proposed for use.

B. Painting Schedule: List each material to be finished and cross-reference, by name, the submitted manufacturer's specific coating system - primer, finish, etc., preparation and application. Identify each coating material by the manufacturer's catalog number and general classification.

C. Certification by the manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).

D. Samples for Verification: Colors used shall be to match existing colors. Obtain from the University the color used and provide for each color and material to be applied. Samples, where applicable, shall have texture to simulate actual substrate.

   1. Provide stepped Samples, defining each separate coat, including fillers and primers. Use representative colors when preparing Samples for review. Resubmit until required sheen, color, and texture are achieved.

   2. Provide a list of materials and applications for each coat of each sample. Label each sample for location and application.

E. Qualification Data: For firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

1.8 QUALITY ASSURANCE

A. Paint products shall be low odor, low or zero VOC coating with anti-microbial properties.

B. Applicator Qualifications: Engage an experienced applicator who has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance.

C. Source Limitations: Obtain primers and undercoat materials for each coating system from the same manufacturer as the finish coats.

D. After initial finish systems are completed and accepted, the Architect will use the room or surface to evaluate coating systems of a similar nature. Final approval of colors will be from job applied samples.

1.9 INSTALLER QUALIFICATION

A. Contractor: The Painting Contractor shall be a professional painter who has been in business for a minimum of five years installing paint systems similar to those specified.
1.10 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the job site in the manufacturer's original, unopened packages and containers bearing manufacturer's name and label and the following information:

1. Product name or title of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content.

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F. Maintain containers used in storage in a clean condition, free of foreign materials and residue.

C. Remove oily rags and waste daily.

1.11 PROJECT CONDITIONS

A. Apply waterborne paints only when temperatures of surfaces to be painted and surrounding air are between 50 and 90 deg F.

B. Apply solvent-thinned paints only when temperatures of surfaces to be painted and surrounding air are between 45 and 95 deg F.

C. Do not apply paint when relative humidity exceeds 85 percent; or to damp or wet surfaces.

1.12 WARRANTY

A. Contractor: The Contractor shall provide certification that he has provided the paint manufacturer's recommended, best quality coating system, preparation and application for the substrate and warrant the paint will not fail for a period of two (2) years from the date of Substantial Completion.

1. Failure shall be deemed to be peeling, flaking or crazing of the finish attributable to the preparation of substrate or application of the finish system.

B. Paint Manufacturer: Paint manufacturer shall warrant that his paint system will not fail for a period of two (2) years from the date of Substantial Completion.

1. Failure shall be deemed to be peeling, flaking, crazing or noticeable or excessive fading of the finish attributable to the manufacturer's material or recommended substrate preparation or application methods.
PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Manufacturer offering products that may be incorporated in the work is but is not limited to Pratt and Lambert. Subject to compliance with requirements, other manufacturers offering products that may be incorporated in the work include but are not limited to the following:

1. Benjamin Moore and Co. (Moore)
2. PPG Industries, Inc. (PPG)
3. Sherwin-Williams Co. (SW)
4. Pratt & Lambert, Inc. (P&L)

B. Specified paint manufacturer's products are based upon most recent product literature available and do not reflect product line changes made in the manufacturers' efforts to limit environmental factors or remove mercury from their product formulations. No paint materials used on this project shall contain mercury. If the products listed do contain mercury or have been dropped from the manufacturer's line because they contained mercury or for other environmental factors the manufacturer's equivalent grade or a better grade product, subject to the approval of the Designer, shall be substituted for the specified product.

C. If the paint manufacturer's current specifications for paint systems do not agree with the specified best grade, surface preparation or primer for the specified finish coats provide the paint manufacturer's recommended surface preparation and highest quality primer.

2.2 PAINT MATERIALS, GENERAL

A. Paint Materials: Materials for painting will be a combination of Owner furnished paints (all finish paints for finish painting) and Painting Contractor furnished paints (all surface prep and primers, and all paints for touch-up of surfaces to match and for masonry sealers and encapsulating coatings).

1. Owner Furnished Paints: The Owner’s paint systems in these buildings generally utilize a Benjamin Moore semi-gloss paint in public areas and a Kyanize semi-gloss paint in other areas. The University will provide to the Painting Sub-contractor these finish paints for Painting Subcontractor’s use for painting of new work.
2. All other paints, primers, and surface preparation materials for painting of areas requiring touch-up or for painting of any patched or repaired areas including all installation tools, materials, and equipment shall be the responsibility of the Painting Subcontractor. This includes specialty paint and coating materials like brick masonry and concrete encapsulant type coatings.

B. Interior and Exterior Paints and Coatings (Owner Furnished Finish Paints and Painting Contractor Furnished Primers and Surface Prep).
1. All paints required for finish paint coats for new work installed under this Contract will be provided by the University for the Painting Sub-contractor’s use in painting.

2. All other painting materials required for painting including all surface preparation and all primers shall be provided by the Painting Sub-contractor.

C. Interior and Exterior Paints and Coatings (Painting Sub-contractor Furnished and Installed).

1. All paints required for touch-up painting of interior surfaces for the various rooms, spaces, and other areas requiring touch-up will be provided by the Painting Sub-contractor.

2. All paints required for painting of any patched surfaces such as concrete or masonry in the various rooms, spaces, and other areas which are to be painted to match adjacent surfaces will be provided by the Painting Sub-contractor.

3. All materials shall match colors and finishes of existing and shall meet UMA building standards.

D. All other painting materials including all spray equipment, rollers, brushes, masking materials, temporary protection such as drop clothes, etc. will be the responsibility of the Painting Sub-contractor providing touch-up.

E. Material Compatibility: Provide primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

F. Material Quality: Provide manufacturer’s best-quality, highest performance paint material of the various coating types specified. Paint-material containers not displaying manufacturer’s product identification will not be acceptable. If a surface material not specified is encountered provide the manufacturer’s best-quality paint material for that substrate.

   1. Proprietary Names: Use of manufacturer’s proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish manufacturer’s material data and certificates of performance for proposed substitutions.

G. Colors: As selected by the University.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions under which painting will be performed for compliance with requirements for application of paint. Comply with procedures specified in PDCA P4.

   1. Proceed with paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
2. Start of painting will be construed as Applicator's acceptance of surfaces and conditions within a particular area.

B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.

1. Notify the Architect about anticipated problems using the materials specified over substrates primed by others.

3.2 PREPARATION

A. General: Comply with manufacturer's written instructions and recommendations applicable to substrates indicated.

B. Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.

C. Existing Previously Surfaces to be Repainted or Touched-Up to Match Existing.

1. Concrete and Concrete Masonry: Surfaces shall be clean and dry and free of loose materials and coatings. Prepare surface of areas to be painted and clean prior to painting.
3. Skim-coated concrete columns, beams, and ceilings: Carefully clean with all-purpose greaser cutter and cleaner. Do not abrade surface. Spot prime only as necessary and paint. Any major repairs to existing finish shall be performed by the University.
4. Wood to be Painted: Sand surfaces smooth and free of marks prior to applying first coat. Wash sap spots and knots with mineral spirits. When dry, touch-up spots and knots with an approved sealer for exterior work, and with two coats of shellac for interior work.

   a. Fill nail holes, cracks, open joints, and other defects with putty or plastic wood filler. Sand smooth when dry. Prime and paint.

5. Surface mounted conduit and or sprinkler piping. Surfaces shall be clean and dry and free of loose materials and coatings. Prepare surface of areas to be painted and clean prior to painting.

D. Preparation of Student Lounge, Walls, Ceilings, and Wood Trim.
1. Removal of miscellaneous accessories by General Contractor. Before applying paint
or other surface treatments, clean the substrates of substances that could impair the
bond of the various coatings. Remove all staples, tacks, nails, gum, scotch tape, paint,
 oil, grease, and all other foreign substances. The General Contractor is responsible for
removing all existing attached accessories and reattaching after final painting. The
Painting Contractor shall remove any nails, screws, or hooks and dispose of properly.
 All surfaces shall be cleaned with a non-flammable all-purpose grease cutter and
cleaner.

2. Schedule cleaning and finishing so dust and other contaminants from the cleaning
process will not fall on wet, newly finished surfaces.

3. Surface Preparation: Clean and prepare surfaces to be refinished according to
manufacturer’s written instruction for each particular substrate condition and as
specified.

4. Wood Trim: Clean surfaces of dirt, oil, and other foreign substances with non-flammable
 all-purpose grease cutter and cleaner and sandpaper or steelwool, as required.
 Surface imperfections such as pen marks, scratches, burns, chips, etc. shall be
 removed, sanded smoothly and filled with matching filler.

E. Cleaning: Before applying paint or other surface treatments, clean substrates of
substances that could impair bond of the various coatings. Remove oil and grease before
 cleaning.

1. Comply with manufacturer’s written instructions for each particular substrate condition
 and as specified.

2. Schedule cleaning and painting so dust and other contaminants from the cleaning
 process will not fall on wet, newly painted surfaces.

3. Remove all grease, oil, and stains with chemical remover.

4. Wash all surfaces with mineral spirits.

5. Rinse with clear water.

6. Schedule cleaning and painting so dust and other contaminants from the cleaning
 process will not fall on wet, newly painted surfaces.

F. Materials Preparations: Mix and prepare paint materials according to manufacturer’s
written instructions.

1. Maintain containers used in mixing and applying paint in a clean condition, free of
 foreign materials and residue.

2. Stir material before application to produce a mixture of uniform density. Stir as required
during application. Do not stir surface film into material. If necessary, remove surface
 film and strain material before using.

3. Use only thinners approved by paint manufacturer and only within recommended
 limits.

3.3 APPLICATION

A. Apply paint in accordance with manufacturer’s directions. Use applicators and
 techniques best suited for substrate and type of material being applied.
B. Paint colors, surface treatments, and finishes are indicated in the paint schedules.

1. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
2. Provide primer coats that are compatible with finish paint to be provided.
3. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, grilles and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
4. Paint surfaces behind movable the same as similar exposed surfaces. Before final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
5. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles.
6. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.

C. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.

1. The number of coats and film thickness required are the same regardless of application method. Do not apply succeeding coats until previous coat has cured as recommended by manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer’s written instructions, sand between applications.
2. Omit primer over metal surfaces that have been shop primed and touch-up painted.
3. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure that edges, corners, crevices, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
4. Allow sufficient time between successive coats to permit proper drying. Do not re-coat surfaces until paint has dried to where it feels firm, and does not deform or feel sticky under moderate thumb pressure, and until application of another coat of paint does not cause undercoat to lift or lose adhesion.

D. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer’s written instructions.

1. Brushes: Use brushes best suited for type of material applied. Use brush of appropriate size for surface or item being painted.
2. Rollers: Use rollers of carpet, velvet-back, or high-pile sheep’s wool as recommended by manufacturer for material and texture required.
3. Spray Equipment: Use airless spray equipment with orifice size as recommended by manufacturer for material and texture required.

E. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer’s recommended spreading rate to achieve dry film thickness indicated. Provide total dry film thickness of the entire system as recommended by manufacturer.
F. Prime Coats: Before applying finish coats, apply a prime coats, as recommended by manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Refer to Interior Paint Schedule for number of coats required.

1. Apply a second prime coat to new and repaired surfaces after first prime coat is complete.
2. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in second coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.

G. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.

H. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

I. Apply additional coats when undercoats or other conditions show through final coat of paint until paint film is of uniform finish, color, and appearance.

J. Sand lightly between each succeeding coat except at walls and ceilings.

K. Prime Coats: Before application of finish coats, apply a prime coat of material as recommended by the manufacturer to material that is required to be painted.

L. Completed Work: Remove, refinish, or repaint work not in compliance with specified requirements.

3.4 FIELD QUALITY CONTROL

A. Owner reserves the right to invoke the following test procedure at any time and as often as Owner deems necessary during the period when paint is being applied.

1. The Owner may engage the services of an independent testing agency to sample the paint material being used. Samples of material delivered to the Project will be taken, identified, sealed, and certified in the presence of the Contractor.
2. The testing agency will perform appropriate tests for the following characteristics as required by the Owner.

3.5 CLEANING

A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from Project site.
1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

3.6 PROTECTION

A. Protect work of other trades against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as acceptable to Designer.

B. Provide “Wet Paint” signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.

C. At completion of construction activities of other trades, touch up and restore painted surfaces damaged or defaced by construction activity.

3.7 PAINT SCHEDULE

A. Number of coats scheduled is minimum.

B. Painting of Interior Surfaces: Important Note: Notwithstanding anything in the following scheduled to the contrary, interior painting and finishing shall conform to the applicable laws and building code regarding fire hazard classifications of finish materials.

1. Interior Concrete & CMU, Walls, and Ceilings:

   One Coat  Interior Latex Primer Sealer
   Two Coats  S-W Pearly White 7009 (Paint furnished by University)

2. Interior Doors and Frames:

   One Coat  Interior Latex Primer Sealer
   Two Coats  S-W Pearly White 7009 (Paint furnished by University)

3. Encaustant Type Coating for Affected Areas Associated with Perimeter Sealant at Existing Door Frames:

   Two Coats  Sikagard 62

   After application of second coat and while epoxy is still wet, dust surface with “000” mesh oven dried silica sand and allow to dry over night. Required to facilitate adhesion of acrylic paint top coat. Refer to manufacturer’s application instructions.

4. Interior Brick Masonry Coating:

   Two Coats  Sikalastic 748 PA

5. Interior Concrete Beneath Entrance Mat to be Sealed:
Two Coats  Prosoco Saltguard WB Silane/Siloxane

6. Interior Gypsum Wallboard for Acrylic Latex Finish, Semi-Gloss:
   One Coat  Benjamin Moore Pristine Eco Spec Interior Latex Primer Sealer 231
   Two Coats  Benjamin Moore Pristine Eco Spec Interior Latex Semi-Gloss 224
   (Paint furnished by University)

7. Interior Wood for Acrylic Latex Finish Semi-Gloss:
   One Coat  Benjamin Moore Pristine Eco Spec Interior Latex Primer Sealer 231
   Two Coats  Benjamin Moore Pristine Eco Spec Interior Latex Semi-Gloss 224
   (Paint furnished by University)

8. Exterior Concrete:
   One Coat  SW Exterior High Performance Acrylic Primer
   Two coats  SW Exterior High Performance Acrylic Finish, Semi-gloss
   (Paint furnished by University)

9. Exterior Metal for Epoxy Finish:
   Touch-Up Coat  SW Macropoxy 646
   Two Coats  SW Acrolon 218 HS

C. Existing door frame acrylic-latex, interior enamel, as recommended by the manufacturer
   for this substrate, applied at spreading rate recommended by the manufacturer to
   achieve a total dry film thickness of not less than 1.3 mils.

1. PPG: 6-6 Speed hide Interior Quick-Drying Enamel Undercoat.
2. Finish Coat Semi-Gloss, acrylic-latex, interior enamel applied at spreading rate
   recommended by the manufacturer to achieve a total dry film thickness of not less
   than 1.3 mils.
   a. Finish coat material furnished by the University S-W Pearly White 7009

END OF SECTION 099001
SLATE FLOOR TILE FURNISHED BY OWNER & INSTALLED BY TILE CONTRACTOR —

(2) 1 1/2" OD. STN. STL. SLEEVE W/ FLANGE SET ON STRUCTURAL STUB UP 1" ABOVE FINISH FLOOR —

(2) 1" ELECTRICAL CONDUIT EXTEND 6" ABOVE FIN. FLOOR —

2 1/2" X 6" EXTRUDED ALUM. SNAP TRIM. FIN TO MATCH ENTRANCE —

EXISTING CONCRETE VESTIBULE WALL

ALM. TRIM CUT FROM 2X6 TUBE BACKER ROD & SEALANT TYP.

TYPICAL BUILDINGS 352, 353, 354, & 356.

INTERIOR SIDELIGHT JAMB

SCALE: 3"=1'-0"

REFERENCE DRAWINGS A6.01 AND A6.03

REVISED

U.S.A 17-05
SOUTHWEST TOWER VESTIBULE AND LOW-RISE LOUNGE IMPROVEMENTS UNIVERSITY OF MASSACHUSETTS AMHERST, MASSACHUSETTS

ATC Group Services, LLC Addendum

<table>
<thead>
<tr>
<th>ITEM</th>
</tr>
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<tbody>
<tr>
<td>1. <strong>Section 020800 – Asbestos Abatement:</strong> CHANGE the name of Section 020800 to “Asbestos and PCB Abatement”</td>
</tr>
</tbody>
</table>

| 2. **Section 020800 – Asbestos Abatement, Part 1.02, A:** REVISE the last definition to read as follows: |
| |
| "Asbestos Abatement Contractor": Refers to the Contractor who is performing asbestos & PCB abatement work as outlined by this Section. |

| 3. **Section 020800 – Asbestos Abatement, Part 1.04, C. 6, a:** ADD the following item to that Part: |
| |
| ▶ Concrete and blue stone flooring at the base of exterior Entry Vestibule Doors of High Rise Buildings |

| 4. **Section 020800 – Asbestos Abatement, Part 1.04, C. 6, d:** ADD the following item to that Part: |
| |
| EnviroKlean “Saf-Restorer” (or an equivalent product) shall be used to clean both the concrete and brick surfaces to be encapsulated. See attached Cut-Sheet on the “Saf-Restorer” product. Note that all cleaning operations shall take place under containment all rinse-water shall be collected and disposed of as asbestos and >50 ppm PCB waste. This shall also include any rags, sponges, mops, brushes, rollers, pads or other materials used in the application and cleaning process. |

| 5. **Section 020800 – Asbestos Abatement, Part 1.04, C. 8:** ADD the following items to that Part: |
| |
| e. The scope shall include removal of the existing curtains and associated components located around the door opening where asbestos skim coat plaster is located on the concrete opening. |

| f. The Scope shall also include any drilling or fastening required to install the new door units, curtains or other components back onto the concrete opening. This does not apply to CMU surfaces. |

| g. At the areas where the Balcony Doors have been infilled with new CMU and brick to be removed, the Asbestos Abatement Contractor shall be required to saw-cut the brick and/or CMU back 12” from the former caulk joint around the door opening and dispose of the removed material as asbestos and >50 ppm PCB waste. |
Enviro Klean® SafRestorer® breaks the grip of stubborn atmospheric and carbon staining on masonry and stone for easy rinsing away. It restores the intended appearance of buildings soiled by decades of auto exhaust and other air pollutants. Enviro Klean® SafRestorer® also gets rid of soiling and hard-to-remove deposits on window glass, including white scum.

Unlike many conventional restoration cleaners, low-odor, non-fuming SafRestorer® is safe for use around most architectural metal. This highly efficient liquid restoration cleaner is suitable for a wide variety of stone and masonry, including unpolished limestone and marble.

**OVERVIEW**

**ADVANTAGES**
- Fast and effective on most masonry surfaces.
- Safe for unpolished limestone and marble.
- Will not etch or discolor most glass, architectural metals or painted surfaces.
- Low-odor, non-fuming formulation.
- Contains no mineral acids.
- Effectively removes mud staining from clay brick surfaces.

**Limitations**
- May not be suitable for some polished stone and glazed surfaces.
- Not intended for routine maintenance glass cleaning.
- Not for use on treated low-E glass; acrylic and polycarbonate sheet glazing; and glazing with surface-applied reflective, metallic or other

**SPECIFICATIONS**

For all PROSOCO product specifications visit "Solution Finder."

**REGULATORY COMPLIANCE**

**VOC Compliance**
Enviro Klean® SafRestorer® is compliant with all national, state and district regulations.

**TYPICAL TECHNICAL DATA**

<table>
<thead>
<tr>
<th>FORM</th>
<th>Clear, straw colored liquid with mild odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.11</td>
</tr>
<tr>
<td>pH</td>
<td>2.9</td>
</tr>
<tr>
<td>WT/GAL</td>
<td>9.15 lbs</td>
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<tr>
<td>ACTIVE CONTENT</td>
<td>Not applicable</td>
</tr>
<tr>
<td>TOTAL SOLIDS</td>
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</tr>
<tr>
<td>VOC CONTENT</td>
<td>Not applicable</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Not applicable</td>
</tr>
<tr>
<td>FREEZE POINT</td>
<td>28°F (-2°C)</td>
</tr>
<tr>
<td>SHELF LIFE</td>
<td>2 years in tightly sealed, unopened container</td>
</tr>
</tbody>
</table>
**PREPARATION**

Protect people, vehicles, property and all surfaces not designated to be cleaned from product, splash, wind drift, residue, and rinse water. Protect/direct auto traffic and foot traffic. Clean when traffic is at a minimum.

Limit contact of cleaner with metal window frames, particularly architectural aluminum. If contact occurs, rinse immediately. In most cases, limited contact will not harm metal.

**Surface and Air Temperatures**

To avoid harm to masonry, do not clean when temperatures are below freezing or will be overnight. Best cleaning results are obtained when air and masonry surface temperatures are 40°F (4°C) or above. If freezing conditions exist prior to application, let masonry thaw.

**Equipment**

Apply with an acid-resistant brush, heavy nap roller or low-pressure spray (50 psi max). Do not atomize. Scrub heavily soiled surfaces with a nonabrasive brush or synthetic scrubbing pad.

Rinse spent cleaner and dissolved contaminants from the wall with masonry-washing equipment generating 400–1000 psi with a water flow rate of 6–8 gallons per minute. Use a 15–45° fan spray tip. Heated water (150–180°F; 65–82°C) may improve cleaning efficiency. Use adjustable equipment for reducing water flow-rates and rinsing pressure as needed for sensitive surfaces.

Rinsing pressures greater than 1000 psi and fan spray tips smaller than 15° may permanently damage sensitive masonry. Water flow-rates less than 6 gallons per minute may reduce cleaning productivity and contribute to uneven cleaning results.

Use only well maintained staging and scaffolding that is equipped with steel cable. Use polypropylene ropes and safety lines. Use acid-resistant dilution and application equipment.

**Storage and Handling**

Store in a cool, dry place with adequate ventilation. Always seal container after dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperature of 45–100°F (7–38°C). Do not double stack pallets. Dispose of in accordance with local, state and federal regulations.

**APPLICATION**

Before use, read “Preparation” and “Safety Information.”

ALWAYS TEST each type of surface and stain for dilution, coverage and effectiveness using the following application instructions before beginning full-scale cleaning operations. Let test dry thoroughly before evaluating.

**Coverage Rates**

Coverage varies based on porosity and texture. Always test.

- 150–400 sq.ft. (14–37 sq.m.) per gallon of undiluted cleaner

**Dilution**

Enviro Klean® SafiRestorer® may be used in concentrate or diluted with up to three parts fresh water. Do not alter or use for purposes other than specified.

**ALWAYS TEST**

ALWAYS TEST a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application.

**Application Instructions**

**Brick and Stone**

1. Working from the bottom to the top, thoroughly pretreat the surface with fresh water.
2. Apply the cleaning solution freely from the bottom of the work area to the top.
3. Let the cleaning solution stay on the wall 5–15 minutes. If the cleanser starts to dry, reapply.
4. Reapply the cleaning solution to heavily soiled areas. Scrub gently.

5. Working from the bottom to the top, thoroughly rinse treated surfaces with clean water. Make sure to flush all spent cleaner and dissolved soiling from the surface, surface pores and adjacent non-masonry surfaces.

**Glass**

Working from the bottom to the top, thoroughly pretreat the glass with fresh water. Apply in concentrate directly to window. Let cleaner dwell for no more than five minutes. Thoroughly rinse spent cleaner and dissolved contaminants off glass with lots of fresh water.

**Cleanup**

Clean equipment with fresh water.
SAFETY INFORMATION

Enviro Klean® SafRestorer® is a concentrated, acidic cleaner with safety issues common to corrosive materials. This product may damage a variety of common construction materials. Use appropriate safety equipment and job site controls during application and handling. Read the full label and MSDS for precautionary instructions before use.

First Aid

Ingestion: If conscious, give large amounts of milk or water and call a physician, emergency room or poison control center immediately. Do not induce vomiting.

Eye Contact: Rinse eyes and under lids thoroughly for 15 minutes. Get immediate medical assistance.

Skin Contact: Remove contaminated clothing and rinse thoroughly for 15 minutes. Apply 2.5% Calcium Gluconate gel if available. Get medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

24 Hour Emergency Information:
INFO TRAC at 1-800-535-5053

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchaser shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO Inc. warrants this product to be free from defects. Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose. The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO’s liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

CUSTOMER CARE

Trained personnel are available for products, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care — technical support.

Company representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our website at www.prosoco.com, for the name of the Enviro Klean® representative in your area.

BEST PRACTICES

Limit contact of cleaner with metal window frames, particularly architectural aluminum. If contact occurs, rinse immediately. In most cases, limited contact will not harm metal.

Apply with an acid-resistant brush, heavy nap roller or low-pressure spray (50 psi max). Scrub heavily soiled surfaces with a nonabrasive brush or synthetic scrubbing pad.

Use only well maintained staging and scaffolding that is equipped with steel cable. Use polypropylene ropes and safety lines. Use acid-resistant dilution and application equipment.

Rinse spent cleaner and dissolved contaminants from the wall with masonry-washing equipment generating 400–1000 psi with a water flow rate of 6–8 gallons per minute. Use a 15–45° fan spray tip. Heated water (150–180°F; 65–82°C) may improve cleaning efficiency. Use adjustable equipment for reducing water flow-rates and rinsing pressure as needed for sensitive surfaces.

Never go it alone. For problems or questions, contact your local PROSOCO distributor or field representative. Or call PROSOCO technical Customer Care toll-free at 800-255-4255.