CONTRA COSTA COMMUNITY COLLEGE  
Diablo Valley College  
D-1037 LIBRARY CLASSROOMS PROJECT  
ADDENDUM #2 Date: December 1st, 2014

NOTICE TO ALL PLAN HOLDERS
You are hereby notified of the following changes, clarifications and/or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and/or previous Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same, and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

This Addendum forms a part of the Contract Documents and modifies the original drawings dated November 5th 2014 and specification dated November 10th, 2014. Acknowledge receipt of this Addendum in space provided on the Bid Proposal Form. Failure to acknowledge may subject Bidder to disqualification.

A. SPECIFICATIONS  
Section 09900, Painting  
Item No. AD1.1  Add missing Section 09900, Painting (attached)

B. DRAWINGS  
Hazardous Material Abatement  
Item No. AD1.2  Add Sheets (attached)  
HM1.0  HAZARDOUS MATERIAL ABATEMENT PLAN: PARTIAL FIRST FLOOR  
HM1.1  HAZARDOUS MATERIAL ABATEMENT PLAN: FIRST FLOOR RESTROOMS
ADDENDUM #2

Specification Attachment:
Section 09900, Painting (16 pages)

Drawing Attachment:
Sheet HM1.0
Sheet HM1.1

END OF ADDENDUM 2
ARCHITECT STATEMENT FOR UTILIZE PLANS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME AND/OR DELEGATED DESIGN PROFESSIONAL UNDER ME.

THE ITEMS LISTED BELOW HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.)

<table>
<thead>
<tr>
<th>Sheet #</th>
<th>Description</th>
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<tbody>
<tr>
<td>HM1.0</td>
<td>HAZARDOUS MATERIAL ABATEMENT PLAN: PARTIAL FIRST FLOOR</td>
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SIGNATURE OF ARCHITECT OF RECORD
Kendall M. Young
Kendall Young Associates
720 York Street, Ste 104
San Francisco, CA 94110

C-7565
LICENSE NUMBER

ARCHITECT

ARCHITECT OF RECORD: Kendall M. Young
Kendall Young Associates
720 York Street, Ste. 104
San Francisco, CA 94110

DATE SIGNED
7-31-15
EXPIRATION DATE

DSA Approval Stamp

APPROVED
DIV OF THE STATE ARCHITECT

AC F/LS SS

APPL NO. 01-114358 DATE
PART 1 - GENERAL

1.01 SUMMARY

A. Work Included: Furnish all labor, materials, equipment, and related work necessary to complete painting and painter’s finish on exposed exterior and interior surfaces work as indicated in the Drawings and specified herein.

1. Paint all new Work in the Project as indicated in these Specifications and in the Drawings.

   a. Interior: Paint new work and previously painted interior surfaces (doors, door frames, walls, ceilings, etc.) unless otherwise indicated. See Article 1.01A1d for painting under specific Sections.
      i. Paint adjacent surfaces connected to the new Work. The adjacent surface shall be defined as the area from the new Work to the inside or outside corner of the wall surface.
      ii. Work specified in Cutting and Patching, Section 01730; paint patched areas to match adjacent finish color, texture, etc.
      • Existing exposed (and entire) ceiling assembly including ducts, conduits, pipes etc., above suspended ceiling in Computer Lab, Room L148, Room L149 and Room L150.
      iii. Paint existing interior brick veneer.

   b. Exterior: Paint new work and previously painted exterior surfaces, unless otherwise indicated.
      i. Paint sheet metal enclosure panel over existing louver at Door L150.1.

   c. Prepare surfaces to be painted.
      i. Patch, fill holes and prepare existing wall and ceiling/soffit surfaces from removed fasteners, tape, etc.
      ii. Prepare brick surface and fill holes in brick for painting due to removed items such as conduits, marker/tack boards, clocks, etc.

   d. Do not paint prefinished aluminum such as:
      i. Work in Aluminum Storefront, Section 08410.
      ii. Existing window frames (interior and exterior.)

   e. Paint items in the following Sections:
      i. Work specified in Finish Carpentry, Section 06200.
      ii. Work specified in Metal Fabrications, Section 05500.
      iii. Work specified in Steel Doors and Frames, Section 08100.
      iv. Work specified in Access Doors, Section 08305, except stainless steel access doors.
      v. Work specified in Steel Acoustical Window: Section 08385.
      vi. Paint paintable sealant applied in Sealants, Section 08800.
      vii. Work specified in Gypsum Wallboard, Section 09250.
viii. Paint exposed work under Divisions 15, Plumbing, and Mechanical and Division 16, Electrical, Division 17, Data.
   - Paint exposed mechanical work such as ducts, supports, etc.
   - Paint exposed plumbing work such as pipes, supports, etc.
   - Paint exposed fire protection work such as conduits, boxes, supports, etc.
   - Paint exposed electrical and other low voltage work such conduits, boxes, supports, etc.
   - Work specified in Fire Alarm System, Section 13851; conform to code for required colors for specific components.

2. General: Painting of new Work and adjacent surfaces shall NOT include:
   a. Concealed Surfaces: Painting is not required on surfaces in concealed and inaccessible areas, except where surface is visible through exposed construction.
   b. Pre-finished Material and Equipment: Unless otherwise indicated, do not include painting for manufacturer or installer-finished items, which are specified in the various Sections of the Specifications. The extent of prefinishing by manufacturer generally only includes major components. Minor accessories, which are not finished by manufacturer or installer, shall be considered as work specified in this Section.
   c. Pre-primed Materials: Do not include in this Section prime coating for items, which are shop prime coated by manufacturer or fabricator.
   d. Do not include in this Section, painting concealed mechanical duct (if any) work, plywood back boards; and pipes and conduits not exposed to view.

B. Related Work:
   1. Painting specified elsewhere and included in respective Sections, including, but not necessarily limited to, shop priming.
   2. Selective Demolition, Section 01732.
   3. Cutting and Patching, Section 01730.
   4. Cast-In-Place Concrete: Section 03300.
   5. Finish Carpentry: Section 06200.
   6. Metal Fabrications: Section 05500.
   7. Steel Doors and Frames: Section 08100.
   8. Steel Acoustical Window: Section 08383.
   10. Gypsum Wallboard: Section 09250.
   14. Electrical: Division 16.
   15. Data: Division 17.
1.02 QUALITY ASSURANCE

A. Published specifications, standards, tests, and recommended methods of trade or industry apply to the work of this Section where cited by the abbreviations noted below.


2. Federal Specifications (FS.)


4. Steel Structures Painting Council (SSPC), The Society of Protective Coatings:
   a. SSPC-6P/NACE 3 Commercial Blast Cleaning: A commercial blast cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products, and other foreign matter, except for staining as noted. Random staining shall be limited to no more than 33 percent of each unit area of surface as defined, and may consist of light shadows, slight streaks, or minor discolorations caused by stains of rust, stains of mill scale, or stains of previously applied coating.
   b. SSPC-Paint 36, Two-Component Weatherable Aliphatic Polyurethane Topcoat, Performance-Based: For topcoat that provides excellent color and gloss retention, not for thick section elastomeric coatings. Coatings meeting the requirements of this specification suitable for exposures in environmental zones 1A (interior, normally dry), 1B (exterior, normally dry), 2A (frequently wet by fresh water), 2B (frequently wet by salt water), 3B (chemical exposure, neutral), and 3C (chemical exposure, alkaline).

B. Field Quality Control:
   1. Request review by the Architect of first finished room, space, or item of each color scheme required for color, texture, and workmanship.
   2. Use first acceptable room, space, or item as the Project standard for each color scheme.

C. Environmental Requirements: Conform to restrictions of the following, which ever is more restrictive:
   1. District Requirement:
a. EPA Environmentally Preferred Purchase program, Aberdeen
   Proving Ground’s Pilot Program.

b. California Air Resources Board (CARB) limits on volatile organic
   compounds as adopted by the South Coast Air Quality
   Management District (SCAQMD) in Rule 1113 (Architectural
   Coatings.)
   i. Test Methods: United States Environmental Protection
      Agency (EPA) Test Method 24 Determination of Volatile
      Matter Content, Water Content, Density, Volume Solids, and
      Weight Solids Of Surface Coatings.

2. Use low-VOC products to minimize impact on indoor air quality. Non-
specialty paint products shall meet the following VOC content limits:

<table>
<thead>
<tr>
<th>Paint Type</th>
<th>Grams/Liter</th>
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<tbody>
<tr>
<td>a. Flat Interior And Exterior Paint:</td>
<td>50</td>
</tr>
<tr>
<td>b. Non-Flat Interior and Exterior Paint:</td>
<td>150</td>
</tr>
<tr>
<td>c. Primers, sealer and Undercoats:</td>
<td>200</td>
</tr>
<tr>
<td>d. Stains:</td>
<td>250</td>
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3. Green Seal Standards.

D. Sustainable Design Requirements: Paints and coating under this Section and
   used in work of this Section are intended to reduce the quantity of indoor air
   contaminants that are harmful to comfort and well-being of the installers and
   occupants and are to be formulated to be within VOC content limits outlined
   in LEED NC3.0 Credit EQ4.2

E. Qualifications of Metal Refinisher: Prequalified company with a minimum of five
   years experience in refinishing and restoring of metal finishes of comparable
   scope.

F. Conform to the standards set forth by Specifications Services Inc, Architectural

1.03 SUBMITTALS

A. Submit in accordance with the provisions of the General Conditions, Article
   3.11.

B. Product Data: Paint materials and products shall be subject to the Architect’s
   approval.
   1. Submit a complete list of materials proposed for use, together with
      manufacturer’s specifications.
   2. Manufacturer’s certification of product compliance with paint standards
      (VOC content and prohibited compounds) per Article 1.02C of this
      specification.
   4. Manufacturer’s maintenance and cleaning instructions.
   5. Qualifications of Metal Refinisher: Submit list of five projects of similar
      scope. List names of projects, District and General Contractor.
C. Color Samples:
1. Prepare custom colors on hardboard, 8-inches x 8-inches in size, using specified paint, finish and texture for each color.
2. Submit stock colors on manufacturer's standard large size (5½-inches x 8½-inches) chips.
3. Samples shall be resubmitted as requested until required sheen, color, and texture is achieved.
4. Label and identify each sample as to location and application.

D. Schedule: The schedule shall contain the following information:
5. List types of paints including primers/undercoats.
6. Location (room number, room description, description of surface (wall, ceiling, etc.) and surface being painted.
7. Color and finish where each occurs.
8. Paint film thickness of each type and at each surface.

E. Additional Approval: After the Architects reviews and approves the submittals, the District's Building and Ground, Paint Shop shall review and approval. Allow an additional 14 days for the submittal process for this Section.

F. LEED Submittal:
1. Submit letter or product data from manufacture stating that the paints and coating used in work of this Section do not exceed VOC content limits established by the following standards:
   b. Anti-Corrosive and Anti-Rust Paints: Green Seal Standard GS-03, Re-refined Engine Oil
   c. Clear Wood Finishes and Sealers: SCAQMD Rule 1113.
2. Submit hardcopies of completed Online Documentation required for LEED EQ Credit 4.2.

1.04 DELIVERY, STORAGE, AND HANDLING

A. To the extent feasible, do not store paint products with materials that have a high capacity to adsorb VOC emissions (i.e., materials which are woven, fibrous or porous in nature, such as acoustical ceilings, carpet, textiles, etc.). Do not store paint products in occupied spaces.

B. Deliver sealed containers with labels legible and intact.

C. Storage of Materials:
1. Store only acceptable Project materials on Project site.
2. Store in a suitable location.
3. Restrict storage to paint materials and related equipment.
4. Comply with health and fire regulations.

1.05 PROJECT CONDITIONS
A. Environmental Requirements:
   1. Comply with manufacturer's recommendations as to environmental
      conditions under which coatings and coating systems can be stored
      and applied.
      a. Apply water-based paints only when the temperature of
         surfaces to be painted and surrounding air temperatures are
         between 50 degrees F and 90 degrees F.
      b. Apply solvent-thinned paints only when the temperature of
         surfaces to be painted and surrounding air temperatures are
         between 45 degrees F and 95 degrees F.
      c. Do not apply paint in snow, rain, fog, or mist, when the relative
         humidity exceeds 85 percent, at temperatures less than 5
         degrees F above the dew point, or to damp or wet surfaces.
         i. Painting may continue during inclement weather if surfaces
            and areas to be painted are enclosed and heated within
            temperature and humidity limits specified by the
            manufacturer during application and drying periods.
      d. Do not apply finish in areas where dust is being generated.

B. Protection: Cover or otherwise protect finish work of other trades and surfaces
   not being painted concurrently or not to be painted.

1.06 MAINTENANCE

A. Extra Materials: Furnish extra quantities for site touch-up:
   1. One full unopened gallon of each color, each finish, and each type of
      paint.
   2. One gallon of each type of primer.

B. Furnish in unopened containers with manufacturer's labels intact, marked to
   identify locations where used.

C. Store in location directed by District.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Environmentally-Preferable Product Criteria: The volatile organic compound
   (VOC) content of interior paints, interior primers, and anti-corrosive paints used
   in interior applications shall not exceed the limits defined in the Article 1.02C3.
   All VOC limits are defined in grams per liter, and exclude water and tinting
   color added at the point of sale as determined by U.S. EPA Reference Test
   Method 24.
   1. When ever possible, use paints that are water-based, 100 percent
      solids, high performance acrylics, which are low-VOC in content.
      Whenever possible, use stains that are water-based urethanes with
      low-VOC content.
2. Water-based paints shall not be formulated or manufactured with chemical listed to be hazardous including but not limited to:
   e. Halomethanes: methylene chloride.
   f. Chlorinated ethanes: 1,1,1-trichloroethane.
   g. Aromatic solvents: benzene, toluene (methylbenzene), ethylbenzene.
   h. Chlorinated ethylenes: vinyl chloride.
   i. Polynuclear aromatics: naphthalene.
   j. Chlorobenzenes: 1,2-dichlorobenzene.
   k. Phthalate esters: di (2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate, diethyl phthalate, dimethyl phthalate.
   l. Miscellaneous semi-volatile organics: isophorone.
   m. Metals and their compounds: antimony, cadmium, hexavalent chromium, lead, mercury.
   n. Preservatives (antifouling agents): formaldehyde.
   o. Ketones: methyl ethyl ketone, methyl isobutyl ketone.

3. Oil-based paint should not be used unless there are no acceptable water-based (acrylic) paint alternatives. To prevent increase resistance to “yellowing”, use only high quality soy-based oil paints. Oil-based paint shall:
   a. Not contain halogenated solvents.
   b. Not be formulated or manufactured with formaldehyde, mercury, and mercury compounds.
   c. Not be pigmented with lead, cadmium, chromium, and their oxides.
   d. Not formulated or manufactured with aromatic hydrocarbons in excess of 10 percent.

4. No thinning, reducing or changing of mix is permitted unless specially indicated herein.

5. Paints are to be supplied in recycled or recyclable non-lead containing containers.

6. Biocides content shall not exceed 0.025 percent, by weight or volume. Paint shall not contain fungicides, or bactericides that are classified as mercury acetates, phenol phenates, or phenol formaldehydes.

B. Performance Requirements:
1. Interior Opaque Paint:
   a. Scrubbability (Abrasion Resistance). The product shall demonstrate at least 100 cycles (200 separate strokes) before failure, as determined by ASTM D2486.
   b. Hiding Power (Opacity). The product shall demonstrate a minimum 0.95 contrast ratio at 400 square feet per gallon as determined by ASTM D2805. Compliance will be determined by testing a white paint having a minimum 80% reflectance.
   c. Washability (Stain Removal). The product shall demonstrate the following minimum requirements for stain removal as determined by ASTM D4828.
i. Flat: 5 minimum rating.
ii. Non-flat: 7 minimum rating.

2. Exterior Opaque Paint: Hiding Power (Opacity). The product shall demonstrate a minimum 0.95 contrast ratio at 400 square feet per gallon as determined by ASTM D2805. Compliance will be determined by testing a white paint having a minimum 80% reflectance.

C. Paint Manufacturers: ICI Dulux Paint, Fuller O'Brian Paints, Dunn Edwards, or Kelly Moore; unless otherwise indicated.

D. Materials selected for coating systems for each type surface shall be the product of a single manufacturer when possible.

E. Unsuitability of Specified Products: Claims concerning unsuitability of any material specified (or the Contractor's inability to satisfactorily produce the Work) will not be entertained, unless such claim is made in writing to the Architect before the Work is started.

2.02 PRIMERS/SEALERS

A. Interior Latex Enamel: To be used as under-coat for smooth cementitious surfaces and bare wood.

B. Interior Latex-Based White Primer: Latex-based primer coating be used on interior gypsum drywall under a flat latex paint or a semi-gloss latex enamel.

C. Exterior Primer Coating: Exterior alkyd wood primer used for priming wood under alkyd enamels.

D. Rust-Inhibiting Primer: Quick-drying, rust-inhibiting primer used for priming ferrous metal on the exterior under high-gloss enamel and on the interior under enamel.

2.03 EXTERIOR FINISH PAINT MATERIAL

A. Exterior Acrylic: Quick-drying, flat, acrylic paint used on the exterior over stucco and concrete.

B. Alkyd Enamel: Weather-resistant, air-drying, semi-gloss enamel used on the exterior over prime-coated wood.

C. Exterior Exposed - Metal Fabrications: Tenemec or approved equal.
   1. Top shall conform to SSPC-Paint 36.
   2. Top Coat Color: Semigloss in color to be selected from manufactures color range.

2.04 INTERIOR FINISH PAINT MATERIAL
A. Interior Semi-Gloss Latex Enamel: Semi-gloss, latex enamel used over a primer on wood and hardboard, ferrous and zinc-coated (galvanized) metal surfaces, and over a primer on gypsum wallboard.

B. Latex-Based, Interior Flat Paint: Ready-mixed, latex-based paint used as a "size" on cotton or canvas covering over insulation.

2.05 MISCELLANEOUS WOOD FINISHING MATERIALS

A. Solvent Thinned Interior Wood Stain: Slow-penetrating solvent thinned wood stain for general use on interior wood surfaces under clear finishes.

B. Sanding Sealer: Manufacturer's recommended sanding sealer, compatible with catalyzed polyurethane finish coat.

2.06 COLORS

A. The Architect shall be the sole judge of the acceptability of colors.

B. Colors of paints will be selected by the Architect.

2.07 MIXING AND TINTING

A. Deliver paints ready mixed to job site.

B. Unless otherwise recommended by the manufacturer, paints may be thinned immediately prior to application with an approved manufacturer's thinner and used only within recommended limits when necessary to suit conditions of surface temperature, weather and application methods. The use of thinner shall not relieve the Contractor from obtaining complete hiding, full film thickness, or required gloss. Paints of different manufacturers shall not be mixed.

C. Mix only in mixing pails placed in suitably sized nonferrous or oxide-resistant metal pans.

D. Use tinting colors recommended by manufacturer for specific type of finish.
PART 3 - EXECUTION

3.01 INSPECTION

A. Examine surfaces scheduled to receive paint and finishes for conditions that will adversely affect execution, permanence, or quality of work and which cannot be put into acceptable condition through preparatory work as included in Article 3.02, "Preparation of Surfaces".

B. Do not proceed with surface preparation or coating application until conditions are suitable.

3.02 PREPARATION OF SURFACES

A. General Procedures: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items in places that are not to be painted, or provide surface-applied protection prior to surface preparation and painting. Remove these items if necessary for complete painting of the items and adjacent surfaces. Clean surfaces before applying paint or surface treatments. Remove oil and grease prior to cleaning. Schedule cleaning and painting so that dust and other contaminants from the cleaning process will not fall on wet, newly-painted surfaces. Following completion of painting operations in each space or area, items shall be reinstalled in the same manner that they were removed.

B. Surface Preparation: Clean and prepare surfaces to be painted in accordance with the manufacturer's instructions for each particular substrate condition and as specified. Provide barrier coats over incompatible primers or remove and reprime.

1. Notify Architect in writing when problems are anticipated in using the specified finish-coat material with substrates primed by others.

2. Surfaces, which cannot be prepared or painted as specified, shall be immediately brought to the attention of the Architect in writing.

3. Starting or work without such notification will be considered acceptance by the Contractor of surfaces involved.

4. The Contractor shall replace unsatisfactory work caused by improper or defective surfaces, as directed by the Architect, at no additional cost to the District.

C. Ferrous Metals: Clean nongalvanized ferrous-metal surfaces that have not been shop-coated; remove oil, grease, dirt, loose mill scale, corrosion, and other foreign substances. Use solvent or mechanical cleaning methods that comply with recommendations of the Steel Structures Painting Council.

1. Treat bare and sand-blasted or pickled clean metal with a metal treatment wash coat before priming.

2. Touch up bare areas and shop-applied prime coats that have been damaged. Wire-brush, clean with solvents recommended by the paint manufacturer, and touch up with the same primer as the shop coat.
D. Galvanized Surfaces: Clean galvanized surfaces with non-petroleum-based solvents so that the surface is free of oil and surface contaminants.
   1. Etch with material designed for etching of galvanized metal.
   2. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.

E. Wood Materials: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper. Sand smooth surfaces exposed to view and dust off.
   1. Scrape and clean small, dry, seasoned knots and apply a thin coat of white shellac or other recommended knot sealer before application of primer.
   2. Prime, stain, or seal wood to be painted immediately upon delivery. Prime edges, ends, faces, undersides, and backsides of wood. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when dried.
   3. When transparent finish is required, backprime with spar varnish.
   4. Backprime paneling on interior partitions where masonry, plaster, or other wet wall construction occurs on backside.
   5. Seal tops, bottoms, and cutouts of unprimed wood doors with a heavy coat of varnish or sealer immediately upon delivery to jobsite.

F. Gypsum Wallboard: Surfaces shall be dry and shall have all loose dirt and dust removed by brushing with a soft brush, rubbing with a dry cloth, or vacuum-cleaning prior to application of first-coat material. Repair blemishes, irregularities and damaged surfaces.

G. Material Preparation: Carefully mix and prepare paint materials in accordance with the manufacturer's directions.
   1. Maintain containers used in mixing and application of 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. Remove film and, if necessary, strain material before using.
   3. Use only thinners approved by the paint manufacturer, and only within recommended limits. Use odorless thinner with alkyd enamel.

H. Existing Surfaces:
   1. Existing glossy or semi-glossy surfaces-degloss surface for maximum adhesion by chemical means such as Jasco TSP No Rinse Substitute chemical deglosser per manufacturer's instructions or mechanical means such as power sanding. Trisodium Phosphate (TSP) is not allowed.
   2. Prepare surfaces as recommended by paint manufacturer.
   3. Adhesion: Conform to ASTM D3359, Method A.

I. Exterior Exposed - Metal Fabrications: Prepare surfaces to conform to SSPC-6/NACE 3, Commercial Blast Cleaning.
3.03 APPLICATION

A. General:

1. Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied. Spray applications will require prior approval from the District.
   a. Do not apply initial coating until moisture content of surface is within limitations recommended by paint manufacturer.
   b. Rate of application shall not exceed that as recommended by paint manufacturer for surface involved.
   c. Comply with recommendation of product manufacturer for drying time between succeeding coats.
   d. The number of coats and film thickness required is the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. Sand between applications where sanding is required to produce an even, smooth surface in accordance with the manufacturer's directions.

2. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.

3. Provide finish coats that are compatible with primers used.

4. Apply additional coats when undercoats, stains, or other conditions show through final coat of paint until paint film is of uniform finish, color, and appearance. Give special attention to ensure that surfaces, including edges, corners, crevices, welds and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

5. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, covers for finned tube radiation, grilles, and similar components are in place. Extend coatings in these areas as required to maintain the system integrity and provide desired protection.

6. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only before final installation of equipment.

7. Paint interior surfaces of ducts, where visible through registers or grilles, with a flat, non-specular black paint.

8. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.

9. Finish exterior doors on tops, bottoms, and side edges same as exterior faces.

10. Sand lightly between each succeeding enamel or varnish coat.

11. Omit primer on metal surfaces that have been shop-primed and touch up painted.

12. Finish coats shall be smooth and free from brush marks, streaks, laps or pile-up of paints, and skipped or missed areas.
13. Leave all parts of moldings and ornaments clean and true to details with no undue amount of paint in corners and depressions.
14. Make edges of paint adjoining other materials or colors clean and sharp with no overlapping.
15. Hardware, hardware accessories, plates, lighting fixtures, and similar items in place shall be removed prior to painting and replaced upon completion of each space.
16. Items adjacent to walls shall be disconnected by workmen skilled in the appropriate trades, and moved to permit surfaces to be painted. Following completion of painting, items shall be expertly replaced and reconnected.

B. Interior Painting Activities – General Environmental Controls:
   a. Category 1 Activity - Painting or finishing of interior surface in new construction and facilities that have NOT been completed or occupied:
      i. Within 14 days of Occupancy (Pre-Occupation Period): Use paints and finishes which contain 50 grams per liter or less of VOC concentration.
   b. Category 2 Activity - Painting or finishing of interior surface in facilities, which are being renovated and will be VACANT for more than 14 days following the completion work:
   c. Category 3 Activity - Painting or finishing of interior surface in facilities, which will be occupied within 14 days of the completion work:
      i. Use paints and finishes which contain 50 grams per liter or less of VOC concentration.
   d. Category 4 Activity - Painting or finishing of interior surface (touch-up, etc.) in facilities, which are occupied or will be occupied within 24 hours:

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. Allow time between successive coats to permit proper drying per manufacturer's recommendations.

D. Mechanical Work: Use paint and color specified or other manufacturer's equivalent.

E. 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 or finished and has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to assure a finish coat with no burn-through or other defects due to insufficient sealing.
F. Pigmented (Opaque) Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections are not acceptable.

G. Transparent (Clear) Finishes: Use multiple coats to produce a glass-smooth surface film of even luster. Provide a finish free of laps, cloudiness, color irregularity, runs, brush marks, orange peel, nail holes, or other surface imperfections. Provide satin finish for final coats.

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

3.04 CLEANING

A. Cleanup: At the end of each work day, completely remove empty cans, rags, tools, rubbish, and other discarded paint materials from the project site.

B. Do not clean tools, brushes, applicators, and equipment at the project site unless specifically authorized by the District. Do not use sinks in restrooms, janitors’ closets, or in locations where food is prepared.

C. Upon completion of painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping, using care not to scratch or damage adjacent finished surfaces.

D. Touch up and restore finish where damaged.

E. Remove spilled, splashed, or spattered paint from all surfaces.

F. Do not mar surface finish or item being cleaned.

G. Leave storage space clean and in condition required for equivalent spaces in Project.

3.05 PROTECTION

A. Protect work of other trades, whether to be painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as acceptable to the District.

B. Provide "wet paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.06 PAINT SYSTEMS
A. General:
1. Interior paint systems are specified and identified herein by letter and exterior paint systems by number.
2. All materials in any one system shall be products of one manufacturer.
3. Only major areas are scheduled, but miscellaneous items and areas within room or space shall be treated with suitable system.
4. These specifications shall serve as guide and is meant to establish procedure and quality; confer with the Architect to determine exact finish desired.
5. Number of coats scheduled is the minimum requirement.
   a. Additional coat shall be applied at no additional cost if necessary to completely hide base material, produce uniform color, and provide satisfactory finish results.
   b. Sealer may be omitted at previously painted surfaces except at surfaces being patched.

B. Approval of Final Colors: Final coat of paint shall not be applied until colors have been approved by the Architect.

C. Interior Painting Systems: Finish to match existing and to be determined on site.
1. System A: on Gypsum Wallboard Systems
   1 coat Acrylic Latex Enamel Primer
   1 coat:
   a. Walls:
      i. Toilets: Semi Gloss Acrylic Latex Enamel
      ii. Classrooms: Low Sheen Acrylic Latex
      iii. Corridors: Eggshell Acrylic Latex
   b. Ceilings:
      i. Toilets: Gloss Acrylic Latex Enamel
      ii. Classrooms: Flat Acrylic Latex
      iii. Corridors: Flat Acrylic Latex
2. System B: Stained Woodwork (required to match existing wood rail)
   1 coat Solvent Thinned Interior Wood Stain
   1 coat: Manufacturer’s Recommended Sanding Sealer
   2 coats: Catalyzed Polyurethane
3. System C: on Ferrous Metal
   1 coat Acrylic Latex Enamel Primer
   2 coats: Semi- Gloss Acrylic Latex Enamel
4. System D: on Galvanized Metal
   1 coat Etching
   1 coat Galvanized Metal Primer
   2 coats Semi- Gloss Acrylic Latex Enamel
5. System E: on Brick Veneer
   1 coat Latex Block Filler
   2 coats Semi- Gloss Acrylic Latex Enamel
D. Exterior Painting Systems:

1. System 1: on Ferrous Metal: Primer is not required on shop-primed items.
   1 coat Rust-Inhibiting Exterior Primer
   2 coats Exterior Semi-Gloss Acrylic Latex Enamel

2. System 2: on Galvanized Metal (and Hot Dipped Galvanized Metal): Primer is not required on shop-primed items.
   1 coat Devoe, Devran 224HS Epoxy High Build Coating
   2 coats Devoe, Devthane 379H Aliphatic Gloss Enamel

   1 coat Tenemc Tneme-Zinc 90-97 (dry film thickness (DFT) 2.5 to 3.5 mils)
   1 coat Tenemc Tnemec Hi-Build Epoxoline II – N69 (dry film thickness (DFT) 2 to 3 mils)
   1 coat Tenemc Endure Sheild II – 1075U (dry film thickness (DFT) 3 to 5 mils) Semi-gloss

E. Existing Surfaces:
   1 coat 3030 Bond-Prep Pigmented Bonding Primer
   or for extremely chalky surfaces or efflorescence use:
   ICI Sinclair 318 Epoprime Two-Component Waterborne Epoxy Primer
   1 coat Finish coat shall conform to the specified surface being repainted in Articles 3.06C and D.

END OF SECTION