

SECTION 09900

PAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Furnishing of materials and equipment and completion of painting and painter's finish on exposed new and existing exterior and interior surfaces as required to complete the painting and finishing as indicated and specified.
- B. Related Documents: The Conditions of the Contract and Division 1 apply to this section as fully as if repeated herein.
- C. Alternates: Refer to Section 01230 – Alternates, for description of work under this Section affected by Alternates.

1.2 SUBMITTALS

- A. Samples: Prepare samples of colors and textures based upon the Architect's selections and submit them to Architect and District for review and approval.
 - 1. General: After colors are selected, send color schedule and brush-outs to District for review and approval.
 - 2. Painted Wall Samples: Prepare on 8" by 10" matt board in a stair step manner so all required coats show.
 - 3. Painted Wood Samples: Prepare on clear Douglas fir or pine 1" by 4" by 24" long strips, arranged in a stair step manner so all required coats show.
 - 4. Painted Surfaces of Existing Metal Lockers: Paint one existing metal locker to indicate surface preparation, finish and color selected.
 - 5. Stain Finish Samples: Prepare on a 1" by 4" by 24" long sample of the surface type scheduled for staining.
 - 6. Clear Wood Finish Samples: Prepare on a 1" by 4" by 24" long sample of the surface type scheduled for clear finish.
- B. Submit SFUSD standard form "Paint Colors". This form requires the contractor, after review and approval by the Architect, to list the approved colors used at the school for distribution to SFUSD Buildings and Grounds.
- C. Closeout Submittals: Submit paint color formulas and floor plan locations for each to the District Buildings and Grounds Paint Shop as part of the Project Closeout procedures.
- D. Submittal procedures and quantities are specified in Section 01330.

1.3 QUALITY ASSURANCE

- A. The intent and requirements of this section, is that materials, items and surfaces which are normally painted and finished in construction of this type and quality, shall be so included, whether or not said materials, items or surfaces are specifically called out and included in the schedules and notes on the drawings, or is, or is not, specifically mentioned in these specifications.
- B. The following general categories of construction and items are included under other sections, and shall not be a part of this section:
1. Shop prime painting of structural and miscellaneous iron or steel.
 2. Shop prime painting of hollow metal.
 3. Shop finished construction and items.
- C. Paint exposed mechanical, plumbing and electrical construction, which is not factory finished.
- D. The Room Finish Schedules indicated, show the location of interior room surfaces to be painted or finished. The schedule indications are general and do not necessarily define the detail requirements. Include detailed refinements and further instructions as may be given for the required complete finishing of spaces and rooms.
- E. Regulatory Requirements. The quantity of volatile organic compounds (VOC) used in paint products shall not exceed the limits permitted under the current regulations for architectural coatings of the Bay Area Air Quality Management District.
- F. Hazardous Materials:
1. Paints and surface preparation agents such as epoxy paint removers containing methylene chloride (dichloromethane, CAS 75-09-2) are a health hazard and are NOT ALLOWED.
 2. Substitution of materials not meeting the criteria in this section and products containing 1/10th of 1% (0.1%) or more of any (a) OSHA or Cal/OSHA, (b) NTP, or (c) ARC-listed carcinogens shall be clearly identified during the submittal process and require written approval by:
 - a. The SFUSD Buildings and Grounds Paint Shop Supervisor.
 - b. The SFUSD Director of Sustainability.
 - c. The District Architect.
 3. In order to obtain this approval submit a detailed written justification for the substitution, including complete information (technical data sheet (TDS) and Material Safety Data Sheet (MSDS) regarding the proposed alternate material to the SFUSD project manager not less than 10 working days in advance of the planned use of the non-complying material. Failure to provide written justification for the substitution (i.e. submission of TDS and MSDS without further explanation) will be grounds for rejection of the requires without further comment or evaluation.
 4. The use of two-component polyurethane paint systems in occupied school sites is NOT ALLOWED.
 5. All paints and coatings must meet the California Air Resources Board (CARB) and Bay Area Air Quality Management District current standards and regulations.
 6. Recycled paints are NOT ALLOWED.
 7. Interior primers, paints, finishes, and similar coatings:

- a. Must NOT contain greater than 50 grams/liter of Volatile Organic Compounds (VOCs) as determined by EPA Method 24. Zero (0) VOC content paints, or paints with VOC content significantly lower than the 50 gram/liter limit are strongly preferred.
 - b. Must NOT contain 0.1% (volume/volume) or greater of any "Exempt" (non-photoreactive) VOC as listed in 40 CFR 51.100(s)(1).
 - c. Must meet or exceed the requirements of the current edition of Green Seal Standard GS-11.
8. Use of Collaborative for High Performance Schools (CHPS) "Low Emissions" (Section 01350 Qualified) listed paints and coatings meeting the above requirements is strongly recommended.
 9. EPA method 24 VOC testing is standard for all paints. Results can be found on the products Technical Data Sheets and/or labels.
 10. If an architectural coating is recommended for more than one use, the most restrictive VOC limit shall apply.
- G. Mold and mildew retardant to be included in exterior paint; to be specified by Buildings and Grounds Paint shop.
- H. Mill thickness must be in accordance with manufacturer's specifications. When a discrepancy exists regarding the mill thickness and/or type of materials applied, the District may require that the area or material in question be tested. If deficiencies are confirmed, the contractor shall be responsible for the cost of all fees related to the testing and any required paint re-application.
- I. Previously painted surfaces must have a primer designed for previously paint surface.
- J. New work must have a primer/sealer designed for new surface.
- 1.4 DELIVERY, STORAGE AND HANDLING
- A. Delivery:
1. Deliver paint in manufacturer's labeled and sealed containers. Labels shall include manufacturer's name, brand, type, batch number, color of paint and instructions for reducing. Thin only in accordance with printed directions of manufacturer. Thinning shall comply with the regulations of the air pollution control district having jurisdiction.
 2. Do not deliver or use materials other than those specified, or approved.
- B. Storage and Handling: Store paint materials and equipment, when not in actual use, in places specifically assigned for that purpose. Ventilate storage space and provide fire protection. Mix and handle paint in these assigned areas; use metal containers for mixing and handling and designed for safety. Remove paint materials, including rags, tarpaulins, mixers, and empty containers and filled or partially filled containers from the building areas at the close of each working day.
- 1.5 PROJECT CONDITIONS

- A. Environmental Requirements:
 - 1. Exterior Surfaces: Do not apply exterior paint in damp, rainy weather or until the surface has dried thoroughly from the effects of such weather. Do not apply transparent finishes or paint when temperature is below 50 degrees F. Avoid painting surfaces when exposed to hot sunlight.
 - 2. Interior Surfaces: In enclosed spaces, perform the application and drying of paint only when the temperature is 65 degrees F or above and maintained constantly to prevent condensation.
- B. Examine the drawings and the specifications of other trades and consult with the other trades to determine the full extent of surfaces and items that are specified to include shop priming and shop finish painting.

1.6 EXTRA MATERIALS

- A. Furnish extra paint materials from the same production run as the materials applied and in the quantities described below. Package with protective covering for storage and identify with labels describing contents. Deliver extra materials to Owner.
- B. Quantity: Furnish Owner with an additional 10 percent, but not less than one gallon or one case, as appropriate, of each material and color applied.

1.7 WARRANTY

- A. Provide an extended warranty under the provisions of Section 01770.
- B. Warrant painting and finishing against peeling, fading, cracking, blistering, or crazing for a period of 2 years from the date of "Substantial Completion". The written warranty shall include materials and labor. The warranty shall be signed by the paint manufacturer, the painter and the Contractor.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Substitutions: Materials will be considered for substitution subject to requirements specified in Section 01630. Submit chemical formulations of materials proposed for substitution to demonstrate that formulation of substitution is similar to formulation of specified product; or results of test showing that performance of substitution is equivalent to performance of specified product.
- B. Acceptable Products: Unless otherwise specified in the Paint Schedule, acceptable products include the following or equal:
 - 1. Galvanized Metal Primer:

Benjamin-Moore; P04 Acrylic Metal Primer
Dunn-Edwards Corp.; GAPR00 Galv-Alum
Glidden Professional; 4020 Devflex (91 g/L VOC)

Kelley-Moore Paint Co.; 1725 Acry-Shield 100% Acrylic Metal Primer
Sherwin-Williams Co.; DTM Primer/Finish B66W1

2. Ferrous Metal Primer:

Benjamin-Moore; P04 Acrylic Metal Primer
Dunn-Edwards Corp.; BRPR00-1 Bloc-Rust
Glidden Professional; 4020 Devflex (91 g/L VOC)
Kelley-Moore Paint Co.; 5725 DTM Acrylic Primer/Finish
Sherwin-Williams Co.; Pro Industrial ProCryl Universal Metal Primer B66-310

3. Organic Zinc Primer:

Carboline Corp.; Carbozinc 859 Series
Glidden Professional/ Devoe; Catha-Coat 302H (282 g/L VOC)
Kelly-Moore Co.; Amercoat 68HS Zinc Rich Epoxy Primer
Sherwin-Williams Co.; Corothane I Galvapac Two Pack Zinc Primer 65G10/B69D210
Tnemec, Inc.; 90-96 Tneme-Zinc

4. Aluminum Primer:

Benjamin-Moore; P04 Acrylic Metal Primer W
Dunn-Edwards Corp.; GAPR00 Galv-Alum
Glidden Professional; 4020 Devflex (91 g/L VOC)
Kelley-Moore Paint Co.; KM 100 Moisture Cured Urethane Aluminum Primer/Finish
Sherwin-Williams Co.; Pro Industrial ProCryl Universal Metal Primer B66-310

5. Wood Primer - Exterior:

Benjamin-Moore; 166 Superspec Busan 100% Acrylic Exterior Primer
Dunn-Edwards Corp.; EZPR00 E-Z Prime
Glidden Professional; 3210 Gripper (90.3 g/L VOC)
Kelley-Moore Paint Co.; 255 Acry-Shield Exterior Wood Primer
Sherwin-Williams Co.; Ext Latex Wood Primer B42W8041

6. Concrete and Plaster Primer - Exterior:

Benjamin-Moore; 066 Acrylic Masonry Sealer
Dunn-Edwards Corp.; ESPR00 Eff-Stop
Glidden Professional; 6001 Hydro-Sealer (86.4 g/L VOC)
Kelley-Moore Paint Co.; 247 Acry-Shield 100% Acrylic Masonry Primer
Sherwin-Williams Co.; Loxon Exterior Acrylic Masonry Primer A24 Series

7. Intermediate Metal Undercoat - Exterior:

Benjamin-Moore; P04 Acrylic Metal Primer
Dunn-Edwards Corp.; N/A-use finish coat
Glidden Professional; 4020 Devflex (91 g/L VOC)
Kelley-Moore Paint Co.; 1725 Acry-Shield Metal Primer
Sherwin-Williams Co.; Pro Industrial ProCryl Universal Metal Primer B66-310

8. Acrylic Enamel Undercoat - Interior:

Benjamin-Moore; 253 Moorcraft Superspec Latex Enamel Undercoat
Dunn-Edwards Corp.; IKPR00 Interkote
Glidden Professional; 1000 Prep & Prime Enamel Undercoater (92.6 g/L VOC)

Kelley-Moore Paint Co.; 973 Acry-Plex ZERO VOC Interior Wall Primer Undercoat
Sherwin-Williams Co.; Preprite 200 Primer B28W200

9. Vinyl Acrylic Sealer:

Benjamin-Moore; 250 Moorcraft Supercraft Interior Latex Primer
Dunn-Edwards Corp.; VNPR00 Vinylastic
Glidden Professional; 1000 Hi Hide Interior Primer Sealer (92.6 g/L VOC)
Kelley-Moore Paint Co.; 973 Acry-Plex ZERO VOC Interior Wall Primer Undercoat
Sherwin-Williams Co.; Preprite High Build Primer Surfacer B28W601

10. Plaster Primer/Sealer:

Benjamin-Moore; 023 Fresh Start All Purpose Acrylic Primer
Dunn-Edwards Corp.; ESPR00 EffStop
Glidden Professional; 3210 Gripper (90.33 g/L VOC)
Kelley-Moore Paint Co.; 973 Acry-Plex ZERO VOC Interior Wall Primer Undercoat
Sherwin-Williams Co.; Preprite Masonry Primer B28W300

11. Polyurethane Enamel:

Benjamin-Moore; P73 Waterborne Urethane Gloss/P77 Semi Gloss
Dunn-Edwards Corp.; Carbothane 133 Series Semi-Gloss or 134 Series Gloss
Carboline Corp.; D834
Glidden Professional/ Devoe; Devthane 379H (44 g/L VOC)
Kelley-Moore Paint Co.; Rustoleum 9700 System 250 VOC Acrylic Polyester Urethane
Sherwin-Williams Co.; High Solids Polyurethane CA B65J-300/B60V30
Tnemec, Inc.; Endurashield IV
Valspar; 54 Series Urethane Enamel

12. Enamel House Paint - Gloss:

Benjamin-Moore; Impervex 309 Latex High Gloss Metal & Wood Enamel
Dunn-Edwards Corp.; EVERSIELD, Gloss 100% Acrylic Paint (EVSH60)
Glidden Professional; 4208QD Devflex (98 g/L VOC)
Kelley-Moore Paint Co.; 1680 Dura Pox + 100% Acrylic Gloss Enamel
Sherwin-Williams Co.; A-100 Acrylic Gloss AB Series

13. Wood Trim Enamel - Semi-Gloss:

Benjamin-Moore; 170 Moorcraft Superspec Latex House and Trim
Dunn-Edwards Corp.; EVSH50 Evershield Semi-Gloss
Glidden Professional; 2406V Fortis 350 Semi-Gloss (41.63 g/L VOC)
Kelley-Moore Paint Co.; 1250 Acry-Shield 100% Acrylic Exterior Semi-Gloss Enamel
Sherwin-Williams Co.; A-100 Exterior Latex Gloss A8 Series

14. Acrylic Finish Coat - Flat - Exterior:

Benjamin-Moore; 171 Moorcraft Superspec Flat Latex House Paint
Dunn-Edwards Corp.; EVSH10 Evershield Flat
Glidden Professional; 2200V Fortis 350 Exterior Flat (49.25 g/L VOC)
Kelley-Moore Paint Co.; 1240 Acry-Shield 100% Acrylic Exterior Flat Paint
Sherwin-Williams Co.; A-100 Exterior Latex

15. Acrylic Latex Enamel - Semi-Gloss - Interior:

Benjamin-Moore; 276 Superspec Latex Semi-Gloss Enamel
Dunn-Edwards Corp.; SPMA50 Suprema Semi-Gloss
Glidden Professional; 1415V Ultra Hide Semi-Gloss Enamel (Zero VOC)
Kelley-Moore Paint Co.; 1650 Acry-Plex 100% Acrylic Interior Semi-Gloss Enamel
Sherwin-Williams Co.; ProMar 200 Zero VOC Semi-Gloss Enamel B31-2600
16. Acrylic Enamel-Non Blocking - Semi-Gloss - Interior:

Benjamin-Moore; Regal Select Semi Gloss 551
Dunn-Edwards Corp.; SPMA 50 Suprema Semi-Gloss
Glidden Professional; 1406N Ultra Hide-250 Non-Blocking Semi-Gloss (50 g/L VOC)
Kelley-Moore Paint Co.; 1650 Acry-Plex 100% Acrylic Interior Semi-Gloss Enamel
Sherwin-Williams Co.; ProClassic WB Acrylic/Alkyd Semi-Gloss B31 Series
17. Acrylic Latex Enamel - Gloss - Interior:

Benjamin-Moore; Impervex 309 Latex High Gloss Metal & Wood Enamel Int/Ext
Dunn-Edwards Corp.; EVSH60 Evershield Gloss
Glidden Professional/ Devoe; 4208QD Devflex (98 g/L VOC)
Kelley-Moore Paint Co.; 1680 Dura-Poxy + 100% Acrylic Gloss Enamel
Sherwin-Williams Co.; ProMar 400 Latex Gloss B21W10451
18. Acrylic Enamel-Non Blocking - Gloss - Interior:

Benjamin-Moore; Impervex 309 Latex High Gloss Metal & Wood Enamel Int/Ext
Dunn-Edwards Corp.; EVSH60 Evershield Gloss
Glidden Professional/ Devoe; 4208QD Devflex (98 g/L VOC)
Kelley-Moore Paint Co.; 1680 Dura-Poxy + 100% Acrylic Gloss Enamel
Sherwin-Williams Co.; ProMar 400 Latex Gloss B21W10451
19. Wood Stain - Interior:

Benjamin-Moore; Benwood Interior Wood Waterborne Stain 205
Dunn-Edwards Corp.; Minwax Wiping Oil Stain Series
Glidden Professional; Woodpride 1700V Waterborne Stain (>250 g/L VOC)
Kelley-Moore Paint Co.; Woodcraft 2700 100 VOC Series Stain
Sherwin-Williams Co.; Wood Classics Interior Stain A48-200 Series
20. Sanding Sealer - Dark Wood - Interior:

Benjamin-Moore; Benwood Quick Dry Sanding Sealer 413
Dunn-Edwards Corp.; Valspar Professional 275 VOC Sanding Sealer
Glidden Professional; Gemini Pre-Cat 275 VOC Series Clear Lacquer (265 g/L VOC)
Kelley-Moore Paint Co.; 4623 Clear Lacquer Sanding Sealer
Sherwin-Williams Co.; Low VOC Acrylic Lacquer Sanding Sealer Wood Classics
21. Semi-Gloss Lacquer - Dark Wood - Interior:

B-M Lenmar; Duralaq Waterborne Acrylic Lacquer
Dunn-Edwards Corp.; Valspar Professional 275 VOC Semi-Gloss
Glidden Professional; Gemini Pre-Cat 275 VOC Series (265 g/L VOC) Lacquer
Kelley-Moore Paint Co.; 4824 275 VOC Semi-Gloss Precatalyzed Lacquer
Sherwin-Williams Co.; Low VOC Water White Lacquer Semigloss Wood Classics

22. Sanding Sealer - Interior Light Wood:

Benjamin-Moore; Benwood Quick Dry Sanding Sealer 413
Dunn-Edwards Corp.; Valspar Professional 275 VOC Sanding Sealer
Glidden Professional; Gemini Pre-Cat 275 VOC Series Clear Lacquer (265 g/L VOC)
Kelley-Moore Paint Co.; 4623 Clear Lacquer Sanding Sealer

23. Semi-Gloss Lacquer - Interior Light Wood:

B-M Lenmar; Duralaq Waterborne Acrylic Lacquer
Dunn-Edwards Corp.; Valspar Professional 275 VOC Semi-Gloss
Glidden Professional; Gemini Pre-Cat 275 VOC Series Clear Lacquer (265 g/L VOC)
Kelley-Moore Paint Co.; 4824 275 VOC Semi-Gloss Precatalyzed Lacquer
Sherwin-Williams Co.; Low VOC Water White Lacquer Semigloss Wood Classics

24. Engineered Siloxane – Gloss - High performance epoxy siloxane coating which replaces epoxy/aliphatic polyurethane system in one coat:

PPG Amercoat; www.ppgpmc.com; PSX® 700

25. Acoustic Latex Paint:

B-M Coronado; Acoustical Ceiling Dye 1308-1
Dunn-Edwards Corp.; Acoustikote W615
Glidden Professional; 1210V Ultra Hide 150 Flat (49.63 g/L VOC)
Kelley-Moore Paint Co.; 119 KEL-PRO Interior Latex Flat Wall (Non-Bridging)

- C. Sherwin-Williams Co.; ProMar 700 Latex Flat B30 Series Primer and sealer coats may be thinned no more than 10 percent, with paint manufacturer's thinner. Use other materials as they come from the can, except as otherwise approved.
- D. Secure the Color Schedule before undercoating. Unless otherwise specified, tint undercoats slightly to approximate the color of the finish coat. Obtain approval of colors before proceeding with the finishing operations.
- E. Where a specific name is not given for a product or ingredient, provide item of the best quality of the approved manufacturer, which is normally used for the intended purpose.
- F. Mold and mildew retardant to be included in paint; to be specified by Buildings & Grounds Paint Shop.

2.2 COLOR SELECTION

- A. The Architect will select the finish colors and determine the basic hues of all surfaces to be painted or finished.
- B. Colors: Custom colors as selected by the Architect.
- C. After the actual painting and finishing has started, the Architect retains the right to make minor modifications in tone and shade on the various surfaces to suit the actual lighting conditions encountered. Submit additional samples, as required, to assist the Architect in his final selection.

- D. The number of colors to be used in any given room or space, and on the entire project, will be determined by the Architect.

2.3 PAINTING SCHEDULE:

A. New Exterior Surfaces:

1. Galvanized Metals - Gloss: (All galvanized surfaces exposed to sight and/or weather except handrails and guardrails).

1 coat Galvanized Metal Primer
2 coats Enamel House Paint - Gloss

2. Galvanized Handrails and Guardrails:

No finish required on exterior Site handrails. All other exterior handrails such as at balconies, handrails attached to building structures, and handrails at stairs shall be finished as follows:

1 coat Galvanized metal Primer
2 coats Enamel House Paint - Gloss

3. Steel Doors and Frames - High Performance Gloss:

1 coat Organic Zinc Primer*
2 coats Polyurethane Enamel - Semi-Gloss

*Omit primer on surfaces shop primed with organic zinc primer.

4. Iron and Steel - Gloss: (All other iron and steel surfaces exposed to sight and/or weather).

2 coats Ferrous Metal Primer*
1 coat Intermediate Metal Undercoat - Exterior
1 coat Enamel House Paint - Gloss

*Omit first coat on shop-primed surfaces.

5. Aluminum – Gloss: (All surfaces not indicated or specified to receive factory finish):

1 coat Aluminum Primer
1 coat Intermediate Metal Undercoat – Exterior
1 coat Enamel House Paint - Gloss

6. Wood - Painted Semi-Gloss:

1 coat Wood Primer - Exterior
2 coats Wood Trim Enamel - Semi-Gloss

7. Concrete and Plaster - Painted Flat (including integrally colored plaster):

1 coat Concrete and Plaster Primer - Exterior
1 coat Acrylic Finish Coat - Flat - Exterior

B. Existing Exterior Surfaces:

1. Steel Doors and Frames - High Performance Gloss:

1 coat Organic Zinc Primer*
1 coats Polyurethane Enamel - Semi-Gloss

*Omit primer on surfaces shop primed with organic zinc primer.
2. Iron and Steel - Gloss: (All other iron and steel surfaces exposed to sight and/or weather).

1 coat Intermediate Metal Undercoat - Exterior
1 coat Enamel House Paint - Gloss
3. Wood - Painted Semi-Gloss:

1 coat Wood Trim Enamel - Semi-Gloss
4. Concrete and Plaster - Painted Flat (including integrally colored plaster):

1 coat Concrete and Plaster Primer - Exterior
1 coat Acrylic Finish Coat - Flat - Exterior

C. New Interior Surfaces:

1. Metals - Non-Blocking Semi-Gloss: (Including metal doors and frames).

1 coat Ferrous Metal Primer*
1 coat Acrylic Enamel Undercoat - Interior
1 coat Acrylic Enamel-Non Blocking - Semi-Gloss - Interior

*Omit 1st coat on shop-primed surfaces.
2. Metals - Acrylic Latex Enamel Semi-Gloss: (All other metals Including exposed piping, conduit, electrical panels, miscellaneous brackets, bolts, fasteners, supports, prime coated hardware, casing beads, metal grilles and exposed ducts etc., other than plated or factory finished items).

1 coat Ferrous Metal Primer*
1 coat Acrylic Enamel Undercoat - Interior
1 coat Acrylic Latex Enamel - Semi-Gloss - Interior

*Omit 1st coat on shop-primed surfaces.
3. Handrails and Guardrails:

1 coat Ferrous Metal Primer*
1 coat Acrylic Enamel Undercoat - Interior
1 coat Acrylic Latex Enamel - Semi-Gloss - Interior
4. Gypsum Board - Acrylic Latex Enamel Semi-Gloss:

1 coat Vinyl Acrylic Sealer
1 coat Acrylic Enamel Undercoat - Interior

- 1 coat Acrylic Latex Enamel - Semi-Gloss - Interior
 - 5. Plaster - Acrylic Latex Enamel Semi-Gloss:
 - 1 coat Plaster Primer/Sealer
 - 1 coat Acrylic Enamel Undercoat - Interior
 - 1 coat Acrylic Latex Enamel - Semi-Gloss - Interior
 - 6. Concrete - Acrylic Latex Enamel Semi-Gloss:
 - 1 coat Plaster Primer/Sealer
 - 1 coat Acrylic Enamel Undercoat - Interior
 - 1 coat Acrylic Latex Enamel - Semi-Gloss - Interior
 - 7. Hardwood Doors and Hardwood Trim – Stained:
 - 1 coat Wood Stain - Interior
 - 1 coat Sanding Sealer - Interior
 - 2 coats Semi-Gloss Lacquer - Interior
 - 8. Miscellaneous: Construction visible through screen vents and grilles shall have one heavy coat of flat black paint.
- D. Existing Interior Surfaces:
- 1. Metals - Non-Blocking Semi-Gloss: (Including metal doors and frames).
 - 1 coat Acrylic Enamel Undercoat - Interior
 - 1 coat Acrylic Enamel-Non Blocking - Semi-Gloss - Interior
 - 2. Metals - Acrylic Latex Enamel Semi-Gloss: (All other metals Including exposed piping, conduit, electrical panels, miscellaneous brackets, bolts, fasteners, supports, prime coated hardware, casing beads, metal grilles and exposed ducts etc., other than plated or factory finished items).
 - 1 coat Acrylic Enamel Undercoat - Interior
 - 1 coat Acrylic Latex Enamel - Semi-Gloss - Interior
 - 3. Metal Lockers:
 - 1 coat Engineered Siloxane Coating – Gloss – Electrostatic Spray Applied (HVLP)
 - 4. Gypsum Board - Acrylic Latex Enamel Semi-Gloss:
 - 1 coat Acrylic Latex Enamel - Semi-Gloss - Interior
 - 5. Plaster - Acrylic Latex Enamel Semi-Gloss:
 - 1 coat Acrylic Latex Enamel - Semi-Gloss - Interior
 - 6. Concrete - Acrylic Latex Enamel Semi-Gloss:
 - 1 coat Acrylic Latex Enamel - Semi-Gloss - Interior
 - 7. Hardwood Doors and Hardwood Trim - Stained:

1 coat Wood Stain - Interior
1 coat Sanding Sealer - Interior
2 coats Semi-Gloss Lacquer - Interior

8. Wood - Acrylic Latex Enamel - Semi-Gloss: (All other wood surfaces).

1 coat Acrylic Latex Enamel - Semi-Gloss - Interior

9. Acoustical Tile - Painted Flat:

1 coat Acoustic Latex Paint

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to be painted before beginning painting operations. Construction of other trades that has been left or installed in a condition not suitable to receive paint, stain, other specified finish shall be repaired or corrected by the applicable trade before painting. Painting of defective or unsuitable surface implies acceptance of the surface.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
1. Concrete: 12 percent.
 2. Masonry (Clay and CMU): 12 percent.
 3. Wood: 15 percent.
 4. Portland Cement Plaster: 12 percent.
 5. Gypsum Board: 12 percent.
- C. Portland Cement Plaster Substrates: Verify that plaster is fully cured.
- D. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- E. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- F. Proceed with coating application only after unsatisfactory conditions have been corrected.
1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Protection:
1. Existing Signage: Remove and reinstall any existing signage to allow for painting of substrate surfaces, such as room numbers, fire life safety equipment, boiler room, switch plate covers, outlet covers, etc. See Section 10400 for new signage.
 2. Before painting remove hardware, accessories, plates, lighting fixtures and similar items or provide protection of such items. On completion of each space, replace

above items. Use only skilled mechanics for removing and connecting above items. Protect adjacent surfaces as required or directed.

3. Wherever painting and finishing is being performed, protect floors, surfaces and items from damage by the painting operations. Provide clean drop cloths wherever necessary. Orderly and carefully arrange and protect supplies, materials, paints, and containers.

B. Surface Preparation:

1. **General:** Surfaces shall be clean and dry before painting and finishing. Remove dirt and dust by stiff bristle brush and wiping with cloths. Remove oil and grease by cleaning using a materials and methods recommended by the paint manufacturer. Thoroughly rinse surfaces with water that have been contaminated with chemicals. Apply the first coat of paint as soon as possible after cleaning and drying the surfaces.
2. **Shop Primed Ferrous Metal Surfaces:** Wash free of grease, dirt, oil, and dust, using materials and methods recommended by the paint manufacturer. Repair shop primed surfaces and touch up wherever shop priming is damaged, and at all welds.
3. **Galvanized Metal Surfaces:** Pretreat surfaces by cleaning with a vinyl wash coat or wash and etch with a phosphoric acid etching compound, as recommended by the paint manufacturer. If phosphoric acid etching is used, rinse with water and allow to dry. If vinyl wash coat is used, apply primer the same day as vinyl wash coat is applied.
4. **Concrete Surfaces:** Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions. Thoroughly clean form oil and other deposits from form surfaces and remove laitance and powder. Do not start painting operations until surfaces are clean and sound and thoroughly cured and dried.
5. **Wood Surfaces:** Sand smooth and clean before application of the first coat. Putty and spackle smooth, holes, splits and scratches after first coat application.
 - a. **Exterior Wood Surfaces:** Before finishing, all exposed portions of finish carpentry shall be cleaned and have handling marks or effects of exposure to moisture removed.
6. **Plaster Surfaces:** Fill minor cracks, holes or other imperfections with patching plaster or spackle, and smooth off to match adjoining surfaces. Treat excessive lime conditions with solution of 3 to 4 ounces of zinc sulphate to each gallon of water. After application, allow solution to dry, clean off resulting crystalization with stiff dry brushes.
7. **Gypsum Board, Hardboard, and Other Similar Materials:** Dust down with brush or with fine sandpaper.

C. Preparation of Existing Surfaces:

1. Clean surfaces of loose dirt and dust. Remove loose paint by sanding, wire brushing or scraping. Sand these areas to feather edges smooth with adjacent surfaces.

Wash greasy areas with a strong detergent solution as recommended by the paint manufacturer.

2. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, organic matter, and incompatible paints and encapsulants.
3. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
4. Fill holes and cracks in plaster and gypsum board surfaces with a spackling compound. Voids around doors, windows, fixtures, other permanent items shall be calked with sealant compound specified in Section 07920. Spot prime patched and repaired areas with a primer-sealer as recommended by the paint manufacturer for the surfaces to be refinished.
5. Fill holes and blemished wood surfaces with wood patching compound and spot prime.
6. Existing Wood Floors: Strip old finish from existing flooring down to bare wood using materials and methods recommended by the finish material manufacturer. Machine sand to remove offsets and non-level conditions. Vacuum clean and immediately apply finish.
7. Existing Metal Lockers: Clean surfaces of all foreign material. Smooth, hard or glossy coatings and surfaces shall be dulled by abrading the surface. Apply a test area, allowing paint to dry 7 days before testing adhesion. If adhesion is poor, or if new coating attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface.

3.3 APPLICATION

- A. Application: Apply paints by brush or roller except as otherwise specified. Use paint of proper consistency for each coat, well brushed out or flowed on to obtain a uniform finish free from holidays, brush marks, sags, crawls, or other defects.
- B. Materials shall be applied in accordance with the approved manufacturer's directions and specifications. Accomplish thinning required in the manner and with the type of reducer recommended by manufacturer.
- C. The proper number of coats of paints and other finishes specified, properly applied, will result in the desired effect. Should this effect not be attained, apply additional coats of the specified materials and methods.
- D. Each coat of paint shall vary in shade from the proceeding coat in a manner that will make each coat readily distinguishable without affecting the finish color.
 1. Tinted primers to match the color of the finish coat is NOT ALLOWED.
- E. Sand enamel and varnish coats smooth before recoating. Repair defects and unevenness in previously applied coatings before applying the next coat.

- F. Paint and finish surfaces indicated in the Room Finish Schedule and as specified herein. Where questions occur as to the indicated surfaces inform the Architect and receive clarification there from.
- G. Millwork: Prime or back-paint (other than shop painted or prefinished surfaces) within 24 hours after delivery to Project site. Apply 2 coats paint (primer and filler or undercoat) on top and bottom edges of doors after being cut and fit but preferably before being hung. Prime or seal edges and cut surfaces of boarding or paneling.
- H. Wood Exterior Finish, Including Frames, Trim, Siding and Natural-Finished Wood: Back-prime surfaces which will be concealed after installation. Use Olympic clear prime seal and apply immediately upon delivery of material to project.
- I. Sheet Metal: Back-prime raw sheet metal before installation.
- J. Existing Metal Lockers:
 - 1. Mixing: Mix 2-part fast cure epoxy in accordance with manufacturer's instructions.
 - 2. Application: After preparation as specified in Para. 3.2.C.7, refinish existing lockers using a High Volume Low Pressure electrostatic sprayer.
 - 3. Do not paint over number plates on existing locker doors.

3.4 CLEANING, TOUCH-UP AND REFINISHING

- A. Touch-Up and Refinishing: Touch up, refinish, or repaint runs, sags, misses, holidays, stains and other defects in the painted surfaces, including inadequate coverage and mil thickness as necessary to produce a first-class workmanlike job.
- B. Cleaning:
 - 1. Immediately remove accidental spatter and spillage and restore the damaged surfaces to perfect condition. Completely remove paint spots and spatter on glass, porcelain fixtures, and other surfaces and clean the surfaces.
 - 2. At the completion of finishing operations in each space or room, remove materials, supplies, debris and rubbish from the areas and leave in a clean, orderly condition.

END OF SECTION

12/18/13