1.1 SUMMARY

A. Section includes:

1. Painting and finishing all interior and exterior exposed surfaces throughout the
   Project, except as excluded in Paragraphs B and C below.

2. Surface preparation, priming and coats of paint specified herein are in addition
   to shop priming and surface treatment specified in other Sections.

3. Paint all exposed surfaces whether or not colors are designated, except where
   the natural finish of the material is obviously intended or specifically noted as a
   surface not to be painted. Where items or surfaces are not specifically
   mentioned, paint these the same as adjacent similar materials or areas.

B. Painting specified elsewhere:

1. Shop priming of ferrous metal items included under miscellaneous metal
   fabrications, hollow metal work, and similar work.

2. Finished (not primed) mechanical and electrical equipment including light
   fixtures, switchgear and distribution cabinets, except as specified in Article 3.4
   herein.

3. Windows, storefronts and entrances.

4. Toilet compartments and screens.

5. Exterior wall louvers.


7. Loading dock bumpers.


C. Painting not included: Do not paint the following surfaces.

1. Insulation and its facing.

2. Concrete and CMU, except where specified.

3. Sprayed fireproofing.

4. Roofing.

5. Steel decking.

6. Finish hardware, except those items noted USP.

7. Finished metal surfaces such as anodized aluminum, stainless steel, chromium-
   plating, copper, lead coated copper, bronze, brass and similar finished materials
   will not require finish painting.
PAINTING

8. Painting is not required on walls or ceilings in concealed and inaccessible areas, such as furred areas, pipe spaces, duct shafts and elevator shafts.

9. Operating parts, labels and nameplates:
   a. Do not paint moving parts of operating units, mechanical and electrical parts, such as valve and damper operator linkages, sinkages, sensing devices, motor and fan shafts.
   b. Do not paint over any nameplates, Code required labels, such as UL and FM, or any equipment identification, performance rating, name, or nomenclature plates.

1.2 SUBMITTALS

A. Procedure: In accordance with Section 01300.

B. Materials:
   1. Copies of a complete materials list, identified by manufacturer name and product label or stock number.
   2. Prepare list in the form of a repetition of the specified paint finishes, with the addition of the specific product intended for each coat.

C. Color samples:
   1. 8-1/2 in. by 11 in. samples of each color for painted finishes.
   2. For transparent finishes, prepare the samples on wood specie which will be used for the Project; 12 in. for lumber; 12 in. square for veneered panels.

D. Certification: Duplicate copies of manufacturer affidavit with each shipment of materials delivered to the job site certifying that each material furnished complies with specified requirements.

1.3 QUALITY ASSURANCE

A. General:
   1. All painting and coating materials and application methods shall comply with the requirements in effect at the time of application of the Southern California Air Quality Management District (SCAQMD), including, but not limited to:
   2. Volatile organic compounds shall be approved for use at time of application by EPA and applicable air quality management district for limitations of volatile organic compounds for all architectural coatings.
   3. Materials not bearing manufacturer identification as a best-grade product will not be acceptable.

B. Sample panels:
1. Apply sample paint finishes (approximately 10 ft. square) of each color scheme to wall areas, as directed by the Client/Client Representative (CR).

2. Obtain CR's approval of sample panels before proceeding further. Approved sample panels will be used as a standard for the Project, and if properly identified may remain a part of the Work.

3. Final acceptance of colors will be from job-applied samples.

C. Sheen: The terms used in these Specifications refer to the following gloss ranges when tested in accordance with ASTM D 523 test method.

<table>
<thead>
<tr>
<th>Name</th>
<th>Test Method</th>
<th>Gloss Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat</td>
<td>60 meter</td>
<td>0 - 7</td>
</tr>
<tr>
<td>Sheen</td>
<td>60 meter</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Eggshell</td>
<td>60 meter</td>
<td>25 - 30</td>
</tr>
<tr>
<td>Semi-gloss</td>
<td>60 meter</td>
<td>55 - 60</td>
</tr>
<tr>
<td>Gloss</td>
<td>60 meter</td>
<td>85 - 90</td>
</tr>
</tbody>
</table>

1.4 JOB CONDITIONS

A. Environmental requirements:

1. Comply with paint manufacturer recommendations for environmental conditions regarding paint application.

2. Provide adequate heating and ventilating to maintain environmental conditions recommended by paint manufacturer.

3. Do not apply finish in areas where dust is being generated.

B. Protection:

1. Provide drop cloths, shields, barricades and other protection necessary to safeguard adjacent surfaces not to be painted.

2. Post signs immediately after painting.

3. Provide and maintain protection as required to protect finished work from damage until its acceptance.

C. Illuminate interior work area during painting to provide the same or greater level of illumination, as required to properly perform the work, as will occur in the room or space after the building is in operation.

1.5 HANDLING

A. Procedure: In accordance with Section 01600.

B. General: Take all necessary precautions to prevent fire. Remove soiled rags and other waste items from premises at end of each day's work.

1.6 WARRANTY
PAINTING

A. Color of exterior surfaces painted as part of the work of this Section shall, at the end of one year, have remained free from serious fading when compared to a control sample of the original paint.

B. Paint shall have its original adherence at the end of one year and there shall be no evidence of blisters, running, peeling, scaling, chalking, streaks, or stains at the end of this period.

C. Washing painted surfaces with alkali-free soap and water shall remove surface dirt from painted surfaces without producing deteriorating effects.

1.7 MAINTENANCE MATERIAL

A. With closeout submittals deliver one identified unopened gallon of each type and color of paint material used on the Project to the Owner for future paint touch-up.

B. In addition to manufacturer label, identify with room number, floor or area, type of paint, color and sheen, as applicable, for future identification.

PART 2 PRODUCTS

2.1 PAINT

A. Definition: The term "paint" as used in this Section means all coating system components, including primers, emulsions, enamels, varnishes, stains, lacquers, sealers, fillers, and other applied materials whether used as prime, intermediate or finish coat.

B. Quality and manufacture: Insofar as practicable each paint shall be factory-mixed to match approved samples and colors, and be of a consistency permitting immediate application. Use best quality grade regularly manufactured by one of the following, except as may be specified below:

1. Paints and Interior Stains:
   a. Dunn Edwards.
   b. Frazee.
   c. Sherwin Williams.
   d. Or equal.

2. Color pigments: Pure, non-fading, applicable types to suit substrates and service indicated.

3. Lead content: Not permitted.

C. Paint uniformity and compatibility:

1. Paint shall be boxed at the job site or factory-batched to ensure color uniformity and consistency. This includes the required maintenance materials.
   a. Review other Sections of these Specifications, in which prime coats are specified, and manufacturer data for shop-primed surfaces to be painted.
   b. Be responsible for the compatibility of the total coating system. Provide finish coats which are compatible with prime paints used.
2. Provide barrier coats over incompatible primer or remove and reprime as required.

3. Products of more than one approved manufacturer may be used, except that all products applied on a surface shall be by the same manufacturer.

2.2 COLORS

A. Colors and sheen not listed on the Materials Selection Palette will be selected by the Client/CR.

B. Deep tones or accent colors will not exceed 10% of surfaces to be painted.

PART 3 EXECUTION

3.1 INSPECTION

A. Examine surfaces to be painted for conditions that would adversely affect the permanence and quality of this work. Make sure that unsuitable conditions are corrected before proceeding with painting.

3.2 SURFACE PREPARATION

A. Neutralize alkali conditions.

B. Remove efflorescence, rust, loose mill scale, parting compounds, loose paint, foreign splatters, burrs or nibs, stains or any other contamination or condition that would adversely affect the performance of the coating system.

C. Prepare surfaces to receive the specified finishes in compliance with the paint manufacturer printed instructions and the following:

1. Galvanized steel:
   a. Clean with commercial phosphoric acid solution or prepared product approved by the paint manufacturer for pretreatment.
   b. Then recoat within the time limit recommended by the primer manufacturer.

2. Shop-coated metal: Remove oil, grease, dirt and foreign matter. Spot prime abraded surfaces with compatible primer.

3. Shop-finished metal: Sand to provide a mechanical bond with field applied finishes, or use a commercial preparation specifically formulated to improve paint bond.

4. Unprimed ferrous metal: Remove rust, mill scale, oil and other foreign matter by solvent or mechanical cleaning.

5. Aluminum: Remove foreign matters and clean with mineral spirit.

6. Factory-primed equipment: Repair damaged primer; remove rust and clean to bright metal where appropriate. Sand or etch primer to permit bonding of finish coats. Clean surfaces thoroughly before applying additional coats.

7. Plaster and concrete:
PAINTING

a. Clean surfaces of dirt, laitance, encrustation and foreign matter.

b. Patch cracks, holes, pits and other imperfections, not patched under other Sections, flush and smooth with adjacent surfaces.

c. Do not apply sealer or paint when the moisture content of the surfaces to be painted exceeds 8%. Touch-up suction spots after priming with an additional prime coat until all surfaces show a uniform coating.

8. Gypsum board:

a. Remove dust, loose particles or other matter that would prevent proper paint adhesion.

b. Check to see that joints and screw heads are properly covered with joint compound and sanded smooth and flush with adjacent surfaces.

9. Wood:

a. Clean wood surfaces of dirt, oil, or other foreign substances;

b. Sandpaper smooth surfaces exposed to view, and dust clean with recommended knot sealer. Remove handling marks and raised grain before application of priming coat.

c. Fill nail holes, cracks and depressions with wood filler, colored to match finish for wood scheduled to receive a transparent finish. Use a tack cloth on wood to receive a transparent finish to remove sanding dust.

d. Prime, stain, or seal wood and plywood required to be site-painted immediately upon delivery to project; prime edges, ends, faces, undersides, and backsides of wood; minimum one coat.

e. Provide second coat at end grain edges of any plywood close to grade and which serve as drip edge for siding system.

f. After priming, fill holes and imperfections in finish surfaces with putty or plastic woodfiller; sandpaper smooth when dry.

10. Other materials not covered above: Prepare to receive paint in compliance with the paint manufacturer printed instructions.

D. Hardware:

1. Remove all hardware, hardware accessories, machined surfaces, plates, lighting fixtures and similar items in place and not to be painted, or provide surface-applied protection prior to surface preparation and painting after painting, reinstall removed items.

2. Following completion of painting each space or area, reinstall the removed item by workmen skilled in the trades involved.

E. Phasing: Program cleaning and painting so that dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

3.3 PAINT PREPARATION
PAINTING

A. Open paint containers only as required for use. Mix paint in designated areas.

B. Thoroughly stir and agitate paint to uniformly smooth consistency suitable for proper application.

C. Do not reduce, change or use any materials except in compliance with manufacturer printed instructions.

D. In all cases, prepare and handle paint to prevent deterioration and inclusion of foreign matter.

3.4 APPLICATION

A. General: Apply paint in accordance with manufacturer directions; use applicators and techniques best suited for substrate and type of material being applied. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to a durable paint film.

1. Apply stain-killing primer, when stains or blemishes show through final coat, until paint is a uniform finish, color and appearance.

2. Provide extra attention to assure dry film thickness at corners and crevices is equivalent to that of flat surfaces.

3. Except for prefinished doors, finish top, bottom and side edges of wood doors the same as faces promptly upon delivery to the jobsite.

   a. Where the 2 faces of doors differ in color or finish, finish the edges to match the face visible when the door is open.

4. Apply paint only under conditions that will insure finishes free from blemishes and defects. Leave corners with no undue amount of paint buildup.

5. Use a slightly different shade for each coat of paint so that it may be readily identified.

6. Primer and intermediate coats shall be unscarred and completely integral when succeeding coats are applied. Sand lightly end dust between each succeeding enamel or varnish coat to remove defects visible from a distance of 5 ft.

7. Remove paint spillage and spatters on adjacent surfaces so as not to damage the surface being cleaned.

   a. Perform patching and repairs required because of painting operations.

   b. Refinish entire panel or assembly where portion of finish has been damaged or is not acceptable to the Architect.

8. Paint interior surfaces of ducts, where visible thru registers and grilles, with a flat non-specular black paint.

9. Unless otherwise directed by the Architect, spray-paint exposed surfaces of ceiling diffusers, air return grilles, speakers and other electrical and mechanical items, except smoke detectors and sprinkler heads, in painted ceilings to match the ceilings, whether these items are primed or factory-finished.

10. Number of coats:
PAINTING

a. The number of coats and paint film thickness required is the same regardless of the application method. Do not apply succeeding coats until the previous coat has completely dried.

b. The number of coats specified is the minimum required for complete coverage and uniformity of color.

c. Apply additional coats when undercoats, stains, or other conditions show through the final finish until the finish is of uniform color and appearance.

11. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only.

12. Paint interior surfaces, which are a continuation of exterior surfaces, subject to exterior exposure (such as an out-swinging door), with the applicable exterior coating system.

13. For opaque finishes, completely cover surfaces to be painted to provide an opaque, smooth surface of uniform finish, color, appearance, and coverage. Painted surfaces with cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness or other imperfections will not be acceptable.

14. Completed work shall match approved samples, as determined by the Client/CR. Remove, refinish, or repaint work not complying with specified requirements.

B. Application method: In general the application method, brush, roller or spray is the Contractor's option, except that Frazee Mirro Glide shall be sprayed.

C. Priming: Prime bare metal scheduled to be painted, and not embedded in concrete and masonry, immediately upon delivery to the site.

1. Time lapse between priming and application of second coat shall be as short as possible.

D. Shop-primed metal:

1. Apply 2 finish coats of paint to match adjoining surfaces to shop primed mechanical and electrical equipment. This work includes but is not limited to interior of fire hose cabinets, air grilles, ceiling diffusers, electrical and telephone panels. This includes back sides of access panels and removable or hinged covers to match exposed surfaces.

2. Paint conduits, outlets and pull boxes, and mechanical equipment exposed to view, such as covered and uncovered piping and ductwork, pumps, compressors, air conditioning equipment and tanks as specified in this Section.

3. Paint the back side of access panels, removable or hinged covers to match the exposed surfaces.

E. Miscellaneous painting: Surfaces to be painted and not specifically described herein, shall be painted with a product specifically manufactured or prepared for the material and surface to be painted with a prime and 2 finish coats.

3.5 PAINT FINISH SCHEDULE
PAINTING

A. Finish all surfaces in compliance with the following schedule, using products by
Prascoo Paint Co., Dunn Edwards or Sherwin Williams, except as otherwise specified.