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END OF SECTION	
SECTION 099113 EXTERIOR PAINTING	
PART 1 GENERAL	
1.01 SECTION INCLUDES	
A. Surface preparation.	
B. Field application of paints.	
C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:	
1. Exposed surfaces of steel lintels and ledge angles.	
a. Mechanical and Electrical:	
1. On the roof and outdoors, paint equipment exposed to weather or to view, including factory-finished materials.	
D. Do Not Paint or Finish the Following Items:	
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.	
2. Items indicated to receive other finishes.	
3. Items indicated to remain unfinished.	
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.	
5. Non-metallic roofing and flashing.	
6. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, zinc, and lead.	
7. Glass.	
8. Concealed pipes, ducts, and conduits.	
1.02 REFERENCE STANDARDS	
A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency, current edition.	
B. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials; 2020.	
C. MPI (APL) - Master Painters Institute Approved Products List; Master Painters and Decorators Association; Current Edition.	
D. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.	
E. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).	
F. SSPC-SP 2 - Hand Tool Cleaning; 2024.	
G. SSPC-SP 6 - Commercial Blast Cleaning; 2007.	
1.03 SUBMITTALS	
A. Product Data: Provide complete list of products to be used, with the following information for each:	
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").	
2. MPI product number (e.g. MPI #47).	
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.	
4. Manufacturer's installation instructions.	
B. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.	
1. Where sheen is specified, submit samples in only that sheen.	
2. Paint color submittals will not be considered until color submittals for major materials not to be painted, such as masonry, have been approved.	
C. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.	
1. Extra Paint and Finish Materials: 1 gallon (4 L) of each color, from the same product run, store where directed.	
2. Label each container with color in addition to the manufacturer's label.	
1.04 QUALITY ASSURANCE	
A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience and approved by manufacturer.	
1.05 DELIVERY, STORAGE, AND HANDLING	
A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.	
B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.	
C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.	
1.06 FIELD CONDITIONS	
A. Do not apply materials when surface and ambient temperatures are outside the paint product manufacturer's temperature ranges.	
B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.	
C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.	
D. Minimum Application Temperatures for Latex Paints: 50 degrees F (10 degrees C) for exterior; unless required otherwise by manufacturer's instructions.	
E. Provide lighting level of 80 ft candles (860 lux) measured mid-height at substrate surface.	
PART 2 PRODUCTS	
2.01 MANUFACTURERS	
A. Provide paints and finishes from the same manufacturer to the greatest extent possible.	
1. If a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.	
B. Paints:	
1. Behr Process Corporation: www.behr.com/#file .	
2. Dow: www.dow.com/#file .	
3. PPG Paints: www.ppgpaints.com/#file .	
4. Sherwin-Williams Company: www.sherwin-williams.com/#file .	
C. Primer Sealers: Same manufacturer as top coats.	
2.02 PAINTS AND FINISHES - GENERAL	
A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.	
1. Where MPI paint numbers are specified, provide products listed in Master Painters Institute Approved Product List, current edition available at www.paintinfo.com , for specified MPI categories, except as otherwise indicated.	
2. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.	
3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.	
4. Supply each paint material in quantity required to complete entire project's work from a single production run.	
5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.	
B. Volatile Organic Compound (VOC) Content:	
1. Provide paints and finishes that comply with the most stringent requirements specified in the following:	
a. 40 CFR 59, Subpart D-National Volatile Organic Compound Emission Standards for Architectural Coatings.	
b. Architectural coatings VOC limits of the State in which the Project is located.	
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.	
C. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.	
D. Colors: To be selected from manufacturer's full range of available colors.	
1. Selection to be made by Architect after award of contract.	
2. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Owner.	
2.03 PAINT SYSTEMS - EXTERIOR	
A. Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including primed metal.	
1. Two top coats and one coat primer.	
2. Top Coat(s): Exterior Latex; MPI #10, 11, 15, 119, or 214.	
3. Primer: As recommended by top coat manufacturer for specific substrate.	
B. Wood, Opaque, Latex, 3 Coat:	
1. One coat of latex primer sealer.	
2. Semi-gloss: Two coats of latex enamel.	
C. Ferrous Metals, Unprimed, Latex, 3 Coat:	
1. Two top coats and one coat of primer.	
2. Semi-gloss Top Coat(s): Exterior Latex; MPI #10, 11, 15, 119, or 214.	
D. Ferrous Metals, Primed, Latex, 2 Coat:	
1. Two top coats.	
2. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.	
3. Semi-gloss Top Coat(s): Exterior Latex; MPI #10, 11, 15, 119, or 214.	
E. Galvanized Metals, Latex, 3 Coat:	
1. Two top coats and one coat of galvanizing primer.	
2. Semi-gloss Top Coat(s): Exterior Latex; MPI #10, 11, 15, 119, or 214.	
2.04 PRIMERS	
A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.	
1. Anti-Corrosive Alkyd Primer for Metal; MPI #79.	
2. Alkyd Primer for Galvanized Metal.	
3. Rust-Inhibitive Water Based Primer; MPI #107.	
4. Stain Blocking Primer; MPI #136.	
2.05 ACCESSORY MATERIALS	
A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.	
B. Patching Material: Latex filler.	
C. Fastener Head Cover Material: Latex filler.	
PART 3 EXECUTION	
3.01 EXAMINATION	
A. Do not begin application of paints and finishes until substrates have been properly prepared.	
B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.	
C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.	
D. Test shop-applied primer for compatibility with subsequent cover materials.	
E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:	
1. Fiber Cement Siding: 12 percent.	
2. Masonry, Concrete, and Concrete Masonry Units: 12 percent.	
3. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.	
4. Concrete Floors and Traffic Surfaces: 8 percent.	
3.02 PREPARATION	
A. Clean surfaces thoroughly and correct defects prior to application.	
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.	
C. Remove or repair existing paints or finishes that exhibit surface defects.	
D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.	
E. Seal surfaces that might cause bleed through or staining of topcoat.	

G. Galvanized Surfaces:	
1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.	
2. Prepare surface according to SSPC-SP 2.	
H. Ferrous Metal:	
1. Solvent clean according to SSPC-SP 1.	
2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.	
3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 Commercial Blast Cleaning. Protect from corrosion until coated.	
I. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.	
3.03 APPLICATION	
A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.	
B. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".	
C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.	
D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.	
E. Apply each coat to uniform appearance.	
F. Sand metal surfaces lightly between coats to achieve required finish.	
G. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.	
H. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.	
3.04 CLEANING	
A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.	
3.05 PROTECTION	
A. Protect finishes until completion of project.	
B. Touch-up damaged finishes after Substantial Completion.	
END OF SECTION	
SECTION 099123 INTERIOR PAINTING	
PART 1 GENERAL	
1.01 SECTION INCLUDES	
A. Surface preparation.	
B. Field application of paints.	
C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:	
1. Aluminum and galvanized metal.	
2. Structural steel columns, joists, trusses, beams, miscellaneous and ornamental iron, structural iron, and ferrous metal.	
3. Wood.	
4. Gypsum board.	
5. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.	
6. Prime surfaces to receive wall coverings.	
7. Mechanical and Electrical:	
a. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.	
b. In finished areas, paint shop-primed items.	
c. Paint interior surfaces of air ducts that are visible through grilles and louvers with one coat of flat black paint to visible surfaces.	
d. Paint dampers exposed behind louvers, grilles, to match face panels.	
D. Do Not Paint or Finish the Following Items:	
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.	
2. Items indicated to receive other finishes.	
3. Items indicated to remain unfinished.	
4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.	
5. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, and lead items.	
6. Floors, unless specifically indicated.	
7. Ceramic and other tiles.	
8. Glass.	
9. Acoustical materials, unless specifically indicated.	
10. Concealed pipes, ducts, and conduits.	
1.02 DEFINITIONS	
A. Comply with ASTM D16 for interpretation of terms used in this section.	
1.03 REFERENCE STANDARDS	
A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency, current edition.	
B. ASTM D4442 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2003.	
C. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials; 2020.	
D. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.	
E. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).	
F. SSPC-SP 2 - Hand Tool Cleaning; 2024.	
G. SSPC-SP 6 - Commercial Blast Cleaning; 2007.	
1.04 SUBMITTALS	
A. Product Data: Provide complete list of products to be used, with the following information for each:	
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel").	
2. MPI product number (e.g. MPI #47).	
3. Cross-reference to specified paint system products to be used in project; include description of each system.	
4. Manufacturer's installation instructions.	
B. Samples: Submit four paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.	
1. Where sheen is specified, submit samples in only that sheen.	
2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens not required.	
3. Allow 30 days for approval process, after receipt of complete samples by Architect.	
4. Paint color submittals will not be considered until color submittals for major materials not to be painted, such as masonry, have been approved.	
C. Certification: By manufacturer that paints and finishes comply with VOC limits specified.	
D. Manufacturer's Instructions: Indicate special surface preparation procedures.	
E. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each coat and finish used.	
F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.	
1. Extra Paint and Finish Materials: 1 gal (4 L) of each color, from the same product run, store where directed.	
2. Label each container with color in addition to the manufacturer's label.	
1.05 QUALITY ASSURANCE	
A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience.	
1.06 MOCK-UP	
A. Provide one accent wall as directed by Architect to demonstrate color and finish.	
B. Provide door and frame assembly illustrating paint color, texture, and finish.	
C. Locate where directed by Architect.	
D. Mock-up may remain as part of the work.	
1.07 DELIVERY, STORAGE, AND HANDLING	
A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.	
B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.	
C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.	
D. Handling: Maintain a clean, dry storage area to prevent contamination or damage to materials.	
1.08 FIELD CONDITIONS	
A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.	
B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.	
C. Provide lighting level of 80 ft (860 lux) measured mid-height at substrate surface.	
PART 2 PRODUCTS	
2.01 MANUFACTURERS	
A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.	
B. Paints:	
1. Behr Process Corporation: www.behr.com/#file .	
2. Pittsburgh Paints: www.ppgpaints.com/#file .	
3. Sherwin-Williams Company: www.sherwin-williams.com/#file .	
C. Primer Sealers: Same manufacturer as top coats.	
D. Substitutions: See Section 016000 - Product Requirements.	
2.02 PAINTS AND FINISHES - GENERAL	
A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.	
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.	
2. Provide 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.	
3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.	
4. Supply each paint material in quantity required to complete entire project's work from a single production run.	
5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.	
B. Volatile Organic Compound (VOC) Content:	
1. Provide paints and finishes that comply with the most stringent requirements specified in the following:	
a. 40 CFR 59, Subpart D-National Volatile Organic Compound Emission Standards for Architectural Coatings.	
b. Architectural coatings VOC limits of the State in which the Project is located.	
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.	
C. Flammability: Comply with applicable code for surface burning characteristics.	
D. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.	
E. Colors: To be selected from manufacturer's full range of available colors.	
1. Selection to be made by Architect after award of contract.	
2. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Owner.	
3. Extend colors to surface edges; colors may change at any edge as directed by Architect.	

2.03 PAINT SYSTEMS - INTERIOR	
A. Metal: Metal: Structural steel columns, joists, trusses, beams, miscellaneous and ornamental iron, structural iron, and ferrous metal.	
1. Latex Systems: One primer coat and two top coats.	
a. Primer: Sherwin-Williams Company; Pro Industrial Pro-Cryl Universal Primer, B6601310 Series.	
b. Top Coats: Primer: Sherwin-Williams Company; Pro Industrial Acrylic Semi-Gloss, B66-650 Series.	
B. Gypsum Board:	
1. Latex Systems, Semi-gloss: One primer coat and two top coats.	
a. Primer: Sherwin-Williams Company; ProMax Zero VOC Interior Latex Primer B28W2600.	
b. Top Coats: Sherwin-Williams Company; Scuff Tuff Interior Waterbased Enamel, Semi-Gloss, S24-50 Series.	
2. Epoxy Systems, Water Based:	
a. One primer coat and two top coats.	
b. Primer: Sherwin-Williams Company; ProMax Zero VOC Interior Latex Primer B28W2600.	
c. Top Coats: SSherwin-Williams Company; Pro Industrial Pre-Catalyzed Waterbased Epoxy, K46 Series.	
C. Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metals and wood:	
1. Two top coats and one coat primer.	
2. Top Coat(s): Interior Epoxy-Modified Latex; MPI #115 or 215.	
D. Dry Fall: Metals; exposed structure and overhead-mounted services in utilitarian spaces, including shop primed steel deck, structural steel, metal fabrications, galvanized ducts, galvanized conduit, and galvanized piping.	
1. Shop primer by others, unless otherwise indicated.	
2. Primer: Metal other than ceilings and ductwork:	
a. Basis of Design: Sherwin-Williams; Pro Industrial Pro-Cryl Universal Primer; B66-1310 Series.	
3. Two top coats.	
4. Top Coat: Latex Dry Fall.	