

## SECTION 09 5100 - ACOUSTICAL CEILINGS

- 1.01 ADMINISTRATIVE REQUIREMENTS
- Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient test is provided, dust and generating activities have terminated, and overhead work is completed, tested, and approved.
  - Do not install acoustical units until after interior wet work is dry.
- 1.02 SUBMITTALS
- Product Data: Provide data on suspension system components and acoustical units.
  - Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
    - See Section 01 6000 - Product Requirements, for additional provisions.
    - Extra Acoustical Units: Quantity equal to 5 percent of total installed.
- 1.03 QUALITY ASSURANCE
- Supersession System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience.
  - Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience.
- 1.04 FIELD CONDITIONS
- Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.
- 1.05 PERFORMANCE REQUIREMENTS
- Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category D, E, or F and complying with the following:
    - Local authorities having jurisdiction.
  - Acoustical Units - General: ASTM E 1264, Class A. Refer to drawings for products.
- 2.03 SUSPENSION SYSTEM(S)
- Supersession Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required. Refer to drawings for products.
- 2.04 ACCESSORIES
- Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system fastness requirement specified.
  - Hanger Wire: 12-gauge 0.08 inch galvanized steel wire.
  - Hold-Down Clips: Manufacturer's standard clips to suit application.
  - Seismic Clips: Manufacturer's standard clips for seismic conditions and to suit application.
  - Perimeter Moldings: Same metal and finish as grid.
  - Size: As required for installation conditions and specified Seismic Design Category.
  - Touch-up Paint: Type and color to match acoustical and grid units.

- 3.01 EXAMINATION
- Verify existing conditions before starting work.
  - Verify that layout of hangers will not interfere with other work.
- 3.02 PREPARATION
- Install after major above-ceiling work is complete.
  - Coordinate the location of hangers with other work.
- 3.03 INSTALLATION - SUSPENSION SYSTEM
- Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.
  - Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1/320.
  - Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size, unless otherwise indicated on drawings.
  - Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
    - Use longest practical lengths.
    - Overlap and rivet corners.
  - Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
  - Seismic Suspension System, Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch clearance between grids and walls.
  - Seismic Suspension System, Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls, maintain a 3/4 inch clearance between grid ends and wall.
  - Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
  - Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
  - Support future loads using supplementary hangers located within 6 inches of each corner, or support components independently.
  - Do not eccentrically load system or induce rotation of runners.
- 3.04 INSTALLATION - ACOUSTICAL UNITS
- Install acoustical units in accordance with manufacturer's instructions.
  - Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
  - Fit border trim neatly against abutting surfaces.
  - Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
  - Cutting Acoustical Units:
    - Make field cut edges of same profile as factory edges.
    - Double cut and field panel exposed reveal edges.
  - Where round obstructions occur, provide preformed closures to match perimeter molding.
  - Install hold-down clips on panels in entrance vestibules, within 20 ft of an exterior door, and where indicated.
- 3.05 TOLERANCES
- Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.

## SECTION 09 9113 - EXTERIOR PAINTING

- 1.01 SECTION INCLUDES
- Surface preparation.
  - Field application of paints.
  - Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
    - Exposed surfaces of steel lintels and ledge angles.
  - Do Not Paint or Finish the Following Items:
    - Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
    - Items indicated to receive other finishes.
    - Items indicated to remain unfinished.
    - Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
    - Non-metallic roofing and flashing.
    - Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and lead.
    - Marble, granite, slate, and other natural stones.
    - Floors, unless specifically indicated.
    - Ceramic and other types of tiles.
    - Glass.
    - Concealed pipes, ducts, and conduits.
- 1.02 SUBMITTALS
- Product Data: Provide complete list of products to be used, with the following information for each:
    - Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
    - MPI product number (e.g. MPI #47).
    - Cross-reference to specified paint system(s) product is to be used in; include description of each system.
  - Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
    - Where sheen is specified, submit samples in only that sheen.
    - Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens definitely not required.
  - Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
    - See Section 01 6000 - Product Requirements, for additional provisions.
    - Extra Paint and Finish Materials: 1 gallon of each color, from the same product run, store where directed.
    - Label each container with color in addition to the manufacturer's label.
- 1.03 QUALITY ASSURANCE
- Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years experience.
  - Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience.
- 1.04 DELIVERY, STORAGE, AND HANDLING
- Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
  - 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.
  - Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.
- 1.05 FIELD CONDITIONS
- Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
  - Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
  - 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.
  - Provide lighting level of 80 ft candles measured mid-height at substrate surface.

- 2.01 MANUFACTURERS
- Provide paints and finishes from the same manufacturer to the greatest extent possible.
    - Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.
    - Substitution of a different paint system using MPI-approved products by the same manufacturer will be considered.
- 2.02 PAINTS AND FINISHES - GENERAL
- Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint.
    - Where MPI paint numbers are specified, provide products listed in Master Painters Institute Approved Product List, current edition available at [www.paintinfo.com](http://www.paintinfo.com), for specified MPI categories, except as otherwise indicated.
    - 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.
    - 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.
    - Supply each paint material in quantity required to complete entire project's work from a single production run.
    - Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
  - Volatiles Organic Compound (VOC) Content:
    - Provide paints and finishes that comply with the most stringent requirements specified in the following:
      - 40 CFR 59, Subpart D-National Volatile Organic Compound Emission Standards for Architectural Coatings.
    - 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.
  - Flammability: Comply with applicable code for surface burning characteristics.
  - Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.
  - Colors: As indicated on drawings.
- 2.03 PAINT SYSTEMS - EXTERIOR
- Exterior Surfaces to be Painted: Unless Otherwise Indicated: Including concrete, concrete masonry units, brick, fiber cement siding, primed wood, and primed metal.
    - Two top coats and one coat primer.
    - Top Coat(s): Exterior Latex; MPI #10, 11, 15, 119, or 214.
  - Primer: As recommended by top coat manufacturer for specific substrate.
  - Wood, Opaque, Latex, 3 Coat:
    - One coat of latex primer sealer.
    - Semi-gloss: Two coats of latex enamel; MPI #11.
  - Exterior Gypsum Board and Exterior Plaster, Opaque, Latex, 3 Coat:
    - One coat of latex primer sealer.
    - Flat: Two coats of latex; MPI #10.
  - Ferrous Metals, Unprimed, Latex, 3 Coat:
    - One coat of latex primer.
    - Semi-gloss: Two coats of latex enamel; MPI #163.
  - Ferrous Metals, Primed, Latex, 2 Coat:
    - Touch-up with rust-inhibitive primer recommended by top coat manufacturer.
    - Semi-gloss: Two coats of latex enamel; MPI #163.
  - Galvanized Metals, Latex, 3 Coat:
    - One coat galvanize primer.
    - Semi-gloss: Two coats of latex enamel; MPI #163.
- 2.04 PRIMERS
- Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
    - Interior/Exterior Latex Block Filler; MPI #4.
    - Water Based Primer for Galvanized Metal; MPI #134.
    - Rust-Inhibitive Water Based Primer; MPI #107.
    - Latex Primer for Exterior Wood; MPI #6.
- 2.05 ACCESSORY MATERIALS
- Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.
  - Patching Material: Latex filler.
  - Fastener Head Cover Material: Latex filler.

- 3.01 EXAMINATION
- Do not begin application of paints and finishes until substrates have been properly prepared.
  - Verify that surfaces are ready to receive work as instructed by the product manufacturer.
  - Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
  - 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:
    - Exterior Plaster and Stucco: 12 percent.
    - Fiber Cement Siding: 12 percent.
    - Masonry, Concrete, and Concrete Masonry Units: 12 percent.
    - Exterior Wood: 15 percent, measured in accordance with ASTM D4442.
    - Concrete Floors and Traffic Surfaces: 8 percent.
- 3.02 PREPARATION
- Clean surfaces thoroughly and correct defects prior to application.
  - Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
  - Remove or repair existing paints or finishes that exhibit surface defects.
  - Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings; prior to preparing surfaces for finishing.
  - Seal surfaces that might cause bleed through or staining of topcoat.
  - Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
  - Concrete:
    - Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
    - Clean concrete according to ASTM D4258. Allow to dry.
    - Prepare surface as recommended by top coat manufacturer and according to SSPC-SP 13.
  - Masonry:
    - Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
    - Prepare surface as recommended by top coat manufacturer.
  - Fiber Cement Siding: Remove dirt, dust and other foreign matter with a stiff fiber brush. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
  - Exterior Gypsum Board: Fill minor defects with exterior filler compound. Spot prime defects after repair.
  - Exterior Plaster: Fill hairline cracks, small holes, and imperfections with exterior patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
  - Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton.
  - Concrete Floors and Traffic Surfaces: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry.
  - Galvanized Surfaces:
    - Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
    - Prepare surface according to SSPC-SP 2.
  - Ferrous Metal:
    - Solvent clean according to SSPC-SP 1.
    - 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.
    - Flat: MPI gloss level 1; use this sheen unless noted otherwise.
  - Transparent Finish on Concrete Floors, unless noted otherwise.
    - 2 coats sealer.
  - Sealer: Water Based Sealer for Concrete Floors; MPI #99.
  - Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior caulking compound after prime coat has been applied. Back prime concealed surfaces before installation.
- 3.03 APPLICATION
- Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
  - Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.
  - Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
  - Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
  - Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- 3.04 CLEANING
- Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
- 3.05 PROTECTION
- Protect finishes until completion of project.
  - Touch-up damaged finishes after Substantial Completion.

## SECTION 09 9123 - INTERIOR PAINTING

- 1.01 SECTION INCLUDES
- Surface preparation.
  - Field application of paints.
  - Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
    - Prime surfaces to receive wall coverings.
    - Mechanical and Electrical:
      - 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.
      - In finished areas, paint shop-primed items.
  - Do Not Paint or Finish the Following Items:
    - Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
    - Items indicated to receive other finishes.
    - Items indicated to remain unfinished.
    - Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
    - Floors, unless specifically indicated.
    - Glass.
    - Conduits and pipes, ducts, and conduits.
- 1.02 SUBMITTALS
- Product Data: Provide complete list of products to be used, with the following information for each:
    - Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
    - MPI product number (e.g. MPI #47).
    - Cross-reference to specified paint system(s) product is to be used in; include description of each system.
  - Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
    - Where sheen is specified, submit samples in only that sheen.
    - Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens definitely not required.
  - Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
    - See Section 01 6000 - Product Requirements, for additional provisions.
    - Extra Paint and Finish Materials: 1 gallon of each color, type, and sheen; from the same product run, store where directed.
    - Label each container with color, type, texture, and room locations in addition to the manufacturer's label.
- 1.03 QUALITY ASSURANCE
- Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years experience.
  - Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience.
- 1.04 DELIVERY, STORAGE, AND HANDLING
- Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
  - 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.
  - Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.
- 1.05 FIELD CONDITIONS
- Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
  - Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
  - Provide lighting level of 80 ft candles measured mid-height at substrate surface.
- 2.01 MANUFACTURERS
- Provide paints and finishes from the same manufacturer to the greatest extent possible.
    - Substitution of other products by the same manufacturer is preferred over substitution of materials by a different manufacturer.
    - Substitution of a different paint system using MPI-approved products by the same manufacturer will be considered.
- 2.02 PAINTS AND FINISHES - GENERAL
- Paints and Finishes: Ready mixed, unless intended to be a field-catalyzed paint.
    - Where MPI paint numbers are specified, provide products listed in Master Painters Institute Approved Product List, current edition available at [www.paintinfo.com](http://www.paintinfo.com), for specified MPI categories, except as otherwise indicated.
    - 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.
    - 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.
    - Supply each paint material in quantity required to complete entire project's work from a single production run.
    - Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
  - Volatiles Organic Compound (VOC) Content:
    - Provide paints and finishes that comply with the most stringent requirements specified in the following:
      - 40 CFR 59, Subpart D-National Volatile Organic Compound Emission Standards for Architectural Coatings.
    - 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.
  - Flammability: Comply with applicable code for surface burning characteristics.
  - Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.
  - Colors: As indicated on drawings.
- 2.03 PAINT SYSTEMS - INTERIOR
- Interior Surfaces to be Painted: Unless Otherwise Indicated: Including gypsum board, concrete, concrete masonry units, brick, wood, plaster, uncoated steel, shop primed steel, galvanized steel, and aluminum.
    - Two top coats and one coat primer.
    - Top Coat(s): Interior Latex; MPI #43, 44, 52, 53, 54, or 114.
    - Top Coat Sheen, unless noted otherwise on drawings:
      - Flat: MPI gloss level 1; use this sheen for ceilings and other overhead surfaces.
      - Eggshell: MPI gloss level 3; use this sheen at all locations.
    - Primer: As recommended by top coat manufacturer for specific substrate.
  - Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metal and wood.
    - Medium duty applications include doors, door frames, railings, handrails, guardrails, and balustrades.
    - Two top coats and one coat primer.
    - Top Coat(s): High Performance Architectural Interior Latex; MPI #139, 140, or 141.
    - Top Coat Sheen:
      - Semi-Gloss: MPI gloss level 5; use this sheen unless noted otherwise.
      - Primer: As recommended by top coat manufacturer for specific substrate.
  - Dry Fall: Metals; exposed structure and overhead-mounted services or as indicated on drawings, including shop primed steel deck, structural steel, metal fabrications, galvanized ducts, galvanized conduit, and galvanized piping.
    - Shop primer by others.
    - One top coat.
    - Top Coat: Latex Dry Fall; MPI #118, 155, or 226.
    - Top Coat Sheen:
      - Flat: MPI gloss level 1; use this sheen unless noted otherwise.
  - Transparent Finish on Concrete Floors, unless noted otherwise.
    - 2 coats sealer.
  - Sealer: Water Based Sealer for Concrete Floors; MPI #99.
  - Eggshell: MPI gloss level 3; use this sheen unless noted otherwise.
  - Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior caulking compound after prime coat has been applied. Back prime concealed surfaces before installation.
- 3.03 APPLICATION
- Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
  - Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.
  - Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
  - Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
  - Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- 3.04 CLEANING
- Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
- 3.05 PROTECTION
- Protect finishes until completion of project.
  - Touch-up damaged finishes after Substantial Completion.

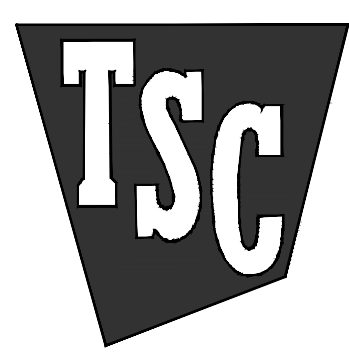
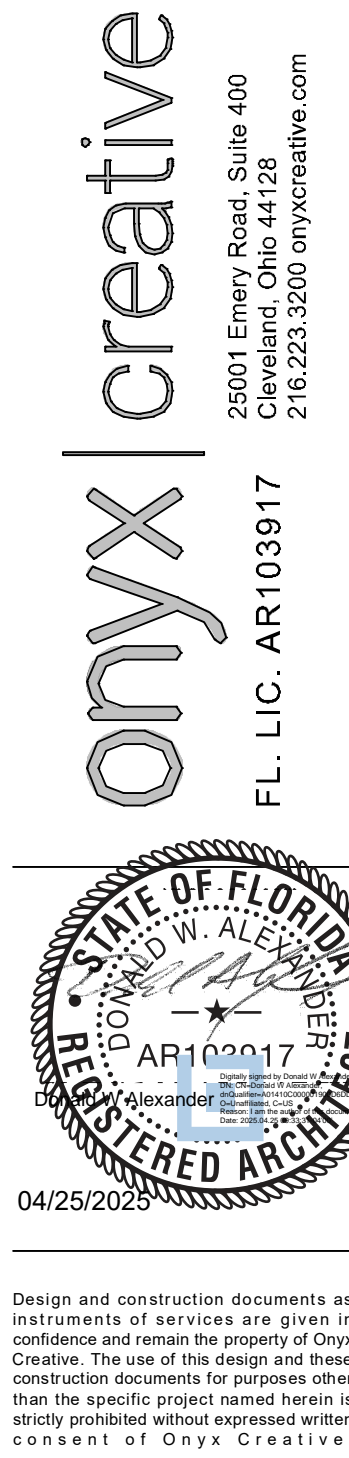
## SECTION 09 9123 - INTERIOR PAINTING

- 3.01 EXAMINATION
- Do not begin application of paints and finishes until substrates have been properly prepared.
  - Verify that surfaces are ready to receive work as instructed by the product manufacturer.
  - Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
  - 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:
    - Gypsum Wallboard: 12 percent.
    - Plaster and Stucco: 12 percent.
    - Masonry, Concrete, and Concrete Masonry Units: 12 percent.
    - Interior Wood: 15 percent, measured in accordance with ASTM D4442.
    - Concrete Floors and Traffic Surfaces: 8 percent.
- 3.02 PREPARATION
- Clean surfaces thoroughly and correct defects prior to application.
  - Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
  - Remove or repair existing paints or finishes that exhibit surface defects.
  - Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings; prior to preparing surfaces for finishing.
  - Seal surfaces that might cause bleed through or staining of topcoat.
  - Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
  - Concrete:
    - Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
    - Clean concrete according to ASTM D4258. Allow to dry.
    - Prepare surface as recommended by top coat manufacturer and according to SSPC-SP 13.
  - Masonry:
    - Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
    - Prepare surface as recommended by top coat manufacturer.
  - Fiber Cement Siding: Remove dirt, dust and other foreign matter with a stiff fiber brush. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
  - Exterior Gypsum Board: Fill minor defects with exterior filler compound. Spot prime defects after repair.
  - Exterior Plaster: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
  - Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton.
  - Concrete Floors and Traffic Surfaces: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry.
  - Galvanized Surfaces:
    - Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
    - Prepare surface according to SSPC-SP 2.
  - Ferrous Metal:
    - Solvent clean according to SSPC-SP 1.
    - 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.
    - Flat: MPI gloss level 1; use this sheen unless noted otherwise.
  - Transparent Finish on Concrete Floors, unless noted otherwise.
    - 2 coats sealer.
  - Sealer: Water Based Sealer for Concrete Floors; MPI #99.
  - Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior caulking compound after prime coat has been applied. Back prime concealed surfaces before installation.
- 3.03 APPLICATION
- Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
  - Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.
  - Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
  - Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
  - Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- 3.04 CLEANING
- Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
- 3.05 PROTECTION
- Protect finishes until completion of project.
  - Touch-up damaged finishes after Substantial Completion.

## SECTION 10 4400 - FIRE PROTECTION SPECIALTIES

- 1.01 SECTION INCLUDES
- Fire extinguishers.
  - Fire extinguisher cabinets.
  - Accessories.
- 1.02 SUBMITTALS
- Product Data: Provide extinguisher operational features and color and finish.
  - Shop Drawings: Indicate cabinet physical dimensions and accessories required for complete installation.
- 1.03 FIELD CONDITIONS
- Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.
- 2.01 FIRE EXTINGUISHERS
- Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
    - Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as indicated.
  - Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
    - Class: A-B-C type.
    - Size: 5 pound minimum.
    - Finish: Polished stainless steel.
    - Temperature range: Minus 40 degrees F to 120 degrees F.
  - Dry Chemical Type Fire Extinguishers: Stainless steel tank, with pressure gauge.
    - Class: K type.
    - Size: 1.6 gallons.
    - Finish: Baked polyester powder coat, red color.
    - Temperature range: Minus 40 degrees F to 120 degrees F.
- 2.02 FIRE EXTINGUISHER CABINETS
- Cabinet Construction: Non-fire rated.
    - Formed primed steel sheet, 0.036 inch thick base metal.
  - Cabinet Configuration: Semi-recessed type.
    - Size to accommodate accessories.
    - Trim: Returned to wall surface, with 2-1/2 inch projection, 1-3/4 inch wide face.
  - Door: 0.036 inch metal thickness, reinforced for flatness and rigidity with nylon catch. Hinge doors for 180 degree opening with two butt hinges.
  - Door Glazing: Acrylic plastic, clear, 1/8 inch thick, flat shape and set in resilient channel glazing gasket.
  - Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.
  - Finish of Cabinet Exterior Trim and Door: Baked enamel, color as selected.
  - Finish of Cabinet Interior: White colored enamel.
- 2.03 ACCESSORIES
- Extinguisher Brackets: Formed steel, chrome-plated.
  - Graphic Identification: Fire Extinguisher.
    - Cabinet Labeling: "FIRE EXTINGUISHER" decal, or vinyl self-adhering, prespaced black lettering in accordance with authorities having jurisdiction (AHJ).

- 3.01 EXAMINATION
- Verify existing conditions before starting work.
  - Verify rough openings for cabinet are correctly sized and located.
- 3.02 INSTALLATION
- Install in accordance with manufacturer's instructions.
  - Install one (1) extinguisher per 3,000 s.f. floor area and not more than 75' travel distance from any point to an extinguisher.
  - Install cabinets plumb and level in wall openings, 24 inches from finished floor to inside bottom of cabinet, unless noted otherwise.
  - Secure rigidly in place.
  - Place extinguishers and accessories in cabinets and on wall brackets, unless noted otherwise.
  - Install Dry Chemical, K type extinguishers in kitchens and in other areas involving cooking fluids, such as oils and fats and as directed by authority having jurisdiction.
  - Install Multipurpose Dry Chemical type extinguisher in other areas and as directed by authority having jurisdiction.
  - Final size, location and quantity shall be confirmed by the authority having jurisdiction.
- SECTION 31 3116 - TERMITE CONTROL
- 1.01 SECTION INCLUDES
- Chemical soil treatment.
- 1.02 SUBMITTALS
- Product Data: Indicate toxicants to be used, composition by percentage, dilution schedule, intended application rate.
  - Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements.
- 1.03 QUALITY ASSURANCE
- Installer Qualifications: Company specializing in performing this type of work.
    - Having minimum of three (3) years experience.
- 2.01 CHEMICAL SOIL TREATMENT
- Toxicant Chemical: Local authority approved; synthetically color dyed to permit visual identification of treated soil.
  - Diluent: Recommended by toxicant manufacturer.
  - Mixes: Mix toxicant to manufacturer's instructions.
- 3.01 EXAMINATION
- Verify that soil surfaces are unfrozen, sufficiently dry to absorb toxicant, and ready to receive treatment.
  - Verify final grading is complete.
- 3.02 APPLICATION - CHEMICAL TREATMENT
- Comply with requirements of U.S. EPA and applicable state and local codes.
  - Spray apply toxicant in accordance with manufacturer's instructions.
  - Apply toxicant at following locations:
    - Under Slabs-on-Grade.
    - Under slabs, apply toxicant immediately prior to installation of vapor barrier.
    - Apply extra treatment to structure penetration surfaces such as pipe or ducts, and soil penetrations such as grouting rods or posts.
    - Re-treat disturbed treated soil with same toxicant as original treatment.
    - If inspection or testing identifies the presence of termites, re-treat soil and re-treat.
- 3.03 PROTECTION
- Do not permit soil grading over treated work.



SCHEDULE I 4-24-2025  
SCHEDULE II -

PROPOSED NEW  
TRACTOR SUPPLY  
SW COUNTY ROAD 242A & SW CHAD PLACE  
LAKE CITY SOUTH, FL

Project No.: 24.0808  
Drawn By: XXX  
Date: 4-24-2025 Issue  
Bid & Permit