

5. Locks, Latches and Bolts:

- a. Bolt Locks: B Series
1) Single cylinder deadbolt with thumb turn, B460P, Schlage Lock Co.
b. Locksets:
1) Storeroom Lock: D80PG, Rhodes Design, Schlage Lock Co.
2) Entrance Lock: DP5-PD, Rhodes Design, Schlage Lock Co.
3) Storeroom Lockset: Storeroam Manufacturer's Standard two-point locking mechanism w/ Paddle type latch lock on interior.
i. Dead Bolt: 6 pin tumbler with cylinder guard, min. bolt projection of 1 1/2 inch.
ii. Threshold Bolt: Metal automatic release type with min. embedment of 5/8 inch into floor.
c. Cylinders: Minimum 6 pin tumbler cylinders.
1) Construct all parts of brass, bronze, stainless steel or nickel silver.
2) Flush Bolts: Lever extension Flush Bolts complying with ANSI A156.16, Grade 1.
1) Lower actuator centered 12 inches from door bottom, upper actuator centered 72 inches from door bottom.
e. Strikes: Provide strike for each latch bolt and lock bolt.
1) Finish matching other hardware on door.
2) Use wrought box strikes with curved lip unless otherwise indicated.

6. Closers:

- a. General:
1) Comply with Manufacturer's recommendation for size of closer based on size and weight of door, exposure to weather and anticipated frequency of use.
2) Size closer and adjust closing force to comply with applicable codes.
b. Surface Mounted Closers:
1) Comply with requirements of ANSI/BHMA A156.4, Grade 1.
2) Provide closers mounted on inside face of all doors.
3) Finish: Paint finish, color similar to finish on each door.
c. Concealed Closer, Storefront:
1) Overhead type, Storefront Manufacturer's standard type to suit application, finish to match door.

7. Seals and Thresholds:

- a. Weatherstripping at Hollow Metal Frames:
1) At Jambas and Head: Pemko "SiliconeSeal" weatherstripping S88.
2) At Bottom: Doorseal, Pemko 216AV.
b. Weatherstripping at Aluminum Storefront Entrances:
1) At Jambas and Head: Storefront Storefront Manufacturer's standard type to suit application.
2) At Bottom: Storefront Manufacturer's standard type to suit application.
c. Thresholds:
1) Formed to accommodate changes in elevation and to fit door hardware and frames. Width as required to match opening.
2) Threshold Types:
i. Threshold A: Pemko 255A
ii. Threshold A: Pemko 179AV
3) Sealant for setting thresholds: Butyl-Polyisobutylene sealant.

8. Door Stops, Kickplates, Holders, Bumpers and Viewers

- a. Door Stops:
1) Wall Stop: Hager 255W
2) Floor Stop: Hager 261F
b. Kickplates: Ives B400 Series, 10 inch and 24 inch height x Width of door minus 2 inches, Stainless Steel.
c. Floor Stop/Holders: Triangle Brass #1224
d. Viewer: Ives 69826D Fish Eye
e. Wall Bumper: Triangle Brass # 1270CXCP

9. Panic Hardware:

- a. Alarm Exit Device type: Detex V40XEB, US32D Finish (Requires morrise cylinder and standard cam).

10. Push and Pulls:

- a. Aluminum Storefront Doors
1) Pull: Hiawatha, HG122, US32D Finish.
b. Restrooms:
1) Push Plate: Hager 4 inch or 4 inch x 16 inch.
2) Door Pull: Hager 9L.

11. Lock Cylinders and Keying:

- a. Keying: Obtain Owner's instructions for keying.
1) Key each lock differently.
2) Provide a new Master Key system.
3) Provide standard cylinders for locks on all doors, unless otherwise indicated.
b. Keys: Nickel Silver
1) Permanently inscribe each key with manufacturer's change symbol.
2) Provide individual change key for each lock which is not designated to be keyed alike with a group of related locks.
3) Provide 3 of each change key.
4) Each Master Key system: 5 Master Keys

12. Fasteners:

- a. Fasteners: Provide all fasteners required for secure installation.
b. Select fasteners appropriate to substrate and material being fastened.
c. Use Phillips flathead screws unless otherwise indicated.
d. Use fasteners impervious to corrosion outdoors and on exterior doors.
e. Exposed screws: Match hardware finish.
f. Do not use through-bolts where bolt head or nut on opposite face would be exposed in finish work.
1) Where bolt head or nut is exposed in finishing work, provide the same finish as hardware on that side of door.

13. Finishes: All hardware to have 626, Satin Chromium Plated Finish, unless indicated otherwise.

- 14. Package each set separately, complete with trim, screws, bolts, nuts, washers, etc.; each package numbered with project name, number and corresponding hardware set number to correspond to door for which intended as listed on door schedule on drawings.

- 15. Install hardware in accord with manufacturer's instructions and requirements of ANSI/NFPA 80 and DMH. Use templates provided by hardware item manufacturer. Conform to ANSI A119.1 and ADA for positioning requirements for the handicapped.

16. Unless required otherwise by applicable codes or shown otherwise on the drawings:

- a. Top butts: 5 inches; top of butt from head of frame.
b. Bottom butts: 1 inch; finish floor to bottom of butt.
c. Middle butts: 3"-2"; centerline from finish floor.
d. Knobs: 3"-2"; centerline from finish floor.
e. Pulls: 3"-6"; centerline from finish floor.
f. Pushes: 4"-2"; centerline from finish floor.
g. Locks: 3"-2"; centerline from finish floor.

SECTION 08800 - GLAZING

- 1. Standards: Contractor determine and be responsible for actual systems(s) and materials to be used. FGIA "Glazing Manual" governs.

- 2. Manufacturer: Pecora Corporation, Harveysville, PA.

- 3. The following materials establish minimum quality standards. It is not intended to dictate or define systems to be used.

- a. Glazing Compounds: "B62-TBC" one part architectural silicone sealant.
b. Glazing Tapes: "Extra\_Seal" tapes, pre-shimmed, tapered, string, etc.
c. Primer: As recommended by compound and/or tape manufacturer for use intended.
d. Elastomeric Glazing Beads, Seals, Wedges, Gaskets, Etc.: Framing system manufacturer's standard vinyl or neoprene
e. Setting Blocks and Spacer Shims: Type and size recommended by FGIA for use intended.

4. Installation (Glazing)

- a. Install units in accord with approved data and FGIA "Glazing Manual" recommendations, including but not limited to:
1. Handling of glass.
2. Application of compounds, tapes, etc.
3. Installation of setting blocks and spacer shims.
4. Final sealing.

SECTION 08810 - GLASS

- 1. Intent (Safety of Persons): Glazing subcontractor is responsible to comply with safety laws, ordinances and regulations, which control type of glass related to safety of persons. The drawings and specifications attempt to comply with such laws, etc., but in case of failure to comply, most restrictive requirement shall govern work of this section.

- 2. Glass sizes shown are approximate. Determine sizes and proper edge clearances by measuring actual opening to receive glass. Labels shall not be removed until final acceptance.

3. Glass:

- a. Float (FG): 1/4 inch clear
b. Tempered (TG): 1/4 and 1/2 inch clear, tempered safety glass without visible clamp marks or "dimples".
c. Insulating (IGL): 1 inch, Solar Control Low-E, tinted insulating glass units by PPG Industries, Inc. composed of:
1) Outside Glazing: 1/4 inch PPG Optigray
2) Airspace: 1/2 inch thick
3) Inside Glazing: 1/4 inch PPG Solarban 60 (Low E)
d. Mirror Glass: 1/4 inch quality polished plate glass, silver coated, and hermetically sealed with uniform coating of electrolytic copper plating.
e. Art Glass: Wizard Art Glass; Contact John Taylor (800) 438-9565. Color and Finish as noted on drawings.
f. Adhesive: Pecora 7HR4, Mirror Tac, one part adhesive specifically recommended by adhesive manufacturer for use intended.

DIVISION 9 - FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1. Gypsum Panels-- Types Required

- a. Regular Board: ASTM C 36, tapered edges, thickness 5/8".
b. Ceiling board: ASTM C36, tapered edges, thickness 5/8".
c. Fire rated board: ASTM C36, Type X, tapered edges, thickness 5/8".
d. Water resistant board: ASTM C630, tapered edges, thickness 5/8".
e. Tile Backer Board: "Dens-Shield Firestop", type "X", 5/8" thick, non-structural, fiberglass-faced, silicone treated gypsum core panel.

2. Studs, Trim and Accessories

- a. Metal Studs: Per ASTM C645, galvanized, size and gauges as noted on drawings. Track shall be one size heavier than studs.
b. Corner Beads, Control Joints, and Edge Trim: Per ASTM C1047, equal to USG #103 "Dur-A-Bead", #833 and #200-A respectively, galvanized, Unless otherwise detailed, exposed "J" trim is not acceptable.

- 3. Fasteners: Screws, per ASTM 1002; 1-1/4" Type "W" bugle head into wood framing, 1-1/8" Type "S" bugle head into steel framing, and 3/8" Type "S"-12" pan (or low profile) head for steel to steel framing connections.

4. Joint Treatment Materials

- a. Joint Tape: Paper-reinforcing tape, per ASTM C475.
b. Joint Compound: Provide chemical hardening type for bedding and filling, and ready-mixed vinyl type for topping, per ASTM C475.

- 5. Textured Finish: Equal to Gold Bond "Unical" one coat veneer plaster sand mix, troweled.

6. Metal Framing and General Gypsum Board Installation Requirements:

- a. Metal Framing, Board Application and Finish Standards: GA216 and ASTM C754 and C840. Studding shall be 16" o.c. unless otherwise noted. Provide horizontal bracing at 4'-0" o.c. measured vertically. Frame door openings to comply with GA219.
b. Install ceiling boards in the direction and manner which will minimize the number of end-butt joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at least 4'-0".
c. Install wall/partition boards vertically to avoid end-butt joints wherever possible.
d. Locate either edge or end joints over supports. Stagger joints over different studs on opposite sides of partitions.
e. Space fasteners in gypsum board in accordance with referenced standards and manufacturer's recommendations, except as otherwise indicated.
1. Parallel Application: 12" o.c. in field; 8" o.c. along edges.
2. Perpendicular Application: 12" o.c. in field; 12" o.c. along edges.

7. Installation of Drywall Trim Accessories

- a. Install metal corner beads at horizontal and vertical external corners of drywall work. Secure with screws; clinching is not acceptable.
b. Install metal control joint (beaded-type) where indicated at 30'-0" maximum centers in any wall or ceiling.

8. Finishing of Drywall:

- a. Apply treatment at gypsum board joints (both directions), flanges of trim accessories, penetrations, fastener heads, surface defects and elsewhere as required for preparatory work for decoration. Apply joint compound in 3 coats. Sand between coats after last coat.
b. Water-resistant Gypsum Board Base: FRP or Ceramic tile. Comply with recommendations of gypsum board manufacturer for treatment of joints.

9. Application of Texture Finishes:

- a. Prepare and prime drywall and other surfaces in strict accordance with texture finish manufacturer's instructions.
b. Mix and apply finish to drywall and other surfaces indicated to receive finish in strict accordance with manufacturer's instructions to produce a uniform texture without streak spots or other evidence of the application and free of application patterns.
c. Remove texture droppings from door frames, windows, and adjoining work.

SECTION 09230 - CERAMIC TILE

- 1. Quantity Assurance: Perform tile work in accordance with the requirements of ANSI-CTI 137.1, Recommended Standard Specification for Ceramic Tile".

2. Materials:

- a. Ceramic Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shopes as required for a complete installation.
3. Comply with applicable TCA installation methods for substrates indicated. Provide tile expansion joints at all construction and/or joints in the slab.

- 4. Mix and proportion pre-mix setting bed and grout materials in accordance with manufacturer's instructions.

- 5. Lay tile in grid pattern, parallel to walls. Lay out tile work and center tile fields in both directions in each space at an each wall area so that no tiles less than 1/2 full tile will occur. Provide uniform joint widths.

- 6. All tile shall be brought to true and level planes with joints well filled and shall be secured firmly in place.

- 7. Cut and fit tile right to protrusions and/or perpendicular interruptions.

- 8. Sound tile after setting. Replace hollow sounding units.

- 9. Allow tile to set for a minimum of 48 hours prior to grouting.

- 10. Prohibit traffic from floor finish or activities near wall finish for 72 hours after installation. Protect the tile work from damage with Kraft paper or other heavy non-staining covering during the construction period.

- 11. Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter. Acid solutions may be used when permitted by tile and grout manufacturer's printed instructions.

SECTION 09510 - ACOUSTICAL CEILING

1. Acoustical Panels:

a. Type 1 -- Dining Rooms and Waiting Areas

- 1. Manufacturer: USG Interiors
2. Panels: "Eclipse Clima-Plus" Panel #76775
3. Size: 24" x 24" x 3/4"
4. Edges: Sloped Tegular edge
5. Suspension System: Donn DX
a. Exposed, direct hung, per ASTM C635.
b. Concealed grid member shall be electro-galvanized.
6. Finish: Ceiling tile and Suspension Grid; White.

b. Type 2-- Kitchen Areas

- 1. Manufacturer: USG Interiors
2. Panels: #3270 Vinyl Faced Gypsum Panels, Class A fire rated
3. Size: 24" x 48" x 1/2"
4. Edges: Square cut
5. Suspension System: USG's "Donn AX" aluminum grid (white) with stainless steel locking tee ends.
a. Exposed, direct hung, per ASTM C635.
b. Concealed grid member shall be electro-galvanized.
6. Finish: Ceiling tile and Suspension Grid manufacturers standard white.

- c. Structural Classification: Intermediate duty.
d. Provide fire rated grid where indicated or scheduled, or required by local codes.

2. Miscellaneous Materials:

- a. Hanger Wire: Galvanized carbon steel wire, ASTM A641, soft temp, prestretched Class 1 coating, sized so that stress at 3-times hanger design load (ASTM C635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gauge.

- b. Edge Mouldings and Trim: Metal of types and profile indicated or, if not indicated, provide manufacturer's standard molding for edges and penetrations or ceiling which fits with type of edge detail and suspension system specified.

3. Installation:

- a. Install suspension systems to comply with ASTM C635. Locate hangers not less than 6" from each end and spaced 4'-0" along each carrying channel or direct--hung runner, unless otherwise indicated, leaving to tolerance of 1/8" in 12'-0". In kitchen areas, hangers shall be spaced 3'-0" along each carrying channel or direct--hung runner to obtain load capacity of 16 lbs./LF. Provide hanger wire at each corner of each recessed fluorescent fixture.

- b. Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.

- c. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum, which are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset recurling horizontal force by bracing, counter-splying or other equally effective means.

- d. Install edge moldings of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.

- e. Clean exposed surface of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired, and permanently eliminate evidence of damage.

SECTION 09666 - RESILIENT SAFETY FLOORING

1. Section Includes:

- a. Resilient safety floor covering
b. Adhesives, seam sealers, and coating/finish

2. Submittals:

- a. Product data: Certification by floor covering manufacturer that product supplied for installation comply with all regulations.
b. Shop drawings showing location of seams and edge strips. Indicate location of columns, doorways, enclosing partitions, cabinetry, and locations where cutouts are required in flooring.
c. Maintenance data for floor covering, as noted in the Operating and Maintenance Manual.

3. Quality Assurance:

- a. Fire performance characteristics: Provide floor coverings with the following fire performance characteristics as determined by testing products per ASTM test method indicated below by Underwriters Laboratories, Inc. (UL) or another testing and inspecting agency acceptable to authorities having jurisdiction.
i. Class rating: Flux: 0.89 watts per sq. cm. Per ASTM E 648.
ii. Burned distance: 120 cm per ASTM E648.

4. Project Conditions:

- a. Maintain a minimum temperature of 70 F (21 C) in spaces to receive floor coverings for at least 24 hours prior to installation, during installation, and for not less than 24 hours after installation.
b. Do not install floor coverings until they are at the same temperature as the space where they are to be installed.
c. Close spaces to traffic while installing floor covering.

- 5. Warranty: Manufacturer shall provide a limited 12 year warranty for work under this section.

- 6. Manufacturer: Subject to compliance with requirements, floor coverings that may be incorporated in the work include ECO-GRIP slip resistant safety flooring as manufactured by Allied Industries, 1088 Gaffney Hwy, Jonesville, SC, 864-674-0020.

- 7. Resilient Floor Covering: Provide Allied's ECO-GRIP safety flooring, 1/4 inch thick, flexible slip, resistant product with textured wear surface. ECO-GRIP product shall meet or exceeds both ADA and OSHA requirements for safety floors and ramps.

8. Installation Accessories:

- a. Concrete slab primer: Non-staining type as recommended by flooring manufacturer.
b. Trowelable underlayment and patching compounds: Latex-modified, portland-cement-based formulation provided or approved by floor covering manufacturer for applications indicated.
c. Adhesives (cements): Water-resistant, stabilized type as recommended by manufacturer to suit floor covering products and substrate conditions indicated.
d. Seam sealer: Formulation provided or approved by floor covering manufacturer for products indicated.
e. Rod for heat-welding seams: Product of floor covering manufacturer in color complying with the following requirement: Match field color of sheet floor covering.
f. Metal edge strips: Extruded aluminum with mill finish of width shown, of height required to protect exposed edge of floor coverings and in maximum available lengths to minimize running joints.

9. Examination:

- a. Verify that substrates and conditions are satisfactory for installation and comply with floor covering manufacturer's requirements. Beginning of installation means acceptance of substrate.
b. Concrete subfloors: Verify that concrete slabs comply with the following:
i. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials whose presence would interfere with bonding of adhesive. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by floor covering manufacturer.
ii. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits of any kind.

10. Preparation:

- a. Comply with manufacturer's installation specifications to prepare substrates indicated to receive floor coverings.
b. Use trowelable leveling and patching compounds to fill cracks, holes, and depressions in substrates.
c. Remove coatings, including curing compounds, and other substances that are incompatible with flooring adhesives and that contain soap, wax, oil, or silicone, by using a terrazzo or concrete grinder, a drum sander, or a polishing machine equipped with a heavy-duty wire brush.

- d. Broom or vacuum clean substrates to be covered by floor coverings immediately before installation. Following cleaning, examine substrates to determine if there is visually any evidence of moisture, alkaline salts, carbonation, or dust.

11. Installation:

- a. Comply with vinyl floor covering manufacturer's installation instructions and other requirements indicated that are applicable to each type of floor covering installation included in project.
b. Lay out floor coverings to comply with the following requirements:
i. Arrange uniformly of floor covering direction.
ii. Mantain for a minimum number of seams and place them in inconspicuous and low traffic areas, but in no case less than 6 inches (150 mm) away from parallel joints in flooring substrates.
iii. Match edges of floor coverings for color shading and pattern at seams.
iv. Avoid cross seams.
c. Scribe, cut, and fit floor coverings to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture, including cabinets, pipes, outlets, edgings, thresholds, and nosings.
d. Extend floor coverings into toe spaces, door reveals, closets, and similar openings.
e. Install floor coverings on covers for telephone and electrical ducts, and similar items occurring within finished floor areas. Maintain overall continuity of color and pattern with pieces of flooring installed on these covers. Tightly adhere edges to perimeter of floor around covers and to covers.
f. Adhere sheet floor coverings to flooring substrates by method approved by floor covering manufacturer.
i. Produce complete installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections.
ii. Comply with floor covering manufacturer's directions including those for trowel notching, adhesive, mixing, and adhesive open and working times.
g. Chemically bond seams in sheet floor coverings. Prepare seams and apply seam sealers to produce lightly filled seams without gaps or overlaps.
h. Hand roll sheet floor coverings in both directions from center out to embed floor coverings in adhesive and eliminate trapped air. At walls, door casings, and other locations where access by roller is impractical, press floor coverings firmly in place with flat-bladed instrument or hand roller.

12. Cleaning and Protection:

- a. Perform the following operations immediately after installing floor coverings:
i. Remove visible adhesive and other surface blemishes using method recommended by floor covering manufacturers.
ii. Sweep or vacuum floor thoroughly.
iii. Clean floor to remove black marks and soil.
b. Protect flooring against mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods indicated or recommended by floor covering manufacturer.
i. Do not move heavy and sharp objects directly over floor coverings. Place wood panel hardware panels over floor coverings on order objects while they are being set.

SECTION 09680 - CARPET

1. Section Includes: Carpeting, Carpet Base, and Edge Trim

- 2. Submit a plan layout of areas to receive carpeting along the direction of the run, seam layout and other pertinent data regarding the carpet laying for approval by the Owner.

- 3. Coordination: The General Contractor shall be responsible for all job measurements carpet fit. Drawings shall be checked to determine whether or not carpet extends over cabinets, walls, etc.

- 4. Guarantee: Protective carpet materials shall be replaced by the manufacturer (both labor and materials) without charge to the Owner, for a period of one year from date of installation.

5. Materials:

- a. Carpet: Manufacturer, product, colors and pattern as noted on the finish schedule on the drawings.
b. Adhesive: As recommended by carpet manufacturer. Adhesive shall be of a type that will work with a "release agent" to facilitate replacement.
c. Edge Trim: Vinyl, as noted on drawings.

6. Scheduling and Conditions:

- a. After notification from the General Contractor to proceed with the carpet laying, carpet Subcontractor shall inspect sub\_floors and report any condition that would prevent him from making a satisfactory installation.

- 7. Preparation: Floors to which carpet is to be applied shall be thoroughly cleaned, smooth and true. Rough spots shall be smoothed prior to installation. Sweep floors clean of all dust, etc.

8. Installation:

- a. Carpeting: Cement carpet to concrete floors with adhesive. Recommended procedures for installation, furnished by the manufacturer shall be closely followed. Pay particular attention to recommendations for application of floor cement adhesives, seam cement and cross joining. Joints shall be butt-type using factory cut selvage edges. There shall be a minimum of seams in accord with the approved layout plan.
b. Edge Trim: Install edge trim at the edge of all carpeting not against a wall, cabinet or other vertical surface.
c. Carpet Base: Six (6) inches high, same material, colour, pattern and texture as adjoining carpet and carpet base cap strip to accommodate base carpet thickness.

9. Cleaning and Protection:

- a. Any carpet soiled during or after installation shall be cleaned in accord with the recommendations of carpet manufacturer. Protect carpet in place with a layer of heavy approved building paper taped at the seams. Damaged carpeting that cannot be repaired shall be replaced before the project will be accepted.

SECTION 09770 - Prefinished Wall panels

- 1. Manufacturer: Marlite, 202 Harger Street, Dover, Ohio 44622.

2. Panels:

- a. Wall Panels: Product, Color and Patterns as noted on Drawings.

3. Accessories:

- a. All molding and trim shall be pre-finished at the factory to meet site conditions per manufacturer's standard detailing.
b. Adhesive to be C-375 Marlite Construction Adhesive as required, to meet ASTM C557.
c. Sealant to be MS251 Marlite Silicon Sealant as required.

4. Preparation:

- a. Pre-finished panels must be installed over a smooth, solid, flat sub wall assembly.
b. Do not begin installation until building is completely enclosed and interior conditions are being maintained as intended during occupancy, approximately 70 degrees F.
c. Cartons should be opened and allowed to acclimate to room conditions for at least 48 hours prior to installation.

5. Installation:

- a. Install in strict accordance with manufacturer's written instruction, especially in regard to fastening system and bracket spacing necessary to achieve optimum capacity.
b. Avoid contamination of panel faces with adhesives, solvents or cleaners; clean as necessary and replace if not possible to repair to original condition.
c. Protect installed products until completion of project.

SECTION 09900 - PAINTING

- 1. Provide labor, materials, equipment and related items required to complete the exterior and interior items and surfaces throughout the project including filling, sealing, priming, and finishing.

- 2. Approval of colors must be obtained from the Owner before proceeding with work of this section. Unless otherwise specified, all undercoats shall be tinted slightly to approximate the finished colors and each subsequent undercoat shall be a different tone or value than the previous undercoat.

- 3. Mechanical and Electrical work to be painted includes the following (but not limited to):

- a. Exposed piping and/or pipe insulation, inside and outside building.
b. Mechanical equipment and supports, including exposed ductwork, registers and grills.
c. Exposed conduit, boxes, and panel fronts.
d. Gas meter
e. Inside surfaces of all ducts, dampers and louvers as far back as visible from the room in which they open. Finish with two coats of Flat Black Paint.

- 4. Ensure surface temperatures and the surrounding air temperature are above 50 degrees F. before applying paint materials.

- 5. Provide adequate continuous ventilation and sufficient heating facilities to maintain temperature above 45 degrees F. for 24 hours before, during and 48 hours after application of paint and materials.

- 6. Provide minimum 25-foot candles of lighting on surfaces to be painted.

7. Acceptable Manufacturers

- a. Sherwin Williams
b. ICI Dulux

- 8. Perform preparation, filling, sealing, sanding, and cleaning of surfaces scheduled to be painted in accordance with paint manufacturer's instructions.

- 9. Remove hardware and accessories, fittings, and fasteners, electrical plates, lighting fixture and similar items. Reinstall removed items after completion of painting.

- 10. Do not paint over dirt, dust, stains, rust, scale, oil, grease, moisture, scuffed surfaces, or other contamination or conditions detrimental to formation of a durable paint film.

11. Backprime woodwork as follows:

- a. Exterior painted wood: "Latex Exterior Primer".

- 12. Apply paint in accordance with paint manufacturer's instructions and as herein specified.

- 13. Apply each coat of paint at no less than the specified rate indicated in manufacturer's instructions.

- 14. Sand lightly between enamel.

- 15. Completely cover items/surfaces scheduled to be painted, to provide a smooth surface of uniform finish, color appearance and light neutral coverage free from cloudiness, spotting, holidays, laps, brush marks, streaks, sags, ropiness and other surface imperfections.

- 16. Tentative Paint List: Where any particular application is not mentioned in this list, Contractor shall figure out application of manufacturer's specification for application which is consistent with quality and quantity shown herein. Colors are indicated on drawings.

17. Exterior Surfaces

- a. Wood Trim (Paint)
1st coat: Sherwin Williams -- A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
2nd coat: Sherwin Williams -- A100 Exterior Latex Satin,