

- 2.05 Accessories.
- A. Toilet Tissue Dispensers. Single-Roll Dispenser: Size to accommodate core tissue to 5" diameter, with metal paper roller equipped with heavy-duty internal spring and finished to match base unit.
  - B. Grab Bars. Stainless Steel Type: Provide grab bars with wall thickness not less than 18 gage and as follows:
    - 1. Mounting: Concealed.
    - 2. Gripping Surfaces: Manufacturer's standard non-slip texture.
    - 3. Size: Outside diameter 1-1/4".
  - C. Mirrors. Provide one 18" x 36" for each lav., bathroom, and exam room. One piece roll formed frame, stainless steel angle with satin finish.
  - D. Paper Towel Holder / Dispenser.
    - 1. Surfaced-Mounted Towel Dispensers: Fabricate of stainless steel with hinged front equipped with tumbler lockset and spring latch bolt. Provide pierced slots at sides as refill indicator.
    - 2. Capacity: Not less than either 300 C-fold or 400 multifold paper towels.
  - E. Soap dispensers. Liquid Soap Dispenser, Horizontal Tank Type: Fabricate for surface mounting, sized for 40 fl. oz. minimum capacity. Provide stainless steel piston, springs, and internal parts designed to dispense soap in measured quantity by pump action. Provide cover in stainless steel, with unbreakable window-type refill indicated. Equip units with push type valve for dispensing soap in liquid form.

**Part 3 EXECUTION**

- 3.01 General: Install toilet accessory units in accordance with manufacturer's instructions, using fasteners appropriate to substrate and recommended by manufacturer of unit. Install units plumb and level, firmly anchored in locations indicated.
- 3.02 Adjust toilet accessories for proper operation and verify that mechanisms function smoothly.
- 3.03 Clean and polish all exposed surfaces after removing protective coatings.

END OF SECTION 10800

**Part 3 EXECUTION**

- 3.01 Install units plumb and level in locations and with mountings shown, securely attached to supporting structure with concealed fasteners, in accordance with manufacturer's installation instructions.

END OF SECTION 10410





- 2.03 Vinyl-Over-Vinyl Adhesive: Provide the manufacturer's recommended adhesive produced for use with vinyl wallcovering installation over existing vinyl wallcovering. Provide materials which are mildew-resistant and non-staining to wallcoverings.
- 2.04 Release Coat: Provide sealer or undercoat for new gypsum wallboard substrates as recommended by manufacturer. Provide undercoat for previously painted gypsum wallboard and other substrates as recommended by manufacturer.
- 2.05 Clear Acrylic Molding.
- A. Molding manufactured for use with wallcoverings; provide one-piece cap strip type to protect outside corners of wallpapered spaces.
  - B. Adhesive: Contact adhesive recommended by manufacturer.
- 2.06 Lining Paper: Provide paper lining designed for underlayment of wallcovering and recommended for application indicated.

**Part 3 EXECUTION**

- 3.01 Examine substrates for compliance with requirements. Make certain surfaces are free from defects and imperfections that could show through the finished surface.
- A. Do not install over oil-based wood stains or felt-tip pen markings.
  - B. Check painted surfaces for possibility of pigment bleed-through.
  - C. *Do not* proceed until unsatisfactory conditions have been corrected.
- 3.02 Acclimatize wallcovering materials by removing from packaging in the installation area not less than 24 hours before application.
- 3.03 Remove switch plates, wall plates, and surface-mounted fixtures where wallcovering is applied. On completion of installation, reinstall items using workmen skilled in trades involved.
- 3.04 Prime and seal substrates in accordance with the manufacturer's recommendations. Apply surface sealer to gypsum drywall to permit subsequent removal of wallcovering without damage to paper facing.
- 3.05 Verify that colors and patterns are those specified before beginning installation.
- 3.06 Vinyl Wallcovering: Place panels consecutively in order cut from rolls, including filling spaces above or below openings. Hang by reversing alternate strips, except on match patterns.
- A. Apply adhesive to back of wallcovering and place in accordance with the manufacturer's instructions. Install seams plumb, at least 6 inches away from corners. Horizontal seams will not be permitted. Overlap seams and double-cut to assure tight closure. Roll, brush or use a broad knife to remove bubbles, wrinkles, blisters, and other defects. Cut evenly to edges of wall penetrations. Trim salvages to assure color uniformity and pattern match.
  - B. Clear Acrylic Moldings: Furnish moldings for perimeter edging. Install 5'-0" lengths, by adhering to substrate in accordance with manufacturer's instructions.



- B. Stir material before application to produce a mixture of uniform density; stir as required during application. Do not stir surface film into material. Remove film and, if necessary, strain before using.
- C. Use only thinners approved by manufacturer, and only within recommended limits.

3.05 Application: Apply paint in accordance with manufacturer's 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 formation of a durable paint film.

- A. Paint colors, surface treatments, and finishes are indicated in "schedules."
- B. Provide finish coats that are compatible with primers used.
- C. The number of coats and film thickness required is the same regardless of application method. Do not apply succeeding coats until previous coat has cured. Sand between applications where required to produce a smooth, even surface.
- D. Apply additional coats when undercoats or other conditions show through final coat, until paint film is of uniform finish, color, and appearance.
- E. The term "exposed surfaces" includes areas visible when permanent or built-in items are in place. Extend coatings in these areas to maintain system integrity and provide desired protection.
- F. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
- G. Omit primer on metal surfaces that have been shop-primed.

3.06 Scheduling Painting: Apply first-coat to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practicable, and before subsequent surface deterioration. Allow sufficient time between successive coats to permit proper drying. Do not recoat until paint has dried.

3.07 Minimum Coating Thickness: Apply materials at the manufacturer's recommended spreading rate. Provide total dry film thickness of the system as recommended by the manufacturer.

3.08 Block Fillers: Apply block fillers at a rate to ensure complete coverage with pores filled.

3.09 Prime Coats.

- A. Before application of finish coats, apply a prime coat as recommended by the manufacturer to material required to be painted or finished, and has not been prime coated by others.
- B. Recoat primed and sealed substrates where there is evidence of suction spots or unsealed areas in the first coat to assure a finish coat with no burn-through or other defects due to insufficient sealing.

3.10 Brush Application.

- 1.09 Deliver materials to the job site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label with trade name and manufacturer's instructions.
- 1.10 Store materials not in use in tightly covered containers in a well ventilated area at a minimum ambient temperature of 45 deg F (7 deg C). Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily.
- 1.11 Project Conditions: Do not apply paint in snow, rain, fog or mist, when the relative humidity exceeds 85 percent, at temperatures less than 5 deg F (3 deg C) above the dew point, or to damp or wet surfaces.

**Part 2 PRODUCTS**

- 2.01 Acceptable manufacturers  
Benjamin Moore  
Sherwin-Williams  
Pittsburgh Paints  
Glidden  
Devoe  
Pratt & Lambert
- 2.02 Required materials.
- A. Walls to be painted
1. primer - equal to Benjamin Moore Moorcraft Super-Hide Latex Primer-Undercoater (284)
  2. 2 finish coats - equal to Benjamin Moore Moorcraft Super-Hide Latex Eggshell Enamel (286)
  3. color - to be specified by Architect
- B. Walls to be wallpapered
1. surface conditioner - equal to Benjamin Moore Wall-Grip Latex Sealer III (203 03)
- C. Metal door frames, interior window frames, elevator doors & frame, stair railings and stringers
1. primer - equal to Benjamin Moore Ironclad Retard-X Rust Inhibitive Latex Primer (162)
  2. 2 finish coats - equal to Benjamin Moore Satin Impervo (235) or Moorcraft Super-Hide Latex Semi-Gloss Enamel (286)
  3. color - to be specified by Architect
- D. Architectural millwork
1. 1st Coat - equal to Benjamin Moore Benwood Interior Wood Finishes Wood Grain Filler (238) ;omit for close grained wood
  2. 2 finish coats - equal to Benjamin Moore Benwood Interior Wood Finishes Polyurethane
- E. Interior doors (if not factory finished)
1. 2 finish coats - equal to Benjamin Moore Benwood Interior Wood Finishes Polyurethane





- 3.01 Inspection. Inspect surfaces to receive carpeting and the conditions under which the work has to be performed. Report in writing to the General Contractor any conditions which might adversely affect the installation. Do not proceed with the installation until defects have been corrected and conditions are satisfactory.
- 3.02 Field Measurements. Dimensions supplied on the drawings and hereunder are approximate. Carefully check all dimensions and other conditions for proper installation of carpet in areas designated.
- 3.03 Installation.
- A. Ensure that floors are clean, and free of cracks and protrusions. Fill any gaps or cracks, more than  $\frac{1}{16}$ " wide, with a good grade of latex base flashing compound, such as Lev-L-astic or approved equal. Sand down any protrusions, sweep and vacuum the floor to remove all dust and grit.
  - B. Perform spot checking of all floors, for moisture content, prior to commencing installation. Ensure that floor temperature is a minimum of 65°F at least 24 hours prior to installation and will be maintained same for 48 hours after installation.
  - C. Install carpet wall to wall in rooms and areas indicated on the drawings by the direct glue-down method in accordance with the carpet manufacturer's printed instructions. Installed carpet and pad shall be smooth, uniform and secure with a minimum of seams. Install breaths parallel with carpet pile in the same direction. Accurately match patterned goods. Fit cutouts, such as door jambs, and columns neatly and securely. Locate carpet seams at doorways perpendicular to door or at pivot points. Follow the wall line parallel to the carpet direction for seams at corridor changes of direction. Where carpet meets other flooring material, special care shall be taken to achieve the smoothest transition possible. Raw edges shall be secured with specified moldings.
  - D. Make all seams by butting and cementing properly prepared and treated edges of carpet to each other and to the floor, except as otherwise recommended by the manufacturer. Remove all selvage before seaming. Cut raw edges on a slight angle with surface yarns extending outward over the backing material so that when two edges are joined for seaming a neat mingling of surface yarns of both breadths can be achieved to produce neat, professional seams. Seams shall have a minimum breaking strength of 100 pounds per inch and shall be capable of withstanding all carpet cleaning processes.
- 3.04 Repairing. Remove bubbles and ripples, repair seams, joints and edges, if required, once after the original installation is completed. The exact time for this work shall be left to the discretion of Architect or General Contractor but shall be within 12 months after final approval of finished installation. Fourteen-day notice for this restretch will be given by the Architect, so that necessary arrangements can be made for same.
- 3.05 Clean-up. Upon completion of the installation, remove all waste and excess materials, and all tools and equipment.
- 3.06 Excess Carpet Pieces. Leave all usable pieces of carpet, not necessary to complete the work, on the job site and place in an orderly manner in an area designated by Owner.
- 3.07 Cleaning and Protection. After installation, remove all debris, mouldings, scraps, and other foreign matter. Remove any soiled spots or adhesive from the face of the carpet with the appropriate spot remover. Clip any protruding face yarn with sharp scissors.

- 2.08 Vinyl Wall Base: Homogeneous vinyl, color to be chosen by Architect, four inches high, 1/8" wall thickness, lengths sufficient to allow most rooms to be trimmed without joints, coved when in conjunction with vinyl tile, furnished with matching end stop wherever ends of base are exposed to view. External and internal corners shall be job-formed as specified hereunder. Bases shall be as manufactured by Armstrong, John-Manville, Johnson Rubber, Messer or Kentile.
- 2.09 Transition Strips. Homogeneous vinyl, one by 3/32", tapering to feather edge, in colors as selected by the Architect.
- 2.10 Adhesives, Primers, and Leveling Materials: As recommended by the manufacturer.

**Part 3 EXECUTION**

3.01 Pre-installation Conditions:

- A. Inspect all surfaces and assure that they are in proper condition to receive work to be performed under this Section. New flooring is to be laid over existing VAT flooring. Patching and leveling will be required where existing partitions were removed.
- B. Perform all corrective and preparation work as required to bring existing surfaces into a proper condition to receive the work. Furnish and install leveling materials to insure proper adhesion and final tolerance level on finish flooring surface of not more than 1/16" from level for 10 feet in any direction.
- C. Fill all minor cracks in subfloors with mastic as recommended by the tile manufacturer.
- D. A temperature of not less than 70° shall be maintained for not less than 48 hours before commencing installation of resilient materials and continued for 48 hours after completion.
- E. No work shall start until samples have been submitted to and submitted by the Architect. All materials shall be labeled, stating colors, locations, type of adhesive and primer (if required), and the areas in which materials are to be used.

3.02 Installation:

- A. All products covered by this Section shall be installed by qualified personnel in strict accordance with the manufacturer's written specifications and the additional provisions herein specified.
- B. Resilient materials shall be laid so as to insure uniform contact with the backing surfaces, and with all finished surfaces smooth and in a plane, free from buckles, waves, or other imperfections, Resilient flooring shall be completely fitted and joints shall be as inconspicuous as possible.
- C. Resilient flooring shall extend up to cabinets and under equipment shown on the drawings and into the wall lines, unless otherwise noted on the drawings. Resilient flooring shall be carried to fit neatly into breaks and recesses, against non-resilient bases, around pipes and under saddles. Flooring shall be cut to and around excessively weighty fixed objects. Lay tile with pattern running in one direction throughout.

- 3.02 White gloves furnished by the manufacturer shall be worn by installers when handling the *Transparencies* luminous ceiling system panels.
- 3.03 Refer to Reflected Ceiling Plan and Room Finish Schedule for locations and layouts of Acoustical Ceilings. Balance ceiling borders on opposite sides, using more-than-half-width acoustical units.
- Pattern Direction: One-way, align joints.
- 3.04 Install suspension and grid systems in strict accordance with the recommendations of the systems manufacturer, with hangers spaced not more than **48** inches on centers in any direction, and as otherwise required to ensure deflection not exceeding  $1/360$  of the span of the members. Install edge moldings at all walls and other vertical penetrations of the ceiling. Ceiling plane shall be absolutely level.
- 3.05 Field Quality Control: Deflection on installed system: Maximum deflection shall not exceed  $1/360$  of the span.
- 3.06 Any panel that is marked or defaced in any way shall be cleaned entirely to remove the defect, or if the defect cannot be removed by the cleaning, the unit shall be replaced with a new panel at no additional cost.
- 3.07 Upon completion of work, furnish to the Owner one carton or package of each size acoustical panel specified and from the original manufacturer's run used on the project.

END OF SECTION 09512



2. Where partitions and wall framing abuts overhead structure.
  3. Provide slip or cushioned type joints to attain lateral support and avoid axial loading.
  4. Do not bridge building expansion and control joints with steel framing **or** furring members; independently frame both sides of joints with framing or furring members.
- D. Install runners (tracks) at floors, ceilings and structural walls and columns where gypsum drywall stud system abuts other construction. Where studs are installed directly against exterior walls, install asphalt felt strips between studs and walls.
  - E. Installation tolerances. Install each steel framing and furring member so that fastening surface do not vary more than 1/8 inch from plane of faces of adjacent framing.
  - F. Extend fire rated partitions and sound partitions to underside of roof. All others to bottom of structural supports, except at closets, where partitions may terminate at suspended ceilings. Continue framing over frames for doors and openings and frame around ducts penetrating partitions above ceiling to provide support for gypsum board.
  - G. Install steel studs and furring in sizes and at 16 inches on center for single and double layer construction, but not less than that required by referenced steel framing installation standard.
  - H. Install steel studs so that flanges point in the same direction and gypsum boards can be installed in the direction opposite to that of the flange.
  - I. Frame door openings to comply with details indicated, with GA-219 and with applicable published recommendations of gypsum board manufacturer. Attach vertical studs at jambs with screws either directly to frames or to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs. Extend vertical jamb studs through suspended ceilings and attach to underside of floor or roof structure above.
  - J. Frame openings other than door openings in same manner **as** required for door openings; and install framing below sills of openings to match framing required above door heads.

- 3.03** Repair any tears or punctures in vapor retarder on interior of framing members of exterior insulated walls if exposed during demolition.
- 3.04** During work progress the drywall contractor is to remove all excess materials and trash resulting from operations, which may disrupt the work of the other trades, and after completion leave the premise broom clean. The drywall contractor shall inspect all areas affected by his work to ascertain that all work is complete and has been accepted. Defective installations shall be corrected before finish surfaces are painted or sprayed.
- 3.05** Cutting and Patching. When directed by the Architect and prior to any finishing or painting of gypsum board surfaces, check all drywall throughout, and perform all cutting, patching and joint treatment required, in a manner satisfactory to the Architect.

- 2.06 Trim Accessories.
- A. Comerbead and Edge Trim for Interior Installation. Provide comer beads, edge trim and control joints which comply with ASTM C1047.
    - 1. Material. Sheet steel zinc-coated by hot-dip process.
    - 2. "LC" bead standard unless otherwise indicated.
    - 3. "L" bead where indicated
    - 4. "U" bead where indicated
- 2.07 Gypsum Board Joint Treatment Materials.
- A. General. Provide materials complying with ASTM C475, ASTM C840, and recommendations of manufacturer of both gypsum board and joint treatment materials for the application indicated.
  - B. Joint Tape. Paper reinforcing tape, unless otherwise indicated.
  - C. Setting-Type Joint Compounds. Factory-prepackaged, job-mixed, chemical-hardening powder products formulated for uses indicated.
    - 1. Where setting-type joint compounds are indicated for use as taping and topping compounds, use formulation for each which develops greatest bond strength and crack resistance and is compatible with other joint compounds applied over it.
    - 2. For profiling gypsum board joints, use formulation recommended by gypsum board manufacturer for this purpose.
    - 3. For filling joints and treating fasteners of water-resistant gypsum backing board behind base for ceramic tile, use formulation recommended by gypsum board manufacturer for this purpose.
- 2.08 Miscellaneous Materials.
- A. Laminating adhesive.
  - B. Spot Grout. ASTM C475 setting-type joint compound of type recommended for spot grouting hollow metal door frames.
  - C. Fastening adhesive for Wood.
  - D. Fastening adhesive for Metal.
  - E. Gypsum Board Screws.
  - F. Gypsum Board Nails.
  - G. Concealed Acoustical Sealant. Nondrying, non hardening, non skinning, non staining, non bleeding, gunnable sealant.
  - H. Thermal insulation.
  - I. Polyethylene Vapor Retarder. 6 mils.
  - J. Glass Mesh Mortar Unit Finishing Materials. Tape and joint compounds as recommended by manufacturer.

**Part 3 EXECUTION**

- 3.01 Installation Procedures. Erection procedures for the various gypsum drywall construction conditions, as set forth in the published Specifications of the National Gypsum Company, entitled Gypsum Wallboard Construction 1980, or the equivalent publications of the manufacturer of materials used shall govern the work of this Section, together with additional requirements specified hereunder and indicated on the Drawings.

of gypsum board maintain not less than 50 deg F for 48 hours prior to application and continuously thereafter until drying is complete.

- C. Ventilate building spaces to remove water not required for drying joint treatment materials. Avoid drafts during dry, hot weather to prevent materials from drying too rapidly.

## Part 2 PRODUCTS

2.01 Manufacturers. Subject to compliance with requirements, manufacturers offering products which may be incorporated in the Work include, but are not limited to, the following:

- A. Steel Framing and Furring.
  - 1. Bostwick Steel Framing Co.
  - 2. Dale Industries, Inc.
  - 3. Gold Bond Building Products Div., National Gypsum Co.
  - 4. Incor, Inc.
  - 5. Marino Industries Corp.
  - 6. United States Gypsum Co.
- B. Grid Suspension Systems.
  - 1. Chicago Metallic Corp.
  - 2. National Rolling Mills Co.
- C. Gypsum Boards and Related Products.
  - 1. Centex American Gypsum Co.
  - 2. Domtar Gypsum Co.
  - 3. Georgia-Pacific Corp.
  - 4. Gold Bond Building Products Div., National Gypsum Co.
  - 5. United States Gypsum Co.

2.02 Steel Framing Components for Suspended **and** Furred Ceilings.

- A. Channels. Cold-rolled steel, 0.0598 inch minimum thickness of base (uncoated) metal and 7/16 inch wide flanges, protected with rust-inhibitive paint, and as follows:
  - 1. Carrying channels. 2 inches deep, 590 lbs per 1000ft.
  - 2. Carrying channels. 1-1/2 inch deep, 475 lbs per 1000 ft.
  - 3. Furring channels 3/4 inch deep, 300 lbs per 1000ft.
- B. Steel Rigid Furring Channels. Hat-shaped, depth of 7/8 inch, and minimum thickness of base (uncoated) metal 0.0179 inch.
- C. Grid Suspension Systems. ASTM C 645, manufacturer's standard grid suspension system composed of main beams and cross furring members which interlock to form a modular supporting network.
- D. Wire for Hangers and Ties, Hanger Rods, Flat Hangers, and Angle-Type Hangers as required. Wire to be Class 1 zinc coated soft temper. Hanger Rods and Flat Hangers to be mild steel, zinc coated or rust protected. Angle-Type Hangers to have legs not less than 7/8 inch wide formed from galvanized steel sheet with bolted connections.

2.03 Steel Framing for Walls and Partitions.

**TILE 09300 / 2**



- A. Clear Tempered Float Glass: Kind FT, Condition A, Type I, Class 1, Quality q3.
- B. Clear Heat-Strengthened Float Glass: Kind HS, Condition A, Type I, Class 1, Quality q3.

2.07 Miscellaneous Glazing Materials.

- A. Compatibility. Provide materials with proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers. Type recommended by sealant or gasket manufacturer.
- C. Setting Blocks. Neoprene, EPDM, or silicone blocks as required for compatibility with glazing sealants, 80 to 90 Shore A durometer hardness.
- D. Spacers. Neoprene, EPDM or silicone blocks, or continuous extrusions, as required for compatibility with glazing sealant, of size, shape and hardness recommended by glass and sealant manufacturers for application indicated.
- E. Edge Blocks. Neoprene, EPDM or silicone blocks as required for compatibility with glazing sealant, of size and hardness required to limit lateral movement (side-walking) of glass.
- F. Compressible Filler Rods. Closed-cell or waterproof-jacketed rod stock of synthetic rubber or plastic foam, flexible and resilient, with 5-10 psi compression strength for 25 percent deflection.

**Part 3 EXECUTION**

- 3.01 General: Comply with referenced FGMA standards and instructions of manufacturers of glass, glazing sealants, and gaskets, to achieve airtight and watertight performance, and to minimize breakage.
- 3.02 Protect glass from edge damage during handling and installation. Inspect glass during installation and discard pieces with edge damage that could affect glass performance.
- 3.03 Set units of glass in each series with uniformity of pattern, draw, bow and similar characteristics.
- 3.04** Protect glass from contact with contaminating substances resulting from construction operations; remove any such substances by method approved by glass manufacturer.
- 3.05 Wash glass on both faces not more than 4 days prior to date scheduled for inspections intended to establish date of substantial completion. Wash glass by method recommended by glass manufacturer.

END OF SECTION 08800

- E. Equip exit devices with dogging devices where door has closer, except when door is fire-rated.
- F. Locks: Equip lock sets with 6-pin tumbler type lock cylinders, in a masterkey system, to be designated by Owner.
  - 1. Construction Locks: Either temporary cylinders for construction period, or temporary construction keying which is automatically voided through use of Owners' keys.
  - 2. Provide 3 change keys for each lock, plus 5 masterkeys for each master key system. Stamp keys "DO NOT DUPLICATE".
  - 3. Provide key control system, including metal cabinet with 150% capacity, envelopes, labels, tags, clips, forms, card index and markers; standard system with keys installed and index prepared by key control manufacturer.

2.03 Door Control Devices:

- A. Mfrs. of Overhead Closers: Corbin, Dorma, LCN\*, Norton, S. Parker, Rixson-Firemark, Russwin, Sargent Yale.
- B. Mfrs. of Holders, Stops, Bumpers: Baldwin, Brookline, Builders Brass Works, Cicpo, Corbin, Door Controls Int'l., Glynn-Johnson\*, Ives, Liberty, S. Parker, Quality, Sargent, Stanley, or Triangle Brass.
  - 1. Provide grey rubber exposed resilient parts.
- C. Finish exposed metal to match hardware, except finish floor plates to match thresholds.
- D. Size and mount units indicated or, if not indicated, to comply with mfr.'s recommendations for the exposure condition. Reinforce the substrate as recommended.
- E. Where parallel-arm closers are indicated, provide units one size larger than recommended for standard-arm units.

2.04 Silencers: Provide silencers in metal door frames, unless not permitted for fire rating, or unless bumper-type weatherstripping is provided; 3 per single-door frame, 4 per double-door frame.

2.05 Mfrs. of Bi-fold Door Hardware Sets: Lawrence, or Stanley\*.

**Part 3 EXECUTION**

3.01 Hardware Mounting Heights: Door and Hardware Institute "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames", except as otherwise indicated.

3.02 Install each hardware item to comply with manufacturer's instructions and recommendations.

3.03 Hardware Adjustment: Return to project one month after Owner's occupancy, and adjust hardware for proper operation and function. Instruct Owner's personnel in proper maintenance and adjustment.

END OF SECTION 08710

- D. Wood Beads for Light Openings in Fire Doors: Manufacturer's standard fire-rated wood-veneer beads matching veneer species of door faces.

**Part 3 EXECUTION**

- 3.01 Shop prime exposed portions of doors for field-applied opaque finish with one coat of wood primer specified in Division-9 section "Painting".
- 3.02 Shop seal faces and edges of doors for field-applied transparent finish with stain (if required) and other required pretreatments and first coat of finish as specified in Division-9 section "Painting".
- 3.03 At contractor's discretion doors may be ordered with factory transparent finish.  
  
Transparent Finish: Comply with requirements indicated for grade, finish system, staining effect and sheen.
  - A. AWI Grade: Custom.
  - B. Finish: Manufacturer's standard finish with performance requirements comparable to either AWI System #2 catalyzed lacquer or AWI System #3 alkyd-urea conversion varnish.
  - C. Staining: None required.
  - D. Effect: Open grain finish.
  - E. Sheen: Satin-medium rubbed effect.
- 3.04 Install wood doors to comply with manufacturer's instructions and of referenced AWI standard and as indicated.
- 3.05 Install fire-rated doors in corresponding fire-rated frames in accordance with requirements of NFPA No. 80.
- 3.06** Align and fit doors in frames with uniform clearances and bevels. Machine doors for hardware. Seal cut surfaces after fitting and machining.
- 3.07 Prefit Doors: Fit to frames for uniform clearance at each edge.
- 3.08 Factory-Finished Doors: Restore finish before installation, if fitting or machining is required at the job site.

END OF SECTION 08211







- B .** Transparent Finish for Open-Grain Woods: Provide the following finish in compliance with AWI "Architectural Woodwork Quality Standards," Section 1500.
1. Grade: Premium.
  2. **AWI Finish System #3:** Conversion varnish.
  3. Staining: Match Architect's sample.
  4. Effect: Open grain.

**Part 3 EXECUTION**

- 3.01** Install woodwork to comply with AWI Section 1700 for same grade specified in Part 2 of this section for type of woodwork involved.

END OF SECTION 06402

**Part 2 PRODUCTS**

2.01 Schedule of Finish work as follows:  
See Drawings for details

A. Storage Closet Shelving:

1. Provide adjustable shelves of depth and in number indicated in drawings. Melamine shelving w/ adjustable tracks at sides in small cabinets; melamine shelving w/ adjustable heavy duty brackets in closets.

B. Coat Closets

1. Provide 3/4" birch plywood w/ birch edge banding and front edge as drawn; fir closet rod

C. Shelving systems

1. Provide laminate covered plywood boxes w/ adjustable melamine shelves as drawn.

D. Base and upper cabinets

1. Provide laminate covered doors, drawers, shelves; laminate countertops

E. Counters

1. Provide laminate-covered counter tops w/ preformed 45 degree beveled edge if available

F. Staff Lounge Cabinetry

1. Provide natural wood flat panel full overlay doors w/ hardwood countertop. Cabinet Construction: Wall and base cabinets shall be of the same construction and outside appearance and must have face frames. Construct cabinets of solid lumber and plywood with wood veneer core. No particle board, flakeboard, fiberboard or hardboard will be accepted. Brace all cabinets as necessary to produce sturdy rigid construction. Provide an integral toe space of at least 3" x 3". Only first quality methods, materials, and workmanship will be used. Provide corrosion resisting hardware. Hinges shall be manufacturer's standard heavy duty. Cabinet drawers shall be mounted on metal side rails with 75 lbs. loading capacity. Exposed surfaces and interiors of cabinet shall be factory finished consisting of stain, sealer, and polyurethane coats, or an equivalent coating system, lightly sanded between application. Sealer and top coat must be oven dried. Color shall be selected by Architect or Owner from manufacturer's standard colors.

G. B. Reception counter:

1. Lumber Species for Transparent Finish: Maple, Mahogany or other dark species
3. Sliding glass tracks and frames: Hefele system: see drawings
4. Laminate: Wilson Art TBD

H. Chair rails in both waiting rooms:



**Part 3 EXECUTION**

- 3.01** Finish work. All items of millwork shall be carefully erected, leveled and plumbed with tight-fitting joints and square corners, carefully cut and secured. Exposed nails shall set adequately for putty. Moulds and faces shall be free from hammer or other tool marks, clean-cut and true pattern. All work shall be thoroughly cleaned and sanded to receive the finish. Sharp corners of small members of finished woodwork shall be slightly rounded. Where necessary, woodwork shall be scribed to adjacent work.
- 3.02** Except as otherwise specified hereunder, fabricate all millwork items in strict accordance with the workmanship standards set forth in the AWI Quality Standards Section 400, and 600 for Custom Grade.
- 3.03** Just prior to the completion of all work under this Section, inspect all portions of the Work, accompanied by the Architect, and make any required adjustments or corrections to the work.

END OF SECTION 06200

**3.04** Installation of Miscellaneous Specialties. Refer to Toilet and Bath Accessories Specialties Section for items requiring installation hereunder. Receive all such items, and install in accordance with the instructions of the various manufacturers, using installation accessories furnished with the specific item.

- 1.09 Bind warranties and bonds in heavy-duty, commercial quality, durable 3-ring vinyl covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2" by 11" paper.
- A. Provide heavy paper dividers with celluloid covered tabs for each warranty. Mark the tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product, and the name, address and telephone number of the installer.
  - B. Identify each binder on the front and the spine with the typed or printed title "WARRANTIES AND BONDS," the Project title or name, and the name of the Contractor.
- 1.10 When operating and maintenance manuals are required for warranted construction, provide additional copies of each warranty, as necessary, for inclusion in each required manual.

END OF SECTION 01740



- A. Upon completion of reinspection, the Architect will prepare a certificate of final acceptance, or advise the Contractor of work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance.
  - B. If necessary, reinspection will be repeated.
- 1.05 Record Document Submittals: Do not use Record Documents for construction purposes; protect from loss in a secure location; provide access to Record Documents for the Architect's reference.
- 1.06 Record Drawings.
- A. Maintain a clean, undamaged set of blue or black line white-prints of Contract Drawings and Shop Drawings. Mark-up these drawings to show the actual installation. Mark whichever drawing is most capable of showing conditions accurately. Give particular attention to concealed elements that would be difficult to measure and record at a later date.
  - B. Organize record drawing sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates and other identification on the cover.
- 1.07 Record Specifications: Maintain one copy of the Project Manual, including addenda. Mark to show variations in actual Work performed in comparison with the Specifications and modifications. Give particular attention to substitutions, selection of options and similar information on elements that are concealed or cannot be readily discerned later by direct observation. Note related record drawing information and Product Data.
- Upon completion of the Work, submit record Specifications to the Architect for the Owner's records.
- 1.08 Maintenance Manuals: Organize maintenance data into sets of manageable size. Bind in individual heavy-duty 2-inch, 3-ring vinyl-covered binders, with pocket folders for folded sheet information. Mark identification on front and spine of each binder. Include the following information:
- A. Emergency instructions.
  - B. Spare parts list.
  - C. Copies of warranties.
  - D. Wiring diagrams.
  - E. Recommended "turnaround" cycles.
  - F. Inspection procedures.
  - G. Shop Drawings and Product Data.
  - H. Fixture lamping schedule.
- 1.09 Operating and Maintenance Instructions.
- A. Arrange for the installer of equipment that requires regular maintenance to meet with the Owner's personnel to provide instruction in proper operation and maintenance. Include a detailed review of the following:
    - 1. Maintenance manuals.
    - 2. Spare parts and materials.
    - 3. Tools.
    - 4. Lubricants.
    - 5. Control sequences.

- C. Architect's Action: Within one week of receipt of the request for substitution, the Architect will request additional information necessary for evaluation. Within 2 weeks of receipt of the request, or one week of receipt of additional information, which ever is later, the Architect will notify the Contractor of acceptance or rejection. If a decision on use of a substitute cannot be made within the time allocated, use the product specified. Acceptance will be in the form of a Change Order.

1.03 Substitutions: The Contractor's substitution request will be received and considered by the Architect when one or more of the following conditions are satisfied, as determined by the Architect; otherwise requests will be returned without action except to record noncompliance with these requirements.

- A. Extensive revisions to Contract Documents are not required.
- B. Proposed changes are in keeping with the general intent of Contract Documents.
- C. The request is timely, fully documented and properly submitted.
- D. The request is directly related to an "or equal" clause or similar language in the Contract Documents.
- E. The specified product or method of construction cannot be provided within the Contract Time. The request will not be considered if the product or method cannot be provided as a result of failure to pursue the Work promptly or coordinate activities properly.
- F. The specified product or method of construction cannot receive necessary approval by a governing authority, and the requested substitution can be approved.
- G. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit, after deducting offsetting responsibilities the Owner may be required to bear. Additional responsibilities for the Owner may include additional compensation to the Architect for redesign and evaluation services, increased cost of other construction by the Owner or separate contractors, and similar considerations.
- H. The specified product or method of construction cannot be provided in a manner that is compatible with other materials, and where the Contractor certifies that the substitution will overcome the incompatibility.
- I. The specified product or method of construction cannot be coordinated with other materials, and where the Contractor certifies that the proposed substitution can be coordinated.
- J. The specified product or method of construction cannot provide a warranty required by the Contract Documents and where the Contractor certifies that the proposed substitution provide the required warranty.

1.04 The Contractor's submittal and Architect's acceptance of Shop Drawings, Product Data or Samples that relate to construction activities not complying with the Contract Documents does not constitute an acceptable or valid request for substitution, nor does it constitute approval.

END OF SECTION 01631

**PRODUCT SUBSTITUTIONS 01631/2**



- B. Sheet Size: Except for templates, patterns and similar full-size Drawings, submit Shop Drawings on sheets at least 8-1/2" x 11" but no larger than 36' x 48".
- C. Final Submittal: Submit 3 prints; if the Drawing is required for maintenance manuals submit 5 prints. 2 prints will be retained; the remainder will be returned. One of the prints returned shall be maintained as a "Record Document".
- D. Do not use Shop Drawings without a final stamp indicating action taken in connection with construction.

1.06 Product Data: Collect Product Data into a single submittal for each element or system. Mark each copy to show applicable choices and options. Where Product Data includes information on several products, some of which are not required, mark copies to indicate the applicable information. Include the following information:

- A. Manufacturer's printed recommendations.
- B. Compliance with recognized trade association standards.
- C. Compliance with recognized testing agency standards.
- D. Application of testing agency labels and seals.
- E. Notation of dimensions verified by field measurement.
- F. Notation of coordination requirements.

1.07 Submittals.

- A. Submit 4 copies of each required submittal. The Architect and Owner will retain one each, and will return the others marked with action taken and corrections or modifications required.
- B. Unless noncompliance with Contract Document provisions is observed, the submittal may serve as the final submittal.

1.08 Distribution.

- A. Furnish copies of final submittal to installers, and others required for performance of construction activities. Show distribution on transmittal forms. Do not proceed with installation until an applicable copy of Product Data is in the installer's possession.
- B. Do not permit use of unmarked copies of Product Data in connection with construction.

1.09 Samples.

- A. Submit full-size Samples cured and finished as specified and identical to the product proposed. Mount, display, or package Samples to facilitate review. Prepare Samples to match the Architect's Sample. Include the following:
  1. Generic description.
  2. Source.
  3. Product name or name of manufacturer.
  4. Compliance with recognized standards.
  5. Availability and delivery time.
- B. Submit Samples for review of kind, color, pattern, and texture, for a final check of these characteristics, and a comparison of these characteristics between the final



**1.04** Reporting: No later than **3** days after each meeting, distribute copies of minutes of the meeting to each party present and to parties who should have been present. Include a summary, in narrative form, of progress since the previous meeting.

END OF SECTION 01200



- H. Update and resubmit the schedule when Change Orders or Construction Change Directives change the Contract Sum. List the change orders as a new line item.

1.03 Applications for Payment.

- A. Each Application for Payment shall be consistent with previous applications and payments as certified by the Architect and paid for by the Owner.
- B. Payment Application Times: Payments will be made monthly or as agreed upon in contract between Owner and Contractor.
- C. Payment Application Forms: Use AIA Document G 702 and Continuation Sheets G 703 as the form for the application.
- D. Application Preparation: Complete every entry, including notarization and execution by person authorized to sign on behalf of the Owner. Incomplete applications will be returned without action.
- F. Entries shall match data on the Schedule of Values and Contractor's Construction Schedule. Use updated schedules if revisions have been made.
- G. Include amounts of Change Orders and Construction Change Directives issued prior to the last day of the period covered by the application.
- H. Transmittal: Submit **3** executed copies of each application to the Architect within 24 hours; one copy shall be complete, including waivers of lien and similar attachments.
- I. Transmit each copy with a transmittal listing attachments, and recording information related to the application.
- J. Waivers of Lien: With each application, submit waivers of lien from every entity who may file a lien arising out of the Contract, and related to the Work covered by the payment.
  - 1. Submit partial waivers on each item for amount requested, prior to deduction for retainage, on each item.
  - 2. When an application shows completion of an item, submit final or full waivers.
  - 3. Waiver Delays: Submit each application with Contractor's waiver of lien for the period covered by the application.
  - 4. Submit final Application for Payment with final waivers from every entity involved with performance of Work covered by the application who could be entitled to a lien.
- K. Waiver Forms: Submit waivers of lien on forms, and executed in a manner, acceptable to Owner.

**1.04** Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of the first Application for Payment include:

- A. List of subcontractors.
- B. List of suppliers and fabricators.
- C. Schedule of Values.

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