

SECTION 05500 - METAL FABRICATIONS

1.1 General: Provide metal fabrications as shown and specified.

- A. Submit shop drawings for the following:
1. Patio Rail systems.
a. Show thickness, size, construction and manner of assembling various members, joint locations and railing layout.
b. Show true profiles, connections and relationship to adjoining work and methods of anchoring.

2.1 Materials

- A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.
B. Steel Shapes: ASTM A36/A36M, 36 ksi steel.
C. Stainless Steel:
1. Wall: 18 gage, ASTM A316, AISI Type 304 stainless steel, No. 4 finish.
D. Diamond Plate: Nominal 1/8" thick ASTM B209, Alloy 6061-T6, Aluminum Diamond Tread Plate.
1. Wall: Bright reflective finish.
2. Floor: Mill finish.
E. Patio Railing System
1. Submit shop drawings including the following:
a. Show thickness, size, construction and welding, as well as assembly drawings.
b. Show true profiles, connections of all proposed joint configurations.
c. Show installation (fastening) and proposed grommet (non-grout-in-place) details.
d. Show gate detail and gate hardware manufacturer and model number.
e. Patio railing plan, with dimensions and panel assembly locations.
2. Fabrication
a. Panels and gates shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.
b. Corner connector angles shall be 1/2" x 2 1/2" x 1/4" steel, L angle.
c. Gate hinges shall be a self-closing, adjustable tension type. Hinge installation shall be drilled and tapped. Permanently welded are unacceptable.
d. Gate stop shall have a rubber cushion stop and be affixed to the active gate.
e. All corners and joints shall be seal welded and outside joints ground smooth.
f. All welding spatter shall be removed before sand blasting.
3. Finish
a. Patio railing shall be painted PPG Durethane, color 518-6 Knight's Armor. Refer to Section 09000 - Paints and Coatings for preparation.

F. Exposed Fasteners

- 1. Diamond Plate: #8 x 1" level headed stainless steel screw.
2. Patio Railing:
a. All fasteners shall be stainless steel and powder coated to match railing sections.
b. Spacer washers separating railing sections shall be 1/2" diameter and 1/2" thick they shall be one piece thick washers and not composed of stacking washers.
c. Spacer washers shall be used on all straight sections and when railing panels join at 90 degree corner angles.

G. Shop paint primer: Refer to Section 09000 - Paints and Coatings

3.1 Installation: Comply with the Architectural Drawing details and the following:

- A. Exposed Fasteners:
1. Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish.
2. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.
B. Stainless Steel:
1. Wall:
a. Clean stainless steel panel with mineral spirits.
b. Install stainless steel panels with Heavy 117 oil based adhesive applied to wall with 1/8" notch tooth trowel.
c. Trim seams as indicated on the Drawings. No exposed fasteners.
C. Diamond Plate:
1. Wall: Mount over plywood substrate w/ flush exposed fasteners.
2. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation.
3. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.
D. Patio Railing System:
1. Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter.
2. Railing posts shall be grouted in using non-grout-in-place grout.
3. Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet.
E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

1.1 General: Provide rough carpentry work as shown and specified.

- A. Standards: Materials and construction shall conform to following:
1. NIST PS-1-95 "Construction and Industrial Plywood."
2. NIST PS-2-95 "Performance Standards for Wood-Based Structural-Use Panels."
3. NIST PS-20-99 "American Softwood Lumber Standard."
4. NFPA NDS-97 "Wood Construction and Supplement."
5. AWWA "Wood Treatment Standards."

2.1 Materials

- A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content, complying with PS-20, dimensions indicated.
1. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber - Southern Pine species.
a. Provide preservative treated lumber, where indicated.
B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick.
1. APA-RATED SHEATHING EXPL.
a. Provide Exterior Grade (E) plywood, where indicated.
b. Provide fire-retardant treated plywood, where required by Building Code.
C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick.

2.2 Wood Treatment

- A. Preservative Treatment: Comply with applicable requirements of AWWA Standards C2 (Lumber).
1. Pressure preservative treated lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25pcf.
2. Treat wood blocking, nailers and similar members in connection with roofing and flashing.
3. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.
B. Fire-Retardant Treatment: Comply with applicable requirements of AWWA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking.
1. Treated materials shall meet "Interior Type A" FR-R ratings of not more than 25 for frame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes.
C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.

3.1 Installation

- A. Lumber: Provide wood blocking, nailers and similar members where shown and where required for attachment of other work and surface applied items. Attach to substrate as required to support applied loading.
1. Use only sound, seasoned materials of longest practical lengths and sizes to minimize joints.
2. Use materials free of warp. Make tight connections between members.

SECTION 06210 - FINISH CARPENTRY AND MILLWORK

1.1 General: Provide finish carpentry and millwork as shown and specified.

- A. Standards: Materials and construction shall conform to the following:
1. AWI "Architectural Woodwork Quality Standards - 1999."
B. Doors and door hardware: Install all door hardware furnished under Division 8 specification Sections.
C. Submit shop drawings for designated millwork.
1. Include complete details, materials lists and drawings showing fabrication of typical units, unit assemblies, locations and installation details.
2. List proposed cabinet hardware to suit indicated unit use or function.
3. Identify materials required to complete work ready for installation.
4. Obtain shop drawing approval before starting fabrication.

2.1 Materials

- A. Plywood: AWI Section 200
1. Concealed use substrates: D-3 Paint Grade hardwood plywood, with aspen veneer core, 3/4" thick.
2. Exposed to view finishes: Plumb Creek, AC Sanded Exterior Fir plywood, 23/32" thick by 4'-0" by 8'-0". Pressure treated with d-borate to meet Class A Fire rating, where required.
B. Millwork: Materials and construction as detailed on the Drawings.
C. Fabrication:
1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings.
2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option.
a. All shop joints made with standard construction adhesive glued under pressure.
3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place.
4. Fabricate work straight, plumb, level and in true alignment; and secure with carefully fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects.
5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work.
D. Finish: Provide exposed to view plywood shoo finished with clear dull sheen M. Campbell Krystal conversion varnish. Apply two coats with scuff sanding in between. All cuts in field are to be sanded smooth and finished with clear dull sheen M. Campbell High Performance Pre-Cat Lacquer. Apply two coats with scuff sanding between.

3.1 Installation

- A. Install finish carpentry and millwork products plumb, level, true and straight with no distortion. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops) and with 1/16" maximum offset in finish adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces.
1. Scribe and cut finish carpentry and millwork products to fit adjoining work.
2. Anchor finish carpentry and millwork items to built-in place blocking, furnished under Section 06200, or directly attach to substrate framing. Secure to grounds, blocking and nailers with countersunk, concealed fasteners and blind nailing as required for a complete installation. Use finish nails for exposed nailing.
3. Countersunk and filled flush with woodwork and matching final finish where clear finish is indicated.
4. Touch-up shop finished plywood materials marred or damaged during delivery, storage and installation with custom blended polyurethane to equal Minwax "Wipe on Poly".
B. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide proper clearances.
C. Install plastic laminate countertops, shelving and trim. Provide work plumb, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.

SECTION 06605 - FIBERGLASS REINFORCED PLASTIC PANELS

1.1 General: Provide fiberglass reinforced plastic panels as shown and specified.

2.1 Materials

- A. Manufacturer: Marite, (330) 343-6621, internet www.marite.com
B. Panel System: "P6 Per Finish Schedule, Series Standard FRP - "Marite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Gloss, smooth matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation.
a. Divison - M365
b. Sealant: Marite "Silicone Sealant", white gunnable silicone sealant.
c. Panel adhesive: Marite "C-551" water-based construction adhesive for panel application over porous surfaces.
2. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation.
a. Divison - M365
b. Sealant: Marite "Silicone Sealant", white gunnable silicone sealant.
c. Panel adhesive: Marite "C-551" water-based construction adhesive for panel application over porous surfaces.

3.1 Installation

- A. Install the FRP system products using panel adhesive in accordance with the manufacturer's instructions and layout as shown in drawings.
1. Install panels plumb, level, true and straight with no distortion; providing a continuous bead of silicone sealant in each joint and trim groove and between trim and adjacent construction.
2. Provide corner trim, closure trim at intersections of dissimilar materials and moldings at abutting panels.

SECTION 07210 - BUILDING INSULATION

1.1 General: Provide building insulation as shown and specified.

2.1 Materials

- A. Extruded polystyrene foam rigid board insulation: Owens Corning Corp., 866-583-2583, internet www.dowinsulation.com
1. Type Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated.
2. Perimeter foundation walls: Styrofoam SE, R-value indicated/2" thickness.
B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com
1. Type Owens Corning "Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665. Provide lengths and widths required to coordinate with spaces insulated.
2. Exterior walls: Unfaced, R-value/thickness indicated.

C. Vapor barrier membrane: Polyethylene, minimum 6 mil thick, complying with ASTM D 4397, maximum permeance rating of 0.13 perm.

- 1. Joint tape: Pressure sensitive tape designed for sealing joints and penetrations of above and below grade vapor barrier sheets.
2. Mounting tape: Double-faced pressure sensitive tape suitable for mounting vapor barriers to steel framing.

3.1 Installation

- A. General:
1. Install insulation in accordance with manufacturer's recommendations for conditions of installation indicated. Install insulation in single layer of required thickness over entire area to be insulated. Cut and fit tightly around obstructions. Fill all voids.
2. Install exterior wall insulation continuous behind electrical boxes, conduit, piping and ductwork.
B. Foundation perimeter walls and slabs:
1. Install rigid foam insulation vertically from top of slab to frost line or horizontally under slabs, extending a minimum 36" in from exterior walls.
2. Protect insulation from displacement and damage during backfilling and slab placement.
C. Exterior Walls:
1. Install batt/blanket insulation full height at exterior wall framing. Use blanket widths and lengths that fill cavities formed by framing members and provide a friction fit between edges of insulation and metal framing members.
2. Provide gipswood wire mesh or metal strapping to provide supplementary support when required to maintain insulation in permanent proper location.
D. Vapor Barriers:
1. Install a single layer of vapor barrier membrane over the interior of exterior metal wall framing after installation of insulation. Secure with double faced tape at wall framing.
2. Provide single unfaced material height. Horizontal joints not acceptable. Minimize vertical joints. Lap vertical joints and secure in place with joints taped. Provide tape sealed contact with door frames, window frames, piping, conduit, ductwork, registers and the vapor barrier.
3. Seal all cuts and penetrations of vapor barrier membrane with tape before installing surface finishes.

NOT USED

1.1 General: Provide the exterior insulation and finish system (EIFS) as shown and specified.

- A. Standards: Manufacture of substrate shall conform to the following:
1. EIFS (EIFS) substrate: Fiberglass Reinforced Polymer (FRP) substrate:
a. 1/2" thick, 48" wide x full height required. Color: P100 White, Gloss, smooth matte surface texture. USDA approved for incidental food contact.
b. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation.
c. Divison - M365
d. Sealant: Marite "Silicone Sealant", white gunnable silicone sealant.
e. Panel adhesive: Marite "C-551" water-based construction adhesive for panel application over porous surfaces.
2. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation.
a. Divison - M365
b. Sealant: Marite "Silicone Sealant", white gunnable silicone sealant.
c. Panel adhesive: Marite "C-551" water-based construction adhesive for panel application over porous surfaces.
B. Millwork: Materials and construction as detailed on the Drawings.
C. Fabrication:
1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings.
2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option.
a. All shop joints made with standard construction adhesive glued under pressure.
3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place.
4. Fabricate work straight, plumb, level and in true alignment; and secure with carefully fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects.
5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work.
D. Finish: Provide exposed to view plywood shoo finished with clear dull sheen M. Campbell Krystal conversion varnish. Apply two coats with scuff sanding in between. All cuts in field are to be sanded smooth and finished with clear dull sheen M. Campbell High Performance Pre-Cat Lacquer. Apply two coats with scuff sanding between.

A.1. Materials

- 1. Moisture barrier: 6 mil thick, 48" wide x full height required. Color: P100 White, Gloss, smooth matte surface texture. USDA approved for incidental food contact.
2. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation.
a. Divison - M365
b. Sealant: Marite "Silicone Sealant", white gunnable silicone sealant.
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C.1. Installation

- 1. Install the FRP system products using panel adhesive in accordance with the manufacturer's instructions and layout as shown in drawings.
2. Provide corner trim, closure trim at intersections of dissimilar materials and moldings at abutting panels.

2.1 Materials

- A. Manufacturer: Marite, (330) 343-6621, internet www.marite.com
B. Panel System: "P6 Per Finish Schedule, Series Standard FRP - "Marite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Gloss, smooth matte surface texture. USDA approved for incidental food contact.
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SECTION 07210 - BUILDING INSULATION

1.1 General: Provide building insulation as shown and specified.

2.1 Materials

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1. Type Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated.
2. Perimeter foundation walls: Styrofoam SE, R-value indicated/2" thickness.
B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com
1. Type Owens Corning "Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665. Provide lengths and widths required to coordinate with spaces insulated.
2. Exterior walls: Unfaced, R-value/thickness indicated.

D.1. NOT USED

- 1. Moisture barrier: 6 mil thick, 48" wide x full height required. Color: P100 White, Gloss, smooth matte surface texture. USDA approved for incidental food contact.
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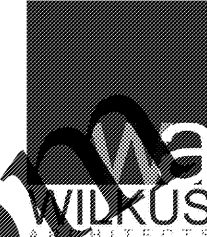
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Consultant:



15. North Avenue Street, 14 Springs, N.W. 58243

Phone: 952.944.1860 Fax: 952.944.1861

Signature line for 30 August, 2017

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