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Contents:

Architectural Specifications

A012

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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 A167, AISI Type 304 stainless steel, No. 4 finish.
2. Corner Cove Base: Custom by Decimet Sales, Inc., Contact Tony Hines or Lisa Pappenfus at (763) 428-4321. (No substitutes)
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 typical joint configurations
c. Show installation (fastening) and proposed groud (non-gypsum base)
d. Show gate detail and gate hardware manufacturer and model number
e. Patio railing plan, with dimensions and panel assembly locations.
2. Fabrication
a. Patio rails and gate shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.
b. Corner connector angles shall be 2 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 09900 - Paints and Coatings for preparation.
F. Exposed Fasteners:
1. Diamond Plate: #8 x 1" bevel 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 comprised 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 09900 - Paints and Coatings
3.1 Installation: Comply with the Architectural Drawing details and the following:
A. Exposed Fasteners:
1. Corrugated Siding: Provide uniform 8" vertical and 7-3/8" horizontal pattern. All screws shall be in the "valley". Screws shall commence approximately 3" from the side and 3" from the bottom edge of the rainscoat. Exposed fasteners shall remain unpainted in natural factory supplied finish.
2. 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.
3. 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 Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel.
c. Trim seams as indicated on the Drawings. No exposed fasteners.
2. Corner Cove Base: Install a day prior to quarry tile base. Apply adhesive liberally to the back of the corner cove base and press and tape firmly in place until adhesive has set. Neatly caulk the top of the stainless with GE Silicone II (color Aluminum).
a. Over Cement Board: Bond with GE Silicone II, 100% silicone sealant for aluminum and metal.
b. Over Stainless Steel: Bond with Hydroment Ultra-Set.
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 gypsum quick set 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. NF&PA 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 or 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 (EXT) 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 treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf.
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-S ratings of not more than 25 for flame 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.
C. Millwork: Materials and construction shall be detailed on the Drawings.

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 Face Exterior Fir plywood, 23/32" thick by 4'-0" by 8'-0". Pressure treated with d-bi-aze 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; neatly and accurately 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 shop finished with clear dull sheen ML 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 ML 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 flush 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 06100, 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 unobstructed operation.
C. Install plastic laminate countertops, shelving and trim. Provide work level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other supp
2.2 Materials:
A. Manufacturer: Marlite, (330) 343-6621, internet www.marlite.com.
B. Panel System: Marlite "Fiberglass Reinforced Polyester (FRP) Panels", 3/32" thick, 48" wide x full height required. White color, pebbled high gloss surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide 1-1/2" x 1-1/2" inside corners, edge trim, and division moldings as required to complete the installation.
2. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
3. Panel adhesive: Marlite "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.
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: Dow Chemical Co., 866-583-2583, internet www.dowbuildingmaterials.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 mils 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 galvanized 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 unspliced 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 - INSULATION AND FINISH SYSTEM (PB)

- 1.1 General: Provide the exterior insulation and finish system (EIFS) as shown and specified.
A. Standards: Materials and construction shall conform to the following:
1. EIMA (EIFS Industry Members Association) Standards and Publications.
a. 101.01, 101.02, 101.03, 101.06, 105.01, 200.02
b. EIMA "Guideline Specification for Expanded Polystyrene (EPS) Insulation board."
B. Quality Assurance:
1. System components:
a. Produced by a single manufacturer or by manufacturers approved by the EIFS system manufacturer.
b. Fire performance: Flame spread of 25 or less, smoke developed of 450 or less when tested in accordance with ASTM E84.
2. Installer Qualifications: Performed by the system manufacturer or an applicator trained and approved by the system manufacturer. During application, the work shall be inspected by system manufacturer's representative.
C. Environmental conditions: Comply with manufacturer's requirements. Do not install materials during wet or freezing weather.

2.1 Materials:

- A. Manufacturer: STO Corp., (800) 221-2397, internet www.stocorp.com
B. Exterior insulation and finish system: Sto Class PB "Essence Next" EIFS.
1. Air/Moisture barrier: Sto Guard system.
a. Sto Gold Fill joint compound for rough opening protection, sheathing joints and inside and outside corners.
b. Sto Guard Mesh: Coated glass fiber fabric reinforcing mesh.
c. Sto Gold Coat: Waterproof coating for wall sheathing.
2. Primer/adhesive and base coat: Sto Primer/Adhesive B, one-component, polymer modified, cement-based factory blended primer/adhesive used to attach insulation board to prepared sheathing substrates and as a base coat in Essence claddings.
3. Insulation board: ASTM C578 Type I, nominal 1.0 lb/ft³ expanded polystyrene meeting EIMA Guideline specifications for EPS insulation board.
4. Finish coating: Sto Essence DFR, ready-mixed 100% acrylic-based, textured wall coating.
a. Medium/Fine Sand Finish.
b. Color as indicated on the Architectural drawings from manufacturer's full color range or match custom color.
5. System warranty: 10 year labor and material.
C. Portland cement: ASTM C150, Type I or II, white or gray in color.
D. Water: Clean, potable and free of foreign matter.
E. Reinforcing mesh: Sto open-weave glass fiber fabric with alkaline resistant coating.
1. Standard mesh: Sto Mesh, nominal 4.5 oz/yd² fabric.
2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd² ultra-high impact fabric.
3. Specialty mesh:
a. Sto Detail Mesh, nominal 4.2 oz/yd² flexible, symmetrical, interlaced glass fiber fabric.
b. Sto Corner Mat, nominal 7.8 oz/yd² pre-creased, heavy-duty, glass fiber fabric.
F. Joint sealants: Polyurethane base elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements.
1. Adhesion: Evaluated in accordance with ASTM C1382.
2. Color: Matching EIFS finishing color, and visually acceptable to the Architect.
G. Accessories: Provide plastic stops and trim where indicated. Materials shall be compatible with EIFS materials and acceptable to EIFS manufacturer.
1. Starter Track: Rigid PVC plastic track with weepholes and drip edge.

3.1 Mixing

- A. Mix materials in accordance with manufacturer's published instructions.
1. Mix with a clean, rust-free high speed mixer to uniform consistency.
2. No rapid binder, anti-freeze or accelerator additives permitted.
4.1 Installation
A. Preparation:
1. Coordinate installation of roofing membrane, windows, doors and other wall penetrations to provide a continuous exterior wall air/moisture barrier.
2. Coordinate installation of windows, doors and window and door flashing to provide a continuous exterior wall air/moisture barrier.
3. Install copings and joint sealants immediately after installation of the EIFS, when EIFS coatings are dry.
B. Installation: Install Sto Guard air/moisture barrier system and exterior insulation and finish system (EIFS) in strict accordance with manufacturer's installation instructions, complying with governing regulations and industry standards applicable to the work.
1. Back wrap exposed board edges with mesh.
2. Provide double wrap or corner mat reinforcing at all inside and outside corners.
3. Provide expansion joints in accordance with manufacturer's recommendations for type of substrates and systems required, and visually acceptable to the Architect.
4. Provide drainable starter track horizontal edge trim as base of wall, above windows and doors openings and beneath windows with concealed flashing.

C. Insulation and adhesive application:

- 1. Install insulation board with long edge horizontal using running bond pattern. Off set insulation joints with substrate joints. Stagger joints and interlock joints at corners.
2. Apply adhesive to insulation board with a stainless steel trowel notched trowel, providing vertical uniform ribbons of adhesive when board is installed. Mount insulation board on substrate. Level, align and tamp insulation in place. Provide uniform contact and bond with joints tightly butted. Rasp edges and high areas as required to produce a level, plane surface.
A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications.
B. Fasteners:
1. For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer.
2. For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners.
3. For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners.
C. Adhesives:
1. Provide adhesive recommended by weather barrier manufacturer.
2. Products:
a. Liquid Nails LN-109
b. Polyglaze SM 5700
c. Denso Butyl Liquid
d. 3M High Strength 90
e. SIA 655
f. Adhesives recommended by the weather barrier manufacturer.
D. Primers:
1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
2. Product:
a. 3M High Strength 90
b. Denso Butyl Spray
c. SIA 655
d. Permagrip 105
e. ITW TACC Sol Put SPH
f. Primers recommended by the flashing manufacturer.
E. Flashing:
1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations.
2. DuPont StraightFlash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc.
3. DuPont StraightFlash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.