

OUTLINE SPECIFICATION

Project: Bayview Window & Roof Replacement

Location: Portland, Maine

Date: 4/26/11

Section 01010 – Summary of Work

- a. Scope of work includes: Removal and replacement of roofing materials and windows as shown on the drawings.
- b. The General Contractor shall be responsible for obtaining any & all required permits to construct the project and paying any & all impact fees that may be associated with the project.

Section 01300 – Submittals

- a. Shop drawings – Detailed shop drawings (including; drawings, product data, and samples) shall be provided for review as required. A minimum of four (4) copies shall be submitted for review.

Section 01500 – Temporary Facilities

- a. Sanitary Facilities – Existing toileting facilities are present in the building and may be used by the Contractor and their forces.
- b. Heat – The Contractor shall provide and maintain any temporary heating equipment as may be required. The interior of building shall have a temporary of approx. 60 deg. F for spackling of GWB, installation of wood finishes, installation of carpet and interior decoration. Existing heat and air shall be maintained to existing building tenant throughout course of project.
- c. Temporary stairs, ladders, ramps, hoists, scaffolding – Provide and maintain all necessary means of access as above listed or as required for proper execution of the work. Such work shall comply with the requirements of applicable Federal, State and Local laws and requirements.
- d. Demolition/Debris removal – It is the responsibility of the Contractor to make all required arrangements for the legal disposal of all debris generated from this project. The Contractor shall keep the building and site clean at all times and maintain safe access to and from the site for current building tenants.

Section 01700 – Project Closeout

- a. Clean up – The Contractor shall provide a thoroughly cleaned facility at the conclusion of the project. Use only cleaning materials and methods recommended by the manufacturer of the surface material to be cleaned.
- b. Transmission of extra material – The Contractor shall transfer extra material, i.e. flooring tiles, ceiling tiles, paint, etc... as define in the specifications.
- c. Maintenance data and instructional manuals – The Contractor shall transfer all required maintenance and instruction manuals.
- d. Guarantees and Warrantees – The Contractor shall transfer all required guarantees and warrantees to Owner at the conclusion of the project.
- e. Final Inspection – A final inspection shall be performed at the conclusion of the project by the Owner and the Architect. The issuance of the Certificate of Substantial completion and final payments shall be subject to the completion of the items generated during the final inspection.

Section 06100 – Rough Carpentry

- a. Lumber Standards – Furnish lumber manufactured to comply with PS 20 “American Softwood Lumber Standard” and with applicable grading rules of inspection agencies certified by American Lumber Standards Committee’s (ALSC) Board of Review.
- b. Light Framing – 2 inch to 4 inch thickness – Provide SPF No. 2 grade or better
- c. Light Framing/Pressure Treated 2 inch to 4 inch thickness, all widths – Provide the following Grade and Species for Pressure Treated lumber: No. 2 for framing, No. 3 for blocking, Southern Pine, per SPIB rules

Section 06200 – Finish Carpentry

- a. Quality Standard – AWI quality standard – “Architectural Woodwork Quality Standards” of the Architectural Woodwork Institute for grades of interior architectural woodwork, construction, finishes, and other requirements.
- b. Softwood Trim – Species: Eastern white pine (NELMA). Grade: Select. Texture: Surfaced (smooth). Solid lumber stock.
- c. Hardwood Trim – Species for transparent finish: Maple, plain sawn selected for compatible grain and color. Species for painted finish: Poplar, plain sawn. Texture: Surfaced (smooth). Solid lumber stock.
- d. Wood Molding Patterns – Provide stock moldings made to patterns indicated. Transparent finish – N Grade. Moldings for painted finish – P Grade.

Section 07200 – Insulation

- a. Building and Sound Attenuation Insulation – Unfaced mineral fiber blanket/batt insulation per ASTM C 665. Insulation to be provided by Certainteed, Owens Corning, Johns Manville or equal.
- b. Rigid Insulation – Rigid, cellular thermal insulation with glass fiber reinforced polyisocyanurate closed cell foam core and trillaminate aluminum foil face laminated to both sides. Celotex Tuff, Johns Manville Barrier Board or equal.
- c. Foam In Place Insulation – On site foam in place insulation Froth-Pac 1.75-25 FS Class 1 foam manufactured by Insta-Foam Products, Inc. or equal.
- d. Vapor Barrier – ASTM D 4397, 6.0 mil thick polyethylene, with a maximum permeance rating of 0.13 perms. Use pressure sensitive tape of type recommended by vapor retarder manufacturer for sealing all joints and penetrations.
- e. Insulation Support Anchors – Insul-Fast 25 gauge galvanized continuous metal support strip with prepunched tables at 8 inches on center.
- f. Commercial Wind Infiltration Barrier – Tyvex.

Section 07421 – Aluminum Panel Systems

- a. Insulated Metal Panels: 1” exterior insulated panels by High Standard Inc. or equal. To be installed with aluminum storefront.
 1. Face material – Standard architectural clear anodized .032 smooth aluminum.
 2. Face Substrate – 4 mm corrugated plastic
 3. Insulating core – 2.05 density polyisocyanurate.
 4. Back substrate – 4 mm corrugated plastic.
 5. Back material - .010 mill finish aluminum.
- b. Prefinished Architectural Panels: ProCore prefinished architectural panels by Citadel Architectural Products.
 1. 5/16” thick panels with smooth aluminum face, polypropylene core and smooth aluminum backer
 2. Provide with standard two piece moldings – battens.
 3. Install according to manufacturer’s recommended instructions for mechanical fastening.
 4. Finishes: Smooth - Standard Anodized Clear Satin exterior finish.

Section 07531 – Thermoplastic Membrane Roofing and Roof Insulation

- a. Provide fully adhered or mechanically attached Fabric Reinforced Thermoplastic Polyolefin (TPO) membrane roof system; UltraPly TPO Roofing System by Firestone Building Products Co.
- b. TPO Roofing Membrane: ASTM D C 6878, internally fabric or scrim reinforced, uniform, flexible TPO sheet. Thickness: 60 mils, nominal. Exposed Face Color: White.
- c. Sheet Flashing: Manufacturer's standard unreinforced thermoplastic polyolefin sheet flashing, 55 mils thick, minimum, of same color as sheet membrane.
- d. Bonding Adhesive: Manufacturer's standard bonding adhesives.
- e. Metal Termination Bars: Manufacturer's standard predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch thick, with anchors.
- f. Crickets and Flashing Accessories: Types recommended by membrane manufacturer, including adhesive tapes, flashing cements and sealants. Crickets – Johns Mansville tapered factory pre-cut crickets, extending to roof drain sumps.
- g. Fasteners: Factory coated steel fasteners and metal or plastic plates meeting corrosion resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer. Fasteners into preservative treated lumber shall be stainless steel..
- h. Adhesives and Cleaners: Provide bonding adhesive, edge sealant, water cut of mastic, splicing cement , sealer, and membrane cleaner specifically formulated by roofing manufacturer for the intended purpose and as required for a complete roof system. Provide adhesives that comply with project requirements to withstand 60 psf uplift force.
- i. Pipe Flashing: Provide membrane manufacturer's standard pre-molded flashing boot for flashing around pipe and conduit roof penetrations. Provide cone shaped flashing boot, heat welded to membrane with stainless steel clamping ring. Field formed pipe flashing not allowed..
- j. Flexible Walkways: Factory formed, nonporous, heavy duty, solid rubber, slip resisting, surface textured walkway pads or rolls, approximately 3/16 inch thick, by membrane roofing system manufacturer.
- k. Miscellaneous Accessories: Provide preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T joint covers, termination reglets, cover strips and other accessories.
- l. Roof Drains: Shall have flexible bellow to accommodate movement between drain and plumbing; sized to accommodate plumbing. Product: Johns Manville Flex-I-Drain. Rigid Components: GE Noryl resin with high UV resistance, tensile strength modulus, and heat deflection temperature resistance, meeting UL94V-1 requirements. Bellows: Molded neoprene flexible boot attached to integral deck flange with no hub pipe connection. Bellows shall allow differential movement up to one inch in any direction between roof deck and piping. Provide rubber adapter bushings as required for pipe size. Strainer: 4 inch high basket strainer – Black.
- m. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, felt or glass fiber mat facer on both major surfaces, CAN/ULC S770 Grade 2, 20 psi minimum. LTTR R-values: note less than R-6 per inch. ISO 95+ by Firestone Building Products, Polyiso HP-H by Carlisle SynTec Incorporated or equal. Provide roofing manufacturer's required insulation for total system warranty.
- n. Tapered Insulation: Provide factory tapered insulation boards fabricated to slope of ¼ inch per 12 inches, unless otherwise indicated. Tapered insulation shall meet requirements specified for board roof insulation. Tapered insulation shall be manufactured by same manufacturer of board roof insulation.
- o. Warranty: Roofing Contractor shall furnish to the Owner the manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks. The maximum wind speed coverage shall be peak gusts of 72 mph measured at 10 meters above ground level. Special warranty include roofing

membrane, base flashings, roofing membrane accessories, roof insulation, fasteners, walkway products, and other components of the membrane roofing system. Warranty Period: 15 years from date of Project Substantial Completion.

Section 07600 – Flashing and Sheet Metal

- a. Fascias, Drip edges, etc... - Aluminum shop formed, .040 inches thick in shapes and sizes at detailed on Drawings. Finish shall be premium fluorocarbon coating with KYNAR 500 resin. Finish shall conform to AAMA 605.2-80, and applied by licensed applicator. Color shall be as selected by Architect.

Section 07900 – Joint Sealants

- a. General Purpose Exterior Sealant (non masonry) – Polyurethane ASTM C920, Type S, Grade NS, Class 25, single component. Sonolastic NP-1 by Sonneborne or equal.
- b. General Purpose Exterior Sealant (masonry) – Polyurethane ASTM C920, Type M, Grade NS, Class 25, two component. Sonolastic NP-2 by Sonneborne or equal.
- c. General Purpose Interior Sealant – Acrylic emulsion latex ASTM C834, single component, paintable. Tremco Acrylic Latex or equal.
- d. General Purpose Interior Sealant (toilet fixtures, counters) – Acrylic emulsion latex ASTM C920, uses M and A, single component, mildew resistant. Sanitary 1700 by GE Silicones or equal.

Section 08400 – Aluminum Storefront and Entrances

- a. Storefront Framing – Provide Series 3000 Thermal MultiPane Framing system by VistaWall/Oldcastle at all exterior locations. Aluminum finishes – Class II, Clear Anodic Finish.
- b. Projecting Windows – Manufacturer’s standard thermal concealed window. Provide with locking hardware and screens with standard wicket. Provide series ZS 2750 by VistaWall/Oldcastle.
- c. Refer to section 08800 for all glazing.
- d. Project Location Wind loads – 22 psf.

Section 08800 – Glazing

- a. Low – E insulated glass units: Insulating glass units complying with ASTM E 773 and E 774; double pane with glass elastomer edge seal; inner and outer panes of 1/4 inch glass; total unit thickness of 1 inch minimum.
 1. Interspace Content: Argon.
 2. Outdoor Lite: Optigray 23 performance tinted float glass.
 - a. Kind FT fully tempered.
 3. Indoor Lite: Class 1 (clear) float glass (Solarban 60).
 - a. Kind FT fully tempered.
 4. Low-E Coating: Sputtered coated on third surface.
 5. Winter U-Value: 0.25.
 6. Solar Heat Gain Coefficient: 0.18.

Section 09250 – Gypsum Board Assemblies

- a. Gypsum Board and Related Products – Shall be provided by Domtar, U.S. Gypsum Co., Georgia Pacific Corp., National Gypsum Co. or equal.
- b. Gypsum Wallboard – ASTM C 36 type “X” for 5/8 inch thickness with tapered edges.
- c. Corner Bead – 1 1/4 inch x 1 1/4 inch galvanized steel external corner with 1/8 inch nose bead.

- d. Casing Bead – 30 gauge galvanized steel channel-type casing with 1/16 inch nose bead ground and knurled flange for joint compound finishing.
- e. Tear Away L-Bead – L shaped with tear off masking strip; exposed long leg receives joint compound; for use at windows.
- f. Control Joint – One piece control joint formed with V-shaped slot and removable strip covering slot opening.
- g. Joint Treatment Materials – Provide joint treatment material complying with ASTM C 475 and the recommendations of both the manufacturers of the sheet products and of joint treatment materials for each application indicated. Use paper reinforcing tape (fiberglass tape not permitted).

Section 09900 – Painting

- a. Gypsum Board – Semigloss, Acrylic Enamel Finish: 2 finish coats over a primer. Primer – Sherwin Williams PrepRite 200 latex primer B28W200 Series. Finish coats – Sherwin Williams ProMar 200 semigloss.
- b. Natural Finish Wood – Alkyd Based, Satin Varnish Finish: 2 finish coats of an alkyd based, clear satin varnish. Finish coats – Sherwin Williams Wood Classic Polyurethane A67 Series.
- c. Painted Finish Wood – Semigloss, Acrylic Enamel Finish: 2 finish coats over a wood undercoater. Undercoat – Sherwin Williams PrepRite Classic Primer B28W101 Series. Finish coats – Sherwin Williams ProMar 200 Semigloss.
- d. Ferrous Metal – Full Gloss, Alkyd Enamel Finish: 2 coats over and enamel primer. Primer – Sherwin Williams Kem Kromik Universal Primer B50WZ1 Series. Finish coats – Sherwin Williams Industrial Enamel VOC B54Z Series.

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