SECTION 08 52 00

WOOD WINDOWS

Display hidden notes to specifier. (Don't know how? [Click Here](http://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Reveal Windows & Doors by Pacific Architectural Millwork; Large Opening Sliding/Folding Wood and Glass Door products.  
.  
This section is based on the products of Reveal Windows & Doors by Pacific Architectural Millwork, which is located at:  
1435 W. Pioneer St.  
Brea, CA 92821  
Tel: 562-905-3200  
Fax: 562-694-6794  
Email: [request info (info@pacmillwork.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Reveal+Windows+%26+Doors+by+Pacific+Architectural+Millwork&coid=48629&rep=&fax=562-694-6794&message=RE:%20Spec%20Question%20(08550pam):%20%20&mf=)  
Web: [www.pacmillwork.com](http://www.pacmillwork.com) | [www.revealwd.com](http://www.revealwd.com)    
 [ [Click Here](http://www.arcat.com/arcatcos/cos48/arc48629.html) ] for additional information.  
Pacific Architectural Millwork is a premier millwork manufacturer with extensive experience fabricating and installing custom stile and rail doors, lift-and-slide doors, bi-fold doors, and windows for commercial and residential projects of all sizes and styles. The wide variety of work we have successfully completed has allowed us to develop the master craftsmanship and expertise to take on the most challenging custom designs.  
In addition to manufacturing custom wood window and door products, Pacific Architectural Millwork has been producing top-quality commercial millwork for more than two decades. Fully insured and bondable to over six million dollars per project, we have the resources to handle any job you bring to our attention. Whether it is a single entry door or a complete millwork package for a luxury resort, our team can meet your project requirements.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Clad Wood Windows.
    2. All Wood Windows
    3. Glazing and Accessories
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 04 22 00.16 - Surface-Bonded Concrete Unit Masonry.
    2. Section 05 40 00 - Cold-Formed Metal Framing.
    3. Section 06 10 00 - Rough Carpentry.
    4. Section 06 20 00 - Finish Carpentry.
    5. Section 07 21 26 - Blown Insulation.
    6. Section 07 46 33 - Plastic Siding.
    7. Section 07 62 00 - Sheet Metal Flashing and Trim.
    8. Section 07 90 00 - Joint Protection.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. AAMA/NWWDA 101/I.S.2-97 - Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors; 1997.
    2. AAMA CW-1 0 - Care and Handling of Architectural Aluminum from Shop to Site.
    3. AAMA 611-98 - Voluntary Specification for Anodized Architectural Aluminum.
    4. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels; 1998.
    5. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels; 1998.
    6. ANSI Z97.1 - Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
    7. FSC - Forest Stewardship Council Chain of Custody Certification.

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs for the sliding/folding door system to suit project requirements. Coordinate performance requirements with the manufacturer for the project location, wall size, and local building code requirements.

* 1. PERFORMANCE REQUIREMENTS
     1. System Design: Design and size components to withstand dead and live loads caused by pressure and suction of wind acting normal to plane of folding glass wall as calculated in accordance with applicable code.
     2. All products are FSC Chain of Custody Certified.
  2. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.
     3. Shop Drawings: Detailed drawings prepared specifically for the project by manufacturer. Show opening dimensions, framed opening tolerances, profiles, product components, anchorages, and accessories.
        1. Indicate material thickness, fastener locations, glazing and hardware arrangements.
        2. Include schedule identifying each unit, with marks or numbers referencing drawings.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples:
       1. Aluminum Finish: Two samples, minimum size 2 by 3 inches (50 by 75 mm), representing actual product and color.
       2. Glass: Two samples, minimum size 12 inches (300 mm) square, of specified glass, including coatings or frit pattern.
       3. Assembly Sample: 24 by 36 inch (600 by 900 mm) assembly complete with glazing, gaskets, fasteners, anchors, and finish; do not proceed with fabrication until workmanship and color are approved by Architect.
    3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
    4. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment and periodic cleaning and maintenance of all components.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this Section with minimum 5 years experience in fabrication and erection of glazed window wall systems for projects of similar scope.
     2. Installer Qualifications: Experienced in performing work of this section that has specialized in installation of work similar to that required for this project.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Store products in manufacturer's unopened packaging until ready for installation.
     2. Store products out of contact with the ground, under a weather tight covering, so as to prevent bending, warping, or other damage. Do not cover with unventilated tarps, polyethylene film, or similar coverings.
     3. Protect factory finishes from damage, precipitation and construction materials until ready for installation.
  2. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs to include the products specified and delete those that are not applicable..

* 1. WARRANTY
     1. Wood Components: Five years limited warranty on products with aluminum exteriors or exterior aluminum cladding.
     2. Exterior Wood Product: Three years limited warranty on exterior wood products.
     3. Kynar Aluminum Finish: Ten year limited warranty.
     4. Insulated Glass: Twenty year limited warranty for up to 60 square feet with mill-finish stainless steel spacer or mill or bronze-finish aluminum spacer. Custom glass or glass over 60 square feet will carry whatever warranty period is provided by the manufacturer.
     5. Hardware: Standard hardware 10 year limited warranty against material defects in materials and workmanship. Includes Lift and Slide hardware, M-Series window locks and window hinges, Slide & Seal hardware, and R-Series window hardware and 3-point locks. Other hardware or custom hardware will be covered in accordance with the manufacturer's standard warranty.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Reveal Windows & Doors by Pacific Architectural Millwork, which is located at: 1435 W. Pioneer St.; Brea, CA 92821; Tel: 562-905-3200; Fax: 562-694-6794; Email: [request info (info@pacmillwork.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Reveal+Windows+%26+Doors+by+Pacific+Architectural+Millwork&coid=48629&rep=&fax=562-694-6794&message=RE:%20Spec%20Question%20(08550pam):%20%20&mf=); Web: [www.pacmillwork.com](http://www.pacmillwork.com) | [www.revealwd.com](http://www.revealwd.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. WOOD WINDOWS - GENERAL
     1. Windows: Comply with AAMA/NWWDA 101/I.S.2-97; factory assembled and glazed, complete with weatherstripping, operating hardware and specified accessories.

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs as required for the project. The Drawings should include the opening configuration including size(s) and swing. Note that openings should be framed with the structural capability of the header such that the maximum deflection with the live load is limited to be L/720 of the span.

* 1. M SERIES WINDOWS

\*\* NOTE TO SPECIFIER \*\* Coordinate the window size with the performance requirements of the project. Contact the manufacturer for additional information.

* + 1. Fixed Windows: M-Series Fixed Window WA7000, Wood with Exterior Aluminum Cladding. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Fixed Window WA7000 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters
         1. Minimum Frame Height: 18 inches.
         2. Maximum Frame Height: 103 inches, dependent on height/width and glass size.
         3. Minimum Frame Width: 18 inches.
         4. Maximum Frame Width: 103 inches Dependent on Height/Width and Glass Size.
         5. Stile Width: 3 inches.
         6. Minimum Jamb Depth: 2-13/16 inches behind nail fin.
         7. Sash Thickness: 2-3/4 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Jamb extensions.
        3. Divided lites.
      1. Exterior aluminum finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Fixed Windows: M-Series Fixed W6400 All Wood. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Fixed Window W6400 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 16 inches.
         2. Maximum Frame Height: 144 inches, dependent on height/width and glass size.
         3. Minimum Frame Width: 16 inches.
         4. Maximum Frame Width: 144 inches, dependent on height/width and glass size.
         5. Maximum Glass Size: 60 SF.
         6. Stile Width: 3-3/4 inches
         7. Minimum Jamb Depth: 3-5/8 inches behind nail fin.
         8. Sash Thickness: 2-1/2 inches
         9. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Exterior: Traditional.

Interior: Traditional .

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inch overall thickness clear Low-E insulated glass.
        2. 1 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed blackout shades.
        2. Divided lites.
      1. Exterior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Crank-Out Casement Windows: M-Series Crank-Out Casement WA7000, Wood with Exterior Aluminum Cladding. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters
          1. Minimum Frame Height: 18 inches.
          2. Maximum Frame Height: \_\_\_\_\_\_\_\_.
          3. Minimum Frame Width: 16 inches.
          4. Maximum Frame Width: 32 inches, dependent on height/width and glass size.
          5. Stile Width: 3 inches.
          6. Minimum Jamb Depth: 5-5/16 inches from back of nail fin.
          7. Sash Thickness: 2-3/4 inches.
          8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Fixed exterior screen.
        2. Concealed roll screens.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. Contour Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Painted Dark Bronze.

White.

Oil Rubbed Bronze.

Satin Nickel.

* + - * 1. Custom hardware.
      1. Exterior aluminum finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Push-Out Casement Windows: M-Series Push-Out Casement WA7000, Wood with Exterior Aluminum Cladding. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Push-Out Casement Window WA7000 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 20 inches.
         2. Maximum Frame Height: 78-1/4 inches.
         3. Minimum Frame Width: 16 inches.
         4. Maximum Frame Width: 36 inches, dependent on height/width and glass size.
         5. Stile Width: 3 inches.
         6. Minimum Jamb Depth: 2-13/16 inches from back of nail fin or 5-5/16 inches with optional roll screen.
         7. Sash Thickness: 2-3/4 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Jamb extensions.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle.

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle.

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior aluminum finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Push-Out Casement Windows: M-Series Push-Out Casement W6400 All-Wood. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Fixed Window WA6400 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 24-1/2 inches.
         2. Maximum Frame Height: 78 inches.
         3. Minimum Frame Width: 16-1/16 inches.
         4. Maximum Frame Width: 36 inches, dependent on height/width and glass size.
         5. Min. Stile Width: 3-7/8 inches.
         6. Minimum Jamb Depth: 3-5/8 inches from back of nail fin or 5-5/16 inches with optional roll screen.
         7. Sash Thickness: 2-1/2 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Exterior: Traditional.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inch overall thickness clear Low-E insulated glass.
        2. 1 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom,
      1. Other Options

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Custom hardware.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. French Casement Windows: M-Series French Casement WA7000, Wood with Exterior Aluminum Cladding. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series French Casement Window WA7000 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 24-1/2 inches.
         2. Maximum Frame Height: 78 inches.
         3. Minimum Frame Width: 29-1/4 inches.
         4. Maximum Frame Width: 70 inches, dependent on height/width and glass size.
         5. Stile Width: 3 inches.
         6. Minimum Jamb Depth: 2-13/16 inches from back of nail fin.
         7. Sash Thickness: 2-3/4 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Jamb extensions.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior aluminum finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. French Casement Windows: M-Series French Casement W7000, All-Wood. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Fixed Window W7000 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 24-1/2 inches.
         2. Maximum Frame Height: 78 inches.
         3. Minimum Frame Width: 29-1/4 inches.
         4. Maximum Frame Width: 70 inches, dependent on height/width and glass size.
         5. Min. Stile Width: 3-7/8 inches.
         6. Minimum Jamb Depth: 2-13/16 inches from back of nail fin.
         7. Sash Thickness: 2-1/2 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Exterior: Traditional.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inch overall thickness clear Low-E insulated glass.
        2. 1-1/8 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Custom hardware.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. French Casement Windows: M-Series French Casement W6400, All-Wood. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Fixed Window W6400 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 24-1/2 inches.
         2. Maximum Frame Height: 78 inches.
         3. Minimum Frame Width: 29-1/4 inches.
         4. Maximum Frame Width: 70 inches, dependent on height/width and glass size.
         5. Min. Stile Width: 3-7/8 inches.
         6. Minimum Jamb Depth: 2-5/8 inches from back of nail fin.
         7. Sash Thickness: 2-1/2 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Exterior: Traditional.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inch overall thickness clear Low-E insulated glass.
        2. 1 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom,
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Custom hardware.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Casement Windows: M-Series Tradewinds Casement WA7000, Wood with Exterior Aluminum Cladding. Hinged from the same side with stainless steel friction hinges and concealed multi-point locks. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Tradewinds Casement Window WA7000 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 24-1/2 inches.
         2. Maximum Frame Height: 78 inches.
         3. Minimum Frame Width: 29-1/4, dependent on number of panels.
         4. Maximum Frame Width: 70 inches, dependent on number of panels.
         5. Stile Width: 3 inches.
         6. Minimum Jamb Depth: 2-13/16 inches, from back of nail fin no screen.
         7. Sash Thickness: 2-3/4 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Jamb extensions.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior aluminum finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Casement Windows: M-Series Tradewinds Casement W6400, All-Wood. Hinged from the same side with stainless steel friction hinges and concealed multi-point locks. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Fixed Window W6400 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 24-1/2 inches.
         2. Maximum Frame Height: 78 inches.
         3. Minimum Frame Width: 29-1/4 inches.
         4. Maximum Frame Width: 70 inches, dependent on height/width and glass size.
         5. Min. Stile Width: 3 inches.
         6. Minimum Jamb Depth: 2-13/16 inches from back of nail fin.
         7. Sash Thickness: 2-3/4 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inch overall thickness clear Low-E insulated glass.
        2. 1 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Custom hardware.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Crank-Out Awning Windows: M-Series Crank-Out Awning WA7000, Wood with Exterior Aluminum Cladding. Hinged at the top and opens outward by rotating a handle located on the lower frame. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Crank-Out Awning Window WA7000 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 18 inches.
         2. Maximum Frame Height: 36 inches.
         3. Minimum Frame Width: 18 inches.
         4. Maximum Frame Width: 78-1/4 inches, dependent on height/width and glass size.
         5. Stile Width: 3 inches.
         6. Minimum Jamb Depth: 5-5/16 inches from back of nail fin.
         7. Sash Thickness: 2-3/4 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products:

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Fixed exterior screen.
        2. Jamb extensions.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. Contour Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Painted Dark Bronze.

White.

Oil Rubbed Bronze.

Satin Nickel.

* + - * 1. Custom hardware.
      1. Exterior aluminum finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Crank-Out Awning Windows: M-Series Crank-Out Awning W6400, All-Wood. Hinged at the top and opens outward by rotating a handle located on the lower frame. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Crank-Out Awning Window WA6400 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 16-1/16 inches.
         2. Maximum Frame Height: 90-11/16 inches.
         3. Minimum Frame Width: 24-1/2 inches.
         4. Maximum Frame Width: 98-1/4 inches, dependent on height/width and glass size.
         5. Min. Stile Width: 3-7/8 inches.
         6. Minimum Jamb Depth: 3-5/8 inches, from back of nail fin or 5-5/16 inches with optional roll screen.
         7. Sash Thickness: 2-1/2 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Exterior: Traditional.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inch overall thickness clear Low-E insulated glass.
        2. 1 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Custom hardware.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Stacked Awning Windows: M-Series Stacked Awning WA7000, Wood with Exterior Aluminum Cladding. Stainless steel friction hinges with multiple awning windows stacked on top of each other within a single frame with each sash in the Stacked Awning operated independently from the bottom with a smooth push-out motion. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Crank-Out Awning Window WA7000 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Sash Height: 13-13/16 inches.
         2. Maximum Sash Height: 88-1/2 inches dependent on height/width and glass size.
         3. Minimum Frame Width: 20 inches.
         4. Maximum Frame Width: 98-1/4 inches, dependent on height/width and glass size.
         5. Stile Width: 3 inches.
         6. Minimum Jamb Depth: 2 13/16 inches from back of nail fin.
         7. Sash Thickness: 2-3/4 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Jamb extensions.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - * 1. Custom hardware.
      1. Exterior aluminum finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Stacked Awning Windows: M-Series Stacked Awning W6400, All-Wood. Stainless steel friction hinges with multiple awning windows stacked on top of each other within a single frame with each sash in the Stacked Awning operated independently from the bottom with a smooth push-out motion. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:

\*\* NOTE TO SPECIFIER \*\* M-Series Crank-Out Awning Window W6400 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - 1. Product Parameters:
         1. Minimum Frame Height: 13-13/16 inches.
         2. Maximum Frame Height: 88-1/2 inches.
         3. Minimum Frame Width: 24-1/2 inches.
         4. Maximum Frame Width: 98-1/4 inches, dependent on height/width and glass size.
         5. Min. Stile Width: 3-7/16 inches.
         6. Minimum Jamb Depth: 3-5/8 inches, from back of nail fin or 5-5/16 inches with optional roll screen.
         7. Sash Thickness: 2-1/2 inches.
         8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Exterior: Traditional.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inch overall thickness clear Low-E insulated glass.
        2. 1 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom,
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Custom hardware.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* 1. ZERO INTERIOR SIGHTLINE WOOD WINDOWS

\*\* NOTE TO SPECIFIER \*\* Coordinate the size with the performance requirements of the project. Contact the manufacturer for additional information.

* + 1. Fixed Windows: Z-Series Fixed Window WA9600 Wood with Exterior Aluminum Cladding. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:
          1. Minimum Frame Height: 18 inches.
          2. Maximum Frame Height: 103 inches, dependent on height/width and glass size.
          3. Minimum Frame Width: 18 inches.
          4. Maximum Frame Width: 103 inches Dependent on Height/Width and Glass Size.
          5. Stile Width: 3 inches.
          6. Minimum Jamb Depth: 3-3/4 inches behind nail fin.
          7. Sash Thickness: 3-13/16 inches.
          8. Edge Detail:

Exterior: Contemporary.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Jamb extensions.
        3. Divided lites.
      1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Casement Windows: Z-Series Casement Window WA9600 Wood with Exterior Aluminum Cladding. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:

\*\* NOTE TO SPECIFIER \*\* Z-Series Casement Windows WA9600 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - * 1. Minimum Frame Height: 20 inches.
        2. Maximum Frame Height: 78-1/4 inches.
        3. Minimum Frame Width: 16 inches.
        4. Maximum Frame Width: 16 inches.
        5. Stile Width: 2-3/4 inches.
        6. Minimum Jamb Depth: 3-3/4 inches from back of nail fin, 6-1/4 inches with optional roll screen.
        7. Sash Thickness: 3-13/16 inches.
        8. Edge Detail:

Exterior: Contemporary.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Jamb extensions.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.
         1. Bronze Pop-Up Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Satin Nickel.

Brushed Chrome.

Polished Chrome.

Bright Brass.

White.

* + - * 1. Custom hardware.
      1. Exterior aluminum finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Awning Windows: Z-Series Awning Window WA9600 Wood with Exterior Aluminum Cladding. Hinged at the top and opens outward by rotating a handle located on the lower frame. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:

\*\* NOTE TO SPECIFIER \*\* Z-Series Casement Windows WA9600 can be mulled to a variety of other Pacific products for consistency of sightlines and design. Contact the manufacturer for additional information.

* + - * 1. Minimum Frame Height: 15-7/16 inches.
        2. Maximum Frame Height: 90-7/8 inches.
        3. Minimum Frame Width: 24-1/2 inches.
        4. Stile Width: 2-3/4 inches.
        5. Minimum Jamb Depth: 3-3/4 inches from back of nailing fin and 6-1/4 inches with optional roll screen.
        6. Sash Thickness: 3-13/16 inches.
        7. Edge Detail:

Exterior: Contemporary.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Concealed roll screens.
        2. Jamb extensions.
        3. Egress hinges.
        4. Divided lites.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.
         1. Bronze Pop-Up Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Satin Nickel.

Brushed Chrome.

Polished Chrome.

Bright Brass.

White.

* + - * 1. Custom hardware.
      1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* 1. TILT AND TURN WOOD WINDOWS

\*\* NOTE TO SPECIFIER \*\* Coordinate the size with the performance requirements of the project. Contact the manufacturer for additional information.

* + 1. Tilt and Turn Casement Windows: Tilt and Turn Casement WA6400, Wood with Exterior Aluminum Cladding. Opens to the interior when the handle is rotated 90 degrees, or tilts in slightly when the handle is rotated 180 degrees. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:
          1. Minimum Frame Height: 16-3/8 inches. Based on width.
          2. Maximum Frame Height: 97-13/16 inches.
          3. Minimum Frame Width: 16-3/8 inches.
          4. Maximum Frame Width: 58-3/8 inches.
          5. Stile Width: 3 inches.
          6. Minimum Jamb Depth: 2-13/16 inches.
          7. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Traditional.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inches overall thickness clear Low-E insulated glass.
        2. 1 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Custom grille patterns.
        2. Fixed exterior screen.
        3. Brick exterior molding.
        4. Stucco exterior molding.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Tilt and Turn Casement Windows: Tilt and Turn Casement All Wood WA6400. Opens to the interior when the handle is rotated 90 degrees, or tilts in slightly when the handle is rotated 180 degrees. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:
          1. Minimum Frame Height: 16-3/8 inches. based on width.
          2. Maximum Frame Height: 97-13/16 inches.
          3. Minimum Frame Width: 16-3/8 inches.
          4. Maximum Frame Width: 58-3/8 inches.
          5. Stile Width: 3 inches.
          6. Minimum Jamb Depth: 2-13/16 inches.
          7. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Traditional.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inches overall thickness clear Low-E insulated glass.
        2. 1 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Custom grille patterns.
        2. Fixed exterior screen.
        3. Brick exterior molding.
        4. Stucco exterior molding.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. French Tilt and Turn Casement Windows: French Tilt and Turn Casement WA6400, Wood with Exterior Aluminum Cladding. Opens to the interior when the handle is rotated 90 degrees, or tilts in slightly when the handle is rotated 180 degrees. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:
          1. Minimum Frame Height: 16-3/8 inches, based on width.
          2. Maximum Frame Height: 97-13/16 inches.
          3. Minimum Frame Width: 16-3/8 inches.
          4. Maximum Frame Width: 58-3/8 inches.
          5. Stile Width: 3 inches.
          6. Minimum Jamb Depth: 2-13/16 inches.
          7. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Traditional.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inch overall thickness clear Low-E insulated glass.
        2. 1 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Custom grille patterns.
        2. Fixed exterior screen.
        3. Brick exterior molding.
        4. Stucco exterior molding.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. French Tilt and Turn Casement Windows: French Tilt and Turn Casement All Wood WA6400. Opens to the interior when the handle is rotated 90 degrees, or tilts in slightly when the handle is rotated 180 degrees. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:
          1. Minimum Frame Height: 19 inches. Based on width.
          2. Maximum Frame Height: 92 inches.
          3. Minimum Frame Width: 24 inches.
          4. Maximum Frame Width: 116 inches.
          5. Stile Width: 3 inches.
          6. Minimum Jamb Depth: 2-13/16 inches.
          7. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Traditional.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inches overall thickness clear Low-E insulated glass.
        2. 1 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Custom grille patterns.
        2. Fixed exterior screen.
        3. Brick exterior molding.
        4. Stucco exterior molding.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Tilt Only Casement Windows: Tilt Only Casement WA8400, Wood with Exterior Aluminum Cladding. Tilts in slightly when the handle is rotated 180 degrees. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:
          1. Minimum Frame Height: 16-3/8 inches. Based on width.
          2. Maximum Frame Height: 97-13/16 inches.
          3. Minimum Frame Width: 16-3/8 inches.
          4. Maximum Frame Width: 58-3/8 inches.
          5. Stile Width: 3 inches.
          6. Minimum Jamb Depth: 2-13/16 inches.
          7. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Traditional.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1 inch overall thickness clear Low-E insulated glass.
        2. 1 inch overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Custom grille patterns.
        2. Fixed exterior screen.
        3. Brick exterior molding.
        4. Stucco exterior molding.
      1. Hardware: Includes stainless steel friction hinges and concealed multi-point locks.

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required. Contact the manufacturer for additional information on custom hardware.

* + - * 1. London Aluminum Handle:

\*\* NOTE TO SPECIFIER \*\* Select the finish required and delete those not required.

Silver.

Grey Brown.

Traffic White.

* + - * 1. Verona Bronze Handle:

Polished Brass.

Antique Brass.

Brushed Chrome.

Polished Chrome.

Oil-Rubbed Brass.

Pure White.

Matte Black.

Satin Nickel.

Antique Nickel.

* + - 1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* 1. DIRECT SET WINDOWS

\*\* NOTE TO SPECIFIER \*\* Coordinate the size with the performance requirements of the project. Contact the manufacturer for additional information.

* + 1. Direct Set Windows: Direct Set Window WA4400, Wood with Exterior Aluminum Cladding. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:
          1. Minimum Frame Height: 12 inches based on height.
          2. Maximum Frame Height: 144 inches, dependent on height/width and glass size.
          3. Minimum Frame Width: 12 inches.
          4. Maximum Frame Width: 144 inches, dependent on height/width and glass size.
          5. Total SF: 60 SF of glass.
          6. Frame Sightline 1-3/4 inches.
          7. Minimum Jamb Depth: 2-13/16 inches behind nail fin.
          8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Simulated divided lites.
        2. Corner.
      1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + 1. Direct Set Windows: Direct Set Window WA3500, All Wood. Provide to fit the openings and configurations indicated on the Drawings. Provide complete with head, sill and jambs, glazing, weatherstripping, operating hardware and specified accessories:
       1. Product Parameters:
          1. Minimum Frame Height: 12 inches based on height.
          2. Maximum Frame Height: 144 inches, dependent on height/width and glass size.
          3. Minimum Frame Width: 12 inches.
          4. Maximum Frame Width: 144 inches, dependent on height/width and glass size.
          5. Total SF: 60 SF of glass.
          6. Frame Sightline 1-3/4 inches.
          7. Minimum Jamb Depth: 4-9/16 inches behind nail fin.
          8. Edge Detail:

\*\* NOTE TO SPECIFIER \*\* Select the edge detail required and delete the one not required. Note that adding Contemporary or Traditional grids to the window will require Contemporary edge detail.

Exterior: Contemporary.

Interior: Traditional.

Interior: Contemporary.

* + - 1. Exterior: Extruded aluminum cladding.
      2. Wood Species: FSC Certified products.

\*\* NOTE TO SPECIFIER \*\* Select the species required. Consult with the manufacturer for custom species available.

* + - * 1. Pine.
        2. Vertical Grain Douglas Fir.
        3. African Mahogany.
        4. Custom.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select the glazing required. Custom glazing and tinted glass are available. Consult with the manufacturer for custom glazing available.

* + - * 1. 1-1/8 inches overall thickness clear Low-E insulated glass.
        2. 1-1/8 inches overall thickness tempered Solarban Low-E insulated glass.
        3. Custom.
      1. Other Options:

\*\* NOTE TO SPECIFIER \*\* Select the options required and delete those not required.

* + - * 1. Simulated divided lites.
        2. Corner.
      1. Exterior Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Primed finish is standard. Delete the paragraphs not required.

* + - * 1. Fluoropolymer-modified acrylic topcoat over fluoropolymer primer meets AAMA 2605 requirements.
        2. Colors:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

* + - * 1. Anodized Clad -Exterior anodized aluminum finish: Electrolytic two-step coloring method meets or exceeds AAMA 611 Class I requirements. Finishes:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraphs not required.

Light bronze.

Medium bronze.

Dark bronze.

Extra dark bronze.

Black.

* + - 1. Interior Finish:
         1. Clear treated wood, no prime.
         2. Primed.
         3. Prefinished with low gloss, two-component acrylic polyurethane:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs. Delete the paragraph not required.

Standard color as selected by the Architect.

Custom color as selected by the Architect.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.

\*\* NOTE TO SPECIFIER \*\* Verify that structural capability of the header such that the maximum deflection with the live load is less than 1/8 inch (3 mm) over the full length of the opening.

* + 1. Verify openings are ready to receive work and dimensions and clearances are as indicated on the approved shop drawings.
    2. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
  1. PREPARATION
     1. Clean surfaces thoroughly prior to installation.
     2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
  2. INSTALLATION
     1. Install in accordance with manufacturer's instructions.
     2. Install system in accordance with approved shop drawings and manufacturer's instructions.
     3. Install components level, plumb and true to line with uniform joints. Do not use defective parts that are warped, twisted, bowed, dented or abraded.
     4. Separate dissimilar materials using nonconductive tape, paint, or other material not visible in finished work.
     5. Provide attachments and shims to permanently fasten system to building structure.
     6. Maintain dimensional tolerances and alignment with adjacent Work.
     7. Anchor securely in place, allowing for required movement, including expansion and contraction.
     8. Fill perimeter frame to wall opening cavity with batt insulation. Do not use expansive foam insulation.
     9. Install glazing and sealants in accordance with manufacturer's instructions without exception, including surface preparations.
     10. Install flashings, closures, corners, and other accessories as required or detailed.
     11. Clean surfaces and install sealant in accordance with sealant manufacturer's instructions and structure manufacturer's guidelines.
  3. ADJUSTING AND CLEANING
     1. Adjust operating sash and hardware to provide tight fit at contact points and at the weather stripping for smooth operation.
     2. Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions before owner's acceptance.
     3. Clean and maintain aluminum surfaces in accordance with AAMA 610.1.
     4. Remove from project site and legally dispose of construction debris associated with this work.
  4. PROTECTION
     1. Protect installed products until completion of project.
     2. Touch-up, repair or replace damaged products before Substantial Completion.
  5. SCHEDULES

\*\* NOTE TO SPECIFIER \*\* Retain Paragraph below if required to suit project requirements. Identify products by name on the Drawings or use this paragraph to define the location of each type of material to be used. The following are some examples of schedule references. Edit as required to suit project or delete and identify products on the Drawings.

* + 1. :
    2. :

END OF SECTION