

BOARD OF PUBLIC WORKS AND SAFETY
Agenda Request Form

(Form B-01-2012)

Organizations and individuals are asked to submit a request form and supporting documents to be placed on the agenda. You will be contacted by the City confirming the date of the meeting in which your request will be heard.

Please make sure that your contact information is accurate in case we need to get in touch with you. The Board of Works meets on the 1st and 3rd Monday of each month at 5:00 p.m. in City Hall located at 70 E. Monroe Street.

Date Submitted:	11-1-2012	Requested Meeting Date:	11-5-2012
		Confirmed Meeting Date:	11-5-2012
Received by:			
Contact Information: Please provide all requested information in the fields below. (Print or Type)			
On Behalf of Organization or Individual:		City of Franklin- Mayor's Office	
Name:	Matt Zimmerman	Telephone:	317-736-3602
Title or Position:	Director of Operation		
E-Mail:	mzimmerman@Franklin.IN.gov		
Address:	70 E. Monroe Street		
City:	Franklin	State:	IN
		ZIP:	46131
Who will attend the meeting and present the request?			
Name:	Lynn Gray	Telephone:	317-736-3602
Title or Position:	City Attorney		
E-Mail:	mzimmerman@Franklin.IN.gov		
Please describe the purpose or title of your presentation.			
Bid opening for City Hall's windows project. A project scope document was sent out to respective bidders.			
Supporting documents: All supporting documents should be submitted with the request form.			
1. Project Scope Document			
2.			
3.			
4.			

Project Scope

City of Franklin Indiana

City Hall Structure

Replacement of all windows in structure including round top transoms on west facing facade

Total units 59

Aluminum clad/wood replacement style windows

Interior side stain to match existing and 2 coats of laquer (satin finish)

Exterior Black powder coat finish

Bid with 2 options

- 1) Solid glass 1 over 1 style design
- 2) Verticle center muntin bar to replicate original building design or 2 over 2 lite pattern

SECTION 08551: ALUMINUM CLAD WOOD WINDOWS

PART 1 – GENERAL

1.01 WORK INCLUDED

- A. Furnish all labor, materials, equipment and services necessary or incidental to the completion of all factory- assembled aluminum clad wood windows, glass and glazing and exterior muntin bars and related accessories, anchorages, and attachments and shims in accordance with the Contract Documents.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Division 0: Bidding and contract requirements, including the General Conditions of the Contract.
- B. Division 1: General Requirements
- C. Section 06105: Light wood framing
- D. Section 06400: Finish Carpentry and Millwork
- E. Section 07600: Flashing and Sheet Metal
- F. Section 07900: Joint Sealants
- G. Section 09251: Gypsum Wallboard on wood framing
- H. Section 09900: Painting and Finishing

1.03 SITE INSPECTION

- A. This Contractor shall visit the site and become thoroughly familiar with all existing conditions. Refer to Division 0 and 1 for site examination requirements and procedures.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in sealed packages with Underwriters Laboratories, Inc. labels.
- B. Store materials on raised platforms and product with coverings at outdoor locations.

1.05 QUALITY ASSURANCE

- A. Provide labeled materials, which have been tested and listed as Type A by U.L. for class and rating indicated for each product required.
- B. Provide proof of compliance with AAMA/WDMA/CSA 101/1.S.2/A440-08, ASTM 2190-08 rating for Seal Durability of Insulating Glass Units.
- C. Installer: Company specializing in window work of comparable scope a minimum of four (4) years experience.
- D. Maintain one (1) copy of manufacturers application instructions on the site.

1.06 SUBMITTALS

- A. Submit specifications, installation instructions, and requirements of the manufacturer.
- B. Deliver materials to the project site in manufacturer's or distributor's packaging undamaged, complete with installation instructions, when /or if directed by General Contractor.

- C. Store off ground and protect from weather while on site.

1.07 REFERENCE STANDARDS

- A. National Wood Window and Door Association (WDMA):
 - 1. WDMA I.S. -2- Industry Standard for Wood Windows.
 - 2. WDMA I.S. -4- Industry Standard for Water-Repellent Preservative Treatment for Millwork.
- B. American Architectural Manufacturer's Association (AAMA):
 - 1. AAMA 2604.2 – Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels.
- C. Indiana Building Code 2006 IBC with current amendments.

1.08 PERFORMANCE REQUIREMENTS

- A. Window units shall meet Rating H-R30 specifications in accordance with AAMA/WDMA/CSA101/I.S.2/A440-05, except where more stringent requirements are specified. (Optional rating: H-R45, H-R50)
- B. Window unit air leakage, when tested in accordance with ASTM E 283, shall be 0.30 cfm/sq.ft of frame or less.
- C. No water penetration beyond the interior face of the window when tested in accordance with ASTM E 547 under static pressure of 4.5 psf (42mph) after 4 cycles of 5 minutes each separated by 1 minute with pressure released, with water being applied continuously, at a rate of 5 gallons per hour, per square foot. (Optional Pressure of 7.5 psf (54 mph) for more stringent requirements)
- D. Window units shall withstand positive and negative pressures of 45.0 psf (133 mph) acting normal to the plane of the window. Units shall have no permanent deformation in excess of 1/175 of its span when tested in accordance with ASTM E 330. (Optional Pressure of up to 75 psf (172 mph) for more stringent requirements)
- E. Window shall comply with Forced Entry Resistance requirements for a level 10, when tested in accordance with ASTM F 588.
- F. Window units shall be rated, certified, and labeled in accordance with NFRC 100-2004. U-Factors: 0.30 Climaguard 6331 glass (Specific glazing options and values may be obtained from the product data sheet on the web)
- G. Window units shall be rated, certified, and labeled in accordance with NFRC 200-2004. Solar Heat Gain Coefficient: 0.24 Climaguard 6331 glass (Specific glazing options and values may be obtained from the product data sheet on the web)
- H. All window units shall be designed to meet IBC 2006 with Indiana Amendment for wind loading requirement.

PART 2 – PRODUCTS

2.01 WINDOW TYPES

- A. Double Hung units, factory assembled extruded aluminum clad wood window with sash installed in frame.
- B. The basis for this specification is "Sun Window" series. Other listed manufacturers shall provide equal products with all required features.

2.02 APPROVED MANUFACTURERS

- A. SunClad USA, Owensboro, KY
- B. Pella Corp. of Pella, Iowa
- C. Marvin Windows Co., Warroad Minnesota
- D. Equal as approved under the provisions of Section 01630

2.03 MATERIALS

- A. Frame: Select softwood (kiln dried Western Pine), water repellent, preservative treated in accordance with WDMA I.S.-4. Interior exposed surfaces clear pine; exterior surfaces clad with aluminum. Components assembled with screws and concealed corner locks.
- B. Glazing: Quality 1 float glass complying with ASTM C 1036. 5/8" Clear argon filled, multi-layer low E coated dual-seal insulating glass, wet-glazed, with removable exterior aluminum removable stops.

2.04 COMPONENTS

- A. Frame: Select kiln dried Western Pine, water-repellent preservative treated in accordance with WDMA I.S. 4. Interior exposed surfaces clear Western Pine; all exterior surfaces clad with 0.050" extruded aluminum at head, jamb, and sill and incorporate an integral aluminum nail fin as part of the extrusion. Overall frame depth: 6" (153 mm) for a wall depth of 4-9/16" (116 mm). Optional factory applied jamb extensions available up to 7-9/16" wall depths. Jambliner shall be high impact, exterior weathering grade polyvinyl chloride with locking church balance shoes.
- B. Sash: Select kiln dried Western Pine, water-repellent, preservative-treated in accordance with WDMA I.S.4. Interior exposed surfaces clear Western Pine; all exterior surfaces clad with 0.045" extruded aluminum, mitred. Wood corners lap-jointed, glued and secured with metal fasteners. Sash thickness: 1-3/8" (35 mm). Glass shall be set to the sash frame using an AAMA approved silicone glazing material and secured with interior profiled wood stops.
- C. Glazing System: Sealed insulating glass shall be produced using quality float glass complying with ASTM C-1036-06. [clear/clear.]. [clear/argon filled, Low E II coated]. Various tints, Obscure, tempered, and laminated options are also available. Dual sealed insulating glass will have a 1/2" air space with the Duralite "Warm Edge" spacer or

approved equivalent. Insulated glass meets or exceeds standards required by ASTM E 2190-08.

- D. Weatherstripping: Rigid dual wall parting stop with flexible hinge at head and custom dual durometer bulb at sill; Polyvinyl chloride leaf style with flexible urethane hinge set into upper sash for tight contact at checkrail. Secondary dual durometer, foam weatherstripping at bottom sash at sill. Secondary fin-seal weatherstrip at head. PVC jambliner at sides of sash with fin-seal pad at checkrail. Weatherstrip meets or exceeds standards required by AAMA 702-04.
- E. Insect Screen: [Full] [Half] size with charcoal vinyl-coated mesh fiberglass screen cloth, set in 0.020" roll form aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
- F. Extruded Insect Screen: [Full] [Half] size with charcoal vinyl-coated fiberglass screen cloth, set in 0.050" extruded aluminum frame fitted to inside of window, supplied complete with all necessary hardware.

2.05 WINDOW HARDWARE

- A. Operator: Steel worm gear operator with hardened gears. Operator base to be zinc die cast with painted finish. Operator linkage hinge slide, and hinge arms to be 300 series stainless steel. Exposed fasteners to be stainless steel. Hardware shall exceed 1000 hours salt spray exposure per ASTM B117. Finish of integrated crank shall be as selected by the Architect from the manufacturer's standard colors.
- B. Single handle locking system shall operate positive acting arms that reach out and pull the sash into a locked position: one installed on sash 29" and smaller in height, two unison operating locks on sash over 29" frame height. Locks must meet or exceed requirements by AAMA 1302.5. Lock handle finish shall be as selected by Architect from manufacturer's standard colors.

2.06 FINISH

- A. Exterior Finish System: Exterior extruded aluminum surfaces shall be finished with the following multi-stage or similar, approved system:
 - 1. Clean and etch aluminum surface of oxides.
 - 2. Pretreat with chrome phosphate conversion coating.
 - 3. Pretreat with chromic acid sealer/rinse.
 - 4. Prime with a baked on modified polyester primer.
 - 5. Top with baked-on powder coat enamel. Color shall be **Black Powder Coat** finish.
- B. Exterior aluminum finishes shall meet or exceed the following performance requirements of AAMA 2604.2.
 - 1. F minimum.
 - 2. Film Adhesion: 1/16" crosshatch, dry, wet, boiling water.
 - 3. Impact resistance: 1/10" distortion, no film removal.
 - 4. Abrasion resistance: Falling sand coefficient value of 20 minimum.
 - 5. Chemical resistance: 10% Muriatic acid, 15 minutes. Mortar pat test, 24 hours.

- 6. Detergent resistance: 3% at 100 degrees, 72 hours.
- 7. Corrosion resistance: Humidity, 3000 hours. Salt spray exceeds 3000 hours.
- C. Interior finish: Two coats lacquer, site applied under Section 0900.

PART 3 – EXECUTION

1.01. INSTALLATION

- A. All units to be carefully installed in accordance with the manufacturer's instructions, recommendations and approved shop drawings to achieve weathertight installation. Sill and head shall be level, jambs and plumb and blocked. Verify squareness of unit before final anchoring in wall. Check installation of unit before application of interior trim.
- B. Maintain alignment with adjacent work. Secure assembly to framed openings , plumb and square, without distortion.
- C. Place insulation in shim space around perimeter.

1.02 SEALANT

- A. The perimeter joint between the unit frame and adjacent construction shall be finished with sealant as specified in Section 07900.

1.03 PROTECTION

- A. Protect all units from damage after installation until the completion of the project.
- B. Clean frames and glass at substantial completion.

1.04 WARRANTY

- A. Submit manufacturer's standard twenty year warranty on glazing, ten (10) year warranty on window with two (2) year parts and labor at substantial completion.

END OF SECTION