



CERTIFICATE OF APPROPRIATENESS APPLICATION FORM
Incomplete applications will not be processed for Commission review.
Please print legibly.

1. HISTORIC NAME OF PROPERTY OR HISTORIC DISTRICT: (if known)

1.
ADDRESS OF PROPERTY:

2912 E. BELLVIEW PL.

2. NAME AND ADDRESS OF OWNER:

Name(s): SAM AND MARY JO RADCLIFFE

Address: 2912 E. BELLVIEW PLACE

City: MILWAUKEE State: WI ZIP: 53211

Email:

Telephone number (area code & number) Daytime: 414-964-8325 Evening: SAME

3. APPLICANT, AGENT OR CONTRACTOR: (if different from owner)

Name(s): ALLEN CONSTRUCTION SERVICES dba ALLEN KITCHEN + BATH

Address: 310 S. INDUSTRIAL PARK RD.

City: DEERFIELD State: WI ZIP Code: 53531

Email: allen@allenkit.com

Telephone number (area code & number) Daytime: (608) 712-4011 Evening: SAME

4. ATTACHMENTS: (Because projects can vary in size and scope, please call the HPC Office at 414-286-5712 for submittal requirements)

A. REQUIRED FOR MAJOR PROJECTS:

Photographs of affected areas & all sides of the building (annotated photos recommended)

Sketches and Elevation Drawings (1 full size and 1 reduced to 11" x 17" or 8 1/2" x 11")
A digital copy of the photos and drawings is also requested.

Material and Design Specifications (see next page)

B. NEW CONSTRUCTION ALSO REQUIRES:

Floor Plans (1 full size and 1 reduced to a maximum of 11" x 17")

Site Plan showing location of project and adjoining structures and fences

PLEASE NOTE: YOUR APPLICATION CANNOT BE PROCESSED UNLESS BOTH PAGES OF THIS FORM ARE PROPERLY COMPLETED AND SIGNED.

5. DESCRIPTION OF PROJECT:

Tell us what you want to do. Describe all proposed work including materials, design, and dimensions. Additional pages may be attached.

KITCHEN RENOVATION TO INCLUDE REPLACING TRIPLE KITCHEN WINDOW TO RESTORE ORIGINAL HEIGHT, REPLACE UPPER WINDOW WITH SINGLE PANE AS ORIGINALLY DESIGNED. ALSO REPLACING REAR ENTRY DOOR AND STORM.

WINDOWS TO BE MARVIN ALL WOOD CONSTRUCTION PRIMED & PAINTED EXTERIOR, PAINTED INTERIOR & FEATURE LEAD TAPE MULLIONS.

REAR DOOR TO BE WOOD CONSTRUCTION, PAINTED WITH 3/4 GLASS, LOWER RAISED PANEL. LEAD TAPE MULLIONS APPLIED BOTH SIDES.

6. SIGNATURE OF APPLICANT:

Laree Allen
Signature

LAREE ALLEN
Please print or type name

7/1/2013
Date

This form and all supporting documentation **MUST** arrive by 12:00 noon on the deadline date established to be considered at the next Historic Preservation Commission Meeting. Any information not provided to staff in advance of the meeting will not be considered by the Commission during their deliberation. Please call if you have any questions and staff will assist you.

Hand Deliver or Mail Form to:
Historic Preservation Commission
City Clerk's Office
200 E. Wells St. Room B-4
Milwaukee, WI 53202

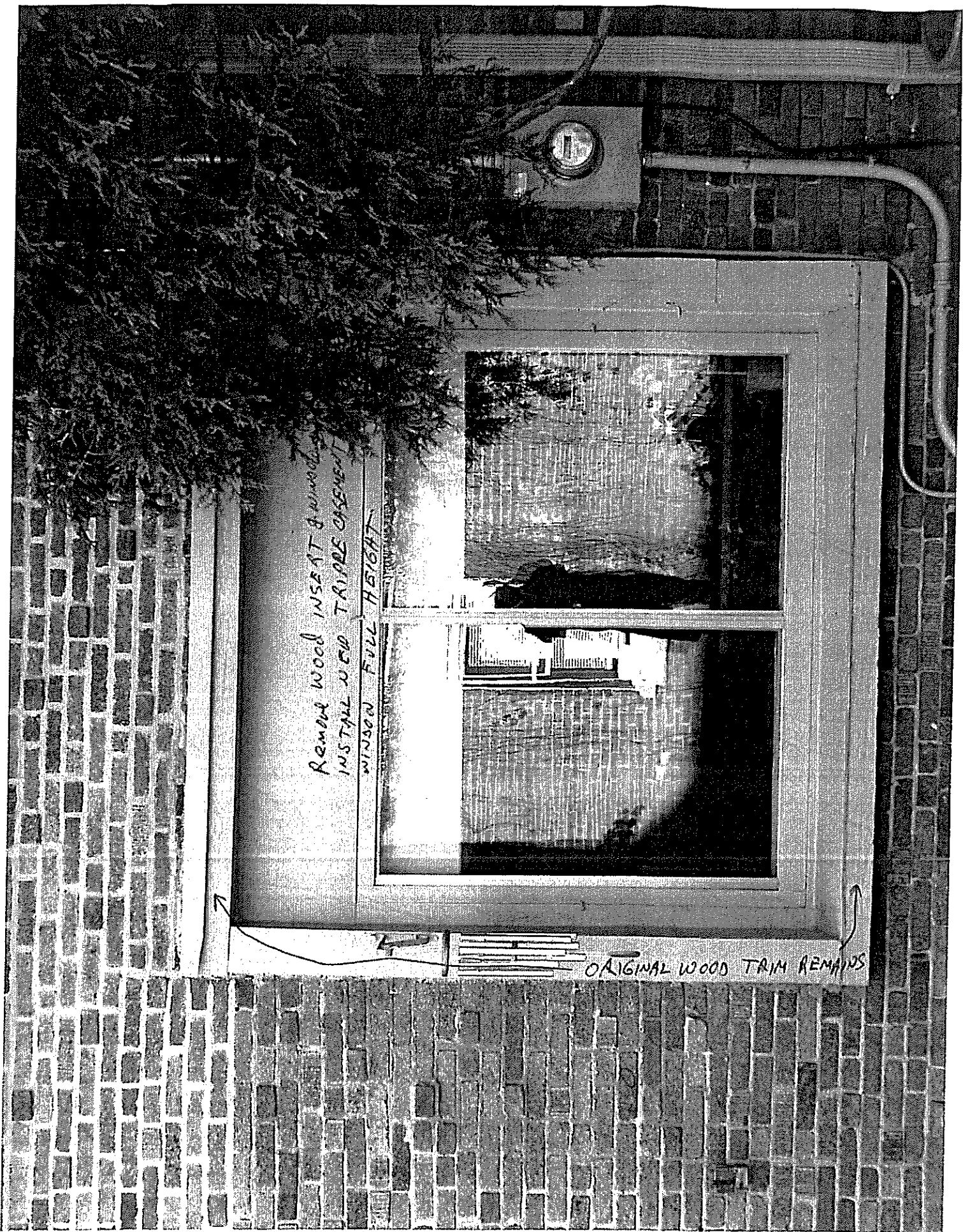
PHONE: (414) 286-5722

FAX: (414) 286-3004

www.milwaukee.gov/hpc

REMOVE WOOD INSERT & WINDOW
INSTALL NEW TRAPDOOR CASSETTE
WINDOW FULL HEIGHT

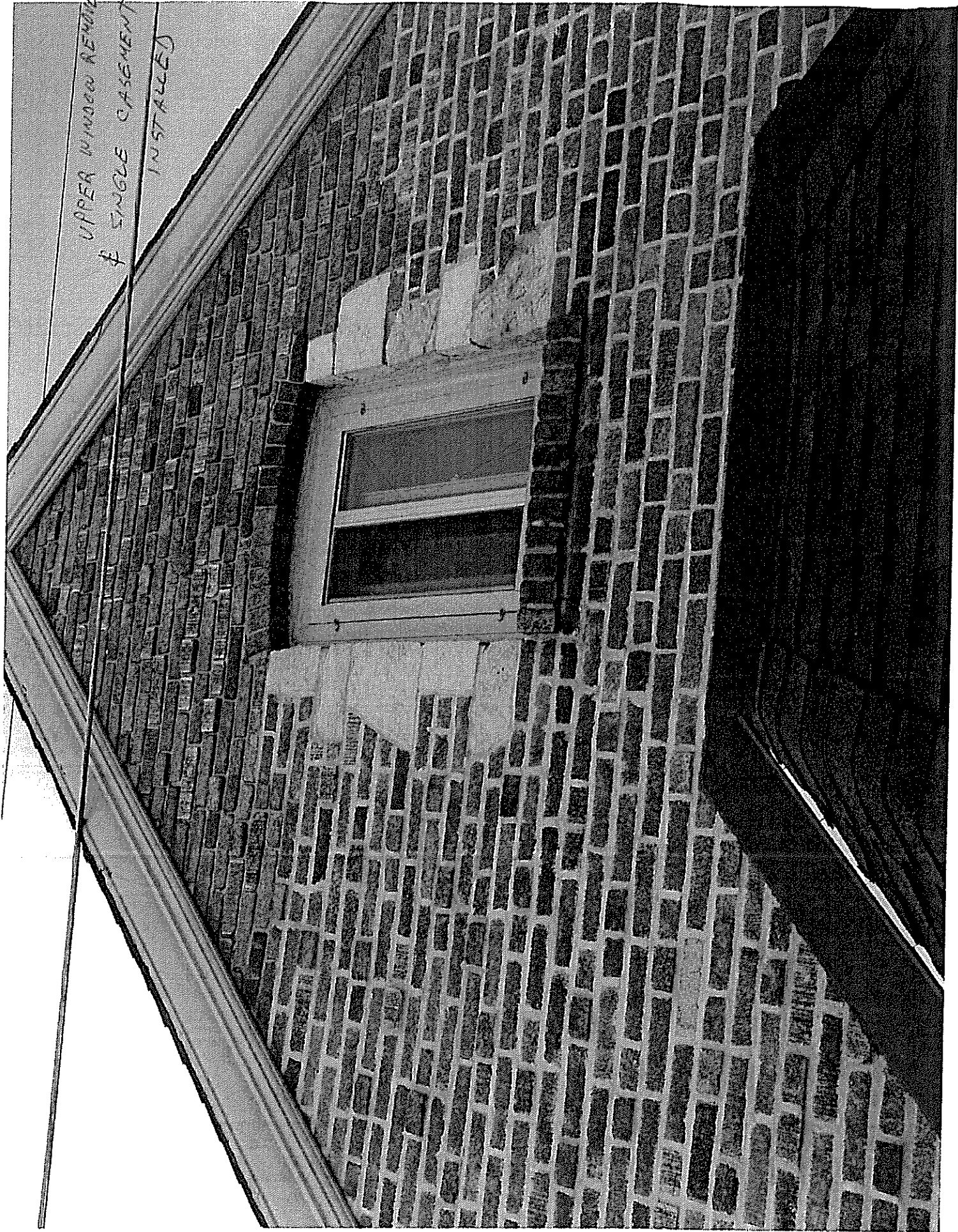
ORIGINAL WOOD TRIM REMAINS

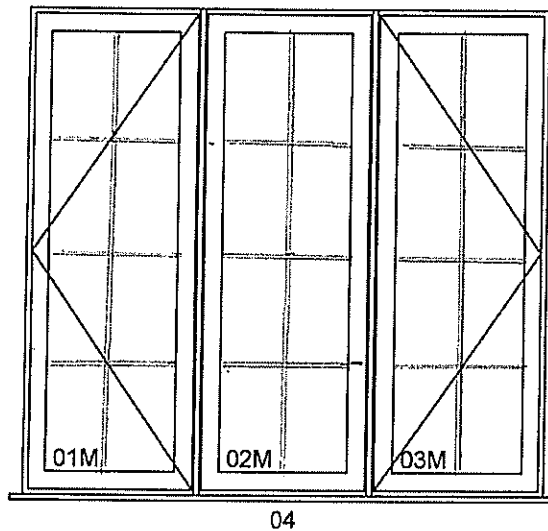




EXISTING WINDOW REMAINS

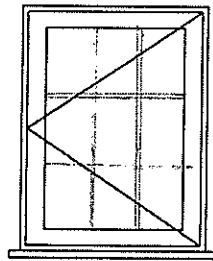
UPPER WINDOW REWIRED
& SINGLE CASEMENT
INSTALLED





LEAD GLASS MULLIONS
(STAINED GLASS OVERLAY)
ALL PANEES TO MIMIC ORIGINAL

Scale: 1/2" = 1'-0"
R.O.: 70" x 66"
M.O.: 69 1/2" x 65 3/4"
Project Name: Untitled



06

UPPER WINDOW
REPLACED TO RESTORE
ORIGINAL APPEARANCE
W/ SINGLE PANE WINDOW &
LEAD GLASS MULLIONS
(STAINED GLASS OVERLAY)

Scale: 1/2" = 1'-0"
Call Name: WUCA-CUSTOM
R.O.: 25 1/2" x 34"
M.O.: 25" x 33 3/4"
Project Name: Untitled

Document #	39
Line #	1
Special Comp.	X
Reference #	156478

Door	
Model	501
Specie	FIR
Wood Treatment	NONE
Finish	NATURAL
Woodcore	JOINTED
Bevel door	NONE
Profit	0.00 Trim 0.00

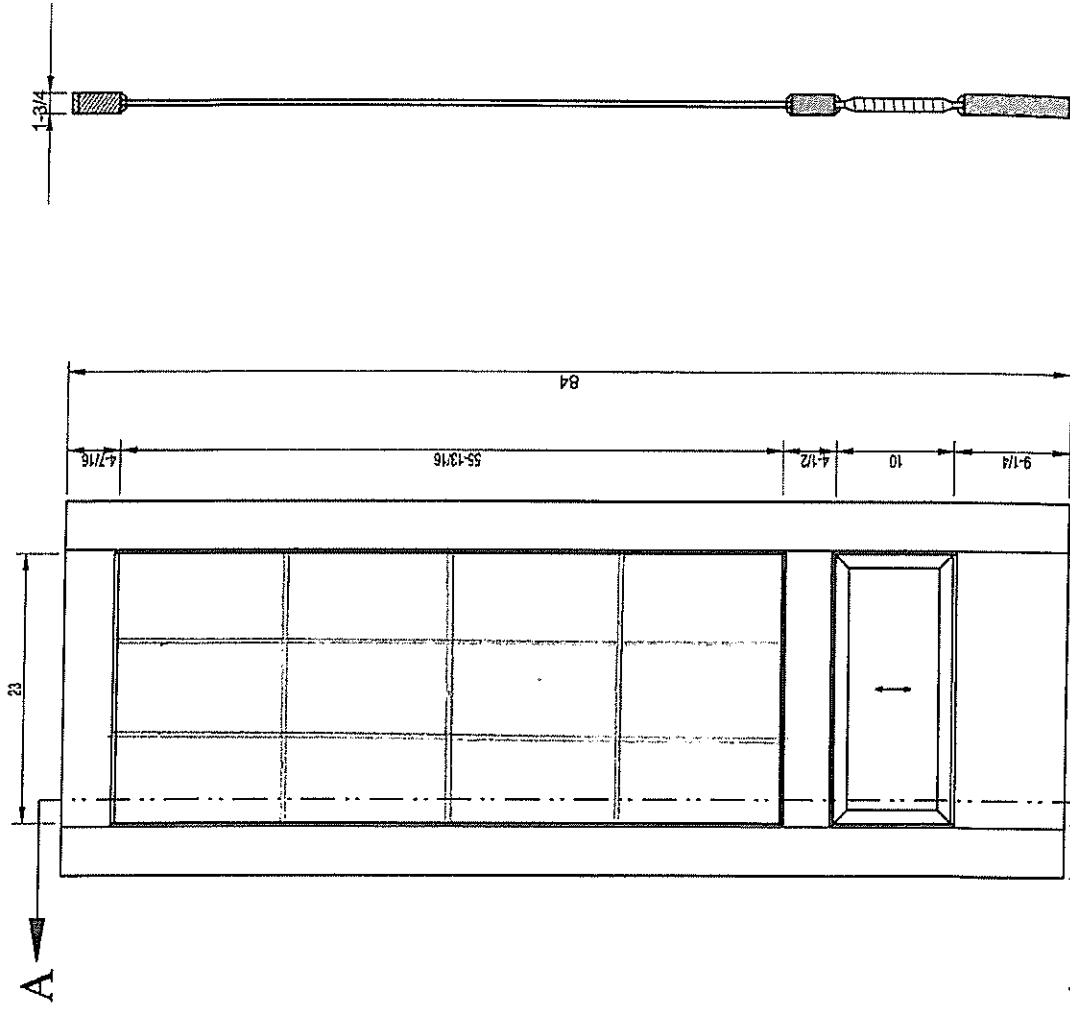
Certification	
Fire Rated	NONE
Structural	NONE

Moulding	
Family	OVOLO
Model	NONE

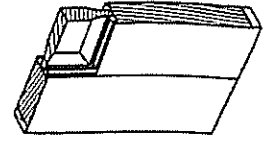
Glass	
Glass Model	NONE
Glass Finish	CLEAR
Bevel	NONE
Insulated	INSULATED
Low-E	NONE

Panel	
Wood	VENEER
Design	NONE
Type	RAISED
Thickness	1.125

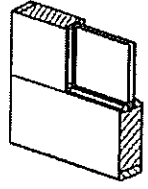
Curve Top	
Radius	0.000
Height Curve	0.000



SECTION A-A



BOTTOM LEFT CORNER



TOP LEFT CORNER

STORM DOOR DESIGN
SIDE A LEAD MULLIONS

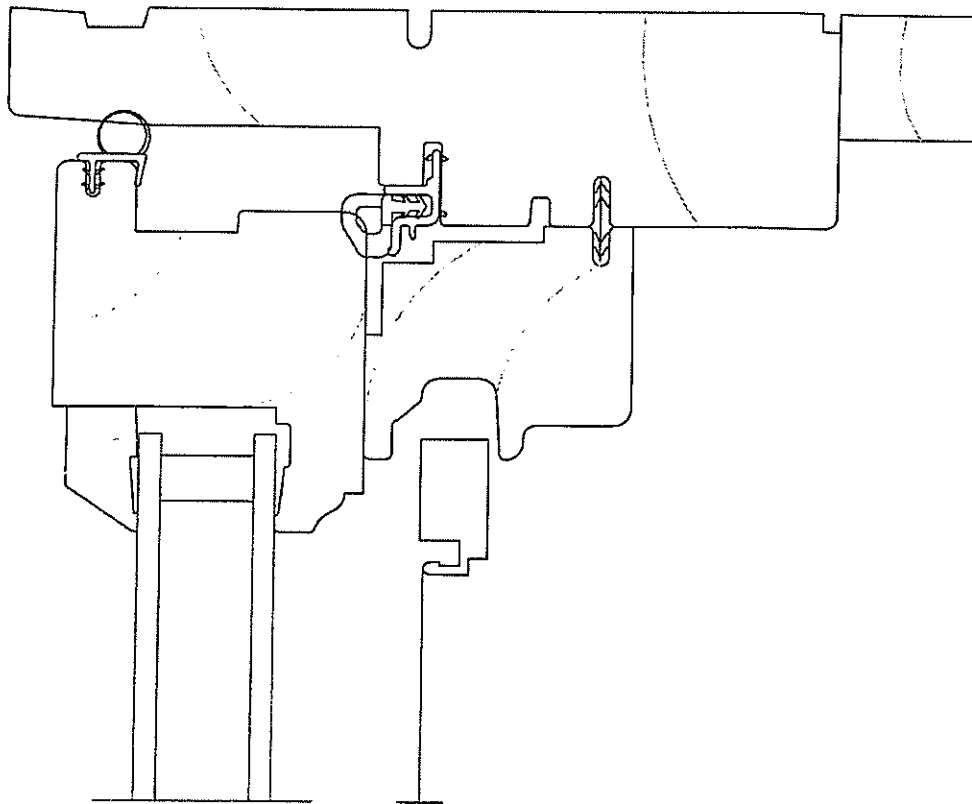


SIDE B (STAINED GLASS OVERLAY)

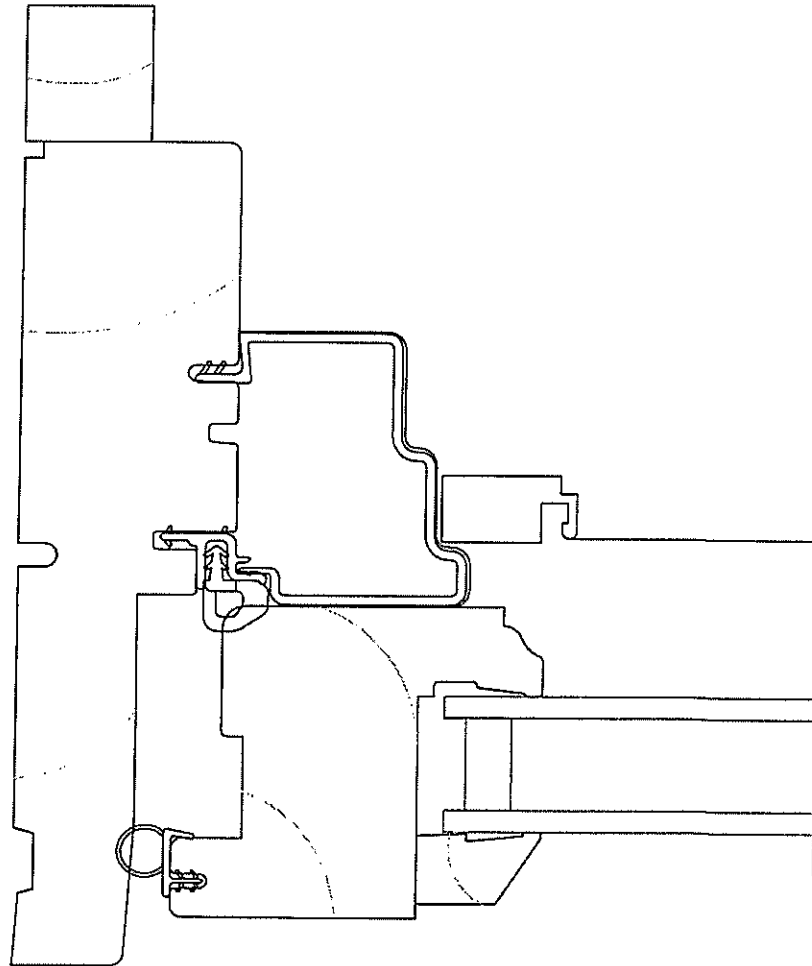
Subject: Re: Lead specs

We use either 1/2" or 3/8" for the internal grid-work, and do a wrap around the perimeter of 1/4". We find that homes in the area use one of these two sizes. I believe that I sent all sizes on the sample that I mailed to Radcliffs.

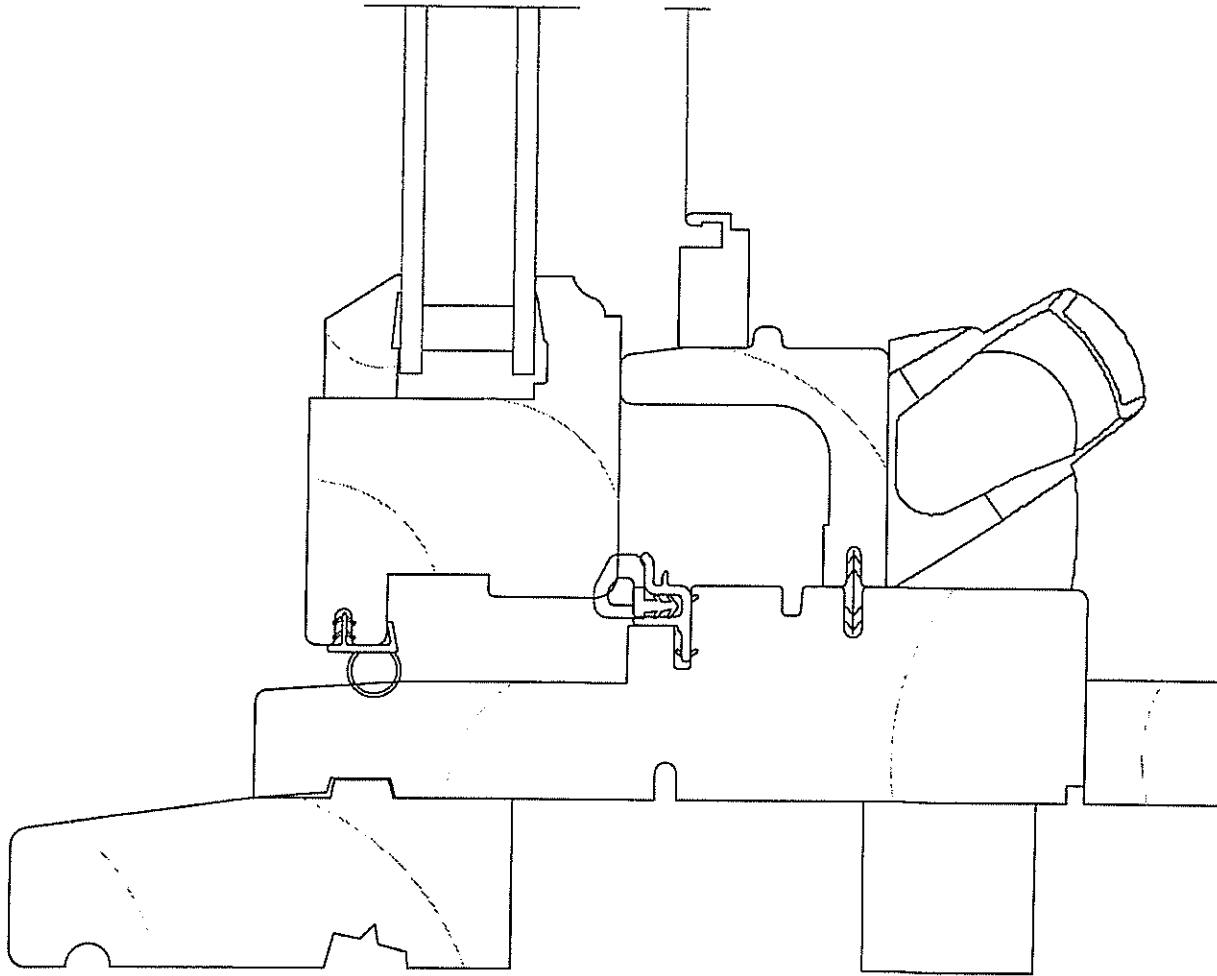
Deb Pettit
SGO Designer Glass LLC
262-893-9179
<http://easternwisconsin.sgodesignerglass.com>
www.facebook.com/sgodesignerglass



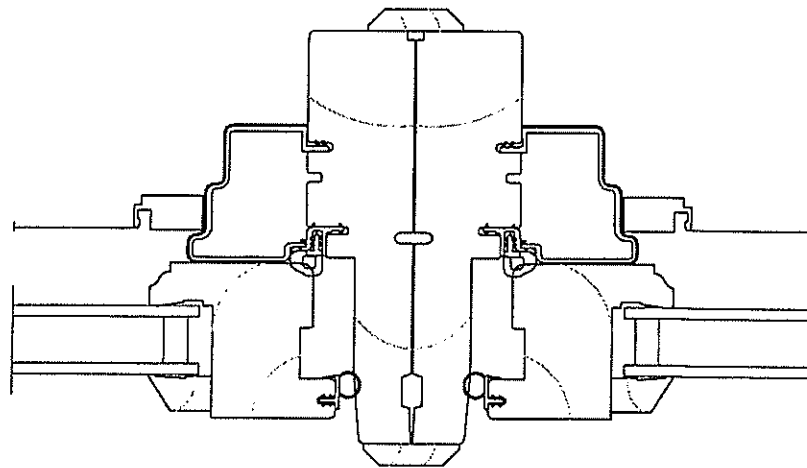
04 (01M) - HEAD



04 (01M) - JAMB



04 (01M) - SILL



04 (02M/02M) - mull

SECTION 08 52 00
WOOD ULTIMATE CASEMENT/AWNING COLLECTION
INCLUDING: PICTURE UNITS, BOWS AND BAYS, PUSHOUT
CASEMENT/AWNING, PICTURE UNITS, BOWS AND BAYS,
PUSHOUT FRENCH CASEMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Wood Ultimate Casement/Awning window: Operators, Stationary and Picture units complete with hardware, glazing, weather strip, insect screens, removable wood grilles, grilles-between-the-glass, simulated divided lite, jamb extension, and standard or specified anchors, trim, and attachments.
- B. Wood Ultimate Casement Bows and Bays complete with hardware, glazing, weather strip, insect screen, removable wood grilles, grilles-between-the-glass, simulated divided lite, jamb extension, head/seat boards, and standard or specified hangers, anchors, trim and attachments.
- C. Wood Ultimate Push Out Casement/Awning windows complete with Push Pull hardware, glazing, weather strip, wood surround insect screens, removable wood grilles, grilles-between-the-glass, simulated divided lite, jamb extension and standard or specified anchors, trim and attachments.
- D. Wood Ultimate Push Out Casement Bows and Bays complete with Push Pull hardware, glazing, weather strip, removable wood grilles, grilles-between-the-glass, simulated divided lite, jamb extensions, and standard or specified hangers, anchors, trim and attachments.
- E. Wood Ultimate Push Out French Casement operating units complete with push out hardware, glazing, weather strip, hinged wood screen, removable grilles, grilles-between-the-glass, simulated divided lite, jamb extension, and standard or specified hangers, anchors, trim and attachments.

1.2 RELATED SECTIONS

- A. Section 01 33 23--Submittal Procedures: Shop Drawings, Product Data and Samples
- B. Section 01 62 00—Product Options
- C. Section 01 65 00—Product Delivery
- D. Section--01 66 00—Storage and Handling Requirements
- E. Section 01 71 00—Examination and Preparation
- F. Section 01 74 00—Execution
- G. Section 01 76 00—Cleaning and Waste Management
- H. Section 01 76 00—Protecting Installed Construction
- I. Section 06 22 00—Millwork: Wood trim other than furnished by window manufacturer
- J. Section 07 92 00—Joint Sealants: Sill sealant and perimeter caulking
- K. Section 09 90 00—Paint or stain other than factory applied finish

1.3 REFERENCES

- A. American Society for Testing Materials
 - 1. E 283: Standard Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors.
 - 2. E 330: Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
 - 3. E 547: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential.
 - 4. E 2190: Specification for Sealed Insulated Glass Units
 - 5. C 1036: Standard Specification for Flat Glass.
 - 6. F2090-10: Standard Specification for Window Fall Prevention Devices with Emergency Escape (egress) Release Mechanisms.
- B. WDMA I.S.4: Industry Standard for Water Repellent Preservative Treatment for Millwork.
- C. American Architectural Manufacturers Association / Window and Door Manufacturers Association (AAMA / WDMA): ANSI / AAMA / NWWDA 101 / I.S.2-97 Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors. And 101 / I.S.2 / NAFS-02 Voluntary Performance Specification for Windows, Skylights, Glass Doors and AAMA / WDMA / CSA 101/I.S.2/A440-05 and AAMA/WDMA/CSA 101/I.S.2/A440-08 Standard/Specification for Windows, Doors, and Skylights, and AAMA/WDMA/CSA 101/I.S.2/A440-08 NAFS-North American Fenestration Standard/Specification for Windows, Doors, and Skylights.

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- D. Window and Door Manufacturers Association (WDMA): 101 / I.S.2 WDMA Hallmark Certification Program.
- E. Sealed Insulating Glass Manufacturers Association / Insulating Glass Certification Council (SIGMA / IGCC).
- F. American Architectural Manufacturers Association (AAMA): 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels.
- G. National Fenestration Rating Council (NFRC): 101: Procedure for Determining Fenestration Product Thermal Properties.

1.4 System Description

- A. Design and Performance Requirements: Crank Out
 - 1. Window units shall be designed to comply with ANSI/AAMA/NWDA 101 / I.S.2-97 and 101 / I.S.2 / NAFS02 and AAMA/WDMA/CSA 101/I.S./A440-05 and AAMA/WDMA/CSA 101/I.S.2/A440-08 for operable Casement Frame Size 40 x 92 1/16 = CW-PG50-C, of Frame Size 36 x 96 1/16 = CW-PG50-C, Operable Awning Frame Size 72 x 64 1/16 = CW-PG50-AP, of Frame Size 72 x 72 1/16 = CW-PG50-AP, AAMA/WDMA/CSA 101/I.S.2A440-08 Picture/Stationary Casement Frame Size 96 1/8 x 88 = CW-PG50-FW, Picture/Stationary Casement frame size 88 x 96 1/16 = CW-PG50-FW. Clad Crank Out French Casement frame size 56 x 60 1/16 = LC-PG40-C.
- B. Design and Performance Requirements: Push Out
 - 1. Window units shall be designed to comply with ANSI/AAMA/NWDA 101/I.S.2-97 and 101/I.S.2NAFS02 and AAMA/WDMA/CSA 101/I.S.2/A440-05 and AAMA/WDMA/CSA 101.I.S./A440-08 for operable Casement frame size 40 x 92 1/16 = C C50, for operable Casement frame size 36 x 96 1/16 = CW-PG50-C, for operable Awning frame size 72 x 48 1/16 = AP-C30, for operable Awning frame size 40 x 48 1/16 = AP-C35. AAMA/WDMA/CSA 101/I.S.2/A440-08 Picture/Stationary Casement frame size 96 x 88 = CW-PG50-FW, Picture/Stationary Casement frame size 88 x 96 1/16 = CW-PG50-FW. French Push Out Casement frame size 56 x 60 1/16 = LC-PG50-C.

1.5 SUBMITTALS

- A. Shop Drawings: Submit shop drawings under provisions of Section 01 33 23.
- B. Product Data: Submit catalog data under provisions of Section 01 33 23.
- C. Samples:
 - 1. Submit corner section under provisions of Section 01 33 23.
 - 2. Include glazing system, quality of construction, and specified Finish.
 - 3. Quality Control Submittals: Certificates: Submit manufacture's certifications indicating compliance with specified performance and design requirements under provisions of Section 01 33 23.

1.6 QUALITY ASSURANCE

- A. Regulatory Requirements: Emergency Egress or Rescue: Comply with requirements for sleeping units of [IBC International Building Code] [BOCA Basic Building Code] [Southern Building Code] [Uniform Building Code].

1.7 DELIVERY

- A. Comply with provisions of Section 01 65 00.
- B. Deliver in original packaging and protect from weather.

1.8 STORAGE AND HANDLING

- A. Prime or seal wood surfaces, including surface to be concealed by wall construction, if more than thirty (30) days will expire between delivery and installation.
- B. Store window units in an upright position in a clean and dry storage area above ground and protect from weather under provisions of Section 01 66 00.

1.9 WARRANTY

SECTION 08 52 00
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CASEMENT/AWNING, PICTURE UNITS, BOWS AND BAYS,
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- A. The following limited warranty is subject to conditions and exclusions. There are certain conditions or applications over which Marvin has no control. Defects or problems as a result of such conditions or applications are not the responsibility of Marvin. For a more complete description of the Marvin limited warranty, refer to the Marvin Windows and Doors Ten-Year Limited Warranty.
- B. Windows shall be warranted to be free from defects in manufacturing, materials, and workmanship for a period of ten (10) years from the purchase date.
- C. Insulating glass shall be warranted against visible obstruction through the glass caused by a failure of the insulating glass air seal for a period of twenty (20) years from the date of original purchase.

PART 2 PRODUCTS

2.1 MANUFACTURED UNITS

- A. Description: Factory assembled Wood Ultimate Casement operating exterior swing window, both Crank Out and Push Out models, as manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- B. Description: Factory assembled Wood Ultimate Casement set-up Bow units.
 - 1. Available in 3, 4, 5 and 6 wide assemblies
 - 2. 6 degree angle
 - 3. Available as a Crank Out or Push Out operators
 - 4. Available with or without head and seat boards
- C. Description: Factory assembled Wood Ultimate Casement set-up Bay units.
 - 1. Available 30 degree, 45 degree, 60 degree and 90 degree.
 - 2. Available as a Crank Out or Push Out operators
 - 3. Available with or without head and seat boards
 - 4. Optional retrofit square jamb return, available for Crank Out units only.

2.2 FRAME DESCRIPTION

- A. Interior: Clear Pine or finger jointed core with clear Pine veneer, or Douglas Fir; optional species; clear Mahogany or finger jointed core with clear Mahogany veneer; clear Vertical Grain Douglas Fir or finger jointed core with clear Vertical Grain Douglas Fir veneer.
- B. Kiln dried to moisture content no greater than twelve (12) percent at the time of fabrication.
- C. Water repellent preservative treated in accordance with WDMA I.S.4.
 - 1. Frame Thickness: 1 3/16" (30mm).
- D. Frame depth: Overall 5 21/32 inch (144mm) for full frame applications, and 4 9/16 inch (116mm) jamb depth from the back of exterior casing to the interior face of the frame for new construction.

2.3 SASH DESCRIPTION

- A. Clear Pine standard or Douglas Fir; optional species Mahogany or Vertical Grain Douglas Fir.
 - 1. Kiln dried to moisture content no greater than twelve (12) percent at the time of fabrication.
 - 2. Water repellent preservative treated in accordance with WDMA I.S.4.
- B. Sash thickness: 1 5/8 inches (41mm) with 3/4 inch (19mm) insulated glass. For 1 inch (25mm) insulated glass sash thickness is 1 7/8 inches (48mm).
- C. Sash Options:
 - 1. Tall Bottom Rail
 - 2. Interior Sticking
 - a. Ovolo
 - b. Ogee
 - c. Square

2.4 GLAZING

- A. Select quality complying with ASTM C 1036. Insulating glass SIGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E 2190.
- B. Glazing method: Insulating glass (altitude adjusted).

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- C. Glass type: Clear; Bronze; Gray; Reflective Bronze; LoE 180™ with Argon; LoE² 272[®] with Argon; LoE³ 366[®] with Argon; Tri-pane LoE² 272[®] with Argon; Tri-pane LoE 180™ with Argon; Tri-pane LoE³ 366[®] with Argon; Tri-pane LoE² 272[®] with Krypton/Argon; Tri-pane LoE 180™ with Krypton/Argon; Tri-pane LoE³ 366[®] with Krypton/Argon; Tempered; Obscure; Laminated.
- D. Glazing seal: silicon bedding at interior and exterior.

2.5 FINISH

- A. Exterior: Treated bare wood or latex primer available on pine units only.
- B. Interior: Treated bare wood or latex primer on pine units only.
- C. Painted Interior Finish: Optional factory applied water based acrylic paint over compatible primer. Available on Pine products only. Color – White

2.6 HARDWARE (Stainless Steel Available)

A. Casement Crank Out:

Factory installed operating hardware:

- 1. Hinges: One at the sill to bottom rail and one at the head jamb to top rail. Hinges are steel coated with E-Gard™. Hinge track is stainless steel. Units with a frame OM of 20" (508mm) and greater use an 18" (457mm) wash/egress hinge or 22" (559mm) wash/egress hinge to allow the sash to slide across the frame opening which causes the sash exterior to rotate towards the user for easy washing. Units under 20" (508mm) use dyad hinges. Using the dyad hinges means that the slide across feature, for easy washing, is no longer a feature.
- 2. Operating hardware: Single arm standard coated with E-Gard™.
 - 1. Handles: The standard operating handle is a folding handle, zinc painted with the standard folding cover being molded plastic. Available colors: standard is Satin Taupe (painted), White (painted), Bronze (painted), Satin Chrome (plated), Satin Nickel (plated), Oil Rubbed Bronze (plated), Brass (plated), Antique Brass (plated).
 - 2. Multi-point, sequential, concealed locking system in the jamb opposite the hinge side. Lock handles are removable, non-handed, and are available in the same finishes as handles. Standard tie bar, cams and keepers are steel coated with E-Gard™.
 - 3. Factory installed Window Opening Control Device for operating units:
 - a. Minimum frame OSM: 26" (660mm) x 20 1/16" (510mm); Maximum frame OSM: 40" (1016mm) x 92 1/16" (2338mm) (if frame is greater than 36") or 36" (914mm) x 97 1/16" (2465mm) (if frame is less than or equal to 36")
 - b. WOCD locking assembly: Factory installed. Die Cast. Color: Satin Taupe, Bronze, White, Oil-Rubbed Bronze, Brass, Satin Nickel, Antique Brass, Polished Chrome, Satin Chrome.
 - c. WOCD tether assembly: Factory installed. Glass filled nylon. Color: E-Gard color match.

B. Awning Crank Out:

- 1. Hinges: There are two hinges that connect the stiles of the sash to the jambs of the frame. The hinges are steel coated with E-Gard™, and the hinge track is stainless steel.
- 2. Operating Hardware: Single arm standard, coated with E-Gard™.
- 3. Handles: The standard operating handle is a folding handle, zinc painted with the standard folding cover being molded plastic. Available colors: standard is Satin Taupe (painted), White (painted), Bronze (painted), Satin Chrome (plated), Satin Nickel (plated), Oil Rubbed Bronze (plated), Brass (plated), Antique Brass (plated).
- 4. Locks: Multi-point, sequential, concealed locking system in the jamb opposite the hinge side. Lock handles are removable, non-handed, and are available in the same finishes as handles. Standard tie bar, cams and keepers are steel coated with E-Gard™.
- 5. Power Drive: Is an optional remote control operating system that is applied in the field. If an op-o-lock is installed, on the Awning, the Power Drive will also engage the cam locks. If the op-o-lock is not used, the sash locks must be manually engaged. The Power Drive is available on Awnings with a frame width of 18" or wider. Available colors: Satin Taupe, White, and Bronze.

BOTH POWER DRIVE AND POLE CRANK DO NOT OPERATE THE LOCKS

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C. Casement Push Out:

1. Hinges: One at the sill to bottom rail and one at the head jamb to top rail. Hinges are steel coated with E-Gard™. Hinge track is stainless steel. Units with a frame OM of 20 inches (508mm) to under 24 inches use an 18 inch (457mm) wash/egress hinge, or 22 inches (559mm) wash/egress hinge on units greater than 24 inches. The wash/egress hinge allows the sash to slide across the frame opening which causes the sash exterior to rotate towards the user for easy washing. Units under 20 inches (508mm) use dyad hinges. Using the dyad hinges means that the slide across feature, for easy washing, is no longer a feature.
2. Operating Hardware: The casement unit includes one friction limiter device to control the sash open position. The limiter includes adjustable friction via a screw adjustment. The limiter has multiple positions that can be locked to hold the sash firmly in place.
3. Lock: Multi-point, sequential, concealed locking system in the jamb opposite the hinge side. Lock handles are removable, non-handed, and are available in satin taupe, White, Bronze, Satin Chrome, Satin Nickel, Oil Rubbed Bronze, Brass, Antique Brass. Standard tie bar, cams and keepers are steel coated with E-Gard™.

D. Awning Push Out:

1. There are two hinges that connect the stiles of the sash to the jambs of the frame. The hinges are four bar hinges. All hinges include friction adjustment via a set screw in the brass shoe.
2. A large enough opening to allow egress is also available, if the correct size is specified.

E. French Casement Push Out:

1. Hinges: One at the sill to bottom rail and one at the head jamb to top rail. Hinges are steel coated with E-Gard™. The hinge tracks are stainless steel. The hinges feature a robust adjustable friction limiter device to hold the sash in place when opened, plus a feature that locks the sash open at multiple locations. Hinges on units that are 36" (914) to less than 40" (1016) use 10" (254) Dyad hinges that do not feature the wash/egress mode. Units that are 40" (1016) to less than 51" (1295) use 18" (457) hinges that feature the wash/egress mode. Units that are 51" (1295) to less than 60" (1524) use 22" (559) hinges that feature the wash/egress mode. Coastal package is available with stainless steel.
2. Locks: A multi-point lock system with an Oil Rubbed single lock actuator. The lock on the primary sash locks into the head jamb, sill and into the jamb or stile of the secondary sash. The lock on the secondary sash activates bolts that go into the head jamb and sill.
3. Handle/Lock finish options: Brass, Antique Brass and Satin Nickel.

2.7 WEATHER STRIP

- A. Weather stripped at frame is a hollow foamed material bent around 90 degree corner to allow for seamless corner joints, beige in color. Sash weather strip is bulb shaped glass filled material, available in white, beige or black.

2.8 JAMB EXTENSION

- A. Jamb Extensions are available for various wall thicknesses, factory applied up to 12" (305mm) wide.
- B. Finish: Match interior frame finish.

2.9 INSECT SCREENS

- A. Factory installed. Screen mesh, 18x16: Charcoal fiberglass; Charcoal Aluminum Wire; Black Aluminum Wire; Bright Aluminum Wire; Bright Bronze Wire; or High Transparency (Hi-Tran) Charcoal Fiberglass screen mesh 20x20.
 1. Crank Out Models: Standard = Aluminum surround available in Satin Taupe, Stone White or Bronze.

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- a. Optional Wood surround with Hi Tran screening (other screening options are available). Species will match unit species.
 - b. Optional Wood Retractable Screen; Hi Tran screening, Species will match unit species.
 - 2. Push Out Models: Standard = Wood Hinged Screen
 - a. High Transparency Fiberglass; Charcoal Fiberglass;
 - b. Charcoal Aluminum Wire; Black Aluminum Wire; Bright Aluminum Wire; Bright Bronze Wire.
 - c. The species will match the species of the window.
- 2.10 REMOVABLE GRILLES
- A. Interior removable, 3/4" (19mm) or 1 1/8" (29mm) wide.
 - 1. Pattern: Rectangular; Diamond; Custom pattern.
 - 2. Finish; Match interior sash finish.
- 2.11 SIMULATED DIVIDED LITES (SDL)
- A. 5/8" (16mm), 7/8" (22), 1 1/8" (29mm), 1 3/4" (44mm), 2 13/32" (61) wide, with or without internal spacer bars.
 - 1. Finish options: Pine, mixed grain Douglas Fir, Mahogany or vertical grain Douglas Fir.
 - 2. Patterns: Rectangular or custom lite layout.
- 2.12 GRILLES-BETWEEN-THE-GLASS (GBG)
- A. 11/16" (17mm) white contoured aluminum bar.
 - 1. Exterior Colors; Stone White, Arctic White, Bronze, Pebble Gray, Bahama Brown, Cashmere, Ebony, Evergreen, Sherwood Green, Sierra White, French Vanilla, Coconut Cream and Wineberry. (The exterior GBG color is designed to best match the Marvin clad colors when used with LoE glass. The use of different types of glazing options may alter the exterior GBG color appearance)
 - 2. Interior Colors; White is the default. Optional Colors; Bronze, Pebble Gray and Sierra White.
 - B. Optional flat aluminum spacer bar available.
- 2.13 AUTHENTIC DIVIDED LITE (ADL or TDL)
- A. Individual glazed lites in single glass or insulated glass.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Before installation, verify openings are plumb, square and of proper dimension as required in Section 01 71 00. Report frame defects or unsuitable conditions to the General Contractor before proceeding.
- B. Acceptance of Conditions: Beginning installation confirms acceptance of existing conditions.

3.2 INSTALLATION

- A. Comply with Section 01 73 00.
- B. Assemble and install window unit/s according to manufacturer's instructions and reviewed shop drawings.
- C. Install sealant and related backing materials at perimeter of unit or assembly in accordance with Section 07 92 00 Joint Sealants. Do not use expanding foam sealant.
- D. Install accessory items as required.
- E. Use finish nails to apply wood trim and mouldings.

3.3 CLEANING

- A. Remove visible labels and adhesive residue according to manufacturer's instructions.
- B. Leave windows and glass in a clean condition. Final cleaning as required in Section 01 74 00.

SECTION 08 52 00
WOOD ULTIMATE CASEMENT/AWNING COLLECTION
INCLUDING: PICTURE UNITS, BOWS AND BAYS, PUSHOUT
CASEMENT/AWNING, PICTURE UNITS, BOWS AND BAYS,
PUSHOUT FRENCH CASEMENT

3.4 PROTECTING INSTALLED CONSTRUCTION

- A. Comply with Section 01 76 00.
- B. Protect windows from damage by chemicals, solvents, paint, or other construction operations that may cause damage.

END OF SECTION

Unit Features

Wood Ultimate Casement Collection:

Wood Ultimate Casement (WUCA), Wood Ultimate Awning (WUAWN), Wood Ultimate Casement Picture (WUCAP)
Wood Ultimate Casement Bows and Bays (WUCABB)
Wood Ultimate Push Out Casement (WUPCA), Wood Ultimate Push Out Awning (WUPAWN)
Wood Ultimate Push Out Casement Picture (WUPCAP), Wood Ultimate Push Out Casement Bows and Bays (WUPCABB)
Wood Ultimate French Casement (WUFCA), Wood Ultimate Push Out French Casement (WUPFCA)
Wood Ultimate Casement Polygon (WUCAPOLY)
Wood Ultimate Replacement Casement (WURCA) Wood Ultimate Replacement Awning (WURAWN)
Wood Ultimate Replacement Casement Picture (WURCAP)
Wood Ultimate Replacement Push Out Casement (WURPCA), Wood Ultimate Replacement Push Out Awning (WURPAWN)
Wood Ultimate Replacement Push Out Casement Picture (WURPCAP)
Wood Ultimate Replacement Casement Round Top (WURCART), Wood Ultimate Replacement Casement Polygon (WURCAPOLY)

Frame:

- Frame thickness: 1 3/16" (30) all the way around.
- Frame base with pre-drilled installation holes in jambs. Factory applied 2" (51) BMC and 15/16" (24) subsill is standard.
- Full frame unit is 4 9/16" (116) from backside of BMC to interior wood face of frame.
- Replacement frame: units have overall 3 11/32" (85) jambs from BMC to interior face of frame

Sash:

- Nominal Sash thickness for full frame: 1 3/4" (44) with 3/4" (19) insulating glass. For 1" (25) insulating glass sash thickness is 2" (51).
- Nominal Sash thickness for replacement frame: 1 3/4" (44) with 3/4" (19) insulating glass.
- Stiles and Rails 2 1/16" (52) standard. Optional tall bottom rail 3 9/16" (90) available.
- Standard interior cope sticking shape: Ogee. Optional Ovolo and Square is available depending on glazing option.
- Standard exterior cope sticking shape: Simulated Putty Glaze.

Hardware: - See Individual Product Chapter

Weather Strip:

- Frame weather strip is made of a foamed EPDM material with a hollow built in it to reduce compression force. The material is UV resistant, durable, has a low COE, and is flexible enough to be bent around 90 degree corners to allow for fewer seams in it around the frame. It is only available in beige.
- Sash weather strip is made of glass filled polypropylene material and is formulated to be UV resistant, have low COE, and slide easily in and out of frame. Standard color is beige, with optional black or white.

Insect Screen:

- Standard is a full size roll form aluminum surround, in Satin Taupe, optional Stone White or Bronze. Standard screen mesh is Charcoal Fiberglass. Optional screen mesh is High Transparency, Silver Gray Fiberglass, Charcoal Aluminum, Black Aluminum, Bright Aluminum, or Bright Bronze.
- Optional wood screen available. Standard screen mesh is high transparency. Screen mesh options Charcoal Fiberglass, Silver Gray Fiberglass, Charcoal Aluminum, Black Aluminum, Bright Aluminum, Bright Bronze.

Wood Interior Swinging Insect Screens: (Push Out Units only)

- Interior and exterior is solid wood.
- Ball and Catch latch system used.
- Screen mesh: Charcoal High Transparency (CH HI-Tran) fiberglass.
- Screen mesh options: Charcoal Fiberglass, Silver Gray Fiberglass, Charcoal Aluminum, Black Aluminum, Bright Aluminum and Bright Bronze.

Glass and Glazing:

- 3/4" (19) thickness for 1 3/4" (44) sash.
- 1" (25) thickness for 2" (51) sash.
- Glazing seal: Silicone glazed.
- Standard glass is insulating LoE²272[®] with Argon or Air.
- Optional glazing available: LoE¹180[™] with Argon or Air, LoE¹366[®] with Argon or Air, clear, tints, tempered, obscure and others.
- Insulating glass will be altitude adjusted with capillary tubes for higher elevations. Argon gas is not available for elevations that require capillary tubes.
- See unit features in product sections for Tri-pane glass options.