Property Location **904 Classen Blvd**
Miller Historic District

Owner **Ryan Hauser**

Request **(HD 23-19) Consideration of Certificate of Appropriateness for the property located at 904 Classen Boulevard as for the following proposed work:**

a. **the replacement of all windows with aluminum-clad wood windows;**
b. **the restoration of columns on the front of the house;**
c. **the removal of a secondary front door on the front porch;**
d. **the addition of wooden brackets on gables;**
e. **the installation of new front door and side lights.**

Property History

Historical Information

2004 Miller Historic District Nomination Survey Information:

Ca. 1913. Bungalow/Craftsman. This non-contributing, one-story, aluminum-sided, single dwelling has an asphalt-covered, cross-gabled roof and a concrete foundation. The wood hung windows are twelve-over-one and one-over-one. The wood door is glazed paneled. The wraparound porch has been enclosed on the north side with one-over-one windows and aluminum siding. The remaining partial porch has aluminum-sided walls and an aluminum-sided column supporting the south side of the porch roof. There is a decorative concrete block, interior, slope chimney on the north side, a gabled dormer with a single rectangular window on the front and a rear screened porch. Decorative details include gable returns and double and triple windows. The building is noncontributing due to a loss of integrity.

Sanborn Insurance Maps

The primary structure is indicated in its present location on the 1925 and 1944 Sanborn map. The existing garage accessory structure in the current configuration is not indicated on either map, indicating that the structure was erected sometime after 1944.

Previous Actions

August 6, 2001 - A COA was granted for side-yard and rear-yard fences.

September 9, 2002 - A COA was granted for the installation of a swimming pool.

March 6, 2006 - A COA was granted for the installation of French doors in the accessory structure in the rear yard.

October 6, 2008 - A COA was granted for replacement of an overhead garage door to be replaced with a window and cinderblock in the accessory structure.

September 11, 2017 - A COA was granted for a Certificate of Appropriateness for the exterior modification of an existing accessory structure and the addition of a pergola. This worked was not installed.

January 3, 2022 – A COA was granted for the modification of an existing accessory structure, and replacement of metal/vinyl with cement fiberboard siding on the house. The request for replacement of windows on the north side was postponed, pending additional information from applicant. The applicant did start on the modifications of the accessory structure but issues with the insurance company for the repairs to the exterior of the house has delayed this work.

Overall Project Description

The applicant is seeking to improve the exterior of the house with the several proposed projects.

Some of the windows on the north side of the structure were damaged in the October 2021 hail storm. The applicant would like to replace those windows as well as the rest of the windows on the house to help make the house more consistent. He proposes all of the windows in the house be replaced with aluminum-clad six-over-one.

The applicant would also like to restore the front porch columns that exist under the metal siding on the northeast corner of the structure and on the front porch area.

Along with this restoration of the front columns, the applicant wishes to remove the secondary door that is located on the north wall of the front porch. He proposes to cover the door opening with cement fiber siding or composite siding.

The applicant along with other exterior modifications wishes to add “knee” type wood brackets underneath the eaves of the gables on the front facing gables for aesthetic reasons.

Finally, the applicant wishes to replace the existing front door and side lights with a wood door that has a different wood/window ration for safety reasons.

Request – a. the replacement of all windows with aluminum-clad windows;
Description

The applicant wishes to replace all twenty-one windows in the house with aluminum-clad six-over-one windows to bring cohesiveness to the structure.

Reference - Historic District Ordinance

36-535.c.2.g.3. *Reviewing non-contributing structures. Non-contributing structures should be controlled only to the degree necessary to make them compatible with the general atmosphere of any district with regard to exterior alteration, additions, signs, site work and related activities.*

Reference - Preservation Guidelines

Windows

3.11 Standards for Administrative Bypass

The following items can receive a Certificate of Appropriateness (COA) through the Administrative Bypass process if they meet the criteria listed below. If they do not meet the criteria, the application will be forwarded to the Historic District Commission for a full review.

.1 Window Replacement. *An historic window that is deteriorated more than 50% and is not repairable may be replaced in-kind if it meets the following:*

a. *Replace original windows in-kind, meaning match the original in material and finish.*
b. *Muntin width and profile are same as the original in width and profile.*
c. *Light pattern is the same as the original.*
d. *True divided lights (panes) are the same as the original glass thickness.*
e. *Size and dimension of all window components are the same as the original.*
f. *Replacement of less than 50% of the windows on a given elevation.*

3.12 Guidelines for Windows

A review by the Historic District Commission will use the following criteria for the issuance of a Certificate of Appropriateness (COA):

.1 Retain Original Windows*. Retain and preserve original windows, including glass, frames, sash, muntins, sills, heads, moldings, surrounds, and hardware.*

.2 Retain Historic Glass*. Retain original glass in historic windows if at all possible. Leaded glass windows shall be preserved. Bubbles and waves give old glass its distinctive look and add to the historic character of the house.*

.3 Glass Replacement*. Individual panes of historic glass that have been broken or cracked, may be replaced with modern-day clear glass. Salvaged historic glass or reproduction historic "wavy" glass is also acceptable replacement where historic glass was present.*

.4 Glass Variations.

a. *Privacy glass may only be located in the rear or on the side of the structure, where not visible from the front. Smoked or tinted glass is not appropriate for use in historic structures.*
b. *Beveled glass in doors and windows is allowed as long as it is compatible with style of the historic building and the original configuration of window panes remains.*
c. *Colored glass may be used in transoms and sidelights if supported by historical documentation or compatible with the architectural style.*

***.5 Replace Only Deteriorated Features**. If replacement of a deteriorated window or door feature or details is necessary, replace only the deteriorated feature in-kind rather than the entire unit. Broken sash cords, for example, can be repaired and do not necessitate replacing an entire window. Match the original in design, dimension, placement, and material.*

***.6 Sash Replacement**. Replacement sash, often referred to as sash replacement kits, are acceptable for use in historic structures. However, replacement window sash shall be unclad wood, with single-pane thickness, true divided light patterns that match the historic muntin pattern and profile of the house.*

***.7 Window Replacement.** An original window that is deteriorated more than 50% and is not repairable may be replaced in-kind if it meets the following:*

a. Shall have a wood exterior, unless replacing a metal casement window.
b. Light patterns same as the original.
c. Size and dimension the same as the original.
d. Double-pane simulated divided lights with wood muntins on the exterior and interior and a shadow bar between the panes may be allowed for windows on the side or rear that are not visible from the street.

***.8 Retain Original Metal Windows**. Replace original metal casement windows only as a last resort after weatherization measures have proven unsuccessful.*

***.9 Preserve Original Openings**. Do not create new openings in the front or side façades of historic structures. Do not enlarge or diminish existing openings to fit stock window sizes. If new openings are necessary to meet code requirements, they shall be compatible with historic windows for that structure in proportion, shape, location, pattern, size, materials, and details.*

***.10 Materials**. Wood is allowable for in-kind replacement of windows. Aluminum-clad and metal windows can be considered for the replacement of metal casement windows that are deteriorated on a case-by-case basis. Fiberglass and aluminum–clad windows can be considered on non-contributing resources and on rear elevations not visible from the front right-of-way. Vinyl-clad windows are prohibited for both contributing and non-contributing structures in the historic districts.*

Staff Comments

This house has had many renovations and therefore, contains a variety of window materials and design. Several of the windows on the north side of the structure are wood but are not original to the house as they are part of additions installed prior to the property being added to the Miller Historic District. Other windows in the house are metal or vinyl and have various window pane configurations including nine-over-nine, six-over-one, and one-over-one. It should be noted that the 2004 Miller Historic District Survey indicates windows at that time included both twelve-over-one and one-over-one pane configurations. This structure is a non-contributing structure and the proposed six-over-one aluminum-clad windows is a style seen in the neighborhood.

The Commission would need to determine if the proposed replacement of windows on this non-contributing structure with aluminum-clad six-over-one wood windows would be a compatible alteration for this property and the District as a whole.

Commission Action: Consideration of approval, rejection, amendment, and/or postponement of the Certificate of Appropriateness (HD 23-19) for the property located at 904 Classen Boulevard for the following proposed work:
a. the replacement of all windows with aluminum-clad wood windows;

Request – b. the restoration columns on front of the house;
Description
The applicant wishes to restore the columns which will be exposed when the metal siding is removed. He has stated that half of the width of the columns can be seen inside the room located on the northeast corner of the house. He assumes the exterior wall will contain the other half of the column. He believes the porch which is also encased in metal siding as well as half wall; will have partial columns as well. In both cases he wishes to reveal and restore the wood columns tapers and restore the brick bases that are missing. He is also proposing to install a brick base between columns to bring uniformity to the front of the house as illustrated on submitted drawings.

Reference - Historic District Ordinance
36-535.c.2.g.3. *Reviewing non-contributing structures. Non-contributing structures should be controlled only to the degree necessary to make them compatible with the general atmosphere of any district with regard to exterior alteration, additions, signs, site work and related activities.*

Reference - Preservation Guidelines
Exterior Walls
3.1 Standards for Administrative Bypass
The following items can receive a Certificate of Appropriateness (COA) through the Administrative Bypass process if they meet the criteria listed. If they do not meet the criteria, the application will be forwarded to the Historic District Commission for a full review.
.1 Removal of wall materials. *Removal of non-original or contemporary synthetic materials to reveal existing historic materials is permitted. If existing historic siding material underneath the non-original or contemporary synthetic materials has been removed, the reinstallation of appropriate/compatible material requires review by the Historic District Commission.*

3.2 Guidelines
A review by the Historic District Commission will use the following criteria for the issuance of a Certificate of Appropriateness (COA):

***.1 Preserve Original Walls**. Retain and preserve exterior walls that contribute to the overall historic form and character of a building, including functional and decorative features and details.*
***.2 Retain Original Building Materials**. Retain and preserve exterior wall materials that contribute to the overall historic character of a building.*
***.3 Replace Only Deteriorated Portions**. If replacement of a deteriorated wall or feature is necessary, replace only the deteriorated portion in-kind rather than the entire feature. Match the original in material, design, dimension, detail, texture, and pattern. Compatible substitute materials can be considered if in-kind replacement material are not available or feasible.*
***.4 Avoid Covering Original Materials**. Building materials and decorative elements are important character-defining components of historic buildings. It is not appropriate to remove or cover any wall material or detail with coatings or contemporary substitute materials. Vinyl and aluminum siding is not appropriate for use in historic districts.*
***.5 Replace Missing Features**. When replacing an exterior wall or feature, replace it with a new wall or feature based on accurate documentation of the original or a new design that is compatible with the historic character of the building and the district. Compatible substitute materials can be considered if in-kind replacement material are not available or feasible.*
***.6 Avoid False Historical Appearances**. Features or details of walls and fences that are introduced to a property shall reflect its style, period, and design. Fences and walls features shall not create a false historical appearance by reflecting other time periods, styles, or geographic regions of the country.*
***.7 Substitute Materials**. Cement fiberboard (e.g. Hardiplank® siding) will be considered on a case-by-case basis. Exterior insulating and finish systems (EIFS) will not be considered for use in historic structures.*

Staff Comments
The applicant's restoration proposal for the columns comprised of wood tapered top and brick bottom, is a typical configuration seen in the Miller District. Even though the applicant will not be able to entirely restore the columns, partial restoration will help to reinstate the look of the front porch as seen in many structures in the Miller Historic District.

The Commission would need to determine if the restoration of the columns on the front of this non-contributing structure is appropriate and if it is compatible with the surrounding Miller Historic District.

Commission Action: Consideration of approval, rejection, amendment, and/or postponement of the Certificate of Appropriateness (HD 23-19) for the property located at 904 Classen Boulevard for the following proposed work:
b. the restoration of columns on front of the house;

Request – c. the removal of secondary front door on front porch;

Description

The applicant wishes to remove a second entrance located on the north wall of the front porch, so as to have better internal programming and to restore the look of the front porch. The opening will be covered in cement fiber board siding which matches the siding approved last year for the remainder of the exterior of this house.

Reference - Historic District Ordinance

36-535.c.2.g.3. *Reviewing non-contributing structures. Non-contributing structures should be controlled only to the degree necessary to make them compatible with the general atmosphere of any district with regard to exterior alteration, additions, signs, site work and related activities.*

Reference - Preservation Guidelines

Doors

3.13 Standards for Administrative Bypass

The following items can receive a Certificate of Appropriateness (COA) through the Administrative Bypass process if they meet the criteria listed below. If they do not meet the criteria, the application will be forwarded to the Historic District Commission for a full review.

.1 Door Replacement*. A deteriorated door that is not repairable may be replaced in-kind, meaning a door that matches the original in materials and design. A non-original door may be replaced with a wood door that is appropriate design for the house and the historic district.*

.2 Screen Door Replacement. *Screen doors shall be retained and repaired when necessary. Any replacement screen door shall match the historic screen door and shall be built to mirror the panels and sash divisions of the door that it covers.*

.3 Storm Doors and Screens*. Storm doors constructed of wood or metal that do not obscure or damage the existing door and frame. Storm doors required to be painted, stained, or have a baked-enamel finish color compatible with the color of the existing door. If storm and screen doors are installed where none existed originally, select a "full vision panel" design to allow the original door to be seen. (Additional information on storm windows and doors is provided in Section 3.17, Utilities and Energy Retrofit).*

3.14 Guidelines for Doors

A review by the Historic District Commission will use the following criteria for the issuance of a Certificate of Appropriateness (COA):

.1 Retain and Preserve Original Doors. *Retain and preserve original doors and door surrounds including frames, glazing, panels, sidelights, fanlights, surrounds, thresholds, and hardware on front doors and side doors visible from the street.*

.2 Replace Only Deteriorated Features. *If replacement of a deteriorated door feature or details is necessary, replace only the deteriorated feature in-kind rather than the entire unit.*

.3 Retain and Preserve Transoms and Sidelights. *Transoms and sidelights should be retained and preserved. Avoid altering transoms and sidelights as it distorts the strong vertical proportions of the windows and doors and changes the character of the residence.*

.4 Retain Historic Glass*. Retain original glass in historic doors. Bubbles and waves give old glass its distinctive look and add to the historic character of the house.*

.5 Glass Variations

a. *Privacy glass may only be located in the rear or on the side of the structure, where not visible from the front. Smoked or tinted glass is not appropriate for use in historic structures.*
b. *Beveled glass in doors is allowed as long as it is compatible with style of the historic building and the original configuration of window panes remains.*
c. *Colored glass may be used in transoms and sidelights if supported by historical documentation or compatible with the architectural style.*

.6 Wood Doors. *Wood doors are required unless there is documentation that other materials were historically used on a particular structure. Keep wood doors appropriately stained or painted to protect from weather.*

.7 Replacement Doors. *Replacement doors on a historic structure are to be wood and in appropriate design, size and details in keeping with the style of the house. Installation of steel doors on the front of a historic structure is prohibited. Aluminum clad doors are permissible on rear of the structure upon review on a case-by-case basis.*

.8 Preserve Original Openings. *Do not create new openings in the front or side façades of historic structures. Do not enlarge or diminish existing openings to fit stock door sizes. If new openings are necessary to meet code requirements, they shall be compatible with historic doors for that structure in proportion, shape, location, pattern, size, materials, and details.*

.9 Materials. *Wood is allowable for in-kind replacement of doors. Fiberglass and aluminum–clad doors can be considered on non-contributing resources and on rear elevations of historic structures when not visible from the front right-of-way. Vinyl is prohibited for historic and non-contributing structures.*

.10 New Primary and Secondary Accessory Structures*. Doors in new construction shall be similar to those in adjacent historic structures in terms of size, profile, design, proportions, and material. Aluminum clad and fiberglass doors with limited or no visibility from the front façade can be considered on a case-by-case basis.*

.11 Additions. *For construction of additions, choose doors that match the original structure. Aluminum-clad wood doors are permissible for use in additions that are not visible from the front right-of-way. Fiberglass doors can be considered on a case-by-case basis.*

Staff Comments

This second front door entrance is probably not original to the house. This secondary entrance is not typical of structures in the Miller Historic District. The removal of the door for better internal programming would not be detrimental to the house and in fact would bring the structure more in line with a typical structure in the Miller Historic District.

The Commission would need to determine if removal of this non-original secondary door on the front porch would be compatible with this structure and the surrounding Miller Historic District.

Commission Action: Consideration of approval, rejection, amendment, and/or postponement of the Certificate of Appropriateness (HD 23-19) for the property located at 904 Classen Boulevard for the following proposed work:
c. the removal of secondary front door on front porch;

Request – d. the addition of wooden brackets on gables;
Description
The applicant wishes to improve the appearance of his house by adding wooden "knee" type braces under the gables like seen on some bungalow structures in the Miller Historic District. He is proposing simple wooden brackets as shown in the submitted picture and specification sheet.

Reference - Historic District Ordinance
36-535.c.2.g.3. *Reviewing non-contributing structures. Non-contributing structures should be controlled only to the degree necessary to make them compatible with the general atmosphere of any district with regard to exterior alteration, additions, signs, site work and related activities.*

Reference - Preservation Guidelines
Exterior Walls
3.1 Standards for Administrative Bypass
The following items can receive a Certificate of Appropriateness (COA) through the Administrative Bypass process if they meet the criteria listed. If they do not meet the criteria, the application will be forwarded to the Historic District Commission for a full review.

.1 Removal of wall materials. Removal of non-original or contemporary synthetic materials to reveal existing historic materials is permitted. If existing historic siding material underneath the non-original or contemporary synthetic materials has been removed, the reinstallation of appropriate/compatible material requires review by the Historic District Commission.

3.2 Guidelines
A review by the Historic District Commission will use the following criteria for the issuance of a Certificate of Appropriateness (COA):

.1 Preserve Original Walls. Retain and preserve exterior walls that contribute to the overall historic form and character of a building, including functional and decorative features and details.

.2 Retain Original Building Materials. Retain and preserve exterior wall materials that contribute to the overall historic character of a building.

.3 Replace Only Deteriorated Portions. If replacement of a deteriorated wall or feature is necessary, replace only the deteriorated portion in-kind rather than the entire feature. Match the original in material, design, dimension, detail, texture, and pattern. Compatible substitute materials can be considered if in-kind replacement material are not available or feasible.

.4 Avoid Covering Original Materials. Building materials and decorative elements are important character-defining components of historic buildings. It is not appropriate to remove or cover any wall material or detail with coatings or contemporary substitute materials. Vinyl and aluminum siding is not appropriate for use in historic districts.

.5 Replace Missing Features. When replacing an exterior wall or feature, replace it with a new wall or feature based on accurate documentation of the original or a new design that is compatible with the historic character of the building and the district. Compatible substitute materials can be considered if in-kind replacement material are not available or feasible.

.6 Avoid False Historical Appearances. Features or details of walls and fences that are introduced to a property shall reflect its style, period, and design. Fences and walls features shall not create a false historical appearance by reflecting other time periods, styles, or geographic regions of the country.

.7 Substitute Materials. Cement fiberboard (e.g. Hardiplank® siding) will be considered on a case-by-case basis. Exterior insulating and finish systems (EIFS) will not be considered for use in historic structures.

Staff Comments

There is no evidence that this structure has previously had wooden brackets under the gables. Wooden “knee” braces are a feature seen in the Miller Historic District on some Craftsman bungalow houses. However, the Preservation Guidelines caution against adding features to a house that might create a false sense of history.

The Commission would need to determine if the addition of wooden brackets on this structure would create a false sense of history on this non-contributing structure and if it would be impactful to the District as a whole.

Commission Action: Consideration of approval, rejection, amendment, and/or postponement of the Certificate of Appropriateness (HD 23-19) for the property located at 904 Classen Boulevard for the following proposed work:

d. the addition of wooden brackets on gables;

Request – e. installation of new front door and side lights.

Description

The applicant wishes to replace the front door and side lights as a result of his storm-anxiety dog breaking the side lights. He does not mind replacing the front door with wood, but does not wish to install window panes where the dog would be able to reach them again during a storm. The applicant is proposing a craftsman style door with small lights at the top, as illustrated in the submitted picture and specification sheet.

Reference - Historic District Ordinance

36-535.c.2.g.3. *Reviewing non-contributing structures. Non-contributing structures should be controlled only to the degree necessary to make them compatible with the general atmosphere of any district with regard to exterior alteration, additions, signs, site work and related activities.*

Reference - Preservation Guidelines

Doors

3.13 Standards for Administrative Bypass

The following items can receive a Certificate of Appropriateness (COA) through the Administrative Bypass process if they meet the criteria listed below. If they do not meet the criteria, the application will be forwarded to the Historic District Commission for a full review.

.1 Door Replacement*. A deteriorated door that is not repairable may be replaced in-kind, meaning a door that matches the original in materials and design. A non-original door may be replaced with a wood door that is appropriate design for the house and the historic district.*

.2 Screen Door Replacement. *Screen doors shall be retained and repaired when necessary. Any replacement screen door shall match the historic screen door and shall be built to mirror the panels and sash divisions of the door that it covers.*

.3 Storm Doors and Screens*. Storm doors constructed of wood or metal that do not obscure or damage the existing door and frame. Storm doors required to be painted, stained, or have a baked-enamel finish color compatible with the color of the existing door. If storm and screen doors are installed where none existed originally, select a "full vision panel" design to allow the original door to be seen. (Additional information on storm windows and doors is provided in Section 3.17, Utilities and Energy Retrofit).*

3.14 Guidelines

A review by the Historic District Commission will use the following criteria for the issuance of a Certificate of Appropriateness (COA):

.1 Retain and Preserve Original Doors. *Retain and preserve original doors and door surrounds including frames, glazing, panels, sidelights, fanlights, surrounds, thresholds, and hardware on front doors and side doors visible from the street.*

.2 Replace Only Deteriorated Features. *If replacement of a deteriorated door feature or details is necessary, replace only the deteriorated feature in-kind rather than the entire unit.*

.3 Retain and Preserve Transoms and Sidelights. *Transoms and sidelights should be retained and preserved. Avoid altering transoms and sidelights as it distorts the strong vertical proportions of the windows and doors and changes the character of the residence.*

.4 Retain Historic Glass*. Retain original glass in historic doors. Bubbles and waves give old glass its distinctive look and add to the historic character of the house.*

.5 Glass Variations

d. Privacy glass may only be located in the rear or on the side of the structure, where not visible from the front. Smoked or tinted glass is not appropriate for use in historic structures.

e. Beveled glass in doors is allowed as long as it is compatible with style of the historic building and the original configuration of window panes remains.

f. Colored glass may be used in transoms and sidelights if supported by historical documentation or compatible with the architectural style.

.6 Wood Doors. *Wood doors are required unless there is documentation that other materials were historically used on a particular structure. Keep wood doors appropriately stained or painted to protect from weather.*

.7 Replacement Doors. *Replacement doors on a historic structure are to be wood and in appropriate design, size and details in keeping with the style of the house. Installation of steel doors on the front of a historic structure is prohibited. Aluminum clad doors are permissible on rear of the structure upon review on a case-by-case basis.*

.8 Preserve Original Openings. *Do not create new openings in the front or side façades of historic structures. Do not enlarge or diminish existing openings to fit stock door sizes. If new openings are necessary to meet code requirements, they shall be compatible with historic doors for that structure in proportion, shape, location, pattern, size, materials, and details.*

.9 Materials. *Wood is allowable for in-kind replacement of doors. Fiberglass and aluminum–clad doors can be considered on non-contributing resources and on rear elevations of historic structures when not visible from the front right-of-way. Vinyl is prohibited for historic and non-contributing structures.*

.10 New Primary and Secondary Accessory Structures*. Doors in new construction shall be similar to those in adjacent historic structures in terms of size, profile, design, proportions, and material. Aluminum clad and fiberglass doors with limited or no visibility from the front façade can be considered on a case-by-case basis.*

.11 Additions. *For construction of additions, choose doors that match the original structure. Aluminum-clad wood doors are permissible for use in additions that are not visible from the front right-of-way. Fiberglass doors can be considered on a case-by-case basis.*

Staff Comments

As indicated by the *Guidelines,* preservation of the original doors is preferred. However, since this is a non-contributing structure and the applicant is trying to protect his pet, it seems reasonable to let him replace the front door and sidelights with a different placement of windows panes.

However, the Commission would need to determine if the replacement of the existing front door and sidelights with a wood door of different design would be compatible with the house and the District as a whole.

Commission Action: Consideration of approval, rejection, amendment, and/or postponement of the Certificate of Appropriateness (HD 23-19) for the property located at 904 Classen Boulevard for the following proposed work:

e. installation of new front door and side lights.

The City of Norman Historic District Commission
FOR CERTIFICATE OF APPROPRIATENESS (COA)

Staff Only Use
HD Case #: 23-20
Date: 4-28-23
Received by: A Starr

23-19 (Admin Bypass)

Note: *Any relevant building permits must be applied for and paid for separately in the Planning and Community Development Office. 405-366-5311*

Address of Proposed Work: 904 CLASSEN BLVD

Applicant's Contact Information:

Applicant's Name: WILLIAM RYAN HAUSER
Applicant's Phone Number(s): 405 473-6388
Applicant's E-mail address: TENGWAR@ME.COM
Applicant's Address: 904 CLASSEN BLVD.
Applicant's relationship to owner: ☐ Contractor ☐ Engineer ☐ Architect

Owner's Contact Information: (if different than applicant)

Owner's Name: WILLIAM RYAN HAUSER
Owner's Phone Number(s): 405 473-6388
Owner's E-mail: TENGWAR@ME.COM

Project(s) proposed: (List each item of proposed work requested. Work not listed cannot be reviewed.)

1) (1) WINDOW REPLACEMENT ALUMINUM CASED WOODEN WINDOWS
2) (2) ALTERATION TO FRONT PORCH + ENCLOSED FRONT PORCH + REMOVE SIDE DOOR (EXPOSE OLD COLUMNS) (3) REPLACE FRONT DOOR
3) REPLACE BACK ENTRANCE STAIRS AND ADD PERGOLA (WOOD less than 108 sq ft) - Admin Bypass
4) (4) ADDING WOODEN BRACKETS TO GABLES - on front Gable

Supporting documents such as project descriptions, drawings and pictures are required see checklist page for requirements.

Authorization: I hereby certify that all statements contained within this application, attached documents and transmitted exhibits are true to the best of my knowledge and belief. In the event this proposal is approved and begun, I agree to complete the changes in accordance with the approved plans and to follow all City of Norman regulations for such construction. I authorize the City of Norman to enter the property for the purpose of observing and photographing the project for the presentations and to ensure consistency between the approved proposal and the completed project. I understand that no changes to approved plans are permitted without prior approval from the Historic Preservation Commission or Historic Preservation Officer.

Property Owner's Signature: [signature] **Date:** 4/28/23

☐ (If applicable): I authorize my representative to speak in matters regarding this application. Any agreement made by my representative regarding this proposal will be binding upon me.

Authorized Representative's Printed Name:

Authorized Representative's Signature: **Date:**

3404 Belt Line Road
Farmers Branch, TX 75234

Proposed Alterations

Keep original column tops - repair

Build back brick bases on columns

Install brick watertable

Install new door and sidelights

Install aluminium-clad windows

Product Selection Guide
- Size and Performance Data PFH-2
- Features and Options PFH-3

Glazing Performance PFH-4
Grilles PFH-6
- Grille Patterns PFH-7

Size and Measurement Guidelines PFH-8
Design Data PFH-9
Detailed Product Descriptions
- Clad PFH-10
- Wood PFH-11

Unit Sections/Installation Details
- Clad PFH-12
- Wood PFH-15

Precision-Fit windows are intended for pocket installation into an existing old window frame still in place. The existing sashes of the old double- or single-hung window are removed by cutting the balance chords and removing the interior stop and parting stops. The new window is placed against the exterior stop from the interior. The interior stops can then be re-installed.

See installation instructions for details

For masonry installation, see the standard Double-Hung product section.

21 WINDOWS

WOOD CLAD, SINGLE HUNG, SIX PANEL UPPER GRID

	Clad LX	Wood LX	Clad SE
Sizes			
Made to order in 1/4" increments	●	●	●
Cottage Sash or Equal Sash Split	●	●	●
Variable sash split	●	●	●
Performance			
Meets or Exceeds AAMA/WDMA Ratings	H-CW40 - CW50 Hallmark Certified	H-CW40 - CW-50 Hallmark Certified	H-CW40 - CW50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.11	0.11	0.11
Water Resistance	6.0-6.9 psf	6.0-6.9 psf	6.0-6.9 psf
Design Pressure	40-50 psf	40-50 psf	40-50 psf

Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested(1)	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
Clad LX or SE Double-Hung	**With Integral Grilles**						
	45" x 65"	11/16"	2.5mm	2.5mm	–	27	25
	45" x 65"	11/16"	3mm	3mm	–	30	26
	Without Grilles						
	45" x 65"	11/16"	2.5mm	2.5mm	–	26	22
	45" x 65"	11/16"	3mm	3mm	–	28	24

(–) = Not Available

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. See Design Data pages in this section for specific product performance class and grade values.

(2) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.

Pella® Reserve™ Traditional Precision-Fit Hung Window

Features and Options

Standard	Options / Upgrades
Glazing	
Glazing Type	
Dual-Pane Insulating Glass	–
Insulated Glass Options/Low-E Types	
Advanced Low-E	SunDefense™ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	Clear (no Low-E coating)
Additional Glass Options	
Annealed Glass	Tempered Glass
	Obscure Glass(1)
	Tinted Glass (Bronze, Gray and Green)
Gas Fill/High Altitude	
Argon	High altitude
Exterior (1)	
EnduraClad® protective finish	EnduraClad Plus protective finish
Factory Primed Wood Sash (pine, Aluminum-clad frame)	Unfinished Mahogany Wood (LX only)
Interior	
Wood Types	
Pine	Mahogany (clad and wood LX only), Douglas Fir (clad LX only)
Interior Finish (1)	
Unfinished Wood	Factory primed(1), Factory prefinished paint(1), Factory prefinished stain(1)
Hardware	
Hardware Finish	
Champagne, White, Brown or Matte Black	Satin Brass, Satin Nickel, Oil-Rubbed Bronze
Sash Locks	
Cam-action lock	Historical spoon-style lock (surface mounted)
Tilt-Wash Cleaning	
Tilt to interior on both sashes	–
Other Hardware	
–	Sash lifts
Grilles	
Integral Light Technology® Grilles	
–	Traditional, Prairie, Top Row, Cross, New England, Victorian, Diamond, Custom
Grilles-Between-the-Glass	
–	Traditional, Prairie, Top Row(1), Cross or Custom-Equally Divided
Screens	
–	Full-Height or Half-height InView™ screens

(1) Contact your local Pella sales representative for current color options.

Pella® Reserve™ Traditional Precision-Fit Hung Window

Glazing Performance - Total unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S. Zone				Canada[2] ER	Canada[2] Zone
										N	NC	SC	S		CA
Vent - Aluminum-Clad Exteriors															
11/16"	Clear IG	PEL-N-233-00601-00001	2.5	2.5	air	0.46	0.61	0.63	44						
	with grilles-between-the-glass	PEL-N-233-00602-00001				0.46	0.54	0.56	44						
	with integral grilles	PEL-N-233-00603-00001				0.46	0.54	0.56	44						
11/16"	Clear IG	PEL-N-233-00605-00001	3	3	air	0.47	0.59	0.62	43						
	with grilles-between-the-glass	PEL-N-233-00606-00001				0.47	0.53	0.55	43						
	with integral grilles	PEL-N-233-00607-00001				0.47	0.53	0.55	43						
11/16"	Advanced Low-E IG	PEL-N-233-00637-00001	2.5	2.5	argon	0.29	0.28	0.54	59		NC				
	with grilles-between-the-glass	PEL-N-233-00638-00001				0.29	0.26	0.48	59		NC				
	with integral grilles	PEL-N-233-00639-00001				0.30	0.26	0.48	59		NC				
11/16"	Advanced Low-E IG	PEL-N-233-00641-00001	3	3	argon	0.29	0.28	0.53	58		NC				
	with grilles-between-the-glass	PEL-N-233-00642-00001				0.29	0.26	0.47	58		NC				
	with integral grilles	PEL-N-233-00643-00001				0.30	0.26	0.47	58		NC				
11/16"	SunDefense™ Low-E IG	PEL-N-233-00685-00001	2.5	2.5	argon	0.29	0.21	0.50	59		NC	SC	S		
	with grilles-between-the-glass	PEL-N-233-00686-00001				0.29	0.19	0.44	59		NC	SC	S		
	with integral grilles	PEL-N-233-00687-00001				0.29	0.19	0.44	59		NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-233-00689-00001	3	3	argon	0.29	0.21	0.49	58		NC	SC	S		
	with grilles-between-the-glass	PEL-N-233-00690-00001				0.29	0.19	0.43	58		NC	SC	S		
	with integral grilles	PEL-N-233-00691-00001				0.29	0.19	0.43	58		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-233-00661-00001	2.5	2.5	argon	0.25	0.28	0.52	48	N	NC				
	with grilles-between-the-glass	PEL-N-233-00662-00001				0.25	0.25	0.47	48	N	NC	SC	S		
	with integral grilles	PEL-N-233-00663-00001				0.26	0.25	0.47	48	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-233-00665-00001	3	3	argon	0.25	0.28	0.52	47	N	NC				
	with grilles-between-the-glass	PEL-N-233-00666-00001				0.25	0.25	0.46	47	N	NC	SC	S		
	with integral grilles	PEL-N-233-00667-00001				0.26	0.25	0.46	47	N	NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-233-00613-00001	2.5	2.5	argon	0.30	0.53	0.61	58	N					
	with grilles-between-the-glass	PEL-N-233-00614-00001				0.30	0.48	0.54	58	N					
	with integral grilles	PEL-N-233-00615-00001				0.31	0.48	0.54	58						
11/16"	NaturalSun Low-E IG	PEL-N-233-00617-00001	3	3	argon	0.30	0.52	0.60	57	N					
	with grilles-between-the-glass	PEL-N-233-00618-00001				0.30	0.47	0.53	57	N					
	with integral grilles	PEL-N-233-00619-00001				0.31	0.47	0.53	57						
Tinted Glazing															
11/16"	Bronze Advanced Low-E IG	PEL-N-233-00721-00002	5	3	argon	0.30	0.25	0.34	57		NC	SC	S		
	with grilles-between-the-glass	PEL-N-233-00722-00002				0.31	0.23	0.30	57				S		
	with integral grilles	PEL-N-233-00723-00002				0.31	0.23	0.30	57				S		
11/16"	Gray Advanced Low-E IG	PEL-N-233-00721-00003	5	3	argon	0.30	0.23	0.30	57		NC	SC	S		
	with grilles-between-the-glass	PEL-N-233-00722-00003				0.31	0.21	0.26	57				S		
	with integral grilles	PEL-N-233-00723-00003				0.31	0.21	0.26	57				S		
11/16"	Green Advanced Low-E IG	PEL-N-233-00721-00004	5	3	argon	0.30	0.29	0.47	57		NC				
	with grilles-between-the-glass	PEL-N-233-00722-00004				0.31	0.26	0.41	57						
	with integral grilles	PEL-N-233-00723-00004				0.31	0.26	0.41	57						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
CR = Condensation Resistance
ER = Canadian Energy Rating

Climate Zones

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.

Pella® Reserve™ Traditional Precision-Fit Hung Window

Glazing Performance - Total unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S. Zone				Canada[2] ER	Canada[2] Zone
										N	NC	SC	S		CA
High Altitude Glazing															
11/16"	Advanced Low-E IG	PEL-N-233-00649-00001	2.5	2.5	air	0.33	0.29	0.54	55						
	with grilles-between-the-glass	PEL-N-233-00650-00001				0.33	0.26	0.48	55						
	with integral grilles	PEL-N-233-00651-00001				0.33	0.26	0.48	55						
11/16"	Advanced Low-E IG	PEL-N-233-00653-00001	3	3	air	0.33	0.29	0.53	54						
	with grilles-between-the-glass	PEL-N-233-00654-00001				0.33	0.26	0.47	54						
	with integral grilles	PEL-N-233-00655-00001				0.34	0.26	0.47	54						
11/16"	SunDefense™ Low-E IG	PEL-N-233-00697-00001	2.5	2.5	air	0.32	0.21	0.50	56				S		
	with grilles-between-the-glass	PEL-N-233-00698-00001				0.32	0.19	0.44	56				S		
	with integral grilles	PEL-N-233-00699-00001				0.33	0.19	0.44	56				S		
11/16"	SunDefense™ Low-E IG	PEL-N-233-00701-00001	3	3	air	0.32	0.21	0.49	55				S		
	with grilles-between-the-glass	PEL-N-233-00702-00001				0.32	0.19	0.44	55				S		
	with integral grilles	PEL-N-233-00703-00001				0.33	0.19	0.44	55				S		
11/16"	AdvancedComfort Low-E IG	PEL-N-233-00673-00001	2.5	2.5	air	0.28	0.28	0.52	44		NC				
	with grilles-between-the-glass	PEL-N-233-00674-00001				0.28	0.25	0.47	44		NC	SC	S		
	with integral grilles	PEL-N-233-00675-00001				0.28	0.25	0.47	44		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-233-00677-00001	3	3	air	0.28	0.28	0.52	43		NC				
	with grilles-between-the-glass	PEL-N-233-00678-00001				0.28	0.25	0.46	43		NC	SC	S		
	with integral grilles	PEL-N-233-00679-00001				0.29	0.25	0.46	43		NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-233-00625-00001	2.5	2.5	air	0.33	0.53	0.61	55						
	with grilles-between-the-glass	PEL-N-233-00626-00001				0.33	0.48	0.54	55						
	with integral grilles	PEL-N-233-00627-00001				0.34	0.48	0.54	55						
11/16"	NaturalSun Low-E IG	PEL-N-233-00629-00001	3	3	air	0.34	0.52	0.60	54						
	with grilles-between-the-glass	PEL-N-233-00630-00001				0.34	0.47	0.53	54						
	with integral grilles	PEL-N-233-00631-00001				0.34	0.47	0.53	54						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
CR = Condensation Resistance
ER = Canadian Energy Rating

Climate Zones

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

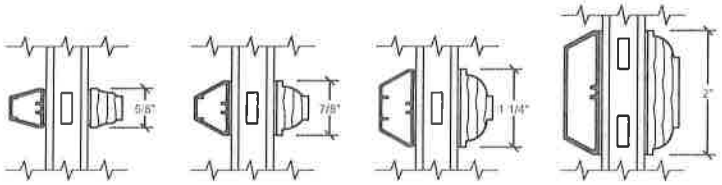
(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.

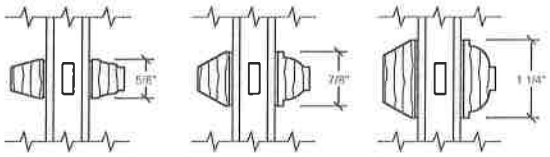
Grille Profiles

Traditional Style Collection - Integral Light Technology ®

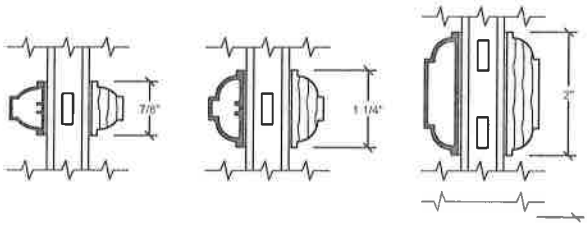
Putty Glaze and Ogee Grilles
Clad Exterior - Wood Interior



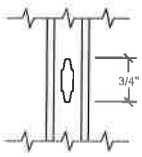
Putty Glaze and Ogee Grilles
Wood Exterior - Wood Interior



Ogee Grilles
Clad Exterior - Wood Interior



Grilles-Between-the-Glass



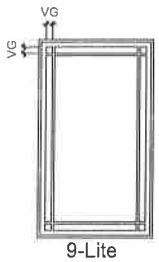
3/4"
Contoured

Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.

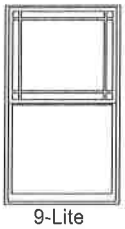
Grille Patterns

Integral Light Technology® Grilles

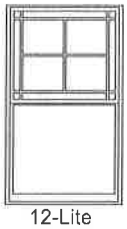
Prairie Lite Patterns



9-Lite
(Fixed Units)



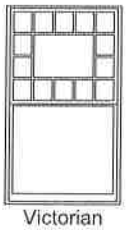
9-Lite



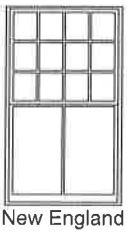
12-Lite

Standard corner lite dimension for Prairie patterns = 2-1/2" VG.
Available in transoms ≥ 1'3" height and width.
Available in all standard and special sizes.

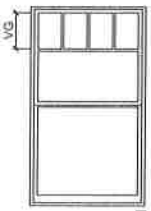
Other Available Patterns



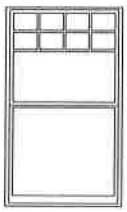
Victorian

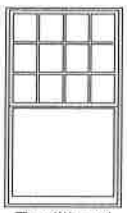


New England



Top Row

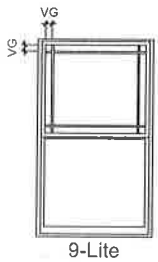




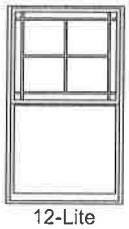
Traditional

VG = Visible Glass
Lite dimensions noted can vary.
For size and pattern availability contact your local Pella sales representative.

Grilles-Between-the-Glass

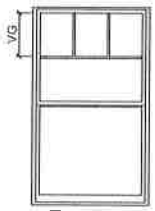


9-Lite
Prairie



12-Lite
Prairie

Cross



Top Row

Prairie

- Standard corner lite dimension for Prairie patterns = 2-1/2" VG.
- Available in transoms ≥ 1'3" height and width.

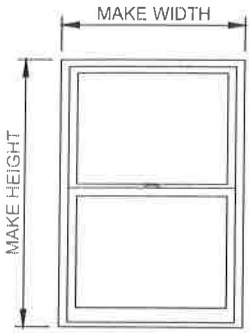
Cross

- Minimum DH frame height 35".
- Horizontal bar will be at 1/2" of the VG height of the top sash.

Top Row

- Minimum DH frame height 35".
- Horizontal bar will be at 1/2" of the VG height of the top sash.

For traditional patterns, see size tables.



Interior view shown.

Refer to unit cross sections in this section for Make Width and Make Height dimensions.

Make Dimensions

Minimum

13-1/2" W x 23-3/4" H

(343 x 603)

Maximum

48" W x 84" H

(1 219 x 2 134)

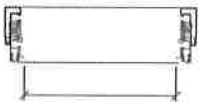
Make Width (MW) = A – 1/2" (rounded to the nearest 1/4")

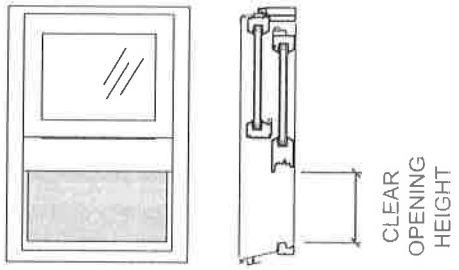
Make Height (MH) = B – 1/2" (rounded to the nearest 1/4")

Cottage Sash windows must be between ≥ 40-1/2" and ≤ 71-1/2" make height.

Standard DH - Equal Sash Only - Standard Rail/Stile widths

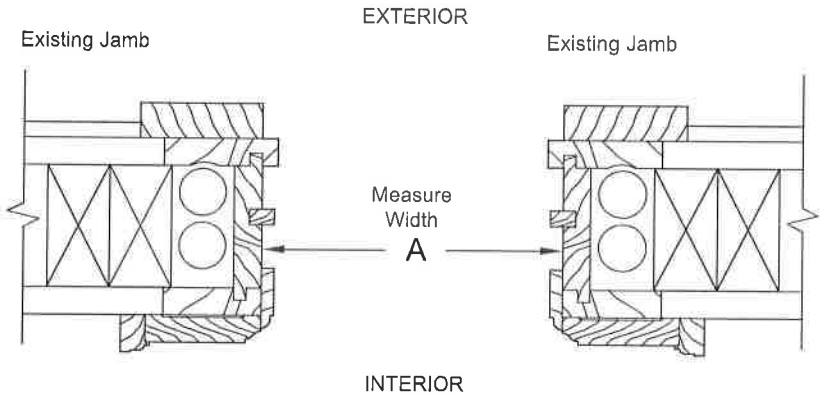
	Vent Units
Visible Glass	Width = Frame - 5.647"
	Height = ((Frame - 8.6875) ÷ 2) - .75"
Actual Glass	Width = Frame - 4.375"
	Height = ((Frame - 5.983) ÷ 2) - .75
Clear Opening	COW = Frame Width - 3.6875"
	(Frame Height ÷ 2) - 5.1875"
Vent Area	(COW x COH) ÷ 144

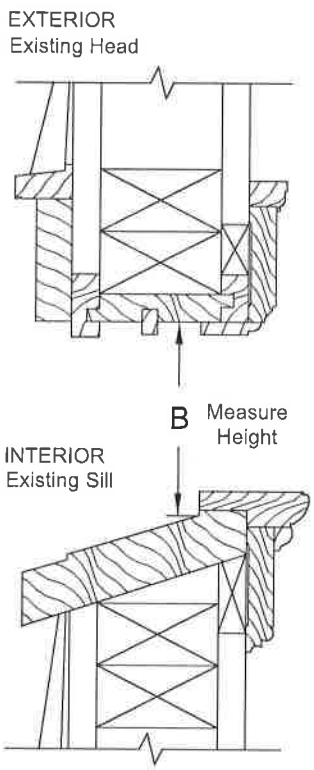




Shaded portion shows vent area.

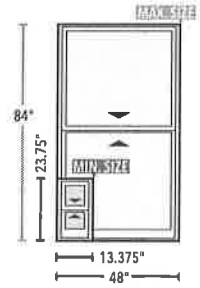
Measurement guidelines





Make Size Ranges

Vent-Equal



Make Width = Opening width - 1/2" (rounded to the nearest 1/4"

Make Height = Opening width - 1/2" (rounded to the nearest 1/4"

Cottage and custom sash splits also available.

Cottage Sash windows must be between ≥ 40-1/2" and ≤ 71-1/2" make height.

Companion fixed windows available. See Precision Fit Casement window offering for matching glass sightlines, or see the Fixed Frame Direct Set offering.

CW40

CW45

CW50-Clad / CW45-Wood

Check all applicable local codes for emergency egress requirements.

E Meets min. clear opening 24" H x 20" W and 5.7 ft².

E1 Meets min. clear opening 24" H x 20" W and 5.0 ft².

Standard Sizes

Vent - Equal Sash

	21	23.5	25	27.5	29	29.5	31.5	33	35.5	37	39.5	41	41.5	45	48
84			E1	E1	E	E	E	E	E	E	E	E	E	E	E
77			E1	E1	E	E	E	E	E	E	E	E	E	E	E
71.5				E1	E1	E1	E	E	E	E	E	E	E	E	E
71					E1	E1	E	E	E	E	E	E	E	E	E
65.5					E1	E1	E1	E	E	E	E	E	E	E	E
65					E1	E1	E1	E	E	E	E	E	E	E	E
61.5							E1	E	E	E	E	E	E	E	E
59.5							E1	E	E	E	E	E	E	E	E
59								E1	E	E	E	E	E	E	E
57.5									E1	E	E	E	E	E	E
57															
53.5															
53															
51.5															
47.5															
47															
45.5															
41.5															
41															
37.5															
35.5															
35															

Standard sizes shown, unless noted otherwise. Special sizes are available in 1/4" increments.

Maximum performance when glazed with the appropriate glass. For special size units, use the performance class and grade for the next larger standard size unit.

Pella® Reserve™ Traditional Precision-Fit Hung Window

Detailed Product Description - Aluminum-Clad Exterior

Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany] [douglas fir].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Pocket depth is 3-1/4" (83mm).
- Vinyl jamb liner, includes wood/clad inserts.

Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [LX: [clear pine] [mahogany] [douglas fir]] [SE: clear pine].
- Exterior surfaces are clad with extruded aluminum butt-jointed at all corners of the sash with through-stile construction and sealed.
- Sash thickness is 1-7/8" (47mm).
- Sash exterior profile is [ogee] [putty glaze], interior profile is ogee.
- [Double-Hung: Upper sash has surface-mounted wash locks].
- Lower sash has concealed wash locks in lower check rail.
- Sashes tilt for easy cleaning.

Weatherstripping

- Water-stop Santoprene-wrapped foam at head and sill.
- Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced Low-E] [SunDefense™ Low-E] [AdvancedComfort Low-E] [NaturalSun Low-E] with argon]] [[bronze] [gray] [green] Advanced Low-E with argon].

Exterior

- Aluminum clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
  - Color is [standard] [feature] [custom][2]

– or –

- Aluminum clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.
  - Color is [standard] [feature] [custom][2]

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [paint] [stain[2]]].

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard] [historic spoon-style]. Two sash locks on units with make width 37" and greater.
- Optional Sash lift furnished for field installation. Two lifts on units with make width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel] [Oil-rubbed Bronze] [Distressed Bronze] [Distressed Nickel].

Optional Products

Grilles

- Integral Light Technology® grilles
  - Interior grilles are [5/8"] [7/8"] [1-1/4"] ogee profile that are solid [LX: [pine] [mahogany] [douglas fir]] [SE: pine]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain[2]]].
  - Exterior grilles are [5/8" putty glaze profile] [7/8" [putty glaze] [ogee] profile] [1-1/4" [putty glaze] [ogee] profile] that are extruded aluminum.
  - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
  - Insulating glass contains non-glare spacer between the panes of glass.
  - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.

– or –

- Grilles-Between-the-Glass[3]
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [9-Lite Prairie] [Cross] [Top Row]
  - Interior color is [White] [Tan[4]] [Brown[4]] [Putty[4]] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
  - Exterior color[5] is [standard[2]].

Screens

- InView™ Screens
  - [Half-Size] [Full-Size] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [extruded] [standard] aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Spreader bar placed on units > 37" width or 64-1/4" make height.
  - Screen frame finish is baked enamel, color to match window cladding.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Low-E coated insulating glass is argon-filled (except high altitude). All other insulating glass (including high altitude Low-E) is air-filled.

(2) Contact your local Pella sales representative for current color options.

(3) Available in clear or Low-E insulating glass only.

(4) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.

Pella® Reserve™ Traditional Precision-Fit Hung Window

Detailed Product Description - Wood Exterior Sash

Frame

- Select softwood, water-repellent, preservative-treated with EnduraGuard® triple wood protection in accordance with WDMA I.S.-4. EnduraGuard triple protection formula includes water-repellency, three active fungicides and an insecticide applied to the frame.
- Interior exposed surfaces are [pine] [mahogany].
- Exterior surfaces are clad with aluminum.
- Pocket depth is 3-1/4" (83mm).
- Vinyl Jamb liner includes wood / clad inserts.

Sash

- Select softwood, water-repellent, preservative-treated with EnduraGuard triple wood protection in accordance with WDMA I.S.-4. EnduraGuard triple protection formula includes water-repellency, three active fungicides and an insecticide applied to the sash.
- Interior exposed surfaces are [pine] [mahogany].
- Exterior surfaces are [pine] [mahogany].
- Sash thickness is 1-13/16" (46mm).
- Sash exterior profile is putty glaze, interior profile is ogee.
- Upper sash has surface-mounted wash locks.
- Lower sash has concealed wash locks in lower check rail.
- Sashes tilt for easy cleaning.

Weatherstripping

- Water-stop Santoprene-wrapped foam at head and sill.
- Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Vinyl-wrapped foam inserted into jamb liner or jamb liner components to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [Advanced Low-E] [SunDefense™ Low-E] [AdvancedComfort Low-E] [NaturalSun Low-E] with argon]] [[bronze] [gray] [green] Advanced Low-E with argon].

Exterior

- [Pine: factory primed with one coat acrylic latex] [Mahogany: [factory primed with one coat acrylic latex] [Unfinished, ready for site finishing]].

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [White] [Linen White] [Bright White] [stain[2]]].

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard] [historic spoon-style]. Two sash locks on units with make width 37" and greater.
- Optional Sash lift furnished for field installation. Two lifts on units with make width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [satin brass] [satin nickel] [oil-rubbed bronze] [distressed bronze] [distressed nickel].

Optional Products

Grilles

- Integral Light Technology® grilles
  - Interior grilles are [5/8"] [7/8"] [1-1/4"] ogee profile that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain[2]]].
  - Exterior grilles are [5/8"] [7/8"] [1-1/4"] putty glaze profile [pine] [mahogany], water repellent, preservative-treated in accordance with WDMA I.S.-4, and are factory primed.
  - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
  - Insulating glass contains non-glare spacer between the panes of glass.
  - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.

- or -

- Grilles-Between-the-Glass[3]
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [9-Lite Prairie] [Cross] [Top Row]
  - Interior color is [White] [Tan[4]] [Brown[4]] [Putty[4]] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
  - Exterior color[5] is [standard[2]].

Screens

- InView™ Screens
  - [Half-Size] [Full-Size] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [extruded] [standard] aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Spreader bar placed on units > 37" width or 64-1/4" make height.
  - Screen frame finish is baked enamel, color to match window cladding.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Low-E coated insulating glass is argon-filled (except high altitude). All other insulating glass (including high altitude Low-E) is air-filled.

(2) Contact your local Pella sales representative for current color options.

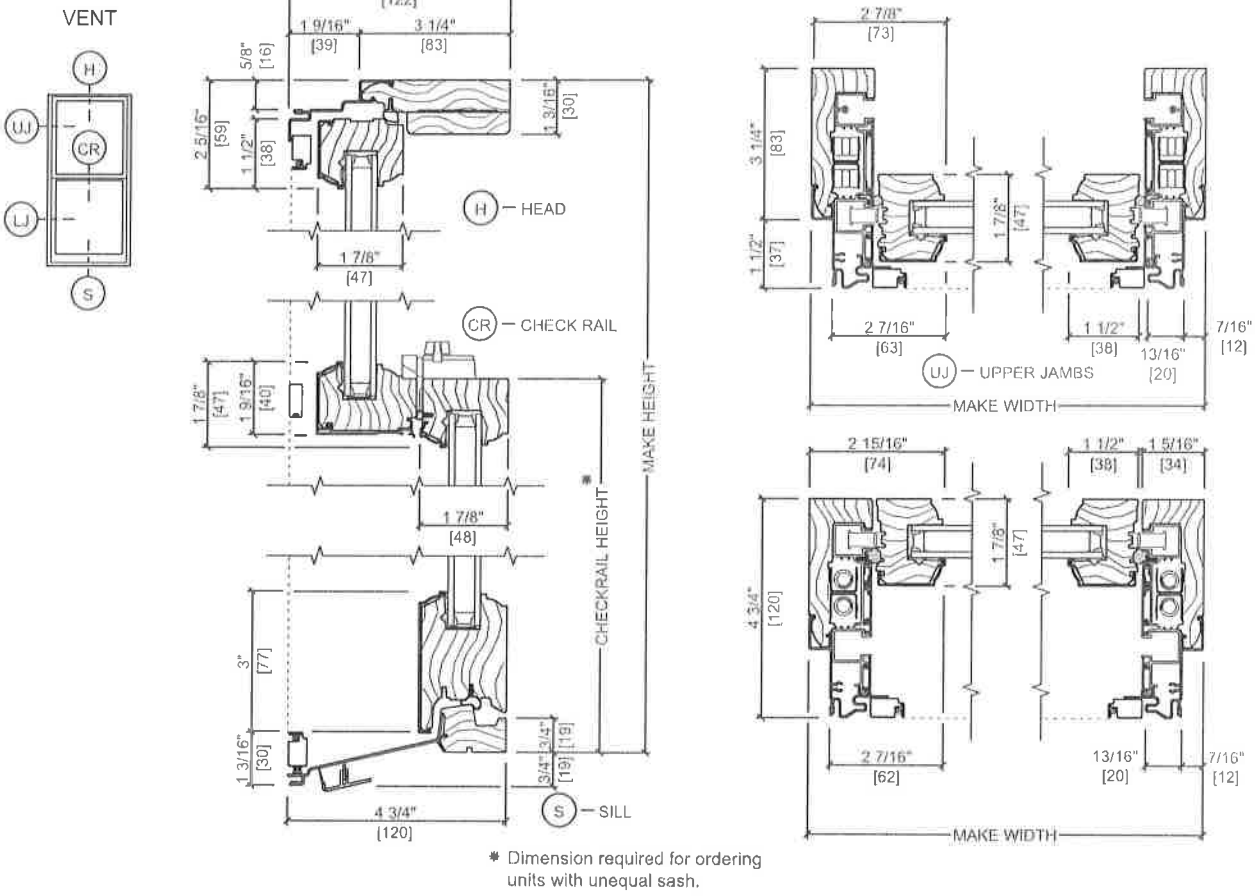
(3) Available in clear or Low-E insulating glass only.

(4) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.

Pella® Reserve™ Traditional Precision-Fit Hung Window

Unit Section - Aluminum-Clad Exterior Ogee Exterior Glazing Profile

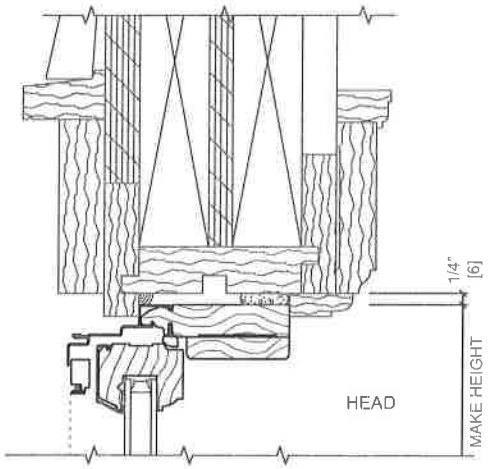


* Dimension required for ordering units with unequal sash.

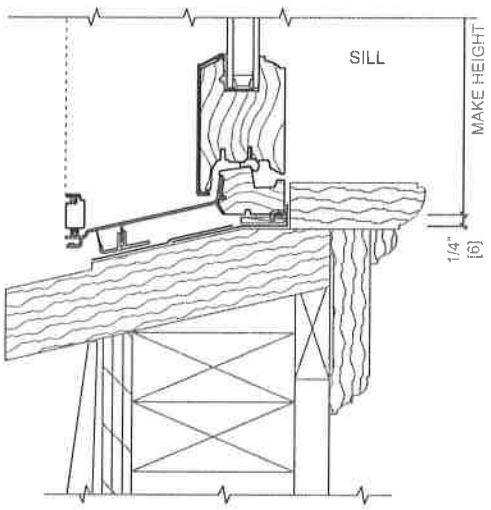
Scale 3" = 1' 0"

All dimensions are approximate.

Installation Details - Aluminum-Clad Exterior

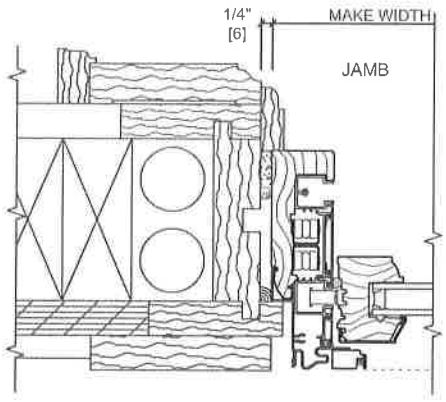


NOTE:
WALL CONSTRUCTION AND OLD DOUBLE-HUNG FRAME SHOWN ARE EXISTING; OLD DOUBLE-HUNG SASH HAS BEEN REMOVED.
REFER TO THE APPROPRIATE PELLA INSTALLATION INSTRUCTION FOR COMPLETE STEP BY STEP INSTRUCTIONS.
SHIM AND PLUMB UNITS AS REQUIRED.
SEAL UNIT TO EXTERIOR / BLIND STOP.



SEAL THE UNIT TO EXISTING STOOL AND WINDOW SILL.
SEAL ADJUSTABLE SILL ADAPTER TO EXISTING WOOD SILL.
LEVEL UNITS AS REQUIRED.

NOTE:
THE ADJUSTABLE SILL ADAPTER MAY BE REMOVED WHEN THE EXISTING WINDOW SILL HAS A SLOPE OF 12 DEGREES OR LESS.

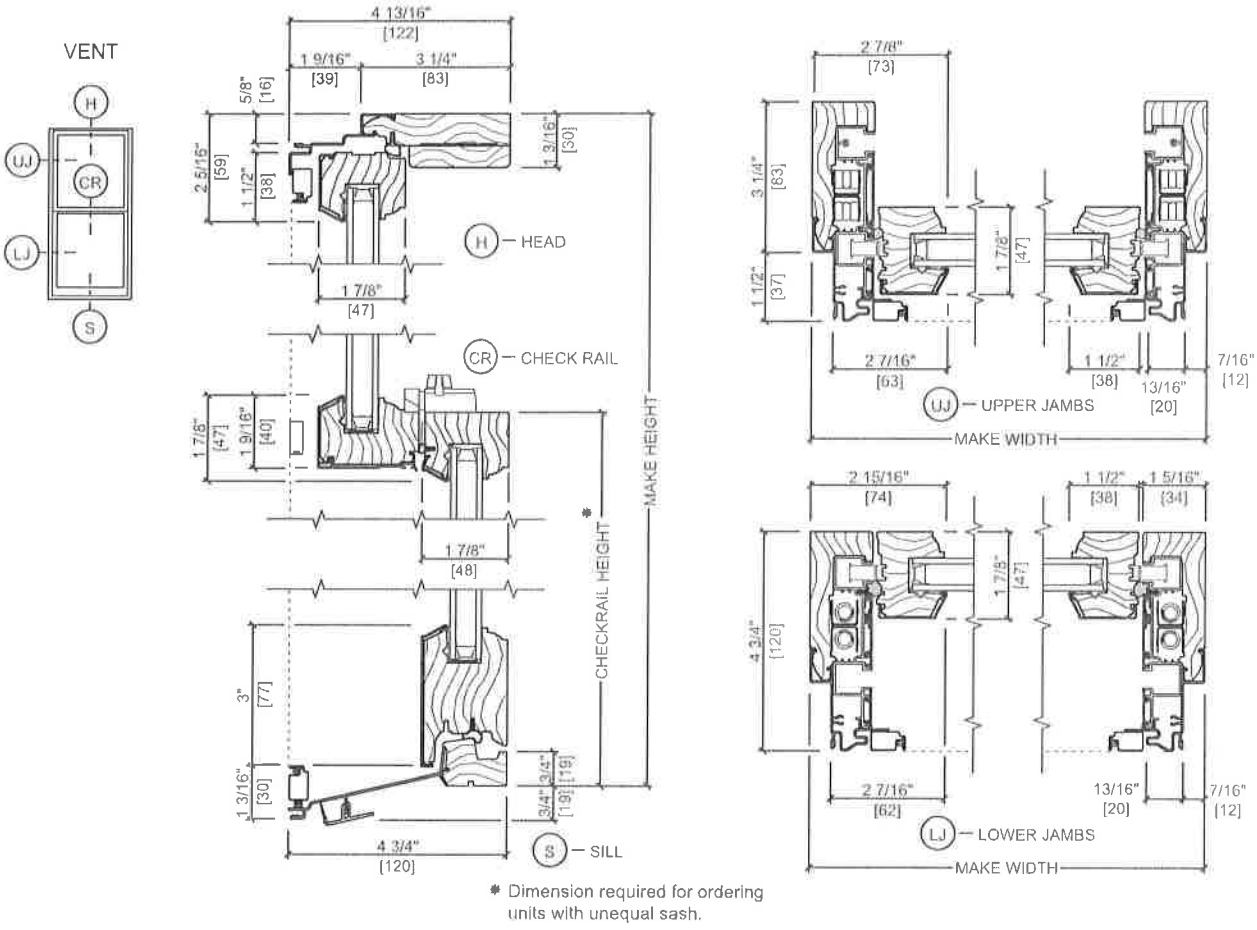


INSULATE ALL VOIDS AT WINDOW PERIMETER (BY OTHERS).
SEAL UNIT TO EXTERIOR / BLIND STOP.

Scale 3" = 1' 0"
All dimensions are approximate.

Pella® Reserve™ Traditional Precision-Fit Hung Window

Unit Section - Aluminum-Clad Exterior Putty Exterior Glazing Profile

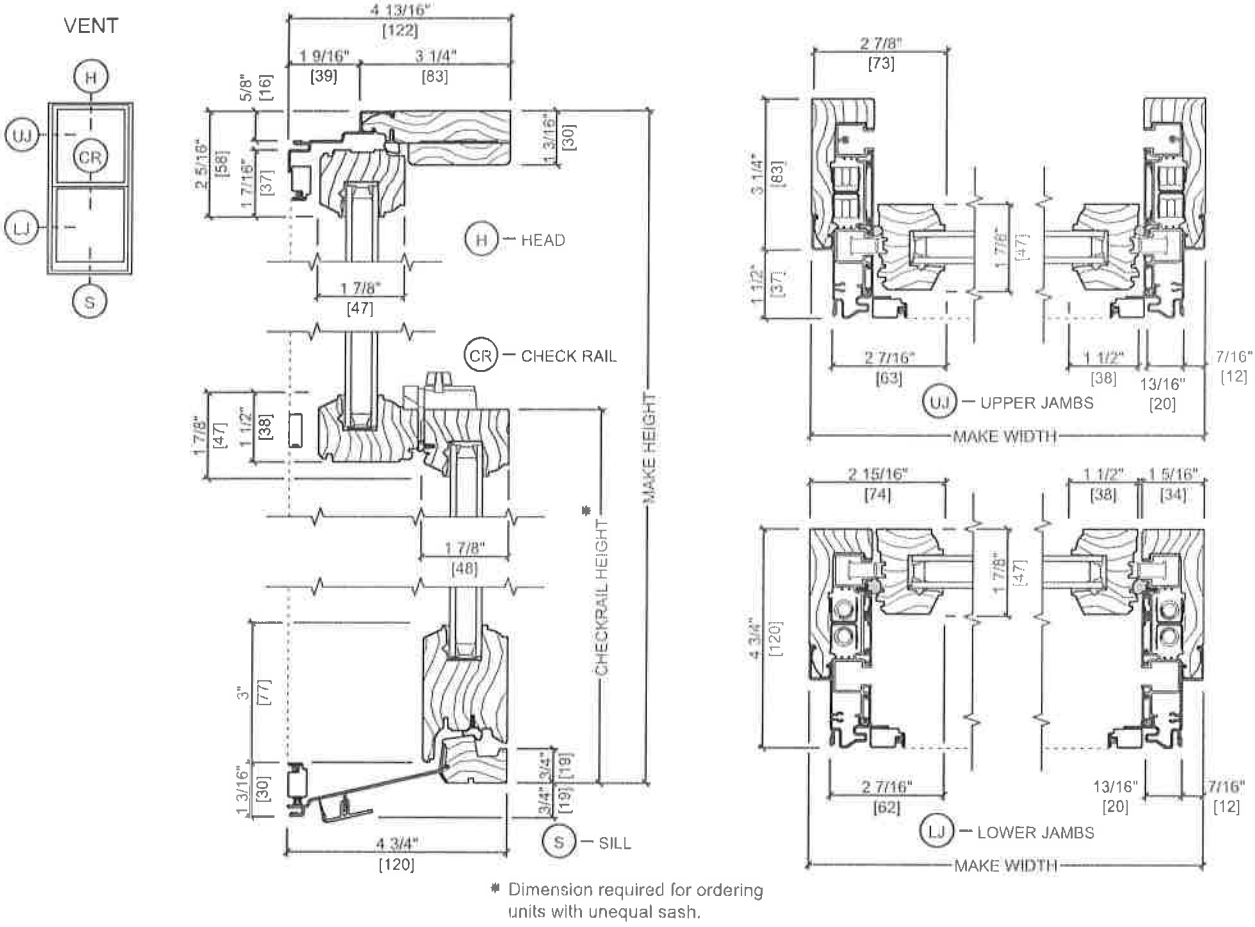


* Dimension required for ordering units with unequal sash.

Scale 3" = 1' 0"

All dimensions are approximate.

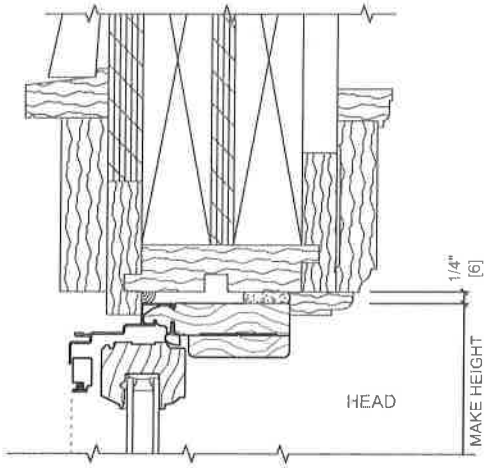
Unit Section - Wood Exterior Sash Putty Exterior Glazing Profile



* Dimension required for ordering units with unequal sash.

Scale 3" = 1' 0"

All dimensions are approximate.



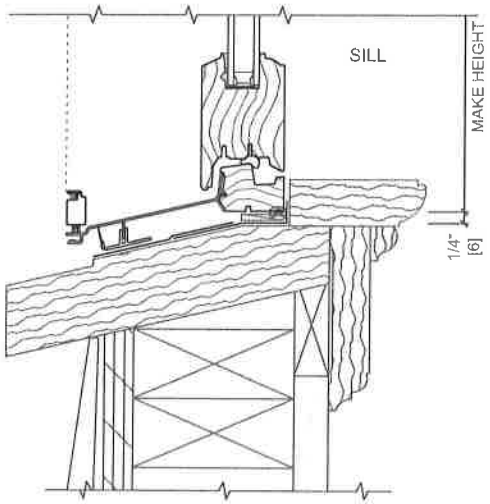
NOTE:

WALL CONSTRUCTION AND OLD DOUBLE-HUNG FRAME SHOWN ARE EXISTING; OLD DOUBLE-HUNG SASH HAS BEEN REMOVED.

REFER TO THE APPROPRIATE PELLA INSTALLATION INSTRUCTION FOR COMPLETE STEP BY STEP INSTRUCTIONS.

SHIM AND PLUMB UNITS AS REQUIRED.

SEAL UNIT TO EXTERIOR / BLIND STOP.



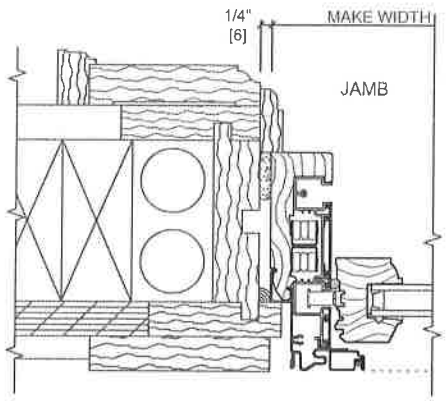
SEAL THE UNIT TO EXISTING STOOL AND WINDOW SILL.

SEAL ADJUSTABLE SILL ADAPTER TO EXISTING WOOD SILL.

LEVEL UNITS AS REQUIRED.

NOTE:

THE ADJUSTABLE SILL ADAPTER MAY BE REMOVED WHEN THE EXISTING WINDOW SILL HAS A SLOPE OF 12 DEGREES OR LESS.



INSULATE ALL VOIDS AT WINDOW PERIMETER (BY OTHERS).

SEAL UNIT TO EXTERIOR / BLIND STOP.

Scale 3" = 1' 0"

All dimensions are approximate.