

STAFF REPORT: SEPTEMBER 22, 2021 MEETING

PREPARED BY: A. DYE

APPLICATION NUMBER: 21-7470

ADDRESS: 1022 SEMINOLE

HISTORIC DISTRICT: INDIAN VILLAGE

APPLICANT: BRADLEY KENOYER & JORDAN MEDEIROS

PROPERTY OWNER: BRADLEY KENOYER & JORDAN MEDEIROS

DATE OF PROVISIONALLY COMPLETE APPLICATION: AUGUST 30, 2021

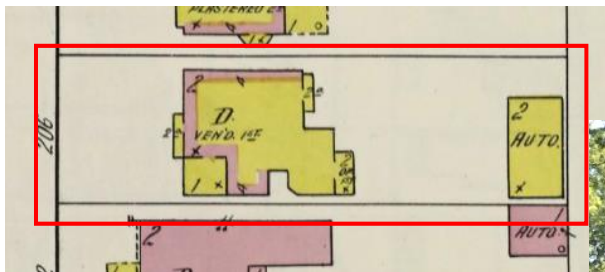
DATE OF STAFF SITE VISIT: SEPTEMBER 1, 2021

SCOPE: DEMOLISH EXISTING 3-SEASON SUNROOM; ERECT 4-SEASON SUNROOM, MASONRY SHED, BRICK WALL/FENCE WITH BRONZE INSERTS; CEDAR SHAKE ROOF; COPPER ROOF, GUTTERS & DOWNSPOUTS

Note: The staff report was revised on 9/17/21 at 11:30 a.m. to include the applicant's revised window order (color).

EXISTING CONDITIONS

Erected ca. 1900, the building at 1022 Seminole is a two-story, English Revival, single-family dwelling, designed by Albert Kahn for the Cook Farm Company. The structure features a reverse gable roof, brick cladding at the first story, and wood shake and stucco with half-timbering at the second story. Multiple projecting surfaces culminate with a front-facing second-floor gable that overhangs the first floor and includes ornately and heavily carved trim surrounding a triple window (which showcases arched upper sashes with leaded diamond pattern glass). A box-bay window directly below at the first floor offers slightly more straightforward detailing, while the carved trim supporting and partially enclosing the front entry porch, coupled with the glass-enclosed side porch, offers a counterbalance to the ornate gable design. Windows are wood-sash and include some clear glass units, while double-hung and casement units (with wood muntins or lead comes) are most common. The sides and rear elevations are faced with wood shake and clapboard siding at the second and first floors, respectively.



Above:
Sanborn Map Company, Vol. 8, 1915.
206 was renumbered as 1022 in 1921.

Right:
HDC Staff Photo, September 1, 2021

As shown in the adjacent photos, the house almost fills the width of the lot. The front yard is separated from the adjacent houses by hedges running along the north and south lot lines; an iron (or aluminum) fence with gate, at the front southwest corner of the house, closes off access to the rear yard.



The historic two-story, wood-framed garage is located at the southeast corner of the rear yard. The roof has a reverse gable; the exterior is faced with clapboard and shake siding, matching the general house form and materials of the rear elevation. The rear yard is enclosed from the neighboring houses and alley by chain link fencing, a wood privacy fence, and/or shrubbery.

The front yard includes a boxwood hedge that is transected by the concrete front walkway. The ground surface spanning the inside of the hedge is covered with gray gravel, upon which four outdoor chairs are placed.

PROPOSAL

Per the applicant's scope of work, narrative, and drawings, it is staff's understanding the projects before the Commission consist of the following items:

Demolition:

- Demolish existing rear enclosed porch

New Construction:

• Rear enclosed porch addition

- Exterior Finishes: brick, wood, limestone
- New wood, aluminum-clad windows
- Cedar shake roof
- Copper gutters and downspouts
- Wood perimeter railing at upper porch
- Electrical and lighting
- HVAC

• Tool Shed (to house pool equipment)

- Exterior finishes: brick, wood, limestone sill
- Windows (wood clad)
- Cedar Shake Roof
- Copper Gutters and Downspouts

• Rear Yard Masonry Pier/Wall and Bronze Rail Fence (north and south lot lines)

- Exterior finishes: brick, limestone caps (piers), clay coping (walls), salvaged bronze fencing

• Cabanas

- Exterior Finishes: brick, canvas sunshades, and metal support structure
- Colors: black metal supports, canvas – not specified

Materials

- Brick: Brick Tech "Cherry Red" color in modular size with a running bond coursing.
- Wood Trim: To be painted "dark brown" to match the existing horizontal wood lap siding and trim at the rear of the home.
- Windows and patio doors: Pella, Reserve, Traditional, wood, aluminum-clad units, color: tan

9/17/21 applicant revised sash
color to brown

Repairs to Existing Structures:

• Roof

- Full Tear-Off of Existing Roofs
- New Cedar Shingle Roofs at Main House and Carriage House
- New Raised Seam Copper Roof at existing front/side sunroom addition.
- New gutters, copper flashing, and repair of eaves where needed, to match existing finishes

STAFF OBSERVATIONS AND RESEARCH

- The Indian Village Historic District was established in 1971.
- In 1896, Albert Kahn, George Nettleton and Alexander Trowbridge established an architectural firm in Detroit (Nettleton, Kahn & Trowbridge). Trowbridge left shortly thereafter to become Dean of the College of Architecture at Cornell University. Kahn's design for 1022 Seminole (original street number was 206) was created when the firm was known as Nettleton & Kahn. Upon Nettleton's death in 1900, the firm's name and partnership structure changed a few times until finally settling at Albert Kahn Associates, Inc. It is possible this is one of the first residential designs Kahn completed as an independent architect.
- It is staff's opinion the independent roof structure of a single-story porch allows for a contrasting roof material and color (a common example is the use of metal standing seam on single-story porch shed roofs of Victorian-era two-story houses). For this house, the use of a raised seam copper roof will offer a richly colored, textural contrast to the front elevation.

Sunroom

- While the sunroom's southern wall is in line with the wall of the existing house, the site plan shows a small, recessed area at the intersection of the sunroom and house. Allowing the new brick to abut the existing house walls, an easy separation of old and new is created (detail is shown on the north and south walls).
- The vertical rhythm of openings framed by flat wood mullions, in conjunction with the flat roof and wood perimeter railing, creates a restrained design which is a less visually impactful form for the rear elevation than that of the existing front gabled screen porch, and defers to the historic context.

Accessory Structure

- While the shed's roof form is common on historic accessory structures (as shown in the applicant's photo included in the *existing condition/narrative* document) the minimal details of the proposed structure (i.e., flat-faced vergeboard; no patterns to the masonry walls; single window openings with no wood casings) gives the shed a more contemporary appearance and defers to the historic context.

Masonry Wall/Bronze Fence

- The use of salvaged bronze fencing within newly constructed masonry walls offers an interesting juxtaposition of old and new. Standard #3 states -- "*Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.*" It is staff's opinion the insertion of fencing pieces within new masonry walls does not conflict with Standard #3:
 - Historic metal fences were generally anchored by (matching material) metal posts. If masonry piers were used, they were typically narrow piers and most commonly placed at entrance points.
 - The proposed pier/wall design, in staff's opinion, is a contemporary take on a historic feature due to the height, massing, unadornment and joining of wall and pier. This allows the walls and fencing to be differentiated from a historic fence, as well as from the historic details and materials on the house, thus being a product of its time and unlikeliness to read as "falsely historical".
- The masonry walls will be located along the side property lines within the rear yard. The finished height of the walls and fencing is 5'-7" which is below the allowed six-foot height of side property line fences as illustrated in the Commission's *Fence and Hedge Guidelines*. The guidelines also state under Allowable Types: *Brick and stone –masonry foundations, piers and fence walls. The material of any masonry wall should be compatible with that of the building it abuts.*

Cabana

- The shades will be installed within newly constructed masonry piers/walls. The element is minimal in physicality and won't offer a visual impact any greater than the ubiquitous free-standing table/patio umbrellas.

General

- The combined effect of the new construction and change of roofing materials will offer this site an exciting comprehensive design befitting the lavish historical details of the original structures (house and garage).

ISSUES

- A pool is referenced within the narrative and through the proposed shade structures, however no indication of the future pool is shown on the site plan. As such, no pool is included in the review nor the HDC decision.
- At the July 13, 2016 HDC meeting, the Commission approved the then-previously installed front yard boxwood hedge and denied the gravel and brick border patio.
- The scope says the sunroom's wood siding will be painted dark brown to match existing horizontal wood lap siding and trim at the rear of the home. The Pella window order states the exterior cladding for the sunroom windows, doors, and shed windows, will be tan. This will create a precisely opposite color pattern of the rear elevation second floor and a disjointed look for the windows across the first floor.



RECOMMENDATION

Section 21-2-78, Determination of Historic District Commission

The proposed new construction is compatible with the massing, size, scale and architectural features of its environment, and does not destroy historic materials that characterize the property. The design includes several features to add complexity and visual interest consistent with its historic context. Staff therefore recommends that the proposal should qualify for a Certificate of Appropriateness, as it meets the Secretary of the Interior's Standards and the Indian Village Historic District's Elements of Design.

Staff recommends the Certificate of Appropriateness be issued with the following conditions:

- ~~The windows and doors within the sunroom and storage shed will be clad with a dark brown aluminum; color will be submitted for staff review.~~ 9/17/21 - Applicant submitted a revised window order specifying brown sash.
- The catalog cut for the wood door within the storage shed will be submitted for staff review.
- Color selection for the cabana screens will be submitted for staff review.



August 13, 2021

Brad Kenoyer
1022 Seminole St.
Detroit, MI 48214

RE: 1022 Seminole St – Exterior Renovation/ Historic District Commission Submission

Scope of Work

Demolition:

- Demolish existing rear enclosed porch

New Construction:

- Rear enclosed porch addition
 - New Construction, including:
 - Exterior Finishes
 - Brick
 - Wood
 - Limestone
 - New wood Windows
 - Cedar Shake Roof
 - Copper Gutters and Downspouts
 - Gutters and Downspouts
 - Electrical and lighting
 - HVAC
 - Interior Finishes
- Tool Shed
 - New Construction, Including
 - Exterior Finishes
 - Brick
 - Wood
 - Limestone sill
 - Windows
 - Cedar Shake Roof
 - Copper Gutters and Downspouts
 - Pool Equipment
- Cabanas
 - New Construction, including:
 - Exterior Finishes
 - Brick
 - Canvas Sun shades and metal support structure
- Repairs to Existing Structures:
 - Roof
 - Full Tear-Off of Existing Roofs
 - New Cedar Shingle Roofs at Main House and Carriage House
 - New Raised Seam Copper Roof at existing front/side sunroom addition.
 - New gutters, copper flashing, and repair of eaves where needed, to match existing finishes



August 13, 2021

RE: 1022 Seminole St – Exterior Renovation/ Historic District Commission Submission

Description of Existing conditions.

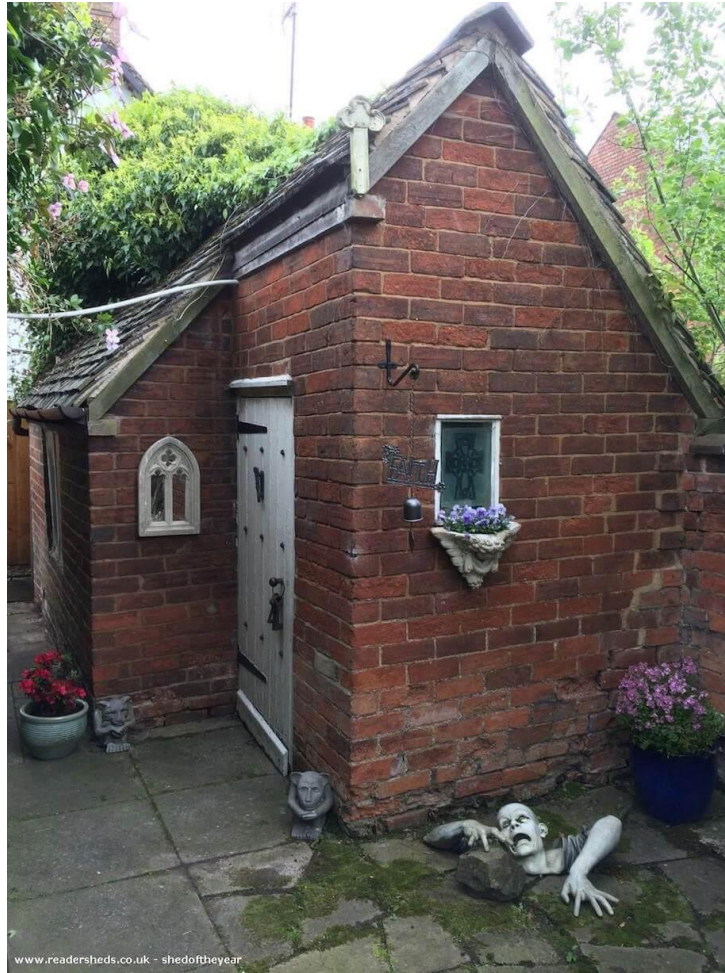
1022 Seminole is a single-family home constructed in 1900. The residence is 3,492 sq.ft., 5 bedrooms and 3 baths. The home is 2 stories. The property also includes a detached 2 story carriage house. The home features many details typical of an Indian village home with ornate trim work. The façade consists of: brick, lapboard siding, shake siding and half-timber and stucco on the second floor of the front facade. The home currently has an existing rear sunporch that is to be removed.

Scope of work

The design for the new sun porch draws inspiration from the existing sun porch in the front right corner of the home. The new windows are seated directly on the stone sills and extend to the ceiling in a similar design. The entry porch also provides inspiration for our covered entry at the rear addition. The front center 3 panel windows with transom are the inspiration for the window configuration as we try to extend our glass from floor to ceiling.

A new storage shed to include space for pool equipment and new site walls on the side property lines to be a mixture of brick piers and bronze fencing will also be constructed.

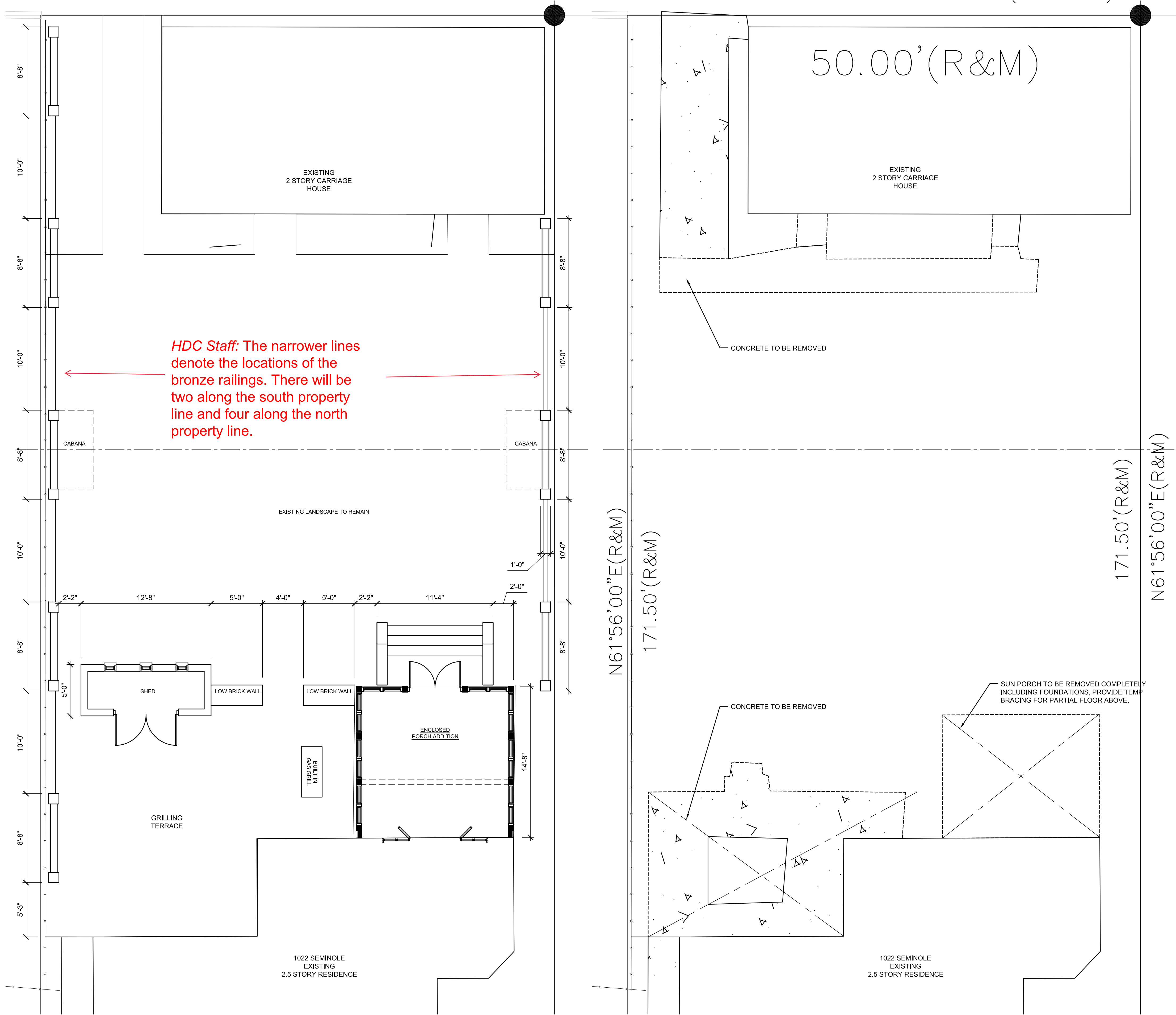
All new brick will be Brick Tech “Cherry Red” color in modular size with a running bond coursing. All wood trim will be painted “dark brown” to match the existing horizontal wood lap siding and trim at the rear of the home. Samples will be taken from the existing siding to establish a color match. Windows and patio doors will be custom aluminum-clad wood from Pella.



Storage shed ideas which will divide the terrace from the pool. This doesn't need to be very big, just deep enough to store garbage and recycling bins and maybe a lawn mower. Does not need to be walk in, just shallow but wide. With doors, or just some sort of privacy gate that can be locked up.

6 pieces 120 in. W x 68.375 in. H, 5 pieces 62 in. W x 54.625 H

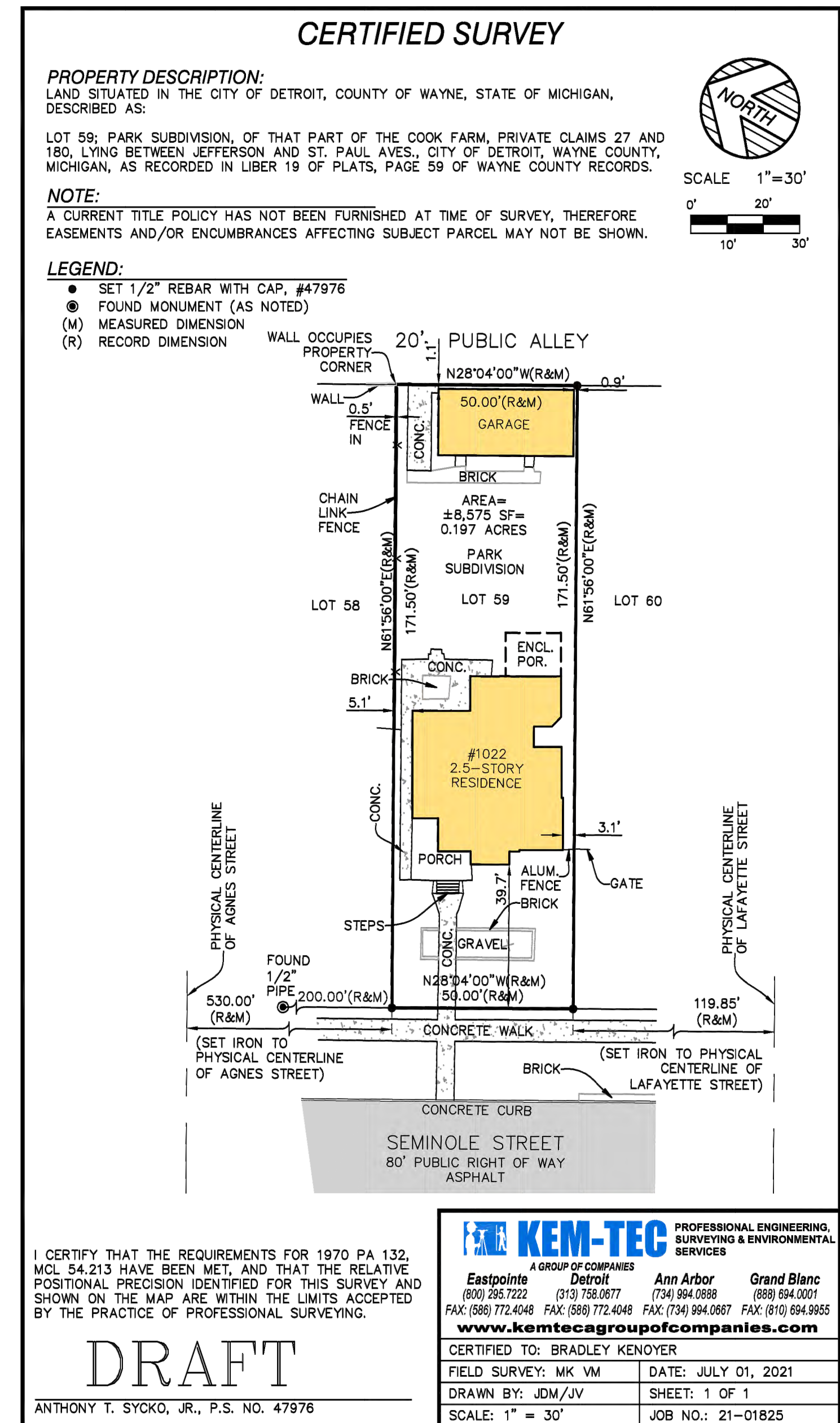




HDC Staff: The narrower lines denote the locations of the bronze railings. There will be two along the south property line and four along the north property line.

BACKYARD NEW WORK SITE PLAN
SCALE: 1"=5'-0"

BACKYARD SITE DEMOLITION PLAN
SCALE: 1"=5'-0"



Project :
KENOYER RESIDENCE
EXTERIOR RENOVATION
1022 SEMINOLE ST.
DETROIT, MI 48214

Issued for :
HDC 08-13-2021

Drawn by :
TRF
Check by :

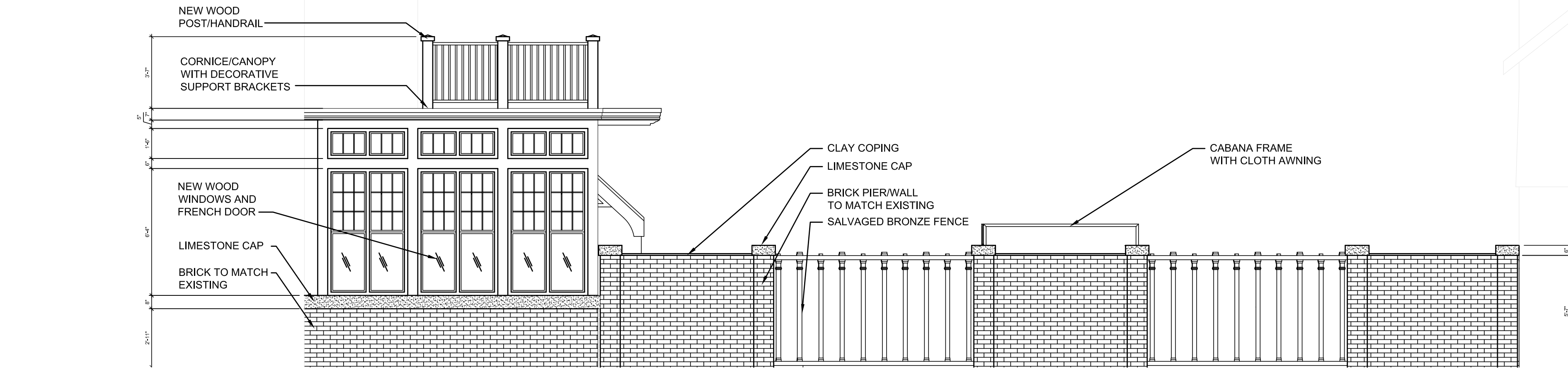
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ARCHITECTURAL
SITE PLAN

Project No. :
2021015

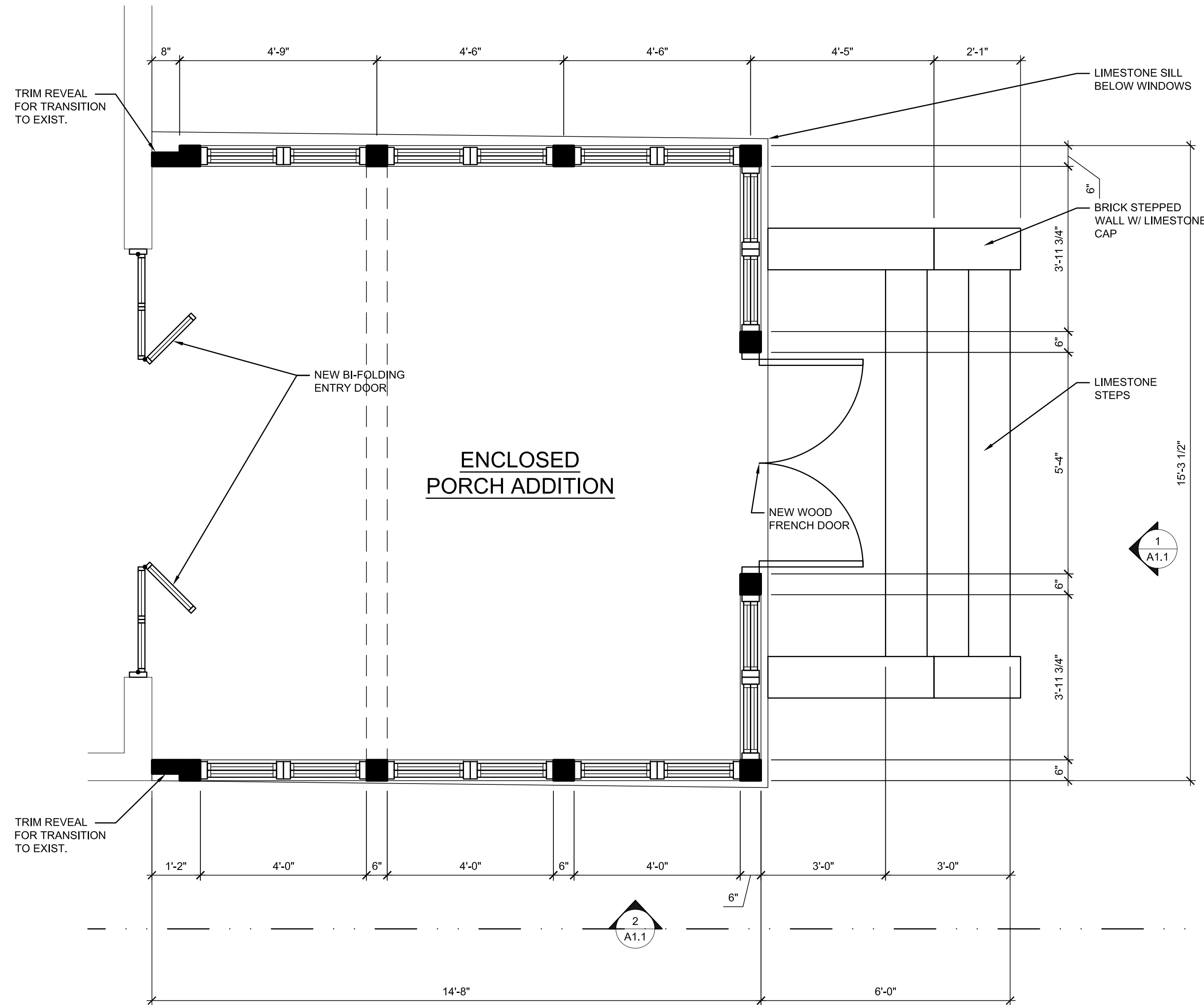
Sheet No. :
SP1.1

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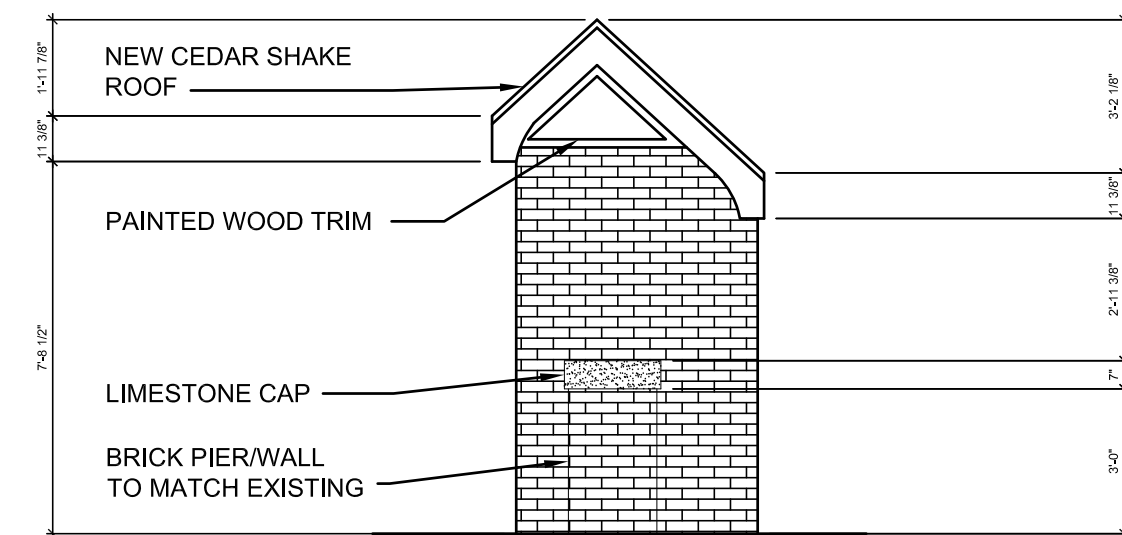
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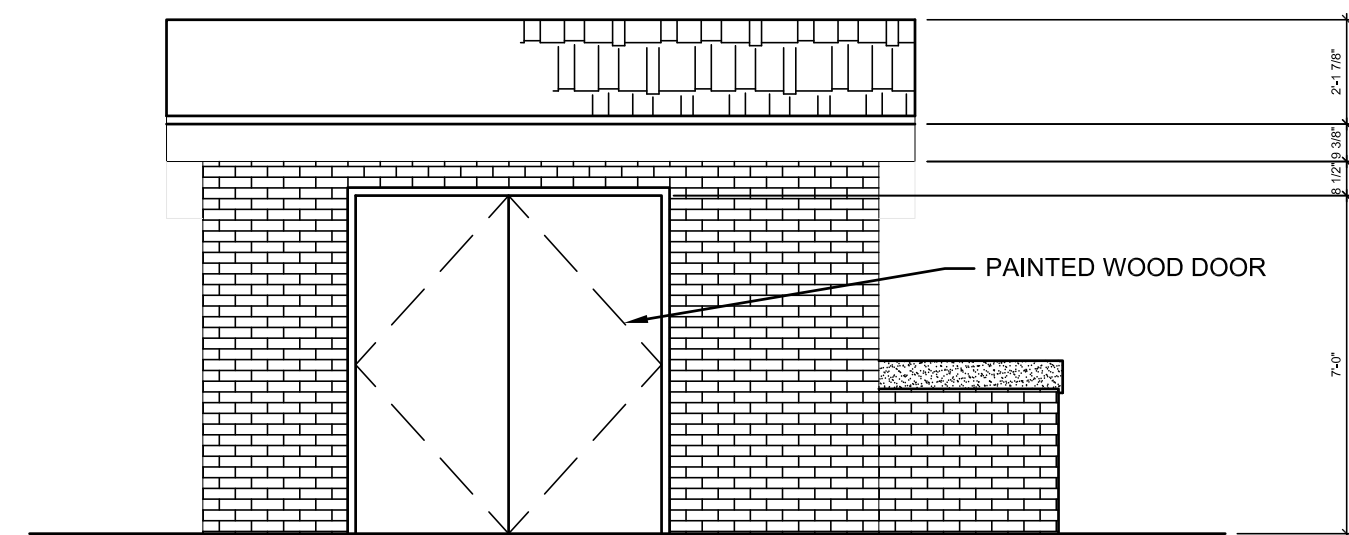
2 SOUTH ELEVATION
A1.1 SCALE: 1/4"=1'-0"



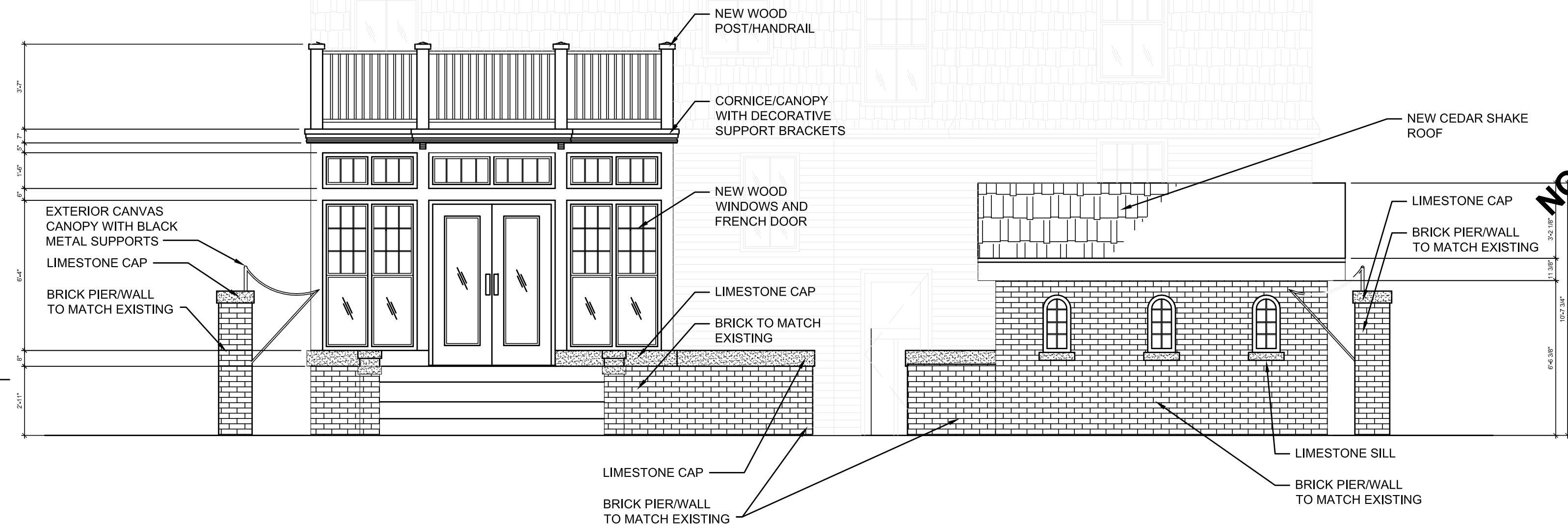
FIRST FLOOR PLAN
SCALE: 1/2"=1'-0"



3 SOUTH SHED ELEVATION
A1.1 SCALE: 1/4"=1'-0"



4 WEST SHED ELEVATION
A1.1 SCALE: 1/4"=1'-0"



1 WEST ELEVATION
A1.1 SCALE: 1/4"=1'-0"

ARCHITECT:

4545 architecture

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STE 400
DETROIT, MI 48208
P. 248.320.6098
TIM.FLINTOFF@4545ARCHITECTURE.COM



1938 FRANKLIN ST. #207
DETROIT, MI 48207

Project :
KENOYER RESIDENCE
EXTERIOR RENOVATION
1022 SEMINOLE ST.
DETROIT, MI 48214

Issued for :
HDC 08/13/2021

Drawn by :
TRF
Check by :

Sheet Title :
FLOOR PLAN
+ EXTERIOR VIEWS

Project No. :
2021015

Sheet No. :
A1.1

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2
A1.1

EXISTING EAST ELEVATION
SCALE: 1/4"=1'-0"

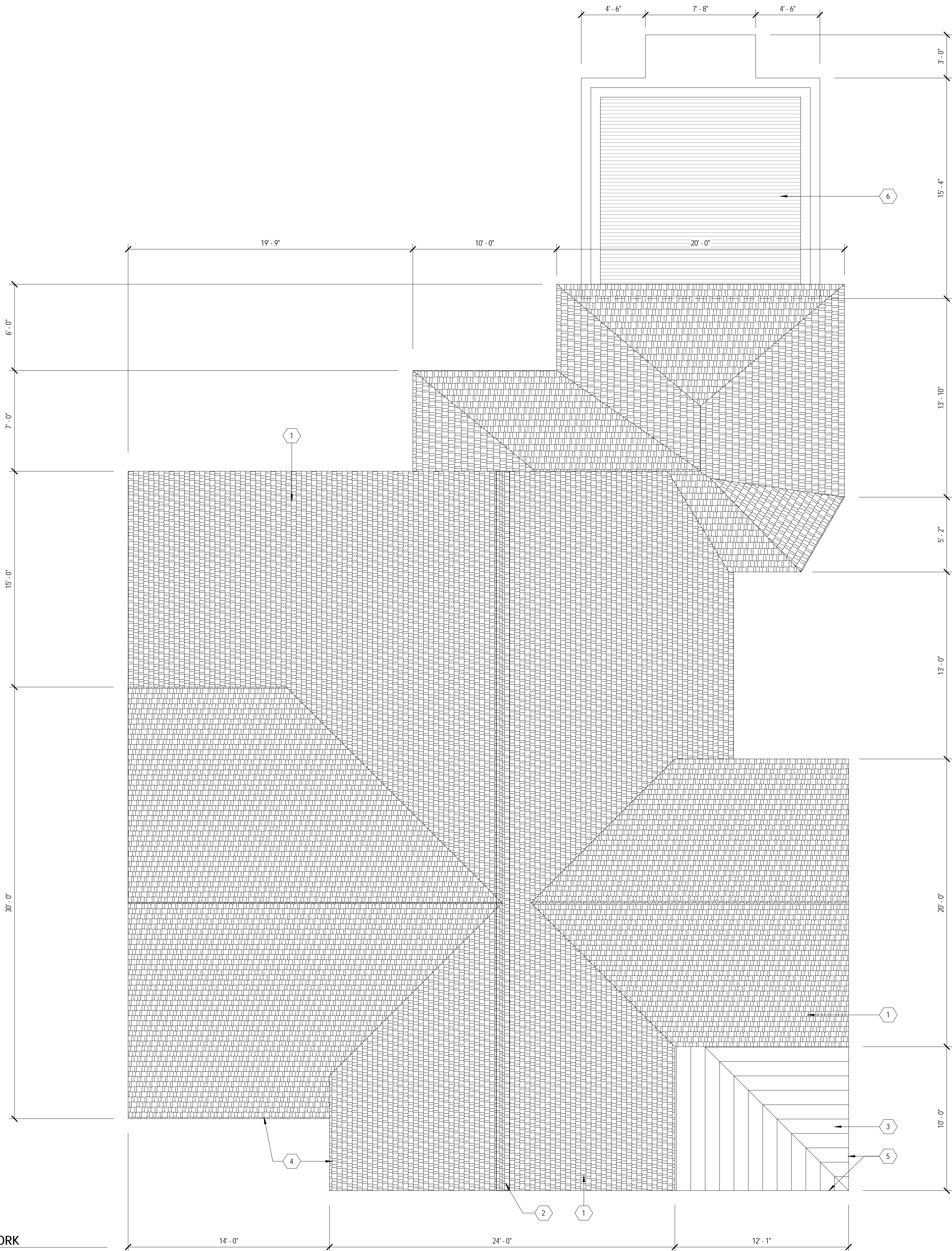


1
A1.1

PROPOSED EAST ELEVATION
SCALE: 1/4"=1'-0"

ARCHITECT:	
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<div>URBAN ALTER SCAPE design • renovate • remodel • build</div> <div>1938 FRANKLIN ST. #207 DETROIT, MI 48207</div>	
Project :	
KENOYER RESIDENCE EXTERIOR RENOVATION 1022 SEMINOLE ST. DETROIT, MI 48214	
Issued for :	
HDC	08/13/2021
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Sheet Title :	
ELEVATION COMPARISON	
Project No. :	
2021015	
Sheet No. :	
A1.2	

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1 ROOF PLAN - NEW WORK
SCALE: 1/4" = 1'-0"

GENERAL EXTERIOR DEMOLITION / REPAIR NOTES:

1. CONTRACTOR TO PERFORM ALL EXTERIOR MAINTENANCE REQUIRED USING SAME/SIMILAR MATERIAL TO PERSERVE EXISTING HISTORICAL DETAILS, FORMS, SHAPES, TRIM, AND COLORS
2. SURVEY TO BE PERFORMED OF EXTERIOR BRICK FACING AS TO ITS CONDITION AND MAKE ANY RECOMENDATIONS FOR REPAIRS TO CONDITIONS IN NEED OF REPAIR.
3. COLOR AND/OR MATERIAL CHANGES MAY BE SUBJECT TO APPROVAL BY CITY HISTORIC COMMISSION.
4. CONTRACTOR TO REMOVE ALL EXISTING WOOD SIDING.
5. SURVEY TO BE PERFORMED OF ALL EXISTING WOOD TRIM, SOFFITS, AND FASCIAS TO DETERMINE EXTENT THAT CAN BE SALVAGED AND REPAIRED VS. REPLACED. ANY NEW WOOD TRIM TO BE OF SAME MATERIAL AND PROFILE TO PRESERVE EXISTING HISTORICAL DETAILS.
6. CONTRACTOR TO SURVEY ALL EXISTING WINDOWS AND PROVIDE COST ESTIMATE FOR REMOVAL, REFURBISHMENT, AND REINSTALLATION.

ROOF KEY NOTES:

(TYPICAL THIS SHEET ONLY)

- 1 NEW CEDAR SHAKE ROOFING ON ROOFING PAPER AND ICE/WATER SHEILD ON NEW 3/4" PLYWOOD SHEATHING.
- 2 RIDGE VENT WITH CEDAR SHAKE RIDGE CAP
- 3 NEW COPPER STANDING SEAM ROOFING ON NEW ROOFING PAPER AND ICE/WATER SHEILD ON NEW 3/4" PLYWOOD SHEATHING.
- 4 NEW COPPER GUTTER AND DOWNSPOUTS. EXISTING WOOD FASCIA TO REMAIN. REPAIR/REPLACE FASCIA AS REQUIRED USING LIKE MATERIALS WITH MATCHING PROFILES. DOWNSPOUT LOCATIONS TO MATCH EXISTING
- 5 NEW INTERGRATED COPPER GUTTER AND DOWNSPOUTS. PROFILE TO MATCH EXISTING. DOWNSPOUT LOCATIONS TO MATCH EXISTING.
- 6 NEW ROOF DECK ON ROOF OF REBUILT REAR 4 SEASON PORCH. WOOD DECKING AND SLEEPERS ON MEMBRANE ROOF. REFER TO PLANS AND ELEVATIONS FOR DETAILS.

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CONSULTANT:

Project :

KEYONER RESIDENCE
EXTERIOR RENOVATION
1022 SEMINOLE ST.
DETROIT, MI 48214

Issued for :

HDC 08-13-2021

Drawn by :

JRM
Checked by :
JRM

Sheet Title :
ROOF PLAN

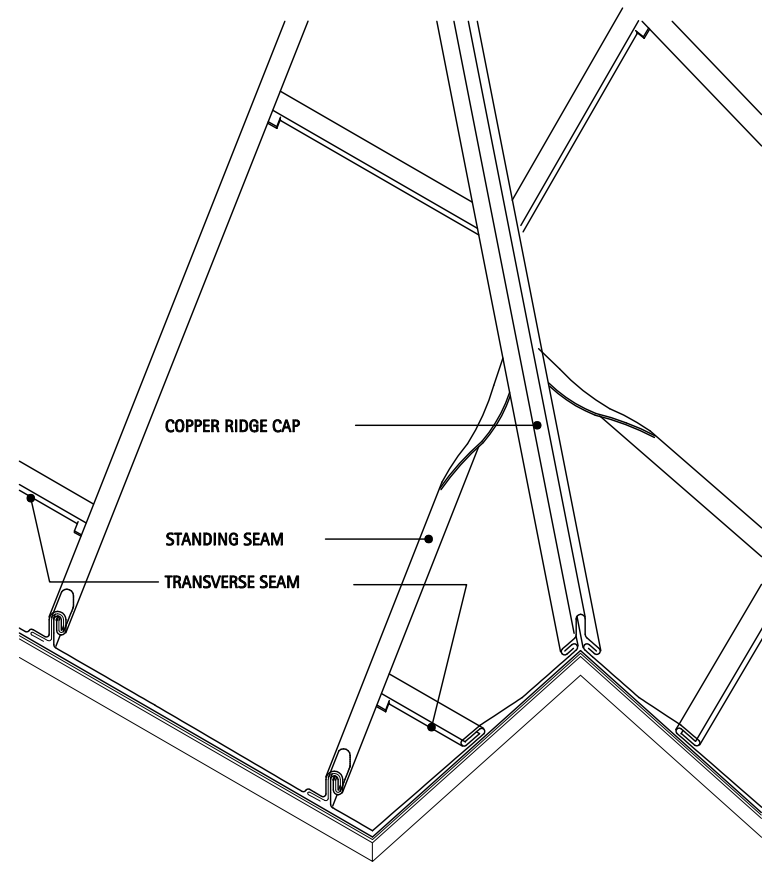
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2021015

Sheet No. :

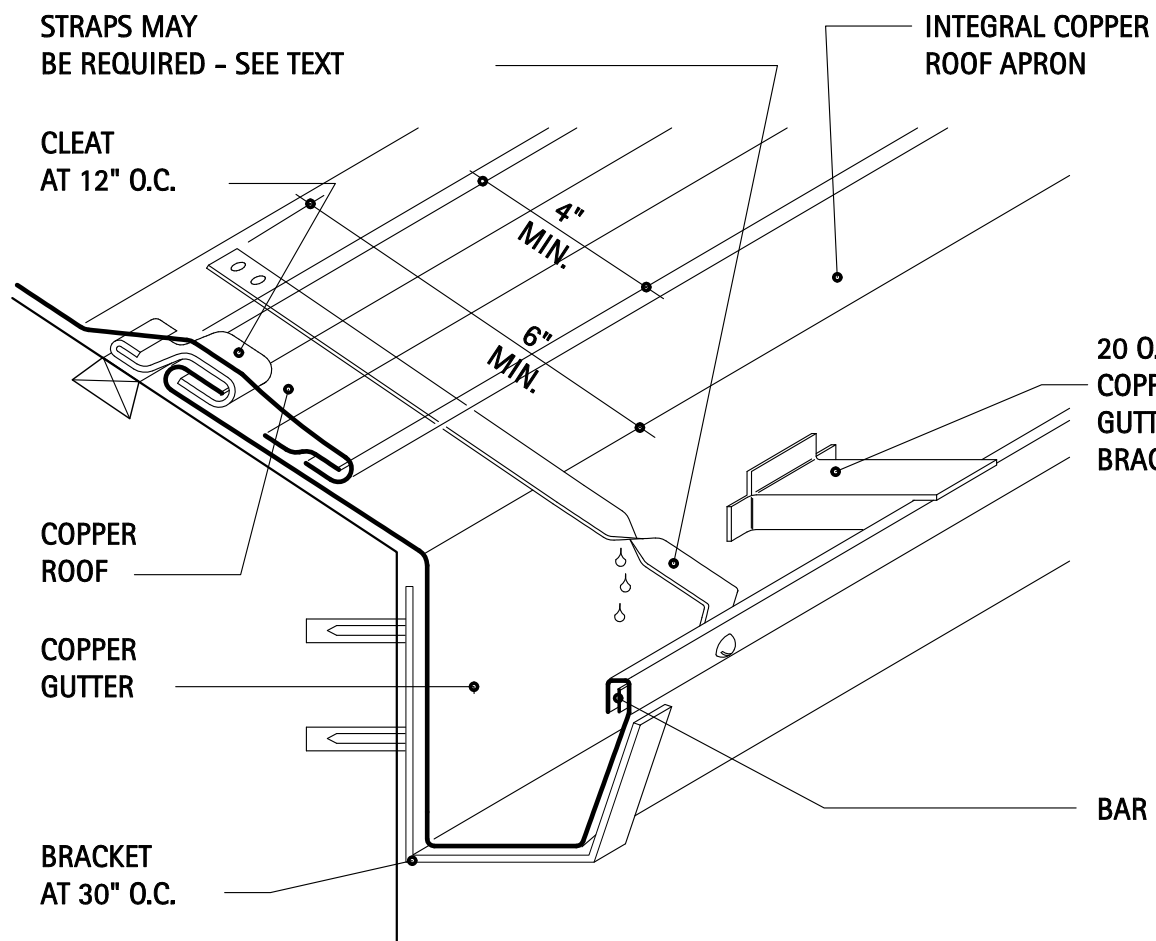
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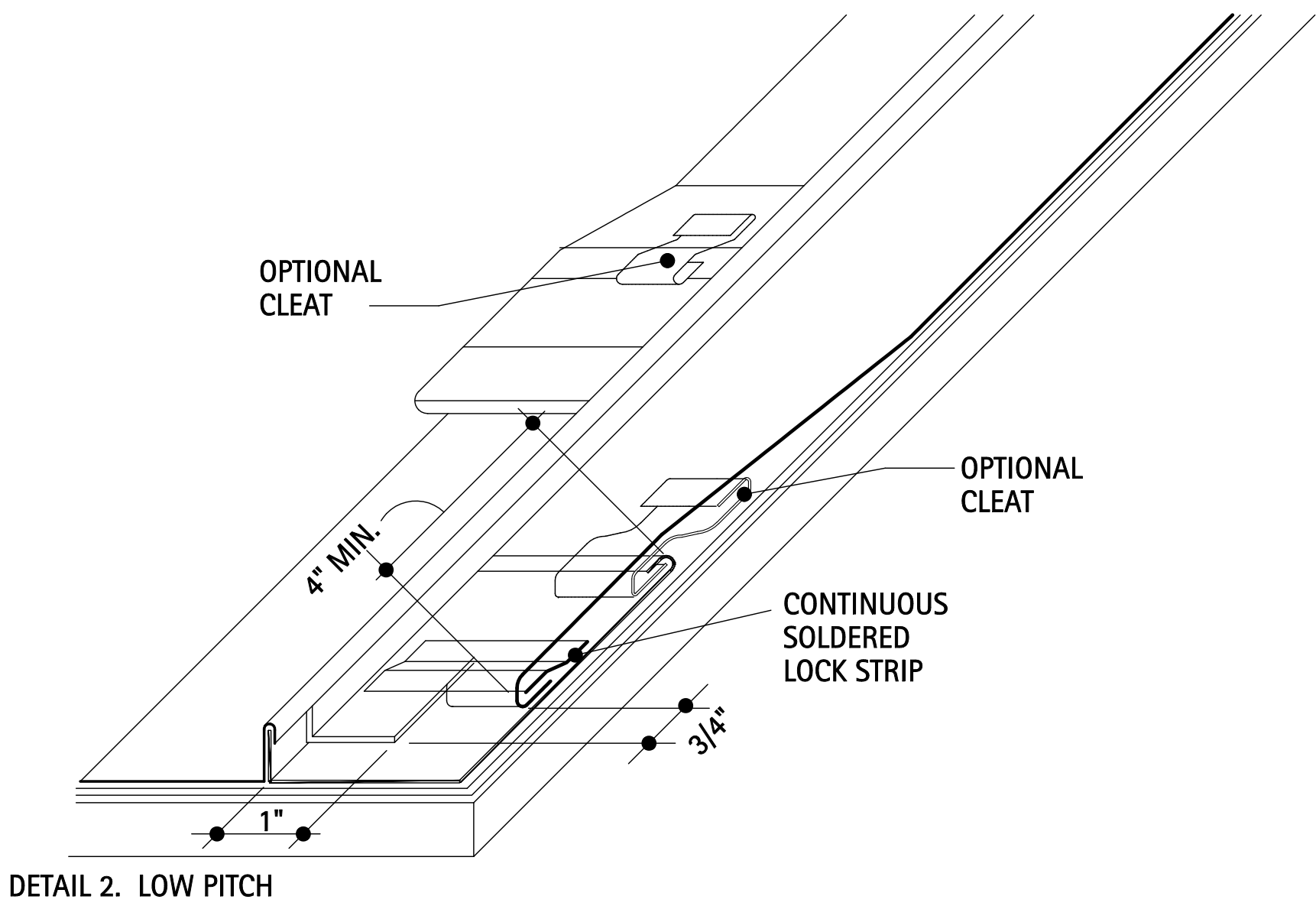
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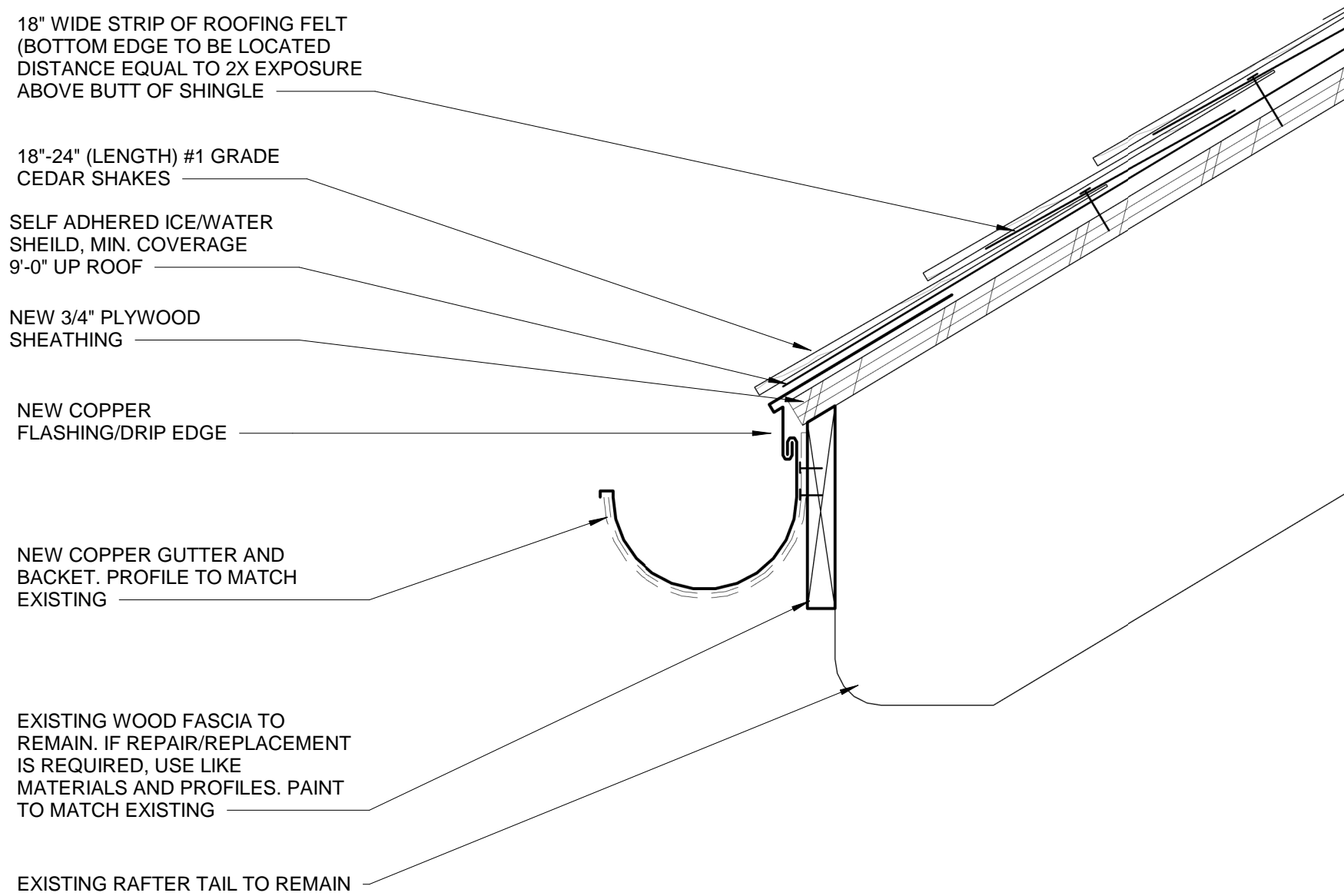
4 COPER RIDGE CAP / STANDING SEAM DETAIL



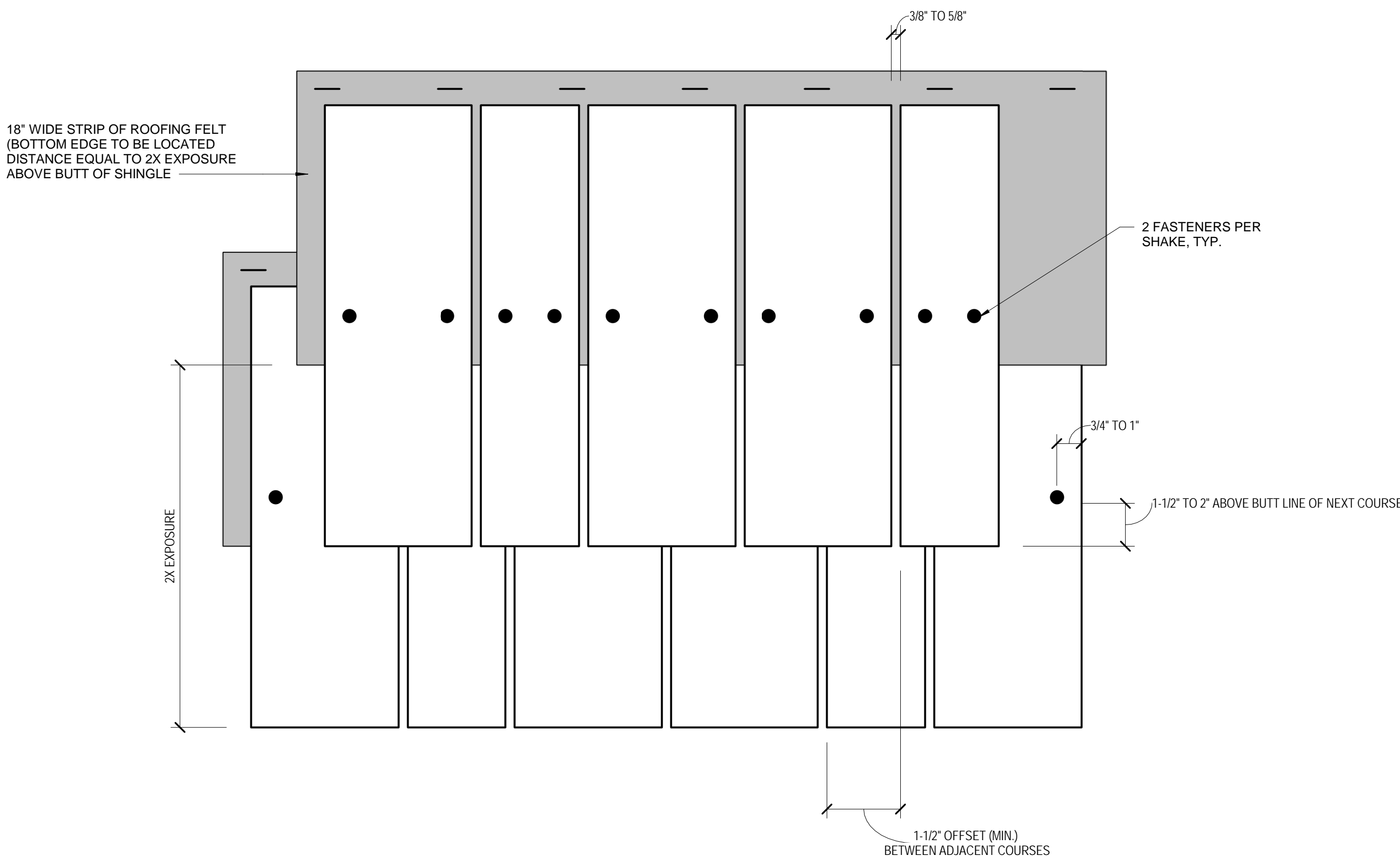
4 INTEGRATED COPPER GUTTER DETAIL



3 COPPER STANDING SEAM JOINT DETAIL



2 TYPICAL EAVE DETAIL AT CEDAR SHAKE ROOF



1 CEDAR SHAKE TYPICAL INSTALLATION

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WEST (FRONT) ELEVATION
NOT TO SCALE



EAST (REAR) ELEVATION
NOT TO SCALE



REAR PORCH NORTH (SIDE) ELEVATION
NOT TO SCALE

GENERAL EXTERIOR DEMOLITION / REPAIR NOTES:

1. CONTRACTOR TO PERFORM ALL EXTERIOR MAINTENANCE REQUIRED USING SAME/SIMILAR MATERIAL TO PERSERVE EXISTING HISTORICAL DETAILS, FORMS, SHAPES, TRIM, AND COLORS
2. SURVEY TO BE PERFORMED OF EXTERIOR BRICK FACING AS TO ITS CONDITION AND MAKE ANY RECOMMENDATIONS FOR REPAIRS TO CONDITIONS IN NEED OF REPAIR.
3. COLOR AND/OR MATERIAL CHANGES MAY BE SUBJECT TO APPROVAL BY CITY HISTORIC COMMISSION.
4. CONTRACTOR TO REMOVE ALL EXISTING WOOD SIDING.
5. SURVEY TO BE PERFORMED OF ALL EXISTING WOOD TRIM, SOFFITS, AND FASCIAS TO DETERMINE EXTENT THAT CAN BE SALVAGED AND REPAIRED VS. REPLACED. ANY NEW WOOD TRIM TO BE OF SAME MATERIAL AND PROFILE TO PRESERVE EXISTING HISTORICAL DETAILS.
6. CONTRACTOR TO SURVEY ALL EXISTING WINDOWS AND PROVIDE COST ESTIMATE FOR REMOVAL, REFURBISHMENT, AND REINSTALLATION.

EXTERIOR REPAIR KEY NOTES:

(TYPICAL THIS SHEET ONLY)

1. TEAR OFF EXISTING ASPHALT SHINGLE ROOF AND SHEATHING COMPLETE.
2. DEMOLISH EXISTING REAR PORCH COMPLETE.
3. CONSTRUCT NEW REAR 4-SEASON PORCH. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS.
4. INSTALL NEW CEDAR SHAKE ROOF ON ROOFING PAPER AND ICE/WATER SHEILD ON 3/4" PLYWOOD SHEATHING
5. INSTALL NEW COPPER DRIP EDGE/FLASHING AND COPPER GUTTERS AND DOWNSPOUTS. GUTTER PROFILE TO MATCH EXISTING. DOWNPOUT LOCATIONS TO MATCH EXISTING.
6. INSTALL NEW COPPER STANDING SEAM ROOFING ON ROOFING PAPER AND ICE/WATER SHEILD ON 3/4" PLYWOOD SHEATHING

ARCHITECT:

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CONSULTANT:

Project :

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1022 SEMINOLE ST.
DETROIT, MI 48214

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HDC 08-13-2021

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Sheet Title :

EXTERIOR
ELEVATIONS AND
WORK NOTES

Project No. :

2021015

Sheet No. :

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ENDER STEP LOCATION

4545 architecture

August 13, 2021

RE: 1022 Seminole St – Exterior Renovation/ Historic District Commission Submission

Brick Selection:



BrickTech
Color: "Cherry Red"
Size: Modular





Contract - Detailed

Pella Window and Door Showroom of Auburn Hills
1940 Opdyke Ct
Auburn Hills, MI 48326
Phone: (248) 292-5000 Fax: (248) 292-5005

Sales Rep Name: Kruzel, Patrick
Sales Rep Phone: 248-260-6844
Sales Rep Fax: 248-292-5053
Sales Rep E-Mail: KruzelPL@pella.com

Customer Information	Project/Delivery Address	Order Information
URBAN ALTERSCAPE 1000 WHITTIER RD GROSSE POINT PARK, MI 48230 Primary Phone: (313) 5222137 Mobile Phone: Fax Number: E-Mail: GBAKER@URBANALTERSCAPE.COM Contact Name: Great Plains #: 1004971347 Customer Number: 1008945919 Customer Account: 1004971347	1022 SEMINOLE ST DETROIT 1000 WHITTIER RD Lot # GROSSE POINT PARK, MI 48230 County: Owner Name: Owner Phone:	Quote Name: ENCLOSED PORCH Order Number: 189 Quote Number: 14437172 Order Type: Non-Installed Sales Wall Depth: Payment Terms: Tax Code: MISALESTAX Cust Delivery Date: None Quoted Date: 8/9/2021 Contracted Date: Booked Date: Customer PO #:

Customer Notes: 2021 PELLA RESERVE

YOUR COST AS SHOWN

9/17/21 Revised window order - exterior color: brown sash and screen frames

EXTERIOR- BROWN (DARK)
INTERIOR- UNFINISHED (FOR PREFIN WHITE ADD \$4700)
HARDWARE- VERIFY
SCREEN- BROWN
GRILL SDL 7/8" OGEE/ GLAZE
GLASS- ADV. LOW E W/ ARGON
JAMB EXT- 6 9/16" ATTACHED

Line #	Location:	Attributes		
10	Porch Addition	Pella® Reserve, Traditional, 2-Wide Double Hung, 47 X 77, Brown		
			Item Price	Qty
			\$2,470.90	6
				Ext'd Price
				\$14,825.40
	 <p>23 1/2" x 77"</p> <p>Viewed From Exterior</p>	<p>PK # 2095</p> <p>1: Traditional, 23.577 Double Hung, Equal Frame Size: 23 1/2 X 77 General Information: Standard, Luxury, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Painted, Standard Enduraclad, Brown Interior Color / Finish: Unfinished Interior Sash / Panel: Ogee, Ogee, Standard, No Sash Lugs Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Cam-Action Lock, White, No Window Opening Control Device, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor Screen: Full Screen, Standard EnduraClad, Brown, Standard, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-232-00255-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 20.125, Clear Opening Height 34.062, Clear Opening Area 4.760401, Egress Does not meet typical United States egress, but may comply with local code requirements Grille: ILT, No Custom Grille, 7/8", Traditional (3W3H / 0W0H), Ogee, Ogee Vertical Mull 1: FactoryMull, Standard Joining Mullion, Frame To Frame Width- 0", Mull Design Pressure- 20</p> <p>2: Traditional, 23.577 Double Hung, Equal Frame Size: 23 1/2 X 77 General Information: Standard, Luxury, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Painted, Standard Enduraclad, Brown Interior Color / Finish: Unfinished Interior Sash / Panel: Ogee, Ogee, Standard, No Sash Lugs Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Cam-Action Lock, White, No Window Opening Control Device, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor Screen: Full Screen, Standard EnduraClad, Brown, Standard, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-232-00255-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 20.125, Clear Opening Height 34.062, Clear Opening Area 4.760401, Egress Does not meet typical United States egress, but may comply with local code requirements Grille: ILT, No Custom Grille, 7/8", Traditional (3W3H / 0W0H), Ogee, Ogee Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 6 9/16", 7 7/8", Standard Four Sided Jamb Extension, Factory Applied, Pella Recommended Clearance, Perimeter Length = 248".</p>		

Rough Opening: 47 - 3/4" X 77 - 3/4"

Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
11	Porch Addition	Pella® Reserve, Traditional, 2-Wide Sash Set, 47 X 17, Brown	\$930.21	8	\$7,441.68




PK #
2095

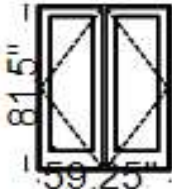
Viewed From Exterior

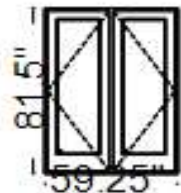
1: Traditional, 23.517 Fixed Sash Set
 Frame Size: 23 1/2 X 17
 General Information: Standard, Clad, Pine, 5", 3 11/16"
 Exterior Color / Finish: Painted, Standard Enduraclad, Brown
 Interior Color / Finish: Unfinished Interior
 Sash / Panel: Ogee, Ogee, Standard
 Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude
 Performance Information: U-Factor 0.28, SHGC 0.27, VLT 0.50, CPD PEL-N-1-53758-00002, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 11
 Grille: ILT, No Custom Grille, 7/8", Traditional (3W1H), Ogee, Ogee
 Vertical Mull 1: FactoryMull, Standard Joining Mullion, Frame To Frame Width- 0", Mull Design Pressure- 20
 2: Traditional, 23.517 Fixed Sash Set
 Frame Size: 23 1/2 X 17
 General Information: Standard, Clad, Pine, 5", 3 11/16"
 Exterior Color / Finish: Painted, Standard Enduraclad, Brown
 Interior Color / Finish: Unfinished Interior
 Sash / Panel: Ogee, Ogee, Standard
 Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude
 Performance Information: U-Factor 0.28, SHGC 0.27, VLT 0.50, CPD PEL-N-1-53758-00002, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 11
 Grille: ILT, No Custom Grille, 7/8", Traditional (3W1H), Ogee, Ogee
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 6 9/16", 7 7/8", Standard Four Sided Jamb Extension, Factory Applied, Pella
 Recommended Clearance, Perimeter Length = 128".

Rough Opening: 47 - 3/4" X 17 - 3/4"

Line #	Location:	Attributes		
15	Porch Addition	Pella® Reserve, Traditional, 2-Wide Double Hung, 47 X 77, Brown	<u>Item Price</u>	<u>Qty</u>
			\$2,603.34	1
				<u>Ext'd Price</u>
				\$2,603.34
		<p>PK # 2095</p> <p>1: Traditional, 23.577 Double Hung, Equal Frame Size: 23 1/2 X 77 General Information: Standard, Luxury, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Painted, Standard Enduraclad, Brown Interior Color / Finish: Unfinished Interior Sash / Panel: Ogee, Ogee, Standard, No Sash Lugs Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Cam-Action Lock, White, No Window Opening Control Device, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor Screen: Full Screen, Standard EnduraClad, Brown, Standard, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-232-00255-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 20.125, Clear Opening Height 34.062, Clear Opening Area 4.760401, Egress Does not meet typical United States egress, but may comply with local code requirements Grille: ILT, No Custom Grille, 7/8", Traditional (3W3H / 0W0H), Ogee, Ogee Vertical Mull 1: FactoryMull, Standard Joining Mullion, Frame To Frame Width- 0", Mull Design Pressure- 20</p> <p>2: Traditional, 23.577 Double Hung, Equal Frame Size: 23 1/2 X 77 General Information: Standard, Luxury, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Painted, Standard Enduraclad, Brown Interior Color / Finish: Unfinished Interior Sash / Panel: Ogee, Ogee, Standard, No Sash Lugs Glass: Insulated Dual Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Cam-Action Lock, White, No Window Opening Control Device, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor Screen: Full Screen, Standard EnduraClad, Brown, Standard, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-232-00259-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 20.125, Clear Opening Height 34.062, Clear Opening Area 4.760401, Egress Does not meet typical United States egress, but may comply with local code requirements Grille: ILT, No Custom Grille, 7/8", Traditional (3W3H / 0W0H), Ogee, Ogee Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 6 9/16", 7 7/8", Standard Four Sided Jamb Extension, Factory Applied, Pella Recommended Clearance, Perimeter Length = 248".</p>		

Rough Opening: 47 - 3/4" X 77 - 3/4"

Line #	Location:	Attributes			
20	Porch Addition	<div></div> <div><p>Pella® Reserve, Traditional, Double Outswing Door, Active / Passive, 59.25 X 81.5, Brown</p><p>1: Traditional, 6082 Active / Passive Double Outswing Door Frame Size: 59 1/4 X 81 1/2 General Information: Standard, Clad, Pine, 5 7/8", 4 9/16", Standard Sill, Black Finish Sill, Standard Frame Stops, Black Composite Threshold Exterior Color / Finish: Painted, Standard Enduraclad, Brown Interior Color / Finish: Unfinished Interior Sash / Panel: Ogee, Ogee, Standard Glass: Insulated Dual Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Standard, Satin Nickel, Order Handle Set, Multipoint Lock, No Integrated Sensor, Aluminum Adjustable, Brown Performance Information: U-Factor 0.28, SHGC 0.21, VLT 0.39, CPD PEL-N-212-02861-00001, Performance Class LC, PG 70, Calculated Positive DP Rating 70, Calculated Negative DP Rating 70, Year Rated 11 Grille: No Grille, Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 6 9/16", 7 7/8", Factory Applied, Pella Recommended Clearance, Perimeter Length = 282"</p></div>	<div>Item Price</div> <div>\$3,744.21</div>	<div>Qty</div> <div>1</div>	<div>Ext'd Price</div> <div>\$3,744.21</div>
	PK # 2095				


 PK #
2095

Viewed From Exterior

Rough Opening: 60" X 82"


Line #	Location:	Attributes		
25	Porch Addition	<div><div><div>17"</div><div>29.50253025"</div></div><div><div>PK #</div><div>2095</div></div><div><div>Viewed From Exterior</div></div></div> <div><div><div><div><div><div>Pella® Reserve, Traditional, 2-Wide Sash Set, 59.25 X 17, Brown</div></div></div><div><div>1: Traditional, 29.62517 Fixed Sash Set</div><div>Frame Size: 29 5/8 X 17</div><div>General Information: Standard, Clad, Pine, 5", 3 11/16"</div><div>Exterior Color / Finish: Painted, Standard Enduraclad, Brown</div><div>Interior Color / Finish: Unfinished Interior</div><div>Sash / Panel: Ogee, Ogee, Standard</div><div>Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude</div><div>Performance Information: U-Factor 0.28, SHGC 0.27, VLT 0.50, CPD PEL-N-1-53758-00002, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 11</div><div>Grille: ILT, No Custom Grille, 7/8", Traditional (4W1H), Ogee, Ogee</div><div>Vertical Mull 1: FactoryMull, Standard Joining Mullion, Frame To Frame Width- 0", Mull Design Pressure- 20</div><div>2: Traditional, 29.62517 Fixed Sash Set</div><div>Frame Size: 29 5/8 X 17</div><div>General Information: Standard, Clad, Pine, 5", 3 11/16"</div><div>Exterior Color / Finish: Painted, Standard Enduraclad, Brown</div><div>Interior Color / Finish: Unfinished Interior</div><div>Sash / Panel: Ogee, Ogee, Standard</div><div>Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude</div><div>Performance Information: U-Factor 0.28, SHGC 0.27, VLT 0.50, CPD PEL-N-1-53758-00002, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 11</div><div>Grille: ILT, No Custom Grille, 7/8", Traditional (4W1H), Ogee, Ogee</div><div>Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 6 9/16", 7 7/8", Standard Four Sided Jamb Extension, Factory Applied, Pella Recommended Clearance, Perimeter Length = 153".</div></div></div></div></div> <div><div><div>Item Price</div><div>\$1,281.06</div></div><div><div>Qty</div><div>1</div></div><div><div>Ext'd Price</div><div>\$1,281.06</div></div></div>		


 PK #
2095

Viewed From Exterior

Rough Opening: 60" X 17.75"

For more information regarding the finishing, maintenance, service and warranty of all Pella® products, visit the Pella® website at www.pella.com

Line #	Location:	Attributes		
30	Porch Addition	Pella® Reserve, Traditional, 2-Wide Double Hung, 47 X 77, Brown	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$2,856.74	1 \$2,856.74
	 <p>Viewed From Exterior</p>	<p>PK # 2095</p> <p>1: Traditional, 23.577 Double Hung, Equal Frame Size: 23 1/2 X 77 General Information: Standard, Luxury, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Painted, Standard Enduraclad, Brown Interior Color / Finish: Prefinished White Paint Interior Sash / Panel: Ogee, Ogee, Standard, No Sash Lugs Glass: Insulated Dual Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Cam-Action Lock, White, No Window Opening Control Device, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor Screen: Full Screen, Standard EnduraClad, Brown, Standard, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-232-00259-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 20.125, Clear Opening Height 34.062, Clear Opening Area 4.760401, Egress Does not meet typical United States egress, but may comply with local code requirements Grille: ILT, No Custom Grille, 7/8", Traditional (3W3H / 0W0H), Ogee, Ogee Vertical Mull 1: FactoryMull, Standard Joining Mullion, Frame To Frame Width- 0", Mull Design Pressure- 20</p> <p>2: Traditional, 23.577 Double Hung, Equal Frame Size: 23 1/2 X 77 General Information: Standard, Luxury, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Painted, Standard Enduraclad, Brown Interior Color / Finish: Prefinished White Paint Interior Sash / Panel: Ogee, Ogee, Standard, No Sash Lugs Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Cam-Action Lock, White, No Window Opening Control Device, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor Screen: Full Screen, Standard EnduraClad, Brown, Standard, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-232-00255-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 20.125, Clear Opening Height 34.062, Clear Opening Area 4.760401, Egress Does not meet typical United States egress, but may comply with local code requirements Grille: ILT, No Custom Grille, 7/8", Traditional (3W3H / 0W0H), Ogee, Ogee Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 6 9/16", 7 7/8", Standard Four Sided Jamb Extension, Factory Applied, Pella Recommended Clearance, Perimeter Length = 248".</p>		

Rough Opening: 47 - 3/4" X 77 - 3/4"

Line #	Location:	Attributes		
35	Shed	Pella® Reserve, Traditional, Sash Set, Fixed Springline, 18 X 29, Brown		
ame Radius =			Item Price	Qty
			\$2,976.28	3
				Ext'd Price
				\$8,928.84
		PK # 2095 1: Traditional, 1829 Fixed Sash Set Springline Frame Size: 18 X 29 X 20 General Information: Standard, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Painted, Standard Enduraclad, Brown Interior Color / Finish: Unfinished Interior Sash / Panel: Ogee, Ogee, Standard Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Performance Information: U-Factor 0.27, SHGC 0.26, VLT 0.49, CPD PEL-N-1-54501-00002, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 11 Grille: ILT, No Custom Grille, 7/8", Traditional (2W4H), Ogee, Ogee Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 6 9/16", 7 7/8", Standard Four Sided Jamb Extension, Factory Applied, Pella Recommended Clearance, Perimeter Length = 87".		

Rough Opening: 18 - 3/4" X 29 - 3/4"

Customer Notes: Minimum width 24" for Direct Set and 18" for Sash Set

Thank You For Purchasing Pella® Products

PELLA WARRANTY:

Pella products are covered by Pella's limited warranties in effect at the time of sale. All applicable product warranties are incorporated into and become a part of this contract. Please see the warranties for complete details, taking special note of the two important notice sections regarding installation of Pella products and proper management of moisture within the wall system. Neither Pella Corporation nor the Seller will be bound by any other warranty unless specifically set out in this contract. However, Pella Corporation will not be liable for branch warranties which create obligations in addition to or obligations which are inconsistent with Pella written warranties.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen [or any other accessory] to the product. You should consult your local building code to ensure your Pella products meet local egress requirements.

Per the manufacturer's limited warranty, unfinished mahogany exterior windows and doors must be finished upon receipt prior to installing and refinished annually, thereafter. Variations in wood grain, color, texture or natural characteristics are not covered under the limited warranty.

INSYNCTIVE PRODUCTS: In addition, Pella Insynctive Products are covered by the Pella Insynctive Products Software License Agreement and Pella Insynctive Products Privacy Policy in effect at the time of sale, which can be found at [Insynctive.pella.com](https://www.pella.com/insynctive). By installing or using Your Insynctive Products you are acknowledging the Insynctive Software Agreement and Privacy Policy are part of the terms of sale.

Notice of Collection of Personal Information: We may collect your personal information when you interact with us. Under the California Consumer Privacy Act (CCPA), California residents have specific rights to request this information, request to delete this information, and opt out of the sharing or sale of this information to third parties. To learn more about our collection practices and your rights under the CCPA please visit our link <https://www.pella.com/california-rights-policy/> at [pella.com](https://www.pella.com).

ARBITRATION AND CLASS ACTION WAIVER ("ARBITRATION AGREEMENT")

YOU and Pella and its subsidiaries and the Pella Branded Distributor AGREE TO ARBITRATE DISPUTES ARISING OUT OF OR RELATING TO YOUR PELLA PRODUCTS (INCLUDES PELLA GOODS AND PELLA SERVICES) AND WAIVE THE RIGHT TO HAVE A COURT OR JURY DECIDE DISPUTES. YOU WAIVE ALL RIGHTS TO PROCEED AS A MEMBER OR REPRESENTATIVE OF A CLASS ACTION, INCLUDING CLASS ARBITRATION, REGARDING DISPUTES ARISING OUT OF OR RELATING TO YOUR PELLA PRODUCTS. You may opt out of this Arbitration Agreement by providing notice to Pella no later than ninety (90) calendar days from the date You purchased or otherwise took ownership of Your Pella Goods. To opt out, You must send notice by e-mail to pellawebsupport@pella.com, with the subject line: "Arbitration Opt Out" or by calling (877) 473-5527. Opting out of the Arbitration Agreement will not affect the coverage provided by any applicable limited warranty pertaining to Your Pella Products. For complete information, including the full terms and conditions of this Arbitration Agreement, which are incorporated herein by reference, please visit www.pella.com/arbitration or e-mail to pellawebsupport@pella.com, with the subject line: "Arbitration Details" or call (877) 473-5527. D'ARBITRAGE ET RENONCIATION AU RECOURS COLLECTIF ("convention d'arbitrage") EN FRANÇAIS SEE [PELLA.COM/ARBITRATION](https://www.pella.com/arbitration). DE ARBITRAJE Y RENUNCIA COLECTIVA ("acuerdo de arbitraje") EN ESPAÑOL VER [PELLA.COM/ARBITRATION](https://www.pella.com/arbitration).

Seller shall not be held liable for failure or delay in the performance of its obligations under this Agreement, if such performance is hindered or delayed by the occurrence of an act or event beyond the Seller's reasonable control (force majeure event), including but not limited to earthquakes, unusually severe weather and other Acts of God, fire, strikes and labor unrest, epidemics, riots, war, civil unrest, and government interventions. Seller shall give timely notice of a force majeure event and take such reasonable action to mitigate the impacts of such an event.

Product Performance Information:

U-Factor, Solar Heat Gain Coefficient (SHGC), and Visible Light Transmittance (VLT) are certified by the National Fenestration Rating Council (NFRC).

For more information regarding the finishing, maintenance, service and warranty of all Pella® products, visit the Pella® website at www.pella.com

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any products and does not warrant the suitability of any product for any specific use.

Design Pressure (DP), Performance Class, and Performance Grade (PG) are certified by a third party organization, in many cases the Window and Door Manufacturers Association (WDMA). The certification requires the performance of at least one product of the product line to be tested in accordance with the applicable performance standards and verified by an independent party. The certification indicates that the product(s) of the product line passed the applicable tests. The certification does not apply to mulled and/or product combinations unless noted. Actual product results will vary and change over the products life.

For more performance information along with information on Florida Product Approval System (FPAS) Number and Texas Dept. of Insurance (TDI) number go to www.pella.com/performance.

Pella products are covered by Pella's limited warranties in effect at the time of sale. All applicable product warranties are incorporated into and become a part of this contract. Please see the warranties for complete details, taking special note of the two important notice sections regarding installation of Pella products and proper management of moisture within the wall system. Neither Pella Corporation nor PWD, LLC ("Pella Windows and Doors") will be bound by any other warranty unless specifically set out in this contract. However, Pella Corporation will not be liable for branch warranties which create obligations in addition to or obligations which are inconsistent with Pella written warranties.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen [or any other accessory] to the product. You should consult your local building code to ensure your Pella products meet local egress requirements.

Per the manufacturer's limited warranty, unfinished mahogany exterior windows and doors must be finished upon receipt prior to installing and refinished annually, thereafter. Variations in wood grain, color, texture or natural characteristics are not covered under the limited warranty.

GENERAL TERMS AND CONDITIONS: ACCEPTANCE: This order is subject to acceptance by an authorized agent of PWD, LLC. PRICING: All quote pricing is valid for a period of 30 days, at which time an adjustment may be made for product offering changes or transportation costs. CHANGES: Product manufactured or in process of manufacturing in accordance with the specifications, as outlined herein, cannot be returned or cancelled. Additional materials or services will be billed at the price prevailing at the time of order. INSPECTION: Buyer should carefully check material upon delivery and report any claim for product shortages or damages within 3 days. TERMS: Payment required with order unless upon approved credit. Net 30 Days on approved credit. Accounts not paid within terms are subject to finance charge of 1 ½% per month which is an annual percentage rate of 18%. LIENS: Claim of Lien is automatically filed on delinquent jobs as required by law. Waivers of Lien (partial, full or conditional) are furnished upon request after payment. PERFORMANCE: Seller shall not be liable for any consequences of delay regardless of cause. INSTALLATION: Products purchased from and installed by seller under the "Retail" program are covered by a two-year limited installation warranty. With the exception of the "Retail" program, seller shall not be liable to buyer for any damages or problems resulting from installation of Pella products. In the event that buyer has been referred to an independent contractor, including a Certified Pella Contractor, buyer assumes full responsibility for all installation matters, including the selection of the contractor. WARRANTY: Pella products are covered by Pella's limited warranties in effect at the time of sale. All applicable product warranties are incorporated into and become a part of this contract. Please see the warranties for complete details. Neither Pella Corporation nor PWD, LLC will be bound by any other warranty.

Order Checklist

PWD, LLC

Our #1 Priority is Your Satisfaction!

Pella products are made to your specifications, carefully review the details of this contract as we have a NO Return Policy.

Initial below ALL items that have been verified

Brand: _____	Brand: _____
Brand: _____	Brand: _____
Exterior Color: _____	Grilles: (Exterior/Interior) _____
Interior Stain/Finish: _____	Glazing/Glass: _____
Blinds/Shades: _____	Wall Condition: _____

Check below ALL items that have been verified/reviewed

Other Product Attributes:

☐ Reviewed Sizes on Contract _____ ☐ Window Hardware Color _____

For more information regarding the finishing, maintenance, service and warranty of all Pella® products, visit the Pella® website at www.pella.com

☐ Window Screens _____ ☐ Door Hardware/Key Cylinder _____
☐ Door Screens _____ ☐ Trim/Casing/Mull Covers _____
☐ Hinging/Sliding (exterior) _____ ☐ Tape/Foam/Caulk/Coil/Etc _____
☐ Hanging (exterior) _____ ☐ Line Items Initialed _____

Other Items Special to this order:

☐ Item #1 _____ ☐ Item #3 _____
☐ Item #2 _____ ☐ Item #4 _____

Other Information:

☐ Customer Satisfaction! _____ ☐ Product Warranty Reviewed _____
☐ No Return Policy _____ ☐ I Have Received Interior Finish Disclaimer _____
☐ Delivery Date & Special Instructions _____ ☐ Sales & Service Contact Information Reviewed _____
☐ Delivery Confirmation Process & Expectations Reviewed ☐ Service Contact Information #866-647-0570
☐ Delivery Cancellation Fee \$150 if order rejected at job site ☐ Accessory Hold Items Reviewed & Date Set _____
☐ Reschedule Fee \$75 if Cancelled within 24 hours of Scheduled Delivery ☐ Other _____

☐ I hereby authorize Pella Corporation, its affiliates and/or subsidiaries to use, reproduce, and/or publish photographs and/or video that may pertain to me and my project, including materials described below, without compensation. I understand that this material may be used in various communications (e.g. Website, e-newsletters, promotional materials, etc).

Consequently, the Corporation may publish materials, photographs, and/or make reference to the project in a manner that the Corporation or project sponsor deems appropriate.

Comments: _____

☐ Project Checklist has been reviewed

Customer Name (Please print)

Pella Sales Rep Name (Please print)

Customer Signature

Pella Sales Rep Signature

Date

Date

Credit Card Approval Signature**Order Totals**

Taxable Subtotal	\$41,681.27
Sales Tax @ 6%	\$2,500.88
Non-taxable Subtotal	\$0.00
Total	\$44,182.15
Deposit Received	\$0.00
Amount Due	\$44,182.15



Product Selection Guide

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The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, specifications are subject to change without notice. Consult your local Pella representative for up-to-date product information.



Pella® Reserve™ Traditional Hung Window

Size and Performance Data

Air/Water/Structural Performance₁

Meets or Exceeds AAMA/WDMA Ratings	H-CW30 - CW50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure) ₂	0.11
Water Resistance	4.6 - 7.5 psf
Design Pressure	30 - 50 psf

Other Performance Criteria

Forced Entry Resistance Level (Minimum Security Grade) ₃	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) ₄	40/45

Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested ₅	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
Reserve Clad Double-Hung Window	WITH INTEGRAL GRILLES						
	45" x 65"	11/16"	2.5mm	2.5mm	—	29	26
	45" x 65"	11/16"	3mm	5mm	—	34	30
	45" x 65"	11/16"	3mm	6mm Laminated	—	35	30
	WITH REMOVABLE OR NO GRILLES						
	45" x 65"	11/16"	2.5mm	2.5mm	—	28	24
	45" x 65"	11/16"	3mm	5mm	—	32	28
	45" x 65"	11/16"	3mm	6mm Laminated	—	33	28

(—) = 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) Published performance data for air infiltration is determined by testing a minimum of four (4) products of NFRC model size. Testing is conducted in accordance with ASTM E283. Air infiltration ratings for products will differ by size. The performance data does not apply to combination assemblies unless noted. Actual product performance may vary for a number of reasons including installation and product care.

(3) The higher the level, the greater the product's ability to resist forced entry.

(4) Glazing configurations may result in higher operational forces

(5) 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 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
	Low-E Tinted Glass (Bronze, Gray and Green)
	Non-Impact Laminated Dual-Pane Insulating Glass
Gas Fill/High Altitude	
Argon	High altitude
Exterior	
Exterior Sash Profile	
Ogee	Putty Glaze
Exterior Finish	
EnduraClad® aluminum-clad exterior	EnduraClad Plus protective finish, Factory Primed Pine wood exterior, Unfinished Mahogany wood exterior
Cladding Colors	
27 Standard colors ¹	Custom Colors ¹
Interior	
Unfinished wood	Factory primed
	Factory prefinished paint ¹
	Factory prefinished stain ¹
Wood Types	
Pine	Mahogany, Douglas Fir
Hardware	
Hardware Types	
Sash lifts, Cam-action lock	Simulated lock
	Air conditioner lock
	Historical spoon-style lock (surface mounted)
Hardware Finishes	
Champagne, White, Brown or Matte Black	Bright Brass, Satin Nickel, Oil-Rubbed Bronze, Antique Brass, Distressed Bronze, Distressed Nickel ⁴
Tilt-Wash Cleaning	
Tilt to interior on both sashes	–
Grilles	
Integral Light Technology® Grilles	
–	Traditional, Prairie, Top Row, Cross, New England, Victorian, Diamond, Custom
Roomside Removable Grilles	
–	Traditional, Prairie, Custom
Grilles-Between-the-Glass	
–	Traditional, Prairie, Top Row ¹ , Cross, Custom-Equally Divided
Screens	
–	Integrated Rolscreen® - retractable screen, InView™ screens, Vivid View® screens, in standard roll-form or premium extruded aluminum frame

(–) = Not Available

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

(2) Only available for Pella Reserve products with triple glazing. Not available with high altitude glazing.

(3) Available with Low-E argon-insulated glass only.

(4) Antique Brass, Distressed Nickel, Distressed Bronze finishes available for Historical spoon-style lock only.

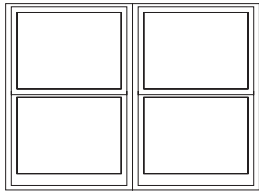


Combination Assemblies - Rectangular Units

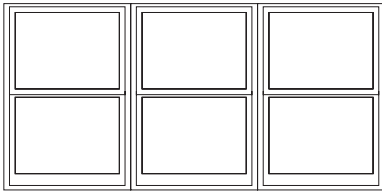
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullered together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are available factory-assembled combinations. Some units can be fixed or vent depending on availability. Refer to Combinations Section for typical combinations requirements, and limitations related to mulling various combinations.

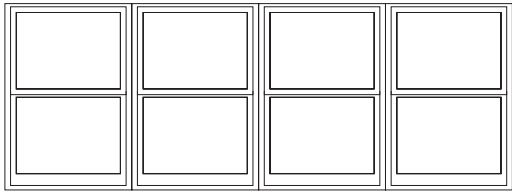
Contact your local Pella sales representative for more information.



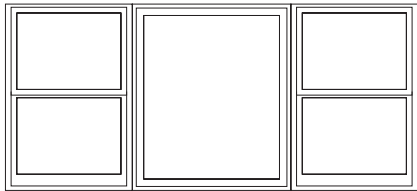
Two-Wide



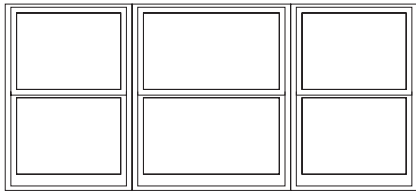
Three-Wide Equal



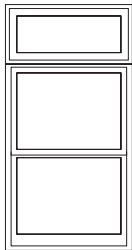
Four-Wide Equal



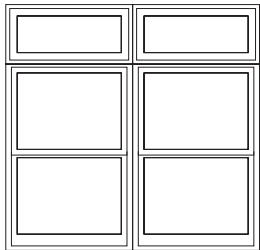
Center Fixed with Flankers



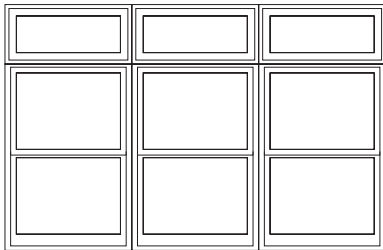
Three-Wide Unequal



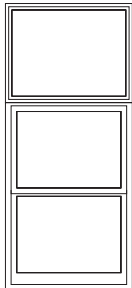
Transom over
Single



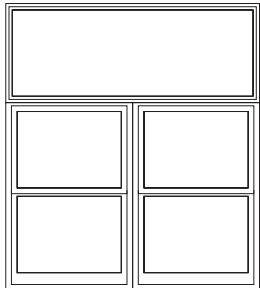
Two-Wide Transoms over
Two-Wide



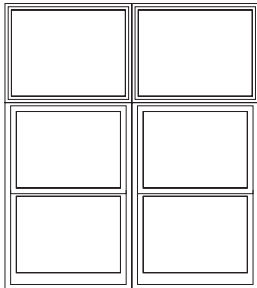
Three-Wide Transoms over
Three-Wide



Clad Frame over
Single



Single Clad Frame over
Two-Wide



Two Wide Clad Frame over
Two-Wide



Click to view Clad-Wood Combinations Sections

[Combination Recommendations Downloadable PDF](#)

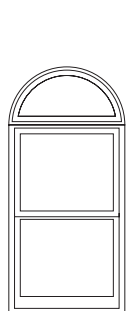


Combination Assemblies - Arch Top Units

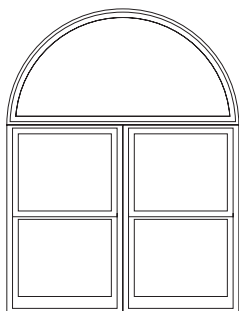
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Pella window combinations are available in an endless variety of arrangements. Below are available factory-assembled combinations. Some units can be fixed or vent depending on availability. Refer to Combinations Section for typical combinations requirements, and limitations related to mulling various combinations.

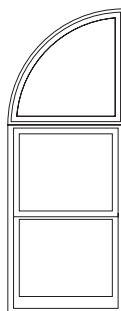
Contact your local Pella sales representative for more information.



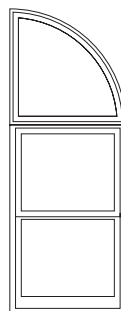
Half Circle over
Single



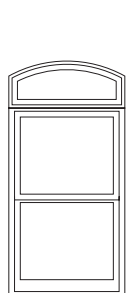
Half Circle over
Two-Wide



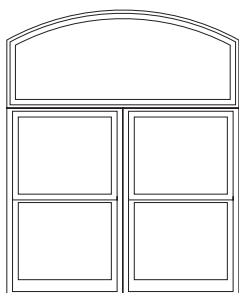
Left Quarter Circle
over Single



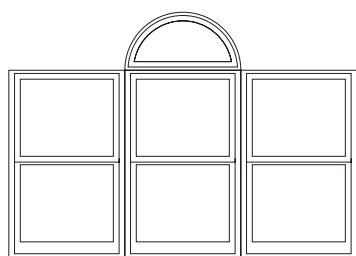
Right Quarter Circle
over Single



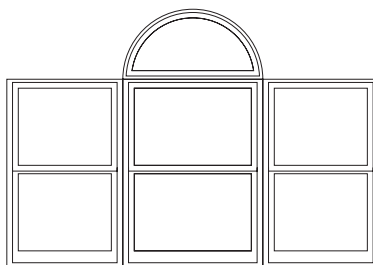
Arch Head over
Single



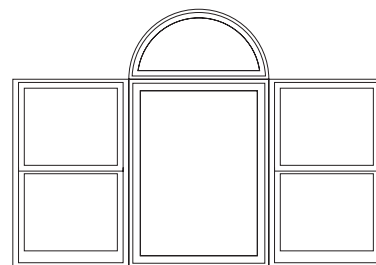
Arch Head over
Two-Wide



Half Circle centered on
Three-Wide Equal



Half Circle over
Three-Wide Unequal



Half Circle over
Center Fixed with Flankers



[Click to view Clad-Wood Combinations Sections](#)

[Combination Recommendations Downloadable PDF](#)



Pella® Reserve™ Traditional 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.				Canada ₂	
										Zone				ER	Zone
Vent Dual-Pane Glazing - Aluminum-Clad Exterior										N	NC	SC	S	CA	
11/16"	Clear IG	PEL-N-232-00217-00001	2.5	2.5	Air	0.46	0.59	0.62	44						
	with grilles-between-the-glass	PEL-N-232-00218-00001				0.46	0.53	0.55	44						
	with integral grilles	PEL-N-232-00219-00001				0.46	0.53	0.55	44						
11/16"	Clear IG	PEL-N-232-00221-00001	3	3	Air	0.46	0.58	0.61	44						
	with grilles-between-the-glass	PEL-N-232-00222-00001				0.46	0.52	0.54	44						
	with integral grilles	PEL-N-232-00223-00001				0.46	0.52	0.54	44						
11/16"	Advanced Low-E IG	PEL-N-232-00253-00001	2.5	2.5	Argon	0.29	0.28	0.53	60		NC				
	with grilles-between-the-glass	PEL-N-232-00254-00001				0.29	0.25	0.47	60		NC	SC	S		
	with integral grilles	PEL-N-232-00255-00001				0.29	0.25	0.47	60		NC	SC	S		
11/16"	Advanced Low-E IG	PEL-N-232-00257-00001	3	3	Argon	0.29	0.28	0.52	59		NC				
	with grilles-between-the-glass	PEL-N-232-00258-00001				0.29	0.25	0.46	59		NC	SC	S		
	with integral grilles	PEL-N-232-00259-00001				0.29	0.25	0.46	59		NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-232-00301-00001	2.5	2.5	Argon	0.28	0.21	0.49	60		NC	SC	S		
	with grilles-between-the-glass	PEL-N-232-00302-00001				0.28	0.19	0.43	60		NC	SC	S		
	with integral grilles	PEL-N-232-00303-00001				0.29	0.19	0.43	60		NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-232-00305-00001	3	3	Argon	0.28	0.21	0.48	60		NC	SC	S		
	with grilles-between-the-glass	PEL-N-232-00306-00001				0.28	0.19	0.43	60		NC	SC	S		
	with integral grilles	PEL-N-232-00307-00001				0.29	0.19	0.43	60		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00277-00001	2.5	2.5	Argon	0.25	0.27	0.51	49	N	NC				
	with grilles-between-the-glass	PEL-N-232-00278-00001				0.25	0.25	0.46	49	N	NC	SC	S		
	with integral grilles	PEL-N-232-00279-00001				0.26	0.25	0.46	49	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00281-00001	3	3	Argon	0.25	0.27	0.51	48	N	NC				
	with grilles-between-the-glass	PEL-N-232-00282-00001				0.25	0.25	0.45	48	N	NC	SC	S		
	with integral grilles	PEL-N-232-00283-00001				0.26	0.25	0.45	48	N	NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-232-00229-00001	2.5	2.5	Argon	0.30	0.52	0.60	60	N					
	with grilles-between-the-glass	PEL-N-232-00230-00001				0.30	0.47	0.53	60	N					
	with integral grilles	PEL-N-232-00231-00001				0.30	0.47	0.53	60	N					
11/16"	NaturalSun Low-E IG	PEL-N-232-00233-00001	3	3	Argon	0.30	0.51	0.59	59	N					
	with grilles-between-the-glass	PEL-N-232-00234-00001				0.30	0.46	0.52	59	N					
	with integral grilles	PEL-N-232-00235-00001				0.30	0.46	0.52	59	N					
Tinted Glazing															
11/16"	Bronze Advanced Low-E IG	PEL-N-232-00325-00001	5	3	Argon	0.29	0.25	0.34	48		NC	SC	S		
	with grilles-between-the-glass	PEL-N-232-00326-00001				0.31	0.22	0.30	48				S		
	with integral grilles	PEL-N-232-00327-00001				0.30	0.22	0.30	48		NC	SC	S		
11/16"	Gray Advanced Low-E IG	PEL-N-232-00333-00001	5	3	Argon	0.29	0.23	0.29	58		NC	SC	S		
	with grilles-between-the-glass	PEL-N-232-00334-00001				0.31	0.21	0.26	58				S		
	with integral grilles	PEL-N-232-00335-00001				0.30	0.21	0.26	58		NC	SC	S		
11/16"	Green Advanced Low-E IG	PEL-N-232-00341-00001	5	3	Argon	0.29	0.28	0.46	58		NC				
	with grilles-between-the-glass	PEL-N-232-00342-00001				0.31	0.25	0.25	58				S		
	with integral grilles	PEL-N-232-00343-00001				0.30	0.25	0.41	58		NC	SC	S		

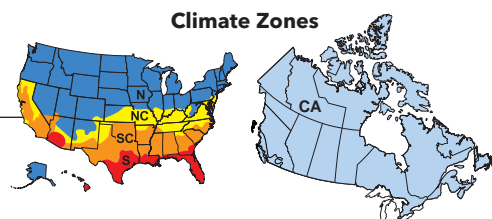
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(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.

Non Rectangular Unit thermal values will vary slightly.





Pella® Reserve™ Traditional 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.				Canada ₂	
										Zone				ER	Zone
Vent Dual-Pane High Altitude Glazing - Aluminum-Clad Exterior										N	NC	SC	S	CA	
11/16"	Advanced Low-E IG	PEL-N-232-00265-00001	2.5	2.5	Air	0.32	0.28	0.53	56						
	with grilles-between-the-glass	PEL-N-232-00265-00001				0.32	0.25	0.47	56				S		
	with integral grilles	PEL-N-232-00267-00001				0.33	0.25	0.47	56				S		
11/16"	Advanced Low-E IG	PEL-N-232-00269-00001	3	3	Air	0.32	0.28	0.52	55						
	with grilles-between-the-glass	PEL-N-232-00270-00001				0.32	0.25	0.46	55				S		
	with integral grilles	PEL-N-232-00271-00001				0.33	0.25	0.46	55				S		
11/16"	SunDefense Low-E IG	PEL-N-232-00313-00001	2.5	2.5	Air	0.32	0.21	0.49	57				S		
	with grilles-between-the-glass	PEL-N-232-00314-00001				0.32	0.19	0.43	57				S		
	with integral grilles	PEL-N-232-00315-00001				0.33	0.19	0.43	57				S		
11/16"	SunDefense Low-E IG	PEL-N-232-00317-00001	3	3	Air	0.32	0.21	0.48	56				S		
	with grilles-between-the-glass	PEL-N-232-00318-00001				0.32	0.19	0.43	56				S		
	with integral grilles	PEL-N-232-00319-00001				0.33	0.19	0.43	56				S		
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00289-00001	2.5	2.5	Air	0.27	0.28	0.51	45	N	NC				
	with grilles-between-the-glass	PEL-N-232-00290-00001				0.27	0.25	0.46	45	N	NC	SC	S		
	with integral grilles	PEL-N-232-00291-00001				0.28	0.25	0.46	45		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00293-00001	3	3	Air	0.28	0.27	0.51	44		NC				
	with grilles-between-the-glass	PEL-N-232-00294-00001				0.28	0.25	0.45	44		NC	SC	S		
	with integral grilles	PEL-N-232-00295-00001				0.28	0.25	0.45	44		NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-232-00241-00001	2.5	2.5	Air	0.33	0.52	0.60	56						
	with grilles-between-the-glass	PEL-N-232-00242-00001				0.33	0.47	0.53	56						
	with integral grilles	PEL-N-232-00243-00001				0.34	0.47	0.53	56						
11/16"	NaturalSun Low-E IG	PEL-N-232-00245-00001	3	3	Air	0.33	0.51	0.59	55						
	with grilles-between-the-glass	PEL-N-232-00246-00001				0.33	0.46	0.52	55						
	with integral grilles	PEL-N-232-00247-00001				0.34	0.46	0.52	55						

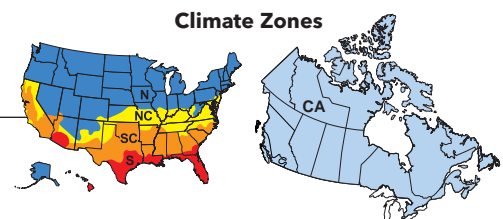
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Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

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			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada ₂	
										Zone				ER	Zone
Vent Dual-Pane Glazing - Wood Exterior										N	NC	SC	S	CA	
11/16"	Clear IG	PEL-N-234-00217-00001	2.5	2.5	Air	0.45	0.60	0.62	45						
	with grilles-between-the-glass	PEL-N-234-00218-00001				0.45	0.54	0.56	45						
	with integral grilles	PEL-N-234-00219-00001				0.45	0.54	0.56	45						
11/16"	Clear IG	PEL-N-234-00221-00001	3	3	Air	0.45	0.59	0.62	44						
	with grilles-between-the-glass	PEL-N-234-00222-00001				0.45	0.53	0.55	44						
	with integral grilles	PEL-N-234-00223-00001				0.46	0.53	0.55	44						
11/16"	Advanced Low-E IG	PEL-N-234-00253-00001	2.5	2.5	Argon	0.28	0.28	0.53	60		NC				
	with grilles-between-the-glass	PEL-N-234-00254-00001				0.28	0.25	0.47	60		NC	SC	S		
	with integral grilles	PEL-N-234-00255-00001				0.29	0.25	0.47	60		NC	SC	S		
11/16"	Advanced Low-E IG	PEL-N-234-00257-00001	3	3	Argon	0.28	0.28	0.53	59		NC				
	with grilles-between-the-glass	PEL-N-234-00258-00001				0.28	0.25	0.47	59		NC	SC	S		
	with integral grilles	PEL-N-234-00259-00001				0.29	0.25	0.47	59		NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-234-00301-00001	2.5	2.5	Argon	0.28	0.21	0.49	60		NC	SC	S		
	with grilles-between-the-glass	PEL-N-234-00302-00001				0.28	0.19	0.44	60		NC	SC	S		
	with integral grilles	PEL-N-234-00303-00001				0.28	0.19	0.44	60		NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-234-00305-00001	3	3	Argon	0.28	0.21	0.49	59		NC	SC	S		
	with grilles-between-the-glass	PEL-N-234-00306-00001				0.28	0.19	0.43	59		NC	SC	S		
	with integral grilles	PEL-N-234-00307-00001				0.28	0.19	0.43	59		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-234-00277-00001	2.5	2.5	Argon	0.24	0.28	0.52	49	N	NC				
	with grilles-between-the-glass	PEL-N-234-00278-00001				0.24	0.25	0.46	49	N	NC	SC	S		
	with integral grilles	PEL-N-234-00279-00001				0.25	0.25	0.46	49	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-234-00281-00001	3	3	Argon	0.24	0.28	0.51	48	N	NC				
	with grilles-between-the-glass	PEL-N-234-00282-00001				0.24	0.25	0.46	48	N	NC	SC	S		
	with integral grilles	PEL-N-234-00283-00001				0.25	0.25	0.46	48	N	NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-234-00229-00001	2.5	2.5	Argon	0.29	0.53	0.60	59	N				34	CA
	with grilles-between-the-glass	PEL-N-234-00230-00001				0.29	0.47	0.53	59	N					
	with integral grilles	PEL-N-234-00231-00001				0.30	0.47	0.53	59	N					
11/16"	NaturalSun Low-E IG	PEL-N-234-00233-00001	3	3	Argon	0.29	0.52	0.59	58	N					
	with grilles-between-the-glass	PEL-N-234-00234-00001				0.29	0.46	0.53	58	N					
	with integral grilles	PEL-N-234-00235-00001				0.30	0.46	0.53	58	N					
Tinted Glazing															
11/16"	Bronze Advanced Low-E IG	PEL-N-234-00325-00001	5	3	Argon	0.29	0.25	0.34	58		NC	SC	S		
	with grilles-between-the-glass	PEL-N-234-00326-00001				0.30	0.23	0.30	58		NC	SC	S		
	with integral grilles	PEL-N-234-00327-00001				0.30	0.23	0.30	58		NC	SC	S		
11/16"	Gray Advanced Low-E IG	PEL-N-234-00333-00001	5	3	Argon	0.29	0.23	0.29	58		NC	SC	S		
	with grilles-between-the-glass	PEL-N-234-00334-00001				0.30	0.21	0.26	58		NC	SC	S		
	with integral grilles	PEL-N-234-00335-00001				0.30	0.21	0.26	58		NC	SC	S		
11/16"	Green Advanced Low-E IG	PEL-N-234-00341-00001	5	3	Argon	0.29	0.28	0.46	58		NC				
	with grilles-between-the-glass	PEL-N-234-00342-00001				0.30	0.25	0.41	58		NC	SC	S		
	with integral grilles	PEL-N-234-00343-00001				0.30	0.25	0.41	58		NC	SC	S		

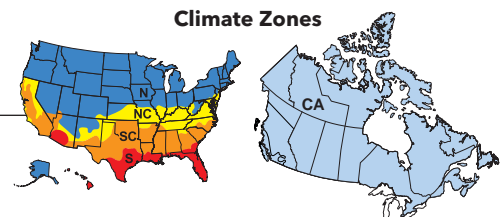
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(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.

Non Rectangular Unit thermal values will vary slightly.





Pella® Reserve™ Traditional 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.				Canada ₂	
										Zone				ER	Zone
										Vent Dual-Pane High Altitude Glazing - Wood Exterior					
11/16"	Advanced Low-E IG	PEL-N-234-00265-00001	2.5	2.5	Air	0.31	0.28	0.53	56						
	with grilles-between-the-glass	PEL-N-234-00266-00001				0.31	0.26	0.47	56						
	with integral grilles	PEL-N-234-00267-00001				0.32	0.26	0.47	56						
11/16"	Advanced Low-E IG	PEL-N-234-00269-00001	3	3	Air	0.32	0.28	0.53	55						
	with grilles-between-the-glass	PEL-N-234-00270-00001				0.32	0.26	0.47	55						
	with integral grilles	PEL-N-234-00271-00001				0.33	0.26	0.47	55						
11/16"	SunDefense Low-E IG	PEL-N-234-00313-00001	2.5	2.5	Air	0.31	0.21	0.49	56				S		
	with grilles-between-the-glass	PEL-N-234-00314-00001				0.31	0.19	0.44	56				S		
	with integral grilles	PEL-N-234-00315-00001				0.32	0.19	0.44	56				S		
11/16"	SunDefense Low-E IG	PEL-N-234-00317-00001	3	3	Air	0.31	0.21	0.49	55				S		
	with grilles-between-the-glass	PEL-N-234-00318-00001				0.31	0.19	0.43	55				S		
	with integral grilles	PEL-N-234-00319-00001				0.32	0.19	0.43	55				S		
11/16"	AdvancedComfort Low-E IG	PEL-N-234-00289-00001	2.5	2.5	Air	0.27	0.28	0.52	45	N	NC				
	with grilles-between-the-glass	PEL-N-234-00290-00001				0.27	0.25	0.46	45	N	NC	SC	S		
	with integral grilles	PEL-N-234-00291-00001				0.27	0.25	0.46	45	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-234-00293-00001	3	3	Air	0.27	0.28	0.51	44	N	NC				
	with grilles-between-the-glass	PEL-N-234-00294-00001				0.27	0.25	0.46	44	N	NC	SC	S		
	with integral grilles	PEL-N-234-00295-00001				0.28	0.25	0.46	44		NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-234-00241-00001	2.5	2.5	Air	0.32	0.53	0.60	56						
	with grilles-between-the-glass	PEL-N-234-00242-00001				0.32	0.47	0.53	56						
	with integral grilles	PEL-N-234-00243-00001				0.33	0.47	0.53	56						
11/16"	NaturalSun Low-E IG	PEL-N-234-00245-00001	3	3	Air	0.32	0.52	0.59	55						
	with grilles-between-the-glass	PEL-N-234-00246-00001				0.32	0.46	0.53	55						
	with integral grilles	PEL-N-234-00247-00001				0.33	0.46	0.53	55						

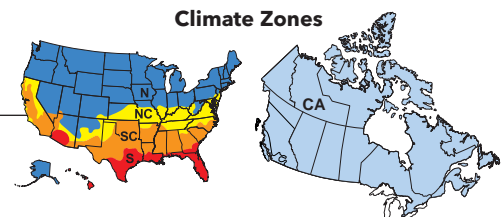
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(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.

Non Rectangular Unit thermal values will vary slightly.

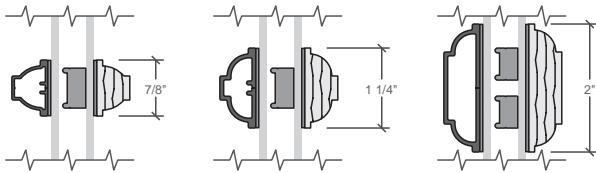




Integral Light Technology® Grilles

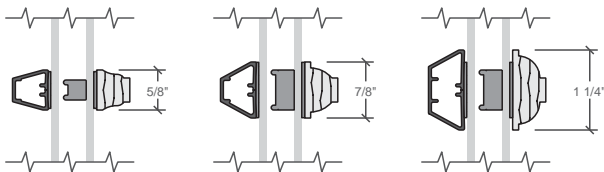
Ogee Grilles

Clad Exterior - Wood Interior



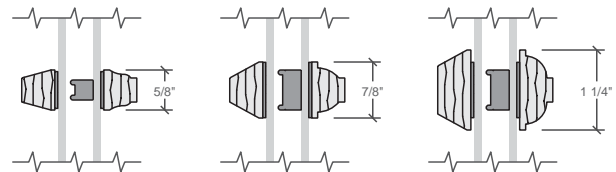
Putty Glaze and Ogee Grilles

Clad Exterior - Wood Interior

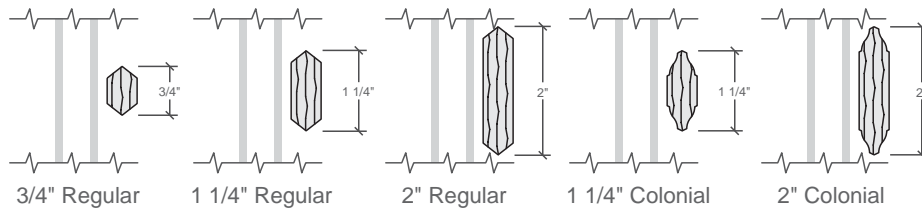


Putty Glaze and Ogee Grilles

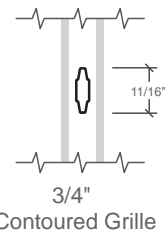
Wood Exterior - Wood Interior



Roomside Removable Grilles



Grilles-Between-the-Glass

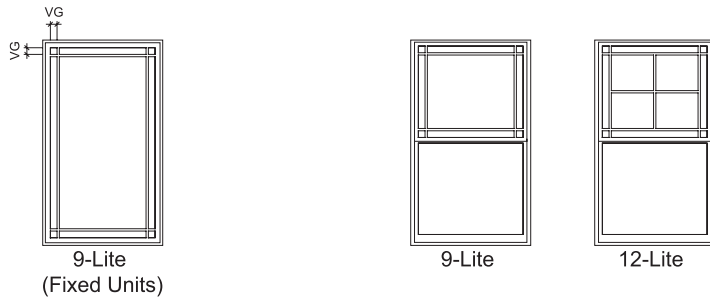


Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.



Integral light technology® Grilles and Roomside Removable Grilles

Prairie Lite Patterns

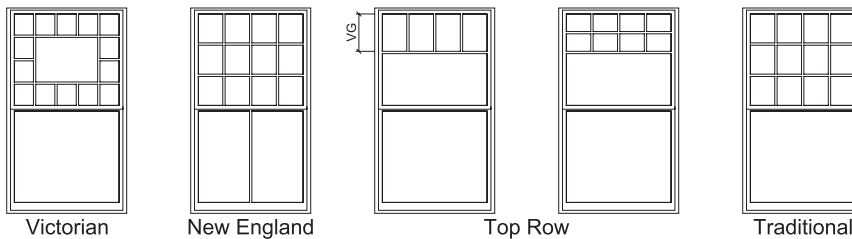


Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

Available in transoms ≥ 1'3" height and width.

Available in all standard and special sizes.

Other Available Patterns

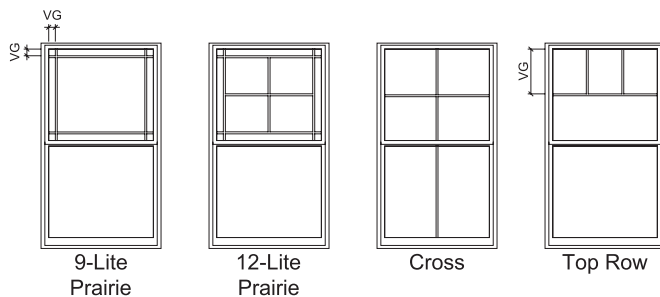


VG = Visible Glass

Lite dimensions noted can vary.

For size and pattern availability contact your local Pella sales representative.

Grilles-Between-the-Glass



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

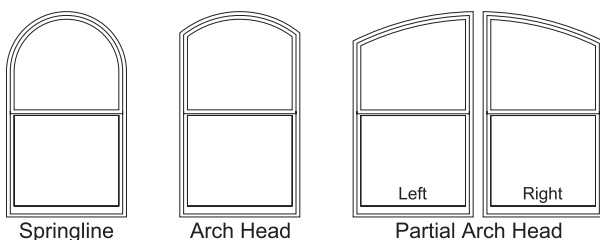
- Minimum DH frame height 35".

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

For traditional patterns, see size tables.

Custom shapes

Pella Reserve single-hung windows are available in custom shapes shown below, and additional shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.





Pella® Reserve™ Traditional Hung Window

Size Tables - Equal Sash

Fixed Transoms

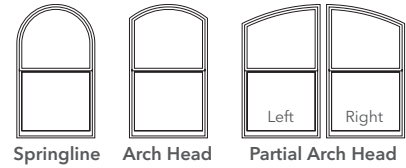
	(552) (533)	(654) (635)	(756) (737)	(857) (838)	(959) (940)	(1 060) (1 041)	(1 162) (1 143)	(1 238) (1 219)
Opening	1' 9 3/4"	2' 1 3/4"	2' 5 3/4"	2' 9 3/4"	3' 1 3/4"	3' 5 3/4"	3' 9 3/4"	4' 0 3/4"
Frame	1' 9"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"	3' 9"	4' 0"
1' 2"	2114	2514	2914	3314	3714	4114	4514	4814
1' 5"	2117	2517	2917	3317	3717	4117	4517	4817
2' 1"	2125	2525	2925	3325	3725	4125	4525	4825

Vent Units

	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 467) (1 448)	(1 518) (1 499)	(1 670) (1 651)	(1 822) (1 803)	(1 975) (1 956)	(2 153) (2 134)
Opening	2' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 9 3/4"	4' 11 3/4"	5' 5 3/4"	5' 11 3/4"	6' 5 3/4"	7' 0 3/4"
Frame	2' 11"	3' 5"	3' 11"	4' 5"	4' 9"	4' 11"	5' 5"	5' 11"	6' 5"	7' 0"
2' 11"	2135	2535	2935	3335	3735	4135	4535	4835		
3' 5"	2141	2541	2941	3341	3741	4141	4541	4841		
3' 11"	2147	2547	2947	3347	3747	4147	4547	4847		
4' 5"	2153	2553	2953	3353	3753	4153	4553	4853		
4' 9"	2157	2557	2957	3357	3757	4157	4557	4857		
4' 11"	2159	2559	2959	3359	3759	4159	4559	4859		
5' 5"	2165	2565	2965	3365	3765	4165	4565	4865		
5' 11"	2171	2571	2971	3371	3771	4171	4571	4871		
6' 5"	2177	2577	2977	3377	3777	4177	4577	4877		
7' 0"	2184	2584	2984	3384	3784	4184	4584	4884		

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella Reserve single-hung windows are available in shapes shown above, and additional custom shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.

Opening Dimensions

Clad Exterior Units:

Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:

Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+ 1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+ 1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

































Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. You should consult your local building code to ensure products with Rolcreens meet egress requirements.



Pella® Reserve™ Traditional Hung Window

Size Tables - Fixed

Fixed Units

		(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening		3' 5 ³ / ₄ "	3' 11 ³ / ₄ "	4' 5 ³ / ₄ "	4' 11 ³ / ₄ "
Frame		3' 5"	3' 11"	4' 5"	4' 11"
(908) (889)	2' 11 ³ / ₄ "	 4135	 4735	 5335	 5935
(1 060) (1 041)	3' 5 ³ / ₄ "	 4141	 4741	 5341	 5941
(1 213) (1 194)	3' 11 ³ / ₄ "	 4147	 4747	 5347	 5947
(1 365) (1 346)	4' 5 ³ / ₄ "	 4153	 4753	 5353	 5953
(1 467) (1 448)	4' 9 ³ / ₄ "	 4157	 4757	 5357	 5957
(1 518) (1 499)	4' 11 ³ / ₄ "	 4159	 4759	 5359	 5959
(1 670) (1 651)	5' 5 ³ / ₄ "	 4165	 4765	 5365	 5965
(1 822) (1 803)	5' 11 ³ / ₄ "	 4171	 4771	 5371	 5971

Opening Dimensions

Clad Exterior Units:

Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:

Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
	Width	Height	Width	Height
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Grille patterns will align with companion hung window with equal sash split.

5-lite high grille patterns may be ordered in 5'5" fixed units to match cottage sash vent units.

















































































































Grilles are equally-divided on fixed units with odd-number lites high.



Pella® Reserve™ Traditional Hung Window

Size Tables - Cottage Sash

VENT UNITS

		(552) (533)	(654) (635)	(756) (737)	(857) (838)	(959) (940)	(1 060) (1 041)	(1 162) (1 143)	(1 238) (1 219)
Opening		1' 9 3/4"	2' 1 3/4"	2' 5 3/4"	2' 9 3/4"	3' 1 3/4"	3' 5 3/4"	3' 9 3/4"	4' 0 3/4"
Frame		1' 9"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"	3' 9"	4' 0"
(1 060) (1 041)	3' 5 3/4"	 VG2141	 VG2541	 VG2941	 VG3341	 VG3741	 VG4141	 VG4541	 VG4841
	3' 11 1/4"	 VG2147	 VG2547	 VG2947	 VG3347	 VG3747	 VG4147	 VG4547	 VG4847
(1 213) (1 194)	3' 11 1/4"	 VG2147	 VG2547	 VG2947	 VG3347	 VG3747	 VG4147	 VG4547	 VG4847
	4' 5"	 VG2153	 VG2553	 VG2953	 VG3353	 VG3753	 VG4153	 VG4553	 VG4853
(1 365) (1 346)	4' 5 3/4"	 VG2153	 VG2553	 VG2953	 VG3353	 VG3753	 VG4153	 VG4553	 VG4853
	4' 9"	 VG2157	 VG2557	 VG2957	 VG3357	 VG3757	 VG4157	 VG4557	 VG4857
(1 467) (1 448)	4' 9 3/4"	 VG2157	 VG2557	 VG2957	 VG3357	 VG3757	 VG4157	 VG4557	 VG4857
	4' 11"	 VG2159	 VG2559	 VG2959	 VG3359	 VG3759	 VG4159	 VG4559	 VG4859
(1 518) (1 499)	4' 11 1/4"	 VG2159	 VG2559	 VG2959	 VG3359	 VG3759	 VG4159	 VG4559	 VG4859
	5' 5"	 VG2165	 VG2565	 VG2965	 VG3365	 VG3765	 VG4165	 VG4565	 VG4865
(1 670) (1 651)	5' 5 3/4"	 VG2165	 VG2565	 VG2965	 VG3365	 VG3765	 VG4165	 VG4565	 VG4865
	5' 11"	 VG2171	 VG2571	 VG2971	 VG3371	 VG3771	 VG4171	 VG4571	 VG4871
(1 822) (1 803)	5' 11 3/4"	 VG2171	 VG2571	 VG2971	 VG3371	 VG3771	 VG4171	 VG4571	 VG4871
	6' 5"	 VG2177	 VG2577	 VG2977	 VG3377	 VG3777	 VG4177	 VG4577	 VG4877

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Roloscreen (or any other accessory) to the product. You should consult your local building code to ensure products with Roloscreens meet egress requirements.

Opening Dimensions

Clad Exterior Units:

Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:

Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood sub sill.

Frame	Rough		Masonry	
	Width	Height	Width	Height
Brickmould				
STD	+ 3/4"	+ 1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+ 1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Cottage units have unequal sash split. Sash glass ratio is 40% upper sash to 60% Lower sash.

Vent variable units have unequal sash split. Sash glass ratio is determined by checkrail heights. See unit sections for dimension requirements.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Equal Sash Sizes

Transoms

	(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening	2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(375) (356)	1' 2 3/4"						
(451) (432)	1' 5 3/4"						
(654) (635)	2' 1 3/4"						
	23.5 x 14	27.5 x 14	29.5 x 14	31.5 x 14	35.5 x 14	39.5 x 14	41.5 x 14
	23.5 x 17	27.5 x 17	29.5 x 17	31.5 x 17	35.5 x 17	39.5 x 17	41.5 x 17
	23.5 x 25	27.5 x 25	29.5 x 25	31.5 x 25	35.5 x 25	39.5 x 25	41.5 x 25

Vent Units

(921) (902)	3' 0 1/4"	2' 11 1/2"					
(972) (953)	3' 2 1/4"	3' 1 1/2"					
(1 073) (1 054)	3' 6 1/4"	3' 5 1/2"					
(1 175) (1 156)	3' 10 1/4"	3' 9 1/2"					
(1 226) (1 206)	4' 0 1/4"	3' 11 1/2"					
(1 327) (1 308)	4' 4 1/4"	4' 3 1/2"					
(1 378) (1 359)	4' 6 1/4"	4' 5 1/2"					
(1 473) (1 461)	4' 10 1/4"	4' 9 1/2"					
	23.5 x 35.5	27.5 x 35.5	29.5 x 35.5	31.5 x 35.5	35.5 x 35.5	39.5 x 35.5	41.5 x 35.5
	23.5 x 37.5	27.5 x 37.5	29.5 x 37.5	31.5 x 37.5	35.5 x 37.5	39.5 x 37.5	41.5 x 37.5
	23.5 x 41.5	27.5 x 41.5	29.5 x 41.5	31.5 x 41.5	35.5 x 41.5	39.5 x 41.5	41.5 x 41.5
	23.5 x 45.5	27.5 x 45.5	29.5 x 45.5	31.5 x 45.5	35.5 x 45.5	39.5 x 45.5	41.5 x 45.5
	23.5 x 47.5	27.5 x 47.5	29.5 x 47.5	31.5 x 47.5	35.5 x 47.5	39.5 x 47.5	41.5 x 47.5
	23.5 x 51.5	27.5 x 51.5	29.5 x 51.5	31.5 x 51.5	35.5 x 51.5	39.5 x 51.5	41.5 x 51.5
	23.5 x 53.5	27.5 x 53.5	29.5 x 53.5	31.5 x 53.5	35.5 x 53.5	39.5 x 53.5	41.5 x 53.5
	23.5 x 57.5	27.5 x 57.5	29.5 x 57.5	31.5 x 57.5	35.5 x 57.5 E1	39.5 x 57.5 E	41.5 x 57.5 E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. You should consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.
















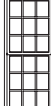






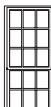





Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Sizes

Vent Units

		(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening		2' 0 1/4"	2' 4 1/4"	2' 6"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame		1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(1 530) (1 511)	5' 0 1/4"							
	4' 11 1/2"	23.5 x 59.5	27.5 x 59.5	29.5 x 59.5	31.5 x 59.5	35.5 x 59.5 E ₁	39.5 x 59.5 E	41.5 x 59.5 E
	5' 2 1/4"							
	5' 1 1/2"	23.5 x 61.5	27.5 x 61.5	29.5 x 61.5	31.5 x 61.5 E ₁	35.5 x 61.5 E	39.5 x 61.5 E	41.5 x 61.5 E
(1 683) (1 664)	5' 6 1/4"							
	5' 5 1/2"	23.5 x 65.5	27.5 x 65.5	29.5 x 65.5	31.5 x 65.5 E ₁	35.5 x 65.5 E	39.5 x 65.5 E	41.5 x 65.5 E
(1 835) (1 816)	6' 0 1/4"							
	5' 11 1/2"	23.5 x 71.5	27.5 x 71.5 E ₁	29.5 x 71.5 E ₁	31.5 x 71.5 E	35.5 x 71.5 E	39.5 x 71.5 E	41.5 x 71.5 E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. You should consult your local building code to ensure products with Rolcreens meet egress requirements.

Not to scale.





















































































Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Cottage Sash Sizes

Cottage Vent Units

		(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening		2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame		1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(1 073) (1 054)	3' 6 1/4"							
		23.5 x 41.5	27.5 x 41.5	29.5 x 41.5	31.5 x 41.5	35.5 x 41.5	39.5 x 41.5	41.5 x 41.5
	3' 10 1/4"							
		23.5 x 45.5	27.5 x 45.5	29.5 x 45.5	31.5 x 45.5	35.5 x 45.5	39.5 x 45.5	41.5 x 45.5
	4' 0 1/4"							
		23.5 x 47.5	27.5 x 47.5	29.5 x 47.5	31.5 x 47.5	35.5 x 47.5	39.5 x 47.5	41.5 x 47.5
	4' 4 1/4"							
		23.5 x 51.5	27.5 x 51.5	29.5 x 51.5	31.5 x 51.5	35.5 x 51.5	39.5 x 51.5	41.5 x 51.5
(1 378) (1 359)	4' 6 1/4"							
		23.5 x 53.5	27.5 x 53.5	29.5 x 53.5	31.5 x 53.5	35.5 x 53.5	39.5 x 53.5	41.5 x 53.5
	4' 10 1/4"							
		23.5 x 57.5	27.5 x 57.5	29.5 x 57.5	31.5 x 57.5	35.5 x 57.5	39.5 x 57.5	41.5 x 57.5
	5' 0 1/4"							
		23.5 x 59.5	27.5 x 59.5	29.5 x 59.5	31.5 x 59.5	35.5 x 59.5	39.5 x 59.5	41.5 x 59.5
	5' 2 1/4"							
		23.5 x 61.5	27.5 x 61.5	29.5 x 61.5	31.5 x 61.5	35.5 x 61.5	39.5 x 61.5	41.5 x 61.5
(1 683) (1 664)	5' 6 1/4"							
		23.5 x 65.5	27.5 x 65.5	29.5 x 65.5	31.5 x 65.5	35.5 x 65.5	39.5 x 65.5	41.5 x 65.5
	5' 10 1/4"							
		23.5 x 69.5	27.5 x 69.5	29.5 x 69.5	31.5 x 69.5	35.5 x 69.5	39.5 x 69.5	41.5 x 69.5
	6' 0 1/4"							
		23.5 x 71.5	27.5 x 71.5	29.5 x 71.5	31.5 x 71.5	35.5 x 71.5	39.5 x 71.5	41.5 x 71.5
	6' 4 1/4"							
		23.5 x 75.5	27.5 x 75.5	29.5 x 75.5	31.5 x 75.5	35.5 x 75.5	39.5 x 75.5	41.5 x 75.5

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. You should consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Fixed Sizes

Fixed Units		(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening		3' 5 ³ / ₄ "	3' 11 ³ / ₄ "	4' 5 ³ / ₄ "	4' 11 ³ / ₄ "	3' 5 ³ / ₄ "	3' 11 ³ / ₄ "	4' 5 ³ / ₄ "	4' 11 ³ / ₄ "
Frame		3' 5"	3' 11"	4' 5"	4' 11"	3' 5"	3' 11"	4' 5"	4' 11"
(1 473) (1 461)	3' 0 ¹ / ₄ "	(921) (902)				(1 530) (1 511)	3' 0 ¹ / ₄ "		
	3' 2 ¹ / ₄ "	(972) (953)					3' 2 ¹ / ₄ "		
	3' 6 ¹ / ₄ "	(1 073) (1 054)					3' 6 ¹ / ₄ "		
	3' 10 ¹ / ₄ "	(1 175) (1 156)					3' 10 ¹ / ₄ "		
	4' 0 ¹ / ₄ "	(1 226) (1 206)					4' 0 ¹ / ₄ "		
	4' 4 ¹ / ₄ "	(1 327) (1 308)					4' 4 ¹ / ₄ "		
	4' 6 ¹ / ₄ "	(1 378) (1 359)					4' 6 ¹ / ₄ "		
	4' 10 ¹ / ₄ "					(1 835) (1 816)	4' 10 ¹ / ₄ "		
	2' 11 ¹ / ₂ "						2' 11 ¹ / ₂ "		
	3' 1 ¹ / ₂ "						3' 1 ¹ / ₂ "		
	3' 5 ¹ / ₂ "						3' 5 ¹ / ₂ "		
	3' 9 ¹ / ₂ "						3' 9 ¹ / ₂ "		
	3' 11 ¹ / ₂ "						3' 11 ¹ / ₂ "		
		41 x 35.5	47 x 35.5	53 x 35.5	59 x 35.5	41 x 59.5	47 x 59.5	53 x 59.5	59 x 59.5
		41 x 37.5	47 x 37.5	53 x 37.5	59 x 37.5	41 x 61.5	47 x 61.5	53 x 61.5	59 x 61.5
		41 x 41.5	47 x 41.5	53 x 41.5	59 x 41.5	41 x 65.5	47 x 65.5	53 x 65.5	59 x 65.5
		41 x 45.5	47 x 45.5	53 x 45.5	59 x 45.5	41 x 71.5	47 x 71.5	53 x 71.5	59 x 71.5
		41 x 47.5	47 x 47.5	53 x 47.5	59 x 47.5				
		41 x 51.5	47 x 51.5	53 x 51.5	59 x 51.5				
		41 x 53.5	47 x 53.5	53 x 53.5	59 x 53.5				
		41 x 57.5	47 x 57.5	53 x 57.5	59 x 57.5				

Not to scale.
Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Special Sizes and Dimensions

Special Size Frame Dimensions*

Sash configuration	Vent-Equal	Cottage	Fixed
Sash Glass Ratio Top % : Bottom %	50 : 50	40 : 60	NA
Shortest Unit Frame Size	24-3/8" (619)	40-1/4" (1 022)	17" (432)
Tallest Unit Frame Size	96" (2 438)	81" (2 057)	71" (1 803)
Unit Frame Width Range	14" to 48" (356 to 1 219)	14" to 48" (356 to 1 219)	17" to 59" (432 to 1 499)

Opening Dimensions

Clad Exterior Units:

Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:

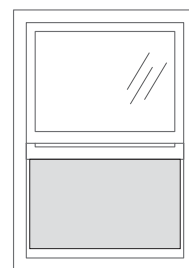
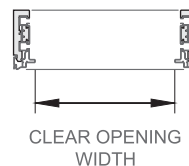
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+ 1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+ 1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Equal Sash Only

	Vent Units	Fixed and Transom Units
Visible Glass	Width = Frame - 5.647" Height = (Frame - 8.681") ÷ 2	Width = Frame - 5.75" Height = Frame - 5.75"
Actual Glass	Width = Frame - 4.375" Height = (Frame - 5.983") ÷ 2	Width = Frame - 4.375" Height = Frame - 4.375"
Clear Opening*	COW = Frame Width - 3.4375" COH = (Frame Height ÷ 2) - 4.4375"	
Vent Area Ft²	(COW x COH) ÷ 144	



Shaded portion shows vent area.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

* Some units with custom glazing may have limited travel. Integrated Rolscreen® is only available on sizes greater than or equal to 34" tall and 21" wide and less than or equal to 84" tall and 48" wide.

See your local Pella sales representative for specific size information.



Pella® Reserve™ Traditional Hung Window

Design Data

Vent Equal Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
2135		17-5/16	13-1/16	1.6	2.8	2.5	3	CW50	CW45
2141		17-5/16	16-1/16	1.9	3.4	2.5	3	CW50	CW45
2147		17-5/16	19-1/16	2.3	4.1	2.5	3	CW50	CW45
2153		17-5/16	22-1/16	2.7	4.7	2.5	3	CW50	CW45
2157		17-5/16	24-1/16	2.9	5.2	2.5	3	CW50	CW45
2159		17-5/16	25-1/16	3.0	5.4	2.5	3	CW50	CW45
2165		17-5/16	28-1/16	3.4	6.0	2.5	3	CW50	CW45
2171		17-5/16	31-1/16	3.7	6.6	2.5	3	CW50	CW45
2177		17-5/16	34-1/16	4.1	7.3	2.5	3	CW50	CW45
2184		17-5/16	37-9/16	4.5	8.0	2.5	3	CW40	CW40
2535		21-5/16	13-1/16	1.9	3.5	2.5	3	CW50	CW45
2541		21-5/16	16-1/16	2.4	4.3	2.5	3	CW50	CW45
2547		21-5/16	19-1/16	2.8	5.1	2.5	3	CW50	CW45
2553		21-5/16	22-1/16	3.3	6.0	2.5	3	CW50	CW45
2557		21-5/16	24-1/16	3.6	6.5	2.5	3	CW50	CW45
2559		21-5/16	25-1/16	3.7	6.8	2.5	3	CW50	CW45
2565		21-5/16	28-1/16	4.2	7.6	2.5	3	CW50	CW45
2571		21-5/16	31-1/16	4.6	8.4	2.5	3	CW50	CW45
2577	E ₁	21-5/16	34-1/16	5.0	9.2	2.5	3	CW50	CW45
2584	E ₁	21-5/16	37-9/16	5.6	10.1	2.5	3	CW40	CW40
2935		25-5/16	13-1/16	2.3	4.3	2.5	3	CW50	CW45
2941		25-5/16	16-1/16	2.8	5.2	2.5	3	CW50	CW45
2947		25-5/16	19-1/16	3.4	6.2	2.5	3	CW50	CW45
2953		25-5/16	22-1/16	3.9	7.2	2.5	3	CW50	CW45
2957		25-5/16	24-1/16	4.2	7.8	2.5	3	CW50	CW45
2959		25-5/16	25-1/16	4.4	8.2	2.5	3	CW50	CW45
2965		25-5/16	28-1/16	4.9	9.1	2.5	3	CW50	CW45
2971	E ₁	25-5/16	31-1/16	5.5	10.1	2.5	3	CW50	CW45
2977	E	25-5/16	34-1/16	6.0	11.1	2.5	3	CW50	CW45
2984	E	25-5/16	37-9/16	6.6	12.2	2.5	3	CW40	CW40
3335		29-5/16	13-1/16	2.7	5.0	2.5	3	CW50	CW45
3341		29-5/16	16-1/16	3.3	6.1	2.5	3	CW50	CW45
3347		29-5/16	19-1/16	3.9	7.3	2.5	3	CW50	CW45
3353		29-5/16	22-1/16	4.5	8.4	2.5	3	CW50	CW45
3357		29-5/16	24-1/16	4.9	9.2	2.5	3	CW50	CW45
3359	E ₁	29-5/16	25-1/16	5.1	9.6	2.5	3	CW50	CW45
3365	E	29-5/16	28-1/16	5.7	10.7	2.5	3	CW50	CW45
3371	E	29-5/16	31-1/16	6.3	11.8	2.5	3	CW50	CW45
3377	E	29-5/16	34-1/16	6.9	13.0	2.5	3	CW50	CW45
3384	E	29-5/16	37-9/16	7.7	14.3	2.5	3	CW40	CW40

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Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum design pressure when glazed with appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data

Vent Equal Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
3735		33-5/16	13-1/16	3.0	5.7	2.5	3	CW50	CW45
3741		33-5/16	16-1/16	3.7	7.0	2.5	3	CW50	CW45
3747		33-5/16	19-1/16	4.4	8.3	2.5	3	CW50	CW45
3753		33-5/16	22-1/16	5.1	9.6	2.5	3	CW50	CW45
3757	E ₁	33-5/16	24-1/16	5.6	10.5	2.5	3	CW50	CW45
3759	E	33-5/16	25-1/16	5.8	11.0	2.5	3	CW50	CW45
3765	E	33-5/16	28-1/16	6.5	12.3	2.5	3	CW50	CW45
3771	E	33-5/16	31-1/16	7.2	13.6	2.5	3	CW50	CW45
3777	E	33-5/16	34-1/16	7.9	14.9	2.5	3	CW50	CW45
3784	E	33-5/16	37-9/16	8.7	16.4	2.5	3	CW40	CW40
4135		37-5/16	13-1/16	3.4	6.5	2.5	3	CW50	CW45
4141		37-5/16	16-1/16	4.2	7.9	2.5	3	CW50	CW45
4147		37-5/16	19-1/16	4.9	9.4	2.5	3	CW50	CW45
4153		37-5/16	22-1/16	5.7	10.9	2.5	3	CW50	CW45
4157	E	37-5/16	24-1/16	6.2	11.9	2.5	3	CW50	CW45
4159	E	37-5/16	25-1/16	6.5	12.4	2.5	3	CW50	CW45
4165	E	37-5/16	28-1/16	7.3	13.8	2.5	3	CW50	CW45
4171	E	37-5/16	31-1/16	8.1	15.3	2.5	3	CW50	CW45
4177	E	37-5/16	34-1/16	8.8	16.8	2.5	3	CW45	CW45
4184	E	37-5/16	37-9/16	9.7	18.5	2.5	3	CW40	CW40
4535		41-5/16	13-1/16	3.7	7.2	2.5	3	CW50	CW45
4541		41-5/16	16-1/16	4.6	8.8	2.5	3	CW50	CW45
4547		41-5/16	19-1/16	5.5	10.5	2.5	3	CW50	CW45
4553		41-5/16	22-1/16	6.3	12.1	2.5	3	CW50	CW45
4557	E	41-5/16	24-1/16	6.9	13.2	2.5	3	CW50	CW45
4559	E	41-5/16	25-1/16	7.2	13.7	2.5	3	CW50	CW45
4565	E	41-5/16	28-1/16	8.1	15.4	2.5	3	CW50	CW45
4571	E	41-5/16	31-1/16	8.9	17.0	2.5	3	CW45	CW45
4577	E	41-5/16	34-1/16	9.8	18.7	2.5	3	CW45	CW45
4584	E	41-5/16	37-9/16	10.8	20.6	3	3	CW40	CW40
4835		44-5/16	13-1/16	4.0	7.7	2.5	3	CW50	CW45
4841		44-5/16	16-1/16	4.9	9.5	2.5	3	CW50	CW45
4847		44-5/16	19-1/16	5.9	11.3	2.5	3	CW50	CW45
4853		44-5/16	22-1/16	6.8	13.0	2.5	3	CW50	CW45
4857	E	44-5/16	24-1/16	7.4	14.2	2.5	3	CW50	CW45
4859	E	44-5/16	25-1/16	7.7	14.8	2.5	3	CW50	CW45
4865	E	44-5/16	28-1/16	8.6	16.6	2.5	3	CW45	CW45
4871	E	44-5/16	31-1/16	9.6	18.3	2.5	3	CW45	CW45
4877	E	44-5/16	34-1/16	10.5	20.1	3	3	CW45	CW45
4884	E	44-5/16	37-9/16	11.6	22.2	3	3	CW40	CW40

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data

Fixed				
Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
		Annealed	Tempered	
4135	7.2	2.5	3	CW50
4141	8.6	2.5	3	CW50
4147	10.1	3	3	CW50
4153	11.6	3	3	CW50
4157	12.5	3	3	CW50
4165	14.5	3	3	CW50
4171	16.0	3	3	CW45/CW50
4735	8.4	2.5	3	CW50
4741	10.1	3	3	CW50
4747	11.8	3	3	CW50
4753	13.5	3	3	CW50
4757	14.7	3	3	CW50
4759	15.3	3	3	CW50
4765	17.0	3	3	CW45/CW50
4771	18.7	4	4	CW50
5335	9.6	2.5	3	CW45/CW50
5341	11.6	3	3	CW50
5347	13.5	3	3	CW50
5353	15.5	3	4	CW45/CW50
5357	16.8	3	4	CW45/CW50
5359	17.5	3	4	CW40/CW50
5365	19.4	4	4	CW50
5371	21.4	4	4	CW50
5935	10.8	3	3	CW50
5941	13.0	3	3	CW50
5953	17.5	3	4	CW40/CW50
5957	19.0	4	4	CW50
5959	19.7	4	4	CW50
5965	21.9	4	4	CW50
5971	24.1	4	4	CW45/CW50

Transoms				
Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
		Annealed	Tempered	
2114	0.9	2.5	3	CW50
2514	1.1	2.5	3	CW50
2914	1.3	2.5	3	CW50
3314	1.6	2.5	3	CW50
3714	1.8	2.5	3	CW50
4114	2.0	2.5	3	CW50
4514	2.2	2.5	3	CW50
4814	2.4	2.5	3	CW50
2117	1.2	2.5	3	CW50
2517	1.5	2.5	3	CW50
2917	1.8	2.5	3	CW50
3317	2.1	2.5	3	CW50
3717	2.4	2.5	3	CW50
4117	2.8	2.5	3	CW50
4517	3.1	2.5	3	CW50
4817	3.3	2.5	3	CW50
2125	2.0	2.5	3	CW50
2525	2.6	2.5	3	CW50
2925	3.1	2.5	3	CW50
3325	3.6	2.5	3	CW50
3725	4.2	2.5	3	CW50
4125	4.7	2.5	3	CW50
4525	5.2	2.5	3	CW50
4825	5.6	2.5	3	CW50

(1) Maximum design pressure when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass.



Pella® Reserve™ Traditional Hung Window

Design Data

Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width	Height			Annealed	Tempered	Clad	Wood
VG2141		17-5/16	12-11/16	1.5	3.4	2.5	3	CW50	CW45
VG2147		17-5/16	15-1/16	1.8	4.1	2.5	3	CW50	CW45
VG2153		17-5/16	17-7/16	2.1	4.7	2.5	3	CW50	CW45
VG2157		17-5/16	19-1/16	2.3	5.2	2.5	3	CW50	CW45
VG2159		17-5/16	19-7/8	2.4	5.4	2.5	3	CW50	CW45
VG2165		17-5/16	22-1/4	2.7	6.0	2.5	3	CW50	CW45
VG2171		17-5/16	24-11/16	3.0	6.6	2.5	3	CW40	CW40
VG2541		21-5/16	12-11/16	1.9	4.3	2.5	3	CW50	CW45
VG2547		21-5/16	15-1/16	2.2	5.1	2.5	3	CW50	CW45
VG2553		21-5/16	17-7/16	2.6	6.0	2.5	3	CW50	CW45
VG2557		21-5/16	19-1/16	2.8	6.5	2.5	3	CW50	CW45
VG2559		21-5/16	19-7/8	2.9	6.8	2.5	3	CW50	CW45
VG2565		21-5/16	22-1/4	3.3	7.6	2.5	3	CW50	CW45
VG2571		21-5/16	24-11/16	3.7	8.4	2.5	3	CW40	CW40
VG2941		25-5/16	12-11/16	2.2	5.2	2.5	3	CW50	CW45
VG2947		25-5/16	15-1/16	2.7	6.2	2.5	3	CW50	CW45
VG2953		25-5/16	17-7/16	3.1	7.2	2.5	3	CW50	CW45
VG2957		25-5/16	19-1/16	3.4	7.8	2.5	3	CW50	CW45
VG2959		25-5/16	19-7/8	3.5	8.2	2.5	3	CW50	CW45
VG2965		25-5/16	22-1/4	3.9	9.1	2.5	3	CW50	CW45
VG2971		25-5/16	24-11/16	4.3	10.1	2.5	3	CW40	CW40
VG3341		29-5/16	12-11/16	2.6	6.1	2.5	3	CW50	CW45
VG3347		29-5/16	15-1/16	3.1	7.3	2.5	3	CW50	CW45
VG3353		29-5/16	17-7/16	3.6	8.4	2.5	3	CW50	CW45
VG3357		29-5/16	19-1/16	3.9	9.2	2.5	3	CW50	CW45
VG3359		29-5/16	19-7/8	4.1	9.6	2.5	3	CW50	CW45
VG3365		29-5/16	22-1/4	4.5	10.7	2.5	3	CW50	CW45
VG3371	E1	29-5/16	24-11/16	5.0	11.8	2.5	3	CW40	CW40

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Egress Notes:

Check all applicable local codes for emergency egress requirements.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data

Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width	Height			Annealed	Tempered	Clad	Wood
VG3741		33-5/16	12-11/16	2.9	7.0	2.5	3	CW50	CW45
VG3747		33-5/16	15-1/16	3.5	8.3	2.5	3	CW50	CW45
VG3753		33-5/16	17-7/16	4.0	9.6	2.5	3	CW50	CW45
VG3757		33-5/16	19-1/16	4.4	10.5	2.5	3	CW50	CW45
VG3759		33-5/16	19-7/8	4.6	11.0	2.5	3	CW50	CW45
VG3765		33-5/16	22-1/4	5.2	12.3	2.5	3	CW50	CW45
VG3771	E	33-5/16	24-11/16	5.7	13.6	2.5	3	CW40	CW40
VG4141		37-5/16	12-11/16	3.3	7.9	2.5	3	CW50	CW45
VG4147		37-5/16	15-1/16	3.9	9.4	2.5	3	CW50	CW45
VG4153		37-5/16	17-7/16	4.5	10.9	2.5	3	CW50	CW45
VG4157		37-5/16	19-1/16	4.9	11.9	2.5	3	CW50	CW45
VG4159		37-5/16	19-7/8	5.2	12.4	2.5	3	CW50	CW45
VG4165		37-5/16	22-1/4	5.8	13.8	2.5	3	CW45	CW45
VG4171	E	37-5/16	24-11/16	6.4	15.3	2.5	3	CW40	CW40
VG4541		41-5/16	12-11/16	3.6	8.8	2.5	3	CW50	CW45
VG4547		41-5/16	15-1/16	4.3	10.5	2.5	3	CW50	CW45
VG4553		41-5/16	17-7/16	5.0	12.1	2.5	3	CW50	CW45
VG4557		41-5/16	19-1/16	5.5	13.2	2.5	3	CW45	CW45
VG4559		41-5/16	19-7/8	5.7	13.8	2.5	3	CW45	CW45
VG4565		41-5/16	22-1/4	6.4	15.4	2.5	3	CW45	CW45
VG4571	E	41-5/16	24-11/16	7.1	17.0	3	3	CW40	CW40
VG4841		44-5/16	12-11/16	3.9	9.5	2.5	3	CW50	CW45
VG4847		44-5/16	15-1/16	4.6	11.3	2.5	3	CW50	CW45
VG4853		44-5/16	17-7/16	5.4	13.0	2.5	3	CW45	CW45
VG4857		44-5/16	19-1/16	5.9	14.2	2.5	3	CW45	CW45
VG4859		44-5/16	19-7/8	6.1	14.8	2.5	3	CW45	CW45
VG4865		44-5/16	22-1/4	6.9	16.6	3	3	CW40	CW40
VG4871	E	44-5/16	24-11/16	7.6	18.3	3	3	CW40	CW40

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

Replacement Equal Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade 1	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
23.5x35.5		19-13/16	13-5/16	1.8	3.3	2.5	3	CW50	CW45
23.5x37.5		19-13/16	14-5/16	2.0	3.6	2.5	3	CW50	CW45
23.5x41.5		19-13/16	16-5/16	2.2	4.1	2.5	3	CW50	CW45
23.5x45.5		19-13/16	18-5/16	2.5	4.6	2.5	3	CW50	CW45
23.5x47.5		19-13/16	19-5/16	2.7	4.8	2.5	3	CW50	CW45
23.5x51.5		19-13/16	21-5/16	2.9	5.3	2.5	3	CW50	CW45
23.5x53.5		19-13/16	22-5/16	3.1	5.6	2.5	3	CW50	CW45
23.5x57.5		19-13/16	24-5/16	3.3	6.1	2.5	3	CW50	CW45
23.5x59.5		19-13/16	25-5/16	3.5	6.3	2.5	3	CW50	CW45
23.5x61.5		19-13/16	26-5/16	3.6	6.5	2.5	3	CW50	CW45
23.5x65.5		19-13/16	28-5/16	3.9	7.0	2.5	3	CW50	CW45
23.5x71.5		19-13/16	31-5/16	4.3	7.8	2.5	3	CW50	CW45
27.5x35.5		23-13/16	13-5/16	2.2	4.1	2.5	3	CW50	CW45
27.5x37.5		23-13/16	14-5/16	2.4	4.4	2.5	3	CW50	CW45
27.5x41.5		23-13/16	16-5/16	2.7	5.0	2.5	3	CW50	CW45
27.5x45.5		23-13/16	18-5/16	3.0	5.6	2.5	3	CW50	CW45
27.5x47.5		23-13/16	19-5/16	3.2	5.9	2.5	3	CW50	CW45
27.5x51.5		23-13/16	21-5/16	3.5	6.5	2.5	3	CW50	CW45
27.5x53.5		23-13/16	22-5/16	3.7	6.8	2.5	3	CW50	CW45
27.5x57.5		23-13/16	24-5/16	4.0	7.4	2.5	3	CW50	CW45
27.5x59.5		23-13/16	25-5/16	4.2	7.7	2.5	3	CW50	CW45
27.5x61.5		23-13/16	26-5/16	4.4	8.0	2.5	3	CW50	CW45
27.5x65.5		23-13/16	28-5/16	4.7	8.6	2.5	3	CW50	CW45
27.5x71.5	E1	23-13/16	31-5/16	5.2	9.5	2.5	3	CW50	CW45
29.5x35.5		25-13/16	13-5/16	2.4	4.4	2.5	3	CW50	CW45
29.5x37.5		25-13/16	14-5/16	2.6	4.8	2.5	3	CW50	CW45
29.5x41.5		25-13/16	16-5/16	2.9	5.4	2.5	3	CW50	CW45
29.5x45.5		25-13/16	18-5/16	3.3	6.1	2.5	3	CW50	CW45
29.5x47.5		25-13/16	19-5/16	3.5	6.4	2.5	3	CW50	CW45
29.5x51.5		25-13/16	21-5/16	3.8	7.1	2.5	3	CW50	CW45
29.5x53.5		25-13/16	22-5/16	4.0	7.4	2.5	3	CW50	CW45
29.5x57.5		25-13/16	24-5/16	4.4	8.1	2.5	3	CW50	CW45
29.5x59.5		25-13/16	25-5/16	4.5	8.4	2.5	3	CW50	CW45
29.5x61.5		25-13/16	26-5/16	4.7	8.7	2.5	3	CW50	CW45
29.5x65.5	E1	25-13/16	28-5/16	5.1	9.4	2.5	3	CW50	CW45
29.5x71.5	E1	25-13/16	31-5/16	5.6	10.4	2.5	3	CW50	CW45

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Egress Notes:

Check all applicable local codes for emergency egress requirements.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

Replacement Equal Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
31.5x35.5		27-13/16	13-5/16	2.6	4.8	2.5	3	CW50	CW45
31.5x37.5		27-13/16	14-5/16	2.8	5.2	2.5	3	CW50	CW45
31.5x41.5		27-13/16	16-5/16	3.2	5.9	2.5	3	CW50	CW45
31.5x45.5		27-13/16	18-5/16	3.5	6.6	2.5	3	CW50	CW45
31.5x47.5		27-13/16	19-5/16	3.7	7.0	2.5	3	CW50	CW45
31.5x51.5		27-13/16	21-5/16	4.1	7.7	2.5	3	CW50	CW45
31.5x53.5		27-13/16	22-5/16	4.3	8.0	2.5	3	CW50	CW45
31.5x57.5		27-13/16	24-5/16	4.7	8.8	2.5	3	CW50	CW45
31.5x59.5		27-13/16	25-5/16	4.9	9.1	2.5	3	CW50	CW45
31.5x61.5	E ₁	27-13/16	26-5/16	5.1	9.5	2.5	3	CW50	CW45
31.5x65.5	E ₁	27-13/16	28-5/16	5.5	10.2	2.5	3	CW50	CW45
31.5x71.5	E	27-13/16	31-5/16	6.0	11.3	2.5	3	CW50	CW45
35.5x35.5		31-13/16	13-5/16	2.9	5.6	2.5	3	CW50	CW45
35.5x37.5		31-13/16	14-5/16	3.2	6.0	2.5	3	CW50	CW45
35.5x41.5		31-13/16	16-5/16	3.6	6.8	2.5	3	CW50	CW45
35.5x45.5		31-13/16	18-5/16	4.0	7.6	2.5	3	CW50	CW45
35.5x47.5		31-13/16	19-5/16	4.3	8.0	2.5	3	CW50	CW45
35.5x51.5		31-13/16	21-5/16	4.7	8.9	2.5	3	CW50	CW45
35.5x53.5		31-13/16	22-5/16	4.9	9.3	2.5	3	CW50	CW45
35.5x57.5	E ₁	31-13/16	24-5/16	5.4	10.1	2.5	3	CW50	CW45
35.5x59.5	E ₁	31-13/16	25-5/16	5.6	10.5	2.5	3	CW50	CW45
35.5x61.5	E	31-13/16	26-5/16	5.8	10.9	2.5	3	CW50	CW45
35.5x65.5	E	31-13/16	28-5/16	6.3	11.8	2.5	3	CW50	CW45
35.5x71.5	E	31-13/16	31-5/16	6.9	13.0	2.5	3	CW50	CW45
39.5x35.5		35-13/16	13-5/16	3.3	6.3	2.5	3	CW50	CW45
39.5x37.5		35-13/16	14-5/16	3.6	6.8	2.5	3	CW50	CW45
39.5x41.5		35-13/16	16-5/16	4.1	7.7	2.5	3	CW50	CW45
39.5x45.5		35-13/16	18-5/16	4.6	8.7	2.5	3	CW50	CW45
39.5x47.5		35-13/16	19-5/16	4.8	9.1	2.5	3	CW50	CW45
39.5x51.5		35-13/16	21-5/16	5.3	10.1	2.5	3	CW50	CW45
39.5x53.5		35-13/16	22-5/16	5.5	10.5	2.5	3	CW50	CW45
39.5x57.5	E	35-13/16	24-5/16	6.0	11.5	2.5	3	CW50	CW45
39.5x59.5	E	35-13/16	25-5/16	6.3	11.9	2.5	3	CW50	CW45
39.5x61.5	E	35-13/16	26-5/16	6.5	12.4	2.5	3	CW50	CW45
39.5x65.5	E	35-13/16	28-5/16	7.0	13.4	2.5	3	CW50	CW45
39.5x71.5	E	35-13/16	31-5/16	7.8	14.8	2.5	3	CW50	CW45
41.5x35.5		37-13/16	13-5/16	3.5	6.7	2.5	3	CW50	CW45
41.5x37.5		37-13/16	14-5/16	3.8	7.2	2.5	3	CW50	CW45
41.5x41.5		37-13/16	16-5/16	4.3	8.2	2.5	3	CW50	CW45
41.5x45.5		37-13/16	18-5/16	4.8	9.2	2.5	3	CW50	CW45
41.5x47.5		37-13/16	19-5/16	5.1	9.7	2.5	3	CW50	CW45
41.5x51.5		37-13/16	21-5/16	5.6	10.7	2.5	3	CW50	CW45
41.5x53.5		37-13/16	22-5/16	5.9	11.2	2.5	3	CW50	CW45
41.5x57.5	E	37-13/16	24-5/16	6.4	12.2	2.5	3	CW50	CW45
41.5x59.5	E	37-13/16	25-5/16	6.6	12.7	2.5	3	CW50	CW45
41.5x61.5	E	37-13/16	26-5/16	6.9	13.1	2.5	3	CW50	CW45
41.5x65.5	E	37-13/16	28-5/16	7.4	14.1	2.5	3	CW50	CW45
41.5x71.5	E	37-13/16	31-5/16	8.2	15.6	2.5	3	CW50	CW45

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

Replacement Fixed

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade 1
		Annealed	Tempered	
41x35.5	7.3	2.5	3	CW50
41x37.5	7.8	2.5	3	CW50
41x41.5	8.8	2.5	3	CW50
41x45.5	9.7	2.5	3	CW45/CW50
41x47.5	10.2	3.0	3	CW50
41x51.5	11.2	3.0	3	CW50
41x53.5	11.7	3.0	3	CW50
41x57.5	12.7	3.0	3	CW50
41x59.5	13.2	3.0	3	CW50
41x61.5	13.6	3.0	3	CW50
41x65.5	14.6	3.0	3	CW50
41x71.5	16.1	3.0	3	CW45/CW50
47x35.5	8.5	2.5	3	CW50
47x37.5	9.1	2.5	3	CW50
47x41.5	10.2	3.0	3	CW50
47x45.5	11.4	3.0	3	CW50
47x47.5	12.0	3.0	3	CW50
47x51.5	13.1	3.0	3	CW50
47x53.5	13.7	3.0	3	CW50
47x57.5	14.8	3.0	3	CW50
47x59.5	15.4	3.0	3	CW45/CW50
47x61.5	16.0	3.0	3	CW45/CW50
47x65.5	17.1	3.0	3	CW45/CW50
47x71.5	18.8	4.0	4	CW50
53x35.5	9.8	2.5	3	CW45/CW50
53x37.5	10.4	3.0	3	CW50
53x41.5	11.7	3.0	3	CW50
53x45.5	13.0	3.0	3	CW50
53x47.5	13.7	3.0	3	CW50
53x51.5	15.0	3.0	4	CW50
53x53.5	15.7	3.0	4	CW45/CW50
53x57.5	17.0	3.0	4	CW45/CW50
53x59.5	17.6	4.0	4	CW50
53x61.5	18.3	4.0	4	CW50
53x65.5	19.6	4.0	4	CW50
53x71.5	21.6	4.0	4	CW50
59x35.5	11.0	3.0	3	CW50
59x37.5	11.7	3.0	3	CW50
59x41.5	13.2	3.0	3	CW50
59x45.5	14.7	3.0	3	CW50
59x47.5	15.4	3.0	3	CW45/CW50
59x51.5	16.9	3.0	4	CW45/CW50
59x53.5	17.7	4.0	4	CW50
59x57.5	19.1	4.0	4	CW50
59x59.5	19.9	4.0	4	CW50
59x61.5	20.6	4.0	4	CW50
59x65.5	22.1	4.0	4	CW50
59x71.5	24.3	4.0	4	CW45/CW50

Replacement Transoms

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade 1
		Annealed	Tempered	
23.5x14	1.0	2.5	3	CW50
23.5x17	1.4	2.5	3	CW50
23.5x25	2.4	2.5	3	CW50
27.5x14	1.2	2.5	3	CW50
27.5x17	1.7	2.5	3	CW50
27.5x25	2.9	2.5	3	CW50
29.5x14	1.4	2.5	3	CW50
29.5x17	1.9	2.5	3	CW50
29.5x25	3.2	2.5	3	CW50
31.5x14	1.5	2.5	3	CW50
31.5x17	2.0	2.5	3	CW50
31.5x25	3.4	2.5	3	CW50
35.5x14	1.7	2.5	3	CW50
35.5x17	2.3	2.5	3	CW50
35.5x25	4.0	2.5	3	CW50
39.5x14	1.9	2.5	3	CW50
39.5x17	2.6	2.5	3	CW50
39.5x25	4.5	2.5	3	CW50
41.5x14	2.0	2.5	3	CW50
41.5x17	2.8	2.5	3	CW50
41.5x25	4.8	2.5	3	CW50

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass.



Pella® Reserve™ Traditional Hung Window

Design Data

Replacement Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
VG23.5x41.5		19-13/16	12-7/8	1.8	4.1	2.5	3	CW50	CW45
VG23.5x45.5		19-13/16	14-1/2	2.0	4.6	2.5	3	CW50	CW45
VG23.5x47.5		19-13/16	15-1/4	2.1	4.8	2.5	3	CW50	CW45
VG23.5x51.5		19-13/16	16-7/8	2.3	5.3	2.5	3	CW50	CW45
VG23.5x53.5		19-13/16	17-11/16	2.4	5.6	2.5	3	CW50	CW45
VG23.5x57.5		19-13/16	19-1/4	2.7	6.1	2.5	3	CW50	CW45
VG23.5x59.5		19-13/16	19-15/16	2.8	6.3	2.5	3	CW50	CW45
VG23.5x61.5		19-13/16	20-7/8	2.9	6.5	2.5	3	CW50	CW45
VG23.5x65.5		19-13/16	22-1/2	3.1	7.0	2.5	3	CW50	CW45
VG23.5x71.5		19-13/16	24-7/8	3.4	7.8	2.5	3	CW40	CW40
VG27.5x41.5		23-13/16	12-7/8	2.1	5.0	2.5	3	CW50	CW45
VG27.5x45.5		23-13/16	14-1/2	2.4	5.6	2.5	3	CW50	CW45
VG27.5x47.5		23-13/16	15-1/4	2.5	5.9	2.5	3	CW50	CW45
VG27.5x51.5		23-13/16	16-7/8	2.8	6.5	2.5	3	CW50	CW45
VG27.5x53.5		23-13/16	17-11/16	2.9	6.8	2.5	3	CW50	CW45
VG27.5x57.5		23-13/16	19-1/4	3.2	7.4	2.5	3	CW50	CW45
VG27.5x59.5		23-13/16	19-15/16	3.3	7.7	2.5	3	CW50	CW45
VG27.5x61.5		23-13/16	20-7/8	3.5	8.0	2.5	3	CW50	CW45
VG27.5x65.5		23-13/16	22-1/2	3.7	8.6	2.5	3	CW50	CW45
VG27.5x71.5		23-13/16	24-7/8	4.1	9.5	2.5	3	CW40	CW40
VG29.5x41.5		25-13/16	12-7/8	2.3	5.4	2.5	3	CW50	CW45
VG29.5x45.5		25-13/16	14-1/2	2.6	6.1	2.5	3	CW50	CW45
VG29.5x47.5		25-13/16	15-1/4	2.7	6.4	2.5	3	CW50	CW45
VG29.5x51.5		25-13/16	16-7/8	3.0	7.1	2.5	3	CW50	CW45
VG29.5x53.5		25-13/16	17-11/16	3.2	7.4	2.5	3	CW50	CW45
VG29.5x57.5		25-13/16	19-1/4	3.5	8.1	2.5	3	CW50	CW45
VG29.5x59.5		25-13/16	19-15/16	3.6	8.4	2.5	3	CW50	CW45
VG29.5x61.5		25-13/16	20-7/8	3.7	8.7	2.5	3	CW50	CW45
VG29.5x65.5		25-13/16	22-1/2	4.0	9.4	2.5	3	CW50	CW45
VG29.5x71.5		25-13/16	24-7/8	4.5	10.4	2.5	3	CW40	CW40
VG31.5x41.5		27-13/16	12-7/8	2.5	5.9	2.5	3	CW50	CW45
VG31.5x45.5		27-13/16	14-1/2	2.8	6.6	2.5	3	CW50	CW45
VG31.5x47.5		27-13/16	15-1/4	3.0	7.0	2.5	3	CW50	CW45
VG31.5x51.5		27-13/16	16-7/8	3.3	7.7	2.5	3	CW50	CW45
VG31.5x53.5		27-13/16	17-11/16	3.4	8.0	2.5	3	CW50	CW45
VG31.5x57.5		27-13/16	19-1/4	3.7	8.8	2.5	3	CW50	CW45
VG31.5x59.5		27-13/16	19-15/16	3.9	9.1	2.5	3	CW50	CW45
VG31.5x61.5		27-13/16	20-7/8	4.0	9.5	2.5	3	CW50	CW45
VG31.5x65.5		27-13/16	22-1/2	4.3	10.2	2.5	3	CW50	CW45
VG31.5x71.5		27-13/16	24-7/8	4.8	11.3	2.5	3	CW40	CW40

Continued on next page

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data

Replacement Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
VG35.5x41.5		31-13/16	12-7/8	2.8	6.8	2.5	3	CW50	CW45
VG35.5x45.5		31-13/16	14-1/2	3.2	7.6	2.5	3	CW50	CW45
VG35.5x47.5		31-13/16	15-1/4	3.4	8.0	2.5	3	CW50	CW45
VG35.5x51.5		31-13/16	16-7/8	3.7	8.9	2.5	3	CW50	CW45
VG35.5x53.5		31-13/16	17-11/16	3.9	9.3	2.5	3	CW50	CW45
VG35.5x57.5		31-13/16	19-1/4	4.3	10.1	2.5	3	CW50	CW45
VG35.5x59.5		31-13/16	19-15/16	4.4	10.5	2.5	3	CW50	CW45
VG35.5x61.5		31-13/16	20-7/8	4.6	11.0	2.5	3	CW50	CW45
VG35.5x65.5		31-13/16	22-1/2	5.0	11.8	2.5	3	CW50	CW45
VG35.5x71.5	E1	31-13/16	24-7/8	5.5	13.0	2.5	3	CW40	CW40
VG39.5x41.5		35-13/16	12-7/8	3.2	7.7	2.5	3	CW50	CW45
VG39.5x45.5		35-13/16	14-1/2	3.6	8.7	2.5	3	CW50	CW45
VG39.5x47.5		35-13/16	15-1/4	3.8	9.1	2.5	3	CW50	CW45
VG39.5x51.5		35-13/16	16-7/8	4.2	10.1	2.5	3	CW50	CW45
VG39.5x53.5		35-13/16	17-11/16	4.4	10.5	2.5	3	CW50	CW45
VG39.5x57.5		35-13/16	19-1/4	4.8	11.5	2.5	3	CW50	CW45
VG39.5x59.5		35-13/16	19-15/16	5.0	11.9	2.5	3	CW50	CW45
VG39.5x61.5		35-13/16	20-7/8	5.2	12.4	2.5	3	CW45	CW45
VG39.5x65.5		35-13/16	22-1/2	5.6	13.4	2.5	3	CW45	CW45
VG39.5x71.5	E	35-13/16	24-7/8	6.2	14.8	2.5	3	CW40	CW40
VG41.5x41.5		37-13/16	12-7/8	3.4	8.2	2.5	3	CW50	CW45
VG41.5x45.5		37-13/16	14-1/2	3.8	9.2	2.5	3	CW50	CW45
VG41.5x47.5		37-13/16	15-1/4	4.0	9.7	2.5	3	CW50	CW45
VG41.5x51.5		37-13/16	16-7/8	4.4	10.7	2.5	3	CW50	CW45
VG41.5x53.5		37-13/16	17-11/16	4.6	11.2	2.5	3	CW50	CW45
VG41.5x57.5		37-13/16	19-1/4	5.1	12.2	2.5	3	CW50	CW45
VG41.5x59.5		37-13/16	19-15/16	5.3	12.7	2.5	3	CW50	CW45
VG41.5x61.5		37-13/16	20-7/8	5.5	13.2	2.5	3	CW45	CW45
VG41.5x65.5		37-13/16	22-1/2	5.9	14.1	2.5	3	CW45	CW45
VG41.5x71.5	E	37-13/16	24-7/8	6.5	15.6	2.5	3	CW40	CW40

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



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.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory applied jamb extensions available between 3-13/16" (97mm) and 9-3/16" (233mm).
- Vinyl jamb liner with wood / clad inserts.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.

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 [clear pine] [mahogany] [douglas fir]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are clad with extruded aluminum butt-jointed at all corners of the sash with through-stile construction and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- Double-Hung: Upper sash has surface-mounted wash locks for easy tilt-in cleaning [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail allowing sash to tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.
- Sash exterior profile is [ogee] [putty glaze], interior profile is ogee.

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 dual-pane 13/16" dual-seal insulating glass [[annealed] [tempered]], [[clear] [[Advanced Low-E] [SunDefense™ Low-E] [NaturalSun Low-E] [AdvancedComfort Low-E] with argon]] [[bronze] [gray] [green] Advanced Low-E [with Argon]] [obscure] [Reflective Bronze].
- or -
- Silicone-glazed dual-pane 13/16" dual-seal [[annealed] [tempered]] non-impact laminated glass [[clear] [[Advanced Low-E] [SunDefense 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] [custom]₁.
- 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] [custom]₁.

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [paint] [stain]₁].

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 (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Bright Brass] [Satin Nickel] [Oil-rubbed Bronze] [Antique Brass] [Distressed Bronze] [Distressed Nickel].

Optional Products

Sash

- Exterior sash lugs
 - Optional factory applied accessory. Exterior finish is [Standard₁] [Custom₁].

Grilles

- Integral Light Technology® grilles
 - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [pine] [mahogany] [douglas fir]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]₁].
 - Exterior grilles are [5/8" putty glaze profile] [7/8" [putty glaze] [ogee] profile] [1-1/4" [putty glaze] [ogee] profile] [2" 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-Glass₂
 - 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] [Tan₃] [Brown₃] [Putty₃] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₄ is [standard]₁.
- or -

- Roomside Removable grilles
 - [[3/4"] [1-1/4"] [2"] traditional] [[1-1/4"] [2"] colonial] profile, with [Traditional] [Prairie] patterns that are removable solid pine wood bars steel-pinned at joints and fitted to sash with steel clips and tacks.
 - Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]₁].
 - Exterior [unfinished, ready for site finishing] [factory primed] [finish color matched to exterior cladding₄].

Screens

- Integrated Rolscreen® (for rectangular units only)₆
 - Retractable screen integrated into [lower sash] [both upper and lower sash]. Screen rollers are fixed and concealed within the frame, screen is held to the sash by magnets which release when the bottom sash is tilted for cleaning, and when the upper sash is opened past 18".
 - InView Screen cloth, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201.
- or -
- InView™ screens
 - [Half-Size] [Full-Size₄] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [standard roll-form] [premium extruded] aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Screen frame finish is [standard screen: baked enamel] [premium extruded: [baked enamel] [anodized]], color to match window cladding.
- or -
- Vivid View® screens₇
 - [Half-Size] [Full-Size] PVDF 21 / 17 mesh, minimum 78 percent light transmissive screen, set in a [standard roll-form] [premium extruded] aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Screen frame finish is [standard screen: baked enamel] [premium extruded: [baked enamel] [anodized]], 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 factory applied window opening control device. 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.

Sensors

- Optional factory installed integrated security sensors available in vent units.

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

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

(3) 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.

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

(5) Full screens are available on units ≤ 96" height.

(6) Integrated Rolscreen only available on sizes ≥ 34" tall and 21" wide, and ≤ 84" tall and 48" wide.

(7) Vivid View screen is not available when frame height is > 84" or when both frame width and frame height are > 48".



Detailed Product Description - Wood 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] (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Overall frame depth is 4-3/8" (111mm) for a wall depth of 4-3/16" (106mm).
- Vinyl Jamb liner includes wood / clad inserts.
- Optional factory applied jamb extensions available between 4-5/16" (110mm) and 9-3/16" (233mm).

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 [clear pine] [mahogany] (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Sash exterior profile is putty glaze, interior profile is ogee.
- Corners [mortised and tenoned on rectangular units] [mitered on arch head units], glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- [Double-Hung: Upper sash has surface-mounted wash locks] [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail.
- Sashes tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.

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 1 1/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [Advanced Low-E] [SunDefense™ Low-E] [Advanced Comfort] [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 [paint] [stain]₁].

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 (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [bright brass] [satin nickel] [oil-rubbed bronze] [antique brass] [distressed bronze] [distressed nickel].

Optional Products

Grilles

- Integral Light Technology® grilles
 - Interior grilles are solid [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 [paint] [stain]₁].
 - Exterior grilles are solid [5/8"] [7/8"] [1-1/4"] putty glaze profile that are [pine] [mahogany]. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [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-Glass₂

- 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] [Tan₃] [Brown₃] [Putty₃] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
- Exterior colors is [standard]₁.

- or -

- Roomside Removable grilles

- [[3/4"] [1-1/4"] [2"] regular] [[1-1/4"] [2"] colonial] profile, with [Traditional] [Prairie] patterns that are removable solid pine wood bars steel-pinned at joints and fitted to sash with steel clips and tacks.
- Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]₁].
- Exterior [unfinished, ready for site finishing] [factory primed].

Screens

- InView™ Screens

- [Half-Size] [Full-Size₄] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [standard roll-form aluminum frame with 3/4" wide rails and stiles] [premium extruded aluminum frame with 1" wide rails and stiles] fitted to outside of window, supplied complete with all necessary hardware.
- Full screen spreader bar placed on units > 37" width or > 65" height.
- Insect screen frame finish is baked enamel.

- or -

- Vivid View® Screens₆

- [Half-Size] [Full-Size] PVDF 21/17 mesh, minimum 78 percent light transmissive screen, set in a [standard roll-form aluminum frame with 3/4" wide rails and stiles] [premium extruded aluminum frame with 1" wide rails and stiles] fitted to outside of window, supplied complete with all necessary hardware.
- Full screen spreader bar placed on units > 37" width or > 65" height.
- Insect screen frame finish is baked enamel.

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 factory applied window opening control device. 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.

Sensors

- Optional factory installed integrated security sensors available in vent units.

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

(2) Available in clear or Low-E insulating glass with argon, and obscure insulated glass.

(3) 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.

(4) Full screens are available on units ≤ 96" height.

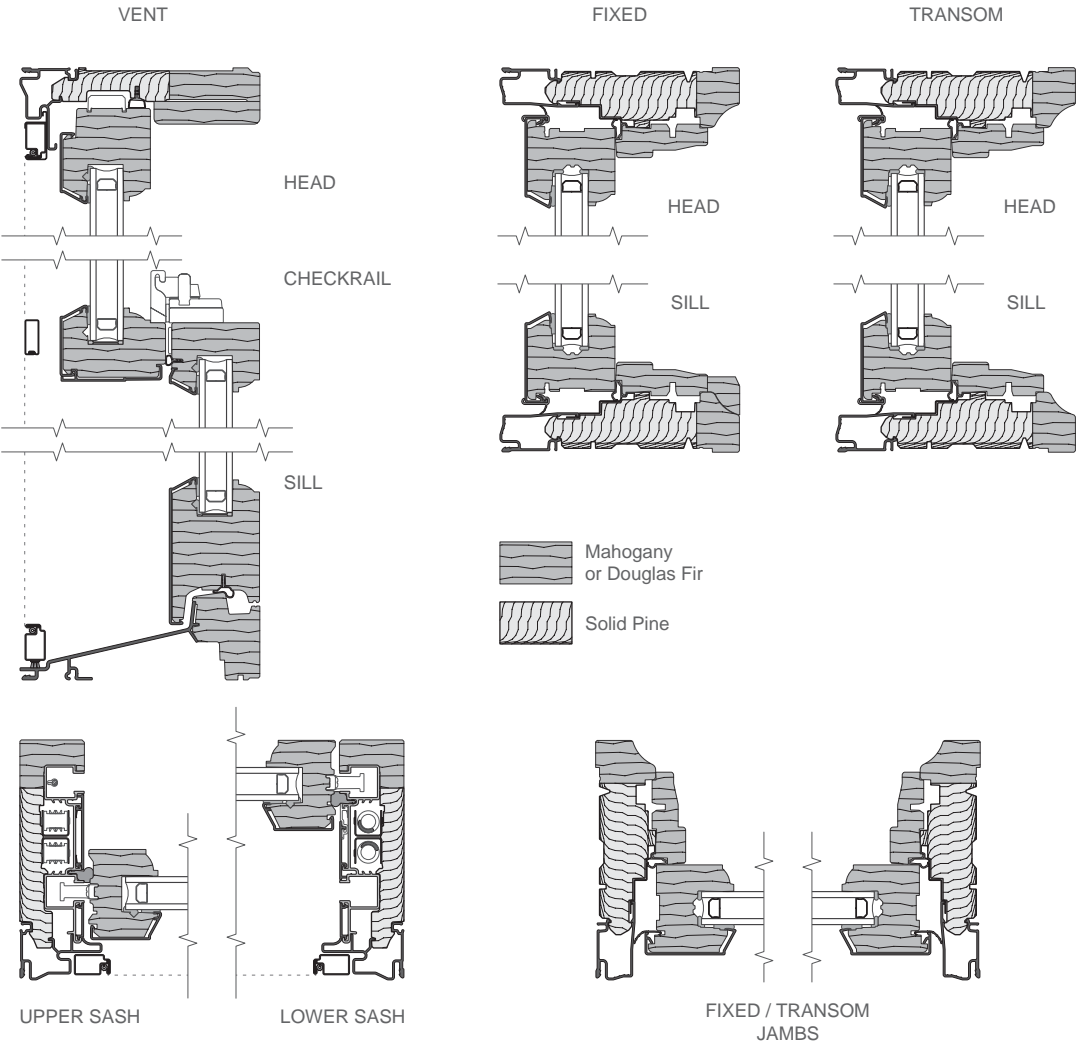
(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.

(6) Vivid View screen is not available when frame height is > 84" or when both frame width and frame height are > 48".



Pella® Reserve™ Traditional Hung Window

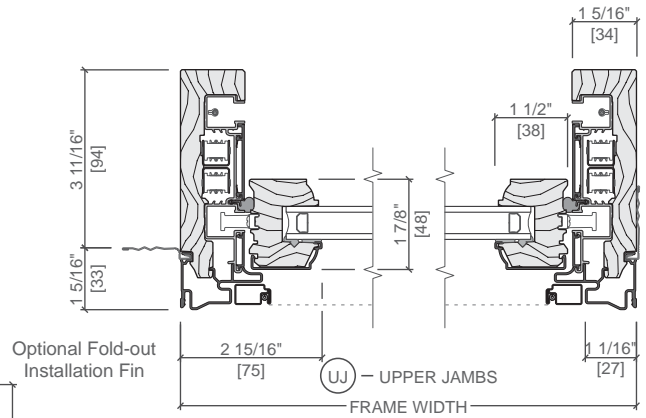
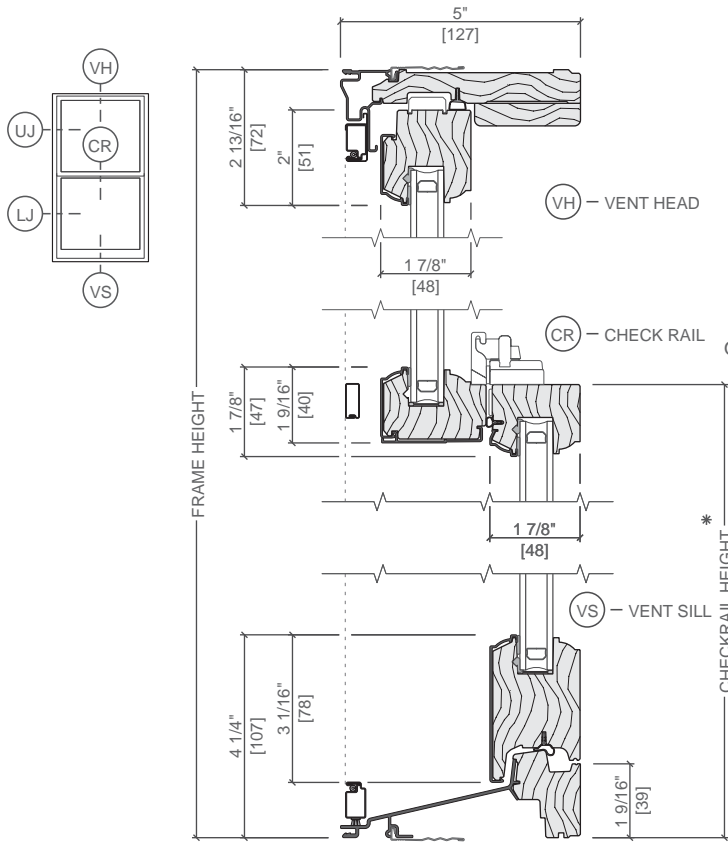
Unit Sections - Wood Collection



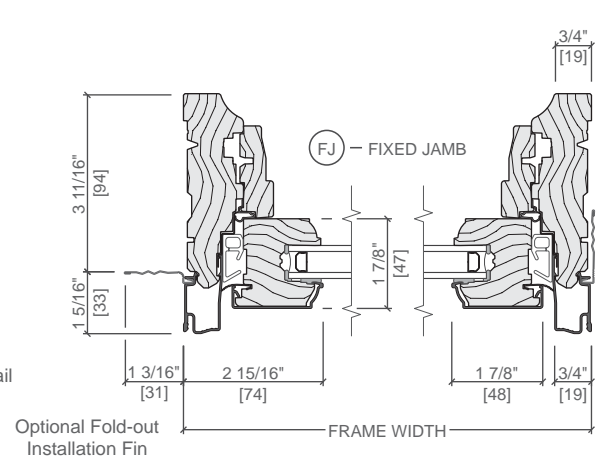
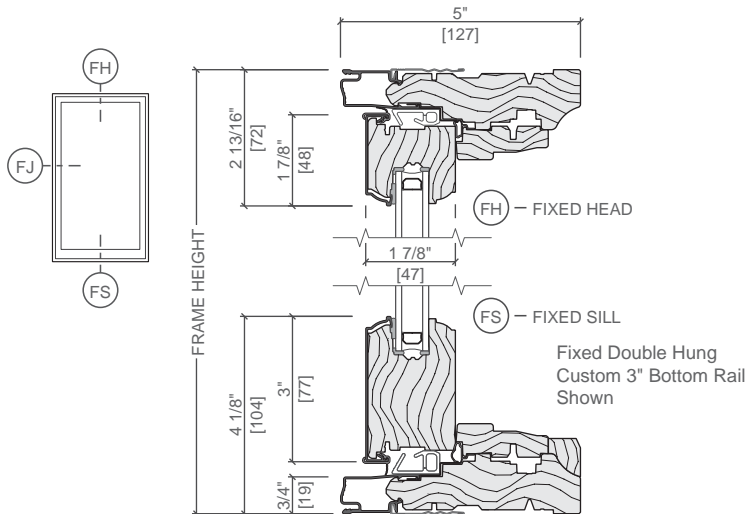
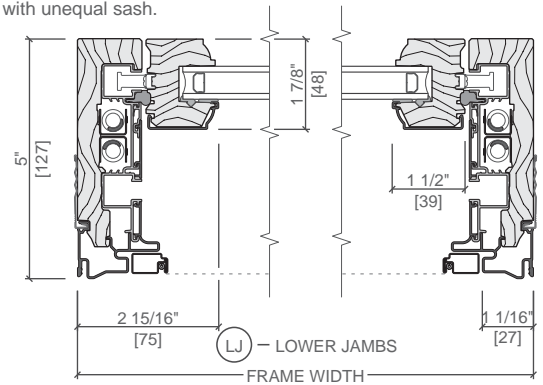


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



* Dimension required for ordering units with unequal sash.



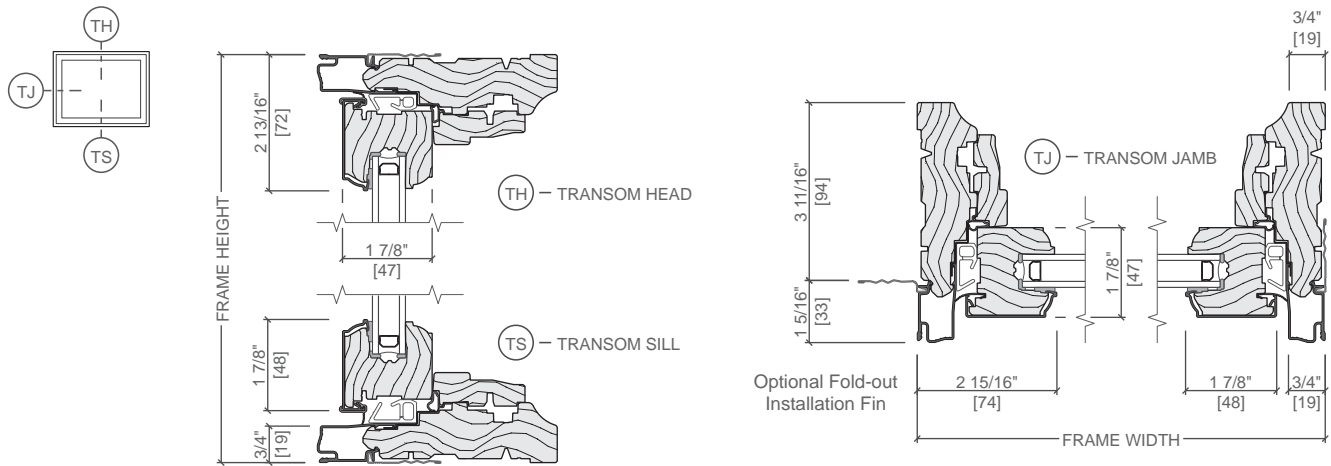
Scale 3" = 1' 0"

All dimensions are approximate.

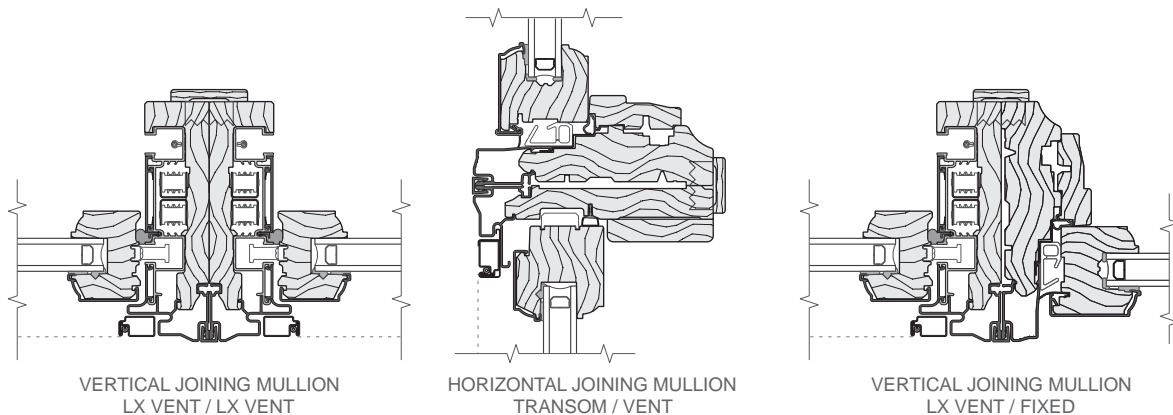


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



Typical Joining Mullions



Scale 3" = 1' 0"

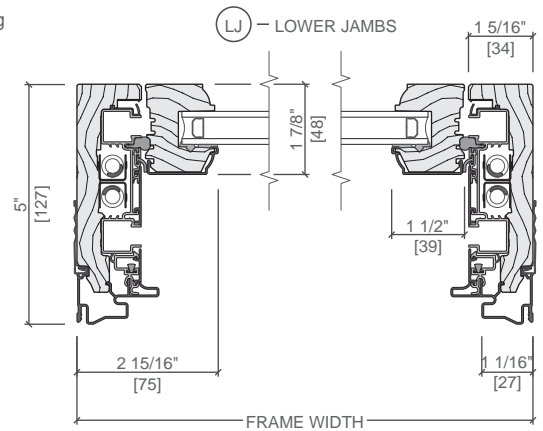
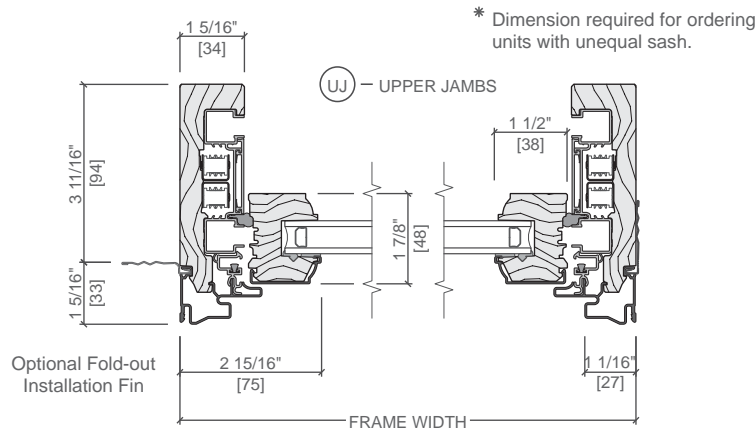
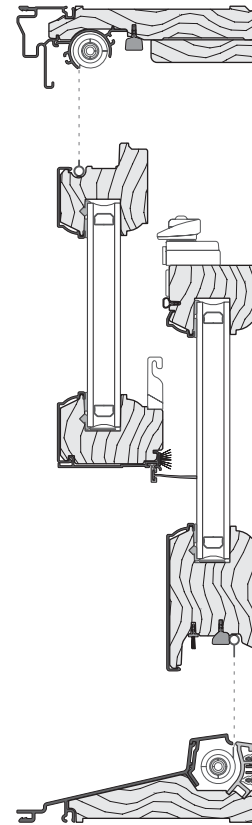
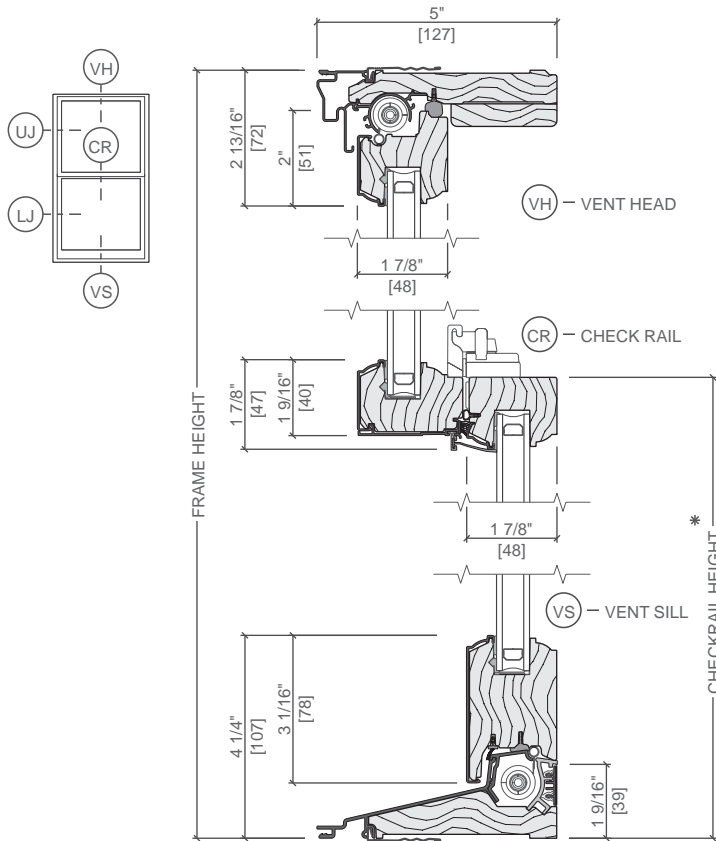
All dimensions are approximate.

See www.Pella.com for mullion limitation and reinforcing requirements.



Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile with Integrated Rolscreen®



* Dimension required for ordering units with unequal sash.

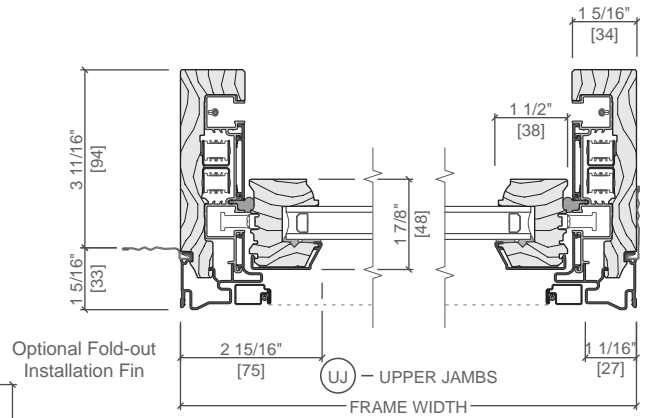
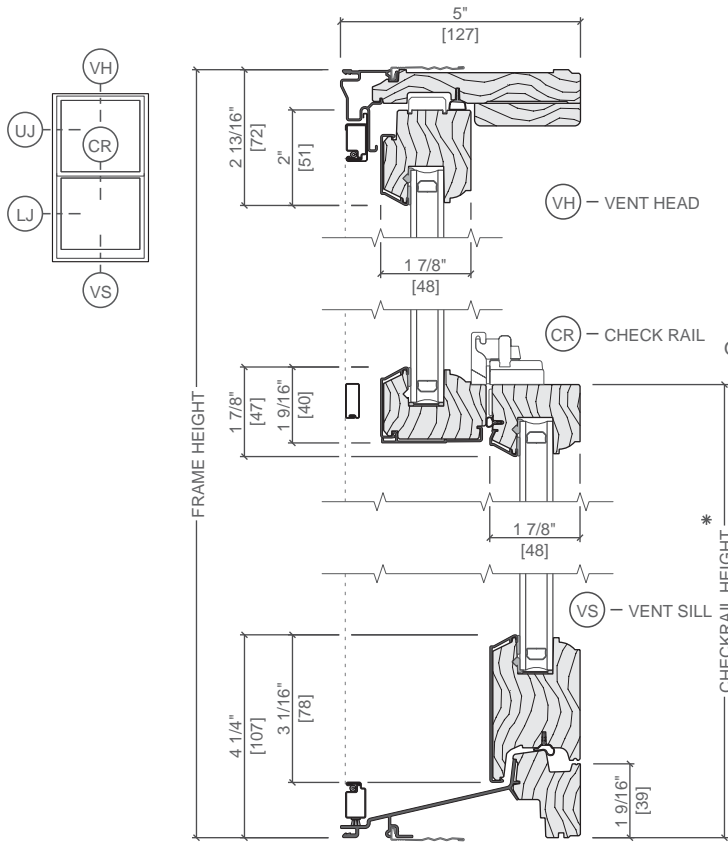
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All dimensions are approximate.

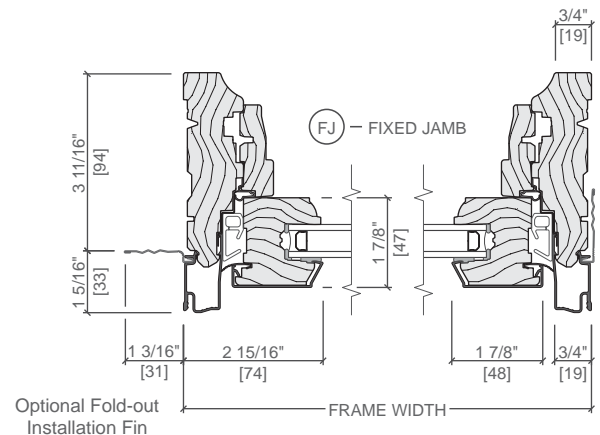
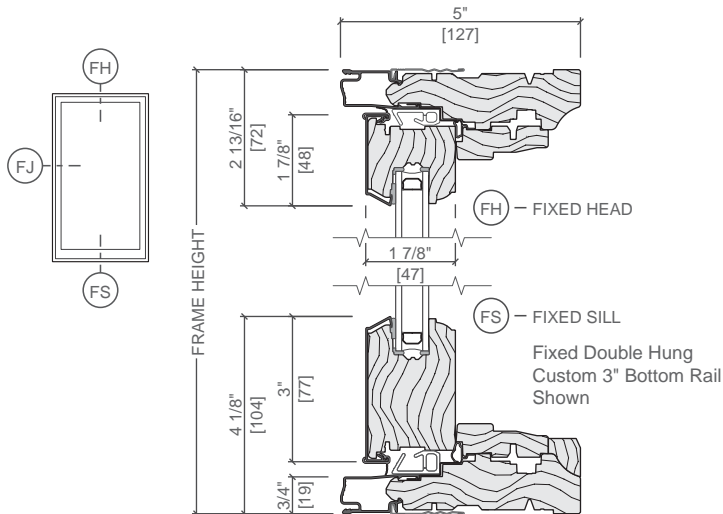
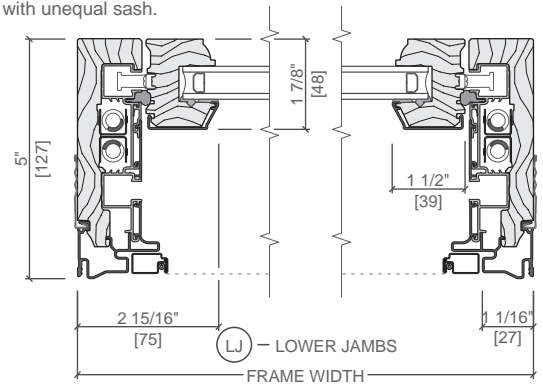


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



* Dimension required for ordering units with unequal sash.



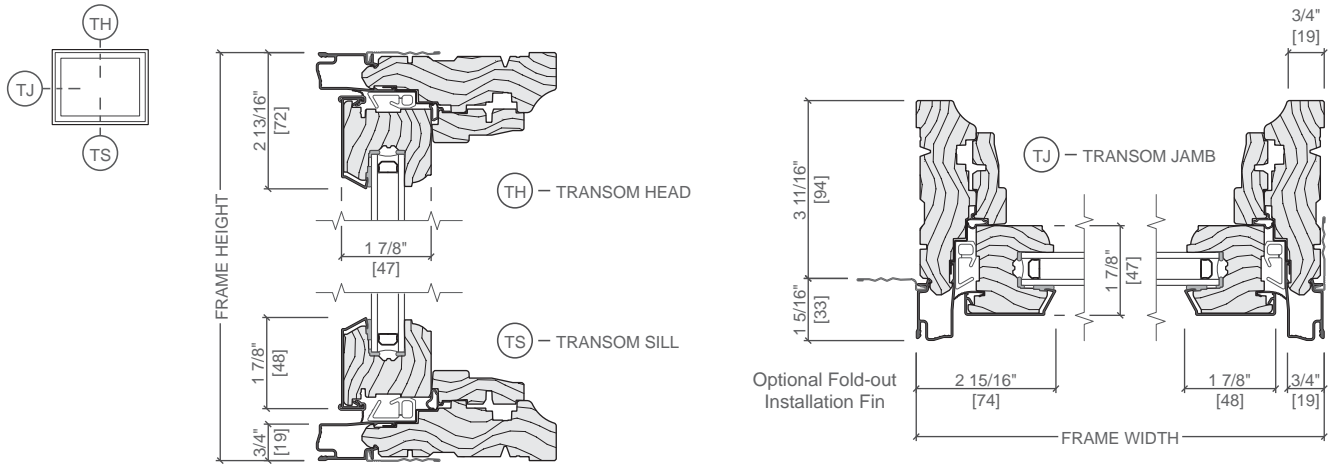
Scale 3" = 1' 0"

All dimensions are approximate.

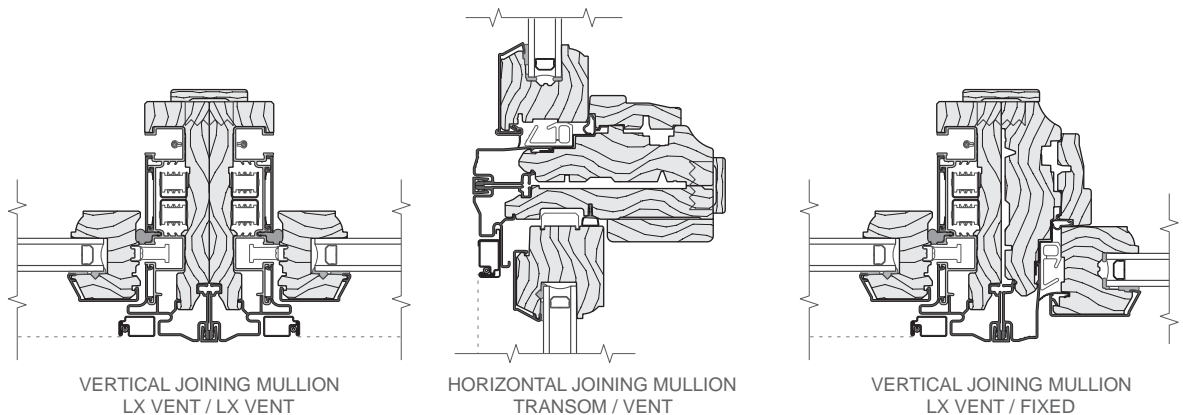


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



Typical Joining Mullions



Scale 3" = 1' 0"

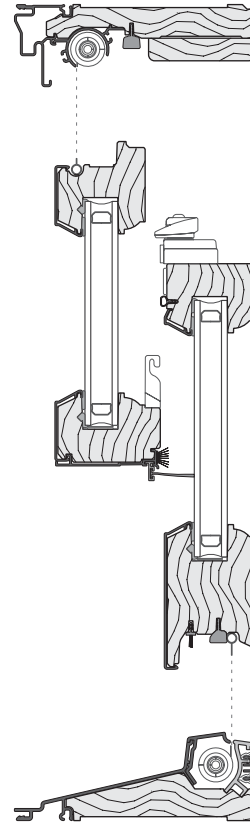
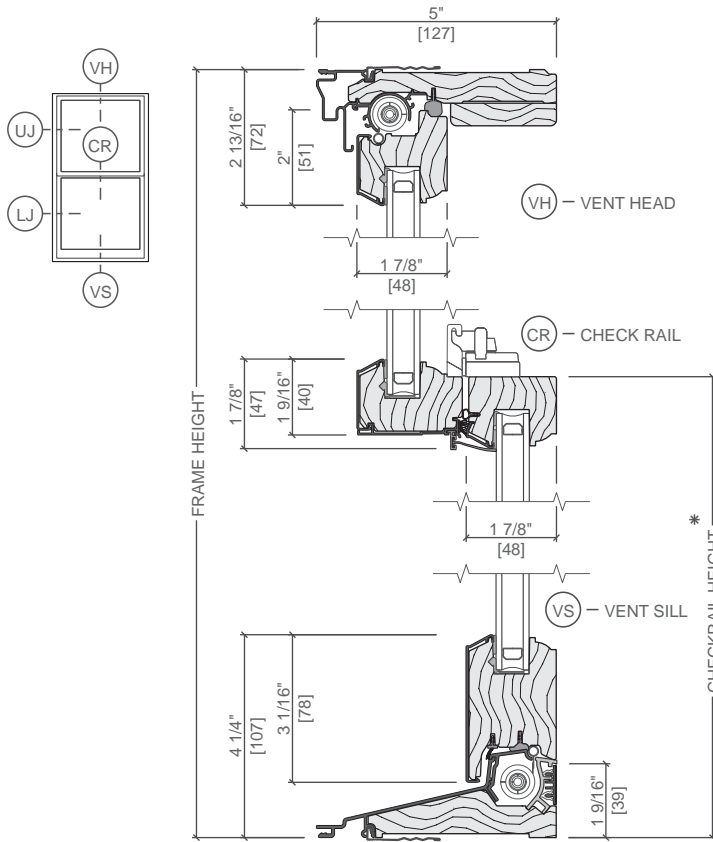
All dimensions are approximate.

See www.Pella.com for mullion limitation and reinforcing requirements.

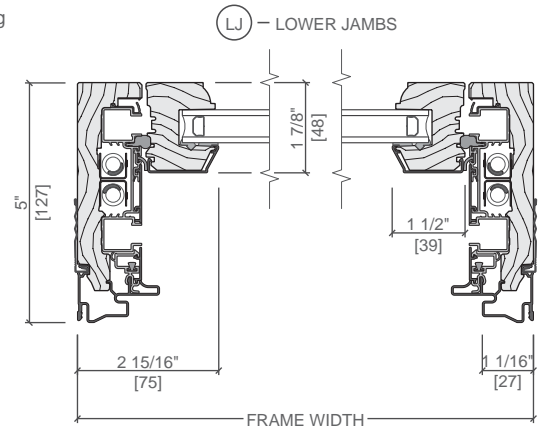
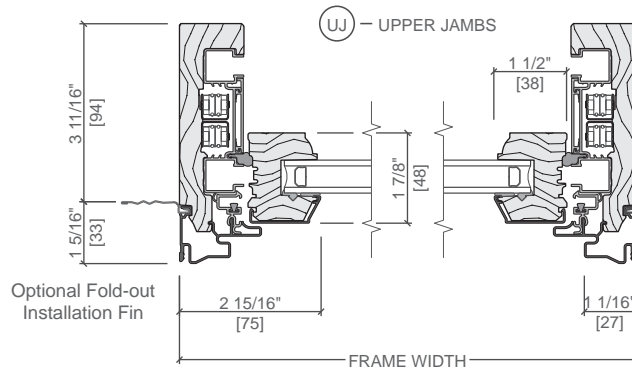


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile with Integrated Rolscreen®



* Dimension required for ordering units with unequal sash.



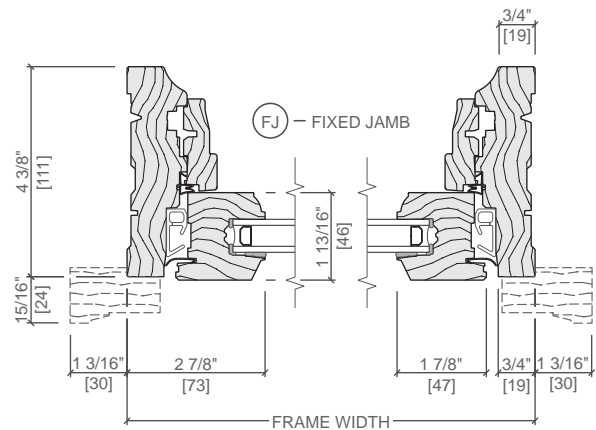
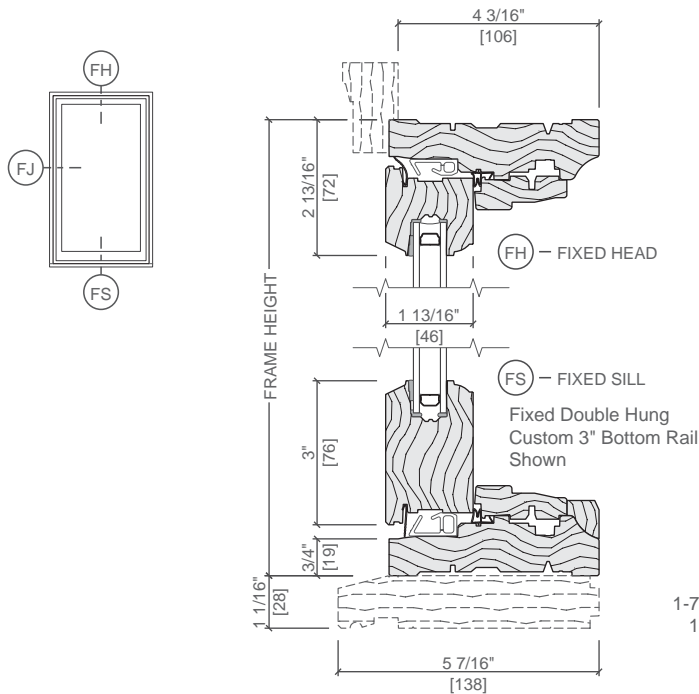
Scale 3" = 1' 0"

All dimensions are approximate.

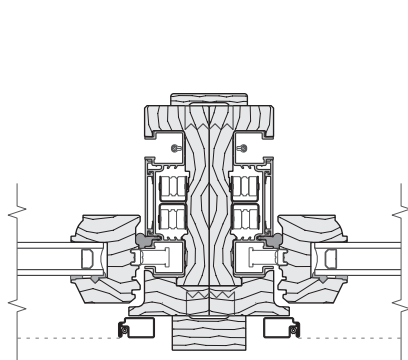
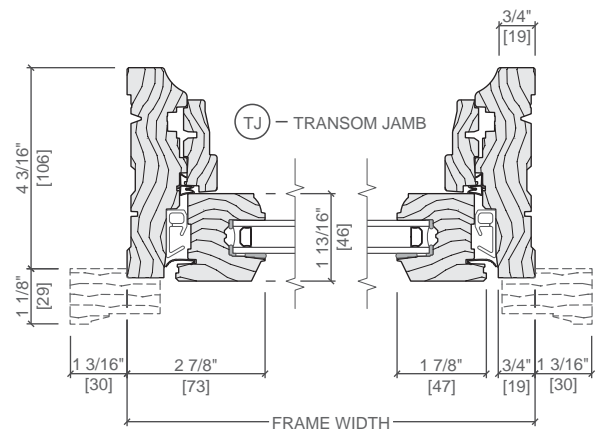
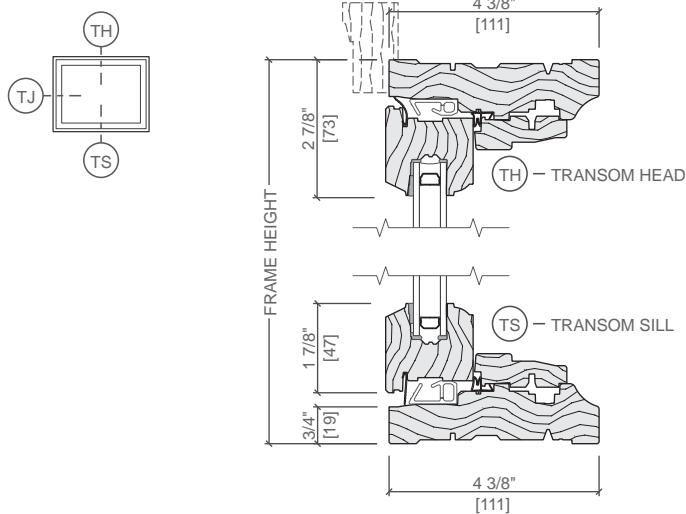


Pella® Reserve™ Traditional Hung Window

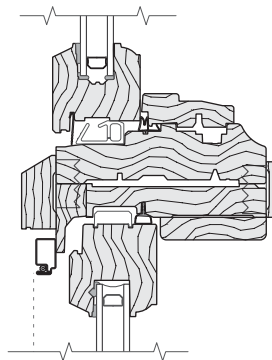
Unit Sections - Wood Exterior Putty Glaze Exterior Profile



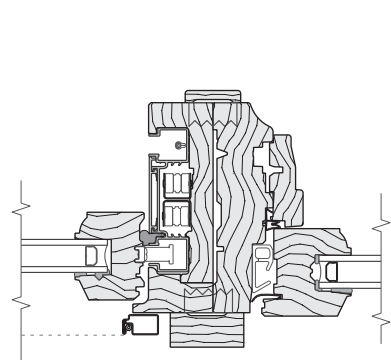
1-78" Brickmould #3443
1-1/8" Subsill #3544
Shown



VERTICAL JOINING MULLION
LX VENT / LX VENT



HORIZONTAL JOINING MULLION
TRANSOM / VENT



VERTICAL JOINING MULLION
LX VENT / FIXED

Scale 3" = 1' 0"

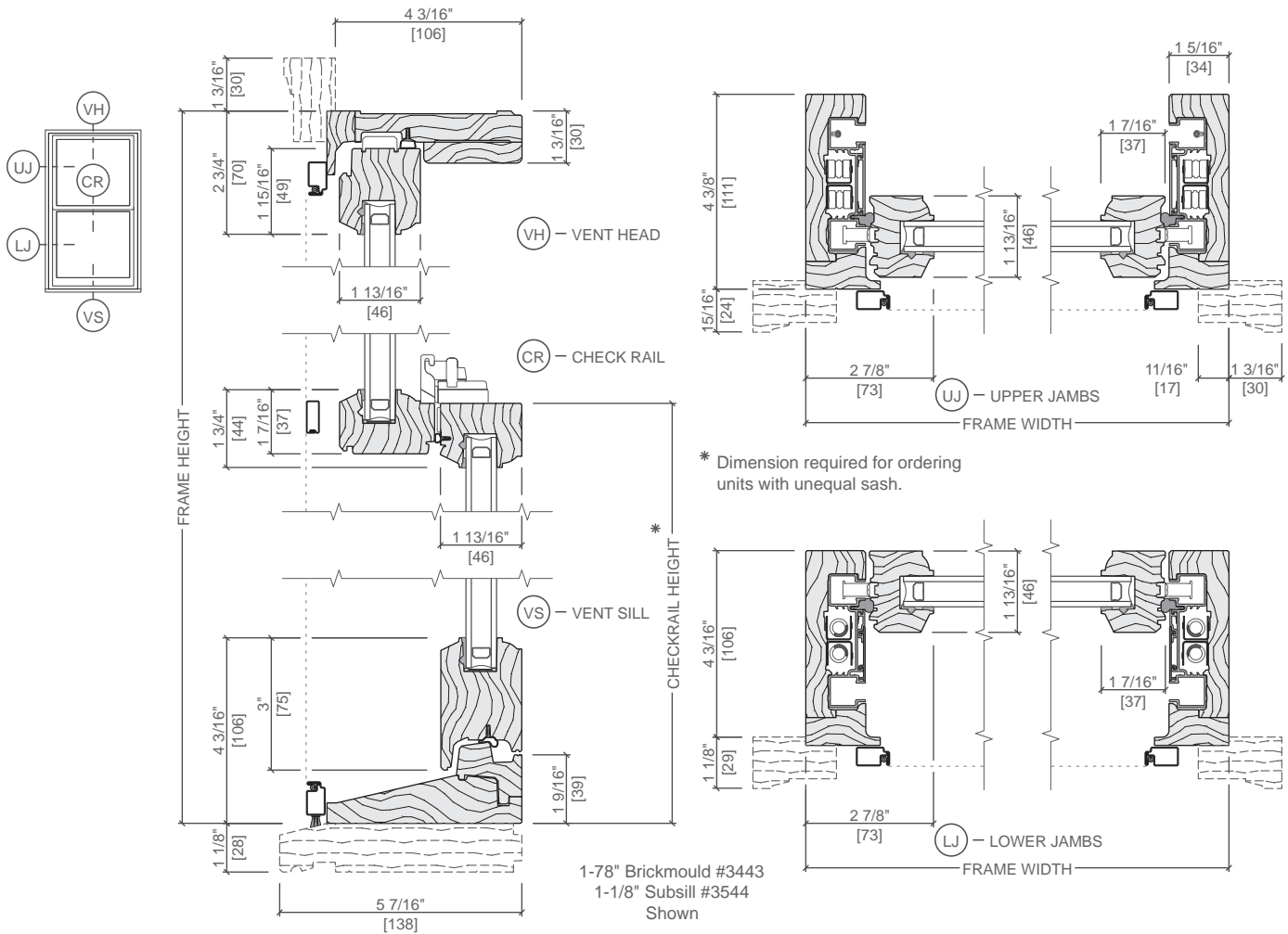
All dimensions are approximate.

See www.Pella.com for mullion limitation and reinforcing requirements.

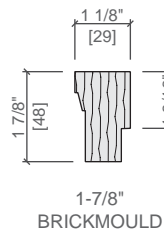


Pella® Reserve™ Traditional Hung Window

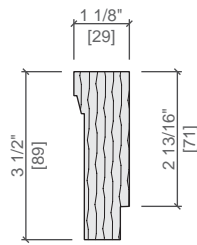
Unit Sections - Wood Exterior Putty Glaze Exterior Profile



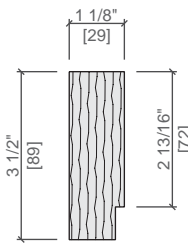
* Dimension required for ordering units with unequal sash.



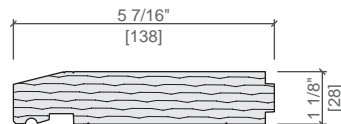
1-7/8" BRICKMOULD



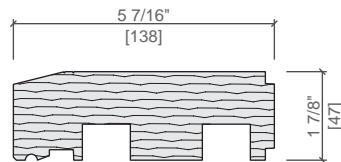
3-1/2" BRICKMOULD



3-1/2" FLAT CASING



OPTIONAL 1-1/8" SUBSILL



OPTIONAL 1-7/8" SUBSILL

Scale 3" = 1' 0"

All dimensions are approximate.

PELLA® RESERVE™ TRADITIONAL



**WOOD &
ALUMINUM-
CLAD WOOD
WINDOWS
& PATIO
DOORS**

EXQUISITELY
DESIGNED
WINDOWS AND
DOORS WITH
UNPARALLELED
HISTORICAL
DETAILING.

NOW YOU SEE THEM, NOW YOU DON'T.
Self-storing Integrated Rolscreen® retractable
screens let in light, fresh air and nothing else.
Close the windows and they roll out of sight.



WHY YOU CAN TRUST PELLA

At Pella, we don't just create windows and doors. We innovate with purpose, design with passion, build with integrity and deliver with pride.

RATED #1 BY HOMEOWNERS FOR INNOVATION¹

We are continually striving to improve what we do and how we do it. That drive has earned us 150 patents and counting for amazing innovations. In 1925 we opened our doors with the patented Rolscreen® retractable screen, a time-tested innovation that is still one of our most desired features today.

RATED #1 BY HOMEOWNERS FOR HIGHEST QUALITY¹

We make products specifically for you with meticulous care and attention. Our wood craftsmen have been honing their skills, on average, for over 14 years – that's longer than it takes for most to earn their PhD. And it doesn't stop there. Our product designs are tested to extremes, so you can trust them to perform. Door designs are opened and closed 100,000 times, and double-hung and casement window designs are tested at least 6,000 times.

#1 LIMITED LIFETIME WARRANTY FOR WOOD WINDOWS AND PATIO DOORS²

You can feel confident in your investment. We pride ourselves on providing exceptional quality, exceeding expectations and going beyond requirements. That's why we stand behind all of our windows and patio doors with a limited lifetime warranty.³

¹ Study of homeowner perceptions of leading national brands. Study commissioned by Pella, 2019.

² Based on comparing written limited warranties of leading national wood window and wood patio door brands. See written limited warranties for complete details, including exceptions and limitations, at pella.com/warranty, or contact Pella Customer Service.

³ See written limited warranties for complete details, including exceptions and limitations, at pella.com/warranty, or contact Pella Customer Service.



**OUR DEDICATED
TEAM IS PART OF
YOUR PROJECT'S
POTENTIAL. WE
PROVIDE SOLUTIONS
TO HELP COMPLETE
YOUR PROJECT."**

**– ALAN PICKETT,
PELLA ARCHITECTURAL
SERVICES**

WHY CHOOSE WOOD?

Get the beauty and warmth of natural wood, our most customizable designs and exceptional energy efficiency. All Pella wood products are made with high-quality wood, metal and manufacturing processes, regardless of product line.

EXCLUSIVE WOOD PROTECTION

Pella’s exclusive EnduraGuard® wood protection is applied after the pieces have been cut and milled, but prior to final assembly, providing advanced protection against the elements.

DESIGNED FOR LONG-LASTING DURABILITY

Intentional jamb-on-sill design helps seal the end grain of the wood and elevates it off the rough opening, reducing the potential to absorb moisture. For added strength and durability, our three-way corner joints are made up of mortise-and-tenon, metal fasteners and commercial adhesive.

QUALITY EXTERIOR AND INTERIOR FINISHES

Extruded aluminum-clad exteriors feature through-stile construction for exceptional durability and EnduraClad® finishes that resist fading and chalking. Interiors can be factory pre-finished to save time. Our prefinish is applied prior to final assembly and kiln-cured for a quality finish.



#1 LIMITED LIFETIME WARRANTY FOR WOOD WINDOWS AND PATIO DOORS*

You can be confident in your investment. At Pella, we are committed to designing and building wood products with exceptional quality and durability. This is supported by:

ENDURAGUARD® WOOD PROTECTION
Advanced protection for wood against the effects of moisture, decay, stains from mold and mildew – as well as termite damage.

EXTERIOR ALUMINUM CLADDING
Exceptionally durable aluminum cladding with EnduraClad® exterior finish helps protect windows and patio doors for years.

INSULATING GLASS SEAL
A long-lasting insulating glass seal provides a clear view and exceptional energy efficiency.

* Based on comparing written limited warranties of leading national wood window and wood patio door brands. See written limited warranty for details, including exceptions and limitations, at pella.com/warranty or contact Pella Customer Service.



Winner of the 2019 Most Innovative Window from Window and Door Magazine



EVERY DETAIL MATTERS

Created for those who refuse to settle for anything less than extraordinary, Pella Reserve products provide unparalleled historical detailing. From authentic hardware and a disappearing screen to sash lugs that allow tilting, we've thought of every detail.



WHY CHOOSE PELLA® RESERVE™ – TRADITIONAL?

Revel in the authenticity and bring your design vision to life. Exuding the tenets of traditional designs, Pella Reserve products provide historical elements with uncompromised attention to detail.

HISTORIC PUTTY PROFILE

Further your aesthetic with the putty profile, recreated with historically accurate angles – providing meaningful depth and a realistic shadow. Pella Reserve products offer the industry's deepest sash dimension.

THROUGH-STILE CONSTRUCTION

Essential to the tradition of window making, butt joinery and through-stile construction create authentic proportions and emulate historic window design.

INTEGRAL LIGHT TECHNOLOGY®

Featuring the industry's only foam spacer solution, Pella's Integral Light Technology helps capture the look of true-divided-light without sacrificing energy efficiency.

AUTHENTIC HARDWARE

Complement your project with historically authentic spoon-lock window hardware. Our Antiek casement window hardware is inspired by period furniture to deliver authentic, traditional style. Add charm to patio doors with premium hardware created in collaboration with Baldwin®.

AVAILABLE IN THESE WINDOW AND PATIO DOOR STYLES:



Awning Window



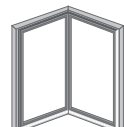
Angle-Top Window



Bay or Bow Window



Casement Window



Corner Window



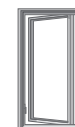
Double-Hung Window



Fixed Window



Single-Hung Window



Push-Out Casement Window



Sliding Patio Door



Hinged Patio Door



Bifold Patio Door



Multi-Slide Patio Door

Special shapes also available.

ACHIEVE YOUR VISION
WITHOUT CONCESSIONS

TAILOR-MADE SOLUTIONS

Partner with Pella. From preliminary drawings to installation, Pella's expert team of architects, engineers, drafters and consultants can work to deliver custom window and door solutions for your project.

THROUGH-STILE CONSTRUCTION

Essential to the authenticity of traditional window making, historical accuracy is achieved by using through-stile construction and butt joinery.

INTEGRATED ROLSCREEN®

Winner of the 2019 Most Innovative Window from *Window and Door Magazine*, the Integrated Rolscreen retractable screen provides a cleaner, more polished look. The Integrated Rolscreen is a double- and single-hung screen that appears when you open the window, and rolls away, out of sight, when you close it.



PUTTY GLAZE PROFILE

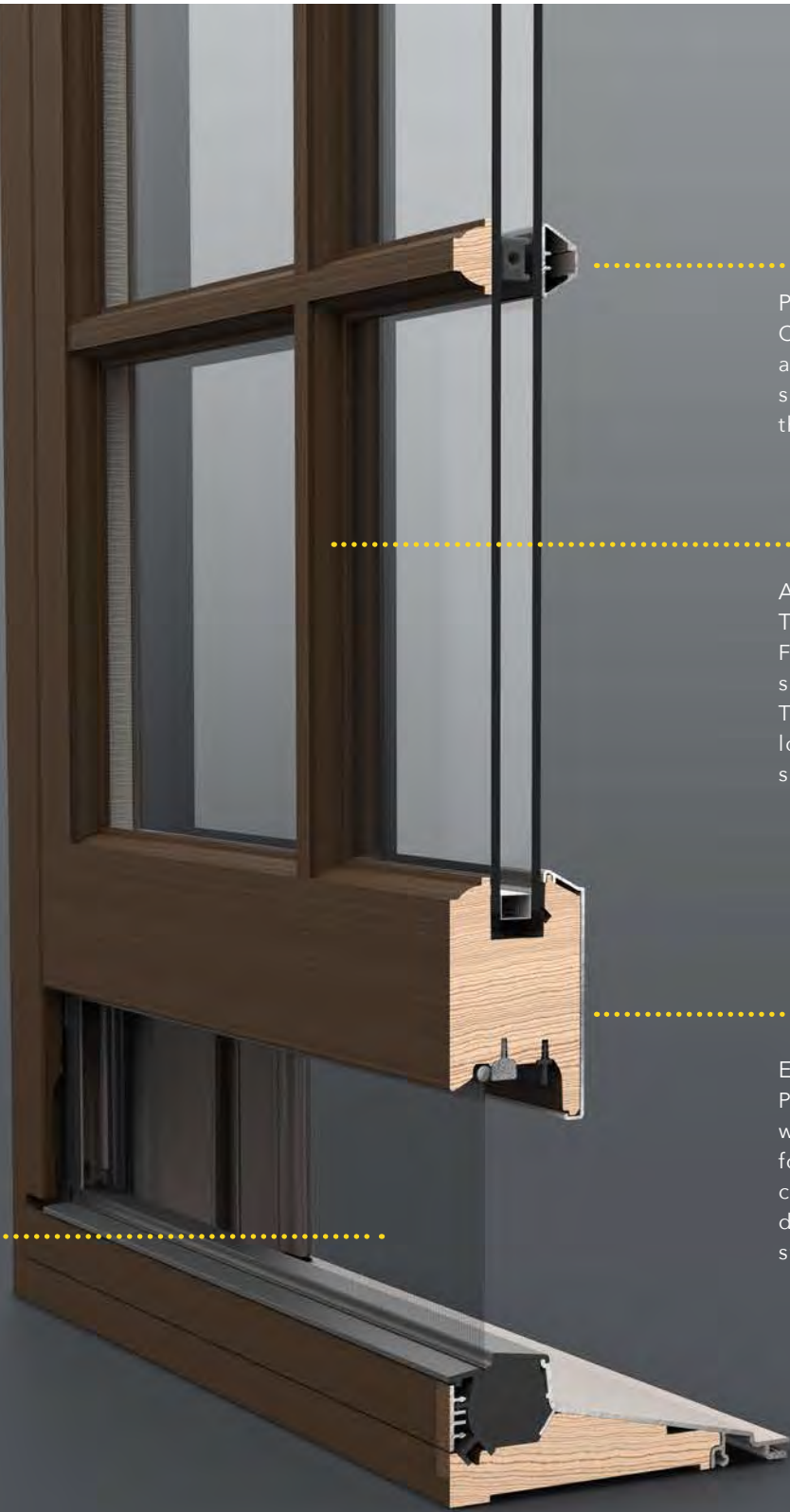
Our putty profile with historically accurate angles provides a realistic shadow. Pella® Reserve™ products offer the industry's deepest sash dimension.

AUTHENTIC LOOK OF
TRUE DIVIDED LIGHT

Featuring the industry's only foam spacer solution, our Integral Light Technology® grilles help capture the look of true-divided-light without sacrificing energy performance.

EXTRUDED ALUMINUM EXTERIORS

Pella Reserve products are available with extruded aluminum-clad exteriors for exceptional durability. Create a custom exterior color to meet your design needs or choose from 27 standard color options.





**WE KNOW DETAILS
MAKE ALL THE
DIFFERENCE. THAT'S
WHY PELLA FOCUSES
ON THE HISTORICAL
DETAILS TO DELIVER THE
LEVEL OF AUTHENTICITY
YOU DESIRE."**

– ALAN PICKETT,
PELLA ARCHITECTURAL SERVICES

THE BEST OF BOTH WORLDS

The Integrated Rolscreen® is there when you need it and hidden when you don't. Stored safely inside the window when its closed the retractable screen gives a cleaner, more polished look and eliminates seasonal screen removal and storage.

COLORS & FINISHES

Wood Types

Choose the wood species that best complements your project's interior.

Custom solutions:



Pine



Douglas Fir



Mahogany



White Oak



Red Oak



Cherry



Maple

Prefinished Pine Interior Colors

When you select pine, we can prefinish in your choice of four paint colors or eleven stains. Unfinished or primed and ready-to-paint are also available.



White



Bright White



Linen White



Artisan Greige



Natural Stain



Wheat Stain



Golden Oak Stain



Early American Stain



Provincial Stain



Dark Mahogany Stain



Red Mahogany Stain



Espresso Stain



Charcoal Stain



Skyline Gray Stain



Black Stain

Extruded Aluminum-Clad Exterior Colors

Our low-maintenance EnduraClad® exterior finish resists chalking and fading. Take durability further with EnduraClad Plus protective finish, which meets the industry's highest exterior coating standard to defend against chalking and fading.*



White



Tan



Putty



Brown



Classic White



Vanilla Cream



Poplar White



Almond



Sand Dune



Honeysuckle



Fossil



Portobello



Deep Olive



Auburn Brown



French Roast



Summer Sage



Hemlock



Hartford Green



Morning Sky Gray



Eldridge Gray



Iron Ore



Black



Naval



Stormy Blue



Real Red



Brick Red



Cranberry

Custom colors are also available.

WINDOW HARDWARE

Classic Collection

Get a timeless look with authentic styles in classic finishes.



Fold-away Crank
Antiek



Spoon-Style Lock

Finishes:



Champagne



White



Brown



Matte Black



Oil-Rubbed Bronze



Satin Nickel



Bright Brass



Antique Brass

Essential Collection

Select from popular designs and finishes to suit every style.



Fold-away Crank



Cam-Action Lock

Finishes:



Champagne



White



Brown



Matte Black



Oil-Rubbed Bronze



Satin Nickel



Bright Brass

PATIO DOOR HARDWARE

Classic Collection

Choose timeless pieces, created in collaboration with Baldwin® Hardware, for a look that will never go out of style.



Hinged & Bifold Patio Door Handle
Locus | Virago



Sliding & Multi-Slide Patio Door Handle
Ambrose



Multi-Slide Patio Door Handle^{1,2}

Finishes:



Matte Black



Oil-Rubbed Bronze



Satin Nickel



Bright Brass



Antique Brass

Essential Collection

Elevate your style and transform your home with elegant selections.



Hinged & Bifold Patio Door Handle



Sliding Patio Door Handle



Multi-Slide Patio Door Handle^{1,2}

Finishes:



Champagne



White



Brown



Matte Black



Oil-Rubbed Bronze



Satin Nickel



Bright Brass

Additional hardware collections available. Visit [pellaADM.com](https://pellaadm.com) for more information.

* EnduraClad Plus protective finish is not available with all colors. See your local Pella sales representative for availability.

¹ Flush multi-slide handle is a Pella exclusive design.
² Flush multi-slide handle is not available in Antique Brass, Champagne or Polished Nickel.

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GRILLES

Grilles

Choose the look of true divided light, removable roomside grilles or make cleaning easier by selecting grilles-between-the-glass.



Putty Glaze
Integral Light
Technology® with
Ogee Interior¹
5/8", 7/8" or 1-1/4"



Roomside
Removable
Grilles¹
3/4", 1-1/4" or 2"



Aluminum
Grilles- Between-
The-Glass 3/4"



Ogee
Integral Light
Technology®¹
7/8", 1-1/4" or 2"

Grilles-between-the-glass Interior Colors:²



White



Ivory



Tan³



Sand
Dune



Putty³



Brown



Harvest



Morning
Sky Gray



Brickstone



Cordovan



Black

GLASS

InsulShield®
Low-E Glass

Advanced Low-E insulating dual-pane glass with argon⁴
Advanced Low-E insulating triple-pane glass with argon or krypton⁴,⁵
AdvancedComfort Low-E insulating dual-pane glass with argon⁴
NaturalSun Low-E insulating dual-pane glass with argon⁴
NaturalSun Low-E insulating triple-pane glass with argon or krypton⁴,⁵
SunDefense™ Low-E insulating dual-pane glass with argon⁴
SunDefense Low-E insulating triple-pane glass with argon or krypton⁴,⁵

Additional
Glass Options

Laminated (non-impact-resistant)⁶,⁷, tinted⁴,⁶ or obscure⁴,⁶ glass also available on select products
STC (Sound Transmission Class)-improved dual-pane sound glass⁵,⁸
Impact-resistant glass⁵,⁶

ADDED PEACE OF MIND

Integrated
Security
Sensors

Choose optional, built-in security sensors powered by Insynctive® technology so you can monitor windows and doors while at home or away with the Pella Insynctive App.⁹
Learn more at pella.com/insynctive.

¹ Color-matched to your product's interior and exterior color.
² Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.
³ Only available with matching interior and exterior colors.
⁴ Optional high-altitude InsulShield Low-E glass is available with or without argon on select products.
⁵ Available on select products only. See your local Pella sales representative for availability.
⁶ Available with Low-E insulating glass with argon on select products.
⁷ For best performance, the laminated glass may be in the interior or exterior pane of the insulating glass, depending on the product.
⁸ Sound control glass consists of dissimilar glass thickness (3mm/5mm).
⁹ Requires the Pella Insynctive App on a smart device, an Insynctive Bridge and a wireless home internet router with internet connection.



REVEL IN THE AUTHENTICITY
Featuring the industry's only foam spacer solution, Pella's Integral Light Technology® grilles help capture the look of true-divided-light without sacrificing energy performance.

LET'S GO SHOPPING

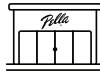
Whether you are in a showroom or on your couch, Pella has the tools and expertise you need to make the right decision – and make it with greater ease.



YOUR PELLA REPRESENTATIVE

Free In-Home Consultation

Get inspired from the comfort of your own home. Schedule a free in-home consultation and a Pella Design Expert will come to you. They'll help you find the right product for your home and budget and provide measurements and a free quote.



DISCOVER PELLA EXPERIENCE CENTERS

Want to see products in person? Visit a Pella Experience Center to work with a dedicated window and door expert. They will curate products to perfectly complement your life and project. Touch products in person and see the latest innovations.



VISIT PELLA.COM

Start from the comfort of your own home. Explore the possibilities online to match your home and personal style, and improve your home's curb appeal. Discover the innovations, features and options that make Pella® windows and doors an exceptional addition to your home.



#1 LIMITED LIFETIME WARRANTY FOR WOOD WINDOWS AND PATIO DOORS*

Pella wood products are backed by the best limited lifetime warranty for wood windows and patio doors.*

A ten-year limited warranty for Baldwin hardware is included. See written limited warranty for details, including exceptions and limitations, at pella.com/warranty.

WANT TO LEARN MORE? CALL US AT 833-44-PELLA OR VISIT PELLA.COM

* Based on comparing written limited warranties of leading national wood window and wood patio door brands. See Pella written Limited Warranty for details, including exceptions and limitations, at pella.com/warranty, or contact Pella Customer Service at 877-473-5527.



Connect with Pella:





















