

*Preliminary Consultation*  
**MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION**  
**STAFF REPORT**

<b>Address:</b>	5602 York Ln., Bethesda	<b>Meeting Date:</b>	12/21/2022
<b>Resource:</b>	Contributing Resource <b>Greenwich Forest Historic District</b>	<b>Report Date:</b>	12/14/2022
<b>Applicant:</b>	Carina Esubalew	<b>Public Notice:</b>	12/7/2022
<b>Review:</b>	Preliminary Consultation	<b>Staff:</b>	Dan Bruechert
<b>Proposal:</b>	Partial Demolition and New Addition, Deck Construction, Fenestration Alterations, and Garage Door Replacement.		

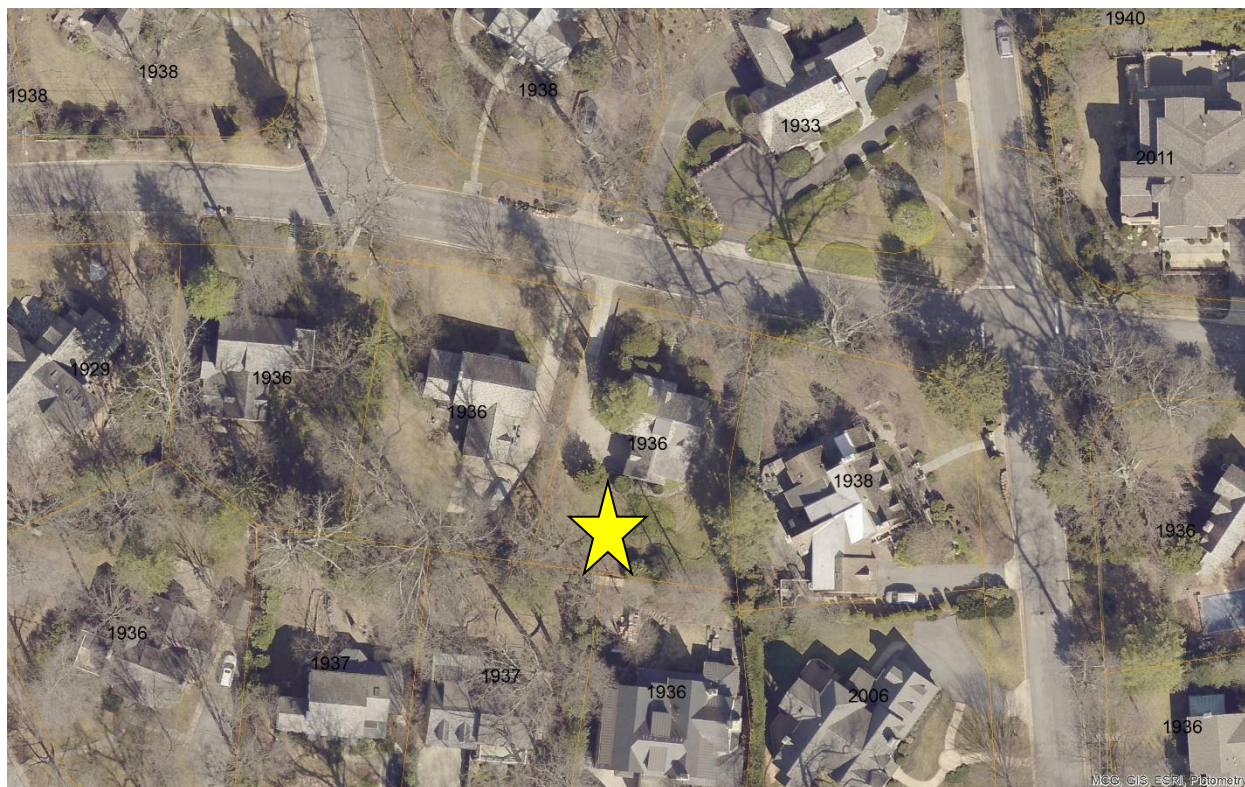
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**STAFF RECOMMENDATION**

Staff recommends the applicant make revisions based on the feedback from the HPC and return for a HAWP.

**ARCHITECTURAL DESCRIPTION**

**SIGNIFICANCE:** Contributing Resource within the Greenwich Forest Historic District  
**STYLE:** Tudor Revival  
**DATE:** 1936



**Figure 1: 5602 York Ln.**

## **PROPOSAL**

The applicant proposes to construct a rear addition, construct a deck, make fenestration alterations, and replace the existing garage door.

## **APPLICABLE GUIDELINES**

When reviewing alterations and new construction within the Greenwich Forest Historic District several documents are to be utilized as guidelines to assist the Commission in developing their decision. These documents include the historic preservation review guidelines in the approved and adopted amendment for the *Greenwich Forest Historic District (Guidelines)*, *Montgomery County Code Chapter 24A (Chapter 24A)*, and *the Secretary of the Interior's Standards for Rehabilitation (Standards)*. The pertinent information in these documents is outlined below.

### ***Greenwich Forest Historic District Guidelines***

#### **A. PRINCIPLES**

The preservation of the following essential elements of Greenwich Forest is the highest priority in making decisions concerning applications for work permits. These Principles are not meant to stop or create unreasonable obstacles to normal maintenance, reasonable modifications, and the evolving needs of residents.

A1. Greenwich Forest was conceived of, built, and to a great degree preserved as a park-like canopied forest with gentle topographic contours, in which the presence of houses and hardscape are understated relative to the natural setting. The removal of mature trees and the significant alteration of topographic contours on private property, the Greenwich Forest Triangle, and the public right-of-way in Greenwich Forest should be avoided whenever possible. The Greenwich Forest Citizens Association (GFCA) will continue to support the replacement of trees. In order to protect mature trees and the natural setting of Greenwich Forest, and to limit runoff into the Chesapeake Bay, the creation of extensive new impermeable hardscape surfaces should be avoided whenever possible.

A2. The houses in Greenwich Forest create an integrated fabric well-suited to its forest setting. These Guidelines are intended to preserve this environment by ensuring that approved work permits include appropriate safeguards that protect the following three essential elements of this fabric:

c. High quality building materials and high level of craftsmanship.

A3. The neighborhood needs to evolve to meet the needs of its residents while maintaining the charm and architectural integrity that have been maintained since the 1930s. Introducing new *architectural styles* that are not already present in the neighborhood will detract from its integrated fabric.

#### **B. BALANCING PRESERVATION AND FLEXIBILITY**

Greenwich Forest represents a period in the evolution of Montgomery County worthy of preservation, but it has also changed in response to the needs of residents since it was created in the 1930s. These Guidelines seek a reasonable compromise between preservation and the needs of residents in several ways.

B1. Most of the houses in the Greenwich Forest Historic District are designated “contributing” because they contribute to the architectural and historic nature of the district. Contributing structures are shown in the map of the districts. These Guidelines are more specific for contributing structures.



B2. Other houses in the district are designated non-contributing either because (1) they were built more recently than contributing houses with other architectural styles (see Appendix 3) or (2) their original features have been significantly altered by subsequent modifications. Non-contributing structures are shown on the map of the District. The Guidelines provide greater flexibility for owners of non-contributing houses.

B3. These Guidelines reflect the reality that nearly all houses in Greenwich Forest have been modified since their construction. Owners are not expected to return their houses to their original configurations. The modifications they are permitted to make under these Guidelines are based on the current reality in the neighborhood, provided that those modifications are consistent with the Principles in these Guidelines.

B4. Property owners have additional flexibility under these Guidelines to make more extensive changes to the parts of their houses that are less visible from the public rights-of-way in front of their houses. The Guidelines accomplish this by stipulating different levels of review for specific elements on different parts of houses.

The *Guidelines* that pertain to this project are as follows:

D1. Changes to *architectural style*: Changes to the *façades of contributing houses* and additions thereto are permitted if the new *front elevation* (1) is consistent with a style of another *contributing house* (see Appendix 3); and (2) is suitable to and does not significantly alter the original outline, shape and scale of the original structure.

D4. *Additions*: Additions to *contributing* and *non-contributing houses* are allowed. The style of an *addition* must be compatible and in keeping with the prevailing styles of that house. The style of the *addition* must be compatible with the style of the original house, unless the owner wishes to change the *architectural style* of both the house and addition to another style of a *contributing house* in Greenwich Forest (see Changes to *architectural style*, below). *Additions to contributing houses* must preserve as a recognizable entity the outline of the original house (not including subsequent additions). Side additions to *contributing houses* are allowed, but the limits of the original *façade* must be demarcated by stepping back the front plane of the addition and by a change in the addition's roofline. Rear *additions* to *contributing houses* are allowed within limitations on height and setbacks (see D5).

D5. Guidelines on dimensions: The total lot coverage of a house may not exceed 25% of the lot area, and accessory buildings may not exceed 5% of the lot area. The area of an accessory building may be increased by 2%, to 7% of total lot coverage, if the lot coverage of the house and the accessory buildings added together does not exceed 30% of lot area.

Additions should try to preserve ample spacing between houses (see Principle 2b). For example, visual crowding between houses could be minimized by placing an addition toward the back of a property, placing an addition on the side of a property with greater distance to the adjacent house (especially when a side lot abuts the rear setback of an adjacent corner house), or by screening additions with plantings. The total of the two side lot setbacks must be at least 18', with no less than 7' on one side. Rear lot setbacks must be at least 25', though decks no higher than 3' from the ground may extend to an 11' setback.

The elevation of the main or predominant ridgeline(s) of a *contributing house* as viewed from the front may not be increased. To avoid excessive increases in the visual mass of houses, the elevation of any separate ridgelines

D7. Building materials: Replacement of roofs, siding, and trim with original materials is strongly recommended and is considered maintenance that will not require an application for a work permit. Use

of non-original “like materials” such as architectural asphalt shingles requires a work permit to ensure that they match the scale, texture, and detail of the original materials and are consistent with the overall design of the existing house. For example, homeowners wishing to replace slate or tile roofs may use alternative materials that match the scale, texture, and detail of the roof being replaced. If an original slate or tile roof had been replaced with non-original material before July 1, 2011, the homeowner may replace the existing roof in kind or with another material consistent with the architectural style of that house.

D11. Runoff control: Proposals for work permits should consider rainwater runoff problems that may be created by additions and other property and structural alterations. Solutions to these problems should protect trees and maximize the on-property control of this runoff by drainage fields, installation of permeable rather than impermeable surfaces, and other available means.

D16. Walkways and patios: Reconfiguration and replacement of existing pathways and patios that would not result in a net addition of impermeable hardscape surfaces are considered landscaping and do not require an application for a work permit. The installation of new walkways and patios requires a work permit and should minimize the creation of new impermeable hardscape surfaces (see Principle 1).

D17. Windows, dormers, and doors: Door and window replacements are acceptable, as long as the replacements are compatible with the architectural style of the house. Replacement windows with true or simulated divided lights are acceptable, but removable (‘snap-in’) muntins are not permitted on front-facing windows of contributing houses. Front-facing dormer additions to third floors are permitted on non-contributing houses and on contributing houses, if such additions do not involve raising the main roof ridge line (as specified in D5) and if the addition is compatible in scale, proportion, and architectural style of the original house.

According to the *Guidelines*, the three levels of review are as follows:

Limited scrutiny is the least rigorous level of review. With this level, the scope or criteria used in the review of applications for work permits is more limited and emphasizes the overall structure rather than materials and architectural details. The decision-making body should base its review on maintaining compatibility with the design, texture, scale, spacing and placement of surrounding houses and the impact of the proposed change on the streetscape.

Moderate scrutiny is a higher level of review than limited scrutiny and adds consideration of the preservation of the property to the requirements of limited scrutiny. Alterations should be designed so the altered structure does not detract from the fabric of Greenwich Forest while affording homeowners reasonable flexibility. Use of compatible new materials or materials that replicate the original, rather than original building materials, should be permitted. Planned changes should be compatible with the structure's existing architectural designs.

Strict scrutiny is the highest level of review. It adds consideration of the integrity and preservation of significant architectural or landscape features and details to the requirements of the limited and moderate scrutiny levels. Changes may be permitted if, after careful review, they do not significantly compromise the original features of the structure or landscape.

#### ***Sec. 24A-8. Same-Criteria for Issuance***

- (a) The commission shall instruct the director to deny a permit if it finds, based on the evidence and information presented to or before the commission that the alteration for which the permit is sought would be inappropriate, inconsistent with or detrimental to the preservation, enhancement or ultimate protection of the historic site or historic resource within an historic district, and to the purposes of this chapter.

(b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to insure conformity with the purposes and requirements of this chapter, if it finds that:

(1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or

(2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or

(d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (*Ord. No. 9-4, § 1; Ord. No. 11-59*)

### ***Secretary of Interior's Standards for Rehabilitation***

The Secretary of the Interior defines rehabilitation as “the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.” Standards 2, 9, and 10 most directly apply to the application before the commission:

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportions, and massing to protect the integrity of the property and its environment.

10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

### **STAFF DISCUSSION**

The subject property is a brick two-story Tudor Revival, with a slate roof. As with all of the houses in Greenwich Forest, the subject house included an attached garage. Because of the grade on site, this garage was constructed at the basement level, engaged into the existing site slope.

The applicant proposes to:

- Demolishing the existing rear wing, a large portion of the rear wall, and screened-in porch;
- Construct a taller addition in its footprint;
- Construct a rear deck;
- Close in a side door and side window; and
- Install a new garage door.

### **Partial Demolition**

All of the demolition work proposed is to accommodate a new rear addition, discussed below. Staff finds the demolition work is necessary for the new construction, and the HPC's decision regarding that new construction will dictate the appropriateness of the demolition work.



### Rear Addition

In the footprint of the existing garage and screened-in porch, the applicant proposes to construct a two-story, rear gable addition. The addition will be sided in fiber cement clapboards and have multi-lite aluminum clad casement windows and a synthetic slate roof. The addition's ridge height matches the ridge height on the front gable but is several feet below the principal, side-gable ridge. Additionally, the left side elevation will be inset from the historic wall plane by approximately 6" (six inches). The rear of the addition includes a six-door assembly to access the proposed rear deck (discussed below).

The *Design Guidelines* for the district are fairly prescriptive and require a very specific analysis for building additions and new constructions. The first priority is that the addition must preserve the historic house as a recognizable outline. Staff finds the proposal will not impact the street-facing elevations of the house and does preserve the original outline of the house. Second, the addition needs to be compatible and in keeping with the style of the house. Staff finds the proposed addition will not visually compete with the historic house design; however, it appears that the only element that ties the addition to the historic house are the multi-lite casement windows. Staff requests feedback from the HPC on whether the addition's design "is in keeping with the style of the house." The third consideration is lot coverage. This addition will build on top of the existing garage and porch foundation, and will not increase the lot coverage – nor will it impact the existing side setbacks. Fourth, the *Guidelines* allow for replacement materials, such as faux slate, but also demand high-quality building materials and a high level of craftsmanship. Staff requests feedback from the HPC to determine if this proposal has satisfied the requirement.

Staff requests HPC feedback on:

- The appropriateness of the design in keeping with the historic house style;
- Whether the identified building materials satisfy the district's requirement for high-quality materials;
- Any other input about the design, size, scale, or massing of the proposed addition.

Staff would also like the HPC to provide feedback on the desirability of retaining the indentation from the porch to the garage. As it is constructed in a small scale (shown below), the treatment of the corners adds interest to the building's design, however, Staff has some reservations that the design is a bit awkward and that the 'notch' should be extended to make the rear addition a simple rectangle.



Figure 2: the left rear corner of the subject property showing the intersection of the rear porch and garage.



*Figure 3: The rear corner of the addition retains the corners of the garage and porch. Should this outline be preserved?*

### Deck Construction

At the rear of the proposed addition, the applicant proposes to construct a 10' × 18' (ten foot by eighteen foot) deck. The deck includes a single run of stairs at the rear from the deck to the driveway. Material specifications for the deck and railing were not included with the application materials. A concrete walkway will be relocated to accommodate the proposed deck.

Staff finds the deck is appropriate, in theory. Staff finds both the size and placement of the deck are appropriate and will not detract from the character of the house or surrounding district. The elevation and plan drawings do not indicate how the proposed deck will be supported and how the grade will be impacted to prevent significant runoff. This is a significant concern for the district (see D11) and these details need to be included in the HAWP application.

Staff finds the appropriate material for the decking and stairs is wood and the final drawings should reflect that. Additionally, Staff finds that the design of the house could accommodate either a metal or wood railing; however, the railing should be constructed out of a single material so as not to overcomplicate the design.

### Fenestration Alteration

The applicant proposes to remove the existing multi-lite steel casement windows and replace them with new aluminum clad multi-lite windows. Additionally, the applicant proposes to block in two openings: a door on the left elevation towards the rear and a right-side second-story window behind the existing chimney.

The *Design Guidelines* (D17) allow for the replacement of historic windows with new windows that are appropriate for the style of the house without the typical requirement that the windows have deteriorated beyond repair. Staff finds the proposed multi-lite casement windows are consistent with the Tudor Revival style of the house and would recommend the HPC approve the replacement as a HAWP.

Staff finds the door on the left elevation is the fourth bay to the rear on that elevation and its removal will not detract from the character of the house or surrounding district. Detailed specifications for the treatment of that opening were not included in the submitted materials. Staff also finds the right-side second-story window is largely obscured by the existing chimney and its removal will not detract from

the character of the house. If the HPC concurs with Staff's finding that removing the window and door will not negatively impact the character of the house, Staff recommends the opening be infilled with bricks recovered from the partial demolition at the rear; and require the mortar matches the visual and physical characteristics of the historic. The house exterior is construed out of a mix of bricks, including clinker bricks which results in a mottled exterior color and texture. Installing these reclaimed bricks in the openings would avoid an incongruous appearance and better blend in with the character of the district.

Staff additionally requests feedback from the HPC regarding the appropriate treatment of these openings. Should they be filled in to create a blank opening that retains the sills and is inset from the wall plan or should the bricks be installed to create a smooth wall surface, consistent with the historic brickwork?

### **Garage Door Replacement**

The existing garage door is a metal roll-up door with a row of lights at the top. The applicant proposes to install a new steel roll-up door with lights in the top row.

Staff finds that this change is not an exact, in-kind replacement, but is a de minimis change and would recommend the HPC approve it as a HAWP.

### **STAFF RECOMMENDATION**

Staff recommends the applicant make the revisions recommended by the HPC and return for a HAWP.





APPLICATION FOR  
HISTORIC AREA WORK PERMIT  
HISTORIC PRESERVATION COMMISSION  
301.563.3400

FOR STAFF ONLY:

HAWP# \_\_\_\_\_

DATE ASSIGNED \_\_\_\_\_

**APPLICANT:**

Name: \_\_\_\_\_

E-mail: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Zip: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_

Tax Account No.: \_\_\_\_\_

**AGENT/CONTACT (if applicable):**

Name: \_\_\_\_\_

E-mail: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Zip: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_

Contractor Registration No.: \_\_\_\_\_

**LOCATION OF BUILDING/PREMISE:** MIHP # of Historic Property \_\_\_\_\_

Is the Property Located within an Historic District? ☐ Yes/District Name \_\_\_\_\_

☐ No/Individual Site Name \_\_\_\_\_

Is there an Historic Preservation/Land Trust/Environmental Easement on the Property? If YES, include a map of the easement, and documentation from the Easement Holder supporting this application.

Are other Planning and/or Hearing Examiner Approvals /Reviews Required as part of this Application? (Conditional Use, Variance, Record Plat, etc.?) If YES, include information on these reviews as supplemental information.

Building Number: \_\_\_\_\_ Street: \_\_\_\_\_

Town/City: \_\_\_\_\_ Nearest Cross Street: \_\_\_\_\_

Lot: \_\_\_\_\_ Block: \_\_\_\_\_ Subdivision: \_\_\_\_\_ Parcel: \_\_\_\_\_

**TYPE OF WORK PROPOSED: See the checklist on Page 4 to verify that all supporting items for proposed work are submitted with this application. Incomplete Applications will not be accepted for review. Check all that apply:**

☐ New Construction

☐ Deck/Porch

☐ Shed/Garage/Accessory Structure

☐ Addition

☐ Fence

☐ Solar

☐ Demolition

☐ Hardscape/Landscape

☐ Tree removal/planting

☐ Grading/Excavation

☐ Roof

☐ Window/Door

☐ Other: \_\_\_\_\_

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

\_\_\_\_\_  
Signature of owner or authorized agent

\_\_\_\_\_  
Date

**HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFYING**  
[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

<b>Owner's mailing address</b>	<b>Owner's Agent's mailing address</b>
<b>Adjacent and confronting Property Owners mailing addresses</b>	

**Description of Property:** Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

**Description of Work Proposed:** Please give an overview of the work to be undertaken:



Work Item 1: _____	
Description of Current Condition:	Proposed Work:

Work Item 2: _____	
Description of Current Condition:	Proposed Work:

Work Item 3: _____	
Description of Current Condition:	Proposed Work:

# HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Excavation/ Landscaping	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*

PLAT OF  
ADDITION TO  
GREENWICH FOREST  
MONTGOMERY COUNTY, MARYLAND

April 1935

Scale: 1 inch = 100 feet.

ENGINEERS CERTIFICATION

I hereby certify that the plat hereon delineated is correct, that it is a subdivision of the lands known as: Lots 1 to 8 incl. and part of 9, in Block 12-C.

All of Block Q.

Lots 2 to 11, incl. in Block U.

Lots 1 to 7, incl. and Lots 16 and part of 17, in Block R. in the subdivision of Huntington, Section 4, as per plat recorded among the Land Records of Montgomery County Maryland in Plat Book No. 4 Plat No. 376. This being the same lands as conveyed by Shirley R. Kaplan to Greenwich Forest Inc. by deed recorded among the Land Records of Montgomery Co. Maryland in Liber 582 of folio 371. Date Nov. 20, 1934.

And that the stones marked thus: ● and the iron pipes marked thus: ● have been placed as shown.

Date April 1, 1935.

*William C. Root*

OWNERS DEDICATION

Greenwich Forest Inc. being the owner of the property described in the Engineers Certification hereby adopt the plan of subdivision and establish the minimum building restriction lines as shown.

Date April 1, 1935.

*Joseph Carroll*  
President  
*John W. Swope, Jr.*  
Vice President



CURVE	LOT	RADIUS	CENTRAL ANGLE	ARC	CHD. BEARING	CHORD
12-C	18	1528.0	1°26'59"	38.66	N.29°42'34"W.	38.65
12-C	18	4584	0°27'15"	36.34	N.28°45'27"W.	36.34
12-C	19	4584	0°56'15"	75.00	N.28°03'42"W.	75.00
12-C	20	4584	0°56'15"	75.00	N.27°07'27"W.	75.00
12-C	21	4584	0°56'15"	75.00	N.26°11'12"W.	75.00
12-C	22	819.0	7°58'33"	114.01	N.70°13'42"E.	113.92
12-C	22	25.0	81°33'57"	35.59	S.65°00'04"E.	32.66
12-C	22	4584.0	1°29'59"	120.0	S.24°58'00"E.	119.98
12-C	PAR 1	1528.0	3°44'59"	100.00	N.32°18'33"W.	99.97
12-C	" 2	1528.0	2°48'44"	75.0	N.35°35'24"W.	74.99
12-C	" 3	1528.0	2°48'44"	75.0	N.38°24'08"W.	74.99
12-C	" 4	1528.0	0°50'20"	22.37	N.40°18'40"W.	22.37
12-C	" 4	862.29	3°29'49"	52.63	N.38°53'56"W.	52.62
12-C	" 5	862.29	6°54'38"	104.00	N.33°41'42"W.	103.94
12-C	" 6	862.29	2°05'23"	31.45	N.29°11'42"W.	31.45
12-C	" 6	39.01	97°43'40"	66.54	N.20°42'50"E.	58.77
Q	21	5680.0	0°53'53"	89.02	N.5°31'23"W.	89.02
Q	21	25.0	75°43'40"	33.04	N.43°50'10"W.	30.69
Q	21	1933.22	2°22'16"	80.00	N.80°30'52"W.	80.00
Q	22	1933.22	2°29'22"	84.00	N.78°05'03"W.	83.99
Q	23	1933.22	0°46'59"	26.42	N.76°26'52"W.	26.42
Q	23	819.00	5°06'26"	73.00	N.78°36'36"W.	72.98
Q	24	819.00	6°59'46"	100.00	N.84°39'42"W.	99.94
Q	25	819.00	9°28'54"	135.54	S.87°05'58"W.	135.38
Q	25	25.00	106°53'55"	46.64	S.28°54'53"W.	40.16
Q	25	4524.00	1°32'37"	121.88	S.25°18'02"E.	121.87
Q	26	4524.00	1°23'35"	110.00	S.26°46'08"E.	109.99
Q	26	25.00	57°43'35"	25.19	S.56°19'44"E.	24.14
Q	30	5680.0	1°00'31"	100.00	N.4°34'11"W.	99.99
Q	30	25.00	98°52'25"	43.14	N.45°22'17"E.	37.98
U	16	25.0	123°47'33"	54.01	N.32°54'43"E.	44.11
U	16	1468.0	4°41'06"	120.04	N.31°19'37"W.	120.00
U	17	1468.0	3°42'24"	94.96	N.35°31'22"W.	94.95
U	18	1468.0	0°16'59"	7.25	N.37°31'04"W.	7.25
U	18	156.02	38°11'37"	104.00	N.56°45'22"W.	102.09
U	19	156.02	63°27'03"	172.78	N.72°25'18"E.	164.08
R	24	260.0	2°49'55"	12.85	S.0°56'32"E.	12.85
R	24	5730	0°44'29"	74.15	S.2°43'44"E.	74.14
R	25	5730	0°49'28"	83.00	S.3°30'52"E.	82.99
R	26	5730	0°43'00"	80.00	S.4°19'46"E.	79.99
R	27	5730	1°01'02"	101.74	S.5°14'17"E.	101.73
R	27	1933.22	3°45'02"	126.55	S.86°34'28"E.	126.52
R	27	25.00	101°02'51"	44.09	N.44°46'38"E.	38.60

WASHINGTON SUBURBAN SANITARY DISTRICT  
APPROVED APR. 15, 1935  
AS TO SUITABILITY FOR WATER AND SEWER  
*Robert S. Moore*  
CHIEF ENGINEER

MARYLAND NATIONAL CAPITAL PARK & PLANNING COM.M.  
APPROVED APR. 12, 1935  
DATE  
*William C. Root*  
CHIEF ENGINEER  
*Geo. H. Palmer*  
CHIEF ENGINEER  
*Chas. H. Jones*  
SECRETARY  
M.N.C.P. & P.C. RECORD FILE NO. 377



DEPARTMENT OF PERMITTING SERVICES

Marc Elrich  
County Executive

Mitra Pedoeem  
Director

# HISTORIC AREA WORK PERMIT APPLICATION

Application Date: 11/29/2022

Application No: 1014434  
AP Type: HISTORIC  
Customer No: 1452626

## Affidavit Acknowledgement

The Contractor is the Primary applicant authorized by the property owner  
This application does not violate any covenants and deed restrictions

## Primary Applicant Information

Address 5602 YORK LN  
BETHESDA, MD 20814  
Homeowner Dilan Investments LLC  
Othercontact Mehmetoglu (Primary)

## Historic Area Work Permit Details

Work Type CONST

REBUILDING FIRST FLOOR REAR ADDITION WITH AN ADDITIONAL SECOND FLOOR ON THE EXISTING FOOTPRINT PER PLAN. INTERIOR RENOVATION TO INCLUDE FRAMING, DRYWALL, DOORS, TRIM, CABINETS, PAINTING & FLOORING. PER PLAN. DEMOLISHING THE INTERIOR STAIRS & CONSTRUCTING NEW STAIRS FOR ALL FLOORS. REMOVING THE ATTIC STAIRS AND BUILDING AN ACCESS HATCH ADDING A MASTER BATHROOM ON THE SECOND FLOOR. REPLACEMENT OF ALL ELECTRICAL, MECHANICAL & PLUMBING SYSTEMS. REPLACEMENT OF ALL DOORS AND WINDOWS AS INDICATED IN THE PLANS. CLOSING ONE WINDOW ON THE SECOND FLOOR AND CLOSING THE SIDE EXTERIOR DOOR PER PLAN. ALTERING REAR BUILDING FACADE PER PLAN. BUILDING A NEW 10' X 18' DECK WITH STAIRS. SHIFTING AND REBUILDING REAR CONCRETE WALKWAY PER PLAN TO ACCOMMODATE THE NEW DECK REPAIRING FRONT PORCH REPLACING 4" SLAB IN THE BASEMENT AND GARAGE. REPLACING GARAGE DOOR

# Written Narrative

The site of our design proposal is at **5602 York Lane, Bethesda MD. 20814**. Built in 1936, it is a three story residential house located on a 0.26 acre lot in the historic part of Greenwich Forest neighborhood, which consists of Tudor-Revival style single family homes. The original character of this property are still intact and include original wood doors, exterior front porch wood banister and rails, and a slate roof. On behalf of Dilan Investments LLC, the current property owners, we are proposing significant exterior and interior renovations that will restore and repair its current layout while rebuilding the first floor rear addition and adding a second floor on top. This new rear addition will have a new rear facade that uses hardi-plank siding in contrast to the existing brick exterior around the rest of the house. The exterior front porch needs to be repaired, and the existing rear concrete walkway will be shifted and rebuilt to accommodate a new 10' x 18' deck with stairs accessed from the first floor rear addition. We are also proposing to replace the existing garage door.

For interior renovations, our design proposal includes framing, drywall, trim, cabinets, flooring, and painting for all existing floors. The new master bathroom will be added on the second floor. All electrical, mechanical, and plumbing systems are to be replaced as well as all exterior doors and windows per plan. The window and door replacements will look identical in appearance, but will operate differently. One side exterior door will be closed on the first floor, and five windows will be closed on the second floor to accommodate the new second floor addition. The interior stairs for the basement, first, and second floor will be removed and reconstructed per plan, while the attic stairs will be removed and have an access hatch. Lastly, we are also proposing to replace the 4 inch concrete slab in the garage and basement level due to its poor condition. The new two-story addition is 978 square feet.

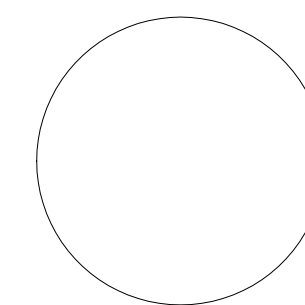




1600 RHODE ISLAND AVE NE  
WASHINGTON DC 20018  
TEL:(202)309-4514

**5602 YORK LN BETHESDA,  
MD 20814**

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**SHEET TITLE:**

## EXISTING SITE PLAN AND TREE SURVEY

**SHEET NUMBER:**

CIV-1

DATE:

11/28/2022



STAMP:



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SHEET TITLE:

PROPOSED SITE PLAN AND  
TREE SURVEY

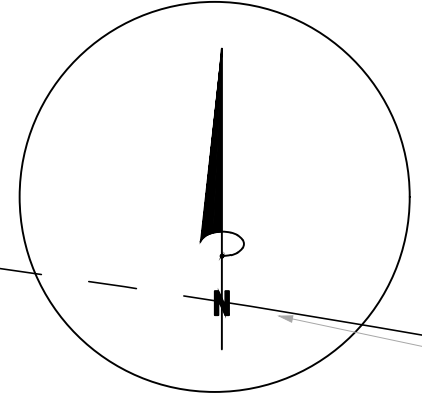
SHEET NUMBER:

CIV-2

DATE:

11/28/2022

VICINITY MAP  
N.T.S.



UTILITY DISCLAIMER

THE UNDERGROUND UTILITIES HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

WSSC BENCHMARK

TOP OF SEWER MANHOLE#23N  
AS PER W.S.S.C. SEWER MANHOLE  
SHEET NO. 212NW06

ELEVATION: 379.02

PRIMARY STRUCTURE BUILT 1936

GENERAL NOTES:

PROPERTY IS ZONED:  
PLAT# 821  
LIBER #825 FOLD 1  
LOT 22, BLOCK Q, ADDN TO GREENWICH FOREST SUBDV  
#5602 YORK LANE BETHESDA, MD 20814  
OWNER: EKUND JOHN C.

LOT COVERAGE

TOTAL LOT AREA (BY RECORD) = 11,134.0 SQ. FT.  
BUILDING AREA = 1,148.0 SQ. FT.  
% COVERAGE = 10.31%

HEIGHT OF BUILDING

2 STORY STY. BRICK W/BSMT.  
FIRST FLOOR ELEVATION = SEE DRAWING

SETBACK REQUIREMENTS

SEE COUNTY CURRENT ZONING  
REQUIREMENTS BEFORE USE ZONING INFO.

CERTIFICATE

I HEREBY CERTIFY THAT THE POSITION OF  
THE EXISTING IMPROVEMENTS ON THE ABOVE  
DESCRIBED PROPERTY HAS BEEN CAREFULLY  
ESTABLISHED BY A TRANSIT-TIME SURVEY.

ANDREW HUSBAND  
PROFESSIONAL LAND SURVEYOR No. 21189

- LEGEND
- ① PEPCO MANHOLE
  - ② SEWER MANHOLE
  - ③ TELEPHONE MANHOLE
  - ④ WATER MANHOLE
  - PH- FIRE HYDRANT
  - G- GAS METER
  - LP- LIGHT POLE
  - UP- UTILITY POLE
  - WM- WATER METER
  - WV- WATER VALVE
  - M/W- MONITORING WELL
  - E- ELECTRIC POWER LINE
  - G- GAS LINE
  - S- SEWER LINE
  - T- TELEPHONE LINE
  - W- WATER LINE
  - X- CHAIN LINK FENCE
  - W- WINDOW WELL
  - G- GUY WIRE
  - W- WOOD FENCE

UTILITY COMPANIES

POTOMAC ELECTRIC POWER CO.  
701 5TH STREET, N.W. ROOM NO-6005  
WASHINGTON, D.C. 20068-0001  
202-334-6237 FAX: 202-331-6234

GAS SERVICE  
WASHINGTON GAS COMPANY  
6801 INDUSTRIAL RD  
SPRINGFIELD, VA. 22151  
703-750-4256

TELEPHONE SERVICE  
VERIZON  
3901 CALVERTON BOULEVARD  
BELTSVILLE, MD. 20705  
301-595-6139

SEWER & WATER SERVICE  
W.S.S.C.  
14501 SWEETZER LANE  
LAUREL, MARYLAND  
301-266-4001

IPF IRON PIPE FOUND  
IPS IRON PIPE SET

DRAWN R.P.  
DESIGNED  
CHECKED A.H.  
SCALE 1" = 10'

AAH CONSULTANTS LLC  
ENGINEERS - SURVEYORS & CONSULTANTS  
4200 FORBES BLVD. SUITE 111  
LANHAM, MARYLAND 20706  
429-1750 (PH) 429-1757 (FAX)

#5602 YORK LANE  
BETHESDA, MD 20814

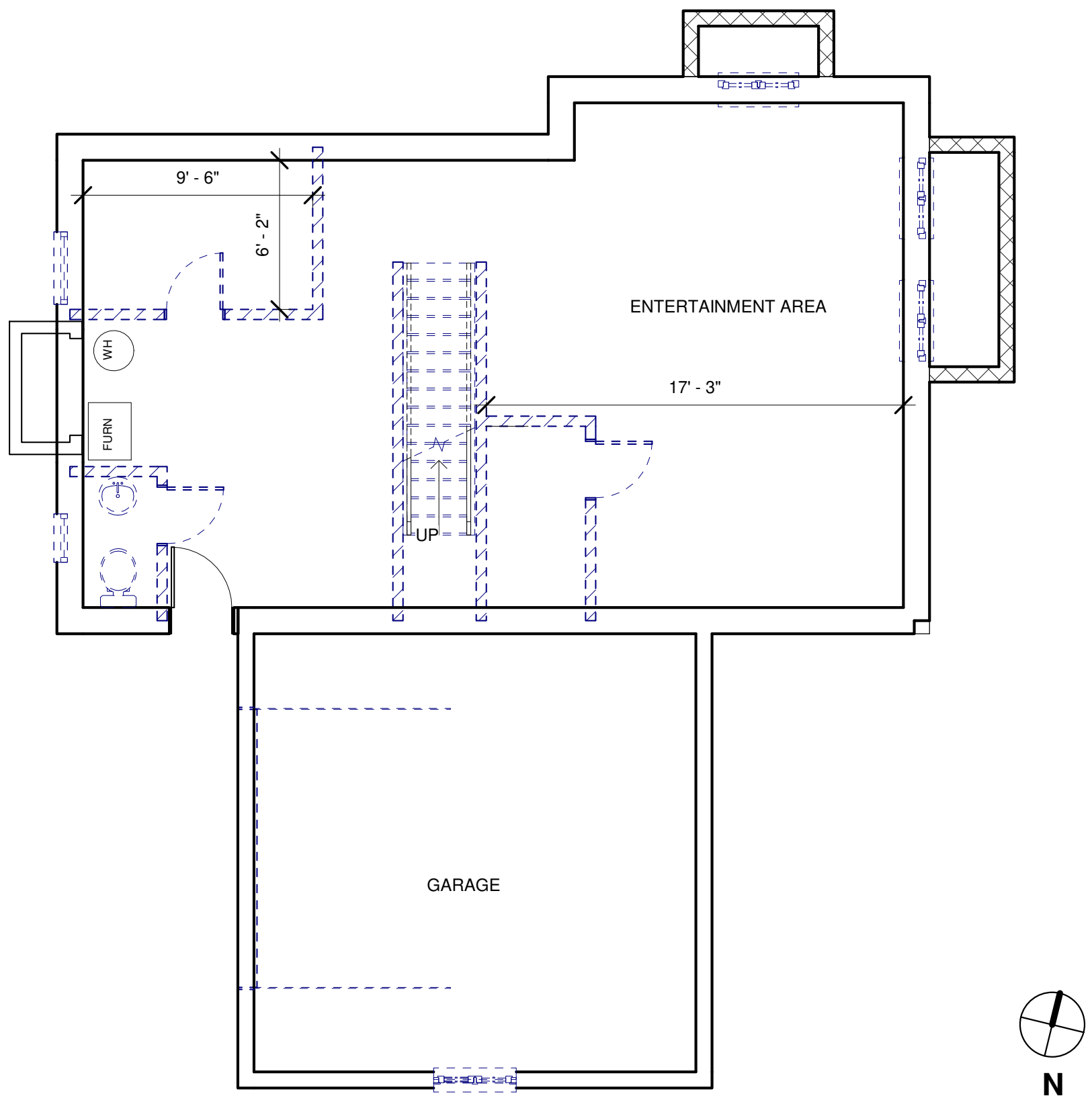
EXISTING CONDITION  
LOT 22 BLOCK Q  
ADDITION TO GERRINCH FOREST  
MONTGOMERY COUNTY, MARYLAND

DATE 11-10-22  
SHEET 1 OF 1  
JOB No. 22-345

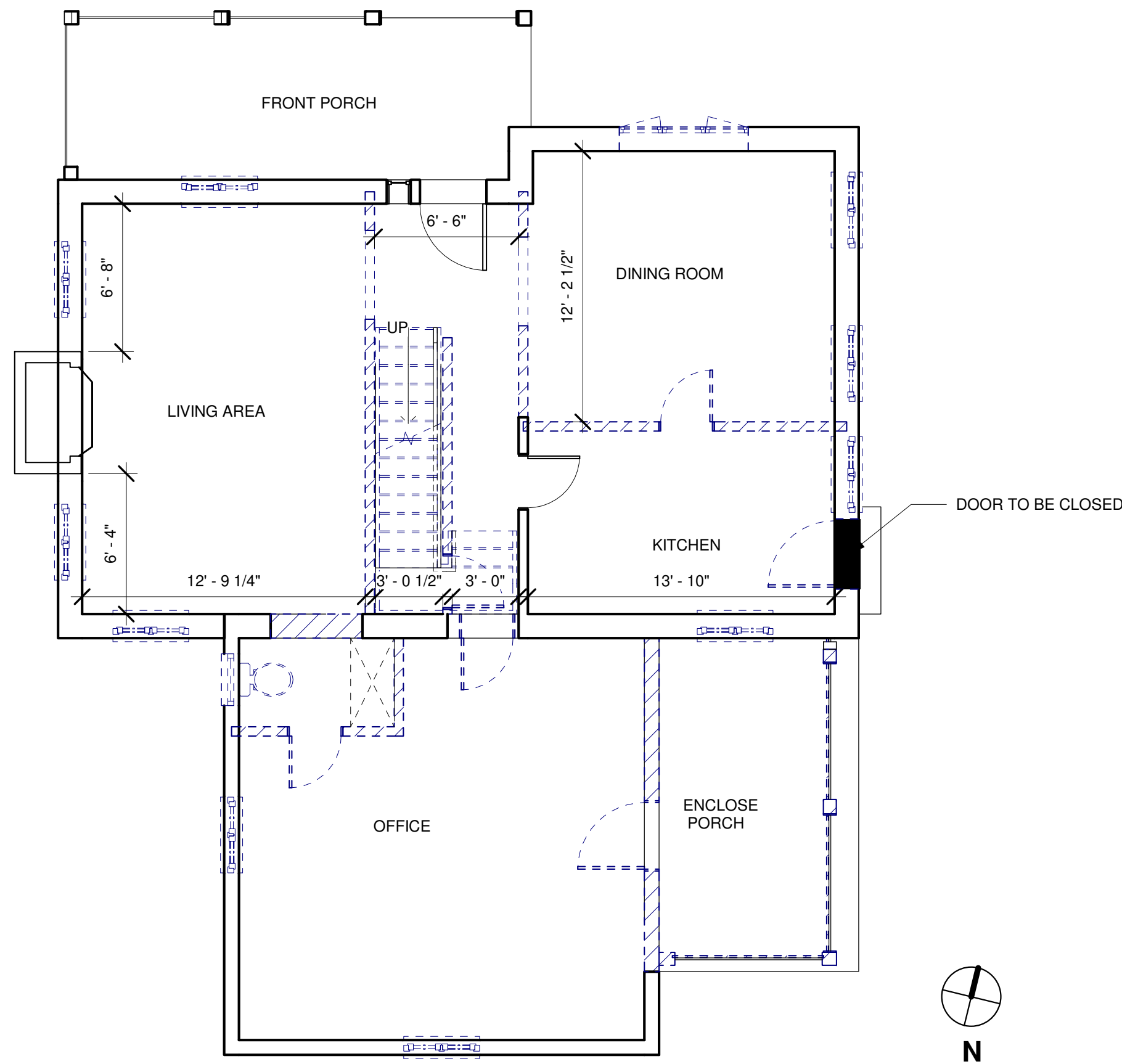


DEMO GENERAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN REQUIRED MEANS OF EGRESS AND ENSURE THAT EXIT ROUTES ARE PROTECTED AS REQUIRED.
2. CONTRACTOR IS RESPONSIBLE FOR BUILDING SECURITY DURING THE DEMOLITION PHASE AND IS TO PROTECT OPENINGS FROM WEATHER CONDITIONS AND SECURE THEM TO PREVENT VANDALISM.
3. DO NOT PERFORM WORK THAT WILL VOID WARRANTIES OF EXISTING WEATHER EXPOSED ON MOISTURE RESISTANT ELEMENT WITHOUT PRIOR APPROVAL FROM THE OWNER.
4. THE DESIGNER ASSUMES NO RESPONSIBILITIES RELATING TO TOXIC MATERIALS, INCLUDING ASBESTOS AND ASSUMES NO RESPONSIBILITY.
5. TO ITS EXISTENCE OR REMOVAL, THE OWNER WILL TAKE ACTION FOR DIRECTLY CONTRACTING WITH A CONSULTANT OR SPECIALIST, LICENSED BY THE STATE, FOR SUCH SERVICES SHOULD THOSE SERVICES BE REQUIRED FOR THIS PROJECT.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF DEMOLITION DEBRIS. VERIFY THE DEMOLITION STAGING AREA, AND THE LOCATION OF THE DUMPSTERS WITH THE OWNER PRIOR TO THE START OF DEMOLITION. DISPOSAL OF DEBRIS SHALL BE DONE IN ACCORDANCE TO LOCAL LAW. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY DEMOLISHED ITEM. VERIFY ITEMS TO BE SALVAGED BY THE OWNER PRIOR TO DEMOLITION.
7. REMOVE PROTECT, CLEAN, REPAIR FOR REUSE AND TURN OVER SUCH ITEMS AS DIRECTED BY THE OWNER.
9. PATCH AND REPAIR DAMAGED FINISHES, ITEMS AND FIXTURES TO REMAN AND/OR REPLACE IN KIND TO MATCH EXISTING FROM DAMAGE DURING THE PROGRESS OF THE WORK. PROVIDE TEMPORARY SAFETY BARRIERS REQUIRED BY CODE TO INSURE PUBLIC SAFETY AND TO ALLOW BUILDING OCCUPANCY.
10. PROVIDE SHORING, BRACING, BARRICADES AND PROTECTIVE MEASURES AS REQUIRED TO SAFELY EXECUTE THE WORK IN THE CONSTRUCTION AREA AND THE AREAS ADJACENT TO THE CONSTRUCTION AREA. IF THE STRUCTURE APPEARS TO BE ENDANGERED, CEASE OPERATION AND NOTIFY THE DESIGNER IMMEDIATELY. DO NOT RESUME THAT PORTION OF THE WORK UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN.



1 EXISTING BASEMENT DEMO PLAN  
3/16" = 1'-0"



2 EXISTING FIRST DEMO PLAN  
3/16" = 1'-0"

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SHEET TITLE:

EXISTING AND DEMO  
PLANS

SHEET NUMBER:

AD-01

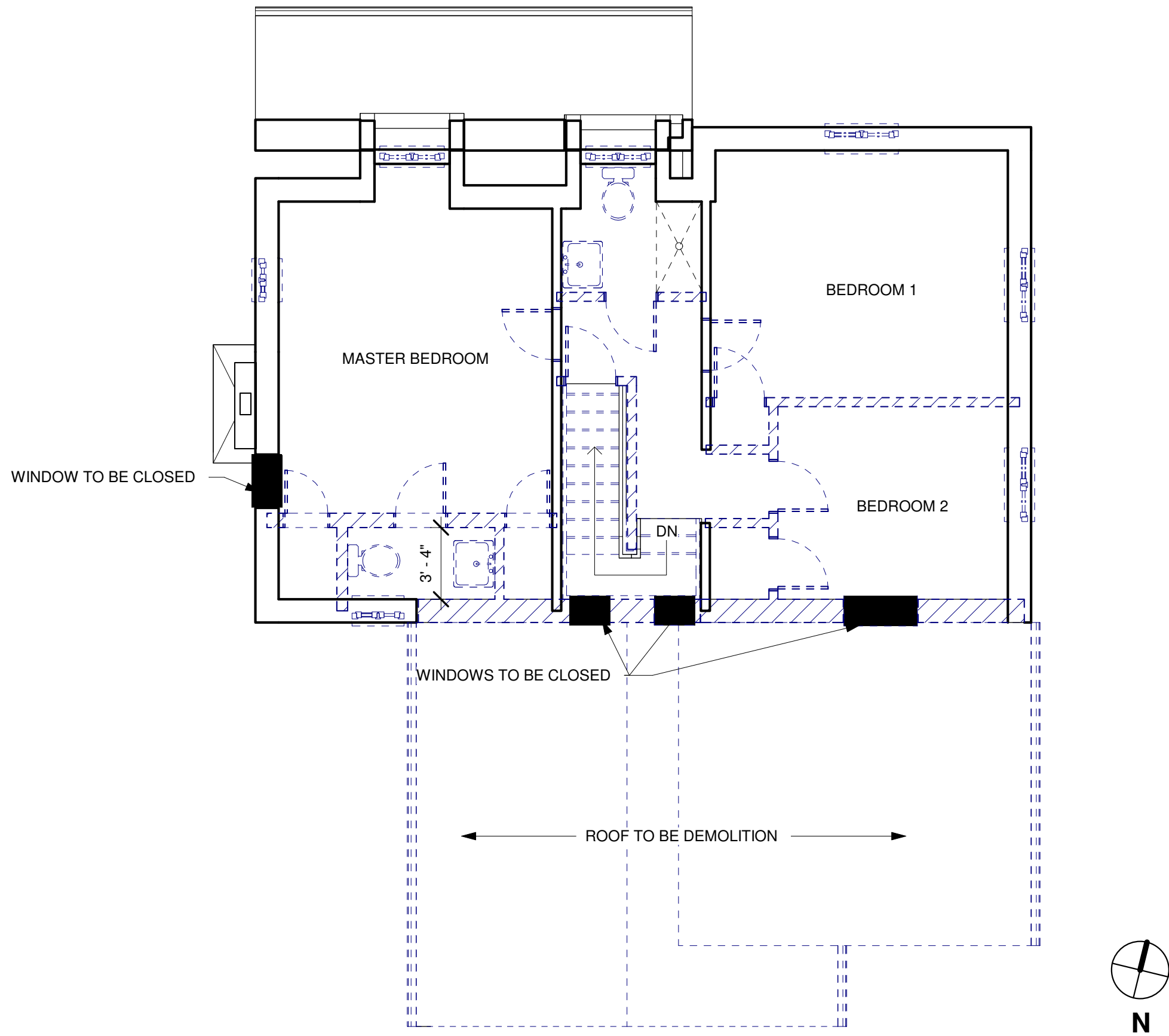
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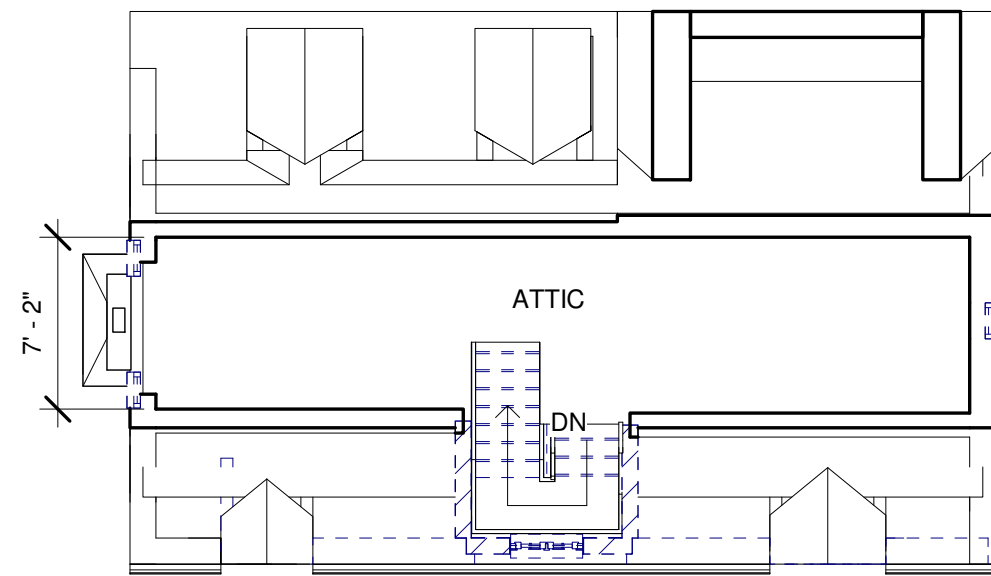


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3/16" = 1'-0"



2 EXISTING ATTIC DEMO PLAN  
1/8" = 1'-0"

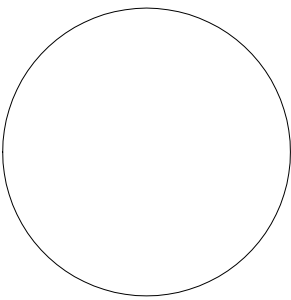
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AD-02

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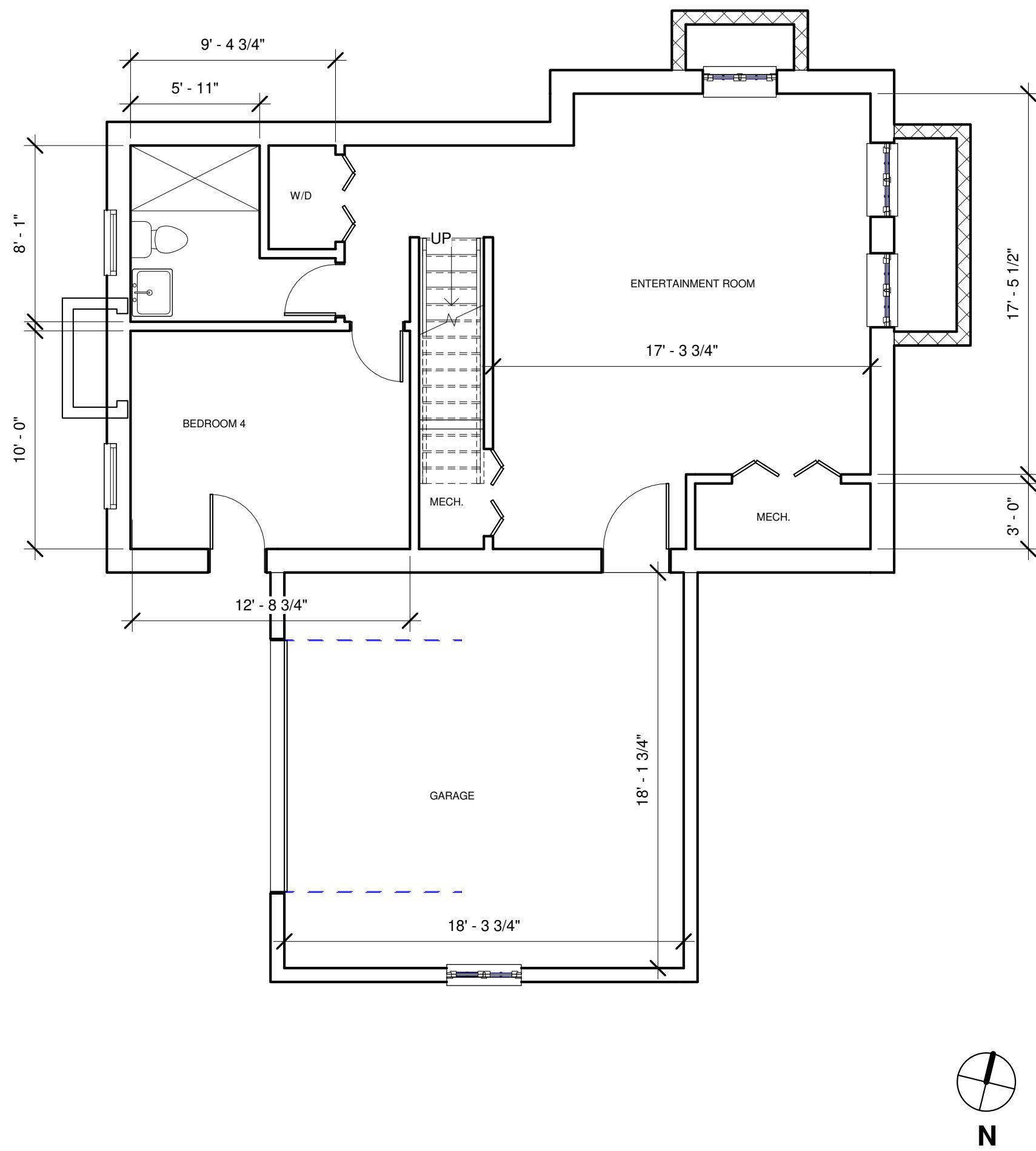


GENERAL NOTES:

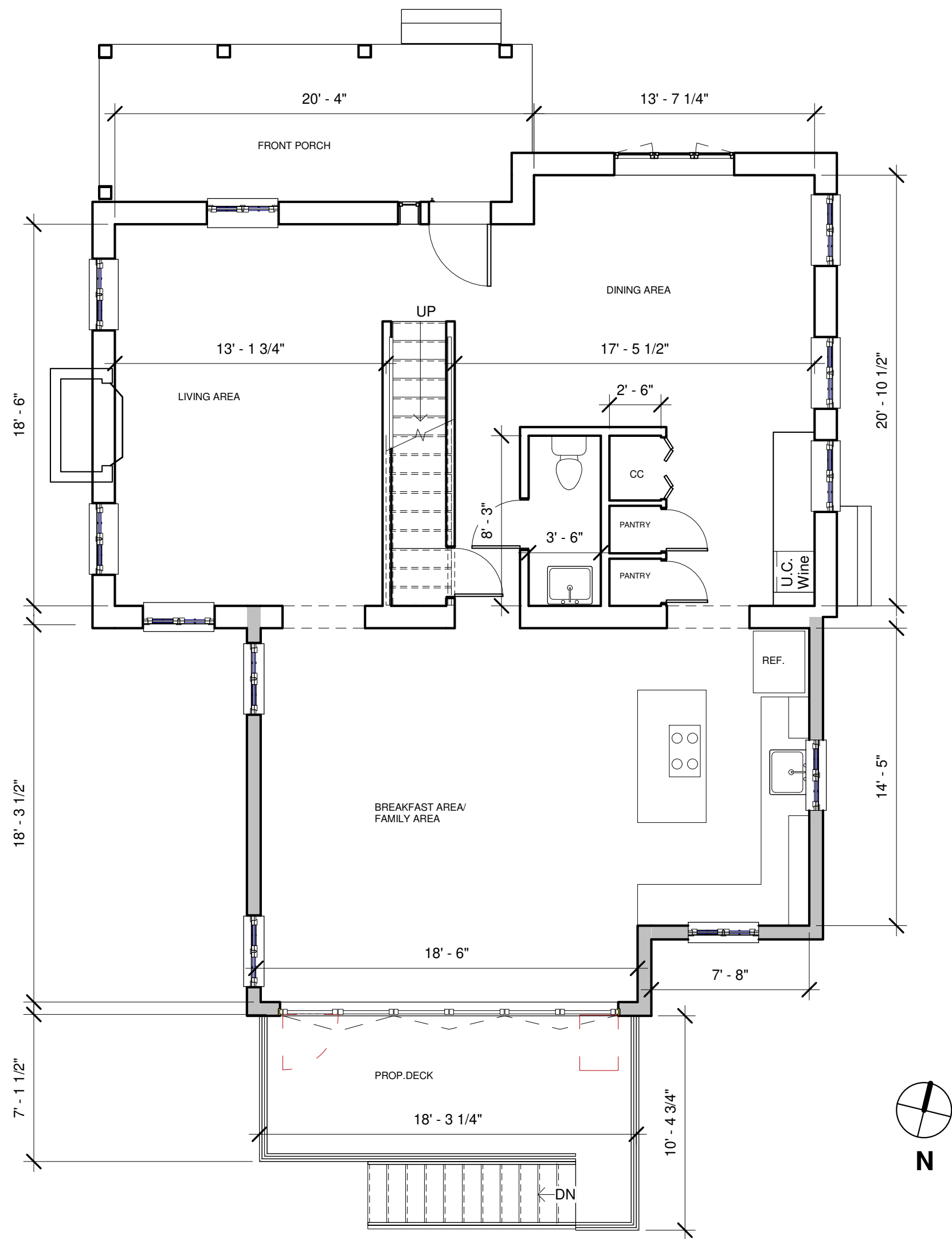
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5. CLEAN DUST, REMOVE FINGER PRINTS FROM SURFACE INCLUDING WINDOWS, BLINDS, LIGHT FIXTURE IN THE ENTIRE AREA
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LEGEND

NEW ADDITION WALL



PROPOSED BASEMENT FLOOR PLAN  
3/16" = 1'-0"



PROPOSED FIRST FLOOR PLAN  
3/16" = 1'-0"

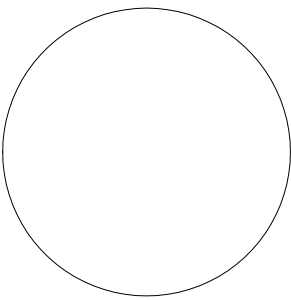
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SHEET TITLE:  
PROPOSED FLOOR  
PLANS

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A-01

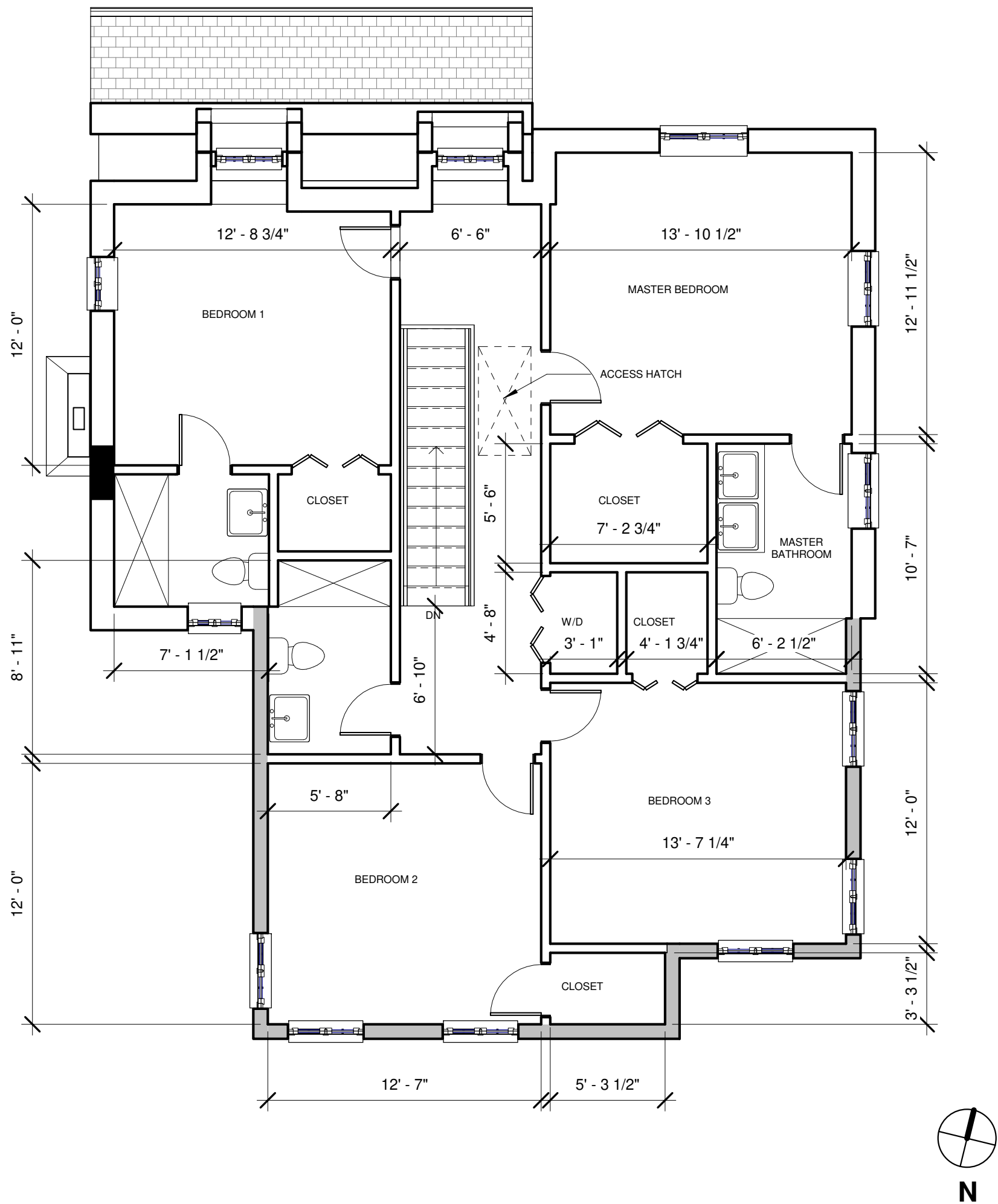
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GENERAL NOTES:

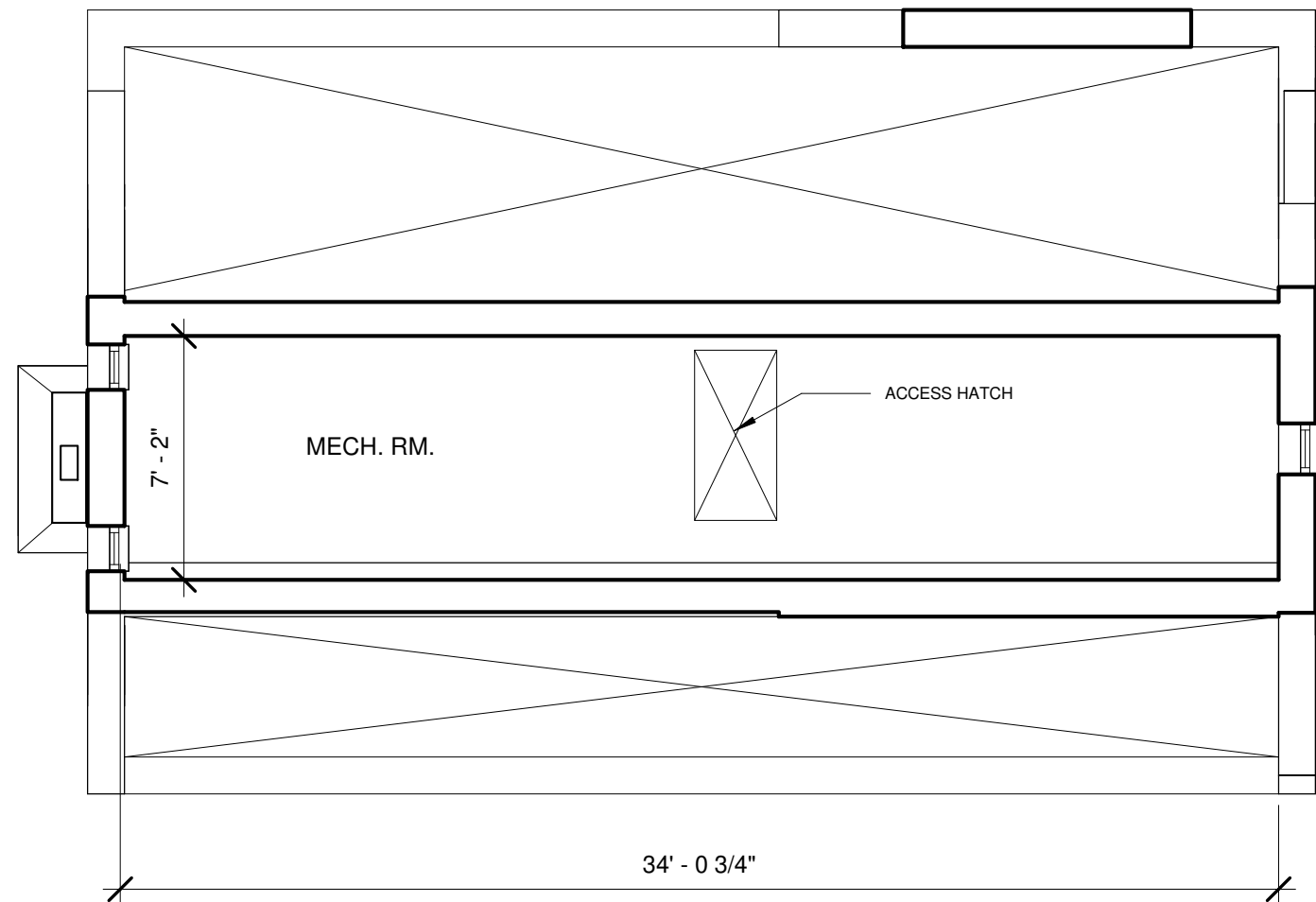
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LEGEND

NEW ADDITION WALL



PROPOSED SECOND FLOOR PLAN  
3/16" = 1'-0"



PROPOSED ATTIC FLOOR PLAN  
3/16" = 1'-0"

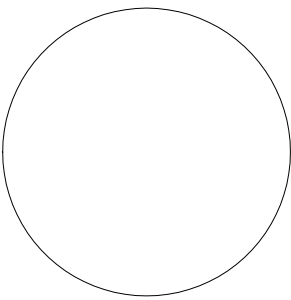
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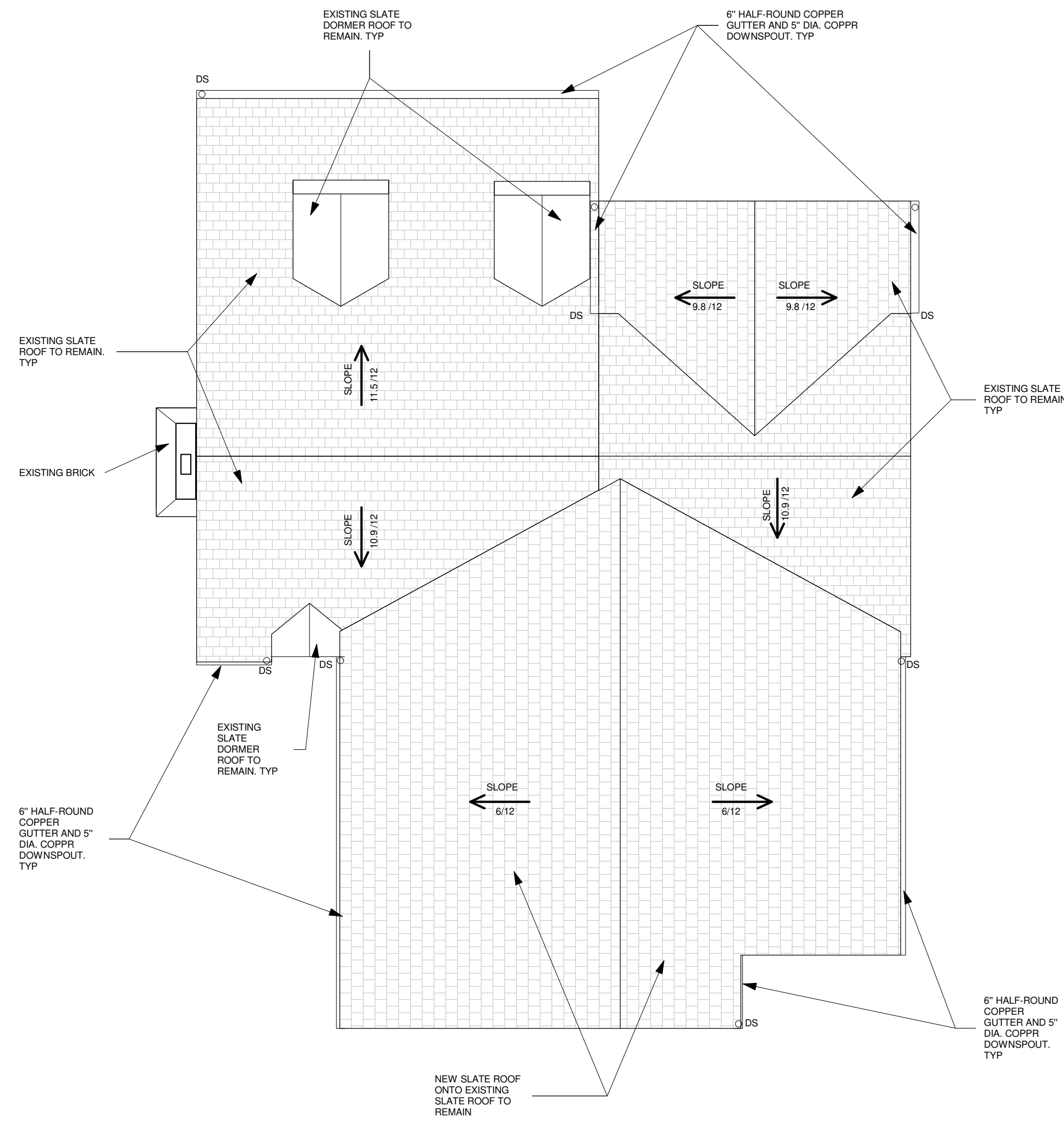
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SHEET TITLE:  
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SHEET NUMBER:  
A-02

DATE:  
11/28/2022



PROPOSED ROOF PLAN  
3/16" = 1'-0"

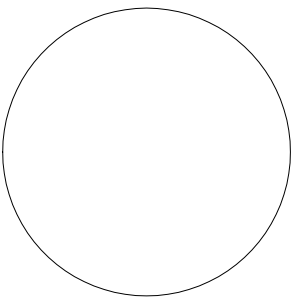
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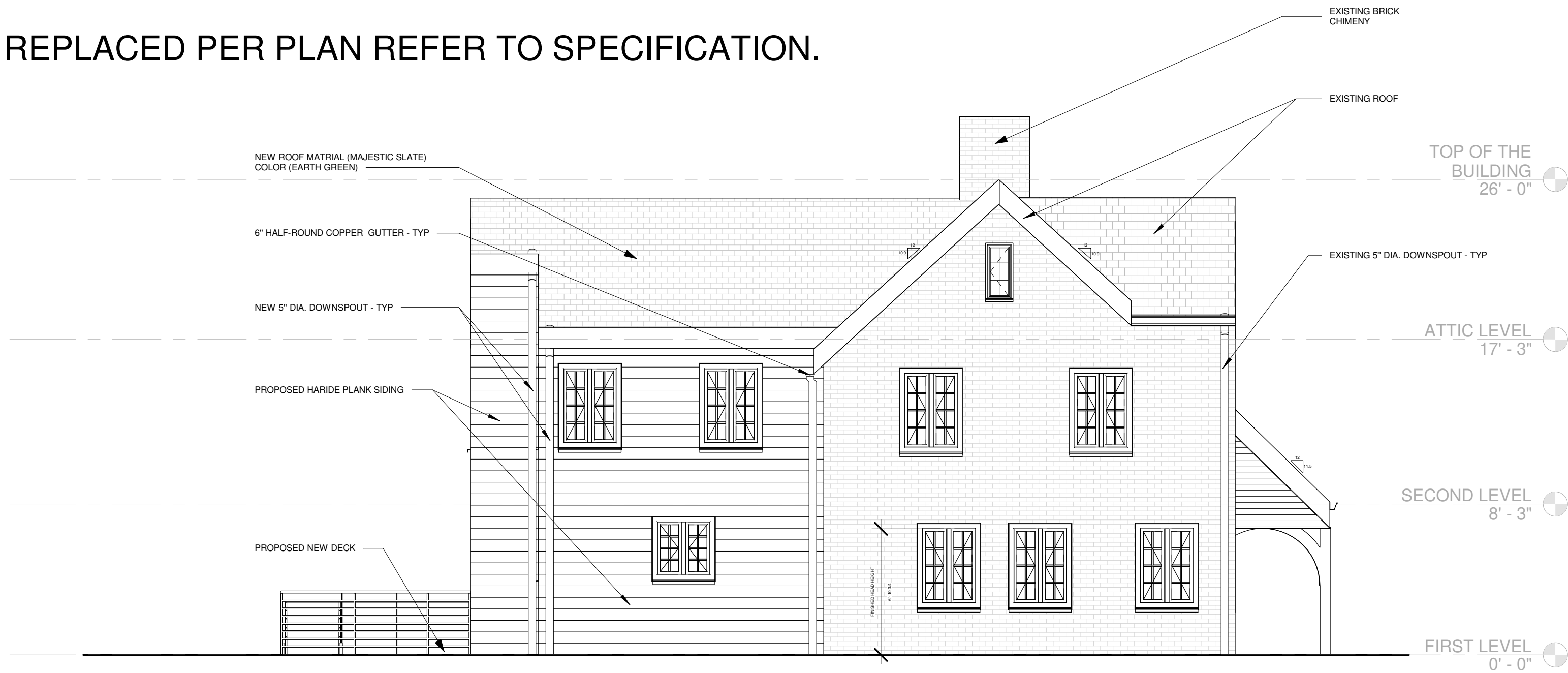
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PROPOSED ROOF  
PLAN

SHEET NUMBER:  
A-03

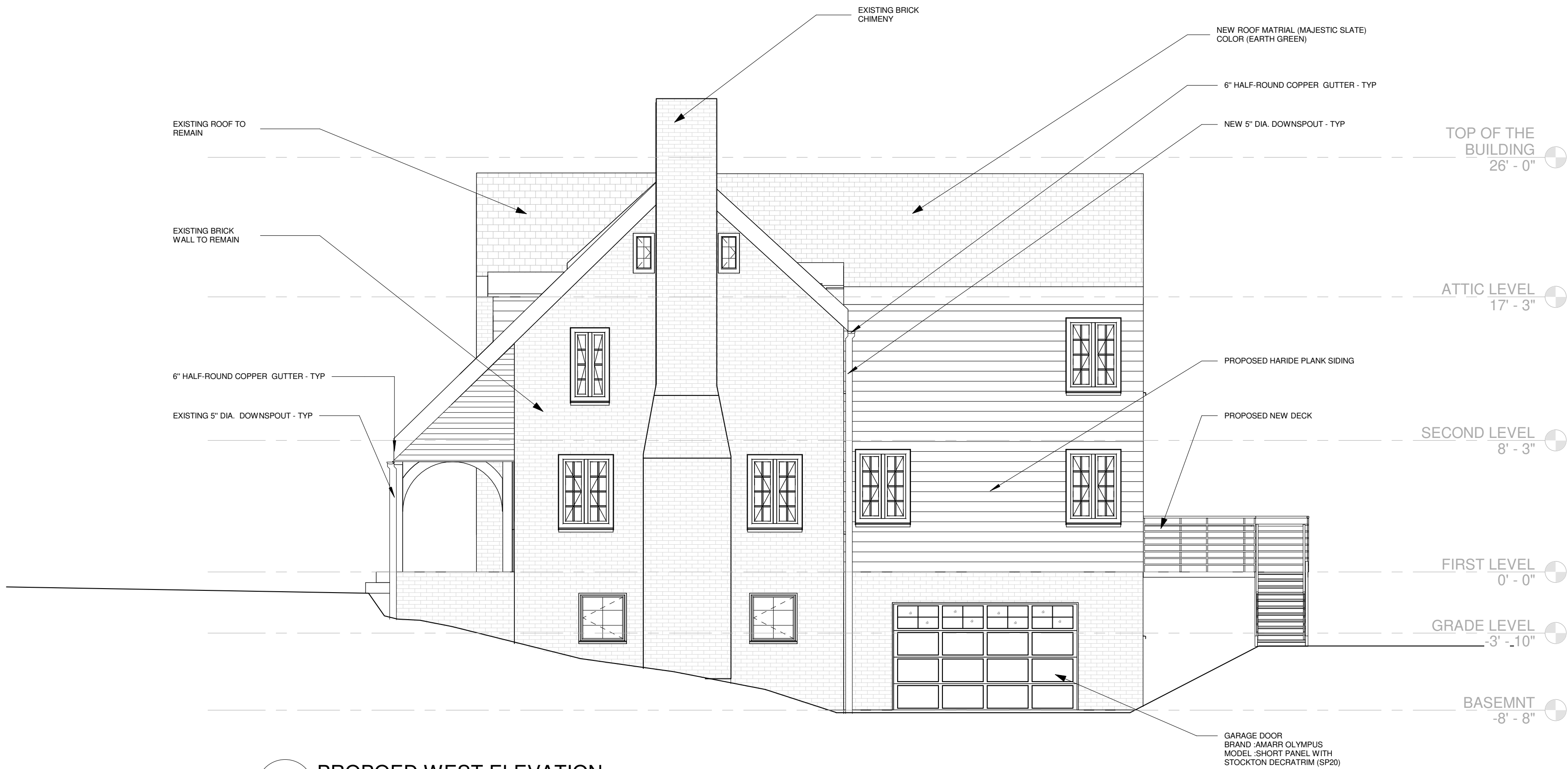
DATE:  
11/28/2022



ELEVATION NOTE:  
ALL DOORS AND WINDOWS TO BE REPLACED PER PLAN REFER TO SPECIFICATION.



PROPOSED EAST ELEVATION  
3/16" = 1'-0"



PROPOSED WEST ELEVATION  
3/16" = 1'-0"

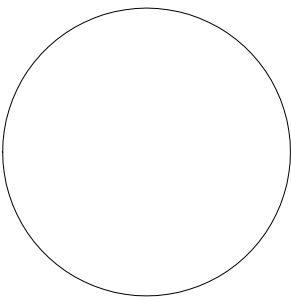
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SHEET TITLE:  
PROPOSED BUILDING  
ELEVATION

SHEET NUMBER:  
A-04

DATE:  
11/28/2022

ELEVATION NOTE:  
ALL DOORS AND WINDOWS TO BE REPLACED PER PLAN REFER TO SPECIFICATION.

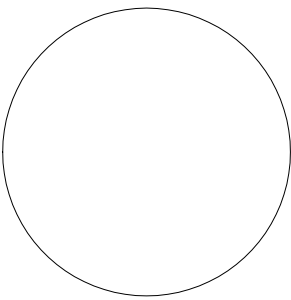
STAMP:



1600 RHODE ISLAND AVE NE  
WASHINGTON DC 20018  
TEL: (202) 309-4514

5602 YORK LN BETHESDA,  
MD 20814

NO	DATE	BY	SUBMISSION INFO
A	11/28/2022		Permit
B			
C			
D			
E			
F			
G			



SHEET TITLE:  
PROPOSED BUILDING  
ELEVATION

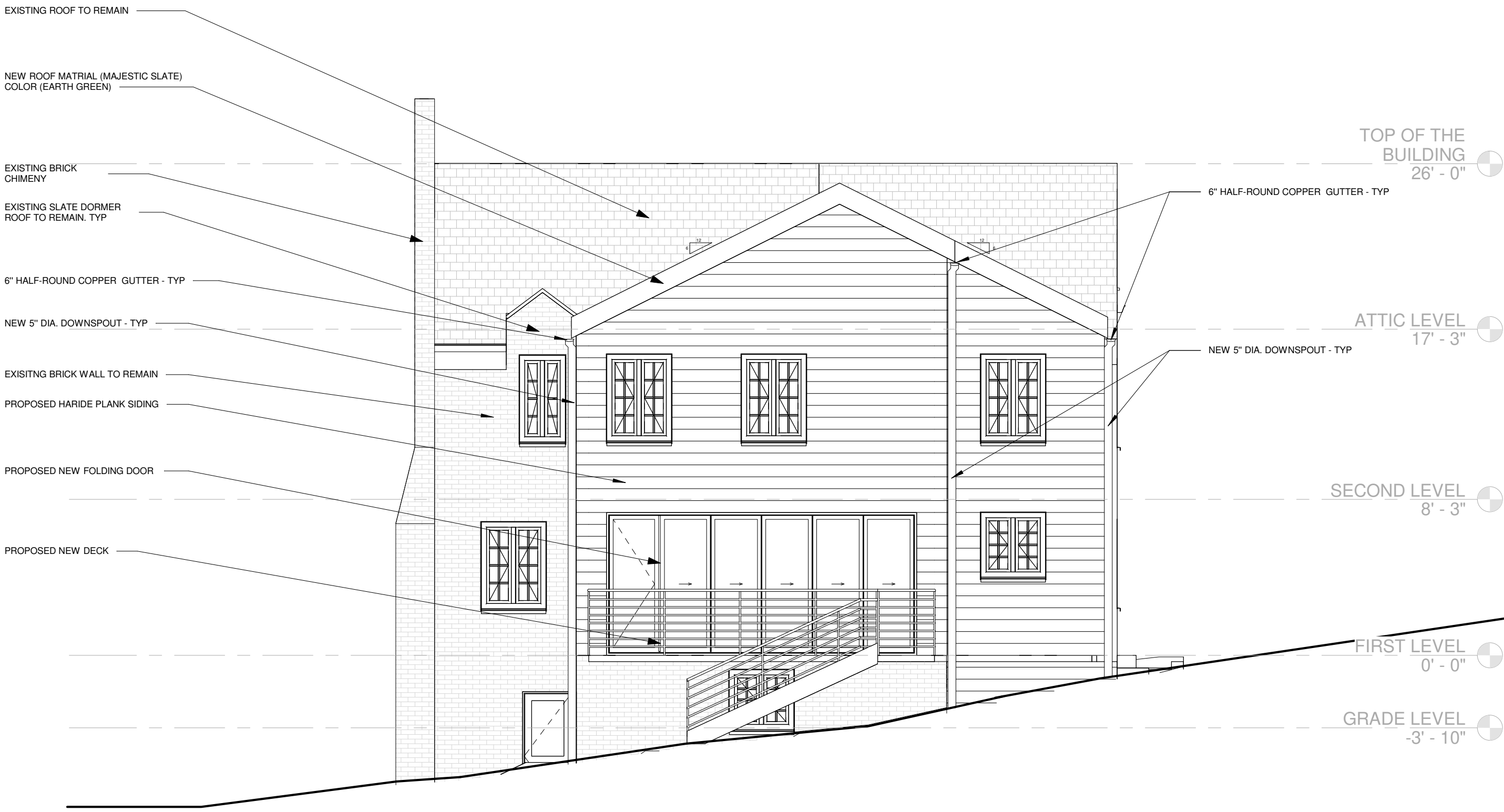
SHEET NUMBER:  
A-05

DATE:  
11/28/2022

NORTH ELEVATION NOTE : ALL ARCHITECTURAL STRUCTURAL ELEMENT TO REMAIN EXCEPT WINDOWS AND DOORS



PROPOSED NORTH ELEVATION  
3/16" = 1'-0"



PROPOSED SOUTH ELEVATION  
3/16" = 1'-0"





East side view



East side view



West side view



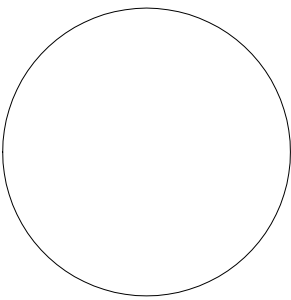
West side view

STAMP:

**DILAN HOMES**  
A DILAN INVESTMENTS COMPANY  
1600 RHODE ISLAND AVE NE  
WASHINGTON DC 20018  
TEL: (202) 309-4514

5602 YORK LN BETHESDA,  
MD 20814

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D			
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G			



SHEET TITLE:  
SITE PHOTOGRAPHS

SHEET NUMBER:  
A-06

DATE:  
11/28/2022





Aerial roof view

STAMP:

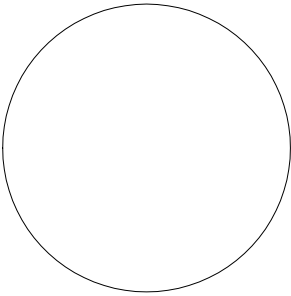


DILAN HOMES  
A DILAN INVESTMENTS COMPANY

1600 RHODE ISLAND AVE NE  
WASHINGTON DC 20018  
TEL: (202) 309-4514

5602 YORK LN BETHESDA,  
MD 20814

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A	FFB8 B8EGG		Permit
B			
C			
D			
E			
F			
G			



SHEET TITLE:  
AREA MAP

SHEET NUMBER:  
A-07

DATE:  
11/28/2022

Vicinity map view







Front view from the street



Front north side view



West side view



Rear south side view



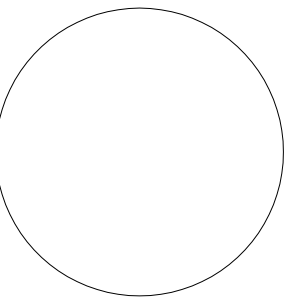
Rear south side view

STAMP:

  
**DILAN HOMES**  
A DILAN INVESTMENTS COMPANY  
1600 RHODE ISLAND AVE NE  
WASHINGTON DC 20018  
TEL: (202) 309-4514

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MD 20814**

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SHEET TITLE:  
**SITE PHOTOGRAPHS**

SHEET NUMBER:  
**A-05**

DATE:  
**11/28/2022**



# Amarr® Olympus

## Energy Efficient Steel Traditional Garage Doors



**When it comes to ultimate protection,** Amarr Olympus doors stand tall. With triple-layer construction and a superior insulation R-value of 19.40<sup>†</sup>, these durable low-maintenance doors give you the ultimate in quiet operation and energy efficiency.



Long Panel with full long panel windows (LP)



Long Panel with Moonlite DecraTrim (LP24)



Short Panel with Heartland DecraGlass (SP70)



Short Panel with Stockton DecraTrim (SP20)

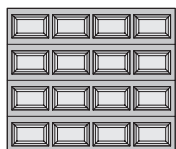


Long Panel with Prairie DecraTrim (LP21)

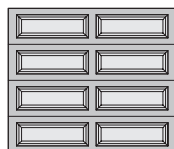


### PANEL DESIGNS

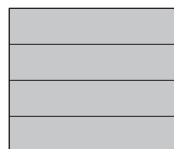
SP • SHORT PANEL



LP • LONG PANEL



FP • FLUSH PANEL\*



\*True White only.

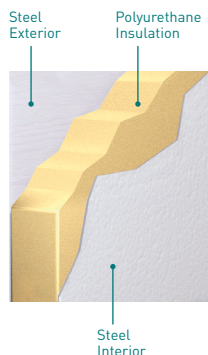
### ENERGY EFFICIENCY

**R-VALUE**  
**19.40<sup>†</sup>**

<sup>†</sup>OL3200 True White Flush and Short Panel only.



## Construction



## STEEL OL3138/OL3200

**Triple-Layer: Steel + Insulation + Steel**

For the toughest most energy-efficient steel door, Amarr Olympus triple-layer doors include the ultimate in thermal properties, plus a layer of steel for a finished interior look and added durability.

- Heavy-duty Exterior and Interior Steel
- Durable, Reliable, Low Maintenance
- Environmentally Safe Polyurethane Insulation
- Superior Energy Efficiency
- Extra Quiet Operation

## Specifications

	AMARR OLYMPUS OL3138	AMARR OLYMPUS OL3200
<b>PANEL DESIGNS</b>		
Short Panel	TW/Color Zone	•
Long Panel		•
Flush Panel	TW/Color Zone	TW/Color Zone
<b>INSULATION</b>	Polyurethane	Polyurethane
<b>R-VALUE</b>	14.46	19.40 <sup>1</sup> - 13.35 <sup>2</sup>
<b>DOOR THICKNESS</b>	1-3/8" [3.5cm]	2" [5.1cm]
<b>STEEL THICKNESS</b>	27/27 ga	27/27 ga
<b>WOODGRAIN EXTERIOR TEXTURE</b>	•	•
<b>END STILES</b> Painted	•	•
<b>BOTTOM WEATHER SEAL</b>	•	•
<b>GLASS OPTIONS</b>	All	All
<b>INSULATED GLASS OPTION<sup>†</sup></b>	•	•
<b>DOOR WIDTHS</b>	8', 9', 16'	All Standard Sizes
<b>DOOR HEIGHTS</b>	All Standard Sizes	All Standard Sizes
<b>WIND LOAD<sup>3</sup> AVAILABLE</b>	•	•
<b>PAINT FINISH WARRANTY<sup>4</sup></b>	Lifetime	Lifetime
<b>WORKMANSHIP/HARDWARE WARRANTY<sup>4</sup></b>	5 Years	Lifetime

<sup>1</sup> For True White Short Panel and Flush Panel only. Based upon independent laboratory test results.

<sup>2</sup> For all panels and colors except True White Short Panel. Calculated door section R-value is in accordance with DASMA TDS-163.

<sup>3</sup> It is your responsibility to make sure your garage door meets local building codes.  
<sup>†</sup>Price upcharge applies.

<sup>4</sup> For complete warranty details, visit [amarr.com](http://amarr.com) or contact your local Amarr dealer.

## Colors

Actual paint colors may vary from samples shown.



**Amarr Color Zone<sup>†</sup>**  
Over 800 SnapDry™ paint colors. Approved color list is at [amarr.com/amarr\\_color\\_zone](http://amarr.com/amarr_color_zone). Your local Sherwin-Williams store can provide SnapDry™ paint chips of selected color.



Amarr doors are pre-painted; homeowners can use exterior latex paint for custom colors. Visit [amarr.com](http://amarr.com) for painting instructions. Painting your garage door voids the warranty.

<sup>†</sup>Price upcharge applies.

**Amarr Company**  
165 Carriage Court  
Winston-Salem, NC 27105  
800.503.D00R  
[www.amarr.com](http://www.amarr.com)

Door specifications and technical data subject to change without notice.

Sectional door products from Amarr Company may be the subject of one or more U.S. and/or foreign, issued and/or pending, design and/or utility patents.

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Form #6400721/PDF



YOUR LOCAL AMARR DEALER:

## Glass Options

Insulated glass<sup>†</sup> available in Clear, Frost and Dark Tint.



## DecraTrim Window Inserts

Available with Clear, Obscure, Frost or Dark Tint glass.  
<sup>†</sup>Price upcharge applies.

### SHORT PANEL

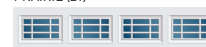
NO INSERT



STOCKTON (20)



PRAIRIE (21)



CATHEDRAL (22)



CASCADE (23)



WATERFORD (25)



WAGON WHEEL (26)



SUNRAY (27)



FULL SUNRAY (28) Available for 16', 17' and 18' only.



FIVE PIECE SUNRAY (29) for 10' door (True White only)

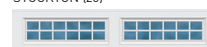


### LONG PANEL

NO INSERT



STOCKTON (20)



PRAIRIE (21)



CATHEDRAL (22)



CASCADE (23)



MOONLITE (24)



WATERFORD (25)



WAGON WHEEL (26)



SUNRAY (27)



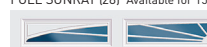
THAMES (30)



ARCHED THAMES (31)



FULL SUNRAY (28) Available for 15'6", 15'8", 16', 17' and 18' only.



## DecraGlass™ Windows

Tempered obscure glass with baked-on ceramic designs.

### SHORT PANEL

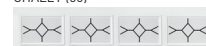
VICTORIAN (54)



RIVIERA (55)\*



CHALET (56)



AMERICANA (57)



HEARTLAND (70)



MISSION (71)



PRAIRIE (72)†



JARDIN (75)



TRELIS (76)



### LONG PANEL

VICTORIAN (54)



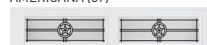
RIVIERA (55)\*



CHALET (56)



AMERICANA (57)



HEARTLAND (70)



MISSION (71)



PRAIRIE (72)†



JARDIN (75)



TRELIS (76)



\* Clear glass with printed frost pattern.  
† Obscure glass with v-groove.

## Mosaic Window Options



**The choice is yours.**

Add visual interest to your contemporary, mid-century modern or transitional home. With Mosaic Window Options you decide the number and location of windows to create the door design you want. Visit [amarr.com/mosaic](http://amarr.com/mosaic) for design inspirations.

## Optional Lock



AMARR LOCK





# Sustainability meets **DESIGN & DURABILITY**

*Featuring James Hardie® siding and trim, the VISION House Orlando '11 incorporates the essentials of sustainable living through design and construction. Much of the focus was aimed at energy efficiency, water conservation, sustainable materials, and hurricane disaster resistance.*





## MANUFACTURING



- We recycle water used in manufacturing up to four times during the process.
- Our Environmental Management System is ISO 14001 certified in our Illinois, Nevada, and Virginia manufacturing facilities.
- Our Zero to Landfill Project demonstrates our vision for making our products as efficiently as possible and is currently focused on reducing our landfilled waste by half.

## TRANSPORTATION



- We have high quality standards for raw materials, and at least 75% of raw materials are locally sourced.
- Eleven manufacturing facilities support the regional economy and reduce the environmental impact caused by transportation of materials.





## PRODUCT



- James Hardie® siding products are made from natural and sustainable raw materials that are also low in toxicity – Portland cement, cellulose pulp, sand, and water.
- Artisan® siding products contain 8% post-industrial or pre-consumer recycled content.
- James Hardie siding is noncombustible in accordance with ASTM E 136 and can be installed to achieve MIAMI-DADE large and small missile impact rating.
- Durable fiber cement materials not only require fewer resources for replacement, but help reduce maintenance and repair cost.
- Using factory-finished James Hardie siding and trim products with ColorPlus® Technology finishes reduce jobsite liquid waste and exposure to volatile organic compounds (VOCs). It also eliminates the need to store large amounts of paint on site. Our factory-finished products go through multiple quality control checkpoints, which minimizes the need for rework.



*“The single most important factor in green architecture is durability. If you want something to be green it has to last a long time. It has to handle water, heat and UV radiation. Fiber-cement handles all three exceptionally well.”*

*Joseph Lstiburek  
BASC, MENG., PhD, PENG*



## LEED CERTIFICATION

James Hardie products can contribute points towards a LEED project certification as well as a certification to the ICC 700 National Green Building Standard. James Hardie® siding, trim, soffit, fascia and Artisan siding and trim are listed as certified products in Home Innovation Research Labs NGBS Green Certified Product Program. The Home Innovation Labs NGBS Green certification allows accredited verifiers to award points towards the whole project certification without additional documentation for the attributes of the practices specified. Additionally, a project-specific cutsheet in support of recycled and regional content claims is available upon request. Please contact [info@jameshardie.com](mailto:info@jameshardie.com) for more information.



[http://www.homeinnovation.com/services/certification/green\\_certified\\_products/green\\_certified\\_product\\_detail?prodid=303](http://www.homeinnovation.com/services/certification/green_certified_products/green_certified_product_detail?prodid=303)

National Green Guidelines	Project seeking USGBC LEED® certification	ICC 700 National Green Building Standard Voluntary Model Green Home Building Guidelines
James Hardie® Siding Products	MR5 (MR4 for Homes) Recycled Content; MR5 (MR4 for Homes) Regional Materials	601.7. Building materials/assemblies do not require additional site applied material for finishing. (ColorPlus® products only) 602.1.6. In areas of termite infestation probability, termite-resistant materials are used.
Artisan® Siding Products	MR5 (MR4 for Homes) Recycled Content; MR5 (MR4 for Homes) Regional Materials	601.7. Building materials/assemblies do not require additional site applied material for finishing. (ColorPlus® products only) 602.1.6. In areas of termite infestation probability, termite-resistant materials are used.



At James Hardie, we pride ourselves on providing building products that help you craft more sustainable homes and buildings. While all green programs share the goal of environmental awareness, they do not always measure success in the same way. Our commitment to sustainable manufacturing practices extends to the development of products that last longer, requires less maintenance, and contribute to energy efficiency.

To learn more, please contact James Hardie Technical Services at  
**1-866-4HARDIE (1-866-442-7343) or [info@jameshardie.com](mailto:info@jameshardie.com).**





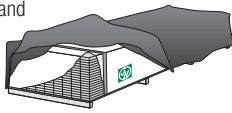
# HardiePlank® Lap Siding

EFFECTIVE DECEMBER 2019

**IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING [HARDIEZONE.COM](http://HARDIEZONE.COM) OR CALL 1-866-942-7343 (866-9-HARDIE)**

## STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.



## CUTTING INSTRUCTIONS

### OUTDOORS

- Position cutting station so that airflow blows dust away from the user and others near the cutting area.
- Cut using one of the following methods:
  - Best:** Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system. Shears (manual, pneumatic or electric) may also be used, not recommended for products thicker than 7/16 in.
  - Better:** Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
  - Good:** Circular saw equipped with a HardieBlade saw blade.

### INDOORS

DO NOT grind or cut with a power saw indoors. Cut using shears (manual, pneumatic or electric) or the score and snap method, not recommended for products thicker than 7/16 in.

- DO NOT dry sweep dust; use wet dust suppression or vacuum to collect dust.
- For maximum dust reduction, James Hardie recommends using the "Best" cutting practices. Always follow the equipment manufacturer's instructions for proper operation.
- For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade® saw blades.
- Go to [jameshardiepros.com](http://jameshardiepros.com) for additional cutting and dust control recommendations.

**IMPORTANT:** The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system per manufacturer's instructions results in exposures below the OSHA Permissible Exposure Limit (PEL) for respirable crystalline silica, without the need for additional respiratory protection.

If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice will assure your compliance with OSHA rules or other applicable laws and safety requirements.

## GENERAL REQUIREMENTS:

- HardiePlank® lap siding can be installed over braced wood or steel studs, 20 gauge (33 mils) minimum to 16 gauge (54 mils) maximum, spaced a maximum of 24 in. o.c. or directly to minimum 7/16 in thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing siding.
- Information on installing James Hardie products over non-nailable substrates (ex: gypsum, foam, etc.) can be located in JH Tech Bulletin 19 at [www.jamehardie.com](http://www.jamehardie.com)
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap<sup>1</sup>, which complies with building code requirements.
- When installing James Hardie products all clearance details in figs. 3-14 must be followed.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6 in. in the first 10 ft..
- Do not use HardiePlank lap siding in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardiePlank lap siding may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at [www.jameshardie.com](http://www.jameshardie.com).
- James Hardie Building Products provides installation/wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.

## INSTALLATION: JOINT TREATMENT

One or more of the following joint treatment options are required by code (as referenced 2009 IRC R703.10.2)

A. Joint Flashing (James Hardie recommended)

B. Caulking\* (Caulking is not recommended for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.)

C. "H" jointer cover

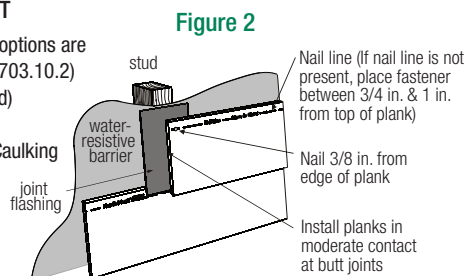
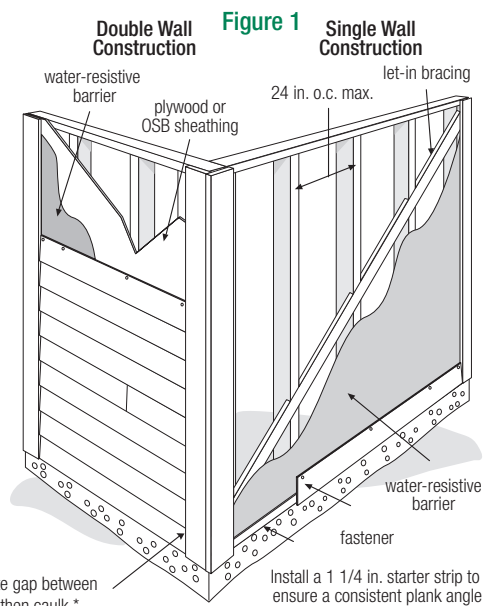


Figure 2



Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus. \*Refer to Caulking section in these instructions.

<sup>1</sup>For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or [www.hardiewrap.com](http://www.hardiewrap.com)

SELECT CEDARMILL® | SMOOTH | BEADED CEDARMILL® | BEADED SMOOTH | CUSTOM COLONIAL SMOOTH® | CUSTOM COLONIAL™ ROUGHSAWN

Visit [jameshardiepros.com](http://jameshardiepros.com) for the most recent version.

HS11119 P1/4 12/19



## CLEARANCE AND FLASHING REQUIREMENTS

Figure 3  
Roof to Wall

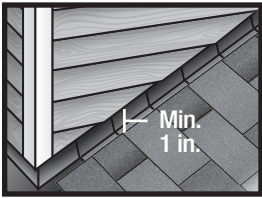


Figure 4  
Horizontal Flashing

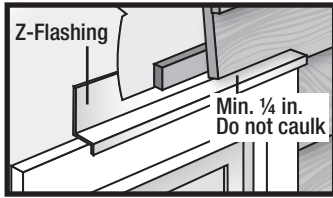


Figure 5  
Kickout Flashing

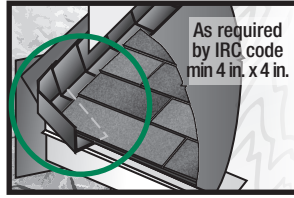


Figure 6  
Slabs, Path, Steps to Siding

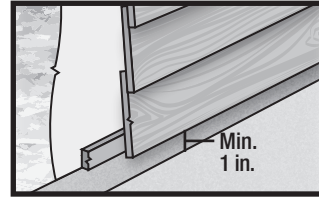


Figure 7  
Deck to Wall

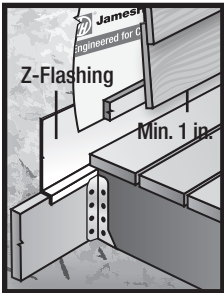


Figure 8  
Ground to Siding

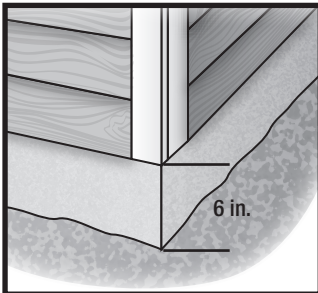


Figure 9  
Gutter to Siding

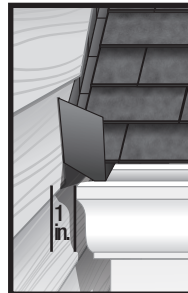


Figure 10  
Sheltered Areas

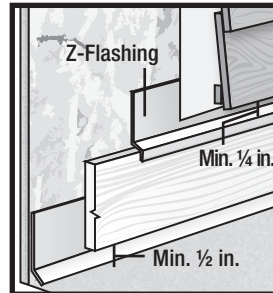


Figure 11  
Mortar/Masonry

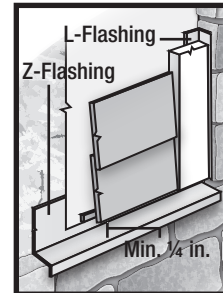


Figure 12  
Drip Edge

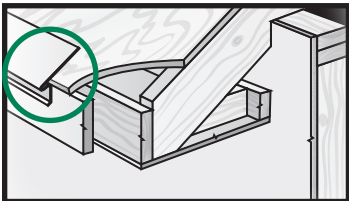


Figure 13  
Block Penetration  
(Recommended in HZ10)

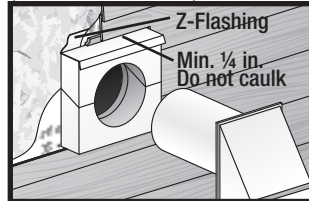
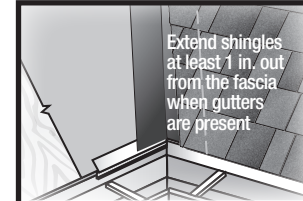


Figure 14  
Valley/Shingle Extension



## FASTENER REQUIREMENTS\*

Refer to the applicable ESR report online to determine which fastener meets your wind load design criteria.

Blind Nailing is the preferred method of installation for HardiePlank® lap siding products. Face nailing should only be used where required by code for high wind areas and must not be used in conjunction with Blind nailing (Please see JH Tech bulletin 17 for exemption when doing a repair).

### BLIND NAILING

#### Nails - Wood Framing

- Siding nail (0.09 in. shank x 0.221 in. HD x 2 in. long)
- 11ga. roofing nail (0.121 in. shank x 0.371 in. HD x 1.25 in. long)

#### Screws - Steel Framing

- Ribbed Wafer-head or equivalent (No. 8 x 1 1/4 in. long x 0.375 in. HD) Screws must penetrate 3 threads into metal framing.

#### Nails - Steel Framing

- ET & F Panelfast® nails or equivalent (0.10 in. shank x 0.313 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

#### OSB minimum 7/16 in.

- Siding nail (0.09 in. shank x 0.215 in. HD x 1-1/2 in. long)
- Ribbed Wafer-head or equivalent (No. 8 x 1 5/8 in. long x 0.375 in. HD).

### FACE NAILING

#### Nails - Wood Framing

- 6d (0.113 in. shank x 0.267 in. HD x 2 in. long)
- Siding nail (0.09" shank x 0.221" HD x 2" long)

#### Screws - Steel Framing

- Ribbed Bugle-head or equivalent (No. 8-18 x 1-5/8 in. long x 0.323 in. HD) Screws must penetrate 3 threads into metal framing.

#### Nails - Steel Framing

- ET & F pin or equivalent (0.10 in. shank x 0.25 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

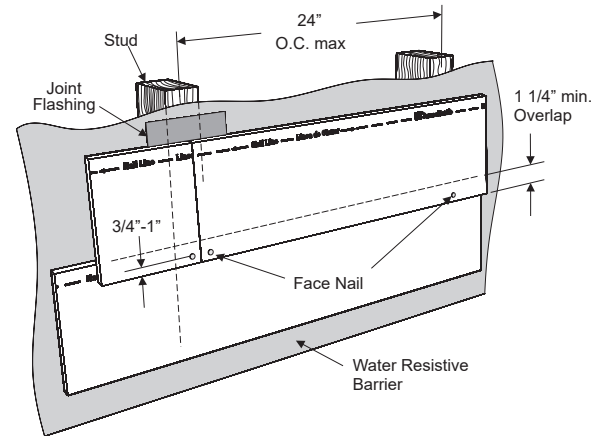
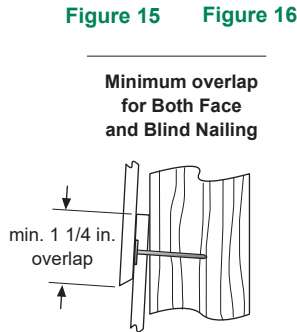
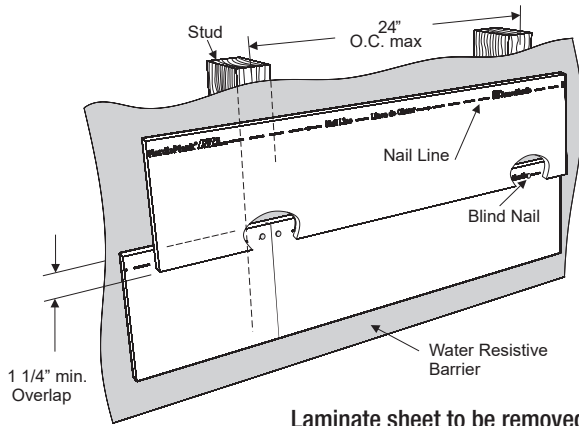
#### OSB minimum 7/16 in.

- Siding nail (0.09 in. shank x 0.221 in. HD x 1-1/2 in. long)

\*Also see General Fastening Requirements; and when considering alternative fastening options refer to James Hardie's Technical Bulletin USTB 5 - Fastening Tips for HardiePlank Lap Siding.



## FASTENER REQUIREMENTS continued



Laminate sheet to be removed immediately after installation of each course for ColorPlus® products.

Pin-backed corners may be done for aesthetic purposes only. Finish nails are recommended for pin-backs. Headed siding nails are allowed. Place pin-backs no closer than 1 in. from plank ends and 3/4 in. from plank edge into min. 3/8 in. wood structural panel. Pin-backs are not a substitute for blind or face nailing.

## GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space).
- NOTE: Whenever a structural member is present, HardiePlank should be fastened with even spacing to the structural member. The tables allowing direct to OSB or plywood should only be used when traditional framing is not available.

## CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

## CAULKING

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions.

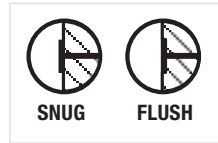
**Note: some caulking manufacturers do not allow "tooling".**









## PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products. Factory-primed James Hardie products must be painted within 180 days of installation. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

## PNEUMATIC FASTENING

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).



DO NOT		DO NOT		DO NOT USE	
		 			
UNDER DRIVE		OVER DRIVE SLANT		ALUMINUM FASTENERS	
IF, THEN		IF, THEN ADDITIONAL NAIL			
WOOD FRAME	STEEL FRAME	FACE NAIL			
					
HAMMER FLUSH	REMOVE & REPLACE	COUNTERSINK & FILL			
					
		STAPLES			



## COLORPLUS® TECHNOLOGY CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie® ColorPlus® products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
  - Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with new HardiePlank® lap siding with ColorPlus® Technology.
  - Laminate sheet must be removed immediately after installation of each course.
  - Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
  - Treat all other non-factory cut edges using the ColorPlus Technology edge coat, available from your ColorPlus product dealer.
- Note:** James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

## PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section

## COVERAGE CHART/ESTIMATING GUIDE

Number of 12 ft. planks, does not include waste

COVERAGE AREA LESS OPENINGS (1 SQ = 100 sq.ft.)	HARDIEPLANK® LAP SIDING WIDTH									
	5 1/4 4	6 1/4 5	7 1/4 6	7 1/2 6 1/4	8 6 3/4	8 1/4 7	9 1/4 8	9 1/2 8 1/4	12 10 3/4	
1	25	20	17	16	15	14	13	13	9	
2	50	40	33	32	30	29	25	25	19	
3	75	60	50	48	44	43	38	38	28	
4	100	80	67	64	59	57	50	50	37	
5	125	100	83	80	74	71	63	63	47	
6	150	120	100	96	89	86	75	75	56	
7	175	140	117	112	104	100	88	88	65	
8	200	160	133	128	119	114	100	100	74	
9	225	180	150	144	133	129	113	113	84	
10	250	200	167	160	148	143	125	125	93	
11	275	220	183	176	163	157	138	138	102	
12	300	240	200	192	178	171	150	150	112	
13	325	260	217	208	193	186	163	163	121	
14	350	280	233	224	207	200	175	175	130	
15	375	300	250	240	222	214	188	188	140	
16	400	320	267	256	237	229	200	200	149	
17	425	340	283	272	252	243	213	213	158	
18	450	360	300	288	267	257	225	225	167	
19	475	380	317	304	281	271	238	238	177	
20	500	400	333	320	296	286	250	250	186	

This coverage chart is meant as a guide. Actual usage is subject to variables such as building design. James Hardie does not assume responsibility for over or under ordering of product.

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### SILICA WARNING

**DANGER:** May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must (1) comply with the OSHA standard for silica dust and/or other applicable law, (2) follow James Hardie cutting instructions to reduce or limit the release of dust; (3) warn others in the area to avoid breathing the dust; (4) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment; and (5) if no other dust controls are available, wear a dust mask or respirator that meets NIOSH requirements (e.g. N-95 dust mask). During clean-up, use a well maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods - never dry sweep.

**WARNING:** This product can expose you to chemicals including respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

**RECOGNITION:** In accordance with ICC-ES Evaluation Report ESR-2290, HardiePlank® lap siding is recognized as a suitable alternate to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, and the 2006, 2009, 2012 & 2015 International Building Code. HardiePlank lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida Product Approval FL#13192, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

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## SAFETY DATA SHEET

Section 1. Identification		
Product Identifier:	Exterior Fiber-Cement (Medium Density) – Includes all Generation 6 HZ5 and HZ10 products with the following product names: HardiePlank® lap siding, HardiePanel® vertical siding, HardieSoffit® panel, HardieSoffit®, Beaded Porch Panel, HardieShingle® siding, HardieShingle® notched panels, HardieShingle® individual shingles, Hardie® Reveal™ Panel, 7/16" HardieTrim® boards	
Manufacturer Name, Address and Phone Number:	James Hardie Building Products 231 S. LaSalle Street, Suite 2000 Chicago, IL 60604 1-800-942-7343 (1-800-9HARDIE)	
Emergency Phone Number:	1-800-942-7343 (1-800-9HARDIE)	
Recommended Use:	Exterior Fiber-Cement (Medium Density) is used as an external wall cladding	
Restrictions on Use:	None known	
Section 2. Hazards Identification		
GHS Classification:	Carcinogenity, Category 1A Target Organ Systemic Toxicity Repeated Exposure, Category 1	
GHS Label Element(s): Symbol		
Signal Word	DANGER	
Hazard Statement(s)	May cause cancer if dust from product is inhaled  Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product	
Precautionary Statement(s)	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust from product. Wash hands and face thoroughly after handling. Use personal protective equipment as required. If exposed or concerned: Get medical advice. If shortness of breath or other health concerns develop after exposure to dust from the product, seek medical attention. Dispose of product in accordance with local, state and national regulations. If there are no applicable regulations, dispose of in a secure landfill, or in a way that will not expose others to dust.	
Section 3. Composition / Information on Ingredients		
CAS#	Chemical Ingredient	%

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14808-60-7	Crystalline Silica (Quartz)	15-45%
65997-15-1	Calcium Silicate (Hydrate)	35-65%
471-34-1	Calcium Carbonate	<30%
N/A	Calcium Aluminum Silicate (Hydrate)	<20%
9004-34-6	Cellulose	<15%
1333-86-4	Carbon Black	<1%
<b>Section 4. First Aid Measures</b>		
Inhalation	Acute effects – Dust may cause irritation of the nose, throat and airways, resulting in coughing and sneezing. Certain susceptible individuals may experience wheezing (spasms of the bronchial airways) upon inhaling dust during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust.	
	Chronic effects – Repeated or prolonged over exposures to crystalline silica can cause silicosis (scarring of the lung) and increases the risk of bronchitis, tuberculosis, lung cancer, renal disease, and scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels, and internal organs.) Some studies suggest that cigarette smoking increases the risk of silicosis, bronchitis and lung cancer in persons also exposed to crystalline silica.	
	Acute silicosis – A sub-chronic disease associated with acute, massive silica exposure, is a rapidly progressive, incurable lung disease that is typically fatal. Symptoms include, but are not limited to, shortness of breath, cough, fever, weight loss and chest pain. Such exposure may cause pneumoconiosis and pulmonary fibrosis.	
	Required treatment – If inhalation of dust occurs, remove to fresh air. If shortness of breath or wheezing develops, seek medical attention.	
Skin	Dust may cause irritation of the skin from friction but cannot be absorbed through intact skin.  If skin contact occurs, wash with mild soap and water. Contact physician if irritation persists or later develops.	
Eyes	Dust may irritate the eyes from mechanical abrasion causing watering or redness.  If eye contact occurs, remove contact lenses (if applicable). Flush with running water or saline for at least 15 minutes. Seek medical attention if redness persists or if visual changes occur.	



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Ingestion	<p>Ingestion is unlikely under normal conditions of use, but swallowing the dust from the product may result in irritation or damage to the mouth and gastrointestinal tract due to alkalinity of dust.</p> <p>If ingestion occurs, dilute by drinking large amounts of water. Do not induce vomiting. Seek medical attention. If unconscious, loosen tight clothing and lay the person on his/her left side. Give nothing by mouth to an individual who is not alert and conscious.</p>
<b>Section 5. Fire-Fighting Measures</b>	
James Hardie® fiber-cement products are neither flammable nor explosive	
Suitable extinguishing techniques:	Appropriate extinguishing techniques for surrounding fire should be used.
Fire-fighting equipment:	Fire fighting personnel should wear normal protective equipment and positive self-contained breathing apparatus.
Special hazards arising from the substance or mixture:	James Hardie® fiber-cement products are neither flammable nor explosive. Hazardous reactions will not occur under normal conditions. Fight fire with normal precautions from a reasonable distance.
<b>Section 6. Accidental Release Measures</b>	
Emergency procedures:	No special precautions are necessary in the event of an accidental release. The following precautions apply to spills or releases of dust generated during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement.
Protective equipment:	<p>Good housekeeping practices are necessary for cleaning up areas where spills or leaks have occurred. Take measures to either eliminate or minimize the creation of dust. Respirable dust and silica levels should be monitored regularly.</p> <p>Wherever possible, practices likely to generate dust should be controlled with engineering such as local exhaust ventilation, dust suppression through containment (e.g. wetting loose dust), enclosure, or covers.</p> <p>Use respiratory protection as described in Section 8.</p>
Proper methods of containment and clean-up:	A fine water spray should be used to suppress dust when sweeping (dry sweeping should not be attempted). Vacuuming with an industrial vacuum cleaner outfitted with a high-efficiency particulate (HEPA) filter is preferred to sweeping. Dispose of product in accordance with local, state and national regulations. If there are no applicable regulations, dispose of in a secure landfill, or in a way that will not expose others to dust.

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Section 7. Handling and Storage			
Precautions of safe handling and storage:		<p>Fiber-cement boards in their intact state do not present a health hazard. The controls below apply to dust generated from the boards by cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust.</p> <p>James Hardie® recommended best practices for handling fiber-cement:</p> <p>Keep exposure to dust as low as reasonably possible. Respirable crystalline silica limits are specified by OSHA and MSHA and identified in Section 8 of this MSDS. Exposure to respirable (fine) silica dust depends on a variety of factors, including activity rate (e.g. cutting rate), method of handling (e.g. electric shears), environmental conditions (e.g. weather conditions, workstation orientation) and control measures used.</p> <p>Wherever possible, practices likely to generate dust should be carried out in well ventilated areas (e.g. outside). The work practices and engineering controls set out in Section 8 should be followed to reduce silica exposures.</p> <p>Keep away from reactive products. Do not store near food, beverages or smoking materials. Avoid spilling and creating dust. Maintain appropriate dust controls during handling. Use appropriate respiratory protection during handling as described in Section 8.</p>	
Incompatibilities:		Hydrofluoric acid will dissolve silica and can generate silicon tetrafluoride, a corrosive gas. Contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride or oxygen difluoride may cause fires and /or explosions. Furthermore, limestone is incompatible with acids and ammonium salts.	
Section 8. Exposure Controls / Personal Protection			
OSHA Permissible Exposure Standards (PEL): Exposures shall not exceed an 8-hour time weighted average (TWA) limit as stated in 29 CFR 1910.1000 Table Z-3 for mineral dusts, expressed in million particles per cubic feet (Mppcf) and/or milligrams per cubic meter (mg/m³). The American Conference of Governmental Industrial Hygienists Threshold Limit Values (TLV are that organization’s recommended exposure limits based on an 8-hour TWA.			
	TLV mg/m³	PEL Mppsf	PEL mg/m³
Crystalline Silica (Quartz) (Respirable)	0.025 mg/m³ —	250 %SiO + 5	10 mg/m³ %SiO + 2
Quartz (Total Dust)	—	—	30 mg/m³ %SiO + 2
Calcium Carbonate (Total Dust) (Respirable)	10 mg/m³ —	— —	15 mg/m³ 5 mg/m³

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Calcium Silicate (Total Dust) (Respirable)	— —	— —	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>
Nuisance Dust (Not Otherwise Specified) (Total Dust) (Respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup>	50 15	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>
Cellulose (Total) (Respirable)	— —	— —	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>
Carbon Black	3.5 mg/m <sup>3</sup>	—	3.5 mg/m <sup>3</sup>
<b>Other limits recommended:</b> The National Institute of Occupational Safety and Health (NIOSH) also has a Recommended Exposure Limit (REL) of 0.05 mg/m <sup>3</sup> for respirable crystalline silica, based on a 10-hour time-weighted average.			
<b>Engineering Controls</b>			
<p>Personal protection when handling products that may generate silica dust: (1) follow James Hardie® instructions and best practices to reduce or limit the release of dust; (2) warn others in the area to avoid the dust; (3) when using mechanical saw or high-speed cutting tools, work outdoors and use dust collection equipment, and (4) if no other dust controls are available, wear a NIOSH-approved dust mask or respirator (e.g. N95 dust mask).</p> <p>During clean-up, use a well-maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet cleanup methods—never dry sweep.</p>			
Cutting Outdoors	<ol style="list-style-type: none"> <li>1. Position cutting station so that wind will blow dust away from user or others in working area and allow for ample dust dissipation</li> <li>2. Use one of the following methods based on the required cutting rate and job-site conditions: <ul style="list-style-type: none"> <li>BEST <ul style="list-style-type: none"> <li>• Score and snap using carbide-tipped scoring knife or utility knife</li> <li>• Fiber-cement shears (electric or pneumatic)</li> </ul> </li> <li>BETTER <ul style="list-style-type: none"> <li>• Dust reducing circular saw equipped with Hardieblade™ saw blade and HEPA vacuum extraction</li> </ul> </li> <li>GOOD (for low to moderate cutting only) <ul style="list-style-type: none"> <li>• Dust reducing circular saw with Hardieblade™ saw blade</li> </ul> </li> </ul> </li> </ol>		
Cutting Indoors	<ul style="list-style-type: none"> <li>• Cut only using score and snap method or with fiber-cement shears (manual, electric or pneumatic)</li> <li>• Position cutting station in well-ventilated area to allow for dust dissipation</li> </ul>		

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Sanding / Rebating / Drilling / Other Machining	If sanding, rebating, drilling or other machining is necessary, you should always wear a NIOSH-approved dust mask or respirator (e.g. N-95) and warn others in the immediate area.
Clean-Up	During clean-up of dust and debris, NEVER dry sweep as it may excite silica dust particles into the user's breathing area. Instead, wet debris down with a fine mist to suppress dust during sweeping, or use a HEPA vacuum to collect particles.
Important Notes	<ol style="list-style-type: none"> <li>1. For maximum protection (lowest respirable dust production), James Hardie® recommends always using "Best"-level cutting methods where feasible</li> <li>2. NEVER use a power saw indoors</li> <li>3. NEVER use a circular saw blade that does not carry the Hardieblade™ saw blade trademark</li> <li>4. NEVER dry sweep – use wet suppression methods or HEPA vacuum</li> <li>5. NEVER use a grinder or continuous rim diamond blade for cutting</li> <li>6. ALWAYS follow tool manufacturer's safety recommendations</li> </ol>
<b>Personal Protective Equipment</b>	
<ul style="list-style-type: none"> <li>• <b>Respiratory</b> – If respirators are selected, use and maintain in accordance with ANSI Standard (Z88.2) for particulate respirators. Select respirators based on the level of exposure to crystalline silica as measured by dust sampling. Use respirators that offer protection to the highest concentrations of crystalline silica if the actual concentrations are unknown. Put in place a respiratory protection and monitoring program that complies with MSHA or OSHA (e.g. 29CFR1910.134) standards, which include provisions for a user training program, respirator repair and cleaning, respirator fit-testing and other requirements. Comply with all other applicable federal and state laws.</li> <li>• <b>Eye</b> – When cutting material, dust resistant safety goggles / glasses should be worn and used in compliance with ANSI Standard Z87.1 and applicable OSHA (e.g. 29CFR1910.133) standards.</li> <li>• <b>Skin</b> – Loose comfortable clothing should be worn. Direct skin contact with dust and debris should be avoided by wearing long sleeved shirts and long trousers, a cap or hat, and gloves. Work clothes should be washed regularly.</li> </ul>	
<b>Section 9. Physical and Chemical Properties</b>	
Appearance and odor: Solid gray boards with varying dimensions according to product. Some product may have a surface coat of water-based acrylic paint or acrylic sealer	
Vapor Pressure: Not relevant	Flash Point: Not relevant
Specific Gravity: Not relevant	Autoignition Temperature: Not relevant
Flammability Limits: Not relevant	Volatility: Not relevant
Boiling Point: Not relevant	Solubility in water: Not relevant



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Melting Point: Not relevant	Evaporation rate: Not applicable
<b>Section 10. Stability and Reactivity</b>	
Stability:	Crystalline silica and limestone are stable under ordinary conditions
Conditions to Avoid:	Excessive dust generation during storage and handling
Materials to Avoid:	Hydrofluoric acid will dissolve silica and can generate silicon tetrafluoride, a corrosive gas. Contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride or oxygen difluoride may cause fires and /or explosions. Furthermore, limestone is incompatible with acids and ammonium salts.
<b>Section 11. Toxicological Information</b>	
Routes of exposure:	Fiber-cement is not toxic in its intact form. The following applies to dust that may be generated during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement.
Related symptoms:	<p>Repeated and prolonged overexposures to dust containing crystalline silica can cause silicosis (scarring of the lung) and increases the risk of bronchitis, tuberculosis, lung cancer, renal disease and scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs). Some studies suggest that cigarette smoking increases the risk of silicosis, bronchitis, and lung cancer in persons also exposed to crystalline silica. Acute silicosis is a rapidly progressive, incurable lung disease that is typically fatal. Symptoms include, but are not limited to: shortness of breath, cough, fever, weight loss and chest pain. Such exposure may cause pneumoconiosis and pulmonary fibrosis.</p> <p>The following relates to health effects of cellulose: Based on limited animal research, it is possible that repeated chronic inhalation exposure to cellulose fiber dust over time may lead to inflammation and scarring of the lung in humans. Precautions taken for crystalline silica dust will protect against cellulose.</p> <p>Medical conditions generally aggravated by exposure – Pulmonary function may be reduced by inhalation of respirable crystalline silica and / or cellulose. If lung scarring occurs, such scarring could aggravate other lung conditions such as asthma, emphysema, pneumonia or restrictive lung diseases. Lung scarring from crystalline silica may also increase risks to pulmonary tuberculosis.</p> <p>Smoking – some studies suggest that cigarette smoking increases the risk of occupational respiratory diseases, including silica-related respiratory diseases.</p>
Acute and chronic effects:	<ul style="list-style-type: none"> <li>• Acute toxicity – not classified</li> <li>• Skin corrosion / irritation – not classified</li> <li>• Serious eye damage / irritation – not classified</li> <li>• Respiratory or skin sensitization – not classified</li> <li>• Germ cell mutagenicity – not classified</li> </ul>

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	<ul style="list-style-type: none"> <li>• Carcinogenicity – may cause cancer if dust from product is inhaled</li> <li>• Specific target organ toxicity (repeated exposure) – causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product</li> </ul>
Carcinogenicity:	<p>California Proposition 65 Warning: This product contains chemicals known to the State of California to cause cancer</p> <p>International Agency for Research on Cancer (IARC): Crystalline silica inhaled in the forms of quartz or cristobalite from occupational sources is carcinogenic to humans</p> <p>Carbon black is possibly carcinogenic to humans</p> <p>The National Toxicology Program (NTP): NTP has concluded that respirable crystalline silica is a known human carcinogen</p> <p>LD50 (Silicon dioxide): Rat oral &gt;22,500 mg / kg Mouse oral &gt; 10,500 mg/kg</p>
<b>Section 12. Ecological Information</b>	
There is a very limited amount of ecological data available on the effects of releases that may occur from this product being released into the environment. Clean up of the spilled product would not be expected to leave any hazardous material that could cause a significant adverse impact. There is a limited amount of ecological data available on crystalline silica, primarily because it is a naturally occurring mineral. An adequate representation of these data is beyond the scope of this document.	
<b>Section 13. Disposal Considerations</b>	
Dispose of material as inert, non-metallic mineral in conformance with local, state and federal regulations. Crystalline silica and limestone is not a RCRA hazardous waste.	
<b>Section 14. Transport Information</b>	
There are no special requirements for storage and transport	
UN No:	None allocated
Dangerous goods class:	None allocated
Hazchem code:	None allocated
Poisons schedule:	None allocated
Packing group:	Not applicable
Label:	Not a DOT hazardous material. Local regulations may apply
<b>Section 15. Regulatory Information</b>	
DOT hazard classification:	None
Placard requirement:	Not a DOT hazardous material. Local placarding regulations may apply

Date of Issue: 06/01/15

California Proposition 65:	<b>Warning: Airborne particles of respirable size of crystalline silica are known to the State of California to cause cancer.</b>
CERCLA hazardous substance (40CFR Part 302):	<b>Listed substance: No</b> <b>Unlisted substance: No</b> <b>Reportable quantity (RQ): None</b> <b>Characteristic(s): Not applicable</b> <b>RCRA waste number: Not applicable</b>
SARA. Title III. Sections 302 / 303 (40CFR part 355 – Emergency Planning and Notification):	<b>Extremely hazardous substance: No</b>
SARA. Title III. Section 311 / 312 (40CFR part 370 – Hazardous Chemical Reporting: Community Right-To-Know):	<b>Acute: Yes</b> <b>Chronic: Yes</b> <b>Fire: No</b> <b>Pressure: No</b> <b>Reactivity: No</b>
SARA. Title III. Section 313 (40CFR part 372 – Toxic Chemical Release Reporting: Community Right-To-Know)	<b>Not a RCRA hazardous waste</b>
TSCA Inventory List:	<b>Yes</b>
TSCA 8(d):	<b>No</b>
<b>Section 16. Other Information</b>	
Prepared by Jeff Fry	<b>Issue Date: 06/01/15</b>



Date of Issue: 06/01/15

<p>Read label before use</p> <p><b>FIBER CEMENT</b> Contains: Crystalline Silica (quartz) 10-30% Calcium Silicate (hydrate) 10-60% Cellulose fiber&lt;10%]</p> <p><b>DANGER</b> May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product.</p> <p><b>Prevention:</b> Refer to the product Safety Data Sheet before use. Do not handle until all safety precautions have been read and understood.  Do not breathe dust from the product. Do not eat, drink or smoke when using this product. Wear personal protective equipment, as specified below.</p> <p><b>Response:</b> Wash hands and face thoroughly after handling. If exposed or concerned: Get medical advice. If shortness of breath or other health concerns develop after exposure to dust from the product, seek medical attention.</p> <p><b>Storage:</b> Fiber cement is not a health hazard when handled or stored in its original, unaltered condition</p> <p><b>Disposal:</b> Dispose of product in accordance with local, state and national regulations. If there are no applicable regulations, dispose of in a secure landfill, or in a way that will not expose others to dust.</p> <p>The hazard associated with fiber cement arises from the crystalline silica present in dust generated by activities such as cutting, rebating, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving dust. When doing any of these activities in a manner that generates dust: (1) follow James Hardie instructions and best practices to reduce or limit the release of dust; (2) warn others in the area to avoid dust; (3) work outdoors and use vacuum dust collection when using mechanical saws or other high speed cutting tools; (4) wear a dust mask or respirator that meets applicable national regulations, as specified below.</p> <p>During clean-up, use a well maintained vacuum and filter appropriate for capturing respirable fine dust or use wet cleanup methods - never dry sweep.</p> <p>If using a dust mask or respirator, always use a NIOSH-approved dust mask or respirator (e.g., the N 95 dust mask).</p> <p><b>WARNING:</b> This product contains a chemical known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov/product">www.P65Warnings.ca.gov/product</a>.</p> <p>James Hardie Building Products, Inc. 231 S. LaSalle St., Suite 2000 Chicago, IL 60604 USA <b>1-888 JHARDIE</b> <a href="http://www.jameshardie.com">www.jameshardie.com</a> <a href="http://www.jhsafesite.com">www.jhsafesite.com</a></p>			
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This form has been prepared to meet current Federal OSHA hazard communication regulations and is offered without any warranty or guarantee of any type. James Hardie Building Products cannot control the use of its products, and therefore specifically disclaims liability and responsibility arising from the use, misuse and alteration of its products.

The information contained on this MSDS was produced without independent scientific or medical studies analyzing the effects of silica upon human health. The information contained herein is based upon scientific and other data James Hardie Building Products believes is valid and reliable and provides the basis for this MSDS. The information contained herein relates only to specific materials listed in the document. It does not address the effects of silica when used in combination with other materials or substances, or when used in other processes. Because conditions of use are beyond James Hardie Building Products control, the company makes no representation, guarantee or warranty of any kind in this MSDS, either express or implied, including the implied warranties of merchantability or fitness of the product for use for a particular purpose, and assumes no liability related to the information contained above.

James Hardie Building Products requires, as a condition of use of its products, that purchasers comply with all applicable federal, state, and local health and safety laws, regulations, orders, requirements, and strictly adhere to all instructions and warnings which accompany the product.





## Contract - Detailed

Pella Window and Door Showroom of Beltsville  
12100 Baltimore Avenue Suite 1  
Beltsville, MD 20705-1363  
Phone: (301) 685-1715 Fax: (301) 210-9542

Sales Rep Name: McHugh, Peter K.  
Sales Rep Phone: 240-315-3090  
Sales Rep Fax: 1-877-892-8939  
Sales Rep E-Mail: pmchugh@pellamidatlantic.com

Customer Information	Project/Delivery Address	Order Information
<b>Dilan Homes</b> 721 Ellsworth Ave  Great Falls, VA 22066 <b>Primary Phone:</b> (202) 3094514 <b>Mobile Phone:</b> <b>Fax Number:</b> <b>E-Mail:</b> <b>Contact Name:</b>  <b>Great Plains #:</b> 1006931355 <b>Customer Number:</b> 1010740523 <b>Customer Account:</b> 1006931355	<b>5602 York Lane</b> 721 Ellsworth Ave  <b>Lot #</b> Great Falls, VA 22066 <b>County:</b> <b>Owner Name:</b>  <b>Owner Phone:</b>	<b>Quote Name:</b> 5602 York Lane  <b>Order Number:</b> 060 <b>Quote Number:</b> <b>16246969</b> <b>Order Type:</b> Non-Installed Sales <b>Wall Depth:</b> <b>Payment Terms:</b> C.O.D. <b>Tax Code:</b> MARYLAND8 <b>Cust Delivery Date:</b> None <b>Quoted Date:</b> 11/23/2022 <b>Contracted Date:</b> <b>Booked Date:</b> <b>Customer PO #:</b>

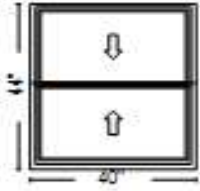
Customer Notes: PELLA LIFESTYLE WINDOW SERIES

BLACK CLAD EXTERIOR  
BLACK INTERIOR  
SIMULATED DIVIDED LIGHT GRILLES WITH SPACER  
FULL SCREENS ON OPERABLE UNITS  
BLACK HARDWARE  
NO JAMB EXTENSIONS  
NO FINS

\*\*\*\*\* PRELIMINARY COSTING

\*\*\*\*\* 10 WEEK LEAD TIME AT PRESENT

Line #	Location:	Attributes		
10	Basement	<b>Lifestyle, Double Hung, 40 X 44, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u>
			\$636.50	3
				<u>Ext'd Price</u>
				\$1,909.50



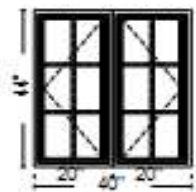
Viewed From Exterior

PK #  
2125

1: Non-Standard SizeNon-Standard Size Double Hung, Equal  
Frame Size: 40 X 44  
General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16", Jambliner Color: Gray  
Exterior Color / Finish: Standard Enduraclad, Black  
Interior Color / Finish: Black Stain Interior  
Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  
Hardware Options: Cam-Action Lock, Matte Black, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor  
Screen: Full Screen, Black, InView™  
Performance Information: U-Factor 0.30, SHGC 0.30, VLT 0.56, CPD PEL-N-35-00426-00001, Performance Class LC, PG 30, Calculated Positive DP Rating 30, Calculated Negative DP Rating 30, Year Rated 08|11, Clear Opening Width 36.812, Clear Opening Height 18.75, Clear Opening Area 4.793229, Egress Does not meet typical United States egress, but may comply with local code requirements  
Remake: ,  
Grille: No Grille,  
Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 168".

Rough Opening: 40 - 3/4" X 44 - 3/4"

Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
15	Basement Laundry	<b>Lifestyle, 2-Wide Casement, 40 X 44, Without HGP, Black</b>	\$1,620.40	1	\$1,620.40



PK #  
2125

Viewed From Exterior

1: Non-Standard SizeNon-Standard Size Left Casement

Frame Size: 20 X 44

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 10.25, Clear Opening Height 39.875, Clear Opening Area 2.838325, Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H)

Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical

2: Non-Standard SizeNon-Standard Size Right Casement

Frame Size: 20 X 44

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 10.25, Clear Opening Height 39.875, Clear Opening Area 2.838325, Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H)

Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 168".

**Rough Opening:** 40 - 3/4" X 44 - 3/4"

Line #	Location:	Attributes		
20	Basement Bath	<b>Lifestyle, Casement Right, 22 X 44, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$903.34	1   \$903.34
		<b>PK #</b> 2125	<p>1: Non-Standard SizeNon-Standard Size Right Casement  Frame Size: 22 X 44  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 12.25, Clear Opening Height 39.875, Clear Opening Area 3.392144, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 132".</p>	

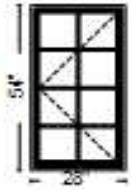
Rough Opening: 22 - 3/4" X 44 - 3/4"

Customer Notes: TEMPERED

Line #	Location:	Attributes		
25	Dining Room	<b>Lifestyle, Casement Right, 28 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$976.92	1   \$976.92
		<b>PK #</b> 2125	<p>1: Non-Standard SizeNon-Standard Size Right Casement  Frame Size: 28 X 54  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 18.25, Clear Opening Height 49.875, Clear Opening Area 6.320963, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 164".</p>	

Rough Opening: 28 - 3/4" X 54 - 3/4"

Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
30	Dining Room	<b>Lifestyle, Casement Left, 28 X 54, Without HGP, Black</b>	\$976.92	1	\$976.92



Viewed From Exterior

PK #  
2125

1: Non-Standard SizeNon-Standard Size Left Casement

Frame Size: 28 X 54

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 18.25, Clear Opening Height 49.875, Clear Opening Area 6.320963, Egress Does not meet typical United States egress, but may comply with local code requirements

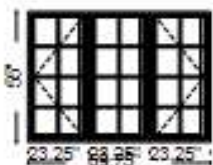
Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)

Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 164".

Rough Opening: 28 - 3/4" X 54 - 3/4"



Line #	Location:	Attributes		
35	Dining Room	<b>Lifestyle, 3-Wide Casement, 69.75 X 55, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$2,866.96	1 \$2,866.96
	 <p>PK # 2125</p> <p>Viewed From Exterior</p>	<p>1: 23.2555 Left Casement  Frame Size: 23 1/4 X 55  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 13.5, Clear Opening Height 50.875, Clear Opening Area 4.769531, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical</p> <p>2: 23.2555 Fixed Sash Set  Frame Size: 23 1/4 X 55  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Performance Information: U-Factor 0.28, SHGC 0.28, VLT 0.52, CPD PEL-N-229-00863-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Vertical Mull 2: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical</p> <p>3: 23.2555 Right Casement  Frame Size: 23 1/4 X 55  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 13.5, Clear Opening Height 50.875, Clear Opening Area 4.769531, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 250".</p>		

**Rough Opening: 70 - 1/2" X 55 - 3/4"**

Line #	Location:	Attributes		
40	Kitchen	<b>Lifestyle, Casement Left, 28 X 55, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u>
			\$982.84	1
				<u>Ext'd Price</u>
				\$982.84
		<b>PK #</b> 2125	<p>1: Non-Standard SizeNon-Standard Size Left Casement  Frame Size: 28 X 55  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 18.25, Clear Opening Height 50.875, Clear Opening Area 6.4477, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 166".</p>	

**Rough Opening:** 28 - 3/4" X 55 - 3/4"

Customer Notes: TEMPERED

Line #	Location:	Attributes		
45	Kitchen	<b>Lifestyle, 2-Wide Casement, 42 X 44, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$1,774.46	1   \$1,774.46
	 <p>PK # 2125</p> <p>Viewed From Exterior</p>	<p>1: 2144 Left Casement  Frame Size: 21 X 44  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 11.25, Clear Opening Height 39.875, Clear Opening Area 3.115234, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical</p> <p>2: 2144 Right Casement  Frame Size: 21 X 44  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 11.25, Clear Opening Height 39.875, Clear Opening Area 3.115234, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 172".</p>		

**Rough Opening:** 42 - 3/4" X 44 - 3/4"

Line #	Location:	Attributes		
50	Guest Bed	<b>Lifestyle, 2-Wide Casement, 40 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u>
			\$1,880.91	1
				<u>Ext'd Price</u>
				\$1,880.91



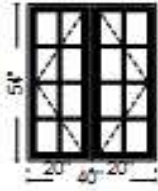
Viewed From Exterior

PK #  
2125

1: Non-Standard SizeNon-Standard Size Left Casement  
 Frame Size: 20 X 54  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  
 Exterior Color / Finish: Standard Enduraclad, Black  
 Interior Color / Finish: Black Stain Interior  
 Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  
 Screen: Full Screen, Black, InView™  
 Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 10.25, Clear Opening Height 49.875, Clear Opening Area 3.55013, Egress Does not meet typical United States egress, but may comply with local code requirements  
 Remake: ,  
 Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  
 Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical  
 2: Non-Standard SizeNon-Standard Size Right Casement  
 Frame Size: 20 X 54  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  
 Exterior Color / Finish: Standard Enduraclad, Black  
 Interior Color / Finish: Black Stain Interior  
 Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  
 Screen: Full Screen, Black, InView™  
 Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 10.25, Clear Opening Height 49.875, Clear Opening Area 3.55013, Egress Does not meet typical United States egress, but may comply with local code requirements  
 Remake: ,  
 Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  
 Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 188".

Rough Opening: 40 - 3/4" X 54 - 3/4"

Line #	Location:	Attributes		
55	Guest Bed	<b>Lifestyle, 2-Wide Casement, 40 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u>
			\$1,880.91	1
				<u>Ext'd Price</u>
				\$1,880.91



Viewed From Exterior

PK #  
2125

1: Non-Standard SizeNon-Standard Size Left Casement  
 Frame Size: 20 X 54  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  
 Exterior Color / Finish: Standard Enduraclad, Black  
 Interior Color / Finish: Black Stain Interior  
 Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  
 Screen: Full Screen, Black, InView™  
 Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 10.25, Clear Opening Height 49.875, Clear Opening Area 3.55013, Egress Does not meet typical United States egress, but may comply with local code requirements  
 Remake: ,  
 Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  
 Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical  
 2: Non-Standard SizeNon-Standard Size Right Casement  
 Frame Size: 20 X 54  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  
 Exterior Color / Finish: Standard Enduraclad, Black  
 Interior Color / Finish: Black Stain Interior  
 Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  
 Screen: Full Screen, Black, InView™  
 Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 10.25, Clear Opening Height 49.875, Clear Opening Area 3.55013, Egress Does not meet typical United States egress, but may comply with local code requirements  
 Remake: ,  
 Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  
 Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 188".

Rough Opening: 40 - 3/4" X 54 - 3/4"




Line #	Location:	Attributes								
60	Guest Bath	<div></div> <div>Viewed From Exterior</div>	<b>Lifestyle, Casement Right, 28 X 44, Without HGP, Black</b>	<table><tr><th>Item Price</th><th>Qty</th><th>Ext'd Price</th></tr><tr><td>\$947.20</td><td>1</td><td>\$947.20</td></tr></table>	Item Price	Qty	Ext'd Price	\$947.20	1	\$947.20
Item Price	Qty	Ext'd Price								
\$947.20	1	\$947.20								
PK # 2125		<p>1: Non-Standard SizeNon-Standard Size Right Casement Frame Size: 28 X 44 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Standard Enduraclad, Black Interior Color / Finish: Black Stain Interior Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor Screen: Full Screen, Black, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 18.25, Clear Opening Height 39.875, Clear Opening Area 5.053602, Egress Does not meet typical United States egress, but may comply with local code requirements Remake: , Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H) Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 144".</p>								

**Rough Opening:** 28 - 3/4" X 44 - 3/4"

Customer Notes: TEMPERED

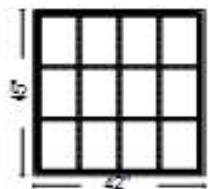
Line #	Location:	Attributes		
65	Living Room	<b>Lifestyle, 2-Wide Casement, 41 X 55, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$1,904.57	4   \$7,618.28
	<p>Viewed From Exterior</p>	<p><b>PK #</b> 2125</p> <p>1: Non-Standard SizeNon-Standard Size Left Casement  Frame Size: 20 1/2 X 55  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 10.75, Clear Opening Height 50.875, Clear Opening Area 3.79796, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical  2: Non-Standard SizeNon-Standard Size Right Casement  Frame Size: 20 1/2 X 55  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 10.75, Clear Opening Height 50.875, Clear Opening Area 3.79796, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 192".</p>		

**Rough Opening:** 41 - 3/4" X 55 - 3/4"

Line #	Location:	Attributes		
70	Entry	<b>Lifestyle, Direct Set, Fixed Frame, 13 X 40, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
		<p>1: 1340 Fixed Frame Direct Set</p> <p>Frame Size: 13 X 40</p> <p>General Information: No Package, Without Hinged Glass Panel, Interior Glazed, Standard, Clad, Pine, 5", 3 11/16"</p> <p>Exterior Color / Finish: Standard Enduraclad, Black</p> <p>Interior Color / Finish: Black Stain Interior</p> <p>Glass: Insulated Dual Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude</p> <p>Performance Information: U-Factor 0.28, SHGC 0.32, VLT 0.62, CPD PEL-N-18-03365-00001, Performance Class CW, PG 90, Calculated Positive DP Rating 90, Calculated Negative DP Rating 90, Year Rated 08 11</p> <p>Remake: ,</p> <p>Grille: No Grille,</p> <p>Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 106".</p>	\$506.42	1   \$506.42
	Viewed From Exterior	PK # 2125		

Rough Opening: 13 - 3/4" X 40 - 3/4"

Customer Notes:    TEMPERED

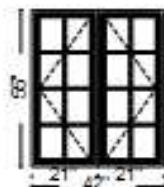
Line #	Location:	Attributes		
75	Garage	<b>Lifestyle, Direct Set, Fixed Frame, 42 X 45, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
		<p>1: 4245 Fixed Frame Direct Set</p> <p>Frame Size: 42 X 45</p> <p>General Information: No Package, Without Hinged Glass Panel, Interior Glazed, Standard, Clad, Pine, 5", 3 11/16"</p> <p>Exterior Color / Finish: Standard Enduraclad, Black</p> <p>Interior Color / Finish: Black Stain Interior</p> <p>Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude</p> <p>Performance Information: U-Factor 0.29, SHGC 0.29, VLT 0.55, CPD PEL-N-18-03367-00001, Performance Class CW, PG 65, Calculated Positive DP Rating 65, Calculated Negative DP Rating 65, Year Rated 08 11</p> <p>Remake: ,</p> <p>Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (4W3H)</p> <p>Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 174".</p>	\$1,029.61	1   \$1,029.61
	Viewed From Exterior	PK # 2125		

Rough Opening: 42 - 3/4" X 45 - 3/4"

Line #	Location:	Attributes		
80	Bed #3	<b>Lifestyle, 2-Wide Casement, 42 X 55, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$1,904.57	1   \$1,904.57
	 <p>PK # 2125</p> <p>Viewed From Exterior</p>	<p>1: Non-Standard Size Left Casement  Frame Size: 21 X 55  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 11.25, Clear Opening Height 50.875, Clear Opening Area 3.974609, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical  2: Non-Standard Size Right Casement  Frame Size: 21 X 55  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 11.25, Clear Opening Height 50.875, Clear Opening Area 3.974609, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 194".</p>		

**Rough Opening:** 42 - 3/4" X 55 - 3/4"

Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
85	Bed #3	<b>Lifestyle, 2-Wide Casement, 42 X 55, Without HGP, Black</b>	\$1,904.57	1	\$1,904.57



PK #  
2125

Viewed From Exterior

**1: Non-Standard Size Left Casement**

Frame Size: 21 X 55

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 11.25, Clear Opening Height 50.875, Clear Opening Area 3.974609, Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)

Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical

**2: Non-Standard Size Right Casement**

Frame Size: 21 X 55

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 11.25, Clear Opening Height 50.875, Clear Opening Area 3.974609, Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)

Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 194".

**Rough Opening:** 42 - 3/4" X 55 - 3/4"



Line #	Location:	Attributes		
90	Stairs	<b>Lifestyle, Casement Right, 22 X 44, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$903.34	1   \$903.34
	 <p>Viewed From Exterior</p>	<p>PK # 2125</p> <p>1: Non-Standard SizeNon-Standard Size Right Casement  Frame Size: 22 X 44  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 12.25, Clear Opening Height 39.875, Clear Opening Area 3.392144, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 132".</p>		

Rough Opening: 22 - 3/4" X 44 - 3/4"

Customer Notes: TEMPERED

Line #	Location:	Attributes		
95	Stairs	<b>Lifestyle, Casement Left, 22 X 44, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$903.34	1   \$903.34
	 <p>Viewed From Exterior</p>	<p>PK # 2125</p> <p>1: Non-Standard SizeNon-Standard Size Left Casement  Frame Size: 22 X 44  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 12.25, Clear Opening Height 39.875, Clear Opening Area 3.392144, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 132".</p>		

Rough Opening: 22 - 3/4" X 44 - 3/4"

Customer Notes: TEMPERED

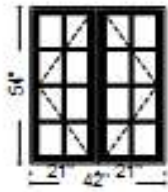
Line #	Location:	Attributes		
100	Bed #2	<b>Lifestyle, Casement Right, 22 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$941.44	1   \$941.44
	 <p>Viewed From Exterior</p> <p>PK # 2125</p>	<p>1: Non-Standard SizeNon-Standard Size Right Casement  Frame Size: 22 X 54  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 12.25, Clear Opening Height 49.875, Clear Opening Area 4.242838, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 152".</p>		

Rough Opening: 22 - 3/4" X 54 - 3/4"

Line #	Location:	Attributes		
105	Bed #2	<b>Lifestyle, Casement Left, 22 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$941.44	1   \$941.44
	 <p>Viewed From Exterior</p> <p>PK # 2125</p>	<p>1: Non-Standard SizeNon-Standard Size Left Casement  Frame Size: 22 X 54  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 12.25, Clear Opening Height 49.875, Clear Opening Area 4.242838, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 152".</p>		

Rough Opening: 22 - 3/4" X 54 - 3/4"

Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
110	Bed #2	<b>Lifestyle, 2-Wide Casement, 42 X 54, Without HGP, Black</b>	\$1,892.74	1	\$1,892.74



PK #  
2125

Viewed From Exterior

**1: Non-Standard Size Left Casement**

Frame Size: 21 X 54

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 11.25, Clear Opening Height 49.875, Clear Opening Area 3.896484, Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)

Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical

**2: Non-Standard Size Right Casement**

Frame Size: 21 X 54

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 11.25, Clear Opening Height 49.875, Clear Opening Area 3.896484, Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)

Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 192".

**Rough Opening:** 42 - 3/4" X 54 - 3/4"

Line #	Location:	Attributes		
115	Hall Bath	<b>Lifestyle, 2-Wide Casement, 42 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u>
			\$2,102.18	1
				<u>Ext'd Price</u>
				\$2,102.18
		<p><b>PK #</b> 2125</p> <p>1: Non-Standard Size Left Casement Frame Size: 21 X 54 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Standard Enduraclad, Black Interior Color / Finish: Black Stain Interior Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor Screen: Full Screen, Black, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 11.25, Clear Opening Height 49.875, Clear Opening Area 3.896484, Egress Does not meet typical United States egress, but may comply with local code requirements Remake: , Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H) Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical 2: Non-Standard Size Right Casement Frame Size: 21 X 54 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Standard Enduraclad, Black Interior Color / Finish: Black Stain Interior Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor Screen: Full Screen, Black, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 11.25, Clear Opening Height 49.875, Clear Opening Area 3.896484, Egress Does not meet typical United States egress, but may comply with local code requirements Remake: , Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H) Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 192".</p>		

**Rough Opening:** 42 - 3/4" X 54 - 3/4"

Customer Notes: TEMPERED

Line #	Location:	Attributes		
120	Bed #1	<b>Lifestyle, 2-Wide Casement, 42 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u>
			\$1,892.74	1
				<u>Ext'd Price</u>
				\$1,892.74
		<p>PK # 2125</p> <p>1: Non-Standard Size Left Casement Frame Size: 21 X 54 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Standard Enduraclad, Black Interior Color / Finish: Black Stain Interior Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor Screen: Full Screen, Black, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 11.25, Clear Opening Height 49.875, Clear Opening Area 3.896484, Egress Does not meet typical United States egress, but may comply with local code requirements Remake: , Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H) Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical 2: Non-Standard Size Right Casement Frame Size: 21 X 54 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Standard Enduraclad, Black Interior Color / Finish: Black Stain Interior Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor Screen: Full Screen, Black, InView™ Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 11.25, Clear Opening Height 49.875, Clear Opening Area 3.896484, Egress Does not meet typical United States egress, but may comply with local code requirements Remake: , Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H) Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 192".</p>		

Rough Opening: 42 - 3/4" X 54 - 3/4"



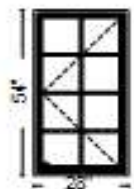
Line #	Location:	Attributes		
125	Bed #1	<b>Lifestyle, Casement Right, 28 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$976.92	1   \$976.92
	 <p>Viewed From Exterior</p> <p>PK # 2125</p>	<p>1: Non-Standard SizeNon-Standard Size Right Casement  Frame Size: 28 X 54  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 18.25, Clear Opening Height 49.875, Clear Opening Area 6.320963, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 164".</p>		

Rough Opening: 28 - 3/4" X 54 - 3/4"

Line #	Location:	Attributes		
130	Bed #1	<b>Lifestyle, Casement Left, 28 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u> <u>Ext'd Price</u>
			\$976.92	1   \$976.92
	 <p>Viewed From Exterior</p> <p>PK # 2125</p>	<p>1: Non-Standard SizeNon-Standard Size Left Casement  Frame Size: 28 X 54  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 18.25, Clear Opening Height 49.875, Clear Opening Area 6.320963, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 164".</p>		

Rough Opening: 28 - 3/4" X 54 - 3/4"

Line #	Location:	Attributes		
135	Master Bath	<b>Lifestyle, Casement Left, 28 X 54, Without HGP, Black</b>	<u>Item Price</u>	<u>Qty</u>
			\$1,091.42	1
				<u>Ext'd Price</u>
				\$1,091.42
		<p>1: Non-Standard SizeNon-Standard Size Left Casement  Frame Size: 28 X 54  General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  Exterior Color / Finish: Standard Enduraclad, Black  Interior Color / Finish: Black Stain Interior  Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor  Screen: Full Screen, Black, InView™  Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 18.25, Clear Opening Height 49.875, Clear Opening Area 6.320963, Egress Does not meet typical United States egress, but may comply with local code requirements  Remake: ,  Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)  Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 164".</p>		



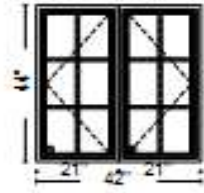
PK #  
2125

Viewed From Exterior

**Rough Opening:** 28 - 3/4" X 54 - 3/4"

Customer Notes: TEMPERED

Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
140	Stairs	<b>Lifestyle, 2-Wide Casement, 42 X 44, Without HGP, Black</b>	\$1,813.74	1	\$1,813.74



Viewed From Exterior

PK #  
2125

## 1: Non-Standard Size Left Casement

Frame Size: 21 X 44

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP

Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 11.25, Clear Opening Height 39.875, Clear Opening Area 3.115234,

Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H)

Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical

## 2: Non-Standard Size Right Casement

Frame Size: 21 X 44

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.46, CPD PEL-N-14-00687-00001, Performance Class LC, PG 50, Calculated Positive DP

Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 11.25, Clear Opening Height 39.875, Clear Opening Area 3.115234,

Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H)

Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 172".

Rough Opening: 42 - 3/4" X 44 - 3/4"

Customer Notes: TEMPERED

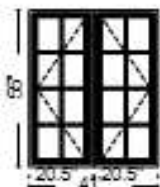
Line #	Location:	Attributes				
145	Attic	<div></div> <div>Viewed From Exterior</div>	<b>Lifestyle, Casement Right, 22 X 44, Without HGP, Black</b>	<div><div>Item Price</div><div>\$811.18</div></div>	<div><div>Qty</div><div>1</div></div>	<div><div>Ext'd Price</div><div>\$811.18</div></div>
	<b>PK #</b> 2125	<div>1: Non-Standard SizeNon-Standard Size Right Casement</div> <div>Frame Size: 22 X 44</div> <div>General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"</div> <div>Exterior Color / Finish: Standard Enduraclad, Black</div> <div>Interior Color / Finish: Black Stain Interior</div> <div>Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude</div> <div>Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor</div> <div>Screen: Full Screen, Black, InView™</div> <div>Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08 11, Clear Opening Width 12.25, Clear Opening Height 39.875, Clear Opening Area 3.392144, Egress Does not meet typical United States egress, but may comply with local code requirements</div> <div>Remake: ,</div> <div>Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W3H)</div> <div>Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 132".</div>				

Rough Opening: 22 - 3/4" X 44 - 3/4"

Line #	Location:	Attributes				
150	Attic	<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div></div> <div>Viewed From Exterior</div>	<div><div><div>Lifestyle, Direct Set, Fixed Frame, 12 X 28, Without HGP, Black</div><div>1: 1228 Fixed Frame Direct Set Frame Size: 12 X 28 General Information: No Package, Without Hinged Glass Panel, Interior Glazed, Standard, Clad, Pine, 5", 3 11/16" Exterior Color / Finish: Standard Enduraclad, Black Interior Color / Finish: Black Stain Interior Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude Performance Information: U-Factor 0.29, SHGC 0.29, VLT 0.55, CPD PEL-N-18-03367-00001, Performance Class CW, PG 90, Calculated Positive DP Rating 90, Calculated Negative DP Rating 90, Year Rated 08 11 Remake: , Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (1W2H) Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 80".</div></div></div>	<div><div>Item Price</div><div>\$469.24</div></div>	<div><div>Qty</div><div>1</div></div>	<div><div>Ext'd Price</div><div>\$469.24</div></div>

Rough Opening: 12 - 3/4" X 28 - 3/4"

Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
155	NEW CONSTRUCTION	<b>Lifestyle, 2-Wide Casement, 41 X 55, Without HGP, Black</b>	\$1,904.57	8	\$15,236.56



PK #  
2125

Viewed From Exterior

1: Non-Standard SizeNon-Standard Size Left Casement

Frame Size: 20 1/2 X 55

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP

Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 10.75, Clear Opening Height 50.875, Clear Opening Area 3.79796,

Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)

Vertical Mull 1: FactoryMull, Standard Joining Mullion, Mull Design Pressure- 20, Overall Thru Direction- Vertical

2: Non-Standard SizeNon-Standard Size Right Casement

Frame Size: 20 1/2 X 55

General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, Black

Interior Color / Finish: Black Stain Interior

Glass: Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Wash Hinge Hardware, Fold-Away Crank, Matte Black, No Limited Opening Hardware, No Integrated Sensor

Screen: Full Screen, Black, InView™

Performance Information: U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-14-00679-00001, Performance Class LC, PG 50, Calculated Positive DP

Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, Clear Opening Width 10.75, Clear Opening Height 50.875, Clear Opening Area 3.79796,

Egress Does not meet typical United States egress, but may comply with local code requirements

Remake: ,

Grille: SDL w/Spacer, No Custom Grille, 7/8", Traditional (2W4H)

Wrapping Information: No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 192".

**Rough Opening:** 41 - 3/4" X 55 - 3/4"



Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
0	None Assigned	TRFUELSURCHARGE - Fuel Surcharge - TRADE	\$75.00	1	\$75.00

## 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](mailto: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](https://www.pella.com/arbitration) or e-mail to [pellawebsupport@pella.com](mailto: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. DE ARBITRAJE Y RENUNCIA COLECTIVA ("acuerdo de arbitraje") EN ESPAÑOL VER 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).

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](http://www.pella.com/performance).

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**Pella Mid-Atlantic, Inc. (the “Seller”)****QUOTE:**

Due to unprecedented volatility in the market surrounding home improvement materials pricing, this quote is subject to change based on increases from Pella Corporation and our other suppliers. Seller cannot guarantee these prices until the project is purchased. Seller will do its best to honor the original pricing but based on circumstances out of its control, this may not be possible. The Seller is not responsible for delays due to labor troubles, fire, accidents, transportation, or other causes beyond its control.

**CONTRACT:**

This Contract constitutes the sole and complete agreement between the Purchaser and Seller and is subject to additional charges should changes be required. No statement, representation or agreement, written or verbal, not appearing on the face of this Contract is binding on the Seller. This Contract is binding upon the Seller only upon acceptance by an authorized executive of the Seller at the home office. All agreements are subject to prior sale, government regulations and requirements. If Contract is not approved, the Purchaser will be notified within fourteen (14) days of Contract date, otherwise the same is automatically approved.

**MATERIALS TO BE FURNISHED:**

Contract is based upon quantities, unit sizes, and unit numbers as sketched and listed on enclosed proposal, as well as equipment and fittings as specified. Drawings are as viewed from the exterior. Purchaser should carefully check quantities, sizes, and specifications.

**Note:** All Pella products are custom built for your specific project, designed for professional installation and non-returnable. It is the responsibility of the Purchaser to verify all sizes and window attributes prior to ordering. Seller is not responsible or liable for inaccurate measurements. Installers will often have different preferences on how they measure or install windows and doors. Due to these variances, it is imperative your project manager or installer is involved in the measuring process.

**Purchaser has verified that all attributes and sizes are correct.**

**[INITIAL]** \_\_\_\_\_

If Seller is doing the installation, then Seller is responsible for the sizing on replacement projects only.

Unless otherwise noted:

- Pella wood windows and sliding glass doors are factory primed on the exterior (excludes Mahogany).
- Units with wood exterior, assembled by the Seller include standard brickmould, subsill and outside mullion covers.

**DELIVERY:**

**PURCHASER MUST FURNISH HELP TO UNLOAD AT TIME OF DELIVERY.** Purchaser is responsible for checking the material upon arrival. Any shortage or damage must be noted on the delivery/packing list. No claims will be considered unless Seller is notified within seventy-two (72) hours from the date of delivery. Seller will deliver the goods covered by this Contract within a commercially reasonable time from the date of Contract ratification given supply and market conditions, unless otherwise expressly stated in this written contract.

*Purchaser agrees to take receipt of all materials within 30 days of either original requested need by date or actual date of arrival at Seller’s warehouse, whichever is later. After 30 days, materials will be subject to a recurring monthly storage fee equal to 20% of product contracted price. All storage fees are required to be paid in whole prior to product delivery. Exceptions for screens and hardware items must be requested and approved prior to order placement.*

**PAYMENT TERMS:**



Materials purchased through Service or Parts department must be prepaid in full and do not qualify for the payment schedules below.

If Seller is doing the installation, the following payment schedule is applied:

PAYMENT SCHEDULE		
Deposit Amount: \$ (30% - Due when Contract signed)	Delivery Payment: \$ (60% - Due on the first day of work/delivery)	Final Payment: \$ (10% Due at substantial completion)

For Delivery only:

Unless you have been approved for "Net 30 Days," a 50% Deposit must be made upon execution of this Contract. The remaining 50% balance must be received from Purchaser not less than five (5) days prior to Anticipated Delivery Date. Purchaser must make payment by credit card (no checks will be accepted).

**In all payment scenarios, when Purchaser supplies the credit card number for the deposit, Purchaser agrees that Seller may retain the credit card information in a PCI compliant system, and that Seller is authorized to use this card for making final payment. To be clear, Purchaser is authorizing Seller to use Purchaser's card on file to make final payment five days prior to delivery. \_\_\_\_\_ [INITIAL]**

NET 30 DAYS (if applicable): Net 30 terms are subject to approval by Seller of Purchaser's credit. A one- and one-half percent (1.5%) per month (annual percentage rate of eighteen percent) late charge will apply to all payments over thirty (30) days past due computed on the basis of the balance outstanding at the end of each monthly statement period.

#### SELLER REMEDIES:

Seller reserves a security interest in the goods sold pursuant to this Contract under the applicable provisions of Article 9 -Secured Transactions-Uniform Commercial Code. Seller further reserves the right to perfect and enforce any statutory lien, including any mechanic's contractor's or materialmen's lien, arising under local law to secure payment of the account debt arising under this Contract. In the event Seller employs an attorney-at-law after Purchaser has defaulted in its payment as agreed under the terms of this contract, then Purchaser shall pay Seller a collection fee in a fixed and stipulated sum equal to twenty percent (20%) of the outstanding principal account balance at the time of buyer's default, or two thousand five hundred dollars (\$2,500), whichever is greater, together with any court or litigation costs incurred by Seller in collecting the account debt arising under this contract.

#### LIMITATION OF WARRANTIES AND DAMAGES:

Seller expressly warrants the goods sold under this contract will be as described in this contract. ALL OTHER WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. Purchaser's remedy for breach shall be limited to replacement of the goods sold or to a return of the goods and a refund of their purchase price, at Purchaser's option, which shall be the Purchaser's sole remedy in the event of Seller's breach in the performance of this contract. Seller shall not be liable for any consequential or incidental damages for breach of any warranty.

☐ Project Checklist has been reviewed

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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	\$45,400.45
Sales Tax @ 6%	\$2,724.03
Non-taxable Subtotal	\$75.00
Total	\$48,199.48
Deposit Received	\$0.00
Amount Due	<b>\$63,436.04</b>



# The Home Depot Special Order Quote

Customer Agreement #: H2509-505307

Printed Date: 11/29/2022

**Customer:** LEZGIN MEHMETOGLU

**Address:** 8606 TRUMPS HILL RD  
AND NBSP  
UPPER MARLBORO, MD  
20772

**Phone 1:** 703-424-4791

**Phone 2:**

**Email:** LM@DILANINVESTMENTS.  
COM

**Store:** 2509

**Associate:** IMAN

**Address:** 7111 Westlake Terrace  
Bethesda, MD 20817

**Phone:** (301)634-3726

**Pre-Savings Total:** \$32,681.90

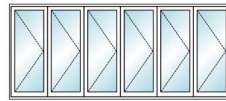
**Total Savings:** (\$0.00)

**Pre-Tax Price:** \$32,681.90

*All prices are subject to change. Customer is responsible for verifying product selections. The Home Depot will not accept returns for the below products.*



Catalog Version 216



RO Size = 196 3/4" x 84 3/4"

Unit Size = 196" x 84"

Line Number	Item Summary	Was Price	Now Price	Quantity	Total Savings	Total Price
100-1	Frame: 6 9/16", White Exterior/ Primed Interior Version:10/07/2022	\$2,520.36	\$2,520.36	1	\$0.00	\$2,520.36
100-2	Insect Screen 1: Contemporary Clad Wood Folding Outswing Door, AFOCD Frame Head and Sill Retractable White w/Charcoal Mesh Version:10/07/2022	\$1,037.09	\$1,037.09	1	\$0.00	\$1,037.09
100-3	Insect Screen 2: Contemporary Clad Wood Folding Outswing Door, AFOCD Side Jamb Retractable White w/Charcoal Mesh Version:10/07/2022	\$4,148.42	\$4,148.42	1	\$0.00	\$4,148.42
100-4	Slab 1 32 3/16" X 79 21/32" AFOCD 6R White/ Pine/ Unfinished Low-E4 Tempered Argon Filled Satin Stainless Steel Hinge	\$3,993.44	\$3,993.44	1	\$0.00	\$3,993.44
100-5	Slab 2 32 3/16" X 79 21/32" AFOCD 6R White/ Pine/ Unfinished Low-E4 Tempered Argon Filled Satin Stainless Steel Hinge	\$3,993.44	\$3,993.44	1	\$0.00	\$3,993.44
100-6	Slab 3 32 3/16" X 79 21/32" AFOCD 6R White/ Pine/ Unfinished Low-E4 Tempered Argon Filled	\$3,993.44	\$3,993.44	1	\$0.00	\$3,993.44
100-7	Slab 4 32 3/16" X 79 21/32" AFOCD 6R White/ Pine/ Unfinished Low-E4 Tempered Argon Filled	\$3,993.44	\$3,993.44	1	\$0.00	\$3,993.44
100-8	Slab 5 32 3/16" X 79 21/32" AFOCD 6R White/ Pine/ Unfinished Low-E4 Tempered Argon Filled Satin Stainless Steel Hinge	\$3,993.44	\$3,993.44	1	\$0.00	\$3,993.44
100-9	Slab 6 32 3/16" X 79 21/32" AFOCD 6R White/ Pine/ Unfinished Low-E4 Tempered Argon Filled Satin Stainless Steel Hinge	\$3,993.44	\$3,993.44	1	\$0.00	\$3,993.44
<b>Unit 100 Total:</b>		<b>\$31,666.51</b>	<b>\$31,666.51</b>		<b>\$0.00</b>	<b>\$31,666.51</b>

Begin Line 100 Descriptions

---- Line 100-1 ----

Contemporary Clad Wood Folding Outswing Door  
Overall Rough Opening = 196 3/4" x 84 3/4"  
Overall Unit = 196" x 84"  
Installation Zip Code = 20814  
U.S. ENERGY STAR® Climate Zone = North Central  
Exterior Finish = Clad Wood  
Sill Type = On-Floor Drainage  
Sill Color/Finish = Gray - Painted  
Number of Panels = 6 Panel  
Frame Depth = 6 9/16"  
Venting / Handing = 6R  
Stile Width = 3 11/16"  
Bottom Rail Height = 4 11/16"  
Panel Thickness = 2 1/4"  
Glass Stop Profile = Ovolo  
Exterior Frame Color = White  
Exterior Frame Color Performance = 2605  
Exterior Sash / Panel Color = White  
Exterior Sash / Panel Color Performance = 2605  
Interior Frame Wood Species = Pine  
Interior Frame Finish Color = Primed  
Interior Sash / Panel Wood Species = Pine

Interior Sash / Panel Finish Color = Unfinished  
Patio Door Assembly = Unassembled  
Glass Construction Type = Dual Pane  
Glass Option = Low-E4  
High Altitude Breather Tubes = No  
Glass Strength = Tempered  
Glass Tint = No Tint  
Specialty Glass = None  
Gas Fill = Argon  
Glass / Grille Spacer Color = Stainless  
None  
Hardware Style = None  
Dimension to Center of Trim Set Handle = 36"  
from Bottom of Panel  
Hinge Finish/Color = Satin Stainless Steel  
Shoot Bolt Type = Concealed  
Shoot Bolt Hardware Color/Finish = Brushed  
Stainless Steel  
Temporary Construction Trim Set = None  
Insect Screen Type = Full Screen  
Insect Screen Frame Type = Retractable  
Insect Screen Configuration = Double Screen  
Insect Screen Location = Interior

Insect Screen Color = White  
Insect Screen Mesh Color = Charcoal  
Insect Screen Sill Finish Color = Clear Anodized  
Threshold = None  
Exterior Trim Style = None  
Extension Jamb Type = None  
FSC Certified Wood = No  
Re-Order Item = No  
Room Location =  
Unit U-Factor = ---  
Unit Solar Heat Gain Coefficient (SHGC) = ---  
Unit CPD Number = ---  
U.S. ENERGY STAR Certified = No  
Clear Opening Width = 178.608  
Clear Opening Height = 78.768  
Clear Opening Area = 97.6986  
SKU = 1005197511  
Vendor Name = S/O ANDERSEN LOGISTICS  
Vendor Number = 60509030  
Customer Service = (888) 888-7020  
Catalog Version Date = 10/07/2022

---- Lines 100-2 to 100-9 have the same description as line 100-1 ----

End Line 100 Descriptions



Catalog Version 255



Call Width: 36"  
Call Height: 80"  
Frame Width: 37-3/4"  
Frame Height: 81-3/4"

Line Number	Item Summary	Was Price	Now Price	Quantity	Total Savings	Total Price
200-1	37.75x81.75 Stile & Rail Single Door Unit Left Inswing	\$1,015.39	\$1,015.39	1	\$0.00	\$1,015.39
Unit 200 Total:		\$1,015.39	\$1,015.39		\$0.00	\$1,015.39

Begin Line 200 Description

---- Line 200-1 ----

JELD-WEN Entry Wood Single Door Unit  
Overall Frame Size = 37 3/4" x 81 3/4"  
Overall Rough Opening Size = 38 3/4" x 82 1/2"  
Room Location = basement entry door  
Is This a Remake = No  
Specific Information = Not Specified  
Building Code = Non-Certified  
Door Order Method = Store Delivery  
Handing & Swing = Left Inswing  
Sill / Threshold Type = Adjustable  
Call Width = 36"  
Call Height = 80"  
Unit Type = Pre-Hung  
Door Type = Doors with Glass  
Door Thickness = 1 3/4"  
Door Wood Species = Hemlock  
Door Design Stile & Rail = 2-Panel 1/2 Lite  
Door Stile & Rail Panel Thickness = 1 1/8" Single  
Hip Raised Panel  
Moulding/Sticking Options = 1/2 Ovolo

Door Stile & Rail Glass Option = Non-Decorative  
Door Stile & Rail Glass = 1-Lite  
Door Stile & Rail Glass Caming = None  
Door Stile & Rail Glazing Type = Insulated  
Door Stile & Rail Glass Texture/Privacy = Clear  
Door Stile & Rail Insert Grille = None  
Jamb Cladding = No  
Jamb Width = 4 9/16"  
Jamb Finish Type = None  
Jamb Specie = Primed Auralast  
Brickmould Specie = None  
Weather-Strip Type = Compression Bronze  
Sill Pan = Yes  
Lockset Type = Operating Lever  
Lockset Finish = Satin Nickel  
Kickplate Installed = None (Standard)  
Sill Width = 5 5/8"  
Sill Finish = Aluminum with Vinyl Cap  
Door Bore = Double Bore  
Bore Backset = 2 3/8"

Bore Diameter = 2 1/8"  
Lockset Bore Position = 44  
Dead Bolt Bore Position = 5 1/2"  
Include Lockset = Yes  
Hinge Prep = 3-Hinge Prep  
Hinges Included = Yes  
Hinge Size = 4" x 4"  
Hinge Type = Ball Bearing w/Safety Stud  
Hinge Radius = 5/8" Radius  
Hinge Finish = Satin Nickel  
First Hinge Position = 6 3/4"  
Second Hinge Position = 36"  
Third Hinge Position = 65 1/4"  
U-Factor = 0  
Solar Heat Gain Coefficient = 0  
SKU = 114979  
Vendor Number = 60075920  
Manufacturer = JELD-WEN, Pottsville (UV)  
Catalog Version = 22.3.3.0







# Limited Warranty

Andersen  
Folding  
Outswing Doors  
**OWNER2OWNER  
LIMITED WARRANTY**

Para ver la versión, en español, de esta Garantía limitada y Proceso de resolución de controversias, visite [andersenwindows.com](http://andersenwindows.com)

## LIMITED WARRANTY AND DISPUTE RESOLUTION PROCESS

IMPORTANT: Please carefully read the Dispute Resolution Process that appears in this document after the Limited Warranty. The Dispute Resolution Process includes class action and jury trial waivers that affect your legal rights. To opt out of these waivers, you must visit our website at [www.andersenwindows.com/optout](http://www.andersenwindows.com/optout) and complete the opt-out form within one year from the date of purchase of your Andersen® products from a dealer or retailer. The opt-out only applies to the terms of the Dispute Resolution Process.

### Andersen® Folding Outswing Doors Limited Warranty

#### Transferable Limited Warranty on Glass

The glass in Andersen® factory glazed doors (including dual-pane glass, High-Performance Low-E4® glass, High-Performance Low-E4® Sun glass, High-Performance Low-E4® SmartSun™ glass, High-Performance Low-E4® PassiveSun® glass, HeatLock® glass, Low-E glass, patterned glass, Finelight™ grilles, divided light grilles and tempered versions of these glass options) is warranted to be free from defects in manufacturing, materials and workmanship for a period of twenty (20) years from the date of purchase from the retailer/dealer. It is also warranted not to develop, under normal conditions, any material obstruction of vision or stress cracks resulting from manufacturing defects or as a result of premature failure of the glass or organic seal for a period of twenty (20) years from the date of purchase from the retailer/dealer. Patterned glass (including obscure, fern, reed, and cascade designs) is warranted not to develop, under normal conditions, any material change in appearance or stress cracks resulting from manufacturing defects or as a result of premature failure of the glass or organic seal for a period of twenty (20) years from the date of purchase from the retailer/dealer. This limited warranty on glass does not apply to special order glazings, discontinued glass, Andersen® art glass, insulated art glass, impact-resistant glass or glass that is not factory installed by Andersen.

In the event a glass failure occurs as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) provide the appropriate replacement glass product to the Andersen retailer/dealer you specify — labor is not included; (2) provide a factory-authorized repair to the existing glass at no cost to you; or (3) refund the original purchase price. Such replacement parts or repair are warranted for the remainder of the original limited warranty period.

#### Transferable Limited Warranty for Andersen Folding Outswing Door Products with Stormwatch® Protection (Glazed with Impact-Resistant Glass)

Andersen® door units glazed with impact-resistant glass are warranted to be free from defects in manufacturing, materials and workmanship for ten (10) years from the date of purchase from the retailer/dealer. The glass in Folding Outswing doors with impact-resistant glass is also warranted not to develop, under normal conditions, any material obstruction of vision or stress cracks resulting from manufacturing defects or as a result of premature failure of the glass or organic seal for ten (10) years from the date of purchase from the retailer/dealer. This limited warranty does not apply to special glazings, discontinued glass, and glass that is not factory installed by Andersen, and the finish on bright brass or satin nickel door hardware.

In the event a component fails as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) provide replacement parts to the Andersen retailer/dealer you specify —

installation labor is not included; or (2) provide a factory authorized repair to the existing component at no cost to you; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

#### Transferable Limited Warranty on Components Other Than Glass

Non-glass portions of Andersen® doors (including non-electric operators, locks, lifts, hinges, handles, weatherstripping, exterior trim, panel and frame members) are warranted to be free from defects in manufacturing, materials and workmanship for a period of ten (10) years from the date of purchase from the retailer/dealer. This limited warranty does not apply to finishes on satin nickel door hardware.

In the event a component other than glass fails as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) provide replacement parts to the Andersen retailer/dealer you specify — labor is not included; (2) provide a factory-authorized repair to the existing component at no cost to you; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

#### Transferable Limited Warranty on Exterior Painted Aluminum Surfaces

The exterior painted aluminum surface (silicone polyester enamel with Kynar® fluorocarbon coating system conforming to AAMA 2605-05 ("2605 Coating System")) on components including frame, panel and grilles on Andersen folding doors in standard colors is warranted not to crack, chip, peel, flake, blister or lose adhesion for a period of twenty (20) years from the date of purchase from the retailer/dealer when exposed to normal atmospheric conditions. The paint film is warranted to be free from manufacturing defects resulting in color fade greater than 5 delta E<sup>^</sup> (Hunter) in accordance with ASTM D2244-16e1 and chalking in excess of a number eight (8) rating based on ASTM D4214-07 for a period of twenty (20) years from the date of purchase from the retailer/dealer when exposed to normal atmospheric conditions.

In the event a failure occurs as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) refinish the product (the finish will be performed with standard commercial refinishing techniques and will not necessarily be the same finish as originally applied to the product); (2) repair the product or provide replacement part(s) or product(s) — labor is not included; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

Exclusions: Accessories and hardware, including patio door sills, hinges, handle trim sets and lock components, exterior trim profiles, exterior aluminum coil stock, anodized finishes and patio door insert panels. Products subjected to the detrimental effects of air pollutants, chemical or caustic washes, or the accumulation of concentrated salt deposits are not covered by the terms of this limited warranty. Any scratches, chips or surface damage that would expose the aluminum cladding surface must be repaired immediately, and such repair is required to maintain limited warranty coverage.

Paint performance may vary based on product orientation, altitude, installation in heavy salt spray environments, and other atmospheric conditions. Regular maintenance of the product is required to maintain the appearance of the finish on clad units, including hardware, and is required to maintain limited warranty coverage.

^Technical measurement of color fade.

#### Transferable Limited Warranty on Exterior Anodized Aluminum Surfaces

The anodized finish on Andersen folding doors aluminum cladding in standard colors is warranted not to crack, craze, flake or blister for a period of five (5) years from the date of purchase from the retailer/dealer when exposed to normal atmospheric conditions. The anodized finish is also warranted against chalking in excess of a number eight (8) rating as determined by the procedure outlined in ASTM D4214-07 and against color change greater than 5 delta E<sup>^</sup> (Hunter) as determined by ASTM method D2244-16e1 for a period of five (5) years from the date of manufacture.

In the event a failure occurs as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) refinish the product (the finish will be performed with standard commercial refinishing techniques and will not necessarily be the same finish as originally applied to the product); (2) repair the product or provide replacement part(s) or product(s) — labor is not included; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

^Technical measurement of color fade.



## Limited Warranty on Exterior Painted Aluminum Surfaces

### – 2605 Coating Systems for Coastal Seashore

The paint film (silicone polyester enamel with Kynar® fluorocarbon coating system conforming to AAMA 2605-05) on Andersen aluminum cladding in standard colors is warranted not to crack, check, peel, flake, blister or lose adhesion from the date of manufacture for product exposed to high salt concentrations as follows:

— Products installed between two (2) miles and 1,001 feet from the coastal seashore are warranted for ten (10) years from the date of purchase from the retailer/dealer. In the event a failure covered under this limited warranty occurs, Andersen, at its option, will: (1) refinish the product (the finish will be performed with standard commercial refinishing techniques and will not necessarily be the same finish as originally applied to the product); or (2) repair the product or provide replacement part(s) or product(s) – labor is not included; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

— Products installed between 1,000 feet and the seashore are warranted for ten (10) years from the date of purchase from the retailer/dealer, prorated after five (5) years. In the event a failure covered under this limited warranty occurs in years one (1) through five (5), Andersen, at its option, will: (1) refinish the product (the finish will be performed with standard commercial refinishing techniques and will not necessarily be the same finish as originally applied to the product); or (2) repair the product or provide replacement part(s) or product(s) – labor is not included; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period. In the event a failure occurs in years six (6) to ten (10), Andersen, at its option, will: (1) refinish the product (the finish will be performed with standard commercial refinishing techniques and will not necessarily be the same finish as originally applied to the product) at 50% discount of Andersen's cost; or (2) repair the product at 50% discount of Andersen's labor costs or provide replacement part(s) or product(s) at 50% discount of Andersen's cost – labor is not included; or (3) refund the original purchase price at 50% of the original purchase price. Such replacement parts or repairs are warranted for the remainder of the limited warranty period.

The paint film is warranted against chalking in excess of a number eight (8) rating based on ASTM D4214-07 and against color change greater than 5 delta E\* (Hunter) in accordance with ASTM D2244-16e1 for a period of ten (10) years from the date of purchase from the retailer/dealer. In the event a failure covered under this limited warranty occurs, Andersen, at its option, will: (1) refinish the product (the finish will be performed with standard commercial refinishing techniques and will not necessarily be the same finish as originally applied to the product); or (2) repair the product or provide replacement part(s) or product(s) – labor is not included; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the limited warranty period.

Exclusions: Products subjected to the detrimental effects of air pollutants, chemical or caustic washes, or the accumulation of concentrated salt deposits are not covered by the terms of this limited warranty. Any scratches, chips or surface damage that would expose the aluminum cladding surface must be repaired immediately and such repair is required to maintain limited warranty coverage.

For limited warranty coverage coastal seashore (areas of high salt concentration), such as those within two (2) miles of the coastal environments, homeowners must implement a systematic fresh water-cleaning program which consists of cleaning with mild soap and water at least every three (3) months or more often when necessary to prevent the accumulation of concentrated salt deposits. Periodic waxing with an automotive-type wax may prolong the finish life. Failure to take these measures will void this limited warranty.

The atmospheric and environmental conditions within two (2) miles of the coastal seashore can be extremely corrosive. Even with a systematic cleaning program, products installed in these conditions will typically deteriorate more than product installed in normal atmospheric/ environmental conditions. Some corrosion and/ or deterioration are considered "normal wear and tear" and normal weathering in this atmospheric/environmental condition and are not covered under this limited warranty.

^Technical measurement of color fade.

### No Other Warranties or Representations

**THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALL WARRANTIES ARE LIMITED TO THE APPLICABLE STATUTE OF LIMITATIONS, BUT IN NO CASE**

**WILL EXTEND BEYOND THE LIMITED WARRANTY PERIODS SPECIFIED ABOVE. ANDERSEN EXCLUDES AND WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF CONTRACT, TORT OR OTHERWISE. THE REMEDY OF REPAIR, REPLACEMENT OR REFUND OF THE ACTUAL PURCHASE PRICE OF THE PRODUCT PROVIDED BY THIS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSS OR DAMAGE.**

### Applicable Law

This Limited Warranty is only applicable in the U.S.A. (i.e., the fifty states and the District of Columbia). This Limited Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation of the duration of an implied warranty, so the above limitations or exclusions may not apply to you. If any specific term of this Limited Warranty is prohibited by any applicable law, it shall be null and void, but the remainder of this Limited Warranty shall remain in full force and effect.

### What is NOT covered by this Limited Warranty: Specific Additional Exclusions

In addition to any other limitations or exclusions in this Limited Warranty, Andersen shall have no obligation for product failure, damage or costs due to or related to the following:

- Product modifications or glass shading devices (e.g., glass tinting, security systems, improper painting or staining, insulated coverings, etc.).
- Units improperly assembled or improperly mulled by others.
- Failure due to the application of hardware not offered by Andersen (e.g., locksets, trim sets, hinges, panic hardware, closers, etc.).
- Failure to properly install Andersen hardware and/or exterior trim.
- Failure to remove protective film within recommended time frames.
- Adjustments or corrections due to improper installation.
- Improper installation or use, including use of a non-commercial door as a main entrance or exit door for a building other than a single-family residential unit or re-installing an Andersen window or door after it has been removed from a building and re-sold and/or re-installed in a different building.
- Exposure to conditions beyond published performance specifications.
- Water infiltration other than as a result of a defect in manufacturing, materials or workmanship.
- Condensation.
- Improper maintenance, such as use of brick wash, razor blades, sealants, sanding or improper washing.
- Failing to properly seal and maintain the exposed wood portions of a product. This includes, but is not limited to, the exposed wood on all sides of a door panel (e.g., exterior, interior, top, bottom, and both sides), a door frame and wood grilles.
- Obtaining safe and reasonable access to the product.
- Chemicals or airborne pollutants, such as salt or acid rain.
- Delivery by others.
- Accidents.
- Acts of God.
- Normal wear and tear.

### Additional items excluded from this limited warranty:

- Labor to replace door panels, glass or other components.
- Labor and other costs related to the removal and disposal of defective product.
- Labor and materials to paint or stain any repaired or replaced product, component, trim or other carpentry work that may be required.
- Products not manufactured by Andersen.
- The performance of the low-maintenance exterior glass coating on products with High-Performance Low-E4® glass. Performance will vary depending on environmental conditions.
- Minor warping of clad-wood doors. Andersen may defer actions on any claim for warping for a period of up to twelve (12) months from the date of the claim in order to permit conditioning and equalization to humidity and temperature conditions.

- Slight glass curvature, minor scratches or other imperfections in the glass that do not impair structural integrity or significantly obscure normal vision.
- Rattling of grille bars within an air space.
- The appearance of anodized finishes is the result of a naturally forming process which makes each unit one-of-a-kind. The process may result in an inconsistent color and/or finish, which is a feature of the finish and not considered a defect in manufacturing.
- Tarnish or corrosion to hardware finishes.
- Stress cracks as a result of improper installation.
- Broken glass.
- Special glazings. Contact us concerning the limited warranty on special glazings.
- Satin nickel finish on door hardware. Contact us or refer to the specific limited warranties for these products.
- Other product series, some products, and accessories have their own limited warranties and are not covered by this limited warranty.  
Visit [www.andersenwindows.com/warranty](http://www.andersenwindows.com/warranty) for more information.
- Service trips to provide instruction on product use.

### How to register your Owner-To-Owner® Limited Warranty

Andersen offers quick, easy warranty registration on our website. Just go to [www.andersenwindows.com/warranty](http://www.andersenwindows.com/warranty) and submit your warranty information online. By registering, you will expedite any warranty service you may have in the future. In addition, you can receive product information updates, safety notices and special offers regarding new products, as well as information regarding enhancements for the windows and doors you've registered. All warranty information is treated confidentially and will not be sold or traded to any person or organization outside of Andersen and the Andersen Dealer Network.



### Warranty Claim Procedure

To make a claim under this Limited Warranty, contact the Andersen retailer/dealer who sold you your Andersen® product. Or, you may contact us at:

Andersen Windows, Inc./Andersen Service Center  
100 Fourth Avenue North  
Bayport, MN 55003-1096

You may also contact us using the Parts & Service section of our website at [www.andersenwindows.com](http://www.andersenwindows.com) or reach us by phone at 1-888-888-7020.

### You can help us serve you faster by providing the following important information:

- Description of the product such as the exterior color, unit type and size and inside visible glass measurements.
- Glass logo information etched in the inside corner of the glass.
- Description of product concerns.
- Documentation of the purchase date, if available.
- Your name, address (with zip code) where the product is installed and telephone numbers.

Contact the Andersen retailer/dealer who sold you your Andersen product prior to installation if you observe an issue with your unit.

### Non-Warranty Repair

You will be responsible for all costs related to any repair that is not covered by this Limited Warranty or which is outside of the limited warranty period. When warranty coverage is unclear, Andersen may charge an inspection fee for any on-site product inspection. If the inspector determines the Andersen® product has a defect covered by this Limited Warranty, the inspection fee will be waived.

For specific warranty information outside the United States, please contact your local distributor or write to:

Andersen Windows, Inc. / International Division  
100 Fourth Avenue North  
Bayport, MN 55003-1096

## DISPUTE RESOLUTION PROCESS

### General

If you are dissatisfied with the remedy provided to you under the Limited Warranty set forth above or have any other claim against Andersen related to your Andersen products, you and Andersen agree to resolve the claim using the following process ("Dispute Resolution Process"). This Dispute Resolution Process will apply to claims of any nature relating to your Andersen product ("Dispute(s)"). Disputes include, but are not limited to, claims for breach of contract or breach of warranty, claims for violation of state or federal laws or regulations, claims based in tort, negligence or product liability, claims based in fraud or fraud in the inducement, marketing or advertising claims and claims related to the enforceability or effect of any term of the Limited Warranty or the Dispute Resolution Process, including, but not limited to, the waivers of class action and jury trials.

### Notice Required

To assert a Dispute, you must first provide Andersen with written notice. A Notice of Dispute form is available for your use on Andersen's website at [www.andersenwindows.com/noticeofdispute](http://www.andersenwindows.com/noticeofdispute).

### Andersen Response

Andersen will have 60 days from receipt of your Notice of Dispute to respond to you in writing. In that response or at any later time, Andersen may make one or more written offers to you to resolve your Dispute.

### No Class Action or Jury Trials

**YOU AGREE THAT YOU MAY ASSERT DISPUTES AGAINST ANDERSEN ONLY ON AN INDIVIDUAL BASIS AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY CLASS OR REPRESENTATIVE ACTION OR PROCEEDING. AS PART OF THIS DISPUTE RESOLUTION PROCESS, YOU AND ANDERSEN ALSO AGREE TO WAIVE ANY RIGHT TO A JURY AND AGREE TO HAVE ALL DISPUTES HEARD AND DECIDED SOLELY BY THE FEDERAL OR STATE COURT JUDGE.**

### Opt-Out Procedure

You may opt out of this Dispute Resolution Process by completing and submitting a written Opt-Out Notice. The Opt-Out Notice is located on Andersen's website at [www.andersenwindows.com/optout](http://www.andersenwindows.com/optout). Whether or not you opt out of the Dispute Resolution Process, all terms of the Limited Warranty set forth above remain in force and effect.

### Applicable Law and Severability

This Dispute Resolution Process, including, but not limited to, issues related to its enforceability and effect, will be governed by the laws of the State of Minnesota without regard to conflict of law principles. If any term of this Dispute Resolution Process is found to be invalid or unenforceable in any particular jurisdiction, that term will not apply to that issue in that jurisdiction. Instead, that term will be severed with the remaining terms continuing in full force and effect.

### Questions

If you have questions about the Dispute Resolution Process or Opt-Out Procedure, contact us at 844-332-7972.

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## Interior and Exterior Door Slab and System Limited Warranty

### OUR WARRANTY TO YOU...

JELD-WEN® Products<sup>1</sup> are designed to create lasting value for your home. This warranty is effective for JELD-WEN products manufactured on or after **June 1, 2019** for use in the United States and Canada. Any previous warranties will continue to apply to door products manufactured by JELD-WEN prior to this date. For additional information, including care and maintenance, information, refer to [www.jeld-wen.com](http://www.jeld-wen.com) or [www.jeld-wen.ca](http://www.jeld-wen.ca).

#### WHAT THIS WARRANTY COVERS

We warrant to the original owner<sup>2</sup> if your JELD-WEN Product exhibits a defect in material or workmanship within the time periods from the date of purchase as specified below, we will, at our option, repair, replace or refund the purchase price of the Product or component part. Skilled labor<sup>3</sup> (where deemed necessary by us) to repair or replace any component is provided for **one (1) year** from the date of purchase.

#### Owner-Occupied Single-Family Residence Limited Warranty

Door Slabs: Except as set forth below, we warrant our door slabs, including any glass inserts, miscellaneous hardware, and accessories provided and installed by us, as follows:

Door Slab	Coverage
Fiberglass Exterior Doors	As long as you own and occupy your residence
Steel Exterior Doors	Ten (10) years
Wood Exterior Doors	Five (5) years
Interior MDF Doors	Ten (10) years
All Other Interior Doors	Five (5) years

**Factory Prefinish:** We warrant the factory-applied prefinish on our doors against peeling, checking, or cracking for periods listed below. Should the factory prefinish be proven defective, we will at our option, replace or refinish the door or pay up to the credit indicated per opening to the current owner. (Note: this coverage applies to factory-applied finish coat options only; standard factory-applied primer is not a finish coat.)

Product	Coverage	Refinish Credit
Aurora® Fiberglass Doors	10 years	\$350 per opening
Other Fiberglass and Steel Doors	10 years	\$100 per opening
Custom Exterior Wood Doors	1 year	\$250 per opening
Custom Interior Wood Doors	1 year	\$150 per opening
All other Doors	1 year	\$100 per opening

**Door Frames:** We warrant our door frames for **one (1) year** from the date of purchase.

**AuraLast® Protection for Door Slabs and Frames:** Our AuraLast pine wood door slabs will be free from wood decay and/or termite damage for **twenty (20) years** from the date of initial purchase. Our AuraLast pine door frame components will be free from wood decay and/or termite damage for **as long as the original consumer owns the home** in which the AuraLast wood frames are originally installed. Warranty coverage outside Canada, the contiguous 48 states and Alaska is contingent upon approval from the JELD-WEN Customer Care Department. Please contact us.

**Severe Weather® Glass:** We warrant each Severe Weather glass unit for **ten (10) years**.

**Retractable Screens:** We warrant retractable roll screens for **five (5) years**.

**Stress Cracks:** Applies to sealed glass units installed in exterior doors. Laminated glass and special glazings are excluded. Coverage for **one (1) year** includes replacement glass and skilled labor<sup>3</sup> necessary to replace the glass. Stress cracks occur when, in the first year after manufacture, the glass develops a crack without sign of impact.

#### Commercial Limited Warranty (Other than Owner-Occupied Single-Family Residence)

**All Door Slabs, Components, Prefinishes, and Options:** Warranty coverage is the lesser of **five (5) years** from the date of purchase or the period indicated above for Owner-Occupied Single-Family Residences.

#### Transferability

This warranty is not transferable.

*Continued on next page*

## HOW TO GET ASSISTANCE

If you have a problem with your JELD-WEN Door, immediately upon discovery, contact the distributor or dealer from whom you purchased our product or contact us directly:

### In the United States:

Mail: JELD-WEN Customer Care  
Attn: Door Warranty Claims  
P.O. Box 1329, Klamath Falls, OR 97601  
Phone: 800-JELD-WEN (800-535-3936)  
Fax: 800-436-5954  
Email: CustomerServiceAgents@jeld-wen.com  
Web: www.jeld-wen.com/contact-us

### In Eastern Canada:

Mail: JELD-WEN Service Department  
90, rue Industrielle  
Saint-Appollinaire, Quebec, Canada G0S 2E0  
Phone: 800-463-1930  
Fax: 888-998-1599

### In Western Canada:

Mail: JELD-WEN Service Department  
550 Munroe Avenue  
Winnipeg, Manitoba, Canada R2K 4H3  
Phone: 888-945-5627  
204-668-8230  
Fax: 204-663-1072  
Email: wpgservice@jeld-wen.com

We can respond quickly and efficiently if you provide the following: a) date and location of purchase, or product

identification from the tag on the top edge of the slab, b) how to contact you, c) the address where the product can be inspected, and d) a description of the apparent problem and the product (photographs are helpful).

### What We Will Do

Upon receiving your notification, we will send out an acknowledgement within three business days to the contact, which you have provided. We will investigate your claim and will begin to take appropriate action within 30 days after receipt of notification. If your warranty claim is denied, we may charge an inspection fee for an onsite inspection that is required or requested by you.

If your claim is approved, and we choose to repair or replace the product or a component of the product, the replacement product/component will be provided in the same specification as the original product or its nearest equivalent current product. Replacement products, components and services are warranted for the balance of the original product or service warranty, or 90 days, whichever is longer.

If the claimed nonconformity is warp of a door slab, we may defer repairing or replacing the door slab for a period up to 12 months from the date of claim. It is not uncommon for a temporary warp condition to occur as the door slab adjusts to local humidity and temperature conditions. This deferral will not be counted against the warranty period.

Product Purchase Date: \_\_\_\_\_

Order Number: \_\_\_\_\_

## WHAT THIS WARRANTY DOES NOT COVER

JELD-WEN manufactures and sells both individual door slabs and complete door systems. This warranty does not cover parts or components (e.g., locksets, handles, etc.) not sold by JELD-WEN to the original owner. See your distributor or dealer regarding the warranty on the entire door system and/or these other components.

JELD-WEN is not liable for damage, product failure or poor product performance due to:

- Normal wear and tear, including normal wear and tear of weatherstrip; and natural weathering of surfaces. Variations in the color or texture of wood or finish; surface cracks that are less than 1/32" in width and/or 2" in length; for knotty alder and juniper: surface checks that are less than 1/8" in width and/or 5" in length, and knot placement, quantity, or size.
- Normal wear and tear to hardware and naturally occurring changes to hardware finishes (e.g., corrosion or tarnishing).
- Misuse or abuse; failure to follow the care and maintenance instructions.
- Alteration or modification of the Product (e.g. customer applied peepholes, mail slots, security systems).
- Any cause beyond our reasonable control (e.g. fire, flood, earthquake, other acts of nature, and acts of third parties outside of our control).
- Failure to provide an adequate overhang for exterior doors; damage caused by extreme temperature buildup where storm doors are present. For general guidelines, see our "Appropriate Protection for Exterior Doors" in our product literature or at [www.jeld-wen.com/resources](http://www.jeld-wen.com/resources); for specific information pertaining to your structure, consult your contractor or other building professional.
- Improper installation not in conformance with JELD-WEN installation instructions (note: see [www.jeld-wen.com](http://www.jeld-wen.com) for current installation instructions); operational problems and problems related to water and/or air infiltration/leaking as a result of improper installation or flaws in building design or construction.
- Installation into a condition that exceeds product design standards and/or certified performance specifications and/or is not in compliance with building codes.
- Improper field finishing of all surfaces (front and back) and edges (top, bottom, and sides) of the door slab and frame (See our Finishing Instructions at [www.jeld-wen.com/resources](http://www.jeld-wen.com/resources)); variation or unsatisfactory results in sheen or texture resulting from the field application of paint or any other finishing material.
- Bow or misalignment in the frame or jamb in which the door slab is hung (if such is purchased from JELD-WEN unmachined and not prehung).
- Wood decay for wood components other than of AuraLast pine; and wood decay for any wood

*Continued on next page*



components (including pine) that come in direct contact with soil. Note: superficial mold/mildew does not indicate wood decay.

- Structural integrity issues or other problems caused by improper field fitting of the hardware, improper sizing of the door slab, or other assembly problems.

JELD-WEN is also not liable for:

- Warp for any 3'6" wide by 8'0" high by 1 3/4", or smaller door slab, which does not exceed 1/4" in the plane of the door slab itself; door slabs wider and/or higher are not guaranteed for warp.
- Slight expansion or contraction due to varying environmental conditions; slab movement (shrinkage or swelling) of 1/4" or less due to temperature and humidity, consult our Care & Maintenance documents on how to work with this natural movement.
- Screen damage due to normal wear and tear, misuse, abuse, or insect or animal activity.
- Discoloration or rusting of decorative metal accent options, such as grilles, clavos, straps, etc.; discoloration of wood sills provided by us.
- Hardware, accessories or inserts that are not provided by us.
- Condensation or damage as a result of condensation (Note: unless due to insulating glass failure, most condensation problems are related to excessive humidity levels in a structure; contact a heating/air conditioning specialist for help).
- Slight imperfections or wavy distortions in the glass that don't impair structural integrity. Note: wavy distortions in the glass (e.g. related to laminate interlayer or heat strengthening of glass) are not considered a defect. Slight color variations in glass are not considered a defect.
- Labor and materials for repainting or refinishing activities or the removal or disposal of defective product(s); labor exceeding the time periods specified above.
- Incidental or consequential damage. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so this may not apply to you.

**Important Legal Information -- Please read this carefully. It affects your rights.**

This Limited Warranty document sets forth our maximum liability for our products. We shall not be liable for special, indirect, consequential, or incidental damages. Your sole and exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever shall be as specified above. We make no other warranty or guarantee, either express or implied, including implied warranties of merchantability and fitness for a particular purpose to the original purchaser or to any subsequent user of the Product, except as expressly contained herein. In the event state or provincial law precludes exclusion or limitation of implied warranties, the duration of any such warranties shall be no longer than, and the time and manner of presenting any claim thereon shall be the same as, that provided in the express warranty stated herein. This Limited Warranty document gives you specific legal rights, and you may have other rights that vary from state/province to state/province.

Any dispute, controversy or claim arising out of or relating to this warranty, any alleged breach thereof, or the use or sale of the products to which this warranty applies shall be resolved by mandatory and binding arbitration administered by the American Arbitration Association in accordance with its commercial arbitration rules. Any ensuing arbitration will be venued in Charlotte, North Carolina. Original purchaser agrees that they may assert claims against JELD-WEN in their individual capacity only, and not as a plaintiff or class member in any purported class action proceeding. This warranty shall be interpreted in accordance with the laws of North Carolina (excluding North Carolina's conflict of laws principles). This warranty shall be interpreted in accordance with the laws of Oregon (excluding Oregon's conflict of laws principles). If any provision of this warranty is deemed illegal or unenforceable in a judicial proceeding, that provision shall be severed and excluded, and the remainder of this warranty shall continue in force. Rejection of these dispute resolution provisions must be sent to JELD-WEN at the address provided herein within thirty (30) days of original purchaser's receipt of the Products to which this warranty applies.

No distributor, dealer or representative of JELD-WEN has the authority to change, modify or expand this warranty. The original purchaser of this Product acknowledges that they have read this warranty, understand it and are bound by its terms and agrees to provide this warranty to the original owner of the structure into which the Product is installed.

<sup>1</sup>"JELD-WEN Products" shall refer to interior and exterior door slabs and systems marketed under the JELD-WEN brand name for use in the United States and Canada. See our separate Export Warranty for applicable coverage on products used outside the United States and Canada.

<sup>2</sup>This warranty extends to the original owner (original owner means the contractor/dealer/distributor/purchaser and the initial owner of the structure where the product is initially installed) and is not transferable. The original purchaser of this product acknowledges that they have read this warranty, understand it and are bound by its terms and agrees to provide this warranty to the original owner of the structure into which the product is installed. Should state or provincial law preclude no transferability, then the warranty period is effective as applicable up to five (5) years from the date of initial purchase for door slabs and systems and one (1) year from the date of manufacture for the factory prefinish.

<sup>3</sup>"Skilled labor" refers to tasks where specialized technical knowledge, experience, methods or tools are required to properly identify, diagnose and/or correct product-related problems.





# Sustainable Roofing



## Majestic Slate



*Environmentally friendly synthetic slate roofing tiles proudly made in the USA*

*Pioneers of sustainable roofing since 1993*



# Majestic Slate

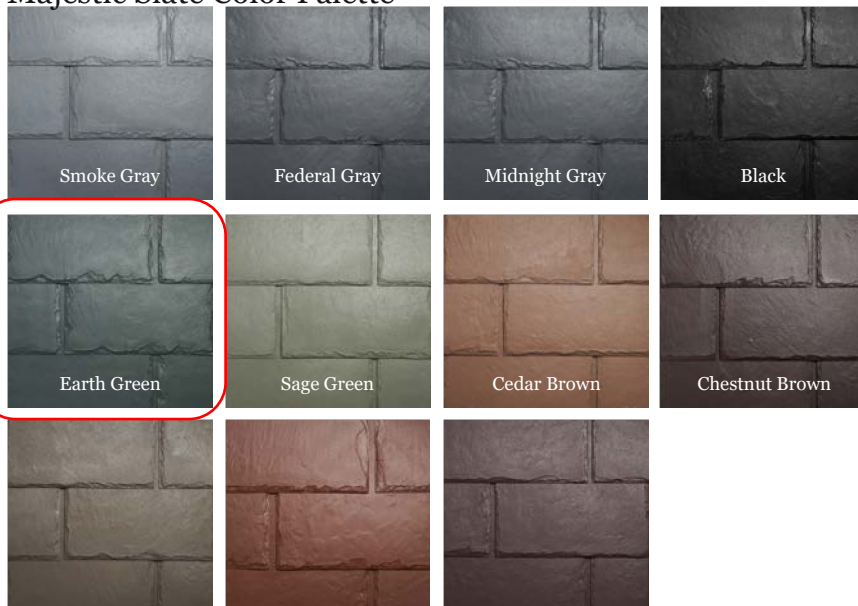


Historically, natural slate is one of the most appealing roofing choices, combining unmatched durability with aesthetic appeal. The cost of natural slate, as well as its weight and difficulty in finding a qualified slate installer, often makes its use prohibitive. EcoStar LLC, the leading manufacturer of premium synthetic steep-slope roofing products, combines classic appeal with modern technology to offer the lightweight and affordable alternative – Majestic Slate™.

Created with recycled rubber and plastics, Majestic Slate offers a sustainable, lighter and easy-to-install roofing product that provides the appearance of natural slate with lower application costs. Available in two widths and designer accents, this slate alternative offers endless possibilities for residential and commercial projects. The architectural detail of a project, whether historic or new construction, is further enhanced by a wide range of available color combinations using the palette of 11 standard color choices and array of custom options.

Curb appeal is everything when it comes to the look of your home, but protection from the elements must be a priority. Majestic Slate offers both.

## Majestic Slate Color Palette



Driftwood Brown

Stone Red

Mountain Plum

Note: Sample pieces, photographs or color samples may not accurately represent the true color level or variations of color blends that will appear on the roof. Before installation, ten tiles or so should be laid out and reviewed for conformity to desired color level. If color levels are unsatisfactory, advise your dealer before proceeding with installation. Colors and specifications subject to change without notice. EcoStar is not liable for color variations or shading. Tiles must be randomly blended for best results. Limited warranties carry terms and conditions. Significant property insurance discounts may be available when upgrading or building a roof to protect against hail, wind or fire damage in regions where severe weather is common. EcoStar tiles meet or exceed industry standards for Impact Resistance and Fire Resistance. Contact your insurance provider for details.

01/19 © 2019 by EcoStar LLC. EcoStar and Majestic Slate are trademarks of EcoStar LLC. See [www.ecostarllc.com](http://www.ecostarllc.com) for available warranties.  
P/N-602689 MAJESTIC SLATE CUT SHEET

## Advantages

- Weighs 1/3 to 1/2 as much as natural slate
- Easy application keeps installation costs down
- Significant property insurance discounts may be available when upgrading or building a roof to protect against hail<sup>1</sup>

## Architectural Flexibility

- Designer Series tiles can be blended together to add personal style to your home
- Staggered and offset installations accentuate roof texture and depth
- Available in 11 standard colors
- Enhance the historical look in both residential and commercial buildings

## Strength & Durability

- Provides superior durability and protection from extreme weather conditions that include wind, hail and driving rain
- Significant life cycle savings



## Warranty Options

- 50-Year Limited Material Warranty available
- 50-Year Gold Star Labor & Material Warranty available
- 90 mph (145 kph) Wind Warranty (standard)

## Environmental Sustainability

- Manufactured with post-industrial recycled rubber and plastics

## Technical Information

- UL listed Class C fire resistance (UL 790)
- UL Class 4 impact resistance (UL 2218)
- Wind resistance to 110 mph (ASTM D3161)
- Prolonged UV Exposure (ASTM G155)





42 Edgewood Drive  
Holland, NY 14080  
www.ecostarllc.com

## MAJESTIC SLATE™ ECOSTAR GOLD STAR ROOF SYSTEM

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## PART 1 – GENERAL

### 1.01 DESCRIPTION

- A. Furnish and install Majestic Slate tile roofing system as specified in the Contract Documents and roof plan.
- B. Furnish and install this Majestic Slate tile roofing system in strict accordance with specifications and drawings approved by EcoStar.
- C. Related Work
  - 1. Metal flashing work is not covered in this specification since EcoStar does NOT warrant metal flashing. EcoStar advises that metal flashing and securement of metal should be to industry standards (SMACNA) to prevent the metal from pulling free or buckling. EcoStar also suggests that all flashing metal be stainless steel or copper (see 3.03D).
  - 2. Roof ventilation products are not covered by the EcoStar Gold Star warranty. EcoStar advises that a ridge style venting system be utilized to ensure the best possible air movement and to provide the best aesthetic appearance to the roofing system. If a ridge ventilation system is not to be used on the project, another form of ventilation may be used.

### 1.02 QUALITY ASSURANCE

- A. To qualify for an EcoStar Gold Star warranty, an authorized EcoStar Gold Star applicator must install system.
- B. There shall be no deviation made from this specification without written approval from EcoStar prior to the start of the roofing project.
- C. For an EcoStar Gold Star warranty, upon completion of the installation, an inspection must be conducted by a Field Service Representative of EcoStar to ascertain that the roofing system has been installed according to EcoStar's published specifications and details at time of bid. This inspection is not intended to be a final inspection for the benefit of the owner, but for the benefit of EcoStar to determine whether a warranty shall be issued.
- D. It is the Authorized Gold Star Applicator's responsibility to adhere to all applicable building codes (local and national) and to have or acquire the appropriate licenses and permits for the roofing system installation requirements and limitations in their local areas applicable at the time of the bid.
- E. Specific testing requirements:
  - 1. Class C Fire Resistance – UL 790 Test Standard
  - 2. Class 4 Impact Resistance – UL 2218 Test Standard
  - 3. ASTM D3161 – 110 mph Wind Test

### 1.03 SUBMITTALS

- A. Submit an “EcoStar Gold Star Pre-Project Survey” to EcoStar’s technical department for approval PRIOR to project bid and the job start to enable the technical department to approve and assign a job number to the project.
  - 1. The “EcoStar Gold Star Pre-Project Survey Form” must be filled out completely and accurately to include any prior deviations approved from this specification, including a roof drawing showing all dimensions, all penetrations and roof slope.
- B. When an EcoStar Gold Star Warranty is desired, EcoStar must be contacted PRIOR to project bid and installation. Information will be required for wind speeds greater than 90 mph (145 kph) and deviation from standard slope requirements.

### 1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original unopened packages.
- B. Packages shall be labeled with manufacturer’s name, brand name and identification of various items.
- C. Majestic Slate tiles may not be installed if the tiles have been stored in temperatures lower than 45°F (7°C). If tiles have been stored in temperatures below 45°F (7°C), tiles must be brought back to a material temperature of 45°F (7°C). As the temperature rises, Majestic Slate tiles will expand beyond the designed installation pattern if the product is installed while cold or frozen.
- D. Store all materials in a dry protected area. Damaged materials must NOT be used. Installed materials found to be damaged shall be replaced at Gold Star Authorized Applicator’s expense.

### 1.05 JOB CONDITIONS (CAUTIONS AND WARNINGS)

- A. Contact the EcoStar technical department for procedures when installing a Majestic Slate tile roof system during temperatures lower than 45°F (7°C).
- B. Do not install the Majestic Slate tile roof system directly over existing asphalt shingles or existing tile roof systems. All existing roof materials MUST be removed prior to installation of the Majestic Slate tile roof system.
- C. Roofing surface must be free of ice, water, or snow prior to and during the roofing project.
- D. Decking materials must be dimensionally stable prior to installing the Majestic Slate tiles. If the materials are not dry, EcoStar recommends installing the underlayment and allowing the roof to dry out before installing Majestic Slate tiles.

### 1.06 WARRANTY

- A. EcoStar will provide the Gold Star warranty for those materials supplied by EcoStar when an authorized EcoStar Gold Star Applicator completes the project and all required materials have been utilized within the roof system.
- B. Only when an EcoStar Field Service Representative has inspected and approved the completed installation will an EcoStar Gold Star warranty be issued.



- C. The warranty is available for most types of buildings and structures.
- D. The warranty period is expressed on the warranty certificate, which reflects the inclusive dates of coverage.
- E. The warranty does NOT cover the aesthetic appearance of the Majestic Slate roof installation. It is the responsibility of the EcoStar Authorized Gold Star Applicator to ensure that color/shading and quality of workmanship meets the aesthetic expectations of the home/building owner.

## PART 2 – PRODUCTS

### 2.01 GENERAL

- A. All components of the Majestic Slate Gold Star roof system are to be products manufactured or supplied by EcoStar LLC.

NOTE: Only products supplied by EcoStar LLC are included in the warranty unless otherwise specified and approved in writing by EcoStar LLC.

### 2.02 TILES

- A. Majestic Slate tiles are made of Starloy™ an 80% recycled rubber and plastic compound with appropriate colorants and UV stabilizers at 10" (254 mm) or 12" (305 mm) widths by 18" (457 mm) long, and with a tapered nominal thickness of 1/4" (6 mm).

Weight shall be determined by the following acceptable tile exposures:

#### 12" Tiles

[ ] 7" (178 mm)	=	260 - 275 lbs. (118 - 125 kg) per square
[ ] 6-1/2" (165 mm)	=	280 - 295 lbs. (127 - 134 kg) per square
[ ] 6" (152 mm)	=	300 - 320 lbs. (136 - 145 kg) per square

#### 10" Tiles

[ ] 7" (178 mm)	=	245 - 260 lbs. (111 - 118 kg) per square
[ ] 6-1/2" (165 mm)	=	270 - 280 lbs. (122 - 127 kg) per square
[ ] 6" (152 mm)	=	290 - 300 lbs. (132 - 136 kg) per square

- B. Majestic Slate tile color selection shall be made prior to bid opening and shall conform to one or more of the following colors:

- |   |  |                                       |
|---|--|---------------------------------------|
| <input type="checkbox"/> Black          | <input type="checkbox"/> Midnight Grey | <input type="checkbox"/> Federal Grey |
| <input type="checkbox"/> Smoke          | <input type="checkbox"/> Mountain Plum | <input type="checkbox"/> Cedar Brown  |
| <input type="checkbox"/> Chestnut Brown | <input type="checkbox"/> Earth Green   | <input type="checkbox"/> Sage Green   |
| <input type="checkbox"/> Stone Red      | <input type="checkbox"/> Driftwood     |                                       |

## 2.03 RELATED MATERIALS

### A. Underlayment

1. AquaGuard – a roofing underlayment recognized for use as an alternative to Type 30 roofing underlayment, consisting of spunbonded polyolefin coated with a layer of UV stabilized polyolefin on both sides, meeting requirements of ASTM D2626, referred to as 30 lb. and without perforations.
2. Glacier Guard ice & water underlayment – Granular Surface 100 (55-mil), or Smooth Surface High Temperature 300 (40-mil) a composite membrane consisting of fiberglass-reinforced rubberized asphalt laminated to an impermeable polyethylene film layer (Smooth Surface High Temperature) or coated with a granular surface providing maximum skid resistance (Granular Surface).

### B. Fasteners

1. AquaGuard
  - a. Fasteners shall be corrosive-resistant, plastic-capped roofing nails with a minimum plastic cap diameter of 1" (25 mm). Fasteners shall be 90° to the roof deck and shall not be under or over driven.
2. Tile Fasteners
  - a. EcoStar ring shank roofing nail with a 3/8" (9.5 mm) diameter head and a minimum of 1-1/2" (38 mm) long shank made from stainless steel. Nails can be supplied either as a hand-drive style or in coils for use in pneumatic tools. The EcoStar ring shank roofing nail is required for fastening of all EcoStar roof tiles.

## PART 3 - EXECUTION

### 3.01 SUBSTRATE CRITERIA

- A. The building owner or owner's representative is responsible for providing and determining that the substrate is suitable to receive the Majestic Slate tile roof system and the Authorized EcoStar Gold Star Applicator should not proceed until all defects have been corrected.



B. The Majestic Slate roof system may only be applied over:

1. Minimum 15/32" (12 mm) plywood or 7/16" (11 mm) OSB decking, properly gapped for expansion.
2. Minimum 3/4" (19 mm) tongue and groove wood decking with end gaps not exceeding 1/4" (6 mm), and board widths not exceeding 6" (152 mm).
3. Approved metal deck systems – (Metal deck systems may require the installation of appropriate thickness nail base insulation prior to attaching the EcoStar tiles). Contact EcoStar's technical department for specifics.
4. Appropriate clearance on underside of decking or sheathing must be provided for proper penetration of the EcoStar fastener.

C. Minimum slope of substrate for installation of Majestic Slate roof systems shall be a minimum of 3/12 (14°) for 6" (152 mm) exposure installation and a minimum of 6/12 (27°) for 7" (178 mm) exposure installation. Contact the EcoStar technical department for approval of applications on lower slopes or exceptions to this requirement.

### 3.02 SUBSTRATE PREPARATION

- A. The building owner or owner's representative is responsible for ensuring that all wet or damaged substrate has been removed in a re-roofing application.
- B. Existing roof material **MUST** be removed and a clean substrate free of foreign material be provided prior to the installation of the Majestic Slate tile roof system. Majestic Slate tiles may **NOT** be installed directly over any existing roof material or system.

### 3.03 INSTALLATION

- A. Flashing & Sheet Metal – Install sheet metal and flashing metal in all valleys and where required. EcoStar recommends a V-type, W-type or Double W-type metal valley flashing be used at all valleys.
- B. Where required, install metal edging at all eaves and roof edges.
- C. EcoStar suggests that all metal work be made from copper or stainless steel. Final choice of metal work is at the discretion of building owner or their designate.
- D. Be aware that staining may occur where runoff from copper metal work comes into contact with the EcoStar tiles. (Example: ridges or cupolas.)
- E. Underlayment
  1. Glacier Guard
    - a. Lap end joints 6" (152 mm) and side joints 3.5" (89 mm).
    - b. Apply continuous 36" (914 mm) wide sheet in valley centered over valley.

- c. Overlap valley metal with a strip of Glacier Guard extending from at least 6" out from the edge of the valley metal to the edge of the tile, or at least 4" inside the edge of the valley metal.
- d. Apply rows of 36" (914 mm) wide sheets along all eaves and rakes. Lap end joints 6" (152 mm) and side joints 3.5" (89 mm).
- e. Apply rows of 36" (914 mm) wide sheets along and around all dormers and roof protrusions. Lap end joints 6" (152 mm) and side joints 3.5" (89 mm).
- f. When applicable install as far up as it can be installed on any head walls or vertical walls a minimum of 12" (305 mm) where possible.
- g. Do not leave Glacier Guard Granular Surface (100) exposed to weather more than 30 days after beginning of installation. Do not leave Glacier Guard Smooth Surface High Temp (300 black) exposed to the weather more than 60 days after the beginning of installation. Do not leave Glacier Guard Smooth Surface High Temp (300 white) exposed to the weather more than 120 days after the beginning of installation.
- h. Installation of Glacier Guard at temperatures below 40°F (4°C) may require cap nailing to hold membrane in place while adhesion develops.

## 2. Aqua Guard

- a. Apply 48" (1219 mm) wide sheet over complete deck, lapping the area covered with Glacier Guard a minimum of 4" (102").
- b. Refer to the AquaGuard installation instructions found on the label on each roll. Do not leave exposed to weather more than 180 days after beginning of installation.
- c. If a ridge vent is required, overlap the ridge slot with the Aqua Guard and fold it back over the last row of field tiles before installation of the ridge vent.

## F. Majestic Slate Tile Installation

- 1. After installing underlayment, and before installing the Majestic Slate tiles, clean the surface of debris and dirt.
- 2. All Majestic Slate tiles come with shade variation. EcoStar tiles that have been ordered and supplied to the job site under one EcoStar sales order number are blended at the factory and do not need to be blended on site before installation. It is always the responsibility of the applicator to make frequent inspections from the ground or other vantage point to ensure that random shading occurs. EcoStar will not be held responsible for correcting the appearance of non-random installations. Roofers must inspect the roof frequently to prevent customer dissatisfaction.

NOTE: If EcoStar tiles have been supplied to the job site under two or more EcoStar sales order numbers, all tiles must be blended together on site before installation. Specific blending



instructions can be found at [www.ecostarllc.com](http://www.ecostarllc.com) on the “Resource Library” page. EcoStar will not be held responsible for correcting the appearance of unblended installations.

Natural weathering will produce further shade variations, even in tiles appearing to be identical in color when new.

3. Minimum Fastening – No less than 2 EcoStar ring shank fasteners per tile shall be used with a minimum length of 1-1/2” (38 mm). Fasteners should be installed at the designated “nail here” marks on the tile. Failure to fasten the tile at these locations may result in a “lifted” tile that will require removal and replacement.
4. CAUTION: When using a pneumatic nailer, care should be taken to ensure that nails are not over driven causing the tiles to curl upward. If tiles have been installed with over driven nails causing the ends of the tile to curve upward, tiles will never lay flat. Overdriven tiles must be removed and re-nailed properly. Never hold the tile from behind while nailing, as this will cause an upward curl of the tile.
5. Do not install tiles against each other. A minimum gap of 3/8” (9.5 mm) must be maintained between installed tiles. A minimum 3/8” (9.5 mm) gap must be maintained between installed tiles and any sidewalls or roof protrusions.
6. It is the responsibility of the Gold Star Authorized Applicator to ensure that each Majestic Slate tile has been flexed to provide a downward curve prior to fastening. Do not install tiles with an upward curve.
7. Beginning at the eave, install a row of slate tiles gapped a minimum of 3/8” (9.5 mm) between tiles and any protrusions while achieving a 3/4” (19 mm) overhang. Fasten with two EcoStar ring shank fasteners per tile (in location shown on tiles). This layer of tiles will become the starter row. Care must be taken to make sure that the gaps in the starter row do not line up with the gaps in the first exposed row of tiles. Maintain at least 2” (51 mm) of gap offset. The final tile at roof edges or penetrations must be a minimum of 3” (76 mm) wide. This may involve cutting the EcoStar tile to fit. To cut the EcoStar tile to the correct width simply score the front of the tile with a straight edge and utility knife and snap tile at that score. It may be quicker and easier to use a power saw. Any power saw with a blade designed to cut wood can be used to cut the tiles. Install the first course of tiles offset to the starter row. The first course of tiles should be installed flush with the starter row with no exposure.
8. Continue installing rows of tile courses up the roof slope at the correct chosen exposure ensuring that bond lines are not placed directly over each other. It is recommended that chalk lines be placed horizontally up the roof slope for every tile course. This will ensure that each course is installed parallel with the roof eave. NEVER use red chalk, as this will permanently stain the EcoStar roof tiles.
9. Valley Areas - Either an open or closed valley design may be used.
  - a. With an open valley design leave a minimum of 2” (51 mm) on each side of the center of the valley exposed and uncovered by the roof tiles. A V-Style, W-Style, or Double W- Style valley metal may be used.

- b. With a closed valley design cut the tiles in a straight line to fit no closer than 3/8" (9.5 mm) against tile of adjoining roof slope.
  - 10. Install Majestic Slate Hip & Ridge tiles at all hip locations using a minimum 2" (51 mm) stainless steel ring shank, hand-driven EcoStar fastener. EcoStar recommends a chalk line be snapped up the hip line to ensure a straight application up the roof slope. Majestic Slate Hip & Ridge tiles are always installed with a 6" (152 mm) exposure.
  - 11. Install ridge vent system per the manufacturer's application instructions and then place Majestic Slate Hip & Ridge tiles over the ridge vent. A minimum 2-1/2" (64 mm) stainless steel ring shank, hand-driven EcoStar fastener should be used when installing Hip & Ridge tiles to the deck. Place fasteners in the location marked on the tile. Majestic Slate Hip & Ridge tiles are always installed with a 6" (152 mm) exposure.
  - 12. Care must be taken to minimize foot traffic over completed areas of the roof. Majestic Slate tiles will show mud and dirt causing appearance problems. The removal of dirt and debris is the responsibility of the applicator. Never use chemical cleaning agents not approved by EcoStar to wash an EcoStar roof assembly.
  - 13. Majestic Slate tiles can be slippery when wet; caution should be exhibited with early morning dew and after rain. EcoStar strongly recommends the use of toe boards and OSHA approved harnesses and safety equipment at all times.
  - 14. Upon completion of the roof system installation, inspect and remove all debris from roof.
- G. Phased Roofing – The weathering process of the EcoStar tiles will begin immediately upon installation and exposure to the elements. Therefore, every effort should be made to ensure that the EcoStar roof assembly is installed at a continuous rate to completion. Lengthy delays in installation may result in appearance differences when installation is resumed and tiles that have not been exposed to the elements are installed adjacent to tiles that have been on the roof for an extended period of time.