

**NOTE: Based on the scope of work, additional documentation may be required. See [www.detroitmi.gov/hdc](http://www.detroitmi.gov/hdc) for scope-specific requirements.**

## PROJECT DETAILS – TELL US ABOUT YOUR PROJECT

**Instructions: Add project details using the text box in each section. If your details exceed the space provided, attach the details via the attachment icon for that section.**

**ePLANS PERMIT NUMBER:**

(only applicable if you've already applied for permits through ePLANS)

n/a

### GENERAL

**1. DESCRIPTION OF EXISTING CONDITION**

*Please tell us about the current appearance and conditions of the areas you want to change. You may use a few sentences or attach a separate prepared document on the right. (For example, "existing roof on my garage is covered in gray asphalt shingles in poor condition.")*

We changed the original wood windows for vinyl ones

**2. PHOTOGRAPHS**

*Help us understand your project. Please attach photographs of all areas where work is proposed.*



**3. DESCRIPTION OF PROJECT**

*In this box, tell us about what you want to do at the areas described above in box #1. (For example, "Install new asphalt shingle roofing at garage.")*

**4. DETAILED SCOPE OF WORK**

*In this box, please describe all steps necessary to complete the work described in box #3. (For example, "remove existing shingles, replace wood deck as necessary, replace wood eaves, install roof vents, replace rotted fascia boards, paint, clean worksite.")*




**5. BROCHURES/CUT SHEETS**

*Please provide information on the products or materials you are proposing to install. For example, a brochure on the brand and color of the shingles proposed.*



**ADDITIONAL DETAILS**

<p><b>6. WINDOWS/DOORS</b> <i>Detailed photographs of window(s) and/or door(s) proposed for replacement showing the condition of the interior and exterior of the window(s) and/or door(s)</i></p>	







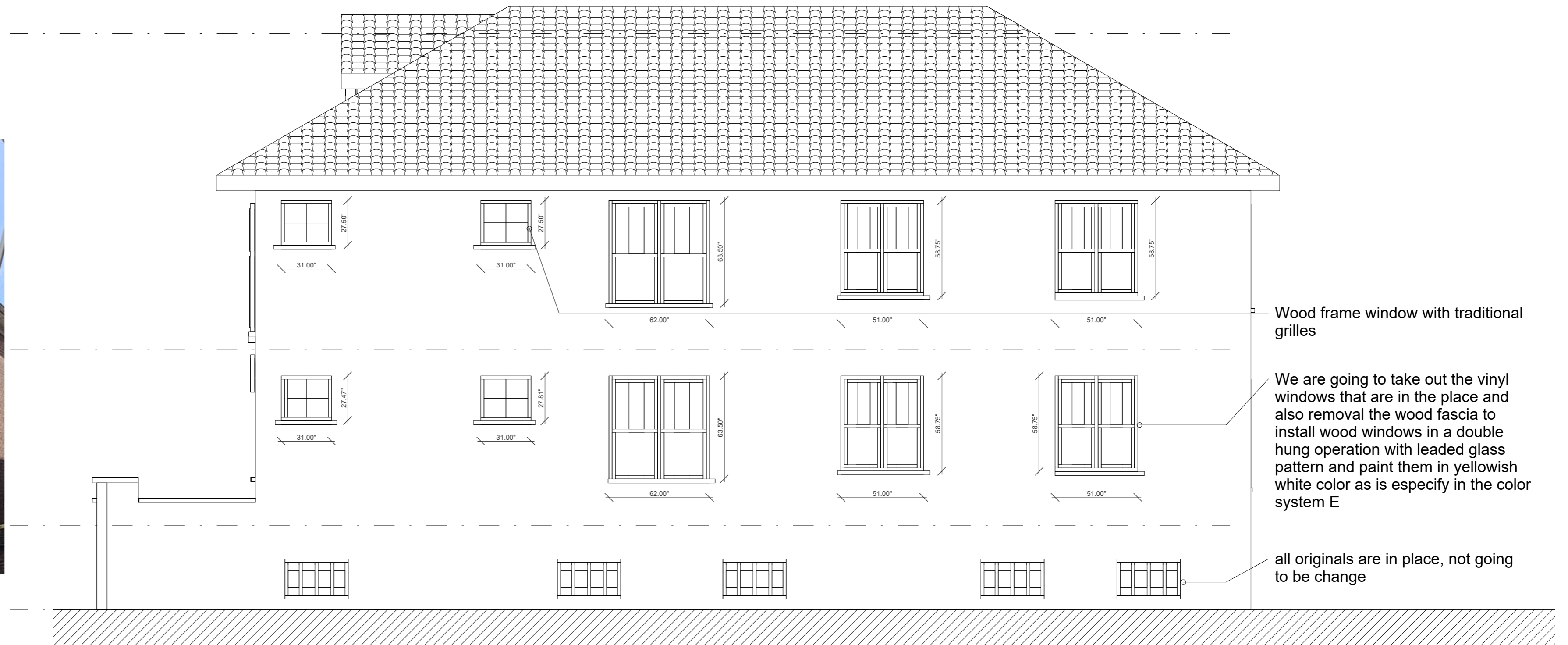




# WEST ELEVATION



REFERENCE PHOTOS





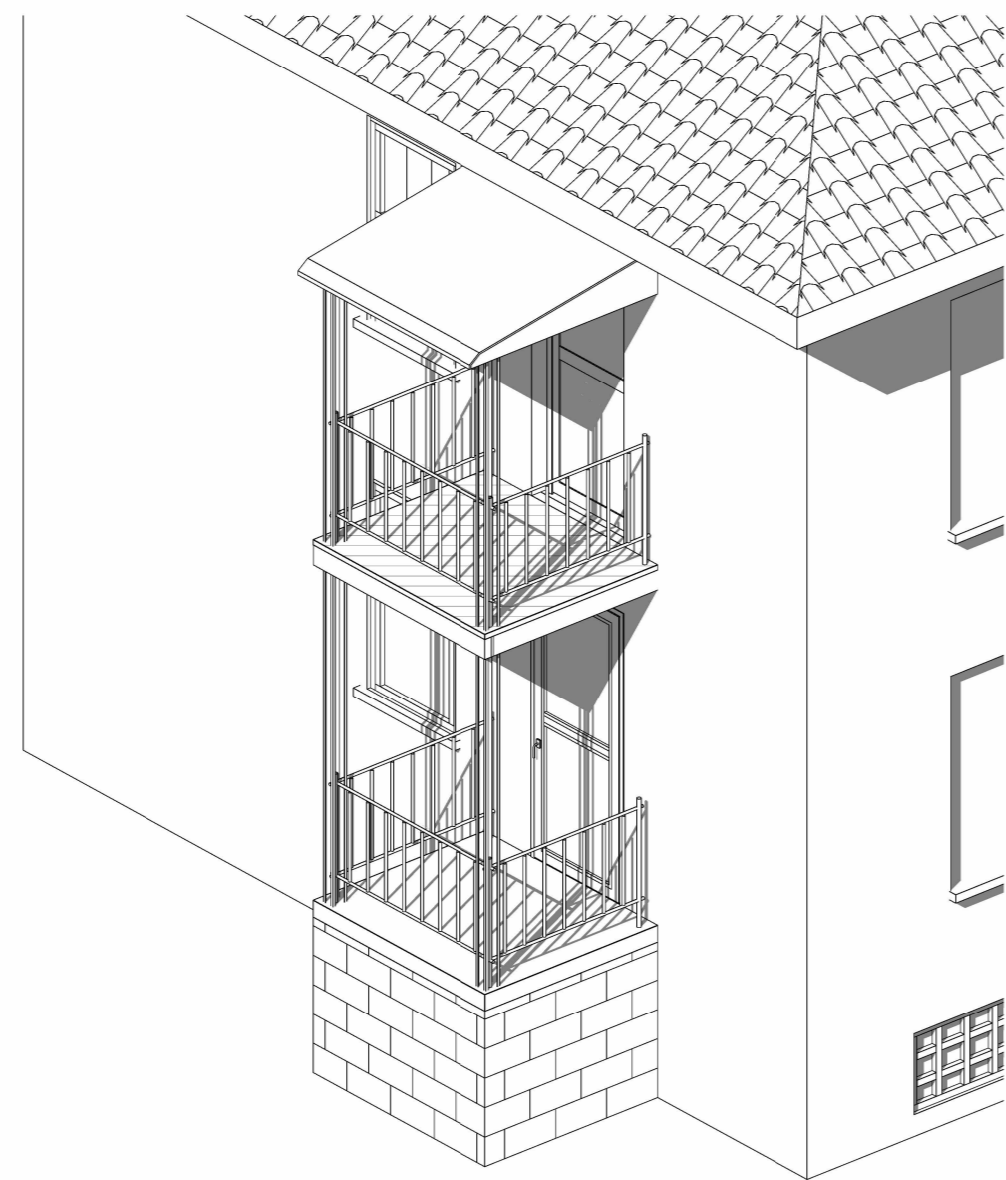


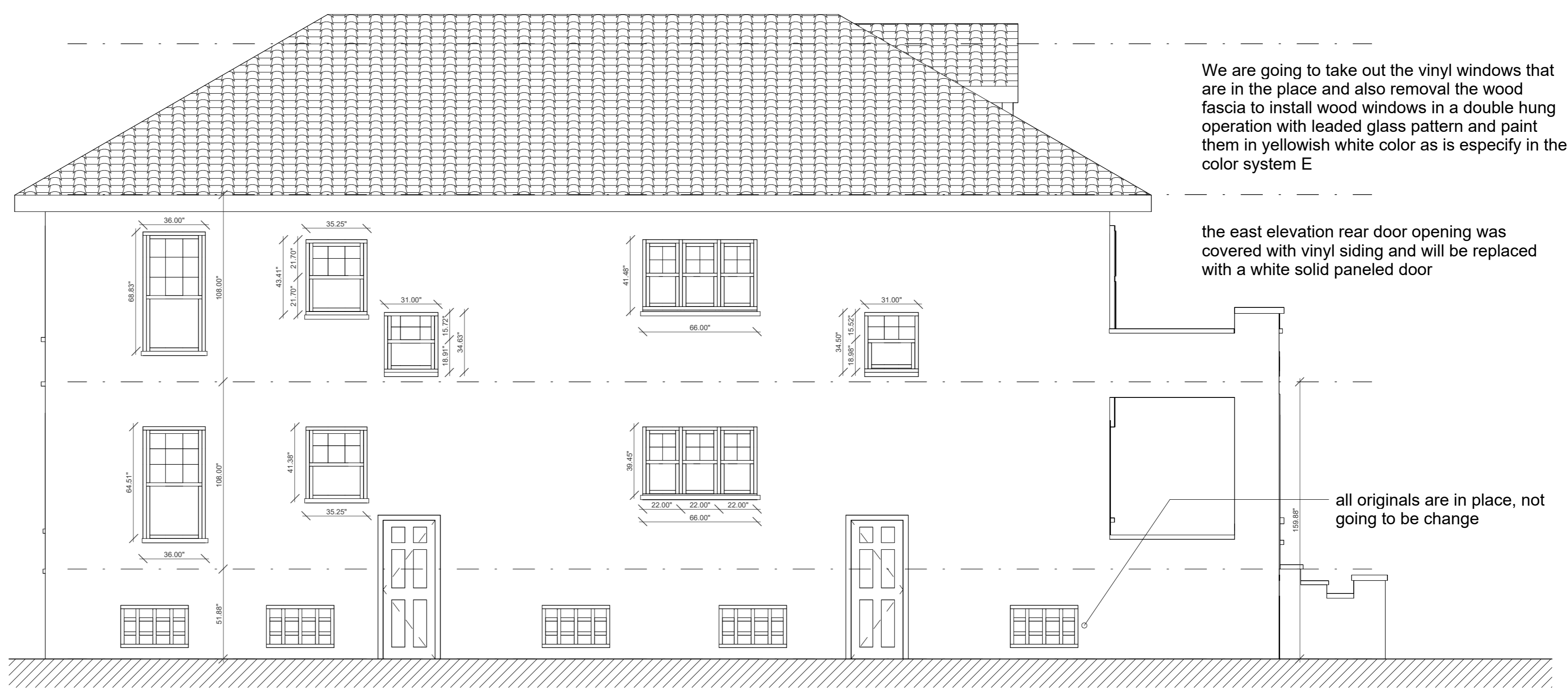
IMAGE AND 3D REFERENCE



# EAST ELEVATION



REFERENCE PHOTOS





Remove loose and rotted wood and replace beams to rebuild the timber structure of the front porch



Gently remove loose bricks and clean the surface well to prepare it with cement and re-glue the original bricks and get old bricks of the same brown and red color to put the missing ones and make the walls level again

Scrape off the light gray concrete that is visible on the surface of the bricks to re-establish the original bricks

The dormer windows will be reconstructed using wood and traditional grille patterns.

We are going to take out the vinyl windows and make the originals 5 wood windows in a double hung operation with leaded glass pattern and paint them in yellowish white color as is especify in the color system E and the stucco in Brownish Pink without changing the original size or shapes.

We will put white wooden doors on the first and second floors and keep the original black gates on the first floor.

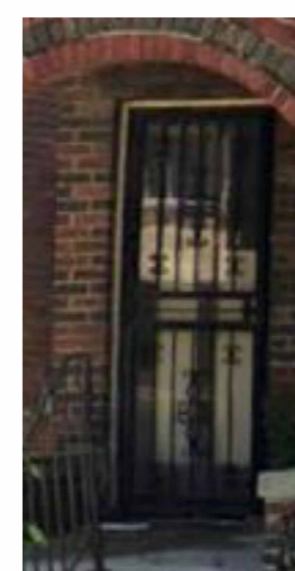
Take out the vinyl windows and the new windows are going to be in wood with the original color exactly as the neighboring house (3755 Tyler) but is going to have traditional grilles.



NEIGHBORS HOUSE REFERENCE



ORIGINAL WINDOWS



ORIGINAL BLACK GATE



ORIGINAL DORMER WINDOW

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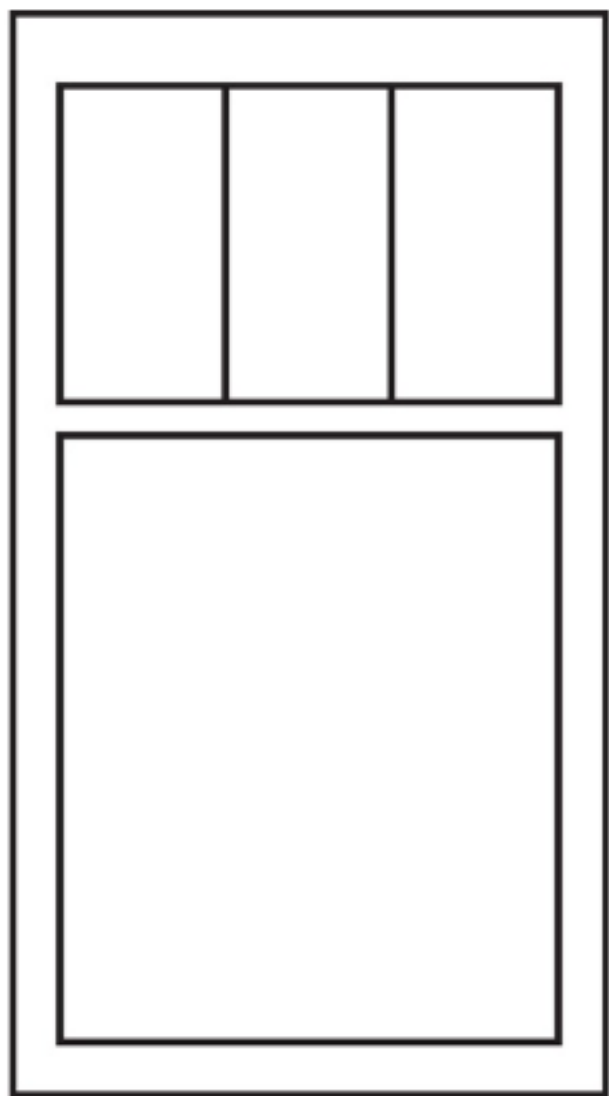
**C:4 Yellowish  
White  
MS: 5Y 9/1**

DocuSign Envelope ID: AC4421B1-

**A:1 Yellowish Gray**  
**MS: 2.5Y 8/2**

## Patterns

Marvin's custom capabilities allow us to create almost any divided lite pattern you can dream up, with combinations of widths, unique profiles, rectangular or radius cuts and more. Choose from an existing lite cut, specify custom divided lites according to a new design or ask our design professionals to assist in creating a pattern for your needs.



**Selected:** Top Sash Cottage





## Ultimate Wood Double Hung

The Ultimate Wood Double Hung window is ideal for historic projects where a wood exterior is needed to match original architectural details. Offers flexible design options like single hung or stationary sash configurations.

- Multiple design options and woods available to match historical aesthetics and design requirements
- Fits openings up to 4 feet wide by 8 feet high
- Also available as a round top, single hung, stationary transom, or picture window



# WEST ELEVATION



REFERENCE PHOTOS



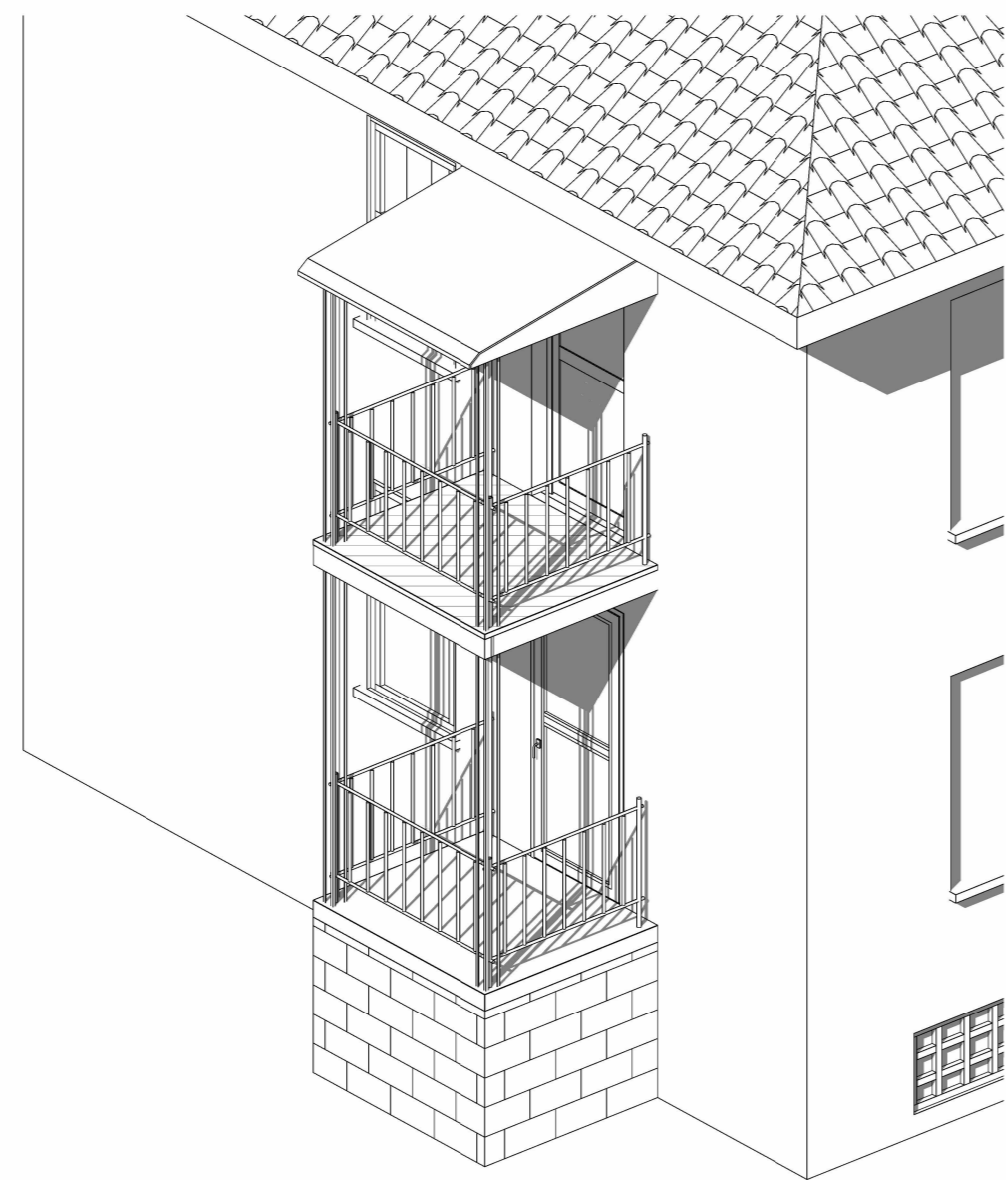


IMAGE AND 3D REFERENCE



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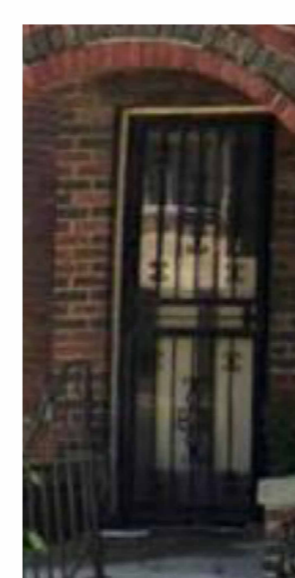
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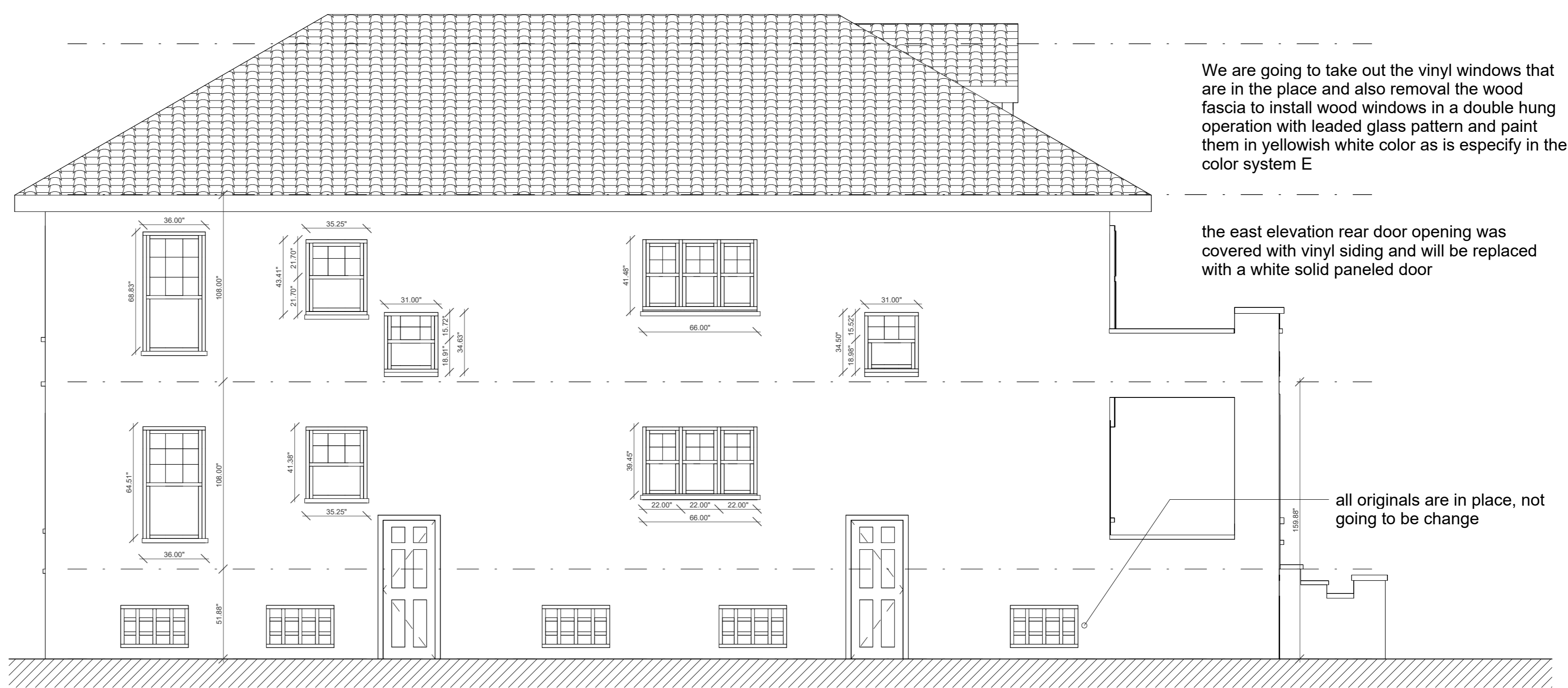


ORIGINAL DORMER WINDOW

# EAST ELEVATION



REFERENCE PHOTOS





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Exterior View



# Ultimate Wood Double Hung

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Interior View

## **Section 08 52 00 Ultimate Wood Double Hung Collection**

### **Part 1 General**

#### **1.1 Section Includes**

- A. Ultimate Wood Double Hung, Single Hung, Transom, Picture window complete with hardware, glazing, weather strip, insect screen, grilles-between-the-glass, simulated divided lite, authentic divided lite, jamb extension, combination storm/screen, and standard or specified anchors, trim, and attachments
- B. Ultimate Wood Double Hung, Single Hung Bay or Bow complete with hardware, glazing, weather strip, insect screen, grilles-between-the-glass, simulated divided lite, authentic divided lite, jamb extension, combination storm/screen, head/seat board, and standard or specified anchors, trim attachments, and accessories
- C. Ultimate Wood Double Hung Round Top window complete with hardware, glazing, weather strip, insect screen, simulated divided lite, grilles-between-the-glass, authentic divided lite, jamb extension, combination storm/screen, and standard or specified anchors, trim, and attachments

#### **1.2 Construction Specification Institute (CSI) MasterFormat Numbers and Titles**

- A. Section 01 33 00 – Submittal Procedures, Shop Drawings, Product Data and Samples
- B. Section 01 62 00 – Product Options
- C. Section 01 65 00 – Product Delivery
- D. Section 01 66 00 – Storage and Handling Requirements
- E. Section 01 71 00 – Examination and Preparation
- F. Section 01 73 00 - Execution
- G. Section 01 74 00 – Cleaning and Waste Management
- H. Section 01 76 00 – Protecting Installed Construction
- I. Section 06 22 00 – Millwork: Wood trim other than furnished by window manufacturer
- J. Section 07 92 00 – Joint Sealant: Sill sealant and perimeter caulking
- K. Section 09 90 00 – Painting and Coating: Paint and stain other than factory-applied finish



### 1.3 References

- A. American Society for Testing Materials (ASTM):
  - 1. E283: Standard Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors
  - 2. E330: Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls and Door by Uniform Static Air Pressure Difference
  - 3. E547: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential
  - 4. E2112: Standard Practice for Installation of Exterior Windows, Doors, and Skylights
  - 5. E2190: Specification for Sealed Insulated Glass Units
  - 6. C1036: Standard Specification for Flat Glass
  - 7. E2068: Standard Test Method for Determination of Operating Force of Sliding Windows and Doors
- B. American Architectural Manufacturer's Association/Window and Door Manufacturer's Association (AAMA/WDMA/CSA):
  - 1. AAMA/WDMA/CSA 101/I.S.2/A440-08, North American Fenestration, Standard/Specification for window, doors and skylights
  - 2. AAMA/WDMA/CSA 101/I.S.2/A440-11,NAFS 2011 – North American Fenestration, Standard/Specification for windows, doors and skylights
- C. WDMA I.S.4: Industry Standard for Water Repellant Preservative Treatment for Millwork
- D. Window and Door Manufacturer's Association (WDMA): 101/I.S.2 WDMA Hallmark Certification Program
- E. Sealed Insulating Glass Manufacturer's Association/Insulating Glass Certification Council (SIGMA/IGCC)
- F. American Architectural Manufacturer's Association (AAMA): 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels
- G. National Fenestration rating Council (NFRC):
  - 1. 101: Procedure for Determining Fenestration Product thermal Properties
  - 2. 200: Procedure for Determining Solar Heat Grain Coefficients at Normal Incidence
- H. Window Covering Manufacturer's Association
  - 1. A100.1: Standard for safety of corded covering products

#### **1.4 Submittals**

- A. Shop Drawings: Submit shop drawings under provision of CSI MasterFormat Section 01 33 00.
- B. Product Data: Submit product data for certified options under provision of CSI MasterFormat Section 01 33 00. Product performance rating information may be provided via quote, performance rating summary (NFRC Data), or certified performance grade summary (WDMA Hallmark data).
- C. Samples:
  - 1. Submit corner section under provision of CSI MasterFormat Section 01 33 00.
  - 2. Specified performance and design requirements under provisions of CSI MasterFormat Section 01 33 00.

#### **1.5 Quality Assurance**

- A. Requirements: consult local code for IBC [International Building Code] and IRC [International Residential Code] adoption year and pertinent revisions for information on:
  - 1. Egress, emergency escape and rescue requirements
  - 2. Basement window requirements
  - 3. Windows fall prevention and/or window opening control device requirements

#### **1.6 Delivery**

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

#### **1.7 Storage and Handling**

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

#### **1.8 Warranty**

Complete and current warranty information is available at [marvin.com/warranty](http://marvin.com/warranty). The following summary is subject to the terms, condition, limitations and exclusions set forth in the Marvin Windows and Door Limited Warranty and Products in Coastal Environments Limited Warranty Supplement:

- A. Clear insulating glass with stainless steel spacers is warranted against seal failure caused by manufacturing defects and resulting in visible obstruction through the glass for twenty (20) years from the original date of purchase. Glass is warranted against stress cracks caused by manufacturing defects from ten (10) years from the original date of purchase.
- B. Factory applied interior finish is warranted to be free from finish defects for a period of five (5) years from the original date of purchase.
- C. Hardware and other non-glass components are warranted to be free from manufacturing defects for ten (10) years from the original date of purchase.

## **Part 2 Products**

### **2.1 Manufactured Units**

- A. Description: Ultimate Wood Double Hung, Single Hung, Transom, Picture, as Manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- B. Description: Ultimate Wood Double Hung, Single Hung Round Top as manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- C. Description: Wood Ultimate Double Hung Bow unit, (and related stationary units) as manufactured by Marvin Windows and Door, Warroad, Minnesota.
  - 1. Available in 3, 4, 5, and 6 wide assemblies
  - 2. 6 degree angle
  - 3. With and w/out head and seat board
- D. Description: Ultimate Wood Double Hung Bay Assemblies as manufactured by Marvin Window and Doors, Warroad, Minnesota.
  - 1. Available 30 degree, 45 degree, 60 degree, and 90 degree
  - 2. With and w/out head and seat board

### **2.2 Frame Description**

- A. Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer
  - 1. Kiln-dried to moisture content no greater than 12 percent at the time of fabrication
  - 2. Water repellent, preservative treated in accordance with ANSI/WDMA I.S.4.
- B. Frame thickness: 1 1/16" (17mm) head and side jams

- C. Frame depth: Frame depth had an overall 5 21/32" jamb (144mm). 4 9/16" (116mm) jamb depth from the nailing fin plane to the interior face of the frame for new construction.
- D. Frame bevel: 8 degree bevel on sill and subsill
- E. Subsill: 1 3/32" (28mm)

### 2.3 Sash Description

- A. Interior: Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer
  - 1. Kiln-dried to moisture content no greater than twelve (12) percent at the time of fabrication.
  - 2. Water repellent preservative treated with accordance with WDMA I.S.4.
- B. Sash thickness: 1 5/8" (41mm) for operable units, 1 5/8" (41mm) or 2" (51mm) for picture units
- C. Operable sash tilt to interior for cleaning or removal
- D. Sash Options: Unequal Sash
- E. Interior Sash Sticking
  - 1. Standard: Ovolo
  - 2. Optional: Interior Square sticking

### 2.4 Glazing

- A. Select quality complying with ASTM C1036. Insulating glass SIGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E2190.
- B. Glazing method: Insulating glass
- C. Glazing seal: Silicone glazed
- D. Dual-pane thickness: 11/16"; Tri-pane thickness: 7/8"
- E. Glass fill: Air with capillary tubes, Argon
- F. Glass Type: Clear, Bronze, Gray, Reflective Bronze, Tempered, Obscure, Laminated, Low E2, Low E3, Low E1, Low E2/ERS, Low E3/ERS
- G. Triple-pane glass(TG): Triple-pane Low E3/E1/ERS, Triple-pane E2/E1/ERS, Triple-pane Low E1 Argon, Triple-pane Low E2 Argon, Triple-pane Low E3 Argon
  - 1. This glass type is dependent on sash thickness and availability

2. Consult ADM or OMS for availability

## 2.5 Finish

- A. Interior/Exterior: Treated bare wood
  - 1. Prime: Factory-applied water-borne acrylic primer. Meets WDMA TM-11 requirements..
- B. Interior Finish options:
  - 1. Painted Interior Finish. Factory-applied water-borne acrylic enamel. Available on Pine product only. Available in White or Designer Black. Meets WDMA TM-14 requirements.
  - 2. Factory-applied water-borne acrylic enamel clear coat. Applied in two separate coats with light sanding between coats. Available on Pine, Mahogany, and Vertical Grain Douglas Fir.
  - 3. Factory-applied water-borne urethane stain. Stain applied over a wood (stain) conditioner. A water-borne acrylic enamel clear coat applied in two separate coats, with light sanding between coats, applied over the stain. Available on Pine, Mahogany, and Vertical Grain Douglas Fir. Colors available: Wheat, Honey, Hazelnut, Leather, Cabernet, and Espresso.

## 2.6 Hardware

- A. Balance System: Coil spring block and tackle with nylon cord and fiber filled nylon clutch
- B. Jamb Carrier: Vinyl extrusion with wood inserts
  - 1. Color: beige
- C. Lock: High pressure zinc die-cast cam lock and keeper
  - 1. Finish: Phosphate coated and electrostatically painted Satin Taupe, Bronze, White, Brass, Satin Chrome, Satin Nickel, Antique Brass, Oil Rubbed Bronze
- D. Check rail guide
- E. Optional Window Operating Control Device

## 2.7 Weather Strip

- A. Operating units:
  - 1. Continuous, leaf weather strip at head jamb, parting stop, dual durometer bulb at check rail, foam bulb type dual durometer weather strip on vertical sash edge; dual durometer bulb weather strip at bottom rail
- B. Stationary units:
  - 1. Continuous, bulb weather strip at perimeter of sash, concealed slotted bulb weather strip on exterior of sash, pile strip on interior of blind stop, dual durometer bulb weather strip at bottom rail.

## 2.8 Jamb Extension

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

## 2.9 Heat/Seat Board (For use with Bow and Bay units)

- A. Factory-installed (head board) (seat board) for wall thickness indicated or required
- B. Finish: match interior finish

## 2.10 Insect Screen

- A. Factory-installed full or half screen. Half screen covers sash opening.
  - 1. Screen Mesh: Standard is Marvin Bright View™. Optional: Black Aluminum Wire, Bright Aluminum Wire, Bright Bronze Aluminum Wire, Charcoal Aluminum Wire
- B. Aluminum frame finish:
  - 1. Color: Stone White, Bahama Brown, Bronze, Pebble Gray, Evergreen, Sierra White, Coconut Cream, Cashmere, Cadet Gray, Ebony, Cascade Blue, Hampton Sage, Wineberry, Bright Silver (pearlescent), Copper (pearlescent)

## 2.11 Wood Combination Storm Sash and Screen

- C. Frame: Primed Pine,
  - 1. Kiln-dried to moisture content no greater than twelve (12) percent at the time of fabrication
  - 2. Water repellent preservative treated in accordance with WDMA I.S.4.
  - 3. Frame thickness: 1-1/16 inches (26 mm)
  - 4. Extruded aluminum track utilized to hold storm and screen panels
- D. Hardware: Spring loaded latches to hold removable storm panel in position
- E. Weather strip: Pile weather strip seals between operating panels and against stiles of main frame
- F. Storm Panel: Select quality glass in aluminum frame
  - 1. Frame finish: Bronze; Stone White
- G. Insect Screen Panel:
  - 2. Screen Mesh: Standard is Charcoal Aluminum Wire; Optional: Marvin Bright View™.

3. Aluminum frame finish: Bronze; Stone White
- H. Wood Storm Sash: Select quality glass in clear Pine frame
1. Top Rail and stiles: 2-1/8 inches (54 mm) wide
  2. Bottom rail: 4-1/16 inches (103 mm) wide
  3. Sash thickness: 1-3/32 inches (28 mm)

### **2.12 Simulated Divided Lites (SDL)**

- A. 5/8" (16mm) wide, 7/8" (22mm) wide, 1 1/8" (29mm), 1 3/4" (44mm), 2 13/32" (61mm) wide with or w/out internal spacer bar
- B. Muntins: Pine, Mahogany, or Vertical Grain Douglas Fir
- C. Muntins adhere to glass with closed-cell copolymer acrylic foam tape
- D. Sticking:
  1. Standard: Ovolo
  2. Optional: Interior Square sticking
- E. Pattern: Rectangular, diamond, custom lite cut
- F. Finish: Match panel finish

### **2.13 Grilles-Between-the-Glass (GBG)**

- A. 23/32" (18mm) contoured aluminum bar.
  1. Exterior Colors: Stone White. The exterior GBG color is designed to best match the Marvin aluminum clad color when used with LoE glass. The use of different types of glazing may alter the exterior GBG color appearance.
  2. Standard Interior Color: Stone White
  3. Optional Interior Colors: Bronze, Pebble Gray, Sierra, White, Ebony (only available with Ebony exterior)
- B. Optional flat aluminum spacer bar. Contact your Marvin representative.
- C. Pattern: Rectangular, Cottage, Custom lite layout

### **2.14 Authentic Divided Lites (ADL)**

- A. 1 1/2" (38mm) insulating Pine, Mahogany, Vertical Grain Douglas Fir muntins or 7/8" (22mm) single glaze ADL with energy panel



1. Pattern: Rectangular; Custom lite layout
2. Finish: Match sash finish

## **2.15 Accessories and Trim**

### **A. Installation Accessories:**

1. Factory installed vinyl nailing/drip cap
2. Installation brackets: 6 3/8" (162mm), 9 3/8" (283mm), 15 3/8" (390mm)
3. Masonry brackets: 6" (152mm), 10" (254mm)

### **B. Exterior Wood Moulding:**

1. Profile: Brick Mould Casing, Flat Casing, Stucco Brick Mould, Stucco Flat Casing, Special Casing 3 (SPC3), Special Casing 7 (SPC7), Special Casing 21 (SPC21), Special Casing 18 (SPC18), Special Casing 26 (SPC26)
2. Finish: Match exterior frame finish

### **C. Cedar Dress:**

1. Sill
2. Subsill
3. Blind stops and jamb covers
4. Mull covers
5. Brick Mould and Flat Casing
6. Available on Pine frames
7. Bare cedar

## **Part 3 Execution**

### **3.1 Examination**

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

### **3.2 Installation**

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

### **3.3 Field Quality Control**

- A. Remove visible labels and adhesive residue according to manufacturer's instruction.
- B. Unless otherwise specified, air leakage resistance tests shall be conducted at a uniform static pressure of 75 Pa (~1.57 psf). The maximum allowable rate of air leakage shall not exceed 2.3 L/sm<sup>2</sup> (~0.45 cfm/ft<sup>2</sup>).
- C. Unless otherwise specified, water penetration resistance testing shall be conducted per AAMA 502 and ASTM E1105 at 2/3 of the fenestration products design pressure (DP) rating using "Procedure B" – cyclic static air pressure difference. Water penetration shall be defined in accordance with the test method(s) applied.

### **3.4 Cleaning**

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

### **3.5 Protecting Installed Construction**

- A. Comply with CSI MasterFormat Section 07 76 00.
- B. Protecting windows from damage by chemicals, solvents, paint or other construction operations that may cause damage.

End of Section