

## Historical Areas Board of Review(HABR)

Town of Orangetown Building Department  
20 Greenbush Road, Orangeburg, New York 10962

PROPERTY ADDRESS: 1 Hausen Terrace, Tappan, NY Section/Block/Lot: \_\_\_\_\_

1. Provide a narrative summary explaining the project and including any facts pertaining to this project which applicant feels would be of interest to the Board;
2. Architectural Plans;
3. It is preferable to the HABR if the Architect would appear at the meeting with the Applicant.
4. Please bring SAMPLES of building materials to the meeting.
5. Materials checklist: (please provide the brand name, type, style, model and color numbers):

	COLOR	MATERIAL	MANUFACTURER
Roof:			
Siding:			
Decorative Siding:			
Soffits & Fascia:			
Gutters & Leaders:			
Windows:	W.		
Trim:	White		
Shutters:			
Front Door:			
Back Door:	Regular white	Entry door with glass	
Garage Door(s):			
Other Door(s):	Patio sliding door		
Lighting:			
Lighting:			
Stone or Rock being used on Structure:			
Stone or Rock being used on walkway(s):			
Other:			

Name of Municipality: TOWN OF ORANGETOWN

Date Submitted: \_\_\_\_\_

### 2021 LAND USE BOARD APPLICATION

*Please check all that apply:*

<input type="checkbox"/> Commercial <input type="checkbox"/> <b>Planning Board</b> <input type="checkbox"/> <b>Zoning Board of Appeals</b>  <input type="checkbox"/> Subdivision <input type="checkbox"/> Number of Lots <input type="checkbox"/> Site Plan <input type="checkbox"/> Conditional Use  <input type="checkbox"/> Special Permit <input type="checkbox"/> Variance <input type="checkbox"/> Performance Standards Review <input type="checkbox"/> Use Variance <input type="checkbox"/> Other (specify): _____	<input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> <b>Historical Board</b> <input type="checkbox"/> <b>Architectural Board</b>  <input type="checkbox"/> Consultation <input type="checkbox"/> Pre-Preliminary/Sketch <input type="checkbox"/> Preliminary <input type="checkbox"/> Final <input type="checkbox"/> Interpretation
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**PERMIT#:** 51727  
**ASSIGNED**  
**INSPECTOR:** Dom

Referred from Planning Board: YES / NO  
 If yes provide date of Planning Board meeting: \_\_\_\_\_

**Project Name:** Zachariah  
~~Replacement of windows and deck sliding door~~

**Street Address:** 1 Hausa Terrace  
Tappan, NY 10983

**Tax Map Designation:**  
Section: 77.11 Block: 1 Lot(s): 8.1  
Section: \_\_\_\_\_ Block: \_\_\_\_\_ Lot(s): \_\_\_\_\_

**Directional Location:**  
On the North West side of Kings Highway, approximately 50 feet of the intersection of Hausa Terrace & King Hwy, in the Town of Orangetown in the hamlet/village of Tappan.

Acreage of Parcel <u>0.64</u>	Zoning District <u>R-15</u>
School District <u>South Orangetown</u>	Postal District <u>Tappan</u>
Ambulance District <u>South Orangetown</u>	Fire District <u>Orange Tappan</u>
Water District _____	Sewer District <u>Orangetown</u>

**Project Description:** (If additional space required, please attach a narrative summary.)  
Replacing windows with exact same size, color and type of windows due to age

The undersigned agrees to an extension of the statutory time limit for scheduling a public hearing.  
Date: \_\_\_\_\_ Applicant's Signature: \_\_\_\_\_

# APPLICATION REVIEW FORM

**FILL IN WHERE APPLICABLE.**

**( IF THE FOLLOWING DOES NOT APPLY PLEASE MOVE ON TO THE NEXT PAGE )**

**If subdivision:**

NA

- 1) Is any variance from the subdivision regulations required? \_\_\_\_\_
- 2) Is any open space being offered? \_\_\_\_ If so, what amount? \_\_\_\_\_
- 3) Is this a standard or average density subdivision? \_\_\_\_\_

**If site plan:**

NA

- 1) Existing square footage \_\_\_\_\_
- 2) Total square footage \_\_\_\_\_
- 3) Number of dwelling units \_\_\_\_\_

**If special permit,** list special permit use and what the property will be used for.

NA

\_\_\_\_\_  
\_\_\_\_\_

**Environmental Constraints:**

NA

Are there **slopes greater than 25%**? If yes, please indicate the amount and show the gross and net area \_\_\_\_\_

Are there **streams** on the site? If yes, please provide the names. \_\_\_\_\_

Are there **wetlands** on the site? If yes, please provide the names and type:

**Project History:**

No

Has this project ever been reviewed before? \_\_\_\_\_

If so, provide a narrative, including the list case number, name, date, and the board(s) you appeared before, and the status of any previous approvals.

\_\_\_\_\_  
\_\_\_\_\_

List tax map section, block & lot numbers for all other abutting properties in the same ownership as this project.

\_\_\_\_\_  
\_\_\_\_\_



OFFICE OF BUILDING, ZONING, PLANNING,  
ADMINISTRATION AND ENFORCEMENT  
**TOWN OF ORANGETOWN**

20 Greenbush Road  
Orangeburg, N.Y. 10962

Jane Slavin, R.A.  
Director

(845)359-8410

Fax: (845) 359-8526

**HISTORICAL AREAS BOARD OF REVIEW REFERRAL LETTER**

Date: July 21, 2021

Applicant: Zachariah

Address: 1 Hauser Ter, Tappan, NY

RE: Application Made at: same

Subject Referral for: Chapter 12 Section 12-4 Paragraph A requires HABR Approval

Section: 77.11 Block: 1 Lot: 8.1

Dear Zachariah:

Please be advised that the Building Permit Application, which you submitted on July 19, 2021, has been referred to appear before the H.A.B.R. I have enclosed a copy of your application, where you will find at the bottom the reason for denial.

The Clerk to the Historical Areas Board of Review, Debbie Arbolino, can assist you in the preparation necessary to appear before the board. Please contact her at 845-359-8410 ext. 4331 or [darbolino@orangetown.com](mailto:darbolino@orangetown.com)

Sincerely,

[Signature] 7.21.21

Richard Oliven  
Deputy Building Inspector

[Signature] Deputy 7.21.21

Signature of Director  
NOTE: PLEASE KEEP FOR YOUR RECORDS  
12-31-18-CCC

Date  
CC: Rosanna Sfraga  
Liz Decort  
Debbie Arbolino

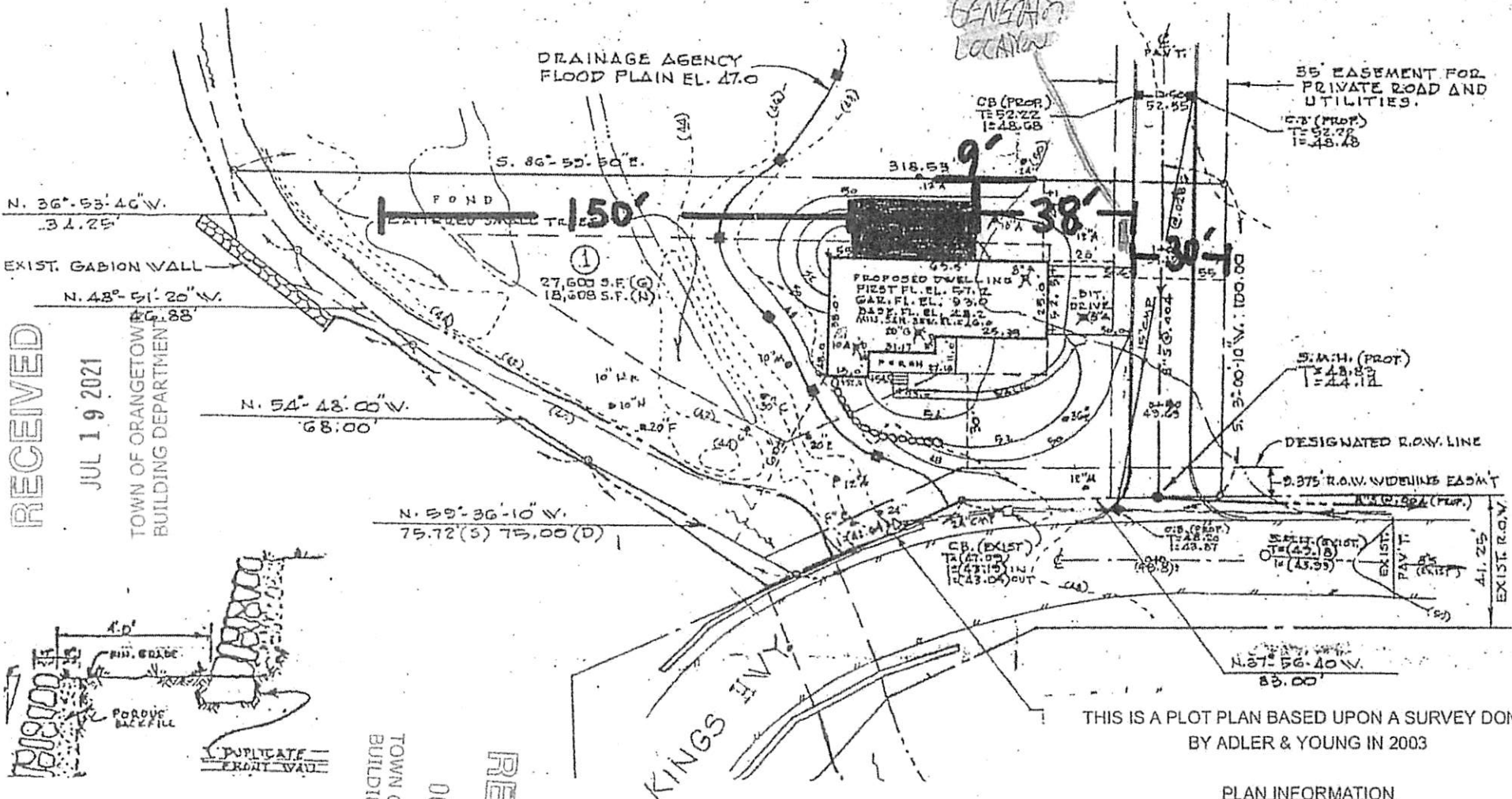


SWIS	PRINT KEY	NAME	ADDRESS
392489	<del>77.11-1-4</del>	<del>Grizely Realty LLC</del>	<del>16 Charles St, Nanuet, NY 10954</del>
392489	77.11-1-5	Craig Dixon	14 McLeod Ter, New City, NY 10956
392489	77.11-1-8.1	Mano R Zachariah	1 Hauser Ter, Tappan, NY 10983
392489	77.11-1-8.2	Robert Zimmerman	2 Hauser Ter, Tappan, NY 10983
392489	77.11-1-8.3	Joseph Hauser	3 Hauser Ter, Tappan, NY 10983
392489	77.11-1-10	John Morton	86 Kings Hwy, Tappan, NY 10983
392489	77.11-1-73.1	Francis L Rich	19 Ona Ln, New Windsor, NY 12553
392489	77.11-1-73.2	Francis L Rich	19 Ona Ln, New Windsor, NY 12553

RECEIVED

JUL 19 2021

TOWN OF ORANGETOWN  
BUILDING DEPARTMENT



TOWN OF ORANGETOWN  
BUILDING DEPARTMENT

OCT 20 2020

RECEIVED

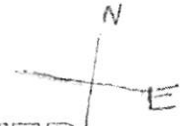
THIS IS A PLOT PLAN BASED UPON A SURVEY DON  
BY ADLER & YOUNG IN 2003

PLAN INFORMATION

OWNER: MANO ZACHARIAH  
ADDRESS: 1 HAUSER TERRACE, TAPPAN NY 10983  
SEC-BLK-LOT: 77.11-1-8.1  
PREPARED BY: BILLY D. VALENTINE  
DATE: 10/16/2020

1 Hauser Terrace  
Tappan, NY

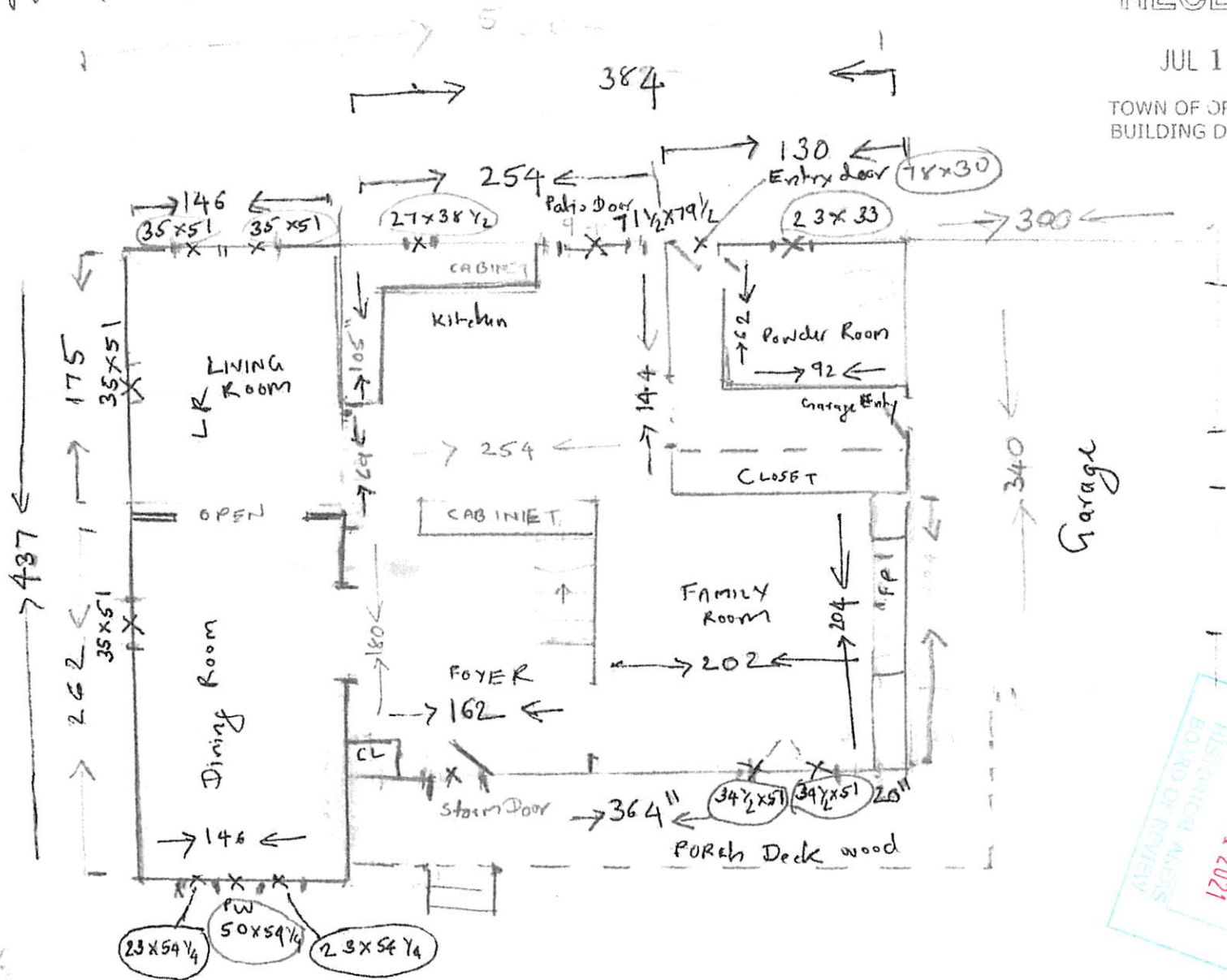
# Level I (Main Level)



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JUL 19 2021

TOWN OF ORANGETOWN  
BUILDING DEPARTMENT



91  
118  
33  
202

Garage

Town of Orange  
Historical Assets  
Board of Review  
SEP 14 2021

Western Highway

Hauser Terrace

1 Hawer Terrace  
Tappan, NY

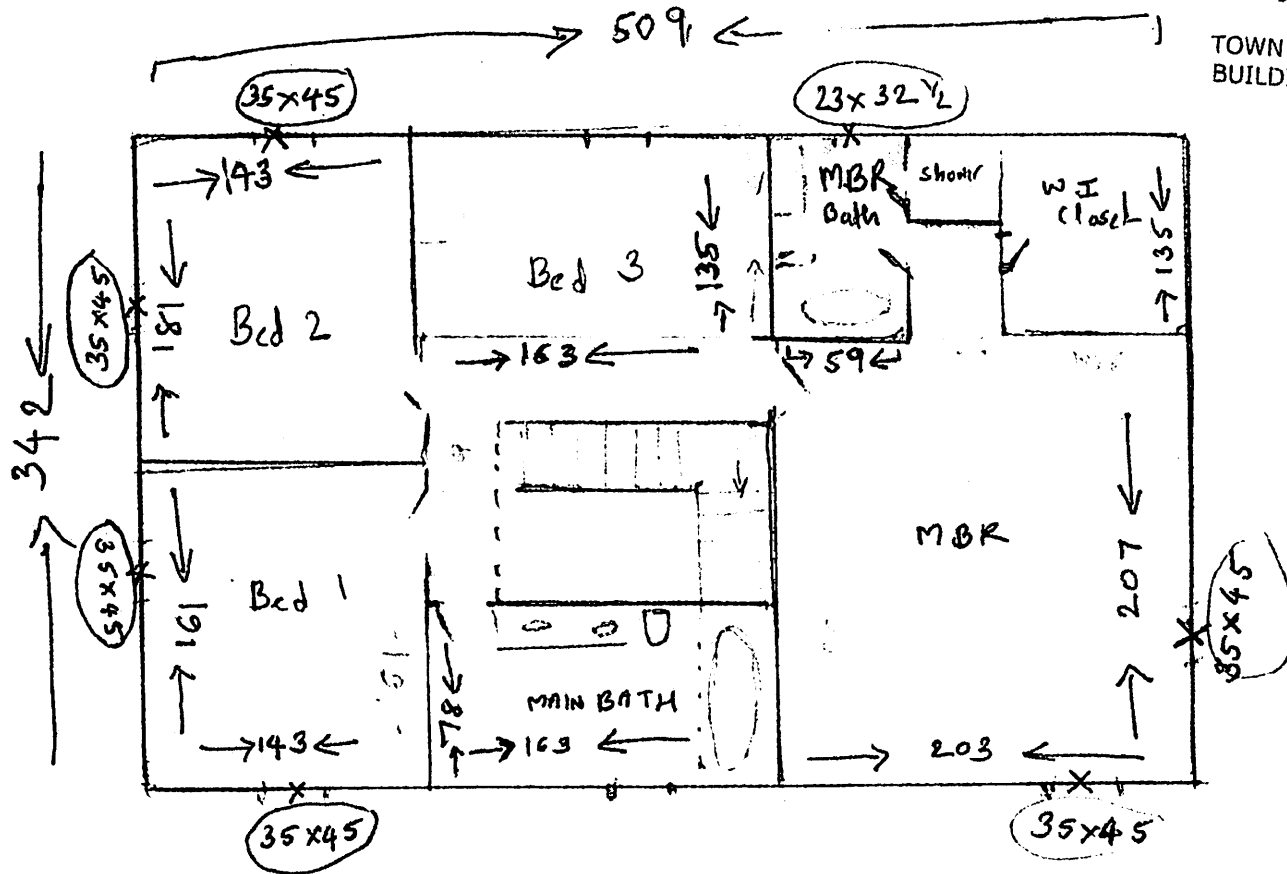
Level 2 (Upper Level)



RECEIVED

JUL 19 2021

TOWN OF ORANGETOWN  
BUILDING DEPARTMENT



Hawer Terrace

western H-way

1 House Terrace  
Tappan, NY

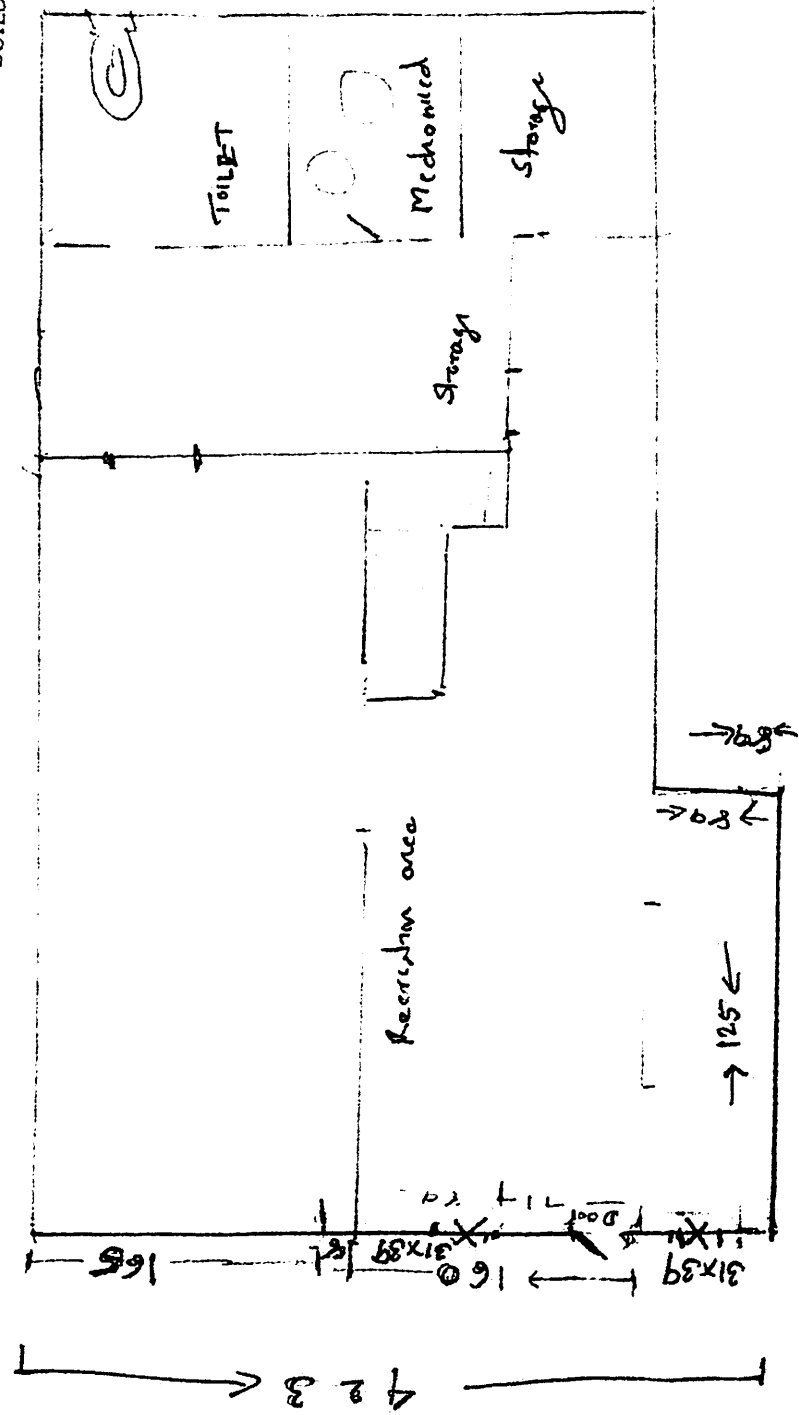
# BASEMENT



RECEIVED

JUL 19 2021

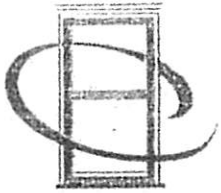
TOWN OF ORANGETOWN  
BUILDING DEPARTMENT



160
166
97
223

House Terrace

Western Ave



IDEAL WINDOW  
Our name says it all!



# Sunview Buckingham Patio Door Order Form

Account # 307130

RECEIVED

Name \_\_\_\_\_

Your Customer's P.O. Thomas JUL 19 2021

Phone ( ) \_\_\_\_\_ TOWN OF ORANGETOWN  
BUILDING DEPARTMENT

Address \_\_\_\_\_

Order Date: \_\_\_\_\_

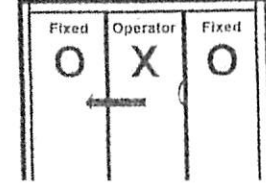
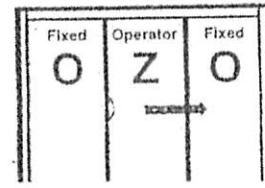
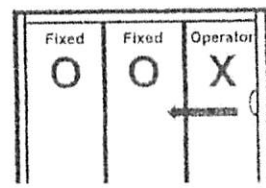
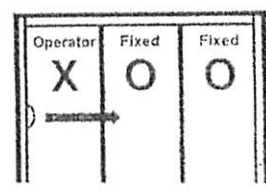
Page of

Invoice#	
<b>Ideal Use Only</b>	

Qty	Door / Size	Color	Operation	Grid / Glass		Hardware Options	Optional Accessories										
				Flat or Contour (10 Lite, 15 Lite, 20 Lite or QA)	Brass or Pewter Panel (10 Lite, 15 Lite, 20 Lite or QA)		Triple Glazed (Dbl. LowE w/ Argon)	*Lift & Tilt Privacy Blinds-Specify Handle.	Stainless Pkg.	Footlock (Linen)	Footlock (Black)	Guardian Top Lock (Linen)	Security Bar	Pet-Friendly Screen Mesh	Deluxe Screen	Nailing Fin	
	BUCKINGHAM-ECO <small>premium vinyl patio door series</small> <b>Buckingham Eco</b>  Model or Exact Door Size	<u>Linen</u> Sahara Brown/Linen Clay/Linen Bronze/Linen	<u>2-Panel</u> (RH or LH or KD) Available Assembled or Knockdown  <b>3-Panel</b> Please specify operation for 3-Panel Doors as shown in photos below. Available assembled up to a maximum of 9080  <b>4-Panel</b> (Bi-Parting) All doors shipped KD	Flat or Contour (10 Lite, 15 Lite, 20 Lite or QA)	Brass or Pewter Panel (10 Lite, 15 Lite, 20 Lite or QA)	Triple Glazed (Dbl. LowE w/ Argon)	*Lift & Tilt Privacy Blinds-Specify Handle.	<b>Elite (Standard)</b> <input checked="" type="checkbox"/> Lin Ext./Lin Int. <input type="checkbox"/> Black Ext./Black Int. <input type="checkbox"/> Lin Ext./Black Int. <input type="checkbox"/> Black Ext./Lin Int.	<b>Euro (with Key)</b> <input checked="" type="checkbox"/> Lin Ext./Lin Int. <input type="checkbox"/> Lin Ext./Bright Brass Int. <input type="checkbox"/> Lin Ext./Satin Nickel Int. <input type="checkbox"/> Lin Ext./Black Nickel Int.  <input type="checkbox"/> Black Ext./Lin Int. <input type="checkbox"/> Blk Ext./Blk. Int. <input type="checkbox"/> Blk Ext./Bright Brass Int. <input type="checkbox"/> Blk Ext./Satin Nickel Int. <input type="checkbox"/> Blk Ext./Black Nickel Int.  <input type="checkbox"/> Bright Brass Ext.& Int. <input type="checkbox"/> Satin Nickel Ext.& Int. <input type="checkbox"/> Black Nickel Ext.& Int.								
	*All doors will have LowE & Argon except units with Lift & Tilt Blinds which include LowE only.		Door operation is viewed from the outside	*You must specify handing for Lift & Tilt Blinds.  *Please check with office for availability.													
1	1 71 1/2 x 79 1/2	Linen	R → L 2 Panel	C	1515			Euro Linen in/out		<input checked="" type="checkbox"/>							
2																	
3																	

Ordered By: \_\_\_\_\_

Read Back By: \_\_\_\_\_



# MAJESTIC

Signature Series Vinyl Windows & Doors

## 307130

Account # \_\_\_\_\_  
 Name \_\_\_\_\_  
 Your Customer's P.O. Thomas  
 Phone ( ) \_\_\_\_\_  
 Address \_\_\_\_\_

Order Date: 4/15/21

JUL 19 2021

Page of

**Ideal Use Only**

Invoice# \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TOWN OF ORANGETOWN

LINE	Qty	Style	Size Exact Size Width x Height	Color L=Linen A=Almond S=S.Brown Ext. B=Bronze Ext. C=Clay Ext. Y=Cherry Int. O=Oak Int.	Screen			Frame			Dual Tech Lock Linen Almond Nickel Bronze	BUILDING DEPARTMENT					Glass Options				Grids					
					H A L F	F U L L	U L T R A	U L T R A	R E P L A C E M E N T	F I N F R A M E & J		F I N F R A M E N O	F a c t o r y m u l	L 0 0 s e	L 0 0 s e	L 1/2" m u l	E N E R G Y S M A R T	E N E R G Y G R E E N	E N E R G Y E L I T E	E S M G L A S S	E S M + G L A S S	R 5 G L A S S	T E M P E R E D	B Y M T E M P E R E D	* O B S C U R E	* R O T O C O M P O S I T E
1	1	DH	27 x 38 1/2	L	✓		✓							✓											C	6/6
2	1	DH	23 x 33	L	✓		✓							✓											C	4/4
3	8	DH	35 x 45	L	✓		✓							✓											C	8/8
4	1	DH	23 x 32 1/2	L	✓		✓							✓											C	4/4
5	2	DH	31 x 39	L	✓		✓							✓											C	6/6
6			x																							
7			x																							
8			x																							
9			x																							
10			x																							

IMPORTANT NOTICE: REVIEW OF ACKNOWLEDGEMENT IS CUSTOMER'S RESPONSIBILITY.  
 NO RETURN ON CUSTOM WINDOWS.

\*OBSCURE glass not available on the ESM Glass Package.

IF ACKNOWLEDGEMENT IS NOT RECEIVED WITHIN 24 HOURS, PLEASE CALL THE OFFICE.

www.mymajesticwindow.com

ORDER READ BACK BY: \_\_\_\_\_

Additional Comments: Head exp/sill angle on all

800.631.3400

ORDERED BY: \_\_\_\_\_

f: 800.758.7528

e: idealorders@idealwindow.com



**NORTHERN**  
Windows • Siding  
Roofing • Insulation

Northern Windows Siding Roofing and Insulation

2537 Route 17M • Goshen, NY 10924

Tel: (845) 294-4444 • Toll free: 1 (800) 827-0107 • Fax: (845) 294-2524

Email: info@northernwindows.com

R/M by: \_\_\_\_\_ **RECEIVED**

Date: \_\_\_\_\_ JUL 19 2021

Customer: Mano & Mary Thomas  
Address: 1 Hauser Terrace  
City/Town: Tappan  
Phone (Home): \_\_\_\_\_ (Cell): \_\_\_\_\_

Lead Test: YES or NO TOWN OF ORANGETOWN  
BUILDING DEPARTMENT

Lead Job: YES or NO

Install Date: \_\_\_\_\_

Installer: \_\_\_\_\_

Room	Window Style	Frame T.T.T.	Grills (C-F)	Screens (H-F)	Obscure / Temp	Notes:
1 Din	DH	23 x 54 1/4	4/4	Full		<p><b>EXTERIOR</b></p> <p>CAPPING: Y - N    COLOR: _____</p> <p><b>INTERIOR</b></p> <p>CLAM: _____</p> <p>COLONIAL: _____</p> <p><b>LUMBER LIST</b></p>
2 ↓	PW	50 x 54 1/4	20	↓		
3 ↓	DH	23 x 54 1/4	4/4	↓		
4 ↓		35 x 51	8/8	↓		
5 Liv		35 x 51	↓	↓		
6 ↓		35 x 51	↓	↓		
7 ↓		35 x 51	↓	↓		
8 Fam		34 1/2 x 51	8/8	↓		
9 Fam		34 1/2 x 51	8/8	↓		
10 Kit		27 x 38 1/2	6/6	1/2		
11 Bath Powder Room		23 x 33	4/4	Full		
12 Bath Main Bath		35 x 45	8/8	↓		
13 Bed 1		35 x 45	↓	↓		
14 Bed 1		35 x 45	↓	↓		
15 Bed 2	↓	35 x 45	↓	↓		

Special Instructions for Installer: \_\_\_\_\_

# of days needed: \_\_\_\_\_

C.O.D. \_\_\_\_\_

Exterior Windows: Wood / Metal / Stee / Aluminum / Other

Color \_\_\_\_\_

Bay / Bow Windows: Jamb: \_\_\_\_\_ Degree: \_\_\_\_\_

Roof: Y - N

Metal  
Shingle \_\_\_\_\_



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Roofing • Insulation

Northern Windows Siding Roofing and Insulation  
2537 Route 17M • Goshen, NY 10924  
Tel: (845) 294-4444 • Toll free: 1 (800) 827-0107 • Fax: (845) 294-2524  
Email: info@northernwindows.com

R/M by: \_\_\_\_\_

Date: \_\_\_\_\_

Customer: Thomas  
Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_  
Phone (Home): \_\_\_\_\_ (Cell): \_\_\_\_\_

Lead Test: YES or NO

Lead Job: YES or NO

Install Date: \_\_\_\_\_

Installer: \_\_\_\_\_

Room	Window Style	Frame T.T.T.	Grills (C-F)	Screens H-F	Obscure / Temp	Notes:
1 Bed 2	DT4	35 x 45	8/8	Full		<p><b>EXTERIOR</b> CAPPING: Y - N COLOR: _____</p> <p><b>INTERIOR</b> CLAM: _____ COLONIAL: _____</p> <p><b>LUMBER LIST</b></p>
2 Bed 3		35 x 45				
3 MBR		35 x 45				
4 MBR		35 x 45				
5 MBath		23 x 32 1/2	4/4			
6 Base		31 x 39	6/6			
7 Base	↓	31 x 39	6/6	↓		
8						
9						
10						
11						
12						
13						
14						
15						

Special Instructions for Installer: \_\_\_\_\_

# of days needed: \_\_\_\_\_

C.O.D. \_\_\_\_\_

Exterior Windows: Wood / Metal / Stee / Aluminum / Other

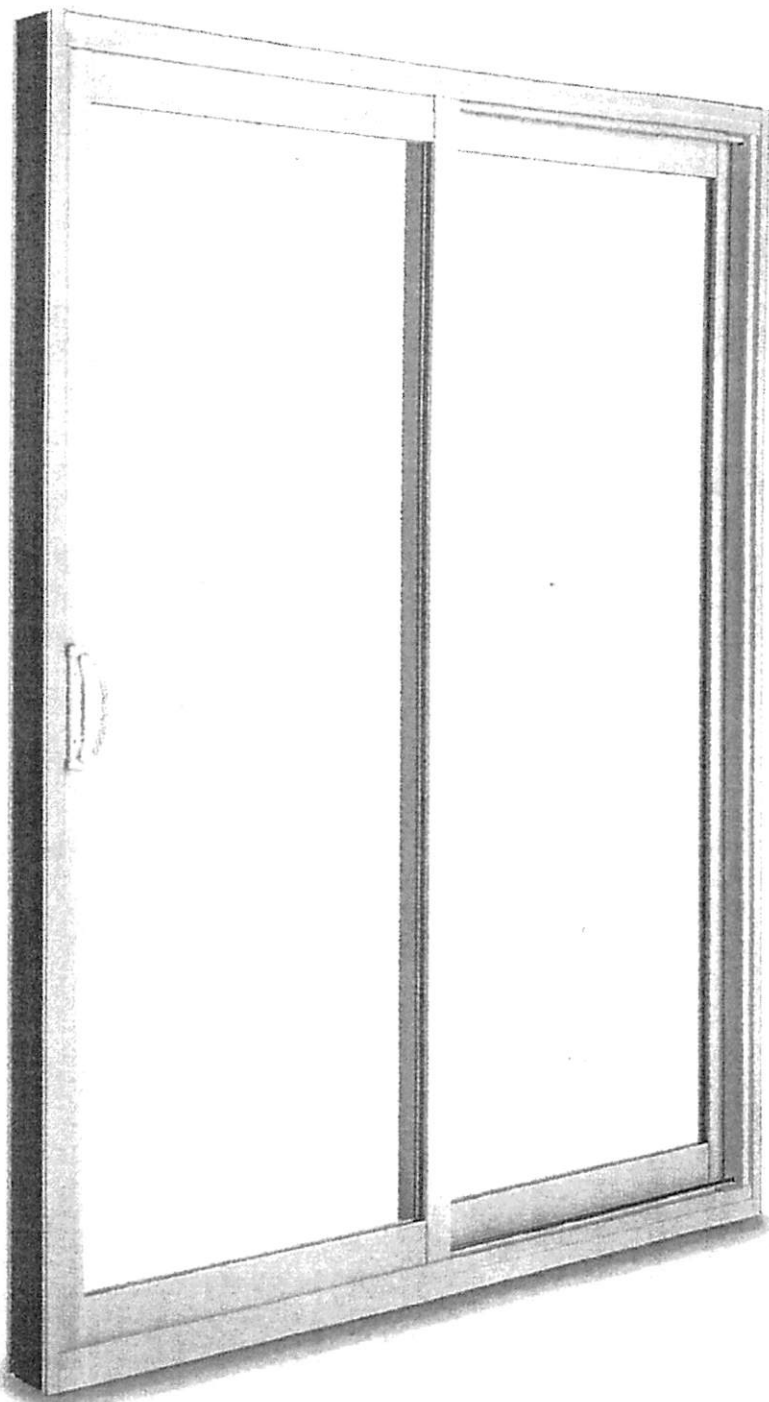
Color \_\_\_\_\_

Bay / Bow Windows: Jamb: \_\_\_\_\_ Degree: \_\_\_\_\_

Roof: Y - N

Metal  
Shingle \_\_\_\_\_

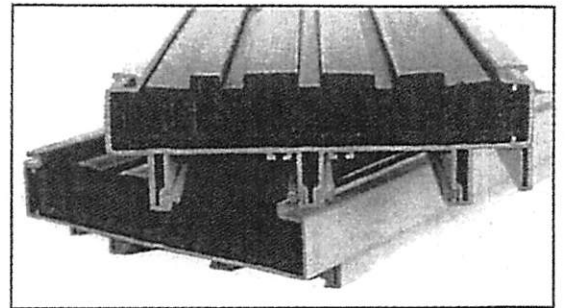
# The Sunview Revolution.



## The Buckingham Eco-Series Composite Patio Door

Sunview is very proud of the Buckingham Eco Patio Door, developed with our partner, VisionEcoproducts.

An industry first, the Eco door replaces a wood-buck system with a revolutionary rice hull material combined with recyclable polyolefin thermoplastic. As a result the Buckingham Eco-Series Door is stronger and resists mould growth, a problem that can develop in woodbuck doors.



It also offers:

- Enhanced fire resistance
- Improved strength properties
- Improved thermal resistance
- Will not warp ensuring continual smooth operation

It's something to feel very good about. The composite material, part of a line of new building products, meets market demand for a reduced environmental footprint.

**The right product for the right time.**



The right product for the right time.

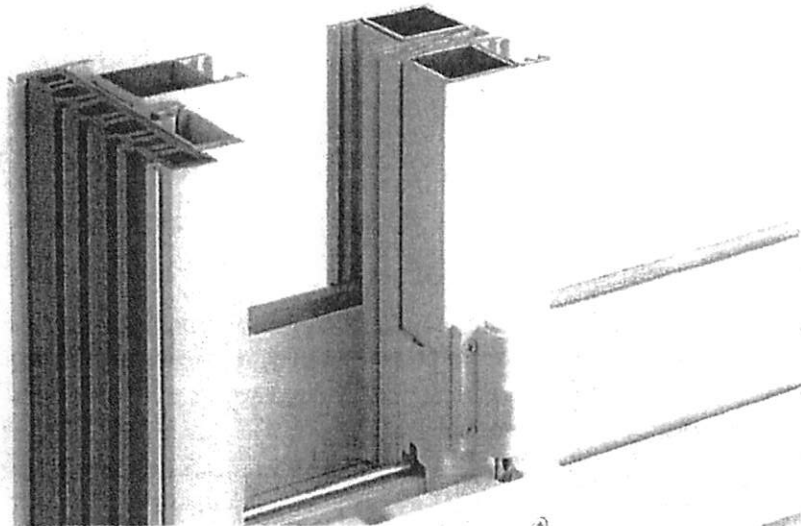
# Standard Features

## ECO Frame

- 5<sup>7</sup>/<sub>8</sub>" mechanically fastened vinyl clad ECO frame
- Components easily installed and replaceable
- 3 weather seals
- Anodized screen track /stainless steel roller track
- 8 degree sill slope for optimal drainage

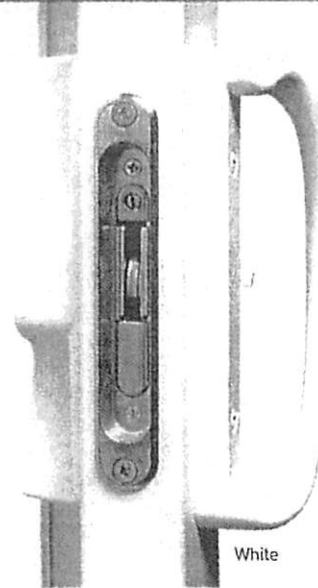
## Durable Sash

- Reinforced with steel to withstand higher wind loads
- Double perimeter seal for superior air-tightness
- Doors are easily and completely reversible
- Adjustable nylon tandem ball-bearing rollers
- 1" sealed units for optimal thermal performance



## Standard Hardware

Elite handles come as the standard door hardware. For added security, an optional keylock version or multi-lock version is available. Available in white, black, ivory or sandalwood.



## Optional Frame and Sash

- 1<sup>1</sup>/<sub>4</sub>", 2", or 3<sup>3</sup>/<sub>8</sub>" frame extensions
- 4<sup>1</sup>/<sub>2</sub>" sill plate
- Brick mold
- Sill extensions
- Stainless steel hardware kit

## High Performance Standard Glazing

Enhancing the outstanding thermal performance of every Sunview patio door is the high-performance glazing found in Low-E glass and Edgetech Super Spacer®

Stays cool  
in summer



Stays warm

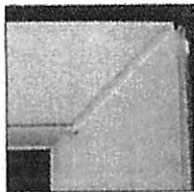
*31 U-factory*

## DOUBLE HUNG WINDOWS

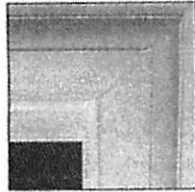
With superior quality and craftsmanship, our Majestic double hung window is built with a unique exterior design that emulates the beauty of a traditional wood window without the care and maintenance.

Each sash, effortlessly and easily slides open, allowing you to let the outdoors in. Best of all, both sashes tilt-in for safe and easy cleaning within the home.

Whether used individually, in multiples, or combined with picture windows, Majestic double hung windows are sure to complement your home for years to come.



Shadow grooved welds provide a clean and finished look.



Our sash and frame has a millwork fit and finish, providing an elegant, stylish appearance.



Stylish locks provide airtightness and security.



### Optional EZ Turn & Tilt Lock

#### Integrated Sash Lock Hardware

One simple operation controls the unlocking and tilting of the double hung window.



Linen



Almond

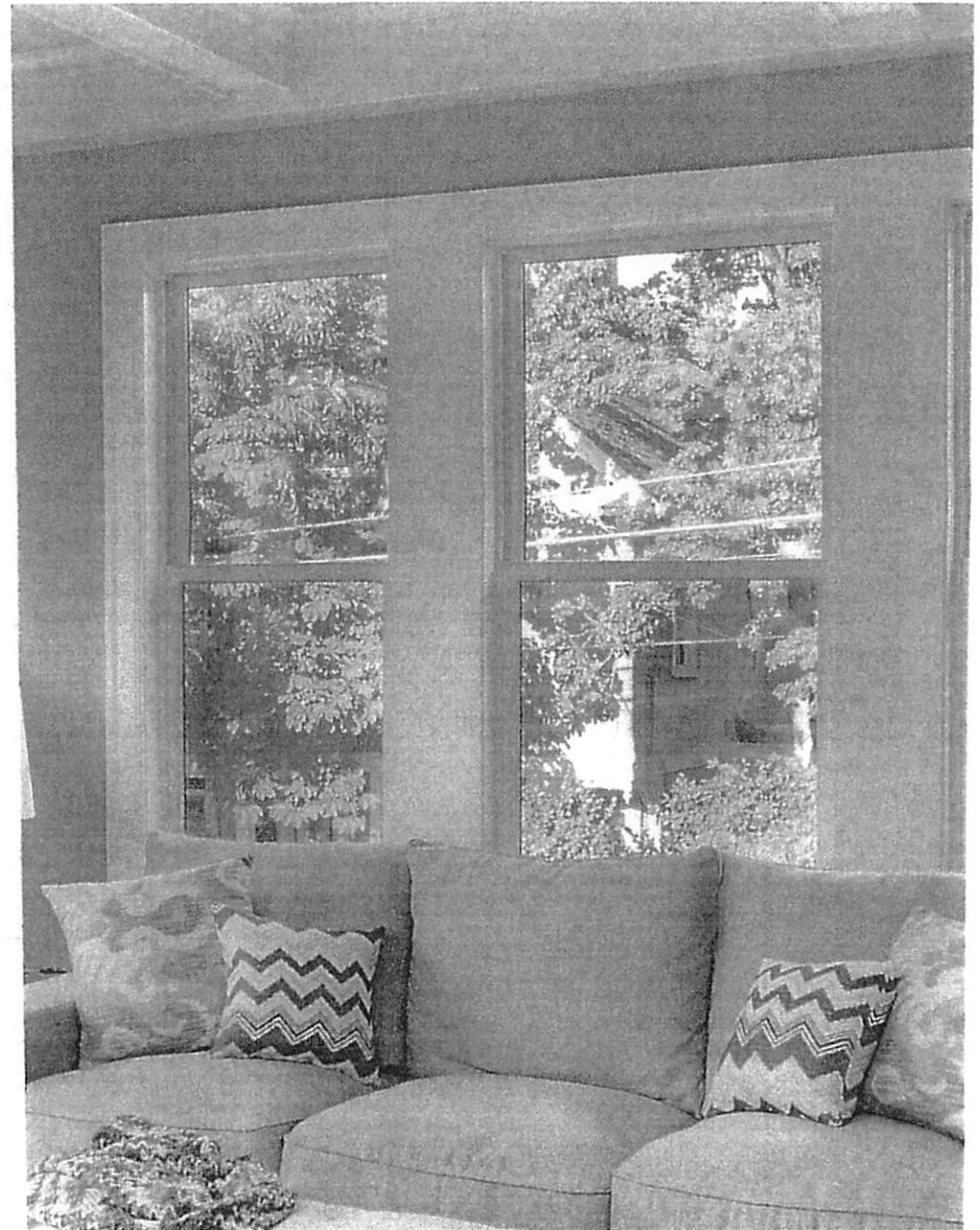


Brushed Nickel



Oil Rubbed Bronze

*\*Note: EZ Turn & Tilt locks are only available with steel reinforced lock rail.*



## DOUBLE HUNG WINDOWS

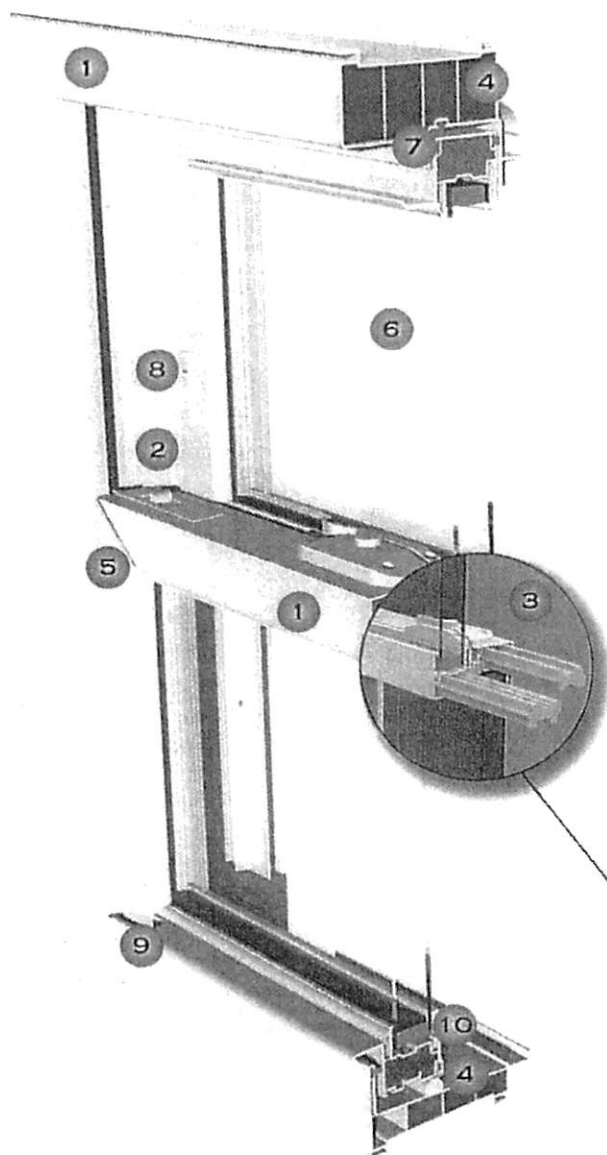
it's in the *details.*

- 1 Heavy duty multi-chambered extrusions provide structural integrity.
- 2 Minimal maintenance and easy operation with tilt-in features and a Teflon® coated constant force balance system.
- 3 I-Beam reinforcement is extremely strong and adds insulation value.
- 4 Foam filled frame and sashes\* add energy efficiency & comfort.
- 5 Shadow grooved welded sashes show a clean fit and finish.
- 6 Double strength glass\* is heavier and far more durable than single strength.
- 7 Advanced, triple weather-stripping seals for top efficiency performance.
- 8 Heavy duty night latches offer ventilation.
- 9 Low profile sill, sash and frame provides less vinyl and more glass.
- 10 Extruded locking aluminum half screen frame with heavy duty aluminum corner reinforcements for years of worry free performance.

### Reinforced Stiffener **I-BEAM**


All Majestic windows have reinforced lock and keeper rails which provide structural integrity.

\* Double strength glass and foam filled frames and sashes only available on select glass packages. Please refer to our Glass Package details or confirm with your sales representative.





We go above and beyond to meet and exceed ENERGY STAR® requirements.

 <b>Ideal Window Mfg.</b> Majestic Double Hung Window IAP-M-25-00166-00001 Vinyl Foam Filled Frame and Sash Energy ELITE Package	
ENERGY PERFORMANCE RATINGS	
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient
<b>0.27</b>	<b>0.22</b>
ADDITIONAL PERFORMANCE RATINGS	
Visible Transmittance	Air Leakage (U.S./I-P)
<b>0.49</b>	<b>≤ 0.3</b>

### U-Factor

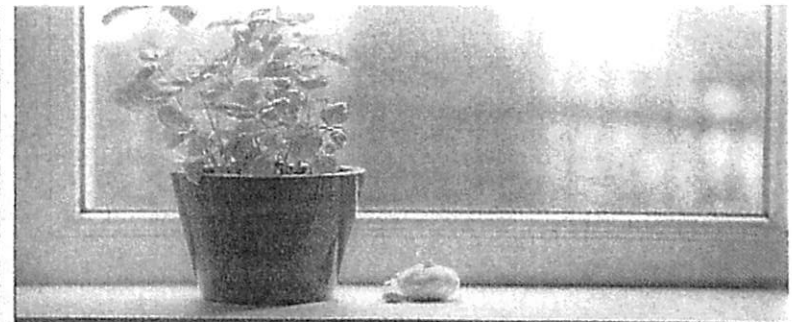
U-Factor ratings generally range from .20 to 1.20. The lower the U-Factor, the less energy you will use to heat your home.

### Visible Transmittance

Visible Transmittance (VT) measures the amount of light that enters through your windows. The higher the visible light transmission, the more light can get through your windows.

### Solar Heat Gain Coefficient

A lower Solar Heat Gain Coefficient (SHGC) means less solar radiation passing through your window. The lower the Solar Heat Gain Coefficient rating means your home will remain cooler during the summer months.



### Air Leakage

Every residence experiences some level of air infiltration as a result of air pressure differences between the inside and outside of the home. Keeping air leakage to a minimum is essential for attaining energy efficiency. Structurally strong, tight windows ensure lower heating bills and fewer drafts. To pass the air leakage test and achieve NFRC certification, the window must meet the requirements of a 0.3 rating or better. In accordance to NFRC all labels will read less than or equal to 0.3. Our Majestic double hung has an actual air leakage rating of 0.02!

## High Performance Glass Packages Maximize Your Energy Savings Year Round

### THERMAL PERFORMANCE COMPARISON

	Double Hung		Dbl Slider		Casement		Picture	
	U-Factor	SHGC	U-Factor	SHGC	U-Factor	SHGC	U-Factor	SHGC
Energy Smart	0.29	0.28	0.29	0.28	0.27	0.24	0.28	0.30
Energy Green	0.27	0.28	0.27	0.28	0.26	0.24	0.27	0.29
Energy Elite	0.27	0.22	0.27	0.22	0.26	0.19	0.27	0.23
ESM	0.23	0.26	0.25	0.27	0.22	0.23	0.23	0.28
R5	0.20	0.24	0.20	0.23	0.19	0.21	0.19	0.25

Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100-04. Total unit performance is based on windows without grids.

### Glass Package Details

Energy Smart: Dual pane 7/8" single strength I.G. with soft coat LowE, Argon Gas, and Ultra Intercept Spacer.

Energy Elite: Dual pane 7/8" single strength I.G. with Triple Silver LowE, Argon Gas, Foam Filled Frame and Sashes and Ultra Intercept Spacer.

Energy Green: Dual pane, 7/8" double strength I.G. with softcoat LowE, Argon Gas, Foam Filled Frame and Sashes and an Ultra Intercept Spacer.

ESM: Dual pane, 7/8" double strength I.G. utilizing a softcoat LowE and a hard coat LowE, Argon Gas, Foam Filled Frame and Sashes and Ultra Intercept Spacer.

R5: Triple pane 7/8" single strength I.G. with two surfaces of softcoat LowE, a blend of Argon & Krypton Gas, Foam Filled Frame and Sashes, and Tin Plated Intercept® Spacer.



**Buckingham**  
Patio Door Series

Rev 3 Nov 2010

## Detailed installation instructions

RECEIVED

JUL 19 2021

TOWN OF ORANGETOWN  
BUILDING DEPARTMENT

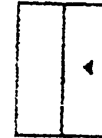
Door elevations are shown from the OUTSIDE VIEW.



XO Door

'X' denotes the active or moving panel(s).

'O' denotes the inactive or fixed panel(s).



OX Door

All 2 panel doors between 72" to 84" high are fully reversible. The locking hardware on the operating panel is located at the mid-point of the panel unless otherwise requested. For 3 and 4 panel doors, refer to the supplemental instruction sheet. All other doors are handed and are not reversible.

**NOTE:** If you have purchased a pre-assembled door, we recommend removing the panels before moving the door around the construction site. Rough handling may damage joint assemblies which could result in reduced product performance.

### ROUGH OPENING

The rough opening should be made 1/2" wider and 1/2" higher (+/-1/8" each way) than the actual door frame size. (Refer to catalogue for standard frame sizes.) The sill or base of the opening must be solid, level, and of sufficient width and depth to support the entire door sill in a continuous and uniform manner. It is important that the opening be plumb and square as the door will not perform to its potential if installed into an improperly prepared opening.

### MAIN FRAME ASSEMBLY (for Knocked Down (KD) doors)

If you have purchased an assembled door, go to "Frame Installation" step.

The frame consists of 4 main members:

Head, Sill, Right Jamb, Left Jamb.

All main frame members are machined so that they may be assembled in only one way. Lay out the framing members as shown on Diagram A.

Ensure that the foam gaskets attached at the top and bottom of the jambs are in good condition and replace if they appear torn or defective.

For Victorian and Buckingham, use the #8 X 2-1/2" screws provided to fasten the head and sill to the jambs through the factory drilled holes making sure the screws are drawn tight. For Buckingham Eco, the frame screws are #10 x 3".

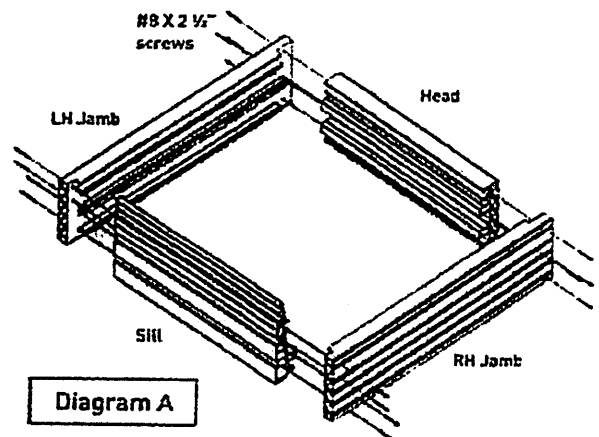


Diagram A

If exterior brick mold, nailing fin, sill extensions, or interior jamb and sill extensions are being used, refer to the supplemental instruction sheet before proceeding with the frame installation.

## FRAME INSTALLATION

The main frame is always installed with the sill sloping to the outside. Due to varying site conditions, installation materials are not supplied with the door.

Diagram B shows the recommended configuration to install the sill.

The sill must be installed level and uniformly supported from end to end and from front to back. Use a level, and use solid shims if necessary to compensate for unevenness in the opening.

It is highly recommended that screws are not driven vertically down through the sill to prevent possible leaks. The optimal method is to install an angle or sill plate on the subfloor. Apply Blue Skin along the sill plate to the outside

of the sill. If the sill extends beyond angle or sill plate, install shims to level the sill. Apply a heavy bead of good quality urethane caulking along the full width of the sill opening inset  $\frac{1}{2}$ " from the line the sill will be installed to, excluding sill extension if provided, so that front of the sill will embed into the sealant. (See Diagram B) Insert the main frame into the opening and centre the door frame leaving equal clearance at both jambs.

In the event that the project specifications require the use of vertical screws to fasten down the sill, it is the responsibility of the installer to pre-drill pilot holes for these screws. The pilot holes should avoid penetrating the drainage channels inside the sill (see arrows in Diagram B). Cap plugs are recommended for aesthetic reasons to fill the pilot holes and to conceal the installation screws.

The header must be anchored at each meeting or parting rail, but this will be accomplished **AFTER** panel installation during the application of the anti-lift block.

The jambs must be fastened within 6" of each corner and at mid height on doors up to 80" high. Additional fastening is required on taller doors. At this time, only the top and bottom screws on the operating side jamb are to be installed. Other installation screws will be installed during hardware fastening.

Set shims behind frame installation holes to make the main frame plumb and square then temporarily fasten the frame to the surrounding structure. Using a level and measuring diagonally, check that the frame is straight, plumb and square, make adjustments to the shims if necessary, and securely fasten all screws, with the exception the mid span screw on the operating panel side. Buckingham Eco doors may require extra attention with shims at center of jambs and head.

**NOTE:** For installations in high rise buildings or high wind areas, the quantity, size, type, and engagement of the fasteners and the supporting shims must be engineered and is the responsibility of the installation contractor.

## INSTALLING THE FIXED PANEL ADAPTOR AND END CAP

The fixed panel adaptor is shipped attached to the sill and must be positioned to the fixed panel side by sliding it tight to the fixed jamb following fastening of the frame to the structure. To hold the fixed panel adaptor in place, insert and attach the "End Cap" against the open end of the fixed panel adaptor as shown on Diagram C. Ensure that the hole and screw securing the "Fixed Panel End Cap" to the sill is caulked and water tight.

Install the  $\frac{3}{4}$ " wide carpet plug on top of the end cap covering the screw. Remove the  $\frac{1}{2}$ " cap from drain on fixed panel side. On moving panel side, leave the drain capped.

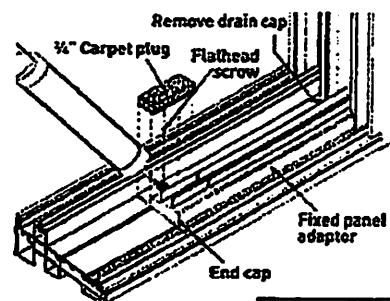


Diagram C

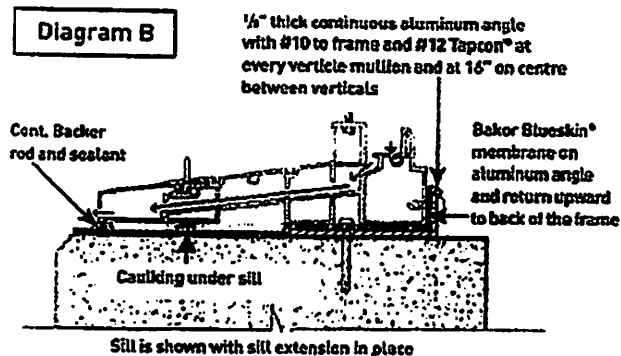
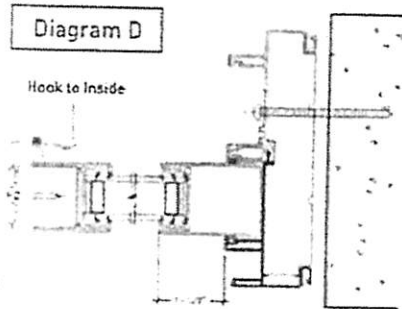


Diagram B



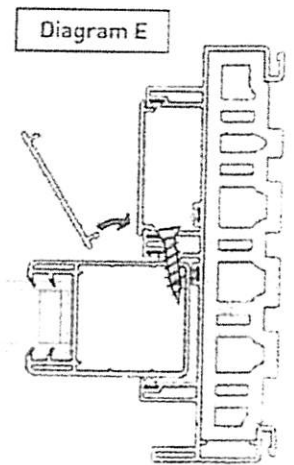
## INSTALLING THE FIXED PANEL

The fixed panel is supplied with screw covers at the top and bottom of the meeting rail. The plain cut cover is to be located at the bottom of the panel and the notched cover is to be located at the top. Remove and reverse to suit your door handing if necessary. Slide the screw covers away from the top and bottom of the meeting rail before installing the panel into the frame.

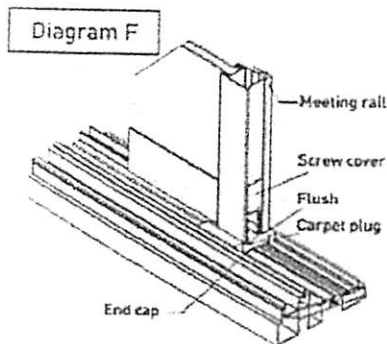


Lift the fixed panel into the centre track of the frame head and carefully lower onto the fixed panel adaptor on the sill. Push the fixed panel securely and completely into the jamb as shown on Diagram D. The meeting rail with interlocking hook and the wool pile weather stripping should now be in the middle of the door facing inside.

Fasten the fixed panel to the jamb by installing five #8 X 1" screws through weather-stripping channel into the jamb leg as shown in Diagram E. Install jamb pocket cover to close off the interior jamb pocket and hide the screws.



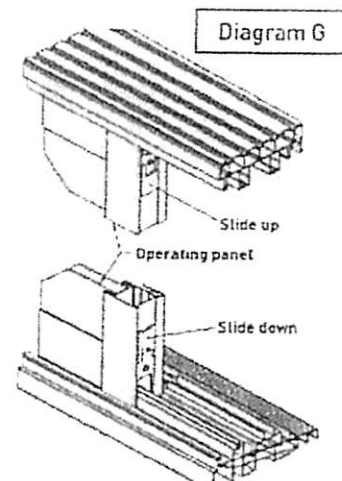
Tap the screw covers at the top and bottom of the free end of the fixed panel up and down against the head and sill. The plain cut cover at the sill should finish on top of the Fixed Panel End Cap as shown on Diagram F. If it slides downwards beyond the end cap, this indicates that the fixed panel is not fully engaged into the jamb. Re-install the fixed panel if necessary.



## INSTALLING THE OPERATING PANEL

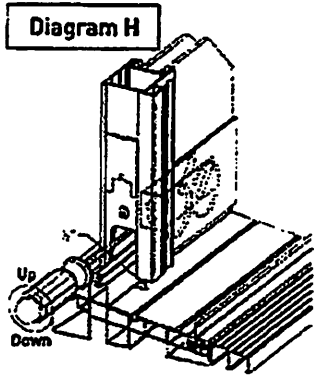
Firstly, depending on the handing or the door, install the rollers into the bottom of the operating panel into the pre-drilled holes provided using the #8 X 1/2" screws provided. Ensure that the adjustment screw head on the roller assembly is facing outwards towards the end of the panel.

The operating panel is supplied with screw covers at the top and bottom of the meeting rail. The cover with the rounded notch is to be located at the bottom of the panel and the square notch is to be located at the top. Remove and reverse to suit your door handing if necessary. Slide the screw covers away from the top and bottom of the meeting rail before installing the panel into the frame.



Lift the active panel into the inside track of the frame head and carefully lower the panel onto the roller track of the sill frame as shown on Diagram G.

Using a hand held screw driver, adjust the rollers up or down so that the exterior bottom of the panel is riding  $\frac{1}{2}$ " above the sill. See Diagram H. Turn the screw clockwise to raise the panel or counter clockwise to lower the panel as shown on Diagram H. NOTE: We recommend lifting the panel slightly when adjusting the wheels for ease of turning and to prevent thread stripping the adjustment mechanism.



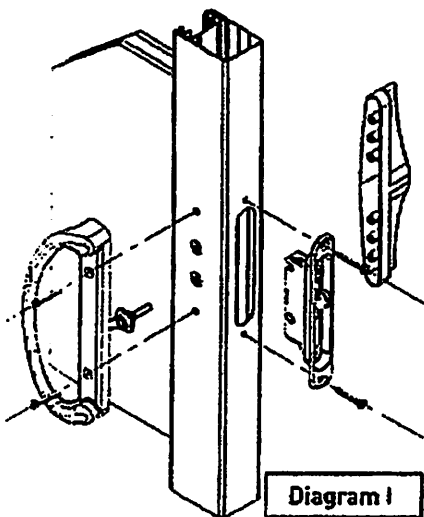
Slide the panel in the closing direction to within  $\frac{1}{8}$ " of the jamb. The gap between the panel and the jamb should be uniform from top to bottom. If not, adjust the panel up or down at one corner until the panel aligns to the jamb. If the jamb is bowed, remove the installation screws, adjust the shims, and re-fasten.

Once the panel wheels have been adjusted, tap the screw covers at the top and bottom on the side of the meeting rail up and down towards the head and sill.

## HARDWARE AND KEEPER INSTALLATION

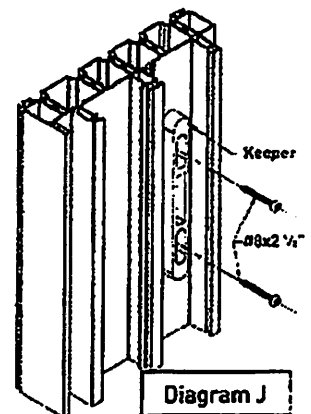
For KD doors, the handle and lock set is packaged separately with its own instructions. Refer to these instructions to install the handle and lock.

The standard handle for Victorian, Buckingham and Buckingham Eco doors is the Elite handle shown in Diagram I. Install the lock mechanism into the pre-drilled slot in the side of the operating panel with the adjustment screw to the top and the striker hook facing upwards. Insert the thumb lever into the slot on the inside of the lock mechanism as shown on Diagram I.



Install the interior and exterior pull handles with the screws provided from the inside. Ensure the exterior pull is installed as shown on Diagram I.

To locate the latch keeper on the jamb, open the operating panel, nest the keeper into the opening on the lock mechanism, and engage the thumb turn to hold the keeper within the lock mechanism. Apply a piece of 2 sided tape to the back of the keeper and firmly close the panel into the jamb. Disengage the thumb turn and slide away the operating panel. The latch keeper should be held in the jamb by the 2 sided tape. Mark the keeper location with a pencil and remove the tape.



Install solid shims between the jamb and the opening and attach the keeper to the jamb and into the surrounding structure with two  $2 \frac{1}{2}$ " screws as shown on Diagram J.

NOTE: Install the screws through the centre of the slots in the keeper to allow for future vertical adjustments if necessary.

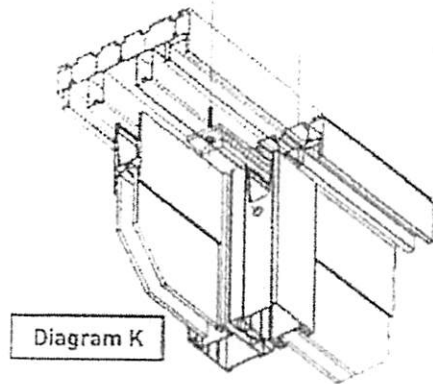
## ANTI LIFT BLOCK/ MEETING RAIL HEAD PLUG INSTALLATION

After all panels are installed in the frame and with the operating panel in the open position, insert the anti-lift block with the "carpet plug" facing down into the head between the two tracks and slide it horizontally until it is above the fixed panel meeting rail.

Insert shims between the head and the surrounding structure above the meeting rail ensuring that the head frame is true and not bowed.

Using #8 X 2 1/2" screws provided fasten the block through the hole provided, through the head frame, the shims, and into the surrounding structure. Close the operating panel and fasten the other end of the block in the same manner from the inside. See Diagram K.

If installed correctly, it should not be possible to lift the panels out of the door, and the "carpet plug" will close the space between the fixed and operating panels.

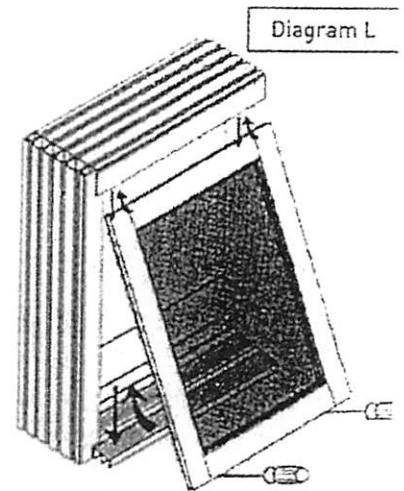


## SCREEN INSTALLATION

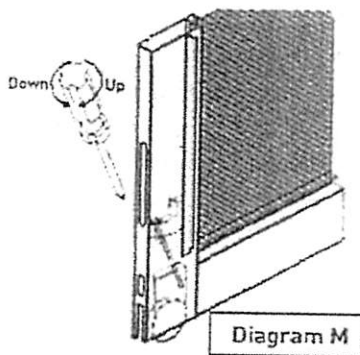
Insert the screen in the outside track of the frame head, swing the bottom of the screen towards the sill, then depress the bottom

rollers with a flat head screw driver or spatula and snap the rollers over the sill screen track as shown on Diagram L.

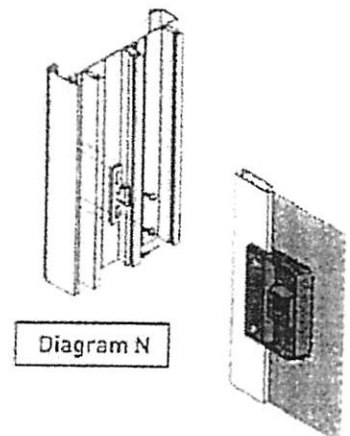
Slide the screen in the closing direction to within 1/4" of the jamb. Visually, the joint between the screen and the jamb should be uniform from top to bottom.



Using a screwdriver adjust the rollers on the bottom of the screen upwards or downwards to align the screen as shown on Diagram M. Adjust the top rollers just enough to snug the screen in the top track and allow easy rolling.



With the striker latch in the open position, slide the screen close to the jamb (or astragal mullion on OXO doors), mark the location of the top of the striker in the jamb, and position the keeper within the jamb so that the striker will cleanly engage the keeper. Attach the keeper to the jamb using the self drilling screws provided. Ensure the latch securely holds the screens locked and adjust the keeper up or down as necessary.



## CAULKING

Use a good quality building sealant that is compatible with the vinyl surfaces of the sliding door and the surrounding structure. It is important that all surfaces to be caulked are free of dirt, dust, and other contaminants and are well cleaned with an isopropyl alcohol solution followed by a clean dry wipe. Depending on the sealants being used, a primer may also be necessary. Check the application with your sealant supplier.

The use of backer rod is recommended to prevent the caulking from shrinking into the joint (see Diagram B).

**CAUTION: If expanding foam insulation is being used to fill the void between the door frame and surrounding structure, we recommend the use of good quality LOW EXPANDING FOAM material only applied by an experienced applicator. The use of high expanding foam can bow and deform framing members resulting in poor performance and difficult operation of the door.**

## CLEANING

Remove all debris and vacuum all dirt and filings from the sill. **Debris on the sill or in the drainage channels will prevent the door from performing properly.** See Diagram B for an indication of the location of the drainage channels.

Using a mild soap and water solution, clean all vinyl and glass surfaces. Do not use solvents or harsh cleaners as they may damage the finish surfaces.

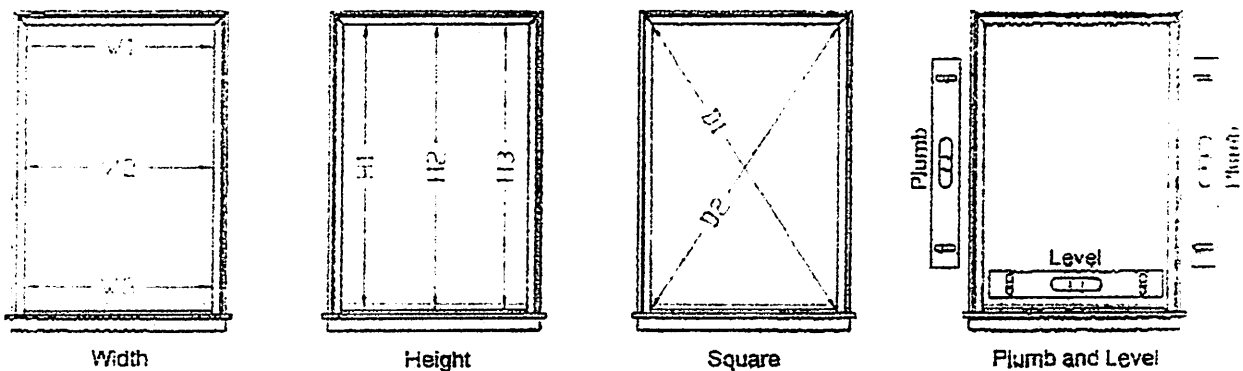
## REVERSING

Doors with a center-punched lock rail (i.e. the lock is located equidistant from the top and bottom) can be reversed to open in the opposite direction.

First remove screen and the anti-lift block (see Diagram L and Diagram K). Remove the operating panel and swap the screws covers in the interlocking rail of the operating panel (Diagram G). Remove both lock keepers from the lock jamb. Unclip the pocket cover using a straight edge or screwdriver (see Diagram E). Unscrew and remove the fixed panel. Swap the screw covers on the interlocking rail of the fixed panel. Remove the fixed panel end cap (see Diagram C). Unclip the fixed panel adaptor and install on the opposite side of the sill. Reinstall the fixed panel end cap. Install the fixed panel and screw in place (Diagram E). Install a jamb screw into the support structure of the building on the fixed jamb side (see Diagram D). Clip in the pocket cover (Diagram E). Install the operating panel and keepers. Install the anti-lift block. Install the screen. Adjust the rollers and confirm that the door functions properly. Use screw caps to cover any exposed screw heads or touch up holes with caulking.

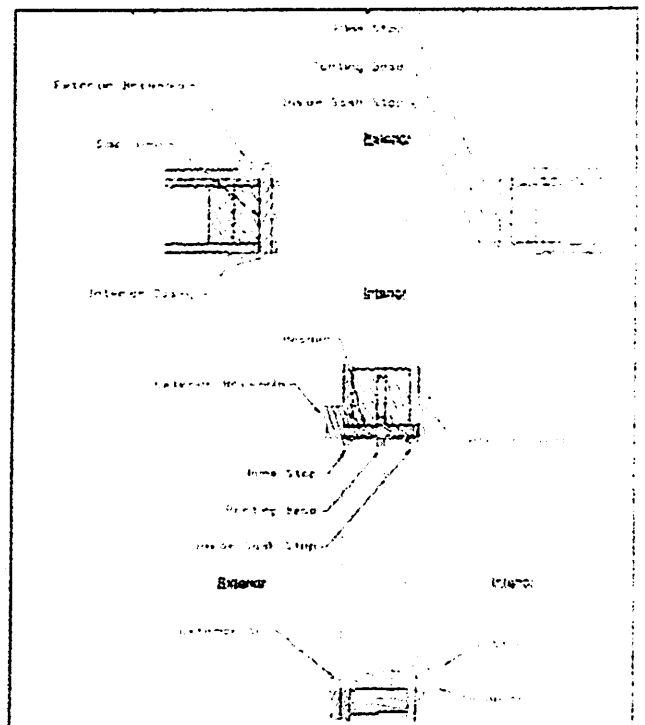
**Read these instructions completely before installing your new window, they are meant to be a general outline and do not cover every construction application.**

1. Before removing the old unit, inspect the new window for damage and make sure you have all of its parts. Also, check the size of the new window and make sure it is made to spec. Measure the size of the opening width at the top, middle and bottom and the size of the height at left, center and right to ensure that the window will fit within the smallest of the measurements. Measure the opening diagonally to make sure the window can be installed square and plumb within the opening. (See the included Replacement Window Measurement Instructions sheet for more detail)



If there is an issue with any of the above, **DO NOT INSTALL** the window and contact your window and door distributor.

2. Remove the inside sash stops and the inside sash from the existing window. (Take care not to damage the stop if it is to be reinstalled). Remove the parting bead and the outside sash, leaving the blind stop for the new window installation. Make sure that the perimeter of the opening is clean of debris and that all pulleys and any hardware from the old window are removed and all of the voids are sealed. Also make sure the sill is level.
3. Wrap the entire perimeter of the window with insulation before putting it into the opening. If using polyfoam, make sure the Double Hung frame is shimmed up at the jambs on the sill to relieve the pressure between the foam and the sill to prevent the sill from crowning. (A Slider frame sill must be level and supported the whole length.)



## 8000 Series - Replacement/Retrofit DH-SL-PW-Case Window - Interior Pocket Installation

Not all window types can be installed into every wall application in all areas. Consult with your local building code official for applicable building codes and regulations. Local building code requirements supersede recommended installation instructions.

Note: Installations where the sill is higher than 35 feet above ground level, must be designed by an architect or structural engineer. Failure to install windows into square, level and plumb openings could result in denial of warranty claims for operational or performance problems.

### TOOLS

- Installation Screws (Included)
- Tape Measure
- Level
- Screwdriver
- Caulk & Caulking Gun
- Hammer
- Flat Pry Bar
- Utility Knife

### SAFETY

- Do not work alone. Two or more people may be required.
- Use safe lifting techniques.
- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Use proper protective gear (gloves, safety glasses, ear protection, etc.)
- Use power tools safely following manufacturer operating instructions.
- Use caution when working on ladders or at elevated heights.
- Take proper precaution if lead paint is suspected (commonly used prior to 1978). Information regarding regulations and lead protection can be found at [www.epa.gov/lead](http://www.epa.gov/lead)

### Material & Handling

- Handle in a vertical position. Do not carry flat or drag on the floor.
- Do not put stress on joints, corners or frames
- Store window in dry, well-ventilated area in vertical, leaning position. Do not stack horizontally.
- Protect from exposure to direct sunlight during storage.

### DISPOSAL & RECYCLING

Most Construction & Demolition (C&D) debris is nonhazardous and is not regulated by EPA. Many states have specific definitions of C&D debris that effectively determine what materials are allowed to be disposed of in nonhazardous waste landfills & C&D landfills. Even if federal or state regulations do not apply to your business, you should make efforts to keep the hazardous components of the wastes you generate out of landfills to conserve natural resources and protect human health and the environment. Suggestions outlined at the following link <http://www.epa.gov/osw/inforesources/pubs/infocus/rif-cd.pdf> identify steps you can take to reduce, reuse, and recycle your waste.

4. Place the window into the opening on top of the shims and put a level on the sill to make sure the sill is level and not crowned.
5. Once the sill is level, loosely install the installation screws into the pre-drilled holes in the frame. Check the frame for square by measuring diagonally from corner to corner. On a double hung, adjust the alignment screws until the jambs are plumb from top to bottom. On a slider, use shims to plumb the jambs. Now finish tightening the installation screws taking care not to distort the frame. (On a slider or wide double hung, shim the head of the frame if necessary so that it is level and install an installation screw. Wider windows might require more than one screw).
6. Recheck the frame for square and plumb and make sure the sashes operate and lock properly. (Slider sashes should lift out easily). Also make sure all weatherstripping is making contact and the reveals between the sash and frame are even.
7. On the outside, cut the sill trim to fit between the blind stops and tap it into the accessory groove. (If a slider is being installed on a sloped sill, shim the outside of the frame to support the weight of the sash, and then install the sill trim).
8. Caulk around the perimeter of the frame on the outside with an approved sealant. Where needed, trim and cap. Do not cover the weep holes on a slider or fixed window.
9. Finally, finish off the inside of the window.

# **Left-Hinge Installation Instructions**

as viewed from the outside.





# Left Hinge Installation Instructions

Please turn poster over for Right Hinge Instructions.  
 Instrucciones para la instalación de las bisagras del lado izquierdo

Scan with mobile device to see a video of EasyHang® installation.  
 Escanee con el dispositivo móvil para ver un video de la instalación EasyHang®



INSTALLATION QUESTIONS?  
 MISSING PARTS?  
 REPLACEMENT PARTS?  
**DON'T GO BACK TO THE STORE!**  
 VISIT WWW.LARSONDOORS.COM  
 HOMEOWNER HELPLINE  
 1-888-483-3768

¿Tiene preguntas sobre la instalación?  
 ¿Piezas faltantes?  
 ¿Piezas de repuesto?  
**¡NO REGRESE A LA TIENDA!**  
 Visite [www.LARSONdoors.com](http://www.LARSONdoors.com)  
 LÍNEA DE AYUDA PARA EL PROPIETARIO RESIDENCIAL 1-888-483-3768

Please have the following information on hand when you call:

- 1 Warranty Registration number
- 2 Model of door
- 3 Size of the door
- 4 Color

Por favor tenga a mano la siguiente información cuando llame:

- 1 Número de registro de garantía
- 2 Modelo de la puerta
- 3 Tamaño de la puerta
- 4 Color



Read the complete installation instructions before proceeding with installation.

- Installation may require two people when lifting and installing the door
- Use appropriate protective equipment
- Children should not be allowed to play with the door
- Failure to install door properly could result in an injury

NOTE: Larson Manufacturing Company is not responsible for accidents or injury resulting from the use or installation of this product.

Lea las instrucciones completas para la instalación antes de proceder a realizarla.

- Puede ser necesario contar con dos personas para levantar e instalar la puerta
- Utilice equipo de protección adecuado
- No debe permitirse que los niños jueguen con la puerta
- No instalar la puerta adecuadamente podría causar lesiones

NOTA: Larson Manufacturing Company no se hace responsable por los accidentes o lesiones que resulten del uso o instalación de este producto.

## Parts List

## Lista de piezas

Storm Door / Puerta contra tormentas

Hinge Rail / Larguero de las bisagras

Registration Number / Número de registro

Expander / Expansor

Door Sweep / Barrido de puerta

3 Screw Covers / 3 tapas de tornillos

Drip Cap / Canal de goteo

Mortise Hole Cover / Cubierta del agujero de la mortaja

Latch Rail / Larguero del picaporte

Left and Right Rail Extender with Weather Strips / Extensor del larguero izquierdo y derecho con burletes

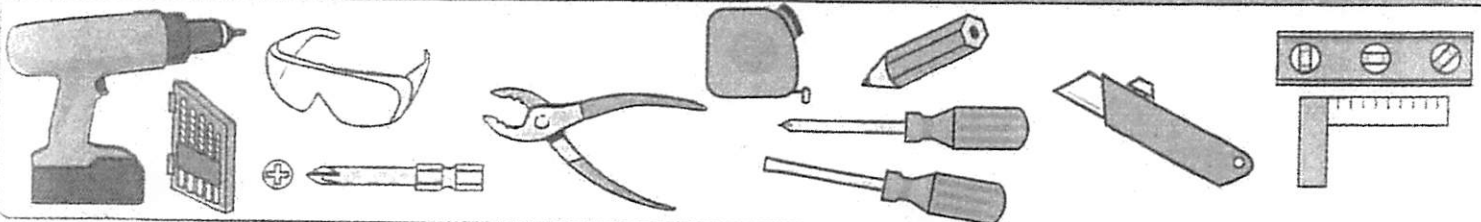
QuickFit™ Handle Set  
 SOLD SEPARATELY  
 Kit de la manija QuickFit™  
 VENDEN POR SEPARADO

Closer Kit and Installation Screws  
 El kit del brazo cerrador y tornillo de instalación

QuickFit™ Installation Kit  
 El kit de la instalación QuickFit™

## Recommended Tools

## Herramientas recomendadas



# 1 Prep Steps

## Pasos preparatorios

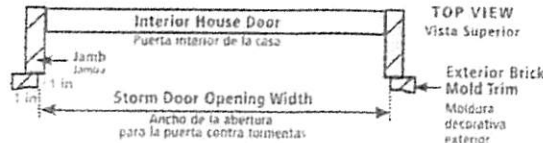
**1a**  
Confirm the hinge side of the storm door. Turn this poster over for right hinge installation. Your LARSON Reverso-Hinge storm door is designed for either right or left hinge installation. Oversize custom doors may not be reversible.



Left Hinge  
Bisagras a la izquierda

Confirme el lado de la bisagra de la puerta contra tormentas. Dele vuelta al inserto para instalación de las bisagras en el lado derecho. Su puerta contra tormentas con bisagra de LARSON está diseñada para la instalación de las bisagras tanto en el lado derecho como en el izquierdo, en la medida de lo posible que las puertas extragrandes no sean reversibles.

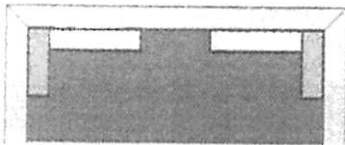
**1b**  
1-in wide x 1-in deep mounting surface is required. Hinge-side shimming may be required to fit existing opening. Use an appropriate shim thickness to reduce the opening to size noted. Shims are not included – household shim materials may include paint stir sticks or wooden yardsticks.



La superficie de montaje debe tener 1-in (2.5 cm) de ancho x 1-in (2.5 cm) de profundidad. Es posible que se deban colocar calzas para ajustar a la abertura existente. Los posibles materiales corrientes que pueden utilizarse como cuña son los palos para mezclar o metros de madera. Las calzas no se incluyen – los posibles materiales corrientes que pueden utilizarse como cuña son los palos para mezclar o metros de madera.

Nominal Door Sizes Tamaños estándar de puerta	Opening Width (no shim required) Ancho de la abertura (no las calzas se requiere)	Opening Width (shim required) Ancho de la abertura (las calzas se requieren)	Shim to this Opening Width Las calzas se añaden de la abertura	Min. - Max. Height Altura mínima - máxima
30-in x 81-in	29 7/8-in – 30-in	30 1/16-in – 30-3/8-in	29 7/8-in – 30-in	80-in to 87-in
32-in x 87-in	31 7/8-in – 32-in	32 1/16-in – 32-2/8-in	31 7/8-in – 32-in	
34-in x 81-in	33 7/8-in – 34-in	34 1/16-in – 34-3/8-in	33 7/8-in – 34-in	
36-in x 81-in	35 7/8-in – 36-in	36 1/16-in – 36-3/8-in	35 7/8-in – 36-in	

**1c**  
Verify house door trim is securely attached and square.



Compruebe que la moldura de la puerta de la casa se encuentre fijada de manera segura y a escuadra.

**1d**  
Check for existing door hardware interference.

*If storm door hardware interferes with your primary door hardware we recommend placing storm door hinge on opposite side.*

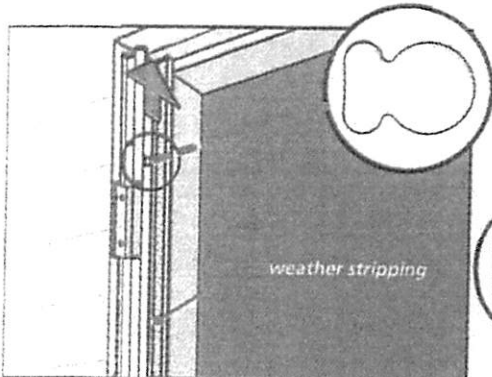
Revise si existe interferencia con los herrajes de la puerta.

*Si los herrajes de la puerta contra tormenta interfieren con los de su puerta primaria recomendamos colocar las bisagras de la puerta contra tormentas en el lado opuesto.*

# 2 Set Placeholder Screw For Hinge Rail

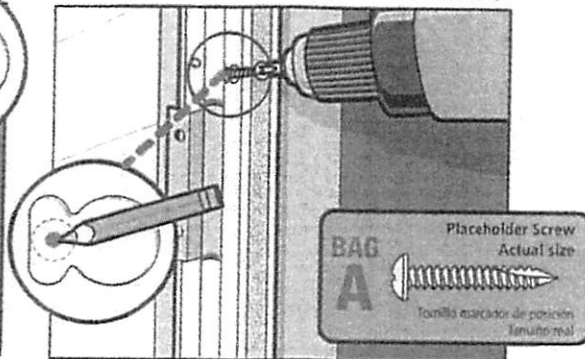
## Coloque el tornillo marcador de posición para el larguero de las bisagras

**2a**  
Place the hinge rail tight against the left side of door frame and slide to top.



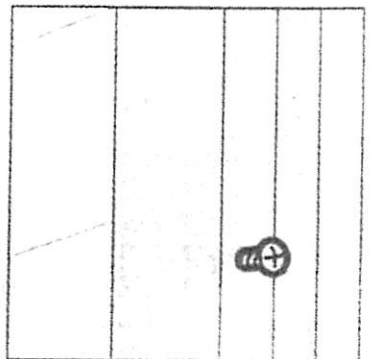
Coloque el larguero de las bisagras bien ajustado contra el lado izquierdo del marco de la puerta y deslícelo hacia la parte superior.

**2b**  
Use FIRST hole from top only. Mark hole with pencil, remove hinge rail, and attach placeholder screw from BAG A (Screw bags are located in closer kit). Do not tighten all of the way.



Utilice el PRIMER agujero de la parte superior únicamente. Marque el agujero con un lápiz, retire el larguero de las bisagras y fije un tornillo marcador de posición de la **Bolsa A**. (Las bolsas que contienen los tornillos están ubicadas en el kit del cerrador). *No apriete completamente.*

**2c**  
Leave 1/8-in of screw exposed.

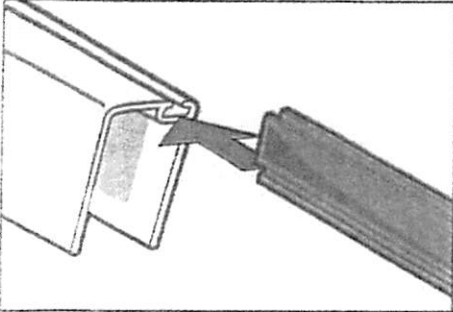


Deje 1/8-in (3 mm) de tornillo expuesto.

### 3 Storm Door Expander

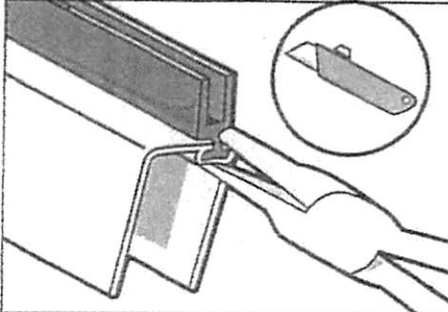
Expansor de la puerta contra tormentas

**3a**  
Install sweep. To aid in installation, soapy water or liquid soap can be applied into channel of expander.



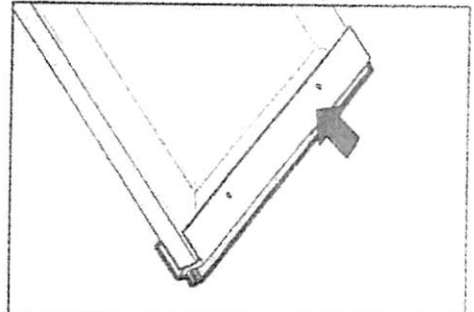
Instale el barrido. Para ayudar a la instalación puede aplicar agua jabonosa o jabón líquido en el canal del expansor.

**3b**  
Sweep may stretch during installation. Allow sweep to return to size before tightly crimping both ends and trimming.



El barrido puede estirarse durante la instalación. Permita que el barrido vuelva a su tamaño antes de pellizcar ambas puntas y cortar.

**3c**  
Slide expander onto the bottom of the door, with the holes facing the interior. Do not fasten yet.



Deslice el expansor en la parte inferior de la puerta con los agujeros orientados hacia el interior. No asegure todavía.

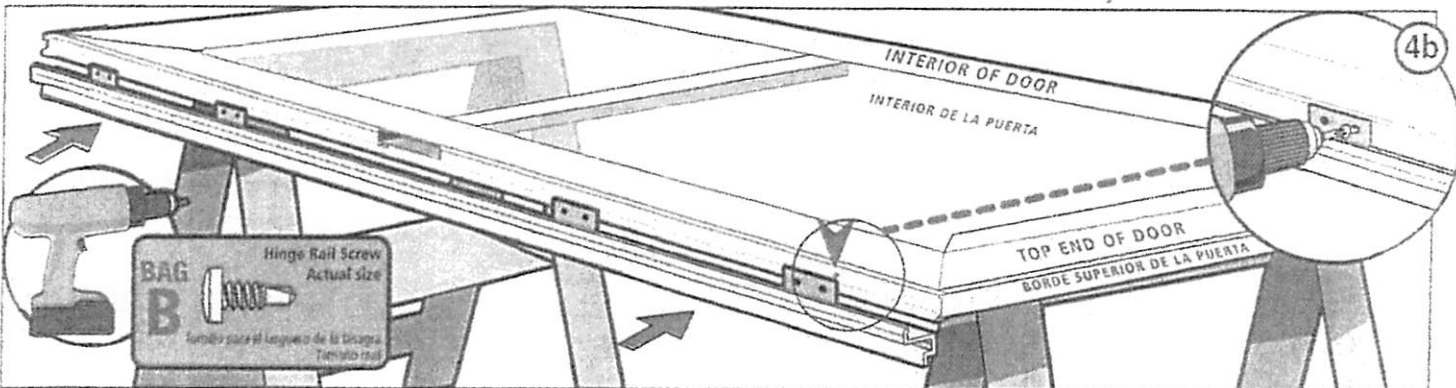
### 4 Attach Hinge Rail to Storm Door

Fije el larguero de las bisagras a la puerta contra tormentas

**4a**  
Place interior side face up.

**4b**  
Locate factory installed hinge locator hole near top end of door, and place hinge rail as shown. Attach hinge rail screw from BAG B into locator hole.

*Note: The hinge rail will overlap the top of the door by 3/16-in.*



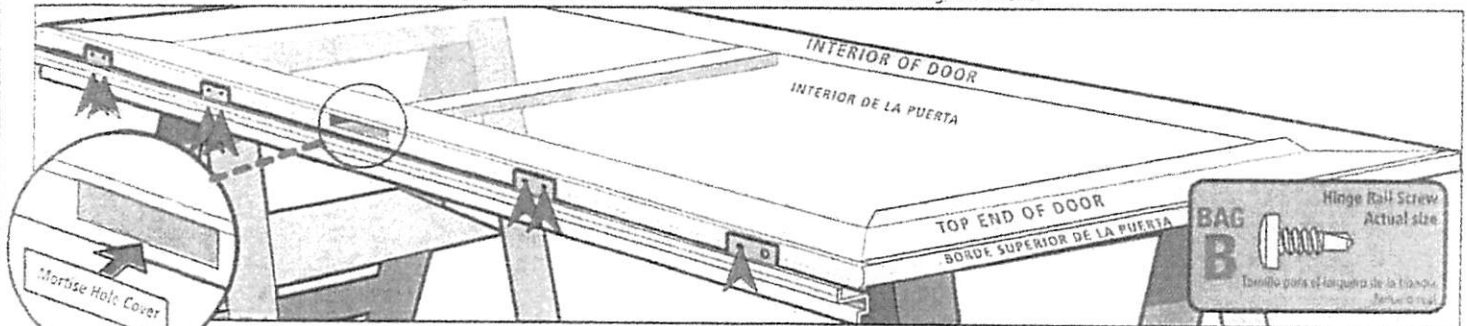
Coloque el lado interior orientado hacia arriba.

Ubique el agujero de ubicación de la bisagra que viene perforado de fábrica cerca del extremo superior de la puerta, y coloque el larguero de las bisagras como se ilustra. Fije el tornillo del larguero de la bisagra de la Bolsa B en el agujero de ubicación.

*Nota: El larguero de las bisagras se superpondrá a la parte superior de la puerta de 3/16-in (4,76 mm).*

**4c**  
Attach remaining hinge rail screws from BAG B starting from the bottom.

**4d**  
Install mortise hole cover and tighten screws.



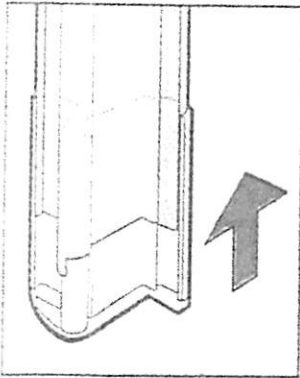
Fije los tornillos restantes del larguero de la bisagra de la BOLSA B comenzando desde la parte inferior.

instale la cubierta del agujero de la mortaja.

## 5 Attach Storm Door to Door Frame

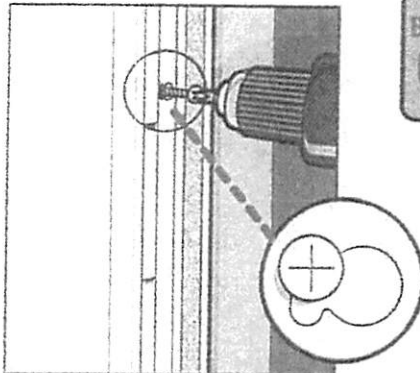
Fije la puerta contra tormentas al marco de la puerta

**5a**  
Slide rail extender (marked with "L") into the bottom of the hinge rail.



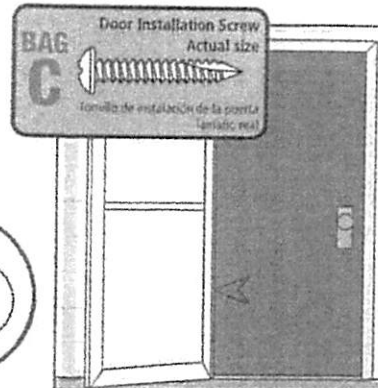
Deslice el extensor del larguero marcado con una "L" en la parte inferior del larguero de las bisagras.

**5b**  
Hang storm door onto door frame using the placeholder screw. The door will settle approx. 1/16-in down. Tighten screw while pushing top of hinge rail tight against the door frame.



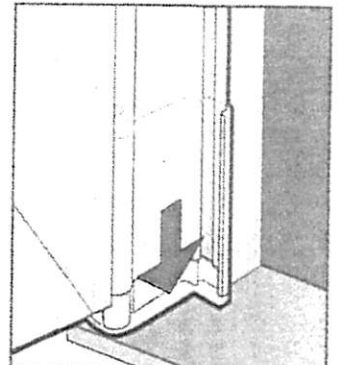
Coloque la puerta contra tormentas en el marco de la puerta utilizando el tornillo marcador de posición. La puerta se asentará aproximadamente 1/16-in (1.6 mm). Apriete el tornillo mientras empuja la parte superior del larguero de las bisagras ajustándolo contra el marco de la puerta.

**5c**  
At the second hinge from the bottom, install door installation screw from BAG C in one of the pre-punched holes. Do not over tighten screws.



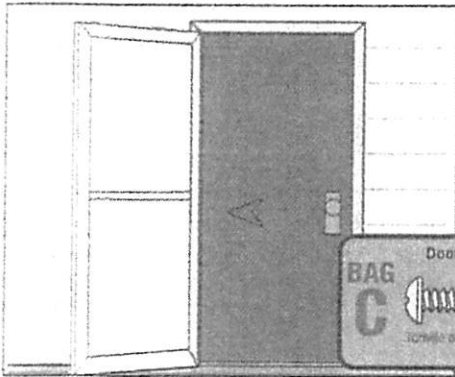
En la parte inferior del larguero de las bisagras, coloque el tornillo de instalación de la puerta que se encuentra en la BOLSA C para asegurar la abertura de la puerta. No apriete demasiado.

**5d**  
Slide rail extender to sill.



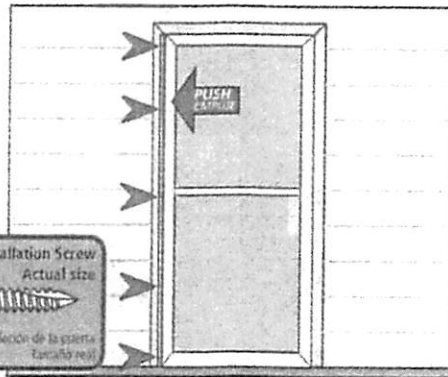
Deslice el extensor del larguero hasta la solera. Aloje el tornillo de instalación de la puerta según sea necesario.

**5e**  
Install door installation screws from BAG C on the inner side of hinge rail in remaining locations. Do not over tighten screws.



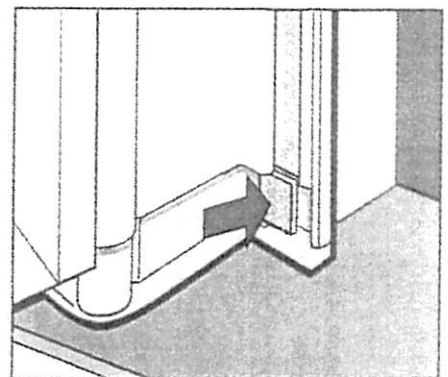
Instale todos los tornillos de instalación de la puerta que se encuentran en la BOLSA C en el larguero interior de las bisagras en las ubicaciones restantes. No apriete demasiado los tornillos.

**5f**  
Push door tight against door frame. Install door installation screws from BAG C on the outer side of hinge rail. Do not over tighten screws.



Empuje la puerta ajustándola contra el marco de la puerta. Coloque los tornillos de instalación de la puerta que se encuentran en la BOLSA C en el lado externo del larguero de las bisagras. No apriete demasiado los tornillos.

**5g**  
Cut extender weather stripping to length, peel adhesive backing and install.

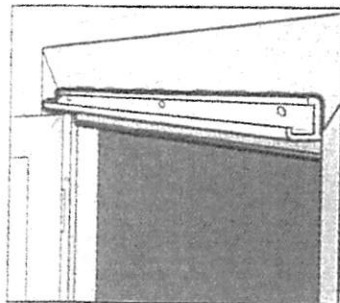


Corte el burlete del extensor al tamaño, despegue la película adhesiva e instale.

## 6 Install the Drip Cap

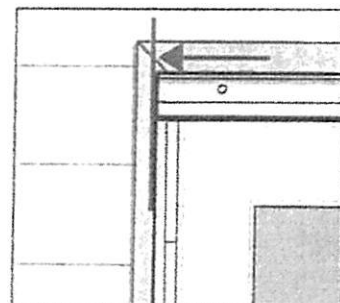
Instale el canal de goteo

**6a**  
Place the drip cap on the door frame above the storm door.



Coloque el canal de goteo en el marco de la puerta sobre la puerta contra tormentas.

**6b**  
Close door to verify consistent clearance. Align drip cap to end of hinge rail.



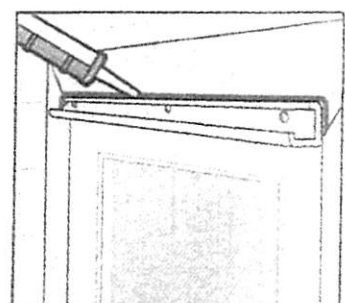
Cierre la puerta para verificar que exista suficiente espacio. Alinee el canal de goteo con el extremo del larguero de las bisagras.

**6c**  
Install door installation screws from BAG C, starting with the screw closest to the hinge rail. Do not over tighten screws.



Coloque los tornillos de instalación de la Bolsa C de la puerta, comenzando con el tornillo más cercano a la barra de articulación. No apriete demasiado los tornillos.

**6d**  
Caulk if desired.



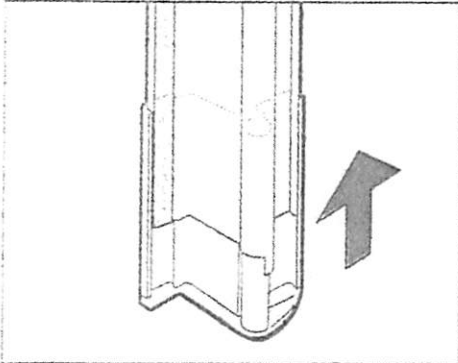
Calafatee si lo desea.



## 7 Install Latch Rail

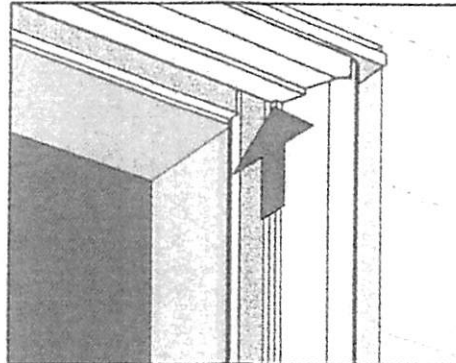
Instale el larguero del picaporte

7a  
Slide rail extender (marked with "R") into the bottom of latch rail.



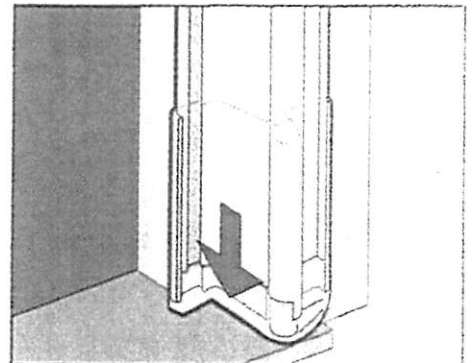
Deslice el extensor del larguero (marcado con una "R") en la parte inferior del larguero del picaporte.

7b  
Place latch rail tight against the drip cap.



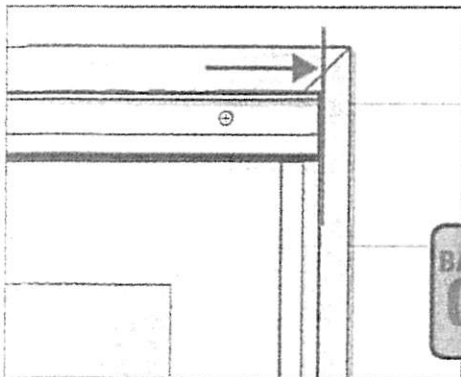
Coloque el larguero del picaporte ajustado contra el canal de goteo.

7c  
Slide rail extender to sill.



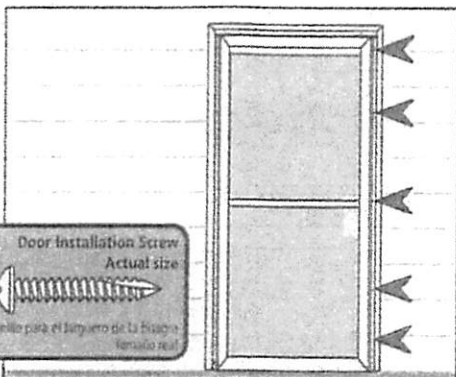
Deslice el extensor del larguero hasta la solera.

7d  
Align outside edge of latch rail with outside edge of drip cap. Verify that the door closes freely without hitting the latch rail.



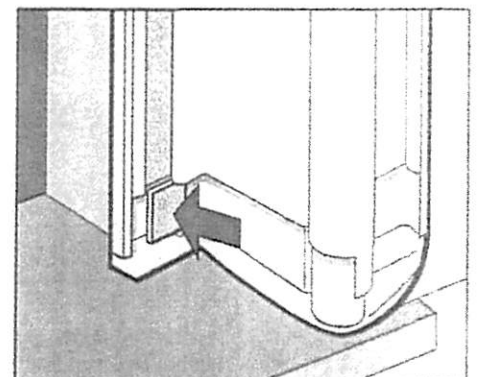
Alinee el borde externo del larguero del picaporte con el borde externo del canal de goteo. Verifique que la puerta cierre libremente sin golpear el larguero del picaporte.

7e  
Fasten the latch rail with door installation screws from BAG C. Do not over tighten screws.



Fije el larguero del picaporte con los tornillos de instalación de la puerta de la BOLSA C. No apriete demasiado los tornillos.

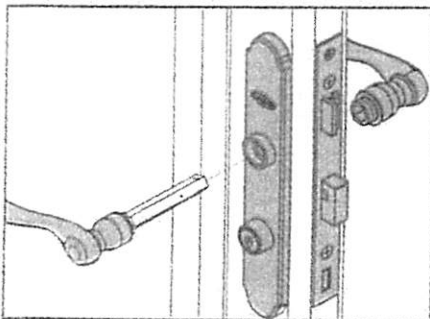
7f  
Cut extender weather stripping to length, peel adhesive backing and install.



Corte el burlete del extensor al tamaño, desprenda la película adhesiva e instale.

## 8 Install QuickFit™ Handle and Strike Plate

Instale la manija QuickFit™ y la placa receptora



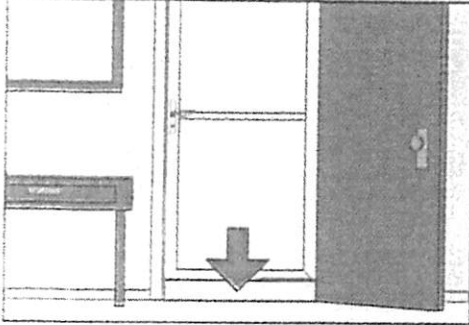
Follow the separate QuickFit™ instructions located in the handle kit (*SOLD SEPARATELY*).

Siga las instrucciones del QuickFit™ ubicadas en el kit de la manija (*VENDEN POR SEPARADO*).

## 9 Adjust Expander

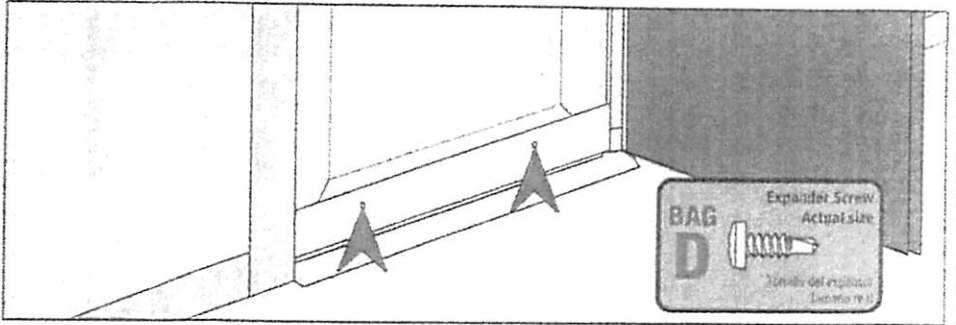
Ajuste el expansor

9a  
Adjust the expander until the sweep lightly touches threshold.



Ajuste el expansor hasta que el barrido toque ligeramente el umbral.

9b  
Secure expander with screws from BAG D.



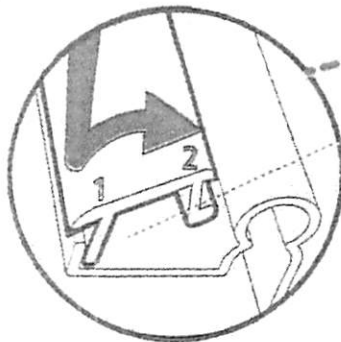
Asegure el expansor con los tornillos de la Bolsa D.

## 10 Finishing Touches

Torques de acabado

10a  
Install Rail Screw Covers

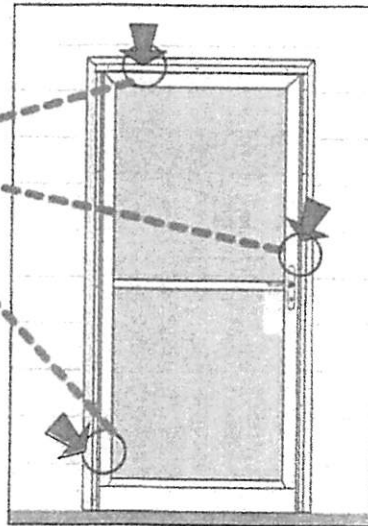
Snap strips into place by anchoring the outer side first. Start at the top ends and slide finger down strip while pressing. Trim to fit as needed.



**NOTE:**  
Straight leg towards outside of rail (marked with a line)

**NOTA:**  
Pata recta hacia el lado externo del larguero (marcado con una línea)

Coloque las cubiertas de los tornillos en la barra  
Coloque las bandas a presión en su lugar fijando el lado externo primero. Comience en los extremos superiores y deslice el dedo hacia abajo de la banda mientras presiona. Recorte para ajustar según sea necesario.

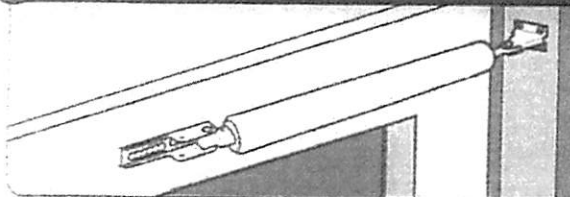


10b  
Remove black screen shipping clip from inside of door and discard.

Retire el sujetador de protección en color negro de envío desde la parte interior de la puerta y deséchelo.

## 11 Install Closer

Instale el brazo cerrador



Follow the instructions in the closer kit.  
Siga las instrucciones en el kit del brazo cerrador.



# Ultra Entry Door

## Installation Instructions



### Important

Read these instructions completely before you begin installation. Always think "Safety First". Use the proper tools and always wear safety glasses to protect your eyes.

### Required Tools

- |                   |                              |
|-------------------|------------------------------|
| Tape Measure      | Hammer                       |
| Framing Square    | Quality Exterior Grade Caulk |
| Level             | Wood Shims                   |
| Drill/Screwdriver | 8p Finish Nails              |
| 1/2" Drill Bit    | Installation Screw Pack      |

These instructions apply to the following Door Systems:



Single Doors



Single & Double Continuous Sidelite Units



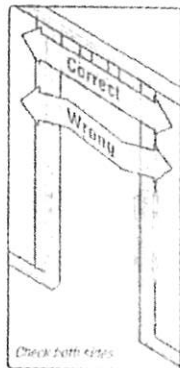
French & Patio Units

### Installation Checklist

- Clean, dry, level, and solid subfloor (1)
- Three beads of caulk under the Sill (2)
- Ensure consistent margins (5)
- Steel Door Adjustable Hinge (8)
- Adjust Sill, Check Corner Pads (9)
- Caulk corner of Sill and Jamb (10)
- Position & Install Astragal (French) (11)
- Caulk around door unit and use Hashing (11)

## 1 Preparing the Rough Opening

- ⑦ Are the walls straight?
- ⑦ Are the studs plumb and level?
- ⑦ Is the subfloor clean, dry, level and solid?



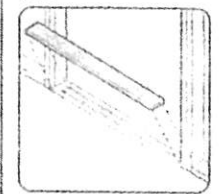
Check both sides

If you are using a height plate to bring the sill up to the level of the finished floor covering:

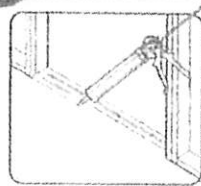
- Be sure that it is at least as wide as the sill and as long as the rough opening.



- Be sure to caulk thoroughly under and around the height plate.



## 2 Pre-Caulking Subfloor for Sill



Put three heavy beads (1/2" wide) of silicone caulk on the subfloor or height plate as shown. Put enough caulk at the sides to completely cover the bottom of the side jamb. Pivot door unit directly into position.



Caulk

### SAFETY

- Do not work alone. Two or more people may be required.
- Use safety lifting techniques.
- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Use proper protective gear (gloves, safety glasses, ear protection, etc.)
- Use power tools safely following manufacturer operating instructions.
- Use caution when working on ladders or at elevated heights.
- Take proper precaution if lead paint is suspected (commonly used prior to 1979). Information regarding regulations and lead protection can be found at [www.epa.gov/lead](http://www.epa.gov/lead)

### MATERIAL & HANDLING

- Handle in a vertical position. Do not carry flat or drag on the floor.
- Do not put stress on joints, corners, or frames.
- Store door in dry, well-ventilated area in vertical, leaning position. Do not stack horizontally.

### DISPOSAL & RECYCLING

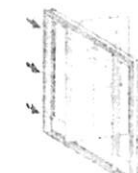
Most Construction & Demolition (C&D) debris is non-hazardous and is not regulated by EPA. Many states have specific definitions of C&D debris that effectively determine what materials are allowed to be disposed of in non-hazardous waste landfills and C&D landfills. Even if federal or state regulations do not apply to your business, you should make efforts to keep the hazardous components of the wastes you generate out of landfills to conserve natural resources and protect human health and the environment. Suggestions outlines at the following link: [www.epa.gov/osw/inforosources/pubs/infocus/ri-cd.pdf](http://www.epa.gov/osw/inforosources/pubs/infocus/ri-cd.pdf) identify steps you can take to reduce, reuse, and recycle your waste.

## 3 Positioning the Door Unit

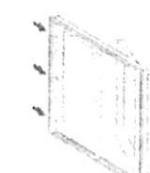
Temporarily tack the door in place with the finish nails provided. DO NOT FULLY SEAT.



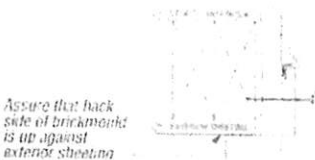
Single Units: Fasten Hinge Jamb



Sidelite Units: Fasten Sidelite Jamb to Hinge Jamb



French & Patio Units: Fasten Jamb on fixed or passive side of door



Assure that back side of bricemarks is up against exterior sheathing

Do not fully seat. Leave the nail sticking out a little for final adjustment

## 4 Shim to Ensure Consistent Margins

- Check hinge jamb for plumb and true with a 6-foot level.
- Wedge shims on the bottom at each corner to center and stabilize the unit. Continue placing shims up each side of the unit as shown. Make sure the jambs remain square and vertical as you go.
- Adjust the frame so it is flush with the face of the door.
- Margins between door and frame should be 1/8" on top and strike side.



**IMPORTANT:** Shims must be placed behind the jamb at each hinge, latch and deadbolt location. Use the 3" open hole in each hinge. If a dead bolt is being installed, use two 3" screws through the dead bolt strike plate, or through the jamb next to the strike plate. All screws must pass through the jamb and shims, and into the stud.

Made in the USA

Manufactured by:  
Polaris Window and Door  
500 Victoria Rd. • Austintown, Ohio 44515  
[www.polariswindows.com](http://www.polariswindows.com)

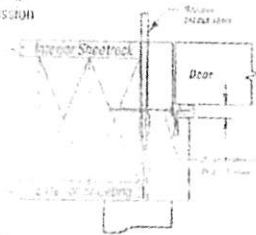
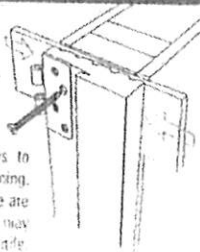
Simple Solution is a registered trademark of Endura Products, Inc.

## 5 Secure with Fasteners

Pre-drill 1/8" pilot holes at each shim location. The screws that don't go through a hinge or strike plate can be hidden behind the weather-stripping.

Use the 2 5" installation screws to fasten the door frame to the opening. Min. four (4) screws for each side are recommended. The excess shim may be cut away with a saw or utility knife.

Check the weatherstripping contact for even compression all around the door.



## 6 Lockset Hardware

Install lockset hardware.

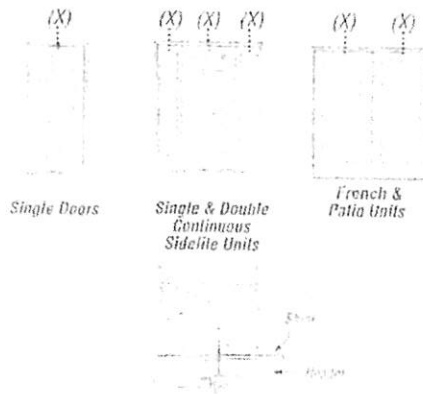
With door closed, shim behind latch area to maintain proper margins.

Attach the strike plate with the screws provided for both the strike and the dead stud. Remove excess shim.



## 7 Fastening Header

Fasten through thick part of header. Use shim at each location indicated (X) to maintain proper margin.

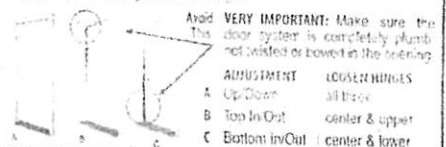
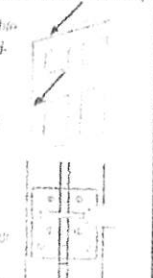


## 8 Steel Door Adjustable Hinge

Steel doors come with a patented adjustable hinge plate system. This is for fine tune adjustment of the slab within the frame.

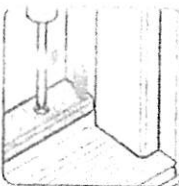
Close the door and check to see that the bottom weather-strip makes an airtight seal along the entire length of the threshold. If the door needs adjustment, loosen the screws on the top hinge plate and use the large leaf. With the adjustable hinges, you may move the door out or in 1/8" and up or down 3/16". Adjust the door to level. Then re-tighten the hinge screws and re-check the door for a good airtight seal. Check the bottom seal by closing the door and looking to see if any daylight appears along the bottom edge.

Check fit of weather strip

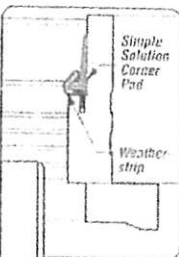


ADJUSTMENT	LOOSEN NUTS
A Up/Down	all three
B Top In/Out	center & upper center & lower
C Bottom In/Out	center & lower

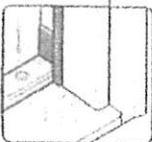
If necessary, adjust the sill cap to ensure consistent spacing between panel and cap.



Verify proper installation of Simple Solution® Corner Pads. The raised fin of the corner pad needs to be tucked behind the weatherstrip as shown. (Both strike and hinge sides.)



The Simple Solution Corner Pad must also contact the top surface of the sill cap.

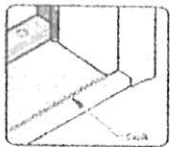
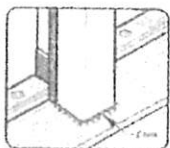
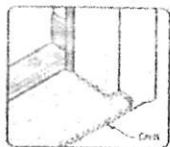


Caulk must be applied to the intersection of the aluminum sill extension and the jamb.

Seal front bottom edge of sill.

Caulk around the intersection of the mull and the door sill.

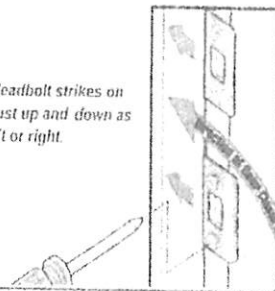
If a sill extender is installed, apply a bead of caulk where the extender meets the sill.



The strikes should be adjusted as far in the direction of door closure as possible to assure that the strikes pull the door up to the weatherstrip tightly.



Doorknob and deadbolt strikes on the astragal adjust up and down as well as to the left or right.



## Finishing Instructions

If you did not order your door with a factory applied finish, the door should be finished immediately after installation.

Please refer to the finishing instructions for printing and staining included separately.

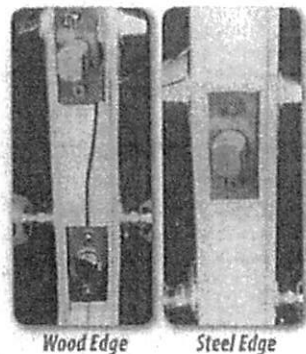
Doors not finished within 30 days from installation will void all warranties.



## STRENGTH & SECURITY

All steel-edge perimeter - more stable and stronger than wood edge doors.

Galvanized inner and outer steel sheets offer strength and durability. There is no wood to rot, warp, split or bow. It is difficult to even dent our doors. No rotting, splitting or insect infestation like wood edge doors.



Polaris Ultra Entry Steel Doors do not force open after 7 hits of a 100 lb. test weight for a Grade 40 Security Rating.

The force of one hit from a 100 lb. test weight cracks a wood edge steel door.

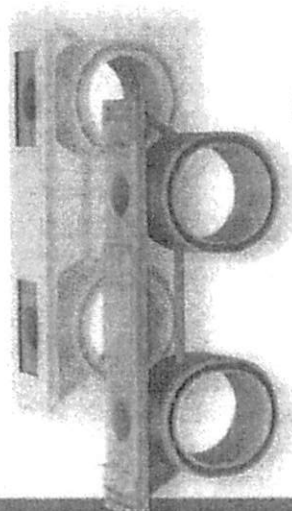
Your family is secure behind the best safety rating in the industry.

## COMPOSITE LOCK BLOCK

4" x 10" composite lock block has more screw-holding power than wood. It is injection-molded for uniform size. The door remains flat and strong beneath hardware.

Elongated lock block holes accommodate 2-3/8" or 2-3/4" hardware back set.

Foam fill within door slab insulates completely around hardware area with composite lock block. There is no cold spot where you grasp door most.



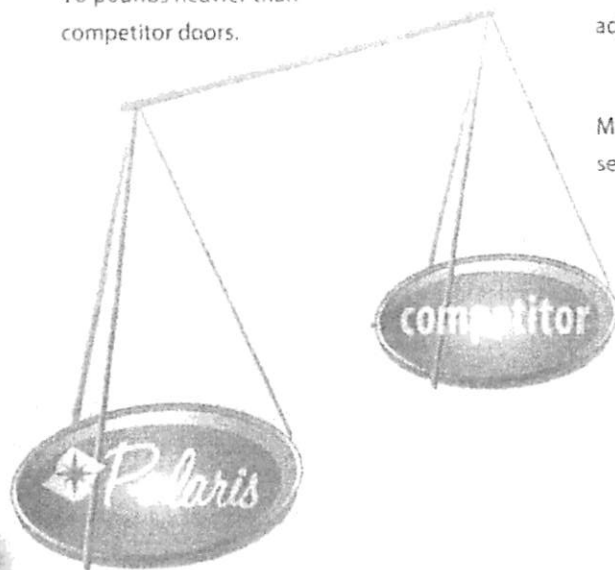
## 22 GAUGE SKIN

Heavy duty steel reduces denting and waves in the steel skin.

Sheet metal gauge ranges from 30 to 8. Lower gauge = Thicker metal.

Our 22 gauge doors have 48% more steel competitors' 25 gauge.

Our doors are approximately 10 pounds heavier than competitor doors.



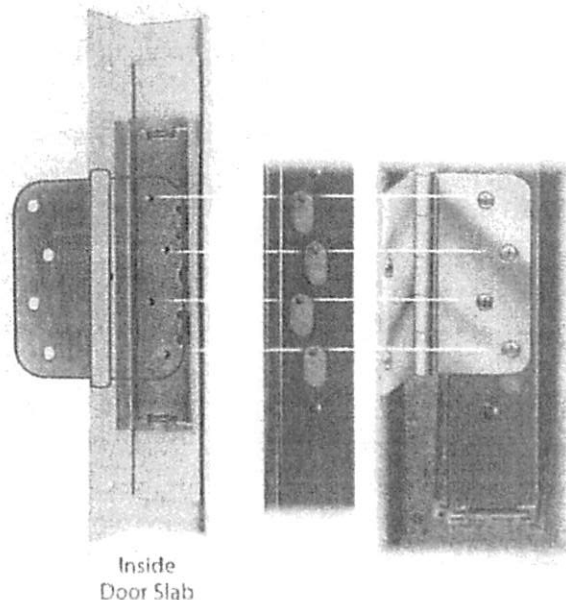
## ADJUSTABLE HINGE

## SYSTEM

Our hinge system ensures proper alignment and weather-tight seal. Normal settling or climate change can effect the door opening. Use a screw driver to make the necessary adjustments. Move the door up or down, in or out without removing the door.

Hinge plates are secured to a 12 gauge metal reinforced adjustable hinge block within the steel door slab.

Machine screws attach the hinges to the block. Door always resets securely, regardless of how many times screws are readjusted.



## ULTRA PERFORMANCE FRAME

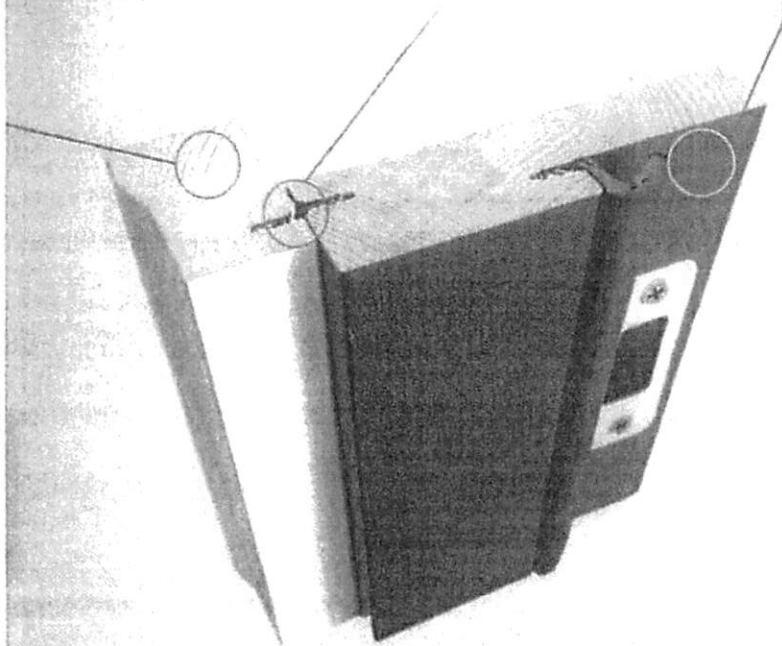
12 mil rigid PVC film bonded with permanent waterproof exterior polyurethane glue to our rot resistant frame system.

Alaskan Yellow Cypress, one of the planet's most durable, rot-resistant woods is finger jointed to the bottom of a premium pine frame component.

The Ultra Door frame offers the strength and rigidity of wood with low maintenance attributes of PVC components.

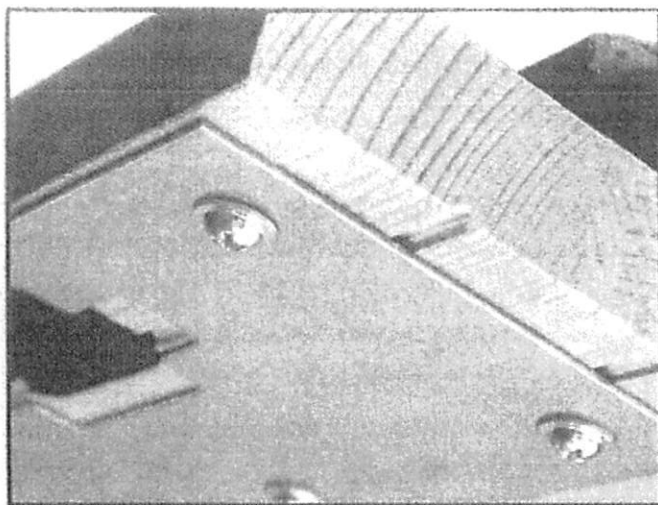
This system offers versatility in your finishing options. This Ultra Door Frame can be painted or stained, this also includes the jamb being stained.

No nail holes in the brick mould. This design has a route in the brick mould and jamb that connect with an accessory.



## SEALING WITH WEATHER-STRIP PLATE

Weather-strip plate provides an airtight seal.



## ENERGY EFFICIENCY

### CORE

Polyurethane foam core meets environmental guidelines and offers maximum thermal protection.

### LOW-E GLASS

Low-E thermally efficient glass upgrade is offered through the City Lites Collection and in Garden Patio Doors. Invisible metallic coating blocks heat flow and shields against damaging ultra violet rays.

### WEATHER-STRIP

Our compression weather-strip forms a weather-tight seal. The resilient foam is impervious to moisture and maintains its shape. We offer high-performance weather-strip and bottom sweep upgrades to further strengthen the weather barrier of your entry.

### THRESHOLD

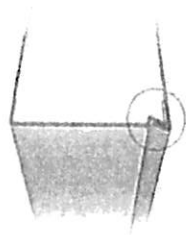
Another weather-tight feature is the adjustable threshold. A few turns with a screw driver achieves a proper seal at the bottom of the door.

Refer to page two for ENERGY STAR® qualifying door styles.

THERMAL BREAK  
TWO-PIECE  
CONSTRUCTION

Thermal break with sheet interlock & glue bond.

Seal of hot melt glue applied to length of lock and hinge side of sheets.



STEEL FIBERGLASS

COMPOSITE  
TOP & STILE  
RAILS & STYLES

Insulate and provide waterproofing on all sides. Your door will never rot, rust or warp. Screw-holding power is 2 times better than wood.

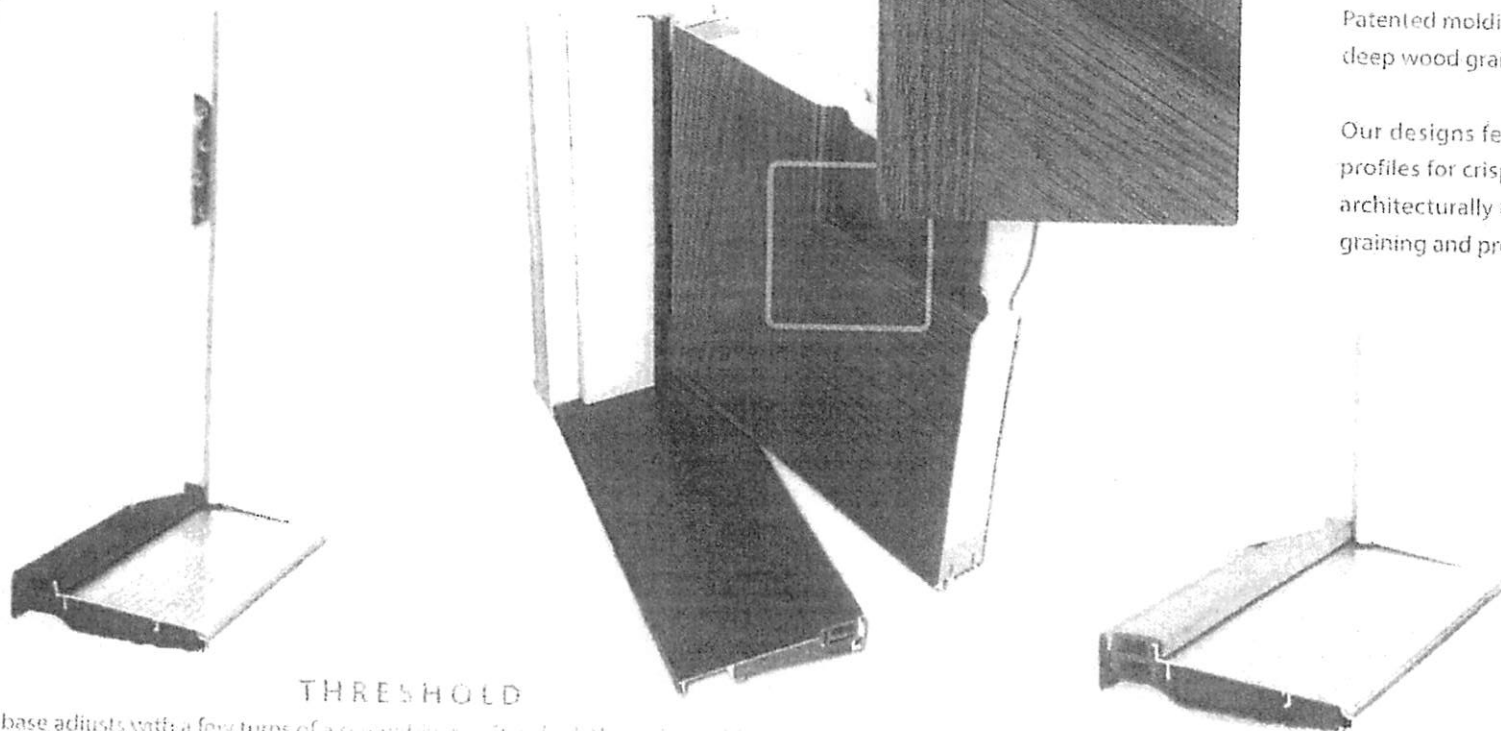
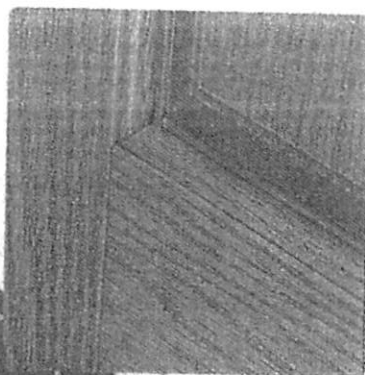
FIBERGLASS  
REINFORCED STILES  
Resistant to dents, dings, stains & age.  
Unaffected by moisture or humidity.  
Won't rust or warp.

FIBERGLASS  
TEXTURE

Rich look, feel and texture of real wood without the drawbacks.

Patented molding process imparts deep wood grain detail.

Our designs feature deep panel profiles for crisp shadow lines and architecturally correct stile & rail graining and proportions.



THRESHOLD

Composite base adjusts with a few turns of a screwdriver. Standard Aluminum with Brown over (right).  
Satin Nickel / Black option above. Bronze / Black option above.

 **Polaris** ULTRA ENTRY DOOR  
THERMAL STEEL + FIBERGLASS

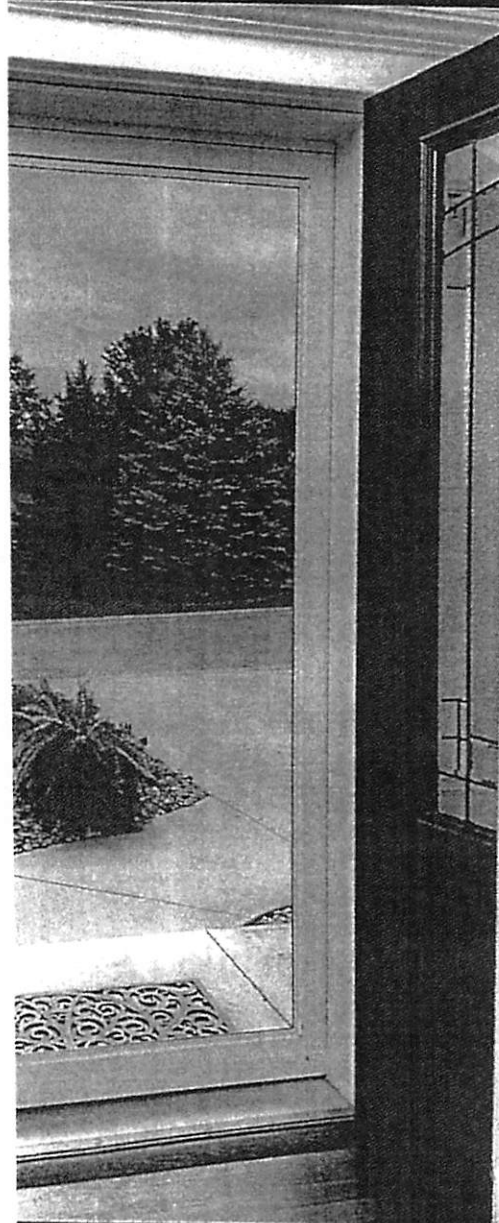
# Energy Star Qualification Chart

Patio Door		Supreme <sup>2</sup>					XL <sup>2</sup>					Triple Pane																	
		7138/C-AR					6227/C-AR					7138/C/C-AR					7138/7138/C-AR					7138/7138/C-KR							
		U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC
UltraWeld	No Grid	0.31	0.31					0.31	0.21					0.27	0.29						0.23	0.25					0.19	0.25	
	Grid	0.31	0.28					0.31	0.19					0.28	0.26						0.24	0.22					0.19	0.22	
ThermalWeld • ValuSmart	No Grid	0.30	0.31					0.30	0.21																				
	Grid	0.30	0.28					0.30	0.19																				

Steel Entry Door	No Lite						1/4 Lite					1/2 Lite					3/4 Lite					Full Lite								
	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S
Flush / Embossed Panel	0.18	0.01																												
Decorative Glass - All Styles							0.20	0.05					0.27	0.16					0.31	0.24					0.33	0.29				
1/2" Clear Glass - Exterior Grids							0.21	0.03					0.32	0.17					0.39	0.26					0.43	0.31				
1/2" Glass - Exterior Grids - Low e / Argon							0.20	0.02					0.27	0.11					0.32	0.16					0.34	0.19				
1" Clear Glass - Internal Grids							0.20	0.03					0.30	0.18					0.36	0.26					0.39	0.31				
1" Clear Glass without Grids							0.20	0.03					0.30	0.20					0.36	0.29					0.39	0.37				
1" Glass - Internal Grids - Low e / Argon							0.20	0.02					0.25	0.11					0.28	0.16					0.30	0.19				
1" Glass without Grids - Low e / Argon							0.20	0.02					0.25	0.12					0.28	0.18					0.30	0.22				

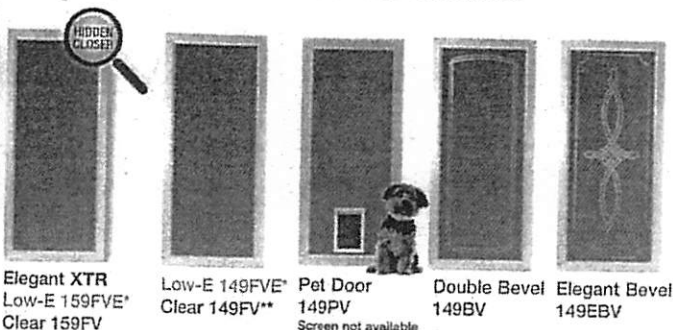
Fiberglass Entry Door	No Lite						1/4 Lite					1/2 Lite					3/4 Lite					Full Lite								
	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S	U	SHG	N	NC	SC	S
Flush / Embossed Panel	0.16/ 0.17	0.01																												
Decorative Glass - All Styles							0.20	0.04					0.26	0.16					0.28	0.22					0.31	0.28				
1/2" Clear Glass - Exterior Grids							0.21	0.04					0.30	0.15					0.35	0.20					0.39	0.26				
1/2" Glass - Exterior Grids - Low e / Argon							0.20	0.02					0.25	0.08					0.28	0.11					0.30	0.14				
1" Clear Glass - Internal Grids							0.21	0.04					0.29	0.17					0.35	0.23					0.37	0.30				
1" Clear Glass without Grids							0.21	0.04					0.29	0.19					0.33	0.26					0.37	0.33				
1" Glass - Internal Grids - Low e / Argon							0.20	0.03					0.24	0.09					0.26	0.12					0.28	0.15				
1" Glass without Grids - Low e / Argon							0.20	0.03					0.24	0.10					0.26	0.14					0.28	0.17				





## Seasonal Venting

Our beautiful fullview storm doors include an interchangeable screen for seasonal ventilation.



Elegant XTR  
Low-E 159FVE\*  
Clear 159FV

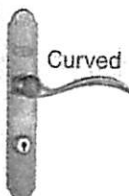
Low-E 149FVE\*  
Clear 149FV\*\*

Pet Door  
149PV

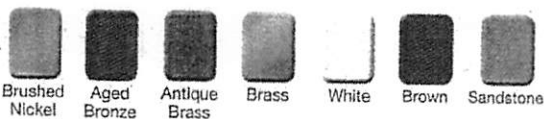
Screen not available

Double Bevel  
149BV

Elegant Bevel  
149EBV



Curved



QuickFit™  
HANDLE SET



Straight



Choose Your Handle  
Matching handles inside  
and out with built-in  
deadbolt. Designed for  
doors with LARSON®  
QuickFit locksets.

Elegant Selection	MODEL	STANDARD SIZE	CUSTOM
159 Series with Hidden Closer	159FVE Low-E*	32" x 81"	✓
	159FV Clear	36" x 81"	✓
149 Series with 2-closer system	149FVE Low-E*	32" x 81"	✓
	149FV Clear**		✓
	149PV Pet Door	36" x 81"	
	149BV Double Bevel		
	149EBV Elegant Bevel		

\* 159FVE, 149FVE feature Low-E glass for improved insulation and less fading.  
\*\* 149FV also available in 30" & 34" widths, white only.

### STANDARD FEATURES



**BetterVue™**  
screen with  
up to 20%  
improved  
clarity, light,  
and increased  
airflow



**Ventilation**  
Window and  
screen  
interchange  
for seasonal  
venting



**Durability**  
Premium  
frame  
construction  
with 1 5/8"  
thick aluminum



**Protection**  
Overlapping  
frame and  
two closers  
provide a  
tight seal



**Convenience**  
Hold-open closer  
keeps the door  
open with a  
touch of a button  
149 models



**Finish**  
Installation  
screw covers  
conceal  
exterior screws



*Handwritten signature: Joshua Casanova*

**Manufacturing  
ACKNOWLEDGEMENT**

Customer Quote Summary

**BILL TO:**

LANSING BLDG PRODUCTS/DANBURY CT  
PO BOX 6649

**SHIP TO:**

LANSING BLDG PRODUCTS/DANBURY CT  
47 47 Old Ridgebury Road



Phone: 804-266-8893

Fax: 8042616743

DANBURY

CT 06810-0000

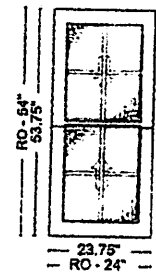
Phone: 203-312-1221

Fax:

QUOTE NBR	CUST NBR	CUSTOMER TO	DATE CREATED	DATE ORDERED	ORDER TYPE
4999107	1141341		3/4/2021	Quote Not Ordered	Charge
ORDERED BY	STATUS	SHIP VIA	DELIVERY AREA		
Steve	None	Unknown Ship Via	Unknown Area		
CLERK	JOB NAME	COUPON			
jc - Joshua Casanova	NORTH COUNTRY				

LINE #	DESCRIPTION	QTY	UNIT PRICE	EXTENDED
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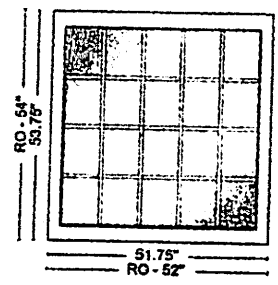
10000-1 Majesty DH , Unit Size 23.75 x 53.75, RO 24 x 54, EXTENDED 2  
 LEADTIME  
 Unit 1: U-Factor = 0.27, SHGC = 0.26, VT = 0.45, HII-M-26-00616-00002, Size Options = Custom Size, Transactional Order Type = Charge Order , Replacement  
 Frame Width (Inches) = 23.75, Frame Height (Inches) = 53.75  
 Double Glazed, Double Low-E RS, Argon Filled  
 Prefinished Pine, Base Color = White, Jamb Liner Color = White, Prefinished Color = White  
 Single , White, Routed  
 Full Screen, Full Screen Mullion, Fiberglass Mesh, Screen Shipping Separate  
 Contour In-Glass, Colonial, A-White, 2W2H  
 Overall Frame Width (Inches) = 23.75, Overall Frame Height (Inches) = 53.75, Overall Rough Opening Width (Inches) = 24, Overall Rough Opening Height (Inches) = 54  
 Clear Opening Width = 19.875, Clear Opening Height = 20.625, Clear Opening Square Footage = 2.85  
 E.Star Zone:North=Yes, E.Star Zone:North-Central=Yes



Room Location: None Assigned

LINE #	DESCRIPTION	QTY	UNIT PRICE	EXTENDED
--------	-------------	-----	------------	----------

11000-1 Majesty DH PW , Unit Size 51.75 x 53.75, RO 52 x 54, EXTENDED 1  
 LEADTIME  
 Unit 1: U-Factor = 0.26, SHGC = 0.26, VT = 0.47, HII-M-29-01156-00002, Transactional Order Type = Charge Order , Replacement  
 Frame Width (Inches) = 51.75, Frame Height (Inches) = 53.75  
 Double Glazed, Double Low-E RS, Argon Filled, DSB  
 Prefinished Pine, Base Color = White, Prefinished Color = White  
 Contour In-Glass, Colonial, A-White, 5W4H  
 Overall Frame Width (Inches) = 51.75, Overall Frame Height (Inches) = 53.75, Overall Rough Opening Width (Inches) = 52, Overall Rough Opening Height (Inches) = 54  
 E.Star Zone:North=Yes, E.Star Zone:North-Central=Yes



Room Location: None Assigned



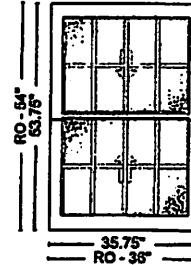
Scan with Smartphone to access installation instructions in HBP's Document Center

QUOTE NBR	CUST NBR	CUSTOMER PO	DATE CREATED	DATE ORDERED	ORDER TYPE
4999107	1141341		3/4/2021	Quote Not Ordered	Charge
ORDERED BY	STATUS	SHIP VIA	DELIVERY AREA		
Steve	None	Unknown Ship Via	Unknown Area		
CLERK	JOB NAME	COUPON			
jc	-Joshua Casanova	NORTH COUNTRY			

LINE #	DESCRIPTION	QTY	UNIT PRICE	EXTENDED
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12000-1 Majesty DH , Unit Size 35.75 x 53.75, RO 36 x 54, EXTENDED 8  
LEADTIME

Unit 1: U-Factor = 0.27, SHGC = 0.26, VT = 0.45, HII-M-26-00616-00002, Size Options = Custom Size, Transactional Order Type = Charge Order , Replacement  
Frame Width (Inches) = 35.75, Frame Height (Inches) = 53.75  
Double Glazed, Double Low-E RS, Argon Filled  
Prefinished Pine, Base Color = White, Jamb Liner Color = White, Prefinished Color = White  
Single , White, Routed  
Full Screen, Full Screen Mullion, Fiberglass Mesh, Screen Shipping Separate  
Contour In-Glass, Colonial, A-White, 4W2H  
Overall Frame Width (Inches) = 35.75, Overall Frame Height (Inches) = 53.75, Overall Rough Opening Width (Inches) = 36, Overall Rough Opening Height (Inches) = 54  
Clear Opening Width = 31.875, Clear Opening Height = 20.625, Clear Opening Square Footage = 4.57  
E.Star Zone:North=Yes, E.Star Zone:North-Central=Yes



Room Location: None Assigned

**\*\*Note: Delivery charges may apply and are not included on this quote.**

This quotation is based on our interpretation of the information provided. All quantities, sizes, extensions, grand totals, and specifications should be verified by the contractor prior to his/her bidding or ordering of materials. The manufacturer is responsible only for the items as quoted above. Any changes or addendums will be subject to a requote. We propose to supply the materials as described above, subject to terms and conditions. The prices are guaranteed for 30 days from the date of quotation unless otherwise noted. Delivery charges may apply and are not reflected on this quote. We appreciate the opportunity to quote this job.

SUBTOTAL	\$6,825.00
LABOR	\$0.00
TAX	\$0.00
ORDER TOTAL	\$6,825.00

CUSTOMER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



Scan with Smartphone to access installation instructions in HBP's Document Center

# GENERAL NOTES

## GENERAL:

- All work performed shall comply with all requirements of the New York state building and energy code.
- Contractor to verify all dimensions and conditions prior to starting construction. Any discrepancies shall be reported to the architect.
- It shall be understood that the scope of these drawings include only basic structural and architectural information and that no further liability will be assumed beyond the contents of these signed and sealed documents.
- For design purposes, load values for these plans were taken from Table R401.1 under "sand silty sand, clayey sand, silty gravel, and clayey gravel" having a minimum load bearing pressure of 2,000 PSF. Site with soil values appearing less than 2,000 lbs shall be tested to locate virgin soil with approved bearing value prior to footing installation.
- Garage slabs are to be 3,500 lbs as per table R402.2 The architect shall be notified of these findings for redesign of footings, foundation and slab where applicable.
- All concrete work shall be transit mixed concrete developing a strength of 3,000 PSI at 28 days.
- All lumber shall be sound dry material. All lumber shall be construction grade Douglas fir or K.D. Spruce with the following min. stress: Fb= 1,500 PSI, and E= 1,750,000.
- All electrical work shall conform to the requirements of the NECA and the local utility company.
- All plumbing work shall conform to all state and local codes.
- All heating work shall conform to all state and local codes.
- The contractor shall be responsible to notify the architect and the owner in case of any discrepancies between removal noted on the drawings. And that which would be required for completion of the project or that might jeopardize the structural integrity of the building. All structure shall be carefully supported throughout the removal of any bearing walls, so that the building experiences no loss of integrity.
- Headers over all doors, windows, and other openings under 6'-0" shall be (2) 2x10 (unless otherwise noted). Header openings 6' to 8' shall receive (3) 2x10 or (2) 2x12 headers in exterior walls, unless otherwise noted.
- Provide double floor joist below parallel partitions.
- Install CO2 detectors as required by code.

## SMOKE DETECTORS:

Provide smoke detectors (hard wired) in all bedrooms, hall areas (near bedrooms), attic, and basement. Installation to meet all codes. Provide carbon monoxide detectors in location as required by code.

## BUILDING THERMAL ENVELOPE REQUIREMENTS:

The building thermal envelope shall be sealed to limit infiltration. Refer to section N102.1 of the "NEW YORK STATE RESIDENTIAL CODE", regarding areas requiring caulking, weatherstripping, & other suitable air barrier materials.

## VAPOR RETARDERS:

"NEW YORK STATE RESIDENTIAL CODE" N102.5 Class 1 (Rockland County NY - Zone 5)  
Provide Sheet polyethylene, non-perforated aluminum foil on basement / garage stud walls.

## STAIR NOTES:

TYPICAL EXTERIOR STAIR / HANDRAIL REQUIREMENTS (MEET NEW YORK STATE CODE REQUIREMENTS)

- Max Riser height 8-1/4 inches.
- Minimum tread depth 9 inches. Minimum nosing 3/4 inch.
- Handrails 36" AFF. (above finished floor).
- Spindle spacing to be 4" O.C. (on center).

## DEMOLITION NOTES:

1. The contractor shall be responsible to notify the architect and the owner in case of any discrepancies between removal noted on the drawings. And that which would be req'd for completion of the project or that might jeopardize the structural integrity of the bldg. All structure shall be carefully supported throughout the removal of any bearing walls, so that the building experiences no loss of integrity.

2. The contractor/ owner to provide hvac and electrical design and drawings. Architect scope is for basic architectural drawings only.

N102.4 - ZONE 5 (ROCKLAND COUNTY, NY) - N102.5 - addressed in energy calculations (rescheck)

N102.5.3 - All minimum clear air spaces and vented openings for vented cladding shall comply.

N102.3 - All Systems shall comply with this section.

M102.3 - All mechanical information shall be provided by the mechanical contractor.

## NEW YORK STATE ENERGY EFFICIENCY RELATED REQUIREMENTS FOR DETACHED ONE AND TWO FAMILY DWELLINGS

THIS RESIDENCE AND OR ADDITION WAS DESIGNED TO COMPLY WITH THE LATEST ENERGY CONSERVATION CODE 2015 WITH 2017 ENERGY CODE SUPPLEMENTS

## TABLE N102.1 CLIMATE ZONE 5

LOCATION	PERFORMANCE REQUIRED	PERFORMANCE PROVIDED
CEILING	R-49	NOT APPLICABLE
WALL	R-21	NOT APPLICABLE
FLOOR	R-30	NOT APPLICABLE
GLAZING	U-35	U-35
BASEMENT WALL	R-15	NOT APPLICABLE
SLAB EDGE (ON GRADE)	R-10	NOT APPLICABLE
CRAWL SPACE	R-15	NOT APPLICABLE

## TABLE R 302.1(1)

ground snow load 30 lbs/ sq. ft.	wind design		special wind region effects	wind-borne debris zone straps as per drawing	seismic design category	subject to damage from weathering severe		frost line depth to heavy	ice barrier underlayment required	ice shield underlayment	flood hazards	air freezing index 1000	mean annual temp. 49°
	speed (mph) 10 to 120 mph	topographic effects				weathering moderate	weathering severe						

## BUILDING CODE:

Current 2015 International Residential Code and 2015 International Building Code of New York State

with 2017 uniform construction code supplements New York State

Current 2015 Energy Conservation Code of New York State with 2017 energy code supplements

## STRUCTURAL DESIGN LOADING:

Drawings are designed to comply per these requirements.

## TABLE R301.5

Attic: 20 lbs/sf LL + 10 lbs/sf DL = 30 PSF.  
Exterior Balconies: 60 lbs/sf LL + 10 lbs/sf DL = 70 PSF.  
Fire Escapes: 40 lbs/sf LL + 10 lbs/sf DL = 50 PSF.

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JUL 17 2018

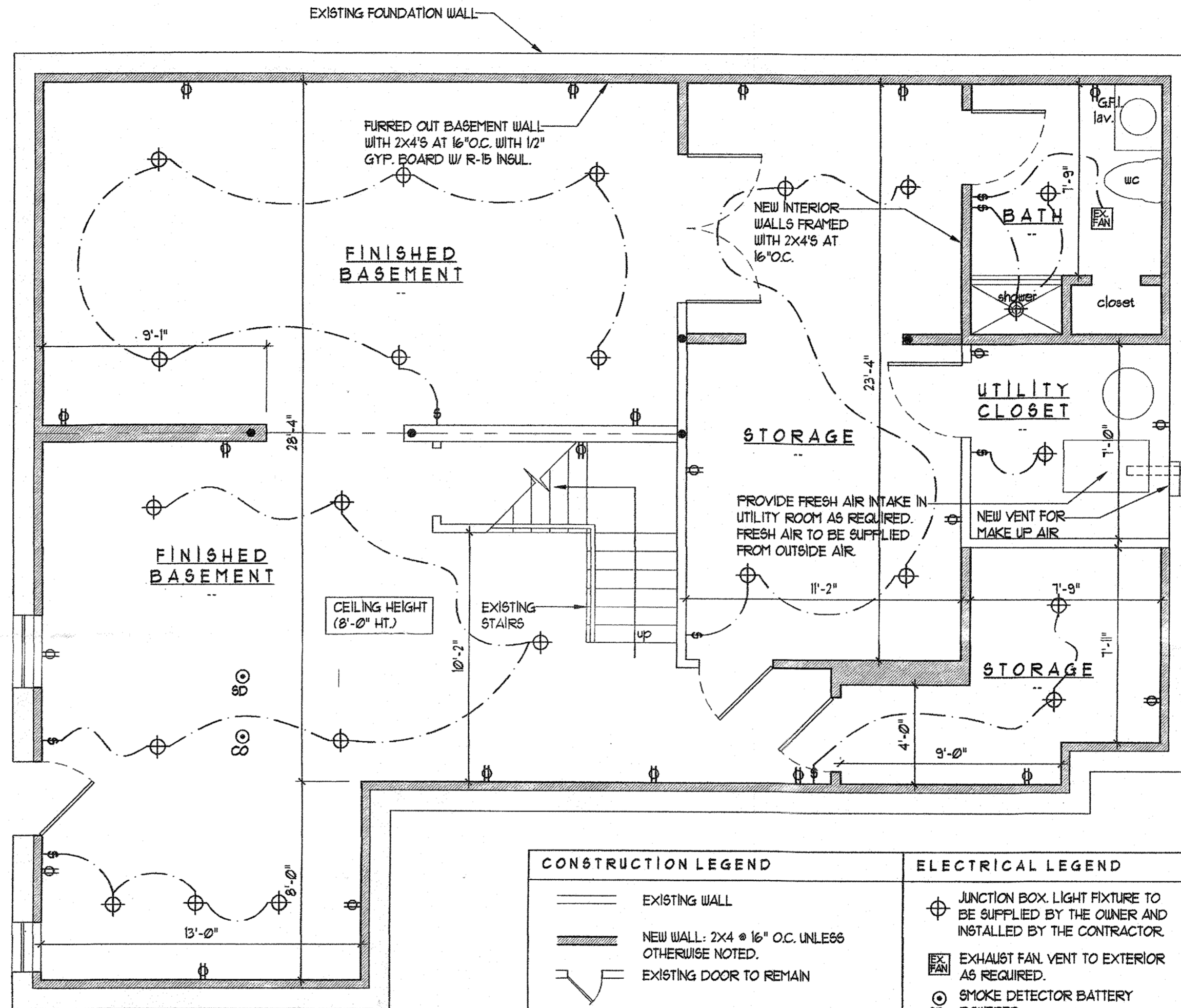
ZONING & BLDG. DEPT.  
TOWN OF ORANGETOWN

ROBERT HOENE ARCHITECT

ARCHITECT  
— A.I.A. —

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APPLICANT'S COPY



## AS-BUILT BASEMENT FLOOR PLAN

SCALE: 1/4" = 1'-0"

BASEMENT LEVEL IS NOT TO BE USED FOR SLEEPING PURPOSES OR SECOND DWELLING

## CONSTRUCTION LEGEND

- EXISTING WALL
- NEW WALL: 2X4 @ 16" O.C. UNLESS OTHERWISE NOTED.
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED.
- NEW DOOR
- REVISION DESIGNATION

## ELECTRICAL LEGEND

- JUNCTION BOX. LIGHT FIXTURE TO BE SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
- EXH. FAN EXHAUST FAN. VENT TO EXTERIOR AS REQUIRED.
- SD SMOKE DETECTOR BATTERY POWERED
- CO CARBON MONOXIDE DETECTOR BATTERY POWERED
- DUPLX. INSTALL 14" AFF UNLESS OTHERWISE NOTED
- GF.I. DUPLX W/ GROUND FAULT INTERRUPTER
- SW. SWITCH. INSTALL 48" AFF. UNLESS OTHERWISE NOTED.
- 3-WAY SWITCH. INSTALL 48" AFF. UNLESS OTHERWISE NOTED.

## GENERAL PROJECT NOTES:

- TO THE BEST OF MY PROFESSIONAL OBSERVATIONS, THE DRAWING DENOTES AS BUILT CONDITIONS AS WE FOUND.
- INSULATION WALL VALUES APPEARS TO MEET CODE AT THE TIME OF CONSTRUCTION.
- THE ORIGINAL DESIGN SPECIFICATIONS, ETC. DONE BY OTHERS AT PERIOD OF TIME IT WAS CONSTRUCTED. OUR PRESENT INVOLVEMENT IS TO PROVIDE AS BUILT DRAWING CERTIFICATION

R303.1  
ROOM = 871 SQUARE FEET.  
LIGHT = 8% = 70 sq. ft. REQUIRED  
DOOR = 2.41% = 21 sq. ft. PROVIDED  
ARTIFICIAL LIGHT = AVG. 65 LUX REQUIRED

LAMPS = AVG. 75 LUX PROVIDED  
total light provided exceeds the required

M402.25  
VENT = 4% = 35 sq. ft. REQUIRED  
52 sq. ft. PROVIDED

DRAWN: FN  
CHECKED: ROBERT HOENE  
DATE: 06-20-2018  
SCALE: AS NOTED

ROBERT HOENE ARCHITECT  
ARCHITECT  
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ROBERT HOENE, AIA  
Professional Seal

JOB# 1830  
A1.0  
1 of 1

## GENERAL NOTES & AS BUILT BASEMENT FLOOR PLAN

### FINISHED BASEMENT AS-BUILT 1 HAUSER TERRACE TAPPAN, NEW YORK

date	issue	description	by
06-20-2018	'A'	AS-BUILT DRAWING	FN
07-16-2018	△	NOTE AS PER BLDG. DEPT	FN



**GENERAL NOTES:**

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT.
- THE BUILDING, PLUMBING AND SANITARY ORDINANCES OF THE TOWN IN WHICH THE WORK IS BEING DONE AND THE STATE BUILDING CODES, SHALL BE CONSIDERED A PART OF THESE GENERAL NOTES.

- ALL CONTRACTORS SHALL HAVE AND MAINTAIN CONTRACTORS LIABILITY, PROPERTY DAMAGE INSURANCE AND WORKMAN'S COMPENSATION INSURANCE.
- IT SHALL BE UNDERSTOOD THAT THE SCOPE OF THESE DRAWINGS INCLUDES ONLY BASIC STRUCTURAL AND ARCHITECTURAL INFORMATION AND THAT NO FURTHER LIABILITY WILL BE ASSUMED BEYOND THESE SIGNED AND SEALED DOCUMENTS.

**GENERAL SPECIFICATIONS:**

- THESE SPECIFICATIONS ARE GENERAL IN FORM. THE OWNER IN APPLYING ASSUMES COMPLETE RESPONSIBILITY FOR THEIR USE, SUBSTITUTIONS, CHANGES AND OMISSIONS.
- SCOPE OF WORK:  
THE CONTRACTOR SHALL APPLY ALL MATERIALS AND LABOR NECESSARY TO COMPLETE ALL WORK NOTED ON THE PLANS AND AS OTHERWISE REQUIRED. ALL MATERIALS SHALL BE NEW AND FREE FROM ANY DEFECTS. ALL WORK SHALL BE PERFORMED IN A COMPETENT WORKMANLIKE MANNER ACCEPTABLE WITH TRADE STANDARDS.

**EXCAVATION / SITE WORK:**

- FOUNDATION:  
EXCAVATE ALL EARTH, ROCKERS, LOOSE AND SOFT UNDISTURBED ROCK AS REQUIRED. ALL FOOTING SHALL BEAR ON SOLID UNDISTURBED EARTH.

EARTH SHALL BE CAPABLE OF SUPPORTING TWO TONS PER SF. ALL FOOTINGS SHALL BE CARRIED TO A MINIMUM OF 5'-0" BELOW GRADE (CHECK LOCAL REQUIREMENTS).

**FINISH GRADING:**

FINISH GRADING SHALL BE ESTABLISHED TO PROVIDE SURFACE DRAINAGE IN ALL DIRECTIONS AWAY FROM THE HOUSE AND EXCAVATED AREAS.

**MASONRY / CONCRETE:**

**1. CONCRETE:**

CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 P.S.I. @ TWENTY-EIGHT DAYS.

**2. MASONRY BLOCKS:**

BLOCKS SHALL BE HOLLOW LOAD BEARING UNITS, CONFORMING TO ASTM C-90 GRADE ALL. THEY SHALL BE Laid LEVEL, PLUM AND STRAIGHT IN A FULL BED OF MORTAR.

**3. BRICK / STONE VENEER (IF APPLICABLE):**

SHALL BE SHOWN ON DRAWING. Laid IN A FULL BED OF MORTAR WITH GALVANIZED TIES 2'-0" O.C. HORIZONTAL AND VERTICAL. ALL JOINTS SHALL BE WELL TOOLED.

**CARPENTRY AND MILLWORK:**

1. FRAMING OF DWELLING SHALL BE ERECTED PLUMB, LEVEL AND TRUE AND SECURELY Nailed. SOLID SAWN LUMBER SHALL BE GRADE STAMPED AT THE FACTORY, SURFACED DRY AND OF THE FOLLOWING SPECIE AND GRADE FOR INDICATED USE:  
RAFTERS, FLOOR JOISTS, SUDS AND PLATES (2" X 6" OR LARGER) HEM FIR #1 OR DOUG. FIR LARCH #2  
HEADERS, GIRDERS, PLITCH BEAMS DOUG. FIR LARCH #2  
SUDS AND PLATES HEM FIR SUDS GRADE

- ALL PLUMB HEATER BEAMS, ETC. SHALL BE SECURED WITH STEEL JOIST HANGERS.
- DOUBLE JOISTS PARALLEL TO PARTITIONS ABOVE.
- CROSS BRIDGE ALL FLOOR JOISTS AT MID SPAN (SPANS OVER 8'-0")
- ALL EXT. HEADERS TO BE A MINIMUM OF (2) 2" X 12" S (UNLESS OTHERWISE NOTED)
- TRIM SHALL BE STOCK SECTIONS OF PINE AND SHALL BE NEATLY Nailed, INCLUDING DOOR AND WINDOW CASING, APRONS, STOODS, BASE AND QUARTER ROUNDS AT WOOD FLOORS, CLOSETS TO HAVE 5/4" SHELF WITH CLOTHES POLE OR FLOOR TO CEILING SHELVES (DEPENDENT ON USAGE).

**THERMAL AND MOISTURE PROTECTION:**

- WATERPROOF BASEMENT WALLS WITH HEAVY APPLICATION OF BITUMEN FOUNDATION COATING BELOW GRADE PROVIDE A 4" DIAMETER FOOTING DRAIN AROUND FOOTING BASE (BASEMENT) IN GRAVEL BED WITH SALT HAY OVER DRAIN TO POSITIVE OUTFLOW.
- INSULATE ALL EXTERIOR WALLS AND CEILING WITH FIBERGLASS BLANKET INSULATION (POOL FACED). SIZES AS CALLED ON DRAWING.
- ROOFING TO BE FIBERGLASS SHINGLES OVER 15# FELT. ALL CHIMNEYS, VALLEYS AND INTERSECTIONS SHALL BE PROPERLY FLASHED, PROVIDE ALUMINUM GUTTERS AND LEADERS.
- VENTILATE ALL ATTIC AND RAFTER SPACES WITH PROPER SIZED SCREENED RIDGED, SOFFIT VENTS AND LOWERS. TAPE INSULATION TO ALLOW AIR FLOW.

**DOORS AND WINDOWS:**

- WINDOWS SHALL BE CLAD WOOD WINDOWS WITH DOUBLE PANE GLASS. SIZES AND TYPES AS SHOWN ON DRAWINGS.
- DOORS- INTERIOR DOORS SHALL BE 1 3/4" THICK STAIN GRADE UNITS COMPLETE WITH HARDWARE AND CASING. EXTERIOR DOORS SHALL BE METAL INSULATED PREHANG UNITS.

**FINISHES:**

- GYPSEUM BOARD SHALL BE MINIMUM 1/2" THICK, SECURED WITH NAILS OR SCREWS. ALL JOINTS SHALL BE TAPERED AND SPACKLED WITH THREE COATS OF JOINT COMPOUND. GARAGE AREAS TO RECEIVE 5/8" TYPE X GYPSUM BOARD. BATHS TO RECEIVE W/R GYPSUM BOARD IN WET AREAS.
- PAINTING: EXTERIOR FASCIA TRIM AND SIDING SHALL RECEIVE TWO COATS OF STAIN OR PAINT OVER PRIMER. INTERIOR WALLS, TRIM, DOORS ETC. TO RECEIVE TWO COATS OF STAIN OVER PRIMER OR STAIN.

**PLUMBING:**

PROVIDE A COMPLETE PLUMBING SYSTEM WITH ALL MATERIALS AND WORKMANSHIP FOR AREAS AS SHOWN ON DRAWINGS. ALL FIXTURES TO BE BY AMERICAN STANDARD OR EQUAL. ALL WORK TO MEET ALL CODES.

**HEATING AND AIR CONDITIONING:**

ALL HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE DESIGNED BY THE INSTALLING CONTRACTOR IN CONFORMANCE WITH BASIC MECHANICAL CODE. HEATING SHALL BE CAPABLE OF MAINTAINING 72 DEGREES. AIR CONDITIONING SHALL MAINTAIN A 19 DEGREE DROP. ALL EQUIPMENT TO CONFORM TO ENERGY CODE.

**ELECTRICAL:**

ALL WORK SHALL COMPLY WITH REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND LOCAL ORDINANCES. ALL MATERIALS SHALL BE NEW, HIGH GRADE, AND SUITABLE AND INSTALLED WITH GOOD QUALITY WORKMANSHIP. PROVIDE OUTLETS, FIXTURES AND SWITCHES AS PER ELECTRICAL CODE REQUIREMENTS.

**SMOKE DETECTORS:**

PROVIDE SMOKE DETECTORS (HARD WIRE) IN ALL BEDROOMS, HALL AREAS (NEAR BEDROOMS), ATTIC, AND BASEMENT. INSTALLATION TO MEET ALL CODES.

**NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE NOTE:**

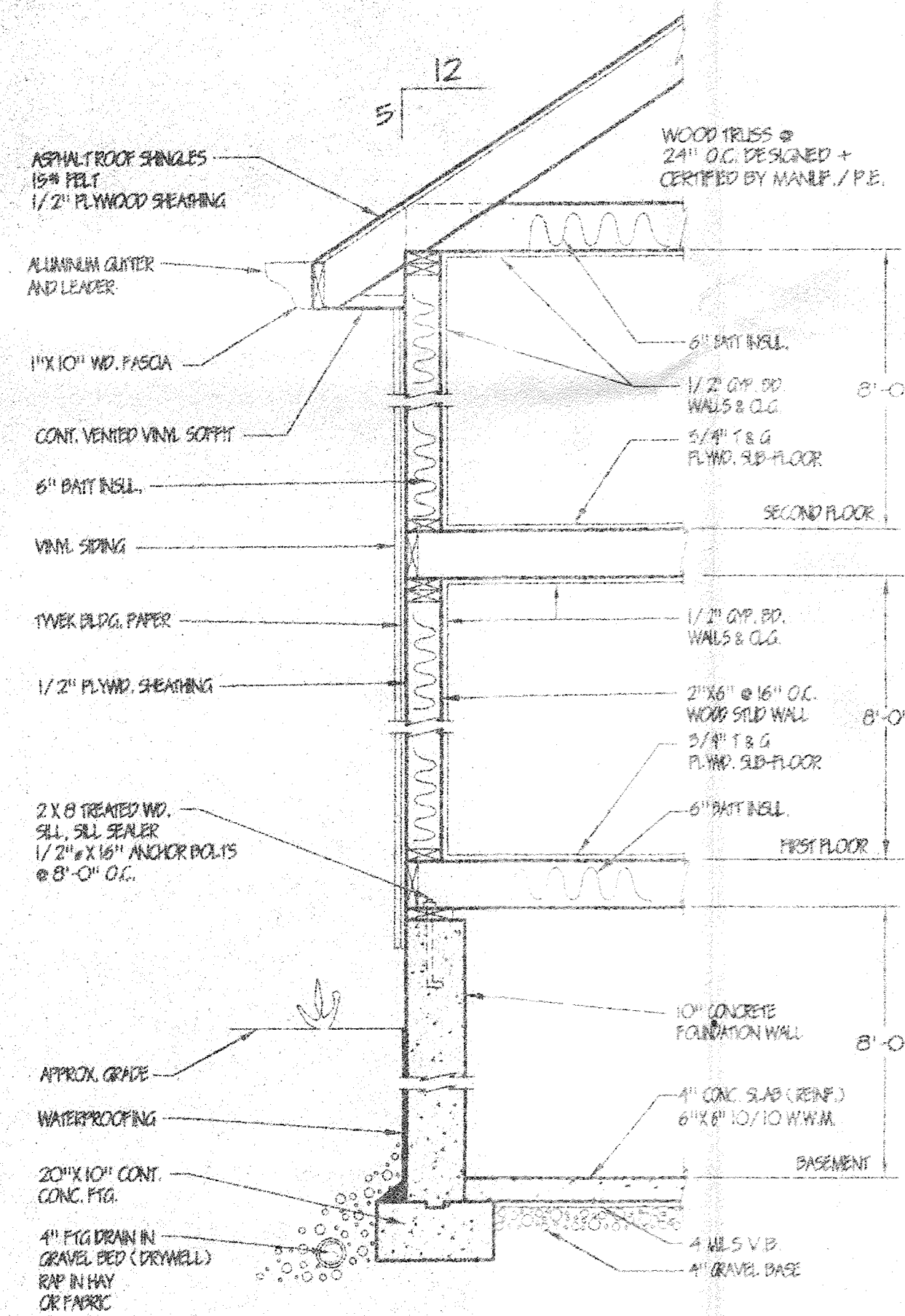
THIS RESIDENCE AND/OR ADDITION WAS DESIGNED TO COMPLY WITH THE LATEST NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE.

LOCATION	NON-ELECTRIC COMFORT HEATING	
	REQUIRED THERMAL PERFORMANCE	PROVIDED THERMAL PERFORMANCE
ROOF / CEILING	R-20	R-20
FLOOR	R-20	R-20
EXTERIOR WALL	R-20	R-20
GLAZING	R-1.72	R-1.96
ENTRANCE DOOR	R-2.5	R-5.59
SLAB EDGE		
INSULATION	R-10.0	R-10.0
BASEMENT / CELLAR WALL	R-0.9	R-10.0
PERMITS DAYS= 6000		

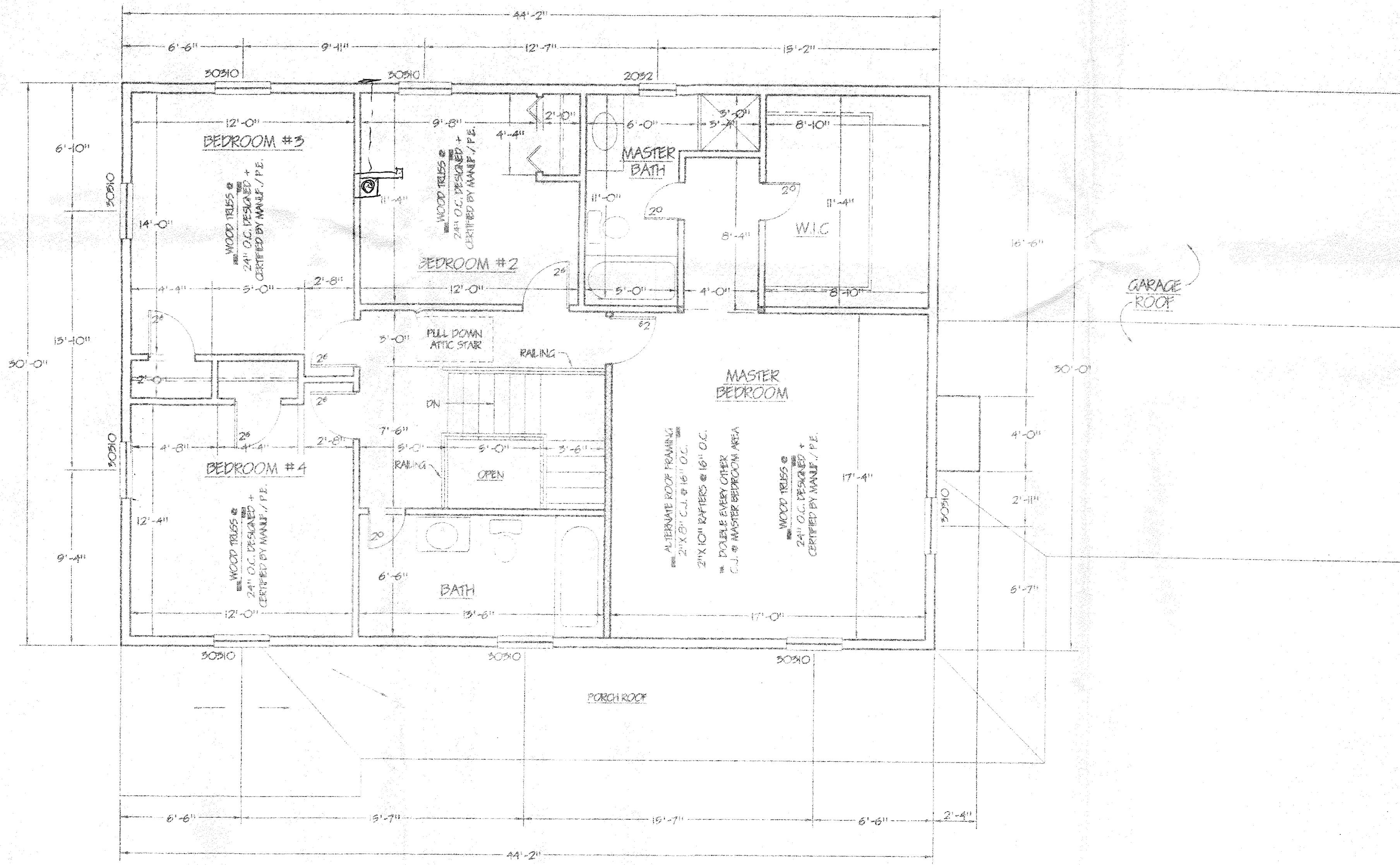
**HVAC / MECHANICAL**

GAS / OIL FURNACE  
HEAT PUMP

MINIMUM 75% EFFICIENCY  
MINIMUM 2.5 COP @ 47 DEGREES &  
MINIMUM 1.5 COP @ 17 DEGREES &  
MINIMUM 2.0 COP (19 KW, MIN. 2.2 COP) 19 KW  
MINIMUM STANDBY LOSS= 4 WATT HR / HR / SQ. FT.  
MINIMUM 75% EFFICIENCY  
MINIMUM 80% EFFICIENCY



TYPICAL WALL SECTION  
1/2" = 1'-0"



SECOND FLOOR PLAN  
1/4" = 1'-0"

Specialized Homes  
72 Colonial Court  
Poughkeepsie, NY 10885  
(914) 735-6600

REVISIONS

JOB # 9735

MARCH 1997

R.H. - A.P.

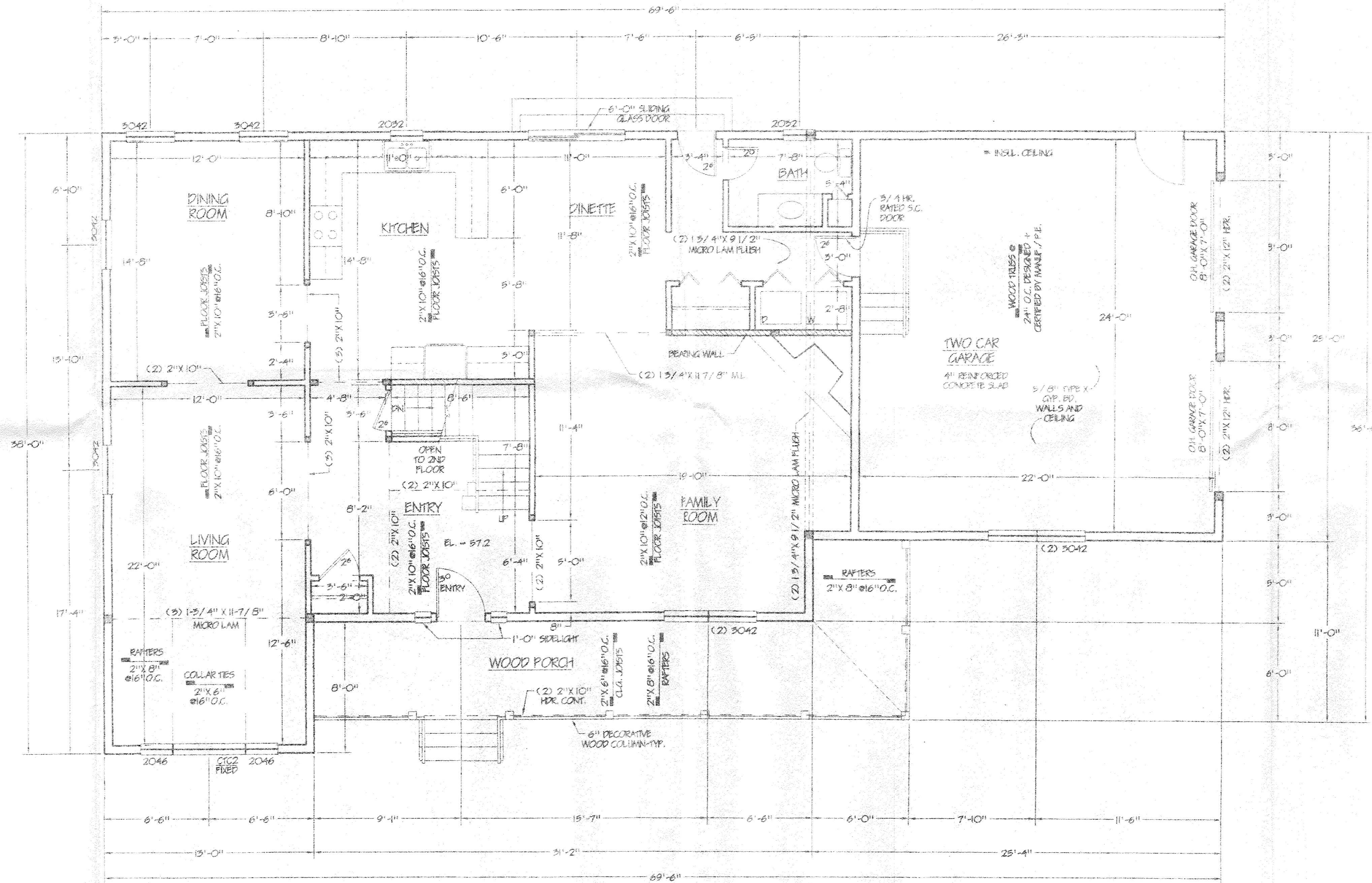
SCALE AS NOTED

PROPOSED RESIDENCE FOR:  
**MR. M. FAIRCLOUGH**  
TAPPAN, NEW YORK

**ROBERT HOENE A.I.A.**  
ARCHITECT  
379 PIERMONT AVE.  
PIERMONT, NEW YORK  
10866  
(914) 359-6723

A-4





FIRST FLOOR PLAN  
1/4" = 1'-0"

Specialized Homes  
72 Colonial Court  
Peel River, NY 10968  
(814) 735-8600

REVISIONS

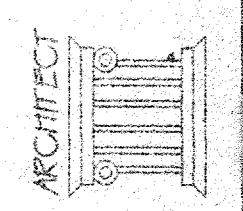
JOB # 9735  
MARCH 1997  
R.H. - A.P.

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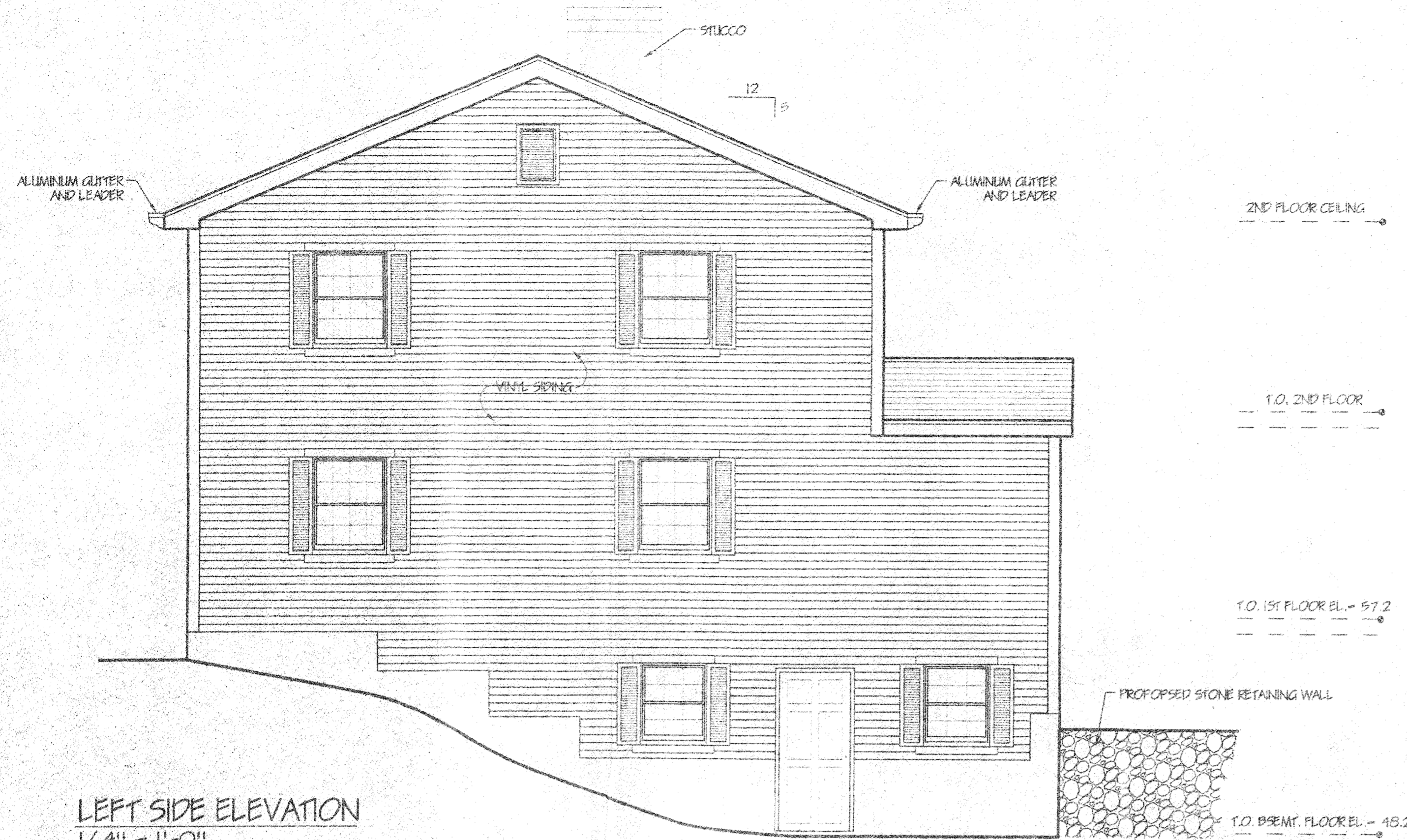
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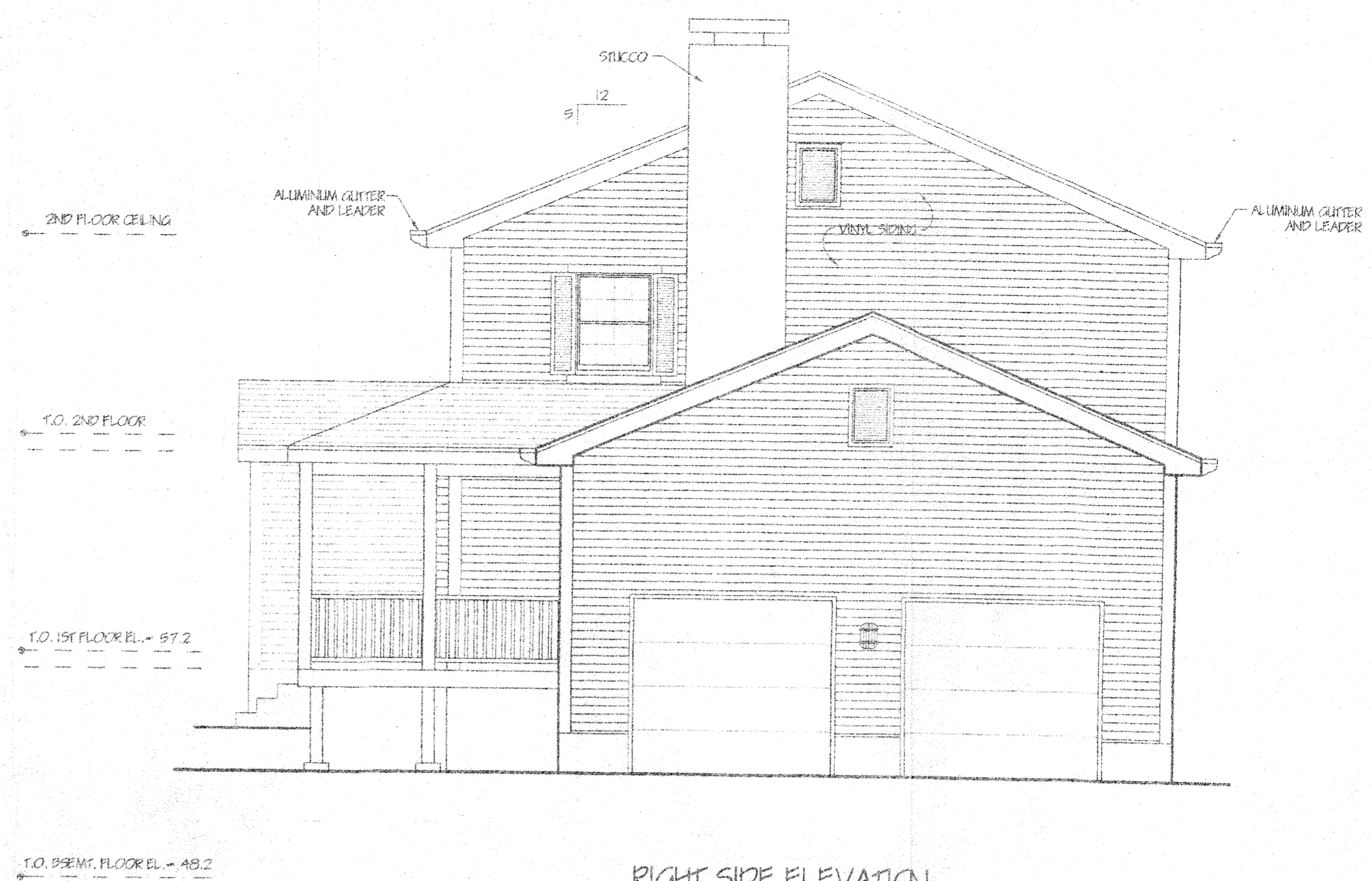
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DRAWING - 3 OF 4

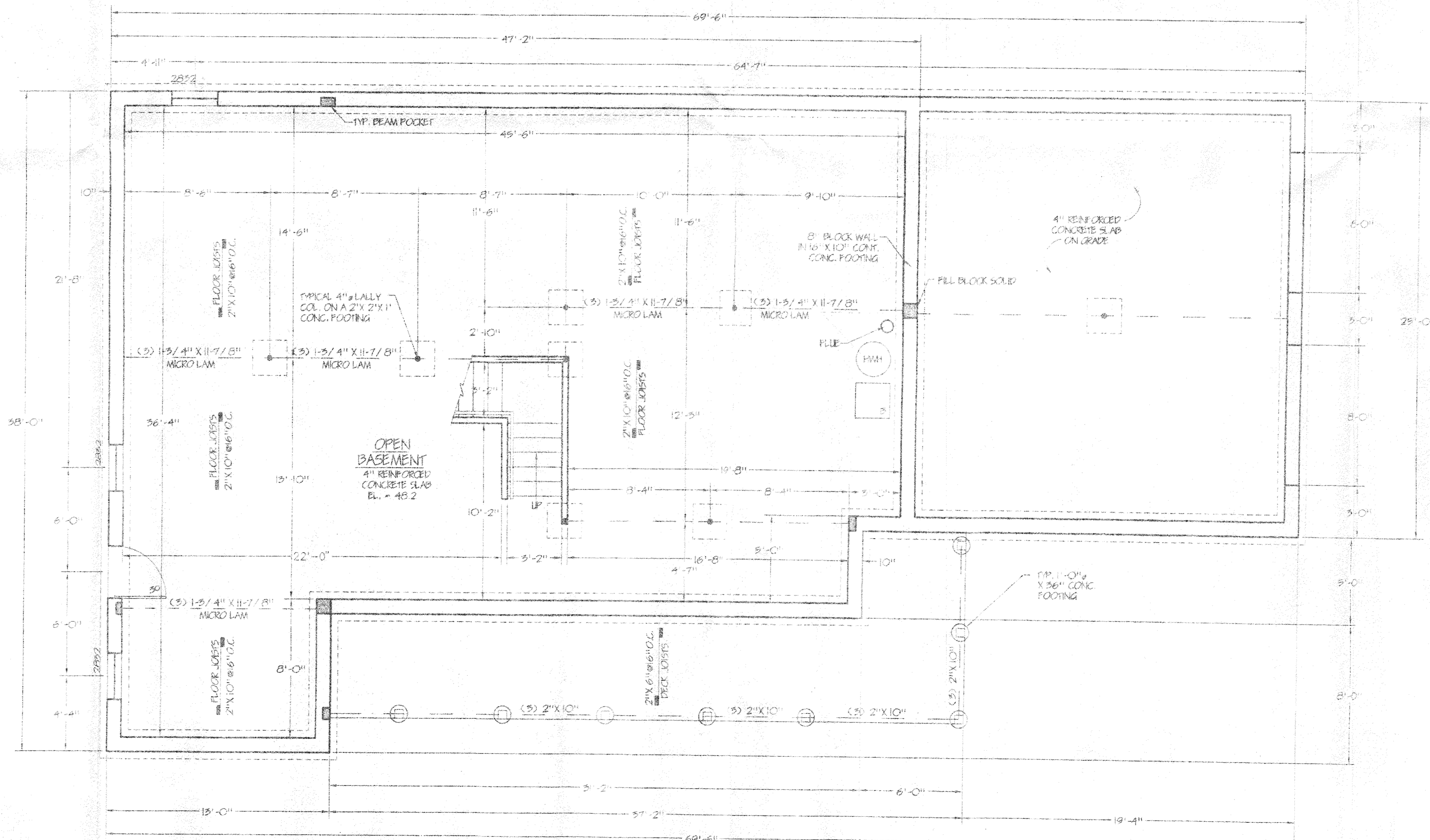




LEFT SIDE ELEVATION  
1/4" = 1'-0"



RIGHT SIDE ELEVATION  
1/4" = 1'-0"



FOUNDATION PLAN  
1/4" = 1'-0"

Personalized Homes  
72 Colonial Court  
Pearl River, NY 10985  
(914) 738-6600

REVISIONS

JOB # 9735	MARCH 1997	RH - AP	SCALE AS NOTED
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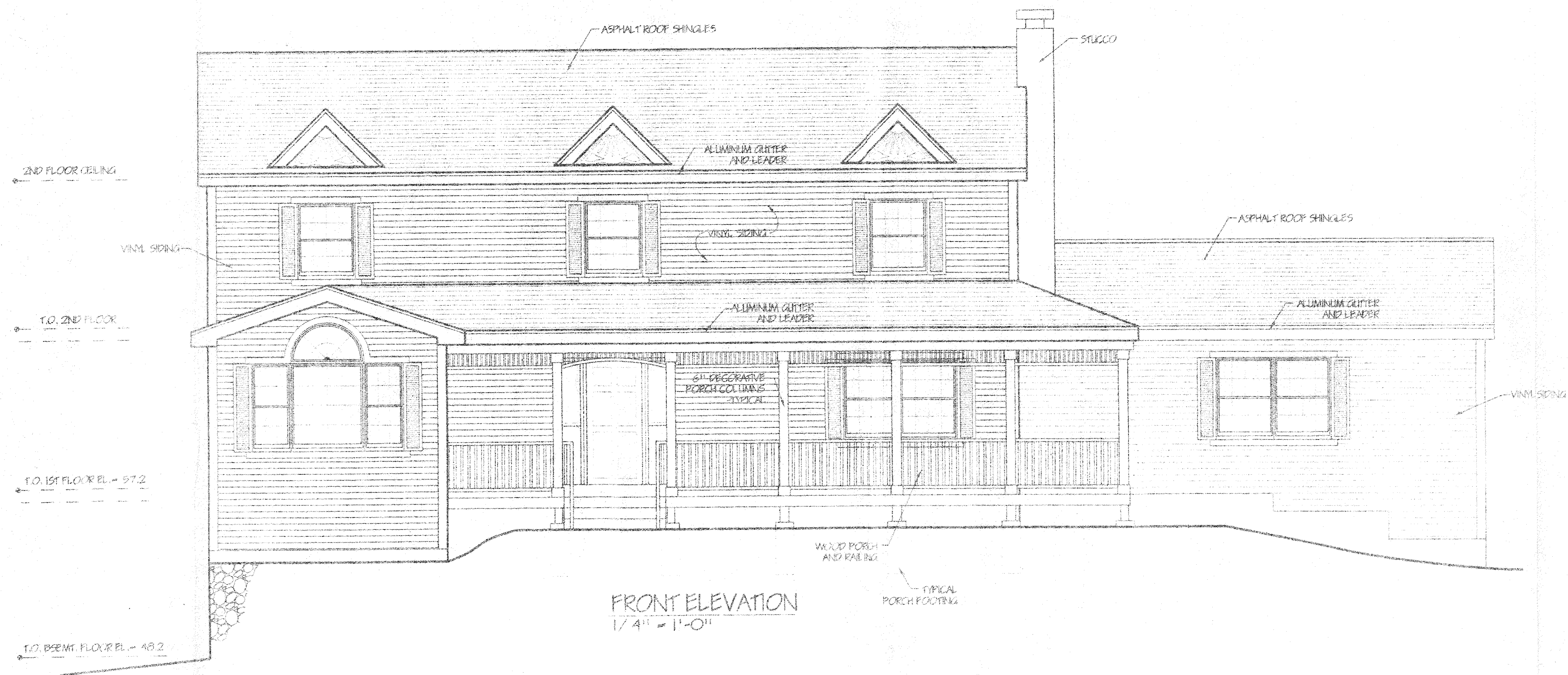
PROPOSED RESIDENCE FOR:  
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TAPPAN, NEW YORK

SEAL

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**A-2**  
DRAWING - 2 OF 4





Personalized Homes  
 72 Colonial Court  
 Pearl River, NY 10968  
 (914) 735-6633

REVISIONS
JOB # 9735
MARCH 1997
R.H. - AP.
SCALE AS NOTED

PROPOSED RESIDENCE FOR:  
**MR. M. FAIRCLOUGH**  
 TAPPAN, NEW YORK

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**A**  
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