

Department of Planning and Zoning

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MEMORANDUM

To: The Design Advisory Board
From: Mary O'Neil, AICP, Senior Planner
RE: ZP 13-0979CA 91 North Winooski Avenue
Date: May 14, 2013

File: ZP 13-0979CA
Location: 91 North Winooski Avenue
Zone: RM **Ward:** 3
Date application accepted: April 19, 2013

Applicant/ Owner: Wayne Nelson

Request: Convert existing accessory structure to one residential apartment (there are 3 existing units; four proposed); construct staintower, changing roof; adding rooftop deck.

Background:

- Zoning Permit 02-112; Convert dentist office into one residential apartment for a total of three residential units. Approved September, 2001.
- Request for lot coverage variance to extend the parking area. Denied, December 1986.

Overview: 91 North Winooski Avenue is currently a three-unit residential use with an existing accessory structure in the rear. The applicant wishes to convert the accessory structure (barn) into a one-bedroom apartment, with modifications to the roofline, windows, and doors. No change to site coverage or parking area is proposed, although the parking may be re-lined to identify new parking spaces.

Article 5: Citywide General Regulations

Section 5.4.8 Historic Buildings and Sites

91 North Winooski Avenue, including the barn, is on the Vermont State Register of Historic Resources.



1986 zoning file photo

1. *A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.*

The existing accessory structure was historically used for storage. The proposed conversion to a residential unit is and of itself does not suggest that dramatic changes need occur; however the proposed roof alteration and deck are not in character with the original (flat) roof form and are therefore in conflict with this standard.



2. *The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.*

The application does not reflect avoidance of alteration of features; the addition of a roof access tower and alteration of the roof will change the character of the historic barn structure, and therefore in conflict with this standard.

Some alteration of window and door openings may be anticipated; however the characteristic “loft” door on the east should be retained in some iteration.

3. *Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.*

The building did not originally have a roof access stairway or deck. There are recommended to be eliminated from the plan.

4. *Changes to a property that have acquired historic significance in their own right will be retained and preserved.*

Little has changed with this historic accessory building. Photographs only demonstrate the replacement of the garage door, which has no significance to the historic integrity of the building and does not merit retention.

5. Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.

The existing flat roof is a distinctive feature, and should be retained.

6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials recognizing that new technologies may provide an appropriate alternative in order to adapt to ever changing conditions and provide for an efficient contemporary use. Replacement of missing features will be substantiated by documentary and physical evidence.

Replacements windows are proposed to be wood double hung, and resemble the original in multi-light fenestration pattern. Siding is recommended to match the existing, except in such circumstances as may be required to meet a fire rating (on the north elevation.)

7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.

No chemical treatments are proposed within the application. The paint failure will require attentive remediation to prevent release of lead-born dust and paint particles. Removal or attenuation with abrasive methods is prohibited.

8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.

There are no known archaeological resources at this site. If any items are unearthed while burying utility or service lines, appropriate authorities shall be contacted for assessment and removal.

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

Conversion of interior use from storage to residential is not problematic, if it does not predicate alteration of those features that characterize a historic property. The proposed roof alteration, with a deck and access stairway, however, negatively alters the features and spatial relationship that characterize the property, and therefore conflict with this standard.

Window and door alterations, particularly on secondary elevations, may be expected. The removal of the newer double garage door does not trigger special concern; however the proposed new entry door might better reflect the original large entry portal than is reflected in the plan. Perhaps the original door opening may be outlined in trim, with solid infill and a paired set of doors with a single active entry might better convey the original opening.

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

It may remotely be possible to consider the rooftop alterations reversible, it is unlikely. The proposed alterations will alter the character and essential form of the existing historic carriage barn.

Article 6: Development Review Standards

Part 1: Land Division Design Standards

Not applicable.

Part 2: Site Plan Design Standards

Not applicable.

Part 3: Architectural Design Standards

Sec. 6.3.2 Review Standards

(a) Relate development to its environment:

Proposed buildings and additions shall be appropriately scaled and proportioned for their function and with respect to their context. They shall integrate harmoniously into the topography, and to the use, scale, and architectural details of existing buildings in the vicinity.

The following shall be considered:

1. Massing, Height and Scale:

The application is to change the use of an existing structure, making roof form alterations to allow access. The scale is not proposed to change; however the massing and height are. Even understanding that this is not a primary building on the site but a secondary (accessory) structure, there is value in retaining that distinction and preserving the form and massing of the original building, absent the stair tower access.

Additionally, the proposed condensing unit is situated in the front (northeast) corner of the roof, and at almost 5' in height, will unfortunately be extremely visible. Its relocation; perhaps to the rear of the site, is highly recommended.

2. Roofs and Rooflines.

The flat roof (slight shed with parapeted sides) is one of the most character defining features of the structure (as noted in the Vermont State Register listing), and is recommended for retention. The condensing unit should be relocated to reduce its visibility. A ground mount, behind the building would be a better choice.

3. Building Openings

Replacement doors and windows are proposed within the renovation. The large central garage door opening is proposed to be replaced with a pedestrian door; with small windows on either side. Overall relocation of windows is proposed on the other elevations, with none suggested on the north.

It is suggested that the original, large opening for the carriage barn be retained in trimwork; and the replacement door be configured within that defined opening. The use of a paired entry door

within that outline or some larger element would help retain a visual component to remind residents of the earlier use.

(b) Protection of Important Architectural Resources:

Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Where the proposed development involves buildings listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8. The introduction of new buildings to a historic district listed on a state or national register of historic places shall make every effort to be compatible with nearby historic buildings.

See Section 5.4.8, above.

(c) Protection of Important Public Views:

There are no public views from this site. Not applicable.

(d) Provide an active and inviting street edge:

This is an accessory structure behind a primary structure, and therefore has limited street presence. It is recommended, however, that thoughtful planning around the building entrance will soften that point between structure and paved parking; that some landscaping, walkways, or patio area be considered for the benefit and pleasure of the residents and appearance of the site.

(e) Quality of materials:

All development shall maximize the use of highly durable building materials that extend the life cycle of the building, and reduce maintenance, waste, and environmental impacts. Such materials are particularly important in certain highly trafficked locations such as along major streets, sidewalks, loading areas, and driveways. Efforts to incorporate the use of recycled content materials and building materials and products that are extracted and/or manufactured within the region are highly encouraged.

Owners of historic structures are encouraged to consult with an architectural historian in order to determine the most appropriate repair, restoration or replacement of historic building materials as outlined by the requirements of Art 5, Sec. 5.4.8.

The application proposes woodclapboard, and a metal roof. The windows are defined as wood double hung. All are acceptable as considered durable.

(f) Reduce energy utilization:

New construction shall meet the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.

New structures should take advantage of solar access where available, and shall undertake efforts to reduce the impacts of shadows cast on adjacent buildings where practicable, in order to provide opportunities for the use of active and passive solar utilization.

Solar is encouraged, but not required. Shadow impacts are not a big concern, as this is an existing building. The proposed stair tower is not likely to cause large shadows, if approved.

(g) Make advertising features complementary to the site:

Any signage will require a separate permit. Not applicable.

(h) Integrate infrastructure into the building design:

Exterior machinery and equipment installations, service and loading areas, utility meters and structures, mailboxes, and similar accessory features shall utilize setbacks, plantings, enclosures and other mitigation or screening methods to minimize their auditory and visual impact on the public street and neighboring properties.

Rooftop mechanicals, including heating and cooling devices and elevator equipment, should be incorporated into the structure's design, and shall be arranged to minimize their visibility from the street level. Such features, in excess of one foot in height, shall be either enclosed within the roof structure, outer building walls, or parapets, or designed so that they are integrated into the overall design and materials of the building.

Any development involving the installation of machinery or equipment which emits heat, vapor, fumes, vibration, or noise shall minimize any adverse impact on neighboring properties and the environment pursuant to the requirements of Article 5, Part 5 Performance Standards.

Electrical, water, sewer, and telecommunications are proposed to be undergrounded.

Elevations and site plan do not detail the location of meters, mailboxes or utility boxes. The identification of these is a requirement. Additionally, there is no identified location for trash or recycling (presumably this storage building was at the disposal of the existing three units.) The new location for a dumpster, with plans for the structure and screening, will be a requirement.

Bicycle storage will be a requirement, (Article 8, Tab:e 8.2.5-1) with 1 bicycle parking space for every four units. An identified bike parking spot will be required.

The proposed side vent for the boiler appears to project into a required side yard setback.

The proposed compressor, which as proposed is in excess of the 1' in height noted and intended for the roof of the structure, is not "incorporated into the structure's design, and arranged to minimize visibility." Relocation to a less visible location, preferably along the side of rear of the property, would meet this standard. An estimated decibel level reading (40-50) would suggest the same noise level as a driving rain, but may not be appreciated around the clock by neighbors. Relocation to an area that would be screened from other residential units and minimize audible levels would be required by this standard.

(i) Make spaces secure and safe:

Development shall meet all life safety and building code requirements as defined by the fire marshal and the building inspector's offices.

Recommendation:

1. Forward to the Development Review Board with a recommendation for approval of the minor Planned Unit Development, without the rooftop stair access tower and decking.
2. Relocation of the compressor to an exterior pad to be located on a side or rear elevation. This will be noted on a revised site plan. Additional screening may be required.
3. Additional landscaping shall be provided in the front (east) of the structure, to warm the entryway and to provide a more attractive and active streetfront. A revised site plan shall be submitted to demonstrate that change.
4. Identification of all utility meters, mailboxes, and any other external components on the elevations and/or site plan, as appropriate.
5. Staff recommends identification of the original carriage door opening through detail outlining (wood casing, wood infill) with perhaps a paired or enlarged front door within that area. This will provide a tangible identifier for the original carriage barn access portal.
6. The “loft” window is recommended for retention, in some visibly identifiable manner. A cross-buck window, as illustrated, may suffice.
7. The boiler vent shall be relocated to another space outside the required (5’) side yard setback.
8. A Vermont State Wastewater and potable water permit will be required.
9. The applicant will be required to provide a written water and wastewater capacity letter from the city of Burlington Department of Public Works for the additional new residential unit.
10. Standard Permit Conditions 1-15.



91 North Winooski Ave - Existing Building East Elevation

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91 North Winooski Ave - Existing Building South Elevation

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91 North Winooski Ave - Existing Building West Elevation #1

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91 North Winooski Ave - Existing Building West Elevation #2 (Upper Level)

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91 North Winooski Ave - Existing Building North Elevation

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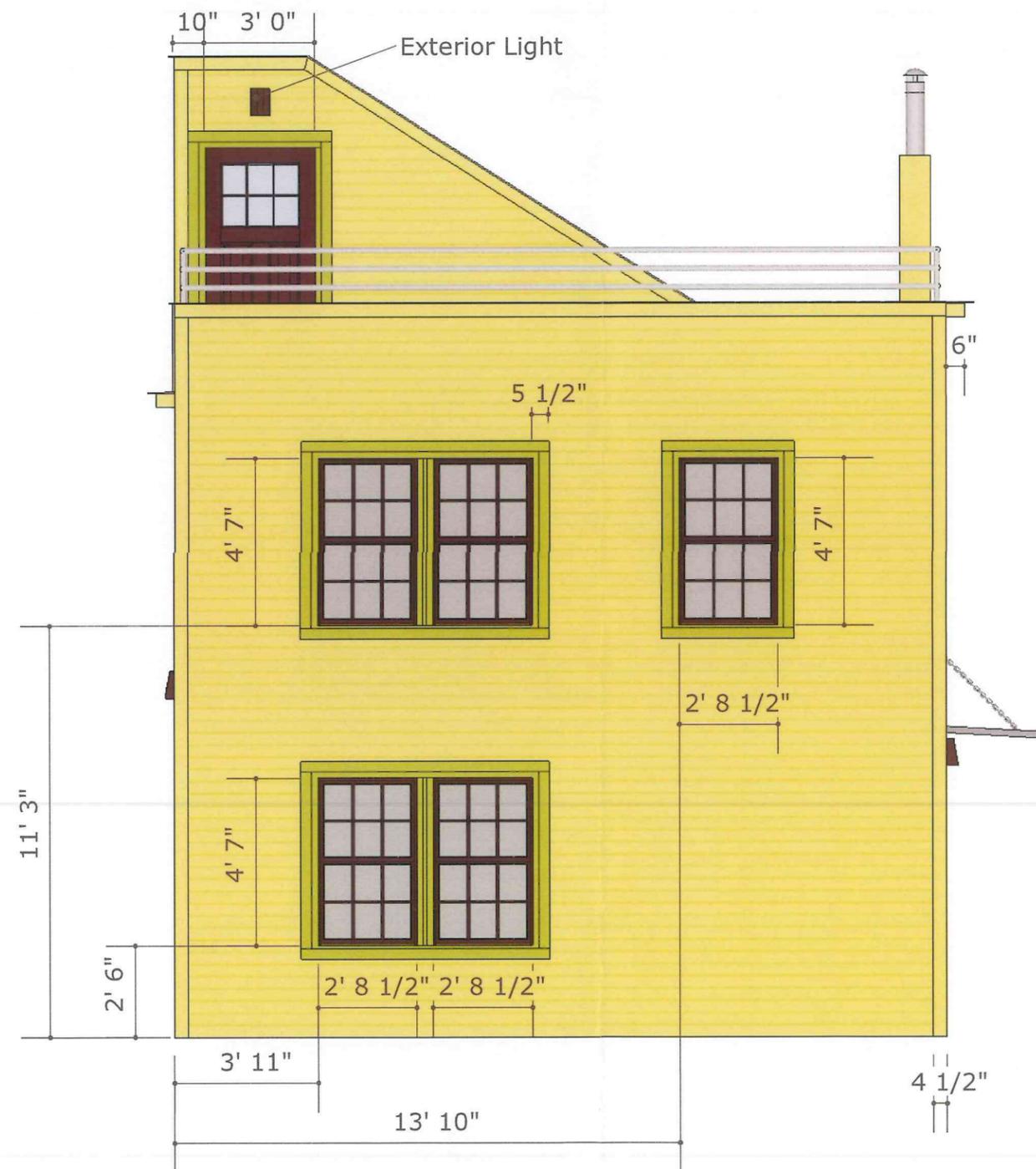
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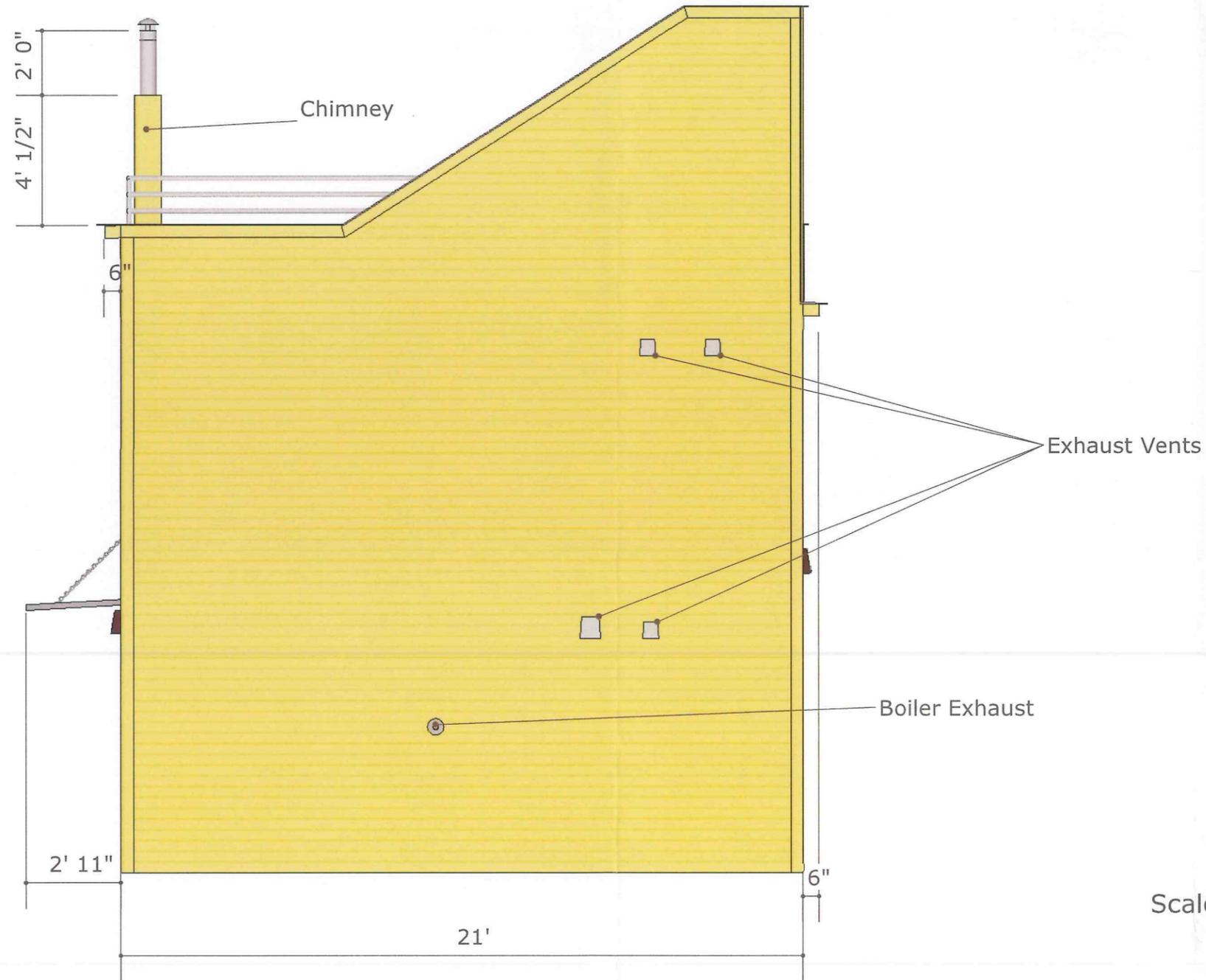
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Siding to be wood clapboard
Paint color to match existing

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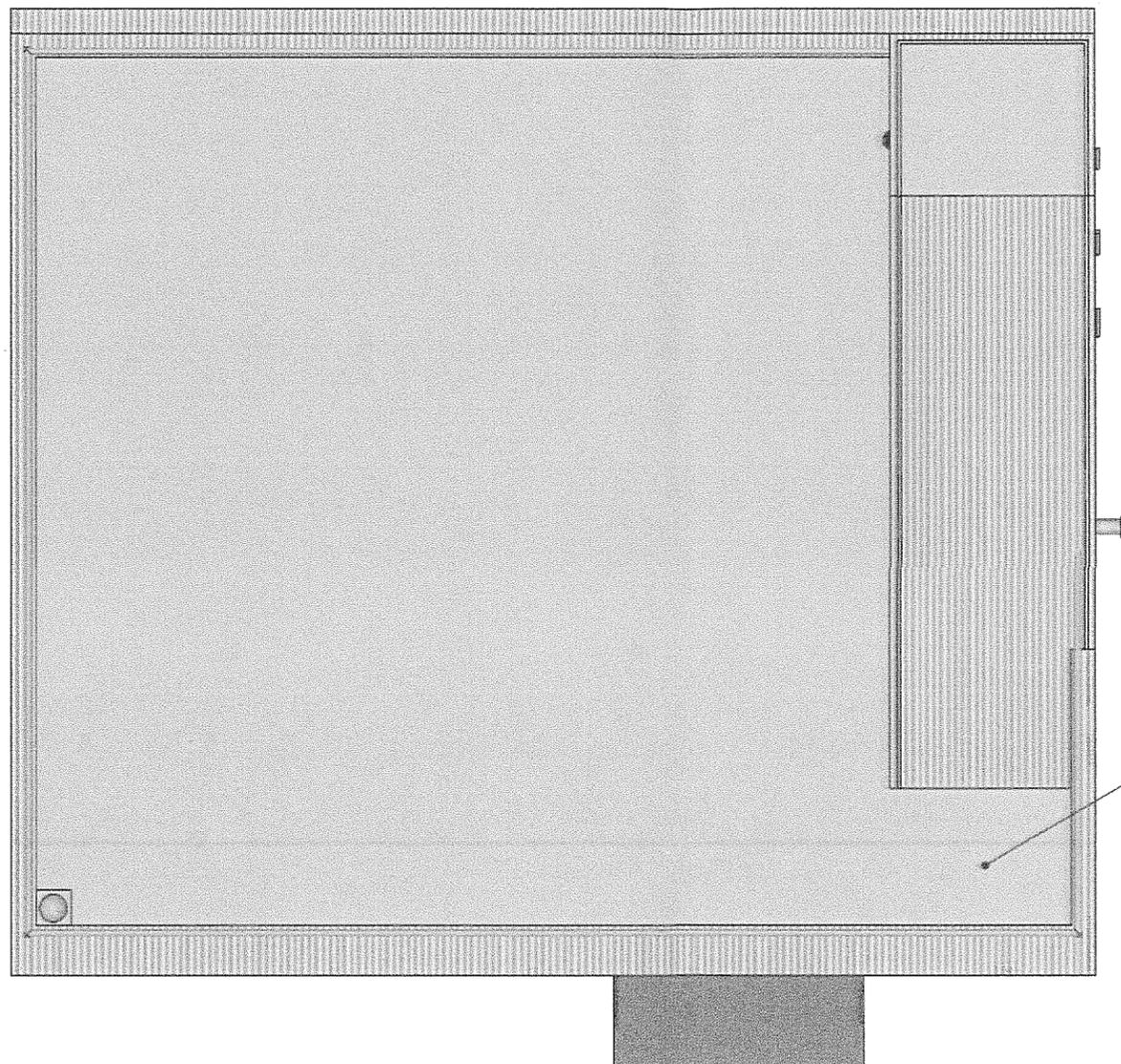
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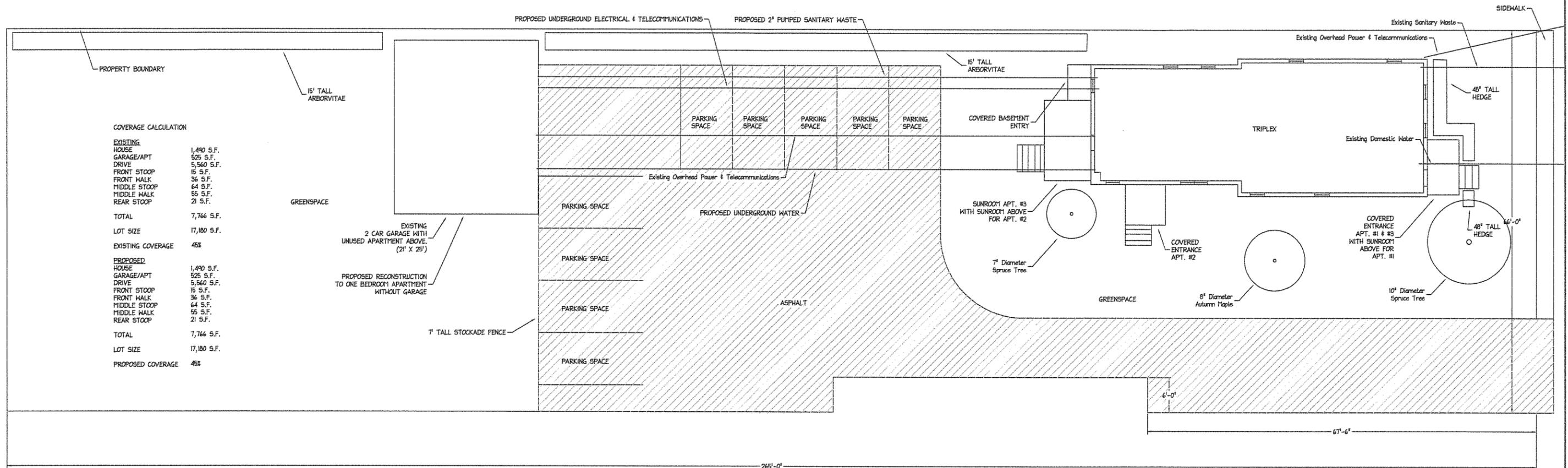
Outdoor Condensing Unit
Location

Scale: 1/4" = 1'

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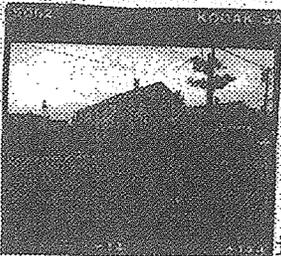


COVERAGE CALCULATION

EXISTING	
HOUSE	1,490 S.F.
GARAGE/APT	525 S.F.
DRIVE	5,560 S.F.
FRONT STOOP	15 S.F.
FRONT WALK	36 S.F.
MIDDLE STOOP	64 S.F.
MIDDLE WALK	55 S.F.
REAR STOOP	21 S.F.
TOTAL	7,766 S.F.
LOT SIZE	17,180 S.F.
EXISTING COVERAGE	45%
PROPOSED	
HOUSE	1,490 S.F.
GARAGE/APT	525 S.F.
DRIVE	5,560 S.F.
FRONT STOOP	15 S.F.
FRONT WALK	36 S.F.
MIDDLE STOOP	64 S.F.
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REAR STOOP	21 S.F.
TOTAL	7,766 S.F.
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PROPOSED COVERAGE	45%

 P.O. BOX 65178 BURLINGTON, VT 05406-5178 TEL: (802) 855-1753 FAX: (802) 855-7828		PROJECT TITLE 91 NORTH WINOOSKI AVE. BURLINGTON, VT 05401	SCALE: 1/8" = 1' PROJECT NO. 91-NW DATE: 4/12/2013 DRAWN: W.N. APPROVED: W.N.	SHEET NO. <h2>S1</h2>																																																	
	SHEET TITLE <h3>SITE PLAN</h3>																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 15%;">REVISION</th> <th style="width: 10%;">DESIGNED</th> <th style="width: 10%;">DRAWN</th> <th style="width: 10%;">CHECKED</th> <th style="width: 10%;">APPROVED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					NO.	DATE	REVISION	DESIGNED	DRAWN	CHECKED	APPROVED																																										
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STATE OF VERMONT
 Office for Historic Preservation
 Montpelier, VT 05602

HISTORIC SITES & STRUCTURES SURVEY
 Individual Structure Survey Form

SURVEY NUMBER:
 NEGATIVE FILE NUMBER:
 UTM REFERENCES: 78-A-121
 Zone/Easting/Northing
 U.S.G.S. QUAD. MAP:
 PRESENT FORMAL NAME:
 ORIGINAL FORMAL NAME:
 PRESENT USE: apartment & prof. office
 ORIGINAL USE: residence
 ARCHITECT/ENGINEER:
 BUILDER/CONTRACTOR:
 PHYSICAL CONDITION OF STRUCTURE:
 Excellent Good
 Fair Poor
 STYLE: Greek Revival
 DATE BUILT: c. 1850

COUNTY: Chittenden
 TOWN: Burlington
 LOCATION:
 91 North Winooski
 COMMON NAME:
 FUNCTIONAL TYPE: dwelling
 OWNER: J. Edward Marceau D. D. S.
 ADDRESS: 1545 Hinesburg Rd., S. Burl.
 Benoit P. Trottier D. D. S. 120 Crescent
 ACCESSIBILITY TO PUBLIC:
 Yes No Restricted
 LEVEL OF SIGNIFICANCE:
 Local State National
 GENERAL DESCRIPTION:

Structural System
 1. Foundation: Stone Brick Concrete Concrete Block
 2. Wall Structure
 a. Wood Frame: Post & Beam Balloon
 b. Load Bearing Masonry: Brick Stone Concrete
 Concrete Block
 c. Iron d. Steel e. Other:
 3. Wall Covering: Clapboard Board & Batten Wood Shingle
 Shiplap Novelty Asbestos Shingle Sheet Metal
 Aluminum Asphalt Shingle Brick Veneer Stone Veneer
 Bonding Pattern: Brick Other:
 4. Roof Structure
 a. Truss: Wood Iron Steel Concrete
 b. Other:
 5. Roof Covering: Slate Wood Shingle Asphalt Shingle
 Sheet Metal Built Up Rolled Tile Other:
 6. Engineering Structure:
 7. Other:
 Appendages: Porches Towers Cupolas Dormers Chimneys
 Sheds Ells Wings Bay Window Other:
 Roof Style: Gable Hip Shed Flat Mansard Gambrel
 Jerkinhead Saw Tooth With Monitor With Bellcast
 With Parapet With False Front Other:
 Number of Stories: 2 1/2
 Number of Bays:
 Approximate Dimensions: 20 x 80
 Entrance Location:

THREAT TO STRUCTURE:
 No Threat Zoning Roads
 Development Deterioration
 Alteration Other:

LOCAL ATTITUDES:
 Positive Negative
 Mixed Other:

ADDITIONAL ARCHITECTURAL OR STRUCTURAL DESCRIPTION:

Massing - Gable front orientation 3 bay wide. Lower ell on rear. Cornice returns, boxed cornice. 2 story entrance porch, closed on second story.
Fenestration - 6/1, 4/1 sash. Flat arches. Triangular gable window.
Entrance - Left. Sidelights though original have been removed along with door. 1 x 1 bay entrance porch terminates in pedimented gable. Square columns.

RELATED STRUCTURES: (Describe)

Flat roofed barn in rear.

STATEMENT OF SIGNIFICANCE:

A common, Burlington, Greek Revival house type dating from the early development of North Winooski Avenue. The three bay, side hall entrance, 2 1/2 story facade with gable window is similar to others found in Burlington.

The first known resident was Leir Edgell, an auctioneer and commission merchant in the Leavenworth Block on College St., who lived here from before 1865 to the mid 1870's. He sold the house to Mrs. Mary Brady, a widow who had sold the family farm when her husband died and moved to Burlington. She and her grown children all lived here until 1905. This older and relatively simple house still maintains the solid, middle-class character of the neighborhood.

REFERENCES:

1853, 1869, 1890, Sanborn maps; directories.

MAP: (Indicate North in Circle)



SURROUNDING ENVIRONMENT:

Open Land Woodland
Scattered Buildings
Moderately Built Up
Densely Built Up
Residential Commercial
Agricultural Industrial
Roadside Strip Development
Other:

RECORDED BY:
C. Richard Morsbach

ORGANIZATION:
VT. Div. for Historic Preservation

DATE RECORDED:
6/8/78



[Home](#) > [Building Professionals](#) > [Product Specs](#) > [Double Hung](#)

Product Specs

The Product Selector is your quick-search home for complete specifications, installation instructions and product resources for all Integrity Ultrex fiberglass products. Use the drop-down menus below to narrow your search.

1. Select Product Type

Window ▼

2. Select Product Series

Wood-Ultrex ▼

3. Select Product

Double Hung ▼

Or

[View Entire Product Resource Library](#)



Wood-Ultrex

Double Hung Window

Integrity Wood-Ultrex Double Hung windows offer a traditional appearance for a wide range of applications. Factory mulling and field mulling kits are available to create almost any assembly you desire. A minimum design pressure rating of DP40 can be increased to DP50 with an available, easy-to-install field-applied wood sill liner kit.

- Low-maintenance Ultrex exterior; rich pine interior
- 13.5" sloped sill provides superior water management
- 40DP rating/50DP with optional high performance kit
- Folding nail fin and all installation accessories included
- 10-year manufacturing warranty/20-year glass seal warranty
- LoE2 glass with argon gas standard
- LoE3-366 and tempered glass available
- Special sizing down to 1/64"

[Specifications](#)

[Installation Guides](#)

[Energy Ratings](#)

[Architectural Drawings
\(2D & 3D Symbols\)](#)

[Parts Manual](#)

Architectural Detail Manual (ADM)

Click a link below to download detailed product information, including sizes, features, design pressures, NFRC values, egress information, elevations and section details. Documents can be opened and viewed using Adobe Acrobat Reader.

- [Integrity Windows and Doors NFRC Values](#)
- [Integrity Wood-Ultrex and All Ultrex Accessories](#)
- [Integrity Wood-Ultrex Double Hung, Double Hung Picture and Double Hung Transom](#)
- [Product Performance and Information](#)

Construction Specifications

Click a link below to download customizable specification information for use in preparing project documentation and submittals. Documents can be opened and viewed using Microsoft Word or a text editor of your choice.

- [CSI for Double Hungs](#)



PDF's can be viewed using
[Adobe Acrobat Reader](#)

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DOUBLE HUNG

Operator Units

Mas. Opp. (mm)	1-0 (559)	2-2 (660)	2-6 (762)	2-8 (813)	2-10 (864)	3-0 (914)	3-2 (965)	3-6 (1067)
Rgh. Opp. (mm)	1-0 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-6 1/2 (1080)
Frame Size (mm)	1-9 1/2 (546)	2-11 1/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)	2-11 1/2 (902)	3-1 1/2 (953)	3-5 1/2 (1054)
Glass Size (mm)	16 3/4" (425)	20 3/4" (527)	24 3/4" (629)	26 3/4" (679)	28 3/4" (730)	30 3/4" (781)	32 3/4" (832)	36 3/4" (933)

3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908) 14 3/8" (375)								
3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010) 16 3/4" (425)								
3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111) 18 3/4" (476)								
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213) 20 3/4" (527)								
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314) 22 3/4" (578)								
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416) 24 3/4" (629)								
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518) 26 3/4" (679)								
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6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924) 34 3/4" (883)								

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The best value in....

Solid Wood Doors

...from



Interior Doors ▾	Exterior Doors ▾	Molding & Trim ▾	HOW TO BUY ▾	Factory Finishing	Hardware	Miscellaneous ▾
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EXTERIOR FRONT ENTRY WOOD DOORS WITH GLASS

Shown below are **Exterior Front Entry Wood Doors with Glass** that are specifically designed and manufactured by **Allegheny Wood Works** to contain a glass element in them.

Prices shown below are for 6/8 (80-inch tall) door slabs only (for 7/0 doors add \$75, for 8/0 doors add \$150). For pre-hung doors, go to the [Exterior Pre-hang](#) page and add that amount to the slab door price. Prices are for African Mahogany (Sapele mahogany = price x 1.15), Cypress, and White Oak Doors with clear insulated glass. Other obscure [glass options](#) are also available.

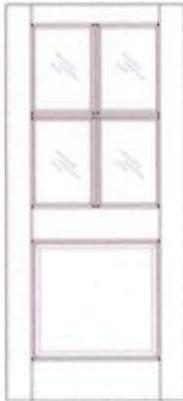
We specifically show pricing for the above listed species because of their natural anti-fungal, decay, and insect attributes that make them excellent choices for exterior applications. These same woods are used in other outdoor applications such as decking, windows, shingles, fencing, exterior trim, etc. for these same reasons.



[AWW901](#)
\$981



[AWW902](#)
\$981



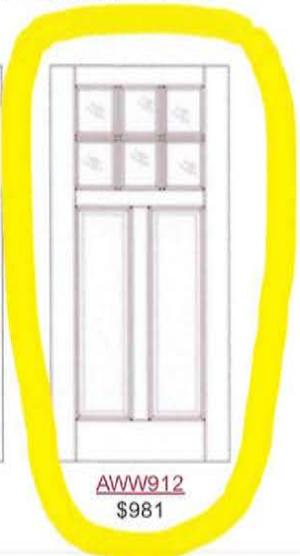
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\$1,135



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\$1,135



[AWW921](#)
\$1,135



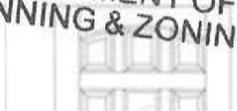
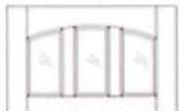
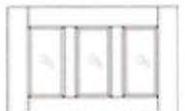
[AWW922](#)
\$981



[AWW925](#)
\$981



[AWW913](#)
\$981



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Home > Doors > Sliding French Door

Wood-Ultrex

Sliding French Door



Enjoy the elegance of a French Door even when space dictates the practicality of a sliding door. Wide stile-and-rail construction showcases the rich wood interior while Ultrex pultruded fiberglass provides a long-lasting, virtually maintenance-free exterior. Two- and three-panel configurations are available in a variety of sizes to create the look you desire.

Features

- Low-maintenance Ultrex exterior; rich pine interior
- Polycarbonate track and dual ball-bearing rollers for smooth operation
- 2- and 3-panel configurations up to 8-ft tall
- Tempered, insulated glass with argon gas

Related Links

- Product Specs
- Installation Guides
- Why Ultrex Fiberglass
- Energy Efficiency
- Care & Maintenance
- Download iPad/iPhone App

Project Showcase



When choosing a window that would be the focal point of their home, it was an easy decision. Integrity windows are probably the best quality/value window in the industry.

Gallery	Options	Sizes & Specs	Request Literature	Reviews
<p>Photos</p> <p>Videos</p> <p>Go to Gallery for all products ></p>			<p>PHOTO VIEWER</p> <p>Expand [+]</p>	

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DOUBLE HUNG

INTEGRITY FROM MARVIN®
WOOD-ULTREX™ SERIES

3 Wide and Operator Units

4 Wide Operator Units

Mas. Opp. (mm)	9-5 (2870)	7-2 1/2 (2197)	8-6 1/2 (2604)
Rgh. Opp. (mm)	9-5 1/2 (2883)	7-3 (2210)	8-7 (2616)
Frame Size (mm)	9-4 1/2 (2858)	7-2 (2184)	8-6 (2591)

3-0 (914) 3-0 1/4 (921) 3-0 3/4 (908)			
3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010)			
3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111)			
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)			
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314)			
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416)			
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)			
5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619)			
5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721)			
6-0 (1829) 6-0 1/4 (1835) 5-11 3/4 (1822)			
6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924)			

Details and Elevations not to scale.

Optional Double Hung Grilles, GBGs and SDLs are available in a standard Rectangular cut shown.

When ordering 6 9/16" (167 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.

■ = Available in Cottage Style with unequal sash. Cottage Style Glass size (min) 24 3/4" (629) x 24 1/2" (619)

* Cottage Style Glass size (min) 24 3/4" (629) x 24 1/2" (619)

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MULTIPLE ASSEMBLIES

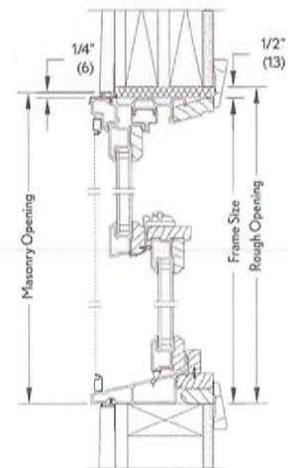
Multiple assemblies can be used for a window. **DEPARTMENT OF PLANNING & ZONING**
MAXIMUM ROUGH OPENING not to exceed 11' 0"
Maximum up to 5 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 8'4" x 9'2"
Maximum up to 3 units wide by 5 units high.

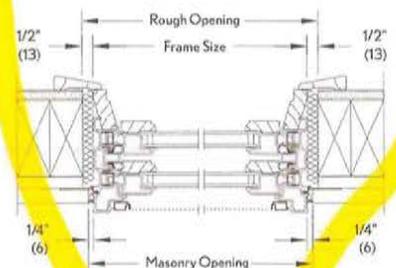
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Integrity from Marvin® representative for more information.

Construction Details



Operator Head Jamb and Sill



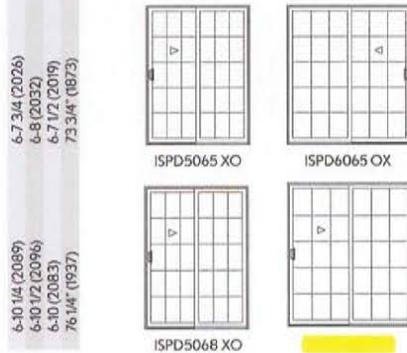
Operator Jamb

SLIDING PATIO DOOR

INTEGRITY FROM MARVIN®
WOOD-ULTREx™ SERIES

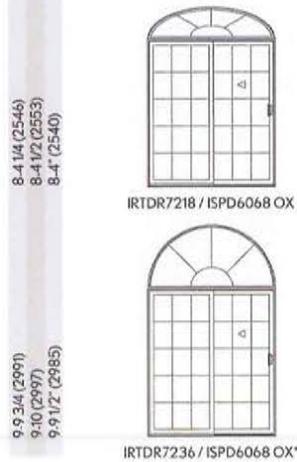
2 Panel Sliding Patio Doors

Mas. Opp. (mm)	4-11/2 (1511)	5-11/2 (1816)
Rgh. Opp. (mm)	5-0 (1524)	6-0 (1829)
Frame Size (mm)	4-11 (1499)	5-11 (1803)
Glass Size (mm)	26 1/4" (667)	32 1/4" (819)



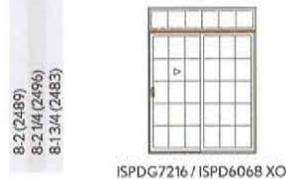
Round Top Over Sliding French Door

Mas. Opp. (mm)	5-11/2 (1816)
Rgh. Opp. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)



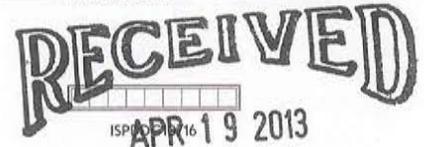
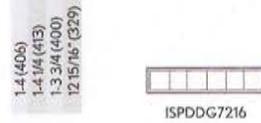
Direct Glaze Transom Over Sliding Patio Door

Mas. Opp. (mm)	5-11/2 (1816)
Rgh. Opp. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)



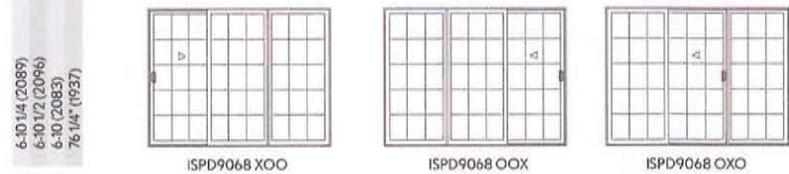
Sliding Patio Door Direct Glaze Transom

Mas. Opp. (mm)	5-11/2 (1816)	8-11 (2718)
Rgh. Opp. (mm)	6-0 (1829)	8-11/2 (2730)
Frame Size (mm)	5-11 (1803)	8-10 1/2 (2705)
Glass Size (mm)	68 3/16" (1732)	103 11/16" (2634)



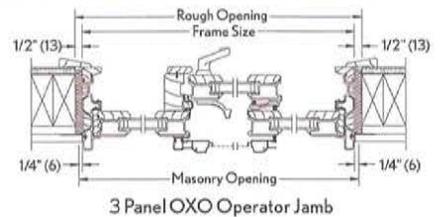
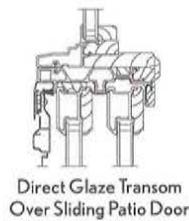
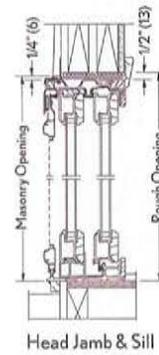
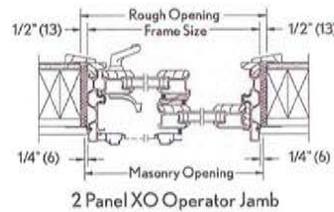
3 Panel Sliding Patio Doors

Mas. Opp. (mm)	8-11 (2718)	8-11 (2718)	8-11/2 (2730)
Rgh. Opp. (mm)	8-11 1/2 (2731)	8-11 1/2 (2731)	8-11 1/2 (2731)
Frame Size (mm)	8-10 1/2 (2705)	8-10 1/2 (2705)	8-10 1/2 (2705)
Glass Size (mm)	32 1/4" (819)	32 1/4" (819)	32 1/4" (819)



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Construction Details



Details and Elevations not to scale.

Optional Sliding Door Grilles, GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut shown.

XO operation shown, OX operation optional. When ordering 6 9/16" (167 mm) or 6 13/16" (173 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

Optional Direct Glaze transom Grilles, GBGs and SDLs are available in a standard Rectangular cut, as shown. Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in a standard cut, as shown. (Round Top divided lites not available in other lite cuts.)

* This product is only available field mullied.

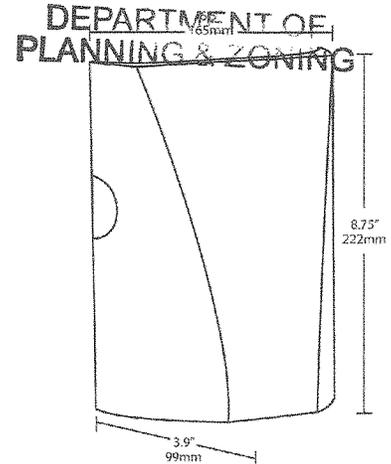
SLIM18Y

Available in 12, 18 and 26 Watt models, SLIM Wallpacks deliver ultra efficient LED technology in a compact design that's super easy to install as a downlight or uplight.

Color: Bronze

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Created: 04/15/2013

APR 19 2013
Weight: 4.5lb



LED Info

Watts: 18W
Color Temp: 3000K (Warm)
Color Accuracy: 82
L70 Lifespan: 100000
LM79 Lumens: 1,423
Efficacy: 67 LPW

Driver Info

Type: Constant Current
120V: 0.18A
208V: 0.11A
240V: 0.09A
277V: 0.08A
Input Watts: 21W
Efficiency: 85%

Technical Specifications

UL Listing:

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground

IP Rating:

Ingress Protection rating of IP66 for dust and water

LED:

Multi-chip, long-life LED

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Driver:

Constant Current, Class 2, 100-277V, 50/60 Hz., 4KV surge protection, 500mA, 100-240VAC 0.3-0.15 Amps, 277VAC 0.15 Amps, THD<20%, Power Factor 99%

Input Watts:

21W

Output Lumens:

1,423

Color Accuracy (CRI):

82 CRI

Correlated Color Temp. (Nominal CCT):

3000K

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures

Thermal Management:

Superior heat sinking with internal Air-Flow fins

Housing:

Precision die-cast aluminum housing

Mounting:

Heavy-duty mounting bracket with hinged housing for easy installation

Recommended Mounting Height:

Up to 14 ft.

HID Replacement Range:

The SLIM18 can be used to replace 100W MH based on delivered lumens

Lens:

Tempered glass lens

Reflector:

Specular thermoplastic

Gaskets:

High-temperature silicone

Finish:

Chip and fade resistant polyester powder coat finish

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

Color Stability:

RAB LED performance exceeds industry standards for chromatic stability

RAB
LIGHTING

Tech Help Line: 888 RAB-1000

Email: sales@rabweb.com

On the web at: www.rabweb.com

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Note: Specifications are subject to change without notice

Page 1 of 2

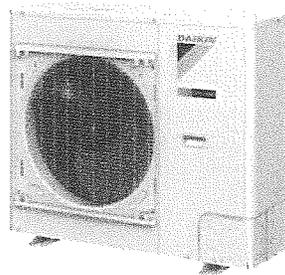
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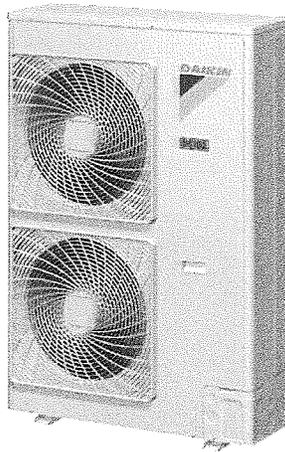
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1.2 Outdoor unit

RZR18PVJU / RZR24PVJU / RZR30PVJU
RZQ18PVJU9 / RZQ24PVJU9 / RZQ30PVJU



RZR36PVJU / RZR42PVJU
RZQ36PVJU9 / RZQ42PVJU9

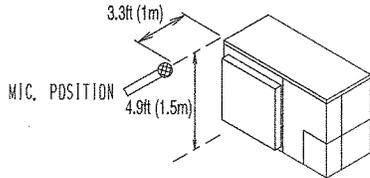


12.2 Outdoor unit

12.2.1 Overall

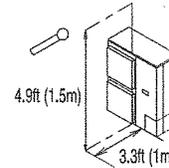
Location of microphone

RZQ18PVJU9 / RZQ24PVJU9 / RZQ30PVJU
RZR18PVJU / RZR24PVJU / RZR30PVJU



Location of microphone

RZQ36PVJU9 / RZQ42PVJU9
RZR36PVJU / RZR42PVJU



dB(A)

Model (Heat pump)	208/230V, 60Hz	Model (Cooling only)	208/230V, 60Hz
RZQ18PVJU9	49	RZR18PVJU	49
RZQ24PVJU9	49	RZR24PVJU	49
RZQ30PVJU	49	RZR30PVJU	49
RZQ36PVJU9	58	RZR36PVJU	58
RZQ42PVJU9	58	RZR42PVJU	58

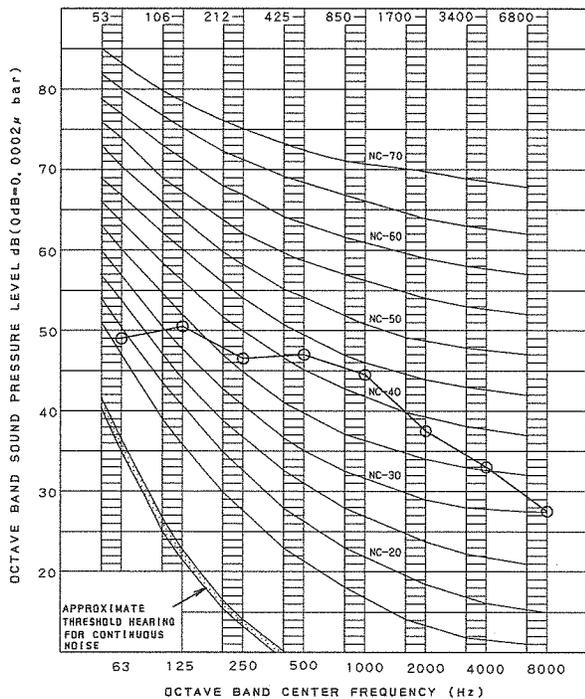
Notes:

1. The operation conditions are assumed to be standard (JIS conditions). Power source 208/230V, 60Hz.
2. The operation values were obtained in an anechoic chamber (conversion values).
3. Sound levels will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipment is installed.

12.2.2 Octave Band Level

○ — ○ 208/230V, 60Hz

RZQ18PVJU9 / RZQ24PVJU9 / RZQ30PVJU
RZR18PVJU / RZR24PVJU / RZR30PVJU



RZQ36PVJU9
RZR36PVJU

