



HDC-24-45

Historic District

Certificate of

Appropriateness

Status: Active

Submitted On: 12/17/2024

Primary Location

402 HILLSBOROUGH ST

CHAPEL HILL, NC 27514

Owner

ROSE DAVID E

402 HILLSBOROUGH ST

CHAPEL HILL, NC 27514

Applicant

Keely Muscatell

916-495-7661

keelymuscatell@gmail.com

402 Hillsborough Street
Chapel Hill, NC 27514

Certificate of Appropriateness Form

Historic District

Franklin-Rosemary

Application Type Check all that apply

Minor Work is exterior work that does not involve any substantial alterations, and do not involve additions or removals that could impair the integrity of the property and/or the district as a whole. See Chapel Hill Historic Districts Design Principles & Standards (“Principles & Standards”) (p. 9-11) for a list of minor works. Please contact Town Staff to confirm if you believe the project is classified as “minor work.”

Historic District Commission Review includes all exterior changes to structures and features other than minor works

Maintenance or Repair Work

Minor Work (Defined by Design Standards)

Historic District Commission Review

COA Amendment

Written Description

Describe clearly and in detail the physical changes you are proposing to make. Identify the materials to be used (siding, windows, trim, roofing, pavements, decking, fencing, light fixtures, etc.), specify their dimensions, and provide names of manufacturers, model numbers, and specifications where applicable. Consider including additional materials to illustrate your project, such as: - Photos and specifications for proposed exterior materials such as siding, trim, roof, foundation materials, windows, etc. - Renderings of the proposed work - Spec sheets

This project will involve demolishing an existing wood deck on the back of the house, and adding a screened-in porch (13 feet by 15 feet, or approx 195 square feet), constructed of premium-treated lumber. The project will include stairs to the back yard on one side of the porch (stoop approx 16 square feet), and a small grilling deck (13 feet by 6 feet, or approx 76 square feet) off the opposite side. All finishes will match the house and are compatible with the architectural style and surrounding neighborhood homes in the Franklin-Rosemary Historic District, the majority of which also have screened porches. The entirety of the project will take place behind the house and none of it will be visible from the street.

Is this application for after-the-fact work?*

No

Is this applicaiton a request for review after a previous denial?*

No

Applicable HDC Design Standards

Page / Standard #

4.10.1

Topic

4. New Construction

Brief Description of the Applicable Aspects of Your Proposal

Deck will be located on the rear of the house and will not be visible at all from public view from the street.

Page / Standard #

4.10.4

Topic

4. New Construction

Brief Description of the Applicable Aspects of Your Proposal

New porch will replace an existing wood deck that is much larger than the new porch will be, this limiting its size and scale and visual impact.

Page / Standard #

4.10.5

Topic

4. New Construction

Brief Description of the Applicable Aspects of Your Proposal

Porch will be aligned with home's first floor.

Page / Standard #**Topic**

4.10.7

4. New Construction

Brief Description of the Applicable Aspects of Your Proposal

Porch, stoop, and grilling deck will be constructed of wood.

Page / Standard #**Topic**

4.10.8

4. New Construction

Brief Description of the Applicable Aspects of Your Proposal

Porch will be attached to rear of home but is self-supported to a live load of 60 lbs per square foot.

Page / Standard #**Topic**

4.10.9

4. New Construction

Brief Description of the Applicable Aspects of Your Proposal


Lattice will be used between the stoop and the porch, and foundation plantings will cover the space between the ground and the porch floor.

Property Owner Information




Property Owner Name

David Rose

Property Owner Signature

 David Emile Vatcher Rose
 Dec 16, 2024

Timeline

Label	Activated	Completed	Assignee	Due Date	Status
 COA Completeness Check	12/17/2024, 12:08:59 PM	12/17/2024, 2:11:05 PM	Anya Grah- Federmack	-	Completed
 COA Fee	12/17/2024, 2:11:05 PM	12/17/2024, 2:47:20 PM	Keely Muscatell	-	Completed
 COA Approval Review	12/17/2024, 2:47:21 PM	-	Anya Grah- Federmack	-	Active

Orange County North Carolina

272748
402 HILLSBOROUGH ST

JANUARY 1ST OWNER MAILING ADDRESS
ROSE DAVID E, MUSCATELL KEELY A
402 HILLSBOROUGH ST
CHAPEL HILL NC 27514

Total Assessed Value
\$634,100

KEY INFORMATION

Tax Year	2024		
Parcel ID	9788590112	Township	7 - CHAPEL HILL
Land Size	0.27	Land Units	AC
Rate Code	22		
District Codes	G0 County, G2 Chapel Hill, CH CHSchoolDst.		
Property LUC	Residential- Improved		
Neighborhood	7172 - 7FRANKRSMRY		
Legal Description	1 MASON P THOMAS III ETAL P33/166		
Exempt Type	-		

APPRAISAL DETAILS

Total Land	\$380,000
Ag Credit	-
Land	\$380,000
Building	\$250,400
Yard Items	\$3,700
Market Total	\$634,100
Total Assessed	\$634,100

RESIDENTIAL

BUILDING (1)					
Type	Single Fam	Total Value	\$250,400	Finished Sq Ft	2,740 sf
Style	-	Quality	Grade B+05	Condition	Average
Year Built	1922	Exterior Walls	Frame	Full Bath	2
Roof Cover	Shingle	Half Bath	0	HVAC	Combo H&A
Bedrooms	4	Garage Type	-		
Fireplace Count	1				

MISC IMPROVEMENTS

IMPROVEMENT TYPE	UNITS/SQ FT	EST YEAR BUILT	APPRAISED VALUE
Y030 - STG BLDG	192	1990	\$3,700

SALES

SALE DATE	SALE PRICE	DEED BOOK	DEED PAGE	INSTRUMENT TYPE	GRANTOR
05/19/2016	\$530,000	6124	127	-	BENSON
05/06/2004	\$552,500	3426	163	-	LAWSON
05/06/2004	\$552,500	3426	163	-	LAWSON ROBERT W
12/29/1993	\$150,000	1199	147	-	THOMAS
12/29/1993	\$150,000	1199	147	-	THOMAS PATRICIA R

YARD ITEMS

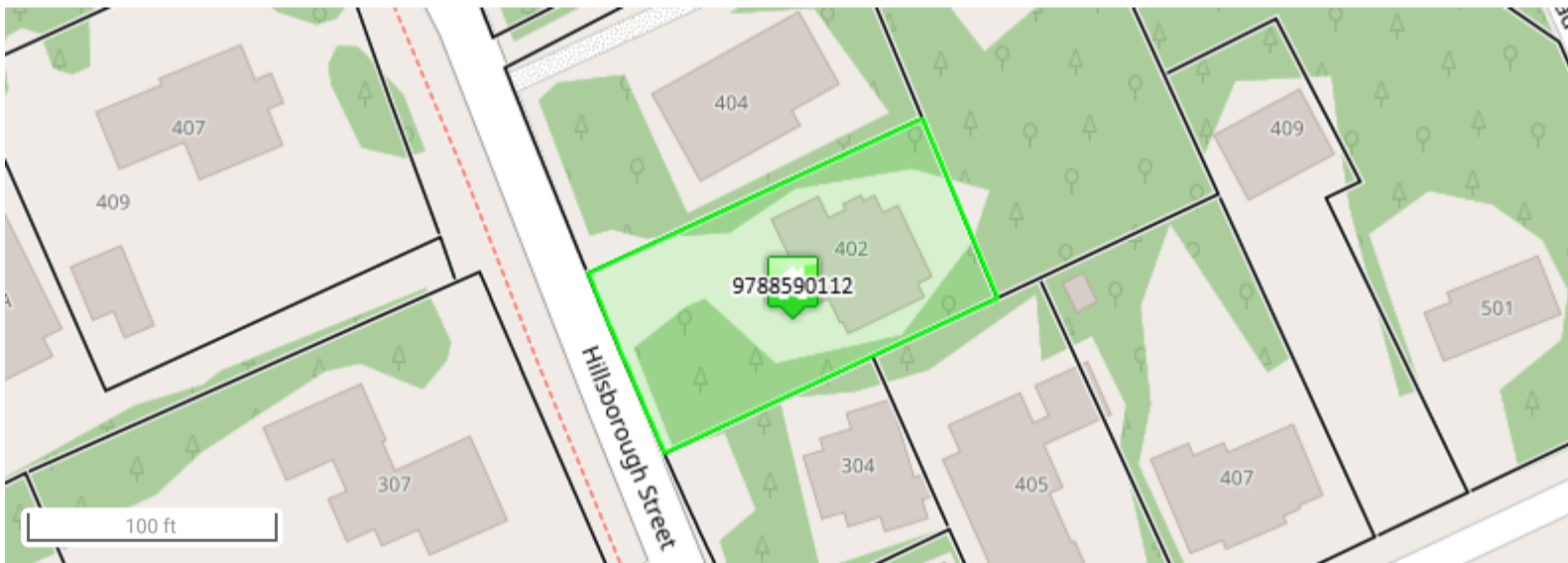
DESCRIPTION	TOTAL UNITS	YEAR BUILT	LENGTH	WIDTH	HEIGHT
No items to display					

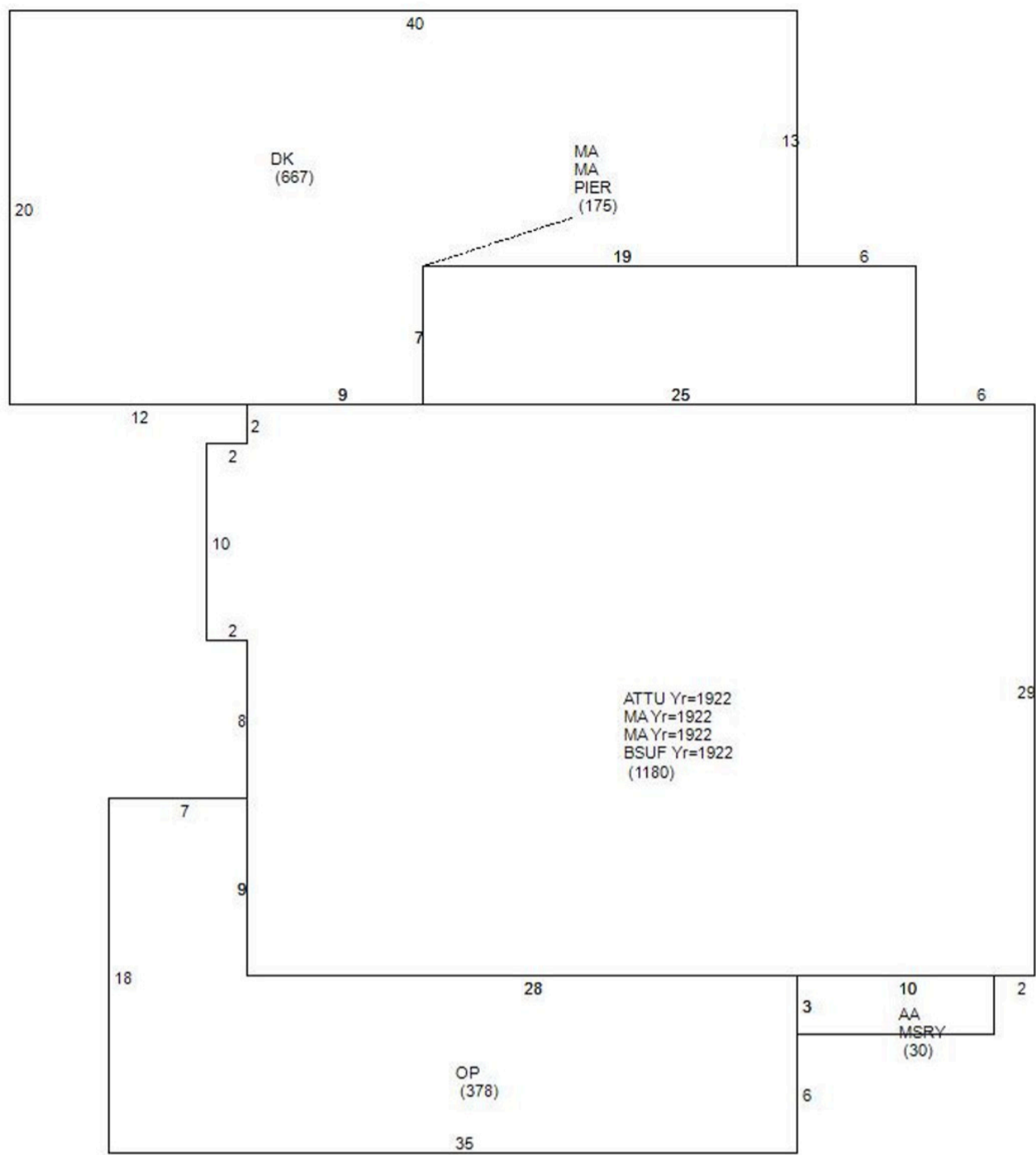
LAND

UNIT / SOIL TYPE	DESCRIPTION	USE CODE	ACRES / LOTS	VALUE
LOT	Lot	SITE	1.00	\$380,000

VALUE HISTORY

YEAR	TOTAL MARKET VALUE
2024	\$634,100
2023	\$634,100
2022	\$634,100
2021	\$634,100
2020	\$615,100
2019	\$615,100
2018	\$615,100
2017	\$615,100
2016	\$575,345
2015	\$575,345
2014	\$575,345





Disclaimer

Orange County Assessor's Office makes every effort to produce the most accurate information possible. **No warranties, expressed or implied, are provided for the data herein, its use or interpretation.**

United States Department of the Interior
National Park Service

National Register of Historic Places Continuation Sheet

Section number 7 Page 122

Chapel Hill Historic District Boundary Increase and
Additional Documentation
Orange County, North Carolina

307 Hillsborough – Ward-Kyser House – c. 1840, c. 1995

NC – Building

Among the town's earliest residences, the house was constructed about 1840 as a one-story, side-gabled house with a gabled ell at the right rear (northwest). However, it has been significantly altered with the replacement of much original material and the construction of a large addition at the right (north) and rear of the house. The house has replacement weatherboards, six-over-six wood-sash windows, six-over-nine windows on the façade, and two interior stuccoed brick chimneys. The replacement fifteen-light French front door has four-light sidelights on beadboarded panels. It is sheltered by a near-full-width, hip-roofed porch supported by square columns. There is a shed-roofed wing at the left rear (southwest) and the double-pile, gabled rear ell has a shed-roofed porch on its left (south) elevation. The porch has a metal roof and has been enclosed with four-light casement windows. The house has been enlarged since 1992 with the construction of a gabled screened porch at the rear of the ell. A side-gabled hyphen extends from the right (north) elevation of the ell with a full basement and shed-roofed porch on the right elevation. From the hyphen extends a front-gabled wing with projecting bays in the front and rear gables.

The house was the 1920s-1930s residence of Edward Vernon Kyser, inventor of note and professor of pharmacology at UNC. A small, dirt-floored room in the basement is rumored to have been a part of the Underground Railroad. County tax records date the building to 1852 and the house appears on the 1915 Sanborn map, the earliest map to record this part of Hillsborough Street.

C-Building – Shed, c. 1900 – Front-gabled, frame shed with plain weatherboards, a four-light window on the east elevation, and a partially enclosed shed-roofed bay on the west elevation.

402 Hillsborough – House – c. 1922

C – Building

This two-story, side-gabled, Colonial Revival-style house is three bays wide and double-pile with plain weatherboards, six-over-one wood-sash windows, a wide fascia, partial cornice returns, and an exterior brick chimney on the left (north) elevation. The house has a six-panel door with five-light sidelights centered on the façade. It is sheltered by a two-bay-wide, hip-roofed porch with replacement porch posts and railings that wraps around the left elevation. On the right (south) end of the façade, a one-story, canted bay projects under a gabled roof; windows on the bay are separated by wood pilasters. There is a two-story projecting bay on the left elevation and the house has boxed eaves and a single window in each gable. County tax records date the building to 1922 and the house appears on the 1925 Sanborn map.

NC-Building – Garage, c. 1980 – Front-gabled, frame garage with weatherboards and exposed trusses and screening the gables.

404 Hillsborough – House – 2000

NC – Building

Recently constructed, this two-story, front-gabled house fits the general scale of the neighborhood. It is four bays wide and double-pile with plain weatherboards, two-over-one wood-sash windows, and an exterior brick chimney on the left (north) elevation. A one-light-over-two-panel door on the right (south) end of the façade is located in a projecting square bay and has one-light-over-one-panel

402 Hillsborough Street

HOUSE

c. 1922

This two-story, side-gabled, Colonial Revival-style house is three bays wide and double-pile with plain weatherboards, six-over-one wood-sash windows, a wide fascia, partial cornice returns, and an exterior brick chimney on the left (north) elevation. The house has a six-panel door with five-light sidelights centered on the façade. It is sheltered by a two-bay-wide, hip-roofed porch with replacement porch posts and railings that wraps around the left elevation. On the right (south) end of the façade, a one-story, canted bay projects under a gabled roof; windows on the bay are separated by wood pilasters. There is a two-story projecting bay on the left elevation and the house has boxed eaves and a single window in each gable. County tax records date the building to 1922 and the house appears on the 1925 Sanborn map.

In the 2015 survey, this was deemed a Contributing Building.

GARAGE

c. 1980

Front-gabled, frame garage with weatherboards and exposed trusses and screening the gables. In the 2015 survey, this was deemed a Noncontributing Building.

SOURCE: Heather Wagner Slane, National Register of Historic Places
Nomination: Chapel Hill Historic District Boundary Increase and Additional Documentation, Orange County, OR1750 (Raleigh, NC: North Carolina State

Historic Preservation Office, 2015), courtesy of the North Carolina State Historic Preservation Office.

According to Orange County property data as of 2021:

Plot size: 0.27 acres

Building size: 2,740 sq. ft.

Ratio: Building/Plot: 0.233

For link to this information: <https://property.spatalest.com/nc/orange/#/property/9788590112>

For link to 1925-1959 Sanborn maps and map data for this property:

<https://unc.maps.arcgis.com/apps/webappviewer/index.html?id=711a3b4017eb48c0acffc90cf2472f57&level=8¢er=-79.0503,35.91840>

Cite this Page:

“402 Hillsborough Street,” *Historic Chapel Hill*, accessed December 16, 2024, <https://www.historicchapelhill.org/items/show/1739>.

Published on Sep 14, 2020. Last updated on Jun 29, 2021.







402 Hillsborough Street Existing Structure



















Context,
Other Screened Porches in the
Neighborhood

401 North Street (two doors down from site)



217 Hillsborough Street



214 Hillsborough Street



211 Hillsborough Street



506 E Rosemary St



512 E Rosemary Street



525 E Rosemary St



517 North St.



523 North St.



403 North St.



514 E Rosemary St



project | specifications

Plan 4 - Screened Porch and Deck Addition

Project Description

- Demo existing deck and structure
- Build new screened porch structure and deck addition

Infrastructure

- Built to a live load of 60 pounds per square foot
- Deck columns – 6"x 6" premium treated timber
- Joists – spaced 16" on center using premium pressure treated southern yellow pine lumber

Decking and Trim

- Premium No.1-5/4"x 6" decking boards
- Top down fasteners (screws)
- Porch to be laid in a horizontal pattern
- Stoop and deck to be laid diagonally
- Premium solid-board skirting between porch and stairs

Deck & Stair Rail

- Archadeck Premium rail with black aluminum Deckorator balusters
- Rail posts- 4"x 4" premium pressure treated southern yellow pine

Stairs

- 48" Wide steps with (2) board treads
- Closed Riser

Roof

- Gable Roof with open gable end
- Enclosed rafters with plybead ceiling finish
- 5" Aluminum Gutters with downspouts
- Dimensional shingles to match home
- Two 2'x4' skylights

Walls

- 6"x 6" premium pressure treated porch columns
- ScreenEze aluminum frames with rolled fiberglass screening
- Premium porch rail with black aluminum Deckorator balusters
- PCA Aluminum screen door
- Screen frames and door colored white (unless specified as other)

Electrical

- 1- ceiling fan (fixture to be supplied by homeowner)

Archadeck Difference

More than 130,000 projects built nationwide.

Needs assessment and site survey ensures we meet your functional, aesthetic and budgetary needs.

Professional drafting and design help you visualize the finished project.

Creative design solutions that meet or exceed your expectations.

Job Progress Methodology (JPM) ensures nothing is left to chance.

Experienced, skilled and polite carpenters.

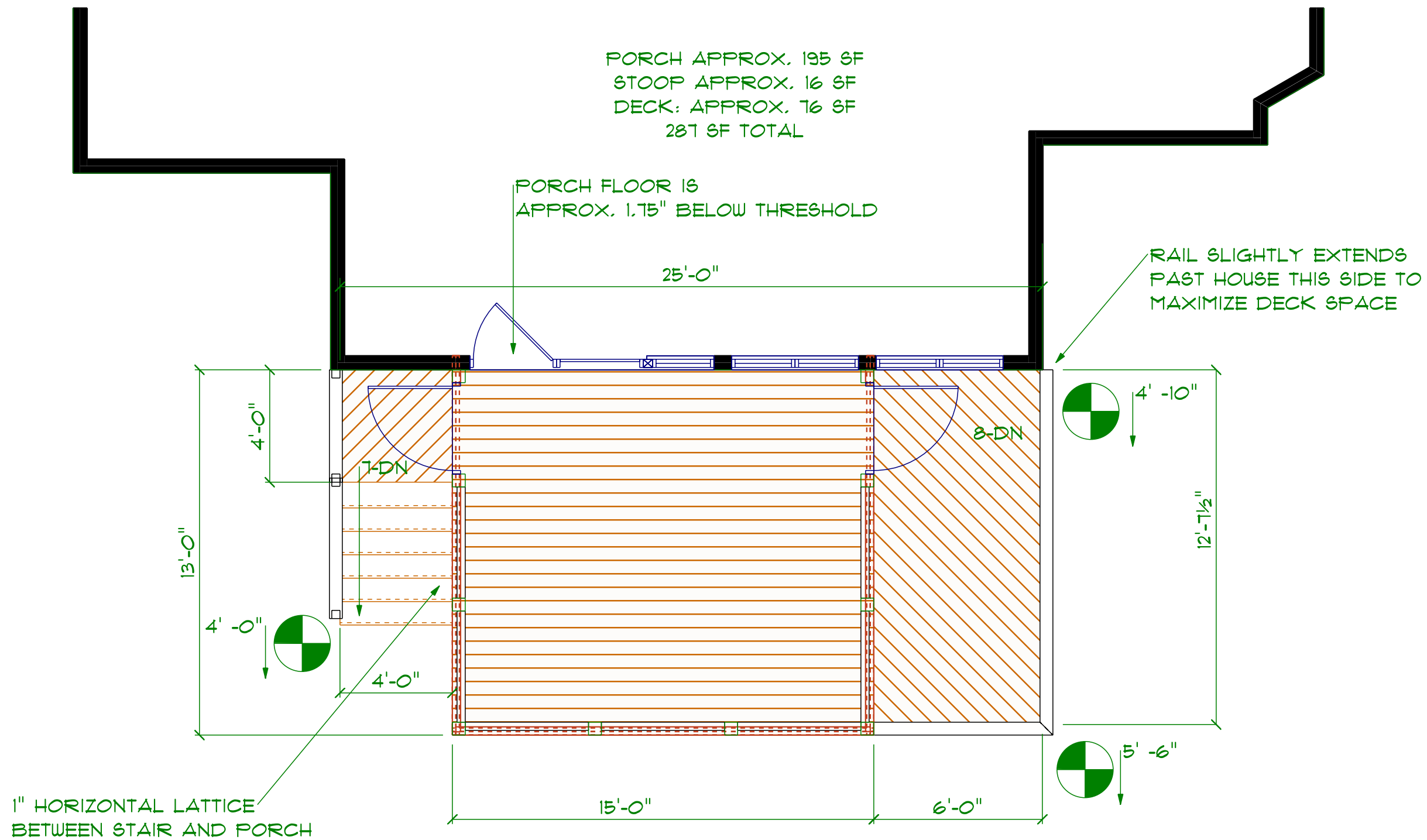
Standards meet or exceed all local building codes.

Warranty: 1 year on workmanship, 5 years on infrastructure.

Consistently ranked one of the top national builders in the industry by Qualified Remodeler magazine.

Excellent vendor relations due to our combined buying power.

Guaranteed by National Guarantee Corporation.



archadeck® | outdoor living
 Better Building by Design

PROJECT PROPOSAL

Plan View

SCALE = 1/4"

Approved By: *KM*
 Purchaser

NB
 Rep

Prepared by
 Archadeck of Raleigh-Durham
 7230 ACC Blvd, Suite #100
 Raleigh, NC 27617
 919-973-1523

Unauthorized duplication
 is prohibited

#Q-2476-4

09/13/24

MUSCATELL, KEELY & DAVE
 402 HILLSBOROUGH ST.
 CHAPEL HILL, NC 27514

PORCH APPROX. 195 SF
STOOP APPROX. 16 SF
DECK: APPROX. 76 SF
287 SF TOTAL

PORCH FLOOR IS
APPROX. 1.75" BELOW THRESHOLD

25'-0"

STOOP SITS APPROX.
4" FROM HOUSE WALL

approx. 26 ft
to property
line

4'-0"

13'-0"

4'-0"

4'-0"

1" HORIZONTAL LATTICE
BETWEEN STAIR AND PORCH

15'-0"

6'-0"

approx. 18 ft to property line

approx. 28 ft to property line

12'-7 1/2"

4'-10"

5'-6"

8-DN

7-DN

PROJECT PROPOSAL

Plan View

SCALE = 1/4"

KM

Approved By:

RB

Purchaser

Rep

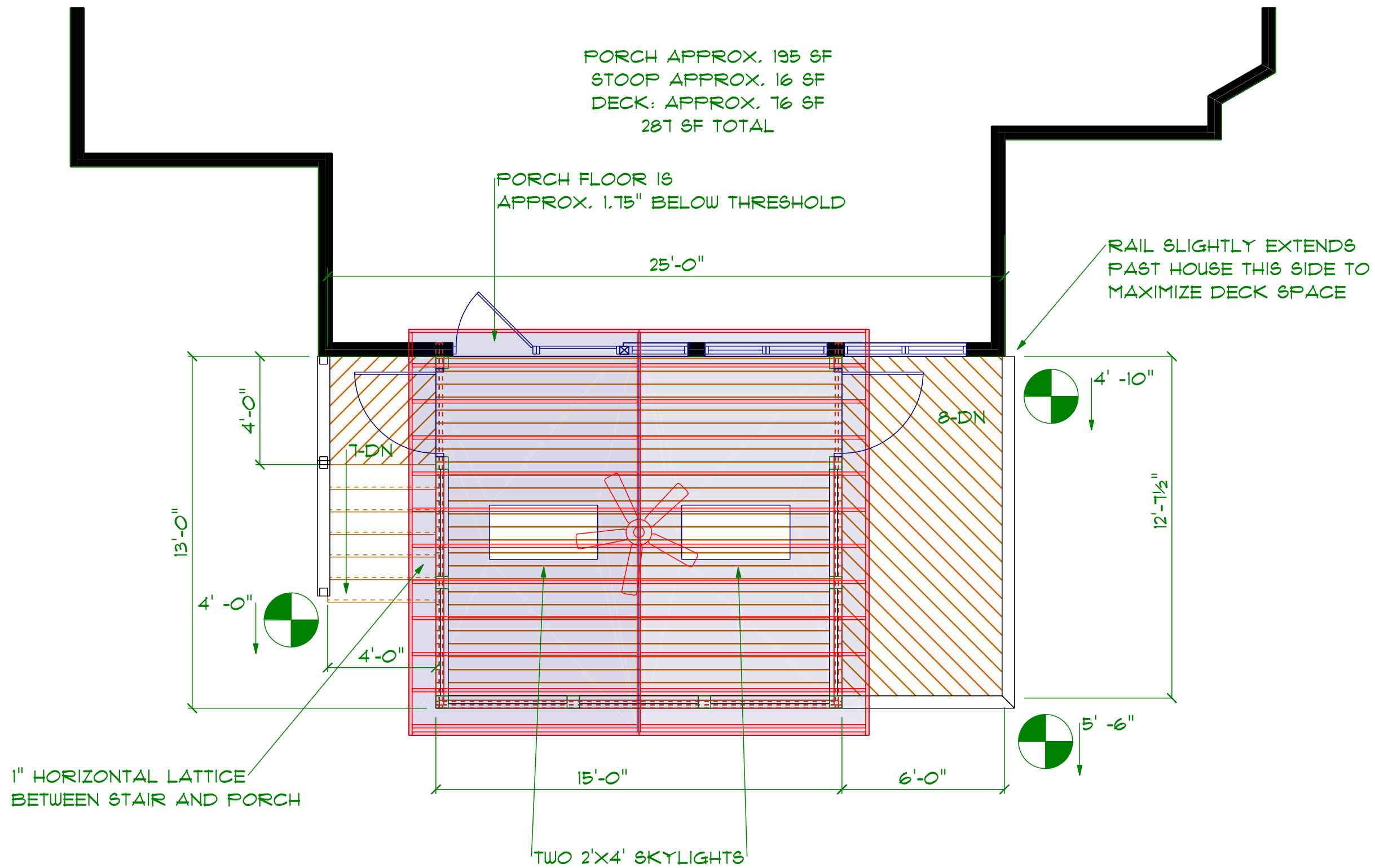
Prepared by
Archadeck of Raleigh-Durham
7230 ACC Blvd, Suite #100
Raleigh, NC 27617
919-973-1523

Unauthorized duplication
is prohibited

#Q-2476-4

09/13/24

MUSCATELL, KEELY & DAVE
402 HILLSBOROUGH ST.
CHAPEL HILL, NC 27514



archadeck® | outdoor living
 Better Building *by* Design

PROJECT PROPOSAL
 Plan View
 SCALE = 1/4"
 Approved By: *KM*
 Purchaser: *DN* Rep: *RB*

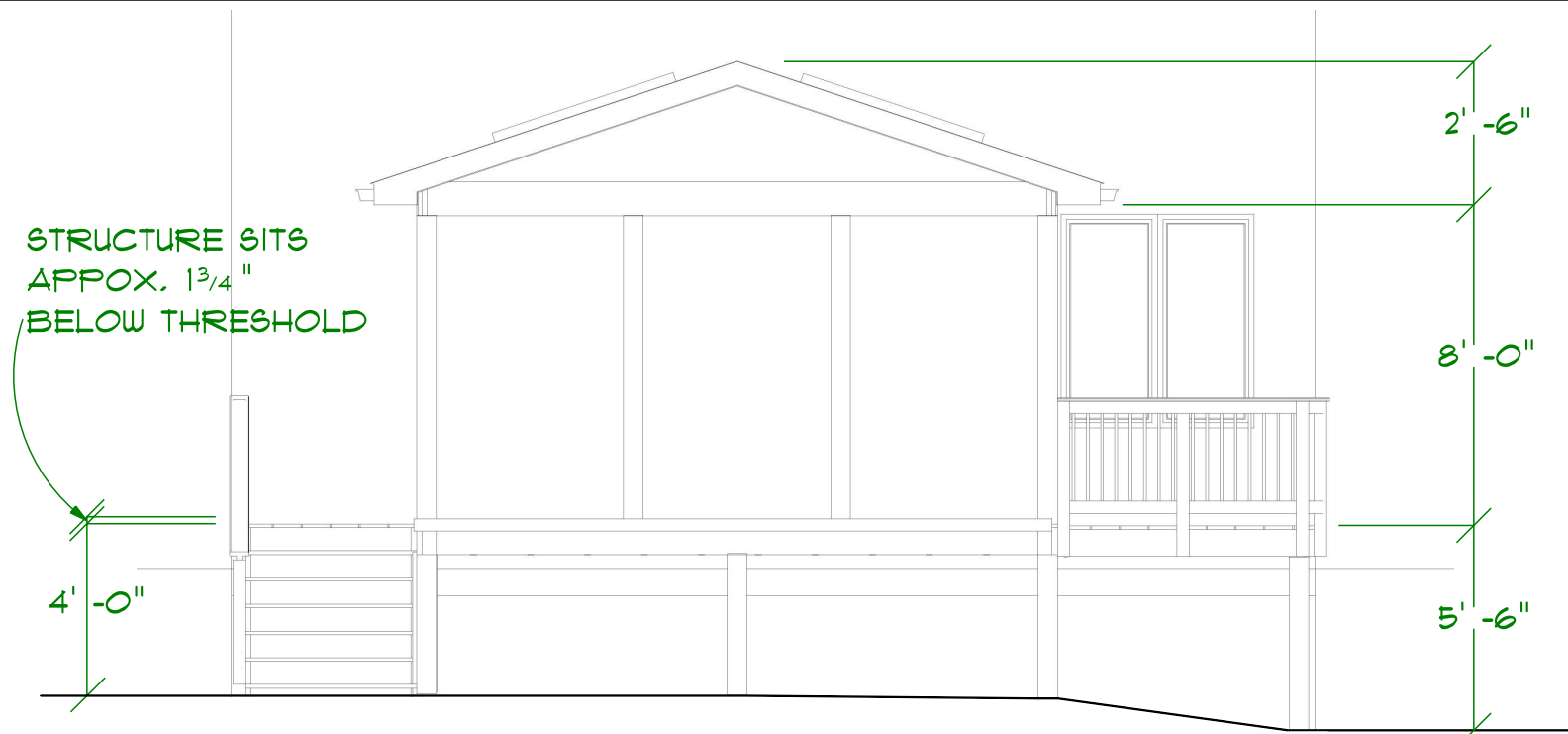
Prepared by
 Archadeck of Raleigh-Durham
 7230 ACC Blvd, Suite #100
 Raleigh, NC 27617
 919-973-1523
 Unauthorized duplication
 is prohibited

09/13/24 #Q-2476-4
 MUSCATELL, KEELY & DAVE
 402 HILLSBOROUGH ST.
 CHAPEL HILL, NC 27514

Porch Floor: Premium Pressure Treated No.1 Decking
 Porch Railing: Archadeck Rail-Deckorator Balusters
 Decking: Premium Pressure Treated No.1 Decking
 Deck Railing: Archadeck Rail-Deckorator Balusters
 Roof Type: Gable
 Ceiling Finish: Premium Stain-Grade Beadboard
 Wall Openings: Aluminum ScreenEze w/Fiberglass Screen
 Door: PCA Aluminum Screen Door (A-110)
 Electrical: Ceiling Fan, Flood Light, 2 Recepticles
 Skylights: (2) Velux 2'x4' Fixed
 Shingles: Architectural Grade to Match Home
 Porch: Approx. 195 SF
 Stoop: Approx. 16 SF
 Deck: Approx. 76 SF
 Total SF: Approx. 287

Silt Fence to be Installed Around Work Area to Protect Against Site Damage

STRUCTURE SITS
 APPROX. 1³/₄"
 BELOW THRESHOLD



archadeck® | outdoor living

Better Building by Design

PROJECT PROPOSAL
 Elevation View
 NOT TO SCALE

Prepared by
 Archadeck of Raleigh-Durham
 7230 ACC Blvd, Suite #100
 Raleigh, NC 27617
 919-973-1523

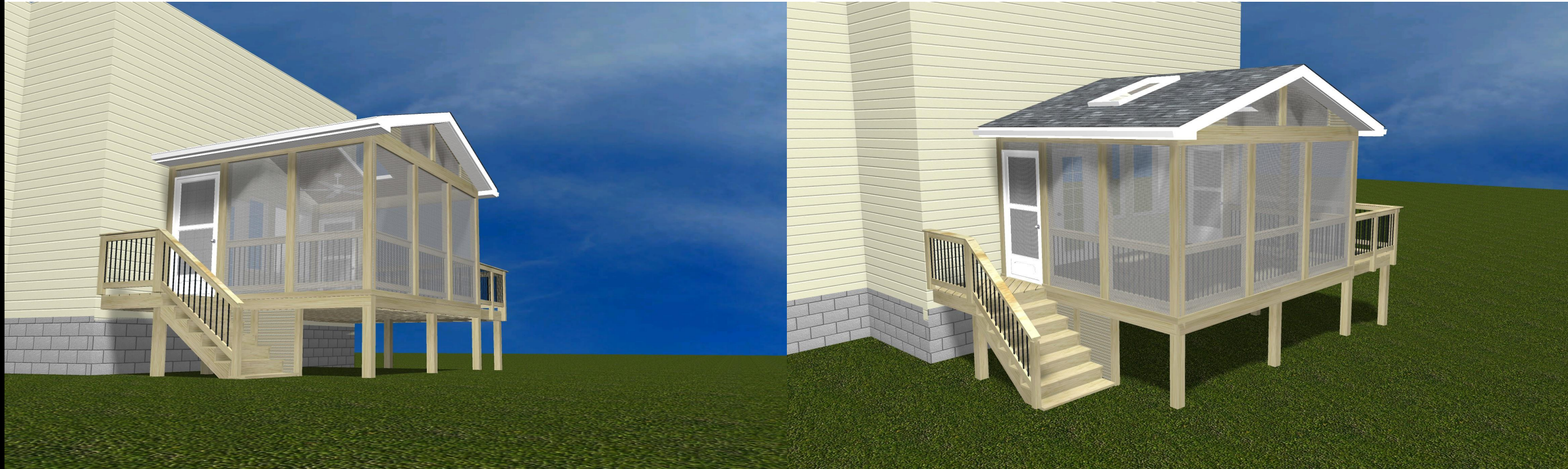
Unauthorized duplication is prohibited



#Q-2476-4

04/23/23

MUSCATELL, KEELY & DAVE
 402 HILLSBOROUGH ST.
 CHAPEL HILL, NC 27514



archadeck | outdoor living

Better Building *by* Design

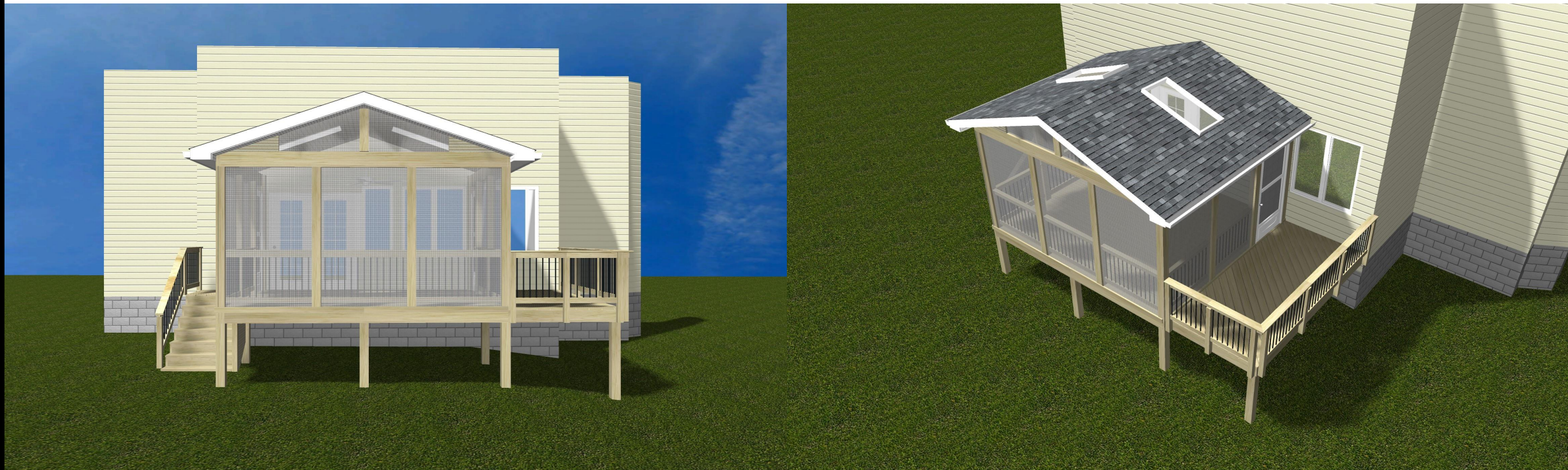
PROJECT PROPOSAL

3D VIEWS

ALL IMAGES ARE COMPOSITES AND DO NOT NECESSARILY REPRESENT THE EXACT FINAL BUILD. PLEASE REFER TO THE SCOPE OF WORK FORMS FOR SPECIFICS.

Prepared by
Archadeck of Raleigh-Durham
7230 ACC Blvd, Suite #100
Raleigh, NC 27617
919-973-1523

Unauthorized duplication
is prohibited



#Q-2476-4

04/23/23

MUSCATELL, KEELY & DAVE
402 HILLSBOROUGH ST.
CHAPEL HILL, NC 27514

SCOPE OF WORK CLARIFICATION FORM
DECK AND PORCH



CUSTOMER:

Keely Muscatell & Dave Rose

PROJECT TYPE:

SCREENED PORCH OPEN PORCH 3-SEASON ROOM SUNROOM
 DECK DECK EXTENSION RE-DECK

APPROX. SIZE (SQ FEET) Porch: 195 SF, Deck: 76 SF, Stoop: 16 SF, Total: 287 SF

DECK SURFACE DETAILS:

5/4" X 6" Premium No.1 pressure treated wood decking
 5/4" X 6" "Composite: T.T. AZEK OTHER: _____
Collection: _____ Color: _____

Other decking material: _____
Decking Pattern: Diagonal Horizontal
Parting Board Center Board Herringbone Pic.Frame
Composite Parting Board/Picture Frame- Selection _____
Deck Elevation Relative to Door Thresholds: Approx. 1.75" below threshold

Deck Trim
 Standard Wood 1"x4" Composite PVC
Type/Color: _____

DECKING FASTENERS:

Screws (standard on pressure treated)
 Hidden "clip" fasteners (Some locations and materials may only allow for traditional style screws)

FRAMING:

Joist Spacing - 16" on center (standard for diagonal decking, pressure treated wood)
 Joist Spacing - 12" on center (standard for diagonal decking, composite decking) Main
 Main Deck Frame Support Post 6"x 6 Other: _____
 Freestanding - not tied to house
 Attached to house at houseband (may be changed due to site requirements)
 Additional spa support Future Roof Load Other: _____

RAILING:

None
Posts: Material/Manufacturer: 4"x4" Prem. PT No.1 Cap: n/a
Color: SYP
Top/Bottom Rail
Material/Manufacturer: 2"x4" Prem. PT No.1 Cap: 5/4"x6" Prem. PT. No.1
Color: SYP
Rail Infill/Balusters
Material/Manufacturer: Aluminum Deckorators Color: Black
Style: Round

STAIRS:

2-Board Tread 3-Board Treads

Stair Treads- Material: _____ Color: _____ Same as Deck

Stair Risers- Material: _____ Color: _____ Same as Deck

LOW VOLTAGE LIGHTING

Timbertech Transformer

Post Cap Lights: Style/Manuf. _____ Color: _____ Qty: _____

Riser Lights: Style/Manuf. _____ Color: _____ Qty: _____

Accent Lights: Style/Manuf. _____ Color: _____ Qty: _____

Under Rail Lights: Style/Manuf. _____ Color: _____ Qty: _____

Other Light Option: _____

OTHER FEATURES

Benches: Trim Selection: _____ Seat Surface Selection _____

Planters: Trim Selection: _____ Side Color: _____

SKIRTING

Location indicated on plans

1" Pressure treated lattice- horizontal and vertical (English)

Solid board skirting Material: Premium PT Horizontal Vertical

Opening between level changes: between stairs and porch

Other, specify _____

PORCH FLOORING

On level with house door Below house door 1.75 inches

Same flooring as deck (outlined above)

Tongue and Groove treated flooring Pre-Primed Unprimed

No change to existing floor structure or finish

Other: Decking in porch to be laid horizontally

Add screen below existing porch floor

WALL DETAILS

Porch Railing- Style/Manuf/Color: Archadeck Premium Porch Rail Same as Deck

Knee wall: Height _____ Ext. Finish _____ Int. Finish _____

Open (No screen panels)

Fiberglass Screen

Screen-Eze Track Color: white

Eze-Breeze 4-Track: Frame Color: _____

PORCH POSTS

Solid Treated Cox Lam

4x4 6x6 6x6 at corners only

Sleeved (describe) _____

Other _____

DOOR

PCA Aluminum Door: color White

A-100 A-500 A-110 Other: _____

Larson Storm Door: color _____

CEILING FINISH

Full-View Screen Away Premier Petview Petdoor (add \$170)

Cathedral Ceiling Flat Ceiling

Rafters Enclosed

Ceiling Materials:

Beadboard Spruce T&G Other _____

Other Ceiling Details: _____

ROOF FRAMING

Gable Roof Shed Roof Hip Roof

Gable End - Exterior: Open Closed-Material: _____

Gable End - Interior: Match Ceiling Finish Other-Material: _____

Gable Details - Other _____

Roof Tie In:

To Existing House Roof To Side Wall Other _____

Shingles - *best match* Shingles - other _____

Velux Fixed Skylights 2'x4' 3'x4' 4'x4' Other: _____

Rep Purchaser

Gutters:

None

Match Existing (Does not include covers or guards)

Electrical



- Ceiling fan (fixture and accessories provided by homeowner) Qty: 1
- Flood light (fixture and accessories provided by homeowner) Qty: 1
- Recessed can lights Qty: _____
- Outdoor electrical receptacles Qty: 2
- Lighted Accent Tray (Rope light included)
- Back Door/ Coach Light
- Other: _____

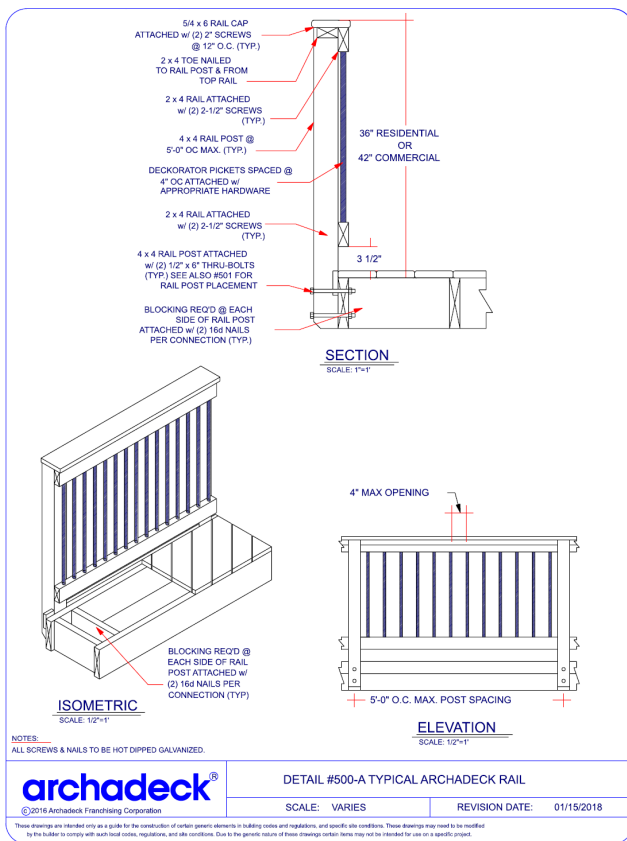
FIREPLACE

- Insert Size: _____
- Wood Burning Gas
- Mantle
- Wood Stone- Material: _____
- Hearth Details: _____ Raised Floor Mount
- Interior Finish:
- Cultured Stone- Mat: _____ Sawn Stone- Mat. _____ Other: _____
- Exterior Finish
- Cultured Stone- Mat: _____ Sawn Stone- Mat. _____ Siding _____

OTHER ITEMS NOT DOCUMENTED ABOVE

All lumber is premium ground contact No. 1

Rep  Purchaser 



Example of Archadeck Premium Rail with Deckorator Balusters (Unstained)



Archadeck Premium Porch Rail with Deckorator Balusters (Painted)

archadeck® | outdoor living

Better Building by Design

PROJECT PROPOSAL

ADDITIONAL DETAILS

Prepared by
Archadeck of Raleigh-Durham
1230 ACC Blvd, Suite #100
Raleigh, NC 27617
919-973-1523

Unauthorized duplication is prohibited

#Q-2476-4

MUSCATELL, KEELY & DAYE
402 HILLSBOROUGH ST.
CHAPEL HILL, NC 27514

04/23/23

Step 3

CHOOSE YOUR KICK PLATE OPTION

(STANDARD)

Why PCA Doors Are the Most Durable Screen Doors On The Market Today

Frame withstands 740 lbs of pressure

Screens withstand up to 550 lbs of pressure

PCA Screen Doors Come With Everything You Need To Install

The Universal installation kit allows your door to be installed left or right, in-swing or out, adjustable in width and height, and includes:

- Quiet Close Wood Pile Lined Z-Bar
- Closure Tube
- EZ-Pull Handle
- Full Length Piano Hinge
- Adjustable Expander
- Adjustable Bug Sweep

For additional help visit www.pcaproducts.com/help

PCA SCREEN DOORS HAVE A 99% SATISFACTION RATE, AND COME WITH A LIFETIME WARRANTY.

Ask your dealer how to buy your PCA screen door today!

PCA PRODUCTS
HANDCRAFTED CUSTOM ALUMINUM SCREEN DOORS
www.pcaproducts.com

SCREEN DOOR DESIGNS ANY HOME TO ENHANCE STYLE

AND OPTIONS TO PERSONALIZE THE LOOK

Step 4

CONSIDER A HANDLE AND HARDWARE UPGRADE (ALL PARTS ARE RUST FREE)

(STANDARD)

Heavy Aluminum Frame
065 heavy wall aluminum frame will not rot, rust, twist, or warp.

Exclusive Self-Locking Screen System™
for screens that absolutely will not blow out.

Powder Coated Finish
hand-applied for a durable lasting finish. Available in 6 colors: White, Bronze, Ivory, Clay, Sandstone, Black.

Aluminum Corner Keys
keeps the corners tight to prevent door sag.

Exclusive Thru Lock System™
doubles the wall thickness where joints intersect for added strength.

Plate System
features a clean look with no unsightly spline.

THE LAST SCREEN DOOR YOU'LL BUY

Step 5

CONSIDER PET DOOR OPTIONS

(STANDARD)

OPENING 6" X 8" OPENING 11" X 13" OPENING 13" X 20"

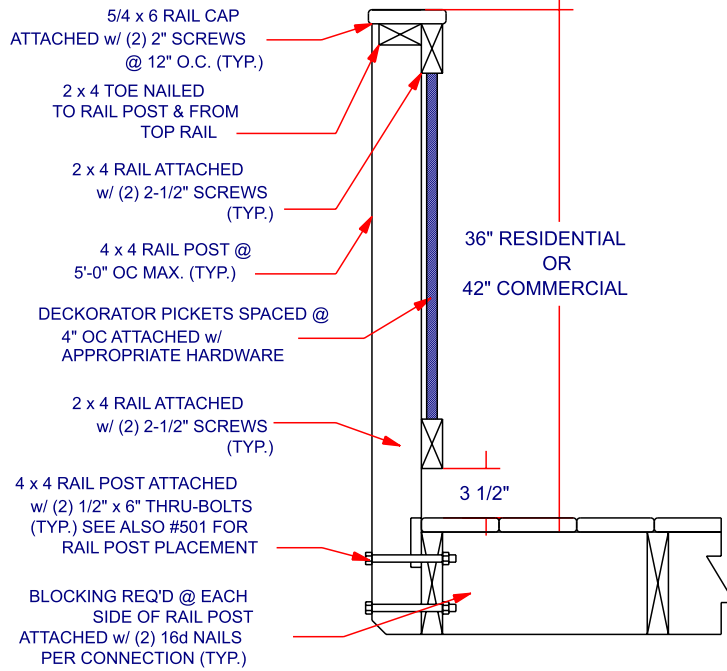
ON PAIR © 2018



PCA Aluminum Screen Door Example.

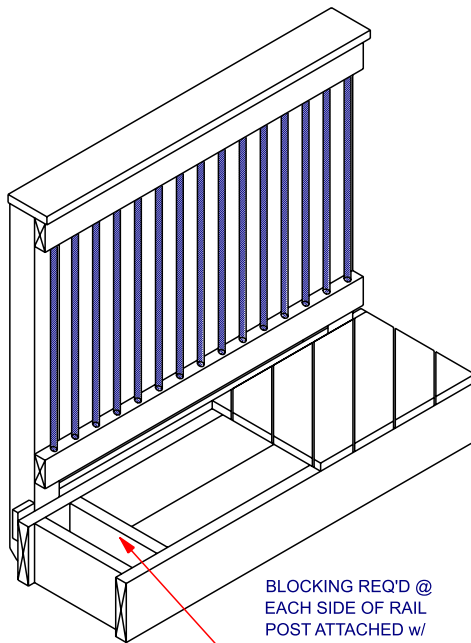


Premium Stain-Grade Plybead Ceiling Finish (Painted)



SECTION

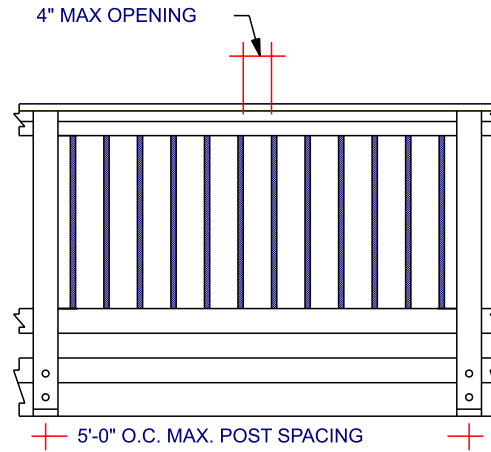
SCALE: 1"=1'



ISOMETRIC

SCALE: 1/2"=1'

BLOCKING REQ'D @
EACH SIDE OF RAIL
POST ATTACHED w/
(2) 16d NAILS PER
CONNECTION (TYP.)



ELEVATION

SCALE: 1/2"=1'

NOTES:

ALL SCREWS & NAILS TO BE HOT DIPPED GALVANIZED.

archadeck[®]

©2016 Archadeck Franchising Corporation

DETAIL #500-A TYPICAL ARCHADECK RAIL

SCALE: VARIES

REVISION DATE: 01/15/2018

These drawings are intended only as a guide for the construction of certain generic elements in building codes and regulations, and specific site conditions. These drawings may need to be modified by the builder to comply with such local codes, regulations, and site conditions. Due to the generic nature of these drawings certain items may not be intended for use on a specific project.

Step 3

CHOOSE YOUR KICK PLATE OPTION

(STANDARD)



Why PCA Doors Are The Most Durable Screen Doors On The Market Today



Frame withstands 740 lbs of pressure



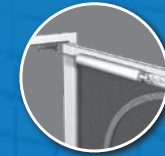
Screens withstand up to 550 lbs of pressure

PCA Screen Doors Come With Everything You Need To Install

The Universal installation kit allows your door to be installed left or right, in-swing or out, adjustable in width and height, and includes:



Quiet Close Wool Pile Lined Z-Bar



Closure Tube



EZ-Pull Handle



Full-Length Piano Hinge



Adjustable Expander



Adjustable Bug Sweep

All PCA doors come in one package, complete with:

- The Universal Installation Kit (parts shown above)
- 18/14 Standard Screen
- 8" Kick Plate
- All Installation Fasteners

For additional help visit www.pcaproducts.com/help



THE LAST SCREEN DOOR YOU'LL BUY



Step 4

CONSIDER A HANDLE AND HARDWARE UPGRADE

(ALL PARTS ARE RUST FREE)

(STANDARD)

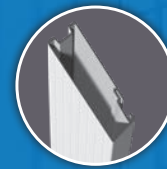


EZ-Pull Handle
Out-Swing Doors

Kephart Deadlock
Add-on security feature to the EZ-Pull handle

Albright In-Swing Handle and Closer Tube Bracket
Specifically designed for in-swing doors

Tasman Security Locking Handle
In-swing and out-swing doors



Heavy Aluminum Frame
.065 heavy wall aluminum frame will not rot, rust, twist, or warp.



Exclusive Self-Locking Screen System™
for screens that absolutely will not blow out.



Powder Coated Finish
hand-applied for a durable lasting finish. Available in 6 colors: White, Bronze, Ivory, Clay, Sandstone, Black.



Aluminum Corner Keys
keeps the corners tight to prevent door sag.



Exclusive Thru-Lock System™
doubles the wall thickness where joints intersect for added strength.



Kick Plate System
features a clean look with no unsightly spline.

Step 5

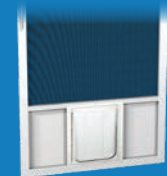
CONSIDER PET DOOR OPTIONS



Small: Cats & Miniature Dogs

Medium: 20-50 lbs

Large: 50 lbs and Over



OPENING 6" X 8"

OPENING 11" X 13"

OPENING 13" X 20"

PCA SCREEN DOORS HAVE A 99% SATISFACTION RATE, AND COME WITH A LIFETIME WARRANTY.

Ask your dealer how to buy your PCA screen door today!



HANDCRAFTED CUSTOM ALUMINUM SCREEN DOORS

www.pcaproducts.com

SCREEN DOOR DESIGNS ANY HOME TO ENHANCE STYLE

AND OPTIONS TO PERSONALIZE THE LOOK

Custom Handcrafted Aluminum Screen Doors

The strength of a storm door now in a screen door

5 Easy Steps to Customize the Look of Your Screen Door

1 CHOOSE YOUR DOOR STYLE AND COLOR

2 SELECT THE SCREEN TYPE

3 CHOOSE YOUR KICK PLATE OPTION

4 SELECT YOUR HANDLE OPTION

5 CONSIDER PET DOOR OPTIONS

All PCA Doors Are Available in a French Door Configuration with No Center Post



Step 1

CHOOSE YOUR DOOR STYLE AND COLOR

VISUALIZE ON YOUR HOME AT www.pcaproducts.com/MyHome

Standard and custom sizes are available visit: www.pcaproducts.com/QR

Decorative Options Are Available On These Styles

A-100 Canoe Creek	A-110 Still Waters	A-200 Willoughby	A-300 Laurel Hill	A-500 Westmore	A-500 Tuxedo Westmore	A-552 Cottage
C-500 Portofino	C-510 Capri	I-750 Palmer Woods	NL-1020 Aruba Left	NR-1020 Aruba Right	NL-1040 Bermuda Left	NR-1040 Bermuda Right
O-250 French Quarter	O-270 St. Charles	P-100 Imperial	P-110 Majestic	P-120 Gershwin	NL-2000 Sea Brook Left	NR-2000 Sea Brook Right
Q-1500 Highland Park	Q-1510 Racine	Q-1515 Riverside	Q-1520 Hyde Park	Q-1530 Madison	Q-1540 Oak Park	Q-1550 Delavan

Gulf Breeze Collection

Ocean Avenue Collection

St. Michael's Collection

Optional airbrushed finish available

6 color choices

- White
- Bronze
- Ivory
- Clay
- Sandstone
- Black

Step 2

CHOOSE YOUR SCREEN OPTION

STANDARD 18/14 Mesh Screen	Heavy Duty Screen	20/20 Screen	Pet Screen

SCREENEZE® & SNAPTRACK PRODUCT SPECS

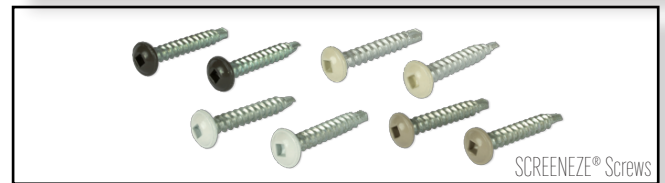
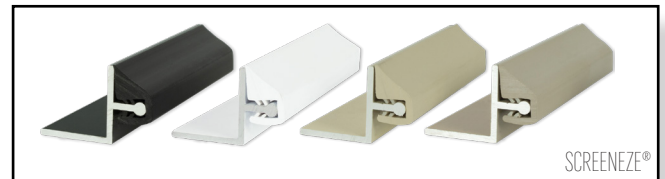
Aluminum Base Channel

- Solid 6061 aluminum alloy
 - Temper T5
- SCREENEZE® - Baked on polyester paint
- SCREENEZE® - 3/4" x 3/4" | 0.062" thick | 8' or 12' in length
 - SNAPTRACK - Powder coated
- SNAPTRACK - 3/4" | 0.062" thick | 8' in length

PVC Vinyl Cap

- Window grade, virgin vinyl with UV inhibitor
- SCREENEZE® - 3/8" x 1/2" | 8' or 12' in length
 - SNAPTRACK - 3/4" | 8' in length

BRONZE | WHITE | SAND | CLAY



SCREENEZE® Screws

- High tensile strength carbon steel metal to wood fastener
 - #10 thread
 - 1 1/4" in length
 - #8 size head
 - Square drive #2 bit
- Tech/drill design for easy penetration through metal
 - High thread for faster drilling
 - 1000 hour salt spray coating
 - Color coordinated with SCREENEZE®

SNAPTRACK Screws

- Countersunk flat head
 - #6 size head
 - 1 1/4" in length
 - Phillip drive
 - Wood screw
 - Stainless steel
- Hidden under vinyl cap when installed
 - 1000 hour salt spray coating

1,000 HOUR SILVER RUSPERT®

Our screws have a three-layer coating consisting of (1) a metallic zinc layer, topped with a (2) chemical conversion film layer, which is finally covered by a (3) baked ceramic surface coating. The finished parts have a dull silver color and will withstand a minimum of 1,000 hour Salt Spray test.



Fixed Deck Mount (FS) Unit Skylight - Guide Specification

For over 80 years, VELUX has been delivering energy efficient daylight to living spaces where people, live, work, and play. VELUX is the world leader in harnessing the benefits of the sun, providing energy efficient top lighting solutions, and recognized as one of the strongest brands in the global materials and home improvement industry.

VELUX FS skylights are designed for residential sloped roof applications. Daylighting provided through VELUX skylights improves the energy efficiency and visual comfort of these residential and commercial spaces. The VELUX FS skylight is a category leader with a maintenance free frame, structural seal, and durable thermal pane options with performance levels meeting project specifications. The thermal pane glazing options carry a 20 year warranty against seal failure, and have a specially formulated LoE³ - 366™ coating. This coating, specifically designed for skylight applications, provides a high visible light transmission while reducing solar heat gain and UV penetration.

VELUX test facilities ensure that new products comply with regulations and market demands for technical performance. VELUX testing ensures that our products are able to withstand the most difficult climatic conditions to which VELUX products are typically exposed to in the markets where they are sold. Our test procedures include load capacity, air and water tightness in a test chamber and a weather simulator, mechanical tests, impact test results, durability tests, U-factor and solar heat gain tests, burn brand resistance and visual inspection of the surface quality.

Contact **VELUX America LLC.**, Greenwood, SC 29648; www.VELUXusa.com; 800-888-3589, specifications@veluxusa.com.

VELUX® is a registered trademark of VKR Holding A/S
This document is Copyright© 2022 by VELUX America, LLC.

SECTION 08 62 00 -UNIT SKYLIGHTS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Fixed deck mount unit skylight with formed counter flashing for mounting on the roof deck, for low-slope and steep-slope roofing applications.

1.2 REFERENCE STANDARDS

Specifier: If retaining optional "References" article, edit to include standards cited in edited Section.

- A. General: Applicable edition of references cited in this Section is current edition published on date of issue of Project specifications, unless otherwise required by building code in force.
- B. American Architectural Manufacturers Association (www.aama.net), Window & Door Manufacturers Association (www.wdma.com), Canadian Standards Association (www.csagroup.org/us/en/services)
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/ Specification for Windows, Doors, and Skylights (NAFS)
 - 2. CSA A440S1-19 - Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440
 - 3. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum and Panels
- C. ASTM International: www.astm.org:
 - 1. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
 - 2. ASTM E 108 - Standard Test Methods for Fire Tests of Roof Coverings
 - 3. ASTM E 283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
 - 4. ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
 - 5. ASTM E 408 - Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques
 - 6. ASTM E 1886 - Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
 - 7. ASTM E 1996 - Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes
- D. Code of Federal Regulations:
 - 1. 29 CFR 1910.29 (e) (1) - Occupational Safety and Health Standards for Fall Protection Systems and Falling Object Protection - Criteria and Practices.

- E. Illuminating Engineering Society of North America (IESNA): www.ies.org:
 - 1. IESNA - The Lighting Handbook.
- F. National Fenestration Rating Council: www.nfrccommunity.org:
 - 1. NFRC 100 - Procedure for Determining Fenestration Product U-factors
 - 2. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence

1.3 COORDINATION

- A. Coordinate unit skylight interior termination locations with structural layout, ceiling grid layouts, and other ceiling-mounted items.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site prior to delivery of unit skylight and installation of roof deck.

1.5 ACTION SUBMITTALS

- A. Product Data: For unit skylights. Include standard construction details, product performance characteristics, and material descriptions, dimensions of individual components and profiles, and finishes.
 - 1. Include test reports of qualified independent testing agency or third party certificates verifying compliance with performance requirements.

Specifier: Retain "LEED Submittals" Paragraph when required for Project; this Paragraph stipulates documentation required from Contractor to support cited construction-phase credits.

Review design-phase credits available related to unit skylights, including contribution to IEQ Cr 6.1 Controllability of Systems, IEQ Cr 8.1. Daylighting, EA Cr 1 Energy Optimization, and ID Cr 1 Innovation in Design credits. Consult VELUX representative for detailed support data.

B. LEED Submittals:

1. Credit MR 4 Recycled Content: Documentation indicating the following:

- a. Percentages by weight of post-consumer and pre-consumer recycled content.
- b. Total weight of products provided.
- c. Include statement indicating costs for each product having recycled content.

C. Shop Drawings: For unit skylight work. Include plans, elevations, sections, details, and connections to supporting structure and other adjoining work.

1. Lighting photometric study indicating compliance with performance requirements in accordance with IESNA. Include layout, spacing criteria and foot-candle report.

1.6 INFORMATIONAL SUBMITTALS

Specifier: Retain paragraphs below when Project requirements include compliance with Federal Buy American provisions. VELUX Fixed Deck Mount skylights complies with requirement.

A. Florida State Product Approval Listing Number: Indicating that products comply with requirements of Florida State Building Code. www.floridabuilding.org/pr/pr_app_srch.aspx

B. Warranty: Sample of special warranty.

1.7 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data.

1.8 QUALITY ASSURANCE

Specifier: VELUX America, LLC. has been producing skylights in the US for over 30 years and in Europe for an additional 30 years prior to that. VELUX has a reputation among architects and contractors as the most reliably performing skylight in the world.

A. Manufacturer Qualifications: A qualified manufacturer listed in this Section with minimum 30 years' experience in the US manufacturing similar products in

successful use on similar projects and able to provide unit skylights meeting requirements.

Specifier: Retain "Approval of Manufacturers and Comparable Products" Subparagraph if Owner will consider product substitutions.

1. Approval of Manufacturers and Comparable Products: Submit the following in accordance with project substitution requirements, within time allowed for substitution review:
 - a. Completed and signed Substitution Request form.
 - b. Product data, including photometric data and independent test data indicating compliance with requirements.
 - c. Sample product warranty.

1.9 WARRANTY

- A. Manufacturer's Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of unit skylights that fail in materials or workmanship under normal use within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Deterioration of metals, metal finishes, dome, and other materials beyond normal weathering.
 - b. Breakage of glazing.
 2. Warranty Period:
 - a. Unit Skylight and Flashing Product Warranty: 10 years from date of purchase.
 - b. Unit Skylight and Flashing Installation "No Leak" Warranty: 10 years from date of purchase.
 - c. Hail Breakage Warranty for Skylight Glass: 10 years from the date of purchase on all insulated glass units using laminated glass.
 - d. Insulating Glass Seal Failure Warranty: 20 years from date of purchase.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide products of **VELUX America LLC.**, Greenwood, SC 29648; www.VELUXusa.com; (800) 878-3589, specifications@veluxusa.com.

Specifier: Retain "Substitutions" Paragraph and select one of two options based upon Project requirements.

- B. Substitutions: [None allowed by Owner] [As permitted under Instructions to Bidders and Section 012500 "Substitution Procedures"].
- C. Source Limitations: Obtain unit skylights through single source from single manufacturer.

2.2 Fixed Deck Mounted (FS) Unit Skylights

- A. System Description: Fixed deck mounted unit skylight consisting of the following main integrated components – an interior condensation drainage gasket, pre-finished white wooden frame [Special order stain grade wooden frame available on request], exterior maintenance-free [aluminum] [copper] cladding/counter flashing, ASA corner keys, and an insulating thermal pane glass unit with two seals, warm edge spacer system, three coats of LoE³ silver to increase visible light transmittance while reducing solar heat, and a continuous deck seal mounting system with durable foam seal. FS skylights shall be suitable for installation on roof decks ranging from 14 degrees up to 85 degrees from horizontal.

1. Basis of Design: **VELUX America, LLC, Model FS Fixed Deck Mount Skylight.**

Specifier: **FS** standard unit sizes are not available as a stocked product for all glazing options. Custom sizes not available..

- B. Wood: Kiln-dried, laminated Ponderosa Pine and Eastern White Pine pre-finished white. Wood shall be Forest Stewardship Council (FSC) certified or have an FSC certified chain of custody certification.
- C. Maintenance free exterior cladding: [Roll formed 0.57 mm aluminum frame coverings with neutral gray Kynar[®] polyvinylidene fluoride resin finish,] [0.55 mm copper frame coverings,] production engineered, and fabricated to fit exterior exposed surfaces.
1. Unit Sizes: [A06], [C01], [C04], [C06], [C08], [C12], [D26], [M02], [M04], [M06],[M08], [S01], [S06][as indicated on Drawings].
- D. Weather stripping: Factory applied neoprene and thermoplastic elastomeric weather stripping throughout entire frame, profiled to effect weather seal.
- E. Insulated Glass Unit: Factory assembled with low emissivity exterior pane and clear interior pane separated by a stainless steel spacer sealing the space between panes with 90% argon gas.

1. Exterior Pane: 0.125 inch (3mm) thick tempered glass with Neat[®] exterior coating and interior surface coated with three layers of low emissivity silver (LoE³) coating LoE³ 366.

Specifier: Retain one of the three interior pane options below. VELUX product codes list the standard laminated pane as 04 with heat strengthened interior panes using a clear interlayer. VELUX offers an interior pane option for wind-borne debris regions. The wind-borne debris laminated interior pane with a thicker polyvinyl butyral interlayer is listed by VELUX as an impact 06 glazing for use in wind zone 3 regions requiring a class C missile level. A snow load laminated interior pane is offered with the laminated panes being tempered. Laminated panes are typically required by building codes when any portion of the glass is higher than 12 feet above finished floor. VELUX laminated panes are marketed as "Clean, Quiet and Safe" glass.

2. Interior Pane:

- a. [Standard [with i89 coating]: Laminated, Two clear 0.090 inch (2.3 mm) heat-strengthened panes with a 0.030 inch (0.76 mm) clear polyvinyl butyral interlayer sandwiched together.] [interior pane surface with Indium Tin Oxide (ITO) coating (LoE-i89® coating)]
 - b. [Impact: Laminated for wind-borne debris regions, Two clear 0.090 inch (2.3 mm) heat-strengthened panes with a 0.090 inch (2.3 mm) clear polyvinyl butyral interlayer sandwiched together.]
 - c. [Snow Load: Laminated, Two clear 0.12 inch (3 mm) tempered panes with a 0.030 inch (0.76 mm) clear polyvinyl butyral interlayer sandwiched together.]
- F. Structural Sealant: Factory applied Instant glaze sealant, clear color, bonding the glass pane to the aluminum frame and suitable for external exposure.
- G. Mounting System: Continuous corrosion resistant mounting system with a durable foam seal and rough opening alignment notches.

Specifier: FS skylight supplied 26 mounting fasteners.

- H. Mounting Fasteners: 10 gauge 1.25 inch (32 mm), ring shank nails provided with skylight. Ring shank nails are double hot dipped zinc coated. 26 field installed nails secure skylight to roof deck as indicated in manufacturer's installation instructions.

2.3 Flashings

Specifier: Type EDL step flashing designed for use with roofing material less than 0.5 inch (13 mm) thick (typically asphalt shingles, cedar shingles and slate) and for use on roof slopes 14 degrees or greater and not more than 85 degrees. Type EDW high profile flashing designed for use with high profiled roofing materials (clay tile, concrete tile and cedar shakes) not greater than 4.75 inches (120 mm) in height, and for use on roof slopes 14 to 85 degrees. EDL or EDW flashing is required with skylight in order for VELUX 10 year "No Leak" warranty to be valid.

- A. Step Flashing: Roll formed aluminum, neutral grey finish, factory engineered and fabricated seams, consisting of head flashing, sill flashing, step flashing pieces and adhesive underlayment suitable for use on roof pitches 14 to 85 degrees from horizontal.
1. Basis of Design: **VELUX America, LLC, EDL Step Flashing.**
 2. Size: As required for skylight sizes indicated.
 3. Material:
 - a. Head flashing 23 gauge (0.57 mm) thick aluminum with polyester lacquer finish.
 - b. Sill flashing 22 gauge (0.65 mm) thick aluminum with Kynar 500 finish.
 - c. Step pieces 27 gauge (0.42 mm) thick aluminum with polyester lacquer finish.
 - d. Adhesive underlayment: 9 inches (229 mm) wide x 21 feet (6.4 m) length x 0.03 inch (0.8 mm) thick, SBS modified bitumen with white polyethylene backing sheet.

- B. High Profile Flashing: Roll formed aluminum, neutral grey finish, factory engineered and fabricated seams, consisting of head flashing, sill flashing, side gutter pieces, counter flashing and adhesive underlayment suitable for use on roof pitches 14 to 85 degrees from horizontal.
1. Basis of Design: **VELUX America, LLC, EDW High Profile Flashing.**
 2. Size: As required for skylight sizes indicated.
 3. Material:
 - a. Head flashing 23 gauge (0.57 mm) thick aluminum with polyester lacquer finish.
 - b. Sill flashing 22 gauge (0.65 mm) thick aluminum with polyester lacquer finish and 9 inch (229 mm) pleated apron.
 - c. Side gutter pieces 23 gauge (0.57 mm) thick aluminum with polyester lacquer finish.
 - d. Adhesive underlayment: 12 inches (305 mm) width x 21 feet (6.4 m) length x 0.03 inch (0.8 mm) thickness, SBS modified bitumen with white polyethylene backing sheet.

2.4 ACCESSORIES

- A. Pleated Blinds:
1. Solar powered, [room darkening double pleated] [light filtering single pleated] fabric with [white] [beige] [special] color as indicated on drawings. 24 volt dc blinds operated via 2.4 GHz radio frequency [basic wall mounted remote control provided with blind].

2.5 PERFORMANCE REQUIREMENTS

- A. The FS deck mounted skylight is independently tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440 (NAFS-17) for compliance with International Building Code, International Energy Conservation Code and International Residential Code as follows:
1. Water Test Pressure: No water penetration noted as measured in accordance with ASTM E 331 with a test pressure differential of 720 Pa (15.0 psf).
 2. Air Leakage Rate: Maximum of 0.11 CFM/ft² of total unit area, measured at a pressure of 75 Pa (1.57 psf) in accordance with ASTM E 283.
 3. Canadian Air Infiltration/Exfiltration Rating: Fixed. (0.5 L/s/m² maximum)
 4. Design Pressure (DP):
 - a. [[04 Standard Laminated Pane] [89 standard Laminated Pane with i89 Coating]: [S06 and S01 sizes design pressure = +330/-70 psf (+15.8/-3.35 kPa)] [and] [M08 and smaller sizes design pressure = +240/-105 psf (+11.5/-5.03 kPa)].]
 - b. [[06 Impact Pane: [S06 and S01 sizes design pressure = +180/-50 psf (+8.62/-2.39 kPa)] [and] [M08 and smaller sizes design pressure = +200/-90 psf (+9.58/-2.39 kPa)].]
 - c. [[10 Snow Load Pane: [S06 and S01 sizes design pressure = DP = +720/-65 psf (+34.5/-3.11 kPa)] [and] [M08 and smaller sizes design pressure = +640/-100 psf (+30.6/-4.79 kPa)] [and] [C06 and smaller sizes design pressure = +1350/-65 psf (+64.6/-3.11 kPa)].]
- B. Daylighting: Provide daylighting photometric performance comparable to basis of design product at layout indicated, based upon daylighting profile of March

21, 9:00 am local time, at Project location by simulation in accordance with IESNA guidelines.

- C. [Windborne-Debris Resistance: Wind Zone 3 or Less: Provide unit skylights capable of resisting impact from windborne debris, based on the pass/fail criteria as determined from testing glazed representative of those specified, according to ASTM E 1886 and ASTM E 1996. Missile Level C, Wind Zone 3 requirements, and +50/-50 psf cycle pressure minimum.]
- D. Fire Ratings for Roof Assemblies with Fire Classifications: Unit skylight tested in accordance with ASTM E 108 and listed as passing Burning Brand test with target classification of Class B.
- E. Energy Performance ratings for any size venting deck mounted unit skylight with tempered exterior glass pane and interior pane as follows:

Specifier: Retain the appropriate option in the 3 paragraphs below that corresponds to the type of insulated glass unit used on Project.

- 1. Thermal Transmittance: NFRC 100 maximum U-factor:
 - a. [04 Standard Laminated: 0.44 Btu/hr*ft²*deg F (2.49 W/m²*deg C).]
 - b. [06 Impact Laminated: 0.41 Btu/hr*ft²*deg F (2.36 W/m²*deg C).]
 - c. [89 Standard Laminated with i89 Coating: 0.38 Btu/hr*ft²*deg F (2.16 W/m²*deg C).]
 - d. [10 Snow Load Laminated: 0.42 Btu/hr*ft²*deg F (2.4 W/m²*deg C).]
- 2. Solar Heat-Gain Coefficient (SHGC): NFRC 200 maximum SHGC:
 - a. [04 Standard Laminated: 0.26]
 - b. [06 Impact Laminated: 0.26]
 - c. [89 Standard Laminated with i89 Coating: 0.25]
 - d. [10 Snow Load Laminated: 0.26]
- 3. Visible Transmittance (Vt): NFRC 200 maximum Vt:
 - a. [04 Standard Laminated: 0.60]
 - b. [06 Impact Laminated: 0.60]
 - c. [89 Standard Laminated with i89 Coating: 0.59]
 - d. [10 Snow Load Laminated: 0.59]

- F. Fall Protection Standard Compliance: 29 CFR 1910.29: Testing for all laminated venting deck mount unit skylights.

2.6 MATERIALS

- A. Aluminum Sheet: Flat sheet complying with ASTM B 209/B 209M.
- B. Joint Sealants: As specified in Section 079200 "Joint Sealants."
- C. Mastic Sealants: Polyisobutylene; nonhardening, nonskinning, nondrying, nonmigrating sealant.

2.7 FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with unit skylight installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install unit skylights in accordance with manufacturer's written instructions and approved shop drawings. Coordinate installation of units with installation of substrates, air and vapor retarders, roof insulation, roofing membrane, and flashing as required to ensure that each element of the Work performs properly and that finished installation is weather tight.
 - 1. Anchor unit skylights securely to supporting substrates.
 - 2. Install unit skylights on curbs specified in another section with tops of curbs parallel to finished roof slope.
- B. Where metal surfaces of unit skylights will contact incompatible metal or corrosive substrates, including preservative-treated wood, apply bituminous coating on concealed metal surfaces, or provide other permanent separation recommended in writing by unit skylight manufacturer.
- C. Additional testing and inspections, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
- D. Prepare test and inspection reports.

3.3 CLEANING AND PROTECTION

- A. Clean exposed unit skylight surfaces according to manufacturer's written instructions. Touch up damaged metal coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
- B. Replace glazing that has been damaged during construction period.
- C. Protect unit skylight surfaces from contact with contaminating substances resulting from construction operations.

END OF SECTION