

Florida Building Code 8th Edition (2023)

High Velocity Hurricane Zone Uniform Roofing Application Form for Village of Pinecrest

INSTRUCTION PAGE

COMPLETE THE NECESSARY SECTIONS OF THE UNIFORM ROOFING PERMIT APPLICATION FORM AND
ATTACH THE REQUIRED DOCUMENTS BELOW:

Roof System	Required Sections of the Permit Application Form	Attachments Required See List Below
Low Slope Application	A,B,C	1,2,3,4,5,6,7
Asphaltic Shingles	A,B,D	1,2,4,5,6,7
Concrete or Clay Tile	A,B,D,E	1,2,3,4,5,6,7
Metal Roofs	A,B,D	1,2,3,4,5,6,7
Wood Shingles and Shakes	A,B,D	1,2,4,5,6,7
Other	As Applicable	1,2,3,4,5,6,7

ATTACHMENTS REQUIRED:

1.	Fire Directory Listing Page
2.	From Product Approval: Front Page Specific System Description Specific System Limitations General Limitations Applicable Detail Drawings
3.	Design calculations per Chapter 16, or if applicable, RAS 127 or RAS 128
4.	Other Component Product Approval
5.	Municipal Permit Application
6.	Owner's Notification for Roofing Considerations (Reroofing Only)
7.	Any Required Roof Testing / Calculation Documentation

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Section A (General Information)

Master Permit Number: BL2024-1046

Process Number: _____

Contractor's Name: RSI of Florida, LLC

Job Address: 11040 SW 69th Ave Pinecrest, FL

ROOF CATEGORY

- ☐ Low Slope ☐ Mechanically Fastened Tile ☒ Mortar / Adhesive Set Tile
☐ Asphaltic Shingles ☐ Metal Panel/ Shingles ☐ Wood Shingles / Shakes

ROOF TYPE

- ☒ New Roof ☐ Repair ☐ Maintenance ☐ Reroofing ☐ Recovering

ROOF SYSTEM INFORMATION

Low Slope Roof Area (ft²)
0

Steep Sloped Roof Area (ft²)
1,600

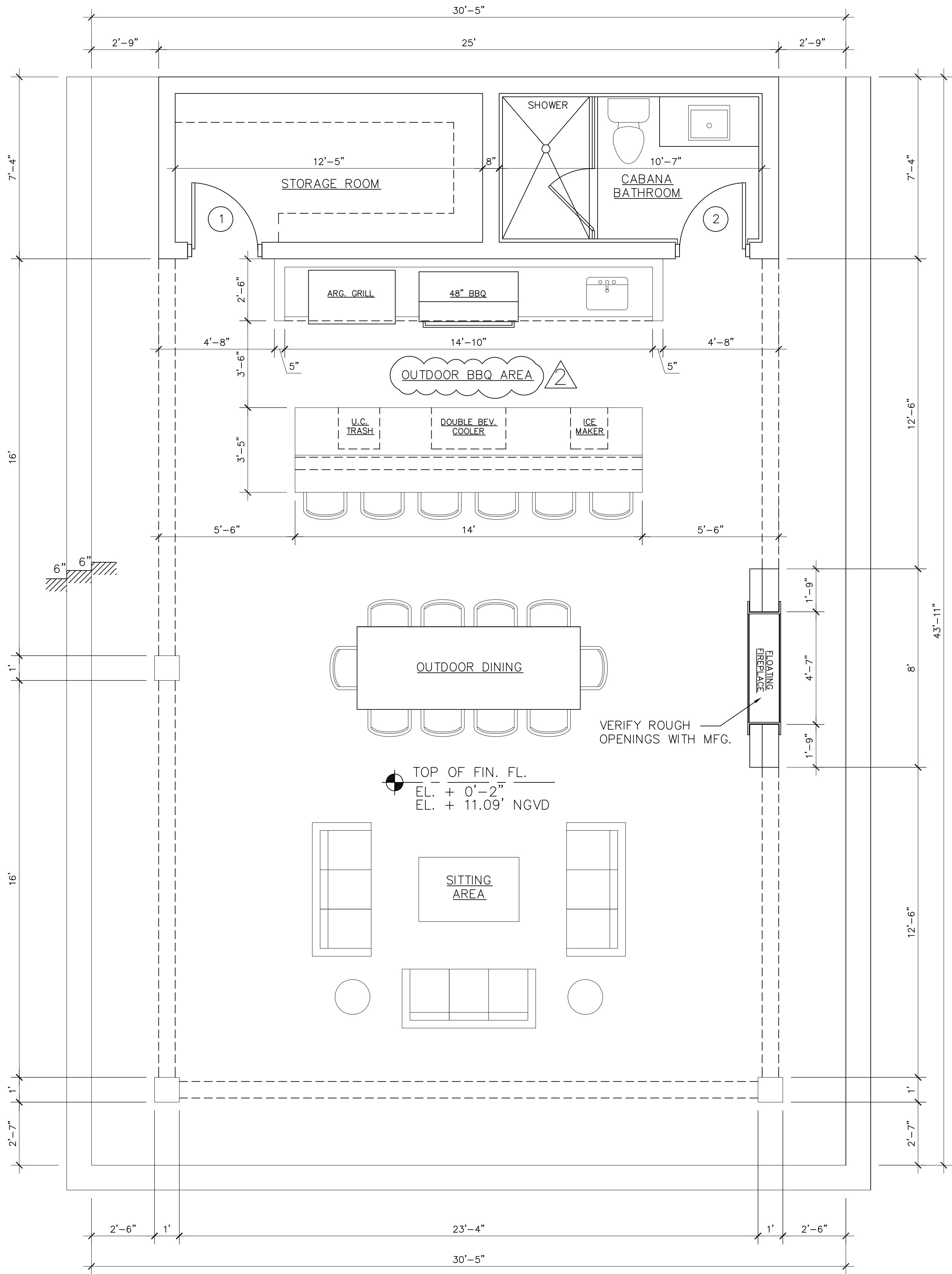
Total (ft²)
1,600

Are there gas vents on the roof? Yes ☐ No ☒ If Yes what type? ☐ Natural ☐ LPX
Is there an existing roof top Solar System? ☐ Yes ☒ No If yes will it be reinstalled? ☐ Yes ☐ No

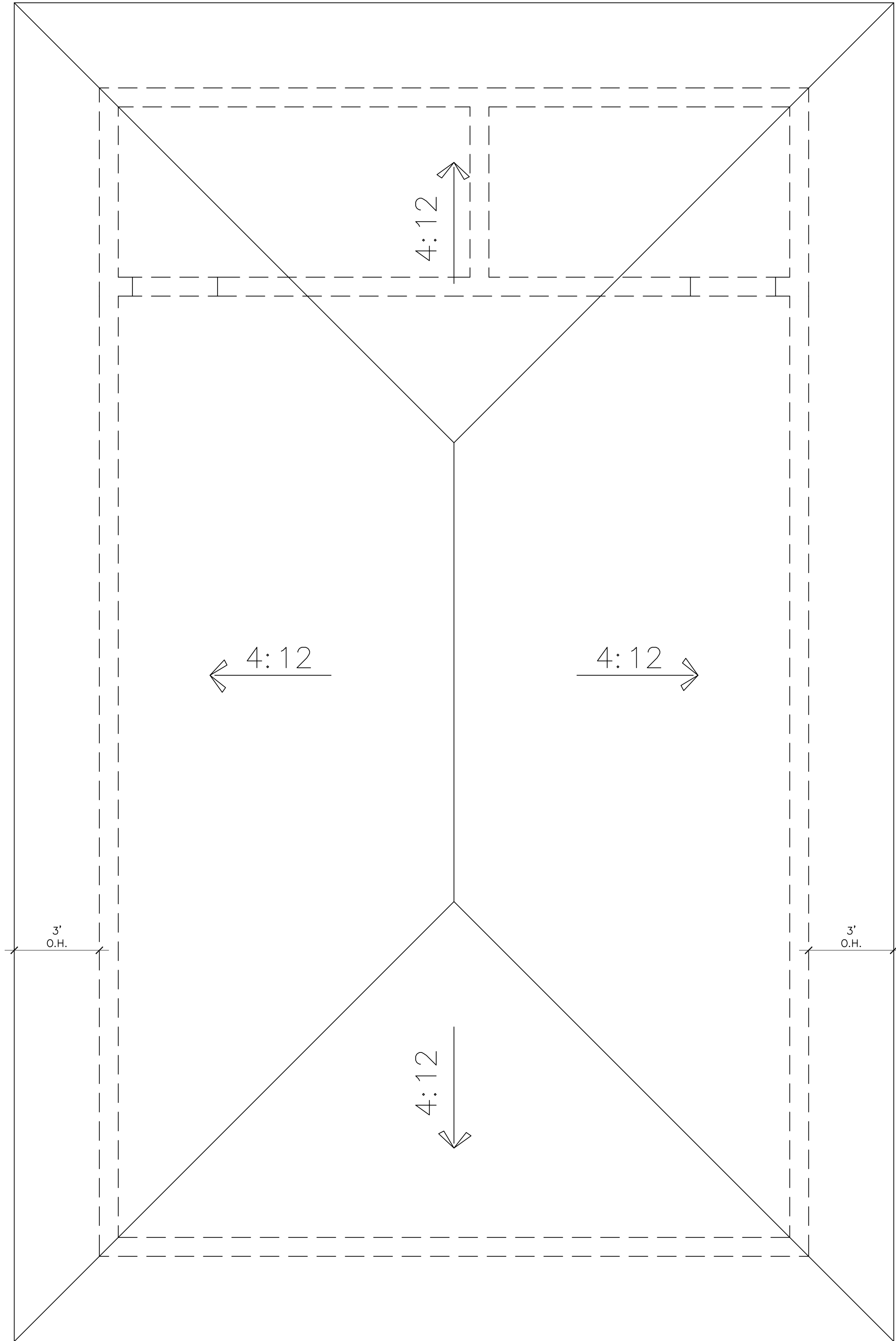
Section B (Roof Plan)

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.

Please see attached roof drawing

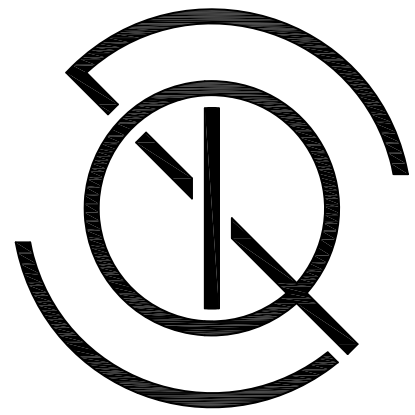


GAZEBO FLOOR PLAN
SCALE: 3/8" = 1'-0"



GAZEBO ROOF PLAN
SCALE: 3/8" = 1'-0"

A SEPARATE PERMIT AND PRODUCT CONTROL APPROVAL, WHEN APPLICABLE, IS REQUIRED FOR THE FOLLOWING ITEMS:
STRUCTURAL GLAZING WOOD TRUSSES DOORS ROOFING WINDOWS
RIDGE VENTILATION CURTAIN WALLS MULLIONS SIGNS GLASS WALL
PRECAST SYSTEMS HANDRAILS RAILS FENCES
STORM SHUTTERS STEEL JOISTS STORE FRONT AWNINGS



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CONSULTANTS

PROJECT NAME:

GOMEZ DRIVEWAY &
BACKYARD REMODEL

OWNER:

WILLIAM GOMEZ & DANIELLA VILAR

11040 SW 69th AVENUE
PINECREST, FL 33156

JOB NUMBER:

2024.01

DATE:

02/17/24

REVISION

1. BUILDING DEPT. COMMENTS - AUG. 2024

2. BUILDING DEPT. COMMENTS - SEPT. 2024

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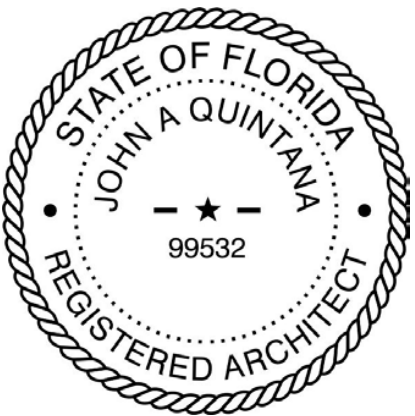
25.

26.

27.

28.

SEAL:



John Alexander Quintana

AR99532

DRAWING TITLE:

GAZEBO FLOOR
PLANS

DRAWING NO:

A2.00

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Section D (Steep Sloped Roof System)

Roof System Manufacturer: Westlake Royal Roofing LLC

Product Control Number: 24-0320.02

Minimum Design Wind Pressures, From Applicable RAS 127 Table or Calculations:

Zone 1: -79.87 Zone 2: -100.26 Zone 3: -107.06

Slope Range: ☒ $\geq 2:12$ to $\leq 4:12$ ☐ $> 4:12$ to $\leq 6:12$ ☐ $> 6:12$ to $\leq 12:12$

Roof Shape: ☒ All Hip Roof ☐ Gable Roof or Partial Gable/Hip Roof

Deck Type: Wood min 15/32 Plywood

Underlayment Type: Polyanchor HV

Roof Slope:
4 : 12

Insulation: N/A

Fire Barrier: N/A

Ridge Ventilation?
N/A

Fastener Type & Spacing: 12ga - 1-1/4 ring shank & Tin Tags
8" O.C. at 4' laps & 8" o.c. in three
staggered rows

Cap Sheet Type: Polyglass TU Max

Mean Roof Height: 14ft

Cap Sheet Attachment: Peel and Stick Back Nailed

Roof Covering: Saxony 900 Slate

Drip Edge Type & Size: 4" x4" 040 Alumnum

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Section E (Tile Calculations)

For Moment based tile systems, choose Method 1. Compare the values for M_r with the values from M_f . If the M_r values are greater than or equal to the M_f values for each area of the roof, then the tile attachment method is acceptable.

Method 1* "Moment Based Tile Calculations per RAS 127"

Enter positive uplift pressures when using this table

(Zone 1: 74.87 x λ 0.315 = 25.16) – M_g : 7.51 = M_{r1} 17.65 Product Approval M_f : 60
 (Zone 2: 100.26 x λ 0.315 = 31.58) – M_g : 7.51 = M_{r2} 24.07 Product Approval M_f : 60
 (Zone 3: 107.06 x λ 0.315 = 33.72) – M_g : 7.51 = M_{r3} 26.21 Product Approval M_f : 60

Tile attachment method:

Alternate Tile attachment method:

For Uplift Based tile systems use Method 3. Compare the values for F' with the values for F_r . If the F' values are greater than or equal to the F_r values for each area of the roof, then the tile attachment method is acceptable.

Method 3* "Uplift Based Tile Calculations per RAS 127"

(Zone 1: _____ x L = _____ x W = _____) – $(w) \times \cos \theta$ _____ = F_{r1} _____ Product Approval F' : _____
 (Zone 2: _____ x L = _____ x W = _____) – $(w) \times \cos \theta$ _____ = F_{r2} _____ Product Approval F' : _____
 (Zone 3: _____ x L = _____ x W = _____) – $(w) \times \cos \theta$ _____ = F_{r3} _____ Product Approval F' : _____

***Method 2 "Simplified Tile Calculations" only applicable in Broward County.**

Where to obtain information		
Description	Symbol	Where to Find
Design Pressure	Zones 1, 2, 3	From the applicable Table in RAS- 127 or be an engineering analysis prepared by a PE based upon ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval / Notice of Acceptance
Restoring Moment due to Gravity	M_g	Product Approval / Notice of Acceptance
Attachment Resistance	M_f	Product Approval / Notice of Acceptance
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	Product Approval / Notice of Acceptance
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	w	Product Approval / Notice of Acceptance
Tile Dimensions	L =Length W = Width	Product Approval / Notice of Acceptance
All calculations must be submitted to the Building Official at the time of permit application.		

POLYANCHOR® HV

HIGH VELOCITY WIND ANCHOR SHEET

PRODUCT DESCRIPTION

Polyanchor HV is a nailable anchor sheet specially designed for the temporary protection of steep-slope roofs in areas prone to high winds. Designed with Duofix™ Technology, Polyanchor HV uses a strong bituminous bonding surface combined with a special tear resistant fiberglass mat to provide superior wind uplift resistance.

The top surface of Polyanchor HV is formulated to provide an ideal bonding surface for Polystick polymer modified self-adhered underlayments. The bituminous compounds in the sheet enhances sealability around fasteners and moisture protection while the heavy-duty mat provides strength and tear resistance around fasteners and plates.

Polyanchor HV is ideally suited for use with clay/concrete tile roof covering systems with Polystick TU Plus or TU Max as the final substrate for the roof covering. Polyanchor HV is also suitable for use under asphalt shingles.

TYPICAL APPLICATIONS

- Nailable anchor sheet over approved steep-slope wood decks for temporary waterproofing protection
- Base sheet for Polystick tile underlayments for concrete, clay, and slate tiles roof covering systems
- Water-resistant barrier on steep slope roofing under asphalt shingles and shakes

FEATURES AND BENEFITS

- Duofix™ Technology provides superior wind uplift resistance.
- Top surface specially designed to provide highly bondable surface for Polystick underlayments
- Surface engineered for walkability on sloped roofs
- High tensile-tear strength mat provides increased fastener and plate tear through resistance
- Nail sealing modified asphalt compound

TECHNICAL DESCRIPTION*

Physical Properties	ASTM Method	ASTM Value	Typical Performance
Break Strength, min. at 77°F (25°C), kN/m	D226 Type II (D146)	7.0 - MD 3.5 - XMD	15 - MD 14 - XMD
Tear strength, min. at 23 ± 2°C, (73 ± 4°F), N	D4073	89 - MD 89 - XMD	1000 - MD 1000 - XMD
Dimensional stability, low humidity to high humidity, max elongation, %	F1087	1.65	0.5 - MD 0.5 - XMD
Pliability at 23 ± 2°C, (73 ± 4°F)	D228	Pass	Pass
Liquid water transmission test	D4869	Pass	Pass
Behavior (loss) on heating at 105°C (221°F) for 5 h, max, %	D228	4	0.1
Nail Sealability, Protocol 1	D7349	Pass	Pass

*The properties in this table are "as manufactured" unless otherwise noted.



PRODUCT DATA**

Net Coverage (Approx) ...200 ft² (18.5 m²)
Gross Coverage215 ft² (20 m²)
Weight (Approx)44 lbs (20 kg)
Thickness (Nominal)40 mils (1.1 mm)
Roll Size65'8" × 39 3/8" (20 m × 1 m)
Rolls/Pallet.....36

**All values are nominal at time of manufacturing

APPLICABLE STANDARDS

- Meets physical and performance requirements of ASTM D6757 and performance requirements of ASTM D226, Type II and ASTM D4869, including resistance to liquid water transmission.
- UL Classified
- Florida Building Code
- Miami-Dade County Approved



PRODUCT CODES

- PAHV2

POLYGLASS®



www.polyglass.us

POLYSTICK® TU MAX

SELF-ADHERED WIND & WATER TILE UNDERLAYMENT

PRODUCT DESCRIPTION

Polystick TU MAX is a self-adhered waterproofing underlayment designed for use in adhesive foam or mechanically fastened roof tile applications. Utilizing ADESO® dual-compound self-adhered technology, Polystick TU MAX features a polymer modified bitumen upper compound and a proprietary self-adhesive SBS (elastomeric) compound on the bottom. A split release film that protects the self adhesive compound allows for easy application.

Polystick TU MAX features a tough polyester reinforced surface fabric which is skid resistant and provides proven foam set adhesion. The combination of aggressive self-adhesive bottom surface and strong bond of foam to the top surface provide strong resistance to wind uplift and seals the roof from wind-driven rain. In mechanically attached systems, the asphaltic compound provide sealability around nails. This product is suitable for the high temperature environments under tile and other roof coverings.

Polystick TU MAX is a flexible membrane allowing it to lay flat with ease, increasing install speed. This product features patented SEALap® factory applied adhesive treatment at the membrane overlap which provides a quick watertight bond.

Although Polystick TU MAX is designed as an underlayment for clay and concrete tile coverings, this membrane can also be installed under slate tiles. Can be installed as part of a multi-ply underlayment system when used over Polystick MTS PLUS.

TYPICAL APPLICATIONS

- Adhesive set and mechanically fastened roof tile applications.
- As part of a multi-ply underlayment system over Polystick MTS PLUS.
- Flexible and lay-flat characteristics; ideal for new construction applications.

FEATURES AND BENEFITS

- Patented ADESO dual-compound self-adhered technology.
- Patented SEALap factory-applied adhesive for fast watertight seams.
- Polyester reinforced surface engineered for slip resistance and strong foam set adhesion.
- Strong foam adhesive bond to top fabric and aggressive self-adhered bottom surface increase wind-uplift resistance.
- Asphaltic compound provides excellent sealability around nails.
- Max 180 days exposure.

TECHNICAL DESCRIPTION*

Physical Properties	ASTM Method	ASTM Value
Maximum Load, Longitudinal and Transverse, min, kN/m (lbf/in.)	D5147	4.4 (25)
Elongation at break, min of modified bitumen portion (%)	D5147	10
Tear Resistance, Longitudinal and Transverse, min, N (lbf)	D5147	89 (20)
Moisture Vapor Permeability, max, perms	E96	0.1
Adhesion to Plywood @ 40°F, min, lbf/ft width	D1970	2.0
Adhesion to Plywood @ 75°F, min, lbf/ft width	D1970	12.0
Sealability around nail	D1970	pass
Waterproof integrity after low temp flexibility	D1970	pass
Waterproof integrity of lap seam	D1970	pass
Slip Resistance	D1970	pass

*The properties in this table are "as manufactured" unless otherwise noted.



PRODUCT DATA**

Net Coverage (Approx) ...200 ft² (18.5 m²)
Gross Coverage 215 ft² (20 m²)
Weight (Approx) 55 lbs (25 kg)
Thickness (Nominal) 60 mils (1.5 mm)
Roll Size 65'8" x 39 3/8" (20 m x 1 m)
Rolls/Pallet.....25

**All values are nominal at time of manufacturing

APPLICABLE STANDARDS

- ASTM D1970
- ICC ESR-1697
- FORTIFIED Roof™ Compliant
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance



PRODUCT CODES

- PSTUMAXQ



www.polyglass.us