

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION				FOR INSURANCE COMPANY USE	
A1. Building Owner's Name Brendan & Cassandra Walsh				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6820 Longboat Drive				Company NAIC Number:	
City Longboat Key		State Florida		ZIP Code 34228	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 109, The Preserve at Longbeach, PB 63, PG 39 & 40, PID #7782201459					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>					
A5. Latitude/Longitude: Lat. <u>27°26'02.23" N</u> Long. <u>82°40'55.10" W</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983					
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.					
A7. Building Diagram Number <u>6</u>					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) <u>1616.67</u> sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>9</u>					
c) Total net area of flood openings in A8.b <u>1800.00</u> sq in					
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
A9. For a building with an attached garage:					
a) Square footage of attached garage <u>N/A</u> sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>0</u>					
c) Total net area of flood openings in A9.b <u>N/A</u> sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number Town of Longboat Key - 125126			B2. County Name Manatee		B3. State Florida
B4. Map/Panel Number 12081C0291	B5. Suffix F	B6. FIRM Index Date 08-10-2021	B7. FIRM Panel Effective/ Revised Date 08-10-2021	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 8
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

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TOWN OF LONGBOAT KEY
 Planning, Zoning & Building

N.M. 4-12-23

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6820 Longboat Drive			Policy Number:
City Longboat Key	State Florida	ZIP Code 34228	Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: NGS BM MCBE 22 Elev=14.25 Vertical Datum: NAVD 1988

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- | | | | |
|---|-------------|--|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>3.6</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>12.8</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | <u>N/A</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | <u>N/A</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | <u>10.6</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>3.0</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>6.2</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | <u>6.2</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.

Certifier's Name Walter J. Smith	License Number PSM #4807	
Title Professional Surveyor and Mapper		
Company Name ESP Associates FL, INC.		
Address 518 13TH ST. W.		
City Bradenton		State Florida

Signature
Walter J. Smith

Date
03-31-2023

Telephone
(941) 345-5451

Ext.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)
The purpose of this Certificate is to depict the Final As-Built Elevation. Site BM based on NGS BM M C B E 22, PID DL1838 with a published Elevation of 14.25 feet (NAVD 1988). A9 c) Engineered openings manufactured by Smartvent Products, Inc., model number 1540-520, ICC-ES Report # ESR-2074 (attached). Rated at 200 square feet per unit. C2(e) Lowest equipment servicing the building is the bottom of the electric meter box on the North side of Residence, first breaker elevation is at 11.38 feet (NAVD 1988).

FEMA Maps were updated in 2020. Previous Map Panel number is 12081C0291 E, Dated 03/14/2014 lying in Zone AE (EL 9)

ELEVATION CERTIFICATE

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City Longboat Key	State Florida	ZIP Code 34228	Company NAIC Number	

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the HAG.
 - b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet meters above or below the HAG.
- E3. Attached garage (top of slab) is _____ feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ feet meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name

Address _____ City _____ State _____ ZIP Code _____

Signature _____ Date _____ Telephone _____

Comments

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TOWN OF LONGBOAT KEY

Planning, Zoning & Building

Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the corresponding information from Section A.

FOR INSURANCE COMPANY USE

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.

Policy Number:

6820 Longboat Drive

City

State

ZIP Code

Company NAIC Number

Longboat Key

Florida

34228

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One

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Photo One Caption Front View (02/08/2023)

Clear Photo One



Photo Two

Photo Two Caption Rear View (02/08/2023)

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

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Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6820 Longboat Drive			Policy Number:
City Longboat Key	State Florida	ZIP Code 34228	Company NAIC Number

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Photo Three

Photo Three Caption Right Side View (02/08/2023)

Clear Photo Three



Photo Four

Photo Four Caption Left Side View (02/08/2023)

Clear Photo Four

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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Photo One

Photo One Caption Vent 1 (02/08/2023)

Clear Photo One



Photo Two

Photo Two Caption Vent 2 (02/08/2023)

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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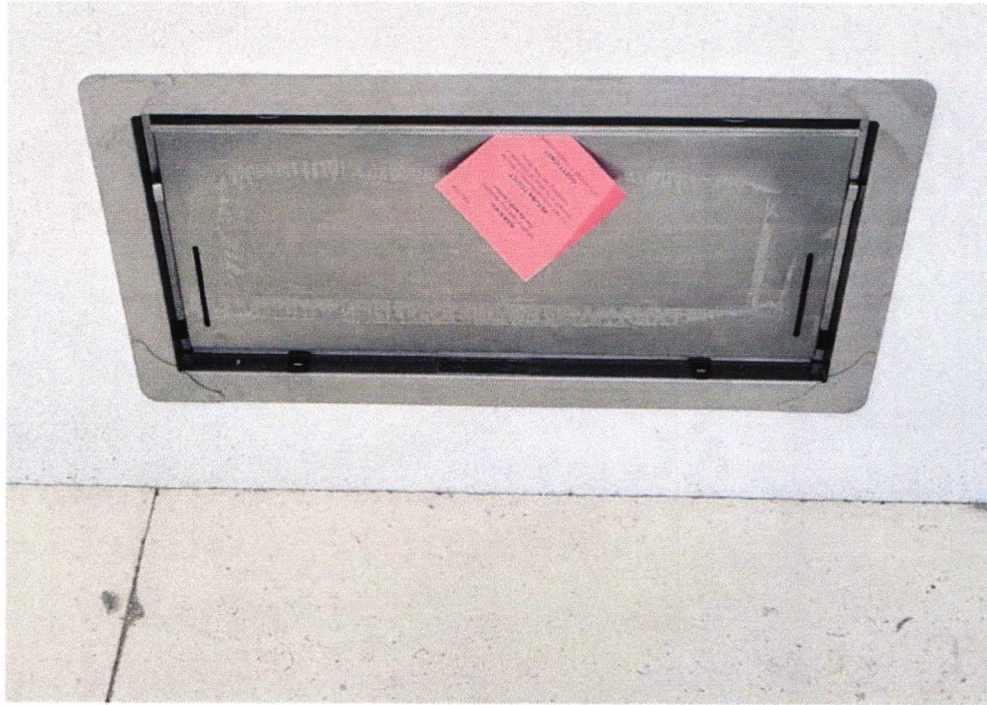


Photo Three

Photo Three Caption Vent 3 (02/08/2023)

Clear Photo Three

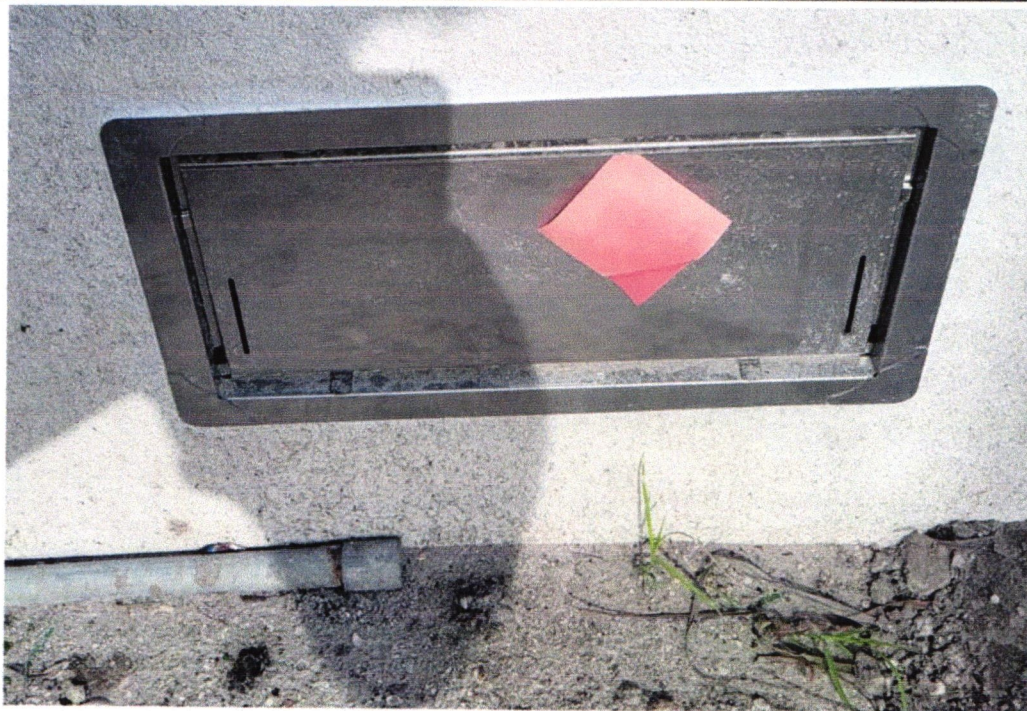


Photo Four

Photo Four Caption Vent 4 (02/08/2023)

Clear Photo Four

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BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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City Longboat Key	State Florida	ZIP Code 34228	Company NAIC Number

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Photo One

Photo One Caption Vent 5 (02/08/2023)

Clear Photo One



Photo Two

Photo Two Caption Vent 6 (02/08/2023)

Clear Photo Two

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Photo Three

Photo Three Caption Vent 6 & 7 (02/08/2023)

Clear Photo Three



Photo Four

Photo Four Caption Vents 8 & 9 (02/08/2023)

Clear Photo Four

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TOWN OF LONGBOAT KEY
Planning, Zoning & Building

FLORIDA LIFTS, LLC
 PO BOX 740708
 BOYNTON BEACH, FL 33474-0708

Project Invoice

Phone: (800) 989-3237 - Fax: (561) 600-1968
 Email: Info@FloridaLifts.com

Date
3/16/2023

Invoice #
67448

Bill To:

THE PRESERVE AT LONGBOAT KEY LLC
 595 BAY ISLES DR STE 120-C

 LONGBOAT KEY, FL 34288

Service Location:

WALSH RESIDENCE
 6820 LONGBOAT DRIVE S

 LONGBOAT KEY, FL 34228

Customer#
5884

Customer PO
FLA22-039

Work Order#
50187

Terms
Due on receipt

Date Due
3/16/2023

Type	Description	Unit Amount	Total
Misc	\$8,400.00 DUE UPON DELIVERY AN DPRIOR TO THE COMMENCEMENT OF THE INSTALLATION OF ONE RESIDENTIAL ELEVATOR PER AGREEMENT	\$8,400.00	\$8,400.00

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 TOWN OF LONGBOAT KEY
 Planning, Zoning & Building

Thank You	Subtotal:	\$8,400.00
	Retainage:	\$0.00
	Tax:	\$0.00
	Amt Paid:	\$0.00
	Amt Due:	\$8,400.00



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ICC-ES Evaluation Report

ESR-2074

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Reissued 02/2023

This report is subject to renewal 02/2025.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520;
#1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514
FLOOD VENT SEALING KIT #1540-526

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TOWN OF LONGBOAT KEY
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"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"



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ICC-ES Evaluation Report ESR-2074

Reissued February 2023

This report is subject to renewal February 2025.

DIVISION: 08 00 00—OPENINGS
Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

**SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:
MODELS #1540-520; #1540-521; #1540-510; #1540-511;
#1540-570; #1540-574; #1540-524; #1540-514
FLOOD VENT SEALING KIT #1540-526**

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2021 and 2018 *International Energy Conservation Code*® (IECC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

The Smart Vent® units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent® FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing

the door to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with 1/4-inch-by-1/4-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs described in this report do not offer natural ventilation.

3.4 Flood Vent Sealing Kit:

The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21 – 2-inch-by-2-inch (51 mm x 51 mm) squares cut in it. See Figure 4.

4.0 DESIGN AND INSTALLATION

4.1 SmartVENT® and FloodVENT®:

SmartVENT® and FloodVENT® are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m²) of enclosed area, except that the SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m²) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.

4.2 Flood Vent Sealing Kit

The Flood Vent Sealing Kit Model 1540-526 is used in conjunction with FloodVENT® Model #1540-520. When installed and tested in accordance with ASTM E283, the FV and Flood Vent Sealing Kit assembly have an air leakage rate of less than 0.2 cubic feet per minute per lineal foot (18.56 l/min per lineal meter) at a pressure differential of 1 pound per square foot (50 Pa) based on 12.58 lineal feet (3.8 lineal meters) contained by the Flood Vent Sealing Kit.

5.0 CONDITIONS OF USE

The Smart Vent® FVs described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The Smart Vent® FVs must be installed in accordance with this report, the applicable code and the

manufacturer’s installation instructions. In the event of a conflict, the instructions in this report govern.

- 5.2 The Smart Vent® FVs must not be used in the place of “breakaway walls” in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC3084), dated August 2015 (editorially revised February 2021).
- 6.2 Test report on air infiltration in accordance with ASTM E283.

7.0 IDENTIFICATION

- 7.1 The Smart VENT® models and the Flood Vent Sealing Kit described in this report must be identified by a label bearing the manufacturer’s name (Smartvent Products, Inc.), the model number, and the evaluation report number (ESR-2074).
- 7.2 The report holder’s contact information is the following:

SMART VENT PRODUCTS, INC.
 19 MANTUA ROAD
 MOUNT ROYAL, NEW JERSEY 08061
 (877) 441-8368
www.smartvent.com
info@smartvent.com

TABLE 1—MODEL SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT®	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570	14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	200
SmartVENT® Stacker	1540-511	16" X 16"	400
FloodVent® Stacker	1540-521	16" X 16"	400

For SI: 1 Inch = 25.4 mm; 1 square foot = m²

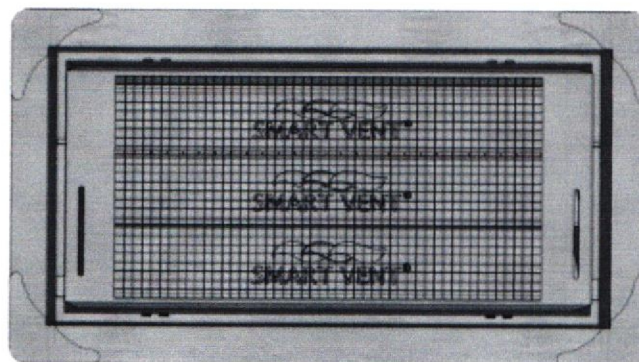


FIGURE 1—SMART VENT: MODEL 1540-510



ICC-ES Evaluation Report ESR-2074

Reissued February 2023

This report is subject to renewal February 2025.

DIVISION: 08 00 00—OPENINGS
Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

**SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:
MODELS #1540-520; #1540-521; #1540-510; #1540-511;
#1540-570; #1540-574; #1540-524; #1540-514
FLOOD VENT SEALING KIT #1540-526**

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code®* (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code®* (IRC)
- 2021 and 2018 *International Energy Conservation Code®* (IECC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

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3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent® FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing

the door to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with 1/4-inch-by-1/4-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs described in this report do not offer natural ventilation.

3.4 Flood Vent Sealing Kit:

The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21 – 2-inch-by-2-inch (51 mm x 51 mm) squares cut in it. See Figure 4.

4.0 DESIGN AND INSTALLATION

4.1 SmartVENT® and FloodVENT®:

SmartVENT® and FloodVENT® are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent® FVs must be installed as follows:

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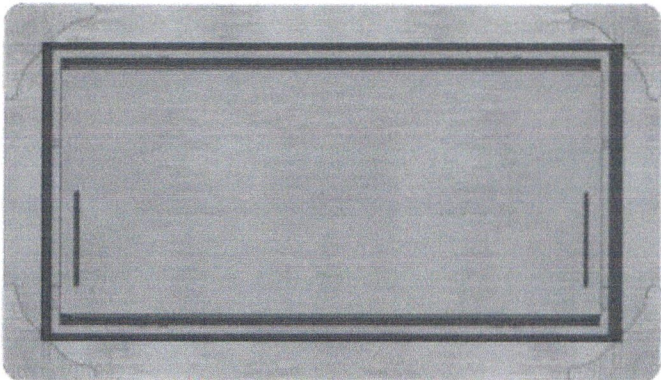


FIGURE 2—SMART VENT MODEL 1540-520

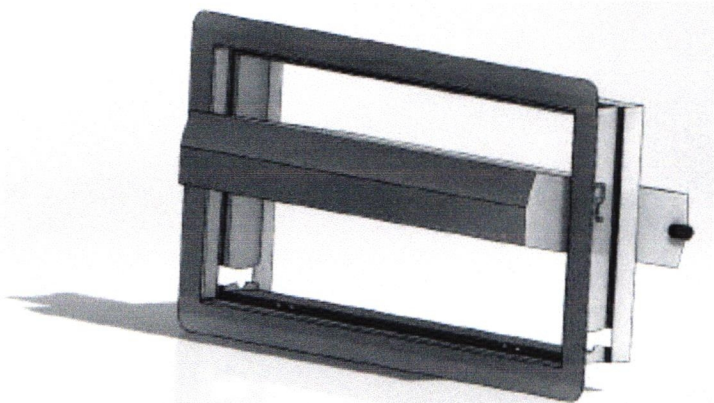


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

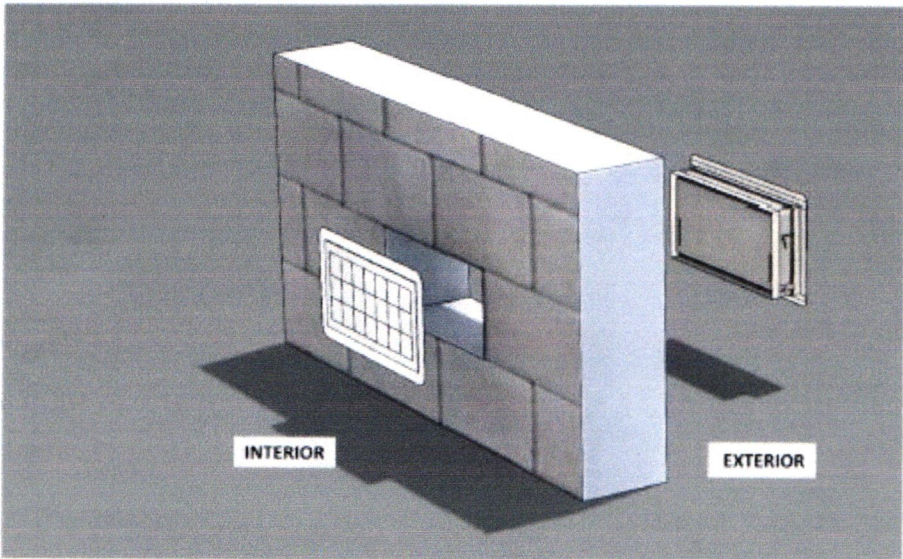


FIGURE 4—FLOOD VENT SEALING KIT

DIVISION: 08 00 00—OPENINGS**Section: 08 95 43—Vents/Foundation Flood Vents****REPORT HOLDER:****SMART VENT PRODUCTS, INC.****EVALUATION SUBJECT:****SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514
FLOOD VENT SEALING KIT #1540-526****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, described in ICC-ES evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code editions:

- 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 California Residential Code (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with 2019 CBC Chapter 12, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 18, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the 2019 CRC, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued February 2023.



ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2023

This report is subject to renewal February 2025.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514
FLOOD VENT SEALING KIT #1540-526

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, described in ICC-ES evaluation report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 Florida Building Code—Building
- 2020 Florida Building Code—Residential

2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design requirements are determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-2074 for 2018 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the Smart Vent® Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential*.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued February 2023.

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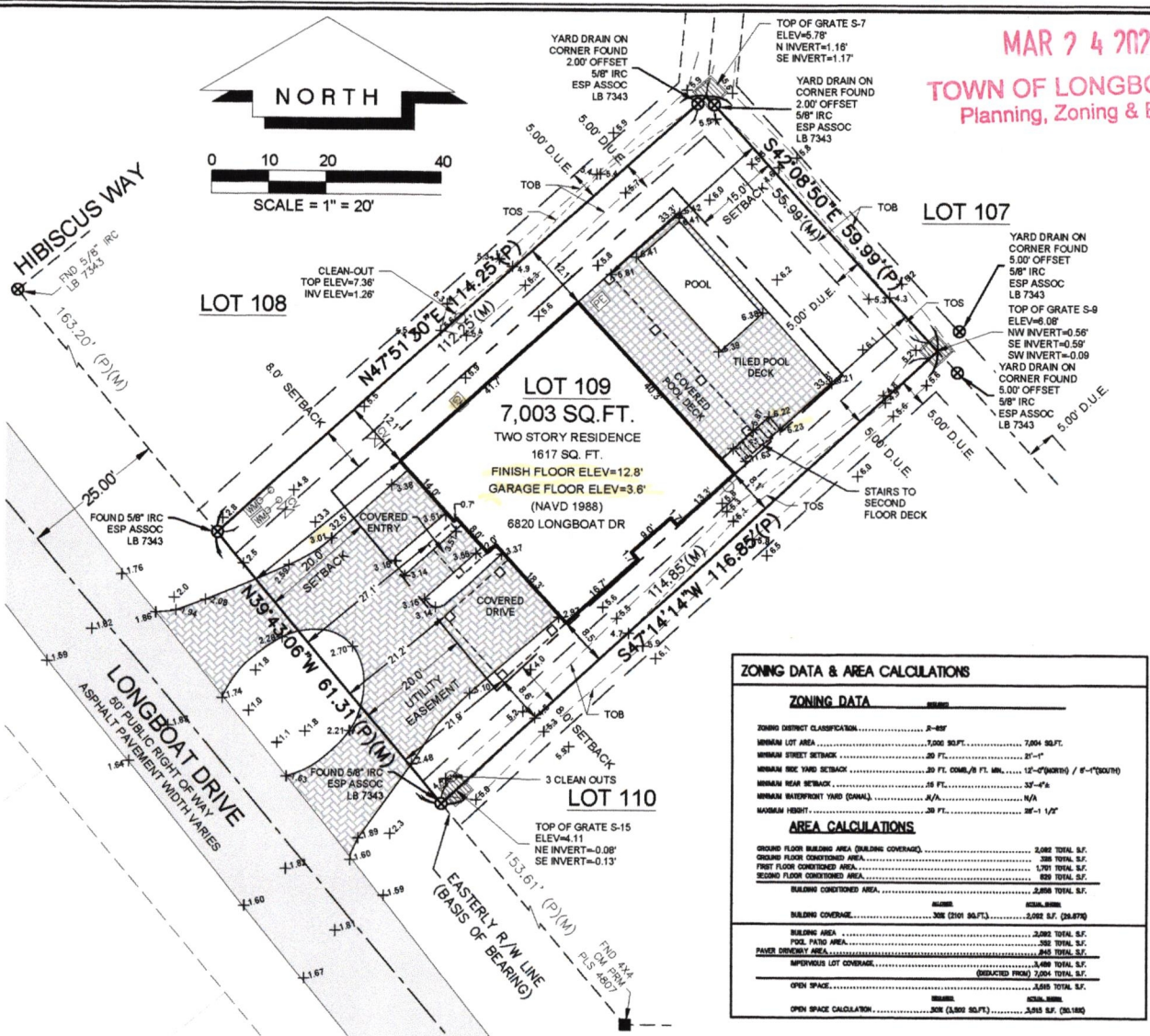
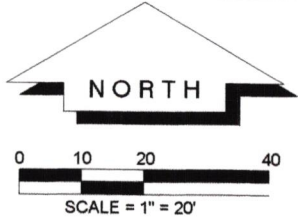


RECEIVED

MAR 24 2023

TOWN OF LONGBOAT KEY
Planning, Zoning & Building

FINAL AS-BUILT SURVEY
OF
LOT 109, THE PRESERVE AT LONGBEACH,
LONGBOAT KEY, MANATEE COUNTY, FLORIDA.



LEGEND:

●	FND IRON PIPE (IP)	PG.	PAGE	D.U.E.	DRAINAGE & UTILITY EASEMENT
○	SET IRON ROD & CAP (IRC)	○	BACK FLOW PREVENTER	(M)	MEASURED
○	LB 7343	○	CLEAN-OUT	(P)	PLAT
⊗	FND IRON ROD & CAP (IRC)	■	STORM DRAINAGE GRATE INLET	SQ.FT.	SQUARE FEET
⊙	(ND) NAIL AND DISK FND	CM	GAS METER	ASPH	ASPHALT
■	4"x4" CONCRETE MONUMENT (CM) FND	ICV	IRRIGATION CONTROL VALVE	CONC	CONCRETE
FND	FOUND	PE	POOL EQUIPMENT	PAVR	PAVER
LB	LICENSED BUSINESS	WM	WATER METER	ELEV	ELEVATION TOP OF STEM WALL
PLS	PROFESSIONAL LICENSED SURVEYOR				

LEGAL DESCRIPTION:
LOT 109, THE PRESERVE AT LONGBEACH, AS RECORDED IN PLAT BOOK 63, PAGE 39 AND 40 OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.
CONTAINING 7,003 SQUARE FEET OR 0.16 ± ACRES.

- SURVEYOR'S REPORT AND NOTES:
1. THE PURPOSE FOR THIS SURVEY IS TO DEPICT THE AS-BUILT CONDITIONS FOR LOT 109 OR 6620 LONGBOAT DRIVE, BASED ON A FIELD SURVEY PERFORMED BY THIS OFFICE, DATED 02/08/2023. BOUNDARY INFORMATION SHOWN HEREON TAKEN FROM PLAT BOOK 63, PAGE 39, MANATEE COUNTY PUBLIC RECORDS.
 2. BEARINGS ARE BASED ON THE PRESERVE AT LONGBEACH, PLAT BOOK 63, PAGES 39 AND 40, THE EASTERLY RIGHT OF WAY OF LONGBOAT DRIVE BEING N39°43'08"W.
 3. UNDERGROUND FOUNDATIONS AND UTILITIES WERE NOT LOCATED AS A PART OF THIS SURVEY, UNLESS OTHERWISE SHOWN.
 4. NORTH-SOUTH & EAST-WEST TIES TO FOUND MONUMENTATION AND IMPROVEMENTS ARE BASED ON CARDINAL DIRECTION.
 5. THIS PROPERTY LIES IN FLOOD ZONE "AE" (EL 9) AS PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM); MAP NUMBER 12081C0316E, EFFECTIVE DATE: MARCH 17, 2014.
 6. ACCORDING TO THE NEW PUBLISHED FEMA MAPS, THIS PROPERTY NOW LIES IN FLOOD ZONE "AE" (EL 8) AS PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM); MAP NUMBER 12081C0291F EFFECTIVE DATE: AUGUST 10, 2021.
 7. ALL BEARINGS AND/OR DISTANCES SHOWN HEREON ARE PLATTED DIMENSIONS UNLESS OTHERWISE NOTED.
 8. ALL EASEMENTS AND ENCUMBRANCES SHOWN ARE PER THE PRESERVE AT LONGBEACH AS RECORDED IN PLAT BOOK 63 PAGES 39 AND 40 OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.
 9. ACCURACY:
HORIZONTAL: HORIZONTAL DATA SHOWN HEREON IS BASED ON UTILIZING A GPS SYSTEM AND LENGEMANN NETWORK USING CONUS 83 AND NAD 83/90 ADJUSTMENTS. HORIZONTAL ACCURACY CONFORMS TO URBAN ACCURACY AND IS SHOWN IS 1 FOOT IN 10000. THE EXPECTED HORIZONTAL ACCURACY IN POSITION IS 0.08".
 10. MINIMUM BUILDING SETBACK REQUIREMENTS PER PLAT ARE: 20' FRONT; 8' SIDE; 15' REAR.

ZONING DATA & AREA CALCULATIONS

ZONING DATA	
ZONING DISTRICT CLASSIFICATION	R-887
MINIMUM LOT AREA	7,000 SQ.FT. 7,004 SQ.FT.
MINIMUM STREET SETBACK	20 FT. 27'-1"
MINIMUM REAR SETBACK	20 FT. COMB./8 FT. MIN. 12'-0"(REAR) / 8'-1"(SIDE)
MINIMUM FRONT SETBACK	15 FT. 33'-4"
MINIMUM WATERFRONT YARD (CANAL)	N/A
MINIMUM HEIGHT	20 FT. 28'-1 1/2"
AREA CALCULATIONS	
GROUND FLOOR BUILDING AREA (BUILDING COVERAGE)	2,082 TOTAL S.F.
GROUND FLOOR COVERED AREA	388 TOTAL S.F.
FIRST FLOOR COVERED AREA	1,701 TOTAL S.F.
SECOND FLOOR COVERED AREA	690 TOTAL S.F.
BUILDING COVERED AREA	2,490 TOTAL S.F.
BUILDING COVERAGE	308 (2101 SQ.FT.) 2,082 S.F. (28.87%)
BUILDING AREA	2,082 TOTAL S.F.
POOL PATIO AREA	282 TOTAL S.F.
PAVER COVERED AREA	690 TOTAL S.F.
IMPERVIOUS LOT COVERAGE	3,450 TOTAL S.F. (RETRACTED FROM) 7,004 TOTAL S.F.
OPEN SPACE	3,554 TOTAL S.F.
OPEN SPACE CALCULATION	308 (2101 SQ.FT.) 3,450 S.F. (26.18%)

TITLE: FINAL AS-BUILT SURVEY
OF
LOT 109, THE PRESERVE AT LONGBEACH,
LONGBOAT KEY, MANATEE COUNTY, FLORIDA

LOCATION: SECTION 15, TOWNSHIP 35 SOUTH, RANGE 18 EAST

ESP ASSOCIATES FL, INC.
518 13TH ST. W.
BRADENTON, FLORIDA 34205
PHONE: 941-346-6451
WWW.ESPASSOCIATES.COM

PROFESSIONAL SURVEYORS AND MAPPERS
LB #7343

FIELD DATE: 02/08/2023
FIELD BOOK: N/A
PROJECT No.: GR01 800.009
PROJECT MANAGER: WJS
DRAWN BY: RLW
CHECKED BY: TS
CADD FILE: LOT 109
SCALE: 1" = 20'

CERTIFIED TO:
Elevation Development Partners, LLC a
Florida limited liability company; Preserve at
Longbeach, LLC, a Florida limited liability
company; Old Republic National Title
Insurance Company; Williams, Parker,
Harrison, Dietz & Getz; USAMeritBank

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS BOUNDARY SURVEY MEETS THE APPLICABLE STANDARDS OF PRACTICE FOR LAND SURVEYING AS SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 65-17, PURSUANT TO SECTION 473.027, FLORIDA STATUTES.

WALTER J. SMITH
FLORIDA CERTIFICATE NO. 48277
02/24/2023

SURVEY VALID ONLY TO THE DATE OF FIELD SURVEY AND THE DATE OF SIGNATURE AND ORIGINAL PAPER SET OF FLORIDA LICENSED SURVEYING MAPPER