U.S. DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

National Flood Insurance Program

OMB No. 1660-0008

Expiration Date: November 30, 2022

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.

A1. Building Owner's Name Amanda Erickson A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number:			
Box No. 60 Road 2929			
City State ZIP Code Aztec New Mexico 87410			
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 56 Villa de Animas Subdivision			
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential			
A5. Latitude/Longitude: Lat. 36.849650 Long107.982500 Horizontal Datum: NAD 1927 X NAD 19	83		
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.			
A7. Building Diagram Number8_			
A8. For a building with a crawlspace or enclosure(s):			
a) Square footage of crawlspace or enclosure(s)1604.00 sq ft			
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 9			
c) Total net area of flood openings in A8.b 1152.00 sq in			
d) Engineered flood openings? 🗵 Yes 🗌 No			
A9. For a building with an attached garage:			
a) Square footage of attached garagesq ft			
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade			
c) Total net area of flood openings in A9.b sq in			
d) Engineered flood openings?			
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION			
B1. NFIP Community Name & Community Number B2. County Name B3. State San Juan County/350064 San Juan New Mexico			
B4. Map/Panel B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood B9. Base Flood Elevation(s) Number Date Effective/ Zone(s) (Zone AO, use Base Flood Dep	th)		
35045C0730F F 08-05-2010 Revised Date 08-05-2010 A 5642.72			
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:			
☐ FIS Profile ☐ FIRM ☐ Community Determined ☒ Other/Source: Elevation Cert. 62 Road 2929 by DTF Engineerin	<u> </u>		
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988 Other/Source:			
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? 🗌 Yes 🔀 No			
Designation Date: CBRS OPA			

IMPORTANT: In these spaces, copy the corresponding in			
	nformation from Sec	tion A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or B 60 Road 2929	Bldg. No.) or P.O. Rou	te and Box No.	Policy Number:
City State	ZIP	Code	Company NAIC Number
l	Mexico 874	10	
SECTION C – BUILDING ELEV	VATION INFORMAT	TON (SURVEY RE	QUIRED)
C1. Building elevations are based on: Construction	Drawings*	ding Under Constru	ction*
*A new Elevation Certificate will be required when con	struction of the buildi	ng is complete.	
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VI Complete Items C2.a–h below according to the buildir	ng diagram specified i	n Item A7. In Puerto	
Benchmark Utilized: WGS 1984	Vertical Datum:	WGS 1984	
Indicate elevation datum used for the elevations in iter	ms a) through h) below	W.	
☐ NGVD 1929 ☑ NAVD 1988 ☐ Other/So	urce:	<u> </u>	
Datum used for building elevations must be the same	as that used for the B	FE.	Oh a shalla a sa a sa s
A Table Challeng Cook Cook Cook Cook	(lane)	5	Check the measurement used. 643.5
a) Top of bottom floor (including basement, crawlspace)	ce, or enclosure floor)		
b) Top of the next higher floor		5	647.0 🛛 feet 🗌 meters
c) Bottom of the lowest horizontal structural member	(V Zones only)		N/A feet meters
d) Attached garage (top of slab)			N/A feet meters
e) Lowest elevation of machinery or equipment service (Describe type of equipment and location in Comm	cing the building nents)		N/A feet meters
f) Lowest adjacent (finished) grade next to building (I	LAG)	5	645.6 🔀 feet 🗌 meters
g) Highest adjacent (finished) grade next to building (HAG)	5	646.4 🛛 feet 🗌 meters
h) Lowest adjacent grade at lowest elevation of deck structural support		5	
SECTION D – SURVEYOR, E	NGINEED OD ADO	PUITECT CEDTIEI	CATION
This certification is to be signed and sealed by a land surve I certify that the information on this Certificate represents n statement may be punishable by fine or imprisonment under	eyor, engineer, or arc	hitect authorized by pret the data availa	law to certify elevation information.
Were latitude and longitude in Section A provided by a lice			Check here if attachments.
3			
Certifier's Name	License Number 6580		
Certifier's Name			A. E.C.Ho
Certifier's Name Robert A. Echols, Jr., PE Title President			A. E.C.Ho.
Certifier's Name Robert A. Echols, Jr., PE Title			A. E.C.Ho.
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name			A. E.C.Holson
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc.			A. E.C.HO. S. B.J. J.
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City		ZIP Code 87401	A. E.C.HO. O. O
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City Farmington	6580 State		
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City Farmington	State New Mexico Date	87401 Telephone (505) 327-3303	Ext.
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City Farmington Signature Copy all pages of this Elevation Certificate and all attachment	State New Mexico Date LUU ts for (1) community of	87401 Telephone (505) 327-3303	Ext.
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City Farmington Signature	State New Mexico Date LUU ts for (1) community of	87401 Telephone (505) 327-3303	Ext.
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City Farmington Signature Copy all pages of this Elevation Certificate and all attachment Comments (including type of equipment and location, per Comments)	State New Mexico Date LUU ts for (1) community of	87401 Telephone (505) 327-3303	Ext.
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City Farmington Signature Copy all pages of this Elevation Certificate and all attachment Comments (including type of equipment and location, per Comments)	State New Mexico Date LUU ts for (1) community of	87401 Telephone (505) 327-3303	Ext.
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City Farmington Signature Copy all pages of this Elevation Certificate and all attachment Comments (including type of equipment and location, per Comments)	State New Mexico Date LUU ts for (1) community of	87401 Telephone (505) 327-3303	Ext.
Certifier's Name Robert A. Echols, Jr., PE Title President Company Name Cheney-Walters-Echols, Inc. Address 909 W. Apache City Farmington Signature Copy all pages of this Elevation Certificate and all attachment Comments (including type of equipment and location, per Comments)	State New Mexico Date LUU ts for (1) community of	87401 Telephone (505) 327-3303	Ext.

MPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Suite, and/or B 60 Road 2929	ldg. No.) or P.O. Rou	te and Box No.	Policy Number:	
City State Aztec New M	ZIP (Mexico 8741	Code 10	Company NAIC Number	
SECTION E – BUILDING ELEVA FOR ZONE AO	TION INFORMATIO AND ZONE A (WIT		REQUIRED)	
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 chec the highest adjacent grade (HAG) and the lowest adjacent a) Top of bottom floor (including basement,		es to show whether	r the elevation is above or below	
crawlspace, or enclosure) is b) Top of bottom floor (including basement,	2.9	⊠ feet ☐ meter	s 🗌 above or 🗵 below the HAG.	
crawlspace, or enclosure) is	1.4	✓ feet ☐ meter		
E2. For Building Diagrams 6–9 with permanent flood opening the next higher floor (elevation C2.b in the diagrams) of the building is	igs provided in Section 0.6	n A Items 8 and/or ⊠ feet □ meter		
E3. Attached garage (top of slab) is	N/A	☐ feet ☐ meter		
E4. Top of platform of machinery and/or equipment servicing the building is	N/A	☐ feet ☐ meter	s 🔲 above or 🔲 below the HAG.	
E5. Zone AO only: If no flood depth number is available, is t floodplain management ordinance? Yes No			cordance with the community's certify this information in Section G.	
SECTION F - PROPERTY OWNER (OR OWNER'S REPR	RESENTATIVE) CE	RTIFICATION	
The property owner or owner's authorized representative who community-issued BFE) or Zone AO must sign here. The sta	o completes Sections	s A, B, and E for Zo A, B, and E are cor	ne A (without a FEMA-issued or rect to the best of my knowledge.	
Property Owner or Owner's Authorized Representative's Nar Robert A. Echols, Jr., PE	me			
Address 909 W. Apache	City Farmingto		ate ZIP Code ew Mexico 87401	
Signature Sho Za	Date 9 22 2		lephone 05) 327-3303	
Comments				
			Check here if attachments.	

IMPORTANT: In these spaces, copy the corre	sponding information f	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Sui 60 Road 2929	ite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City Aztec	State New Mexico	ZIP Code 87410	Company NAIC Number
SECTIO	N G - COMMUNITY INF	ORMATION (OPTIONAL)	
The local official who is authorized by law or ord Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, enter	Certificate. Complete the	community's floodplain ma applicable item(s) and sign	nagement ordinance can complete n below. Check the measurement
G1. The information in Section C was take engineer, or architect who is authorize data in the Comments area below.)			
G2. A community official completed Section or Zone AO.	on E for a building locate	d in Zone A (without a FEM	A-issued or community-issued BFE)
G3. The following information (Items G4–C	G10) is provided for com	munity floodplain managem	ent purposes.
G4. Permit Number	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction S	Substantial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	basement)	fee	t
G9. BFE or (in Zone AO) depth of flooding at the	ne building site:	fee	t meters Datum
G10. Community's design flood elevation:		fee	t meters Datum
Local Official's Name		Title	
Community Name		Telephone	
Signature		Date	
Comments (including type of equipment and local	ation, per C2(e), if applic	cable)	
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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. 60 Road 2929			Policy Number:
City	State	ZIP Code	Company NAIC Number
Aztec	New Mexico	87410	

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.

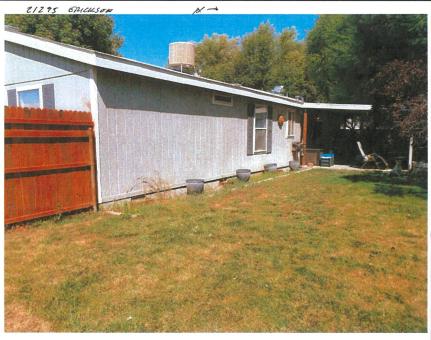


Photo One

Photo One Caption Clear Photo One



Photo Two

Photo Two Caption Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

IMPORTANT: In these spaces, copy the correspon	ding information from	n Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, at 60 Road 2929	nd/or Bldg. No.) or P.C	. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
Aztec	New Mexico	87410	
If submitting more photographs than will fit on the with: date taken; "Front View" and "Rear View"; photographs must show the foundation with represe	and, if required, "R	ight Side View" and "L	eft Side View." When applicable,
	Photo Three		
Photo Three Caption			Clear Photo Three
	Photo Four		
Photo Four Caption			Clear Photo Four

U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008

Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

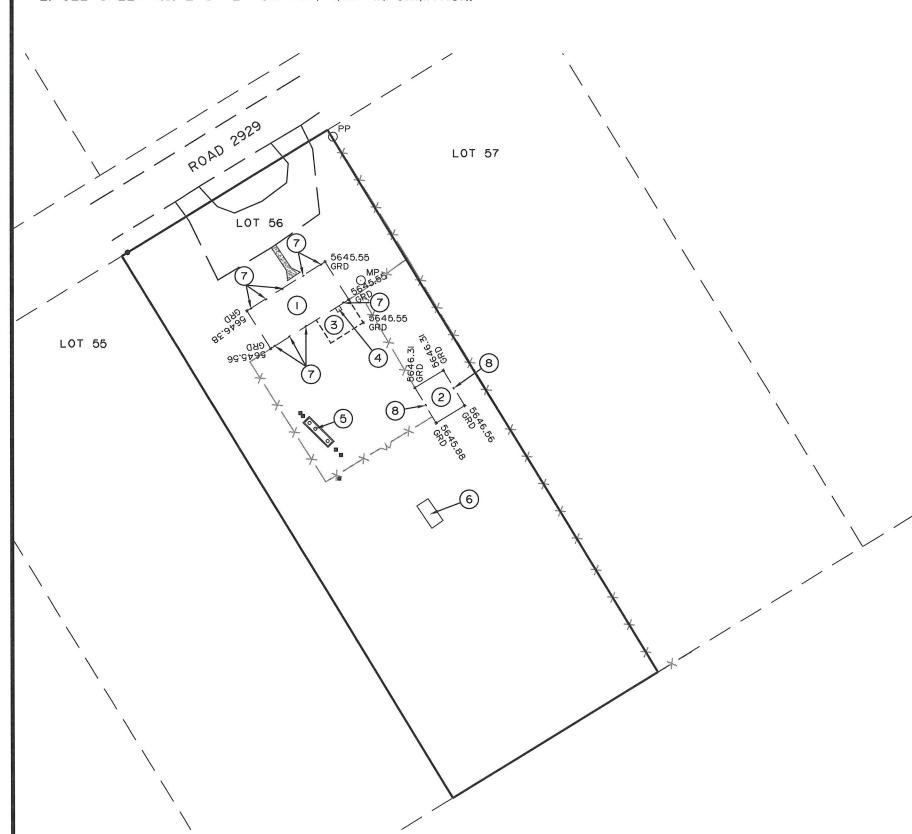
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A - PROPERTY INFORMATION FOR INSURANCE COMPANY USE						
A1. Building Owner's Name JOHN & PATTI DEDMAN Policy Number:						
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 62 ROAD 2929 Company NAIC Number:						
City State AZTEC New Mexico	ZIP Code 87410					
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Descript LOT 57 VILLA DE ANIMAS	ion, etc.)					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RE	SIDENTIAL					
A5. Latitude/Longitude: Lat. <u>36 51' 09.9"</u> Long. <u>-107 58' 49.3"</u> Ho	rizontal Datum: 🔲 NAD 1927 🗷 NAD 1983					
A6. Attach at least 2 photographs of the building if the Certificate is being used to obta	in flood insurance.					
A7. Building Diagram Number1B_						
A8. For a building with a crawlspace or enclosure(s):						
a) Square footage of crawlspace or enclosure(s) 1680.00 sq	ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within	.0 foot above adjacent grade 0					
c) Total net area of flood openings in A8.b sq in						
d) Engineered flood openings?						
A9. For a building with an attached garage:						
a) Square footage of attached garage sq ft						
b) Number of permanent flood openings in the attached garage within 1.0 foot abo	ove adjacent grade 0					
c) Total net area of flood openings in A9.b 0.00 sq in						
d) Engineered flood openings? ☐ Yes ☒ No						
SECTION B – FLOOD INSURANCE RATE MAP (FIR						
B1. NFIP Community Name & Community Number SAN JUAN COUNTY 350064 B2. County Name SAN JUAN B3. State New Mexico						
B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)					
35045C0730F F 08-05-2010 08-05-2010 A						
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: ☐ FIS Profile ☐ FIRM ☐ Community Determined ☐ Other/Source:						
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Types 🗷 No						
Designation Date: CBRS DPA						

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. 62 ROAD 2929	Policy Number:
City State ZIP Code	Company NAIC Number
AZTEC New Mexico 87410	
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY RE	EQUIRED)
C1. Building elevations are based on: Construction Drawings* Building Under Construction A new Elevation Certificate will be required when construction of the building is complete.	ction* ✓ Finished Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/A Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto	AE, AR/A1–A30, AR/AH, AR/AO. o Rico only, enter meters.
Benchmark Utilized: CORS AZCN SITE Vertical Datum: 6182.65'	
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)	343.5 🗷 feet 🦳 meters
a) Top of Society most (instanting Sections, ordinapace, or enclosure most)	646.7 🗷 feet 🗌 meters
b) Top of the flext higher hoof	
c) Bottom of the lowest horizontal structural member (V Zones only)	leet lemeters
d) Attached garage (top of slab)	feet meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	feet meters
f) Lowest adjacent (finished) grade next to building (LAG)	643.6 🗷 feet 🗌 meters
g) Highest adjacent (finished) grade next to building (HAG)	643.7 x feet meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including	
structural support	543.3 x feet ☐ meters
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFI	CATION
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by I certify that the information on this Certificate represents my best efforts to interpret the data availa statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.	law to certify elevation information. ble. I understand that any false
Were latitude and longitude in Section A provided by a licensed land surveyor?	Check here if attachments.
Certifier's Name License Number	
DANIEL T FLACK 14850	TELL ST
Title ENGINEER	THE WELLS
Company Name DTF ENGINEERING	(14850)) EE
Address PO BOX 1063	
City State ZIP Code KIRTLAND New Mexico 87417	TO ESSION
Signature Date Telephone 08-20-2019 (505) 598-5163	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) BFE AND SURVEY INFORMAITON FROM ORIGINAL EC 9-5-2008 PREPARED BY LEE EVENS,	, PLS 15513.

DETERMINED BASE FLOOD ELEVATION

- I. DATA FROM PANEL 35045C0730F REVISED AUGUST 5, 2010 IS ZONE A WITH NO DETERMINED BASE FLOOD ELEVATION.
- 2. SEE SHEET No. 2 OF 2 FOR FIRM MAP INFORMATION.



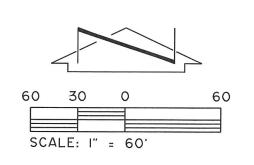
FLOOD ELEVATION CERTIFICATE
No. 60 ROAD 2929
LOT 56 OF VILLA DE ANIMAS SUBDIVISION
AZTEC, NEW MEXICO 87410
FOR
AMANDA ERICKSON

KEYED NOTES:

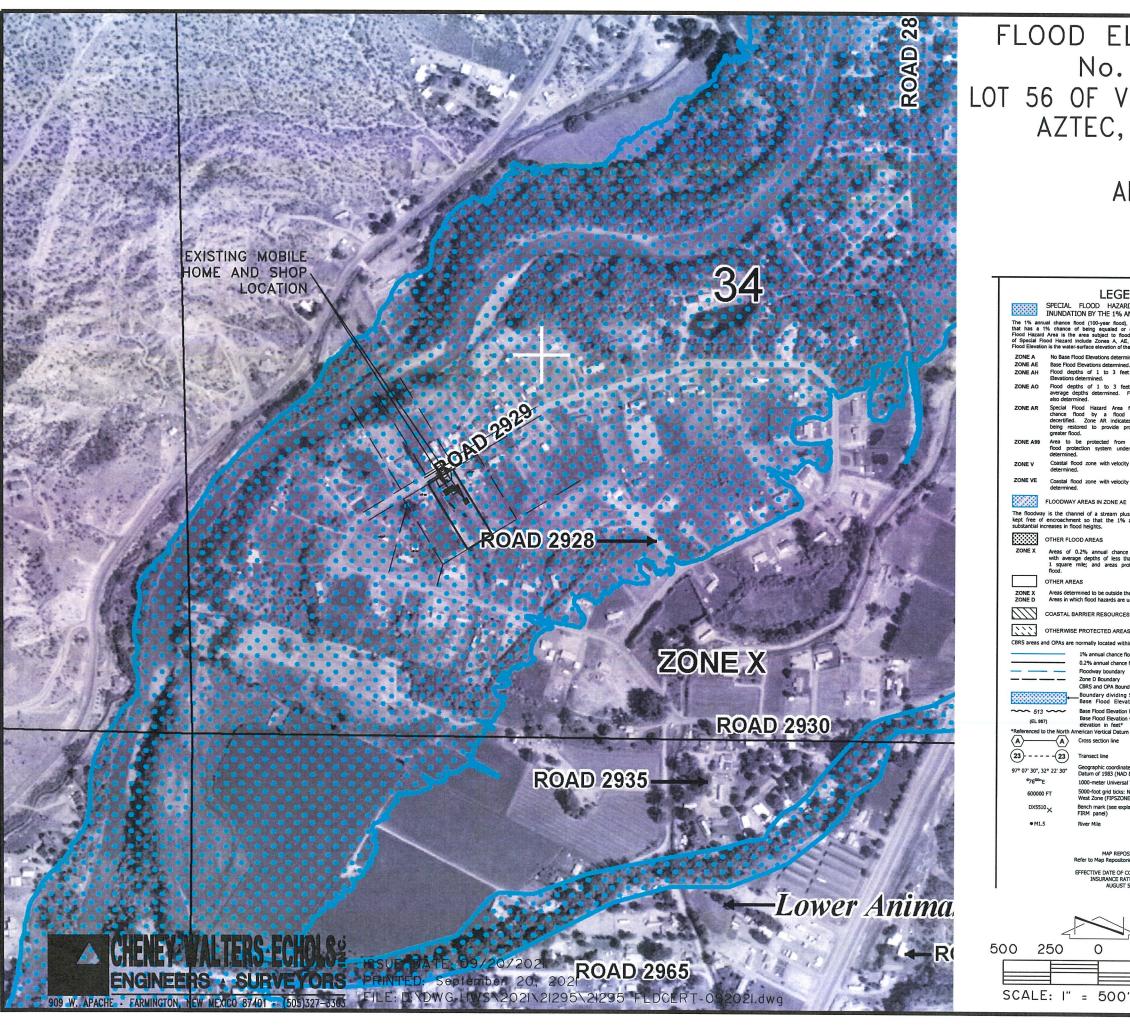
- I 1604.00 sf DOUBLE WIDE MOBILE HOME FINISH FLOOR ELEVATION = 5647.00.
- 2) 538.00 sf SITE BUILT SHOP FINISH FLOOR ELEVATION = 5646.50.
- (3) COVERED PORCH.
- (4) CRAWL SPACE ELEVATION = 5643.50.
- 5) EXISTING SEPTIC TANK ACCESS ELEVATION = 5645.53.
- (6) EXISTING SHED.
- (7) 9 EACH 8"x16" FREE AIR VENTS
 WITH INVERT ELEVATION = 5646.00
- (8) 2 EACH 8"x16" FREE AIR VENTS
 WITH INVERT ELEVATION = 5647.50.

NOTE:

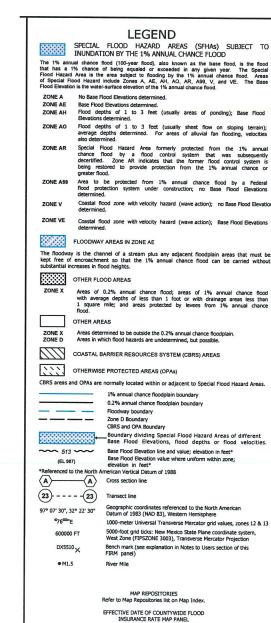
I.) TOTAL NET AREA OF FLOOD OPENING (HOME) = 1152 sq. in. 2.) TOTAL NET AREA OF FLOOD OPENING (SHOP) = 256 sq. in.







FLOOD ELEVATION CERTIFICATE No. 60 ROAD 2929 LOT 56 OF VILLA DE ANIMAS SUBDIVISION AZTEC, NEW MEXICO 87410 FOR AMANDA ERICKSON







SHEET No. 2 OF 2

500



ICC-ES Evaluation Report

ESR-4332

Reissued March 2020

This report is subject to renewal March 2022.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43-Vents / Foundation Flood Vents

REPORT HOLDER:

SMART PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

FREEDOM FLOOD VENT™ AUTOMATIC FOUNDATION FLOOD VENT: MODEL FFV-1608

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)

Properties evaluated:

- Physical operation
- Water flow
- Weathering

2.0 USES

The model FFV-1608 Freedom Flood Vent™ is used to equalize hydrostatic pressure on walls of enclosures subject to rising or falling floodwaters. With the cover removed, the model FFV-1608 also provides natural air ventilation.

3.0 DESCRIPTION

3.1 General:

The model FFV-1608 Freedom Flood Vent™ is an engineered mechanically operated in-wall flood vent (FV) that automatically allows floodwater to enter an enclosed area and exit. The FV is comprised of a polycarbonate frame with mounting flange and a polycarbonate horizontally pivoting door. When subjected to rising water, the model FFV-1608 Freedom Flood Vent™ door is activated and pivots to allow water and debris to flow in either direction to equalize hydrostatic pressure from one side of the enclosure to the other. The FV features a removable polycarbonate cover. The FV door will activate and pivot when subjected to rising water with or without the polycarbonate cover installed.

3.2 Engineered Opening:

The FV complies with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/ SEI 24-14 (2018 and 2015 IBC and IRC) [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, Freedom Flood Vent™ FVs must be installed in accordance with Section 4.0 below. See Table 1 for vent size and maximum allowable area coverage for a single vent.

4.0 DESIGN AND INSTALLATION

The model FFV-1608 Freedom Flood Vent™ is designed to be installed into walls or overhead doors of existing or new construction. Installation of the vent must be in accordance with the manufacturer's instructions, the applicable code, and this report. In order to comply with the engineered opening design principle noted in Sections 2.7.2.2 and 2.7.3 of ASCE/ SEI 24-14 (2018 and 2015 IBC and IRC) [Section 2.6.2.2 of ASCE/ SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Freedom Flood Vent™ 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 250 square feet (23.2 m2) of enclosed area.
- Below the base flood elevation.
- With the bottom of the vent located a maximum of 12 inches (305.4 mm) above the higher of the final interior grade or floor and the finished exterior grade immediately under each opening.

5.0 CONDITIONS OF USE

The Freedom Flood Vent™ described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- The model FFV-1608 Freedom Flood Vent[™] unit must be installed in accordance with this report, the applicable code and the manufacturer's published installation instructions. In the event of a conflict, the instructions in this report shall govern.
- 5.2 The model FFV-1608 Freedom Flood Vent™ unit must not be used in place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.



5.3 Use of the Freedom Flood Vent as under-floor space ventilation is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised October 2017).

7.0 IDENTIFICATION

7.1 The Freedom Flood Vent™ model recognized in this report must be identified by a label bearing the manufacturer's name (Smart Product Innovations, Inc.) and the evaluation report number (ESR-4332.).

7.2 The report holder's contact information is the following:

SMART PRODUCT INNOVATIONS, INC. 430 ANDBRO DRIVE, UNIT 1
PITMAN, NEW JERSEY 08071
(800) 507-1527
www.freedomfloodvent.com
info@freedomfloodvent.com

TABLE 1—FREEDOM FLOOD VENT™

MODEL NAME	MODEL NUMBER	MODEL SIZE	COVERAGE (sq. ft.)
Freedom Flood Vent™	FFV-1608	15³/₄" X 8¹/₁6"	250

For SI: 1 inch = 25.4 mm

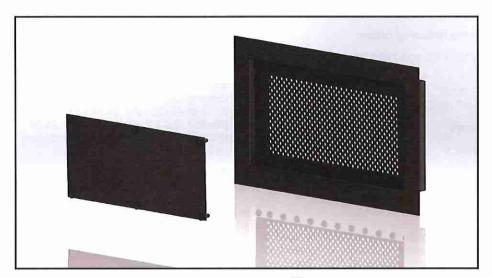


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

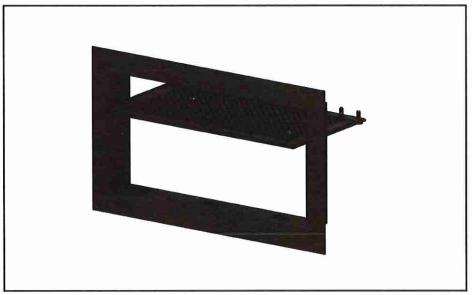


FIGURE 2—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-4332 CBC and CRC Supplement

Reissued March 2020

This report is subject to renewal March 2022.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43-Vents / Foundation Flood Vents

REPORT HOLDER:

SMART PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

FREEDOM FLOOD VENT™ AUTOMATIC FOUNDATION FLOOD VENT: MODEL FFV-1608

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, recognized in ICC-ES master evaluation report ESR-4332, has also been evaluated for compliance with codes noted below.

Applicable code edition(s):

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the master evaluation report ESR-4332, complies with CBC Chapters 12, 16 and 16A, provided the design and installation are in accordance with the 2015 *International Building Code*® (2015 IBC) provisions noted in the master report and the additional requirements of 12, 16, and 16A, as applicable.

The product recognized in this supplement has not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the master evaluation report ESR-4332, complies with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*® (2015 IRC) provisions noted in the master report.

The product recognized in this supplement has not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The product recognized in this supplement has not been evaluated for compliance with the *International Wildland–Urban Interface Code*®.

This supplement expires concurrently with the evaluation report, reissued March 2020.





ICC-ES Evaluation Report

ESR-4332 FBC Supplement

Reissued March 2020

This report is subject to renewal March 2022.

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, recognized in ICC-ES master evaluation report ESR-4332, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

2.0 CONCLUSIONS

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the master evaluation report ESR-4332, complies with the Florida Building Code-Building and the Florida Building Code-Residential, provided the design and installation are in accordance with the International Building Code® (IBC) provisions noted in the master report.

Use of the Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608 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 9N-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 March 2020.

