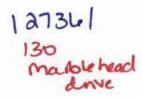
Horry County Government

Code Enforcement Department

www.horrycounty.org



Horry County Government & Justice Center 1301 Second Avenue / Suite 1D09 Conway, South Carolina 29526 Phone 843.915.5090 || Fax 843.915.6090



MEMO OF REVIEW FOR CORRECTNESS AND COMPLETION

n accordance with this community's participation in the National Flood Insurance Program's Community Rating System, all FEMA Elevation Certificates must be correct and complete. The attached Certificate has some incorrect tems which are noted here.

22. Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No. Company NAIC Number City State ZIP Code 33. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Horizontal Datum: NAD 1927 M4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	SECTION A - PROPERTY INFORM	IATION For Insurance Company Use:
City State ZIP Code 33. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)	A1. Building Owner's Name	Policy Number
33. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) 44. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box N	lo. Company NAIC Number
44. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	City State ZIP Code	V 22 N
Statudoil.ongitude: Lat	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)	
b) No. of permanent flood openings in the carw space or enclosure(s) walls within 1.0 foot above adjacent grade 0 Total net area of flood openings in A8.b b) No. of permanent flood openings in the attached parage walls within 1.0 foot above adjacent grade 0 Engineered flood openings? b) No. of permanent flood openings in the attached parage walls within 1.0 foot above adjacent grade 0 Engineered flood openings? 0 Engineered flood openings? DYes No. No. of permanent flood openings in the attached parage walls within 1.0 foot above adjacent grade 0 Engineered flood openings? DYes No. 0 Engineered flood openings? DYes No. No. of permanent flood openings in the attached parage walls within 1.0 foot above adjacent grade 0 Engineered flood openings? DYes No. 0 Engineered flood openings? DYes No. DYes No. DYes DYes 0 Engineered flood openings? DYes DYes<		irance.
a) Engineered flood openings? Yes No b) Engineered flood openings? Yes No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number B2. County Name B3. State B4. Map/Panel Number B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood Zone(s) B9. Base Flood Elevation(BFE) data or base flood depth entered in Item B9. [] FIS Profile [] FIS Profile [] FIRM [] Community Determined [] Other (Describe) [] Indicate devalion datum used for BFE in Item B9: [] NGVD 1929 [] NAVD 1988 [] Other/Source: [] Lindicate devalion datum used for BFE in Item B9: [] NGVD 1929 [] NAVD 1988 [] Other/Source: [] Designation Date [] Construction Drawings* [] Building levations are based on: [] Construction Drawings* [] Building levations are based on: [] Construction Drawings* [] Building levations are based on: [] Construction Drawings* [] Building is complete. 2. Elevation C-BUIL DING ELEVATION INFORMATION (SURVEY REQUIRED) SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) Subiding elevations are based on: [] Construction Drawings* [] Building user and the BFL, AR, AR/A, AR/AE, AR/AI-A30, AR/AH, AR/AO. Complete [] Immic 2:: An below according to the building diagram specified in Item A7. Benchmark Utilized [] Vertical Datum [] Indicate elevation datum used for the elevations in items a) through h) below. [] NGVD 1929 [] NAVD 1988 [] Other/Source: OMMENTS: Out A MARCHARA ARA [] Community Official: Out of the elevation sin items a) through h) below. [] NGVD 1929 [] NAVD 1988 [] Other/Source: Other/Source: O MONTENTS: Out A MARCHARA [] Community Official: [] Description data are an	b) No. of permanent flood openings in the crawl space or b) N enclosure(s) walls within 1.0 foot above adjacent grade	o. of permanent flood openings in the attached garage ralls within 1.0 foot above adjacent grade
B1. NFIP Community Name & Community Number B2. County Name B3. State B4. Map/Panel Number B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood B9. Base Flood Elevation(\$) (Zon AO, use base flood depth) B4. Map/Panel Number B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood AO, use base flood depth) B1. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. AO, use base flood depth) AO, use base flood depth) B1. Indicate elevation datum used for BFE in Item B9: ONFO Determined Other (Describe) Item S0. B2. Indicate elevation datum used for BFE in Item B9: INGVD 1929 NAVD 1988 Other/Source: Item S0. B2. State Indicate elevation datum used for BFE in Item B9: INGVD 1929 NAVD 1988 Other/Source: Item S0. B2. State Indicate elevation datum used for BFE in Item B9: ICENS OPA Item S0. It		
B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/Revised Date B8. Flood Zone(s) B9. Base Flood Elevation(s) (Zon A0, use base flood depth) 0. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. B1. FIS Profile FIRM Community Determined Other (Describe) 1. Indicate elevation datum used for BFE in Item B9: INGVD 1929 INAVD 1988 Other/Source: IVes 2. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? IVes IVes SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) Section Certificate will be required when construction of the building is complete. Vertical Datum Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVAD 1988 Other/Source: Other/Source: Other/Source: Other/Source: Section Certificate will be required when construction of the building is complete. Elevation Certificate will be required when construction and the max.	SECTION B - FLOOD INSURANCE RATE MAP (FIR	RM) INFORMATION
Date Date Effective/Revised Date Zone(s) AO, use base flood depth) Date Date Effective/Revised Date Zone(s) AO, use base flood depth) D. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. AD, use base flood depth) D. Indicate levation datum used for BFE in Item B9: ON ONLY DETERMINED Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: Image: Community Determined Other (Describe) Image: Community Determined Image: Community Determined Other (Describe) Image: Community Determined		
FIS Profile FIRM Community Determined Other (Describe) 1. Indicate elevation datum used for BFE in Item 89: NGVD 1929 NAVD 1988 Other/Source: 2. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes Designation Date CBRS OPA SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) Building elevations are based on: Construction Drawings* Building Under Construction* Flinshed *A new Elevation Certificate will be required when construction of the building is complete 2. 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+ below according to the building diagram specified in Item A7. Benchmark Utilized	by wept and thinks bot both the most	
Building elevations are based on: Construction Drawings* Building Under Construction* Finished *A new Elevation Certificate will be required when construction of the building is complete. 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. Benchmark Utilized Vertical Datum Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVD 1988 Other/Source: OMMENTS: Put NIA MA AP eate of Review: 1-224-222 Community Official: Durundly Official: Durundly Official:	1. Indicate elevation datum used for BFE in Item B9:	Other/Source:
Building develops are based on. □ construction of the building is complete. A new Elevation Certificate will be required when construction of the building is complete. 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. Benchmark Utilized Vertical Datum Indicate elevation datum used for the elevations in items a) through h) below. □ NGVD 1929 □ NAVD 1988 □ Other/Source: OMMENTS: PLF NIA NIA API ate of Review: 1-24-22 Community Official Output: Official	SECTION C - BUILDING ELEVATION INFORMATION	(SURVEY REQUIRED)
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. Benchmark Utilized	nstruction	er Construction*
Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVD 1988 Other/Source:	 Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/A Items C2.a-h below according to the building diagram specified in Item A7. 	E, AR/A1-A30, AR/AH, AR/AO. Complete
OMMENTS: put NA in Ag- Tate of Review: 1-24-22 Community Officiale David CFM	Benchmark Utilized Verical Batom	
ate of Review: 1-24-22 Community Official author CFM	Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929	NAVD 1988 Other/Source:
ate of Review: 1-24-22 Community Officiale Jaulto CFM		
	OMMENTS: OUT NIA in A9.	
	Date of Review: 1-24-22 Community Official	millo CFM

127361 1-20-2021 RMLEU: 22

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

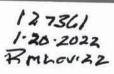
1.0

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OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE Important: Follow the instructions on pages 1–9.

A1. Building Owner	SECTION A - PROP	PERTY INFORM	NATION		FOR INSUF	RANCE COMPANY US
CK CARR BROTHE					Policy Num	A CONTRACTOR OF A CONTRACT OF
A2. Building Street / Box No. 130 MARBLEHEAD	Address (including Apt., Un DRIVE	iit, Suite, and/or	Bldg. No.) o	P.O. Route and	Company N	AIC Number:
City			State		ZIP Code	and the second second
LITTLE RIVER			South Ca		29566	
A3. Property Descri UNIT 19 CAPE COD	otion (Lot and Block Number COTTAGE @ MARKER 3	ers, Tax Parcel 850	Number, Leg	al Description, et	c.)	
A4. Building Use (e.	g., Residential, Non-Reside	ential, Addition,	Accessory, e	tc.) RESIDEN	TIAL	
A5. Latitude/Longitu	de: Lat. 33D51'11.456"	Long. 78	D39'24 314"	Horizonta	Datum: NAD 1	927 🗙 NAD 1983
A6. Attach at least 2	photographs of the buildin	if the Certifica	ate is being u	sed to obtain floor	d insurance.	80.74
A7. Building Diagram			5			
A8. For a building w	th a crawlspace or enclosu	ure(s):				
	ge of crawlspace or enclos		1	144.00 S0 ft		
	rmanent flood openings in				about adiacost acc	ida 6
					above aujacent gra	
	a of flood openings in A8.b		230.00 sq in			
d) Engineered t	ood openings? X Yes	No No				
A9. For a building wi	h an attached garage:					
a) Square foota	ge of attached garage		sq ft			
	rmanent flood openings in			0 foot above adi	acent grade	
				4 ID		
	of flood openings in A9.b	76.22	sq	10		
d) Engineered fi	ood openings? Ves	No No				
	SECTION B - FL		CIPTURE I		ORMATION	
B1. NFIP Community	V Name & Community Num 50104	iber	B2. County I HORRY CO			B3. State South Carolina
	and the second se	ex B7. FIR	M Panel	B8. Flood	B9. Base Flood E	
HORRY COUNTY 4	B5. Suffix B6. FIRM Inde Date	Effe	ctive/	Zone(s)		levation(s) e Base Flood Depth)
HORRY COUNTY 4 4. Map/Panel Number		Effe	ctive/ ised Date	Zone(s) AE		
HORRY COUNTY 4 4. Map/Panel Number 5051C0606K	Date	Effe Rev 12-16-2	ctive/ ised Date 021	AE	(Zone AO, usi	
HORRY COUNTY 4 4. Map/Panel Number 5051C0606K B10. Indicate the so	Date K 12-16-2021	Vation (BFE) da	ctive/ ised Date 021 ita or base flo	AE nod depth entered	(Zone AO, usi	
HORRY COUNTY 4 4. Map/Panel Number 5051C0606K B10. Indicate the so □ FIS Profile	K 12-16-2021 urce of the Base Flood Ele	vation (BFE) da	ctive/ ised Date 021 ita or base flo] Other/Sour	AE bod depth entered	(Zone AO, usi	
HORRY COUNTY 4 4. Map/Panel Number 5051C0606K B10. Indicate the so FIS Profile B11. Indicate elevat	K 12-16-2021 urce of the Base Flood Ele	vation (BFE) da Determined [Item B9:] NO	ctive/ ised Date 021 ita or base fic] Other/Soul GVD 1929 [AE bod depth entered rce: NAVD 1988	(Zone AO, usi 10 in Item B9:	e Base Flood Depth)
HORRY COUNTY 4 4. Map/Panel Number 5051C0606K B10. Indicate the so □ FIS Profile B11. Indicate elevat	Date 12-16-2021 Urce of the Base Flood Ele FIRM Community on datum used for BFE in located in a Coastal Barrier	vation (BFE) da Determined [Item B9:] N(r Resources Sy	ctive/ ised Date 021 ita or base fic] Other/Soul GVD 1929 [AE bod depth entered rce: NAVD 1988	(Zone AO, usi 10 in Item B9:	e Base Flood Depth)



	the corresponding information from	Section A	1	e: November 30, 2	
uilding Street Address (including Apt	., Unit, Suite, and/or Bldg. No.) or P.O	Route and Box No.	FOR INSURANCE COMPANY U Policy Number:		
30 MARBLEHEAD DRIVE		Noule and box No.	Folicy Number	6	
ity	State	ZIP Code	Company NAI	C Number	
TTLE RIVER	South Carolina	29566			
SECTION	C - BUILDING ELEVATION INFOR	MATION (SURVEY F	REQUIRED)		
C1. Building elevations are based or	n: Construction Drawings*	Building Under Const		nished Constructio	
	be required when construction of the			isned Constructio	
C2. Elevations – Zones A1–A30, AE Complete Items C2.a–h below a	, AH, A (with BFE), VE, V1–V30, V (w ccording to the building diagram spec	ith BEE) AR AR/A AR	R/AE, AR/A1-A30), AR/AH, AR/AO. er meters	
Benchmark Utilized: SC VRS		tum: NAVD 1988			
Indicate elevation datum used fo	r the elevations in items a) through h)	below.		-	
	D 1988 Other/Source:				
	ns must be the same as that used for	the BFE.			
2) Top of bottom floor (includio			The same second to a local second	measurement use	
	basement, crawlspace, or enclosure	floor)	9.5 × fee	t i meters	
 b) Top of the next higher floor 			19.9 🗙 fee	t meters	
 c) Bottom of the lowest horizont 	al structural member (V Zones only)		N/A fee	t 🗌 meters	
 d) Attached garage (top of slab) 	1		N/A X fee	t meters	
 e) Lowest elevation of machiner (Describe type of equipment) 	y or equipment servicing the building and location in Comments)		11.3 X fee	t 🗌 meters	
f) Lowest adjacent (finished) gra	ade next to building (LAG)		8.7 🗙 fee	t meters	
g) Highest adjacent (finished) gr	rade next to building (HAG)		9.1 🔀 fee	t 🗆 meters	
	est elevation of deck or stairs, including	ng	N/A 🔀 fee	t 🗆 meters	
1.2	D - SURVEYOR, ENGINEER, OR	APCHITECT CEPTI			
his certification is to be signed and s certify that the information on this Co tatement may be punishable by fine	sealed by a land surveyor, engineer, o ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surve	Section 1001	lable. I understan	d that any false	
his certification is to be signed and s certify that the information on this Co tatement may be punishable by fine lere latitude and longitude in Section	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surve	interpret the data avail Section 1001. Jor? Xes No	lable. I understan	levation informatio d that any false here if attachments	
his certification is to be signed and s certify that the information on this Co tatement may be punishable by fine	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surver License Number	interpret the data avail Section 1001. Jor? Xes No	lable. I understan	d that any false	
his certification is to be signed and s certify that the information on this Ce tatement may be punishable by fine lere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surve	interpret the data avail Section 1001. Jor? Xes No	lable. I understan	d that any false	
his certification is to be signed and s certify that the information on this Ce tatement may be punishable by fine lere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT itle	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surver License Number	interpret the data avail Section 1001. Jor? Xes No	lable. I understan	d that any false	
his certification is to be signed and s certify that the information on this C atement may be punishable by fine lere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT tle LS	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surver License Number	interpret the data avail Section 1001. Jor? Xes No	lable. I understan	d that any false	
his certification is to be signed and s certify that the information on this Co atement may be punishable by fine /ere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT tte LS ompany Name	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surver License Number	interpret the data avail Section 1001. Jor? Xes No	lable. I understan	d that any false	
his certification is to be signed and s certify that the information on this Ce atement may be punishable by fine /ere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT ttle LS ompany Name ITE SURVEYING, LLC ddress	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surver License Number	interpret the data avail Section 1001. Jor? Xes No	Check h	d that any false	
his certification is to be signed and s certify that the information on this Ce atement may be punishable by fine /ere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT ttle LS ompany Name ITE SURVEYING, LLC ddress	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surver License Number	interpret the data avail Section 1001. Jor? Xes No	Check h	d that any false	
his certification is to be signed and s certify that the information on this Co atement may be punishable by fine /ere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT ttle LS ompany Name ITE SURVEYING, LLC ddress 11 WHITE OAK FOREST PLACE ity	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, in A provided by a licensed land survey License Number 21431 State	interpret the data avail Section 1001. Jor? Xes No	lable. I understan	d that any false	
his certification is to be signed and s certify that the information on this Co atement may be punishable by fine /ere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT ttle LS ompany Name ITE SURVEYING, LLC ddress 11 WHITE OAK FOREST PLACE ity	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, n A provided by a licensed land surver License Number 21431	interpret the data avail Section 1001. /or? ⊠Yes □No	Check h	d that any false	
his certification is to be signed and s certify that the information on this C latement may be punishable by fine /ere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT itle LS ompany Name ITE SURVEYING, LLC ddress 11 WHITE OAK FOREST PLACE ity ONWAY	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, in A provided by a licensed land survey License Number 21431 State	interpret the data avail Section 1001. /or? ⊠Yes □No ZIP Code	Check h	d that any false	
his certification is to be signed and s certify that the information on this Ce tatement may be punishable by fine lere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT itle LS ompany Name ITE SURVEYING, LLC ddress 11 WHITE OAK FOREST PLACE ity ONWAY	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, in A provided by a licensed land survey License Number 21431 State South Carolina Date 01-05-2022	Interpret the data avail Section 1001. Jor? ⊠Yes □No ZIP Code 29527 Telephone (843) 397-8000	Ext.	d that any false here if attachments	
his certification is to be signed and s certify that the information on this Cr tatement may be punishable by fine Vere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT itle LS ompany Name ITE SURVEYING, LLC ddress 11 WHITE OAK FOREST PLACE ity ONWAY ignature	ertificate represents my best efforts to or imprisonment under 18 U.S. Code, in A provided by a licensed land survey License Number 21431 State South Carolina Date 01-05-2022 ate and all attachments for (1) commun	Interpret the data avail Section 1001. (or? ⊠Yes □No ZIP Code 29527 Telephone (843) 397-8000 ity official, (2) insurance	Ext.	d that any false here if attachments	
his certification is to be signed and s certify that the information on this Cratement may be punishable by fine /ere latitude and longitude in Section ertifier's Name ACQUES J. BONNETT tte LS ompany Name ITE SURVEYING, LLC ddress 11 WHITE OAK FOREST PLACE ity ONWAY ignature opy all pages of this Elevation Certific comments (including type of equipme DWEST MACHINERY IS THE ELEV ENT SEE ATTACHED SHEET. THE ICHES OF OPENING TO MATCH E	State South Carolina Date 01-05-2022 ate and all attachments for (1) commun And all attachments for (1) commun ATOR MECHANICAL PLATFORM. If NET ARE OF OPENINGS IS 630 SC NGINEERED RELIEF AREA OF OPE ON FOUNDATION AND FRAMING (2)	Interpret the data avail Section 1001. (or? ⊠ Yes □ No ZIP Code 29527 Telephone (843) 397-8000 ity official, (2) insurance e) ELOOD VENTS ARE E NUARE INCHES. THE ENINGS. THIS UNIT IS	Ext.	and (3) building ow R 205 SQ FT PEFS ME PUT SQUA	

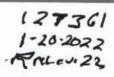
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127361 1-20-2022 BMI 00:22 10.22

ELEVATION CERTIFICATE	and the second sec			Expiration Date:	
MPORTANT: In these spaces, copy the correspondence				FOR INSURAN	ICE COMPANY US
Building Street Address (including Apt., Unit, Suite, 30 MARBLEHEAD DRIVE	and/or Bidg. No.) o	or P.O. Route and B	ox No.	Policy Number	
City LITTLE RIVER	State South Carolina	ZIP Code 29566		Company NAIC	Number
SECTION E – BUILDING FOR ZO	ELEVATION INF	ORMATION (SUR	VEY NOT	REQUIRED)	
For Zones AO and A (without BFE), complete Items complete Sections A, B,and C. For Items E1–E4, us enter meters.	E1-E5. If the Cert	ificate is intended to	support a	LOMA or LOMF ment used. In Pu	R-F request, lerto Rico only,
 Provide elevation information for the following a the highest adjacent grade (HAG) and the lowe a) Top of bottom floor (including basement, 	and check the appr est adjacent grade ((LAG).		_	
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		[] feet	meters	above or	below the HAG
crawlspace, or enclosure) is		[] feet	meters	above or	below the LAG
 For Building Diagrams 6–9 with permanent floo the next higher floor (elevation C2.b in 	od openings provide	ed in Section A Item	s 8 and/or 9	e (see pages 1-	2 of Instructions),
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
 Top of platform of machinery and/or equipment servicing the building is 	t	feet	meters	above or	below the HAG
5. Zone AO only: If no flood depth number is avai	lable is the top of t	the hettern fleer elev	unterd in acc	2 121 722	
floodplain management ordinance? Yes SECTION F – PROPERTY C		nown. The local off	icial must c	ertify this inform	
SECTION F – PROPERTY O The property owner or owner's authorized represen community-issued BFE) or Zone AO must sign here Property Owner or Owner's Authorized Representation	NO Unkr	nown. The local off ER'S REPRESENT les Sections A, B, and n Sections A, B, and	icial must c ATIVE) CE and E for Zor d E are corr	ertify this inform RTIFICATION the A (without a lect to the best of the be	FEMA-issued or of my knowledge.
SECTION F – PROPERTY O The property owner or owner's authorized represent community-issued BFE) or Zone AO must sign here Property Owner or Owner's Authorized Representation	NO Unkr	nown. The local off ER'S REPRESENT. tes Sections A. B. ar	icial must c ATIVE) CE	ertify this inform RTIFICATION the A (without a lect to the best of the be	FEMA-issued or
	NO Unkr	nown. The local off ER'S REPRESENT les Sections A, B, and n Sections A, B, and	icial must c ATIVE) CE Ind E for Zor d E are corr Sta	ertify this inform RTIFICATION the A (without a lect to the best of the be	FEMA-issued or of my knowledge.
SECTION F – PROPERTY O The property owner or owner's authorized represen community-issued BFE) or Zone AO must sign here Property Owner or Owner's Authorized Representat Address	No Unkr	er's represent. The local off Res Sections A, B, and n Sections A, B, and City	icial must c ATIVE) CE Ind E for Zor d E are corr Sta	ertify this inform RTIFICATION the A (without a lect to the best of the best of the b	FEMA-issued or of my knowledge.

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ELEVATION CERTIFICATE	OMB No. 1660-0008 Expiration Date: November 30, 201 FOR INSURANCE COMPANY US		
MPORTANT: In these spaces, copy			
Building Street Address (including Apr 130 MARBLEHEAD DRIVE	t., Unit, Suite, and/or Bldg. No.) or P	P.O. Route and Box No.	Policy Number:
	State South Carolina	ZIP Code 29566	Company NAIC Number
	SECTION G - COMMUNITY INFO	ORMATION (OPTIONAL)
The local official who is authorized by Sections A, B, C (or E), and G of this used in Items G8–G10. In Puerto Ric	Elevation Certificate. Complete the		anagement ordinance can complete gn below. Check the measurement
engineer, or architect who i data in the Comments area	below.)	ion information. (Indicate	the source and date of the elevation
or Zone AO.	eted Section E for a building located Items G4–G10) is provided for comm		MA-issued or community-issued BFE)
G3. The following information (I	items G4–G10) is provided for comin	nunity lioodplain manage	ment purposes.
G4. Permit Number	G5. Date Permit Issued	G6.	Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for	New Construction	ubstantial Improvement	
 Elevation of as-built lowest floor of the building: 	r (including basement)	fe	et 🗌 meters Datum
39. BFE or (in Zone AO) depth of fl	ooding at the building site:		et 🗌 meters Datum
G10. Community's design flood eleva		Title	eet 🗌 meters Datum
Local Official's Name		The	
Community Name		Telephone	
Signature		Date	
Comments (including type of equipm	ent and location, per C2(e), if applic	cable)	
			Check here if attachmer

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127361 1-20-2022 RmLeui22

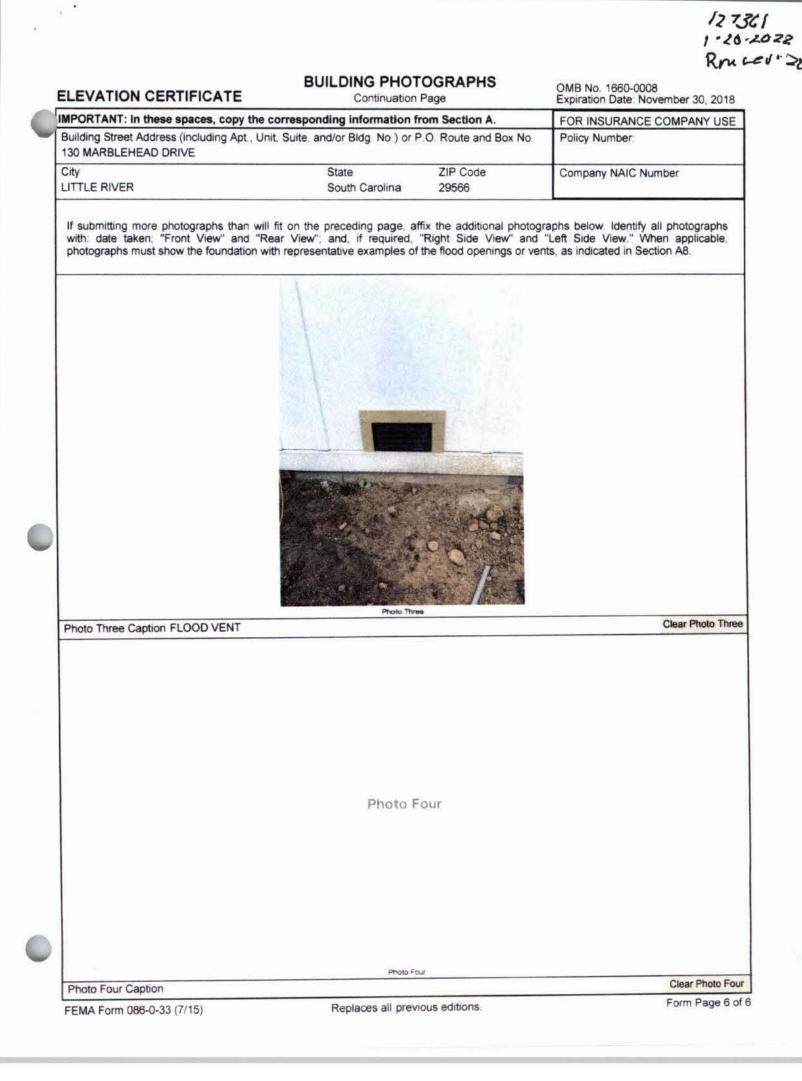


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BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 2018
IMPORTANT: In these spaces, copy the co			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit 130 MARBLEHEAD DRIVE			Policy Number:
City LITTLE RIVER	State South Carolina	ZIP Code 29566	Company NAIC Number
If using the Elevation Certificate to obta instructions for Item A6. Identify all photogr "Left Side View." When applicable, photo- vents, as indicated in Section A8. If submitt	aphs with date taken; "Front graphs must show the found	View" and "Rear View"; a dation with representative	and, if required, "Right Side View" and
	<image/>		
Photo One Caption FRONT			Clear Photo One
	Bil		
Photo Two Caption BACK	Photo Two		Clear Photo Two



127361 1-20-2022 RMLEU22

Certification of Engineered Flood Openings

In accordance with the Code of Federal Regulations for the National Flood Insurance Program

I hereby certify that the Crawl Space Door Systems flood vents 816CS, 1220CS, 1232CS, 1616CS, 1624CS, 1632CS, 2032CS, 2424CS, and 2436CS are designed are designed in accordance with the requirements of the Code of Federal Regulations for the National Flood Insurance Program (NFIP) to provide automatic equalization of hydrostatic flood forces by allowing for the entry and exit of floodwaters, when properly installed and sized as set forth below. Vent opening measurements were measured and certified by Mr. Christopher Mark Loney, Virginia P.E. NO. 029000. Detailed calculations were prepared as outlined In "Review of certification of Engineered Flood Openings," prepared by Dr. Georg Reichard, Associate Professor of Building Construction, Virginia Tech (available upon request from Crawl Space Door Systems, Inc. billy@crawlspacedoors.com)

Design Characteristics

Section 2.6.2.2 of ASCE/SEI 24-05 provides an equation to determine the required <u>net area</u> of engineered openings (A_o) for a given <u>enclosed area</u> (A_e). This equation is based on the hydraulic formula for the flow rate across sharp edged orifices. I have utilized this equation to calculate 1) the restricted flow rate through the main frame opening in case the louver is blown out during a flood event; 2) the flow rate through the individual openings between louver blades; and 3) the flow rate through projected openings between louver blades following hydraulic short-tube theory. The maximum total enclosed area (A_e) that can be serviced by a single vent has then been determined by utilizing the lowest flow rate of the three assessed scenarios for each vent and is listed in Table 1. These values are based on the following assumptions:

- In absence of reliable data, the rates of rise and fall have been assumed at a minimum rate of 5 feet/hour;
- The (maximum) difference between the exterior and interior floodwater levels shall not exceed 1 foot during base flood conditions;
- A factor of safety of 5 has been assumed, which is consistent with design practices related to protection of life and property;
- The net area of openings (A_o) as provided by the manufacturer.

Installation Requirements and Limitations

This certification will be voided if the following installation requirements and limitations are not enforced:

 There shall be a minimum of two openings on different sides of each enclosed area subject to flooding;

•)	Model	H x W [in]	A _o [in ²]	Ae [ft ²]
2	816CS	8 x 16	105	205
	1220CS	12 x 20	235	500
	1232CS	12 x 32	305	645
	1616CS	16 x 16	180	395
	1624CS	16 x 24	310	670
	1632C5	16 x 32	405	835
	2032CS	20 x 32	630	1240
	2424CS	24 x 24	570	1230
	2436CS	24 x 36	850	1765

- Table 1 Maximum total <u>enclosed</u> <u>area</u> (A_e) that can be serviced by each individual model based on the given <u>net area</u> of engineered openings (A_o)
- The bottom of all openings shall be no higher than one foot above the higher of the interior or exterior grade that is immediately under each opening;
- No temporary (e.g. during cold weather) or permanent solid cover may be placed into or over the flood vent that would block the
 automatic entry or exit of floodwaters at any time;
- Where data or analyses indicate more rapid rates of rise and fall, the required number of openings shall be increased to account
 for those different conditions. The number or size of the openings may be decreased if data or analyses indicate rates of rise and
 fall are less than 5 feet per hour.

Certifyi	ng Design Professional	TH CAROLINE
Name	Frederick Allen House	Title President HOUSE
Company	House Engineering P.C.	P.C.
Address	PO Box 466, Kitty Hawk, NC 27949	No. 3900
License	South Carolina	License No. 26841
Signature	Rult allow P.E.	Date: 11/17/2017

Identification of the Building and Installed Flood Vents (By Others)

The flood vent models marked in Table 1*) are being installed at the following building: Building Address

Spring 2012

Ver. 2.0