#### 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.

SECTION A – PROPERTY INFORMATION					FOR INSUR	ANCE COMPANY USE	
A1. Building Owner's Name  Brian and Becky McCraw  Police							per:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Nu 7 Road 2928, Aztec, NM 87410							
City Aztec				State New Mex	kico	ZIP Code 87410	
A3. Property Descripti Villa de Animas Sub. L	•	nd Block Numbers, Ta	x Parcel	Number, Leg	al Description, etc	C.)	
A4. Building Use (e.g.	, Residen	tial, Non-Residential,	Addition,	Accessory, e	etc.) Residentia	ıl	
A5. Latitude/Longitude	e: Lat. <u>36</u>	.850910	Long1	07.979300	Horizontal	Datum: NAD 1	927 × NAD 1983
A6. Attach at least 2 p	hotograph	ns of the building if the	e Certific	ate is being u	sed to obtain flood	d insurance.	
A7. Building Diagram I	Number	9					
A8. For a building with	a crawls	pace or enclosure(s):					
a) Square footage	e of crawls	space or enclosure(s)		1	480.00 sq ft		
b) Number of perm	nanent flo	od openings in the cra	awlspace	e or enclosure	e(s) within 1.0 foot	above adjacent gra	de 9
c) Total net area of	of flood op	enings in A8.b		972.00 sq in			
d) Engineered floo	od openin	gs? 🛛 Yes 🗌 N	10				
A9. For a building with	an attach	ed garage:					
a) Square footage	of attach	ed garage		N/A sq ft			
b) Number of perr	manent flo	od openings in the at	tached g	arage within 1	1.0 foot above adj	acent grade N/A	
c) Total net area o	of flood op	enings in A9.b		N/A sq	in		
d) Engineered floo	od openin	gs?	<b>1</b> 0				
		CTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) INF	ORMATION	
B1. NFIP Community I San Juan County 3500		ommunity Number		B2. County San Juan	Name		B3. State New Mexico
B4. Map/Panel B5 Number	5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
35045C/0730 F 08-05-2010 Revised Date 08-05-2010 A 5646.03							
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: ☐ DTF HEC RAS Study-1/27/2020							
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)?							
Designation Date			CBRS	☐ OPA			_ <del>_</del>

IMPORTANT: In these spaces, copy the corres	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suit 7 Road 2928, Aztec, NM 87410	Policy Number:		
City Aztec	State ZIF New Mexico 874	Code 110	Company NAIC Number
SECTION C – BUILI	DING ELEVATION INFORMA	TION (SURVEY RE	EQUIRED)
*A new Elevation Certificate will be required	d when construction of the build		
C2. Elevations – Zones A1–A30, AE, AH, A (w Complete Items C2.a–h below according to Benchmark Utilized: WGS 1984	ith BFE), VE, V1–V30, V (with I o the building diagram specified Vertical Datum	in Item A7. In Puert	AE, AR/A1–A30, AR/AH, AR/AO. o Rico only, enter meters.
Indicate elevation datum used for the eleva ☐ NGVD 1929 ※ NAVD 1988 ☐	Other/Source:		
Datum used for building elevations must be	e the same as that used for the	BFE.	Check the measurement used.
a) Top of bottom floor (including basemen	t, crawlspace, or enclosure floo	r)5	649.0 X feet  meters
b) Top of the next higher floor		5	6652.0 X feet meters
c) Bottom of the lowest horizontal structure	al member (V Zones only)		N/A feet meters
d) Attached garage (top of slab)			N/A  feet  meters
<ul> <li>e) Lowest elevation of machinery or equip (Describe type of equipment and location</li> </ul>			N/A feet meters
f) Lowest adjacent (finished) grade next to	o building (LAG)	5	6648.6 X feet  meters
g) Highest adjacent (finished) grade next t	to building (HAG)	5	6649.7 X feet  meters
<ul> <li>h) Lowest adjacent grade at lowest elevat structural support</li> </ul>	ion of deck or stairs, including	5	6648.3 × feet meters
SECTION D - SUR	RVEYOR, ENGINEER, OR AF	CHITECT CERTIF	ICATION
This certification is to be signed and sealed by I certify that the information on this Certificate ri statement may be punishable by fine or impriso	epresents my best efforts to into	erpret the data availa	y law to certify elevation information. able. I understand that any false
Were latitude and longitude in Section A provid	ed by a licensed land surveyor	Yes No	Check here if attachments.
Certifier's Name Robert A. Echols, Jr., PE	License Number 6580		
Title President			AND A. ECH
Company Name Cheney-Walters-Echols, Inc.			OLDEO CO
Address 909 W. Apache			8580) E
City Farmington	State New Mexico	ZIP Code 87401	PAFES 3184
Signature SHO 7	8141	Telephone (505) 327-3303	Ext.
Copy all pages of this Elevation Certificate and al		official, (2) insurance	agent/company, and (3) building owner.
Comments (including type of equipment and loc	cation, per C2(e), if applicable)		

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY USE							
Building Street Address (including Apt., Unit, Suite, and/or 7 Road 2928, Aztec, NM 87410			Policy Number:					
City Stat Aztec New	te ZIP ( v Mexico 8741	Code 10	Company NAIC I	Number				
SECTION E – BUILDING ELEVA FOR ZONE A	ATION INFORMATIO O 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 che the highest adjacent grade (HAG) and the lowest adjacent grade (including basement,		es to show whethe	r the elevation is a	above or below				
crawlspace, or enclosure) is	0.7	⊠ feet ☐ meter	s above or	⊠ below the HAG.				
<ul> <li>b) Top of bottom floor (including basement, crawlspace, or enclosure) is</li> </ul>	3.4	⊠ feet ☐ meter	's 🗵 above or	below the LAG.				
E2. For Building Diagrams 6–9 with permanent flood oper the next higher floor (elevation C2.b in	nings provided in Section	on 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	2.3	⊠ feet ☐ meter	s 🗵 above or	below the HAG.				
E3. Attached garage (top of slab) is	N/A	feet meter	rs 🔲 above or	below the HAG.				
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 floodplain management ordinance? X Yes No	is the top of the bottom of the lower land of the land of the lower land of the lower land of the lower land of the lower land of the land of the lower land of the lower land of the lower land of the lower land of the land of th							
SECTION F – PROPERTY OWNER	R (OR OWNER'S REP	RESENTATIVE) CE	ERTIFICATION					
The property owner or owner's authorized representative v community-issued BFE) or Zone AO must sign here. The s	who completes Sections	s A. B. and E for Zo	one A (without a F	EMA-issued or my knowledge.				
Property Owner or Owner's Authorized Representative's N Robert A. Echols, Jr., PE	lame							
Address 909 W. Apache	City Farmingto		tate ew Mexico	ZIP Code 87401				
Signature	Date		elephone 05) 327-3303					
Comments								
			Check h	nere if attachments.				

MPORTANT: In these spaces, copy the corre	esponding information from	Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, St 7 Road 2928, Aztec, NM 87410	Route and Box No.	Policy Number:	
City	State	ZIP Code	Company NAIC Number
Aztec	New Mexico	87410	
SECTIO	ON G - COMMUNITY INFOR	MATION (OPTIONAL)	
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	Certificate. Complete the ap	mmunity's floodplain ma plicable item(s) and sign	nagement ordinance can complete n below. Check the measurement
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	en from other documentation ed by law to certify elevation	that has been signed an information. (Indicate the	nd sealed by a licensed surveyor, e source and date of the elevation
G2. A community official completed Section or Zone AO.	on E for a building located in	Zone A (without a FEM	A-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided for commur	nity 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 Subs	stantial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	g basement)	feet	meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet	meters Datum
G10. Community's design flood elevation:		fee	t  meters Datum
Local Official's Name	Title	)	
Community Name	Tel	ephone	
Signature	Dat	е	
Comments (including type of equipment and lo	cation, per C2(e), if applicable	e)	
			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	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., U	Policy Number:		
7 Road 2928, Aztec, NM 87410			
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 Caption Clear Photo Two

#### **BUILDING PHOTOGRAPHS**

#### **ELEVATION CERTIFICATE**

Continuation Page

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

IMPORTANT: In these spaces, copy the correspor	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, a	Policy Number:		
7 Road 2928, Aztec, NM 87410			
City	State	ZIP Code	Company NAIC Number
Aztec	New Mexico	87410	

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. 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.



Photo Three

Photo Three Caption

Clear Photo Three

Photo Four

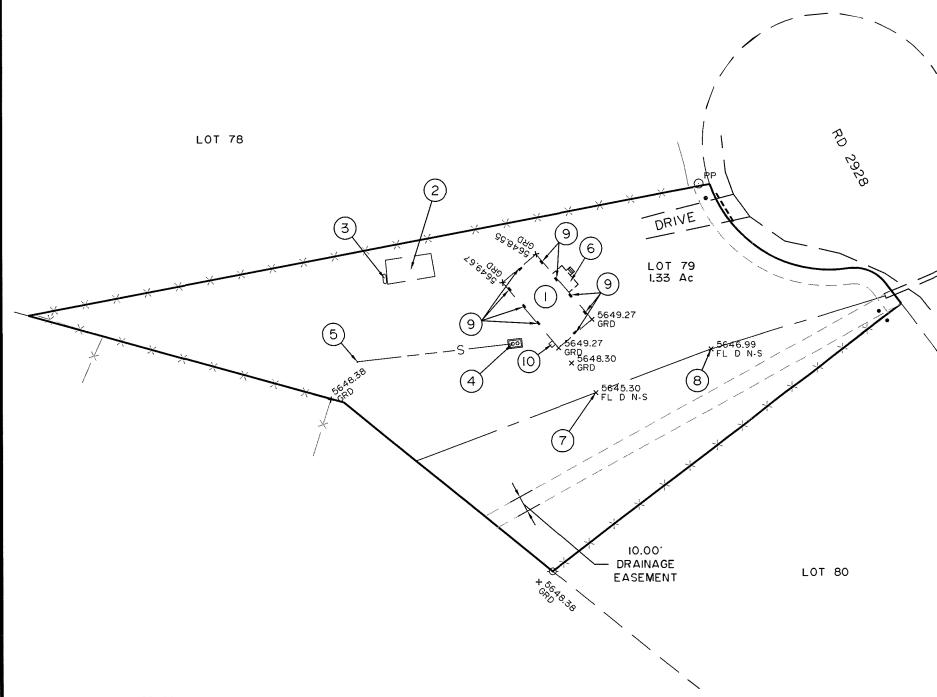
Photo Four Caption

Clear Photo Four

# DETERMINED BASE FLOOD ELEVATION

I. DATA FROM PANEL 35045C073OF REVISED AUGUST 5, 2010 IS ZONE "A". BASE FLOOD ELEVATION HAS BEEN USED FROM DTF ENGINEERING ELEVATION STUDY FOR LOT 76 VILLA de ANIMAS SUBDIVISION. ELEVATION = 5646.03.

2. SEE SHEET No. 2 OF 2 FOR FIRM MAP INFORMATION.

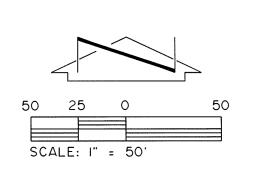


FLOOD ELEVATION CERTIFICATE
No. 7 ROAD 2928
AZTEC, NEW MEXICO 87410
LOT 79
VILLA DE ANIMAS SUBDIVISION
FOR BRIAN & BECKY McCRAW

#### **KEYED NOTES:**

- 1 1480.00 sf HOME ON PIER AND BEAM FOUNDATION FINISH FLOOR ELEVATION = 5652.00.
- (2) EXISTING SHED.
- (3) EXISTING PROPANE TANK.
- (4) SEPTIC TANK ACCESS ELEVATION = 5647.82.
- (5) SEWER CLEAN OUT/ INSPECTION PORT.
- (6) OPEN PORCH.
- (7) F/L OF DRAINAGE DITCH ELEVATION = 5645.30.
- (8) F/L OF DRAINAGE DITCH ELEVATION = 5646.99.
- 9 9 EACH 8"x16" FREE AIR VENTS WITH INVERT ELEVATION = 5650.67.
- (10) 3.0' CRAWL SPACE OPENING BOTTOM ELEVATION = 5649.00.

NOTE:
I.) TOTAL NET AREA OF FLOOD OPENING = 972 sq. in.



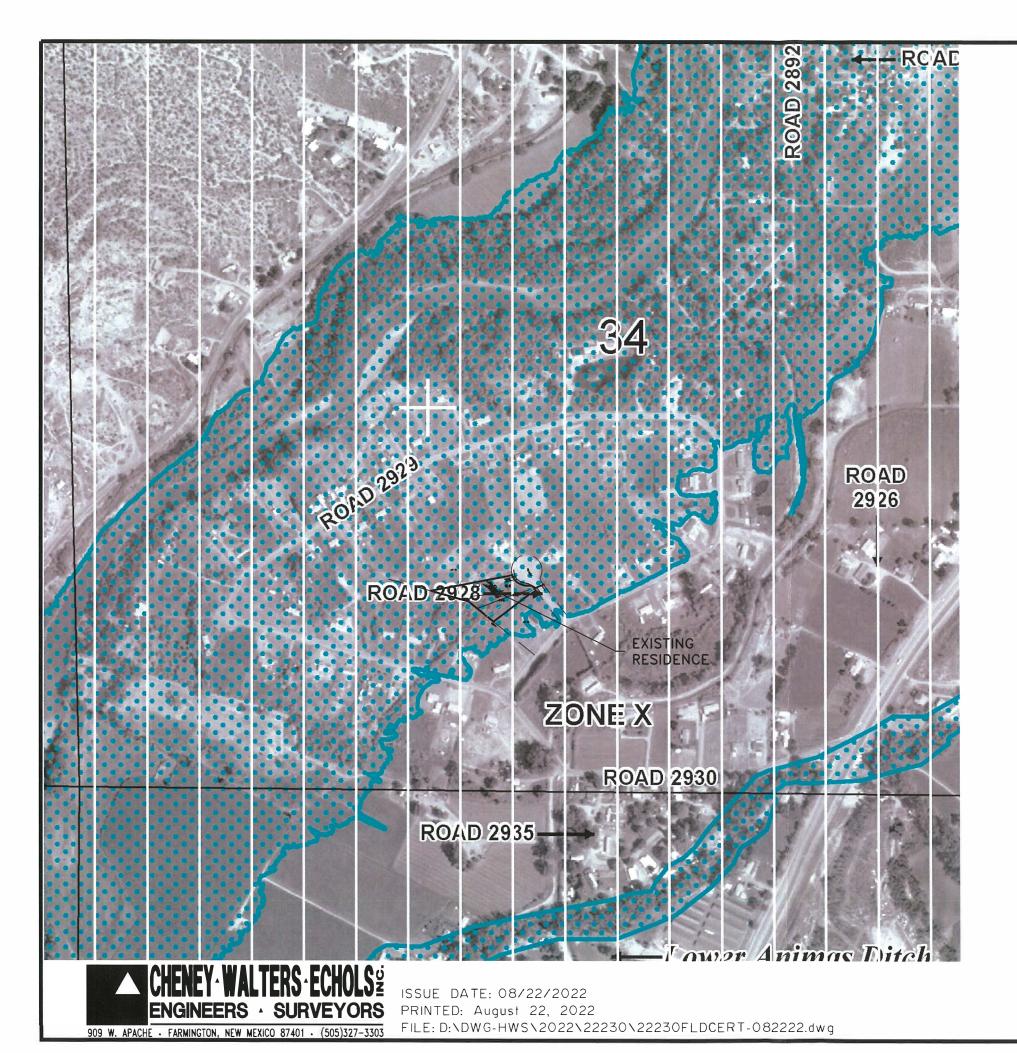


CHENEY WALTERS ECHOLS ENGINEERS • SURVEYORS

909 W. APACHE • FARMINGTON, NEW MEXICO 87401 • (505)327-3303

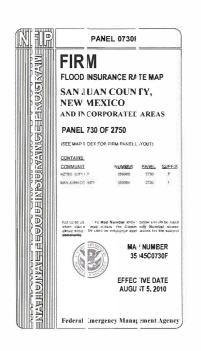
ISSUE DATE: 08/22/2022
PRINTED: August 22, 2022
FILE: D: DWG-HWS \ 2022 \ 222

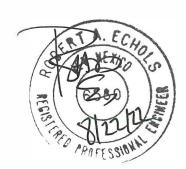
FILE: D:\DWG-HWS\2022\22230\22230FLDCERT-082222.dwg

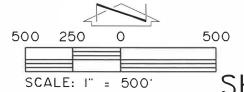


# FLOOD ELEVATION CERTIFICATE No. 7 ROAD 2928 AZTEC, NEW MEXICO 87410 LOT 79 VILLA DE ANIMAS SUBDIVISION

FOR BRIAN & BECKY McCRAW 23) - - - - - (23 ) Transect time 97° 07' 30", 32° 22' 30 Geographic coordinate referenced to the North Ai encain Datum of 1983 (NA® £ I), Wilestern Herintphitre 1000-meter Universal rainsverse Mercator grid values, zones 12 & 13 5000 foot grid bicks: N w Mexico State Plane coor; gate system, West Zone (FIPSZCHE 1893), Yransverse (Hercator Projection Bench mark (see calle) albon in Notes to Users Sec on of Nos FIRM panel)







E-FECTIVE DATE(S) OF REV. SION(S) TO THIS PANEL

SHEET No. 2 OF

#### 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.

	SEC	TION A - PROPERTY	INFORI	MATION		FOR INSUR	ANCE COMPANY USE	
A1. Building Owner's Name Policy Number HEATH, FRED D AND DEBRA A							oer:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.  10 ROAD 2928							AIC Number:	
City AZTEC				State New Me	kico	ZIP Code 87410		
i	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Parcel Number 2063180272128, R0015683							
A4. Building Use (	e.g., Resider	itial, Non-Residential,	Addition,	Accessory,	etc.)			
A5. Latitude/Longit	ude: Lat. <u>N</u>	36° 51' 05.45"	Long. W	/107° 58' 44.3	B5" Horizontal	Datum: NAD 1	927 🗵 NAD 1983	
A6. Attach at least	2 photograp	hs of the building if the	e Certific	ate is being ι	sed to obtain floo	d insurance.		
A7. Building Diagra	ım Number	1B						
A8. For a building	with a crawls	pace or enclosure(s):						
a) Square foot	age of crawl	space or enclosure(s)		1	595.00 sq ft			
b) Number of p	ermanent flo	ood openings in the cra	awlspace	e or enclosure	e(s) within 1.0 foot	above adjacent gra	de 0	
c) Total net are	ea of flood o	penings in A8.b		0.00 sq in	1			
d) Engineered	flood openir	ngs? 🗌 Yes 🗵 N	10					
A9. For a building v	<i>i</i> ith an attach	ned garage:						
a) Square foot	age of attach	ned garage		0.00 sq ft				
b) Number of p	ermanent flo	ood openings in the at	tached g	arage within	1.0 foot above adj	acent grade 0		
c) Total net are	ea of flood o	penings in A9.b		0.00 sq	in			
d) Engineered	flood openin	gs? 🗌 Yes 🔀 N	lo					
		CTION B – FLOOD I	NSURA			ORMATION		
B1. NFIP Commun SAN JUAN COUNT	-	Community Number		B2. County SAN JUAN			B3. State New Mexico	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)	
0730	0730 F 08-05-2010 Revised Date 08-05-2010 A 5646.03							
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: HEC-RAS ANALYSIS								
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)? 🗌 Yes 🗵 No								
Designation I	Date:		CBRS	□ОРА				

		-	Expiration Bate. Hovel	11501 00, 2010
IMPORTANT: In these spaces, copy the correspondent	onding information from Sec	tion A.	FOR INSURANCE CO	OMPANY USE
Building Street Address (including Apt., Unit, Suite, 10 ROAD 2928	and/or Bldg. No.) or P.O. Rout		Policy Number:	
City AZTEC	State ZIP 0 New Mexico 8741	1	Company NAIC Numb	er
SECTION C – BUILDII	NG ELEVATION INFORMAT	ION (SURVEY RE	QUIRED)	
C1. Building elevations are based on: Con *A new Elevation Certificate will be required to	· —	ling Under Construc	tion* 🔀 Finished C	Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with Complete Items C2.a–h below according to t Benchmark Utilized: OPUS		n Ítem A7. In Puerto		
Name and the second sec	<del></del>			
Indicate elevation datum used for the elevation  ☐ NGVD 1929 ☐ NAVD 1988 ☐		v.		
Datum used for building elevations must be t		FE.		
Control of hotton floor (note that the control	<b></b>	5.6	Check the measur 645.7 ⊠ feet □	
a) Top of bottom floor (including basement,	crawispace, or enclosure floor)			meters meters
b) Top of the next higher floor				
c) Bottom of the lowest horizontal structural	member (V Zones only)		[ feet [	meters
d) Attached garage (top of slab)			[_] feet [_]	meters
e) Lowest elevation of machinery or equipm     (Describe type of equipment and location	ent servicing the building in Comments)	ANN AND AN AND AND AND AND AND AND AND A	feet	meters
f) Lowest adjacent (finished) grade next to t	ouilding (LAG)	56	45.2 X feet	meters
g) Highest adjacent (finished) grade next to	building (HAG)	56	46.5 X feet	meters
<ul> <li>h) Lowest adjacent grade at lowest elevation structural support</li> </ul>	n of deck or stairs, including	56	45.3 🔀 feet 🗌	meters
SECTION D - SURV	EYOR, ENGINEER, OR ARC	HITECT CERTIFIC	CATION	
This certification is to be signed and sealed by a I I certify that the information on this Certificate rep statement may be punishable by fine or imprison	resents my best efforts to interi	oret the data availab	law to certify elevation le. I understand that a	information. any false
Were latitude and longitude in Section A provided	by a licensed land surveyor?	⊠Yes □ No		ttachments.
Certifier's Name	License Number			
DANIEL T FLACK	14850 		TELLA	
Title ENGINEER			THE WELL	<b>(4)</b>
Company Name			A ( )	<u>    E                                 </u>
DTF ENGINEERING			[열 ( (14850)	) <b>[</b> ]
Address PO BOX 1063			14850 14850	
City KIRTLAND	State New Mexico	ZIP Code 87417	NOFESSIO	
Signature Aud THad	Date 01-27-2020	Telephone (505) 598-5163	Ext.	
Copy all pages of this Elevation Certificate and all a	ttachments for (1) community of	ficial, (2) insurance a	gent/company, and (3)	building owner.
Comments (including type of equipment and locat SURVEY PROVIDED BY BASIN SURVEY.	tion, per C2(e), if applicable)			

#### **BUILDING PHOTOGRAPHS**

**ELEVATION CERTIFICATE** 

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy th	FOR INSURANCE COMPANY USE					
Building Street Address (including Apt.,	Policy Number:					
10 ROAD 2928	10 ROAD 2928					
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

Plan: Plan 01 River CL River CL RS: 383.89 Profile: PF 1

E.G. Elev (ft)	5646.69	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.66	Wt. n-Val.	0.038	0.038	0.038
W.S. Elev (ft)	5646.03	Reach Len. (ft)	100.00	100.00	100.00
Crit W.S. (ft)	5644.21	Flow Area (sq ft)	1140.15	1412.46	1311.27
E.G. Slope (ft/ft)	0.002053	Area (sq ft)	1140.15	1412.46	1311.27
Q Total (cfs)	18700.00	Flow (cfs)	5187.13	11041.63	2471.25
Top Width (ft)	1622.47	Top Width (ft)	276.89	152.00	1193.58
Vel Total (ft/s)	4.84	Avg. Vel. (ft/s)	4.55	7.82	1.88
Max Chl Dpth (ft)	10.04	Hydr. Depth (ft)	4.12	9.29	1.10
Conv. Total (cfs)	412691.0	Conv. (cfs)	114474.9	243678.1	54538.1
Length Wtd. (ft)	100.00	Wetted Per. (ft)	277.11	152.42	1195.35
Min Ch El (ft)	5635.99	Shear (lb/sq ft)	0.53	1.19	0.14
Alpha	1.81	Stream Power (lb/ft s)	2.40	9.29	0.27
Frctn Loss (ft)	0.34	Cum Volume (acre-ft)	2.08	2.93	1.58
C & E Loss (ft)	0.13	Cum SA (acres)	0.60	0.35	1.49

