INSURANCE

FPUP# P CP

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1–9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION

FOR INSURANCE COMPANY USE
Policy Number:
Company NAIC Number:

A1. Building Owner's Name **John & Kimberly Dangremond**

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
11940 East Barbary Coast Road
City **Tucson** State **AZ** ZIP Code **85749**

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
Tax Code 205-50-0810 Township 14 Range 16 Section 5 Fort Niners Country Club Estates Lot 250

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) **Residential: Single Family Residence**

A5. Latitude/Longitude: Lat. **32.243202** Long. **-110.736318** Horizontal Datum: ☐ NAD 1927 ☒ 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 **1A**

A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) **n/a** sq ft
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade **n/a**
c) Total net area of flood openings in A8.b **n/a** sq in
d) Engineered flood openings? ☐ Yes ☑ No

A9. For a building with an attached garage:
a) Square footage of attached garage **425** sq ft
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade **n/a**
c) Total net area of flood openings in A9.b **n/a** sq in
d) Engineered flood openings? ☐ Yes ☑ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number: **Pima County / 040073**
B2. County Name: **Pima County**
B3. State: **AZ**

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) (Zone AO, use base flood depth)
04019C 2330	L	9-28-12	6/16/2011	AE	2628.7

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: **Highest Adj. Nat. Grade (=100 ft)**

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: ____ / **N/A** / ____ ☐ CBRS ☐ OPA

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: **COT FB 1989E1, PG 52 BM No. 595E** Vertical Datum: **NAVD88**
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)	**2629.60**	☒ feet ☐ meters
b) Top of the next higher floor	**N/A**	☒ feet ☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	**N/A**	☒ feet ☐ meters
d) Attached garage (top of slab)	**2629.23**	☒ feet ☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	**2629.04**	☒ feet ☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	**2627.35**	☒ feet ☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	**2628.92**	☒ feet ☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	**N/A**	☒ feet ☐ meters

When B.9 is a depth above grade, it is required to indicate highest and lowest NATURAL grade in Section D Comments

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.*

☑ Check here if comments are provided on back of form.
☐ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☑ No

Certifier's Name		License Number	
Gregory Bauer		**AZ RLS 35111**	
Title	Company Name		
Land Surveyor	**Arrow Land Survey, Inc**		
Address	City	State	ZIP Code
3121 E Kleindale Rd	**Tucson**	**AZ**	**85716**
Signature	Date	Telephone	
	12/23/2013	**520-881-2155**	

FEMA Form 086-0-33 (7/12)

See reverse side for continuation.

Replaces all previous editions.

FPUP# P CP

ELEVATION CERTIFICATE, page 2

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. **11940 East Barbary Coast Road**	Policy Number:
City **Tucson** State **AZ** ZIP Code **85749**	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

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

Comments **The lowest service equipment (C2.e) is theair conditioning unit and all other equipment is above this elevation. Highest adjacent natural grade is 2628.92 Lowest adjacent natural grade is 2627.35.**

Signature [signature] Date **12/23/2013**

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 8–9 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.

N/A

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

☐ Check here if attachments.

N/A

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G9) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: ____ ☐ 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: ____ ☐ feet ☐ meters Datum ____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments.

Mindy Cox

From: Jan Gutbub <jgutbub@arrowlandsurvey.com>
Sent: Thursday, February 20, 2014 8:19 AM
To: Mindy Cox
Subject: RE: 11940 E Barbary Coast FEMA Elevation Certificate
Attachments: _0220081404_001.pdf

Mindy

Attached is the completed form for your files.
Thanks
Jan

ARROW LAND SURVEY, INC.
3121 E. Kleindale Road
Tucson, AZ 85716
(520) 881-2155 phone
(520) 881-2466 fax
JGUTBUB@ARROWLANDSURVEY.COM

From: Mindy Cox [mailto:Mindy.Cox@pima.gov]
Sent: Wednesday, February 19, 2014 1:32 PM
To: 'jgutbub@arrowlandsurvey.com'
Subject: RE: 11940 E Barbary Coast FEMA Elevation Certificate

Jan- Here is a blank elevation certificate with the Base Flood Elevation typed in box B9 rather than showing a hand-written change. You can just transfer the information from the filled out elevation certificate over to this one and that should be acceptable to the insurance company.

The flood zone is AE, for which a BFE has to be calculated/interpolated- so there really is no "match" to current flood maps. I had calculated a BFE, which was reviewed and revised by Floodplain Management's Civil Engineering Manager, as shown on the Flood Profile that you have.

Mindy Cox, CFM, Senior Hydrologist
Pima County Regional Flood Control District, Floodplain Management Division
724-4600

From: Jan Gutbub [mailto:jgutbub@arrowlandsurvey.com]
Sent: Tuesday, February 18, 2014 12:42 PM
To: Edward Eastburn
Cc: kevbo246@aol.com
Subject: 11940 E Barbary Coast FEMA Elevation Certificate

Edward
I'm not sure if you can help or can direct me to the a person who can.

Attached you will find a copy of a FEMA certificate that we did in Dec of 2013. At the time the home owner was John Dangremond Parcel # 205-50-0810. Mr Dangemond went to the Pima Flood Plain office and spoke with someone with the initials RFCD/MLC . In any case the base flood elevation on the form was changed and initial on 12/27/2013 and was given to the home owner was the attached approved report by floodplain management. The new owner is trying to get all of the paper work in place with his insurance company they will not except the form that was changed on 12/27/2014 by someone in your office. Can you provide the name of that person and a new form with the revised elevation along with a letter stating why the elevation was changed.

The elevations need to match with what the current maps state for that parcel and/or a letter from flood plain as to why the elevation do not match. Please call me if you have any questions.

Jan Gutbub
ARROW LAND SURVEY, INC.
3121 E. Kleindale Road
Tucson, AZ 85716
(520) 881-2155 phone
(520) 881-2466 fax
JGUTBUB@ARROWLANDSURVEY.COM

246P
FEDERAL EMERGENCY MANAGEMENT AGENCY
PIMA COUNTY, AZ
AND INCORPORATED AREAS
FLOOD PROFI
TANQUE VERDE CI
"DATA NOT AVAILABLE
STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH RILLITO CREEK AND PANTANO WASH
45500
46000
46500
47000
47500
48000
48500
49000
49500
50000
50500
51000
51500
52000
2580
2590
2600
2610
2620
2630
2640
ELEVATION IN FEET (NAVD 88)
LEGEND
0.2% ANNUAL CHANCE FLOOD
1% ANNUAL CHANCE FLOOD
2% ANNUAL CHANCE FLOOD
10% ANNUAL CHANCE FLOOD
STREAM BED
CROSS SECTION LOCATION
AJ
AH
AI
AG
AF
AJ

Base Flood Elevation Calculation Worksheet

FPUP #: -
Watercourse:

Site Address: 11940 E Barabary Coast Rd
FIS Date: Vertical Datum:

FOR AE ZONES & HEC-RAS CROSS-SECTIONS

Cross Section Information

Upstream cross section ID:	AH	Elev.	2631.90 ft
Downstream cross section ID:	AG	Elev.	2623.50 ft
Elevation difference			8.40 ft
Distance between cross sections=			~~4830~~ ft
Distance from upstream x-sec. to structure=			~~480~~ ft
Flood Elevation:			2629.7 ft

1922
493
CCDS

2628.7 Per FIS Profile sheet CCDS 12/27/13

BFE Line Information

Upstream BFE line elevation:	2629.00 ft
Downstream BFE line elevation:	2628.00 ft
Elevation difference	1.00 ft
Distance between BFE lines=	320 ft
Distance from upstream BFE line to structure=	29 ft
Flood Elevation:	2628.9 ft
Flood Elevation from FIS Profile:	2631.4 ft

Most Conservative BFE: 2631.4 ft

Depth of Flow: #VALUE!
slope
Mannings n: 0.060
Flow Velocity: #VALUE!
Estimated DV²: #VALUE!

FOR FLO-2D WATER SURFACE CONTOURS

BFE Line Information (FLO-2D)

Upstream BFE line elevation:	ft
Downstream BFE line elevation:	ft
Elevation difference	0.00 ft
Distance between BFE lines=	

Measurement Point 1 (Required)
Distance from upstream BFE line to structure= ft
Flood Elevation: ft

Measurement Point 2 (Recommended)
Distance from upstream BFE line to structure= ft
Flood Elevation: ft

Measurement Point 3 (Recommended)
Distance from upstream BFE line to structure= ft
Flood Elevation: ft

Most Conservative BFE: 0.0 ft

Depth of Flow: #VALUE!
slope
Mannings n: 0.060
Flow Velocity: #VALUE!
Estimated DV²: #VALUE!

Ground Surface Elevation Information

Topography Datum	
Upslope Topo Line Elevation:	ft
Distance to Upslope Line:	ft
Downslope Topo Line Elevation:	ft
Distance to Downslope Line:	ft
Horizontal Difference:	0 ft
Elevation Difference:	0 ft
GSEL at Upstream Point	ft
Depth of flow from HEC-RAS	#VALUE! ft
Depth of flow from FLOD-2D	
Most Conservative depth of flow from above:	#VALUE!
Vertical Conversion factor (if any, 0 if none):	0 ft
Depth of flow (in BFE Datum)	**#VALUE! ft**
Depth of flow (from depth zone such as AO1)	ft
Most Conservative depth of flow	#VALUE!

General Ground Slope Calculation*

Horizontal difference	ft
Elevation Difference	ft
Overall ground slope*:	

* The slope calculation will often span more than two lines of topography in order to properly represent the slope that influences flow at a particular location

Calculation by: Date: Map Attached? Y / N

Reviewed by: Date:

Grey Fields: Data Entry Required

for Insurance FPUP14-006 = INSURANCE ONLY

COPY

FPUP# P CP

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1–9.

Accepted 12-30-13 CB

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION

	FOR INSURANCE COMPANY USE
A1. Building Owner's Name: John & Kimberly Dangremond	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 11940 East Barbary Coast Road	Company NAIC Number:
City: Tucson State: AZ ZIP Code: 85749	

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
Tax Code 205-50-0810 Township 14 Range 16 Section 5 Fort Niners Country Club Estates Lot 250

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): Residential: Single Family Residence

A5. Latitude/Longitude: Lat. 32.243202 Long. -110.736318 Horizontal Datum: ☐ NAD 1927 ☒ 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: 1A

A8. For a building with a crawlspace or enclosure(s):
- a) Square footage of crawlspace or enclosure(s): n/a sq ft
- b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade: n/a
- c) Total net area of flood openings in A8.b: n/a sq in
- d) Engineered flood openings? ☐ Yes ☑ No

A9. For a building with an attached garage:
- a) Square footage of attached garage: 425 sq ft
- b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: n/a
- c) Total net area of flood openings in A9.b: n/a sq in
- d) Engineered flood openings? ☐ Yes ☑ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number			B2. County Name		B3. State
Pima County / 040073			Pima County		AZ
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) (Zone AO, use base flood depth)**
04019C 2330	L	9-28-12	6/16/2011	AE	~~2629.6~~ 2628.7

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: RFCD / MLC 12/27/13

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☑ NAVD 1988 ☐ Other/Source: Highest Adj. Nat. Grade (=100 ft)

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: ____ / N/A / ____ ☐ CBRS ☐ OPA

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: COT FB 1989E1, PG 52 BM No. 595E Vertical Datum: NAVD88

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)	2629.60	☒ feet ☐ meters
b) Top of the next higher floor	N/A	☒ feet ☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	☒ feet ☐ meters
d) Attached garage (top of slab)	2629.23	☒ feet ☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	2629.04	☒ feet ☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	2627.35	☒ feet ☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	2628.92	☒ feet ☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	N/A	☒ feet ☐ meters

When B.9 is a depth above grade, it is required to indicate highest and lowest NATURAL grade in Section D Comments

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.*

☑ Check here if comments are provided on back of form.
☐ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☑ No

Certifier's Name		License Number	
Gregory Bauer		AZ RLS 35111	
Title	Company Name		
Land Surveyor	Arrow Land Survey, Inc		
Address	City	State	ZIP Code
3121 E Kleindale Rd	Tucson	AZ	85716
Signature	Date	Telephone	
	12/23/2013	520-881-2155	

REGISTERED LAND SURVEYOR CERTIFICATE NO. 35111 GREGORY W BAUER PLACE HERE Date Signed 12-23-13 ARIZONA, U.S.A. Expires 06/30/14

FEMA Form 086-0-33 (7/12)

See reverse side for continuation.

Replaces all previous editions.

ORIGINAL

UP# P CP

COPY

ELEVATION CERTIFICATE, page 2

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. **11940 East Barbary Coast Road**	Policy Number:
City **Tucson** State **AZ** ZIP Code **85749**	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

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

Comments **The lowest service equipment (C2.e) is theair conditioning unit and all other equipment is above this elevation.**

Highest adjacent natural grade is 2628.92 Lowest adjacent natural grade is 2627.35.

Signature [signature] Date **12/23/2013**

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, p[illegible]osure) is ____ . ____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

b) Top of bottom floor (including basement, crawlspace, or e[illegible]re) is ____ . ____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openin[illegible]s provi[illegible] Sectio[illegible] A Items 8 and [illegible]9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of [illegible]he buildi[illegible] ____ . ____ ☐ 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.

N/A

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 Nam[illegible]

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments.

N/A

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G9) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: ____ . ____ ☐ 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: ____ . ____ ☐ feet ☐ meters Datum ____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments.

Base Flood Elevation Calculation Worksheet

FPUP #:
Watercourse:
Site Address: 11940 E Barabary Coast Rd
FIS Date: **Vertical Datum:**

FOR AE ZONES & HEC-RAS CROSS-SECTIONS

Cross Section Information

Upstream cross section ID:	AH	Elev.	2631.90 ft
Downstream cross section ID:	AG	Elev.	2623.50 ft
Elevation difference			8.40 ft
Distance between cross sections=			~~4830~~ ft
Distance from upstream x-sec. to structure=			~~489~~ ft
Flood Elevation:			2629.7 ft

1922
493
CDS

2628.7 Per FIS Profile Sheet
CDS
12/27/13

BFE Line Information

Upstream BFE line elevation:	2629.00 ft
Downstream BFE line elevation:	2628.00 ft
Elevation difference	1.00 ft
Distance between BFE lines=	320 ft
Distance from upstream BFE line to structure=	29 ft
Flood Elevation:	2628.9 ft
Flood Elevation from FIS Profile:	2631.4 ft

Most Conservative BFE: 2631.4 ft

Depth of Flow:	#VALUE!
slope	
Mannings n:	0.060
Flow Velocity:	#VALUE!
Estimated DV²:	**#VALUE!**

FOR FLO-2D WATER SURFACE CONTOURS

BFE Line Information (FLO-2D)

Upstream BFE line elevation:	ft
Downstream BFE line elevation:	ft
Elevation difference	0.00 ft
Distance between BFE lines=	

Measurement Point 1 (Required)

Distance from upstream BFE line to structure=	ft
Flood Elevation:	ft

Measurement Point 2 (Recommended)

Distance from upstream BFE line to structure=	ft
Flood Elevation:	ft

Measurement Point 3 (Recommended)

Distance from upstream BFE line to structure=	ft
Flood Elevation:	ft

Most Conservative BFE: 0.0 ft

Depth of Flow:	#VALUE!
slope	
Mannings n:	0.060
Flow Velocity:	#VALUE!
Estimated DV²:	**#VALUE!**

Ground Surface Elevation Information

Topography Datum		
Upslope Topo Line Elevation:		ft
Distance to Upslope Line:		ft
Downslope Topo Line Elevation:		ft
Distance to Downslope Line:		ft
Horizontal Difference:	0	ft
Elevation Difference:	0	ft
GSEL at Upstream Point		ft
Depth of flow from HEC-RAS	#VALUE!	ft
Depth of flow from FLOD-2D		
Most Conservative depth of flow from above:	#VALUE!	
Vertical Conversion factor (if any, 0 if none):	0	ft
Depth of flow (in BFE Datum)	**#VALUE!**	ft
Depth of flow (from depth zone such as AO1)		ft
Most Conservative depth of flow	#VALUE!	

General Ground Slope Calculation*

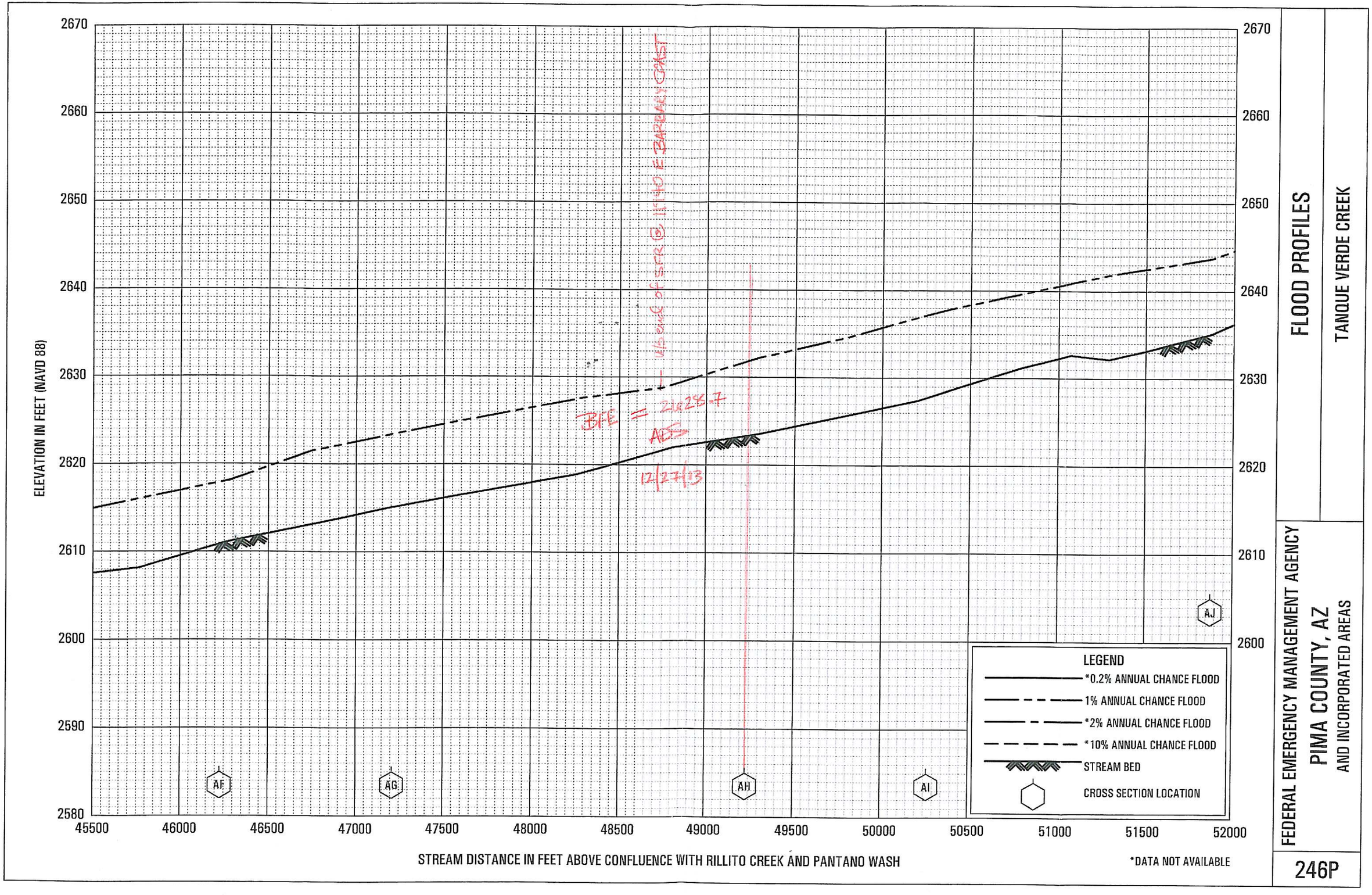
Horizontal difference	ft
Elevation Difference	ft
Overall ground slope*:	

* The slope calculation will often span more than two lines of topography in order to properly represent the slope that influences flow at a particular location

Calculation by: Date: Map Attached? Y / N

Reviewed by: Date:

Grey Fields:	Data Entry Required
Light Turqoise Fields:	Data Entry Required if in a flood zone with water surface elevations (i.e. AE, AH, Special Study with cross-sections, etc.)
Pale Blue Fields	Data Entry Required if in a flood zone with depths of flow (i.e. AO1, sheet flood, etc.)
Light Green Fields:	Calculation fields, write protected
Yellow Fields:	Results, write protected


2670
2660
2650
2640
2630
2620
2610
2600
2590
2580
ELEVATION IN FEET (NAVD 88)
45500
46000
46500
47000
47500
48000
48500
49000
49500
50000
50500
51000
51500
52000
STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH RILLITO CREEK AND PANTANO WASH
AF
AG
AH
AI
AJ
LEGEND
*0.2% ANNUAL CHANCE FLOOD
1% ANNUAL CHANCE FLOOD
*2% ANNUAL CHANCE FLOOD
*10% ANNUAL CHANCE FLOOD
STREAM BED
CROSS SECTION LOCATION
*DATA NOT AVAILABLE
FLOOD PROFILES
TANQUE VERDE CREEK
FEDERAL EMERGENCY MANAGEMENT AGENCY
PIMA COUNTY, AZ
AND INCORPORATED AREAS
246P