



Floodplain Use Permit- Case History

RECORD: P24FC00914

Building/Floodplain Use Permit

Case Name:SFR

Issue: Addition Guest House

11/8/2024 Application Intake - Submitted: Created from RFCD Review ad-hoc

Case Reviewer:Ben Scholl

11/8/2024 Review - Engineering Review Requested: Guest house is proposed w/in active area of Tortolita Soils (flooding or deposition w/in last 5,000 years) overlaid with Zone AO - Alluvial Fan 2; site-specific erosion protection required. First set of plans was submitted with engineering from Ahmed Rashed, sealed 11/06/2024. Mannings & scour sheets included, but cursory inspection indicates DV^2 is busted at 58.53 and no analysis provided to address DV^2 issue. Forwarding this FPUP for engineering review immediately, physical folder will go to Andy.

Case Reviewer:Ben Scholl

12/13/2024 Engineering Review - Request for Corrections: RFC sent to applicant via email 12/13/2024.

Case Reviewer:Ben Scholl

12/16/2024 Engineering Review - Note: Emailed owner Anthony Drefchinsky (JDREFCHINSKI@LNH.NET) asking if OK to share RFC w/ Tom Patterson, PE. Received undeliverable notification, will contact applicant to obtain owner's info.

Case Reviewer:Ben Scholl

1/30/2025 Engineering Review - Resubmittal: Sub in 1/14/25 - RB

Case Reviewer:Ryan Bente

1/30/2025 Engineering Review - Approved: Engineering Report approved 1/30/25. Determined GH is out of local floodplain, therefore Tort Soils requirement is null. No site-specific foundation required. AO2 Alluvial Fan so FFE up 3' above HANG

Case Reviewer:Ryan Bente



1/30/2025 Review - Note: Engr. approved, no site-specific foundation requirements (revised local FP showing high ground at proposed GH). Reassigned to SM to receive/review updated plan set w/o now-unnecessary foundation detail/associated calcs

Case Reviewer:Ryan Bente

2/4/2025 Review - Note: Review passed back to hydro from engineering. Awaiting revised plan set.

Case Reviewer:Stefanie Matthews

2/5/2025 Review - Request for Corrections: No Comments

Case Reviewer:Stefanie Matthews

2/19/2025 Application Intake - Resubmit: Approved drainage report shows that proposed area for guest house is outside of floodplain - no foundation requirements. Still within AO2 - alluvial, so 3' elevation is still required. Per RB, need el certs, but no as-built or specific covs.

Case Reviewer:Stefanie Matthews

2/20/2025 Review - Approved: Reviewed with FR - he asked that note about lowest FFE (including garage) and service equipment be added. Received permission from applicant to add these notes myself. D1FC1 uploaded to BP.

Case Reviewer:Stefanie Matthews

2/24/2025 Issuance - Issued - Documents Required: Signed FPUP received by email. Still need el certs.

Case Reviewer:Stefanie Matthews

6/16/2025 Documents - Documents Received: 6/16/2025 - P2S elcert approved. FFE is 1.0 ft above BFE. PJC

Case Reviewer:Philip Calabrese

11/26/2025 Documents - Documents Approved: P2F-El-cert reviewed and approved. FFE = 1.5' above BFE. IC 11/26/2025

Case Reviewer:Irene Castillo

11/26/2025 Close Out - Complete: No Comments

Case Reviewer:Deanna Reyes

FPUP #

DSD #

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 1-11

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
<p>A1. Building Owner's Name: _____</p> <p>A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____</p> <p>City: _____ State: <u>Arizona</u> ZIP Code: _____</p> <p>A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number: Taxcode: _____ Township _____ Range _____ Section _____</p> <p>A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): _____</p> <p>A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983 <input type="checkbox"/> WGS 84</p> <p>A6. Attach at least two and when possible four clear photographs (one for each side) of the building (see Form pages 7 and 8). <i>Pima County Regional Flood Control District requires four (4) photographs</i></p> <p>A7. Building Diagram Number: _____</p> <p>A8. For a building with a crawlspace or enclosure(s):</p> <p style="margin-left: 20px;">a) Square footage of crawlspace or enclosure(s): _____ sq. ft.</p> <p style="margin-left: 20px;">b) Is there at least one permanent flood opening on two different sides of each enclosed area? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p style="margin-left: 20px;">c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade: Non-engineered flood openings: _____ Engineered flood openings: _____</p> <p style="margin-left: 20px;">d) Total net open area of non-engineered flood openings in A8.c: _____ sq. in.</p> <p style="margin-left: 20px;">e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructions): _____ sq. ft.</p> <p style="margin-left: 20px;">f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): _____ sq. ft.</p> <p>A9. For a building with an attached garage:</p> <p style="margin-left: 20px;">a) Square footage of attached garage: _____ sq. ft.</p> <p style="margin-left: 20px;">b) Is there at least one permanent flood opening on two different sides of the attached garage? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p style="margin-left: 20px;">c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: Non-engineered flood openings: _____ Engineered flood openings: _____</p> <p style="margin-left: 20px;">d) Total net open area of non-engineered flood openings in A9.c: _____ sq. in.</p> <p style="margin-left: 20px;">e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructions): _____ sq. ft.</p> <p style="margin-left: 20px;">f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): _____ sq. ft.</p>	<p>Policy Number: _____</p> <p>Company NAIC Number: _____</p>
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION	
<p>B1.a. NFIP Community Name: <u>Pima County</u> B1.b. NFIP Community Identification Number: <u>040073</u></p> <p>B2. County Name: <u>Pima County</u> B3. State: <u>Arizona</u> B4. Map/Panel No.: <u>04019C</u> B5. Suffix: _____</p> <p>B6. FIRM Index Date: <u>09/28/2012</u> B7. FIRM Panel Effective/Revised Date: _____</p> <p>B8. Flood Zone(s): _____ B9. Base Flood Elevation(s) (BFE) (Zone AO, use Base Flood Depth): _____</p> <p>B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9: <input type="checkbox"/> FIS <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other: _____</p> <p>B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____ Highest Adjacent Natural Grade (=100.0 ft)</p> <p>B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: <u>N/A</u> <input type="checkbox"/> CBRS <input type="checkbox"/> OPA</p> <p>B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 1-11

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

FOR INSURANCE COMPANY USE

City: _____ State: Arizona ZIP Code: _____

Policy Number: _____

Company NAIC Number: _____

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, A99. Complete Items C2.a–h below according to the Building Diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: _____ Vertical Datum: _____

PCRFCFD Note: When HANG is used as Datum, fill out "Vertical Datum" as "LOCAL"

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

NGVD 1929 NAVD 1988 Other: _____

Datum used for building elevations must be the same as that used for the BFE. Conversion factor used? Yes No

If Yes, describe the source of the conversion factor in the Section D Comments area.

Check the measurement used:

a) Top of bottom floor (including basement, crawlspace, or enclosure floor): _____ feet meters

b) Top of the next higher floor (see Instructions): _____ feet meters

c) Bottom of the lowest horizontal structural member (see Instructions): _____ feet meters

d) Attached garage (top of slab): _____ feet meters

e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area): _____ feet meters

f) Lowest Adjacent Grade (LAG) next to building: Natural Finished _____ feet meters

PCRFCFD Note : Indicate lowest adjacent natural grade (LANG) in Section D.

g) Highest Adjacent Grade (HAG) next to building: Natural Finished _____ feet meters

PCRFCFD Note : Indicate highest adjacent natural grade (HANG) in Section D.

h) Finished LAG at lowest elevation of attached deck or stairs, including structural support: _____ feet meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

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

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

Check here if attachments and describe in the Comments area.

Certifier's Name: _____ License Number: _____

Title: _____

Company Name: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

Signature: _____ Date: _____

Telephone: _____ Ext.: _____ Email: _____

Place Seal Here

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

Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachments):

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 1-11

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

City: _____ State: Arizona ZIP Code: _____

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE)

For Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. For Items E1–E4, use natural grade, if available. If the Certificate is intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, enter meters.

Building measurements are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whether the measurement is above or below the natural HAG and the LAG.

a) Top of bottom floor (including basement, crawlspace, or enclosure) is: _____ feet meters above or below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is: _____ feet meters above or below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (C2.b in applicable Building Diagram) of the building is: _____ feet meters above or below the HAG.

E3. Attached garage (top of slab) is: _____ feet meters above or below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is: _____ feet meters above or below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown The local official must certify this information in Section G.

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

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

Check here if attachments and describe in the Comments area.

Property Owner or Owner's Authorized Representative Name: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

Signature: _____ Date: _____

Telephone: _____ Ext.: _____ Email: _____

Comments: _____

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 1-11

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

FOR INSURANCE COMPANY USE

City: _____ State: Arizona ZIP Code: _____

Policy Number: _____

Company NAIC Number: _____

SECTION G – COMMUNITY INFORMATION (RECOMMENDED FOR COMMUNITY OFFICIAL COMPLETION)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Section A, B, C, E, G, or H of this Elevation Certificate. Complete the applicable item(s) and sign below when:

- 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 state law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2.a. A local official completed Section E for a building located in Zone A (without a BFE), Zone AO, or Zone AR/AO, or when item E5 is completed for a building located in Zone AO.
- G2.b. A local official completed Section H for insurance purposes.
- G3. In the Comments area of Section G, the local official describes specific corrections to the information in Sections A, B, E and H.
- G4. The following information (Items G5–G11) is provided for community floodplain management purposes.
- G5. Permit Number: _____ G6. Date Permit Issued: _____
- G7. Date Certificate of Compliance/Occupancy Issued: _____
- G8. This permit has been issued for: New Construction Substantial Improvement
- G9.a. Elevation of as-built lowest floor (including basement) of the building: _____ feet meters Datum: _____
- G9.b. Elevation of bottom of as-built lowest horizontal structural member: _____ feet meters Datum: _____
- G10.a. BFE (or depth in Zone AO) of flooding at the building site: _____ feet meters Datum: _____
- G10.b. Community's minimum elevation (or depth in Zone AO) requirement for the lowest floor or lowest horizontal structural member: _____ feet meters Datum: _____
- G11. Variance issued? Yes No If yes, attach documentation and describe in the Comments area.

The local official who provides information in Section G must sign here. *I have completed the information in Section G and certify that it is correct to the best of my knowledge. If applicable, I have also provided specific corrections in the Comments area of this section.*

Local Official's Name: _____ Title: _____

NFIP Community Name: _____

Telephone: _____ Ext.: _____ Email: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

Signature: _____ Date: _____

Comments (including type of equipment and location, per C2.e; description of any attachments; and corrections to specific information in Sections A, B, D, E, or H):

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 1-11

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

FOR INSURANCE COMPANY USE

City: _____ State: Arizona ZIP Code: _____

Policy Number: _____

Company NAIC Number: _____

SECTION H – BUILDING'S FIRST FLOOR HEIGHT INFORMATION FOR ALL ZONES (SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY)

The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood zones to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). **Reference the Foundation Type Diagrams (at the end of Section H Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section.**

H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Grade (LAG):

a) **For Building Diagrams 1A, 1B, 3, and 5–8.** Top of bottom _____ feet meters above the LAG floor (include above-grade floors only for buildings with subgrade crawlspaces or enclosure floors) is:

b) **For Building Diagrams 2A, 2B, 4, and 6–9.** Top of next _____ feet meters above the LAG higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is:

H2. Is **all** Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated by the H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram?

Yes No

SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. *The statements in Sections A, B, and H are correct to the best of my knowledge.* **Note:** If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G.

Check here if attachments are provided (including required photos) and describe each attachment in the Comments area.

Property Owner or Owner's Authorized Representative Name: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

Signature: _____ Date: _____

Telephone: _____ Ext.: _____ Email: _____

Comments: _____

ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 1-11
BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

City: _____ State: Arizona ZIP Code: _____

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

Instructions: Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of townhouses/rowhouses). Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." Photographs must show the foundation. When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.

Insert Photo Here

Photo One

Photo One Caption:

Insert Photo Here

Photo Two

Photo Two Caption:

ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 1-11
BUILDING PHOTOGRAPHS

Continuation Page

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

City: _____ State: Arizona ZIP Code: _____

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

Insert the third and fourth photographs below. Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.

Insert Photo Here

Photo Three

Photo Three Caption:

Insert Photo Here

Photo Four

Photo Four Caption: