



Archuleta County
 Development Services—Planning Department
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Floodplain Development Permit Checklist—Attach to Land Use Permit

Section 10 of the Archuleta County Land Use Regulations requires approval of a Floodplain Development Permit, in compliance with FEMA and State of Colorado regulations, before any "Development" in a Special Flood Hazard Area (SFHA) or floodplain, and area removed by a FEMA Letter of Map revision Based on Fill (LOMR-Fill)—including filling, grading, dredging, stockpiling materials or mining; new construction or substantial improvement; or change of use.

PROJECT APPLICANT: _____

REPRESENTATIVE: _____

SURVEYOR (IF DIFFERENT FROM ABOVE): _____

ENGINEER (IF DIFFERENT FROM ABOVE): _____

CONTRACTOR (IF DIFFERENT FROM ABOVE): _____

PROPERTY OWNER (IF DIFFERENT FROM ABOVE): _____

Section 10.3.1 provides for certification that natural ground is above the base flood elevation.

I, _____, licensed surveyor or engineer, certify that this structure, improvement, or development site proposed is entirely outside the Special Flood Hazard Area (zones A, AE, AH, AR, and/or A99) and as such, does not require an Elevation Certificate. You may skip the rest of this application).



 Signature

 Title

PROJECT DESCRIPTION (check all that apply)

- | | | |
|-------------------------------------------------|---------------------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Residential | <input type="checkbox"/> New Construction | <input type="checkbox"/> Bridge/Culvert |
| <input type="checkbox"/> Manufactured Home | <input type="checkbox"/> Substantial Improvement (>50%) | <input type="checkbox"/> Fill/Levee |
| <input type="checkbox"/> Ag/Accessory Structure | <input type="checkbox"/> Improvement (<50%) | <input type="checkbox"/> Mining |
| <input type="checkbox"/> Non-Residential | <input type="checkbox"/> Rehabilitation | <input type="checkbox"/> River Restoration |

PROJECT NAME: _____ PROJECT NUMBER: _____

Continued on reverse

FLOOD HAZARD DATA

Watercourse Name _____

FIRM Map Panel # _____ Zone _____ FIS Profile? Yes / No

Nearest Cross Sections (detailed study) _____ Flood Velocity _____

Base Flood Elevation (BFE) established by Surveyor _____

Lowest Floor Elevation _____ Crawlspace? Yes / No

The following information is attached:

- Improvement Location Certificate (ILC) completed by a Colorado-registered Surveyor, with location of watercourse, river banks and proposed improvements (Plan/Plat if Application for Subdivision Review).
- Building floor plans and elevations, to scale.
- Elevation Certificate completed by a Colorado-registered Surveyor, Engineer or Architect (Sections A-D); or
- Floodproofing Certificate for qualified non-residential construction.
- Narrative for non-structural projects (i.e. filling, grading, mining or change of use) demonstrating project will not affect flood carrying capacity.

Proposed Development meets the following standards in Section 10 of the Land Use Regulations (check all that apply, explain in an attached narrative if necessary):

- 10.3.2.1 Anchoring (1) All new construction and substantial improvements anchored.
- 10.3.2.1 Anchoring (2) Manufactured home elevated and anchored.
- 10.3.2.2 Construction with flood-resistant materials and utility equipment.
- 10.3.2.3 Utilities elevated above BFE, designed to minimize infiltration of floodwaters.
- 10.3.2.4 Subdivision proposals/site development minimizes flood damage.
- 10.3.2.5 Under-structure parking, building access or storage automatically equalizes hydrostatic flood forces (Sec 60.3(c)(5) NFIP Regulations) – *See next section below.*
- 10.3.3.1 Lowest inhabited floor, including basement, elevated to one (1) foot above BFE.
- 10.3.3.2 Non-residential structure floodproofed below one (1) foot above BFE.
- 10.3.3.3 Manufactured homes elevated or placed on elevated piers as required.
- 10.3.3.4 On property removed from the Floodplain by Fill, structures elevated / floodproofed to one foot above BFE that existed prior to LOMR-F.
- 10.3.3.5 Critical Facility designed to Rule 6 of *Rules and Regulations for Regulatory Floodplains in Colorado.*
- 10.3.4.1 Any encroachment in a designated Floodway includes a technical evaluation by a registered professional engineer demonstrating NO increase in Base Flood.
- 10.3.4.2 All new construction and substantial improvement in a designated Floodway complies with all flood hazard reduction provisions.
- 10.3.4.3 In SFHA with no regulatory floodway designated (i.e. undefined Zone A), no encroachment increases Base Flood level more than ½ foot.

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Any proposed construction with **uninhabited levels below BFE** allow passage of floodwaters:

- Agricultural or Accessory structure constructed with no more than two closed sides.

The following section to be completed by an Architect or Professional Engineer
(check all that apply):

- Building plans prepared by a Colorado registered professional engineer, in conformance with FEMA guidelines and FEMA approved methods.
- Below-grade crawlspace only proposed where flood velocity does not exceed 5 fps, with interior grade no more than 2 feet below lowest adjacent exterior grade (LAG), and total height of crawlspace no more than 4 feet at any point.
- Openings in Foundation Walls are in accordance with *FEMA Technical Bulletin 1*.
- Engineered Openings include certification by a professional engineer or ICC-ES.
- Where flood velocities exceed 5 feet per second, foundation is designed to withstand hydrodynamic loads and potential for debris impact and scour.
- Flood damage-resistant construction materials are specified below BFE in accordance with *FEMA Technical Bulletin 2*.
- Non-residential structure floodproofed in accordance with *FEMA Technical Bulletin 3*.
- Structures built on fill or back-fill added to site, are in accordance with *FEMA Technical Bulletin 10*.
- Fill material to be compacted to at least 95% of Standard Laboratory Maximum Dry Density (Standard Proctor), according to ASTM Standard D-698.
- Crawlspace construction is in full accordance with *FEMA Technical Bulletin 11*.
- Drainage system, capable of draining floodwaters within 72 hours, specified on plans.

Signature

Title

I have reviewed the Archuleta County Floodplain Regulations (Section 10 of the *Archuleta County Land Use Regulations* adopted May 23, 2006, as revised) and have had the opportunity to review the National Flood Insurance Program Regulations to insure full compliance with Federal, State, and local regulations. I acknowledge that this property is located in a Special Flood Hazard Area and that approval of a Floodplain Development Permit does not guarantee the property will not experience future flood damage.

Applicant's Signature

Date

PERMIT ACTION BY FLOODPLAIN ADMINISTRATOR

PERMIT APPROVED: _____ DATE: _____

PERMIT DENIED: _____ DATE: _____

DEVELOPMENT DOCUMENTATION

(For Office Use Only)

_____ **MAP REVISION DATA.** Certified documentation by a registered professional engineer of as-built conditions for floodplain alterations were received and submitted to FEMA for a flood insurance map revision.

_____ **FILL CERTIFICATE.** A community official certified the elevation, compaction, slope and slope protection for all fill placed in the flood plain consistent with NFIP regulations Part 65.5 for flood insurance map revisions.

_____ **ELEVATION CERTIFICATE.** Certified as-built elevation of the building's lowest floor _____; floodproofing level _____. An Elevation Certificate completed by a registered professional engineer or land surveyor certifying this elevation is on file.

_____ **VARIANCE GRANTED:** A variance was granted from the base (100-year) flood elevations established by FEMA consistent with variance requirements of NFIP regulations Part 60.6 (variance action documentation is on file).

_____ **CERTIFICATE OF OCCUPANCY OR COMPLIANCE ISSUED** _____
Date