



**OREGON REGISTERED SURVEYOR OR ENGINEER:**

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

License or Registration # \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_ Fax: \_\_\_\_\_

\*\*\*\*\*

**THE BURDEN OF PROOF FOR APPROVAL OF AN APPLICATION RESTS WITH THE APPLICANT.**

\*\*\*\*\*

1. Proposed Use or Construction Activity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Current Use of Property: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Use of Property to the:

North: \_\_\_\_\_

South: \_\_\_\_\_

East: \_\_\_\_\_

West: \_\_\_\_\_

4. Street Access: \_\_\_\_\_

\_\_\_\_\_

5. Vegetation and Topography of Subject Property: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\*\*\*\*\*

FLOODPLAIN INFORMATION:

\*\*\*\*\*

1. What river, creek, or stream runs through or next to your property?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. FIRM panel number: \_\_\_\_\_, Provide a copy of the portion of the panel where the property is located, clearly and accurately showing the outline of the property lines on the floodplain map.

3. Is any portion of the property in a mapped floodway? Yes \_\_\_\_\_ No \_\_\_\_\_. If yes, provide a copy of the floodway panel (same panel number, but showing floodway instead of base flood elevations) with the property and any existing structures accurately located on the map.

4. What is the 100-Year base flood elevation (BFE)? \_\_\_\_\_. How was the elevation determined? (If no BFE is shown on the FIRM, go to #5 below.)

\_\_\_\_\_ Directly from elevations shown on the map.

\_\_\_\_\_ Cross-section \_\_\_\_\_ on the floodway map and associated table # \_\_\_\_\_.

\_\_\_\_\_ Interpolated between two given elevations or cross sections.

\_\_\_\_\_ Other engineer's calculation (Please document the calculation on a separate sheet with the Engineer's signature and stamp.)

5. When no BFE is shown on the FIRM maps, the floodplain is known as an approximate floodplain or Zone A and is indicated by gray shading on the map. For Zone A floodplains, an Engineer must develop an estimate of the 100-year flood elevation, basing the estimate on a combination of hydrology calculations and survey and cross section data about your specific property. Attach a calculation sheet, documenting the methods and assumptions used to estimate the flood elevation. Illustrate the results on a cross section of the property.

6. Any area adjacent to a stream, even if the flow is intermittent, can be flood prone. For areas that are not mapped in Zone A, stream crossings (bridge, culvert, fence,...) are subject to floodplain review. If any structures on the property have sustained damage from flooding or if water approaches the foundation during rain events, all new development is also subject to floodplain review. Please follow the instructions for estimating flood elevations as for Zone A, above.

7. What is the elevation of the ground at the proposed development location? \_\_\_\_\_  
Has a benchmark been placed on the property for use during construction? Yes \_\_\_\_\_ No \_\_\_\_\_.  
If yes, at what elevation is it? \_\_\_\_\_ Where and what is it? \_\_\_\_\_

\_\_\_\_\_

Be sure the benchmark is indicated on the plot plan, by describing the reference mark used to derive the elevations, as well as the ground elevation, the benchmark elevation, and the proposed lowest habitable floor elevation.

8. Describe the location of any dikes, levees, irrigation ponds or equipment or other water control structures. Who is responsible for their operation and maintenance? Are there inlet or outflow controls associated with these structures? Show them on the plot plan and in cross section(s).

---

---

---

---

---

9. List and identify other development and structures (roads, culverts, bridges, fences, structures of any kind) downstream ¼ mile that might be impacted if flooding occurs on this property. Demonstrate how your proposal reduces the possibility and/or severity of damage downstream if your structures fail or otherwise affect the flood elevation.

---

---

---

---

---

10. Please attach a detailed written and pictorial description of the proposed development:

- a. Placement of lowest habitable floor at least one foot above BFE;
- b. Anchoring and other techniques to prevent damage to the proposed structure during a flood event;
- c. Techniques to prevent loss of structural components that could create a debris hazard downstream during a flood event;
- d. Considerations taken to prevent accumulation of debris carried by a flood against the proposed structure;
- e. No-rise in base flood elevation during a flood event (0.0" above BFE);
- f. Restrictions on development in the floodway.

11. Will you be using more than eight (8") inches of fill to elevate the proposed structure? Yes\_\_\_\_\_ No\_\_\_\_\_. If you answered yes, the fill design must be engineered for review and approved by the Jefferson County Community Development Department - Building Division.

- a. Describe the volume, type and method of placement.

---

---

---

---

---

- b. What effect will the fill have on the base flood elevation?

---

---

---

---

- c. Will the fill be placed in the floodway? Yes \_\_\_\_ No \_\_\_\_ . If so, demonstrate that no-rise in the BFE will occur?

---

---

---

---

---

12. The Flood Insurance Rate Map (FIRM) may not be completely accurate for your particular property. However, they are the regulatory, e.g. mapped, floodplain that the City must use to review development in the floodplain. If you believe your property is not accurately portrayed by these maps, a formal application (by you) for "Letter of Map Amendment or Letter of Map Revision" can be prepared and submitted to FEMA.
13. In many cases, development in the floodplain may also have an effect on riparian vegetation and be subject to special setbacks. Your plot plan map should include information on stream banks, their height and location and also identify trees and vegetation on your property near the stream banks.

\*\*\*\*\*

Return To: City of Madras  
Community Development Department  
71 SE 'D' Street  
Madras, Oregon  
Phone: 541-475-3388  
Fax: 541-475-3959