

REQUIREMENTS FOR CONSTRUCTION IN GEOLOGICALLY HAZARDOUS AREAS  
STEP 2 – Geotechnical Design Review / Permit Issuance Form



**GEOTECHNICAL FORM FOR PERMIT ISSUANCE:** TO BE COMPLETED BY A STATE OF WASHINGTON LICENSED ENGINEER QUALIFIED IN THE SPECIALTY OF GEOTECHNICAL ENGINEERING AND SUBMITTED PRIOR TO PERMIT ISSUANCE **ATTACHED AS A PART OF A LETTER FROM THE GEOTECHNICAL ENGINEER** BEARING THE ENGINEER'S SEAL.

Project Name: \_\_\_\_\_

Planning/Building Permit #: \_\_\_\_\_

Applicant's Name: \_\_\_\_\_ Applicant's Telephone #: \_\_\_\_\_

Project Street Address or Location: \_\_\_\_\_

Geotechnical Engineer's Name & License #: \_\_\_\_\_

Engineer's Phone #: \_\_\_\_\_

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

This form is required prior to issuance of the permit. At the time of permit issuance, the recommendations of the Geotechnical Engineer are required to be incorporated into the project plans. This form is to facilitate your assurance that you reviewed the plans and found your recommendations in them.

- 1) "I have reviewed the plans and design elements related to the geotechnical aspects of the project and have observed field staked locations of proposed structures subject to the recommendations of the Geotechnical Report. I have found the plans, design and locations to be in general accordance with the recommendations of the Geotechnical Report."

*I agree with the above statement:* Initial: \_\_\_\_\_

State any variations from your original recommendations in implementing these plans:

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2) In accordance with Chapter 16.20.130 of the City of Bainbridge Island Municipal Code, the Geotechnical Engineer must be able to make the following statements regarding implementation of their recommendations in the plans. Concurrence with the following statements shows that they meet the requirements of the City of Bainbridge Island Municipal Code; please initial each of the below statements if you fully concur that they have been met in your professional opinion:

- a. *The proposed activity shall not create a net increase in geological instability, either on-site or off-site, which is defined as follows:*
  - i. *The subject parcel shall not be less stable after the planned development than before; and*
  - ii. *The adjacent parcels shall not be less stable after the planned development than before.*

Initial: \_\_\_\_\_

- b. *The proposed activity shall not increase the risk of life safety due to geological hazards above professionally acceptable levels\**

Initial: \_\_\_\_\_

- c. *The proposed activity shall not increase the risk due to geological hazards above professionally acceptable levels\* for:*
  - i. *Property loss of any habitable structures or their necessary supporting infrastructure on-site; or*
  - ii. *Risk to any off-site structures or property of any kind.*

Initial: \_\_\_\_\_

- d. *Proposed buildings shall be constructed using appropriate engineering methods that respond to the geological characteristics specific to the site in order to achieve the highest standard of safety feasible\*\*.*

Please explain how this requirement has been met:

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Pursuant to BIMC 16.20.130, the City Engineer will generally accept:

\*a “professionally acceptable level” of risk as a static factor of safety of 1.5 for new construction or 1.25 for remodel, and a seismic factor of safety of 1.0 for the design earthquake (using the USGS 2002 probabilistic ground motion values for 2% in 50 years)

\*\*the “highest standard of safety feasible” has been achieved if all buildings are designed to meet the IBC as appropriate to withstand all events up to the above defined “professionally acceptable level” of risk and a reasonable explanation is provided.

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- 3) The Engineering Department requires the Geotechnical Engineer to communicate the overall risk of failure and impact to the proposed structures in a quantified manner, along with the level of certainty in this quantification. This quantification may be a factor of safety or some other quantification acceptable to the City Engineer and needs to communicate to the owner (and future owners) an understandable, estimated, or calculated risk to or from their proposed activities or structures in some relevant time frame (often the lifetime of the structure).

Please provide your determination of the above required level of risk here:

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- 4) Storm-water:

- a. **Landslide hazard areas or erosion hazard areas.** I confirm that the Erosion and Sediment Control Plan in the application dated \_\_\_\_\_ ( N/A) is in accordance with my recommendations.
- b. **Landslide hazard areas, erosion hazard areas, area of influence.** I confirm that the Surface & Storm Water Management Plan in the permit application dated \_\_\_\_\_ ( N/A) is in accordance with my recommendations.

- 5) Address any special geotechnical conditions requested by the City after the City's review of the geotechnical report and permit application forms here (attach more sheets as needed and any supporting documentation):

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## SUBMITTAL REQUIREMENTS

**Two (2)** copies of the completed forms, **two (2)** copies of the recorded indemnification forms, two (2) copies of all supporting documents (Geotechnical analysis, erosion, and sediment control plan, etc.).

**Proposals will not be considered further for each step of the permit until form packets are complete.**