



Building Services  
808 West Spokane Falls Blvd  
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(509) 625-6300

**BUILD-09**  
**Footings/Foundations**  
**on Solid Rock**

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In general, footings and foundation shall be constructed of masonry, concrete, or treated wood, and shall extend below the frost line (24 inches below finished grade).

In the event that massive crystalline bedrock is encountered when excavating for the footing, the following shall be permitted:

*Condition #1: Footing for entire structure is supported by bedrock.*

When footing for the entire structure is supported by bedrock, footing depth can be reduced to 12 inches below finished grade, providing measures are taken to resist lateral sliding.

*Condition #2: Footings are supported partially by bedrock and partially by expansive soil.*

When bedrock is encountered within a portion of the footing area, the bedrock shall be over-excavated by 12 inches in depth, and 12 inches of compacted structural fill placed in the excavation where the bedrock was encountered. The entire footing shall extend a minimum of 24 inches below finished grade.

As an alternative, the footing and foundation may be designed by a structural engineer based on specific site conditions encountered.