



## Blasting and Rock-breaking Survey Requirements (2022)

A comprehensive topographic survey of the parcel (or the portion thereof) where the blasting is to be carried out, prepared by a B.C.L.S. or a professional engineer, is required in order to submit an application for a blasting and rock breaking/splitting permit. The following are to be included on the topographic survey:

- The survey perimeter, at a minimum, should be defined as a 3m setback from the aggregated area of the footprint formed by the exterior walls of the principle building and garage as shown on the building permit plans and 1m setback from the edge of driveway as shown on the building permit plans.
- The topographic survey shall have the dimensioned exterior walls of the principle building and garage, and edge of driveway, as shown on the building permit plans, overlaid.
- The rock removal areas shall be clearly defined (areas should be hatched or shaded) with depth of slab and over blast listed. This should be overlaid on the topographic survey.

Documentation on how the B.C.L.S or professional engineer verified the amount of material proposed to be removed is required. This can include:

- Hand calculations using plan areas and average depths of cut.
- A 3D view (or object view) of the site clearly showing the areas where bedrock removal is to occur.
- If computer software is used, a print off including the proposed net volume, plan area and average depth of cut will be deemed acceptable.

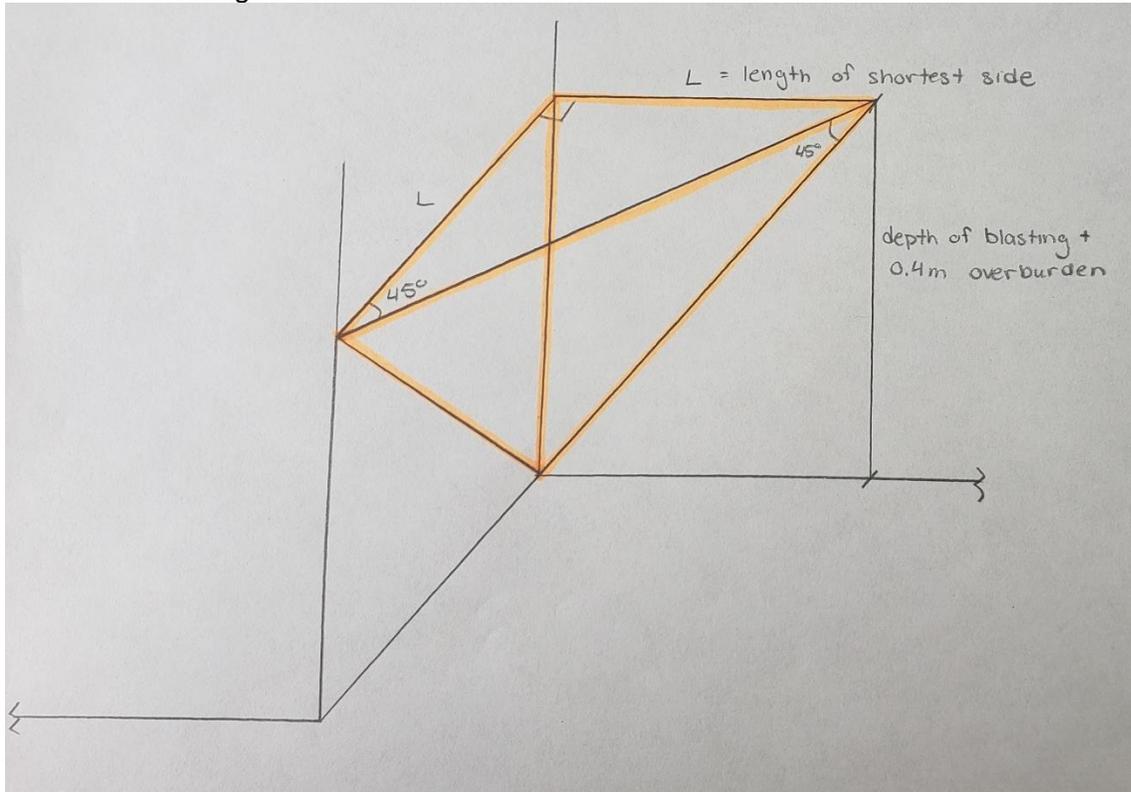
The amount of material proposed to be removed shall include:

- A setback of 1m from the exterior walls of the principle building and garage as shown on the building permit plans to the depth of the approved slab;
- 0.4m below the slab for the aggregated area of the footprint formed by the exterior walls of the principle building and garage as shown on the building permit plans;
- Truncation of all interior corners to remove 90 degree angles in order to account for potential over break. Please see attached Figure 1 for a schematic of this material removal volume.

The blasting and rock breaking areas shall be clearly marked on site with the depth of removal indicated for approval by the Land Development Engineer prior to issuance of the blasting permit. The method of marking should not be removed by inclement weather. This is to ensure that all rock removal is completed within the pre-approved areas and provides boundaries for the blasting or rock breaking/splitting contractors

Figure 1: Truncation of all Interior Corners Volume

View 1: View from outside the building looking into an interior corner. Additional removal volume is outlined in orange.



View 2 & 3: Plan and Section A-A View of the removal area.

