

October 3, 2023

Kittitas County Community Development Services
411 N Ruby St., Suite 2
Ellensburg WA 98926

RE: Conceptual Block Wall at 280 Wilderness Lane Easton, WA

To Whom It May Concern:

Introduction

As part of follow up to renovation work at the property and further inspection, we have concluded that a retaining wall is necessary and can be located on the property to achieve the necessary objective of stabilizing the slope along the north side of the house. Refer to previous reports dated 6/12/23 and 7/27/23 for conclusion reference.

Concept

We propose installing a gravity type block wall such as the Redi Rock product. The wall is initially estimated to be 70-ft long and 15-ft high maximum. See Figure 1 Site Plan with conceptual wall location.

Due to the following site conditions:

- Observed soil movement along slope
- Cracked foundation
- Heavy seasonal loading of snow shedding from roofline

We recommend a positive connection wall with geogrid reinforcement geogrid.
See Figure 2 Block wall reinforced design.

Conclusions

This design approach will aid in supporting soil mass and providing bearing support for the column/foundation for the modified decking and roofline. See Figure 3 Site Photos and Block Wall Examples.

We look forward to preparing a final design as structural elements are further defined and permitting requirements are understood.

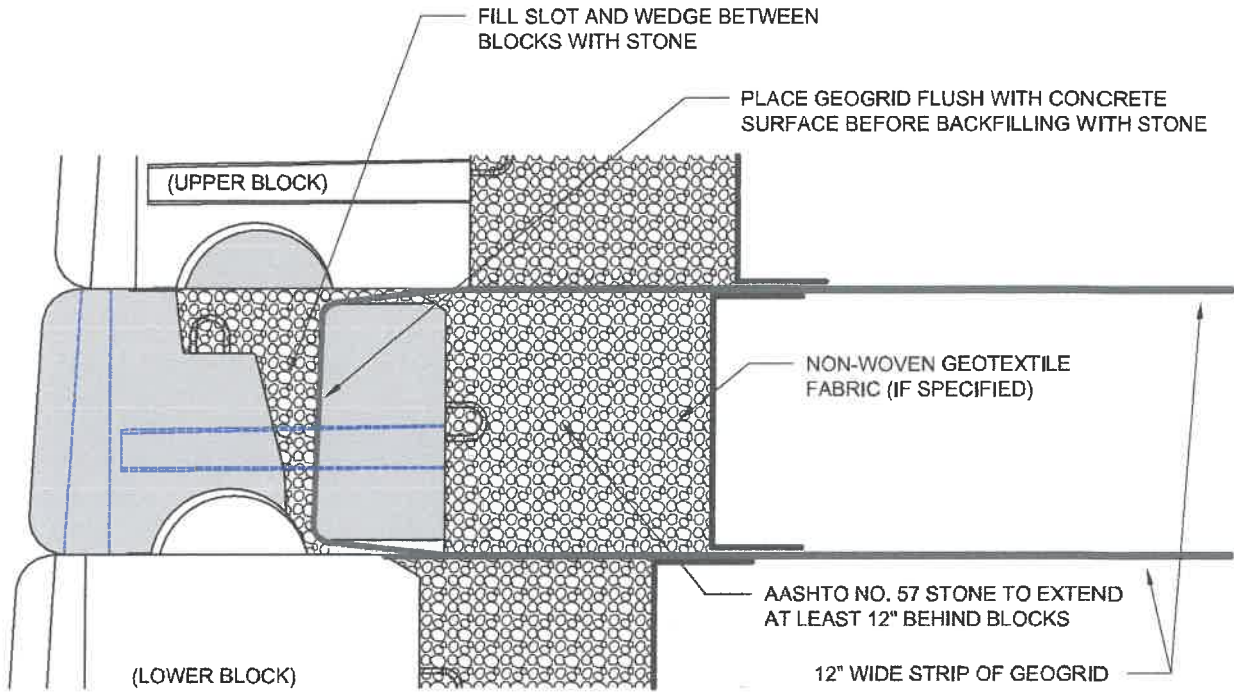
Sincerely,

Omar C. Fulton, P.E.

GROUND AFFECT, Inc.
531 Meadow View Dr.
Ellensburg, WA 98926
425 830 9219

POSITIVE CONNECTION (PC) DETAILS

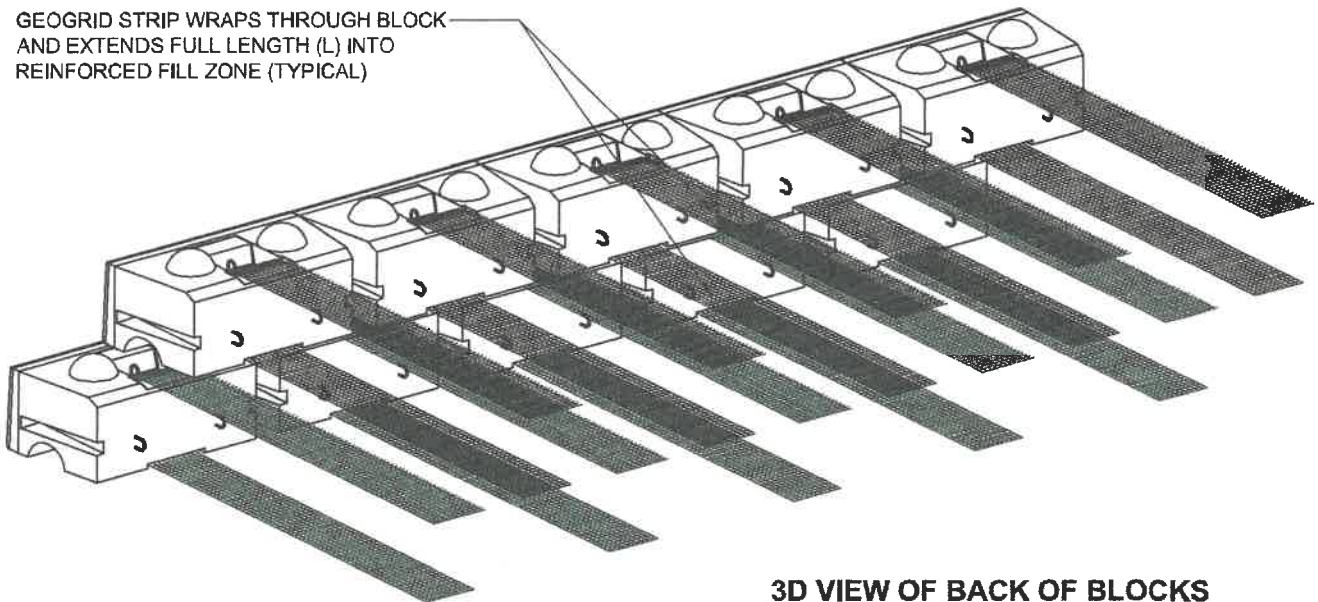
NO SCALE



SECTION VIEW THROUGH BLOCKS

NO SCALE

GEOGRID STRIP WRAPS THROUGH BLOCK AND EXTENDS FULL LENGTH (L) INTO REINFORCED FILL ZONE (TYPICAL)



3D VIEW OF BACK OF BLOCKS

NO SCALE

DRAWN BY:	JRJ
APPROVED BY:	JRJ
DATE:	06-22-2015
SHEET:	1 of 1

TITLE:	Positive Connection Detail
FILE:	

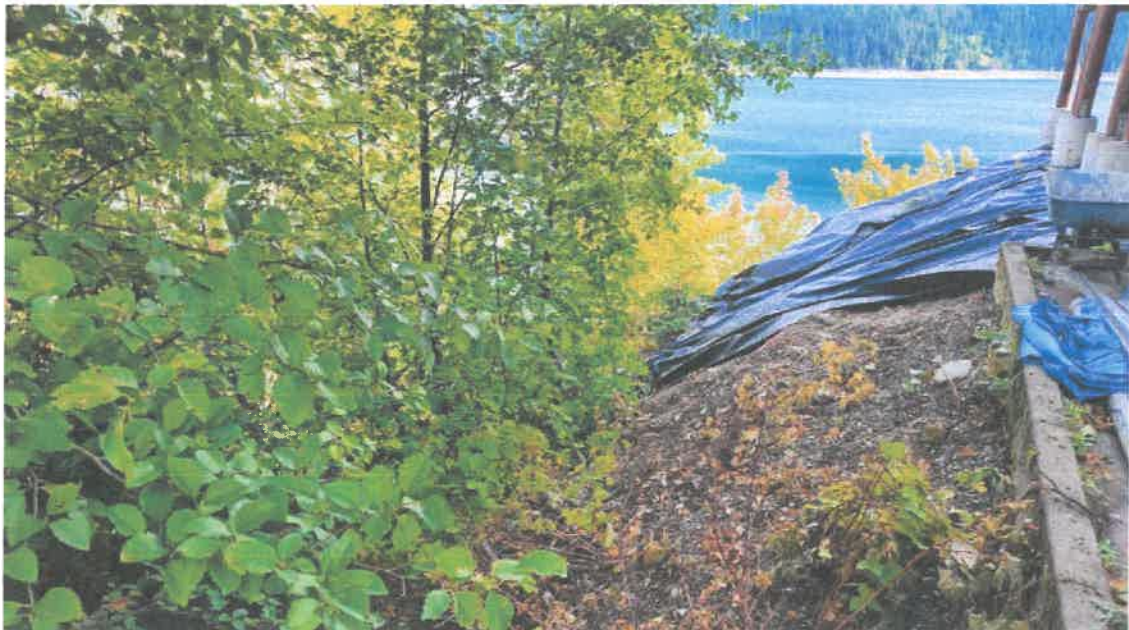
REDI-ROCK

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www.redi-rock.com

SITE PHOTOS



Looking west along north wall, demolition work continues and protecting slope with plastic.



Looking east along north side of property where steep slope exists. Block wall would extend east into middle area of photo depending on soil/rock conditions.



Example of placing Redi Rock block wall



Example of Redi Rock block wall in alpine environment