

Project No. ANA23-022-00 (AND24-029-00)
January 23, 2026

Mr. Troy Vater
Development Manager
ASA Properties, LLC
2168 Oak Run Parkway, Suite 101
New Braunfels, Texas 78132

Raba Kistner, Inc.
1913 Post Road, Suite 645
New Braunfels, TX 78130
www.rkci.com

P 830.214.0544
F 830.214.0627
F-3257

**RE: Supplemental Letter
Precinct 18-1 Cut Wall
Veramendi Master Planned Development
New Braunfels, Texas**

Dear Mr. Vater:

Raba Kistner, Inc. is pleased to provide this supplemental letter to offer recommendations for a cut wall along Pennyroyal Lane in Precinct 18 Unit 1 of the Veramendi development. Our recommendations are based on the observation of the cut wall during a site visit by Mr. Santosh Shrestha, E.I.T. with RKI on January 21, 2026, Overall Grading Plan Sheet C7.04, and the information obtained from our Geotechnical Engineering Report No. ANA23-022-00 Revised on September 22, 2023. This letter is supplemental to and should not be used separately from the original report. All other recommendations and limitations remain as stated in the original report.

Based on our review of the exposed cut wall conditions – including the site plan, elevation and nearby boring logs (Boring B-7), it is our opinion that the cut wall is currently stable from a slope-stability perspective and may not require supplemental support or retention in order to stand vertical or near vertical. The observed cut wall currently exhibited no signs of instability, adverse discontinuities or raveling that would necessitate structural retention. However, this site is underlain by the Edwards Limestone formation which is typically karstic and may have variable degrees of weathering (i.e. fractures, voids, clay filled voids, caves, weathered material, or other solution features) which makes it prone to raveling over time.

Due to increased moisture conditions typically associated with fractures, tree roots and other vegetation tend to exploit these weaknesses in the rock outcrop and serve to enhance the rate of erosion. As tree roots, etc. proliferate through fractures, fractures are enlarged owing to both mechanical and chemical erosional processes. Raveling failures can be expected to occur more frequently when these conditions occur. This failure mechanism involves raveling of the rock/other material along fractures, bedding planes, seams, and other pre-existing planes of weakness, resulting in the separation of blocks, weathered material or soil. Cobble-to boulder-sized blocks will eventually become dislodged as the result of this process and fall from the cut wall. The raveling process can be exacerbated by the presence of existing dissolution or karstic features in the rock, and by discharge of perched groundwater, if any, through the face of the rock cut.

If the cut is left unprotected or unsupported, we recommend an adequate catchment/buffer area be provided at the toe to prevent rockfall from affecting adjacent improvements. A flat catchment area should be at least 0.5 times the height in width. In areas where adequate catchment cannot be provided due to right-of-way or other geometrical constraints, the slope should be protected from raveling and

differential erosion or laid back at a 1 Vertical to 1 Horizontal slope, or flatter. In addition to these protective measures, seepage, and surface water control to prevent stormwater from flowing over and down the face of the cut are essential in minimizing raveling and erosion. Note that leaving the cut unprotected may also require additional maintenance in the catchment/buffer area.

* * * * *

We appreciate the opportunity to be of continued service to you on this project. If you have any questions or need additional assistance, please call.

Very truly yours,

RABA KISTNER, INC.



Santosh Shrestha, E.I.T.
Graduate Engineer

SS/IM/alg

Copies Submitted: Above (1-Electronic)
 Attachments




Isaac Molina, P.E.
Geotechnical Department Manager

Veramendi Precinct 18 Unit 1 Cut Wall

**PHOTOGRAPH 1
PHOTOGRAPH OF CUT WALL
PHOTOGRAPH TAKEN BY RKI ON DATE JANUARY 21, 2026**



**PHOTOGRAPH 2
PHOTOGRAPH OF CUT WALL
PHOTOGRAPH TAKEN BY RKI ON DATE JANUARY 21, 2026**



Veramendi Precinct 18 Unit 1 Cut Wall

PHOTOGRAPH 3
PHOTOGRAPH OF CUT WALL
PHOTOGRAPH TAKEN BY RKI ON DATE JANUARY 21, 2026



PHOTOGRAPH 4
PHOTOGRAPH OF CUT WALL
PHOTOGRAPH TAKEN BY RKI ON DATE JANUARY 21, 2026

