

Develotec, Inc.

Consulting Engineers – Land Planners

MEMORANDUM

TO: REINALDO RIVERA
FROM: ART ACUÑA
SUBJECT: BL2023-1053
DATE: 8/11/2023
CC: FILE

RESPONSE TO STORM DRAINAGE REVIEW COMMENTS

The following are Develotec's responses to your review comments; item numbering corresponds to reviewer comment numbering:

1. Drainage calculations were incorrect (refer to revised drainage report):
 - a. $3732 \text{ ft}^3 = 0.086 \text{ Acre-feet}$
 - b. 80 LF exfiltration trench provides 0.865 acre-feet of treatment/storage
 - c. $0.865 \text{ acre-feet (provided storage)} > 0.086 \text{ acre-feet (required storage)}$
 - d. $\text{Safety factor} = 0.865 \div 0.086 = 10.1$
2. This determination is not valid; the site appears to be V-shaped only because the cross-section cutting across the property gives this impression. Given a) the shape of the site, b) the spread-out location of the existing and proposed trees and, c) the two driveway locations and layouts, the typical VOP 'flat' grading is not practical. This is the reason why drainage inlets and exfiltration trenches were designed. The site has been meticulously graded to flow towards the designed inlets. Please reconsider.
3. Requested header curb has been added to plans.

Art Acuña
for the firm