



Memorandum

Date: December 22, 2021

To: File

From: Steven W. Otten, PE

Subject: Sand Filter Berm Stability
Campos Subdivision
Serenity Drive, Middletown, RI

This is to verify that Northeast Engineers & Consultants (NE&C) has verified that the Sand Filter berm (SF-1) as shown on the "Proposed Grading and Drainage Plan", sheet C-6 is stable. NE&C's analysis assumed soil properties assuming the berms will be constructed with suitable material ($\gamma = 110$ pcf, $\phi = 30$ -32 degrees, assumed). Based on our analysis, the slope has a minimum Factor of Safety of 1.86.

If you have any questions or need further information, please do not hesitate to contact this office.

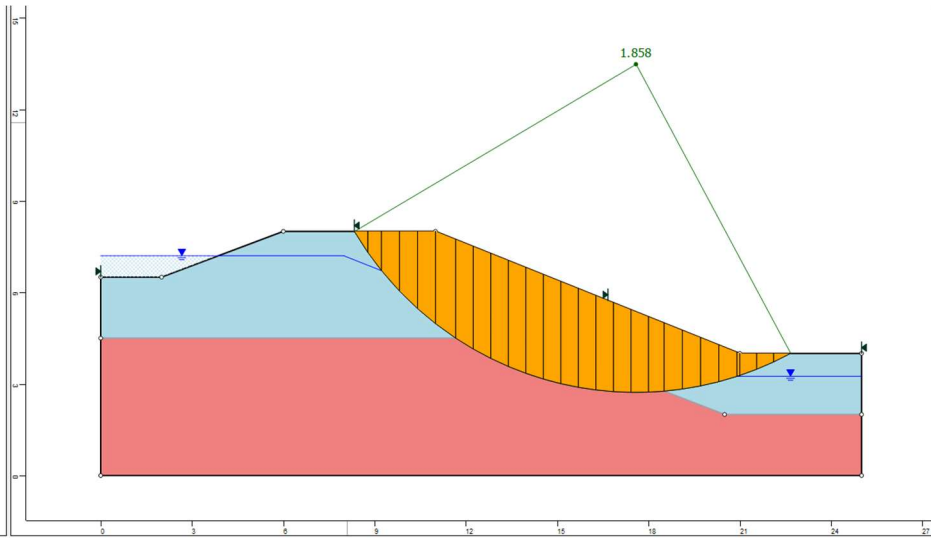
Sincerely,

Steven W. Otten, P.E.
Sr. Structural Engineer



HYRCAN 1.75
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Factor of Safety Info.
Method: Bishop Simplified
Min. FOS: 1.85765
Center: 17.5857,13.4757
Radius: 10.752
Left Surface Endpoint: 8.3325,8
Right Surface Endpoint: 22.6667,4



Slope Stability- Downstream Side