



***Northeast
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Memo

To: Town of Cape Elizabeth, Maine
From: Travis Letellier, P.E.
Date: 3/26/2020
Re: Low Impact Development Stormwater Treatment

The proposed project is subject to Low Impact Development (LID) stormwater requirements.

The total area of impervious cover will be reduced by 8,900 square feet, to a total of 16,200 square feet. This represents a drop of roughly 35% from the original 25,100 square feet that exist on the site currently.

The northeastern portion of the paved parking area naturally drains to the forested area of the lot. This forested area will act as a forested buffer to help promote infiltration and filter particulates.

In its existing conditions the remaining parking lot was curbed and directed stormwater to the street. The revised parking lot design eliminates any curbing which will allow stormwater to sheet flow off the pavement to the adjacent lawn areas.

The lawn area will act as a vegetated buffer which will slow down stormwater and promote infiltration and provide minimal treatment in the form of filtering.

Conclusion:

The peak stormwater flows will decrease on the site as part of this project by eliminating over a third of the impervious cover. Further reductions in peak flows will be achieved by eliminating the curb that concentrated the stormwater flow within the parking lot.

The LID requirement is met by directing stormwater to sheet flow off the parking lot to the adjacent vegetated buffers to promote infiltration and filtering.