

From: Medash, Kyle [mailto:Kyle.Medash@vermont.gov]
Sent: Thursday, August 26, 2021 4:03 PM
To: Scott Gustin <SGustin@burlingtonvt.gov>
Subject: RE: flood zone application

[WARNING]: This email was sent from someone outside of the City of Burlington.

Hi Scott,

Thanks for checking in. since these are not insurable structures and would be considered minor investments much of the flood hazard area regulations do not apply. The proposed deck and bridge will be located below the BFE and would be subject to the development standards for “all development” outlined in Article 4 of the Burlington CDO, Section 4.5.4 (f) (8.) (C.) (i-iii) which reads:

C. All development:

(i) New construction and/or substantial improvements to structures shall be reasonably safe from flooding and be:

1. Designed and adequately anchored to prevent flotation, collapse, or lateral movement during the occurrence of the base flood;
2. Constructed of materials resistant to flood damage;
3. Constructed by methods and practices that minimize flood damage; and
4. Constructed with electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding;

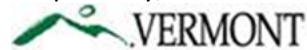
(ii) All development shall be designed to minimize flood damage to the proposed development and to public facilities and utilities;

(iii) All development shall be designed to provide adequate surface drainage to reduce exposure to flood hazards;

I think your analysis is correct in requesting the anchoring details demonstrating prevention of flotation, collapse, or lateral movement during base flood conditions at the site. Another recommendation would be to use pressure treated lumber or similar material resistant to inundation (flood resistant materials). The deck and bridge surface should be designed to drain (i.e gaps in the decking or slight slope for drainage). Any footings should be able to resist scour for the flood velocities at the site.

As always, other State, Federal or local permits may be required for this project. The VT DEC Permit Specialist for your region should be able to help identify any other State Environmental Permits that may be necessary. These comments are offered in accordance with 24 VSA §4424. Please let me know if you have any questions, I’m available to discuss further if you’d like.

Respectfully,



Kyle Medash | Western Floodplain Manager
Vermont Agency of Natural Resources | Department of Environmental Conservation
Watershed Management Division, Rivers Program
450 Asa Bloomer State Office Building, 88 Merchants Row | Rutland, VT 05701-5903
802-490-6154 cell