Addendum to **WPA Form 1**- Request for Determination of Applicability
Project Location: 68-70 Margaret Street, Arlington, MA
Applicants: Josiane and Joshua Goldshlag
November 1, 2019

In consideration of Commission concerns about Climate Change resiliency and Stormwater Management please be advised of the following responses:

Section 31 Climate Change Resiliency

1) **Describe project design considerations to limit storm and flood damage during extended periods of disruption and flooding as might be expected in extreme weather events.**
The upgraded heating/cooling system as provided within the scope of this project will withstand extended periods of disruption. It has been located at the third-floor level so that it sits above the Base Flood Elevation and above likely floodwaters.

2) **Describe project stormwater surface runoff, which may increase due to storm surges and extreme weather events, and how this will be managed / mitigated to prevent pollution (including nutrients from fertilizers, roadway runoff, etc.) from entering the resource area with consideration of eliminating impervious surfaces as feasible. See Stormwater Management Section 33 of these Regulations.**
The impervious surface area and stormwater roof runoff patterns will not change through this proposed project. It's not reasonable that impervious surface will be reduced as part of this project in that none is being added, but the property owner commits to reducing the use of fertilizer onsite.

3) **Describe project vegetation / planting plans and other measures to improve the resiliency of the wildlife habitat of the resource area to withstand potential temperature and rainfall changes (drought and excess) due to climate change. See Vegetation Removal and Replacement Section 24 of these Regulations.**
No vegetation changes are proposed as part of this project. As per above, the owner commits to not using fertilizer onsite.

4) **Describe measures to protect proposed structures and minimize damage to structures due to the impacts of climate change.**
This projectd proposes to build an addition vertically (raise the roof height) rather than add to the footprint horizontally so as to limit building footprint to what it currently is within the floodplain. Additionally, the project also improves the energy efficiency of the building by providing new R49 roof insulation throughout, new R20 wall insulation, and new windows and doors at areas of new construction and renovation. The siding on the entire building envelope is being replaced and upgraded to more durable materials and watertight installation

Section 33 Stormwater Management

A. **Work or activity specified in a request for determination of applicability or an application for a permit and subject to the Bylaw shall meet, at a minimum and to the extent practicable, the best management practices for stormwater management as set forth in the Stormwater Standards of the Massachusetts Department of Environmental Protection. The Commission may in its sole discretion require the applicant to provide a runoff plan and calculations using the "Cornell" method, and based on the ten-year, fifty-year and one-hundred-year-flood frequency event period. Calculations shall show existing and proposed runoff conditions for comparative purposes and include a**

narrative on the proposed project's impact on climate change resilience of the resource area (see Section 31).
Since the home footprint and stormwater runoff patterns will not change with this proposed project, a runoff plan and calculations are not reasonable. MassDEP lists several types of stormwater BMPs in its resource guide, "Volume 2 Chapter 2: Structural BMP Specifications for the Massachusetts Stormwater Handbook", including structural pretreatment BMPs, Treatment BMPs, Conveyance BMPs, Infiltration BMPs, Other BMPs, and BMP Accessories. Given the scope of this project, the limiting of fertilizer use onsite is practicable stormwater BMP.

B. The requirements of this section shall be met commensurate with the nature, scope, type, and cost of the proposed project or activity.
The proposed BMP outlined above is appropriate given the nature and scope of the proposed project.

Faith Baum
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November 1, 2019