

Mitigation Plan for

For a property located at

73-77 Cross Road
Ward Hill
Haverhill, MA 01835

Prepared for:

RKACO, LLC
1501 Main Street
Tewksbury, MA

DEP file # 33-1405

Prepared by:

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129 Route 125
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OVERVIEW:

The property at 73-76 Cross Road has been heavily impacted by commercial activities. There is a significant amount of paved area and the workshop is located ovetop of a Bordering "Vegetated" Wetland (BVW). All of the 25-foot no-disturb zone in this area is also impacted by the pavement and building. The precise amount of current impacts will be determined when the building is removed. An assessment of potential contamination will also be conducted at that time. We do know that the proposed project will result in a reduction in impervious surfaces (buildings and pavement) of 9,541 square feet. Additionally, a significant amount of solid waste material such as steel girders, roadside signs, metal automobile parts, etc. will be removed.

The proposed project will result in an overall improvement of the resource area (BVW) and will create an additional approximate 15,000 square feet of no-disturb zone in areas now dominated by pavement and buildings. The applicant is looking for a waiver to impact 160 square feet of no-build zone and proposes the following improvements as mitigation for this relief.

Proposed mitigation

Bordering Vegetated Wetland - The BVW that is found under the workshop will be re-delineated and the disturbed area will be seeded with a wet meadow mix and augmented with silky dogwood (*Cornus amomum*) shrubs where appropriate with regard to hydrologic conditions.

25 foot no-disturb zone - The no-disturb zone adjacent to the impacted BVW, as determined by the revised wetland line will be planted with silky dogwood shrubs and Highbush blueberry (*Vaccinium corymbosum*) shrubs at a density of one every eight feet on center.

Additional no-disturb zone - The area beyond the proposed "conservation fence" outside of the existing 25-foot no-disturb zone (approximately 15,000 square feet) will be set aside as a no-disturb zone and will be seeded with a wildflower seed mix and black raspberry (*Rubus*

occidentalis) seeds to provide food and shelter for a wide variety of wildlife. The area is currently paved or lawn.

Invasive species - Invasive species such as Japanese knotweed (*Polygonum cuspidatum*) will be removed when the pavement on the front section of the project area is removed. In addition a significant amount of Multiflora rose (*Rosa multiflora*) will also be removed from the front portion of the property. Other invasive alien species such as Norway maple (*Acer platanoides*), Tartarian honeysuckle (*Lonicera tatarica*) and Garlic mustard (*Alliaria petiolata*) will be reduced somewhat by the mitigation measures above.



A portion of this building is on top of the wetland and 25-foot no-disturb zone.



Additional no-disturb zone is proposed for this area of the property.