Winchendon Conservation Commission

109 Front Street



OF WIN	WINCHENDON Wetland Protection Regulations
S MASS	By-Law Waiver Request Requirement Information
VA 1735 42	Date:
1764*	Applicant/Owner: ZP Battery DevCo, LLC
Map/Lot	: <u>2D2/11</u> Project Address: <u>256 Murdock Avenue, Winchendon</u>
	request a waiver, the following provides a guidance for required information (attach al text, plans, photos, or graphics if needed):
Project p	ourpose and need: The purpose of the project is to construct a standalone solar energy
storage s	ystem (ESS) along the rear portion of the property. These systems are intended to work in
2001	on with other renewable energy sources to store excess energy when energy generation
	s energy consumption. This system stores the excess energy and when necessary, releases the
.35	hen electrical demand is high. This allows for a more efficient application and allocation of
<u>renewabi</u>	e energy sources within the electrical grid.
What sp	ecific action(s) is the Waiver being asked for? A waiver is requested to perform
work wit	thin the 50-foot Undisturbed Natural Vegetation Zone (50-foot Zone). Pre-existing
activities	s do not meet the current setbacks and are nonconforming. Work will include the
clearing	of a portion of an isolated wooded area that is bifurcated from the bordering
vegetate	ed wetland by an existing 20-foot-wide gravel access road utilized to access the rear of
the exist	ing building. The area of work will be part of the ESS System. The existing contiguous
upland f	orest will be maintained, and the northern portion expanded as part of the buffer zone
restorati	ion proposed to compensate for the portion of the project area within the 50-foot
Zone.	
	he action(s) in the public interest, necessary to avoid a taking, necessary to prevent a azard or water dependent?
This p	roject is to the benefit of the public interest by providing improved accessibility of
renewak	ole energy to the residents of Winchendon by providing the ability to store excess
energy a	and provide it back to the electrical grid when necessary. In addition, the project area is
surroun	ded by existing developments (i.e., building and gravel parking and access areas) and
	t directly abut the bordering vegetated wetland. To compensate for the taking, a Buffer
-	storation Area is proposed within a previously disturbed portion of the site. This

restoration will expand the contiguous forested buffer zone to bordering vegetated wetland. By permitting this work the additional contiguous forested area would provide greater benefit to the surrounding bordering vegetated wetland, including the off-site potential vernal pool.

How is the action(s) consistent with the intent and purpose of the Bylaw?
This action is consistent with the intent and purpose of the Bylaw by providing an improved 50-foot vegetated buffer zone. Based on the reading of the bylaw it is the intent to preserve a vegetated natural buffer zone to maintain the integrity of the resource area. As the proposed area of taking is heavily disturbed and the vegetation to be cleared is currently bifurcated by a roadway system, the vegetation does not provide significant protection to the bordering vegetated wetland. By providing the restoration area in excess of the alteration area and locating it in a previously degraded area, a larger contiguous vegetated natural buffer zone is being created. As such in portions of the property that lack a vegetated buffer a greater buffer is being created to better serve the intent of the Bylaw.
Existing and proposed site conditions (ie, impervious, lawn & disturbed areas) (square feet;
show on plan):
The area of the proposed taking within the 50-foot buffer zone is 3,880± square feet (s.f.)
and comprised of of trees, brush, and grass. The area of restoration is currently being utilized as
a wood processing area and is void of vegetation. The ground surface is comprised of asphalt
grindings and other surfacing materials.
Under proposed conditions a 1,648±sf portion of the taking will be converted to gravel and concrete with the remaining area (i.e., 2,232 sf) established as a vegetated surface (i.e., lawn). The proposed buffer zone restoration area is 3,725± s.f. and will be restored with loam and planted with a mix of native shrubs and trees o as prepared by LEC Environmental Consultants, Inc.
Existing and proposed distances of land uses from wetland resource areas (show on plan):
The existing setback near the edge of existing gravel road is 4-feet and the far side of gravel drive is 24-feet. Proposed Setback from Taking area is 24-feet. Existing gravel road to remain intact.
Analysis of less environmentally damaging practicable alternative:
Due to the space constraints on the property including the existing building access as well as emergency vehicle access, the ability to relocate the ESS further from the wetland is not
practicable. It is important to note that the I property is predominantly surrounded by wetland

areas and the existing development is located entirely within the buffer zone. The proposed project has been designed in order to mitigate the overall scope within the 50-foot buffer zone by locating the work in the bifurcated vegetated area. In addition, the restoration area provides

a significant improvement to the overall function of the buffer zone and thereby protection of the wetland by expanding the contiguous forested buffer zone.

Proposed short term and long-term protection of wetland resource areas:
Short Term protections include straw wattle and silt fence along limit of disturbance. Long
term protections include landscaped areas with stormwater management features.
Is the site in a Zone I, II or III (groundwater) area: No Applicable
Are there critical, unique or sensitive resource areas in the area (ie, NHESP mapped habitat,
vernal pools, unusual wetland types, cold water fisheries, outstanding resource waters, Core
Habitat, ACEC , etc); show on plan:
There are no other critical, unique or sensitive resource areas located within the project
scope. According to MassGIS, no DFW Coldwater fisheries resources, NHESP mapped habitats,
or certified vernal pools are mapped at or adjacent to the site. In addition, according to the
2021 Biomap, there are no Core Habitats or Critical Natural Landscape features on or proximate
to the site (refer to NOI Application, Appendix A). A potential vernal pool is located within the
open water feature northeast of the site. To the extent the water feature functions as a vernal
pool, the buffer zone restoration area located within the northern portion of the site will
improve upland wildlife habitat.
Other factors for consideration:
Signature: Ton and Project: