

# Fort Ticonderoga

## Pavilion Renovations

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<b>Location</b>	Ticonderoga, NY	<b>Size</b>	7,678 square feet
<b>Architect</b>	John G. Waite Associates	<b>Cost</b>	\$6 million
<b>Services</b>	MEP/FP	<b>Completed</b>	2021

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The Fort Ticonderoga Pavilion was built in 1826 by William Ferris Pell as a summer home; it is considered one of America's earliest summer homes. The scope of this project, located on a historic site, incorporated the restoration and adaptive re-use of the space which included visitor amenities, conference center capacity, commercial kitchen, and educational and exhibition space.

From an engineering stand point, the project included the complete renovation and installation of new mechanical, electrical, plumbing, and fire protection utilities and systems. The systems were integrated into the architecture so as not to impede on the character of the site or adversely impact the historic fabric. An all-electric mechanical system was selected which provides several benefits to both the building and environment. Utilizing multiple, smaller fan coil units allows the system the necessary integration with the architecture, increased user controllability, smaller branch duct and pipe routing, a non-complex system maintained by a maintenance contract, and the ability to have complete heating and cooling backup via a standby generator.

The mechanical system consists of a Variable Refrigerant Volume (VRV) system with independent heating and cooling capability. Fan coil units are located outside the occupied spaces in order to avoid intrusion on the architecture or visitor experience.



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