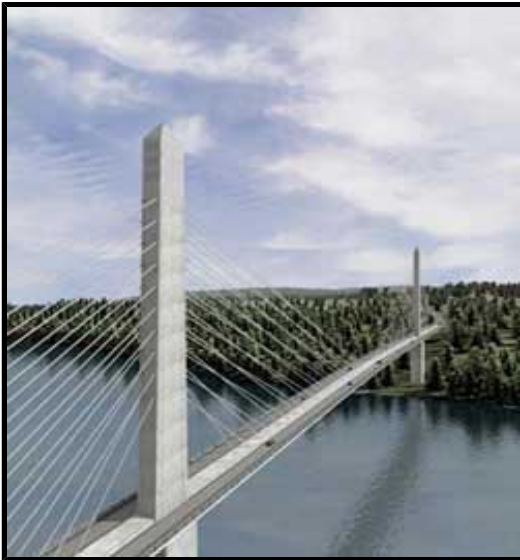


# Prospect-Verona Bridge



**Spanning the Penobscot River**, the new 2,119-foot cable-stay bridge under construction in midcoast Maine includes two towers that will rise 420 feet above the water, one of which will include an observatory that will provide expansive views across upper Penobscot Bay, western Hancock County, and eastern Waldo County. **KAPPA Mapping, Inc.**, was proud to be selected to produce engineering base maps for this \$84 million project.

Scheduled to be completed in late 2006, the bridge will replace a scenic steel suspension bridge just upstream that was constructed in 1931. More information about the new bridge and up-to-date construction information can be found at [www.waldohancockbridge.com/waldo-county-bridge/](http://www.waldohancockbridge.com/waldo-county-bridge/)

Bridge rendering courtesy of Maine DOT

<b>Project Type:</b>	Base map for engineering
<b>Project Location:</b>	Prospect-Verona, Maine (near Bucksport)
<b>Scope of Work:</b>	KAPPA Mapping was selected to map detailed planimetric and topographic features for the existing historic bridge and roadway approaches, as well as nearby Fort Knox State Park. Images were orthorectified using the compiled digital terrain model. The ortho images were then mosaicked into a seamless, color-balanced image.
<b>Project Specifics:</b>	Ground control was provided with both Airborne GPS (AGPS) and traditional targets.  Mapping was 1"=50' with 1' contours.
<b>Challenges:</b>	Color fall photography typically has long shadows due to the low sun angle. Also, colors tend to be dull late in the fall flying season. KAPPA Mapping used sophisticated image enhancement technology to bring out detail in shadows and to intensify colors.  Another challenge was the aggressive schedule. By working closely with Maine DOT, and sharing the project administration tasks, KAPPA was able to deliver on time and on budget.
<b>End Result:</b>	Maine DOT used the base map along with traditional surveying to design the new bridge and bridge approaches.



Construction photo courtesy of Maine DOT

