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# PROJECT PROFILE

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## Stratton Mountain Parking Garage - Stratton, VT

### DESCRIPTION:

In June of 2007 CSI was challenged by Walker Consulting with a multi-level parking structure (5 levels) in desperate need of deck repair. The CSI team installed 14 new joist saddles, replaced both armor plated expansion joints, and completely replaced one of the main support columns.

Partial deck repair over two of the decks was in excess of 4,500 SF with full deck repair reaching 2,000 SF. Replacement of the two 120-ft armor plated expansion joints proved challenging, as the original Douglas ties were nestled deep into #11 rebar. In setting the new expansion joints CSI raised them up above deck level by a half-inch, thus inducing pitch away from the center line of the joint.

Upon approval of shoring, CSI began the task of removing the existing column. Once demolition was complete CSI discovered that the existing rebar was undersized or almost non-existent; no stirrups supported what little was there. Walker produced a structural remedy which required CSI to drill 18" deep holes into the existing foundation and dowel #11 rebar into the holes while placing new steel the entire length of the column. Stirrups were installed for reinforcement and a newly designed Haunch was added to the column to support the deck of the garage at level 3.

High strength fiber reinforced pre-mixed concrete was poured into a custom made form to complete the project; thus ensuring the columns structural integrity, while returning the column to its original profile.

**OWNER:** IntraWest Development

**ENGINEER:** Walker Parking Consultants

**DATE:** June 2007



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