

Ruth's Chris Steakhouse in Biltmore Village

Asheville, NC

Construction of a new Ruth's Chris Steakhouse was proposed for a lot adjoining the Biltmore Estate. A near vertical, old excavation roughly followed the property line. It was desired to shore the portion of the excavation adjacent to the proposed new restaurant, however, it was not permitted to drill across the property line.

WEC proposed to construct an "L" shaped retaining wall supported on two rows of [micropiles](#) for support of the hillside and was awarded the project. The geotechnical consultant and geotechnical engineers with WEC evaluated the existing hillside cut and determined that it would be stable through construction, however, as a precaution, WEC drilled and grouted short dowels into the exposed rock, and applied a relatively thin layer of reinforced shotcrete over the exposed rock surface to prevent a loose rock from falling on the workers.

The retaining wall footing is poured, reinforced concrete, typical of retaining wall construction, however, the vertical portion of the wall was constructed of reinforced [shotcrete](#). The face of the retaining wall is relatively planar with a "gun finish" created by applying an extra layer of shotcrete to cover the previous layers of shotcrete and to fill in low areas. The face of the retaining wall was laid back, and the top trimmed to conform to the contours of the hillside, allowing it to blend into the hillside.

Construction Manager: Biltmore Property Group
GC: Beverly Grant Construction Co.
Geotechnical Contractor: WEC

