By Saving \$100,000, The Price Was Right

Avian Forest Segmental Retaining Wall/Bridge

Location: Avian Forest, Bellevue, Nebraska Square Footage: 4137 square feet [384.3273m²] Engineer: Eds. Consuling Group Architect: Savage and Palandri Architects Consuling Engineer: Kirkham Michael & Associates General Contractors Policif Constraction

Sub Contractor: MCC Construction
Anchor Wall Supplier: Watkins Concrete Black

The challenge: Create an access road to a superb piece of property in Bellevue, Nebraska.

The solutions Install a roadway supported by a segmental retaining wall for a cost-effective, time-saving, and aesthetically pleasing solution with minimal disruption to the natural environment.

The full story:

Once upon a time, a property owner held a desirable parcel of land offlering a view of the Missouri River as well as the beauty of Fontenelle Forest. The problem, however, was that a rovine separated the proposal development from the city streets, allowing no access for potential busyers. What was a developer to do?

The first option pitched by the architects suggested that a road and embankment be built. This idea was rejected because too many trees would have been felled and too much land would be eaten up by slopes of the new road embankment.

The second option was to build a reinforced concrete bridge over the ravine and veneer it with Colorado Moss Rock. Nice idea, but with a hefty price tap of \$250,000.

The third option was to utilize segmental retaining wall units. This idea affered not only a timely solution (the project had fallen behind schedule) but also significant cost savings over the other afternatives.

The engineer, E&A Consulting Group, chose Anchor Vertica Pro® to provide an aesthetically pleasing look with an economical price



The customer to cost, scheduling and environmental concerns on the Arian Ferest project was an 18-foot high (5.4864m) Ancher Vertica Pro® wall. The culvert at the base of the wall accommodates water run-off.

tag. The near vertical batter of the structure allowed for fewer trees to be destroyed. The montantess construction aftered the flexibility to install a culvert at the base of the wall to accommodate water run-off.

The lower portion of the wall was constructed with granular fill and Strata 300 geosynthetic reinforcement. Alongside the road, Anchor Vertica" units were installed back to back for a decreative finish on both sides. Corner units on the ends provided an added touch of data. Due to access from corne spossibly hitting the was touched for a strate of the corner for corn possibly hitting the way. vertical rebor was inserted, the units were grouted, and a reinforced powerful replace cap was continuated.

Charles Huddleston, PE, Project Designer, E&A Consulting Group, soys, "We were pleased we could save the owner money and provide an attractive entrance to the development. We lost at lack films when the project came in high, but we were able to recover due to the speed of construction with Anchor Wall Systems."

And from that point on, they lived happily ever after. . .

Have you risen to the challenge with an Anchor Wall Systems¹⁰ retaining wall installation? Contact us at 800-473-4452, ext. 217 for consideration of your story in a future issue.