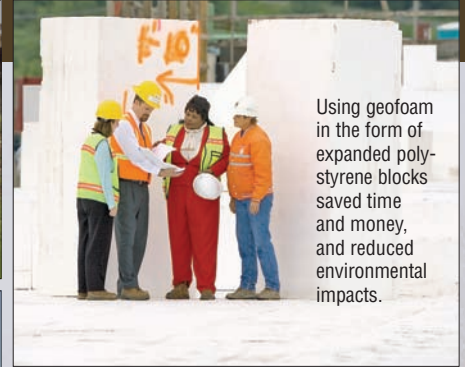


## York Bridge Replacement Project | City of Redmond, King County, Washington

OWNERS: King County Department of Transportation | Seattle, Washington

City of Redmond | Redmond, Washington

ENTRANT: AECOM | Bellevue, Washington



Using geofoam in the form of expanded polystyrene blocks saved time and money, and reduced environmental impacts.

Crossing the Sammamish River, the York Bridge includes a 220-foot long, four-span, precast concrete, W42G girder bridge with a shallow cast-in-place arch and inclined columns supporting two center spans.

- The team's innovative solutions to challenges such as soft soil, an irregular arch design, environmental concerns and stakeholder concerns and requirements, resulted in a seismically sound, aesthetically pleasing and environmentally friendly bridge structure.

- The bridge's large bulb-outs on the deck created an asymmetrical shape that required an alternative construction plan.

- Designing a girder bridge with a cast-in-place arch enabled the style of the bridge to be consistent with others in the area while achieving the required structural integrity.



**This major contribution to the engineering profession is a model for solving engineering challenges in a manner that is cost effective, environmentally friendly, and responsive to the community.**