



Anchorage

NEWS RELEASE

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Edmonds

HART CROWSER RECEIVES TWO ASCE OUTSTANDING PROJECT AWARDS

Engineering Firm Commended for Innovative Approaches

Seattle, WA (June 10, 2005)—The American Society of Civil Engineers (ASCE) Seattle Section presented Hart Crowser with awards for two projects. The Brookside Creek Stream Channel Restoration project and the Washington Mutual—Seattle Art Museum Building project each won due to innovative approaches and difficult site conditions.

Portland

For the Brookside Creek Stream Channel Restoration project, Hart Crowser worked with the Lake Forest Park Stewardship Foundation to design a fish passage system to enable salmonids to swim past an old 8-foot-high dam on private property. A strong point of the project was a focus on design and materials for a non-profit organization with limited resources. Hart Crowser engineers evaluated alternatives and designed the restoration. Features included breaching the dam; adding a new 100-foot stream channel with cobbles, gravel, and boulders; and placing a cedar log weir to retain a segment of the old pond for use as a silt trap. Local community members donated labor and obtained donations of large

Seattle



boulders, sand and gravel, wood chips for use over haul roads, and the 12-foot-long, 30-inch-diameter cedar log for the upstream weir. Brookside Creek has now been returned to its former state as a natural wild salmon stream.

The 42-story Washington Mutual–Seattle Art Museum tower is now being built in downtown Seattle. The project provides a new headquarters for Washington Mutual and will meet the expansion needs for the Seattle Art Museum. The excavation for this project extended to 90 feet below adjacent street grade. This was one of the deepest excavations ever performed in the city. Engineers also overcame difficult challenges brought on by working in an urban city center. The site had limited right of way for tieback installation, and required underpinning of the adjacent Seattle Art Museum. The excavation's depth extended to the bottom of the BNSF railroad tunnel, which is directly adjacent to one corner of the excavation. This required specialized shoring techniques to maintain the structural integrity of the tunnel. The Hart Crowser engineers brought value as well as sustainable design to the project by reusing the substantial quantity of excavated soil as embankment fill for the Seattle Art Museum's Olympic Sculpture Park. The project also involved state-of-the-art seismic analysis that passed stringent third party peer review.

Hart Crowser provides geotechnical engineering, environmental engineering, and natural resource services from offices in Seattle, Edmonds, Portland, and Anchorage. Corporate offices are located at 1910 Fairview Avenue East, Seattle, Washington 98102; telephone (206) 324-9530 and fax (206) 328-5581. Visit the firm's website at www.hartcrowser.com for more information.