

Design Firms Top Ten Highlights DOT Work

http://northwest.construction.com/features/archive/0510_Feature1.asp



#1 CH 2 M Hill Riverfront Building

On the Willamette River, in CH2M HILL's hometown in Corvallis, Ore., a 7-story, mixed-use structure is under construction. Design includes restaurants, retail businesses, condominiums, underground parking, and a "green roof". Construction is scheduled for completion in mid-2006.

Building Information Modeling

(BIM) features include:

- Conceptual 3D model (design simulations, LEED(tm) options, energy analyses)
- Fully-integrated, multidiscipline 3D design model (interference checking, walk-throughs, construction simulations)
- 3D model attribute data (quantities, cost estimating)

#2 NBBJ Snohomish County Redevelopment



The County Redevelopment Initiative accomplished expansion and renovation of the courthouse, expansion of the regional justice system, and expansion of the administrative offices, as well as new structured parking and a new civic plaza for the county and the city.

#3 Parametrix Comprehensive Mitigation/ Conservation Strategy \$5.7 million

#4 David Evans and Associates Mt Hood and Chemault Highway \$5.8 million



The Mount Hood to Chemult Design-Build project is replacing eleven bridges and removing one bridge on Highways OR 224, US 26 and US 97 together with roadwork to add northbound and southbound passing lanes between

MP 199.8 and 201.2 on US 97 near Chemult. All of the bridges are being replaced as part of the statewide OTIA III Bridge Program. This is the second corridor level design-build project in Oregon.

#5 ZGF Legacy Salmon Creek Hospital



When the Legacy Salmon Creek Hospital was completed this summer it earned the honor of being the largest green field hospital constructed in the state of Washington in 25 years.

#6 Otak, Inc. Seven Oaks Bridge Package



Otak is providing preliminary engineering for this OTIA-funded project. This \$25 million project includes the northbound and southbound I-5 bridges over the Central Oregon and Pacific Railroad and the Highway 99 overcrossing at the Seven Oaks interchange north of Medford. The Seven Oaks interchange will also be reconfigured as part of the project to correct ramp and adjacent intersection geometric deficiencies. The preliminary engineering includes the Design Acceptance and Final PS&E phases of the project. The Design

Acceptance phase of work includes an extensive alternatives analysis to evaluate interchange options and

structure types. The I-5 bridges will be replaced with side-by-side bridges between the existing structures to eliminate the need for a detour structure to maintain traffic.

#7 IDC Molecular Probes/Invitrogen



This is the latest building to be constructed in as the Molecular Probes site in Eugene.

#8 South 180th Street Grade Separation Tukwila, Washington



For the City of Tukwila, BERGER/ABAM provided total design services for planning, design and construction support for the undercrossing grade separation of South 180th Street

from the Union Pacific Railroad and the Burlington Northern Santa Fe Railway. The grade separation was necessitated by the more than 40,000 drivers whose daily commutes were delayed due to freight and passenger trains crossing the road 60 times each day. An innovative engineering solution, the first of its kind in the United States, used in situ cement deep soil mixing methods. The solution saved more than \$5 million over conventional tremie seal methods and resulted in construction that required virtually no dewatering despite having to excavate 20 feet below groundwater level. The new grade separation was opened to commuters on 16 May 2003-58 days ahead of schedule. This project also received national recognition in 2004, receiving the APWA Transportation Project of the Year Award.

#9 W&H Pacific Polk County OTIA Bridges \$3.1 million



Nine Bridge Replacements, Polk County, Oregon

The replacement of the Falls City Bridge was one of nine bridges designed by W&H Pacific in 2004. The fast-tracked bridge designs were completed ahead of schedule and with an estimated \$1.6M savings to Polk County. Construction of the first bridge, Wigrich Road Bridge, was completed in December 2004, and was the first OTIA III-funded project constructed in Oregon. As of August 2005, three more bridges—including the Falls City bridge—have been constructed and the remaining bridges are on schedule to be complete in 2006.

#10 MWH Brightwater Conveyance Design \$7.2 million