

Kamber Road Improvements East Creek Culvert Replacement

Bellevue, Washington

Owner: City of Bellevue

Description: INCA Engineers, Inc., A Tetra Tech Company (INCA) provided design for improvements to Kamber Road, between Richards Road and 137th Avenue SE. Improvements included complete design for sections of concrete sidewalk and bicycle lanes along the roadway; full width overlay with reconstruction in selected areas; design of a new bridge at East Creek; and waterline and sanitary sewer repair and replacement; and signal interconnect along the road.

This project included several complex issues which complicated the design and construction, including:

- ▶ Poor geotechnical conditions
- ▶ Pavement design/geogrid reinforcement at bridge approaches
- ▶ Utility issues, which included the Olympic Pipeline (petroleum pipeline) and the Seattle Public Utilities' Eastside Supply Line (major water supply line to the east side of Lake Washington) ran the length of the roadway
- ▶ Protection of salmon habitat in East Creek
- ▶ Severe flooding along the portion of the project that crosses East Creek

The poor geotechnical conditions made relocation of utilities very difficult, potentially leading to settling of the roadway. INCA identified options that reduced the need to relocate utilities. This analysis resulted in a \$500,000 reduction of overall project construction cost and shortened the construction schedule by two months.

Kamber Road was selected as APWA's "Public Works Project of the Year" 2007.

Special Features:

- ▶ Extensive utilities coordination
- ▶ Roadway/pedestrian/bicycle improvements
- ▶ Multi-agency interests
- ▶ Stream crossing issues
- ▶ Fish passage improvements
- ▶ Landscaping

