The OPEN CELL SHEET PILE system is a patented earth-retaining technology by PND Engineers, Inc., that has been used in over 170 projects across the U.S. and worldwide. The simplicity and efficiency of the design allow the engineers at PND to adapt the OPEN CELL system to alternative uses such as levees, bulkheads, docks, and abutments. The OPEN CELL system is simple and cost-effective, using standard pile driving equipment and readily available flat sheet piles. PND designed this system to function efficiently as a horizontally tied tension structure that relies on sheet pile tail walls to restrain the curved sheet pile face.

Setback Levee Repair

ADDITIONAL FLOOD CAPACITY

811 First Avenue, Suite 570
Seattle, Washington 98104
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Cost-Effective Flood Control Solutions with Low Impact Technology

Ohio River park redevelopment project with OPEN CELL SHEET PILE

OPEN CELL LEVEE

North American OPEN CELL SHEET PILE® Projects

(integeral projects not shown.)
The OPEN CELL levee is an innovative technology for rehabilitating aging, structurally deficient levees. The OPEN CELL levee reduces the levee footprint by using vertical recycled steel sheet pile to create an economical tension structure that remains stable under extreme flood pressures, earthquake forces and river scour.

Contrasted with typical setback levee repairs, the OPEN CELL levee does not require encroachment onto adjacent property or enormous quantities of imported soil fill and rock to improve safety and increase flood capacity. Other environmental and structural advantages of the OPEN CELL levee are provided in the table on the opposite page.
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OPEN CELL SHEET PILE under construction on the Columbia River

(International projects not shown.)