

PROJECT DESCRIPTION

PROJECT: Riverscape Lot 8
LOCATION: Portland, OR
DESIGN TEAM: *Architect:* SERA Architecture
Structural Engineer: KPFF Consulting Engineers
Geotechnical Engineer: GeoDesign
CONTRACTOR: Fore Construction LLC
OWNER: CRP/FPC Riverscape Lot 8 LLC



DESCRIPTION:

Two buildings comprising 250 luxury apartments above a parking garage with 200 vehicle spaces, on the bank of the Willamette River in downtown Portland.

The Riverscape Lot 8 project had uplift requirements to protect against hydrostatic uplift from potential flood stage waters. The initial specification called for 37 Micro Piles extending 40-80 feet into the subgrade. As a value engineering alternative, 179 Engineered Aggregate Tension Piers with coated steel harnesses were installed to a depth of 12 feet, mitigating the uplift requirements and simplifying the structural tie-in, eliminating concrete block-out forming. Our installed uplift system was put through an extensive testing process yielding results that approached 3.5 times the target capacity in our design.

REFERENCES: Tom Clark Jason Booth
Fore Construction LLC Fore Construction LLC
Eric McDonnell Brett A Shipton P.E.
KPFF Consulting Engineers GeoDesign