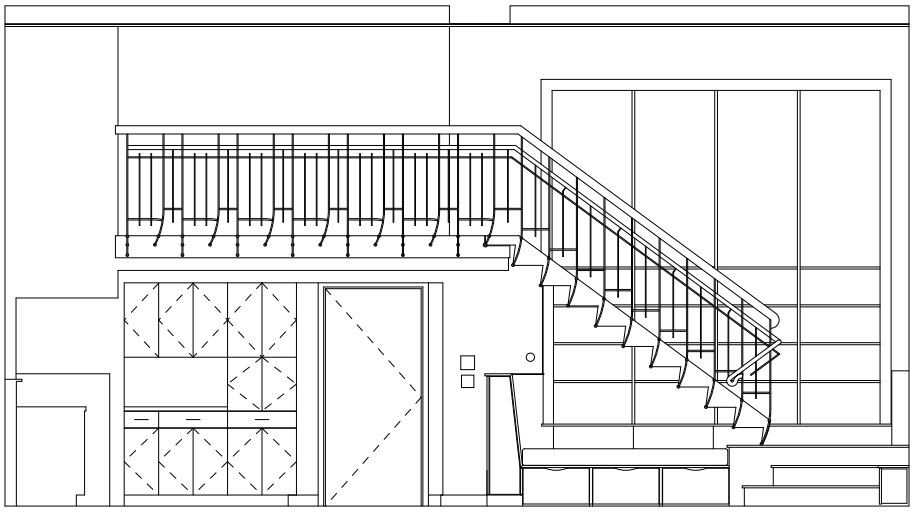
STEEL, ALUMINUM, & WOOD STAIR

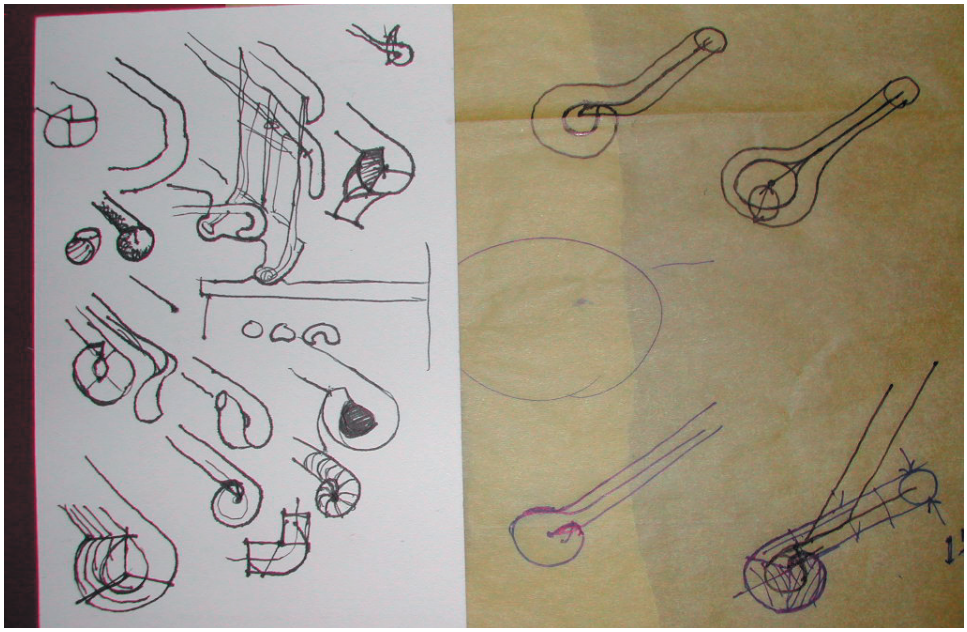
Somerville, Massachusetts
2003

This entirely custom, code compliant stair and safety railing system is the dominant design feature of Kimo Griggs' own rehabilitated industrial loft space. The backbone of the stair is a monocoque steel structure formed by the treads, risers and stringers welded together with a seamless appearance. The aluminum railing system clips over the edge of the stringer to make a very stiff yet apparently light connection to the tread assembly, with no visible fasteners. The handrail was extensively modeled in AutoCAD and Rhino and then some complex components were milled on Kimo Inc.'s three-axis computer-numerically-controlled router. This stair demonstrates the firm's ability to design, develop and deliver highly complex, individual assemblies that are both beautiful and code compliant.

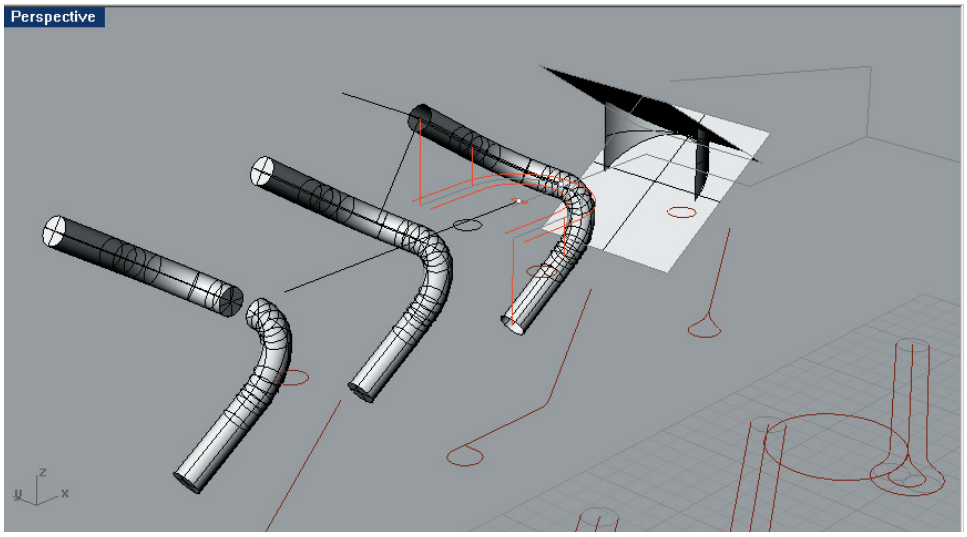
client	Susan Tang and Kimo Griggs
function	stair and balcony
primary materials	painted steel stringer
	aluminum and mahogany rail



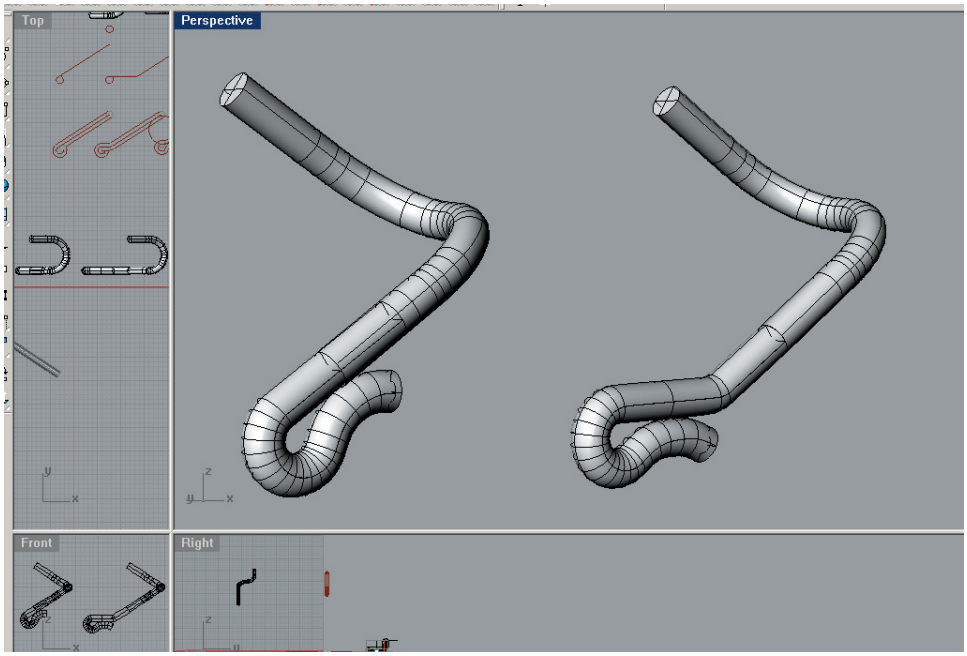
Elevation of stair



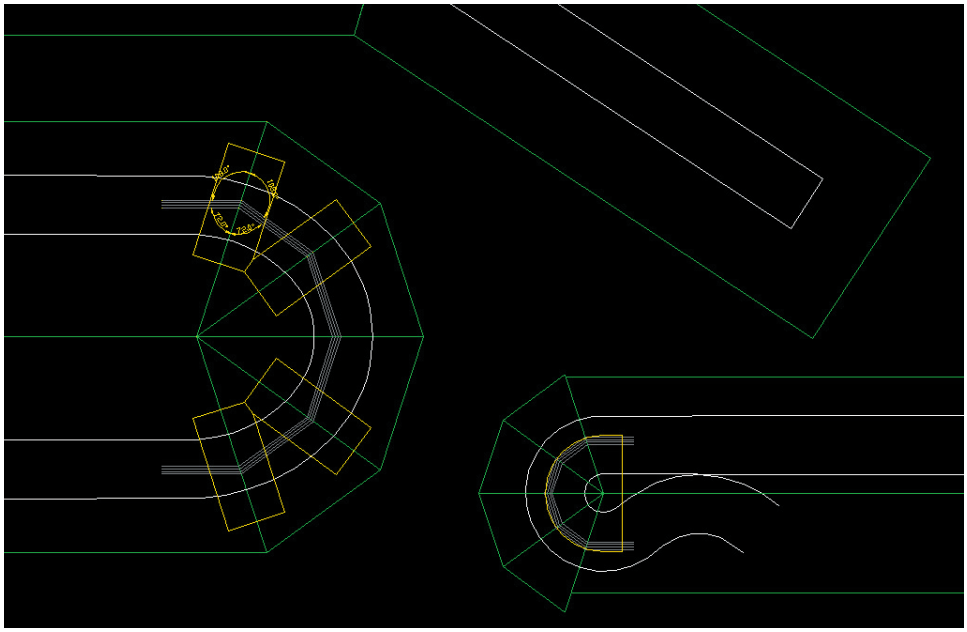
Preliminary Sketches



Design development surface models

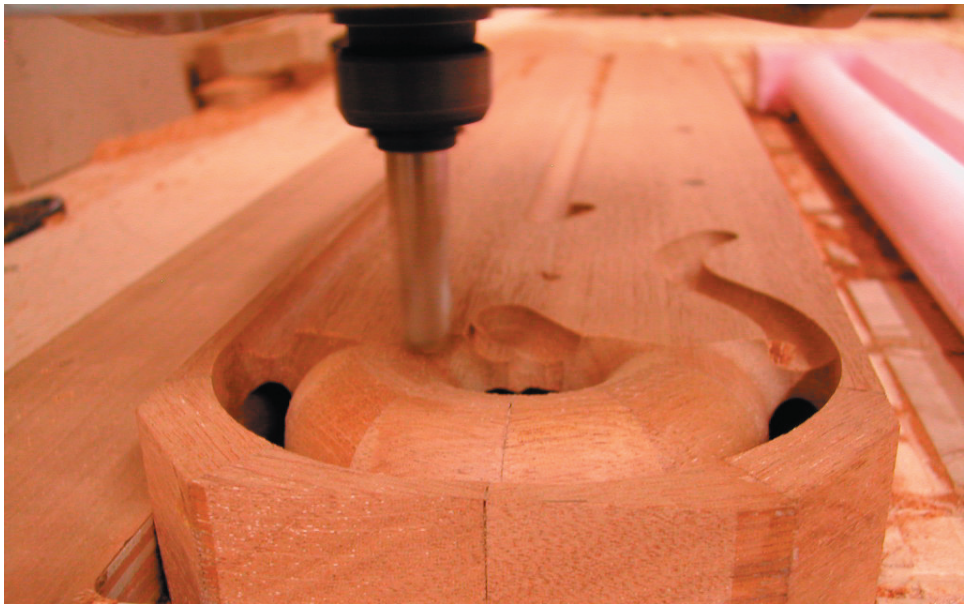


Final railend surface model



Wood layup detail

Rough cut



Finish cut

Completed milling operation

Installed railend