



















August 16, 2006 - University of California, Berkeley









August 16, 2006 - University of California, Berkeley



	aetir ien	tronic s	soil prope	rties	
Soil profile		E [kPa]	Poisson's ratio	Unit	weight [kN/m³]
Top strong layer	(brown)	25,000	0.3	15	17.0
Middle soft layer	(white)	2,500	0.4	7	17.0
Bottom strong la	yer	25 000	0.5	5	17.0
(brown)	nlastic (Drucke	r Prager)	soil pror	ortios
(brown) Elasto Soil profile	plastic (^K [kPa]	Drucke G [kPa]	r Prager) Friction angle و [degrees]	Soil prop Cohesion c [kPa]	Unit weigh
(brown) Elasto Soil profile Top strong layer (brown)	plastic ([kPa] 27778.0	Drucke G [kPa] 9259.3	Friction angle ¢ [degrees]	Soil prop Cohesion c [kPa] 5	Derties
(brown) Elasto Soil profile Top strong layer (brown) Middle soft layer (white)	plastic ([kPa] 27778.0 13888.0	Drucke G [kPa] 9259.3 862.0	Priction angle o [degrees] 32 0	Soil prop Cohesion c [kPa] 5 10	Unit weigh [kN/m³] 17.0 17.0

	F	Pile elastic	properties		
Beam material	Diam	Area [m2]	l [m4]	E [kPa]	G [kPa]
RC Concrete beam	2.5m	2.4544	1.7854	25,000,000	12,5000,000
RC Concrete beam	54"	0.73878	0.04780	25,000,000	12,5000,000
RC Concrete beam	24"	0.146	004680	25,000,000	12,5000,000
c	Contact ele	ement mate	rial proper	ties	
C	Contact ele	Friction coefficient (µ=tan(\$))	rial proper	ties ss (for sticking) [kPa]	







GiD post processing

 σ_{xx} stresses after displacement





GiD post processing

Contours of Contact Forces at the end of Displacement







































