KONERU RESIDENCE

DETAILS A & B	
3'-6" MAX DEPTH):	
Depth (ft) =	3.5
Equivalent Fluid Density (pcf) =	40
OTM=1/6 x (w) x H^3 (lb ft) =	285.8333
Moment Resistance (lb ft) =	φMn
Shear Resistance (lbs) =	φVc
As (#4 @10" OC)=	0.235 in^2
Fs =	60 ksi
Fc =	4 ksi
a (in) =	0.345588 in
D (in) =	5.5
Dt (in) =	11
Cover (in) =	5.25
Bar Diameter (in) =	0.5
Moment Reduction Factor (ϕ) =	0.9
Shear Reduction Factor (ϕ) =	0.75

φMn (ft lbs) =	5633.52
φVc (lbs) =	12522.62
Moment Resistance FOS	19.70911