Q1. Calculate required development length for two inner #8 tension bars as shown in the Figure. The 2-#8 outer bars are to be continuous along the full length of the beam. Use $f_c' = 3000$ psi, $f_y = 60,000$ psi, uncoated bars, normal weight concrete.
Q2. Calculate required tension development length for #6 bars (alternate short bars) in the one-way slab as shown in the Figure. Use $f'_c = 3000$ psi, $f_y = 60,000$ psi, uncoated bars, normal weight concrete.