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y footing A = area of foot  
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 $M_a =$  allowable bending moment  $M_n =$  nominal moment strength  $\phi$   
 $b = 1.67 =$  factor of safety for bending moment  $F_y =$  yield stress  $Z_x =$  plastic section modulus about neutral axis Spread Footing  
Design = q allowable - p footing q

## Engineering Formula Sheet

the analysis and design of primary structural system. The attachment of non- structural elements is the responsibility of the architect or designer, unless specifically shown otherwise. The Engineer assumes no responsibility for work not a part of these calculations. When structural observation or field



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46. Draw structural formulas for the following alcohols, and tell if each is primary, secondary, or tertiary: (a) 1-butanol (b) 2-butanol (c) 3,3-dimethyl-2-butanol (d) 3,3-dimethyl-1-butanol 47. Write the formula, and draw the structure, for each of the...

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