

ARCHITECTURE PROGRAM
ARCH 4213 - Building Technology III

Home work 9

Problem 1

Select the number and location of #3 stirrups required by a concrete beam spanning 16 feet and supporting a live load of 2.0 kips/foot and a dead load of 2.5 kip/foot. Use $f'_c=3000$ psi and $F_y = 60$ ksi. The beam has the following dimension: $b = 12$ " and $d = 21.5$ ".

Problem 2

Select the number and location of # 4 stirrups required by the concrete beam shown below. Use $f'_c = 4000$ psi and $F_y = 60$ ksi .

