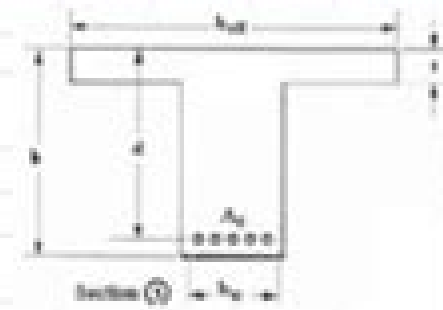


# CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)

|                                     |                                                   |                        |                         |                   |               |
|-------------------------------------|---------------------------------------------------|------------------------|-------------------------|-------------------|---------------|
| Select Strength:                    | $f_y = 60000 \text{ psi}; f_c = 4000 \text{ psi}$ | Select design $\rho$ : | $\rho_{max}$            | Select Load Case: | $1.2D + 1.4L$ |
| $f_y = 60000$                       | $f_c = 4000$                                      | Design $\rho = 0.0069$ | Est $w_s$ [k/ft] = 1.78 |                   |               |
| $\rho_{max} = 0.0033$               | $\rho_{max} = 0.0183$                             | Design $R_n = 388.79$  | $M_u$ [ft-k] = 227.8    |                   |               |
| $R_n$ at $\rho_{max}$ [psi] = 192.2 | $R_n$ at $\rho_{max}$ [psi] = 952.0               | $b d^3 = 7813.549$     | $M_u$ [ft-k] = 253.2    |                   |               |
|                                     |                                                   | $d = 22.10$            | Density [pcf] 150       |                   |               |



## Enter Givens & Estimates:

|                      |        |                                |        |                |        |
|----------------------|--------|--------------------------------|--------|----------------|--------|
| $w_s$ [k/ft]         | 0.55   | $b_w$ [in]                     | 16     | $b_{eff}$ [in] | 80     |
| $w_s$ [k/ft]         | 0.4    | $h$ [in]                       | 27     | $t$ [in]       | 3      |
| Length [ft]          | 32     | $d$ [in]                       | 24     | $a$ [in]       | 0.49   |
| Clear Cover [in]     | 3      | $A_g$ [in <sup>2</sup> ]       | 2.65   | $\beta_1$      | 0.85   |
| Est Self Wt [plf]    | 400    | $A_{g,max}$ [in <sup>2</sup> ] | 1.214  | $c$ [in]       | 0.57   |
| Actual Self Wt [plf] | 450.00 | $A_{g,max}$ [in <sup>2</sup> ] | 1.280  | $e_t$          | 0.1227 |
|                      |        | $\phi M_u$ [ft-k]              | 253.36 |                |        |

## Neutral Axis Calculations:

|                                |       |               |       |
|--------------------------------|-------|---------------|-------|
| $T$ [kips]                     | 142.2 | $z$ [in] =    | 21.60 |
| $A_g$ [in <sup>2</sup> ]       | 41.8  | $z$ [in] =    | 22.50 |
| $A_{s,req}$ [in <sup>2</sup> ] | 240   | Governing $z$ | 22.50 |

N.A. is in the flange

## Select $A_s$ in Tension:

| BAR | Qty | $A_s$ [in <sup>2</sup> ] |
|-----|-----|--------------------------|
| #6  | 3   | 2.37                     |

## If $a < ht$

|                          |        |
|--------------------------|--------|
| $A_s$ [in <sup>2</sup> ] | 2.6496 |
|--------------------------|--------|

## If $a > t$

|                                |         |
|--------------------------------|---------|
| $A_{s,req}$ [in <sup>2</sup> ] | 10.88   |
| $M_{u,req}$ [k-ft]             | 1224.00 |
| $M_{u,act}$ [k-ft]             | 996.16  |
| $R_n$                          | 1441.20 |
| $\rho_s = 0.03$                |         |
| $a$ [in]                       | 14.64   |
| $c$ [in]                       | 17.22   |
| $e_t$                          | 0.00    |
| $A_{s,req}$ [in <sup>2</sup> ] | 13.27   |
| $A_s$ [in <sup>2</sup> ]       | 24.15   |

## Bar Selection:

| BAR | Number of Bars in a Single Layer of Reinforcing |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----|-------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|     | 2                                               |       | 3     |       | 4     |       | 5     |       | 6     |       | 7     |       | 8     |       |
|     | Area                                            | Width | Area  | Width | Area  | Width | Area  | Width | Area  | Width | Area  | Width | Area  | Width |
| #4  | 0.39                                            | 6.80  | 0.58  | 8.30  | 0.78  | 9.80  | 0.98  | 11.30 | 1.18  | 12.80 | 1.37  | 14.30 | 1.57  | 15.80 |
| #5  | 0.61                                            | 6.90  | 0.91  | 8.50  | 1.23  | 10.20 | 1.55  | 11.80 | 1.84  | 13.4  | 2.13  | 15.00 | 2.43  | 16.70 |
| #6  | 0.88                                            | 7.00  | 1.32  | 8.80  | 1.77  | 10.50 | 2.21  | 12.30 | 2.65  | 14.00 | 3.09  | 15.80 | 3.53  | 17.50 |
| #7  | 1.20                                            | 7.20  | 1.80  | 9.00  | 2.41  | 10.90 | 3.01  | 12.80 | 3.61  | 14.70 | 4.21  | 16.50 | 4.81  | 18.40 |
| #8  | 1.57                                            | 7.30  | 2.35  | 9.30  | 3.14  | 11.30 | 3.93  | 13.30 | 4.71  | 15.30 | 5.50  | 17.30 | 6.28  | 19.30 |
| #9  | 2.00                                            | 7.60  | 3.00  | 9.80  | 4.00  | 12.10 | 5.00  | 14.30 | 6.00  | 16.60 | 7.00  | 18.80 | 8.00  | 21.10 |
| #10 | 2.53                                            | 7.80  | 3.79  | 10.40 | 5.06  | 12.90 | 6.33  | 15.50 | 7.59  | 18.00 | 8.86  | 20.50 | 10.12 | 23.10 |
| #11 | 3.12                                            | 8.10  | 4.68  | 10.90 | 6.25  | 13.80 | 7.81  | 16.60 | 9.37  | 19.40 | 10.94 | 22.20 | 12.50 | 25.00 |
| #14 | 4.50                                            | 8.90  | 6.75  | 12.30 | 9.00  | 15.70 | 11.25 | 19.00 | 13.50 | 22.40 | 15.75 | 25.80 | 18.00 | 29.20 |
| #18 | 8.00                                            | 10.60 | 12.00 | 15.10 | 16.00 | 19.60 | 20.00 | 24.50 | 24.00 | 28.60 | 28.00 | 33.10 | 32.00 | 37.70 |

# Manual Excel For Chemical Engineering Calculations

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servermanagercmd /i powershell web server web isapi ext web metabase web lgcy mgmt console

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