

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

Select Strength:

$f_y = 60000 \text{ psi}$
 $f'_c = 4000 \text{ psi}$

Select design p :

p_{max}

Select Load Case:

$1.2D + 1.6L$

$f_y = 60000$
 $p_{max} = 0.0033$
 $R_n \text{ at } d_{max} [\text{psi}] = 192.2$

$f'_c = 4000$
 $p_{max} = 0.0181$
 $R_n \text{ at } d_{max} [\text{psi}] = 912.0$

Design $p = 0.0069$
Design $R_n = 388.79$
 $bd^3 = 7813.549$
 $d = 22.10$

Est $w_s [\text{lb/ft}] = 1.78$
 $M_u [\text{ft-k}] = 227.8$
 $M_u [\text{ft-k}] = 253.2$
Density [pcf] 150

Enter Givens & Estimates:

$w_s [\text{lb/ft}]$	0.55	$b_w [\text{in}]$	16	$b_{wm} [\text{in}]$	80
$w_s [\text{lb/ft}]$	0.4	$h [\text{in}]$	27	$t [\text{in}]$	3
Length [ft]	32	$d [\text{in}]$	24	$a [\text{in}]$	0.49
Clear Cover [in]	3	$A_s [\text{in}^2]$	2.65	ρ_s	0.85
Est Self Wt [pcf]	400	$A_{s,max} [\text{in}^2]$	1.214	$e [\text{in}]$	0.57
Actual Self Wt [pcf]	400.00	$A_{s,max} [\text{in}^2]$	1.280	e_s	0.1227
		$\phi M_u [\text{ft-k}]$	253.36		

Neutral Axis Calculations:

$T [\text{kips}]$ 142.2
 $A_g [\text{in}^2]$ 41.8
 $A_{s,req} [\text{in}^2]$ 240

$z [\text{in}] = 21.60$
 $z [\text{in}] = 22.50$
Governing z 22.50

Select A_s in Tension:

BAR	Qty	$A_s [\text{in}^2]$
#8	3	2.37

If $a > t$

$A_{sc} [\text{in}^2]$	10.88
$M_{u,max} [\text{ft-k}]$	1224.00
$M_{u,r} [\text{ft-k}]$	996.16
$R_{n,r}$	1441.20
$\rho_s =$	0.63
$a [\text{in}]$	14.64
$e [\text{in}]$	17.22
e_s	0.00
$A_{s,max} [\text{in}^2]$	13.27
$A_s [\text{in}^2]$	24.15

If $a < t$

$A_s [\text{in}^2]$	2.6406
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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	0.59	6.80	0.58	8.50	0.78	9.80	0.98	11.30	1.18	12.80	1.37	14.30	1.57	15.80		
#5	0.81	6.90	0.91	8.50	1.23	10.10	1.53	11.60	1.84	13.4	2.15	15.00	2.45	16.70		
#6	0.88	7.00	1.32	8.80	1.77	10.50	2.21	12.50	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	9.50	3.14	11.30	3.95	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	10.80	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	12.50	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	24.10	24.00	28.80	28.00	33.50	32.00	37.70		

Section (1) - b_w

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Christian G. Meyer



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