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

Select Strength:	fy = 60000 psi; f'c = 4000 psi	Select design ρ:	ρmax	Select Load Case:	1.2D + 1.6L

f_y = 60000	f'_c = 4000	Design ρ = 0.0069	Est w_u [k/ft] = 1.78
$ρ_{min}$ = 0.0033	$ρ_{max}$ = 0.0181	Design R_n = 388.79	M_u [ft-k] = 227.8
R_n af $ρ_{min}$ [psi] = 192.2	R_n af $ρ_{max}$ [psi] = 912.0	bd^2 = 7813.549	M_u [ft-k] = 253.2
		d = 22.10	Density [pcf] 150
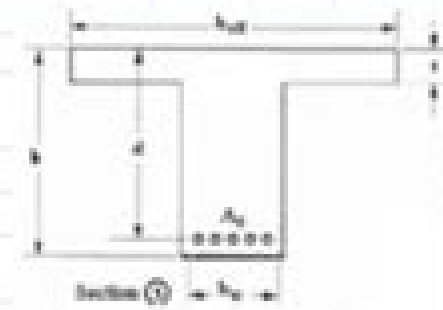
Enter Givens & Estimates:

w_D [k/ft]	0.55	b_w [in]	16	b_{eff} [in]	80
w_L [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_s [in²]	2.65	$β_1$	0.85
Est Self Wt [plf]	400	$A_{s,min}$ [in²]	1.234	c [in]	0.57
Actual Self Wt [plf]	450.00	$A_{s,min}$ [in²]	1.280	$ε_t$	0.1227
		$φM_n$ [ft-k]	253.36		

Neutral Axis Calculations: N.A. is in the flange

T [kips]	142.2	z [in] =	21.60	
A_s [in²]	41.8	z [in] =	22.50	
A_{surge} [in²]	240	Governing z	22.50	

Select A_s in Tension:

BAR	Qty	As [in²]
#8	3	2.37

If a < ht

A_s [in²]	2.6496

If a > t

A_{sf} [in²]	10.88
M_{nw} [k-ft]	1224.00
M_{sf} [k-ft]	996.16
R_{nw}	1441.20
$ρ_w$ =	0.03
a [in]	14.64
c [in]	17.22
$ε_t$	0.00
A_{sw} [in²]	13.27
A_s [in²]	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	1.53	11.80	1.84	13.4	2.15	15.00	2.45	16.70
#6	0.88	7.00	1.32	8.60	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	24.10	24.00	28.60	28.00	33.10	32.00	37.70

Excel Formula For Electrical Engineering Calculations

R Sandford

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