

ELEMENTO	ACO	N	DIAM	QUANT	UNIT	EM	C.TOTAL
VB1	CA60	1	5,0	250	(m)	1250	500
	CA60	2	5,0	270	(m)	1350	540
VB2	CA60	3	5,0	270	(m)	1350	540
	CA60	4	5,0	146	(m)	730	15478
VB3	CA60	5	5,0	180	(m)	900	360
	CA60	6	5,0	220	(m)	1100	440
VB4	CA60	7	8,0	220	(m)	1760	2948
	CA60	8	8,0	202	(m)	1616	2688
VB5	CA60	9	8,0	250	(m)	2000	3500
	CA60	10	8,0	227	(m)	1818	3054
VB6	CA60	11	8,0	227	(m)	1818	3054
	CA60	12	8,0	1136	(m)	9168	15288
VB7	CA60	13	10,0	108	(m)	1080	108
	CA60	14	10,0	170	(m)	1700	170
VB8	CA60	15	10,0	181	(m)	1810	181
	CA60	16	10,0	225	(m)	2250	450
VB9	CA60	17	10,0	225	(m)	2250	450
	CA60	18	10,0	340	(m)	3400	680
VB10	CA60	19	10,0	340	(m)	3400	680
	CA60	20	10,0	180	(m)	1800	180
VB11	CA60	21	12,5	190	(m)	2375	2375
	CA60	22	12,5	125	(m)	1562	1562
VB12	CA60	23	12,5	106	(m)	1325	954
	CA60	24	8,0	227	(m)	1818	3054
VB13	CA60	25	5,0	188	(m)	940	372
	CA60	26	5,0	188	(m)	940	372
VB14	CA60	27	5,0	106	(m)	530	216
	CA60	28	8,0	188	(m)	1504	602
VB15	CA60	29	5,0	188	(m)	940	372
	CA60	30	5,0	188	(m)	940	372
VB16	CA60	31	8,0	333	(m)	2664	666
	CA60	32	5,0	225	(m)	1125	452
VB17	CA60	33	5,0	246	(m)	1230	492
	CA60	34	5,0	275	(m)	1375	550
VB18	CA60	35	5,0	275	(m)	1375	550
	CA60	36	8,0	152	(m)	1216	1658
VB19	CA60	37	8,0	2048	(m)	16384	616
	CA60	38	8,0	2	(m)	16	2
VB20	CA60	39	8,0	465	(m)	3720	590
	CA60	40	10,0	210	(m)	2100	270
VB21	CA60	41	10,0	2272	(m)	18176	246
	CA60	42	12,5	210	(m)	2625	330
VB22	CA60	43	12,5	2	(m)	25	190
	CA60	44	12,5	2	(m)	25	190
VB23	CA60	45	12,5	2	(m)	25	190
	CA60	46	12,5	2	(m)	25	190
VB24	CA60	47	12,5	2	(m)	25	190
	CA60	48	12,5	2	(m)	25	190
VB25	CA60	49	12,5	2	(m)	25	190
	CA60	50	5,0	48	(m)	240	2400
VB26	CA60	51	5,0	476	(m)	3808	710
	CA60	52	8,0	2	(m)	16	180
VB27	CA60	53	8,0	200	(m)	1600	370
	CA60	54	12,5	1	(m)	12,5	1440
VB28	CA60	55	5,0	270	(m)	2160	540
	CA60	56	5,0	2	(m)	16	1168
VB29	CA60	57	8,0	106	(m)	848	188
	CA60	58	8,0	1	(m)	8	586
VB30	CA60	59	8,0	646	(m)	5168	1292
	CA60	60	8,0	2	(m)	16	790
VB31	CA60	61	10,0	1126	(m)	9008	2252
	CA60	62	10,0	1	(m)	8	135
VB32	CA60	63	12,5	180	(m)	1440	370
	CA60	64	12,5	2	(m)	16	1168
VB33	CA60	65	5,0	210	(m)	1680	440
	CA60	66	5,0	2	(m)	16	1168
VB34	CA60	67	8,0	2	(m)	16	942
	CA60	68	8,0	2	(m)	16	942
VB35	CA60	69	10,0	2	(m)	16	305
	CA60	70	8,0	36	(m)	288	3816
VB36	CA60	71	8,0	2	(m)	16	1872
	CA60	72	8,0	2	(m)	16	1872
VB37	CA60	73	5,0	2	(m)	16	200
	CA60	74	5,0	2	(m)	16	200
VB38	CA60	75	10,0	2	(m)	16	342
	CA60	76	10,0	2	(m)	16	342
VB39	CA60	77	5,0	2	(m)	16	322
	CA60	78	5,0	16	(m)	128	328
VB40	CA60	79	10,0	2	(m)	16	288
	CA60	80	10,0	2	(m)	16	832
VB41	CA60	81	5,0	2	(m)	16	1452
	CA60	82	5,0	34	(m)	272	3604
VB42	CA60	83	8,0	2	(m)	16	1482
	CA60	84	8,0	2	(m)	16	1482
VB43	CA60	85	5,0	2	(m)	16	1908
	CA60	86	8,0	18	(m)	144	1908
VB44	CA60	87	8,0	1	(m)	8	155
	CA60	88	10,0	1	(m)	8	464
VB45	CA60	89	10,0	2	(m)	16	526
	CA60	90	10,0	2	(m)	16	526

Resumo do aço

ACO	DIAM	C.TOTAL	PESO - 10%
CA50	5,0	322	8,7
CA50	6,3	102	9,7
CA50	8,0	223,4	104
CA60	10,0	153,3	42,2
CA60	16,0	24,3	117,8
CA60	5,0	694,8	117,8
PRESO TOTAL			
CA50	385,1		
CA60	117,8		

Volume de concreto (C=20) = 7,81 m³  
 Área de forma = 120,40 m²

Calculo Estrutural

**KENNEDY VASCONCELOS**  
 ENGENHEIRO CIVIL

**KENNEDY VASCONCELOS**  
 INSTALADORAS PREDIAIS  
 (85) 9115-9136

PREFEITURA MUNICIPAL DE SOBRAL  
 UNID. BASICA DE SAUDE - CONJ. NOVA CALÇADA - SOBRAL - CE

PROJETO DE: Fº KENNEDY M. VASCONCELOS  
 EM: CIVIL - CREA/CE/2880

09/20