

Relatório do aço

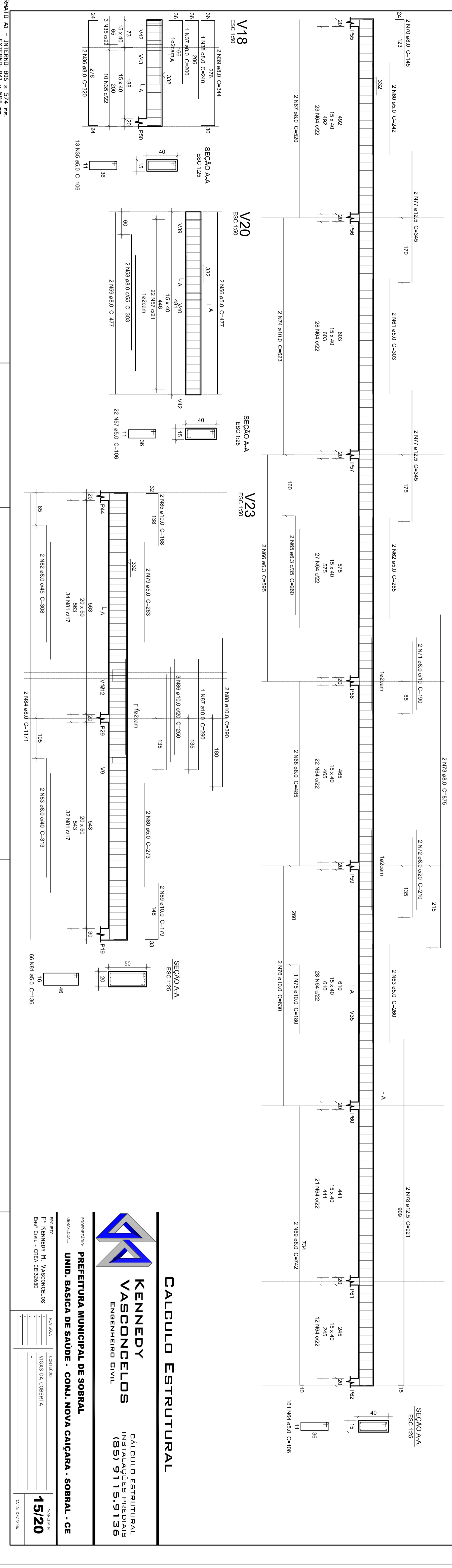
ELEMENTO	AÇO	N	DIAM (mm)	QUANT (Barras)	UNID (cm)	C.TOTAL (cm)
V13	CA60	1	5,0	33	106	3486
	CA50	2	7,76	2	480	1522
	CA50	3	16,0	2	480	960
	CA50	4	14,0	2	480	840
	CA60	5	5,0	2	513	1026
V14	CA60	6	5,0	24	106	2544
	CA50	7	8,0	1	343	343
	CA50	8	8,0	2	551	1102
	CA60	9	8,0	2	247	494
	CA60	10	5,0	2	247	494
V15	CA60	11	5,0	36	106	3816
	CA50	12	8,0	2	844	1688
	CA50	13	8,0	1	170	170
	CA50	14	8,0	2	575	1150
	CA50	15	8,0	2	575	1150
V16	CA60	16	5,0	2	300	600
	CA60	17	5,0	77	116	8832
	CA50	18	8,0	1	170	170
	CA50	19	8,0	2	440	880
	CA50	20	8,0	3	239	717
V17	CA50	21	8,0	1	325	325
	CA50	22	8,0	2	440	880
	CA50	23	12,5	1	735	1430
	CA50	24	12,5	2	400	800
	CA50	25	12,5	2	253	506
V18	CA50	26	12,5	2	425	850
	CA50	27	16,0	2	445	890
	CA50	28	16,0	2	445	890
	CA50	29	5,0	5	106	530
	CA50	30	6,3	4	149	596
V19	CA50	31	8,0	2	1188	2386
	CA50	32	8,0	2	1188	2386
	CA50	33	11,0	2	895	1810
	CA50	34	10,0	13	106	1378
	CA50	35	5,0	2	895	1790
V20	CA50	36	8,0	1	500	500
	CA50	37	8,0	1	200	200
	CA60	38	8,0	2	330	660
	CA60	39	8,0	2	273	546
	CA60	40	5,0	2	200	400
V21	CA60	41	5,0	2	200	400
	CA60	42	5,0	2	200	400
	CA60	43	5,0	2	200	400
	CA60	44	5,0	2	200	400
	CA60	45	8,0	2	280	560
V22	CA50	46	8,0	2	520	1040
	CA50	47	8,0	2	1078	2156
	CA50	48	8,0	2	1078	2156
	CA50	49	12,5	1	283	283
	CA50	50	12,5	1	240	240
V23	CA50	51	12,5	2	640	1280
	CA50	52	16,0	1	355	710
	CA50	53	16,0	1	355	710
	CA50	54	16,0	1	280	280
	CA50	55	16,0	2	863	1726
V24	CA50	56	5,0	2	477	954
	CA50	57	5,0	2	275	550
	CA50	58	8,0	2	303	606
	CA50	59	8,0	2	477	954
	CA50	60	5,0	2	242	484
V25	CA60	61	5,0	2	303	606
	CA60	62	5,0	2	303	606
	CA60	63	5,0	2	280	560
	CA60	64	5,0	161	106	17066
	CA60	65	6,3	2	250	500
V26	CA50	66	6,3	2	525	1050
	CA50	67	6,3	2	465	930
	CA50	68	8,0	2	742	1484
	CA50	69	8,0	2	145	290
	CA50	70	8,0	2	290	580
V27	CA50	71	8,0	2	290	580
	CA50	72	8,0	2	290	580
	CA50	73	8,0	2	875	1750
	CA50	74	10,0	2	623	1246
	CA50	75	10,0	1	160	160
V28	CA50	76	10,0	2	1260	2520
	CA50	77	12,5	4	921	1842
	CA50	78	12,5	2	263	526
	CA60	79	5,0	2	283	566
	CA60	80	5,0	6	273	546
V29	CA60	81	5,0	2	308	616
	CA50	82	8,0	2	308	616
	CA50	83	8,0	2	313	626
	CA50	84	8,0	2	1171	2342
	CA50	85	10,0	2	168	336
V30	CA50	86	10,0	2	250	500
	CA50	87	10,0	2	250	500
	CA50	88	10,0	2	390	780
	CA50	89	10,0	2	179	358
	CA50	90	10,0	2	179	358

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA60	6,3	33,5	1208
CA50	10	278,4	1020
CA50	12,5	85,9	30,9
CA50	16,0	113,3	41,3
CA50	5,0	780,7	282,4
PESO TOTAL (kg)			132,4
CA60	403		
CA50	132,4		

Volume de concreto (C=30) = 8,77 m³

Área de forma = 130,25 m²



CALCULO ESTRUTURAL

KENNEDY VASCONCELOS ENGENHEIRO CIVIL

PREFEITURA MUNICIPAL DE SOBRAL

UNID. BASICA DE SAUDE - CONJ. NOVA CAIÇARA - SOBRAL - CE

CALCULO ESTRUTURAL
INSTALAÇÕES PREDIAIS
(85) 9115.9136

PROJETO DE: _____

GERADO POR: _____

EMPRESA: **KENNEDY VASCONCELOS ENGENHEIRO CIVIL**

CLIENTE: **PREFEITURA MUNICIPAL DE SOBRAL**

PROJETO: **UNID. BASICA DE SAUDE - CONJ. NOVA CAIÇARA - SOBRAL - CE**

DATA DE EMISSÃO: **15/20**