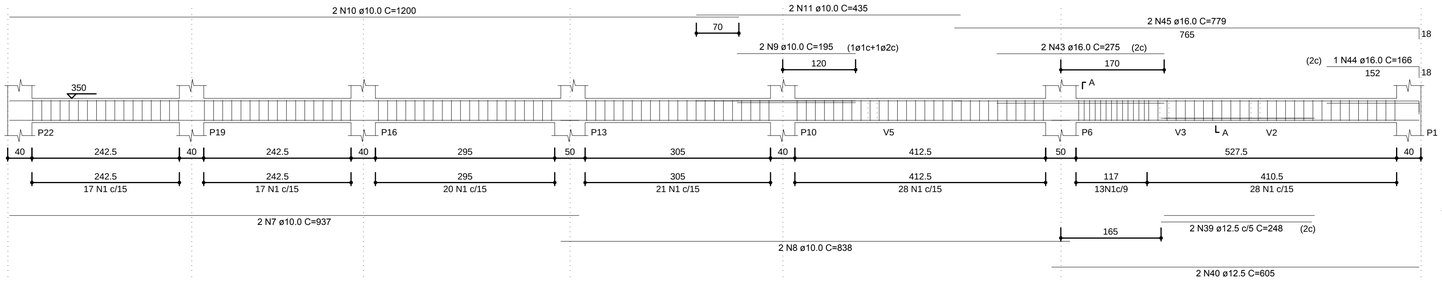
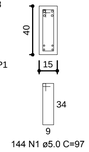
V11 (15 x 40)
ESC 1:50

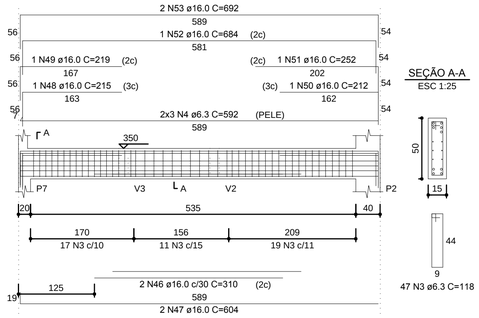


SEÇÃO A-A
ESC 1:25



144 N1 ø5.0 C=97

V13 (15 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

47 N3 ø6.3 C=118

RELAÇÃO DO AÇO

V11 V12 V13
V14 V15 V16

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	378	97	36666
	2	5.0	112	117	13104
CA50	3	6.3	47	118	5546
	4	6.3	6	592	3552
	5	6.3	6	1196	7176
	6	6.3	6	603	3618
	7	10.0	2	937	1874
	8	10.0	2	838	1676
	9	10.0	2	195	390
	10	10.0	4	1200	4800
	11	10.0	2	435	870
	12	10.0	1	228	228
	13	10.0	2	1174	2348
	14	10.0	2	174	348
	15	10.0	3	240	720
	16	10.0	1	1099	1099
	17	10.0	2	1198	2396
	18	10.0	2	263	526
	19	10.0	2	954	1908
	20	10.0	2	225	450
	21	10.0	2	844	1688
	22	10.0	2	152	304
	23	10.0	1	155	155
	24	10.0	2	192	384
	25	10.0	2	195	390
	26	10.0	1	605	605
	27	10.0	1	625	625
	28	10.0	2	1198	2396
	29	10.0	2	675	1350
	30	10.0	2	333	666
	31	10.0	2	944	1888
	32	10.0	2	248	496
	33	10.0	2	839	1678
	34	10.0	1	175	175
	35	10.0	3	220	660
	36	10.0	1	265	265
	37	10.0	1	620	620
	38	10.0	2	629	1258
	39	12.5	2	248	496
	40	12.5	2	605	1210
	41	12.5	2	338	676
	42	12.5	2	601	1202
	43	16.0	2	275	550
	44	16.0	1	166	166
	45	16.0	2	779	1558
	46	16.0	2	310	620
	47	16.0	2	604	1208
	48	16.0	1	215	215
	49	16.0	1	219	219
	50	16.0	1	212	212
	51	16.0	1	252	252
	52	16.0	1	684	684
	53	16.0	2	692	1384
	54	16.0	1	215	215
	55	16.0	1	260	260
	56	16.0	2	340	680

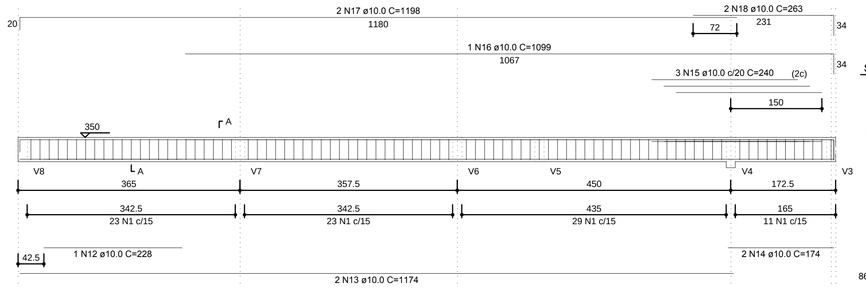
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	198.9	48,15
	10.0	352.4	215,10
	12.5	35.8	34,20
	16.0	82.2	128,52
CA60	5.0	497.7	75,96

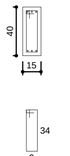
PESO TOTAL (kg)	
CA50	425,97
CA60	75,96

Volume de concreto (C-30) = 5.36 m³
Área de forma = 84.06 m²

V12 (15 x 40)
ESC 1:50

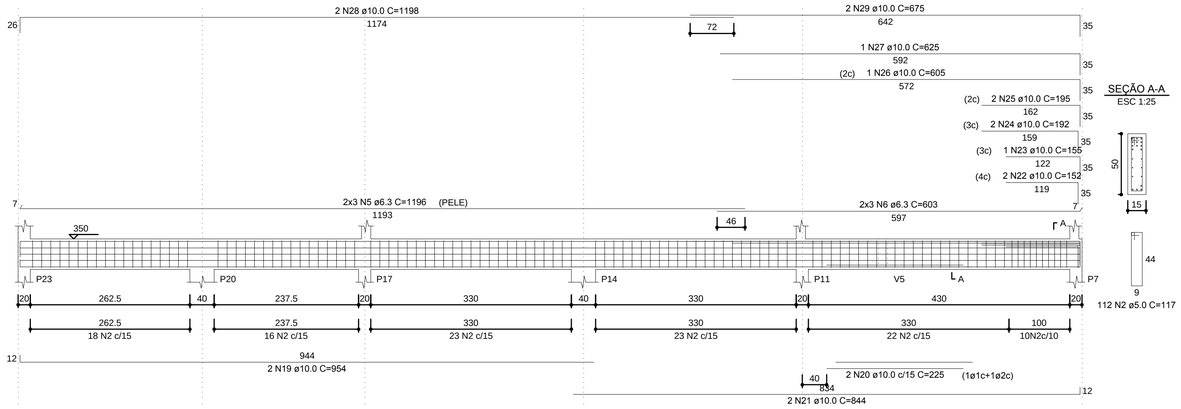


SEÇÃO A-A
ESC 1:25



86 N1 ø5.0 C=97

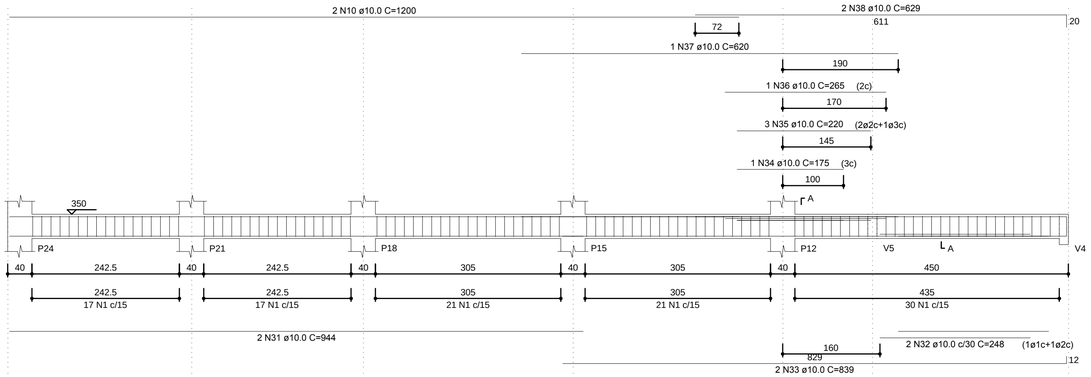
V14 (15 x 50)
ESC 1:50



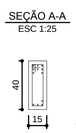
SEÇÃO A-A
ESC 1:25

112 N2 ø5.0 C=117

V16 (15 x 40)
ESC 1:50

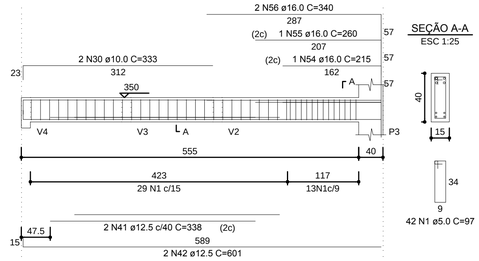


SEÇÃO A-A
ESC 1:25



106 N1 ø5.0 C=97

V15 (15 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

42 N1 ø5.0 C=97

RELAÇÃO DO AÇO

V17 V18

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	149	97	14453
CA50	2	10.0	2	932	1864
	3	10.0	2	367	734
	4	10.0	2	1187	2374
	5	10.0	2	178	356
	6	10.0	2	1064	2128
	7	10.0	2	1103	2206

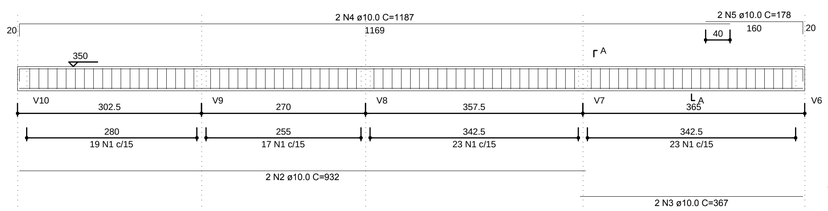
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	96.6	58,95
CA60	5.0	144.5	22,05

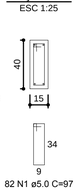
PESO TOTAL (kg)	
CA50	58,95
CA60	22,05

Volume de concreto (C-30) = 1.41 m³
Área de forma = 22.37 m²

V17 (15 x 40)
ESC 1:50

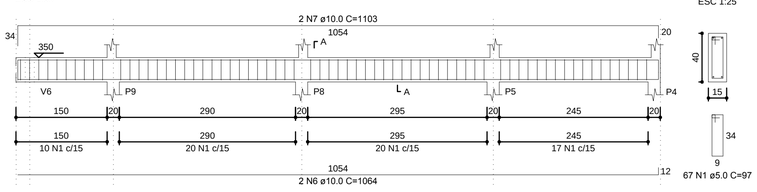


SEÇÃO A-A
ESC 1:25

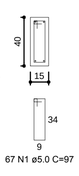


82 N1 ø5.0 C=97

V18 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



67 N1 ø5.0 C=97

Detalhe Vigas Térreo
Escala 1:50

PREFEITURA MUNICIPAL
Administração 2021 / 2024

ADMINISTRAÇÃO — RESP. TÉCNICO

PRANCHA: 08/13

PROJETO: ESTRUTURAL

OBRA: REFORMA E AMPLIAÇÃO CMEI NONA LUIZA

ÁREA:
Área da edificação Existente: 755,65 m²
Area de Reforma: 244,61 m²
Área a Ampliar: 228,80 m²
Área Total: 984,45 m²

ESPECIFICAÇÕES: DETALHE VIGAS TÉRREO

DATA: SETEMBRO / 2021

LOTE: 5/6 — QUADRA: 01

LOCAL: RUA PAULO ANTONIO DE GODOY
BAIRRO DA LUZ

ESCALA: INDICADA

MUNICÍPIO: DOIS VIZINHOS — ESTADO: PARANÁ

ARQUIVO