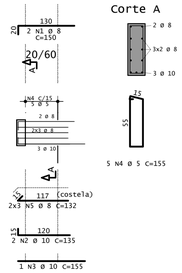
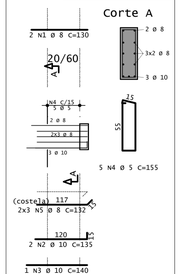
V40

Volume m3	Área de forma m2
0.10	1.33



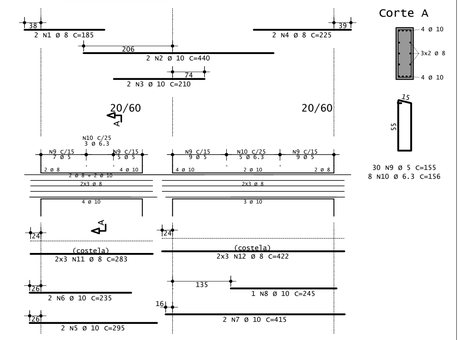
V41

Volume m3	Área de forma m2
0.10	1.33



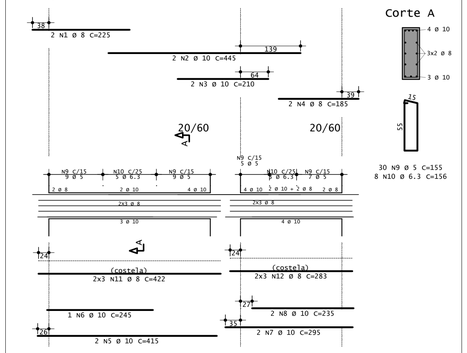
V42

Volume m3	Área de forma m2
0.73	9.51



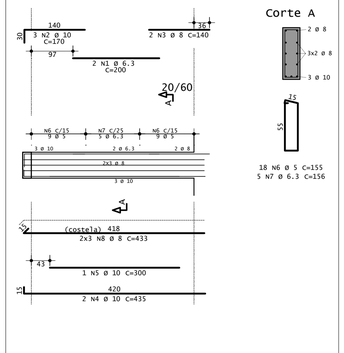
V43

Volume m3	Área de forma m2
0.73	9.51



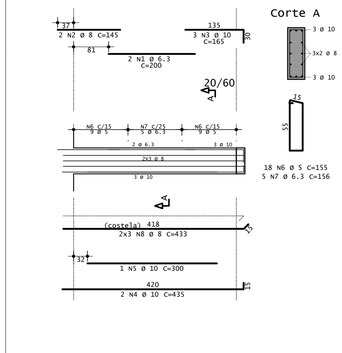
V44

Volume m3	Área de forma m2
0.41	5.36



V45

Volume m3	Área de forma m2
0.41	5.36



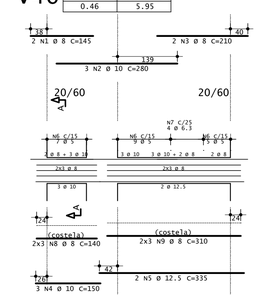
AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V40					
50A	1	8	2	150	300
50A	2	10	2	135	270
50A	3	10	1	155	155
50A	4	5	5	155	775
50A	5	8	6	132	792
V41					
50A	1	8	2	130	260
50A	2	10	2	135	270
50A	3	10	1	140	140
60A	4	5	5	155	775
50A	5	8	6	132	792
V42					
50A	1	8	2	185	370
50A	2	10	2	440	880
50A	3	10	2	210	420
50A	4	10	2	225	450
50A	5	10	2	235	470
50A	7	10	2	415	830
50A	8	10	1	245	245
60A	9	5	30	155	4650
50A	10	6.3	8	156	1248
50A	11	8	6	283	1698
50A	12	8	6	422	2532
V43					
50A	1	8	2	225	450
50A	2	10	2	445	890
50A	3	10	2	210	420
50A	4	8	2	185	370
50A	5	10	2	415	830
50A	7	10	1	245	245
50A	8	10	2	295	590
50A	9	10	2	235	470
60A	9	5	30	155	4650
50A	10	6.3	8	156	1248
50A	11	8	6	283	1698
50A	12	8	6	422	2532
V44					
50A	1	6.3	2	200	400
50A	2	10	3	170	510
50A	3	8	2	140	280
50A	4	10	2	435	870
50A	5	10	1	300	300
60A	6	5	18	155	2790
50A	7	6.3	5	156	780
50A	8	8	6	433	2598
V45					
50A	1	6.3	2	200	400
50A	2	8	2	145	290
50A	3	10	3	165	495
50A	4	10	2	435	870
50A	5	10	1	300	300
60A	6	5	18	155	2790
50A	7	6.3	5	156	780
50A	8	8	6	433	2598

AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V46					
50A	1	8	2	145	290
50A	2	10	3	280	840
50A	3	8	2	210	420
50A	4	10	3	150	450
50A	5	12.5	2	335	670
60A	6	5	21	155	3255
50A	7	6.3	4	156	624
50A	8	8	6	140	840
50A	9	8	6	310	1860
V47					
50A	1	8	2	210	420
50A	2	10	3	280	840
50A	3	8	2	145	290
50A	4	12.5	2	335	670
50A	5	10	3	155	465
60A	6	5	21	155	3255
50A	7	6.3	4	156	624
50A	8	8	6	310	1860
50A	9	8	6	140	840
V48					
50A	1	10	3	170	510
50A	2	10	2	385	770
50A	3	10	1	200	200
50A	4	8	2	220	440
50A	5	10	2	260	520
50A	6	10	1	155	155
50A	7	10	2	355	710
50A	8	10	1	250	250
60A	9	5	27	155	4185
50A	10	6.3	5	156	780
50A	11	8	6	72	432
50A	12	8	6	212	1272
50A	13	8	6	359	2154
V49					
50A	1	8	2	220	440
50A	2	10	2	385	770
50A	3	10	1	200	200
50A	4	10	3	170	510
50A	5	10	2	355	710
50A	6	10	1	250	250
50A	7	10	2	260	520
50A	8	10	1	155	155
60A	9	5	27	155	4185
50A	10	6.3	5	156	780
50A	11	8	6	359	2154
50A	12	8	6	212	1272
50A	13	8	6	72	432
V50					
50A	1	8	2	200	400
50A	2	10	2	385	770
50A	3	10	1	200	200
50A	4	10	2	325	650
50A	5	10	2	220	440
50A	6	10	1	160	160
50A	7	10	3	266	4030
50A	8	8	6	313	1878
50A	9	8	6	163	978
V51					
50A	1	10	3	575	1725
50A	2	10	2	125	250
50A	3	10	1	170	170
50A	4	10	2	295	590
50A	5	10	1	195	195
50A	6	6.3	1	71	71
60A	7	5	16	155	2480
50A	8	6.3	4	156	624
50A	9	8	6	117	702
50A	10	8	6	282	1692
V52					
50A	1	6.3	4	455	1820
50A	2	10	4	170	680
50A	3	6.3	2	490	980
50A	4	10	6	350	2100
50A	5	16	2	690	1380
50A	6	16	4	590	2360
50A	7	16	4	705	2820
50A	8	16	2	695	1390
60A	9	5	60	155	9300
50A	10	6.3	40	156	6240
50A	11	8	18	645	11610
V53					
50A	1	10	3	575	1725
50A	2	10	2	290	580
50A	3	10	1	195	195
50A	4	10	2	170	340
50A	5	10	1	170	170
50A	6	6.3	1	71	71
60A	7	5	16	155	2480
50A	8	6.3	4	156	624
50A	9	8	6	282	1692
50A	10	8	6	117	702
V54					
50A	1	8	2	210	420
50A	2	10	3	395	1185
50A	3	10	2	365	730
50A	4	10	1	200	200
50A	5	8	2	200	400
50A	6	10	3	325	975
50A	7	10	3	150	450
50A	8	10	2	310	620
50A	9	10	1	220	220
60A	10	5	44	155	6820
50A	11	8	6	312	1872
50A	12	8	6	163	978
50A	13	8	6	313	1878
V55					
50A	1	10	3	240	720
50A	2	8	2	215	430
50A	3	10	2	375	750
50A	4	10	1	230	230
60A	5	5	16	155	2480
50A	6	6.3	5	156	780
50A	7	8	6	370	2220
V56					
50A	1	8	2	215	430
50A	2	10	3	240	720
50A	3	10	2	375	750
50A	4	10	1	230	230
60A	5	5	16	155	2480
50A	6	6.3	5	156	780
50A	7	8	6	370	2220
V57					
50A	1	10	3	130	390
50A	2	10	2	85	170
50A	3	10	1	140	140
60A	4	5	3	155	465
50A	5	8	6	82	492
V58					
50A	1	10	3	130	390
50A	2	10	2	85	170
50A	3	10	1	140	140
60A	4	5	3	155	465
50A	5	8	6	82	492

RESUMO DE AÇO			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60A	5	623	96
50A	6.3	197	48
50A	8	649	256
50A	10	400	247
50A	12.5	13	13
50A	16	80	125
Peso Total	60A =		96 kg
Peso Total	50A =		690 kg

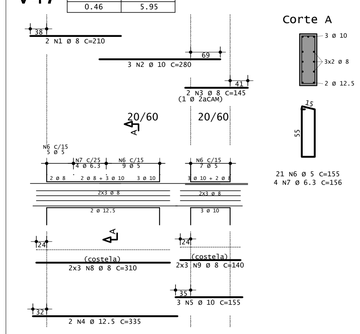
V46

Volume m3	Área de forma m2
0.46	5.95



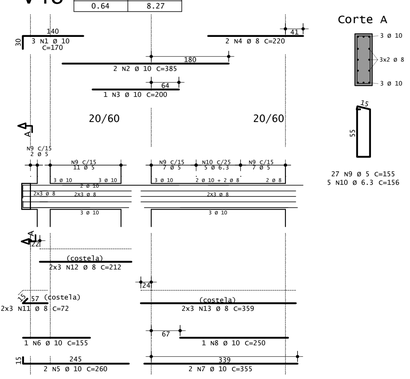
V47

Volume m3	Área de forma m2
0.46	5.95



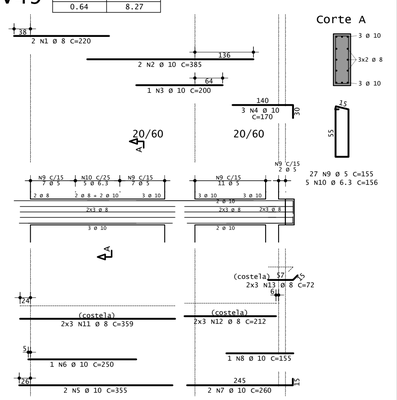
V48

Volume m3	Área de forma m2
0.64	8.27



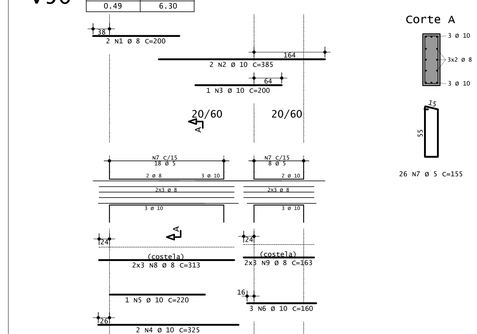
V49

Volume m3	Área de forma m2
0.64	8.27



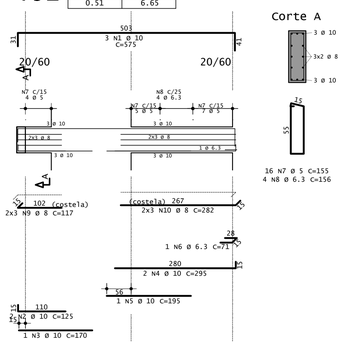
V50

Volume m3	Área de forma m2
0.49	6.30



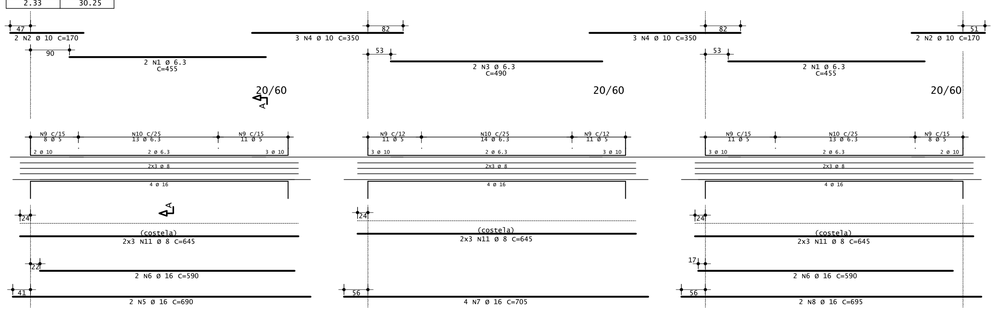
V51

Volume m3	Área de forma m2
0.51	6.65



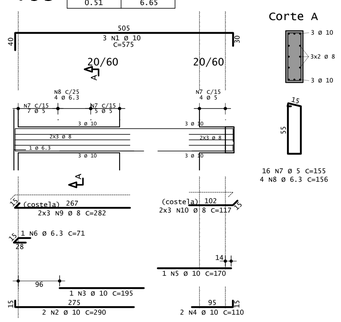
V52

Volume m3	Área de forma m2
2.33	30.25



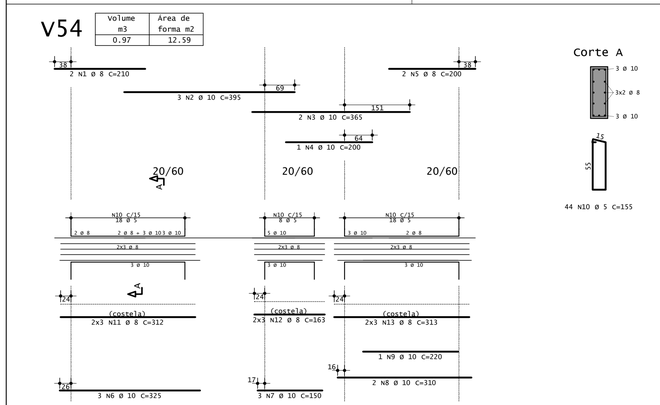
V53

Volume m3	Área de forma m2
0.51	6.65



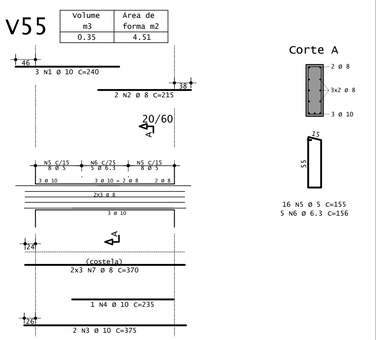
V54

Volume m3	Área de forma m2
0.97	12.59



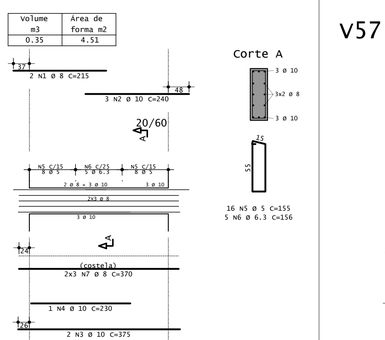
V55

Volume m3	Área de forma m2
0.35	4.51



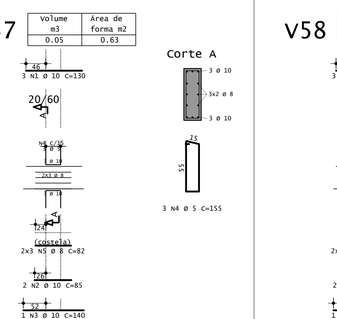
V56

Volume m3	Área de forma m2
0.35	4.51



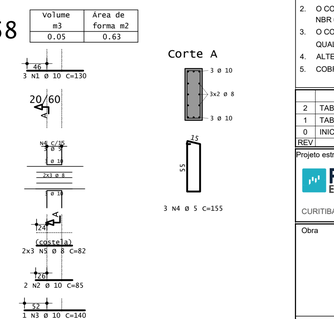
V57

Volume m3	Área de forma m2
0.05	0.63



V58

Volume m3	Área de forma m2
0.05	0.63



WELIGTONN RENANN TAVARES: 00959132970

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DN: C=BR, O=ICP-Brasil, OU=VideoConferencia, OU=25196555000100, OU=Secretaria da Receita Federal do Brasil - RFB, OU=RFB e-CPF A1, OU=(em branco), CN=WELIGTONN RENANN TAVARES:00959132970
Razão: Eu sou o autor deste documento
Data: 2022.04.05 14:33:30

NOTAS DE PROJETO:

1. DIMENSÕES EM cm, EXCETO ONDE INDICADO.
2. O CONCRETO UTILIZADO DEVERÁ SER DA CLASSE C30 CONFORME DISCRIMINADO NA NBR 6118 (ABNT, 2014).
3. O CONTROLE DAS DIMENSÕES AQUI APRESENTADAS DEVERÁ SER RIGOROSO, QUALQUER DIVERGÊNCIA O PROJETISTA DEVERÁ SER CONSULTADO.
4. ALTERAÇÕES DO PROJETO DEVERÃO SAR VALIDADAS PELO PROJETISTA.
5. COBRIMENTO MÍNIMO DAS ARMADURAS: 2,5 cm.

REV	DESCRIÇÃO	DESENHO	APROV.	DATA
2	TABELA DE VOLUME E ÁREA DE FORMA	PJC	PJC	04/04/2022
1	TABELA DE VOLUME E ÁREA DE FORMA	PJC	PJC	25/03/2022
0	INICIAL	PJC	PJC	18/10/2019

Projeto estrutural

PROJECALC ENGENHARIA

CURITIBA - PR (41) 3013-4787

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Obra

GINÁSIO DE ESPORTES PATO BRANCO

PROJETO EXECUTIVO

ARMADURAS DAS VIGAS BALDRAME - 05/10

Proprietário
PREFEITURA MUNICIPAL DE PATO BRANCO

Endereço
RUA BENJAMIN BORGES, BAIRRO FRARON, PATO BRANCO - PR

Escala: INDICADA
Data: 10/2019
NUMERO: D-032-CF-005