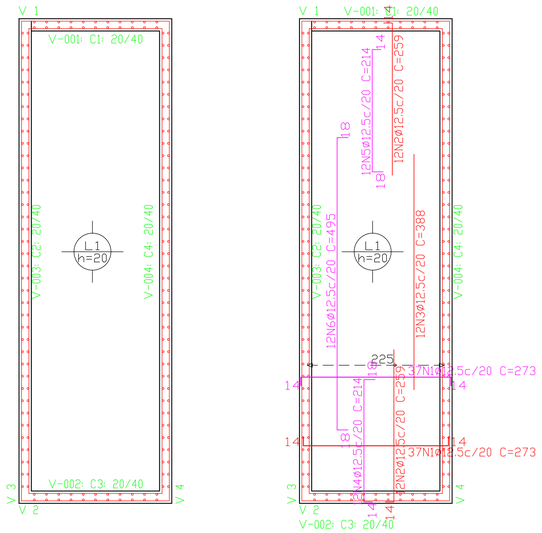
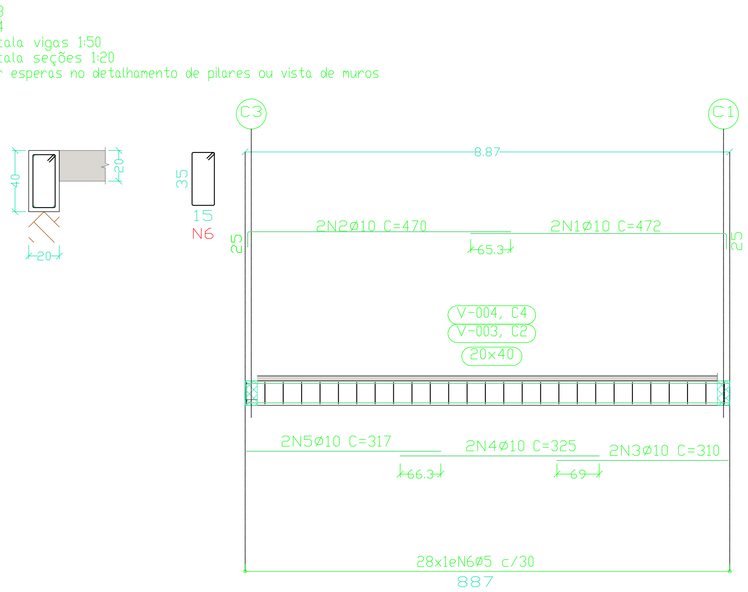
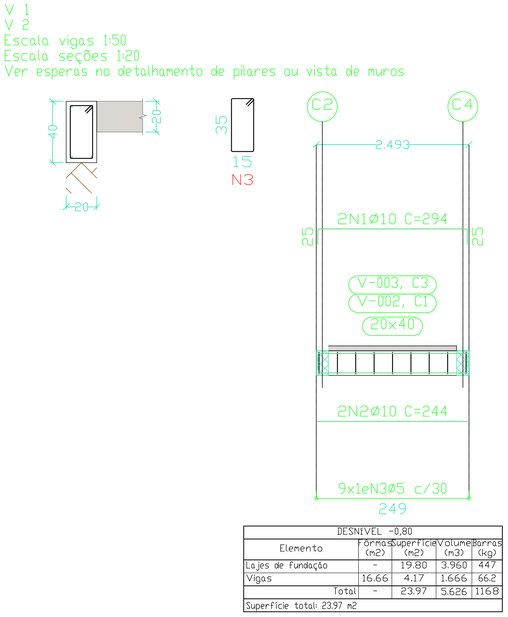


2 PLANTA DE FORMA - BASE FILTRO (DESNÍVEL -0,80)
ESC 1:50



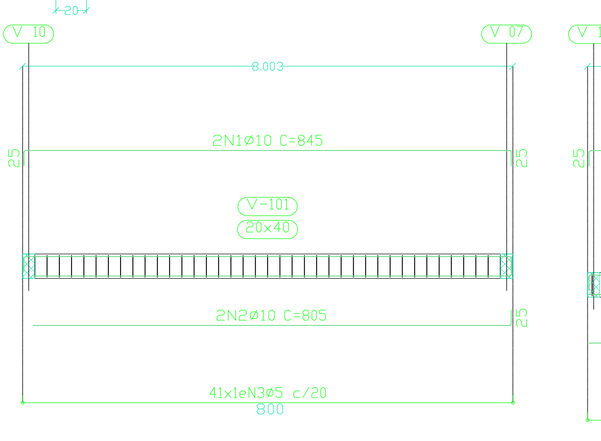


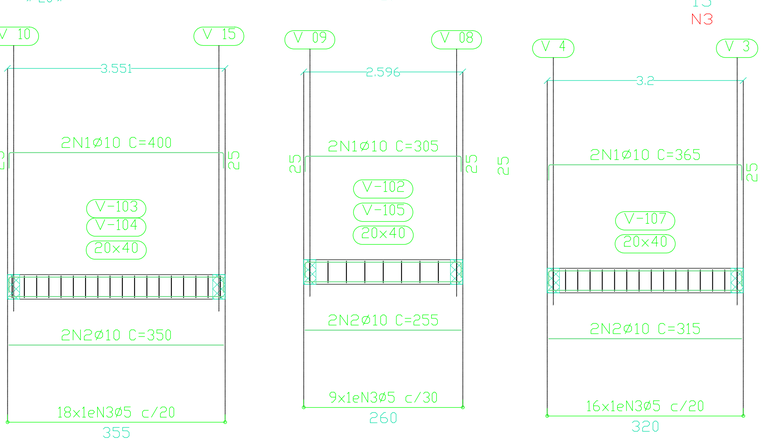
DESNIVEL -0,80				
Elemento	Formas (m2)	Superficie (m2)	Volume (m3)	Barras (kg)
Lajes de fundação	-	19.80	3.960	447
Vigas	16.66	4.17	1.666	662
Total	-	23.97	5.626	1168
Superfície total: 23.97 m2				

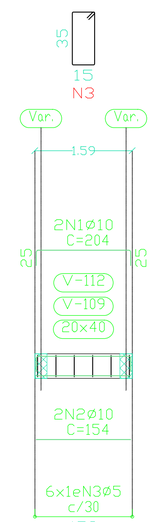
Elemento	Pos.	Diam.	Q.	Dob (cm)	Reta (cm)	Dob (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Formas	1	ø12.5	74	14	245	14	273	20202	194.5	
	2	ø12.5	24	14	245		259	6216	59.9	
	3	ø12.5	12		388		388	4656	44.8	
	4	ø12.5	12	14	182	18	214	2568	24.8	
	5	ø12.5	12	18	182	14	214	2568	24.8	
	6	ø12.5	12	18	459	18	495	5940	57.2	
							Total+10%:		446.6	
							ø12.5:		446.6	0.0
							Total:		446.6	0.0

Resumo Aço	Comp. total (m)	Peso+10% (kg)
CA-50 ø12.5	421.5	446.6

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1=V 2	1	ø10	2	10 244 10	294	588	3.6	
	2	ø10	2	10 244 10	244	488	3.0	
	3	ø5	9	5 15 5	108	972		1.5
						Total+10%:	7.3	1.7
						(x2):	14.6	3.4
V 3=V 4	1	ø10	2	10 447 10	472	944	5.9	
	2	ø10	2	10 445 10	470	940	5.8	
	3	ø10	2	10 310	310	620	3.8	
	4	ø10	2	10 325	325	650	4.0	
	5	ø10	2	10 317	317	634	3.9	
	6	ø5	28	5 15 5	108	3024		4.7
						Total+10%:	25.8	5.2
						(x2):	51.6	10.4

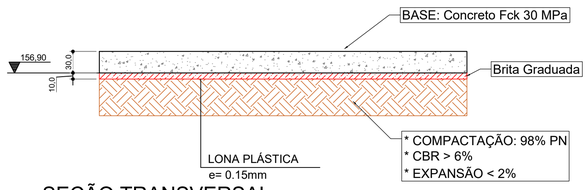






Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	ø10	2	10 835 10	885	1770	10.9	
	2	ø10	2	10 780 10	805	1610	9.9	
	3	ø5	41	5 15 5	108	4428		6.8
						Total+10%:	22.9	7.5
V 3=V 4	1	ø10	2	10 350 10	400	800	4.9	
	2	ø10	2	350	350	700	4.3	
	3	ø5	18	5 15 5	108	1944		3.1
						Total+10%:	10.1	3.4
						(x2):	20.2	6.8
V 2=V 5	1	ø10	2	10 255 10	305	610	3.8	
	2	ø10	2	255	255	510	3.1	
	3	ø5	9	5 15 5	108	972		1.5
						Total+10%:	7.6	1.7
						(x2):	15.2	3.4
V 7	1	ø10	2	10 315 10	365	730	4.5	
	2	ø10	2	315	315	630	3.9	
	3	ø5	16	5 15 5	108	1728		2.7
						Total+10%:	9.2	3.0
V 9=V 12	1	ø10	2	10 154 10	204	408	2.5	
	2	ø10	2	154	154	308	1.9	
	3	ø5	6	5 15 5	108	648		1.0
						Total+10%:	4.8	1.1
						(x2):	9.6	2.2
						ø5:	0.0	20.1
						ø10:	64.7	0.0
						Total:	64.7	20.1

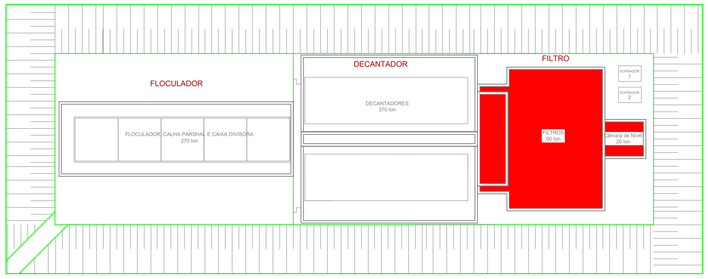
Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	ø10	80.76	65	65
CA-60	ø5	116.7	20	20
Total				85



3.2 SEÇÃO TRANSVERSAL
SEM ESCALA

CONCRETO USINADO BOMBEADO CRITÉRIOS ADOTADOS						
PAVIMENTO	ELEMENTO	COBRIMENTO	fck		SLUMP	A/C
		cm	MPa	kgf/cm²		
GERAL	BASE	2,5	30	300	10 ± 2 cm	0,5

OBSERVAÇÃO: UTILIZAR BRITA 0 E 1.



3.1 DET. VIGAS - BASE FILTROS (NÍVEL 152,24)
ESC 1:50

NOTAS

REV. Nº	DATA	DESCRIÇÃO
R00	23/07/21	Versão Inicial do Projeto

AUTOR DO PROJETO:
EXCELÊNCIA ENGENHARIA E MEIO AMBIENTE LTDA EPP
00.564.373/0001-95
Eng. Thaice L. P. Marques Neis
CREA: 1213568269

INTERESSADO:
DAE - DEPARTAMENTO DE ÁGUA E ESGOTO DE VÁRZEA GRANDE
CNPJ: 02.555.079/0001-42

EMPREENDIMENTO:
ETA-BOM SUCESSO

ENDEREÇO:
Rod MT 050, Jardim Botânico, Várzea Grande - MT
Latitude: 15°42'37.08"S// Longitude: 56° 8'12.10"O

ASSUNTO:
Estação de Tratamento de Água - ETA
Detalhamento de viga de bordo - Base Filtro - (Nível 152,24)

NOMENCLATURA:

FOLHA: 002 / 003

DATA: 23/07/2021

ESCALA: INDICADA