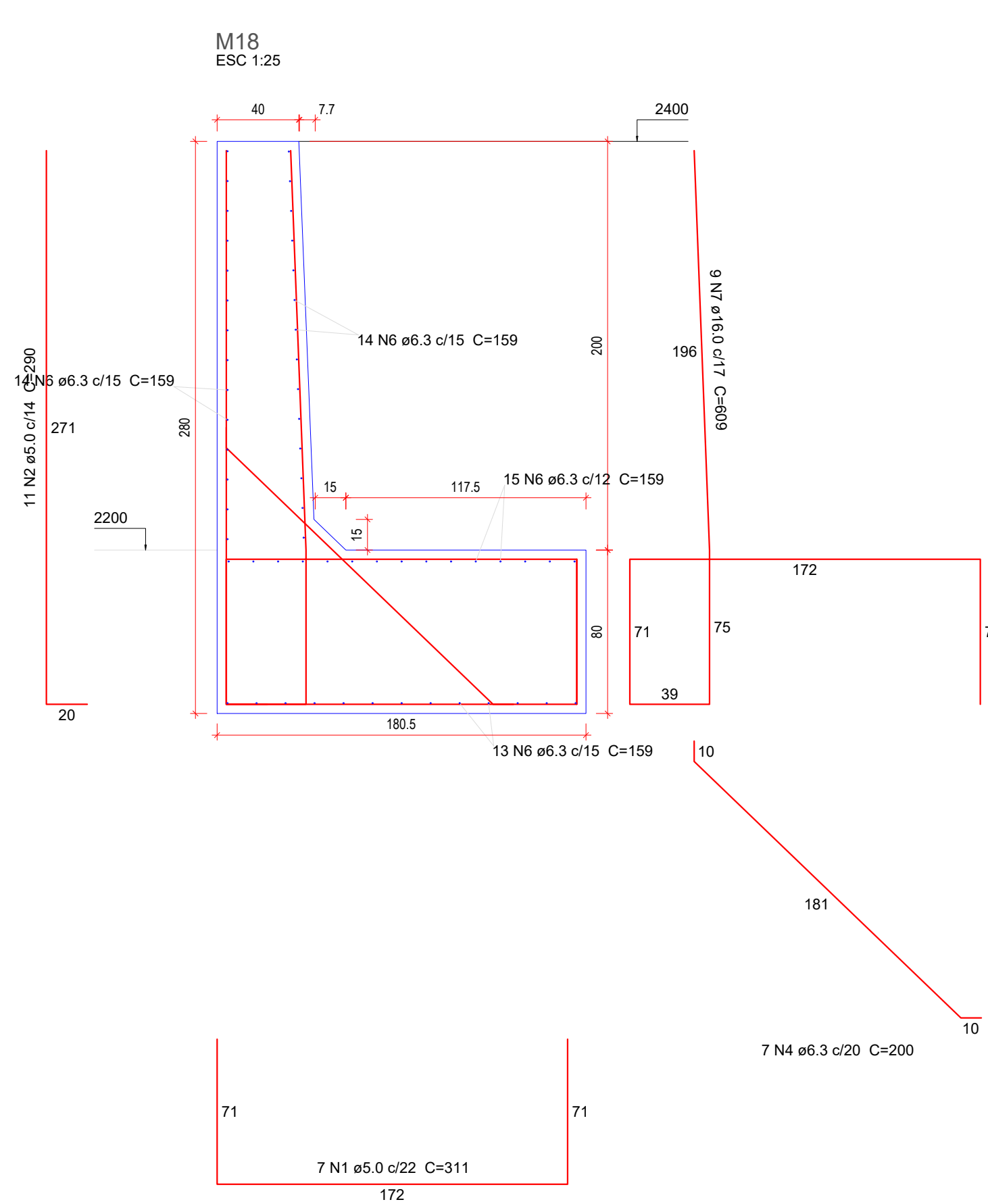
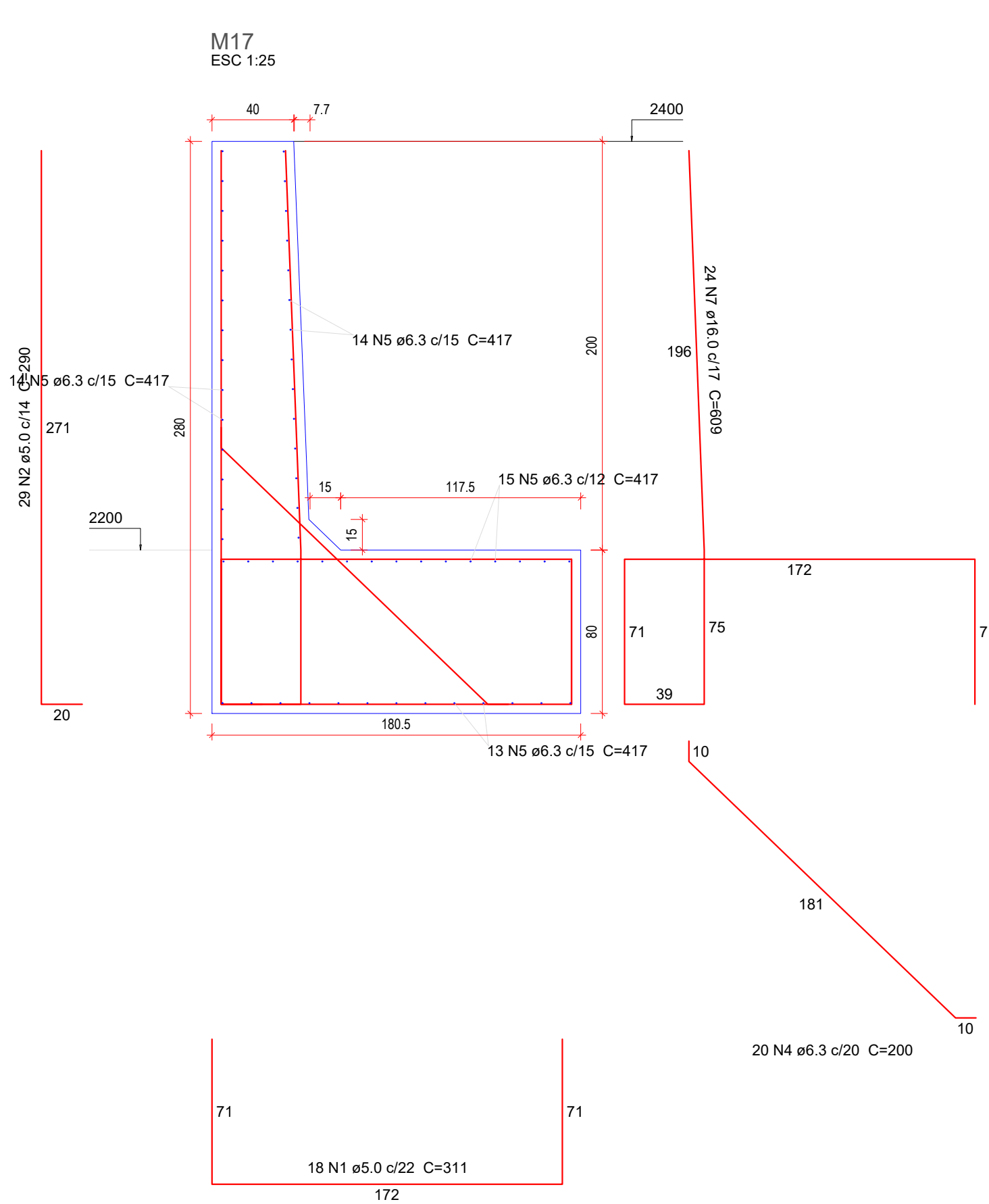
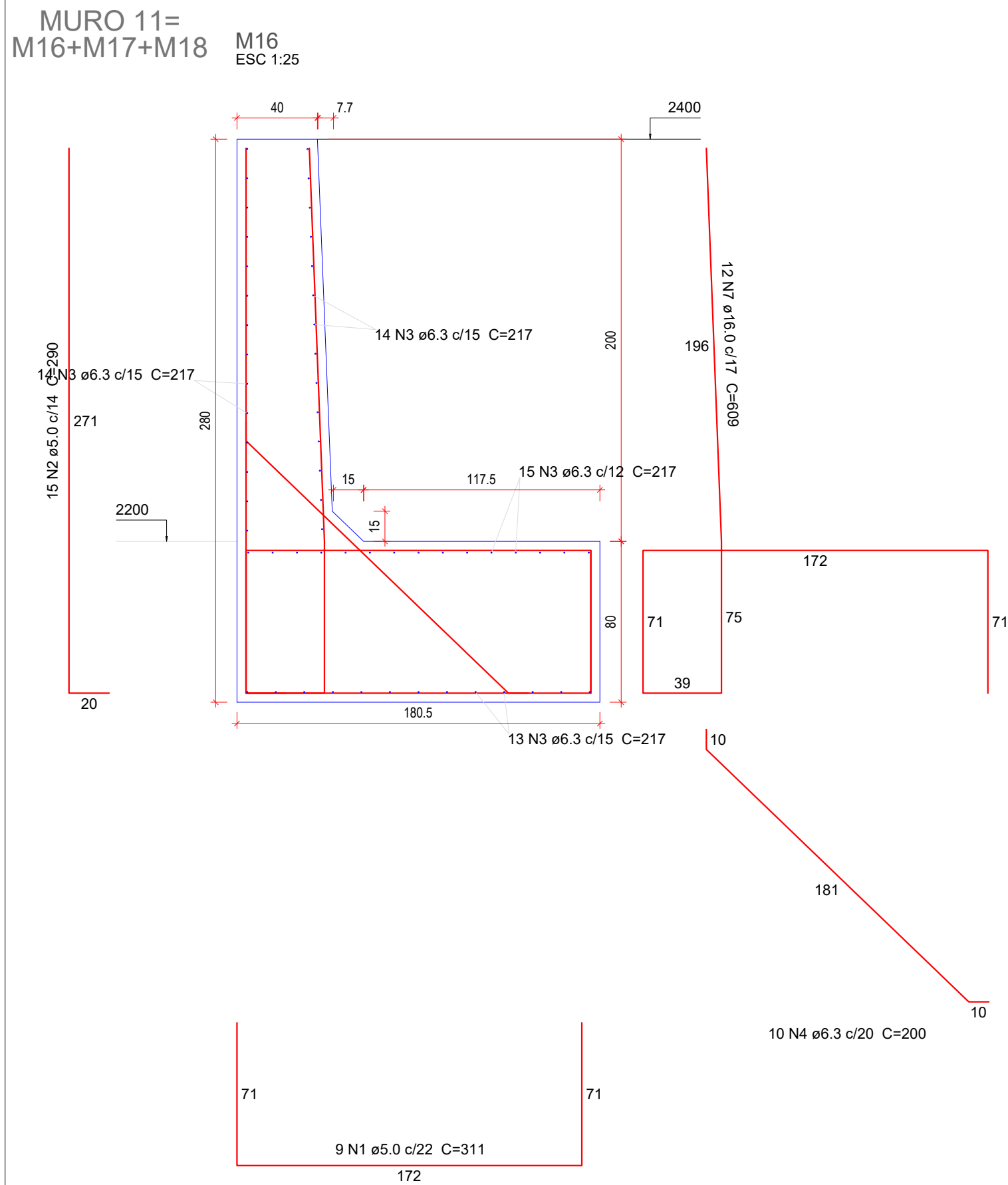


PROJETO CONTENÇÕES			
QUADRO DE REVISÕES		DATA	RESENHO
REVISÃO	DESCRIÇÃO	10.08.2023	NÚMERO
01	REVISÃO TÉCNICA		
APROVAÇÕES			
PROPRIETÁRIO		RESPONSÁVEL TÉCNICO	
MUNICÍPIO DE JOINVILLE 63.166.827/0001-10		FERNANDO STROTSCH STROTSCH&BASTIANI154518920 Assinado por força delegada por FERNANDO STROTSCH em 10/08/2023 Data: 2023/08/10 17:25:55 -03'00'	
		FERNANDO STROTSCH CREASC: 025222-0 EQUIPE TÉCNICA DA EMPRESA	
		 Município de Joinville	
FERNANDO STROTSCH Engenheiro Civil CREASC: 025222-0			
PROPRIETÁRIO		DATA	
MUNICÍPIO DE JOINVILLE		08.08.2023	
EMPREGAÇÃO		FOLHA	
C.E.I JARIVATUBA		04	
ENCOMENDADOR		PROJETO	
Rua José Ribeiro Soares Batista, nº 155		INDICAÇÃO	
Bairro: Jarivatuba, Joinville - SC		NÚMERO	
PROJETO: PROJETO CONTENÇÕES		PTR 01/04	
CONTEÚDO		PLANTA ESTACAS PLATÔ	
FERNANDO STROTSCH EMPREITEIRA   CREA: nº 082524-0   CNPJ: 04.488.731/0001-96			







Relação do aço

M16

M17

M18

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	34	311	10574
	2	5.0	55	290	15950
CA50	3	6.3	56	217	12152
	4	6.3	37	200	7400
	5	6.3	56	417	23352
	6	6.3	56	159	8904
	7	16.0	45	609	27405

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	518.1	48	139.5
	16.0	274.1	26	475.8
CA60	5.0	265.3	25	45

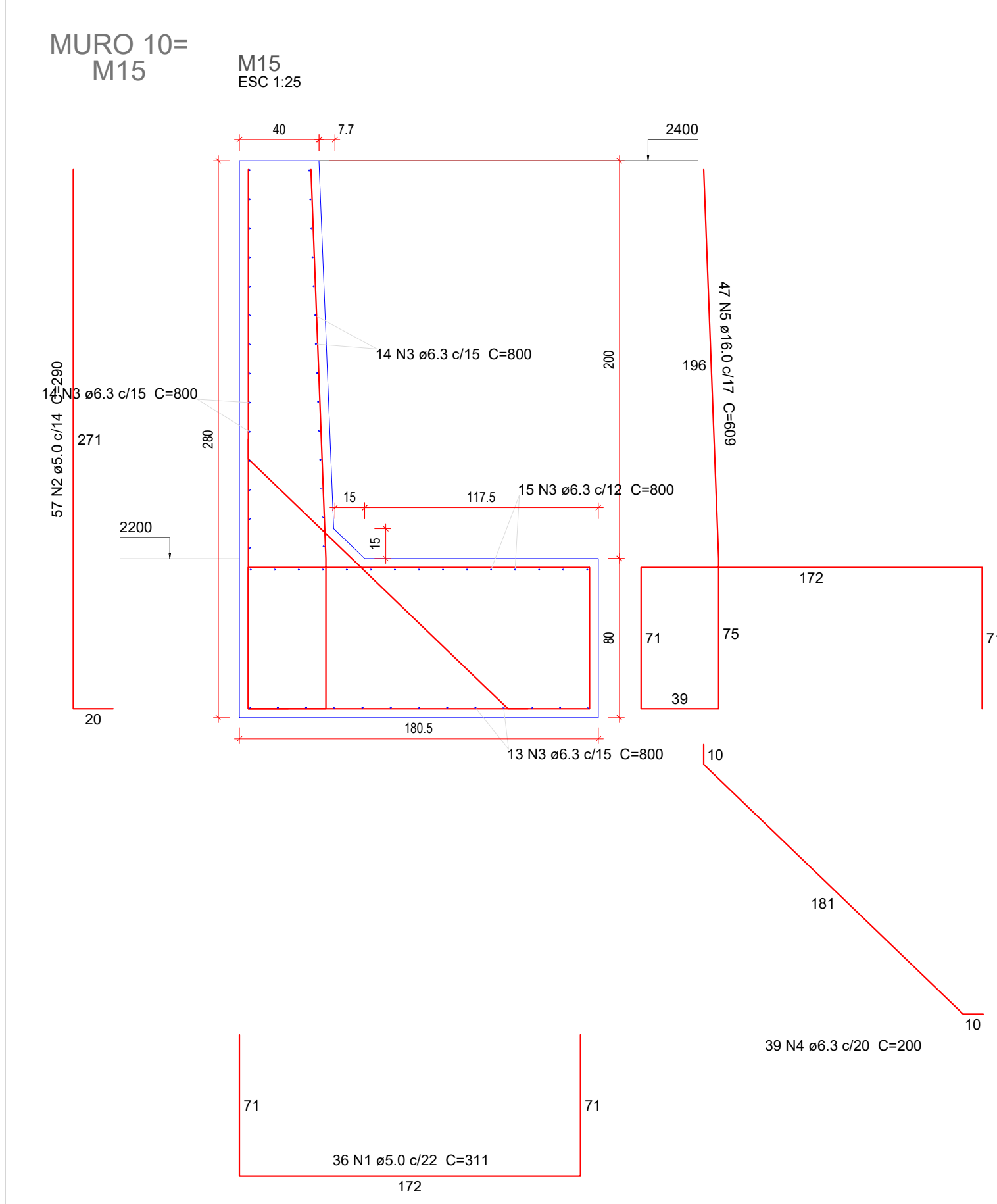
PESO TOTAL (kg)

CA50 615.3

CA60 45

Volume de concreto (C-35) = 20.78 m³

Área de forma = 76.61 m²



M15

Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	36	311	11196
	2	5.0	57	290	16530
CA50	3	6.3	56	800	44800
	4	6.3	39	200	7800
	5	16.0	47	609	28623

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	526	49	141.6
	16.0	286.3	27	496.9
CA60	5.0	277.3	26	47

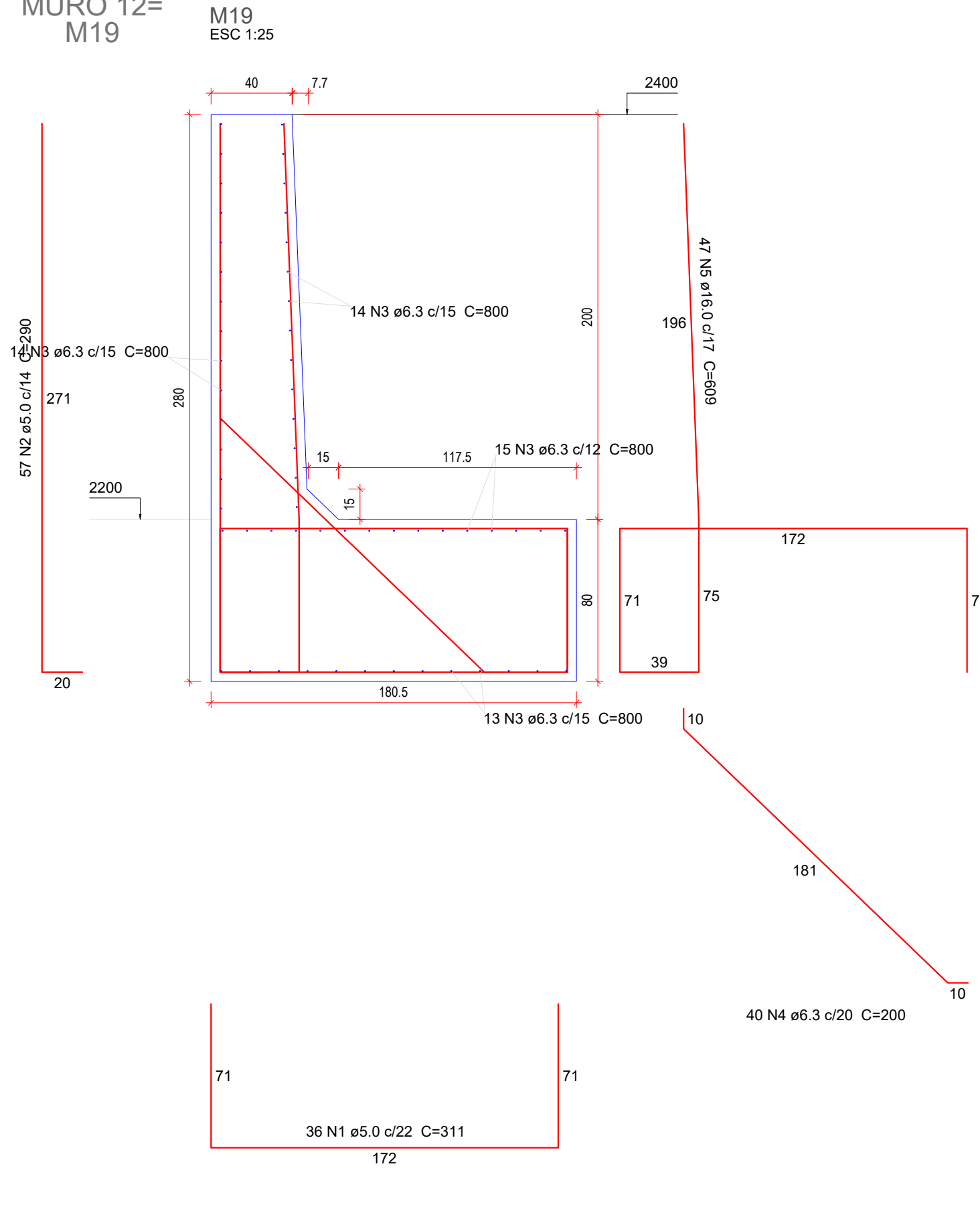
PESO TOTAL (kg)

CA50 638.5

CA60 47

Volume de concreto (C-35) = 18.68 m³

Área de forma = 72.38 m²



Relação do aço

M19

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	36	311	11196
	2	5.0	57	290	16530
CA50	3	6.3	56	800	44800
	4	6.3	40	200	8000
	5	16.0	47	609	28623

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	528	49	142.1
	16.0	286.3	27	496.9
CA60	5.0	277.3	26	47

PESO TOTAL (kg)

CA50	639.1
CA60	47

Volume de concreto (C-35) = 18.68 m³

Área de forma = 72.38 m²

PROJETO CONTENÇÕES

QUADRO DE REVISÕES

REVISÃO	DESCRIÇÃO	DATA	DESENHO
R01	EMISSIONAL	15.06.2023	RAPHAEL

PROPRIETÁRIO: MUNICÍPIO DE JOINVILLE

RESPONSÁVEL TÉCNICO: FERNANDO STROISCH

Assinado de forma digital por FERNANDO STROISCH:84134518920  
Dados: 2023.09.11 07:54:22 -03'00'

CREA/SC 062522-0

FERCON

Município de Joinville

PROPRIETÁRIO: MUNICÍPIO DE JOINVILLE

EDIFICAÇÃO: C.E.I JARIVATUBA

ENDEREÇO: Rua José Ribeiro Soares Batista, nº 155  
Bairro: Jarivatuba, Joinville - SC

PROJETO: PROJETO CONTENÇÕES

CONTEÚDO: DETALHAMENTOS

ARQUIVO: PTR03

DATA: 06.09.2023

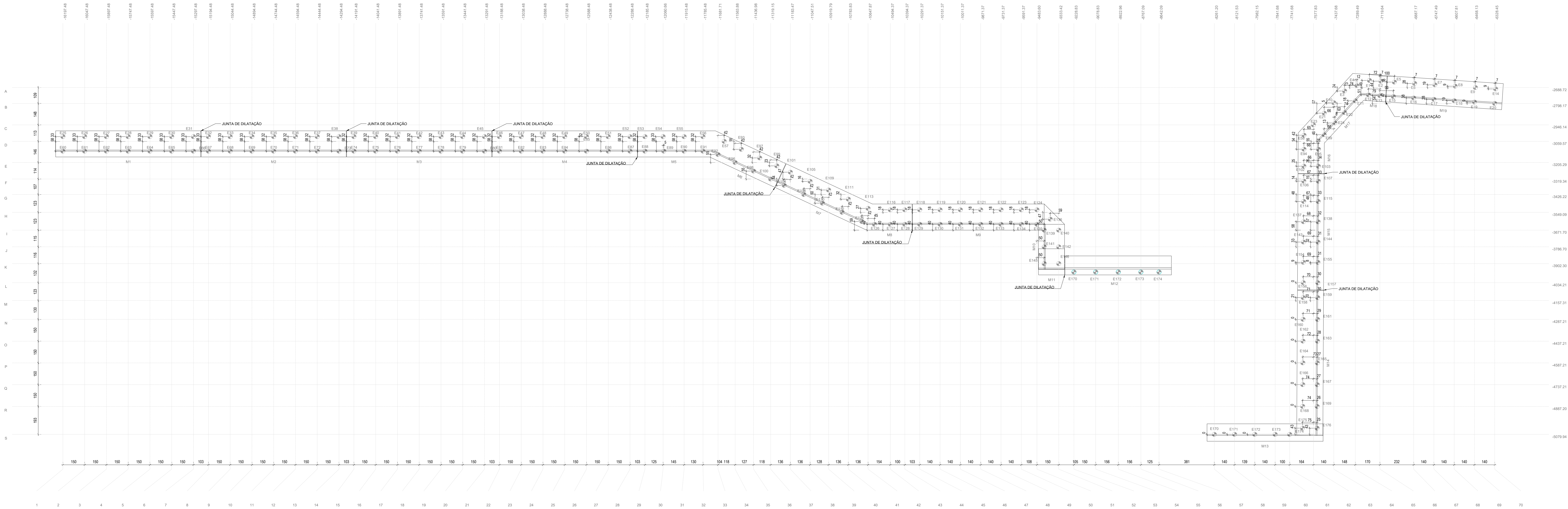
ETAPA: PROJETO

ESCALA: INDICADA

INDICADA: PTR 03/04

FERNANDO STROISCH EMPREITEIRA | CREA nº 062522-0 | CNPJ nº 04.666.721/0001-96  
Rua Sete de Setembro, 644 - BOX 13 - Centro - Blumenau | CEP 89010-200 | Fone: (47) 9511-8011 | e-mail: engenheiro\_fs@gmail.com

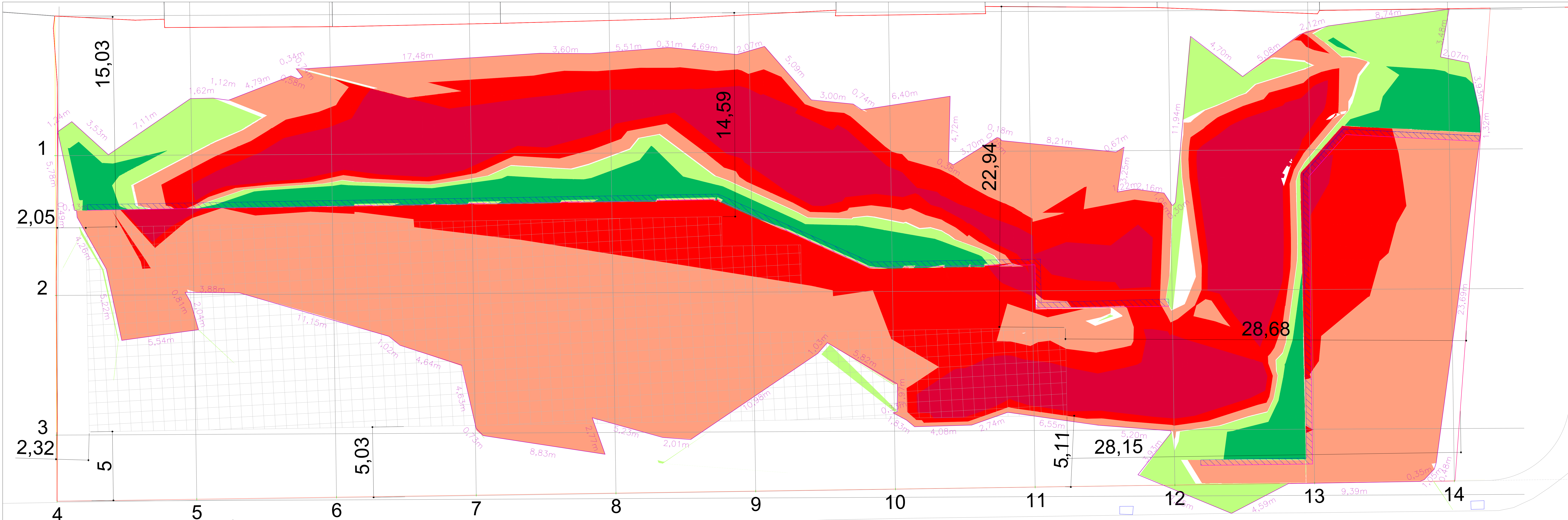
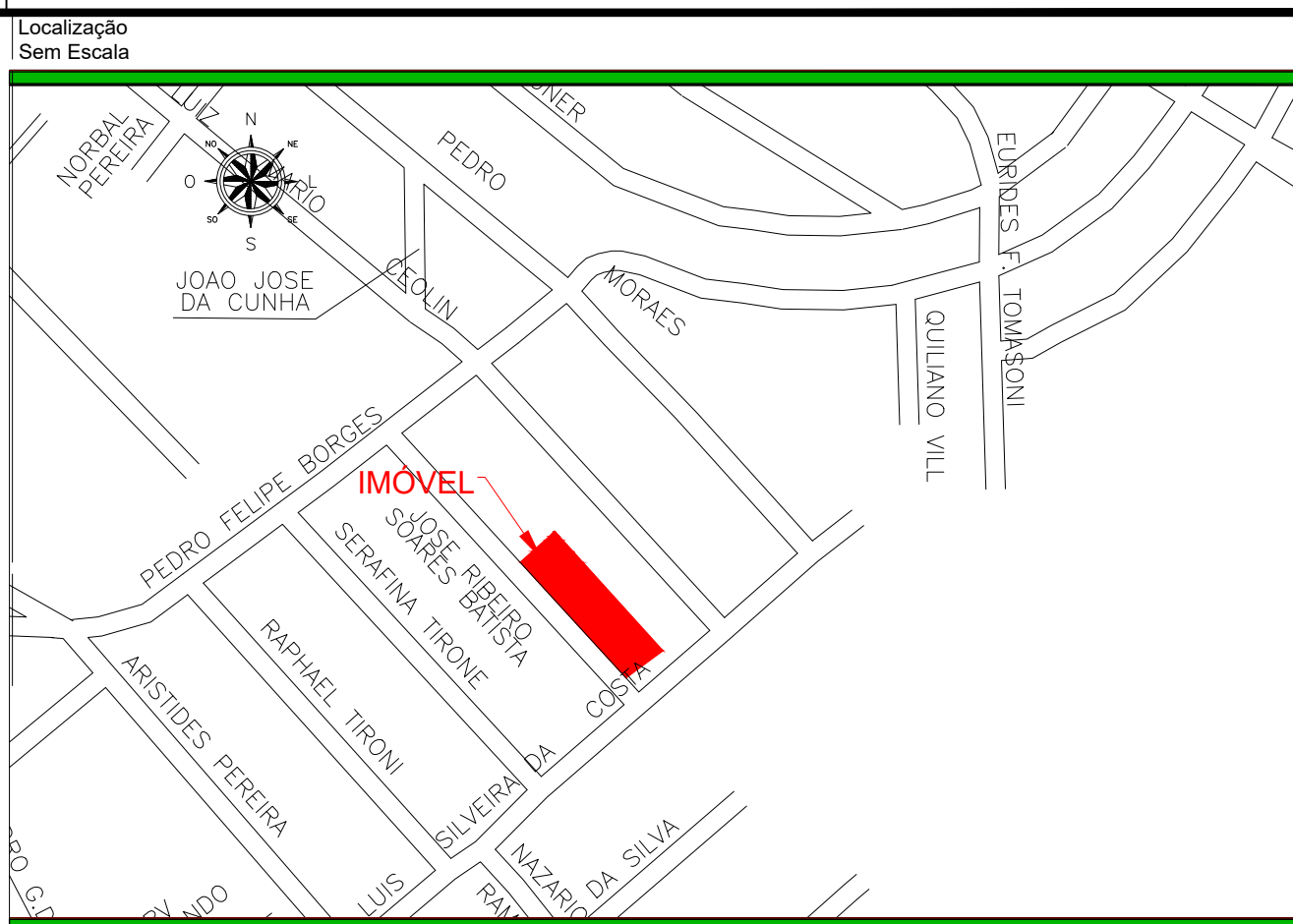




Planta de locação das estações  
escala 1:100

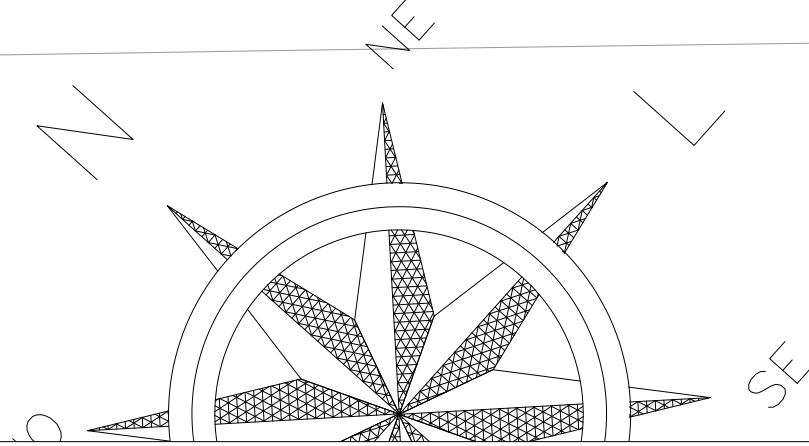
Locação no eixo X		Locação no eixo Y	
Coordenadas (m)	Nome	Coordenadas (m)	Nome
-16197.48	E25, E60	-3839.29	E1
-16047.48	E26, E61	-3844.63	E2
-16097.48	E27, E62	-3850.91	E3
-16747.48	E28, E63	-3860.38	E6
-16597.48	E29, E64	-3869.82	E7
-16447.48	E30, E65	-3879.27	E8
-16397.48	E31, E66	-3889.72	E9
-16347.48	E32, E67	-3899.17	E12
-16297.48	E33, E68	-3908.62	E13
-16247.48	E34, E69	-3918.07	E14
-16197.48	E35, E70	-3927.52	E15
-16147.48	E36, E71	-3936.97	E16
-16097.48	E37, E72	-3946.42	E17
-16047.48	E38, E73	-3955.87	E18
-15997.48	E39, E74	-3965.32	E19
-15947.48	E40, E75	-3974.77	E20
-15897.48	E41, E76	-3984.22	E21
-15847.48	E42, E77	-3993.67	E22
-15797.48	E43, E78	-4003.12	E23
-15747.48	E44, E79	-4012.57	E24
-15697.48	E45, E80	-4022.02	E25
-15647.48	E46, E81	-4031.47	E26
-15597.48	E47, E82	-4040.92	E27
-15547.48	E48, E83	-4050.37	E28
-15497.48	E49, E84	-4059.82	E29
-15447.48	E50, E85	-4069.27	E30
-15397.48	E51, E86	-4078.72	E31
-15347.48	E52, E87	-4088.17	E32
-15297.48	E53, E88	-4097.62	E33
-15247.48	E54	-4107.07	E34
-15197.48	E55	-4116.52	E35
-15147.48	E56	-4125.97	E36
-15097.48	E57	-4135.42	E37
-15047.48	E58	-4144.87	E38
-14997.48	E59	-4154.32	E39
-14947.48	E60	-4163.77	E40
-14897.48	E61	-4173.22	E41
-14847.48	E62	-4182.67	E42
-14797.48	E63	-4192.12	E43
-14747.48	E64	-4201.57	E44
-14697.48	E65	-4211.02	E45
-14647.48	E66	-4220.47	E46
-14597.48	E67	-4229.92	E47
-14547.48	E68	-4239.37	E48
-14497.48	E69	-4248.82	E49
-14447.48	E70	-4258.27	E50
-14397.48	E71	-4267.72	E51
-14347.48	E72	-4277.17	E52
-14297.48	E73	-4286.62	E53
-14247.48	E74	-4296.07	E54
-14197.48	E75	-4305.52	E55
-14147.48	E76	-4314.97	E56
-14097.48	E77	-4324.42	E57
-14047.48	E78	-4333.87	E58
-13997.48	E79	-4343.32	E59
-13947.48	E80	-4352.77	E60
-13897.48	E81	-4362.22	E61
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-13647.48	E86	-4409.47	E66
-13597.48	E87	-4418.92	E67
-13547.48	E88	-4428.37	E68
-13497.48	E89	-4437.82	E69
-13447.48	E90	-4447.27	E70
-13397.48	E91	-4456.72	E71
-13347.48	E92	-4466.17	E72
-13297.48	E93	-4475.62	E73
-13247.48	E94	-4485.07	E74
-13197.48	E95	-4494.52	E75
-13147.48	E96	-4503.97	E76
-13097.48	E97	-4513.42	E77
-13047.48	E98	-4522.87	E78
-12997.48	E99	-4532.32	E79
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-12897.48	E101	-4551.22	E81
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-12697.48	E105	-4589.02	E85
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-12297.48	E113	-4664.62	E93
-12247.48	E114	-4674.07	E94
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-9797.48	E163	-5137.12	E143
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-9347.48	E172	-5222.17	E152
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-8997.48	E179	-5288.32	E159
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-7297.48	E213	-5609.62	E193
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-3297.48	E293	-6365.62	E273
-3247.48	E294	-6375.07	E274
-3197.48	E295	-6384.52	E275
-3147.48	E296	-6393.97	E276
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RUA JOSÉ RIBEIRO SOARES BATISTA

TERRAPLANAGEM  
ESC. 1:100

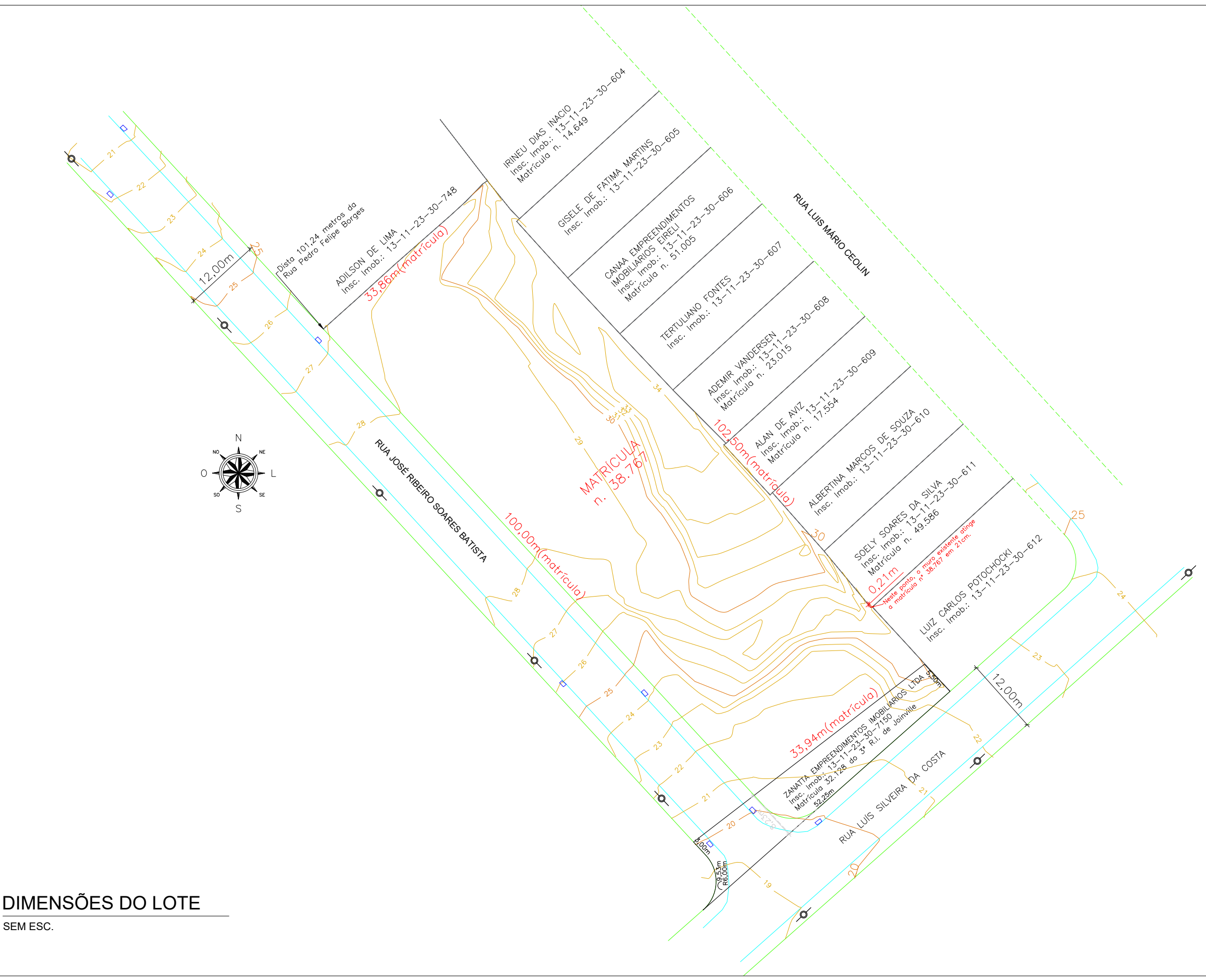


VOLUME TOTAL BASE MURO + PLATO					
SEÇÃO	F. CORTE	F. ATERRO	Volum. Corte Acum. (m³)	Volum. Aterro Acum. (m³)	Volume Líquido (m³)
BASE	1.0	1.0	216,36	21,64	194,72
PLATO	1.0	1.0	1148,52	111,15	1037,37
TOTAL			1364,88	132,79	1232,09 (corte)

DESNÍVEL GEOMÉTRICO MÁXIMO ÁREA DE INTERVENÇÃO	4,38M
ÁREA DE INTERVENÇÃO :	2259,63 M²

- CONVENÇÕES:
- Projeção da Rua
  - PERFIS DO TERRENO
  - Poste
  - LIMITE LOTE
  - ÁREA A CONSTRUIR
  - MURO DE ARRIMO
  - Boca de Lobo

- LEGENDA TERRAPLANAGEM
- CORTE: -2,729m ~ -1,000m
  - CORTE: -1,000m ~ -0,500m
  - CORTE: -0,500m ~ -0,040m
  - TERRENO NATURAL: -0,040m ~ +0,000m
  - ATERRO: +0,000m ~ +0,500m
  - ATERRO: +0,500m ~ +1,648m



DIMENSÕES DO LOTE  
SEM ESC.

## PROJETO TERRAPLANAGEM

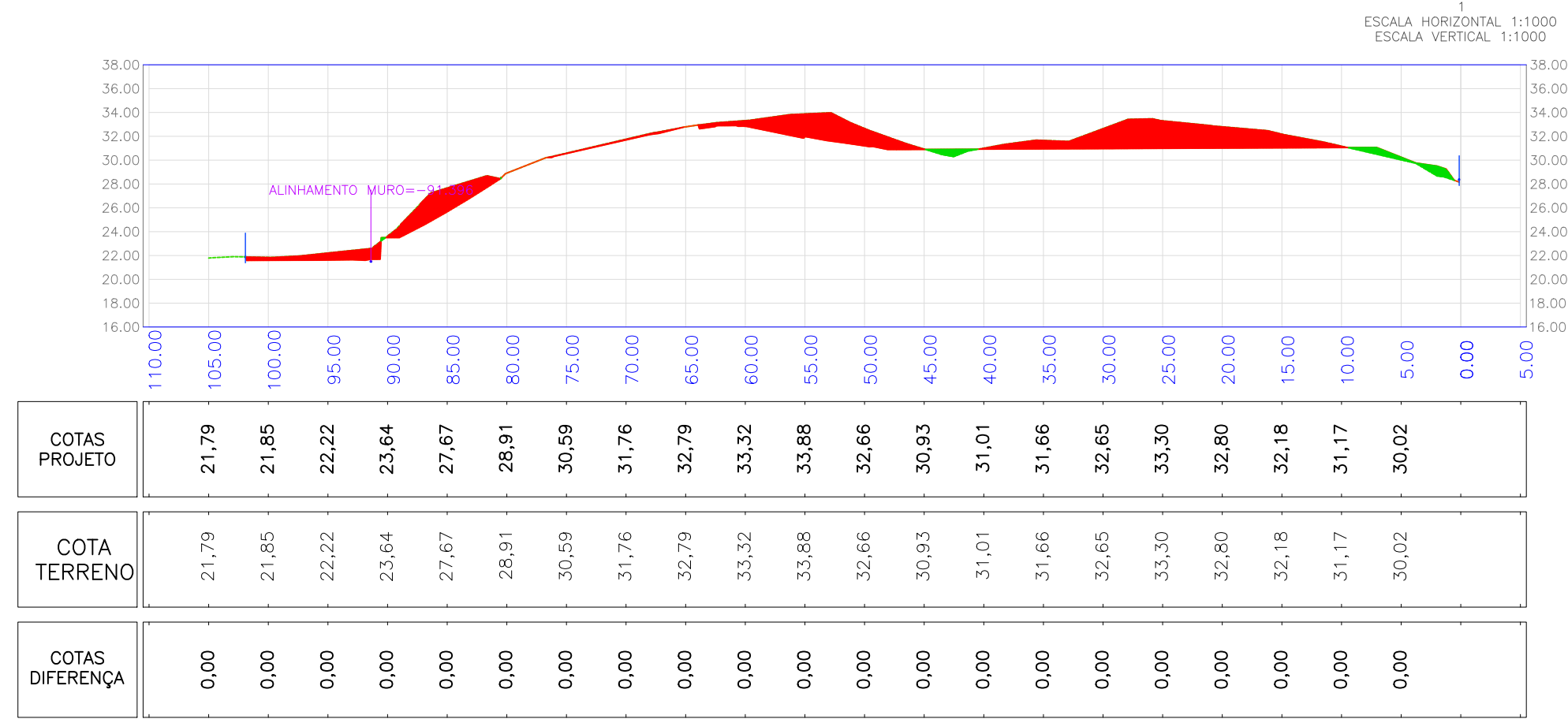
QUADRO DE REVISÕES	REVISÃO	DESCRIÇÃO	DATA	REVISÃO
01	01	REVISÃO TÉCNICA	10.08.2023	01

## APROVAÇÕES

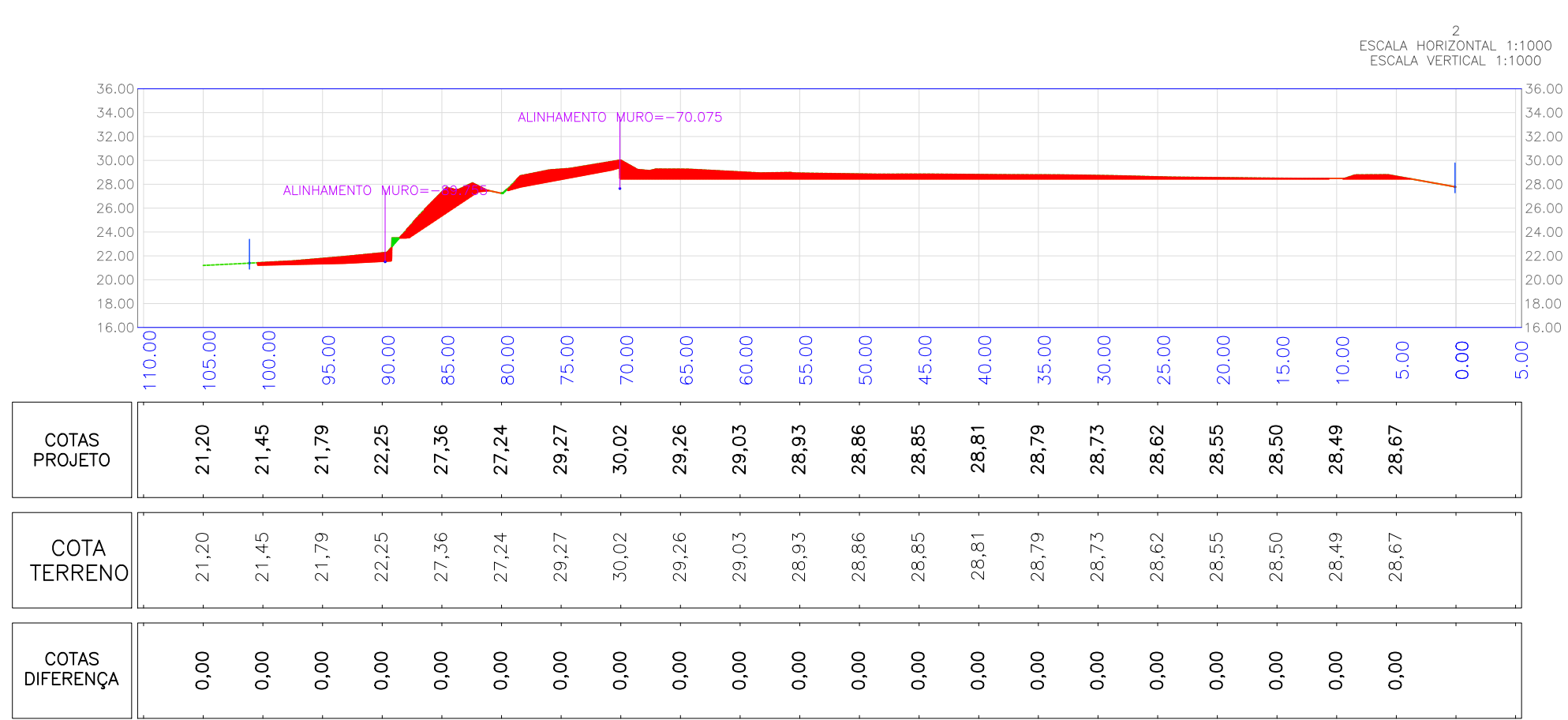
PROPRIETÁRIO	RESPONSÁVEL TÉCNICO
MUNICÍPIO DE JOINVILLE	FERNANDO STROTSCH
	CREASC 02522-0
	EQUIPE TÉCNICA DA EMPRESA
	FERNANDO STROTSCH
	CREASC 02522-0

PROPRIETÁRIO	MUNICÍPIO DE JOINVILLE
EDIFICAÇÃO	C.E.I. JARIVATUBA
ENDEREÇO	Rua José Ribeiro Soares Batista, nº 155
	Bairro: Jarivatuba, Joinville - SC
PROJETO	PROJETO TERRAPLANAGEM
CONTEÚDO	PLANTA ESTACAS PLATO
ARQUIVO	PROJETO
DATA	06.08.2023
ETAPA	PROJETO
INDICAÇÃO	PTR 01/02

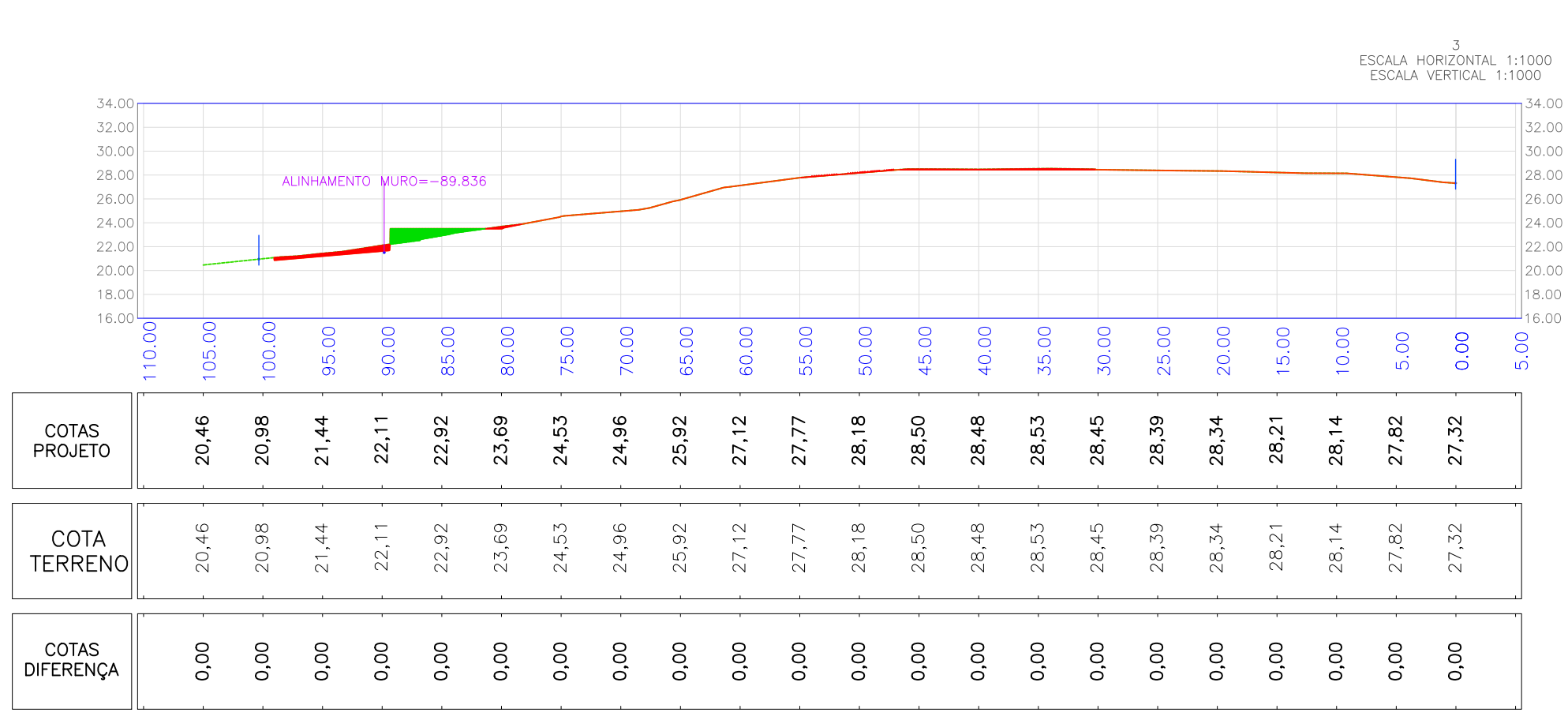




COTAS PROJETO	21.79	21.85	21.85	22.22	23.64	27.67	28.91	30.59	31.76	32.79	33.32	33.88	32.66	30.93	31.01	31.66	32.65	33.30	32.80	32.60	30.02
COTA TERRENO	21.79	21.85	21.85	22.22	23.64	27.67	28.91	30.59	31.76	32.79	33.32	33.88	32.66	30.93	31.01	31.66	32.65	33.30	32.80	32.60	30.02
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



COTAS PROJETO	21.20	21.45	21.79	22.25	27.26	27.24	29.27	30.02	29.26	29.03	28.83	28.86	28.85	28.81	28.79	28.73	28.70	28.55	28.50	28.49	28.67
COTA TERRENO	21.20	21.45	21.79	22.25	27.26	27.24	29.27	30.02	29.26	29.03	28.83	28.86	28.85	28.81	28.79	28.73	28.70	28.55	28.50	28.49	28.67
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



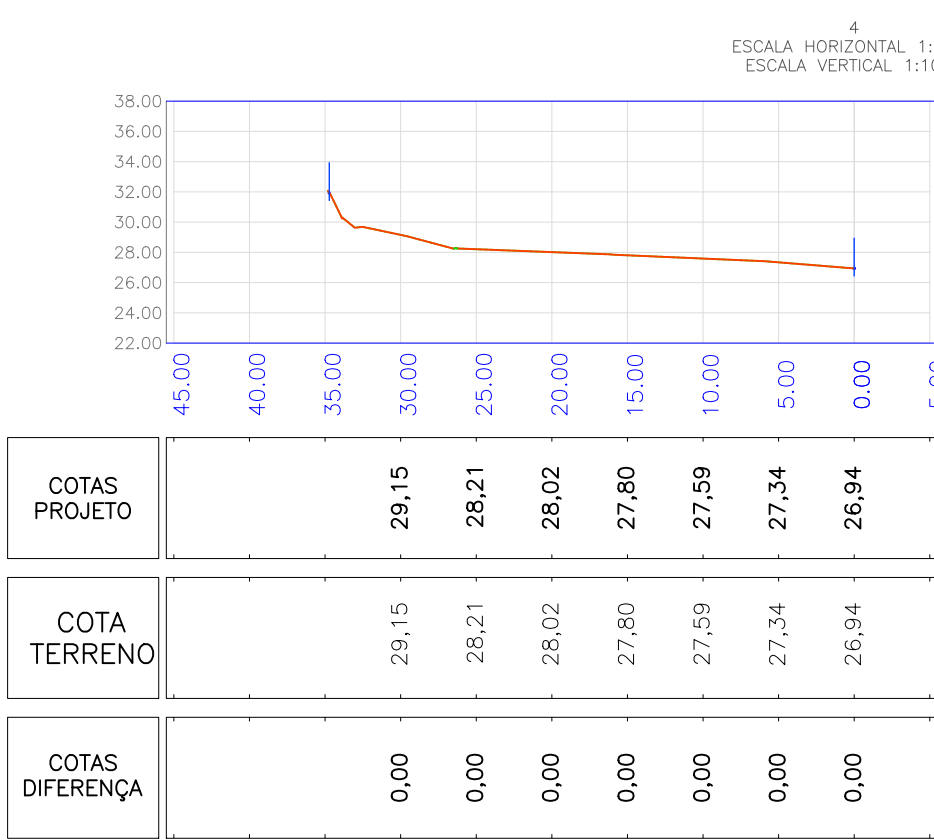
COTAS PROJETO	20.46	20.98	21.44	22.11	22.92	23.69	24.53	24.96	25.92	27.12	27.77	28.18	28.50	28.53	28.45	28.39	28.34	28.21	28.14	27.82	27.32
COTA TERRENO	20.46	20.98	21.44	22.11	22.92	23.69	24.53	24.96	25.92	27.12	27.77	28.18	28.50	28.53	28.45	28.39	28.34	28.21	28.14	27.82	27.32
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## LEGENDA

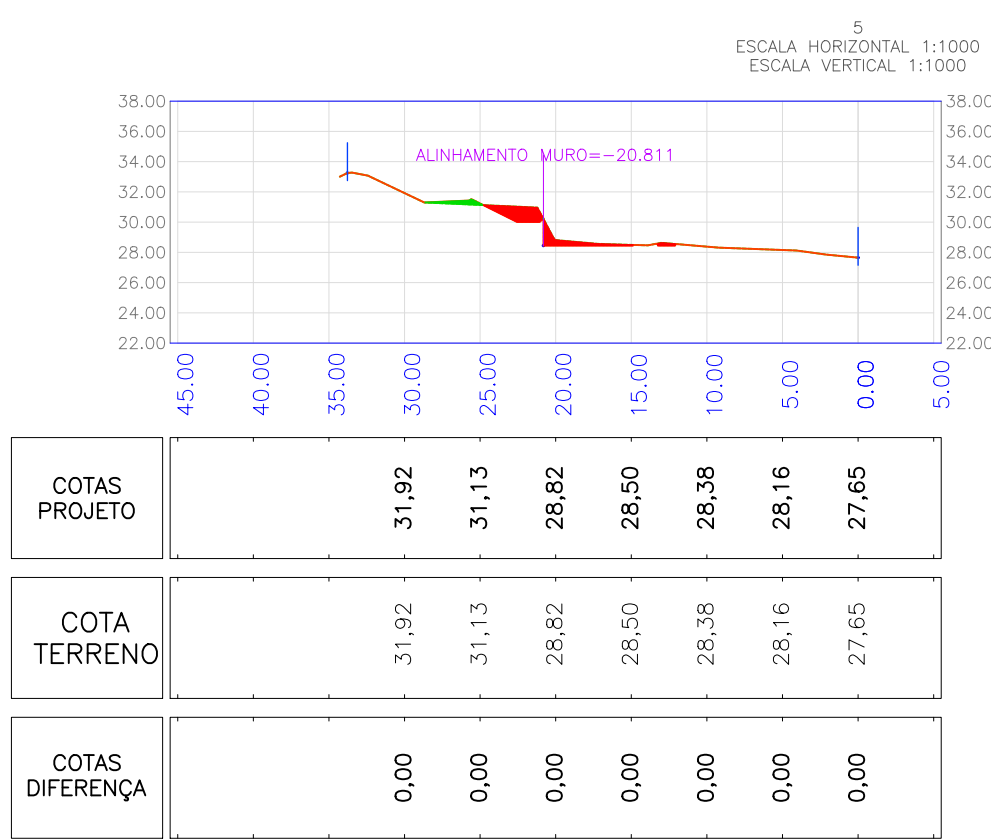
1	SUPERFÍCIE NATURAL
2	SUPERFÍCIE PROJETADA
3	MURO
4	LIMITE TERRENO
5	CORTE
6	ATERRO

### NOTA 1

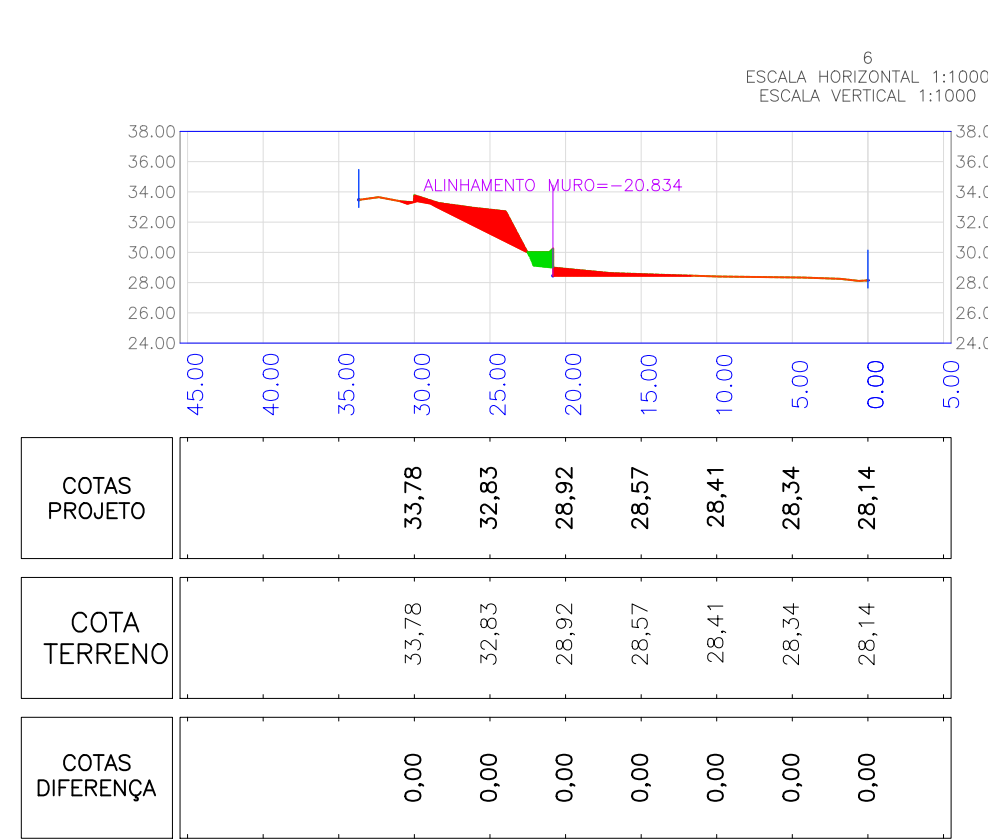
Conforme o art. 11 da IN 007/2021, os taludes com desnível inferior ou igual a 3 metros possuem inclinação máxima de 1,00 m/m (1:1 V:H).



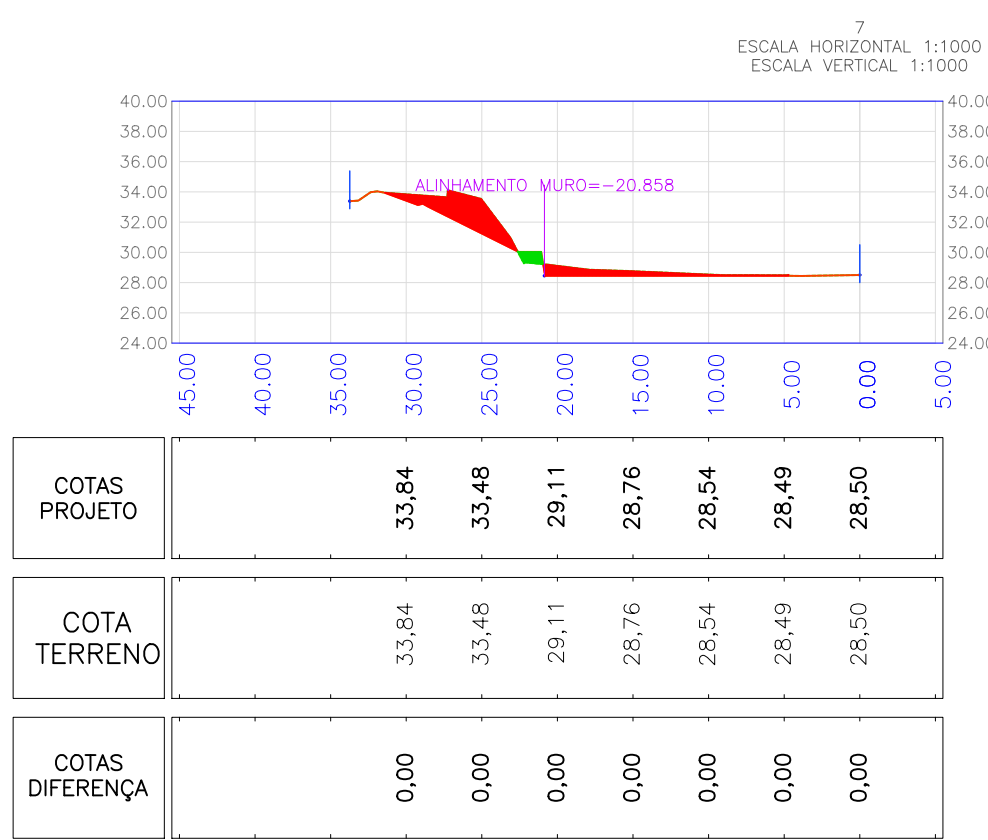
COTAS PROJETO	29.15	28.21	28.02	27.80	27.59	27.34	26.94
COTA TERRENO	29.15	28.21	28.02	27.80	27.59	27.34	26.94
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



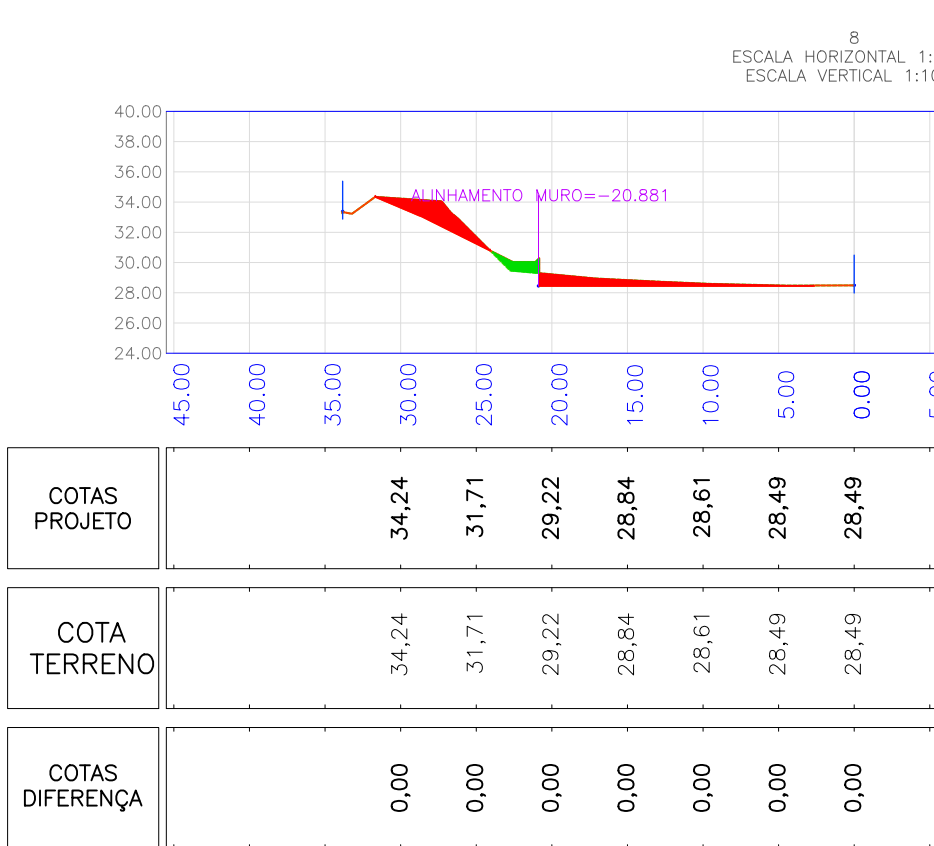
COTAS PROJETO	31.92	31.13	28.82	28.50	28.38	28.16	27.65
COTA TERRENO	31.92	31.13	28.82	28.50	28.38	28.16	27.65
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



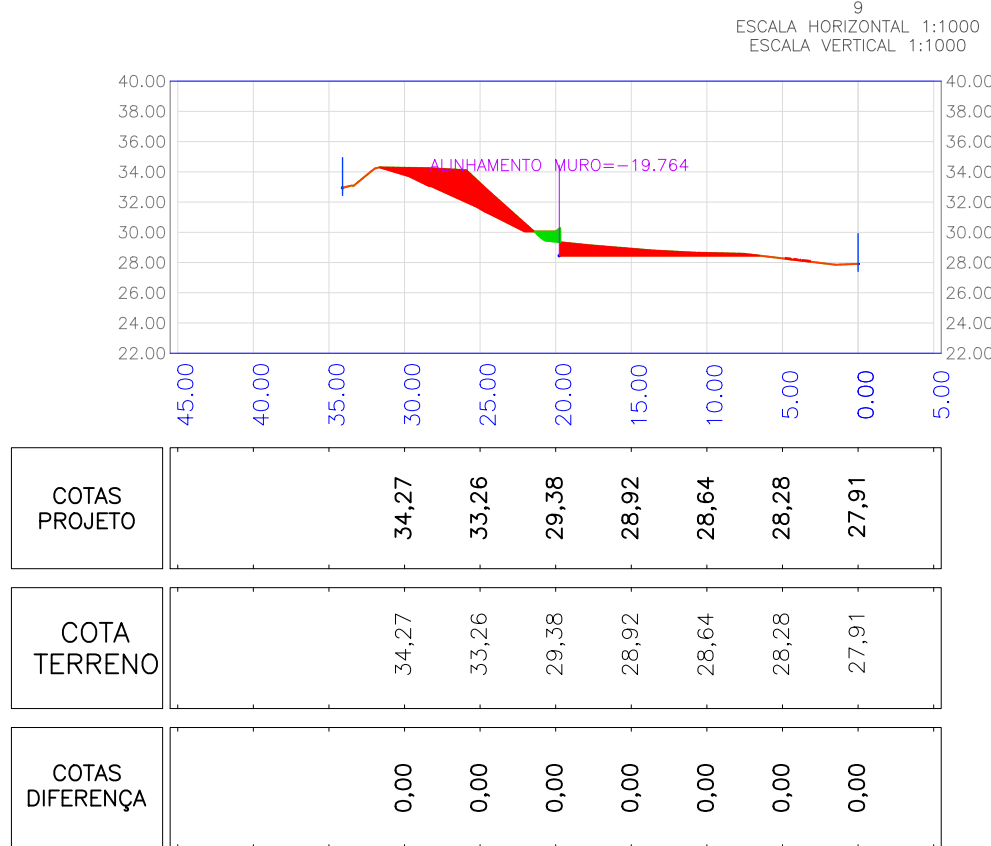
COTAS PROJETO	33.78	32.83	28.92	28.57	28.41	28.34	28.14
COTA TERRENO	33.78	32.83	28.92	28.57	28.41	28.34	28.14
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



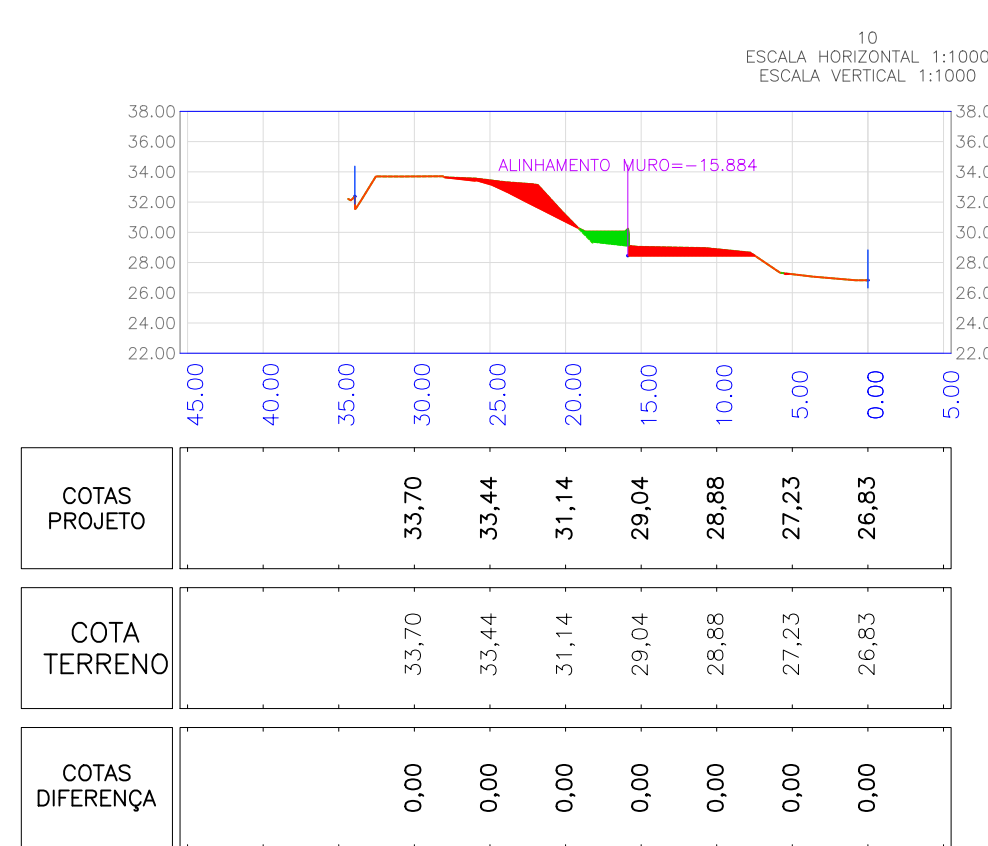
COTAS PROJETO	33.84	33.48	29.11	28.76	28.54	28.49	28.50
COTA TERRENO	33.84	33.48	29.11	28.76	28.54	28.49	28.50
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



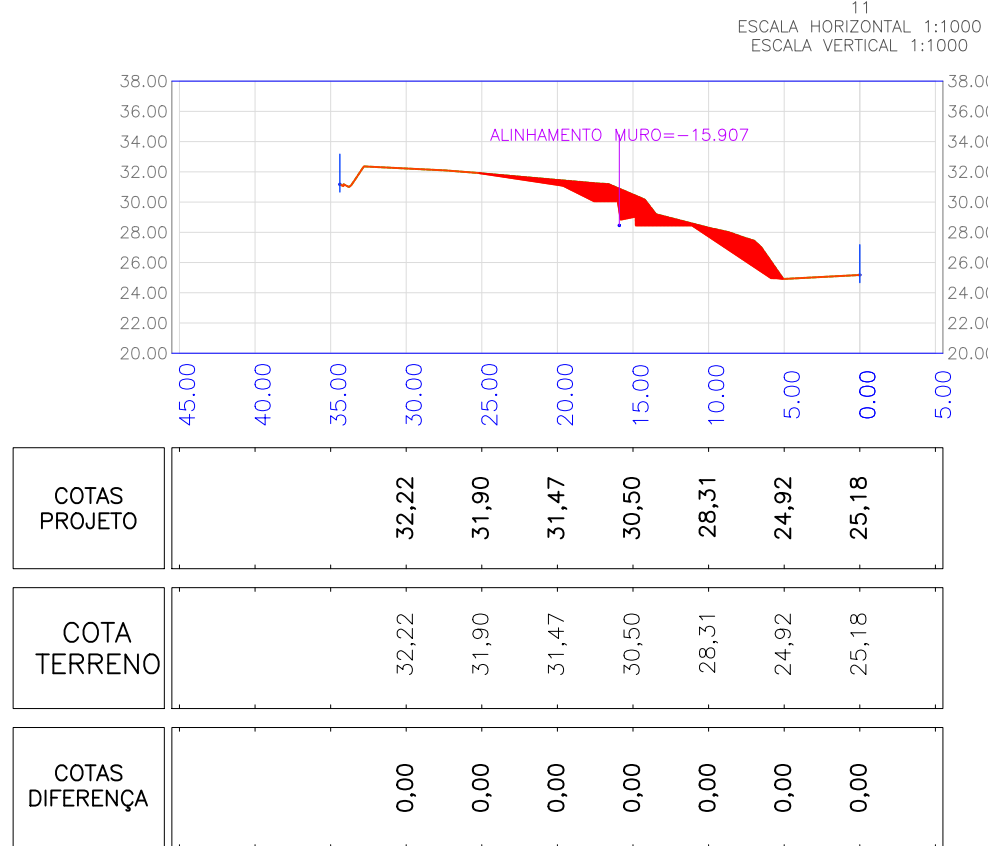
COTAS PROJETO	34.24	31.71	29.22	28.84	28.61	28.49	28.49
COTA TERRENO	34.24	31.71	29.22	28.84	28.61	28.49	28.49
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



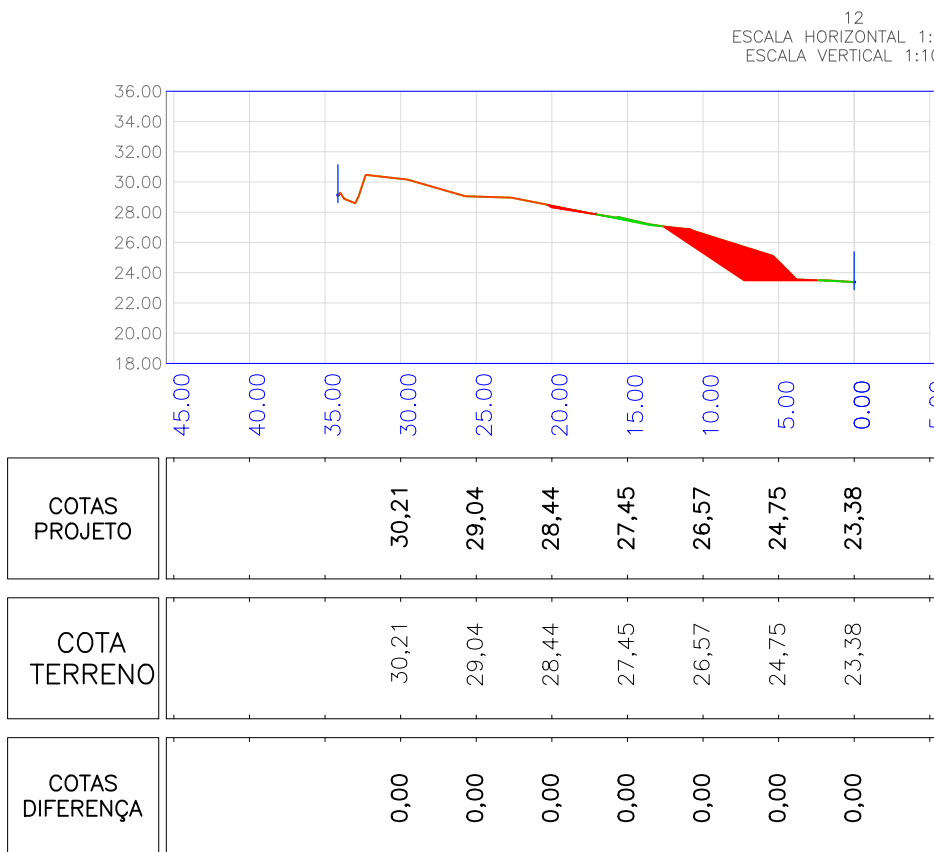
COTAS PROJETO	34.27	33.26	29.38	28.92	28.64	28.28	27.91
COTA TERRENO	34.27	33.26	29.38	28.92	28.64	28.28	27.91
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



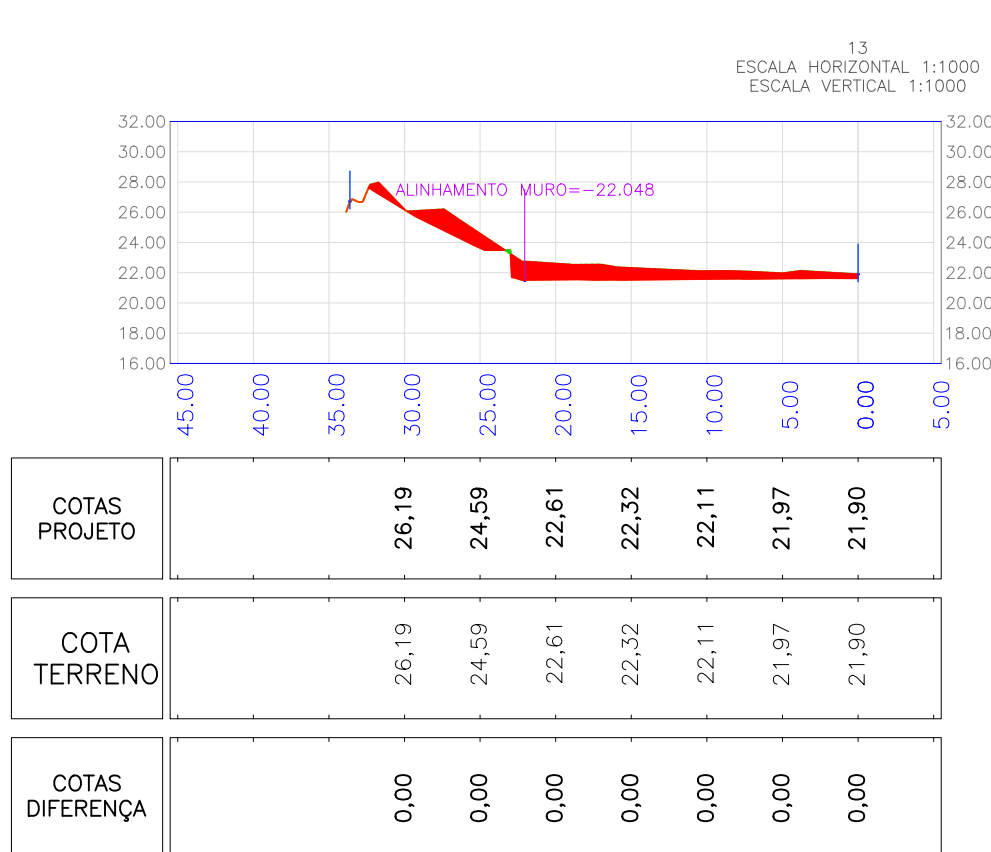
COTAS PROJETO	33.70	33.44	31.14	29.04	28.68	27.23	26.83
COTA TERRENO	33.70	33.44	31.14	29.04	28.68	27.23	26.83
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



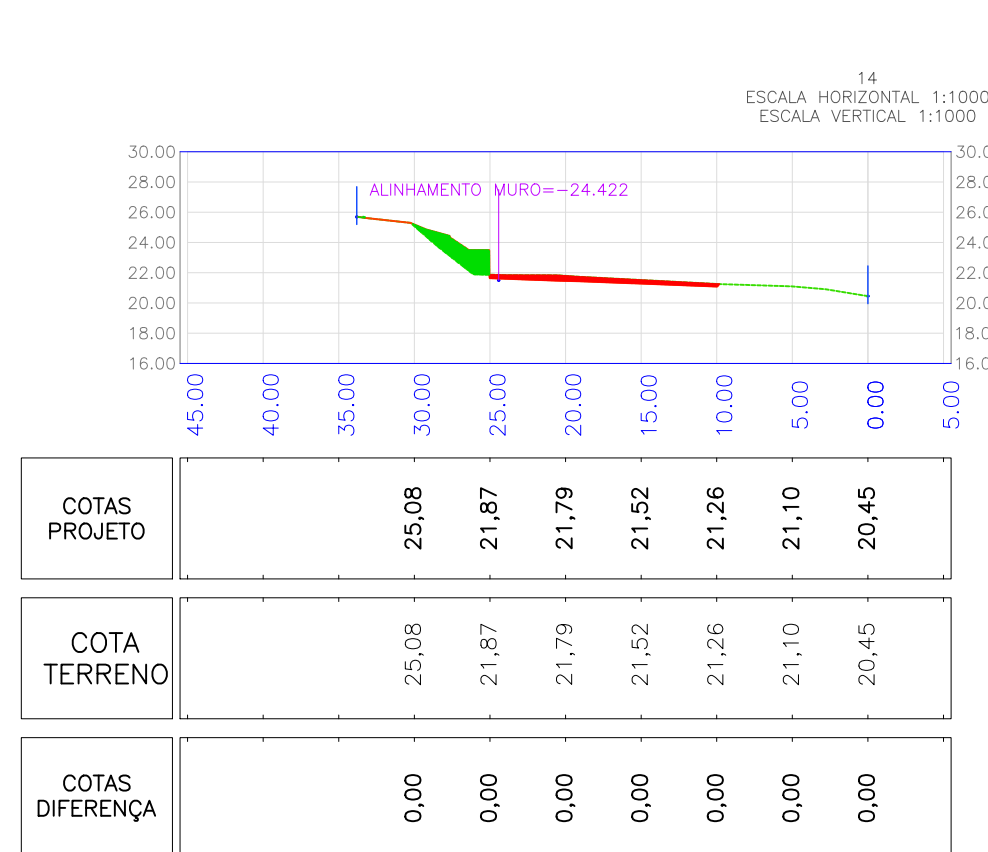
COTAS PROJETO	32.22	31.90	31.47	30.50	28.31	24.92	25.18
COTA TERRENO	32.22	31.90	31.47	30.50	28.31	24.92	25.18
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



COTAS PROJETO	30.21	29.04	28.44	26.57	24.75	23.38
COTA TERRENO	30.21	29.04	28.44	26.57	24.75	23.38
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00



COTAS PROJETO	26.19	24.59	22.61	22.32	22.11	21.97	21.90
COTA TERRENO	26.19	24.59	22.61	22.32	22.11	21.97	21.90
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00



COTAS PROJETO	25.08	21.87	21.79	21.52	21.26	21.10	20.45
COTA TERRENO	25.08	21.87	21.79	21.52	21.26	21.10	20.45
COTAS DIFERENÇA	0.00	0.00	0.00	0.00	0.00	0.00	0.00

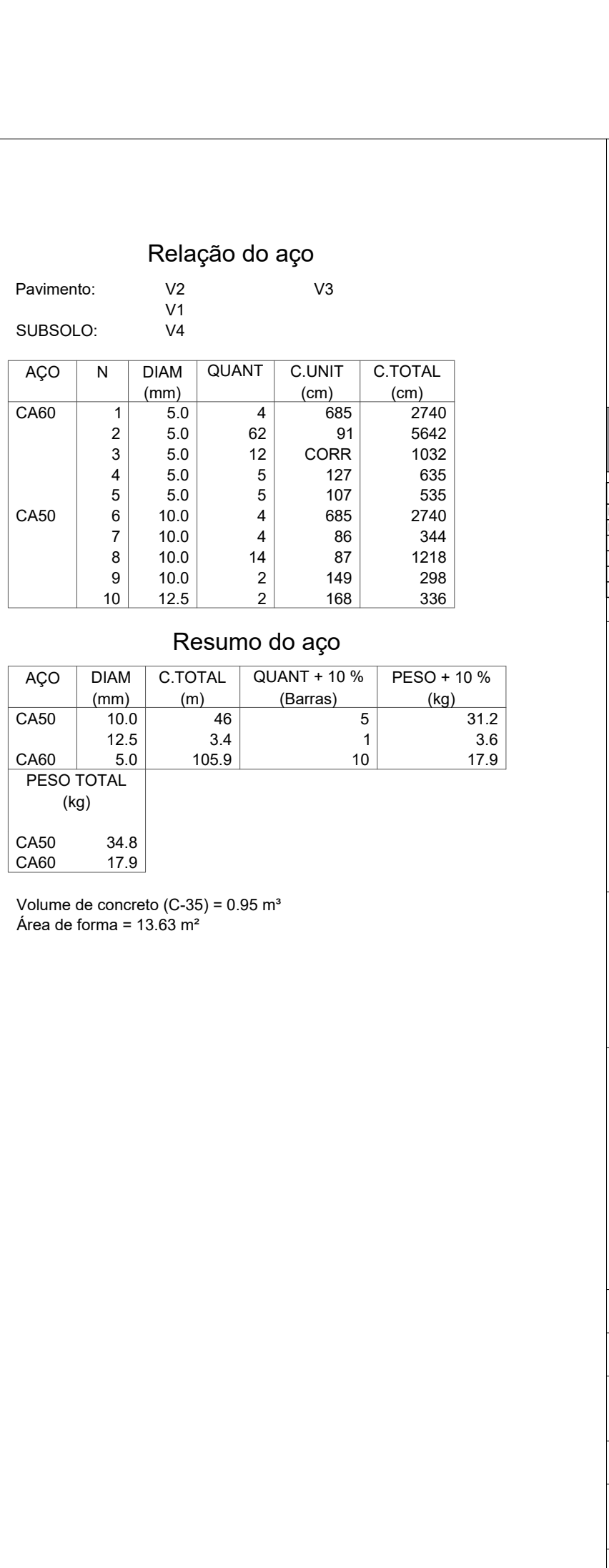
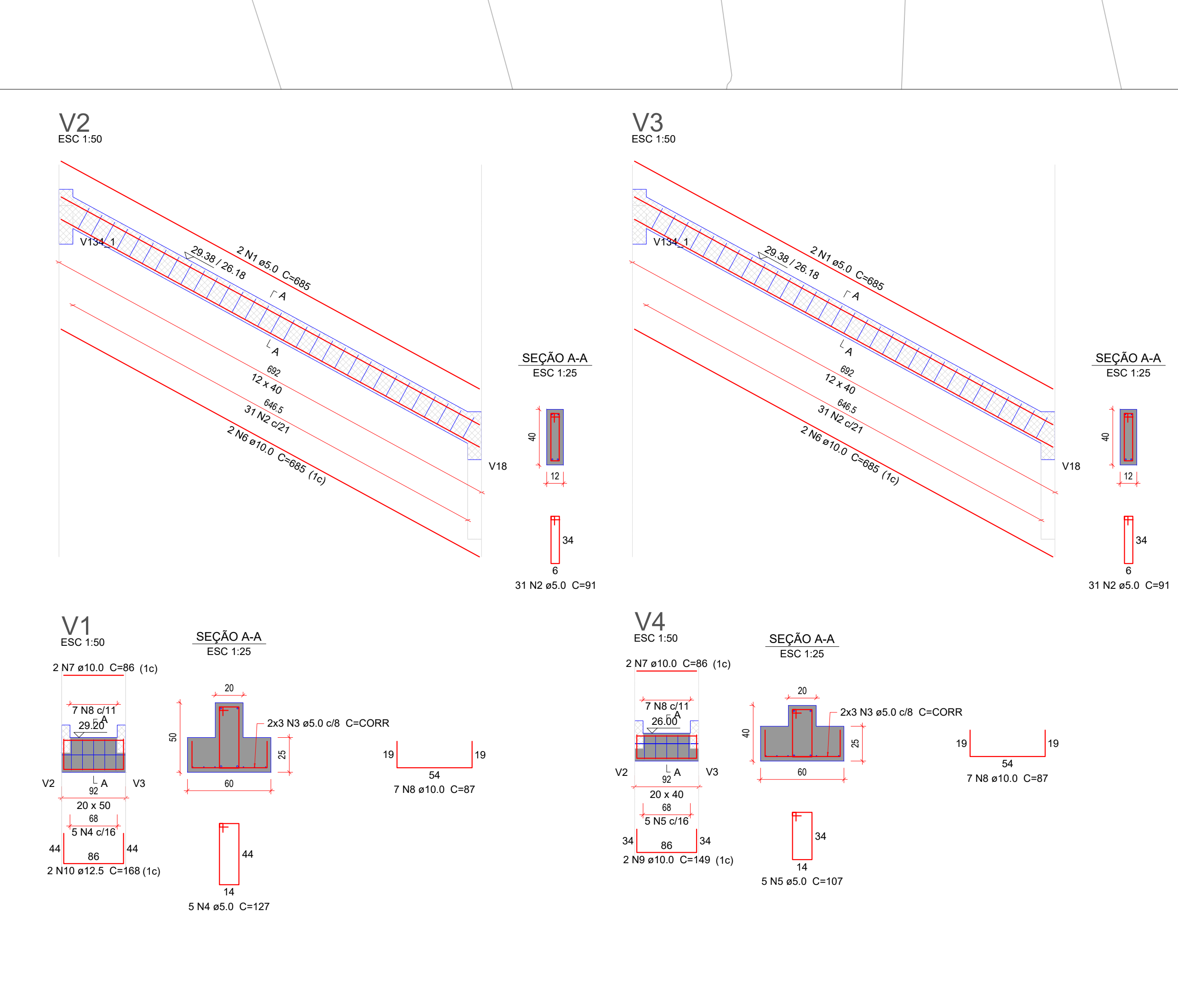
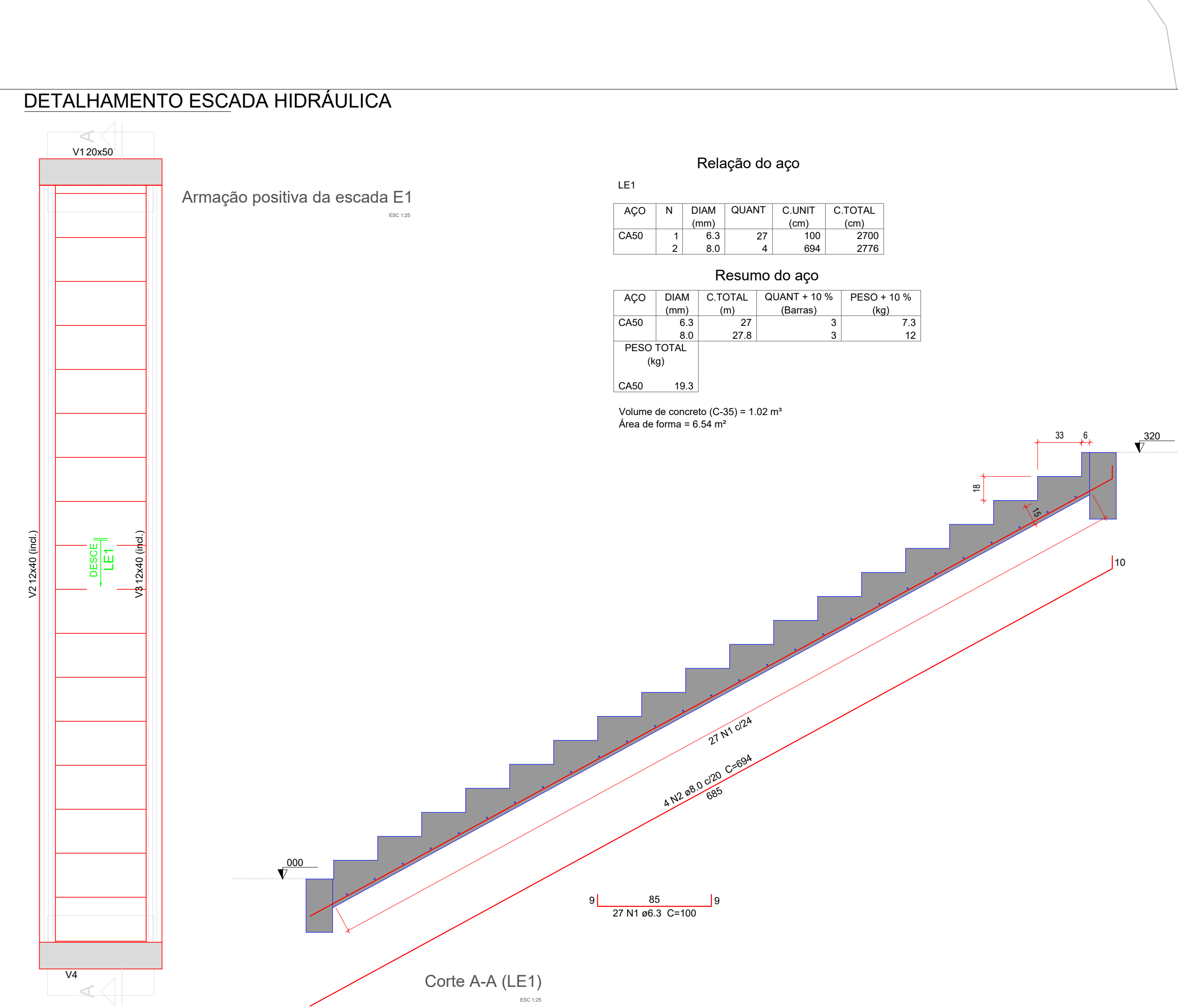
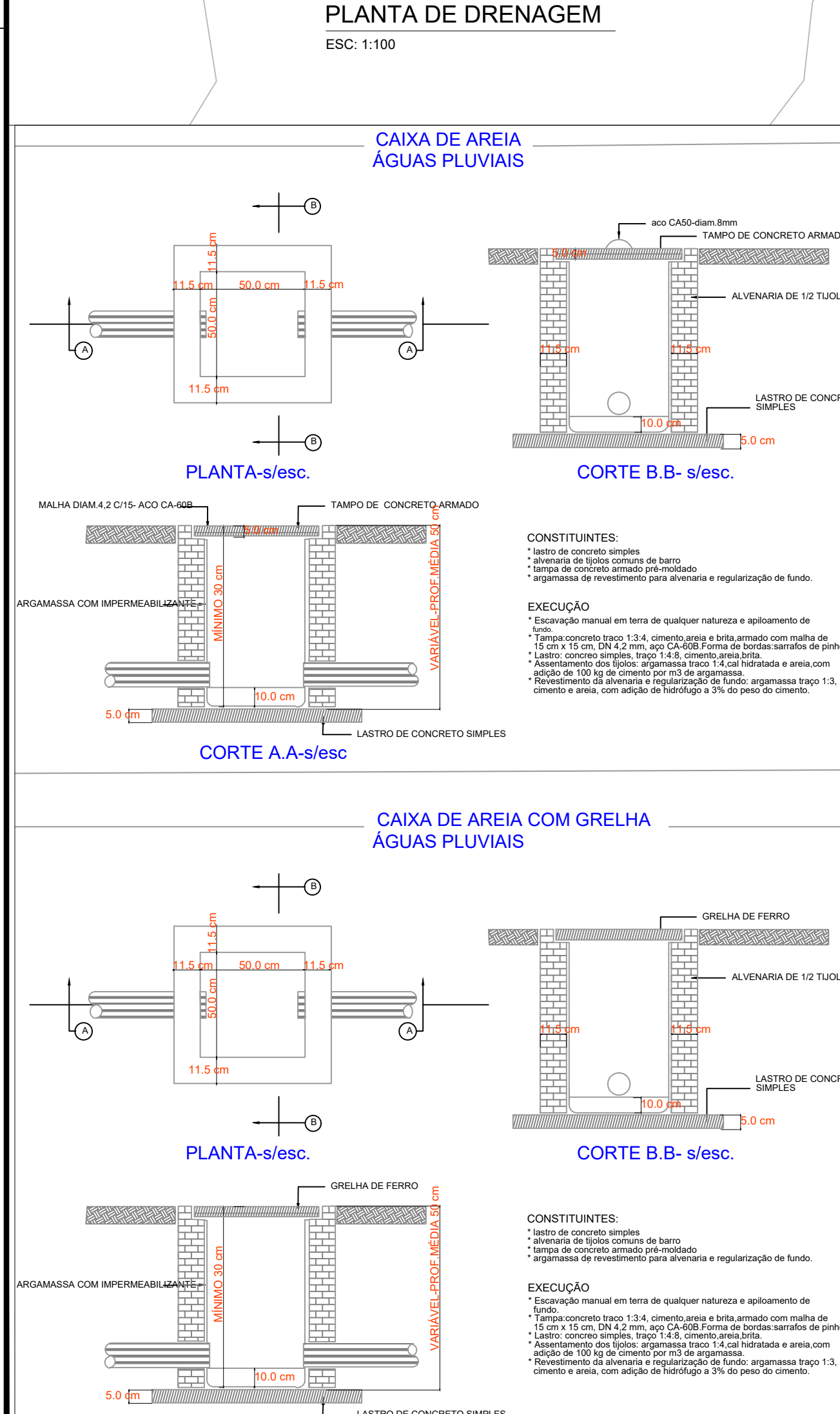
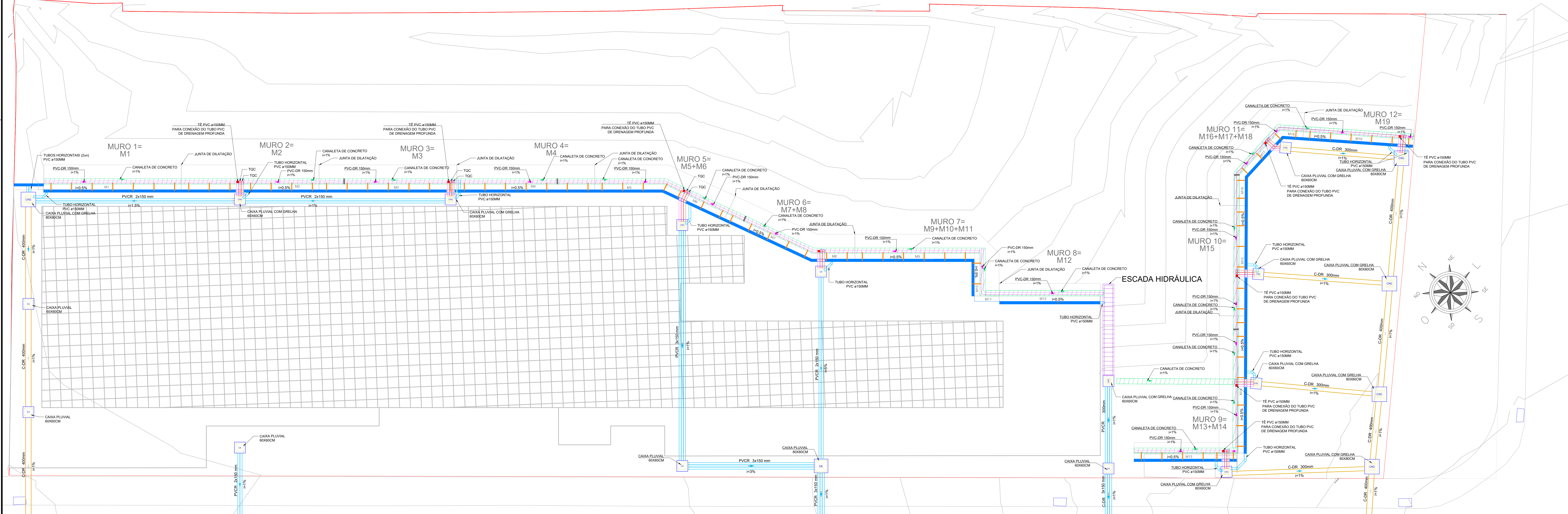
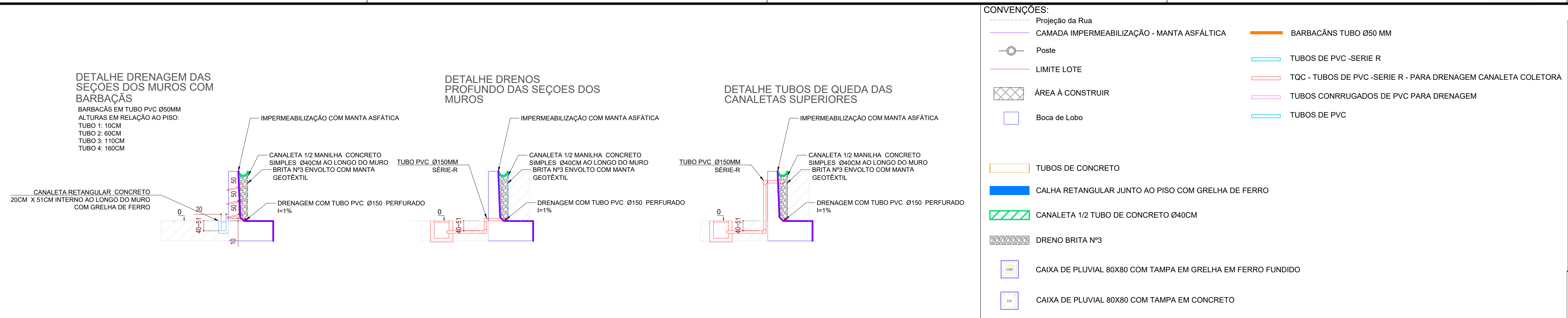
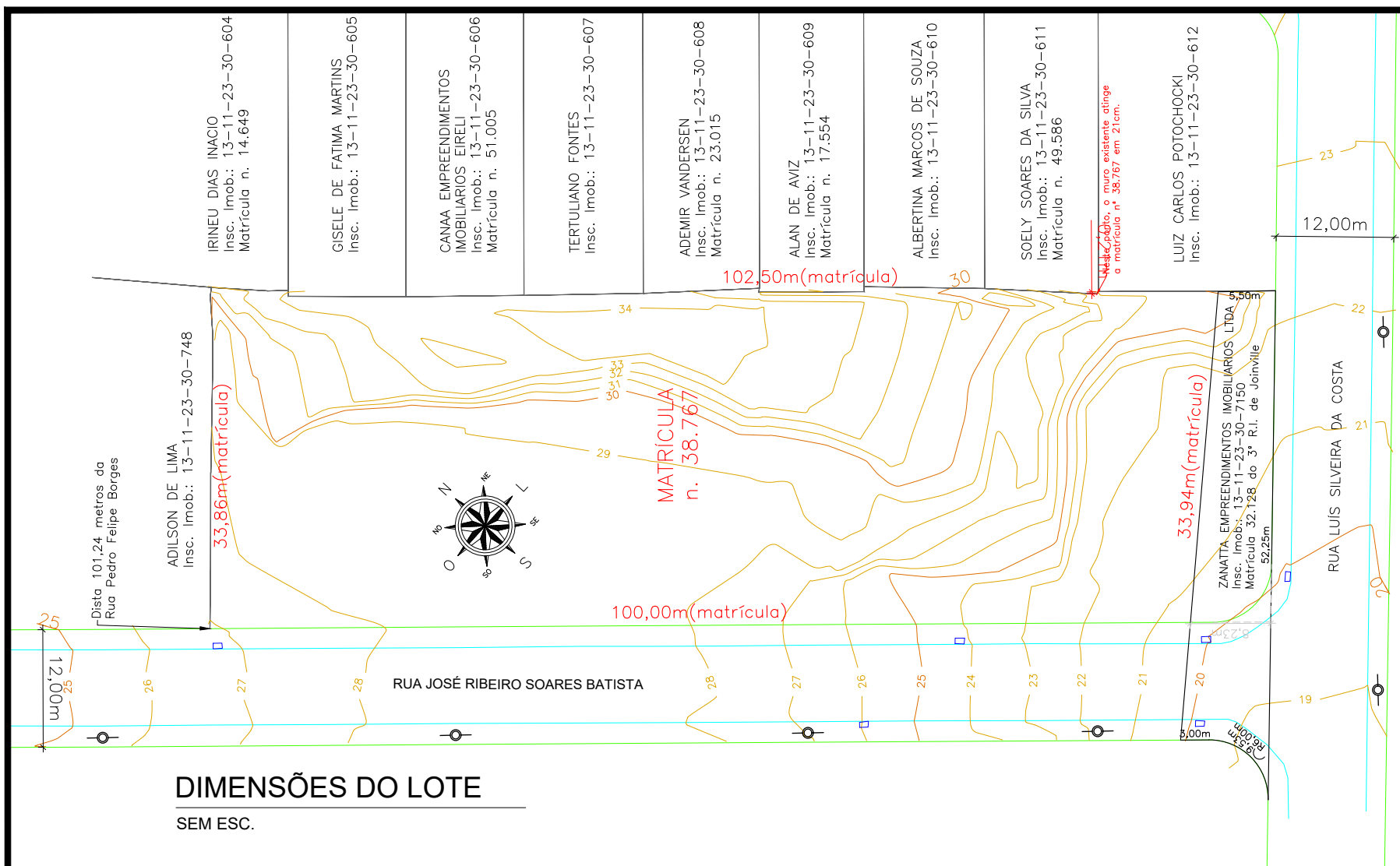
## PROJETO TERRAPLAGEM

QUADRO DE REVISÕES	ELABORAÇÃO	DATA	REVISÃO
REVISÃO	REVISÃO TÉCNICA	15.08.2023	PROJETA

### APROVAÇÕES

PROPRIETÁRIO	RESPONSÁVEL TÉCNICO
MUNICÍPIO DE JOINVILLE	FERNANDO STROTSCH CREA-SC 062822-0
	Assinado de forma digital por FERNANDO STROTSCH 14518920 Data: 2023.08.15 15:10:19 -03'00'
	FERNANDO STROTSCH CREA-SC 062822-0
	Equipe Técnica da Empresa
	FERNANDO STROTSCH Engenheiro Civil CREA-SC 062822-0
PROPRIETÁRIO	MUNICÍPIO DE JOINVILLE
EDIFICAÇÃO	C.E.I. JARIVATUBA
ENDEREÇO	Rua José Ribeiro Soares Batista, nº 155 Bairro: Jarivatuba, Joinville - SC
PROJETO	PROJETO TERRAPLAGEM
CONTEÚDO	SEÇÕES
	ETAPA PROJETO
	INDICAÇÃO
	PTR 02/02





PROJETO DRENAGEM

QUADRO DE REVISÕES

APROVAÇÕES

PROPRIETÁRIO: MUNICÍPIO DE JOINVILLE

RESPONSÁVEL TÉCNICO: FERNANDO STROICH

PROJETO: PLANTA DE DRENAGEM E DETALHAMENTOS

INDICAÇÃO: PTR 01/01