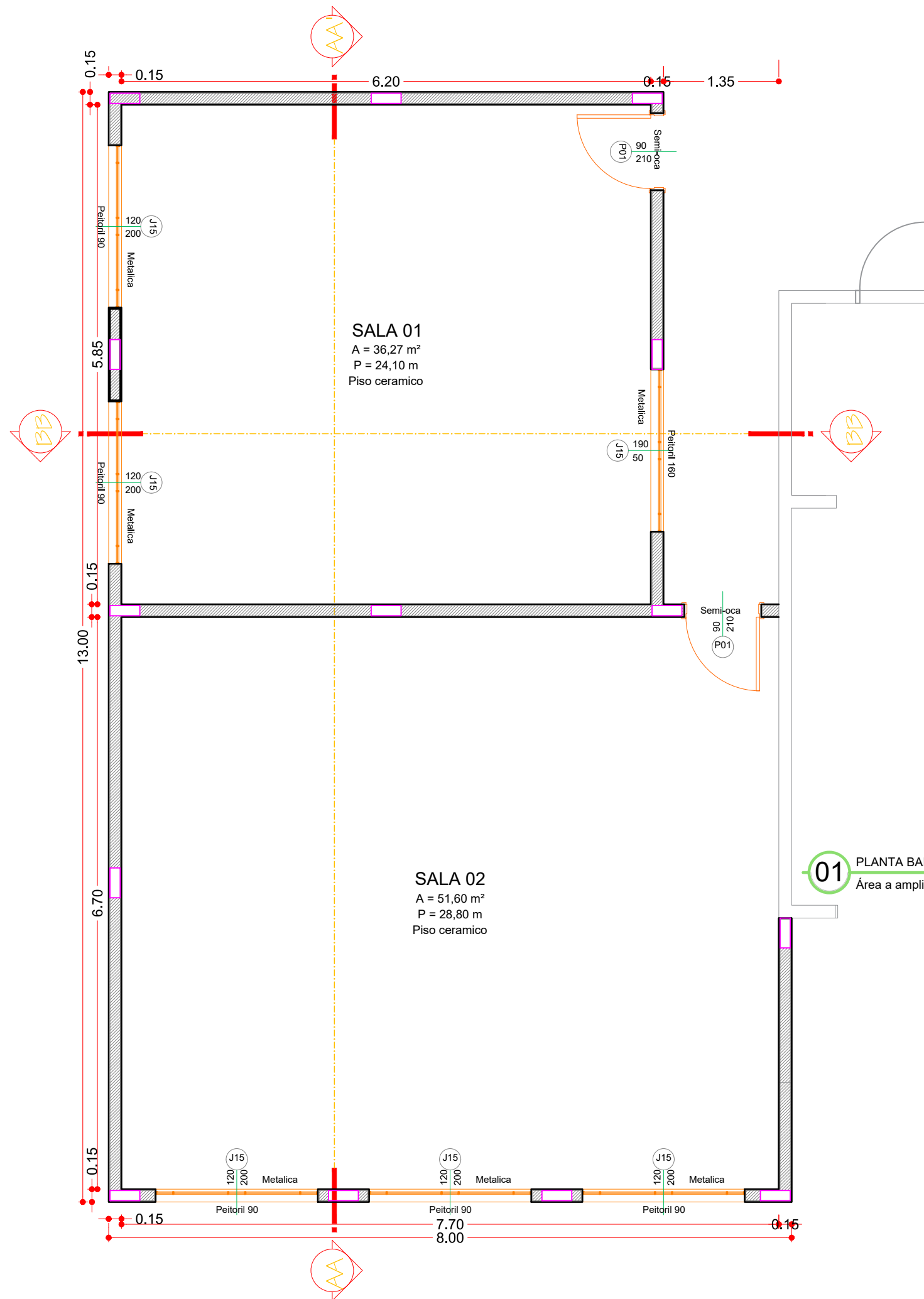
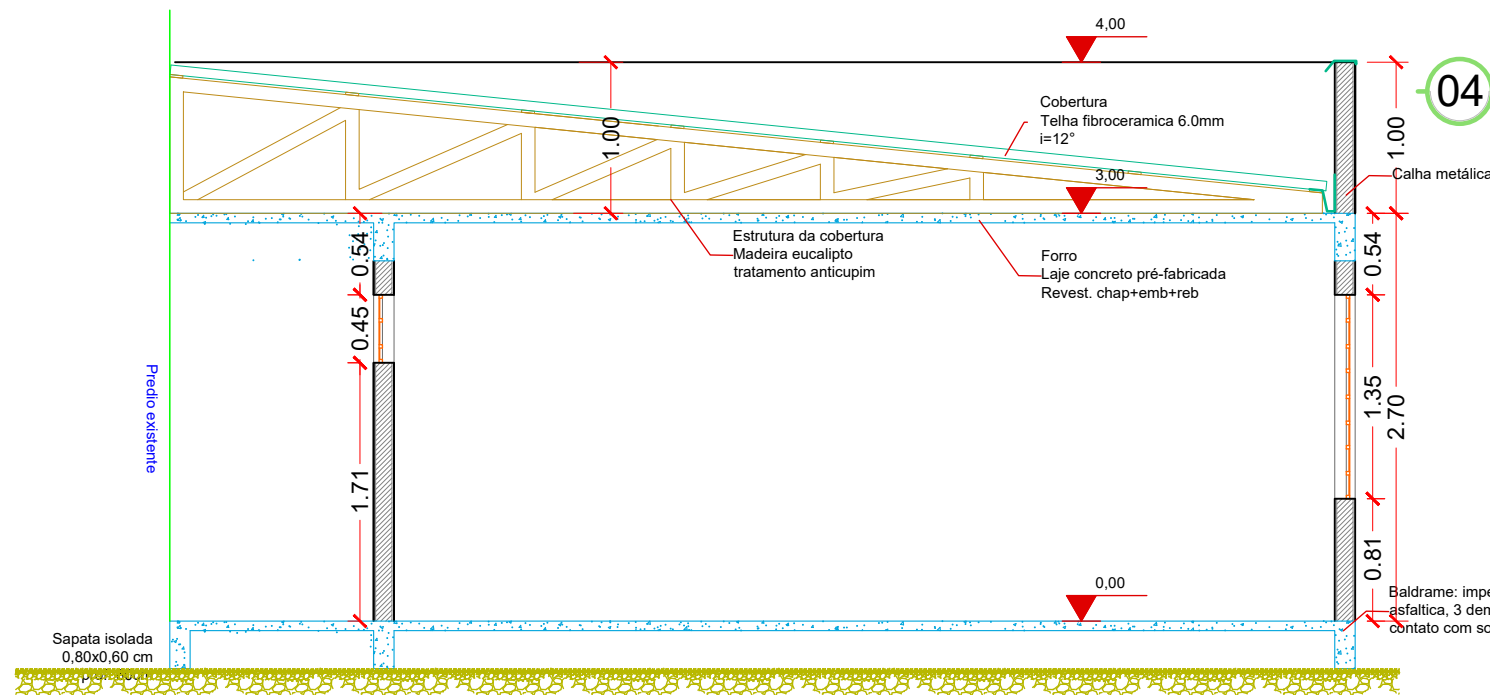
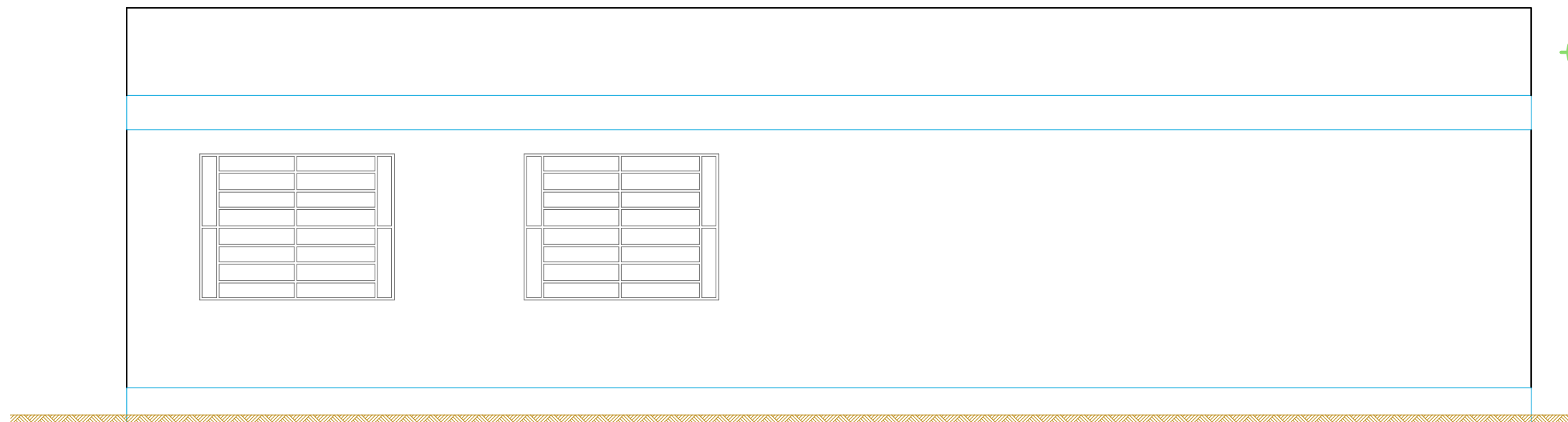
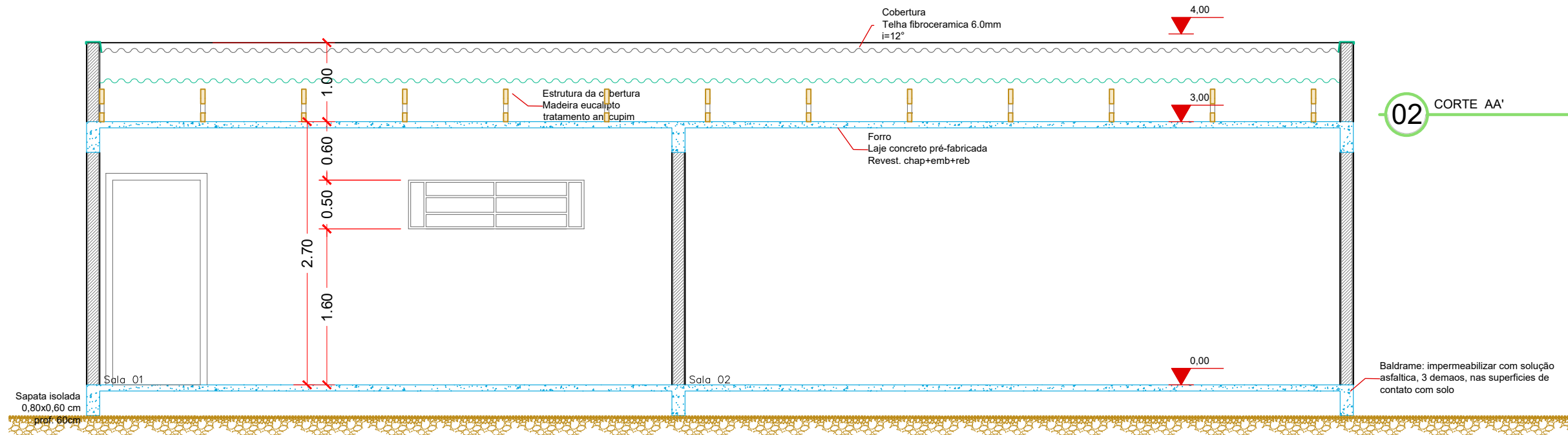


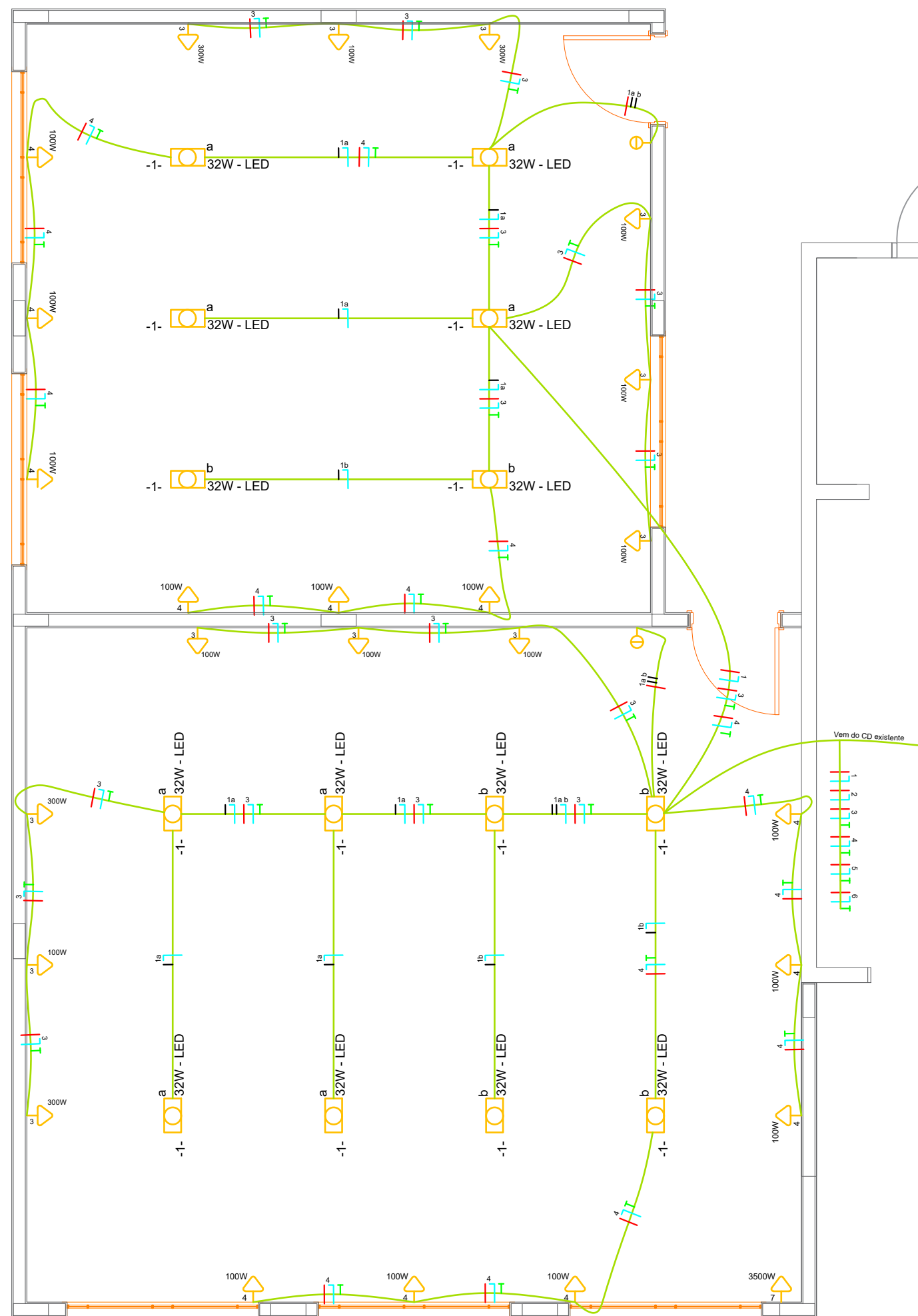


01 PLANTA BAIXA
Área a ampliar = 102,55 m²

 Lagoa dos Três Cantos PREFEITURA MUNICIPAL Rua Ervino Petry Lagoa dos Tres Cantos - RS CEP: 99495-000 Fone: (54) 3392-1083		Obra: Ampliação de escola	
		Prancha: PLANTA BAIXA	
		Endereço: Rua Ervino Petry	
		Município: Lagoa dos Tres Cantos - RS	
		Mat. Terreno:	
Proprietário: Sergio Antonio Lasch Prefeito Municipal	Resp. Técnico: CESAR DOBLER FINK:91226651 020	Assinado de forma digital por CESAR DOBLER FINK:91226651020 Dados: 2024.01.30 15:46:23 -03'00'	
		César Dobler Fink Engº Civil e Seg do Trabalho CREA RS123162D	
		Escala: 1:00	
		Área: 102,55 m²	Prancha: A 2/3
		Data: Janeiro / 2024	



 Rua Ervino Petry Lagoa dos Tres Cantos - RS CEP: 99495-000 Fone: (54) 3392-1083		Obra: Ampliação de escola	
Proprietário: Sergio Antonio Lasch Prefeito Municipal		Prancha: CORTES AA' e BB' Fachada	
Resp. Técnico: CESAR DOBLER FINK:91226651 020 Assinado de forma digital por CESAR DOBLER FINK:91226651020 Dados: 2024.01.30 15:47:09 -03'00' César Dobler Fink Engº Civil e Seg do Trabalho CREA RS123162D		Endereço: Rua Ervino Petry	
		Município: Lagoa dos Tres Cantos - RS	
		Mat. Terreno:	
		Escala: 1:00	Prancha: A 3/3
		Área: 102,55 m²	
		Data: Janeiro / 2024	

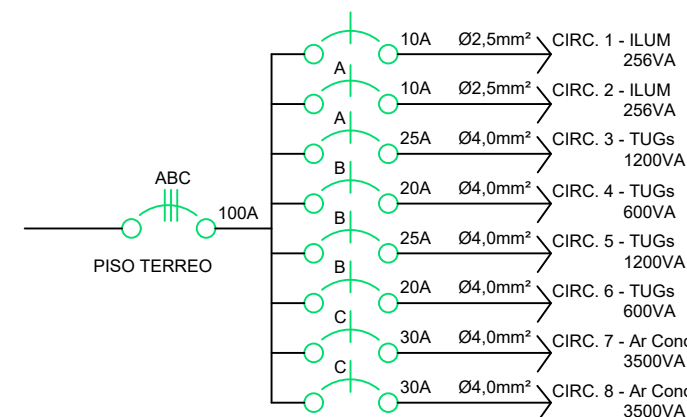


LEGENDA

- a 3x100 W Ponto de luz LED no teto
- a 3x20 W Ponto de luz LED no teto
- ↗ Eletroduto que desce
- ↖ Eletroduto que sobe
- 100W Ponto de tomada alta - 210 cm do piso
- 100W Ponto de tomada media - 110 cm do piso
- 100W Ponto de tomada baixa - 30 cm do piso
- 3500W Ar cond Ponto de tomada alta-ar condicionado - 210 cm do piso
- b c d Interruptor - simples/duplo/triplo
- C.D. Centro de distribuição
- Conductor fase
- Conductor neutro
- Conductor retorno
- T Conductor terra



300 LUMENS	30w	14w	9w	4w
470 LUMENS	45w	22w	14w	6w
810 LUMENS	60w	37w	22w	10w
1100 LUMENS	75w	45w	27w	12w
1700 LUMENS	100w	75w	45w	20w
Vida útil	1 Ano	1-3 Anos	6-10 Anos	15-20 Anos



03 DIAGRAMA UNIFILAR GERAL

CIRCUITO (nº)	LÂMPADAS (W)	TOMADAS (W)	TOTAL (W)	CORRENTE (A)	PROTEÇÃO			CONDUTOR (Ø mm²)	TERRA (Ø mm²)	EQUILIBRIO DE FASES
					TIPO	NÚMERO DE POLOS	CORRENTE NOMINAL			
1	256		256	1,16	DTM	1	10	2 Ø 2,5		R
2	256		256	1,16	DTM	1	10	2 Ø 2,5		R
3		1200	1200	5,45	DTM	1	25	2 Ø 4,0	1 Ø 4,0	S
4		600	600	2,72	DTM	1	25	2 Ø 4,0	1 Ø 4,0	S
5		1200	1200	5,45	DTM	1	25	2 Ø 4,0	1 Ø 4,0	R
6		600	600	2,72	DTM	1	25	2 Ø 4,0	1 Ø 4,0	S
7		3500	3500	15,90	DTM	1	25	2 Ø 4,0	1 Ø 4,0	R
8		3500	3500	15,90	DTM	1	25	2 Ø 6,0	1 Ø 6,0	S
CARGA PREVISTA			11112	50,50	DR	1	60	2 Ø 10,0	1 Ø 10,0	RS

04 QUADRO DE CARGAS



Lagoa dos Três Cantos

PREFEITURA MUNICIPAL

Rua Ervino Petry
Lagoa dos Tres Cantos - RS
CEP: 99495-000

Fone: (54) 3392-1083

Proprietário:

Sergio Antonio Lasch
Prefeito Municipal

Resp. Técnico:

CESAR DOBLER
FINK:91226651
020

Assinado de forma digital por CESAR DOBLER
FINK:91226651020
Dados: 2024.01.30 15:50:11 -03'00'

César Dobler Fink
Engº Civil e Seg do Trabalho
CREA RS123162D

Obra:

Ampliação de escola

Prancha:

PROJETO ELÉTRICO

Endereço:

Rua Ervino Petry

Município:

Lagoa dos Tres Cantos - RS

Mat. Terreno:

Escala:

1:00

Área:

102,55 m²

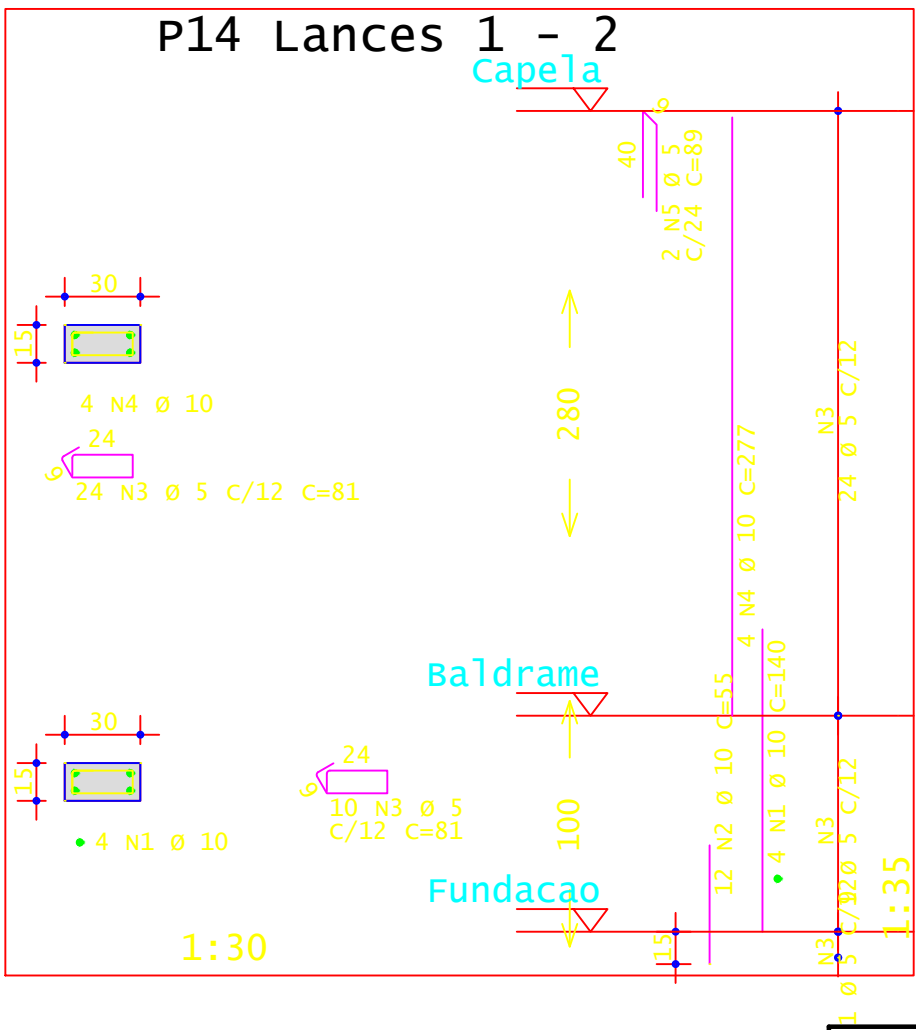
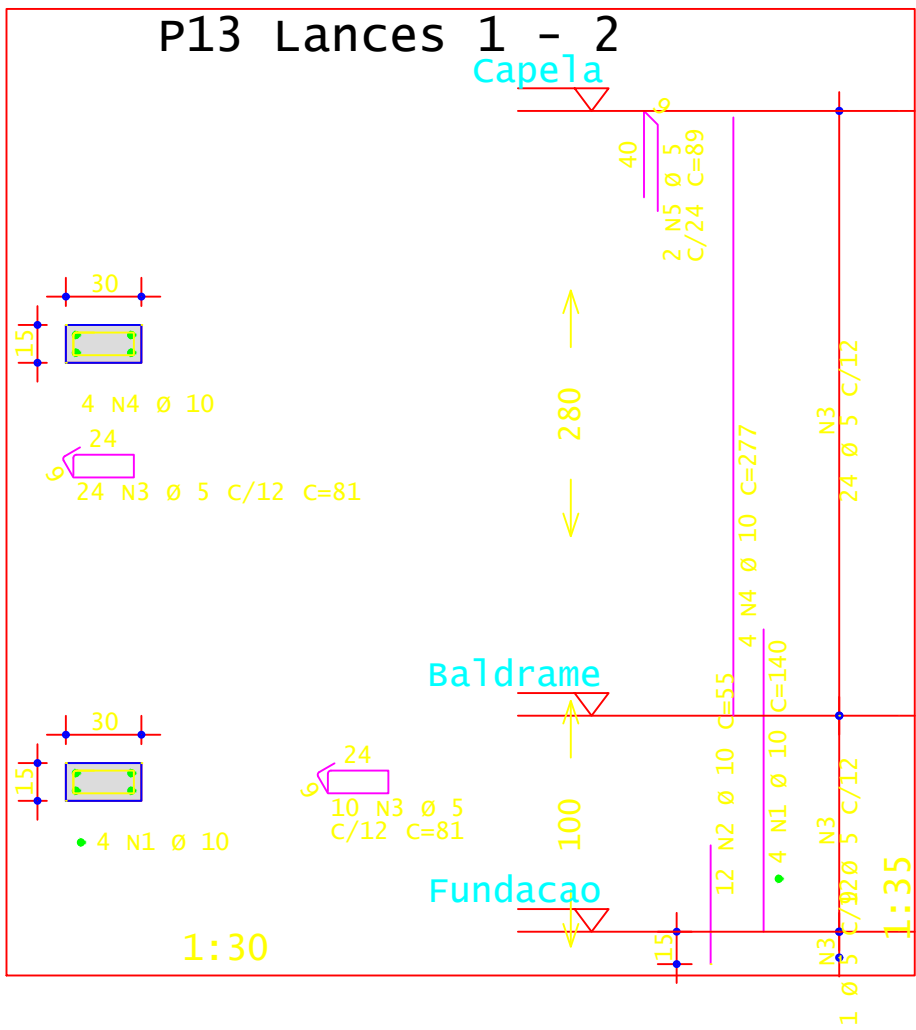
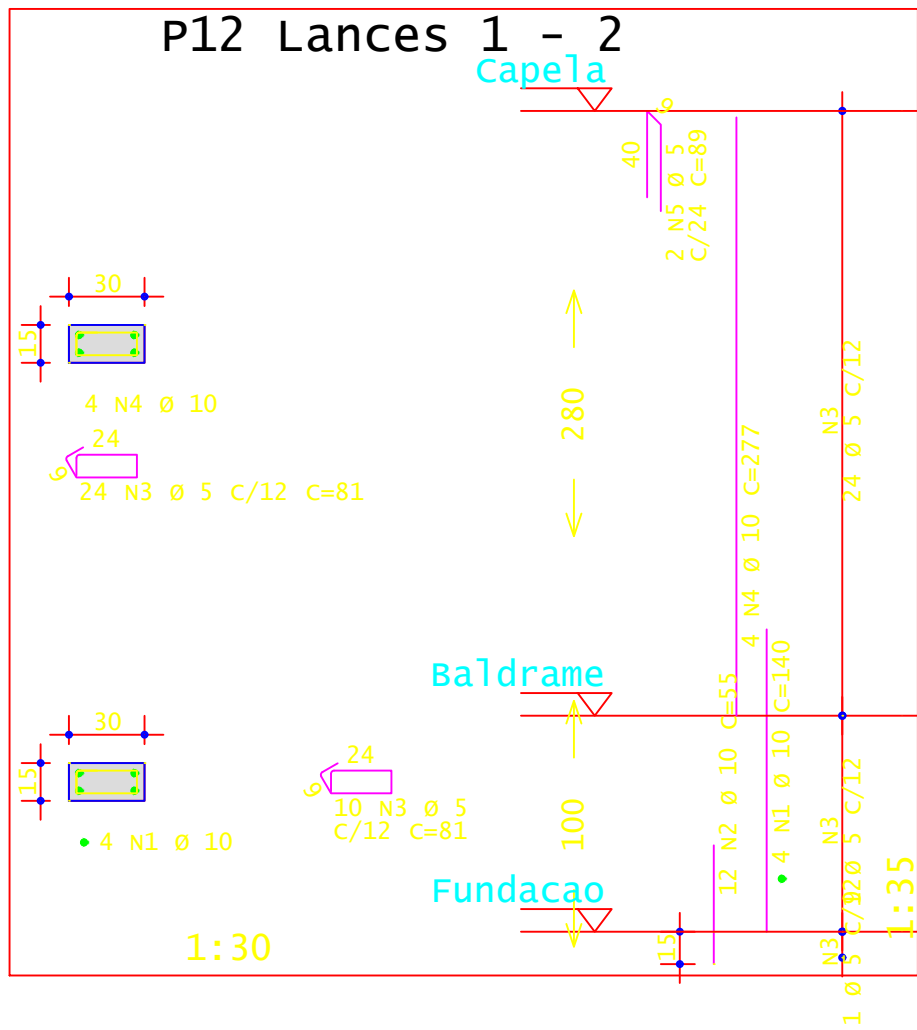
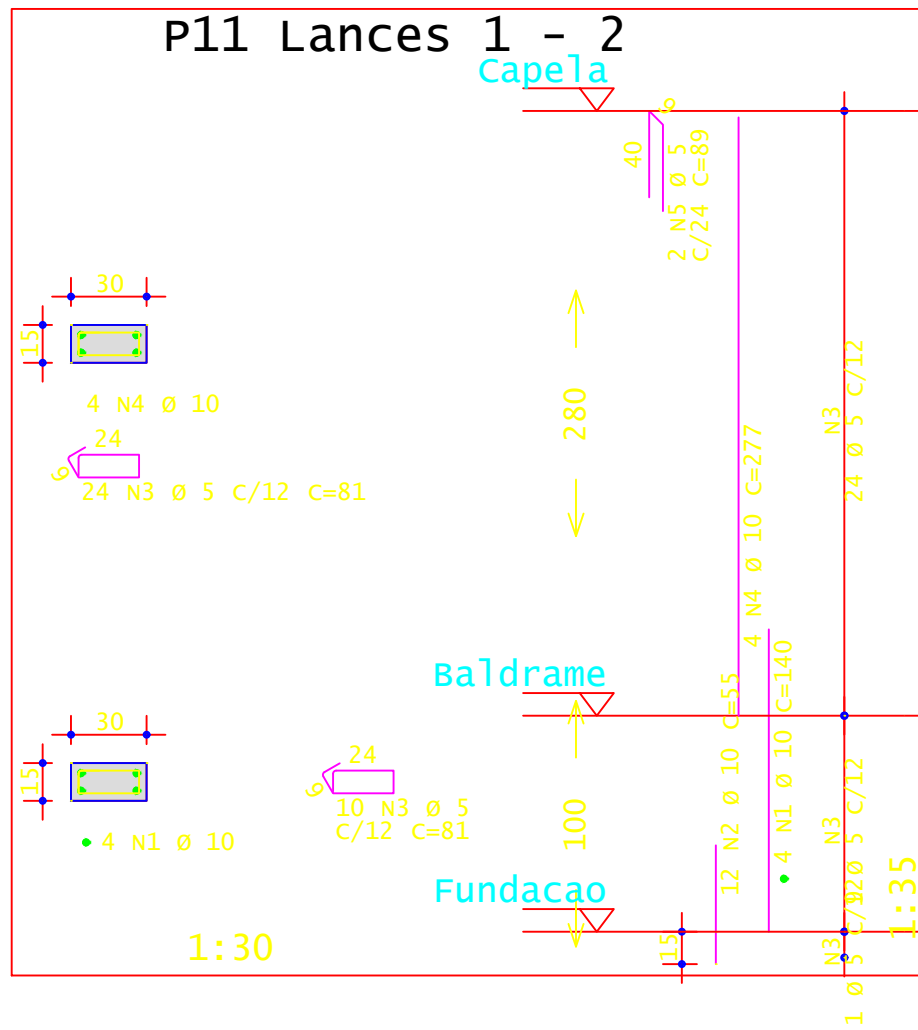
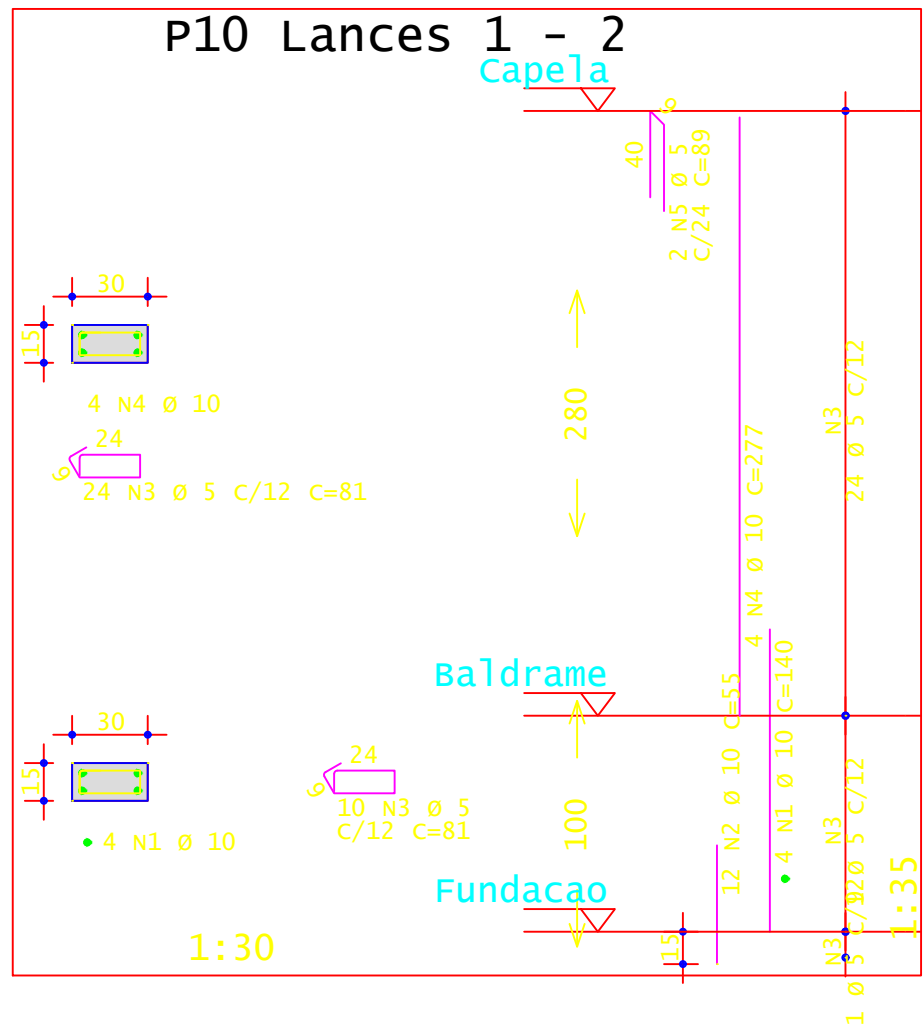
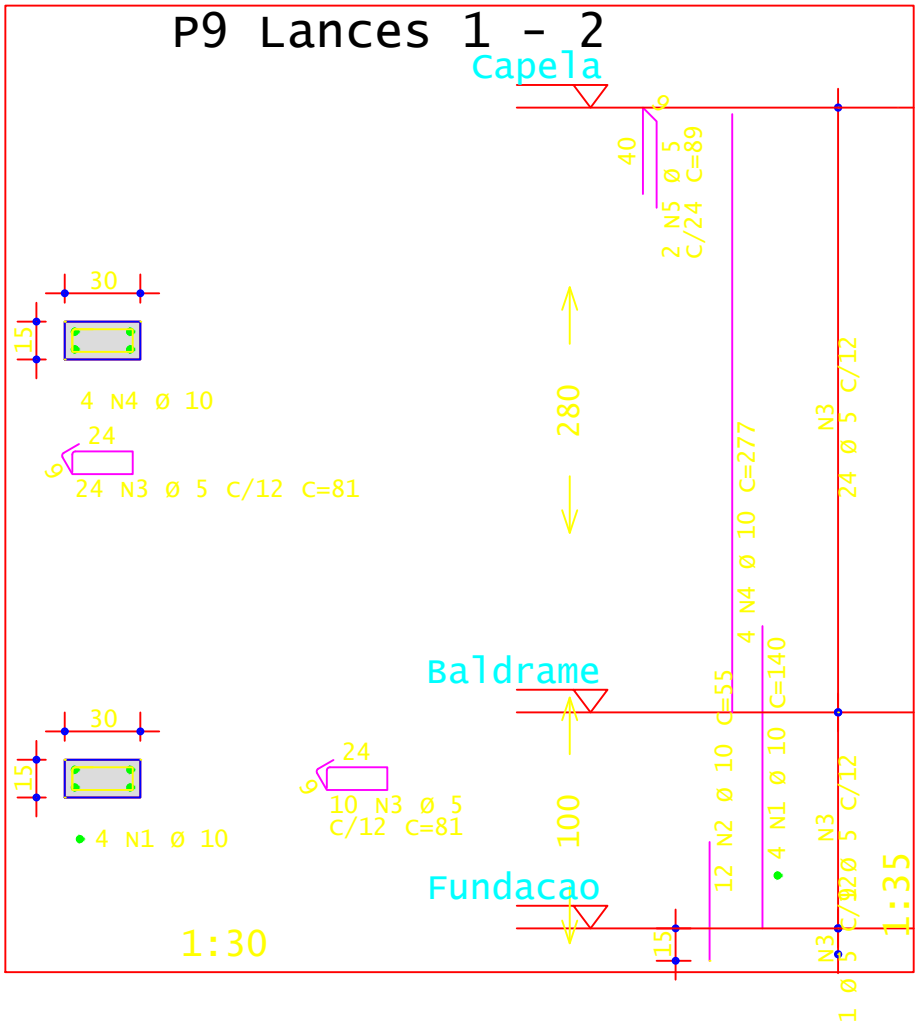
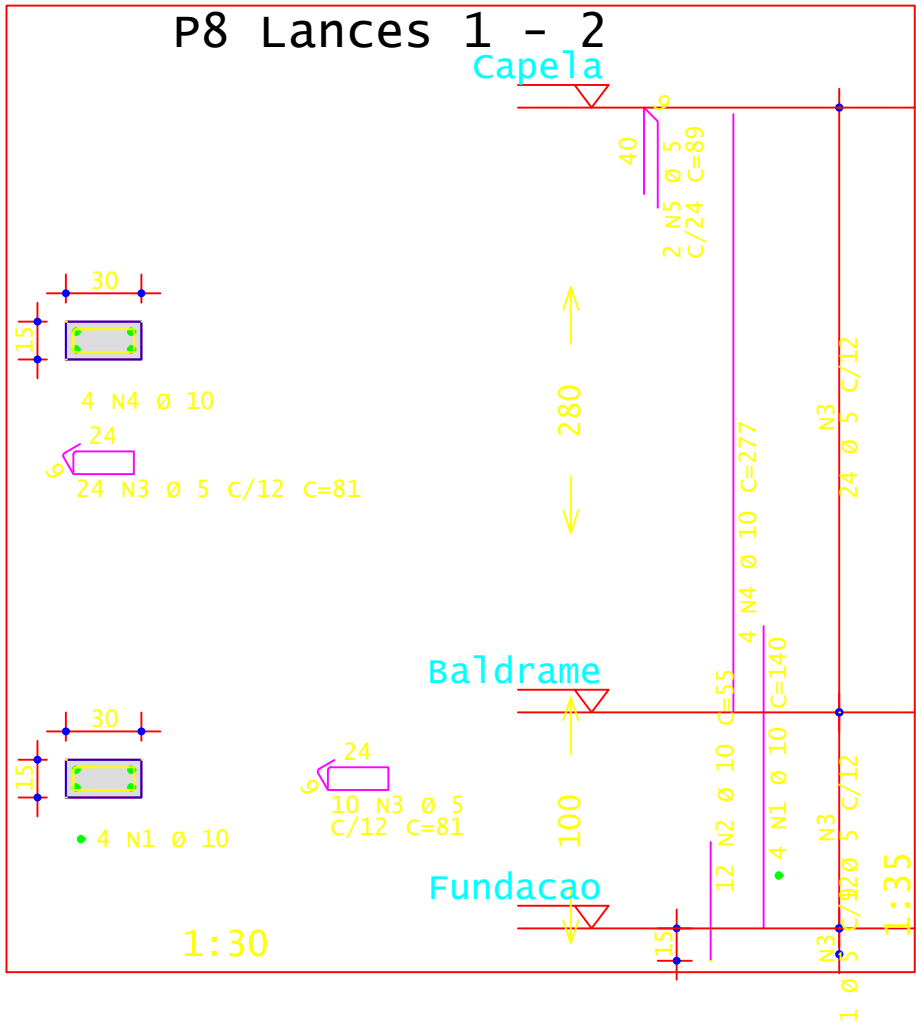
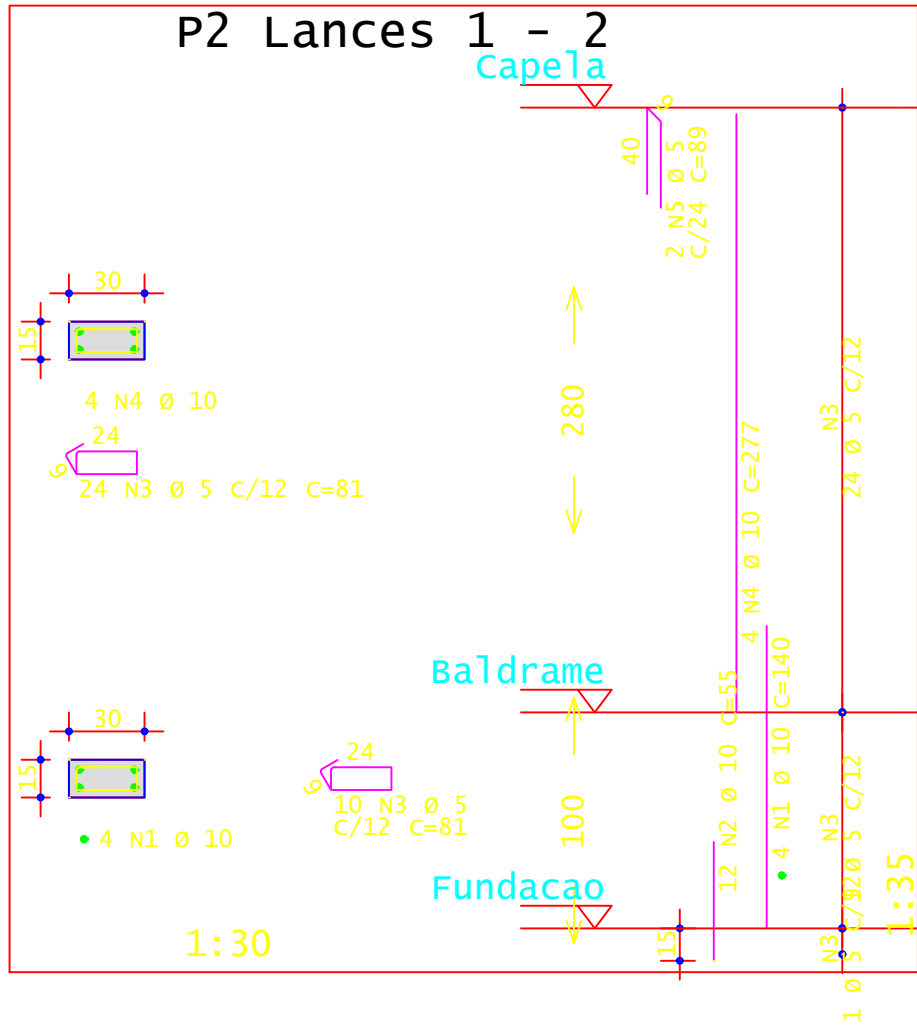
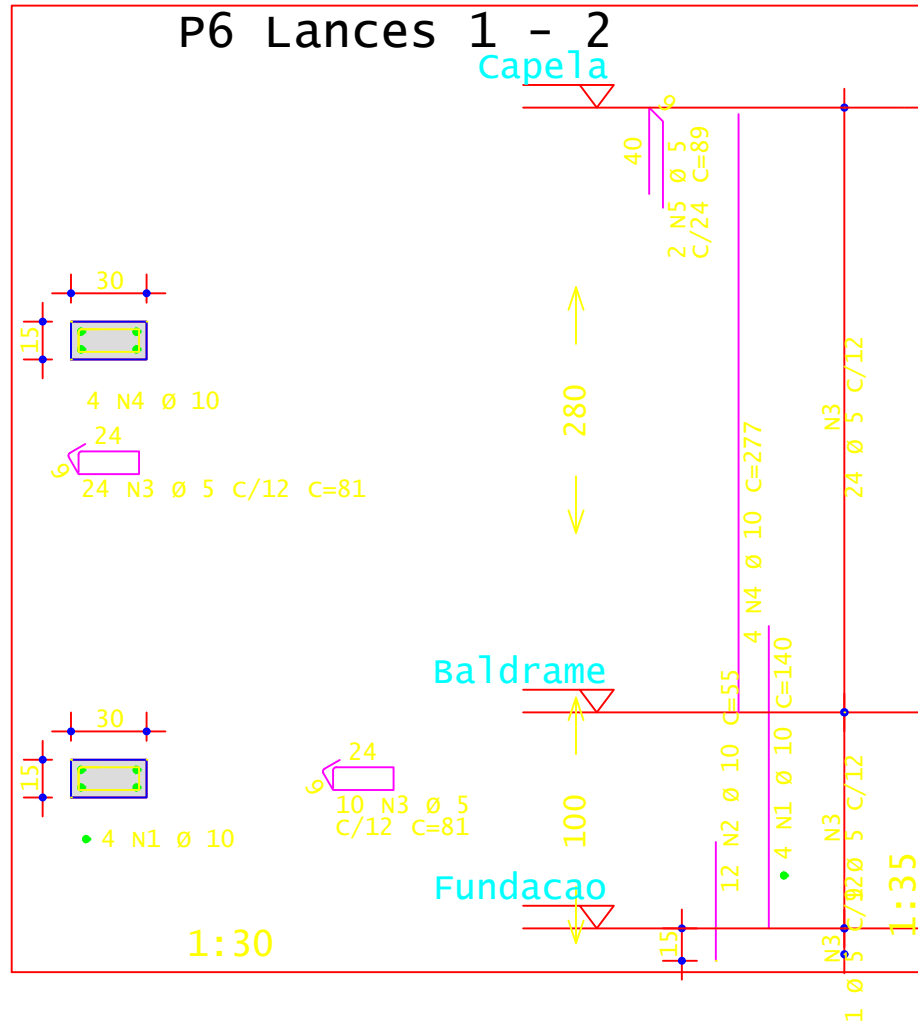
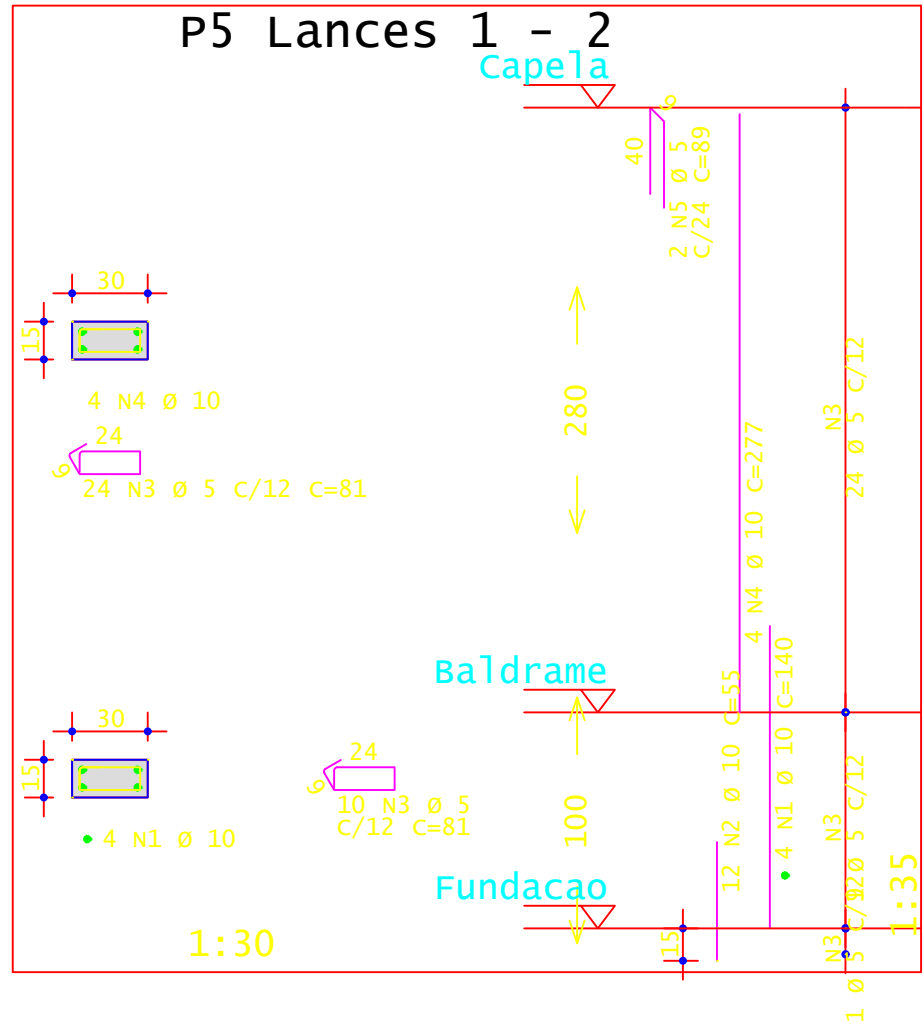
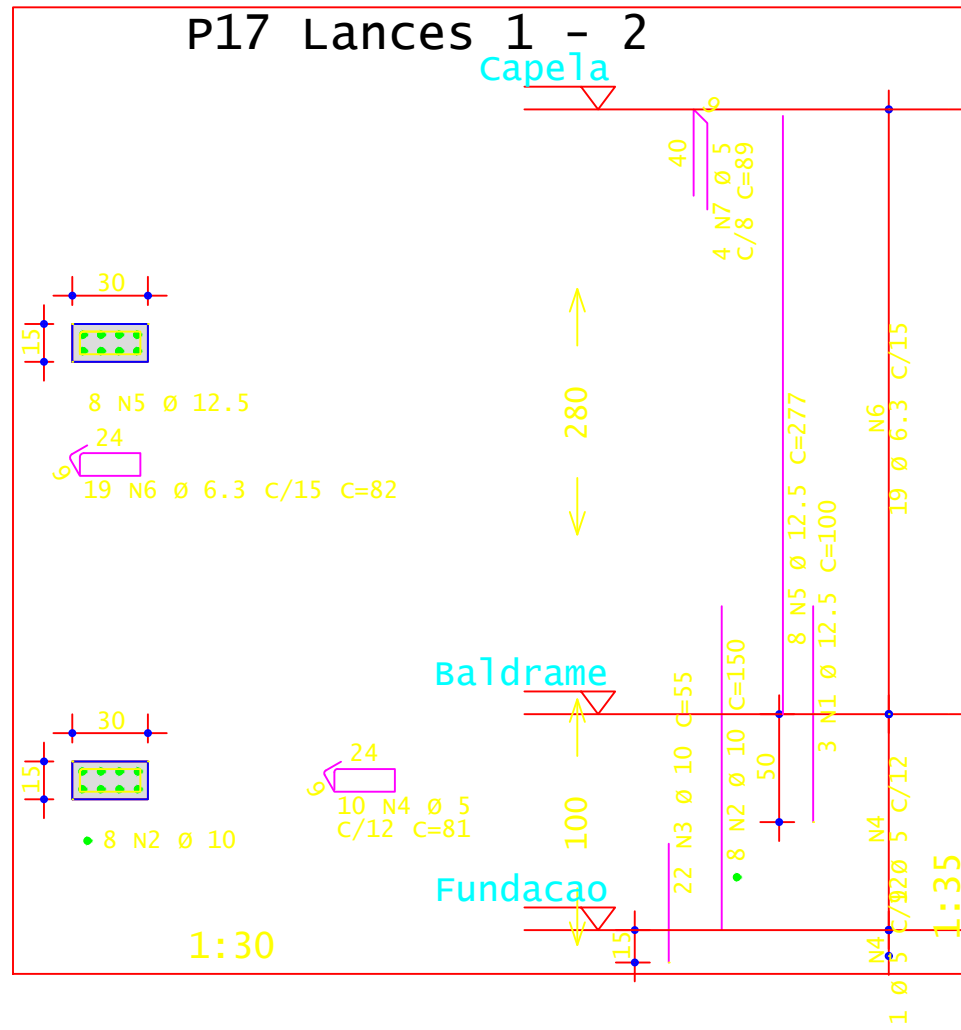
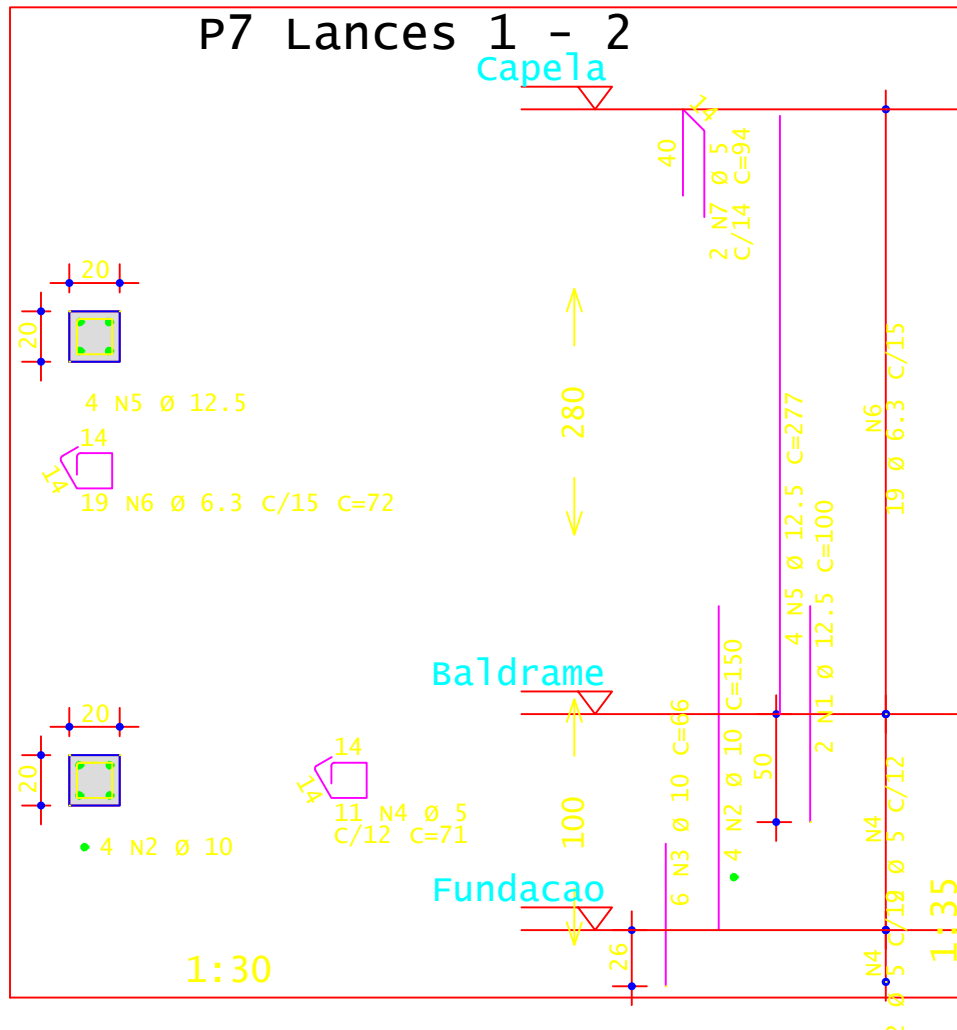
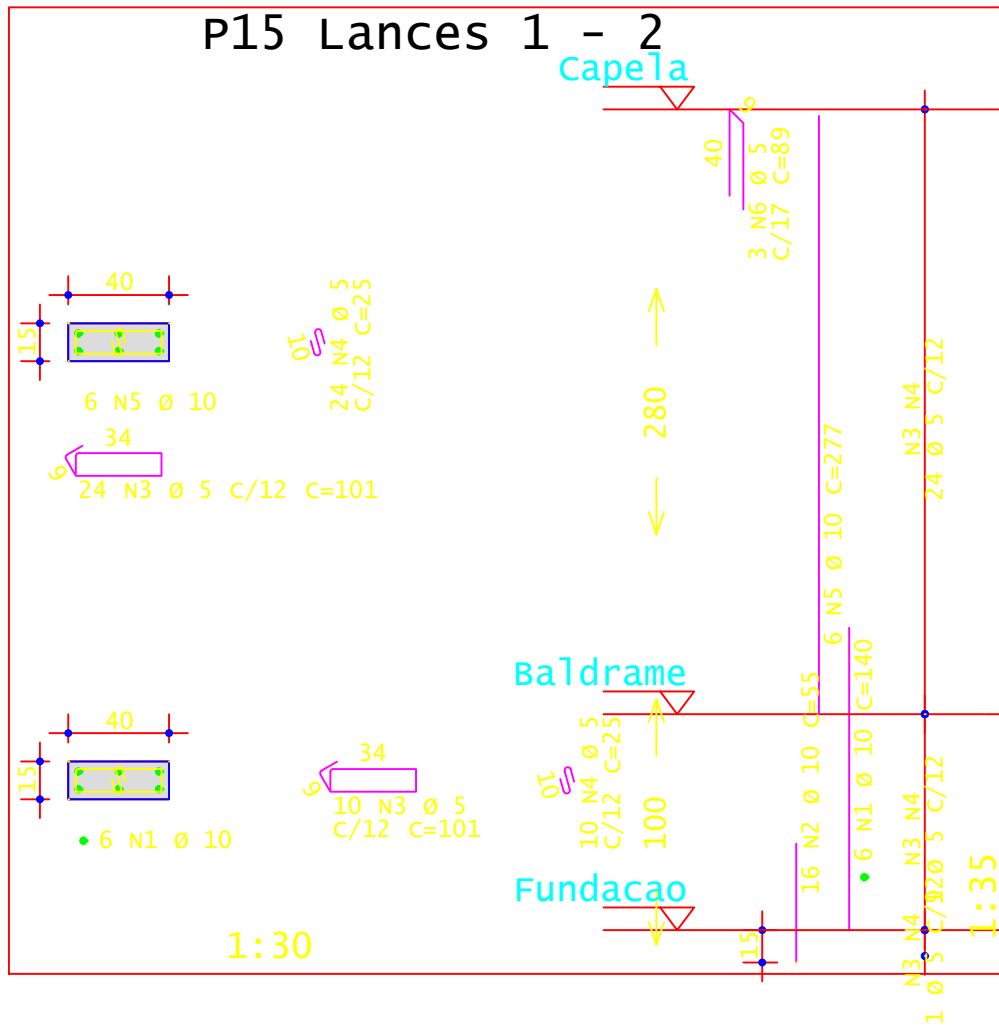
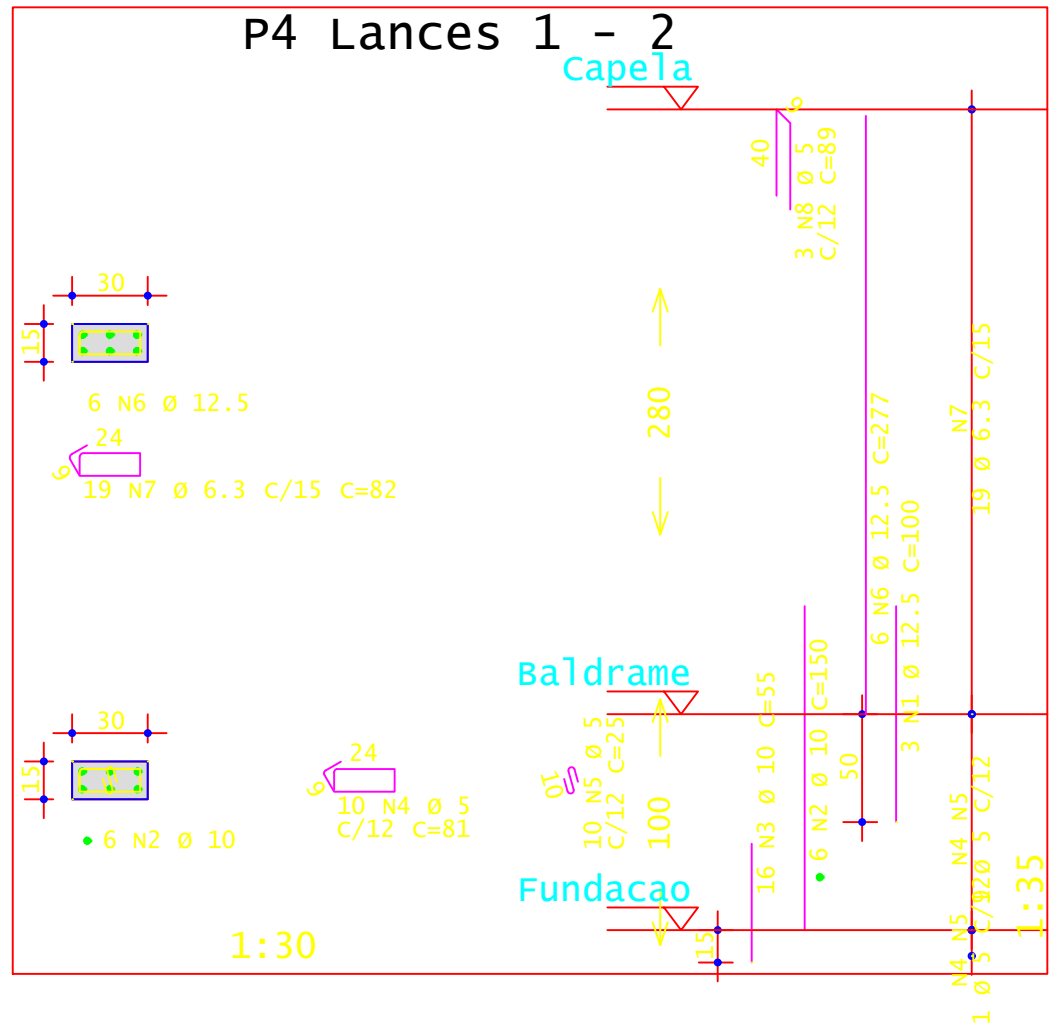
Data:

Janeiro / 2024

Prancha:

E

1/1



AÇO	POS	BIT	QUANT	COMPRIMENTO	
				UNIT	TOTAL
		mm		cm	cm
P2 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P4 Lances 1 - 2					
50A	1	12.5	3	100	300
50A	2	10	16	55	880
50A	3	5	10	81	810
60A	4	5	10	25	250
50A	5	12.5	6	277	1662
60A	6	6.3	19	82	1558
60A	7	5	3	89	267
P5 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P6 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P7 Lances 1 - 2					
50A	1	12.5	2	100	200
50A	2	10	4	150	600
50A	3	10	6	66	396
60A	4	5	11	71	781
50A	5	12.5	4	277	1108
50A	6	6.3	19	72	1368
60A	7	5	2	94	188
P8 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P9 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
50A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P10 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P11 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P12 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P13 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P14 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P15 Lances 1 - 2					
50A	1	10	6	140	840
50A	2	10	16	55	880
60A	3	5	34	101	3434
60A	4	5	34	850	850
50A	5	10	6	277	1662
60A	6	5	3	89	267
P17 Lances 1 - 2					
50A	1	12.5	3	100	300
50A	2	10	16	150	1200
50A	3	10	22	55	1210
60A	4	5	10	81	810
50A	5	12.5	8	277	2216
50A	6	6.3	19	82	1558
60A	7	5	4	89	356
P20 Lances 1 - 2					
60A	1	5	2	89	178
60A	2	5	2	89	178
P22 Lances 1 - 2					
60A	1	5	2	89	178
60A	2	5	2	89	178

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60A	6.3	380	59
50A	12.5	45	11
50A	10	318	197
50A	12.5	58	56
Peso Total		60A =	59 kgf
Peso Total		50A =	263 kgf



Lagoa dos Três Cantos
PREFEITURA MUNICIPAL

Rua Ervino Petry
Lagoa dos Três Cantos - RS
CEP: 96495-000
Fone: (54) 3392-1083

Proprietário:

Sergio Antonio Lasch
Problema Municipal

Revisado por:

DOBLER
FINK/9122665
1020

Assinado de forma digital por CESAR DOBLER
FINK/91226651020
Dados: 2024.01.30 15:48:55 -03'00'
CESAR DOBLER FINK
CREA-RS 12316020

Escala:

1:00

Área:

102.55 m²

Data:

Janeiro / 2024

Obras:

Ampliação de escola

Pranchas:

PILARES

Endereço:

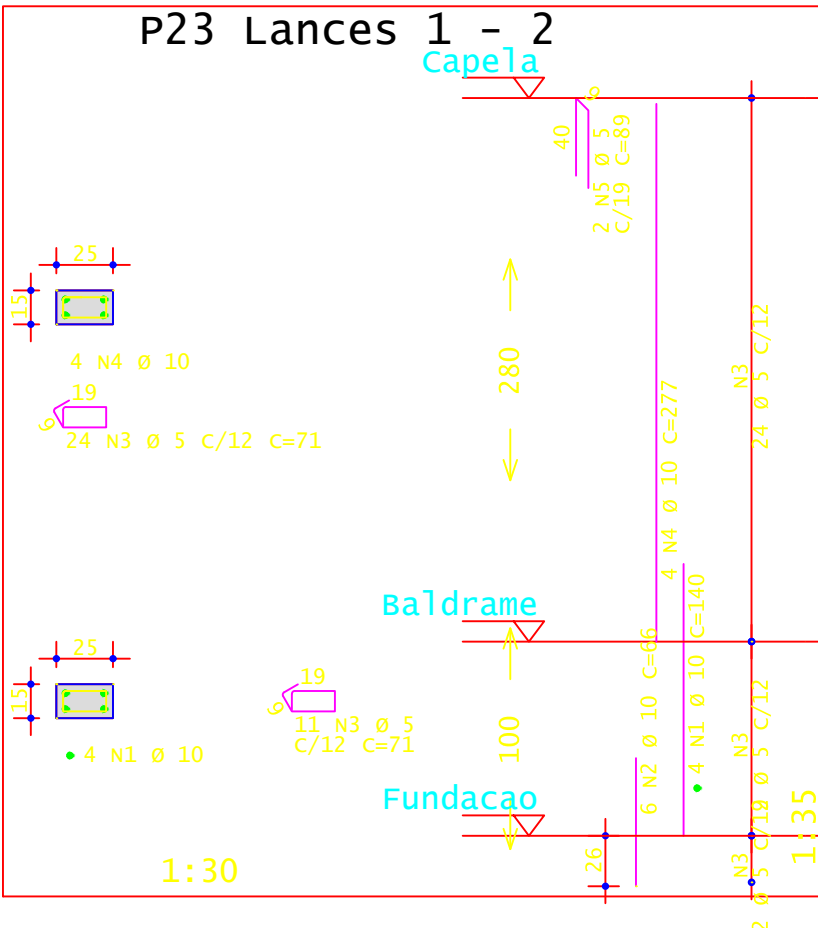
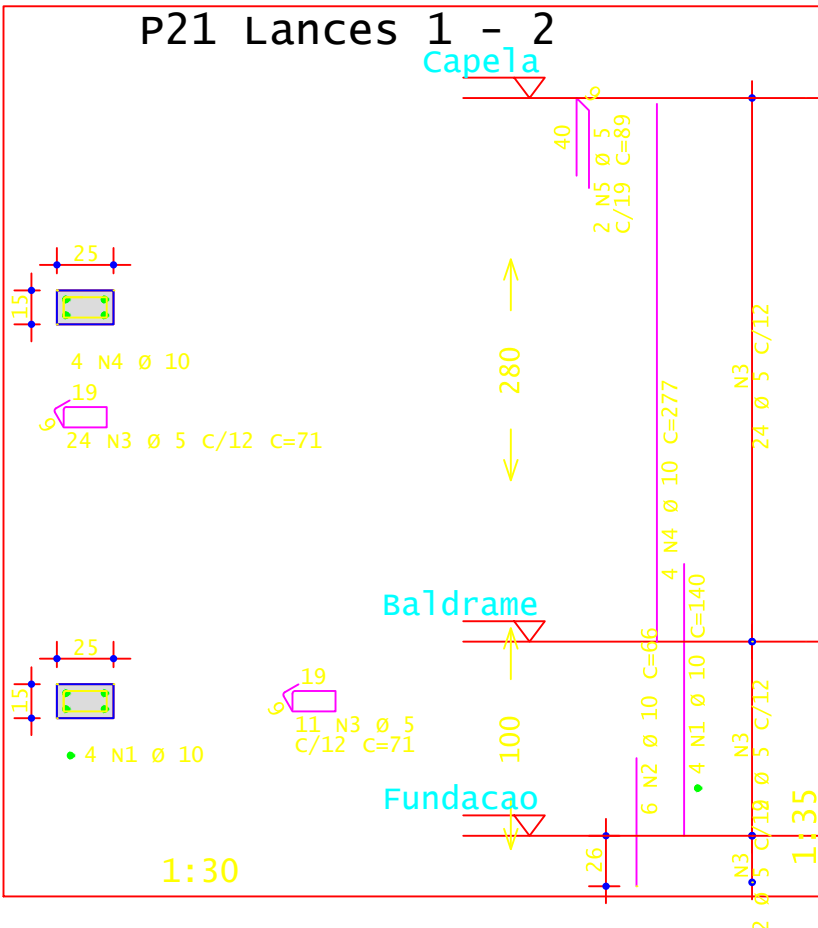
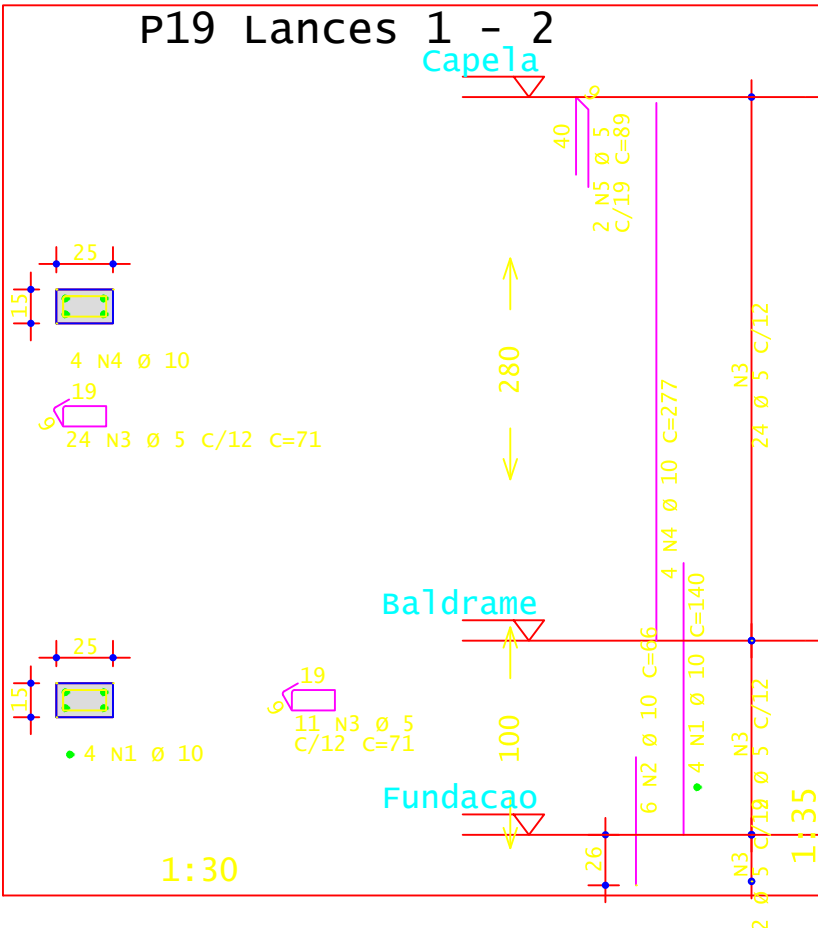
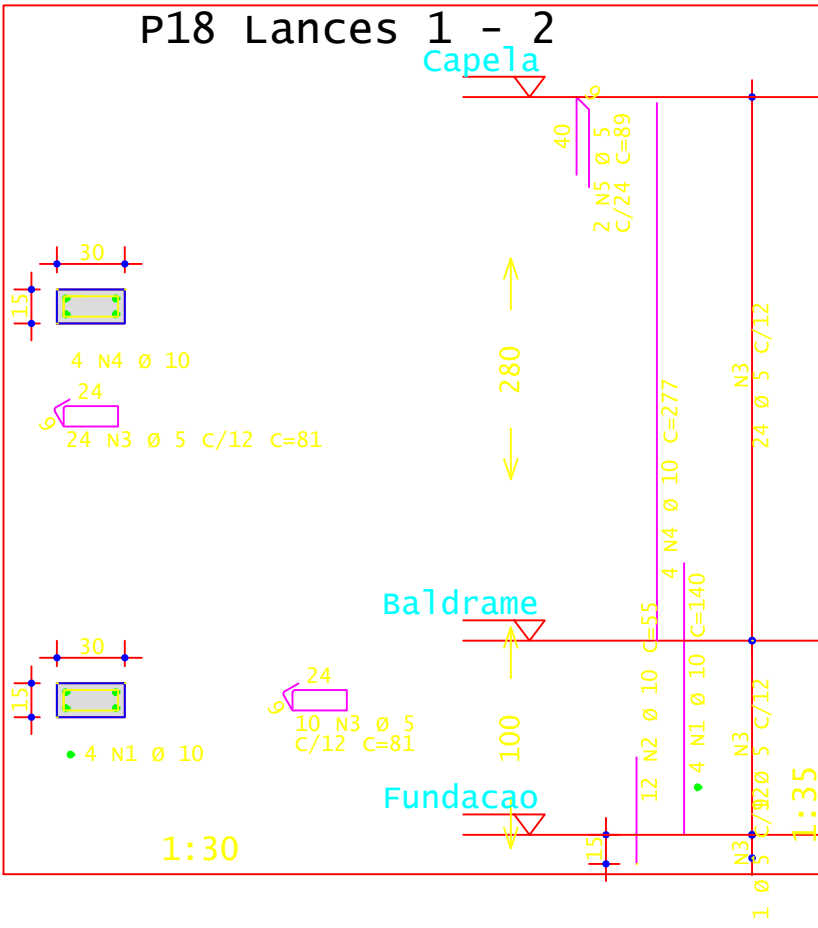
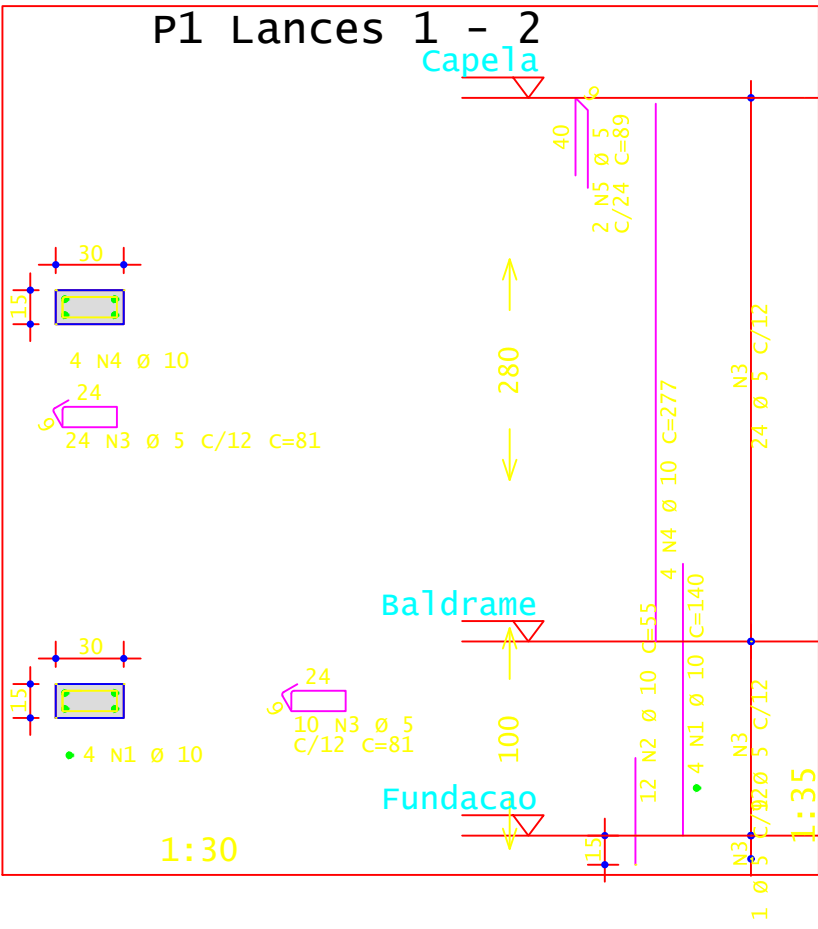
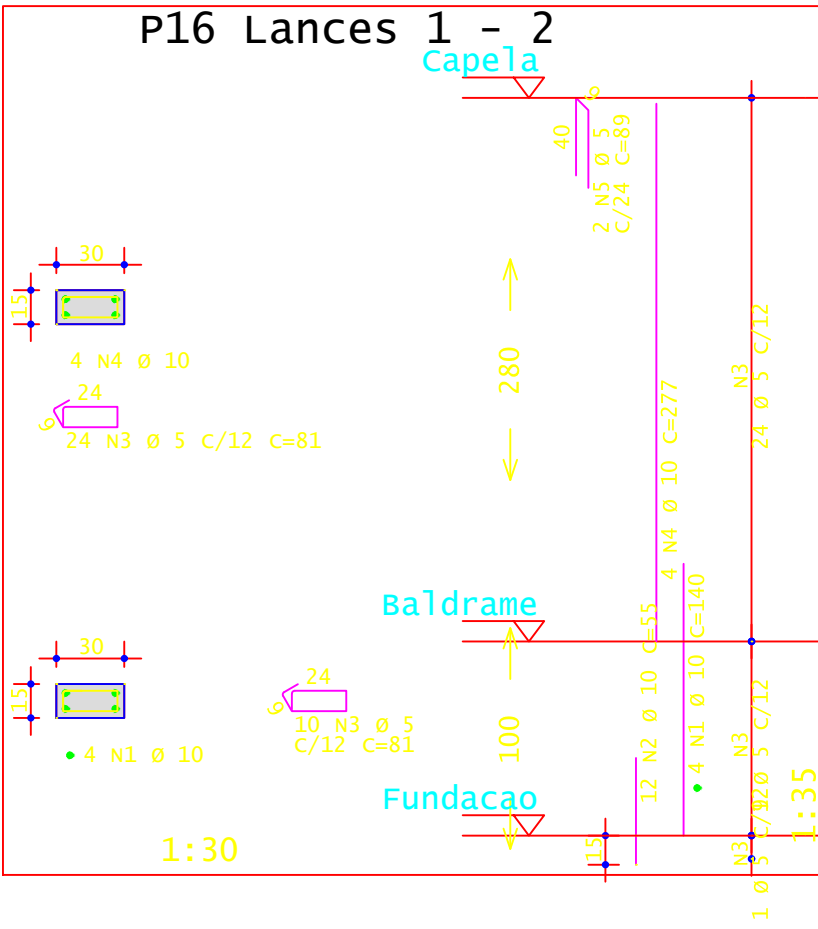
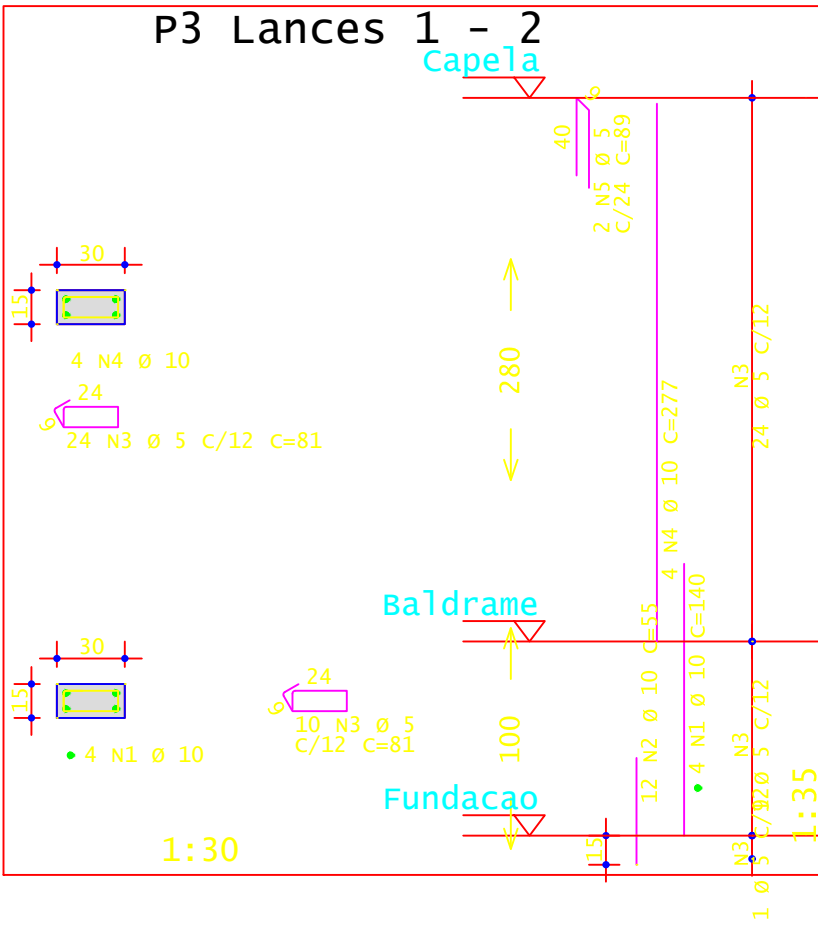
Rua Ervino Petry

Município:

Lagoa dos Tres Cantos - RS

Mais Terreno:

Est 1/4



AÇO	POS	BIT	QUANT	COMPRIMENTO	
				UNIT	TOTAL
		mm		cm	cm
P1 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P3 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P16 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P18 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	12	55	660
60A	3	5	34	81	2754
50A	4	10	4	277	1108
60A	5	5	2	89	178
P19 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	6	66	396
60A	3	5	35	71	2485
50A	4	10	4	277	1108
60A	5	5	2	89	178
P21 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	6	66	396
60A	3	5	35	71	2485
50A	4	10	4	277	1108
60A	5	5	2	89	178
P23 Lances 1 - 2					
50A	1	10	4	140	560
50A	2	10	6	66	396
60A	3	5	35	71	2485
50A	4	10	4	277	1108
60A	5	5	2	89	178

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	197	30
50A	10	155	96
Peso Total	60A =		30 kgf
Peso Total	50A =		96 kgf

Rua Ervino Petry
Lagoa dos Tres Cantos - RS
CEP: 99495-000
Fone: (54) 3392-1083

Lagoa dos Três Cantos

PREFEITURA MUNICIPAL

Obra: Ampliação de escola

Prancha: PILARES

Endereço: Rua Ervino Petry

Município: Lagoa dos Tres Cantos - RS

Mat. Terreno:

Proprietário: Sergio Antonio Lasch
Prefeito Municipal

Resp. Técnico: CESAR DOBLER
FINK:91226651020

Assinado de forma digital por CESAR DOBLER
FINK:91226651020
Dados: 2024.01.30 15:49:53 -03'00'

César Dobler Fink
Eng° Civil e Seg do Trabalho
CREA RS1231620

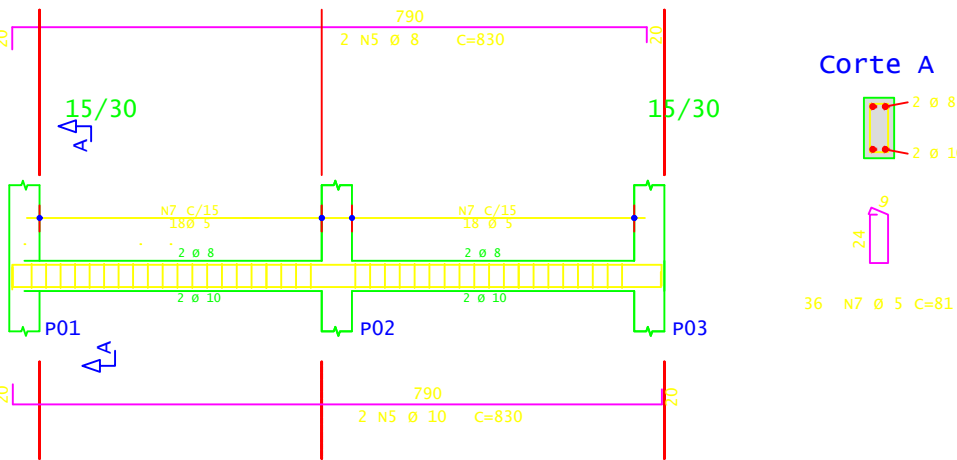
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Área: 102,55 m²

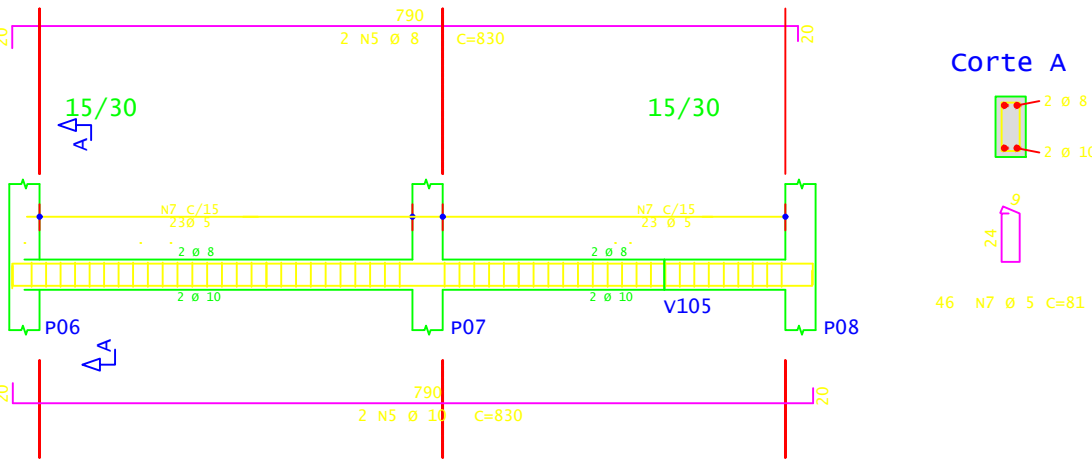
Data: Janeiro / 2024

Prancha: Est 2/4

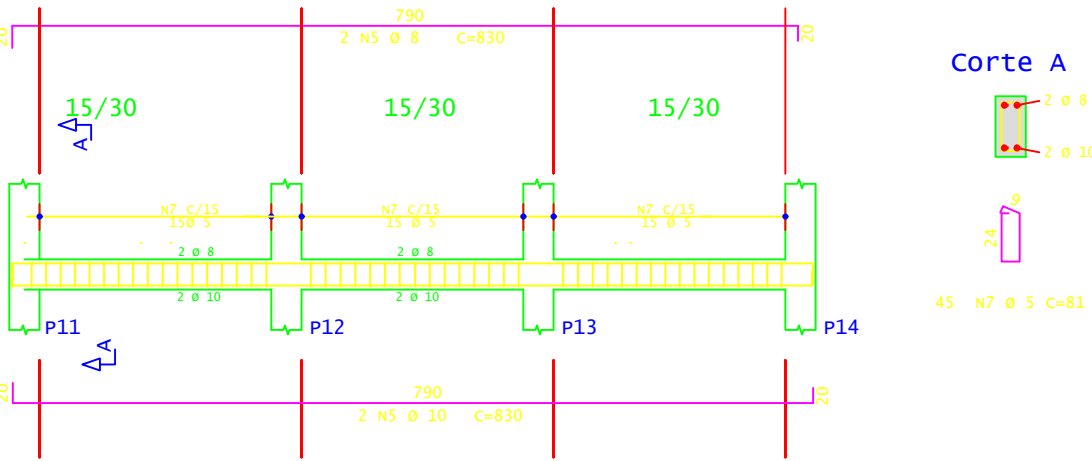
v101



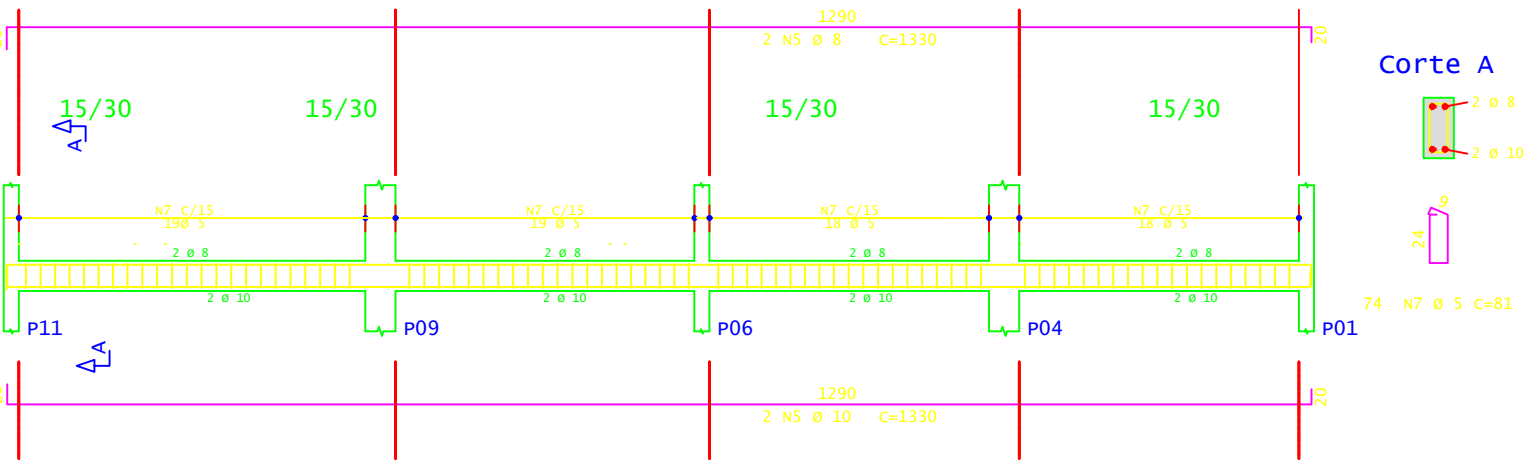
v102



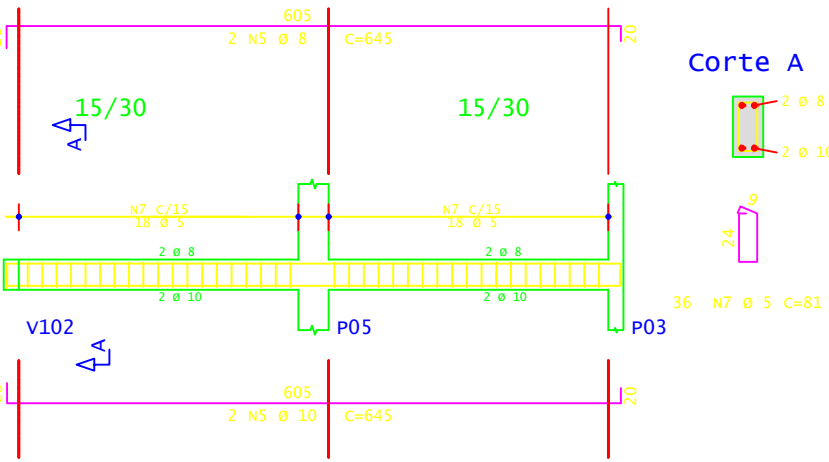
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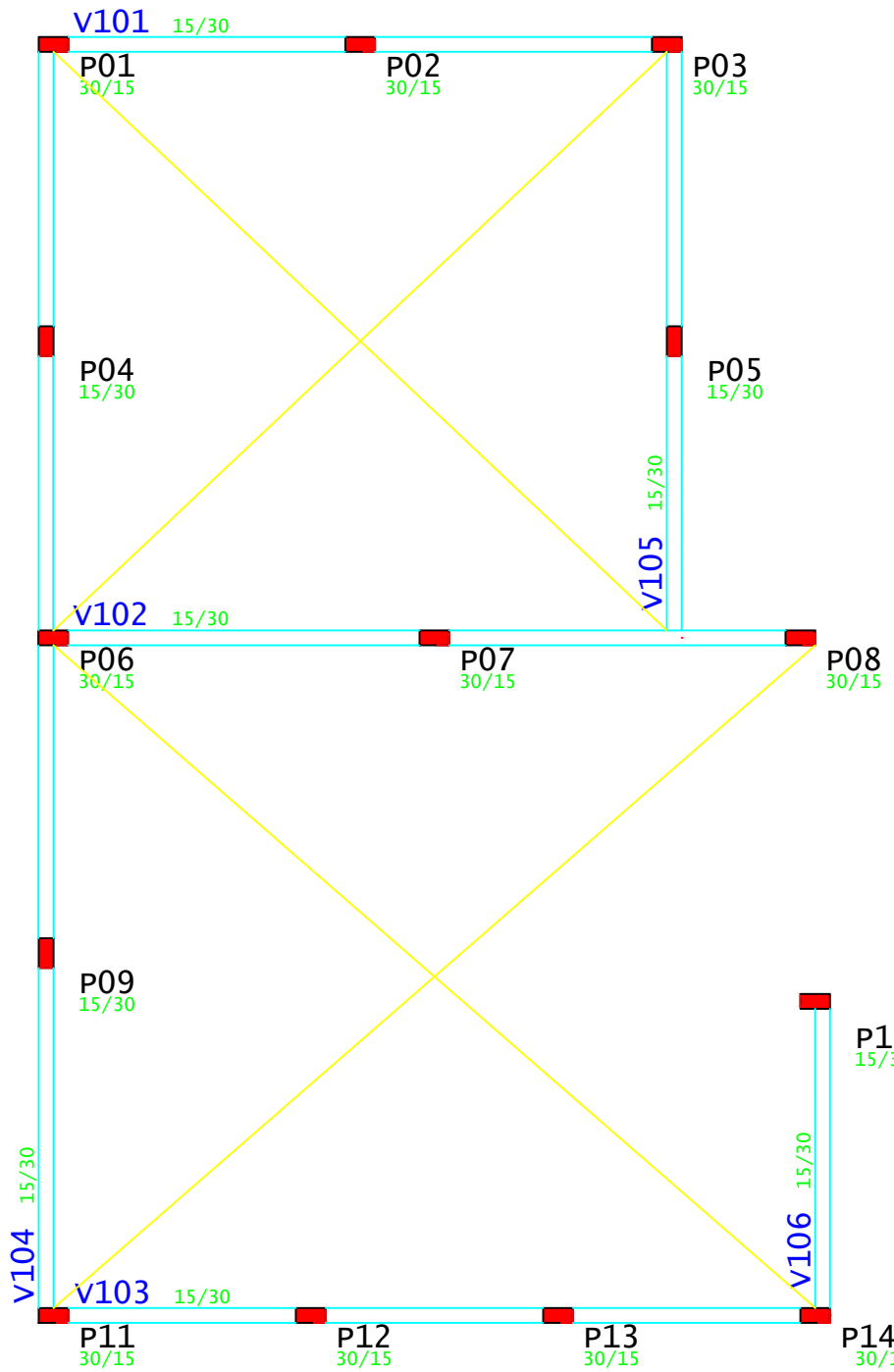
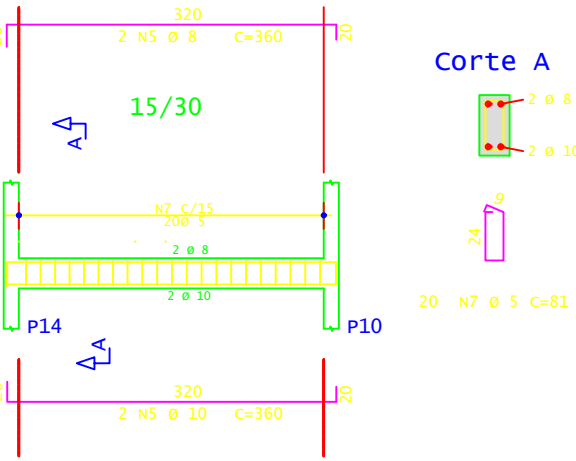
v104



v105



v106



Lagoa dos Três Cantos

PREFEITURA MUNICIPAL

Rua Ervino Petry
Lagoa dos Três Cantos - RS
CEP: 99495-000

Fone: (54) 3392-1083

Proprietário:

Sergio Antonio Lasch
Prefeito Municipal

Assinado de forma digital por CESAR DOBLER

FINK:91226651020
Dados: 2024.01.30 15:49:35 -03'00'

César Dobler Fink
Engº Civil e Seg do Trabalho
CREA RS1231620

Obra: Ampliação de escola

Prancha: PROJETO ESTRUTURAL

Endereço: Rua Ervino Petry

Município: Lagoa dos Tres Cantos - RS

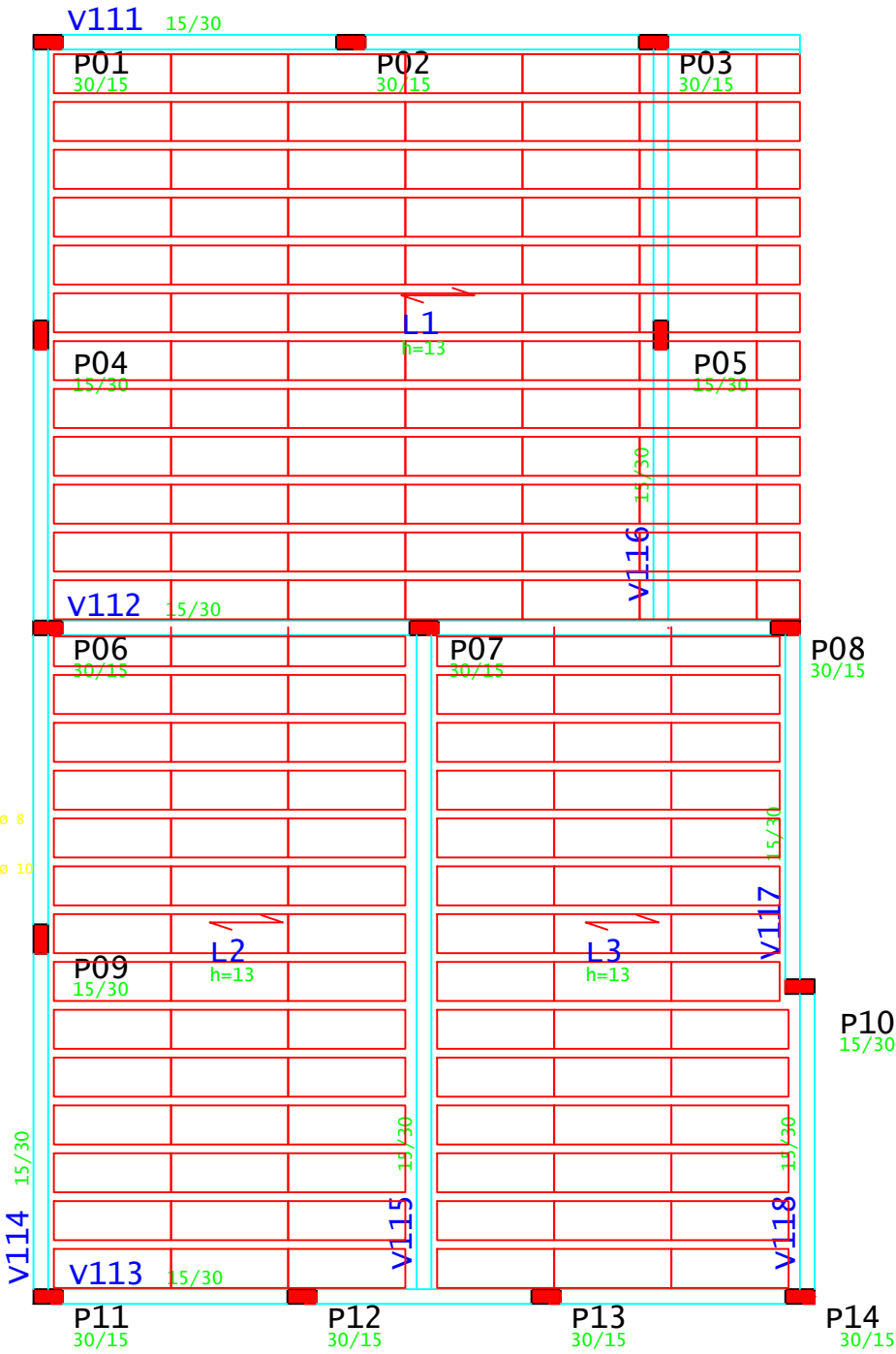
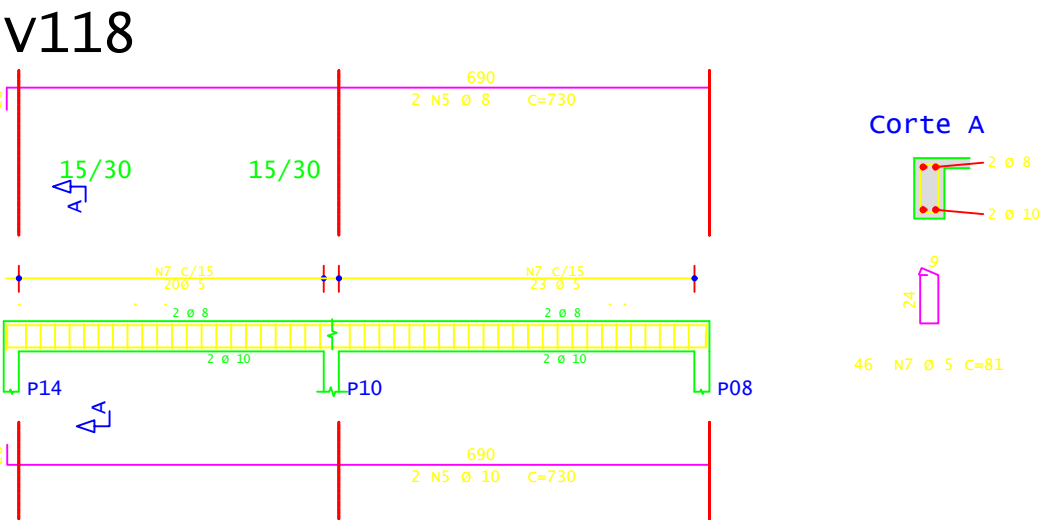
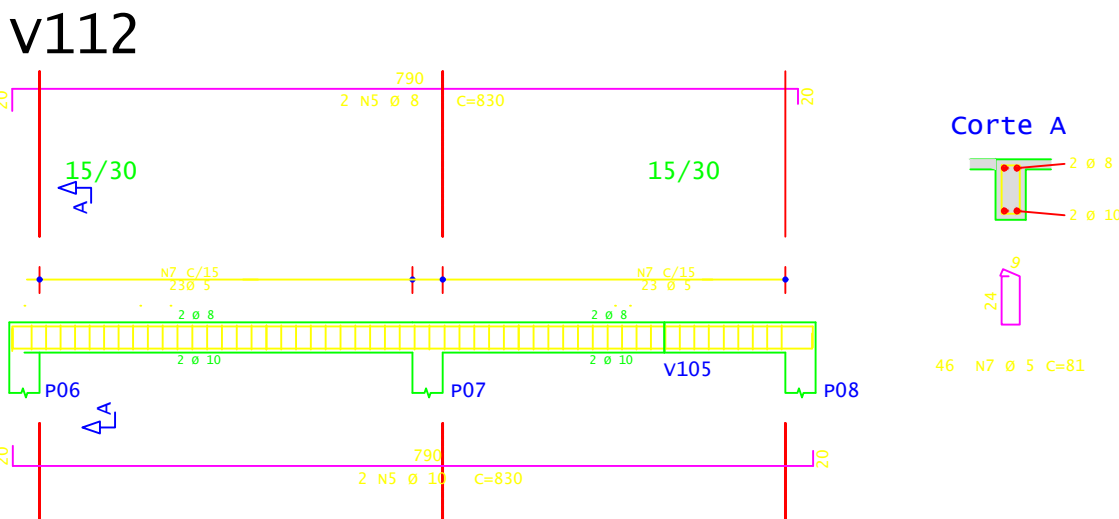
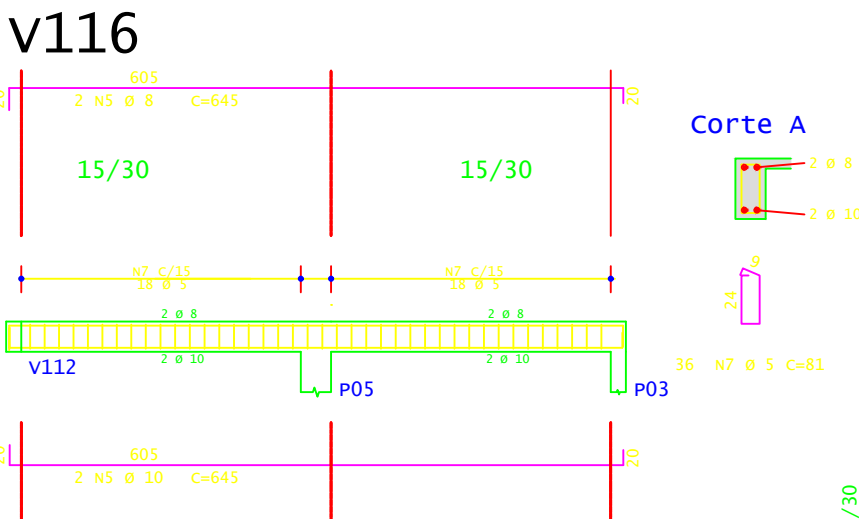
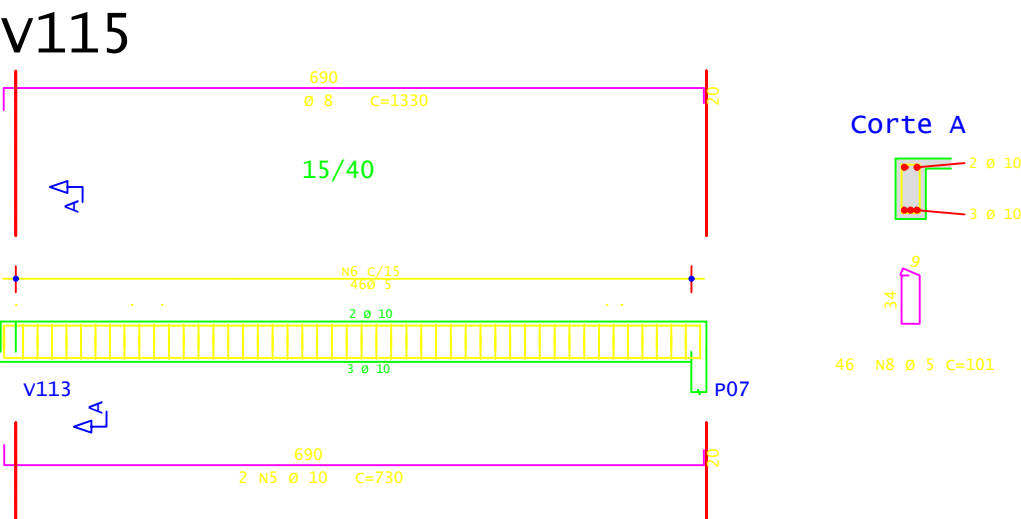
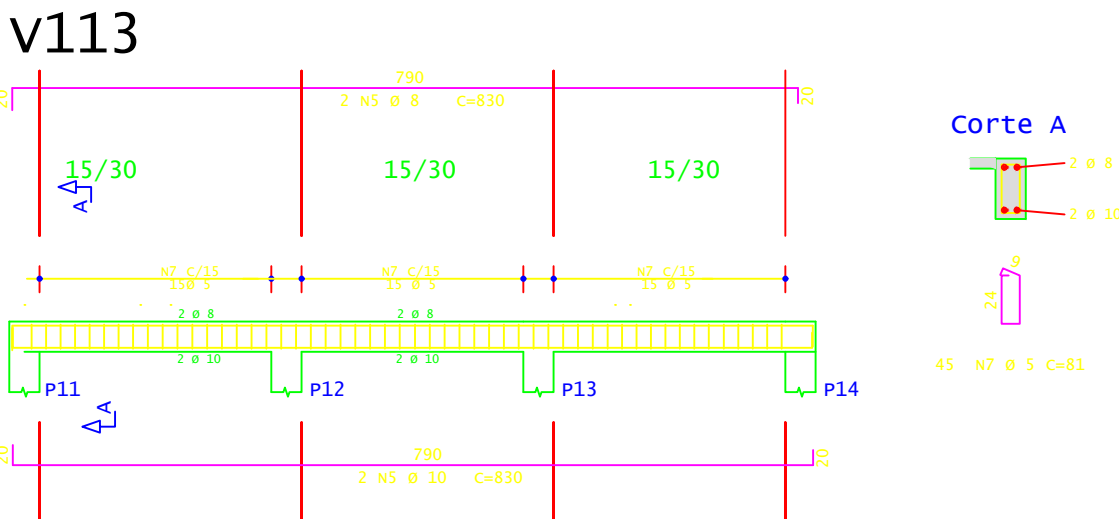
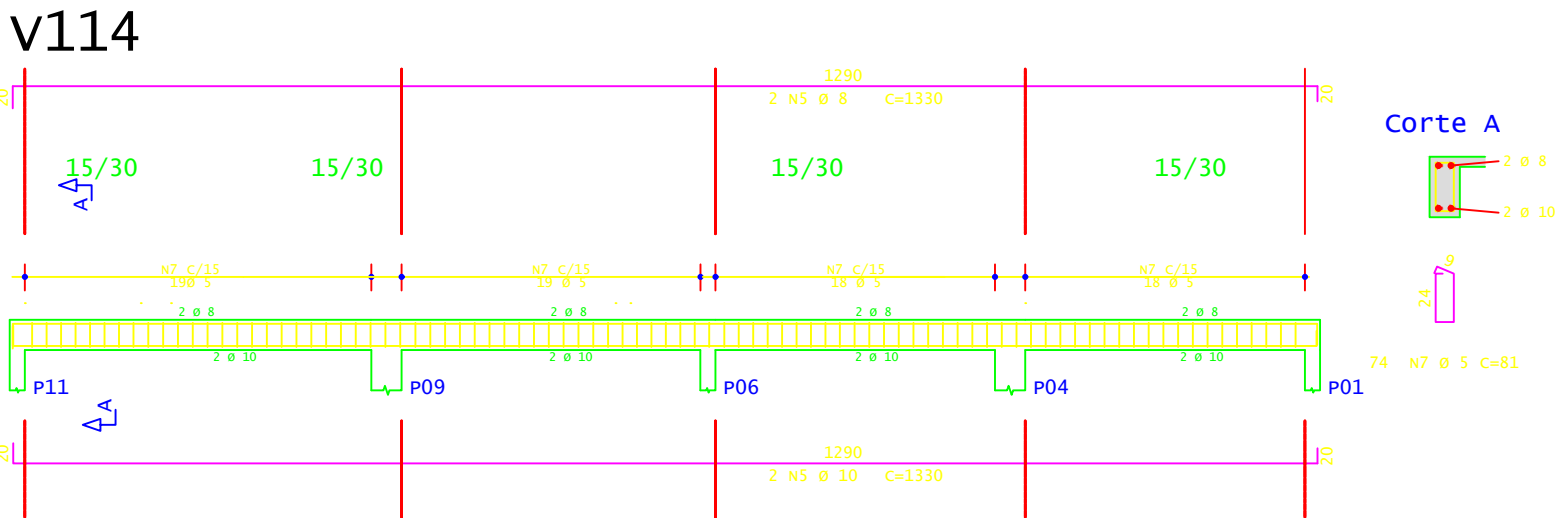
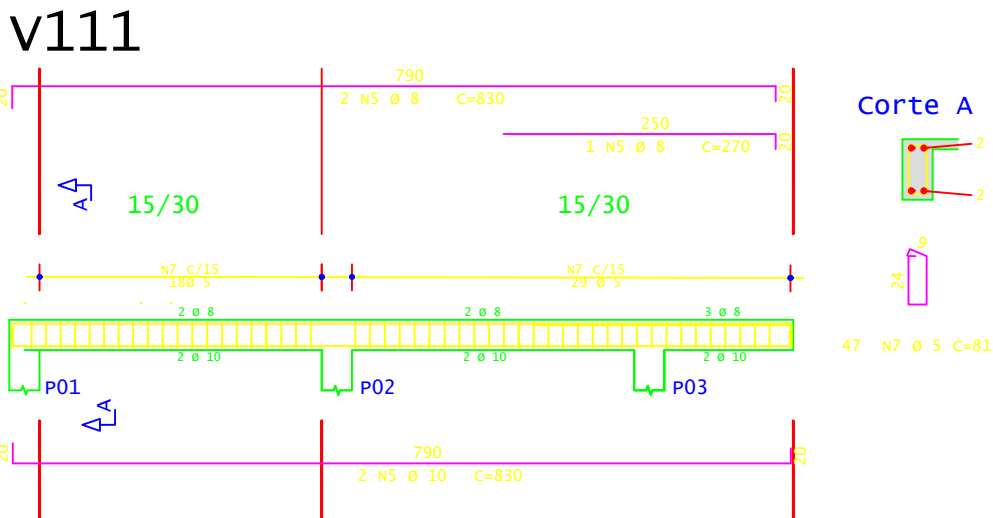
Mat. Terreno:

Escala: 1:00

Área: 102,55 m²

Data: Janeiro / 2024

Est
3/4





Lagoa dos Três Cantos
PREFEITURA MUNICIPAL

Rua Ervino Petry
Lagoa dos Tres Cantos - RS
CEP: 99495-000

Fone: (54) 3392-1083

Proprietário:

Sergio Antonio Lasch
Prefeito Municipal

Resp. Técnico:

CESAR DOBLER
FINK:91226651
020

Assinado de forma digital por CESAR DOBLER
FINK:91226651020
Dados: 2024.01.30 15:49:12 -03'00'

César Dobler Fink
Eng° Civil e Seg do Trabalho
CREA RS 1231620

Obra:

Ampliação de escola

Prancha:

PROJETO ESTRUTURAL

Endereço:

Rua Ervino Petry

Município:

Lagoa dos Tres Cantos - RS

Mat. Terreno:

Escala:

1:00

Área:

102,55 m²

Data:

Janeiro / 2024

Prancha:

Est 4/4