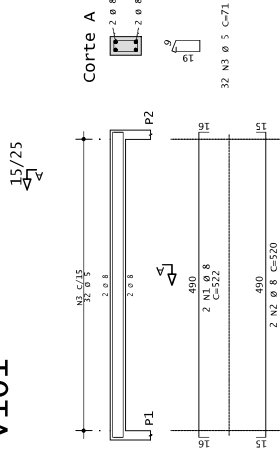
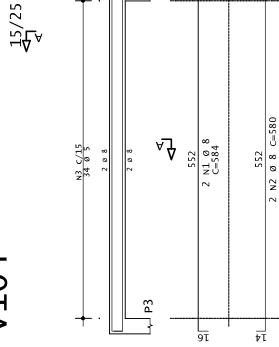


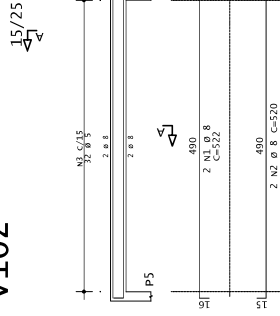
v101



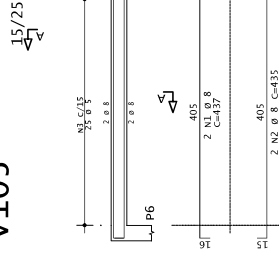
v104



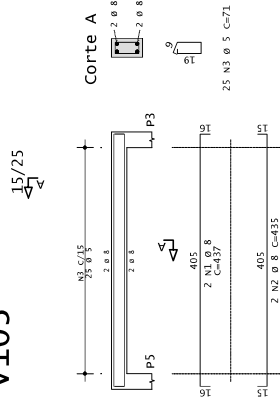
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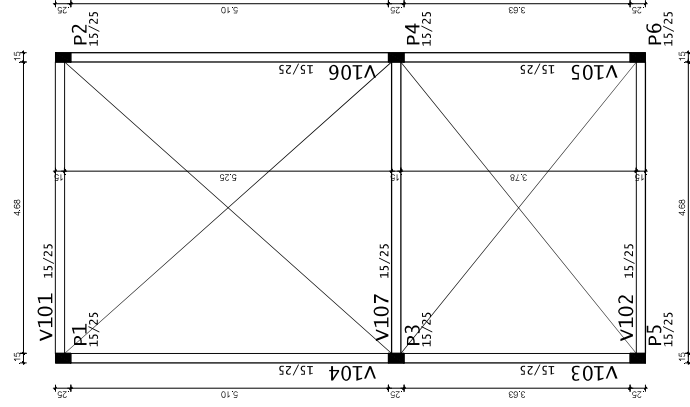
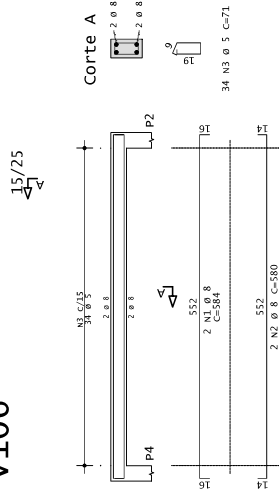
v105



v103



v106



AQO	POS	BIT	QUANT	COMPLEMENT	
				UNIT	TOTAL
		mm		cm	cm
V101	50A	1	8	2	522
	50A	2	8	2	522
	60A	5	32	71	2272
V102	50A	1	8	2	520
	50A	2	8	2	520
	60A	5	32	71	2272
V103	50A	1	8	2	437
	50A	2	8	2	437
	60A	5	32	71	1775
V104	50A	1	8	2	584
	50A	2	8	2	584
	60A	5	34	71	2414
V105	50A	1	8	2	437
	50A	2	8	2	437
	60A	5	32	71	1775
V106	50A	1	8	2	584
	50A	2	8	2	584
	60A	5	34	71	2414

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	129	20
50A	8	123	49
Peso Total		60A =	20 kgf
Peso Total		50A =	49 kgf

PREFEITURA MUNICIPAL DO RIO GRANDE
GABINETE DE PROGRAMAS E PROJETOS ESPECIAIS



COZINHA NOVA
Planta de Fôrmas e Armação das Cintas de Amarração
Rua Jovem Ailton Porto Alegre, 79 | Cassino | Ri-Grande - RS

PROJETO ESTRUTURAL

GIOVANA CORVO DA TRINDADE
Chefe de Gabinete - GPPE

CAROLINE AVEIRO QUADRADO
Secretária Adjunta GPP-E-CREAR/S 202895

GPPE
08.2025

08/08

4.50

V1

V2

V3

V4

V5

V6

V7

V8

V9

V10

V11

V12

V13

V14

V15

V16

V17

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V363

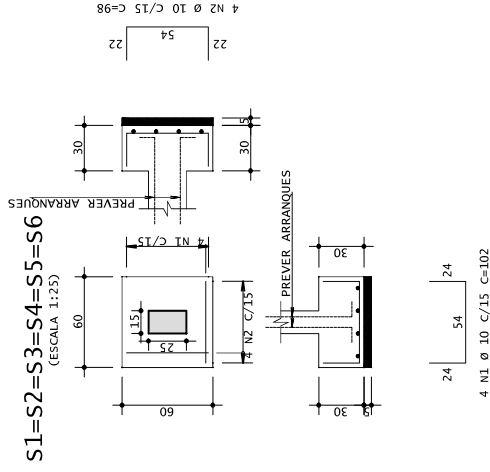
V364

V365

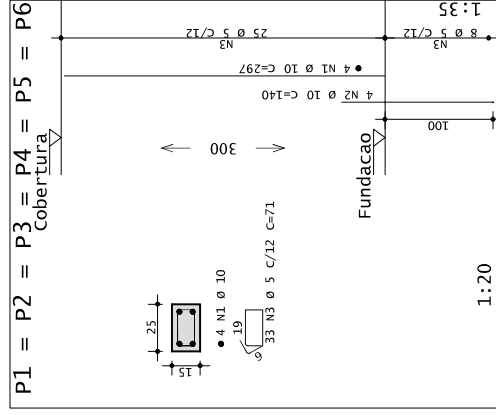
V366

V367

Planta de Armação de Sapatas



Planta de Armação de Pilares



AÇO	POS	BIT	QUANT	COMPIMENTO		
				UNIT	TOTAL	
		mm		cm	cm	
S1	50A	1	10	4	102	408
	50A	2	10	4	98	392
S2	50A	1	10	4	102	408
	50A	2	10	4	98	392
S3	50A	1	10	4	102	408
	50A	2	10	4	98	392
S4	50A	1	10	4	102	408
	50A	2	10	4	98	392
S5	50A	1	10	4	102	408
	50A	2	10	4	98	392
S6	50A	1	10	4	102	408
	50A	2	10	4	98	392

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	10	48	30
Peso Total			50A = 30 kgf

ACO	POS	BIT	QUANT	COMPRIMENTO UNIT	TOTAL
		mm		cm	cm
P1 Lance 1	50A	1	10	4	1188
	50A	2	10	4	560
	60A	3	5	33	71
P2 Lance 1	50A	1	10	4	297
	50A	2	10	4	140
	60A	3	5	33	71
P3 Lance 1	50A	1	10	4	297
	50A	2	10	4	140
	60A	3	5	33	71
P4 Lance 1	50A	1	10	4	297
	50A	2	10	4	140
	60A	3	5	33	71
P5 Lance 1	50A	1	10	4	297
	50A	2	10	4	140
	60A	3	5	33	71
P6 Lance 1	50A	1	10	4	297
	50A	2	10	4	140
	60A	3	5	33	71

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	141	22
50A	10	105	65
Peso Total		60A =	22 kgf
Peso Total		50A =	65 kgf

PREFEITURA MUNICIPAL DO RIO GRANDE
GABINETE DE PROGRAMAS E PROJETOS ESPECIAIS



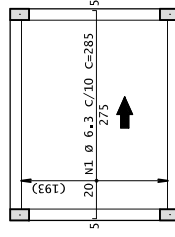
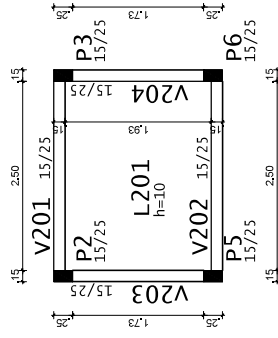
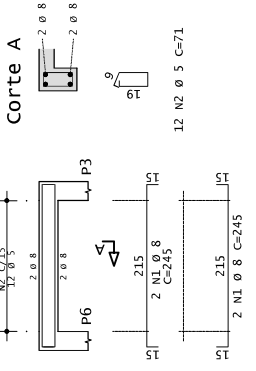
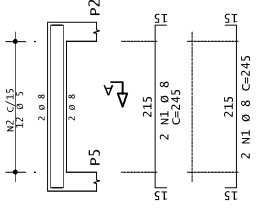
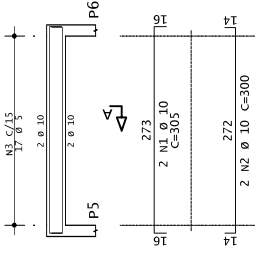
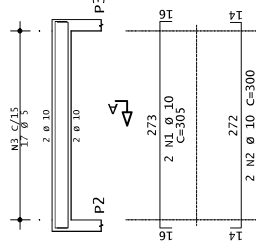
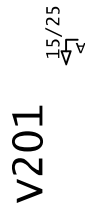
COZINHA NOVA
Planta de Armação das Sapatas e Pilares
Rua Jovem Airton Porto Alegre, 79 | Cassino | Rio Grande - RS

PROJETO ESTRUTURAL

GPPE
08.2025

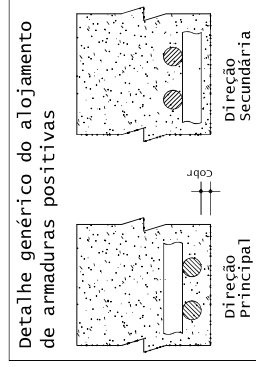
JOVIANA CORVO DA TRINDADE
 Chefe de Gabinete - GPPE

CAROLINE AVEIRO OLIMPRADO
 Secretária Adjunta GPPE - CH/AN/202020



ACO	POS	BIT	QUANT	COMPRIMENTO
		mm		UNIT cm
				cm
Reservatório – Armadura positiva principal	50A	1	20	285
	50A	6,3	20	570
	50A	1	20	570
Reservatório – Armadura positiva secundária	50A	1	26	226
	50A	6,3	26	5876
	50A	1	26	5876
V201	50A	1	10	2
	50A	2	10	305
	60A	3	17	71
V202	50A	1	10	2
	50A	2	10	305
	60A	3	17	71
V203	50A	1	10	2
	50A	2	10	305
	60A	3	17	71
V204	50A	1	8	4
	50A	2	5	245
	60A	2	12	71
V205	50A	1	8	4
	50A	2	5	245
	60A	2	12	71

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
60A	5	41	6
50A	6,3	116	28
50A	8	20	8
50A	10	24	15
Peso Total		60A =	6 kgf
Peso Total		50A =	51 kgf



PREFEITURA MUNICIPAL DO RIO GRANDE
GABINETE DE PROGRAMAS E PROJETOS ESPECIAIS



BANHEIRO NOVO

Planta de Fôrmas e Armação das Vigas e Laje do Reservatório

Rua Jovem Ailton Porto Alegre, 791 | Cassino | Rio Grande - RS

PROJETO ESTRUTURAL

GPE
08.2025

GIOVANA CORVO DA TRINDADE
Chefe de Gabinete - GPPE

CAROLINE AVEIRO QUADRADO
Secretaria Adjunta GPPE-CREARS.202895

05/08

1.50

V101

15/25

15/25

15/25

15/25

V102

15/25

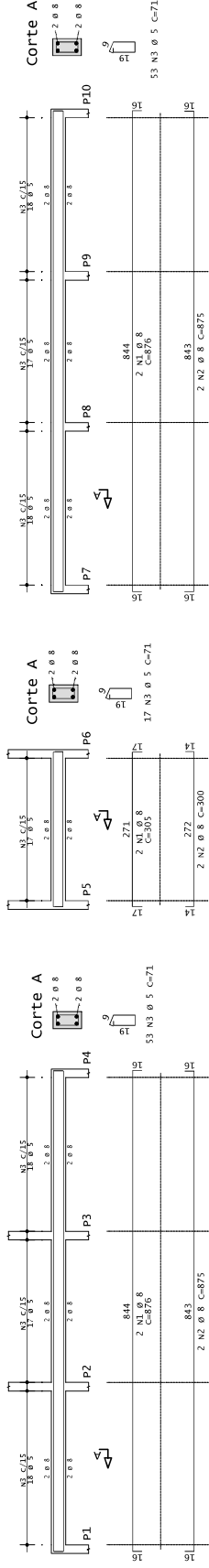
15/25

15/25

V103

15/25

15/25



V104

15/25

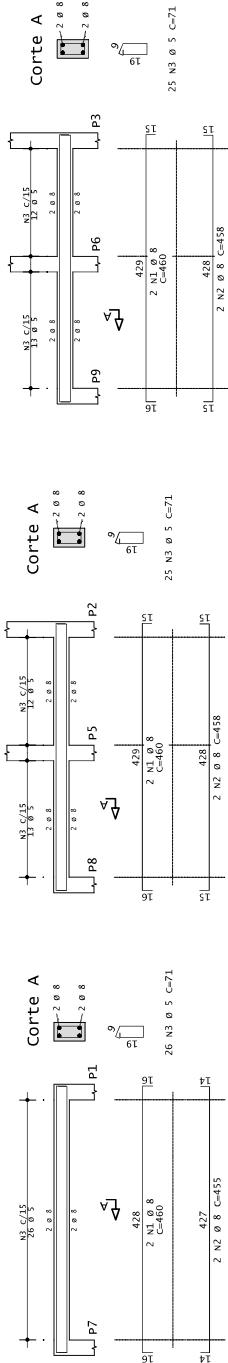
V105

15/25

V106

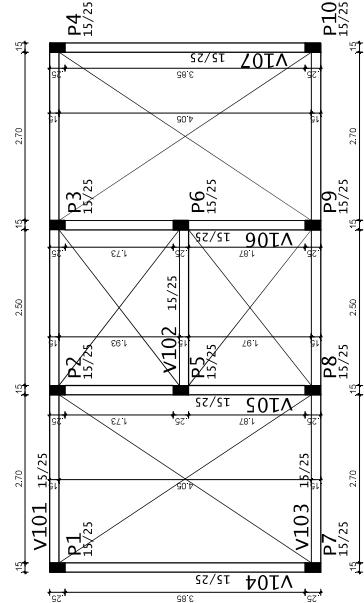
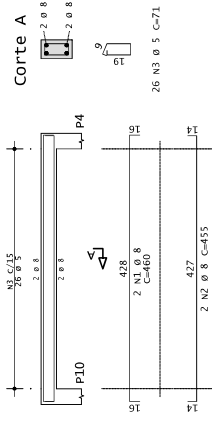
15/25

15/25



V107

15/25



AÇO	POS	BIT	QUANT	COMPRIMENTO	
				UNIT	TOTAL
V101	50A	1	8	2	876
	50A	2	8	2	875
	60A	3	5	53	71
V102	50A	1	8	2	305
	50A	2	8	2	300
	60A	3	5	17	71
V103	50A	1	8	2	876
	50A	2	8	2	875
	60A	3	5	53	71
V104	50A	1	8	2	460
	50A	2	8	2	455
	60A	3	5	26	71
V105	50A	1	8	2	460
	50A	2	8	2	458
	60A	3	5	25	71
V106	50A	1	8	2	460
	50A	2	8	2	458
	60A	3	5	25	71
V107	50A	1	8	2	920
	50A	2	8	2	910
	60A	3	5	26	71

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
60A	mm	m	kgf
50A	8	160	25
Peso Total	60A = 135		61
Peso Total	50A =		25 kgf
Peso Total	50A =		61 kgf

PREFEITURA MUNICIPAL DO RIO GRANDE

GABINETE DE PROGRAMAS E PROJETOS ESPECIAIS

BANHEIRO NOVO
Planta de Fôrmas e Armacão das Cintas de Amarração
Rua Jovens Artistas Porto Alegre, 79 | Casalino | Rio Grande - RS



PROJETO ESTRUTURAL

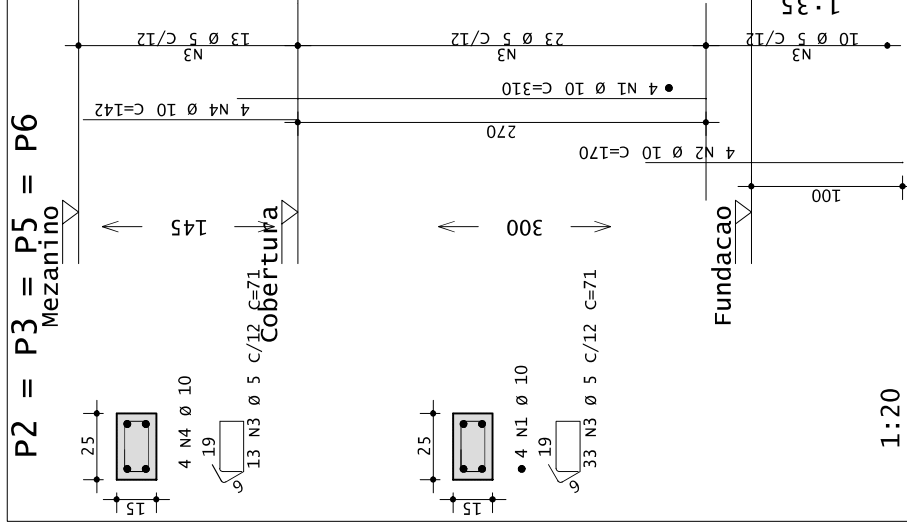
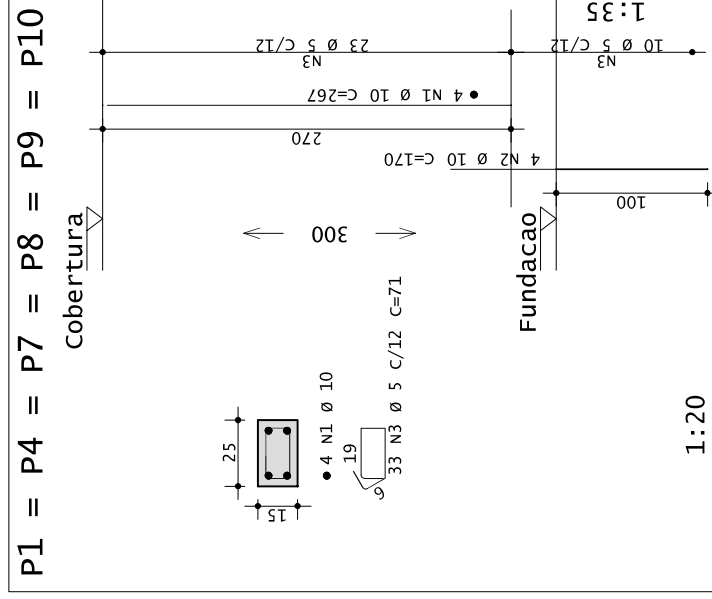
GIDVANA CORVO DA TRINDADE
Cadastrado em 04/08/2025 - CPT

CAROLINE AVEIRO ZALUARDO
Solicitada em 04/08/2025 - CPT

GPPF
08.2025

04/08

1:50

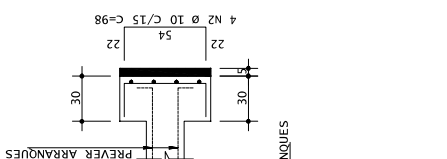
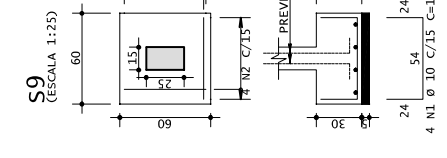
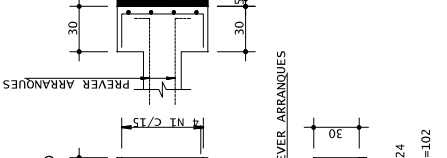
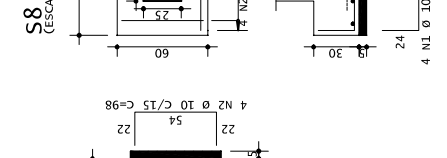
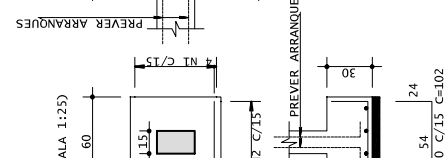
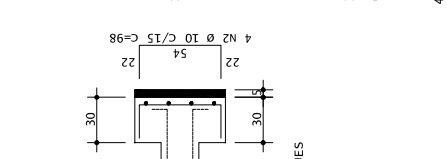
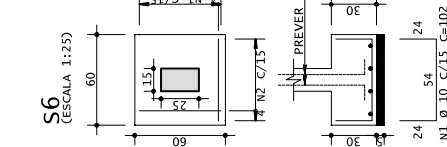
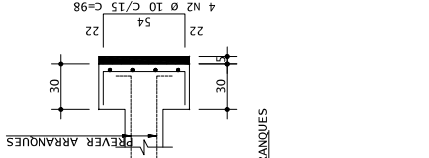
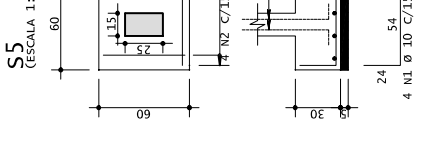
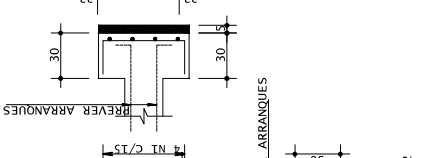
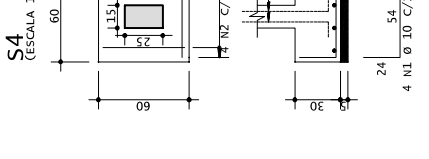
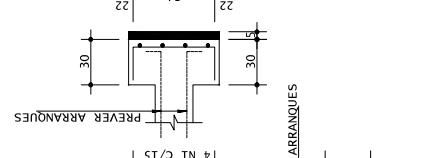
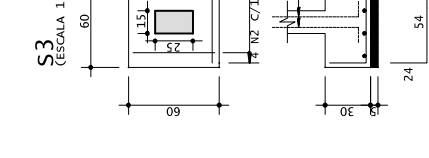
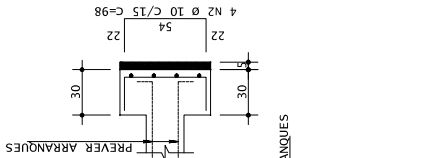
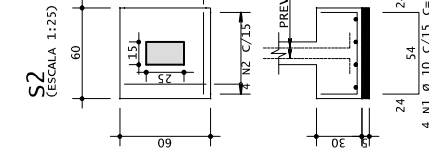
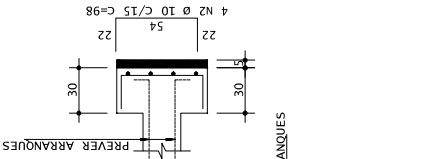
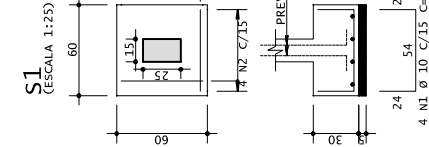


RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	271	42
50A	10	204	126
Peso Total		60A =	42 kgf
Peso Total		50A =	126 kgf

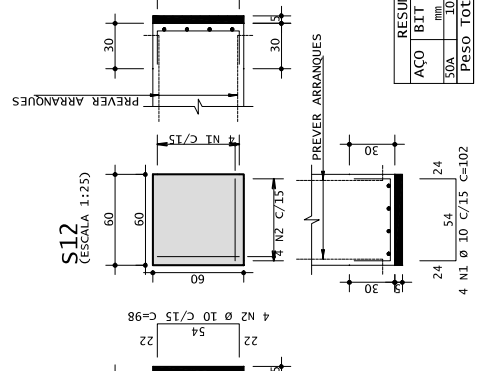
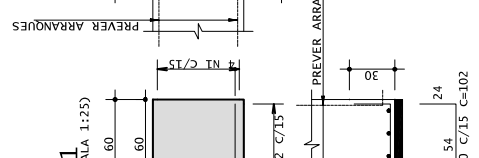
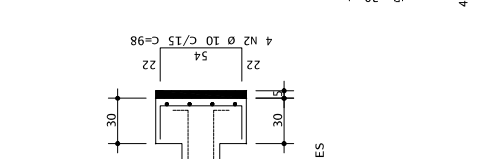
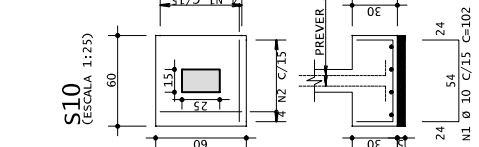
AÇO	POS	BIT	QUANT	COMPRIMENTO	
				UNIT	TOTAL
				mm	cm
P1 Lance 1					
50A	1	10	4	267	1068
50A	2	10	4	170	680
60A	3	5	33	71	2343
P2 Lances 1 - 2					
50A	1	10	4	310	1240
50A	2	10	4	170	680
60A	3	5	46	71	3266
50A	4	10	4	142	568
P3 Lances 1 - 2					
50A	1	10	4	310	1240
50A	2	10	4	170	680
60A	3	5	46	71	3266
50A	4	10	4	142	568
P4 Lance 1					
50A	1	10	4	267	1068
50A	2	10	4	170	680
60A	3	5	33	71	2343
P5 Lances 1 - 2					
50A	1	10	4	310	1240
50A	2	10	4	170	680
60A	3	5	46	71	3266
50A	4	10	4	142	568

AÇO	POS	BIT	QUANT	COMPRIMENTO	
				UNIT	TOTAL
P6 Lances 1 - 2					
50A	1	10	4	310	1240
50A	2	10	4	170	680
60A	3	5	46	71	3266
60A	4	10	4	142	568
P7 Lance 1					
50A	1	10	4	267	1068
50A	2	10	4	170	680
60A	3	5	33	71	2343
P8 Lance 1					
50A	1	10	4	267	1068
50A	2	10	4	170	680
60A	3	5	33	71	2343
P9 Lance 1					
50A	1	10	4	267	1068
50A	2	10	4	170	680
60A	3	5	33	71	2343
P10 Lance 1					
50A	1	10	4	267	1068
50A	2	10	4	170	680
60A	3	5	33	71	2343





AÇO	POS	BIT	QUANT	COMPLEMENTO	
				mm	cm
S1	50A	1	10	4	408
	50A	2	10	4	98
S2	50A	1	10	4	98
	50A	2	10	4	98
S3	50A	1	10	4	98
	50A	2	10	4	98
S4	50A	1	10	4	98
	50A	2	10	4	98
S5	50A	1	10	4	98
	50A	2	10	4	98
S6	50A	1	10	4	98
	50A	2	10	4	98
S7	50A	1	10	4	98
	50A	2	10	4	98
S8	50A	1	10	4	98
	50A	2	10	4	98
S9	50A	1	10	4	98
	50A	2	10	4	98
S10	50A	1	10	4	98
	50A	2	10	4	98
S11	50A	1	10	4	98
	50A	2	10	4	98
S12	50A	1	10	4	98
	50A	2	10	4	98



RESUMO DE AÇO		
AÇO	BLT	PESO
50A	mm	kgf
50A	10	96
50A	2	59
Peso Total		50A = 59 kgf

PREFEITURA MUNICIPAL DO RIO GRANDE

GABINETE DE PROGRAMAS E PROJETOS ESPECIAIS



BANHEIRO NOVO
Planta de Armação das Sapatas
Rua Jovem Airton Porto Alegre, 79 | Cassino | Rio Grande - RS

PROJETO ESTRUTURAL

GIOVANA CORVO DA TRINDADE
Chefe de Gabinete - GPPE

GPPE
08.2025

CAROLINE AVEIRO QUADRADO
Secretaria Adjunta GPPE-CREATES 2026/5

01/08

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