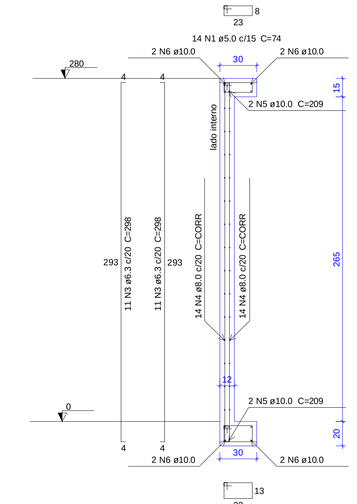
Relação do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
PAR1	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	22	298	6556
	CA50	4	8.0	28	CORR	6048
	CA50	5	10.0	4	209	836
	CA50	6	10.0	8	CORR	1728
PAR2	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5768
	CA50	5	10.0	4	199	796
	CA50	6	10.0	8	CORR	1648
PAR3	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	228	4560
	CA50	4	8.0	22	CORR	4532
	CA50	5	10.0	4	199	796
	CA50	6	10.0	8	CORR	1648
PAR4	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	158	3160
	CA50	4	8.0	14	CORR	2884
	CA50	5	10.0	4	199	796
	CA50	6	10.0	8	CORR	1648
PAR5	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	88	1760
	CA50	4	8.0	8	CORR	1648
	CA50	5	10.0	4	199	796
	CA50	6	10.0	8	CORR	1648
PAR6	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	22	298	6556
	CA50	4	8.0	28	CORR	5880
	CA50	5	10.0	4	203	812
	CA50	6	10.0	8	CORR	1680
PAR7	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	228	4560
	CA50	4	8.0	22	CORR	4664
	CA50	5	10.0	4	205	820
	CA50	6	10.0	8	CORR	1696
PAR8	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	228	4560
	CA50	4	8.0	22	CORR	4532
	CA50	5	10.0	4	199	796
	CA50	6	10.0	8	CORR	1648
PAR9	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	158	3160
	CA50	4	8.0	14	CORR	2968
	CA50	5	10.0	4	205	820
	CA50	6	10.0	8	CORR	1696
PAR10	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	158	3160
	CA50	4	8.0	14	CORR	2884
	CA50	5	10.0	4	199	796
	CA50	6	10.0	8	CORR	1648
PAR11	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	88	1760
	CA50	4	8.0	8	CORR	1648
	CA50	5	10.0	4	199	796
	CA50	6	10.0	8	CORR	1648
PAR12	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	22	298	6556
	CA50	4	8.0	28	CORR	6020
	CA50	5	10.0	4	208	832
	CA50	6	10.0	8	CORR	1720
PAR13	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR14	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR15	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR16	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR17	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR18	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR19	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR20	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR21	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR22	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR23	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5908
	CA50	5	10.0	4	204	816
	CA50	6	10.0	8	CORR	1688
PAR24	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	20	298	5960
	CA50	4	8.0	28	CORR	5936
	CA50	5	10.0	4	205	820
	CA50	6	10.0	8	CORR	1696
PAR25	CA60	1	5.0	14	74	1036
	CA60	2	5.0	14	84	1176
	CA50	3	6.3	22	298	6556
	CA50	4	8.0	28	CORR	6020
	CA50	5	10.0	4	123	832
	CA50	6	10.0	8	CORR	1720
PAR1-PAR25 (70.0)	CA50	1	8.0	4	123	492
	CA50	2	8.0	4	117	468
PAR6-PAR12 (70.0)	CA50	1	8.0	4	116	464
	CA50	2	8.0	4	123	492
PAR1-PAR25 (140.0)	CA50	1	8.0	4	123	492
	CA50	2	8.0	4	117	468
PAR1-PAR25 (210.0)	CA50	1	8.0	4	123	492
	CA50	2	8.0	4	117	468
PAR1-PAR25 (280.0)	CA50	1	8.0	4	123	492
	CA50	2	8.0	4	117	468
PAR6-PAR12 (140.0)	CA50	1	8.0	4	116	464
	CA50	2	8.0	4	123	492
PAR6-PAR12 (210.0)	CA50	1	8.0	4	116	464
	CA50	2	8.0	4	123	492
PAR6-PAR12 (280.0)	CA50	1	8.0	4	116	464
	CA50	2	8.0	4	123	492

Resumo do aço

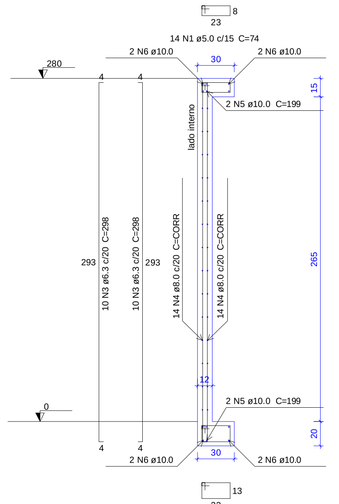
AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	1303.9	319.1
	8.0	1340.9	529.1
	10.0	623.6	384.5
CA60	5.0	553	85.2
PESO TOTAL			
CA50	1232.6		
CA60	85.2		

Vol. de concreto total (C-30) = 18.64 m³
Área de forma total = 282.19 m²



PAR1

ESC 1:25



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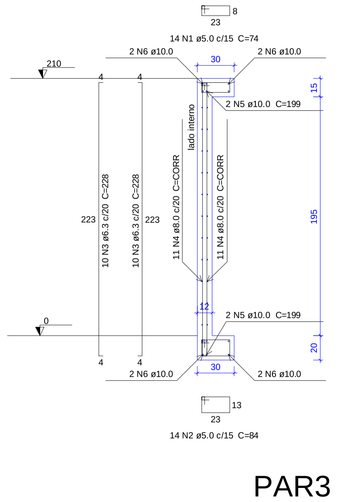

PAR3

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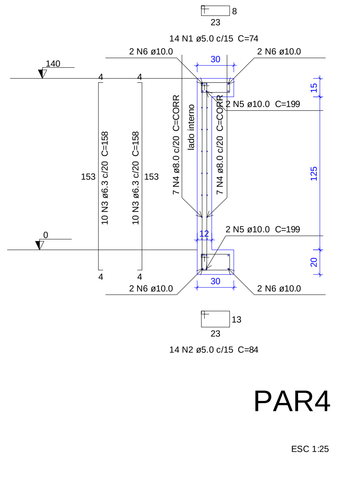
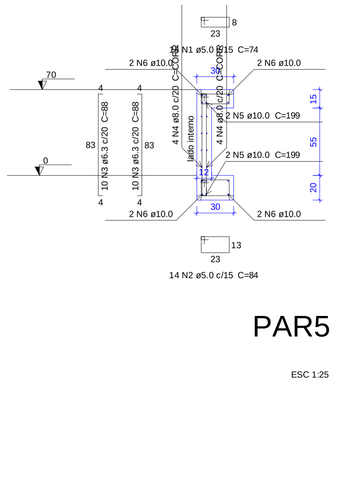


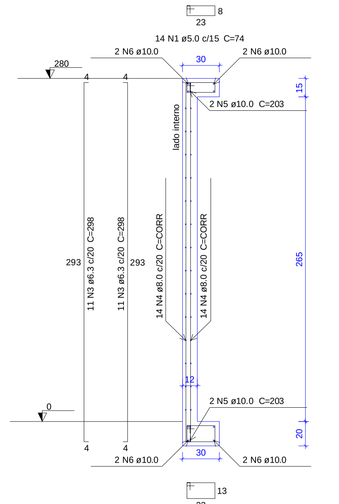
PAR4

ESC 1:25



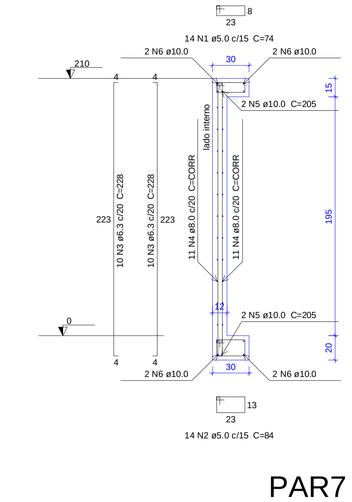
PAR5

ESC 1:25



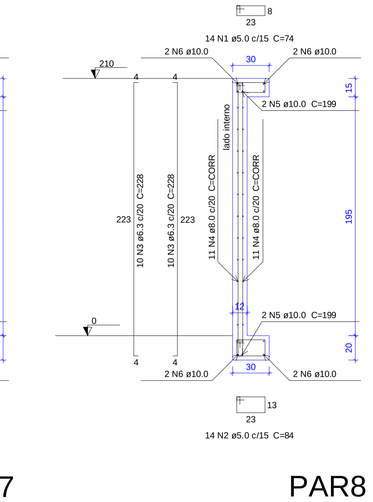
PAR6

ESC 1:25



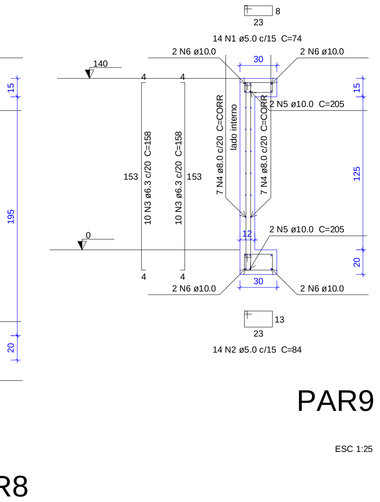
PAR7

ESC 1:25



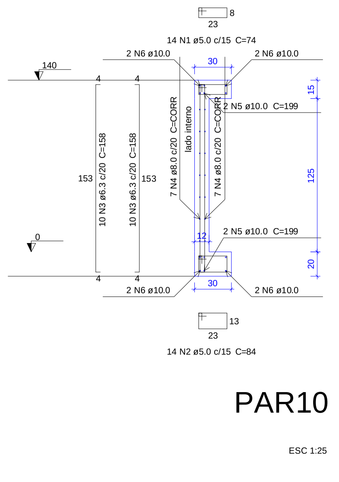
PAR8

ESC 1:25



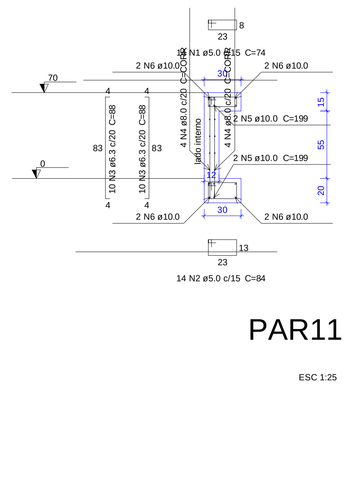
PAR9

ESC 1:25



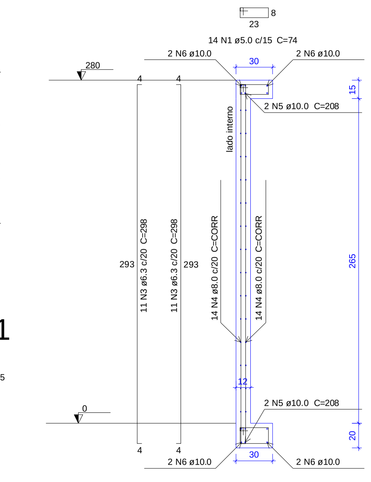
PAR10

ESC 1:25



PAR11

ESC 1:25



PAR12

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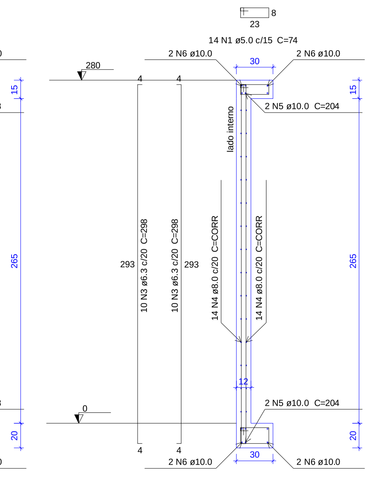

PAR13

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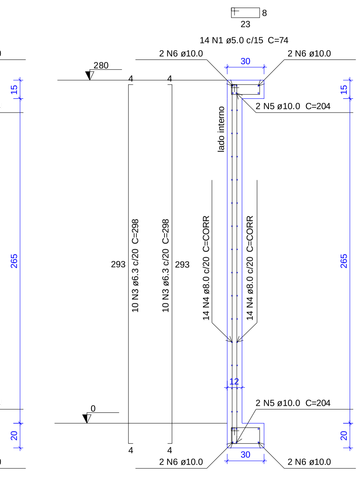
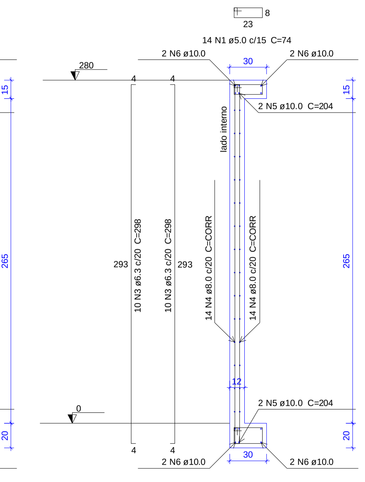


PAR14

ESC 1:25



PAR15

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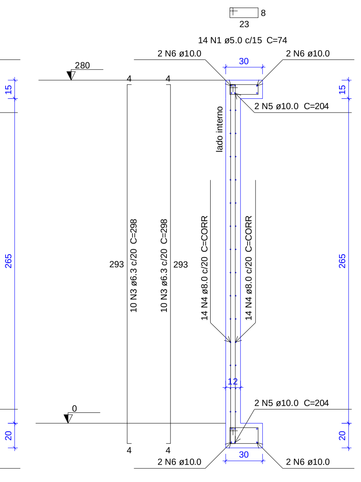
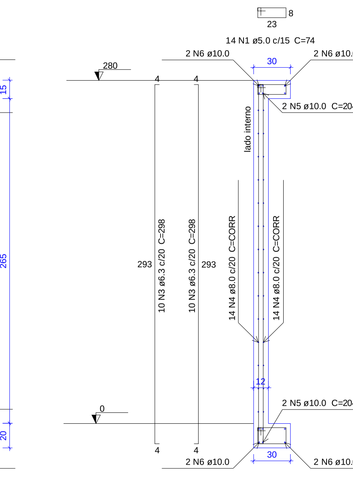


PAR16

ESC 1:25



PAR17

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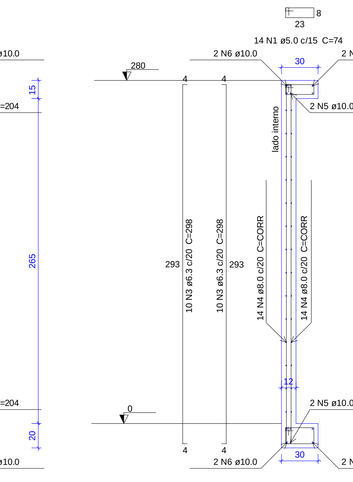
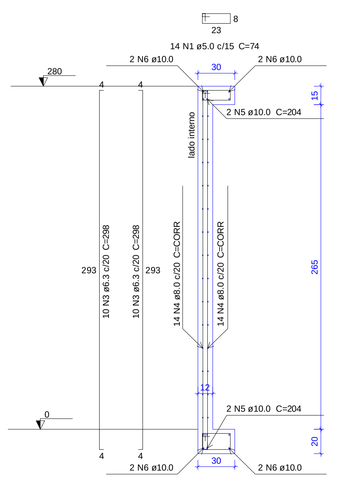


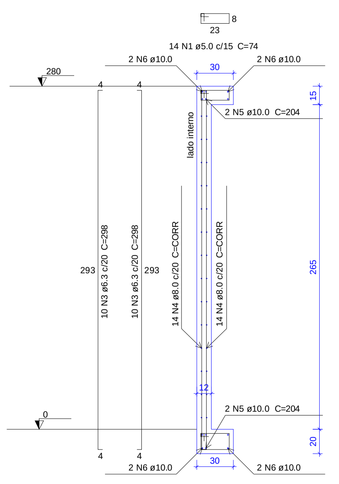
PAR18

ESC 1:25



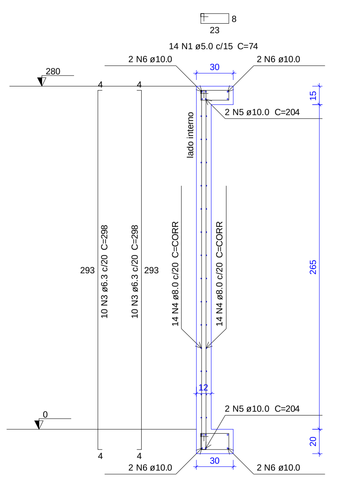
PAR19

ESC 1:25



PAR20

ESC 1:25



PAR21

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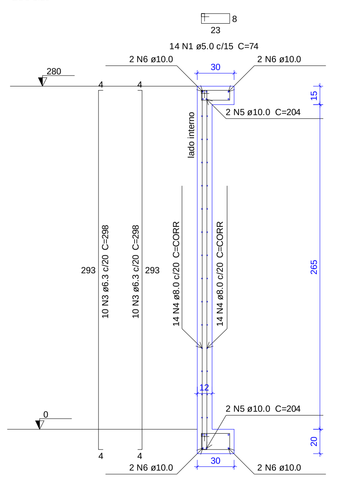

PAR22

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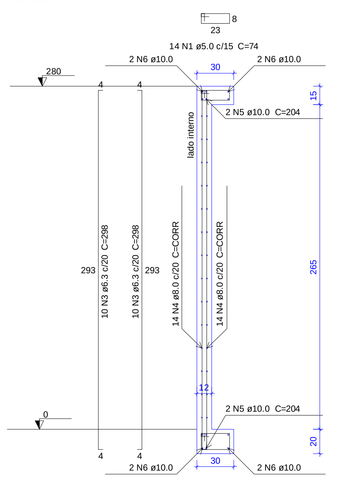

PAR23

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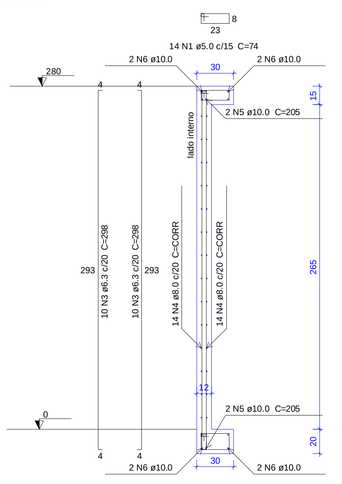
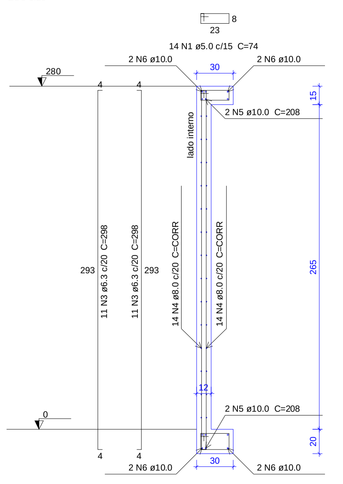


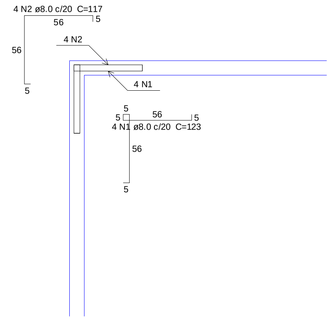
PAR24

ESC 1:25



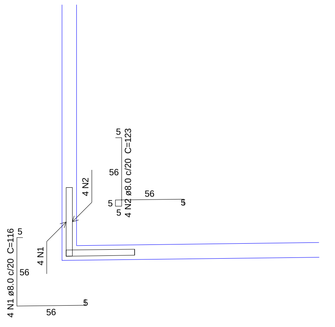
PAR25

ESC 1:25



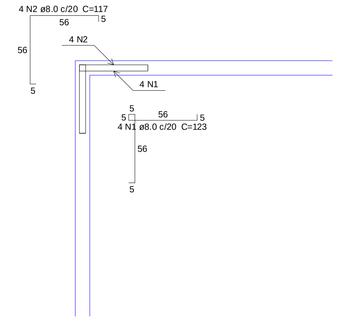
PAR1-PAR25 (70.0)

escala 1:25



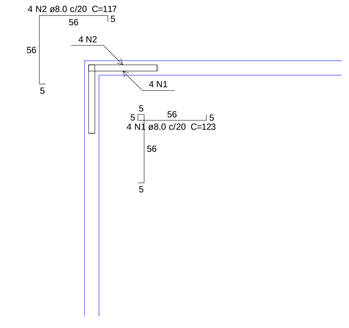
PAR6-PAR12 (70.0)

escala 1:25



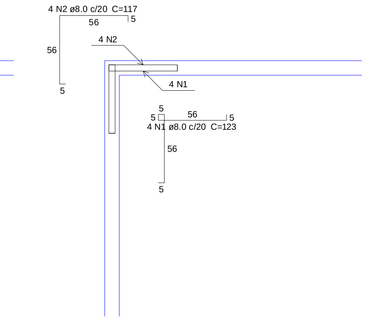
PAR1-PAR25 (140.0)

escala 1:25



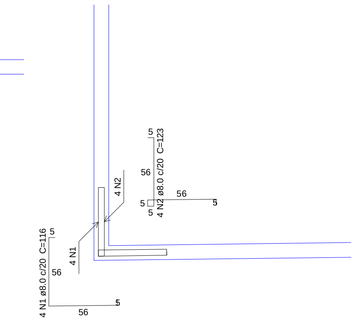
PAR1-PAR25 (210.0)

escala 1:25



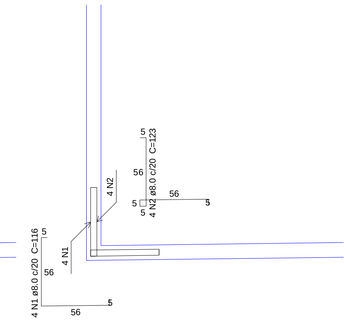
PAR1-PAR25 (280.0)

escala 1:25



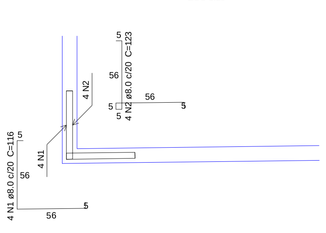
PAR6-PAR12 (140.0)

escala 1:25



PAR6-PAR12 (210.0)

escala 1:25



PAR6-PAR12 (280.0)

escala 1:25

NOTAS:

DESENHO ENVIADO DATA: 17/04/2017				
☐ PARA APROVAÇÃO				
☐ PARA ORÇAMENTO				
☐ PARA EXECUÇÃO	00	17/04/2017	PARA EXECUÇÃO	GILSON
☐	REVISÃO	DATA	DESCRIÇÃO	DES. GILSON VERIF.

GILSON JOSÉ GUIDOTTI Engº civil CREA 5069715818
FELIPE LUIZ MORETTI Engº civil CREA 5069737669

RESPONSÁVEL

ART Nº. _____ CPF:

Alpha & Ômega
CONSULTORIA & PROJETOS

ENGº - FELIPE LUIZ MORETTI CREA 5069737669
ENGº - GILSON JOSÉ GUIDOTTI CREA 5069715818
eng.aec@outlook.com.br

Cliente: CODEN

Obra: ETA SANTO ANGELO - MURO DE ARRIMO

Endereço/Unidade: NOVA ODESSA - SP

Descrição: PROJETO ESTRUTURAL
PLANTA DE FORMAS DAS PAREDES DE CONTENÇÃO

des. FELIPE L.M. 17/04/18
aprov. GILSON J.G. 17/04/18
Projeto: CONCRETO

DESENHO Nº: AO005-04_EX_EC_F5_R00

rev. 00 | folha 05/06

DIREITOS AUTORAIS DE PROJETO CONFORME ART. 184 CÓD. PENAL LEI Nº 5988

FORMATO: A0 1189X841mm