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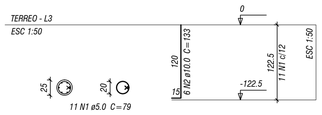

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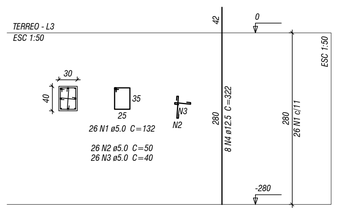

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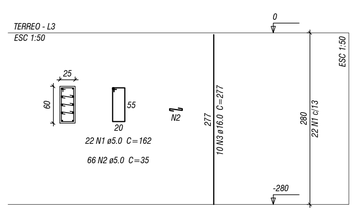

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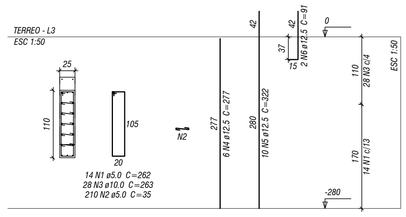

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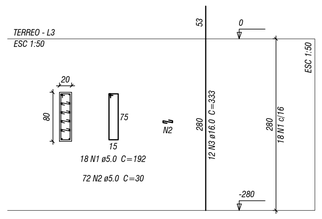

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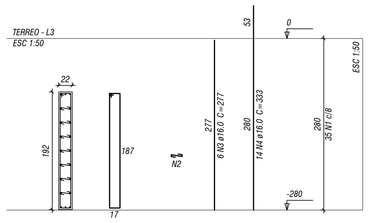

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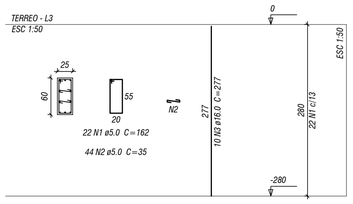

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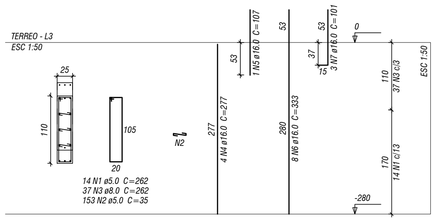

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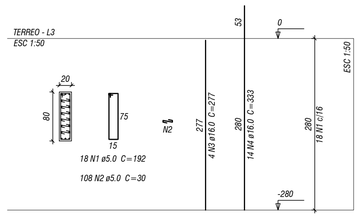

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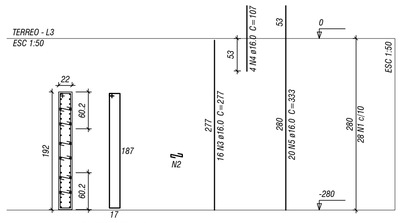

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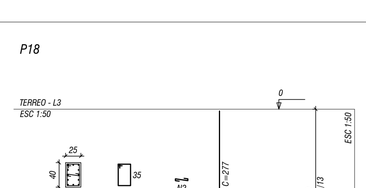

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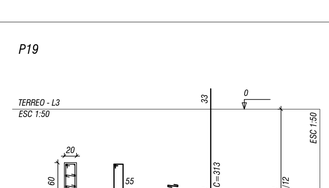

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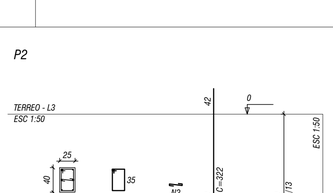

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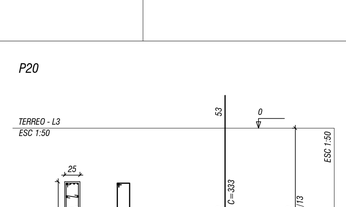

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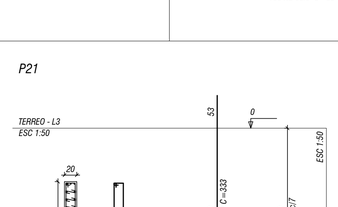

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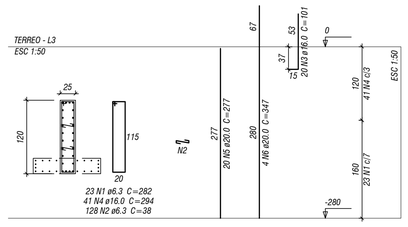

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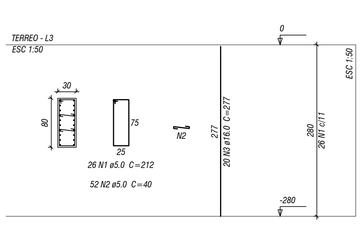

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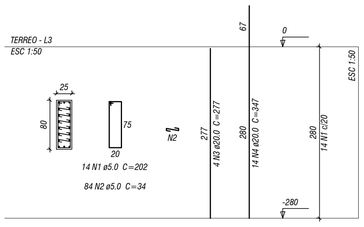

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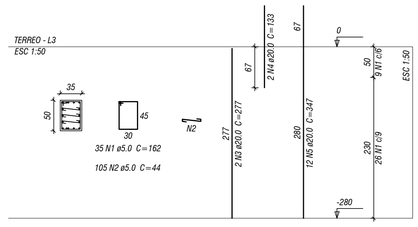

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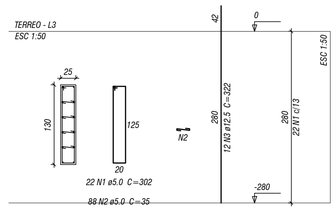

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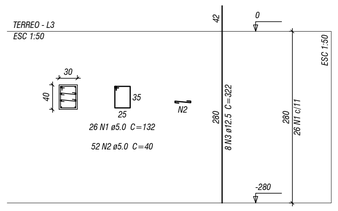

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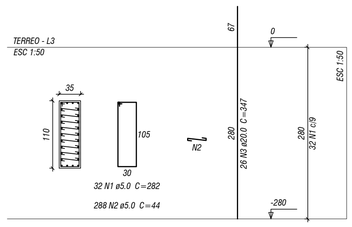

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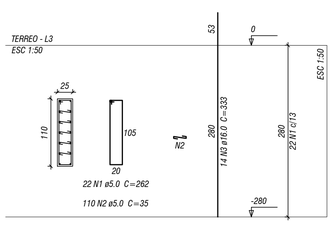

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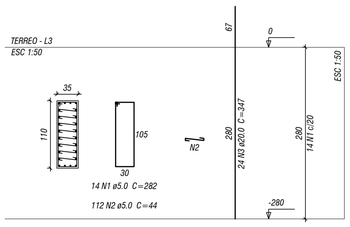

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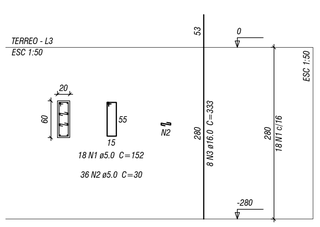

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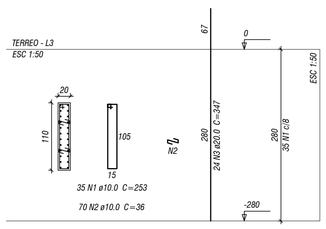

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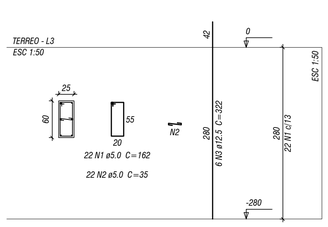

PENAS PARA PLOTAGEM

COR	PENA Nº	ESPESSURA
1 (red)	0,25	0,10
2 (yellow)	7	0,22
3 (green)	7	0,10
4 (cyan)	7	0,50
5 (blue)	7	0,60
6 (magenta)	7	0,40
7 (white)	7	0,22

COR	PENA Nº	ESPESSURA
1 (red)	0,25	0,10
2 (yellow)	7	0,22
3 (green)	7	0,10
4 (cyan)	7	0,50
5 (blue)	7	0,60
6 (magenta)	7	0,40
7 (white)	7	0,22

Relação do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
6xEGLP-1	CA60	1	5.0	66	79	5214
	CA50	2	10.0	36	133	4788
P1	CA60	1	5.0	26	132	3432
	CA60	2	5.0	26	50	1300
	CA60	3	5.0	26	40	1040
	CA50	4	12.5	8	322	2576
P2	CA60	1	5.0	22	122	2684
	CA60	2	5.0	22	35	770
	CA50	3	12.5	8	322	1932
P3	CA60	1	5.0	26	132	3432
	CA60	2	5.0	52	40	2080
	CA50	3	12.5	8	322	2576
P4	CA60	1	5.0	32	282	9024
	CA60	2	5.0	288	44	12672
	CA50	3	20.0	26	347	9022
P5	CA60	1	5.0	22	262	5764
	CA60	2	5.0	110	35	3850
	CA50	3	16.0	14	333	4662
P6	CA60	1	5.0	14	282	3948
	CA60	2	5.0	112	44	4928
	CA50	3	20.0	24	347	8328
P7	CA60	1	5.0	18	152	2736
	CA60	2	5.0	36	30	1080
	CA50	3	16.0	8	333	2664
P8	CA50	1	10.0	35	253	8855
	CA50	2	10.0	73	36	2520
	CA50	3	20.0	24	347	8328
P9	CA60	1	5.0	22	162	3564
	CA60	2	5.0	22	35	770
	CA50	3	12.5	6	322	1932
P10	CA60	1	5.0	22	162	3564
	CA60	2	5.0	66	35	2310
	CA50	3	16.0	10	277	2770
P11	CA60	1	5.0	14	262	3668
	CA60	2	5.0	210	35	7350
	CA50	3	10.0	28	263	7364
	CA50	4	12.5	6	277	1662
	CA50	5	12.5	10	322	3220
	CA50	6	12.5	2	91	182
P12	CA60	1	5.0	18	192	3456
	CA60	2	5.0	72	30	2160
	CA50	3	16.0	12	333	3996
P13	CA60	1	5.0	35	420	14700
	CA60	2	5.0	245	32	7840
	CA50	3	16.0	6	277	1662
	CA50	4	16.0	14	333	4662
P14	CA60	1	5.0	22	162	3564
	CA60	2	5.0	44	35	1540
	CA50	3	16.0	10	277	2770
P15	CA60	1	5.0	14	262	3668
	CA60	2	5.0	153	35	5355
	CA50	3	8.0	37	262	9694
	CA50	4	16.0	4	277	1108
	CA50	5	16.0	1	107	107
	CA50	6	16.0	8	333	2664
	CA50	7	16.0	3	101	303
P16	CA60	1	5.0	18	192	3456
	CA60	2	5.0	108	30	3240
	CA50	3	16.0	4	277	1108
	CA50	4	16.0	14	333	4662
P17	CA50	1	8.0	28	420	11760
	CA50	2	8.0	168	35	5880
	CA50	3	16.0	16	277	4432
	CA50	4	16.0	4	107	428
	CA50	5	16.0	20	333	6660
P18	CA60	1	5.0	22	122	2684
	CA60	2	5.0	22	35	770
	CA50	3	16.0	12	277	3324
P19	CA60	1	5.0	24	152	3648
	CA60	2	5.0	48	30	1440
	CA50	3	10.0	8	313	2504
P20	CA60	1	5.0	22	262	5764
	CA60	2	5.0	88	35	3080
	CA50	3	16.0	16	333	5328
P21	CA50	1	6.3	40	252	10080
	CA50	2	6.3	280	31	8680
	CA50	3	16.0	20	333	6660
P22	CA50	1	6.3	23	282	6486
	CA50	2	6.3	128	38	4864
	CA50	3	16.0	20	101	2020
	CA50	4	16.0	41	294	12054
	CA50	5	20.0	20	277	5540
	CA50	6	20.0	4	347	1388
P23	CA60	1	5.0	26	212	5512
	CA60	2	5.0	52	40	2080
	CA50	3	16.0	20	277	5540
P24	CA60	1	5.0	14	202	2828
	CA60	2	5.0	84	34	2856
	CA50	3	20.0	4	277	1108
	CA50	4	20.0	14	347	4858
P25	CA60	1	5.0	35	162	5670
	CA60	2	5.0	105	44	4620
	CA50	3	20.0	2	277	554
	CA50	4	20.0	2	133	266
	CA50	5	20.0	12	347	4164
2xP26	CA60	1	5.0	44	302	13288
	CA60	2	5.0	176	35	6160
	CA50	3	12.5	24	322	7728

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	301.1	73.7
	8.0	273.4	107.9
	10.0	260.4	160.5
	12.5	218.1	210.1
	16.0	795.9	1256.1
	20.0	435.6	1074.2
CA60	5.0	1945.6	299.9
PESO TOTAL			
CA50	2882.4		
CA60	299.9		

Vol. de concreto total (C-30) = 17.64 m³
Área de forma total = 182.62 m²

CONTROLE DAS REVISÕES:

REVISÃO	DATA	DESCRIÇÃO

ENGENHARIA
Engenharia de Estruturas e Engenharia de Segurança do Trabalho
Excelência em Projetos Estruturais de Concreto Armado, Protendido, Pré-Moldado, Estruturas Metálicas e Alvenaria Estrutural
Avenida Pingüim, Nº 304 | Sala 01 | Gleba Ribeirão Pingüim | Maringá - Paraná | CEP: 87065-675
Fone/Fax: (44) 3026-8993 - e-mail: yk@ykengenharia.com.br - Visite nosso site! http://www.ykengenharia.com.br

PROJETO:
ESTRUTURAL EM CONCRETO ARMADO

CLIENTE:
RODRIGO KOJO

OBRA:
Para Construção de Uma Edificação Residencial Coletiva - Edifício Jardins de France

LOCAL:
Rua Francisco Glicério, nº 1.033 - Zona 07 - Maringá - Paraná

REFERÊNCIA(s):
Detalhes dos Pilares do Subsolo 1
<>
<>

REVISÃO: **R-00**

PRANCHA: **10** / **68**

RESPONSÁVEL TÉCNICO:
Eng° Esp Yutaka Mario Kobayashi Júnior
CREA PR-89.748/D

DATA CRIAÇÃO: 09/04/2013

DATA DA REVISÃO: N/C

ART Nº: 20122498064

PROJETO Nº: P-181

ESCALAS: INDICADAS