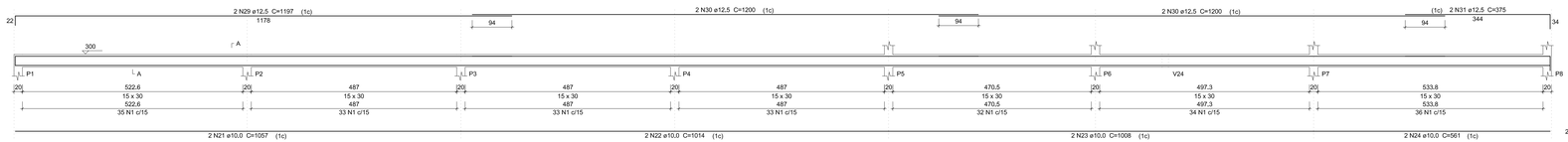
ANEXO XIII

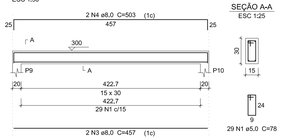
V1 V3
ESC 1:50



SEÇÃO A-A
ESC 1:25

236 N1 ø5,0 C=78

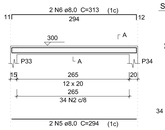
V2 V4
ESC 1:50



SEÇÃO A-A
ESC 1:25

29 N1 ø5,0 C=78

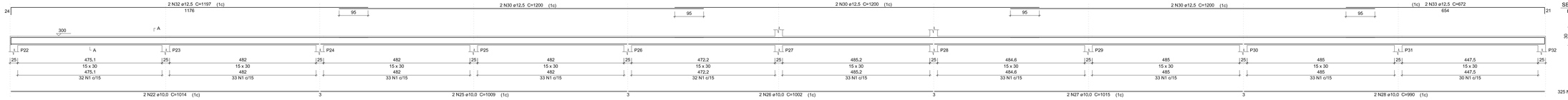
V6
ESC 1:50



SEÇÃO A-A
ESC 1:25

34 N2 ø5,0 C=52

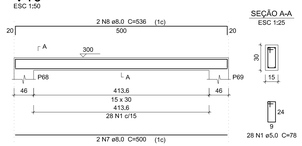
V5 V7 V8 V9
ESC 1:50



SEÇÃO A-A
ESC 1:25

325 N1 ø5,0 C=78

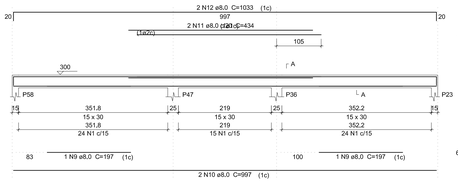
V10
ESC 1:50



SEÇÃO A-A
ESC 1:25

28 N1 ø5,0 C=78

V12 V13 V15 V17 V19 V22 V26 V28 V30 V31 33
ESC 1:50



SEÇÃO A-A
ESC 1:25

63 N1 ø5,0 C=78

V32
ESC 1:50

SEÇÃO A-A
ESC 1:25

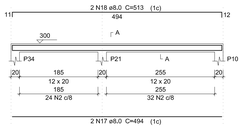
18 N1 ø5,0 C=78

V34
ESC 1:50

SEÇÃO A-A
ESC 1:25

12 N1 ø5,0 C=78

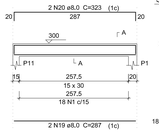
V35
ESC 1:50



SEÇÃO A-A
ESC 1:25

56 N2 ø5,0 C=52

V11 V14 V16 V18 V20 V21 V24 V27 V29
ESC 1:50



SEÇÃO A-A
ESC 1:25

18 N1 ø5,0 C=78

Relação do aço

2xV1 2xV2 4xV5
V6 V10 9xV11
11xV13 V32 V34
V35

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA50	1	5,0	2743	78	213954
	2	5,0	90	52	4680
	3	8,0	4	457	1828
	4	8,0	4	503	2012
	5	8,0	2	294	588
	6	8,0	2	313	626
	7	8,0	2	500	1000
	8	8,0	2	536	1072
	9	8,0	22	197	4334
	10	8,0	22	997	21934
	11	8,0	22	434	9548
	12	8,0	22	1033	22726
	13	8,0	2	297	594
	14	8,0	2	333	666
	15	8,0	2	223	446
	16	8,0	2	259	518
	17	8,0	2	494	988
	18	8,0	2	513	1026
	19	8,0	18	287	5166
	20	8,0	18	323	5814
	21	10,0	4	1057	4228
	22	10,0	12	1014	12168
	23	10,0	4	1008	4032
	24	10,0	4	561	2244
	25	10,0	8	1009	8072
	26	10,0	8	1002	8016
	27	10,0	8	1015	8120
	28	10,0	8	990	7920
	29	12,5	4	1197	4788
	30	12,5	32	1200	38400
	31	12,5	4	375	1500
	32	12,5	8	1197	9576
	33	12,5	8	672	5376

Resumo do aço

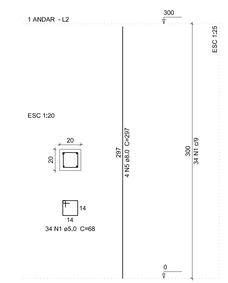
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	5,0	2186,4	370,7
	8,0	808,9	351,1
	10,0	548	371,6
	12,5	596,4	632
PESO TOTAL			
CA50	1725,4		

Vol. de concreto total (C-25) = 19,61 m³
Área de forma total = 327,71 m²

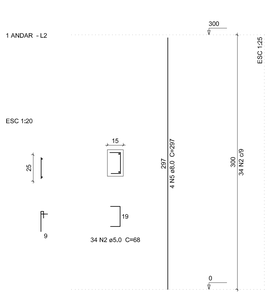
PLANTA DE VIGAS 1º PAVIMENTO
ESC.:1/50

PLANTA DE VIGAS 1º PAVIMENTO
ESC.:1/50

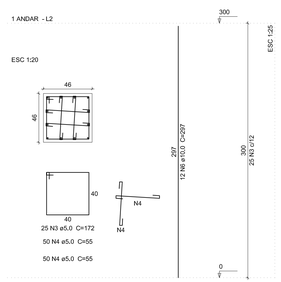
P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P21 P34



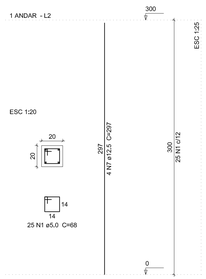
P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P33 P57



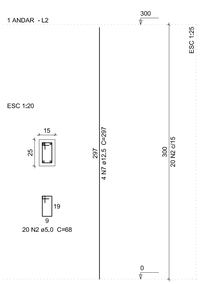
P68=P69



P36 P37 P38 P39 P40 P41 P42 P43 P44
P46 P47 P48 P49 P50 P51 P52 P53 P54



P22 P22 P23 P24 P25 P26 P27 P28 P29 P30 P31 P32 P35 P45
P56 P57 P58 P59 P60 P61 P62 P63 P64 P65 P66 P67



Relação do aço

12xP1 23xP11 25xP22
18xP34 2xP68

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA50	1	5,0	858	68	58344
	2	5,0	908	68	61744
	3	5,0	50	172	8600
	4	5,0	200	55	11000
	5	8,0	96	297	28512
	6	10,0	24	297	7128
	7	12,5	172	297	51084

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	5,0	1396,88	245,8
	8,0	285,12	125,45
	10,0	71,3	48,3
	12,5	510,9	541,3
PESO TOTAL			
CA50	960,85		

Vol. de concreto total (C-25) = 9,03 m³
Área de forma total = 171,84m²

PLANTA DE PILARES TERREO
ESC.:1/29

REV.	DESCRIÇÃO	DATA	VISTO

abbm braga engenharia

PREFEITURA DE SÃO JOSÉ DO VALE DO RIO PRETO
SECRETARIA DE PLANEJAMENTO E GESTÃO

Obra:
REFORMA E AMPLIAÇÃO DO NOVO CENTRO ADMINISTRATIVO (ANTIGA COOPERVALE)

Projeto:
PROJETO ESTRUTURAL

Disciplina:	Escala:	Data:
PLANTAS DE VIGAS 1º PAVIMENTO, PILARES TERREO	INDICADA	NOV/2018

Escritório Responsável:
ABBM BRAGA COMÉRCIO E SERVIÇOS LTDA - ME

Prancha: 04

Responsável Técnico:
JULIO ODONI E BRUNO TELES

Fiscalização e Supervisão: