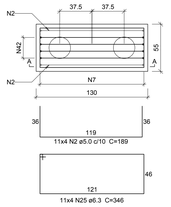
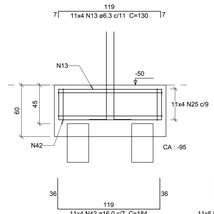
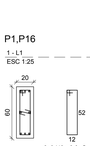
B1=B3=B4=B5=B6=B16=B33=B43=B49=B52=B55
2xR25
PLANTA
ESC 1:25



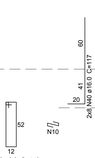
CORTE A-A
ESC 1:25



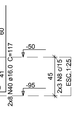
P1,P16
1 - L1
ESC 1:25



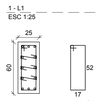
P3=P4=P5=P6
1 - L1
ESC 1:25



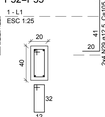
P33=P49
1 - L1
ESC 1:25



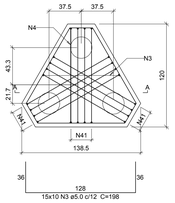
P43
1 - L1
ESC 1:25



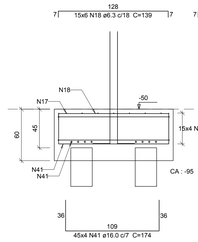
P52=P55
1 - L1
ESC 1:25



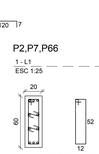
B2=B7=B17=B18=B19=B20=B21=B22 B32=B34=B48=B53=B54=B65=B66
3xR25
PLANTA
ESC 1:25



CORTE A-A
ESC 1:25

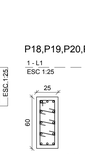


P2,P7,P66
1 - L1
ESC 1:25

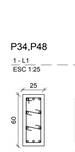


P17,P32
1 - L1
ESC 1:25

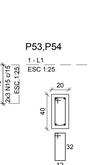
P18,P19,P20,P21,P22
1 - L1
ESC 1:25



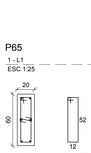
P34,P48
1 - L1
ESC 1:25



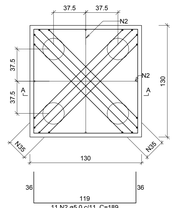
P53,P54
1 - L1
ESC 1:25



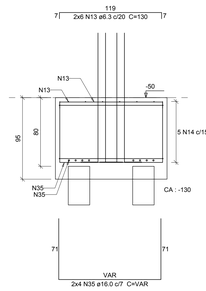
P65
1 - L1
ESC 1:25



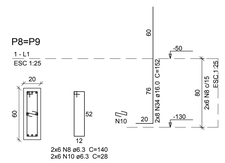
B8-9
4xR25
PLANTA
ESC 1:25



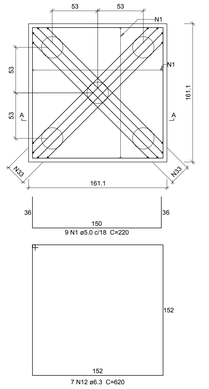
CORTE A-A
ESC 1:25



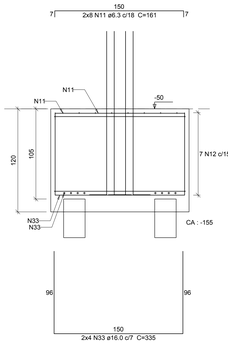
P8=P9
1 - L1
ESC 1:25



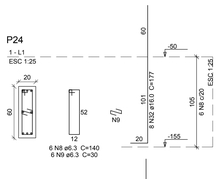
B24-25
5xR25
PLANTA
ESC 1:25



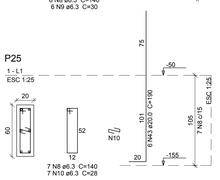
CORTE A-A
ESC 1:25



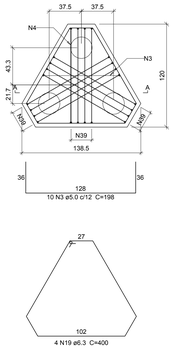
P24
1 - L1
ESC 1:25



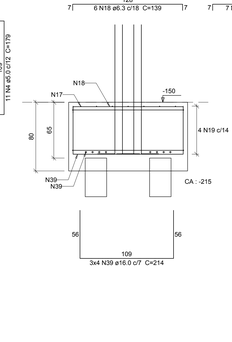
P25
1 - L1
ESC 1:25



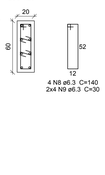
B40-41
3xR25
PLANTA
ESC 1:25



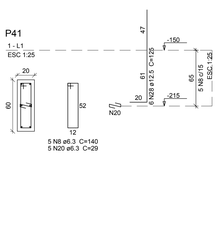
CORTE A-A
ESC 1:25



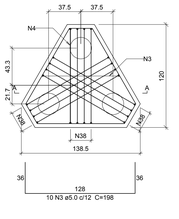
P40
1 - L1
ESC 1:25



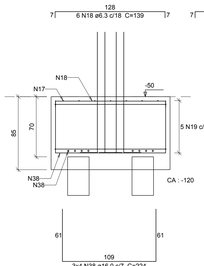
P41
1 - L1
ESC 1:25

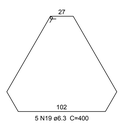


B63-64
3xR25
PLANTA
ESC 1:25

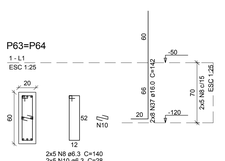


CORTE A-A
ESC 1:25

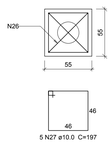




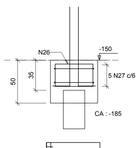
P63=P64
1 - L1
ESC 1:25



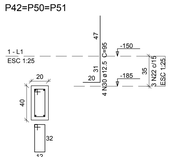
B42=B50=B51
1xR25
PLANTA
ESC 1:25



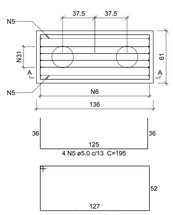
CORTE
ESC 1:25



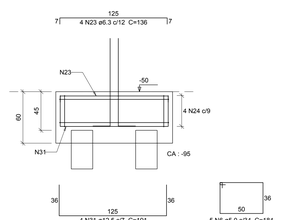
P42=P50=P51
1 - L1
ESC 1:25



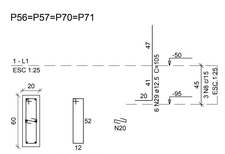
B56=B57=B70=B71
2xR25
PLANTA
ESC 1:25



CORTE A-A
ESC 1:25



P56=P57=P70=P71
1 - L1
ESC 1:25



Relação do aço

B1	B2	B10
B26	3xB42	4xB56
B8-9	B24-25	B40-41
B63-64		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	18	220	3960
	2	5.0	346	189	65394
	3	5.0	314	198	62172
	4	5.0	513	179	91827
	5	5.0	16	195	3120
	6	5.0	20	184	3680
	7	5.0	55	172	9460
CA50	8	6.3	154	140	21560
	9	6.3	168	30	5040
	10	6.3	41	28	1148
	11	6.3	16	161	2576
	12	6.3	7	620	4340
	13	6.3	224	130	29120
	14	6.3	75	496	37200
	15	6.3	80	150	12000
	16	6.3	180	35	6300
	17	6.3	231	120	27720
	18	6.3	198	139	27522
	19	6.3	129	400	51600
	20	6.3	26	29	754
	21	6.3	93	34	3162
	22	6.3	21	100	2100
	23	6.3	16	136	2176
	24	6.3	16	370	5920
	25	6.3	44	346	15224
	26	10.0	6	189	1134
	27	10.0	15	197	2955
	28	12.5	6	125	750
	29	12.5	58	105	6090
	30	12.5	12	95	1140
	31	12.5	16	191	3056
	32	16.0	8	177	1416
	33	16.0	8	335	2680
	34	16.0	16	152	2432
	35	16.0	8	VAR	VAR
	36	16.0	112	204	22848
	37	16.0	16	142	2272
	38	16.0	12	224	2688
	39	16.0	228	214	48792
	40	16.0	28	117	3276
	41	16.0	180	174	31320
	42	16.0	44	184	8096
	43	20.0	6	190	1140
	44	20.0	158	140	22120
	45	20.0	208	150	31200
	46	20.0	186	130	24180

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	2554.7	625.1
	10.0	40.9	25.2
	12.5	110.4	106.3
	16.0	1278.6	2017.9
	20.0	786.4	1939.4
CA60	5.0	2396.2	369.3
PESO TOTAL (kg)			
CA50	4714		
CA60	369.3		

Volume de concreto (C-25) = 56.42 m³
Área de forma = 223.58 m²

NOTAS GERAIS
- Concreto a usar: fck = 25,0 MPa.
- Medidas expressas em centímetros. Escalas indicadas no desenho.
- Não tomar medidas do desenho com régua (escala).
- Observar comprimentos mínimos de traspasse (emendas e esperas) exigidos.
- Obedecer cobrimentos das armaduras segundo as normas da ABNT e o projeto.
- Dispor armaduras de pele (costela) quando se indicar no desenho da ferragem.
- Jamais alterar a distribuição das armaduras de pilares nas respectivas seções.
- Projeto de fundações conforme RELATÓRIO N. ° 145.SO. 2009, fornecido por Prossonda Fundações.
- No caso de dúvidas, ou na suspeita de engano no desenho, contatar o calculista.

REVISÃO	DESCRIÇÃO	VISTO	DATA
01	OTIMIZAÇÃO DAS FUNDAÇÕES E ELIMINAÇÃO DA PRANCHA 01.EC.624	Manassés	05/10/2018
00	EMISSÃO INICIAL	Manassés	16/10/2014

UNIVERSIDADE FEDERAL DO AMAZONAS
PREFEITURA DA UFAM

OBRA
CAMPUS UNIVERSITÁRIO DA UFAM MANAUS
BIBLIOTECA SETOR SUL
PROJETO DE ESTRUTURA DE CONCRETO

TITULO
FUNDAÇÕES
DETALHES

ESCALA	DATA	PROJETO	ART:	ARQUIVO
INDICADA	16/10/2014	Eng.Manassés Maia CREA 111160/DAM	0030730/2014	1411-EC-003-R01.cad

PRANCHA 01-EC-623 R01

Configuração de Penas
Colocar em TODAS as Penas: - Espessura = 0.50 - Color = Black - Grayscale = Off
Com exceção das seguintes:

Pena	Espessura
1	0.10
2	0.20
3	0.30
4	0.40
5	0.60
6	0.80
7	0.15
8	0.05