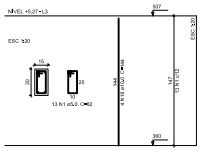
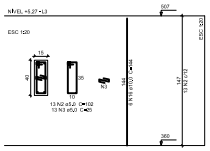
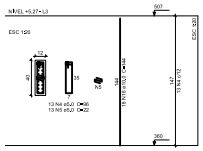
P4=P60



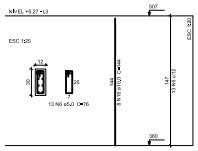
P5=P22=P23=P26=P62=P63



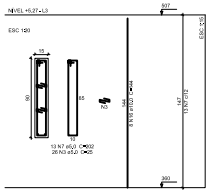
P6



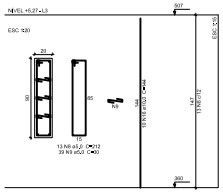
P7=P15=P72



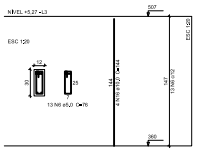
P11



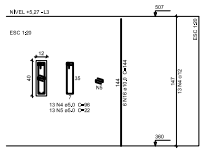
P12



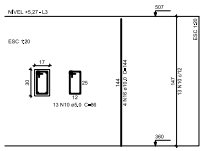
P13=P37



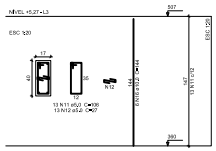
P14=P33=P41=P47



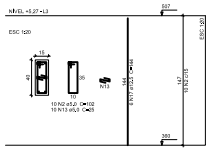
P24



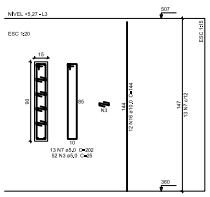
P25



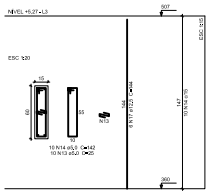
P34



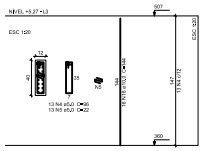
P35



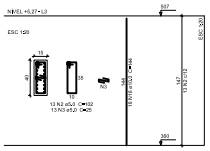
P36=P61



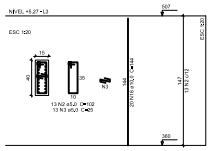
P43



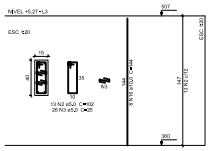
P51



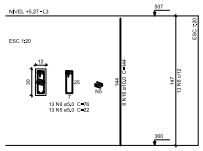
P52



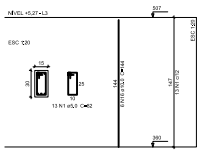
P53



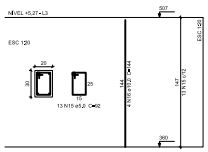
P64



P67



P68



Relação do aço

2xP4	6xP5	P6	
2xP7	P11	P12	
2xP13	4xP14	P24	
P25	P34	P35	
2xP36	P43	P51	
P52	P53	P64	
P67	P68		

AÇO	N	DIAM (mm)	QUANT (barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	39	82	3198
	2	5,0	127	102	12954
	3	5,0	205	25	5250
	4	5,0	79	95	7495
	5	5,0	91	22	2002
	6	5,0	38	76	2888
	7	5,0	20	202	4040
	8	5,0	39	32	1248
	9	5,0	37	30	1110
	10	5,0	13	86	1118
	11	5,0	12	106	1272
	12	5,0	13	27	351
	13	5,0	30	25	750
	14	5,0	20	142	2840
	15	5,0	13	92	1196
CA50	16	10,0	236	144	33984
	17	12,5	18	144	2592

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA60	10,0	339,5	230,5
CA60	12,0	26	27,4
CA60	5,0	539,5	36,1
PESO TOTAL (kg)			
CA50	257,0		
CA60	36,0		

Volume de concreto (C=25) = 3,81 m³
Área de forma = 85,07 m²

PROPRIETÁRIO

RESP. TÉCNICO

UNIVERSIDADE FEDERAL DO AMANZONAS - UFAM
PREFEITURA DO CAMPUS UNIVERSITÁRIO
DIVISÃO DE PROJETOS E FISCALIZAÇÃO DE OBRAS

OBRA / PROJETO: RESTAURANTE UNIVERSITÁRIO DO CAMPUS DORVAL VARELA MOURA

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DO AMAZONAS - UFAM

ENDEREÇO: ESTRADA PARINTINS MACURANY, PARINTINS/AM.

AUTOR(A): ENG. CIVIL ALESSIAR PEREIRA TORRES - CREA - 10800 - DAM

PROJETO: ESTRUTURAS

FASE: EX

TÍTULO: PILARES - NÍVEL +5,27
ARMAÇÃO DOS PILARES

NOTAS

EST 22

ESCALA: 1/20 | DESENHO: ALESSIAR | REV. DESENHO: | DATA: FEV/2016

ALTERAÇÃO PROJETO Nº	DATA	DESCRIÇÃO / ALTERAÇÃO	VISTO

PROIBIDAS ALTERAÇÕES E REPRODUÇÕES POR TERCEIROS - DIREITOS AUTORAIS RESERVADOS - LEI 9.610/98