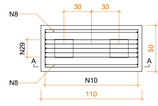
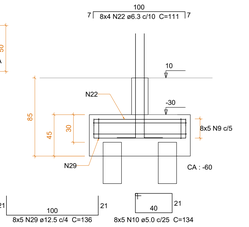
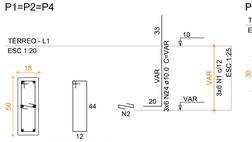
B1=B2=B4=B47=B68=B72=B78=B81
2xR20
PLANTA
ESC 1:25



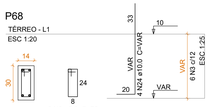
CORTE A-A
ESC 1:25



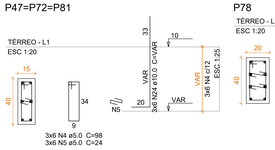
P1=P2=P4
TÉRREO - L1
ESC 1:20



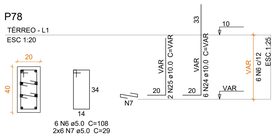
P68
TÉRREO - L1
ESC 1:20



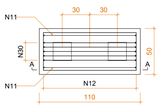
P47=P72=P81
TÉRREO - L1
ESC 1:20



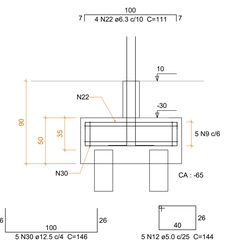
P78
TÉRREO - L1
ESC 1:20



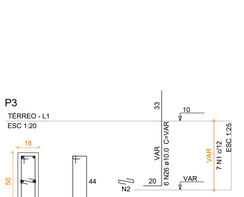
B3
2xR20
PLANTA
ESC 1:25



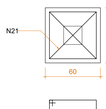
CORTE A-A
ESC 1:25



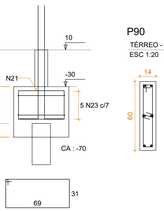
P3
TÉRREO - L1
ESC 1:20



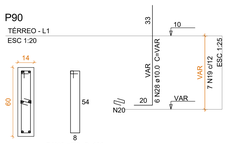
B90
1xR20
PLANTA
ESC 1:25



CORTE
ESC 1:25



P90
TÉRREO - L1
ESC 1:20



Relação de aço
B3
B90
B4
B74

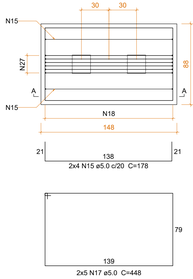
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	25	124	3100
	2	5.0	25	27	675
	3	5.0	6	76	456
	4	5.0	18	98	1764
	5	5.0	18	24	432
	6	5.0	6	108	648
	7	5.0	12	29	348
	8	5.0	32	140	4480
	9	5.0	45	296	13320
	10	5.0	40	134	5360
	11	5.0	4	150	600
	12	5.0	5	144	720
	13	5.0	11	220	2420
	14	5.0	22	37	814
	15	5.0	8	178	1424
	16	5.0	10	148	1480
	17	5.0	10	448	4480
	18	5.0	12	210	2520
	19	5.0	7	136	952
	20	5.0	7	23	161
	21	5.0	2	212	424
CA50	22	6.3	36	111	3996
	23	6.3	5	216	1080
	24	10.0	46	VAR	VAR
	25	10.0	2	VAR	VAR
	26	10.0	6	VAR	VAR
	27	10.0	12	175	2100
	28	10.0	6	VAR	VAR
	29	12.5	40	136	5440
	30	12.5	5	146	730
	31	12.5	16	VAR	VAR

Resumo do aço

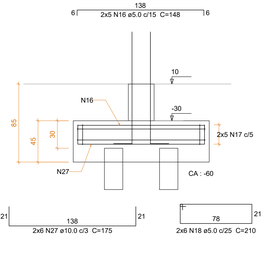
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	50.8	12.4
	10.0	91.4	56.3
	12.5	81.7	78.7
CA60	5.0	465.8	71.8
PESO TOTAL (kg)			
CA50	147.5		
CA60	71.8		

Volume de concreto (C-30) = 4.37 m³
Área de forma = 30.75 m²

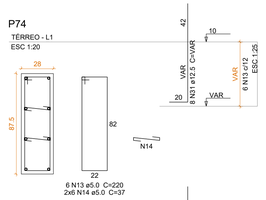
B74=B75
2xR20
PLANTA
ESC 1:25



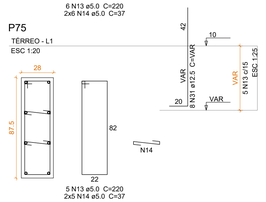
CORTE A-A
ESC 1:25



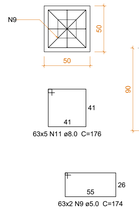
P74
TÉRREO - L1
ESC 1:20



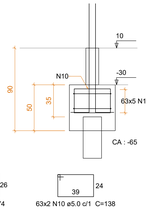
P75
TÉRREO - L1
ESC 1:20



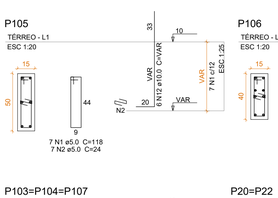
B15=B16=B17=B18=B19=B20=B21=B22=B23=B24 =B25=B26=B27=B28=B29=B30=B31=B32=B33 =B35=B36=B39=B43=B45=B48=B53=B55=B60 =B61=B62=B63=B64=B66=B67=B69=B70=B73 =B84=B85=B87=B88=B89=B91=B92=B93=B95 =B96=B97=B98=B99=B100=B101=B102=B103 =B104=B105=B106=B107=B109=B110=B111=B112 =B113=B108
1xR20
PLANTA
ESC 1:25



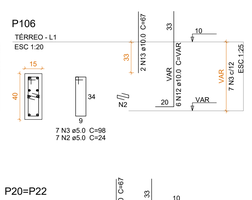
CORTE
ESC 1:25



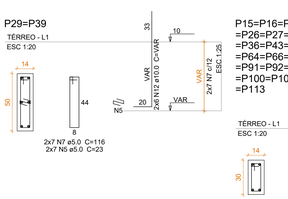
P105
TÉRREO - L1
ESC 1:20



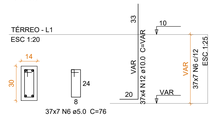
P106
TÉRREO - L1
ESC 1:20



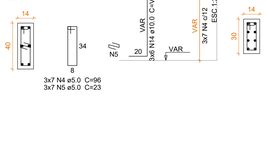
P29=P39
TÉRREO - L1
ESC 1:20



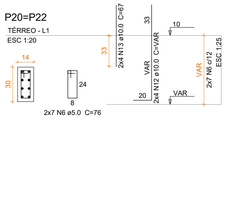
P15=P16=P17=P18=P21=P24=P25= =P26=P27=P30=P31=P32= =P36=P43=P53=P61=P62=P63= =P64=P66=P85=P87=P88=P89= =P91=P92=P93=P97=P98=P99= =P100=P109=P110=P111=P112= =P113
TÉRREO - L1
ESC 1:20



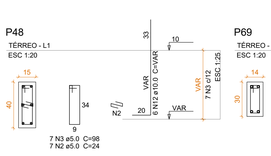
P103=P104=P107
TÉRREO - L1
ESC 1:20



P20=P22
TÉRREO - L1
ESC 1:20



P48
TÉRREO - L1
ESC 1:20



P69
TÉRREO - L1
ESC 1:20

Relação de aço
B84

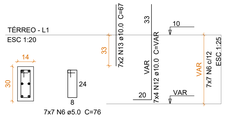
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	7	118	826
	2	5.0	28	24	672
	3	5.0	21	98	2058
	4	5.0	63	96	6048
	5	5.0	77	23	1771
	6	5.0	328	76	24928
	7	5.0	14	116	1624
	8	5.0	7	78	546
	9	5.0	126	174	21924
	10	5.0	126	138	17388
CA50	11	8.0	315	176	55440
	12	10.0	254	VAR	VAR
	13	10.0	24	67	1608
	14	10.0	24	VAR	VAR
	15	12.5	4	VAR	VAR
	16	12.5	6	83	498

Resumo do aço

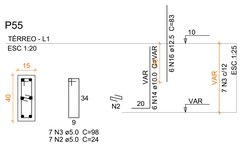
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	554.4	218.8
	10.0	346.4	213.5
	12.5	10.2	9.8
CA60	5.0	777.9	119.9
PESO TOTAL (kg)			
CA50	442.1		
CA60	119.9		

Volume de concreto (C-30) = 9.69 m³
Área de forma = 107.36 m²

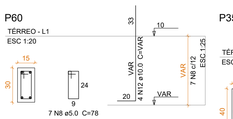
P19=P23=P28=P33=P67=P70=P84
TÉRREO - L1
ESC 1:20



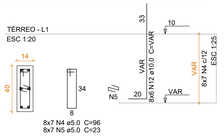
P55
TÉRREO - L1
ESC 1:20



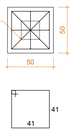
P60
TÉRREO - L1
ESC 1:20



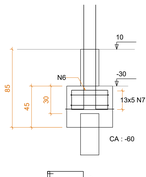
P35=P45=P73=P95=P96=P101=P102=P108
TÉRREO - L1
ESC 1:20



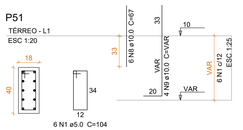
B51=B52=B54=B56=B57=B58=B59=B76=B77=B79 =B80=B82=B83
1xR20
PLANTA
ESC 1:25



CORTE
ESC 1:25

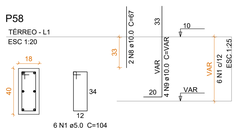


P51
TÉRREO - L1
ESC 1:20

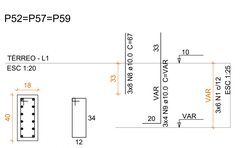


P56
TÉRREO - L1
ESC 1:20

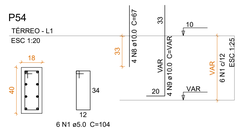
P58
TÉRREO - L1
ESC 1:20



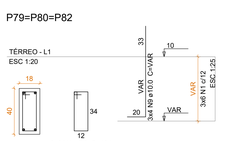
P52=P57=P59
TÉRREO - L1
ESC 1:20



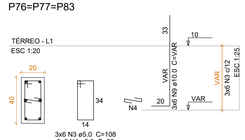
P54
TÉRREO - L1
ESC 1:20



P79=P80=P82
TÉRREO - L1
ESC 1:20



P76=P77=P83
TÉRREO - L1
ESC 1:20



Relação de aço
B83

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	54	104	5616
	2	5.0	6	84	504
	3	5.0	18	108	1944
	4	5.0	18	29	522
	5	5.0	26	164	4264
	6	5.0	26	128	3328
CA50	7	8.0	65	176	11440
	8	10.0	42	67	2814
	9	10.0	58	VAR	VAR

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	114.4	45.1
	10.0	96	59.2
CA60	5.0	161.8	24.9
PESO TOTAL (kg)			
CA50	104.3		
CA60	24.9		

Volume de concreto (C-30) = 2.04 m³
Área de forma = 22.2 m²

ARMAÇÃO - BLOCOS E PILARETES
ESCALA 1:50

REVISÃO	DESCRIÇÃO	DATA	RESPONSÁVEL
1	Emissão Inicial	11/2018	ES

ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA FOZ DO RIO ITAJAÍ
Rua Luiz Lopes Gonzaga, 1655 - Bairro São Vicente - CEP 88309-421 - Itajaí-SC - CREA-SC 050.968-0
www.amfri.org.br amfri@amfri.org.br engenharia@amfri.org.br

AMFRI

Prefeitura Municipal de Itajaí
Estado de Santa Catarina

UNIDADE BÁSICA DE SAÚDE RIO BONITO
Rua Arq. Nilson Edson dos Santos - São Vicente

Data: 11/2018	Projeto: PROJETO ESTRUTURAL	Conteúdo da Folha: Blocos de fundação Pilaretes	
Escala: Indicada			
Desenho: Enio Sampaio	Prefeitura Municipal: Emerson Roberto Duarte, Secretário Municipal de Saúde	Responsável Técnico: Ralf Nordt, Engenheiro Civil - CREA/SC - 018759-9	
Folha: 02/20			