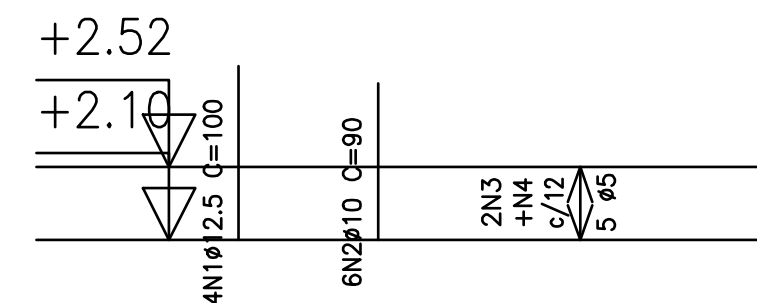
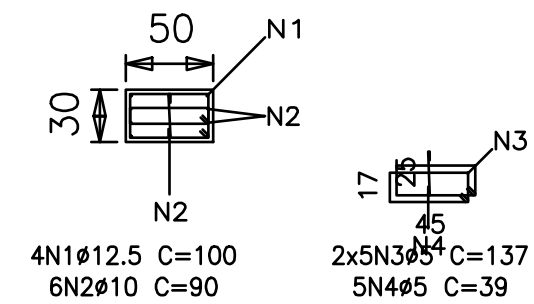


Resumo Aço		Comp. total	Peso+10%	Total
Piso 5		(m)	(kg)	
Pilares				
CA-50-A	ø6.3	165.7	45	432
	ø10	10.8	7	
	ø12.5	19.2	21	
	ø16	42.9	74	
	ø20	105.0	285	
CA-60-B	ø5	31.3	5	5
Total				437

Pilares que terminam em
Piso 5
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala: 1:100

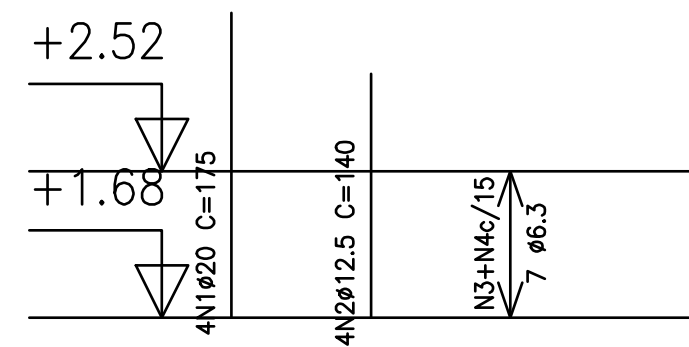
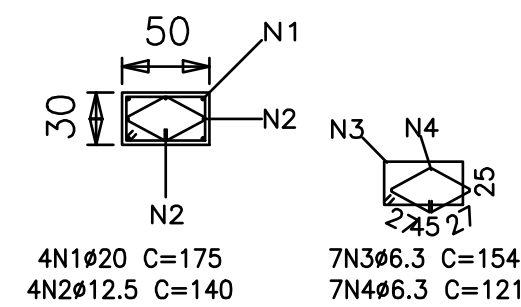
P3=P10

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 2 (cm)
CA-50-A	1	ø12.5	4	100	400	800
"	2	ø10	6	90	540	1080
CA-60-B	3	ø5	10	137	1370	2740
"	4	ø5	5	39	195	390



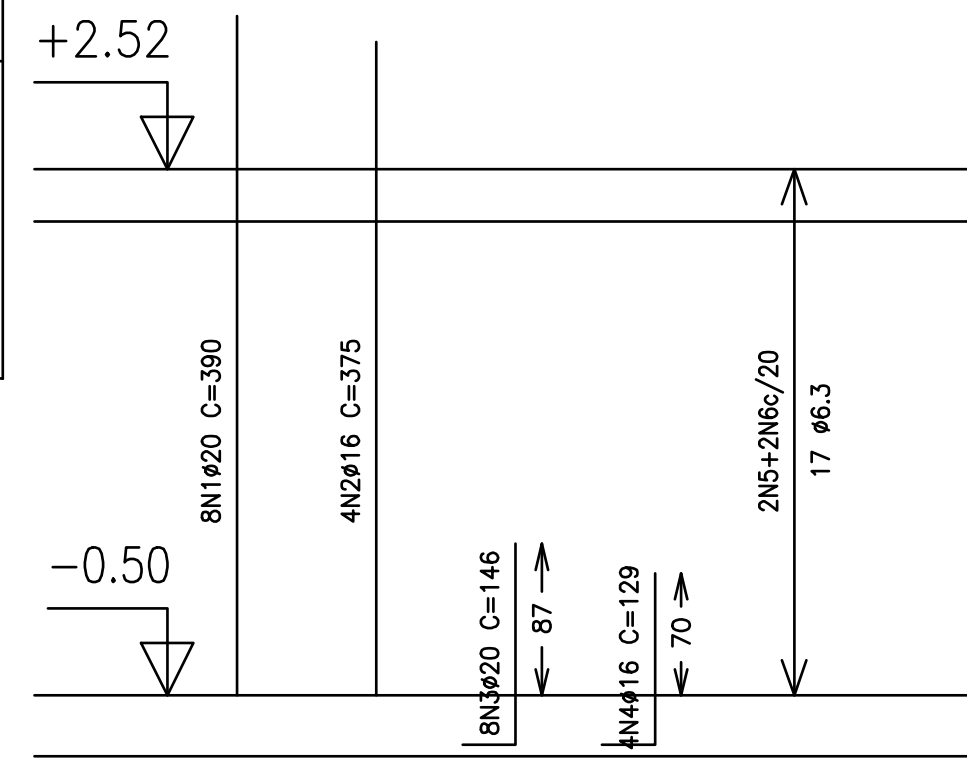
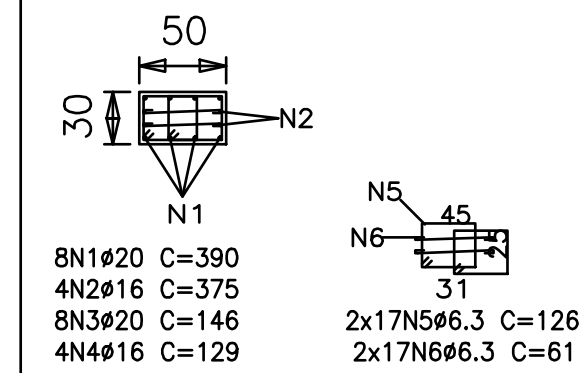
P4=P11

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 2 (cm)
CA-50-A	1	ø20	4	175	700	1400
"	2	ø12.5	4	140	560	1120
"	3	ø6.3	7	154	1078	2156
"	4	ø6.3	7	121	847	1694



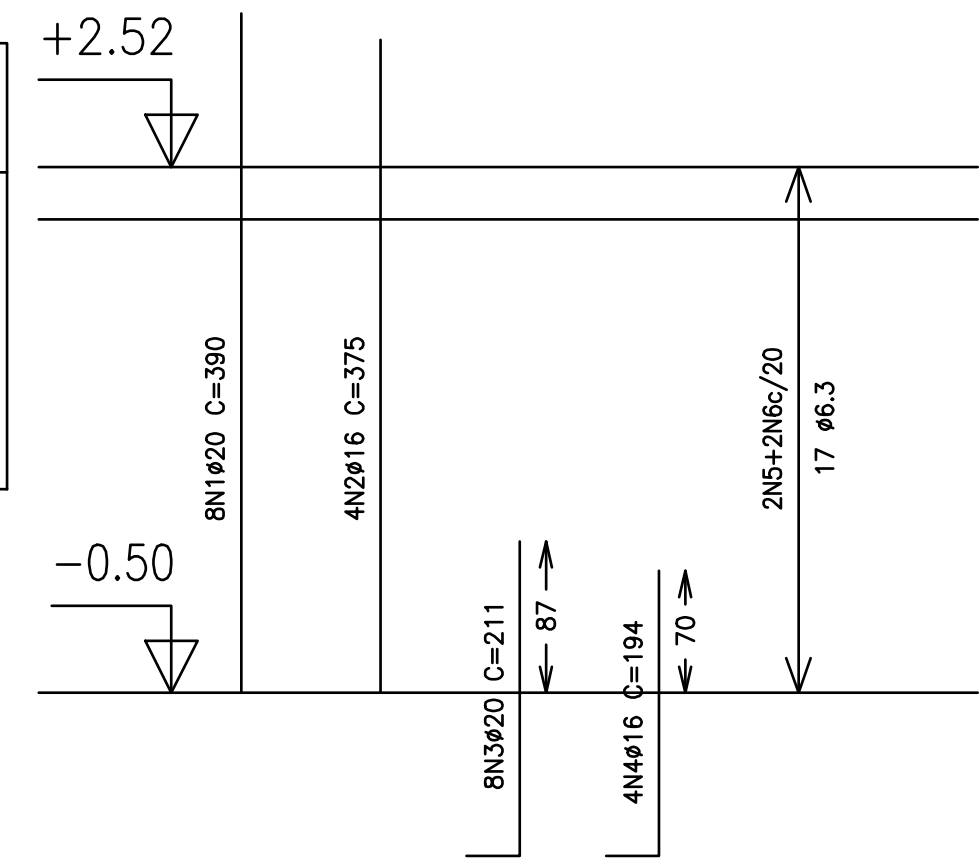
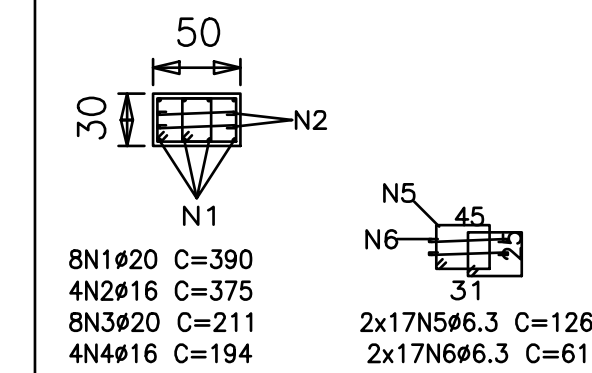
P20

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	ø20	8	390	3120
"	2	ø16	4	375	1500
"	3	ø20	8	146	1168
"	4	ø16	4	129	516
"	5	ø6.3	34	126	4284
"	6	ø6.3	34	61	2074



P14

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	ø20	8	390	3120
"	2	ø16	4	375	1500
"	3	ø20	8	211	1688
"	4	ø16	4	194	776
"	5	ø6.3	34	126	4284
"	6	ø6.3	34	61	2074



RAMPA DO RESTAURANTE			
CAMPUS TÓFILO OTONI			
AVENIDA DR. LUIS BOALI PORTO SALMAN, S/Nº - BAIRRO IPIRANGA - TEÓFILO OTONI/MG			
PROPRIETÁRIO:	UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI	CNPJ	16.888.315/0001-57
OBSERVAÇÕES			
CONFERIR MEDIDAS NA OBRA			
TÍTULO			
PROJETO DA RAMPA DO RESTAURANTE			
AUTOR PROJETO:			
RÓBSON NOGUEIRA GOMES - CREA 111839/D			
VERSÃO:	DATA:	AUTOCAD:	FOLHA:
VERSÃO 1	22.05.2013		28/66