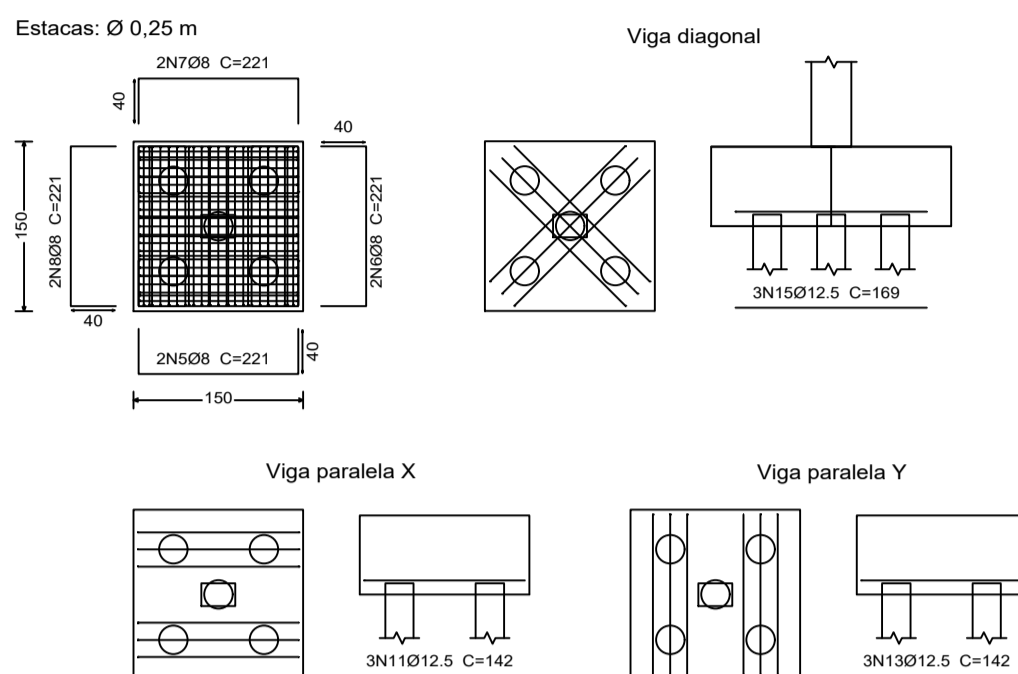
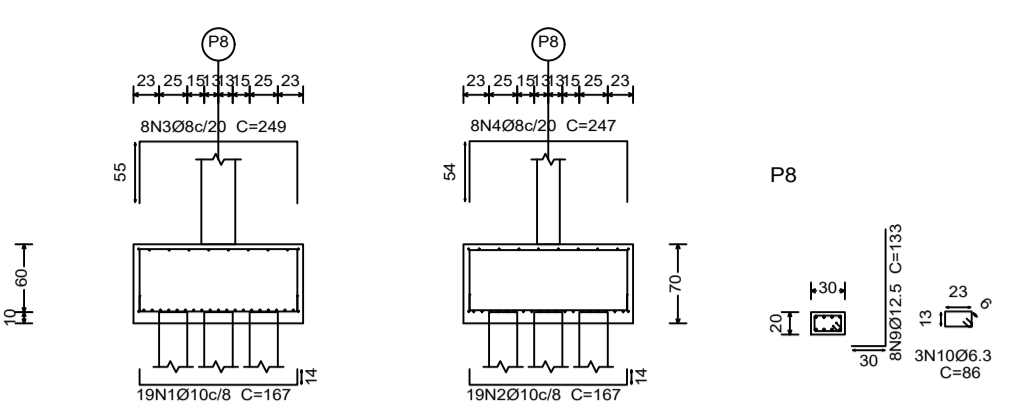
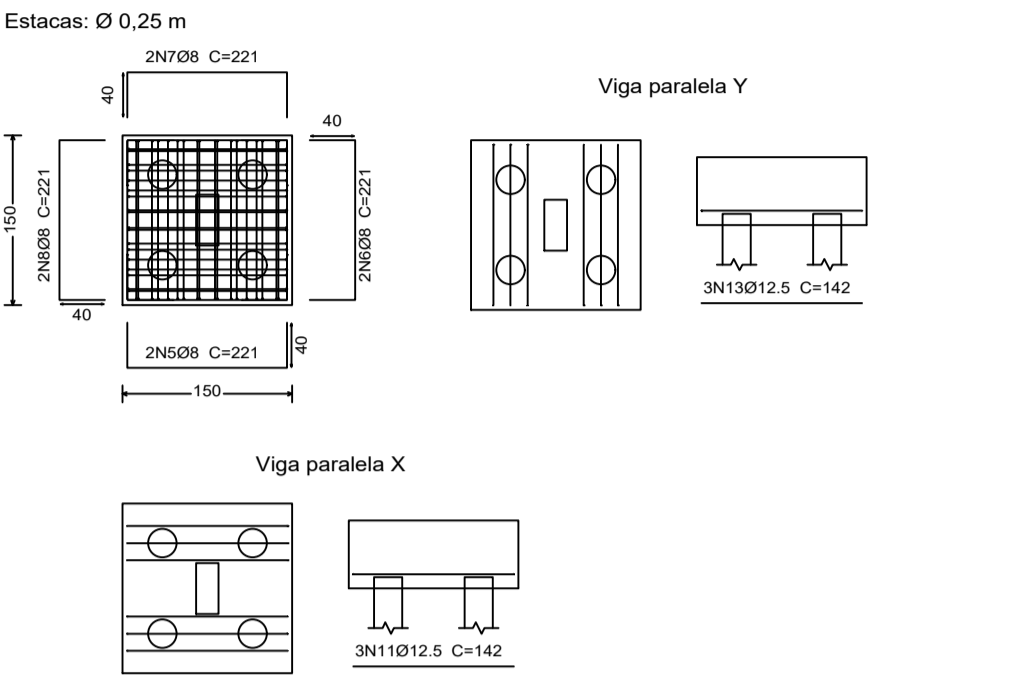
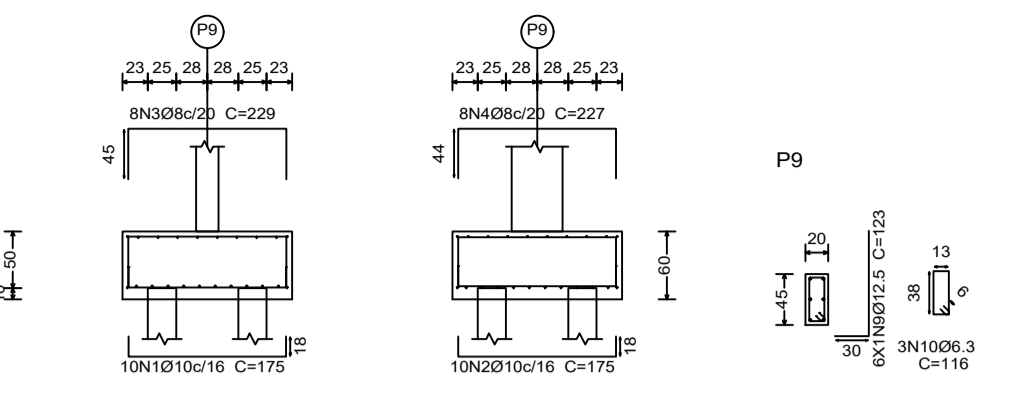


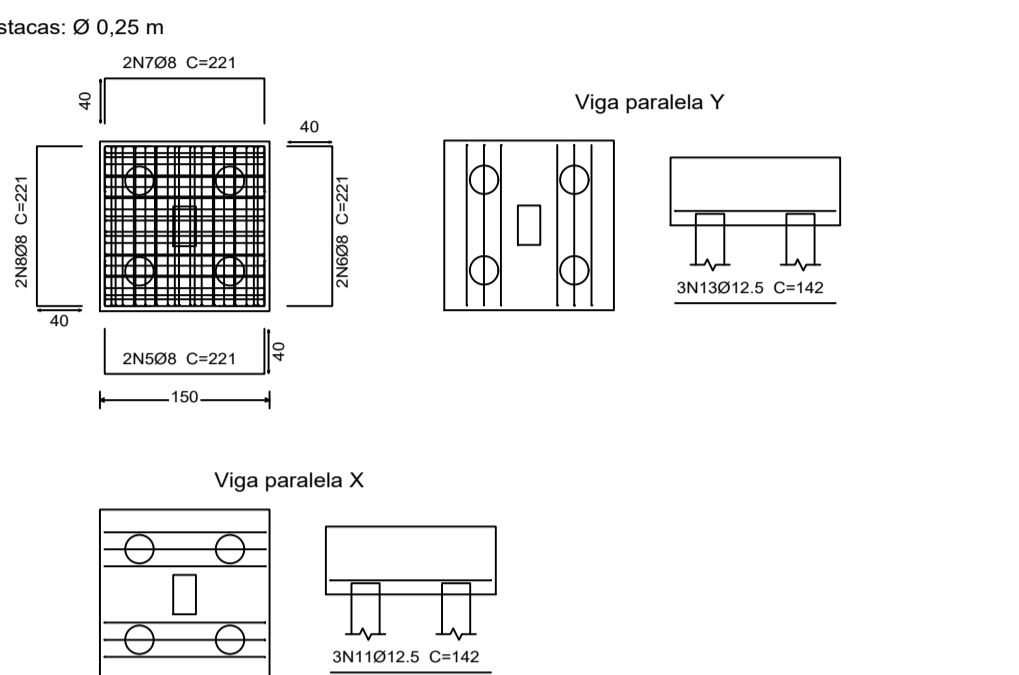
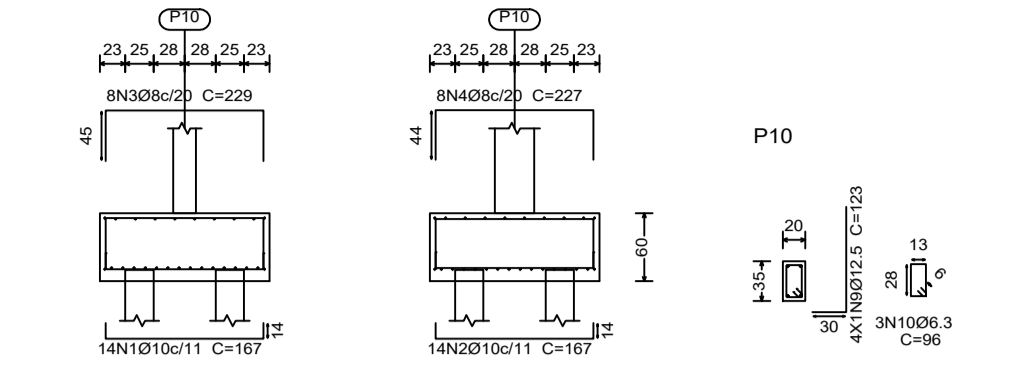
P8  
Escala 1:75



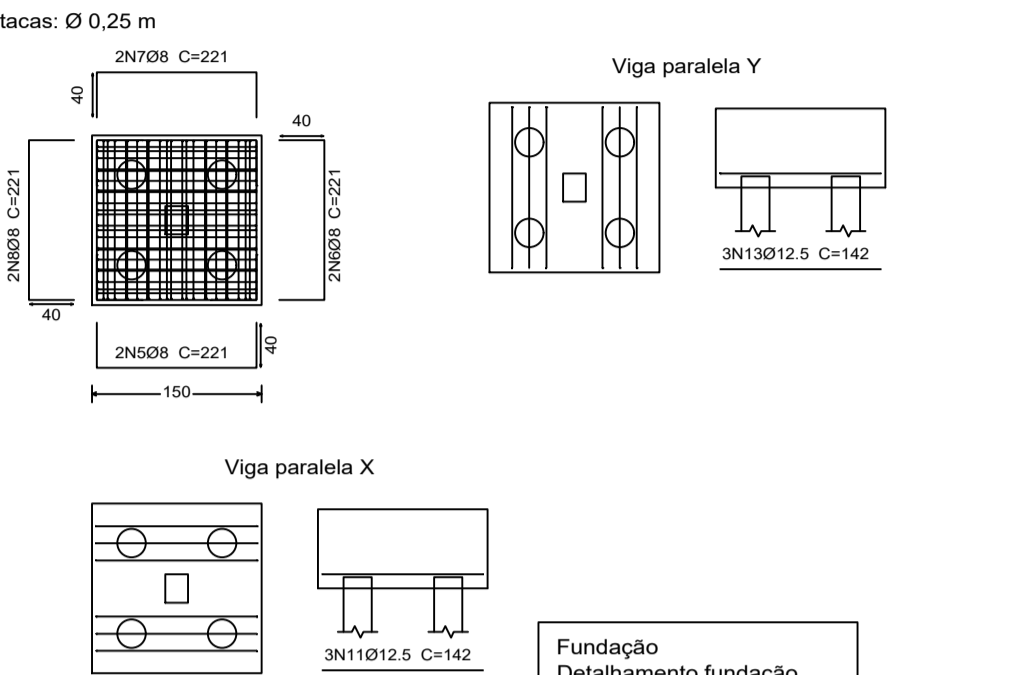
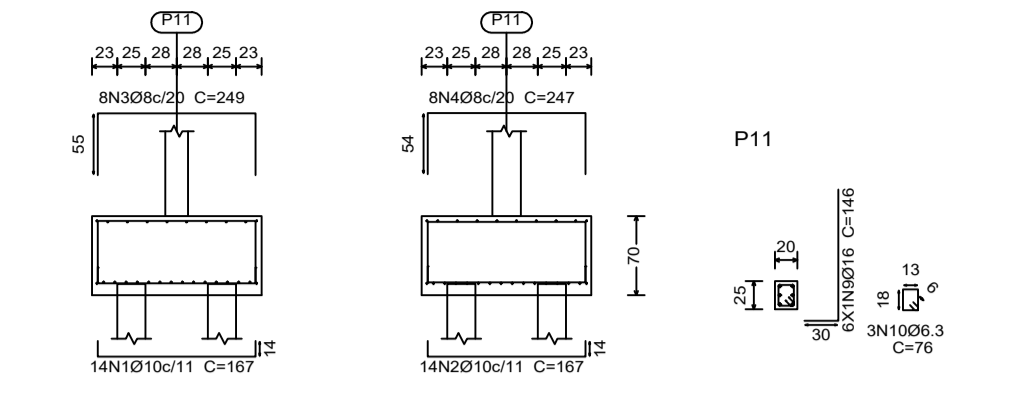
P9  
Escala 1:75



P10  
Escala 1:75



P11  
Escala 1:75



Fundação  
Detalhamento fundação  
Concreto: C25, em geral  
Escala: 1:75

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Retal (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)	
P15	22	Ø10	12	VAR.	VAR.	VAR.	1224	7.5			
	23	Ø10	9	VAR.	VAR.	VAR.	1125	6.9			
	24	Ø8	8	VAR.	VAR.	VAR.	1528	6.0			
	25	Ø8	9	VAR.	VAR.	VAR.	1584	6.3			
	26	Ø8	2	5	185	5	195	390	1.5		
	27	Ø8	2	5	185	5	195	390	1.5		
	28	Ø8	2	5	185	5	195	390	1.5		
	29	Ø12.5	4	30	93		123	492	4.7		
	30	Ø6.3	3		66		66	198	0.5		
	31	Ø12.5	3	14	132	14	160	480	4.6		
	32	Ø12.5	3	14	132	14	160	480	4.6		
	33	Ø12.5	3	14	132	14	160	480	4.6		
	Total+10%									55.2	
	P16=P19	1	Ø10	14	14	139	14	167	2338	14.4	
		2	Ø10	14	14	139	14	167	2338	14.4	
		3	Ø8	8	45	139	45	229	1832	7.2	
4		Ø8	8	44	139	44	227	1816	7.2		
5		Ø8	2	40	141	40	221	442	1.7		
6		Ø8	2	40	141	40	221	442	1.7		
7		Ø8	2	40	141	40	221	442	1.7		
8		Ø8	2	40	141	40	221	442	1.7		
9		Ø12.5	6	30	93		123	492	4.7		
10		Ø6.3	3		66		66	198	0.5		
11		Ø12.5	3	142	142		142	426	4.1		
12		Ø12.5	3	142	142		142	426	4.1		
13		Ø12.5	3	142	142		142	426	4.1		
14		Ø12.5	3	142	142		142	426	4.1		
Total+10%									78.9		
(x2)									157.8		
P17	1	Ø10	8	VAR.	VAR.	VAR.	1096	6.8			
	2	Ø10	15	VAR.	VAR.	VAR.	1740	10.7			
	3	Ø8	8	VAR.	VAR.	VAR.	1528	6.0			
	4	Ø8	9	VAR.	VAR.	VAR.	1584	6.3			
	5	Ø8	2	5	185	5	195	390	1.5		
	6	Ø8	2	5	185	5	195	390	1.5		
	7	Ø8	2	5	185	5	195	390	1.5		
	8	Ø12.5	4	30	93		123	492	4.7		
	9	Ø6.3	3		66		66	198	0.7		
	10	Ø12.5	3	133	133	399	3.8				
	11	Ø12.5	3	133	133	399	3.8				
	12	Ø12.5	3	133	133	399	3.8				
Total+10%									56.2		
Ø6.3:									2.7	0.0	
Ø8:									75.8	0.0	
Ø10:									97.1	0.0	
Ø12.5:									17.7	0.0	
Total:									193.3	0.0	

Resumo Aço	Comp. total (m)	Peso+10% (kg)	Total
Fundação			
CA-50	6.3	52.3	14
Ø8	998.0	433	
Ø10	785.5	532	
Ø12.5	489.5	519	
Ø16	43.8	76	1574

Arranques  
nØxx(aa+bb+cc)  
bb  
cc

Referências	Armaduras Cantos	Armaduras Face X	Armaduras Face Y
P1, P4, P10, P15, P16, P17 e P19	4Ø12.5 (30+53+47)		
P2	4Ø18 (30+53+60)		
P3 e P7	4Ø12.5 (30+53+94)		
P5	4Ø12.5 (30+73+47)	2Ø12.5 (30+73+47)	
P6	4Ø18 (30+73+60)		6Ø12.5 (30+73+60)
P8	4Ø12.5 (30+53+47)	4Ø12.5 (30+53+47)	
P9, P13 e P14	4Ø12.5 (30+53+47)		2Ø12.5 (30+53+47)
P11	4Ø18 (30+63+50)		2Ø18 (30+63+60)
P12 e P18	4Ø12.5 (30+53+47)		4Ø12.5 (30+53+47)

Projeto: TCC Data: Outubro de 2016

UNIS

Nome: LEANDRO WILLIAN DE FRETAS

Des.no.: Planta: DETALHAMENTO - BLOCOS DE FUNDAÇÃO

ESCALAS: 1:75

PRANCHA 03