



Elemento	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	Ø10	2	944	1888	11.6	
	2	Ø10	2	944	1888	11.6	
	3	Ø5	55	84	4620		7.3
Total+10%:						25.5	8.0
V 2	1	Ø10	2	944	1888	11.6	
	2	Ø10	2	944	1888	11.6	
	3	Ø5	55	84	4620		7.3
Total+10%:						25.5	8.0
V 3	1	Ø10	2	935	1870	11.5	
	2	Ø10	2	944	1888	11.6	
	3	Ø5	56	84	4704		7.4
Total+10%:						25.4	8.1
V 4	1	Ø10	2	944	1888	11.6	
	2	Ø10	2	944	1888	11.6	
	3	Ø5	56	84	4704		7.4
Total+10%:						25.5	8.1
V 5	1	Ø10	2	674	1348	8.3	
	2	Ø10	2	674	1348	8.3	
	3	Ø5	39	84	3276		5.1
Total+10%:						18.3	5.6
V 6	1	Ø10	2	316	632	3.9	
	2	Ø12.5	2	334	668	6.4	
	3	Ø10	1	290	290	1.8	
	4	Ø5	17	84	1428		2.2
Total+10%:						13.3	2.4
V 7	1	Ø10	2	944	1888	11.6	
	2	Ø10	2	944	1888	11.6	
	3	Ø5	55	84	4620		7.3
Total+10%:						25.5	8.0
V 8	1	Ø12.5	1	270	270	2.6	
	2	Ø6.3	1	125	125	0.3	
	3	Ø12.5	2	480	960	9.2	
	4	Ø10	2	760	1520	9.4	
	5	Ø10	2	855	1710	10.5	
	6	Ø12.5	2	452	904	8.7	
	7	Ø10	2	699	1398	8.6	
	8	Ø10	2	827	1654	10.2	
	9	Ø5	114	84	9576		15.0
Total+10%:						65.5	16.5
V 9	1	Ø10	2	815	1630	10.0	
	2	Ø10	4	744	2976	18.3	
	3	Ø10	2	465	930	5.7	
V 10	1	Ø10	2	819	1638	10.1	
	2	Ø10	2	819	1638	10.1	
	3	Ø5	47	84	3948		6.2
Total+10%:						22.2	6.8
V 11	1	Ø10	2	815	1630	10.0	
	2	Ø10	2	790	1580	9.7	
	3	Ø10	2	475	950	5.9	
	4	Ø10	2	787	1574	9.7	
	5	Ø10	2	749	1498	9.2	
	6	Ø10	2	447	894	5.5	
	7	Ø5	117	84	9828		15.4
Total+10%:						55.0	16.9
Ø5:						0.0	0.0
Ø6.3:						0.3	0.0
Ø10:						326	0.0
Ø12.5:						30.0	0.0
Total:						356	106

Vigas Baldrames
 Concreto: C25, em geral
 Aço das barras: CA-50 e CA-60
 Aço dos estribos: CA-50 e CA-60
 Escala vigas 1:75
 Escala seções 1:20
 Escala Planta de Forma 1:75

Resumo Aço Vigas Baldrames	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø6.3	1.3	0	
Ø10	481.5	326	
Ø12.5	28.0	30	356
CA-60 Ø5	611.5	106	462
Total			462

Projeto: **TCC** Data: **Outubro de 2016**

UNIS

Nome: **LEANDRO WILLIAN DE FRETAS**

Des.no.: **Planta: DETALHAMENTO - VIGAS BALDRAMES**

ESCALAS: **1:20 - 1:75**

PRANCHA **05**