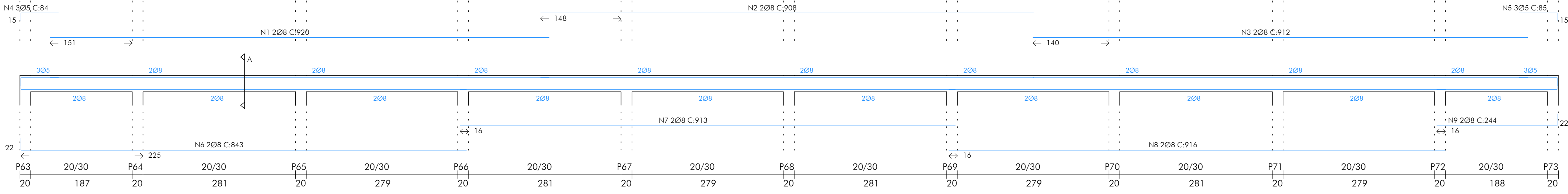


VIGAS BALDRAME DA ARQUIBANCADA

VB53 A VB56 E VB76

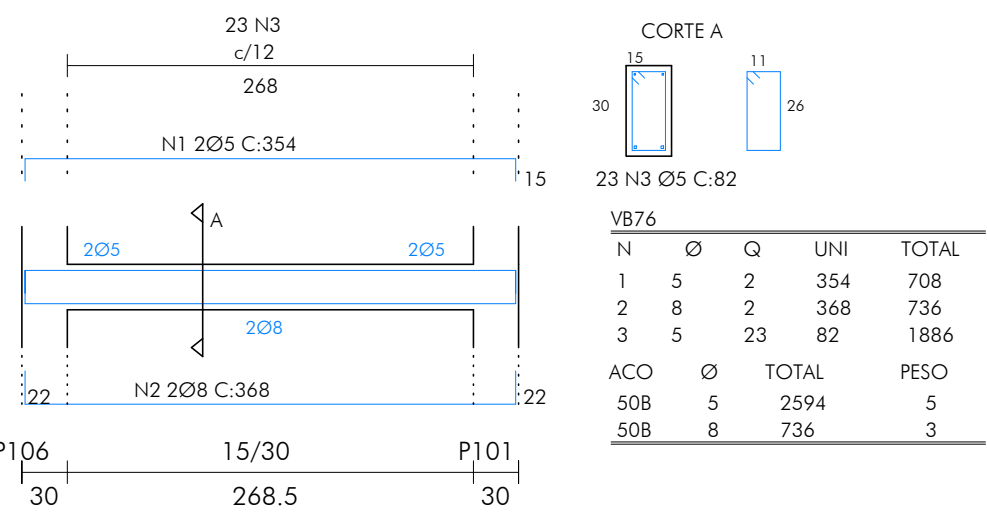
ESCALA 1:50

VB53 (20x30)



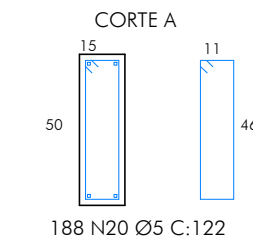
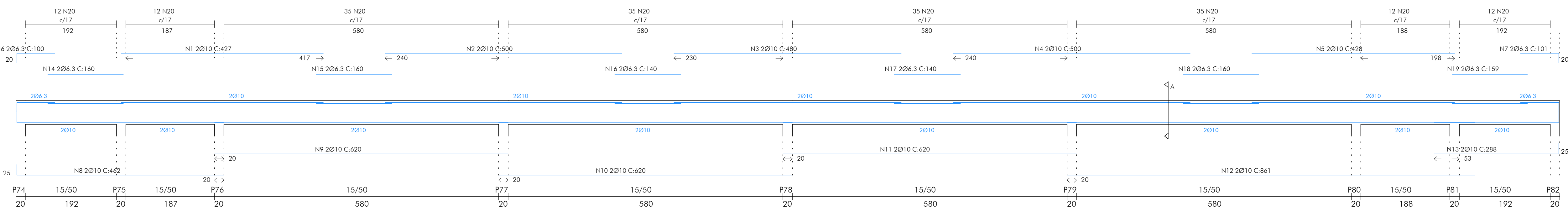
VB53	N	Ø	Q	UNI	TOTAL
1	8	2	920	1840	
2	8	2	908	1816	
3	8	2	912	1824	
4	5	3	84	252	
5	5	3	85	255	
6	8	2	843	1686	
7	8	2	913	1826	
8	8	2	916	1832	
9	8	2	244	488	
10	5	224	92	20608	
ACO	Ø	TOTAL	PESO		
508	5	21115	34		
508	8	11312	46		

VB76 (15x30)



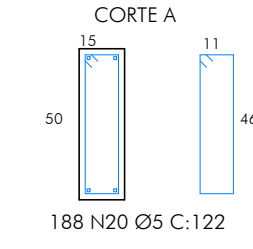
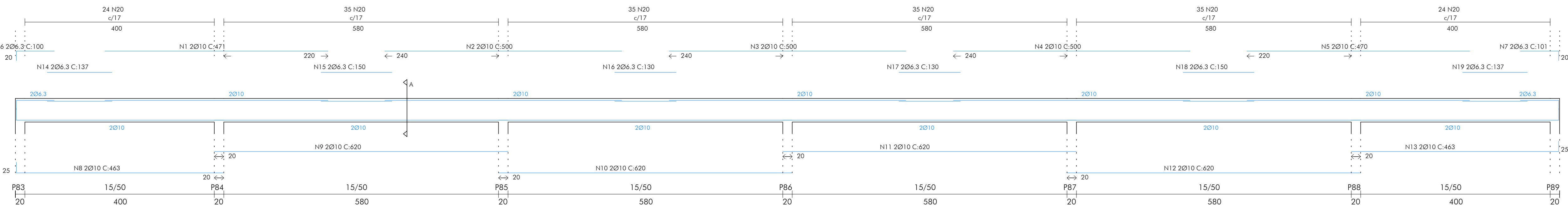
VB76	N	Ø	Q	UNI	TOTAL
1	5	2	354	708	
2	8	2	368	736	
3	5	23	82	1886	
ACO	Ø	TOTAL	PESO		
508	5	2594	5		
508	8	736	3		

VB54 (15x50)



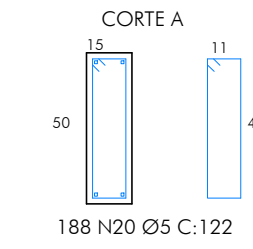
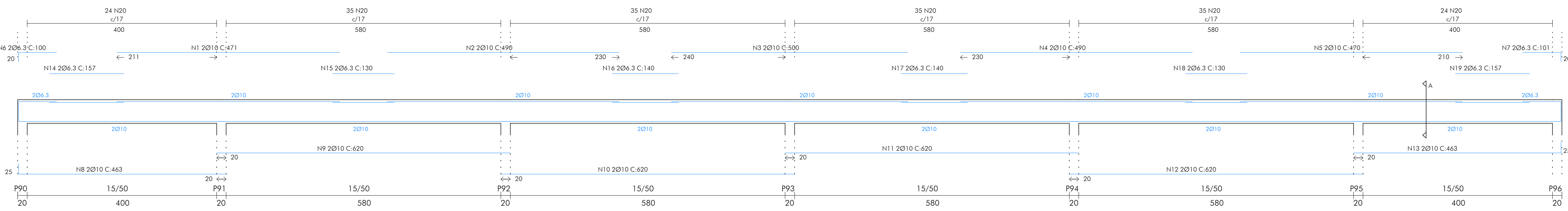
VB54	N	Ø	Q	UNI	TOTAL
1	10	2	427	854	
2	10	2	500	1000	
3	10	2	480	960	
4	10	2	500	1000	
5	10	2	428	856	
6	6.3	2	100	200	
7	6.3	2	101	202	
8	10	2	462	924	
9	10	2	620	1240	
10	10	2	620	1240	
11	10	2	620	1240	
12	10	2	861	1722	
13	10	2	288	576	
14	6.3	2	160	320	
15	6.3	2	160	320	
16	6.3	2	140	280	
17	6.3	2	140	280	
18	6.3	2	160	320	
19	6.3	2	159	318	
20	5	188	122	22936	
ACO	Ø	TOTAL	PESO		
508	5	22936	37		
508	6.3	2240	6		
508	10	11612	74		

VB55 (15x50)



VB55	N	Ø	Q	UNI	TOTAL
1	10	2	471	942	
2	10	2	500	1000	
3	10	2	500	1000	
4	10	2	500	1000	
5	10	2	470	940	
6	6.3	2	100	200	
7	6.3	2	101	202	
8	10	2	463	926	
9	10	2	620	1240	
10	10	2	620	1240	
11	10	2	620	1240	
12	10	2	620	1240	
13	10	2	463	926	
14	6.3	2	137	274	
15	6.3	2	150	300	
16	6.3	2	130	260	
17	6.3	2	130	260	
18	6.3	2	150	300	
19	6.3	2	137	274	
20	5	188	122	22936	
ACO	Ø	TOTAL	PESO		
508	5	22936	37		
508	6.3	2070	6		
508	10	11694	74		

VB56 (15x50)



VB56	N	Ø	Q	UNI	TOTAL
1	10	2	471	942	
2	10	2	490	980	
3	10	2	500	1000	
4	10	2	490	980	
5	10	2	470	940	
6	6.3	2	100	200	
7	6.3	2	101	202	
8	10	2	463	926	
9	10	2	620	1240	
10	10	2	620	1240	
11	10	2	620	1240	
12	10	2	620	1240	
13	10	2	463	926	
14	6.3	2	157	314	
15	6.3	2	130	260	
16	6.3	2	140	280	
17	6.3	2	140	280	
18	6.3	2	130	260	
19	6.3	2	157	314	
20	5	188	122	22936	
ACO	Ø	TOTAL	PESO		
508	5	22936	37		
508	6.3	2110	6		
508	10	11654	74		

QUADRO REVISÕES:

REVISÃO	REFERÊNCIA	DESCRIÇÃO	DATA	APROVAÇÃO
1				
2				

FERRAGENS:

ACO	Ø	L	peso	F=10%
CA	(mm)	(m)	(kg)	(kg)
508	5.0	926	131	144
508	6.3	65	16	18
508	8.0	121	47	51
508	10.0	350	197	217
508	12.5	---	---	---
508	16.0	---	---	---
508	20.0	---	---	---

ANCORAGEM:

RELA E COM GANCHO			ACO CASO B
Fck=20.0MPa	Ø(mm)	Lbr(cm)	Lbq(cm)
5.0	21.0	9+(5)	---
6.3	28.1	11.5+(5)	---
8.0	35.1	14.5+(5)	---
10.0	42.1	18+(5)	---
12.5	56.1	22.5+(5)	---
16.0	70.1	29+(5)	---
20.0	84.2	49+(5)	---

CONCRETO:

Fck (MPa)	fcd (MPa)	fctd (MPa)	fctd (MPa)
20.0	13.3	1.2	1.2

TRACÇO EM VOLUME: 1:2.5:2.5
FATOR AGREGAMENTO: 0.98
SLUMP: 6+2

VOLUME DE CONCRETO: 9.2 m³
CONCRETO CP 30.4: 53.4 m³
AREIA: 60.0 m³
ÁGUA: 1587.8 l

NOTAS:
1- VIDE DETALHAMENTO DAS ARMADURAS DAS VIGAS BALDRAME NAS FRANCHAS DE NÚMERO: 07, 08, 09, 10, 11 e 12/20.
2- VIDE DETALHAMENTO DAS ARMADURAS DOS PLURES NAS FRANCHAS DE NÚMERO: 02 e 03/20.

OBSERVAÇÕES:

LEGENDA:

FORÇA: GINÁSIO POLIESPORTIVO - CENTRO DE EVENTOS

CLIENTE: Prefeitura Municipal Santa Rita do Sapucaí

TÍTULO: PROJETO E CÁLCULO ESTRUTURAL

ESTRUTURA DE CONCRETO ARMADO - INFRAESTRUTURA

VIGA BALDRAME - DETALHAMENTO E ARMAÇÃO

VB53 A VB56 E VB76

AUTOR DO PROJETO: CARLOS H. A. ROSSI

DESENHADO POR: C.Rossi

REVISADO POR: C.Rossi

DATA: Jul. 2020

ESCALA: 1:50

INDICADO: centímetro

REVISÃO Nº: emissão

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46.052/DI

51.236/MG

EAN

SRS-G/PRJ/PCE-11