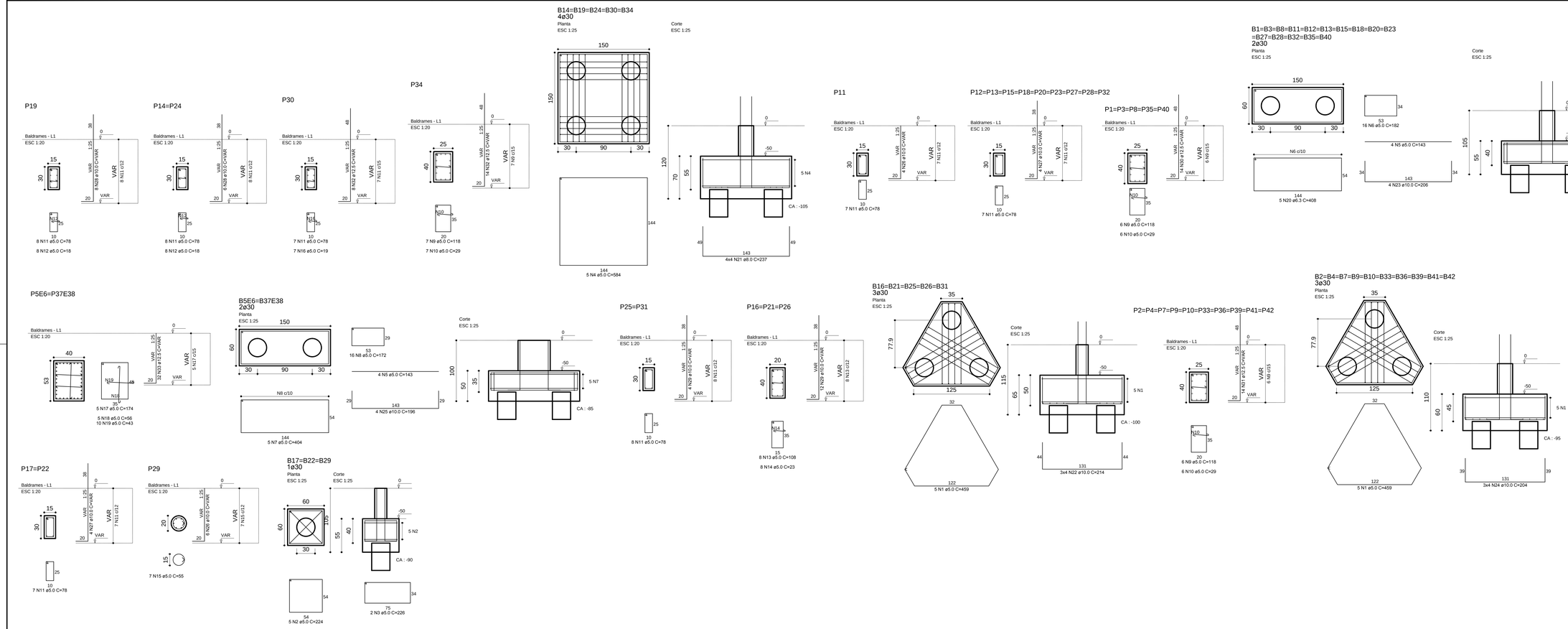


RELAÇÃO DO AÇO

5xB26	3xB29	5xB34
15xB40	10xB42	2xB37E38
5xP1	10xP2	P11
9xP12	2xP14	3xP16
2xP17	P19	2xP25
P29	P30	P34
2xP5E6		

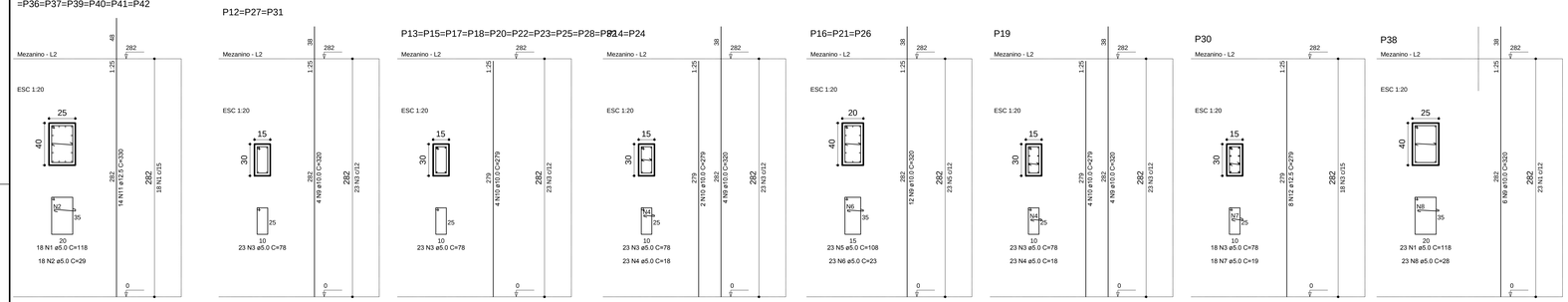
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
50	1	5.0	75	459	34425
	2	5.0	15	224	3360
	3	5.0	6	226	1356
	4	5.0	25	584	14600
	5	5.0	68	143	9724
	6	5.0	240	182	43680
	7	5.0	10	404	4040
	8	5.0	32	172	5504
	9	5.0	97	118	11446
	10	5.0	97	29	2813
	11	5.0	131	78	10218
	12	5.0	24	18	432
	13	5.0	24	108	2592
	14	5.0	24	23	552
	15	5.0	7	55	385
	16	5.0	7	19	133
	17	5.0	10	174	1740
	18	5.0	10	56	560
	19	5.0	20	43	860
	20	6.3	75	408	30600
	21	8.0	80	237	18960
	22	10.0	60	214	12840
	23	10.0	60	206	12360
	24	10.0	120	204	24480
	25	10.0	8	196	1568
	26	10.0	10	VAR	VAR
	27	10.0	44	VAR	VAR
	28	10.0	20	VAR	VAR
	29	10.0	44	VAR	VAR
	30	12.5	70	VAR	VAR
	31	12.5	140	VAR	VAR
	32	12.5	22	VAR	VAR
	33	12.5	64	VAR	VAR

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	5.0	1487.1	229.0
	6.3	306.1	75.0
	8.0	189.9	75.0
	10.0	688.8	424.8
	12.5	433.7	418.0
PESO TOTAL			
CA50	1221.8		

Vol. de concreto total =32.37 m³
Área de forma total = 150.40 m²

P1=P2=P3=P4=P5=P6=P8=P9=P10=P33=P34=P35
=P36=P37=P39=P40=P41=P42



RELAÇÃO DO AÇO

18xP1	3xP12	10xP13
2xP14	3xP16	P19
P30	P38	

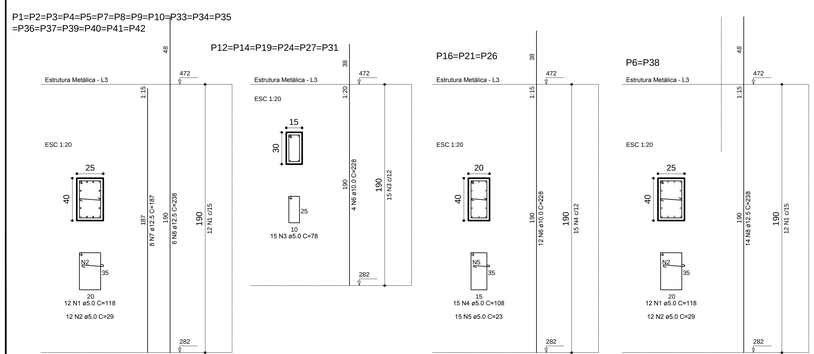
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
50	1	5.0	347	118	40946
	2	5.0	324	29	9396
	3	5.0	386	78	30108
	4	5.0	69	18	1242
	5	5.0	69	108	7452
	6	5.0	69	23	1587
	7	5.0	18	19	342
	8	5.0	23	28	644
	9	10.0	66	320	21120
	10	10.0	48	279	13392
	11	12.5	252	330	83160
	12	12.5	8	279	2232

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	5.0	919.2	141.5
	10.0	345.1	212.8
	12.5	853.9	823.1
PESO TOTAL			
CA50	1177.5		

Vol. de concreto total =8.19 m³
Área de forma total = 122.95 m²

P1=P2=P3=P4=P5=P7=P8=P9=P10=P33=P34=P35
=P36=P37=P39=P40=P41=P42



RELAÇÃO DO AÇO

18xP1	2xP6	6xP12
3xP16		

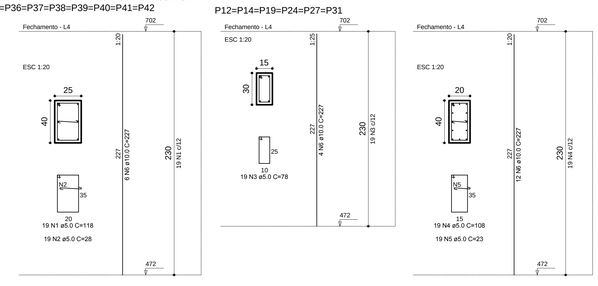
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
50	1	5.0	240	118	28320
	2	5.0	240	29	6960
	3	5.0	90	78	7020
	4	5.0	45	108	4860
	5	5.0	45	23	1035
	6	10.0	60	228	13680
	7	12.5	144	187	26928
	8	12.5	136	238	32368

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	5.0	482.6	74.3
	10.0	136.8	84.4
	12.5	593.0	571.6
PESO TOTAL			
CA50	730.2		

Vol. de concreto total =4.77 m³
Área de forma total = 66.50 m²

P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P33=P34
=P35=P36=P37=P38=P39=P40=P41=P42



RELAÇÃO DO AÇO

20xP1	6xP12	3xP16	

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
50	1	5.0	380	118	44840
	2	5.0	380	28	10640
	3	5.0	114	78	8892
	4	5.0	57	108	6156
	5	5.0	57	23	1311
	6	10.0	180	227	40860

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	5.0	720.3	110.9
	10.0	408.6	252.0
PESO TOTAL			
CA50	362.9		

Vol. de concreto total =5.77 m³
Área de forma total = 80.50 m²

IFF – UEP URUGUAIANA / GINÁSIO

PROJETO ESTRUTURAL

FARROUPILHA

Planta Detalham. Arm. Blocos e Pilares

Proprietário: _____
UEP–Uruguaiana
R. Monteiro Lobato, 4442– Uruguaiana/RS

Prancha E2 02/08

Engª Civil Valter O. S. Olea
CREA RS-144527/D

Área 1.114,41m2

Data Ago/2018

Escala: 1:100