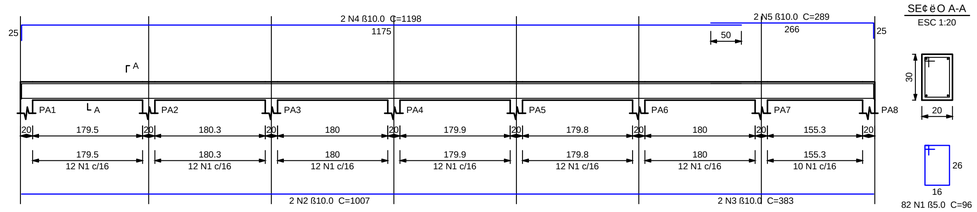
VA SUP1

ESC 1:50

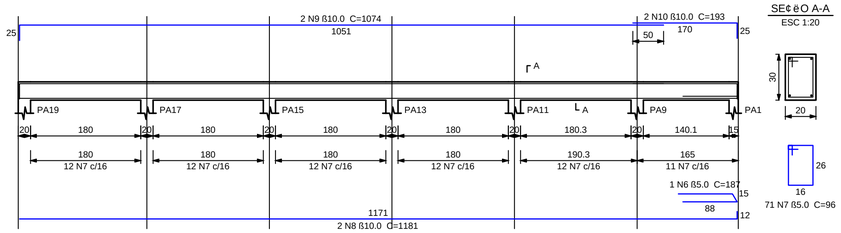


SEÇÃO A-A
ESC 1:20

82 N1 ß5.0 C=96

VA SUP2

ESC 1:50

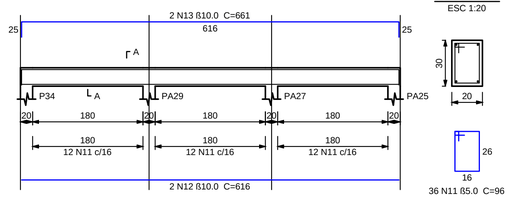


SEÇÃO A-A
ESC 1:20

71 N7 ß5.0 C=96

VA SUP3

ESC 1:50

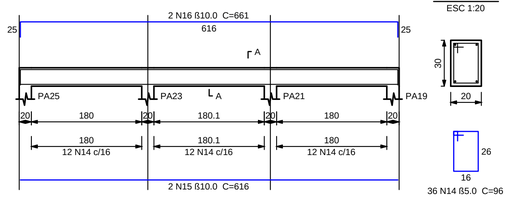


SEÇÃO A-A
ESC 1:20

36 N11 ß5.0 C=96

VA SUP4

ESC 1:50

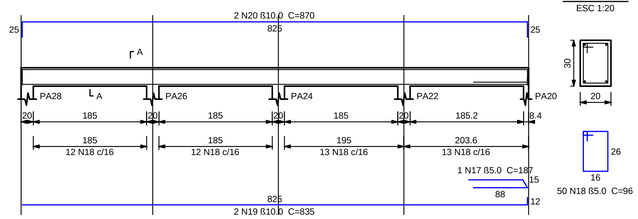


SEÇÃO A-A
ESC 1:20

36 N14 ß5.0 C=96

VA SUP5

ESC 1:50



SEÇÃO A-A
ESC 1:20

50 N18 ß5.0 C=96

Rela-«o do a-o

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
VA SUP1	CA60	1	5.0	82	96	7872
	CA50	2	10.0	2	1007	2014
	CA50	3	10.0	2	383	766
	CA50	4	10.0	2	1198	2396
	CA50	5	10.0	2	289	578
VA SUP2	CA60	6	5.0	1	187	187
	CA60	7	5.0	71	96	6816
	CA50	8	10.0	2	1181	2362
	CA50	9	10.0	2	1074	2148
	CA50	10	10.0	2	193	386
VA SUP3	CA60	11	5.0	36	96	3456
	CA50	12	10.0	2	616	1232
	CA50	13	10.0	2	661	1322
VA SUP4	CA60	14	5.0	36	96	3456
	CA50	15	10.0	2	616	1232
	CA50	16	10.0	2	661	1322
VA SUP5	CA60	17	5.0	1	187	187
	CA60	18	5.0	50	96	4800
	CA50	19	10.0	2	835	1670
	CA50	20	10.0	2	870	1740
VA SUP6	CA60	21	5.0	72	96	6912
	CA50	22	10.0	2	1033	2066
	CA50	23	10.0	2	218	436
	CA50	24	10.0	2	1154	2308
	CA50	25	10.0	2	193	386

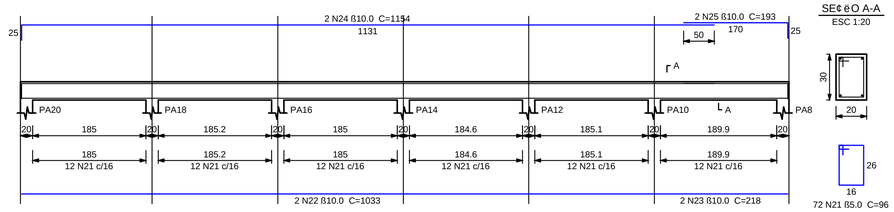
Resumo do a-o

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10.0	243.7	150.2
CA60	5.0	336.9	51.9
PESO TOTAL			
CA50	150.2		
CA60	51.9		

Vol. de concreto total (C-20) = 3.54 mį
Área de forma total = 47.15 mį

VA SUP6

ESC 1:50

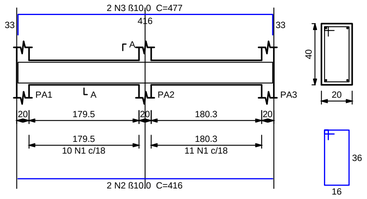


SEÇÃO A-A
ESC 1:20

72 N21 ß5.0 C=96

VA INT1

ESC 1:50

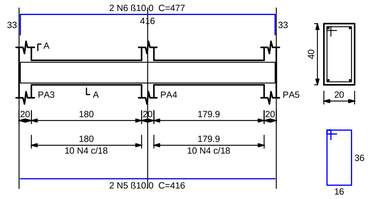


SEÇÃO A-A
ESC 1:20

21 N1 ß5.0 C=116

VA INT2

ESC 1:50

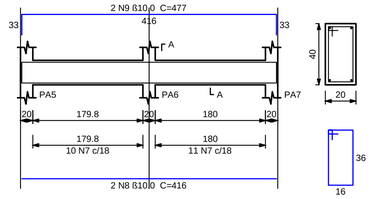


SEÇÃO A-A
ESC 1:20

20 N4 ß5.0 C=116

VA INT3

ESC 1:50

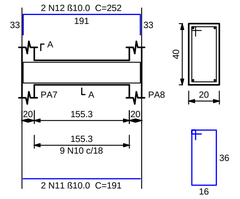


SEÇÃO A-A
ESC 1:20

21 N7 ß5.0 C=116

VA INT4

ESC 1:50

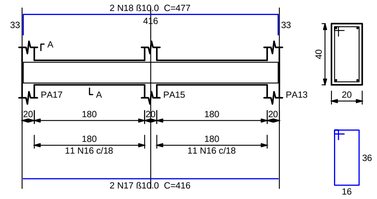


SEÇÃO A-A
ESC 1:20

9 N10 ß5.0 C=116

VA INT6

ESC 1:50



SEÇÃO A-A
ESC 1:20

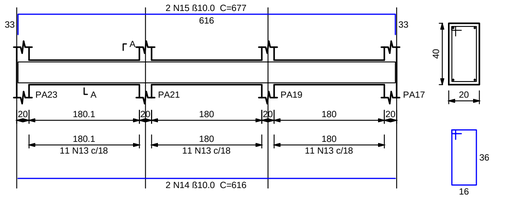
22 N16 ß5.0 C=116

Rela-«o do a-o

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
VA INT1	CA60	1	5.0	21	116	2436
	CA50	2	10.0	2	416	832
	CA50	3	10.0	2	477	954
VA INT2	CA60	4	5.0	20	116	2320
	CA50	5	10.0	2	416	832
	CA50	6	10.0	2	477	954
VA INT3	CA60	7	5.0	21	116	2436
	CA50	8	10.0	2	416	832
	CA50	9	10.0	2	477	954
VA INT4	CA60	10	5.0	9	116	1044
	CA50	11	10.0	2	191	382
	CA50	12	10.0	2	252	504
VA INT5	CA60	13	5.0	33	116	3828
	CA50	14	10.0	2	616	1232
	CA50	15	10.0	2	677	1354
VA INT6	CA60	16	5.0	22	116	2552
	CA50	17	10.0	2	416	832
	CA50	18	10.0	2	477	954
VA INT7	CA60	19	5.0	36	96	3456
	CA50	20	10.0	2	616	1232
	CA50	21	10.0	2	635	1270
VA INT8	CA60	22	5.0	30	116	3480
	CA50	23	10.0	2	567	1134
	CA50	24	10.0	2	628	1256
VA INT9	CA60	25	5.0	24	96	2304
	CA50	26	10.0	2	426	852
	CA50	27	10.0	2	445	890
VA INT10	CA60	28	5.0	24	96	2304
	CA50	29	10.0	2	431	862
	CA50	30	10.0	2	450	900

VA INT5

ESC 1:50

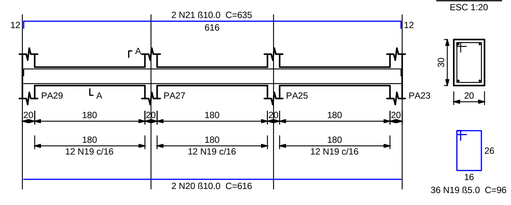


SEÇÃO A-A
ESC 1:20

33 N13 ß5.0 C=116

VA INT7

ESC 1:50

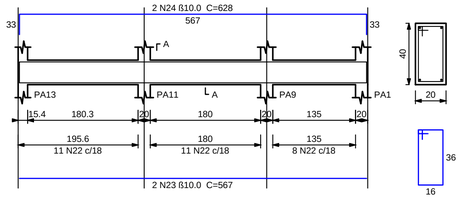


SEÇÃO A-A
ESC 1:20

36 N19 ß5.0 C=96

VA INT8

ESC 1:50



SEÇÃO A-A
ESC 1:20

30 N22 ß5.0 C=116

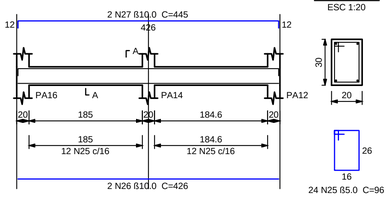
Resumo do a-o

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10.0	190.2	117.2
CA60	5.0	261.6	40.3
PESO TOTAL			
CA50	117.2		
CA60	40.3		

Vol. de concreto total (C-20) = 3.34 mį
Área de forma total = 42.53 mį

VA INT9

ESC 1:50

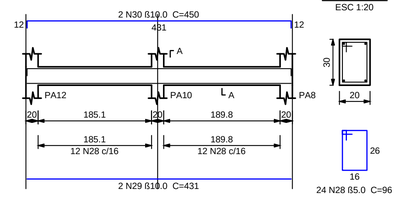


SEÇÃO A-A
ESC 1:20

24 N25 ß5.0 C=96

VA INT10

ESC 1:50



SEÇÃO A-A
ESC 1:20

24 N28 ß5.0 C=96

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TÍTULO : PROJETO DE CONSTRUÇÃO RESIDENCIAL — DATA 05/2014
LOCAL :
CLIENTE :

ASSUNTO :

ENG°. HÉBERT COMEGNO ASAM CREA 5060488363/D
PÓS GRADUADO EM ENGENHARIA DE ESTRUTURAS
RUA ANHANGUERA , N° 6-47 , CEP 17013-190

Fck ≥20MPa

FOLHA N°. : 03/03