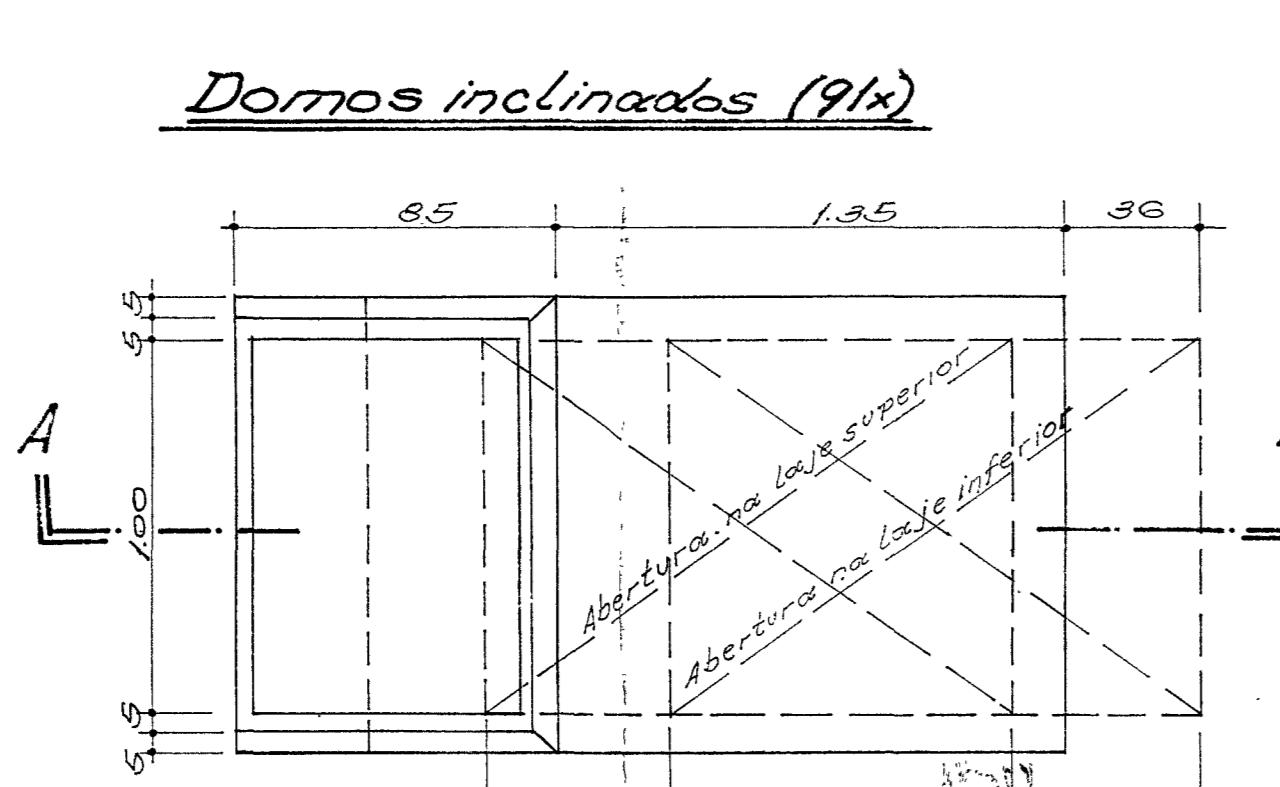
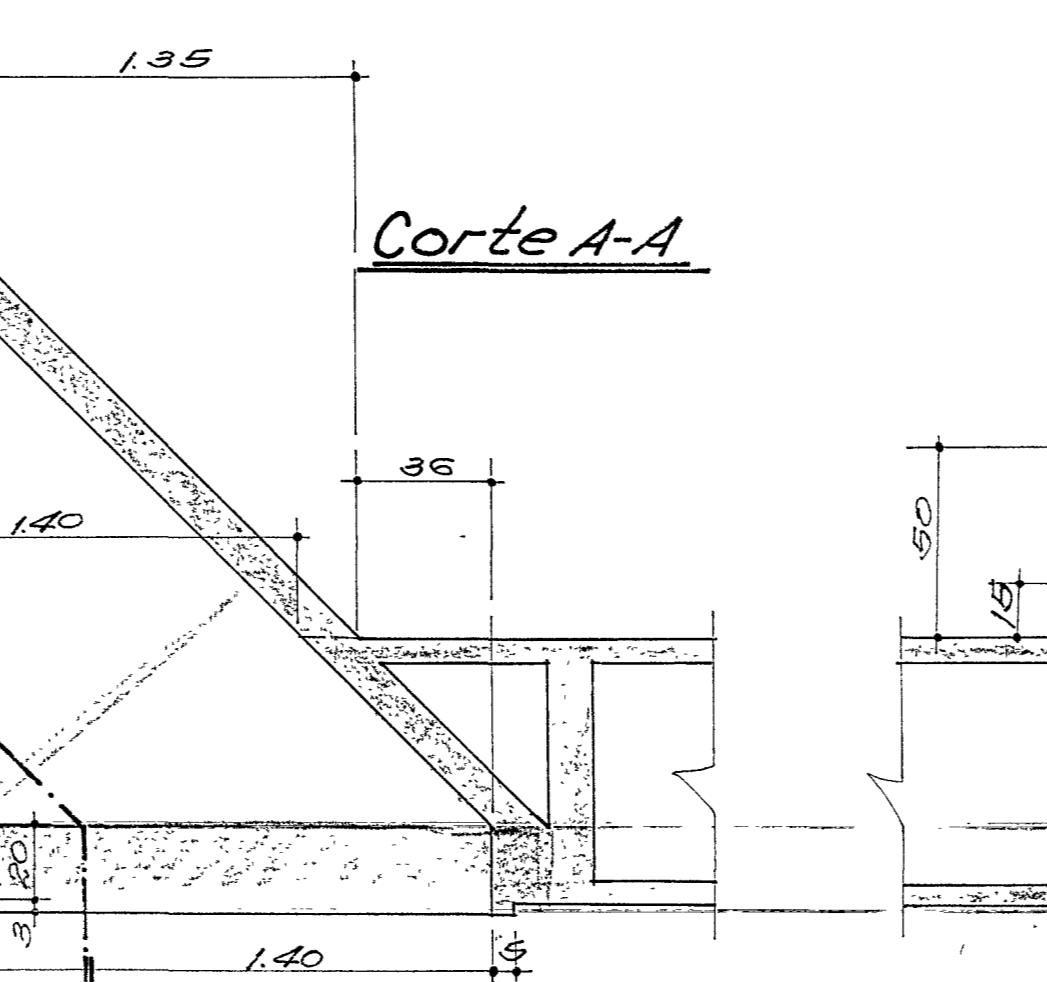


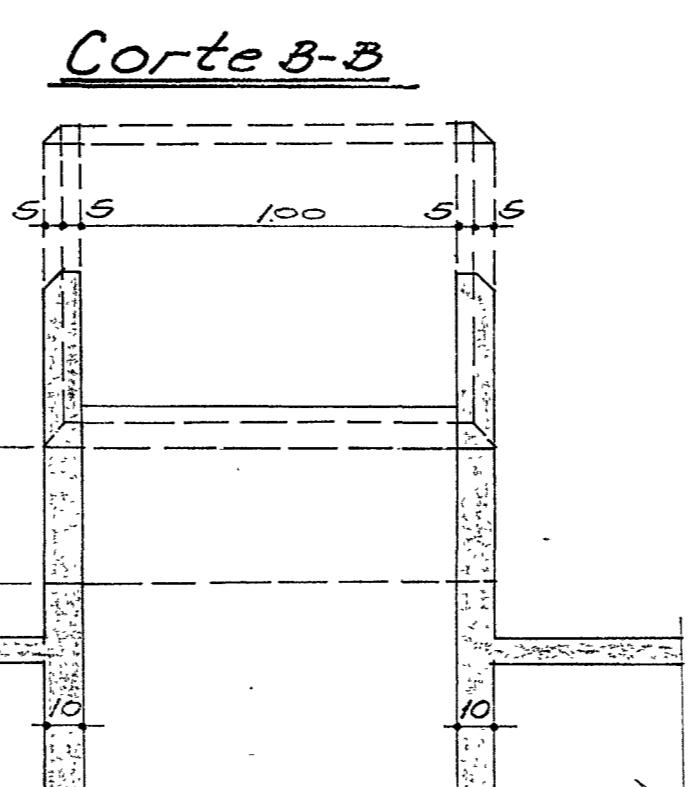
Domos inclinados (9x6)



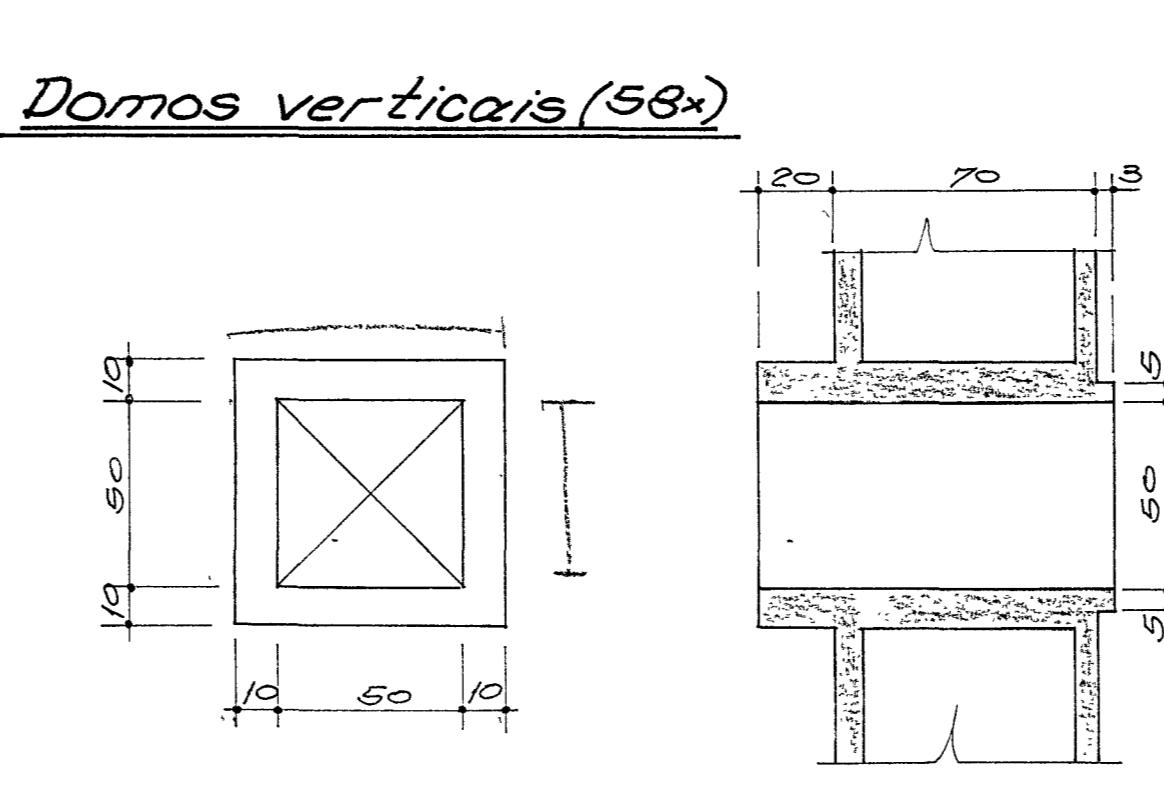
Corte A-A



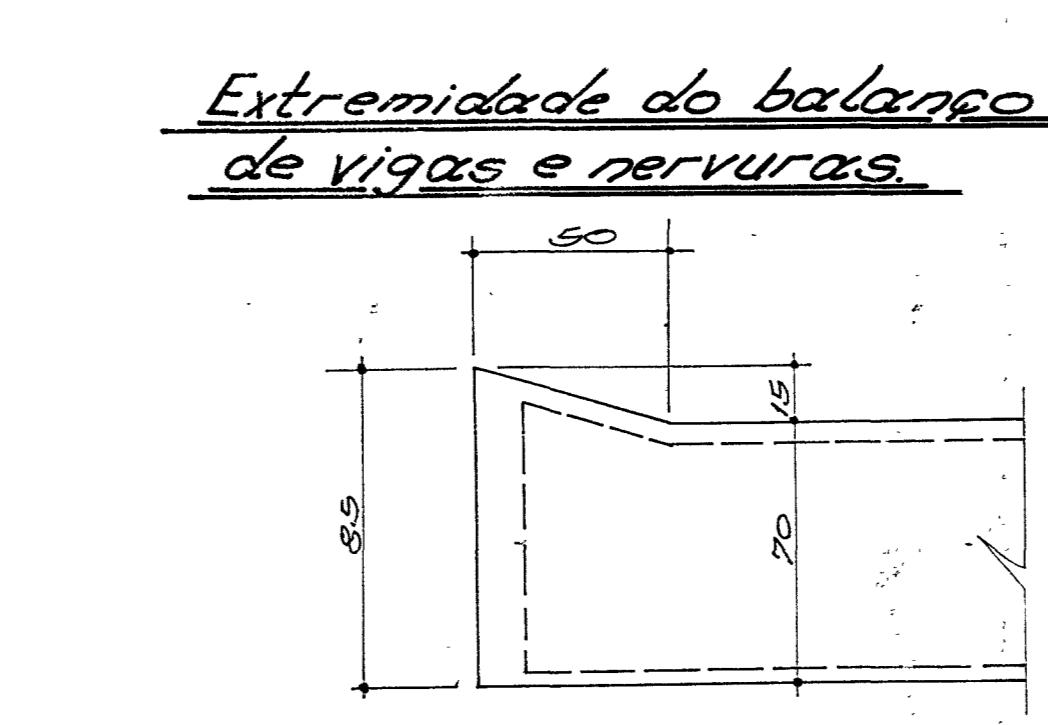
Corte B-B

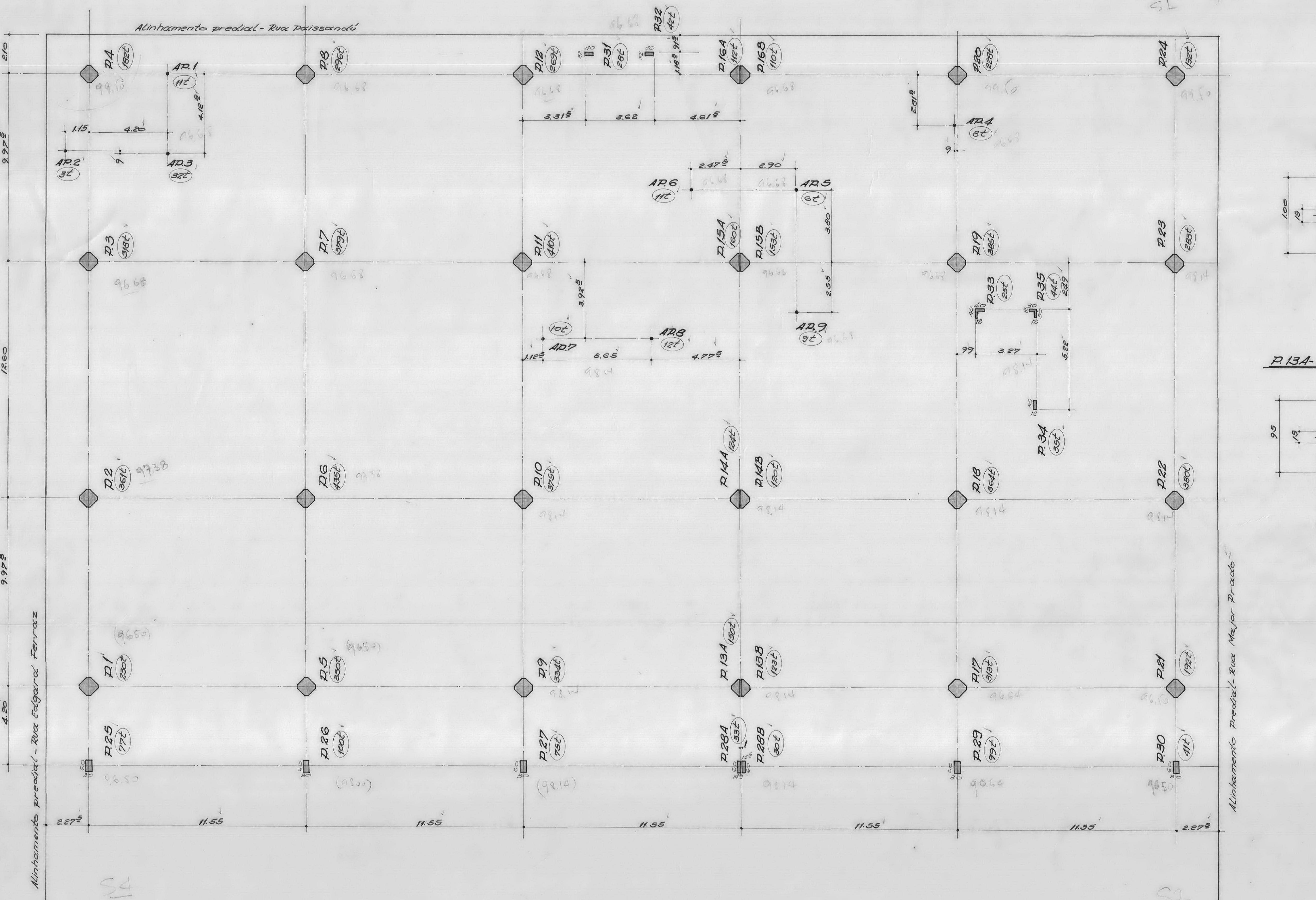


Domos verticais (5x6)



Extremidade do balanço
de vigas e nervuras





a	MODIFICAÇÕES			
b				
c				
d				
e				

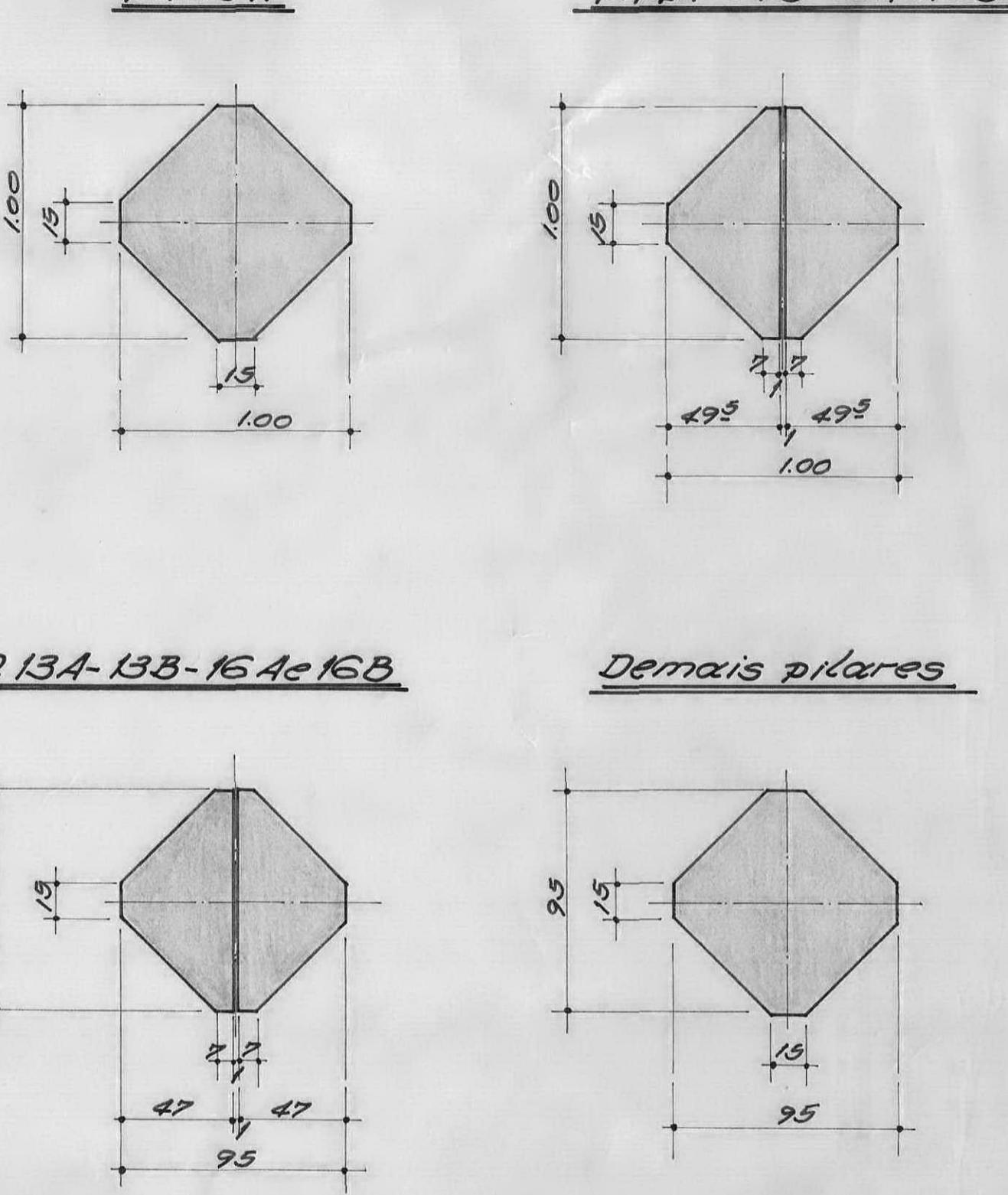
VASCONCELOS - VIEIRA
ENGENHEIROS ESTRUTURAIS LTDA.
RUA JAGUARIBE, 465 - 2.º - S. PAULO
FONE 51-6595

OBRA
Centro cívico de Jahu

MATERIAIS
CONCRETO:
AÇO:

VISTO:
Locação e cargas
dos pilares 729
11

DATA 30-4-68 ESC 1:50-1:25



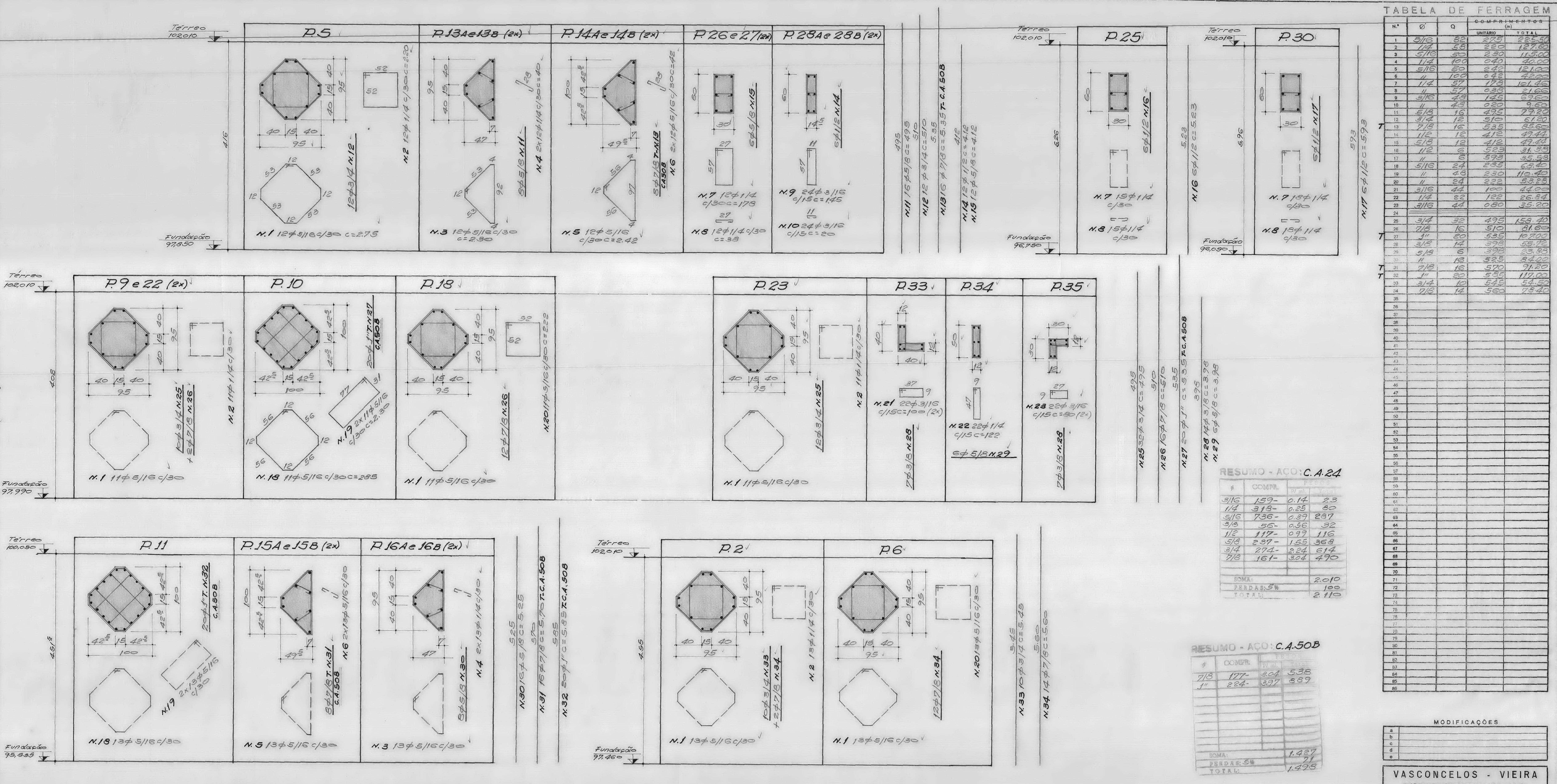
VERIFICAR AS MEDIDAS NA OBRA

MATERIAIS
CONCRETO:
AÇO:

M.G.-G.I.

TABELA DE FERRAGEM

N.º	\varnothing	Q	COMPRIMENTOS (m)	
			UNITÁRIO	TOTAL
1	5/16	82	225,50	225,50
2	1/4	55	220	127,00
3	5/16	50	230	115,00
4	1/4	100	040	40,00
5	5/16	50	240	121,00
6		100	040	40,00
7	1/4	57	175	101,45
8	1/4	57	235	216,65
9	3/16	49	125	67,65
10	1/4	43	020	9,60
11	5/16	16	435	79,20
12	3/16	12	510	61,20
13	7/16	16	535	85,60
14	1/2	12	412	47,44
15	5/16	12	412	47,44
16	1/2	6	523	31,35
17	1/4	6	593	35,55
18	5/16	24	230	69,40
19	1/4	24	230	53,25
20	1/4	22	122	26,94
21	3/16	44	100	44,00
22	1/4	22	122	26,94
23	3/16	44	080	25,20
24				
25	3/16	32	495	158,40
26	7/16	16	510	81,60
27	1/4	20	535	102,00
28	3/16	14	392	55,72
29	5/16	6	372	23,88
30	1/2	6	525	34,00
31	7/16	16	570	91,20
32	1/4	20	556	117,00
33	3/16	10	545	54,50
34	7/16	14	560	79,40
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RESUMO - AÇO: C.A.24			
#	COMPRA P/M.	PESO T/M.	SOMA: PERDAS: 5% TOTAL:
5/16	159-	0,14	2,3
1/4	319-	0,25	80
5/16	736-	0,39	287
3/16	55-	0,06	32
1/2	117-	0,99	116
5/16	237-	1,55	368
3/16	271-	2,24	614
7/16	161-	3,04	490
SOMA:			2.010
PERDAS: 5%			100
TOTAL:			2.110

RESUMO - AÇO: C.A.50B			
#	COMPRA P/M.	PESO T/M.	SOMA: PERDAS: 5% TOTAL:
7/16	177-	3,04	538
1"	284-	3,97	887
SOMA:			1.427
PERDAS: 5%			71
TOTAL:			1.498

a	b	c	d	e

VASCONCELOS - VIEIRA
ENGENHEIROS ESTRUTURAIS LTDA.
RUA JAGUARIBE, 465 - 2^o - S. PAULO
FONE 51-6595

OBRA	MATERIAIS	VISTO:
Centro cívico de Jahu	Armadilhão parcial dos pilares entre fundação e terreno	729 / 19
	AÇO: C.A.24 - C.A.50B	

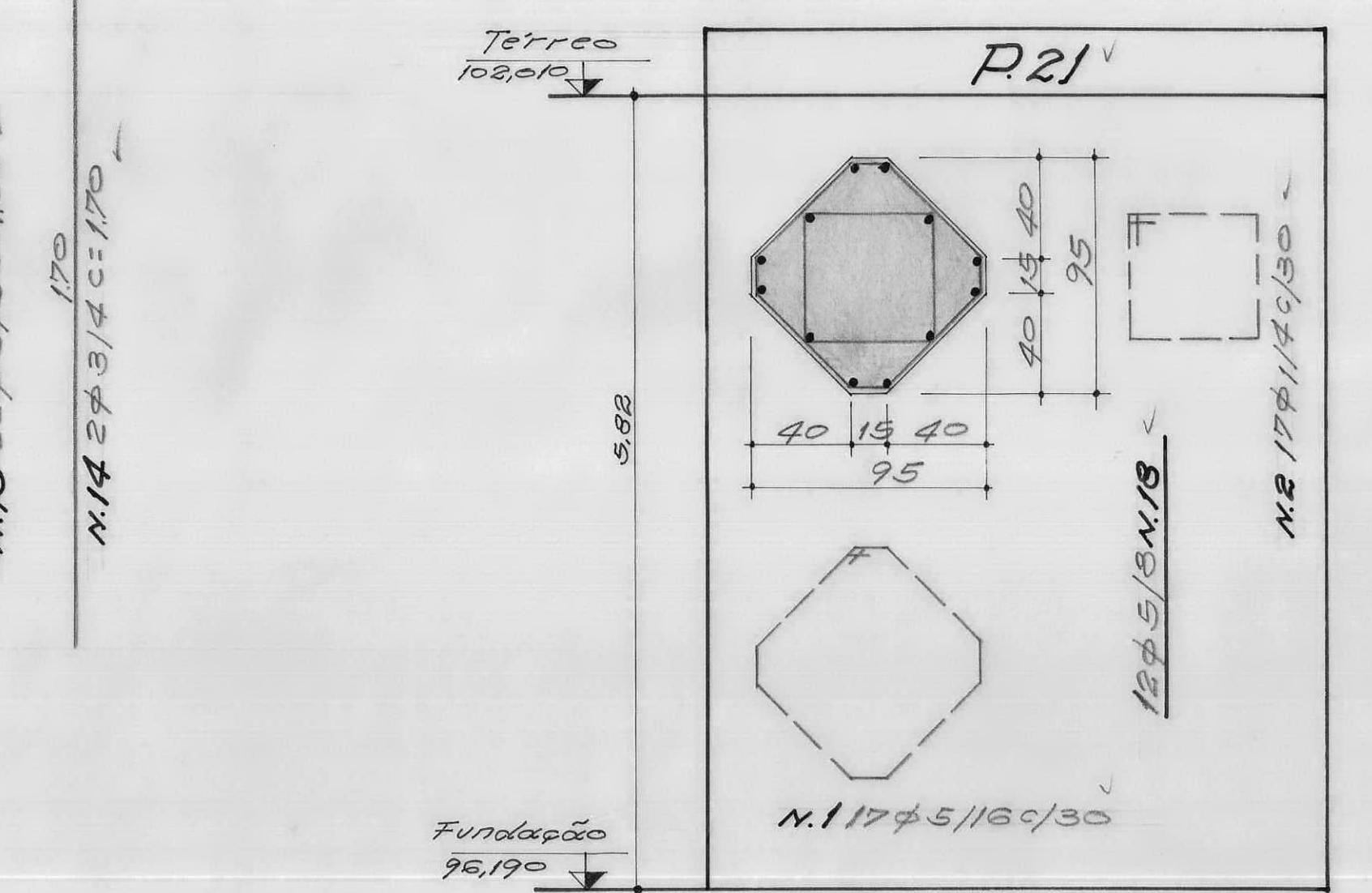
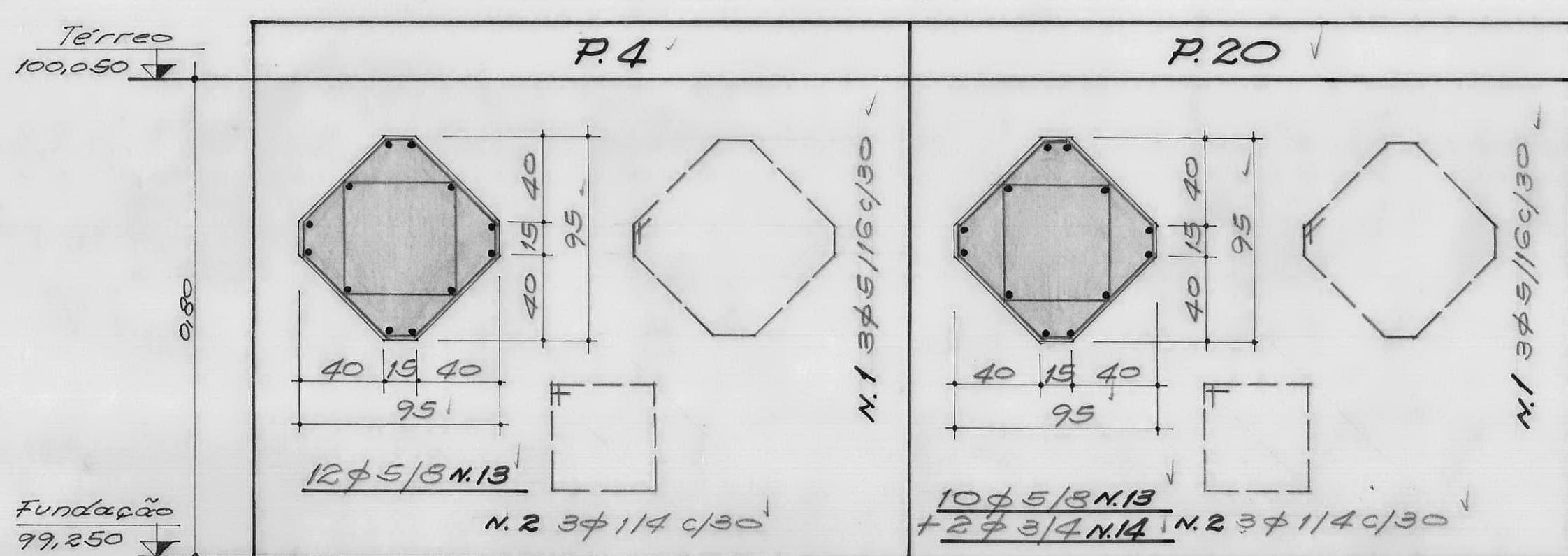
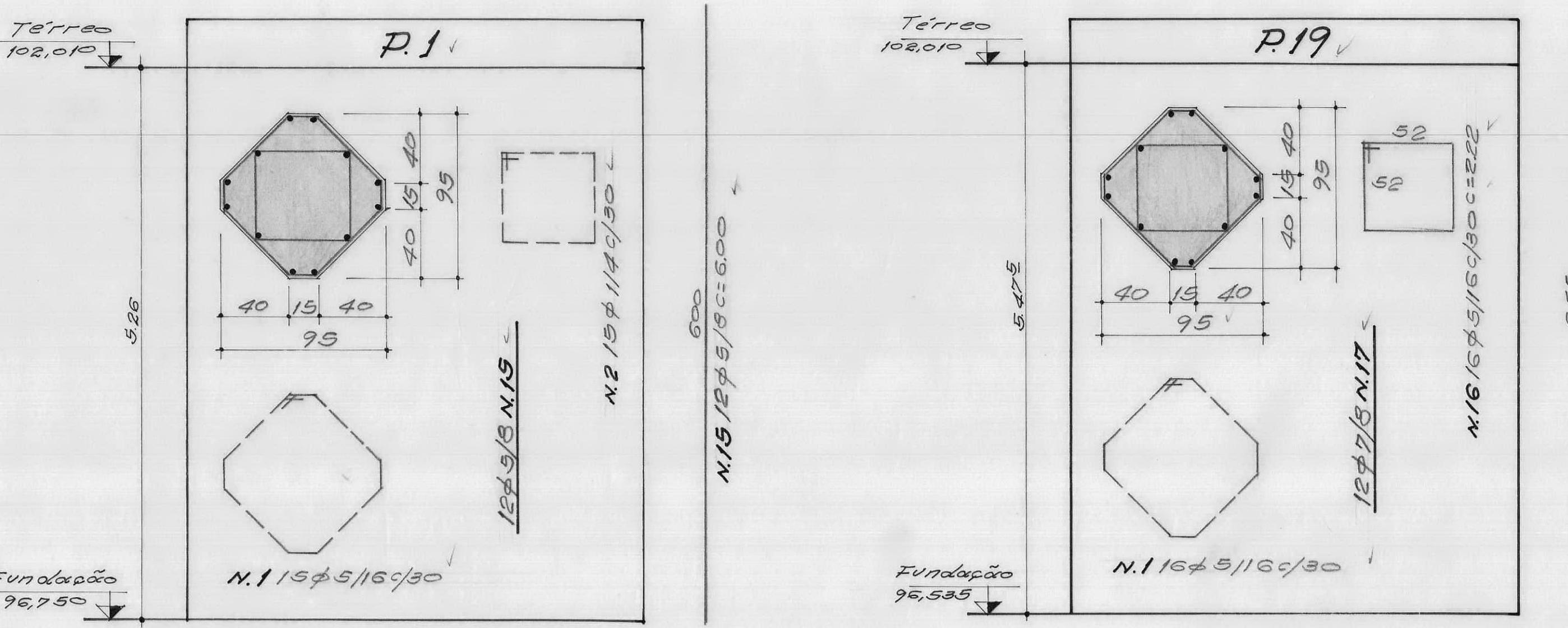
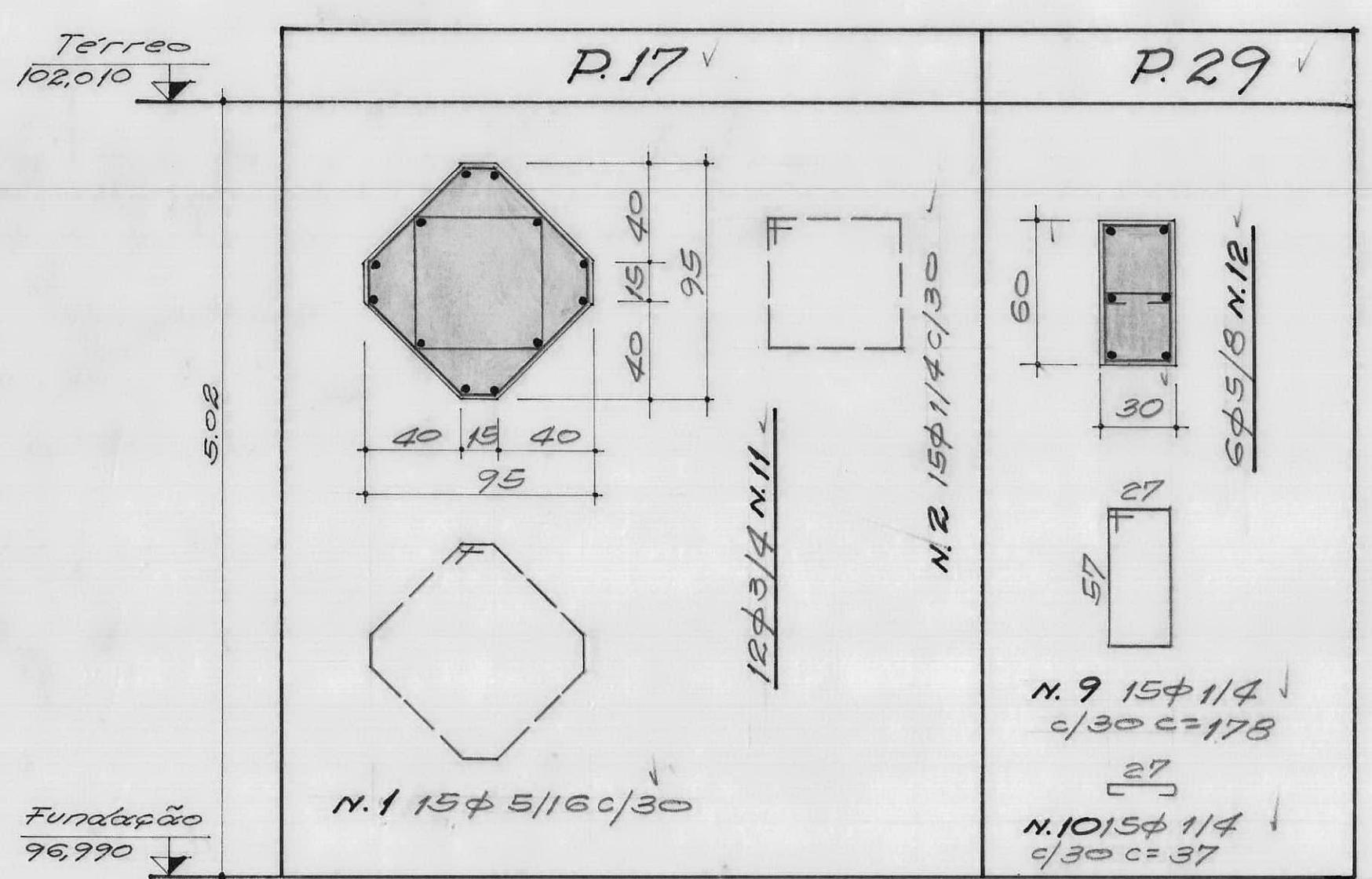
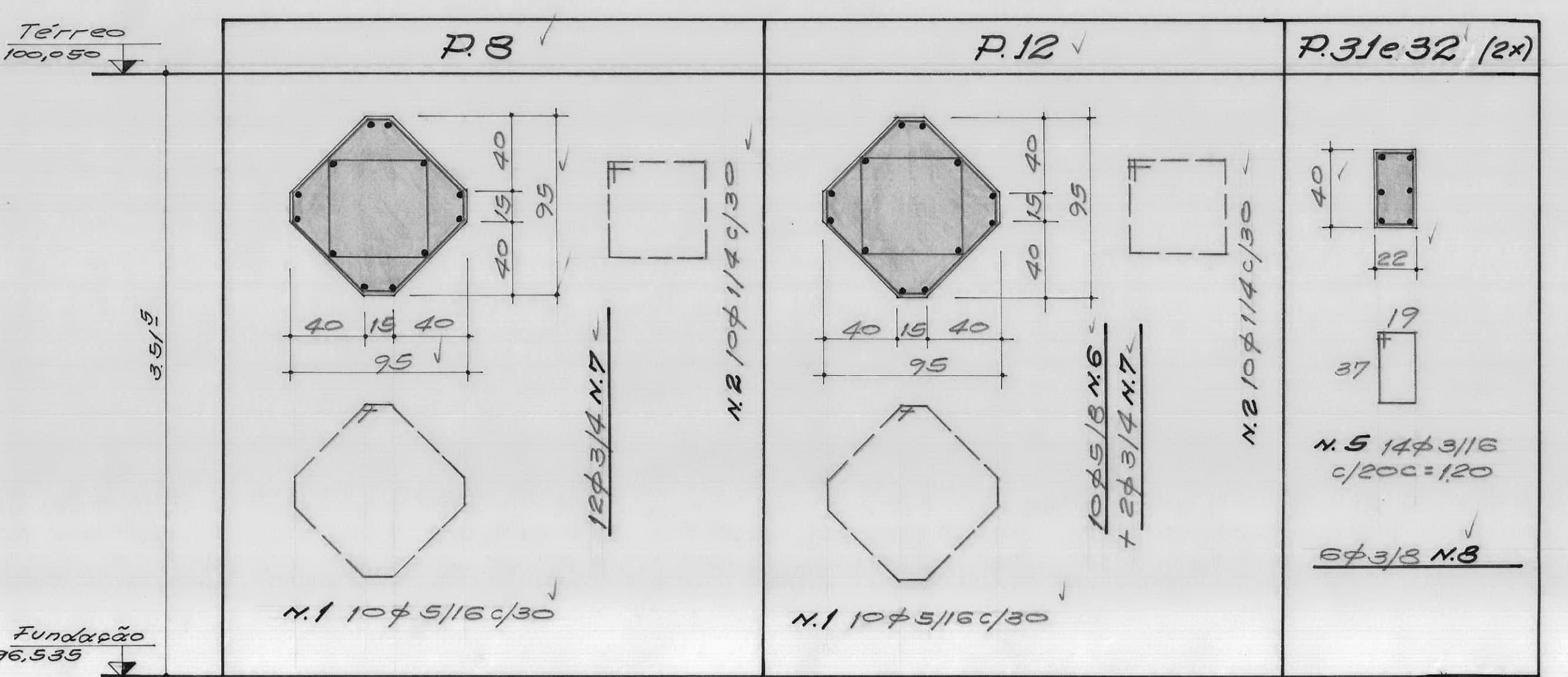
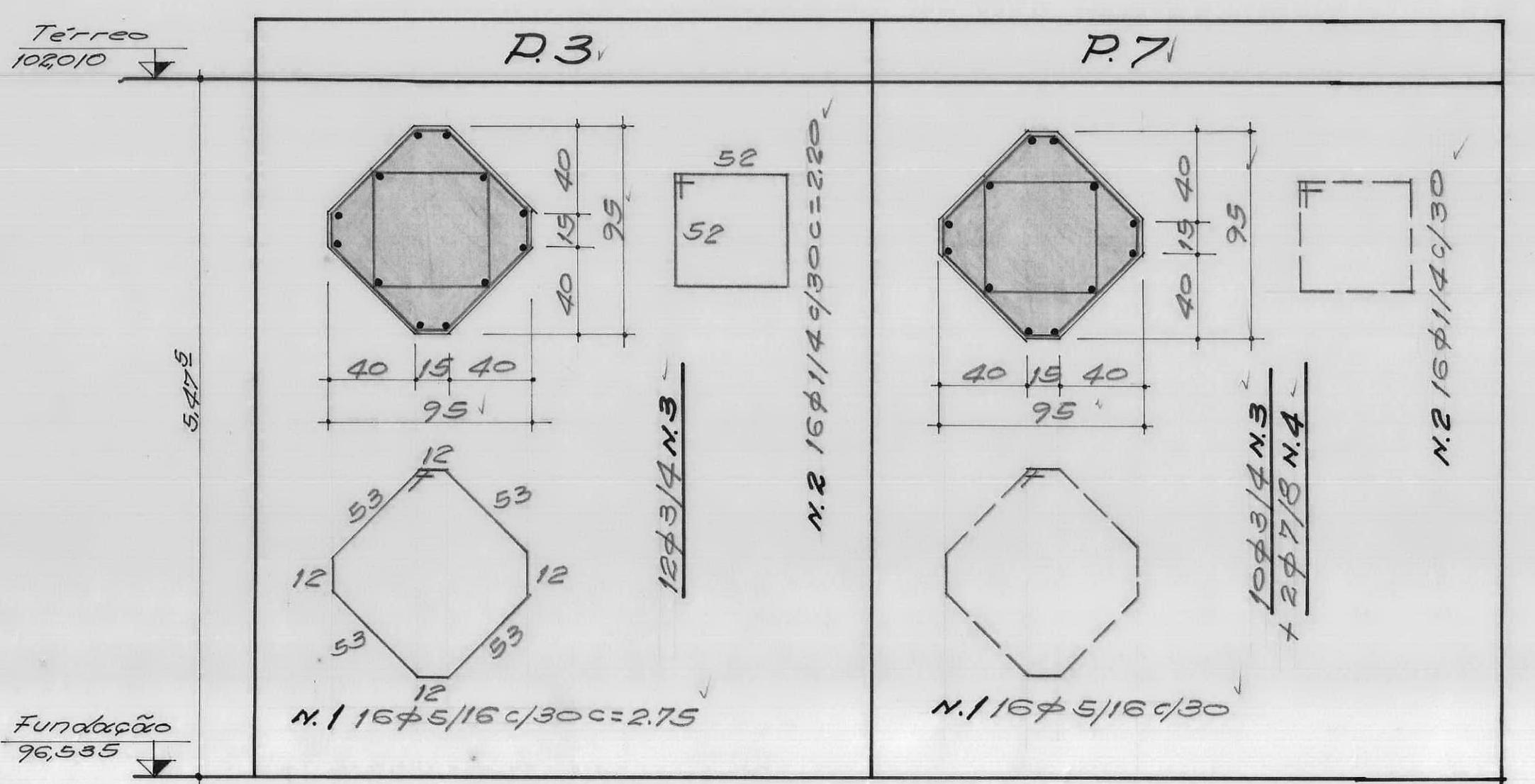
DATA 12-8-68 ESC. 1:25

MATERIALS
CONCRETO: 0,150 kg/cm²
AÇO: C.A.24 - C.A.50B

VERIFICAR AS MEDIDAS NA OBRA

TABELA DE FERRAGEM

N.º	Ø	Q	COMPRIMENTOS (m)
			UNITÁRIO TOTAL
1	5/16	121	275 332,75
2	1/4	102	220 231,00
3	3/16	27	640 140,80
4	7/16	2	655 13,10
5	3/8	25	120 33,60
6	5/16	10	430 43,00
7	3/4	14	445 62,30
8	3/16	12	348 41,76
9	1/4	15	128 26,70
10	11/16	15	037 5,55
11	3/4	12	575 71,40
12	5/16	6	500 30,00
13	11/16	22	155 34,10
14	3/4	2	170 3,40
15	5/16	12	620 72,00
16	5/16	16	222 35,52
17	7/16	12	655 73,60
18	5/16	12	660 72,80
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#	CODIF.	PESO
		PER MIL. TOTAL
3/16	34-	0.14 5
1/4	264-	0.25 66
3/16	369-	0.39 142
3/8	42-	0.56 24
5/8	259-	1.55 402
3/4	291-	2.24 652
7/16	92	3.04 280
		SOMA: 1.571
		PERDAS: 5%
		TOTAL: 1.649

MODIFICAÇÕES

a
b
c
d

VASCONCELOS - VIEIRA
ENGENHEIROS ESTRUTURAIS LTDA.
RUA JAGUARIBE, 465 - 2º - S. PAULO
FONE 51-6595

OBRA
Centro cívico de Jacuí
Armação complementar das pilares entre fundação e terreno
VISTO:
MATERIAIS
CONCRETO: GR. 150 kg/cm²
AÇO: C.A. 24
DATA 14-8-68 ESC. 1:25

MATERIAIS
CONCRETO: GR. 150 kg/cm²
AÇO: C.A. 24
VERIFICAR AS MEDIDAS NA OBRA

TABELA DE FERRAGEM

N.	\varnothing	Q	COMPRIMENTOS (m)	TOTAL
1	5/16"	201	2.75	552.25
2	11	201	2.20	442.20
3	11	24	2.50	1.012.20
4	1/2"	55	0.60	35.20
5	1/2"	84	4.55	380.52
6	5/8"	112	4.65	524.76
7	3/4"	40	4.80	193.60
8	1/2"	13	5.55	69.95
9	5/8"	22	2.85	62.70
10	11	24	2.30	101.20
11	11	44	2.42	106.48
12	1/4"	55	2.00	35.20
T10	7/8"	72	5.05	363.60
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RESUMO - AÇO: C.A.24		
#	COMPR.	PESOS
1/4"	71	0.25 18
5/16"	1867	0.39 534
1/2"	445	0.99 441
5/8"	525	1.55 814
3/4"	194	2.24 502
SOMA:		2.309
PERDAS: 5%		116
TOTAL:		2425

RESUMO - AÇO: C.A.50B		
#	COMPR.	PESOS
7/8"	364	305 1.067

a	
b	
c	
d	
e	

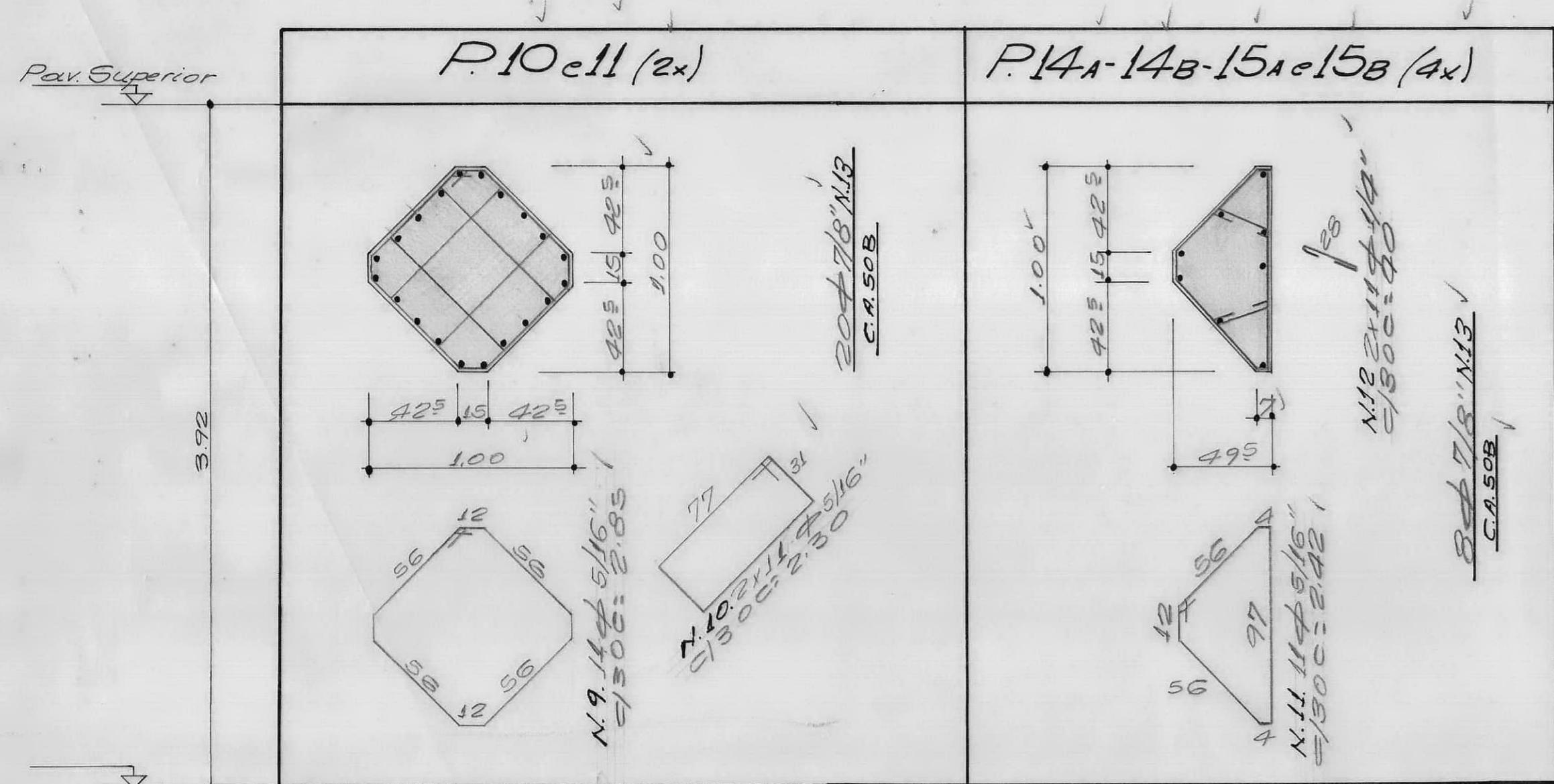
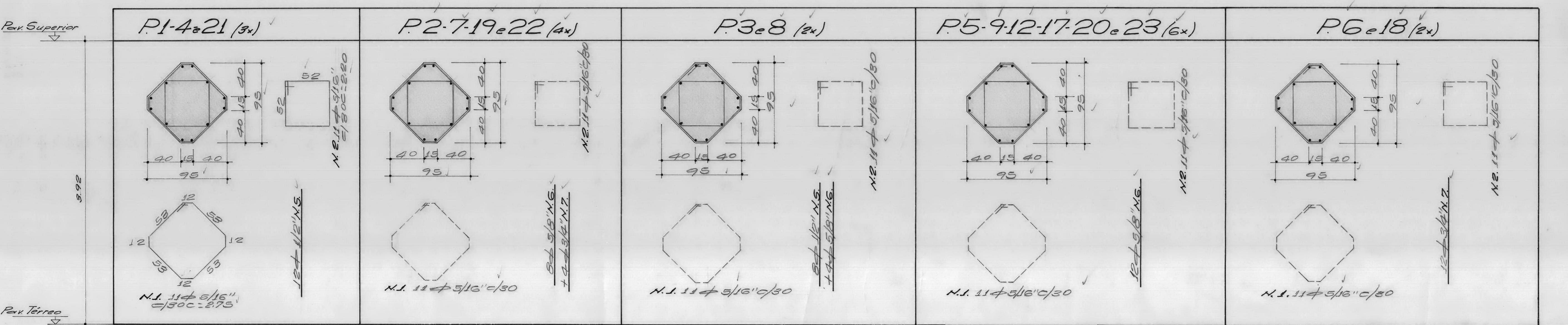
VASCONCELOS - VIEIRA
ENGENHEIROS ESTRUTURAIS LTDA.
RUA JAGUARIBE, 465 - 2.º - S. PAULO
FONE 561-6595

OBRA
Centro Cívico de Jahu
Armadura dos pilares P10 e 24 entre Pav. Terreo e Pav. Superior.

VISTO:
Data: 12/12/2011
Esc. 1:25
12/12/2011
12/12/2011

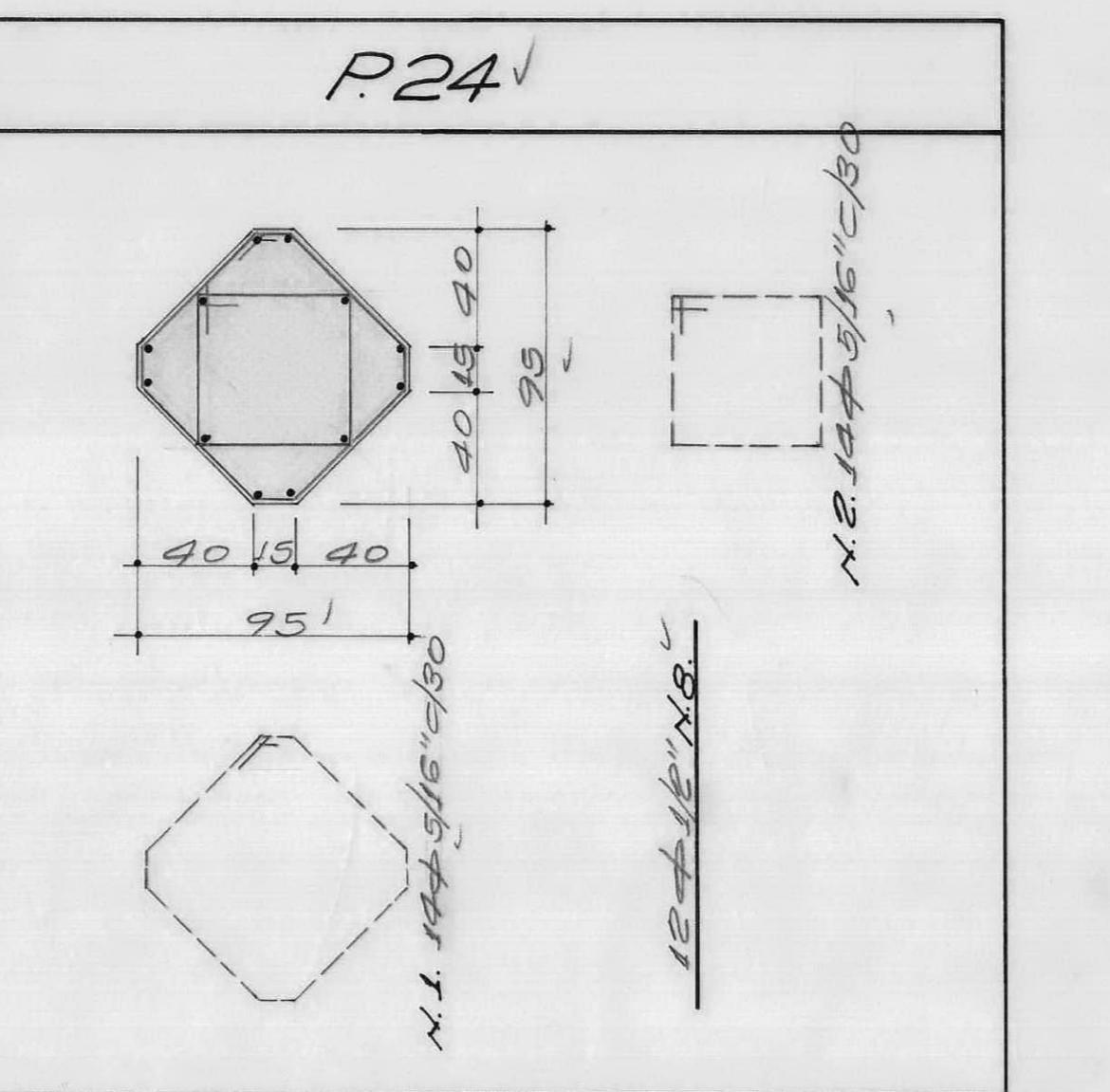
MATERIAIS
CONCRETO: 150 kg/m³.
AÇO: C.A.24 - C.A.50B

VERIFICAR AS MEDIDAS NA OBRA



NOTA:
Nos pilares P1-5-9-13A-13B-16A-16B
observar ferros de espera para
a cobertura intermédia.
(ver arm. da cob. interm.)

5.33
N.8.11+5/16'C/30



MATERIAIS
CONCRETO: 150 kg/m³.
AÇO: C.A.24 - C.A.50B

VERIFICAR AS MEDIDAS NA OBRA

M.G. - G.1