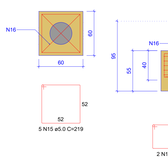
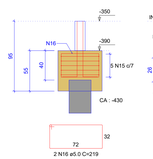
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1xC30

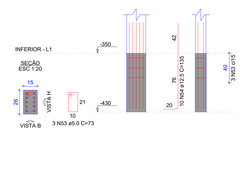
PLANTA
ESC 1:25



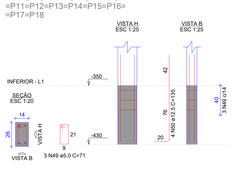
CORTE
ESC 1:25



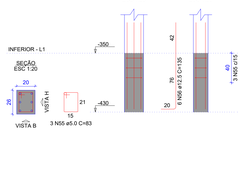
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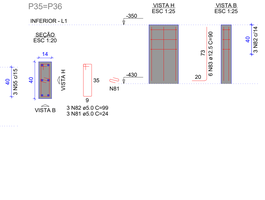
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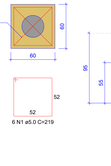
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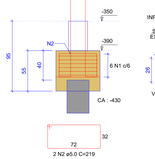
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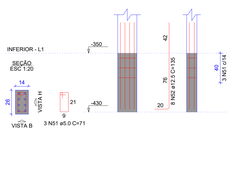
PLANTA
ESC 1:25



CORTE
ESC 1:25



P9



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
B9	CA60	1	5.0	6	219	1314
B23	CA60	2	5.0	2	219	438
	CA60	3	5.0	2	202	404
	CA60	4	5.0	2	222	444
	CA50	5	5.0	7	177	1239
2xB26	CA50	6	6.3	4	152	608
	CA60	7	10.0	7	200	1400
	CA60	8	5.0	4	192	768
	CA60	9	5.0	14	192	2688
	CA60	10	5.0	6	150	1200
	CA60	11	5.0	14	167	2338
	CA60	12	8.0	14	191	2674
B28	CA60	13	8.0	5	220	1100
	CA60	14	8.0	2	216	432
21xB36	CA60	15	5.0	105	219	22995
3xB39	CA60	16	5.0	14	192	2688
	CA60	17	5.0	6	192	1152
	CA60	18	5.0	15	399	5985
	CA60	19	5.0	21	167	3507
	CA50	20	6.3	12	152	1824
	CA60	21	5.0	14	219	3066
2xB42	CA60	22	5.0	14	219	3066
	CA60	23	5.0	4	219	876
3xB43	CA60	24	6.3	15	220	3300
	CA50	25	6.3	6	218	1308
3xB44	CA60	26	5.0	6	217	1302
	CA60	27	5.0	6	171	1026
4xB48	CA60	28	5.0	14	167	2338
	CA60	29	5.0	8	192	1536
	CA60	30	5.0	20	399	7980
	CA60	31	5.0	28	167	4676
	CA60	32	6.3	16	152	2432
3xB49	CA60	33	10.0	12	200	2400
	CA60	34	5.0	6	192	1152
	CA60	35	5.0	15	399	5985
	CA60	36	5.0	21	167	3507
	CA50	37	6.3	15	152	2280
2xB50	CA50	38	12.5	21	189	3969
	CA60	39	5.0	4	192	768
	CA60	40	5.0	10	150	1500
	CA60	41	5.0	10	150	1500
	CA60	42	5.0	14	167	2338
2xB51	CA50	43	12.5	8	189	1512
	CA60	44	5.0	4	192	768
	CA60	45	5.0	10	150	1500
	CA60	46	5.0	14	167	2338
	CA50	47	6.3	8	152	1216
	CA60	48	10.0	16	190	3040
16xP1	CA60	49	5.0	48	71	3408
	CA50	50	12.5	64	135	8640
P9	CA60	51	5.0	3	71	213
	CA60	52	5.0	3	111	333
P10	CA60	53	5.0	1	73	219
2xP19	CA60	54	12.5	10	135	1350
	CA60	55	5.0	3	83	498
2xP21	CA60	56	12.5	12	135	1620
	CA60	57	5.0	6	111	666
4xP22	CA60	58	12.5	12	130	1560
	CA60	59	5.0	12	111	1332
P23	CA50	60	12.5	15	130	2080
	CA60	61	5.0	3	111	333
3xP27	CA50	62	12.5	4	135	540
	CA60	63	5.0	9	111	999
P28	CA60	64	5.0	3	111	333
	CA60	65	5.0	3	111	333
2xP29	CA60	66	12.5	4	135	540
	CA60	67	5.0	6	111	666
3xP30	CA60	68	12.5	8	130	1040
	CA60	69	5.0	9	111	999
3xP31	CA50	70	12.5	12	130	1560
	CA60	71	5.0	9	111	999
P32	CA60	72	12.5	12	130	1560
	CA60	73	5.0	3	111	333
2xP33	CA50	74	12.5	4	135	540
	CA60	75	5.0	6	24	144
P34	CA50	76	12.5	12	135	1620
	CA60	77	12.5	12	135	1620
	CA60	78	5.0	6	24	144
2xP35	CA60	79	5.0	3	99	297
	CA50	80	12.5	12	135	1620
	CA60	81	5.0	6	24	144
2xP37	CA60	82	5.0	3	99	297
	CA60	83	12.5	12	130	1560
P43	CA60	84	5.0	6	111	666
	CA50	85	12.5	8	130	1040
	CA60	86	5.0	3	24	72
	CA60	87	5.0	3	99	297
	CA50	88	12.5	6	135	810

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	6.3	175.9	17	47.3
	8.0	42.1	4	18.3
	10.0	97.6	9	66.2
	12.5	377	35	399.5
CA60	5.0	1168.7	-	196.2
PESO TOTAL (kg)				
CA50	531.2			
CA60	196.2			

Volume de concreto (C-30) = 14.29 m³
Área de forma = 96.49 m²

NOTAS IMPORTANTES

A) Em caso de dúvidas consultar o calculista.

B) Verificar a limpeza das formas ou partes da estrutura em contato com a concretagem.

C) Dobrar as barras conforme a NBR 6118: 2023.

D) O C.G. dos blocos deve coincidir com o C.G. das estacas e/ou de cargas.

E) Especificações do concreto para sapatas:
fck > = 30 MPa;
Slump: 12 + ou – 3 cm;
Cimento a ser empregado: CP II – F – 30.

F) Especificações do concreto para vigas de travamento:
fck > = 30 MPa;slump 12 + ou – 3 cm;
Cimento a ser empregado: CP II – F – 32.

G) A Fundação deve ser levantada e informada à PROJEPLUS para a verificação de possíveis alterações de projeto devido a excentricidades de locação das mesmas.

H) As medidas apresentadas no projeto estão em cm, exceto quando especificado.

I) Profundidade das estacas: Conforme projeto de Locação.

J) Espaçamento entre os estribos: Conforme Projeto de Locação

K) Cobrimento da armadura= Conforme Projeto.

L) Na fabricação dos pilares pré moldados, verificar comprimento de embutimento em cálice, e sua devida rugosidade

REVISÕES DE PROJETO

REV.	DATA	ASSUNTO
1	16/12/2025	EMISSÃO DE PROJETO EXECUTIVO

PROJEPLUS
engenharia

PROJETO ESTRUTURAL

OBRA: **CMEI SAPOPEMA**

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE SAPOPEMA

CONTEUDO: **- DETALHAMENTO DE FUNDAÇÃO**

RESPONSÁVEL TÉCNICO: **ANDRÉ DE MOURA RODRIGUES**
CREA-PR: 166714-D

FOLHA NÚMERO: **01**

TOTAL FOLHAS: **11**

PROPRIETÁRIO: **PREFEITURA MUNICIPAL DE SAPOPEMA**

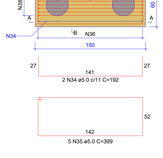
DESENHO: ANDRÉ RODRIGUES

ESCALA: COMO INDICADO

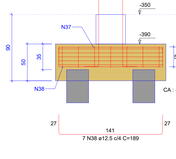
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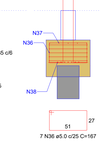
PLANTA
ESC 1:25



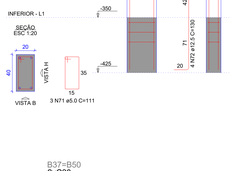
CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25



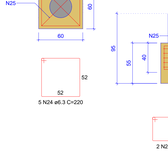
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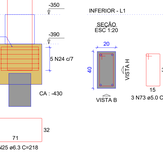
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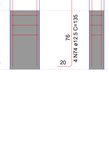
PLANTA
ESC 1:25



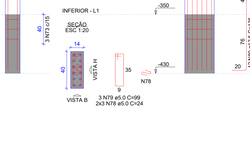
CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25



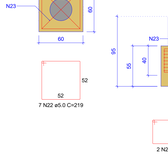
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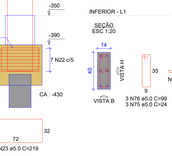
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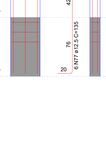
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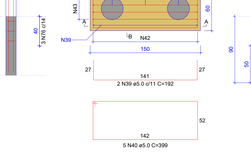
CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25



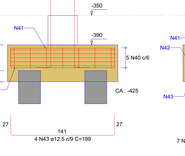
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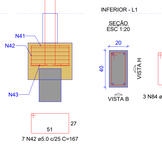
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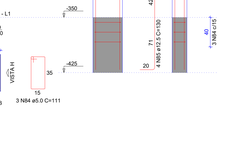
PLANTA
ESC 1:25



CORTE
ESC 1:25



P27=P41=P44



B28

1xC30

PLANTA
ESC 1:25

CORTE
ESC 1:25

P28

B29=B51

2xC30

PLANTA
ESC 1:25

CORTE A-A
ESC 1:25

CORTE B-B
ESC 1:25

P29=P51

B30=B38=B39

2xC30

PLANTA
ESC 1:25

CORTE A-A
ESC 1:25

CORTE B-B
ESC 1:25

P30=P38=P39

B31=B40=B49

2xC30

PLANTA
ESC 1:25

CORTE A-A
ESC 1:25

CORTE B-B
ESC 1:25

P31=P40=P49

B32=B34=B43

1xC30

PLANTA
ESC 1:25

CORTE
ESC 1:25

P32

P34

P43

B33=B42

1xC30

PLANTA
ESC 1:25

CORTE
ESC 1:25

P33=P42

B37=B50

2xC30

PLANTA
ESC 1:25

CORTE A-A
ESC 1:25

CORTE B-B
ESC 1:25

P37=P50