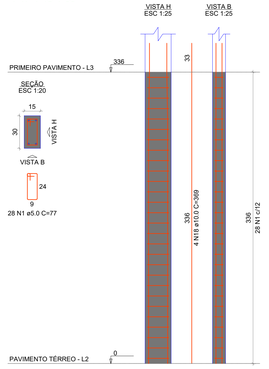
PILARES - Primeiro Pavimento - Nível 3,36

P1=P4=P5=P11=P15=P16=P19= =P20=P22=P23=P29=P31=P33= =P38=P39=P40=P41=P42=P43= =P47=P48=P55



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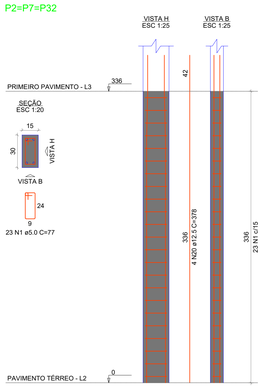

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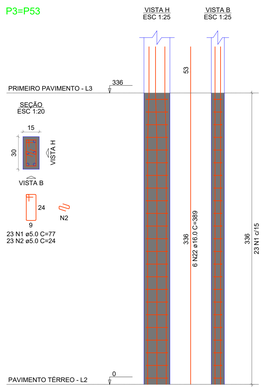
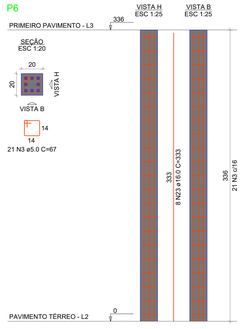


P6



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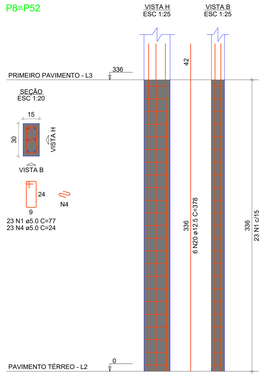

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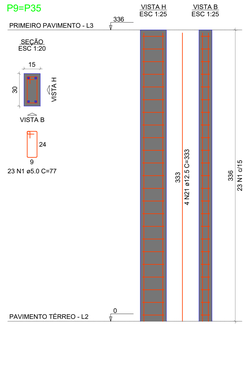
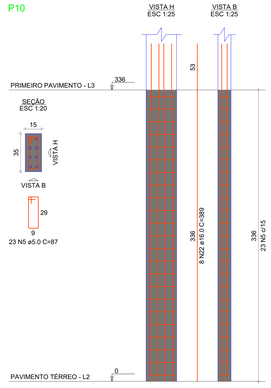
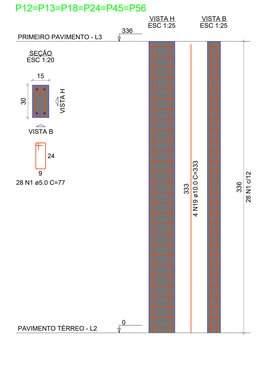


P10



P12=P13=P18=P24=P45=P56



RELAÇÃO DO AÇO

22xP1	3xP2	2xP3	
P6	2xP8	2xP9	
P10	6xP12	2xP14	
3xP17	P21	P26	
P26	3xP27	P28	
P34	P52	P57	
P60	4xP61	2xP62	
P66	P67	P69	
2xP71			

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	117	24	2808
	2	5.0	49	24	1176
	3	5.0	229	24	5496
	4	5.0	92	24	2208
	5	5.0	28	24	672
	6	5.0	140	24	3360
	7	5.0	71	33	2343
	8	5.0	31	33	1023
	9	5.0	23	33	759
	10	5.0	126	67	8442
	11	5.0	28	67	1876
	12	5.0	56	29	1624
	13	5.0	28	29	812
	14	5.0	28	157	4396
	15	5.0	252	157	39564
	16	5.0	168	29	4872
CA60	17	5.0	28	29	812
	18	10.0	154	393	60522
	19	10.0	56	393	22008
	20	12.5	84	378	31752
	21	12.5	56	378	21168
	22	16.0	56	389	21784
	23	16.0	84	389	32676

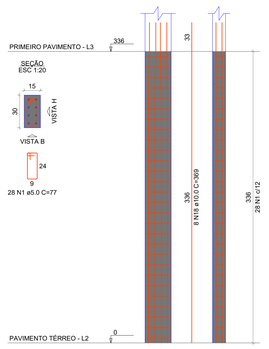
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	769.5	521.9
	12.5	238.3	252.5
	16.0	253.4	492
CA60	5.0	1656.3	280.8

PESO TOTAL (kg)	
CA50	1266.4
CA60	280.8

Volume de concreto (C-30) = 12.35 m³
Área de forma = 224.52 m²

P14=P51



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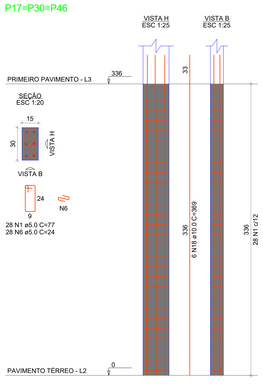

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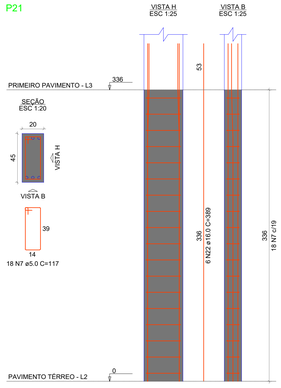

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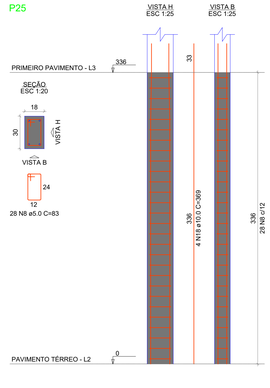

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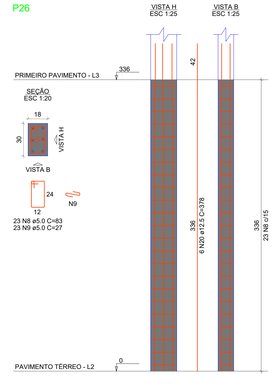

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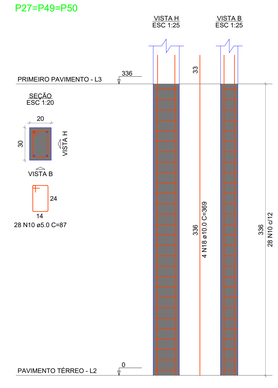

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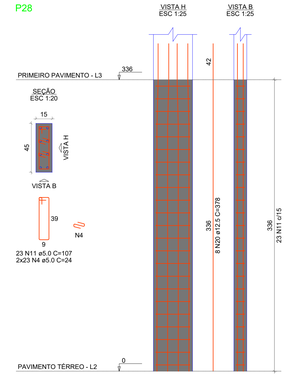
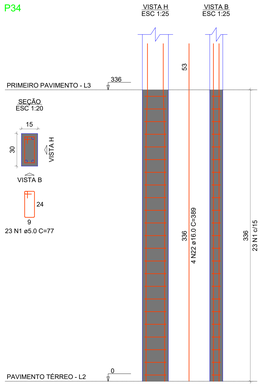


P34



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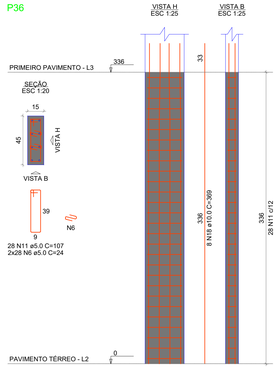

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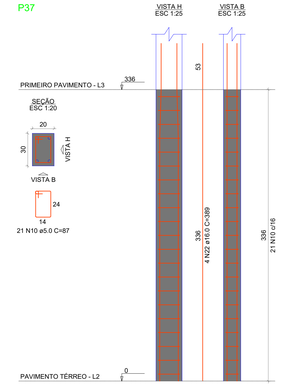

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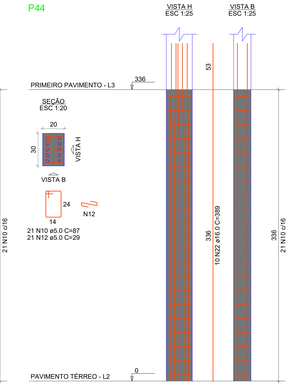

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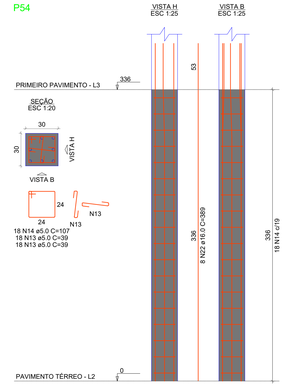

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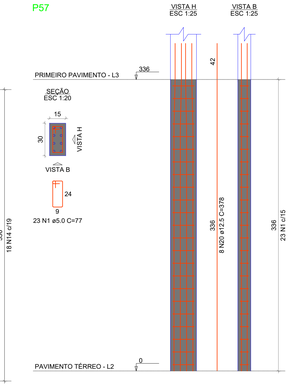

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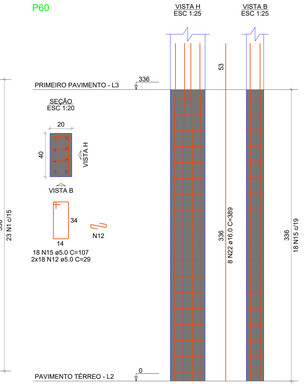

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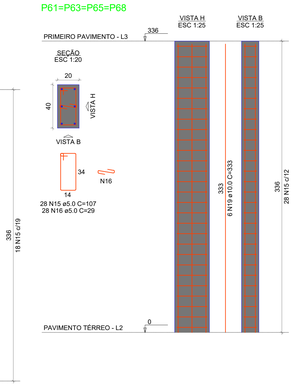

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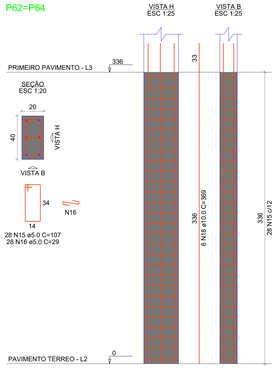

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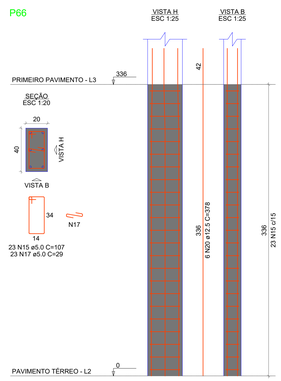

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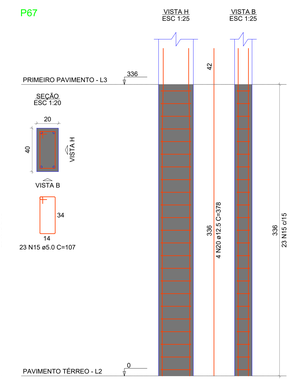

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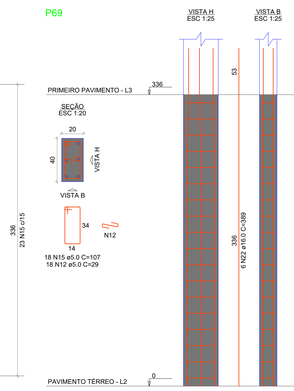

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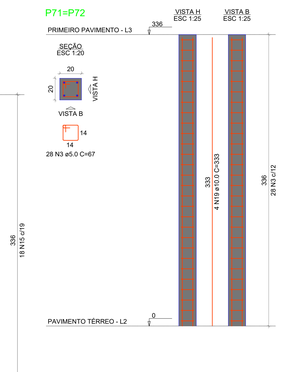

AMURES — ASSOCIAÇÃO DE MUNICÍPIOS DA REGIÃO SERRANA

PREFEITURA MUNICIPAL DE SÃO JOAQUIM - SC — 12/29

ASSESSORIA TÉCNICA

MATHEUS LORENZETTI CASAGRANDE:05074344980 — Assinado de forma digital por MATHEUS LORENZETTI CASAGRANDE:05074344980 Dados: 2025.10.13 19:38:37 -03'00'

PROJETO: Matheus Lorenzetti Casagrande — Eng. Civil - CREA 165793-1

PREFEITO: José Teodoro de Sena Amaral

OBRA : CENTRO DE EDUCAÇÃO INFANTIL (CEI) SANTA PAULINA

Projeto Estrutural

Detalhamento dos Pilares do Primeiro Pav. - Nivel 3,36

Área Total: 1828,80 m²

Localização: Rua Antônio José Alves de Sá ; Bairro: Centro ; CEP:88600-000 ; s/n°

DESENHO : Matheus Lorenzetti Casagrande

Escala: Indicada

DATA : 10/2025