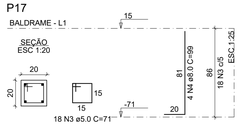
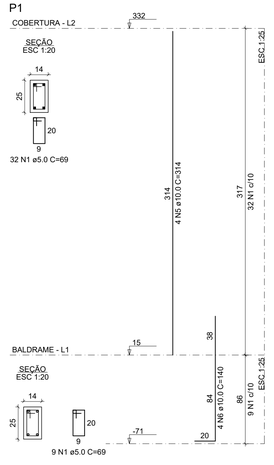
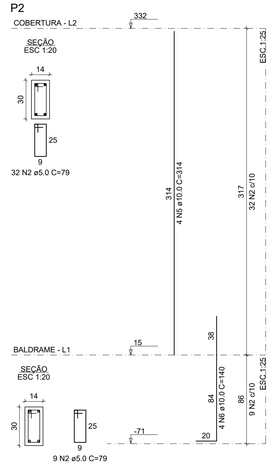
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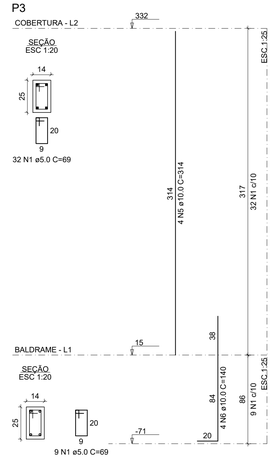
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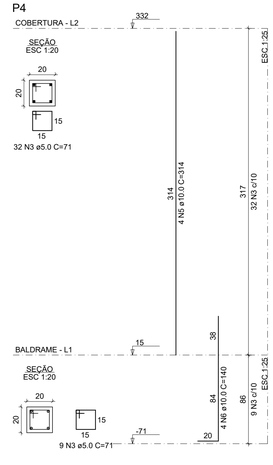
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P3



P4



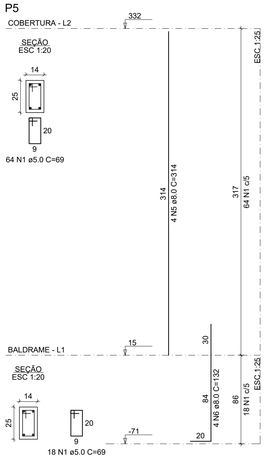
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	75.40	32.76
CA60	10.0	245.10	166.34
	5.0	621.20	105.23

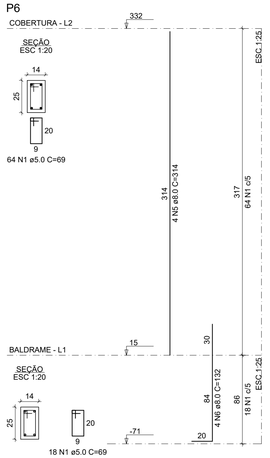
PESO TOTAL (kg)	
CA50	199.10
CA60	105.23

Volume de concreto (C-25) = 2.50 m³
Área de forma = 53.24 m²

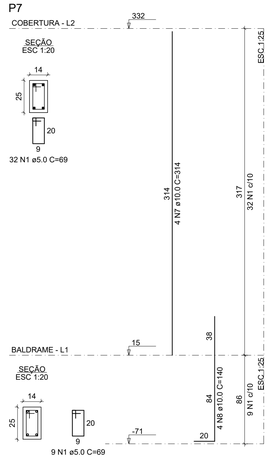
P5



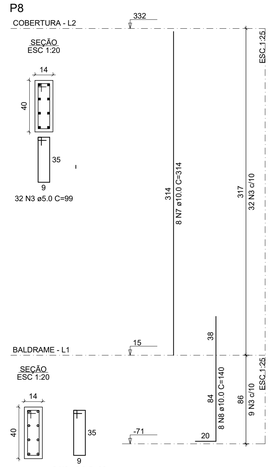
P6



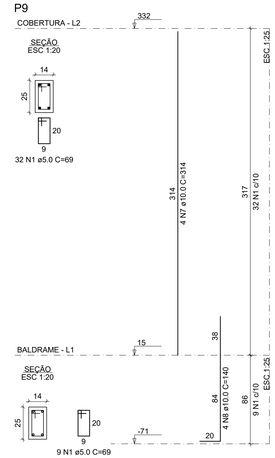
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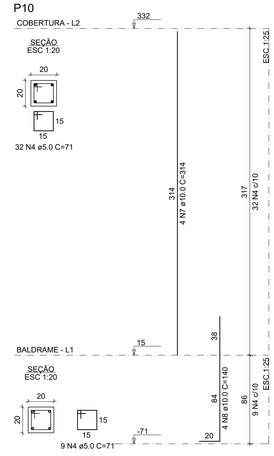
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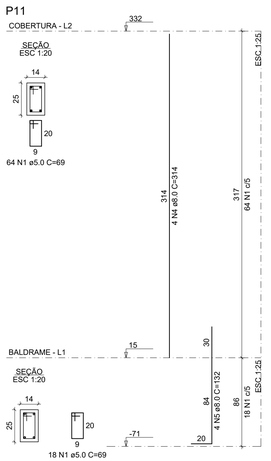
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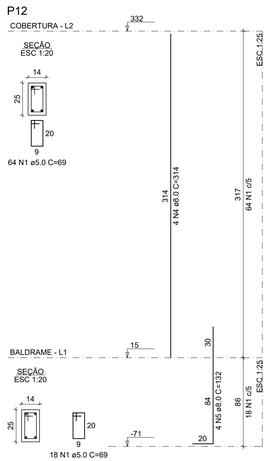
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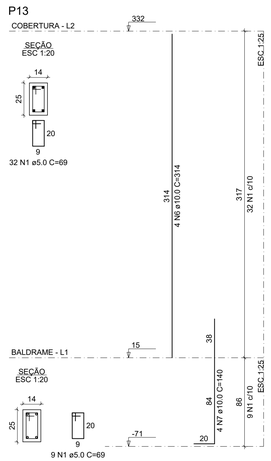
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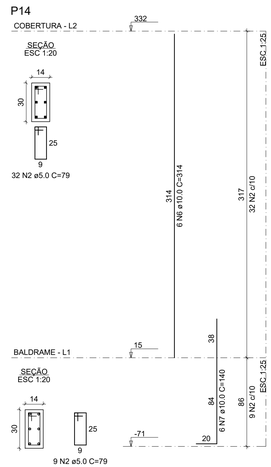
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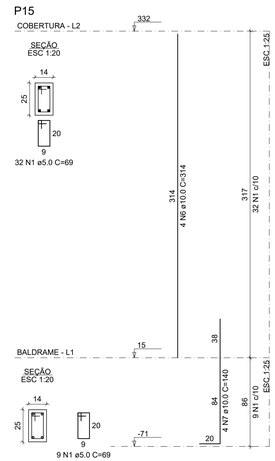
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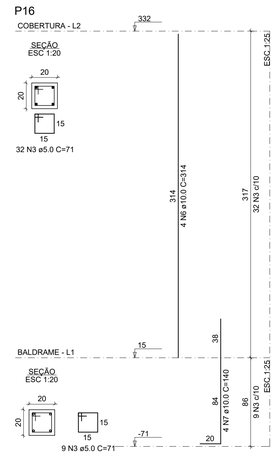
P14



P15



P16



PREFEITURA MUNICIPAL DO RIO GRANDE

GABINETE DE PROGRAMAS E PROJETOS ESPECIAIS

E.M.E.F. SÃO JOÃO BATISTA
Rua Pandiá Calogeras Nº598
Bairro São João - Rio Grande/RS

GPPE 07.2026

PROJETO ESTRUTURAL

ARMAÇÃO DOS PILARES

02

PAULO CESAR FERRARI PIRES:00102794073 — Assinado de forma digital por PAULO CESAR FERRARI PIRES:00102794073 Dados: 2026.07.14 06:46:01 -03'00'

Paulo Cesar Ferrari Pires
Eng Civil - CREA-RS 139940

Secretária Arq. Urb. Giovana Trindade