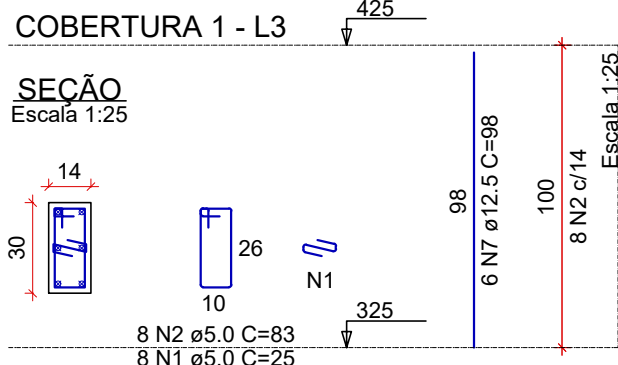
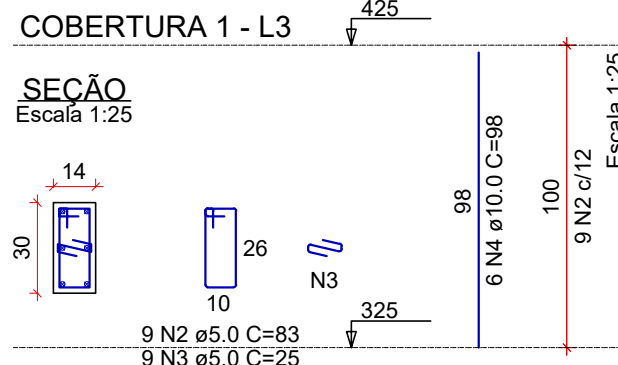


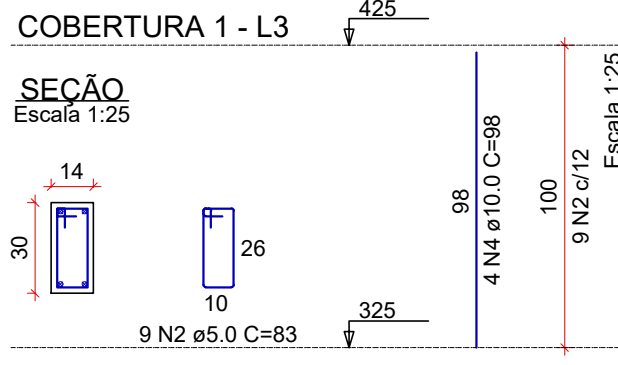
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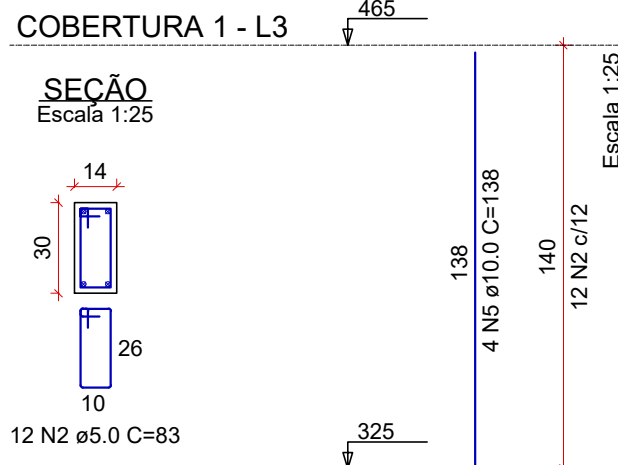
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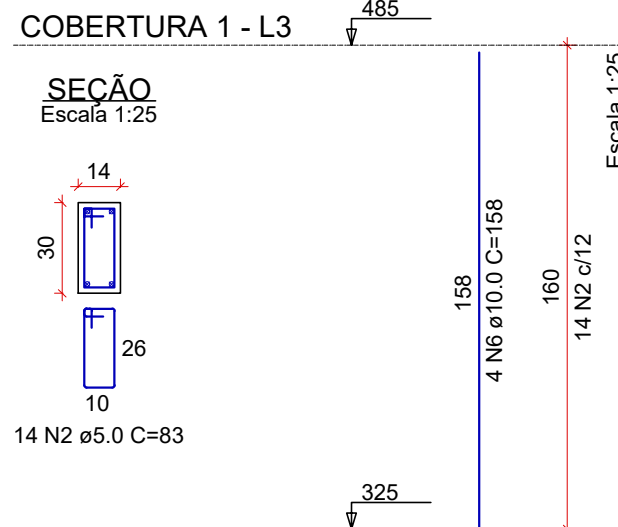
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=P18=P20=P21=P22



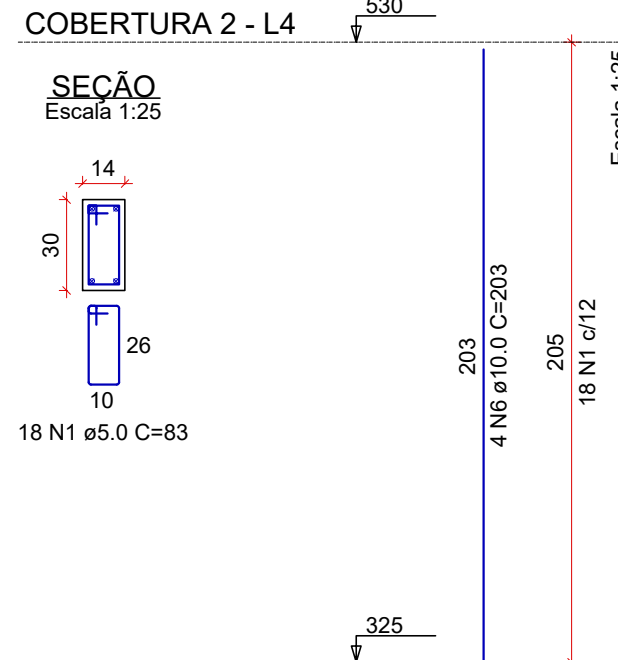
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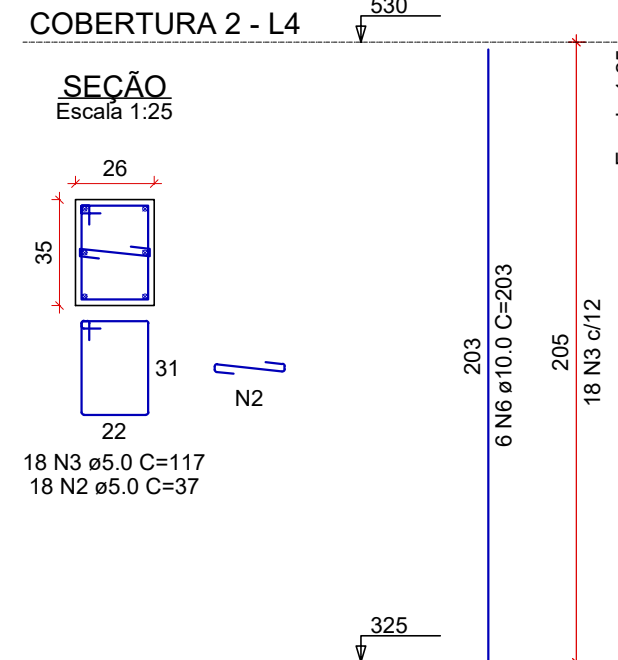
P48



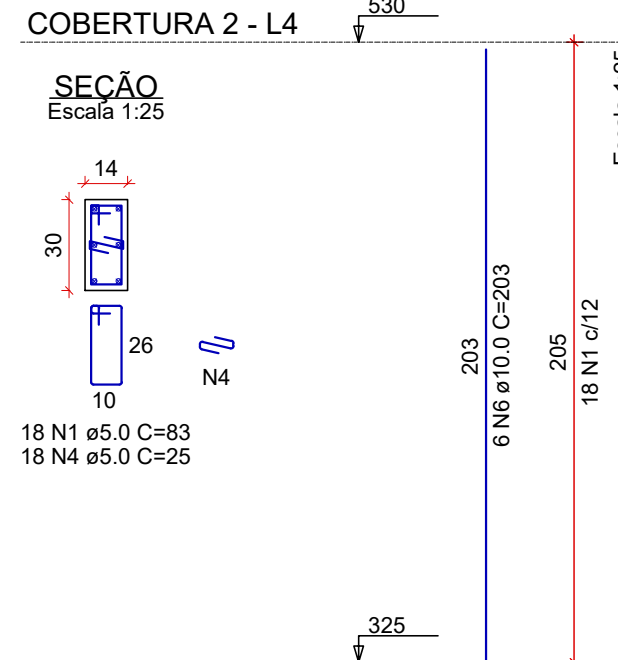
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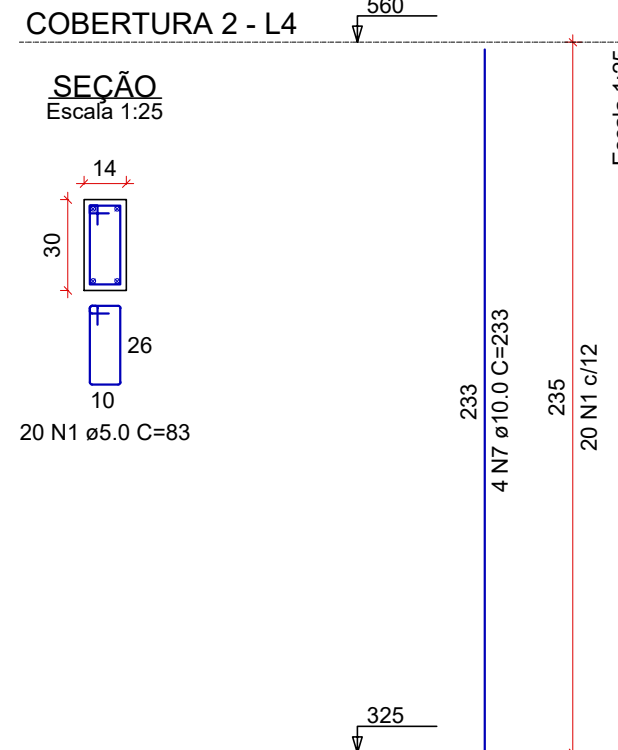
P51=P52=P53=P54=P55=P56=
=P57=P58=P59



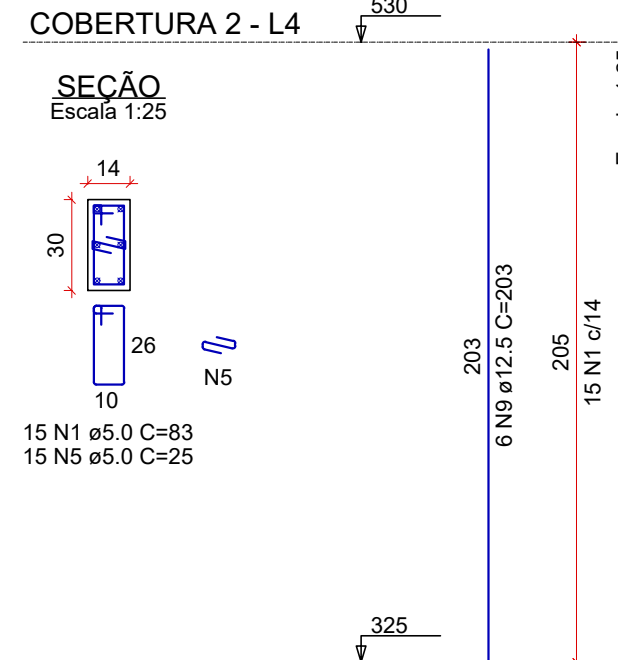
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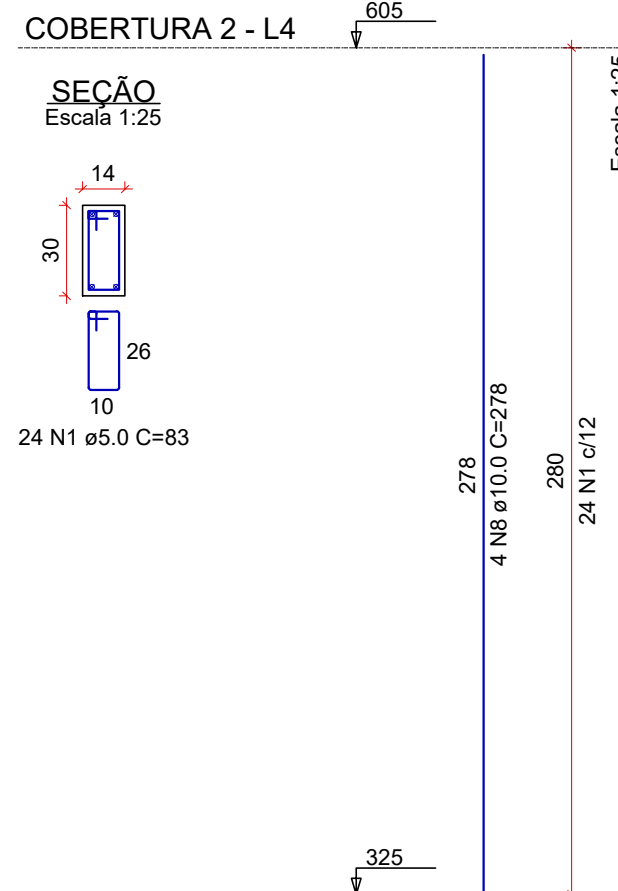
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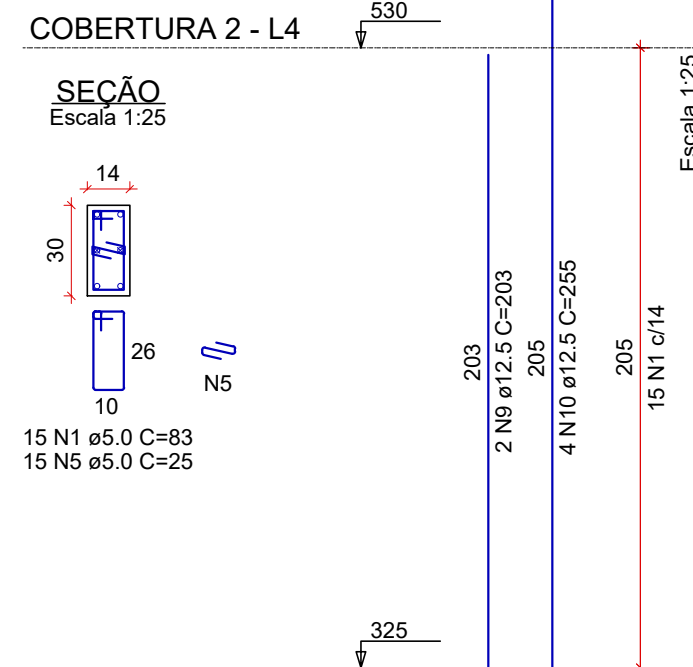
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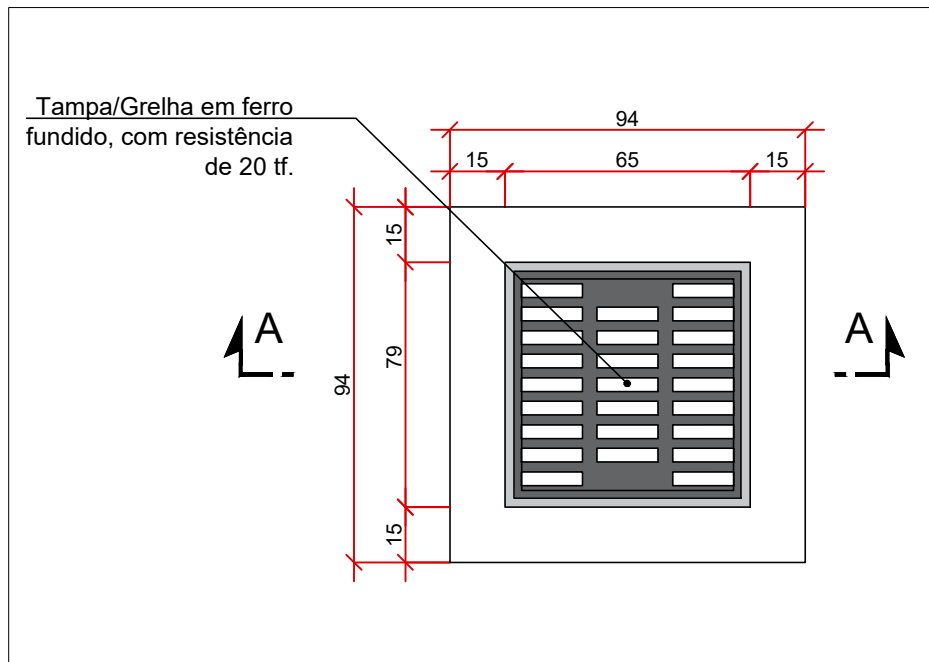
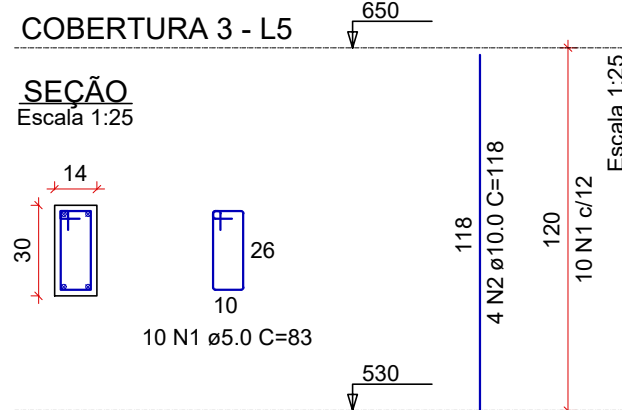
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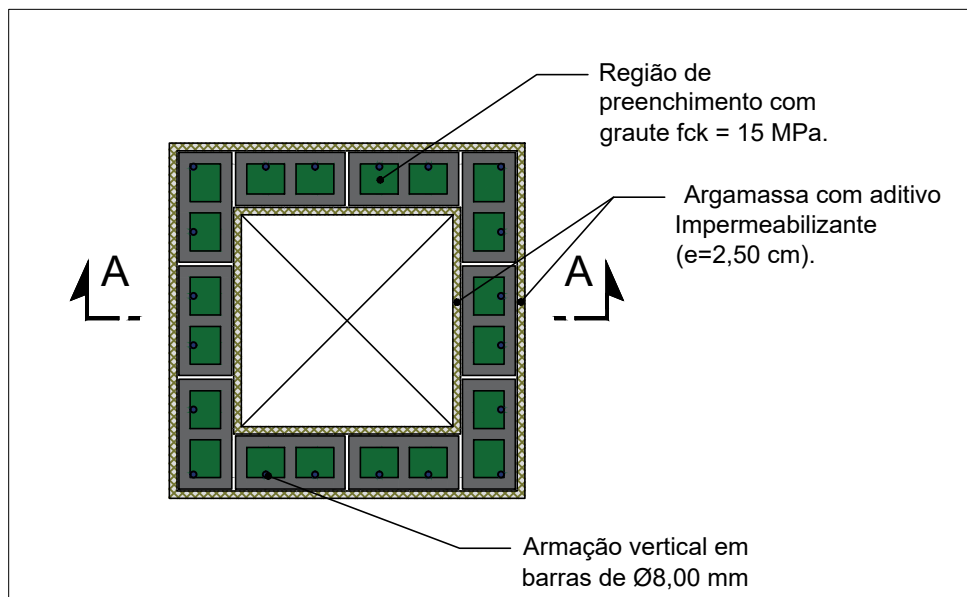
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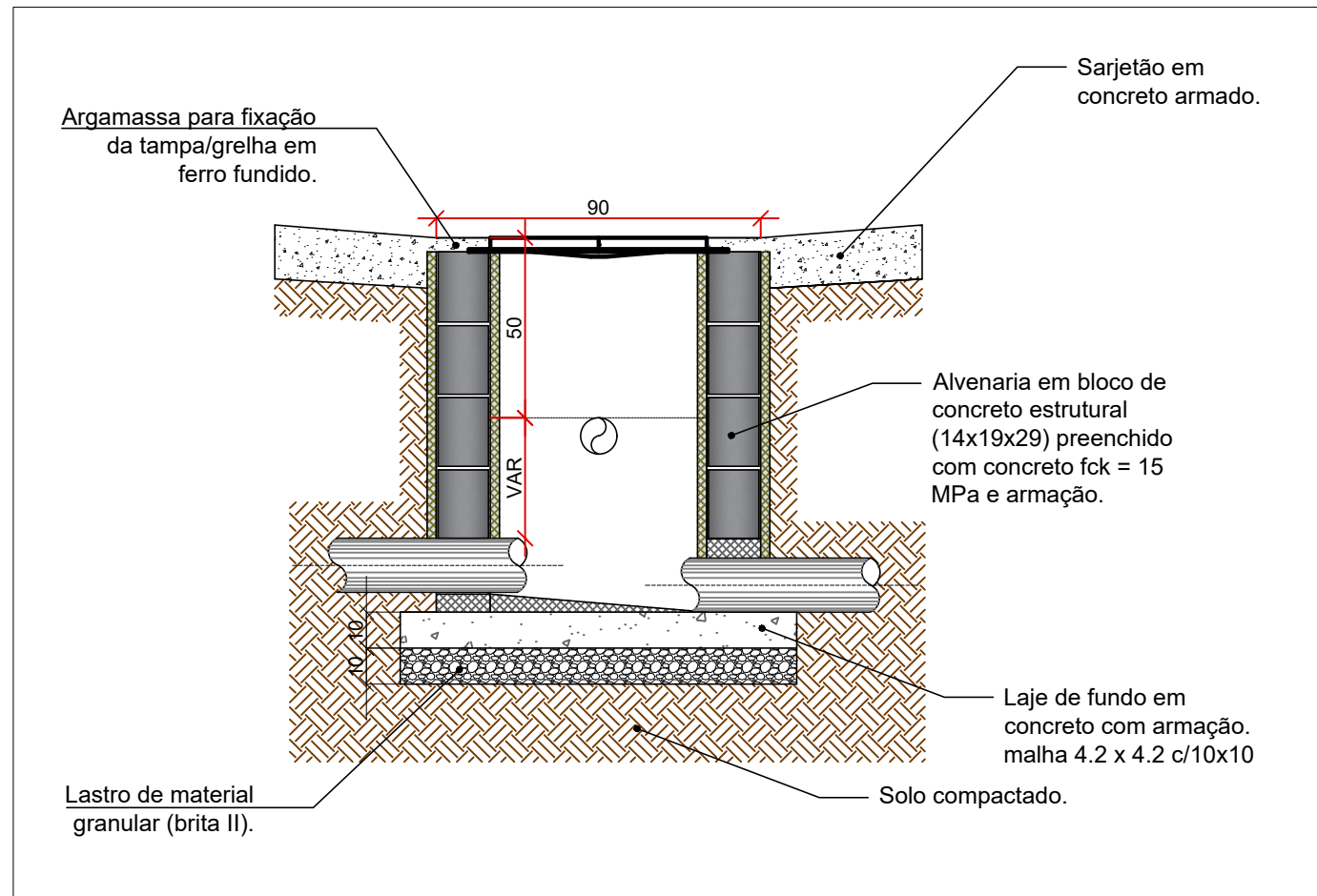
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CAIXA DE DRENAGEM - VISTA SUPERIOR
ESCALA 1:20

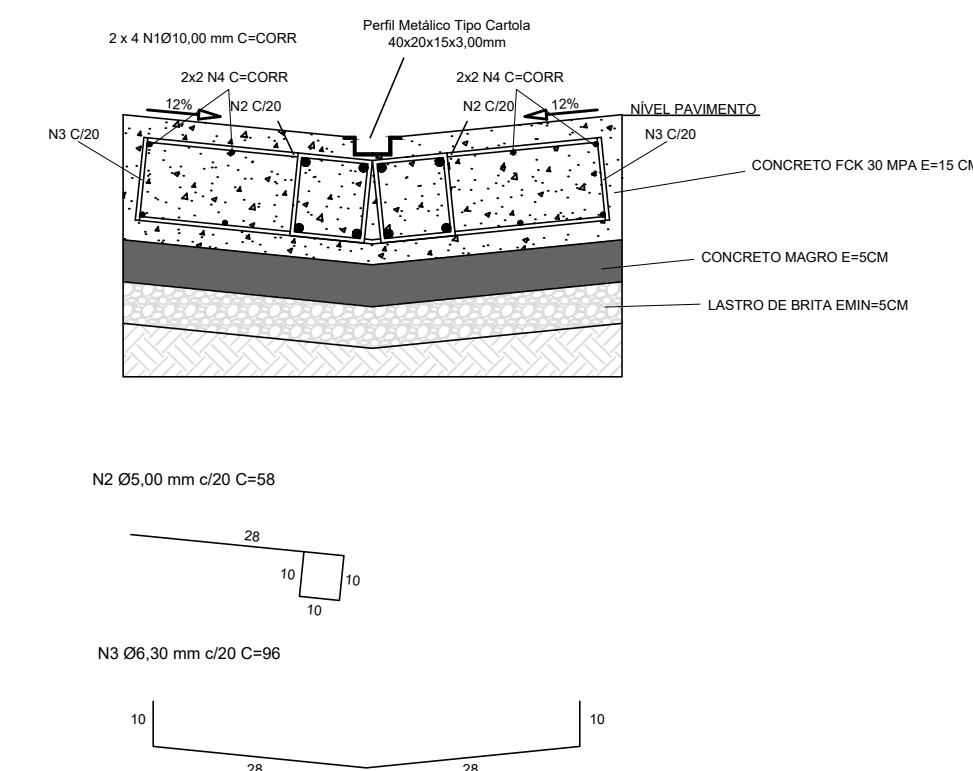


CAIXA DE DRENAGEM - PLANTA BAIXA
ESCALA 1:20



CAIXA DE DRENAGEM - CORTE AA
ESCALA 1:20

DETALHE TÍPICO DO SARJETÃO SEM ESCALA



RELAÇÃO DO AÇO - POR METRO DE SARJETÃO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8.00	8	100	800
	2	5.00	10	58	580
	3	6.30	5	96	480
	4	5.00	16	100	1600

RESUMO DO AÇO / METRO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.30	4.80	1.30
CA50	8.00	8.00	5.43
CA60	5.00	8.00	4.30
PESO TOTAL (kg)			
CA50		11.03	

Volume de concreto (C-30) = 0,1 m³/m
Área de forma = 0,20 m²
Volume de lastro = 0,03m³/m
Volume de brita = 0,055 m³/m
Perfil metálico tipo cantola = 1 m/m

RELAÇÃO DO AÇO

PILARES - COBERTURA 1					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	16	25	400
	2	5.0	160	83	12450
	3	5.0	9	25	225
	4	10.0	50	98	4900
	6	10.0	4	138	552
	6	10.0	4	158	632
	7	12.5	12	98	1176

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10.0	60.8	6	41.3
CA60	12.5	11.8	2	12.5
PESO TOTAL (kg)				22.2
CA50	53.7			
CA60	22.2			

Volume de concreto (C-30) = 0.71 m³
Área de forma = 14.96 m²

RELAÇÃO DO AÇO

PILARES - COBERTURA 2					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	223	83	18509
	2	5.0	162	37	5994
	3	5.0	162	117	18954
	4	5.0	18	25	450
	5	5.0	45	25	1125
CA50	6	10.0	76	203	15428
	7	10.0	8	233	1864
	8	10.0	8	279	2224
	9	12.5	10	203	2030
	10	12.5	8	255	2040

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10.0	195.2	18	132.4
CA60	5.0	450.3	4	43.1
PESO TOTAL (kg)				76.4
CA50	175.5			
CA60	76.4			

Volume de concreto (C-30) = 2.80 m³
Área de forma = 46.01 m²

RELAÇÃO DO AÇO

PILARES - COBERTURA 3					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	83	1660
CA50	2	10.0	8	118	944

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10.0	9.4	1	6.4
CA60	5.0	16.6	2	2.8
PESO TOTAL (kg)				2.8
CA50	6.4			
CA60	2.8			

Volume de concreto (C-30) = 0.10 m³
Área de forma = 2.11 m²

REV. 00	14/05/24	EMISSÃO INICIAL	DAC
REVISÃO	DATA	DESCRIÇÃO	RESP.



PROJETO	GERÊNCIA DE PROJETOS ALOSIO CAETANO FERREIRA
Rua Cel. Joaquim Francisco, 341 - Bairro Varginha CEP: 37501-052 - Itajubá / MG Tel: (35) 2143-9087 www.dacengenharia.com.br	RESPONSÁVEL TÉCNICO
	ENGº. CIVIL FLÁVIA C. BARBOSA CREA: MG-197.842/D

EMPREENHAMENTO	CONSTRUÇÃO DO TERMINAL RODOVIÁRIO DE SANTA RITA DO SAPUCAÍ
ENDEREÇO	RUA PROJETADA, S/N - BAIRRO FAMÍLIA ANDRADE SANTA RITA DO SAPUCAÍ - MINAS GERAIS
ASSUNTO	PROJETO ESTRUTURAL EM CONCRETO ARMADO DETALHAMENTO DOS PILARES - COBERTURA DETALHES: CAIXA DE DRENAGEM E SARJETÃO
DISCIPLINA	ESTRUTURAL
FASE DO PROJETO	EXECUTIVO
FOLHA Nº.	07/16
DATA INICIAL	14/05/2024
ESCALA	INDICADA
REVISÃO	R00
ARQUIVO	DAC-PMSRS-TRO-EST-PE-R00.DWG