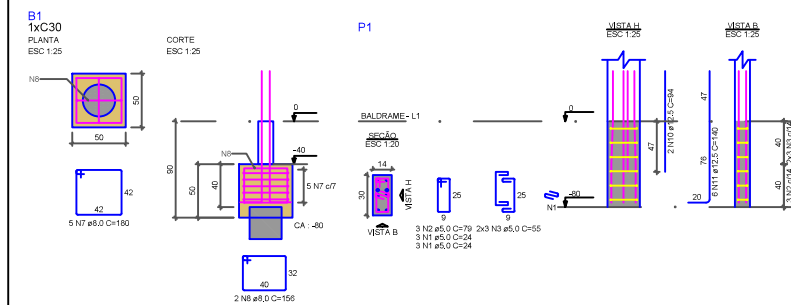
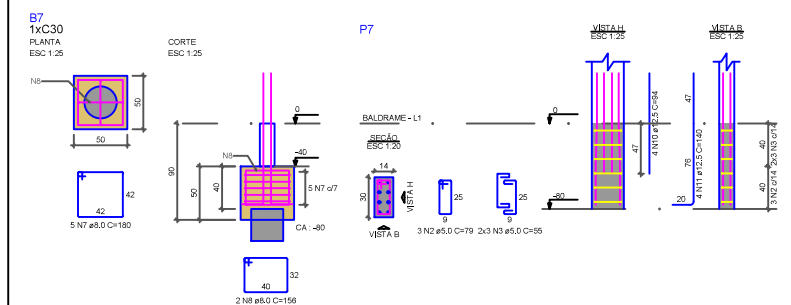
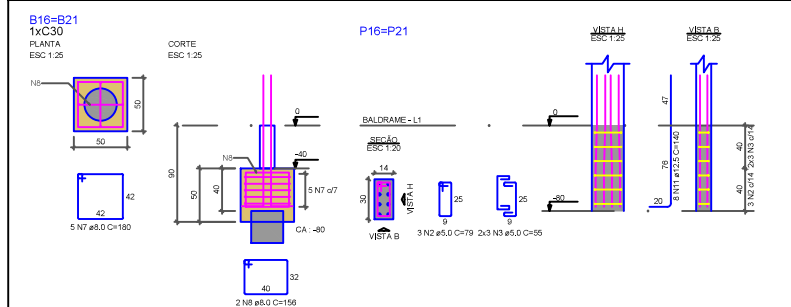
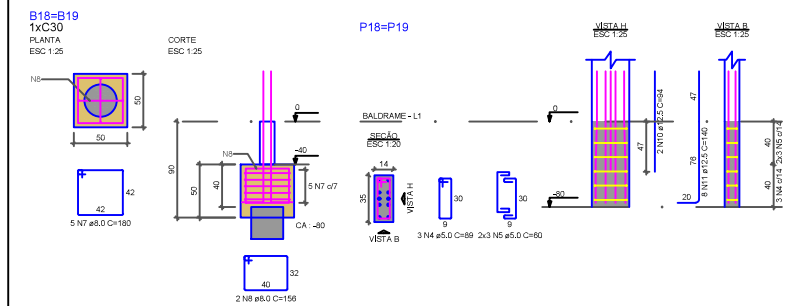
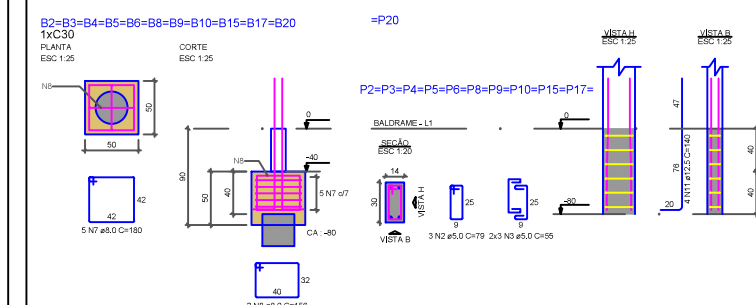
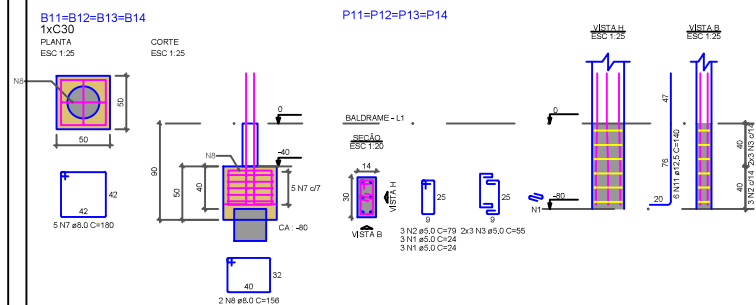
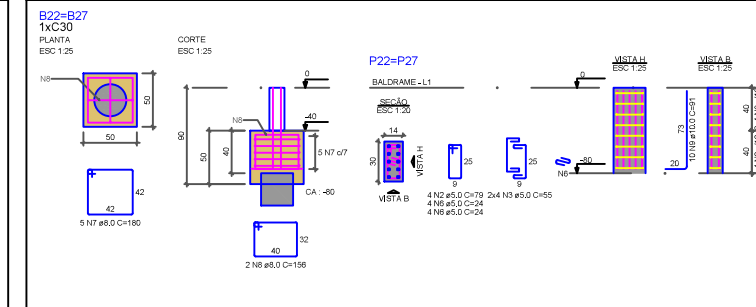
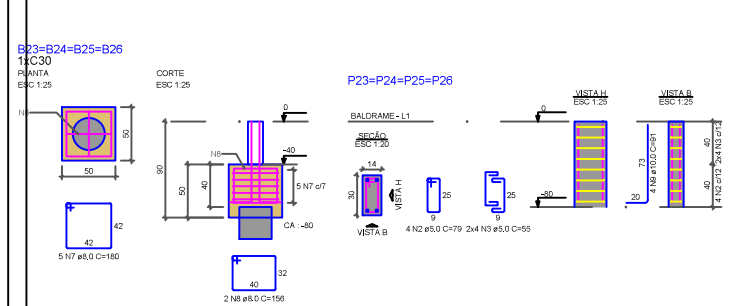


FUNDAÇÃO



RELAÇÃO DO AÇO						
B1	B7	4x814				
2x819	11x820	2x821				
4x826	2x827	P1				
11xP2	P7	6x11				
2xP16	2xP18	2xP22				
4xP23						

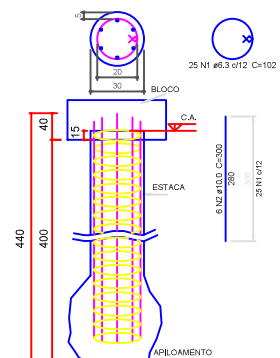
AÇO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (cm)
CA80	1	5,0	30	24	720
	2	5,0	81	79	6399
	3	5,0	162	55	8910
	4	5,0	6	34	204
	5	5,0	12	60	720
CA50	6	5,0	16	24	384
	7	8,0	135	180	24300
	8	8,0	54	156	8424
	9	10,0	36	91	3276
	10	12,5	1	94	94
	11	12,5	160	140	15400

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8,0	327,2	142
	10,0	32,8	22,2
CA60	12,5	163,4	173,2
	5,0	176,7	30
PESO TOTAL (kg)			
CA50	337,4		
CA60	30		

Volume de concreto (C-30) = 3.38 m³
 Área de forma = 38.58 m²

ESTACA - Ø 300 mm		
QUANTIDADE	27	PESOMETRO KG/M
PROFUNDIDADE	4 METROS	
AÇO LONGITUDINAL	6 Ø 10,0mm C=3,00m	5,76 KG/M
ESTRIBOS	Ø 5,0 mm c/ 12 cm	1,31 KG/M

ESTACA - Ø 30 - 4M



ANILSO LELIO DA
SILVA:87453142687

Documento assinado digitalmente

gov.br NILCEZAR AUGUSTO PERES
Data: 25/04/2026 16:30:24-0300
Verifique em <https://validar.iti.gov.br>

<p>ENG. CÍML NILCEZAR AUGUSTO PERES</p>		<p>CREA MG 161.233/D-MG</p>	
<p>PROJETO ESTRUTURAL - CÍML - MARIANA LOPES DE OLIVEIRA SIQUEIRA</p>		<p>18.025.981/0001-97</p>	
<p>FUNDAÇÕES – DETALHES DOS BLOCOS E FUNDAS</p>		<p>INDICADA</p>	
<p>RUA SEBASTIÃO CUSTÓDIO RENO, Nº 103</p>		<p>23/03/2026</p>	
<p>MONTE CASTELO</p>		<p>01</p>	
<p>PIRANGUÇU - MG</p>		<p>02/06</p>	