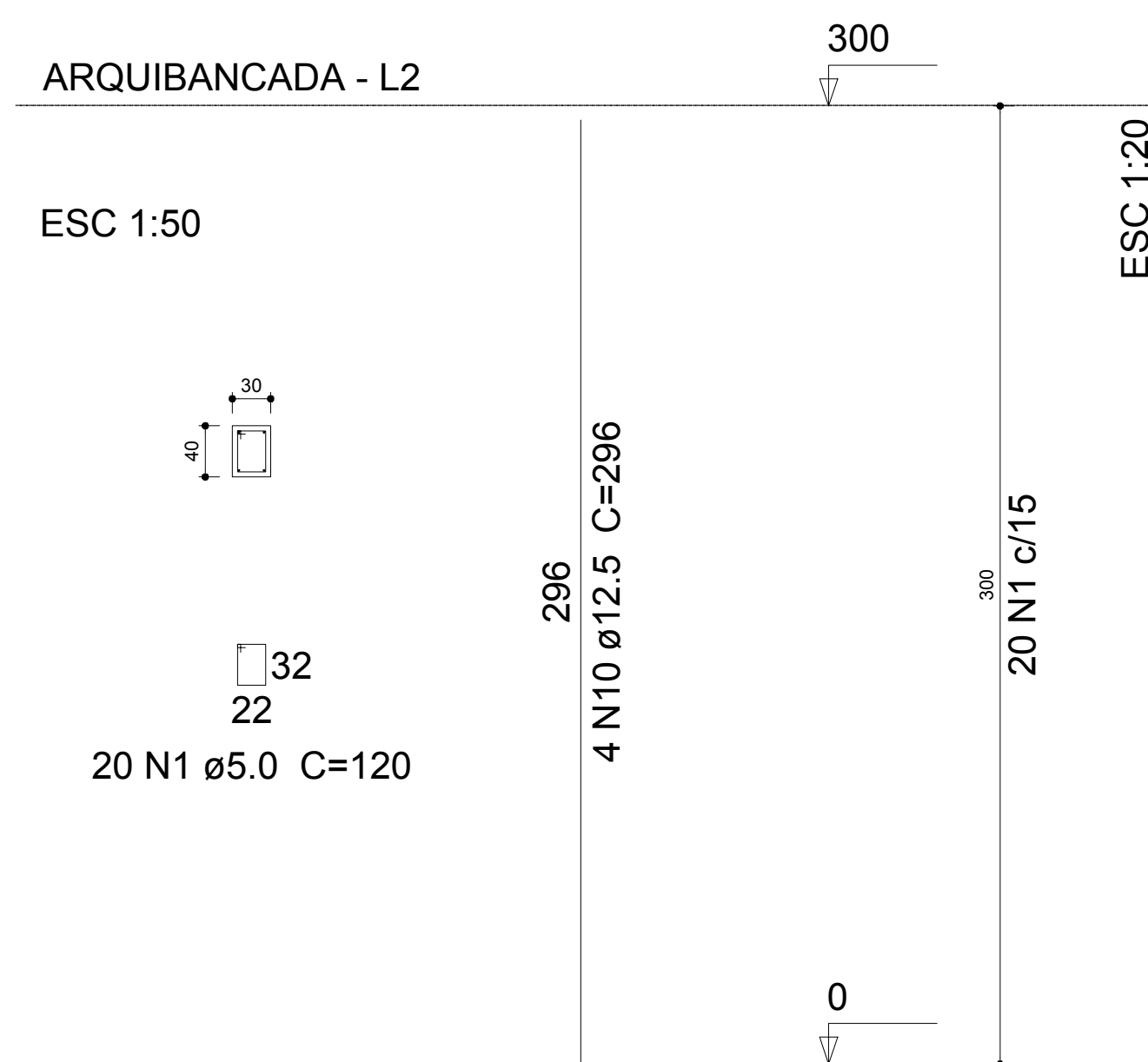
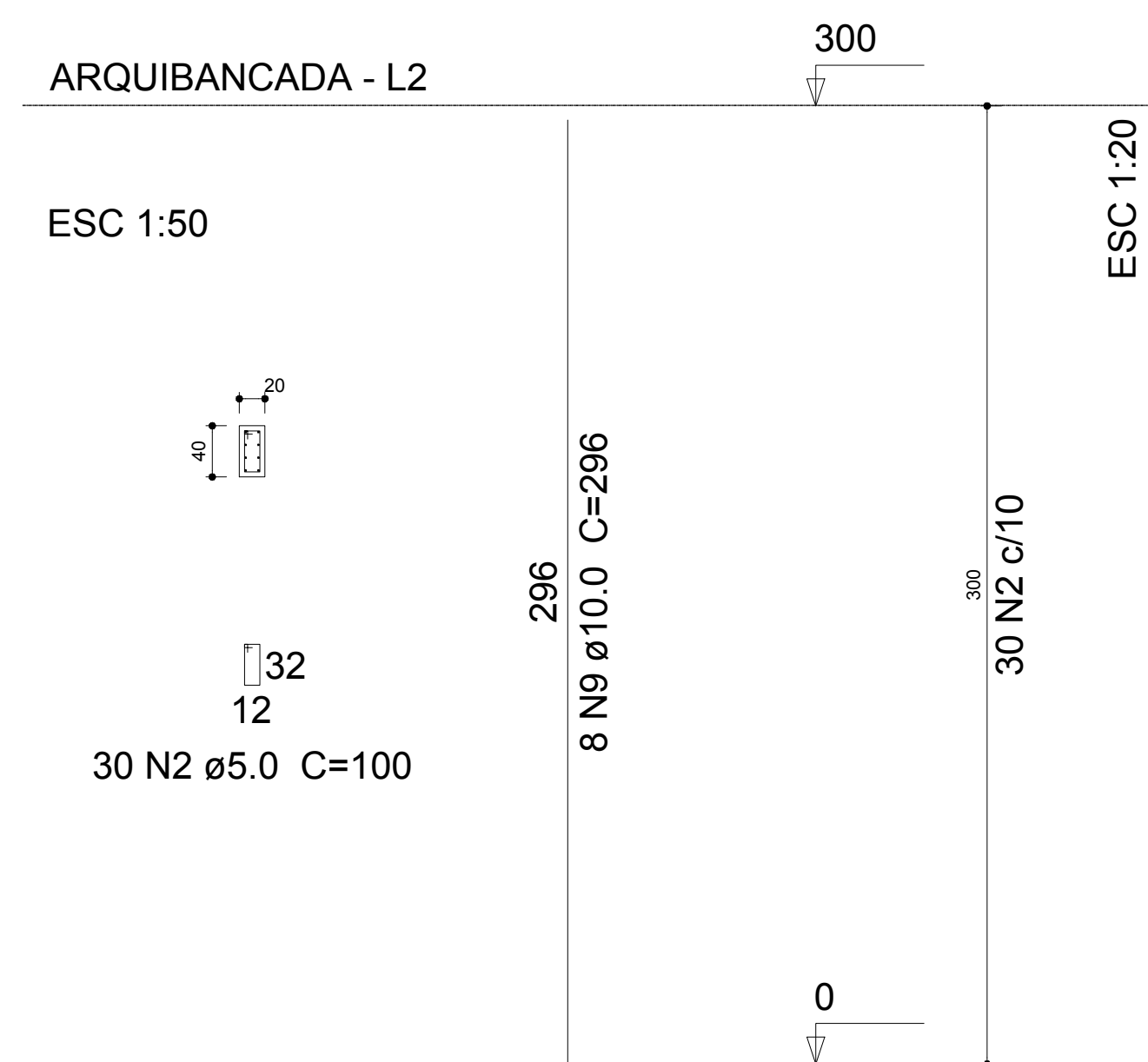


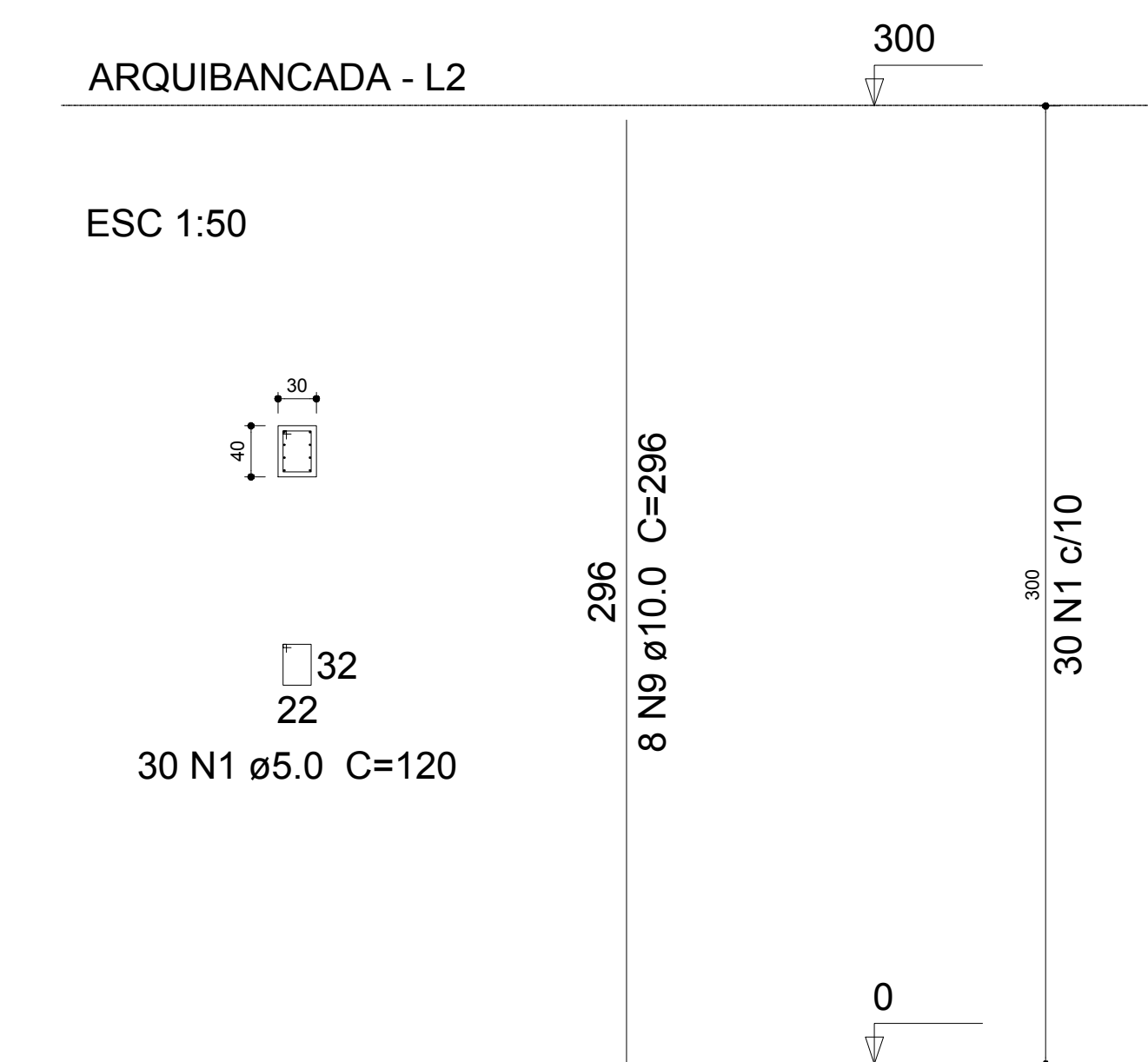
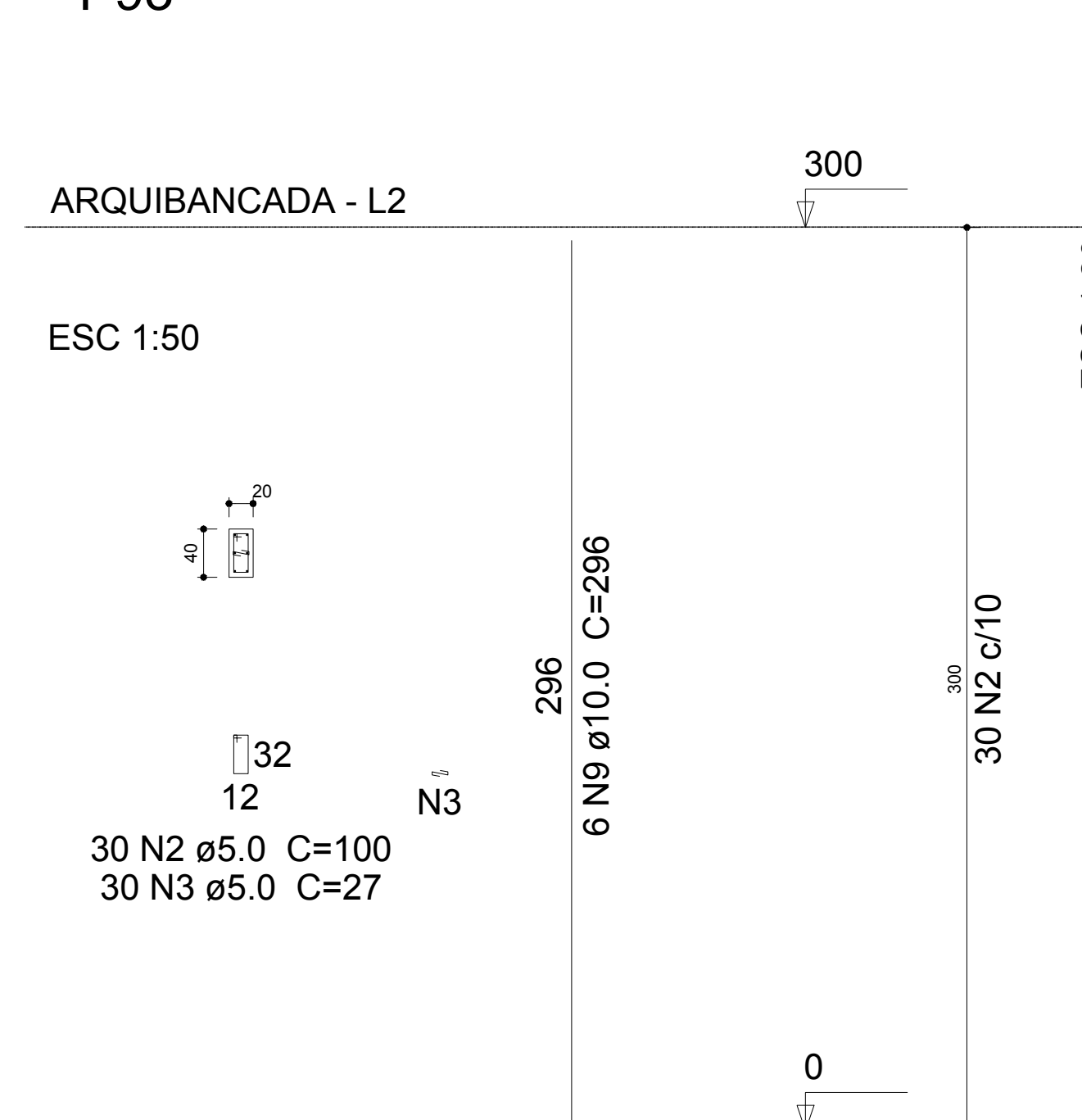
P100=P103



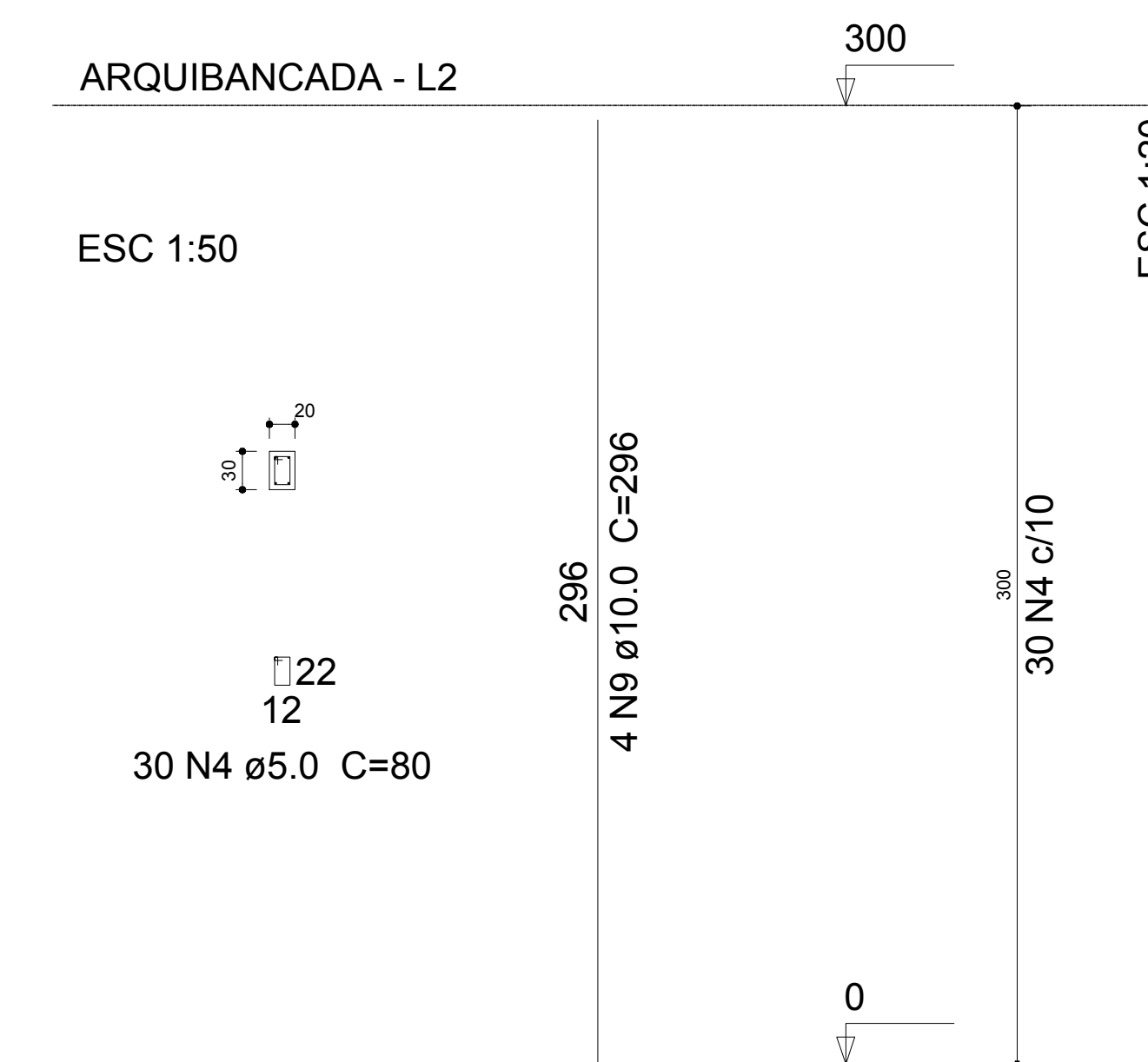
P12=P33=P47=P54=P63



P13=P14=P16=P37=P39=P40=P42=P46=P48=P49=P7=P18=P67=P84=P92
=P53=P55=P58=P61=P65=P66=P85=P87=P88
=P93



P21



Relação do aço

5xP12	20xP13	5xP17
P21	P34	P50
P57	P64	P68
P86	P89	2xP90
2xP96	2xP100	

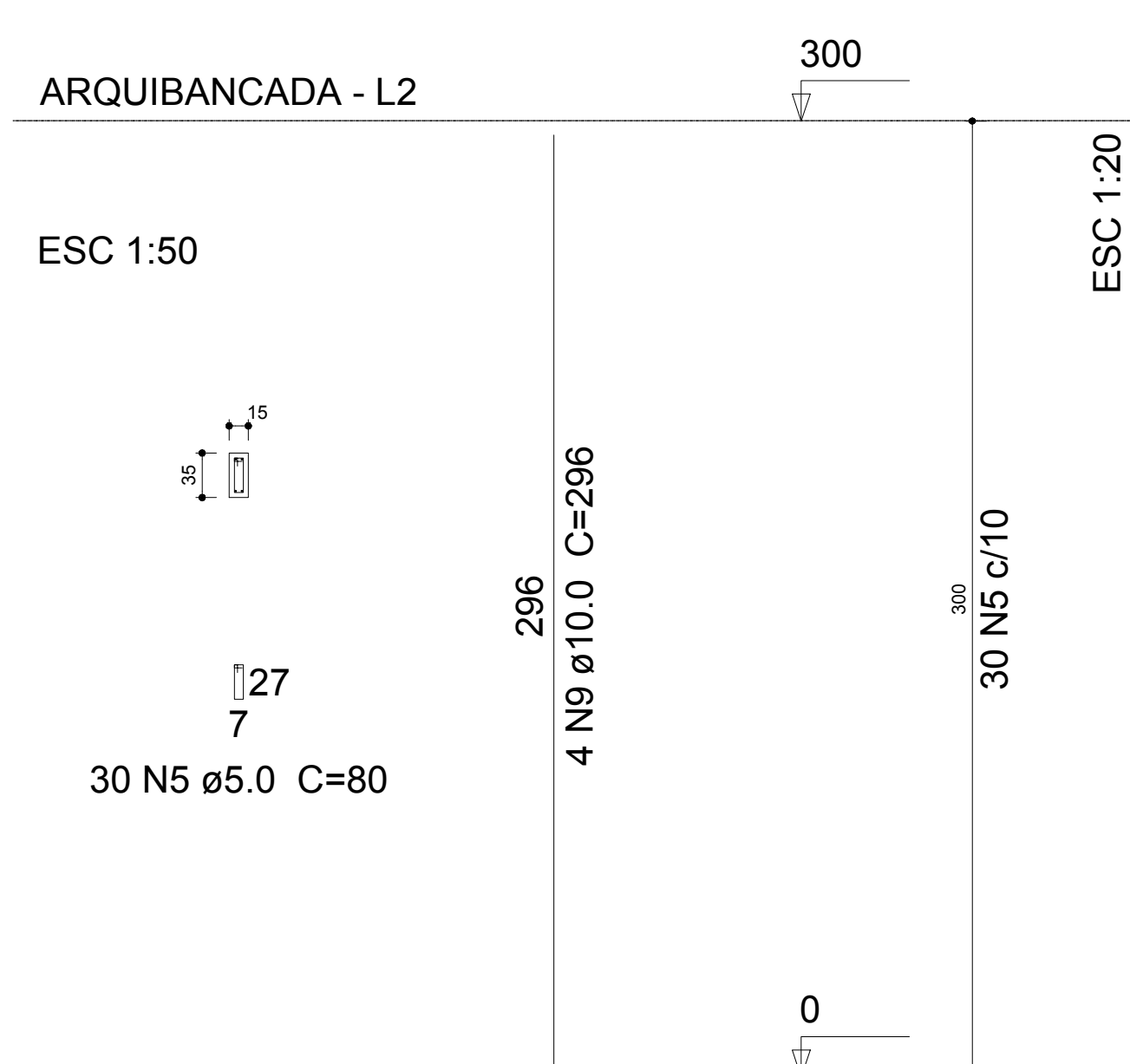
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.T. (%)
CA60	1	5.0	250	120	
	2	5.0	890	100	
	3	5.0	690	27	
	4	5.0	30	80	
	5	5.0	30	80	
	6	5.0	60	27	
	7	5.0	30	70	
	8	5.0	30	120	
CA50	9	10.0	234	296	
	10	12.5	32	296	
	11	16.0	4	296	
	12	20.0	4	296	

Resumo do aço

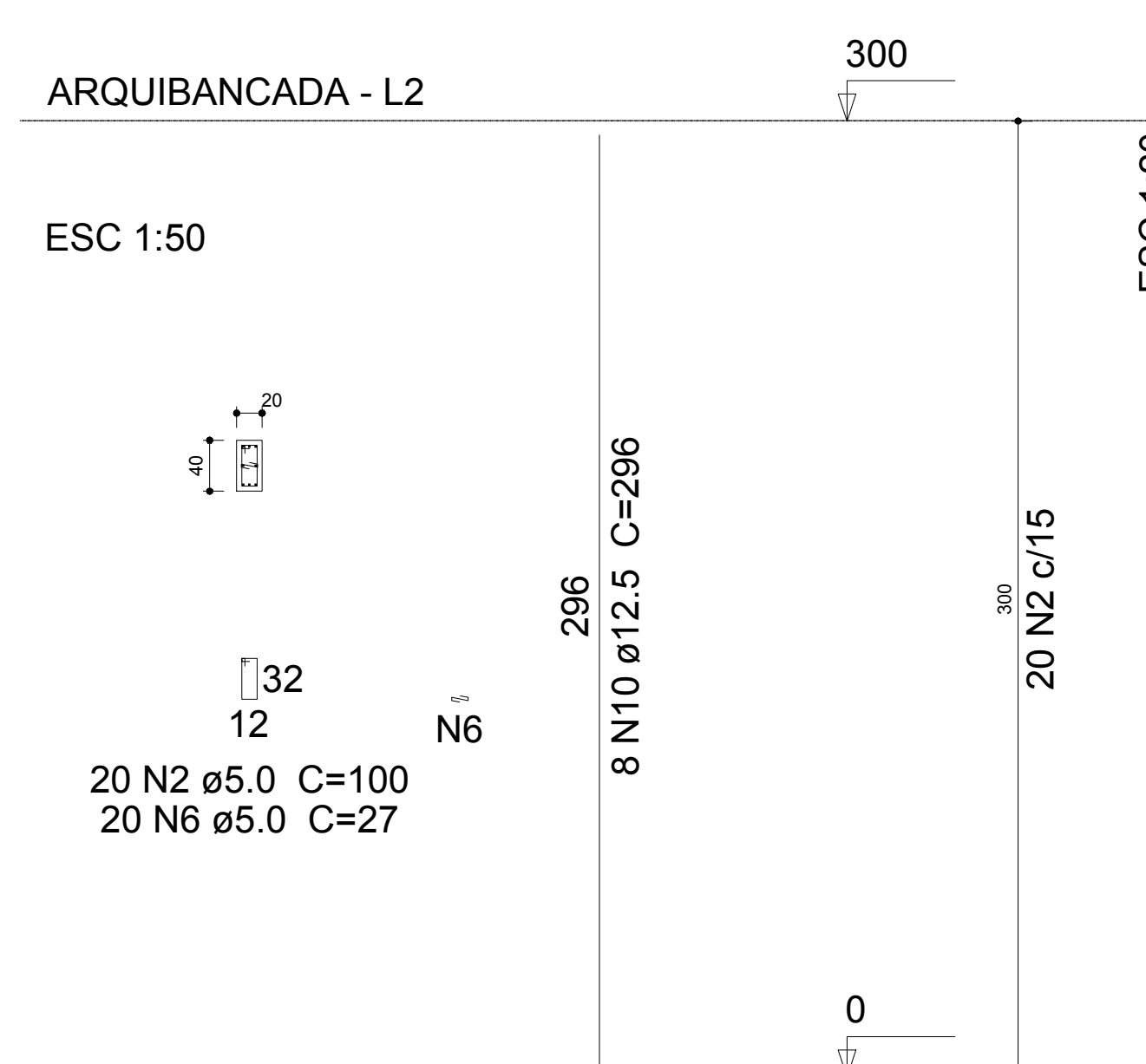
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	692.7	469.7
	12.5	94.8	100.4
	16.0	11.9	20.6
	20.0	11.9	32.1
CA60	5.0	1497.5	253.9
PESO TOTAL (kg)			
CA50		622.8	
CA60		253.9	

Volume de concreto (C-35) = 11.45 m³
Área de forma = 162.3 m²

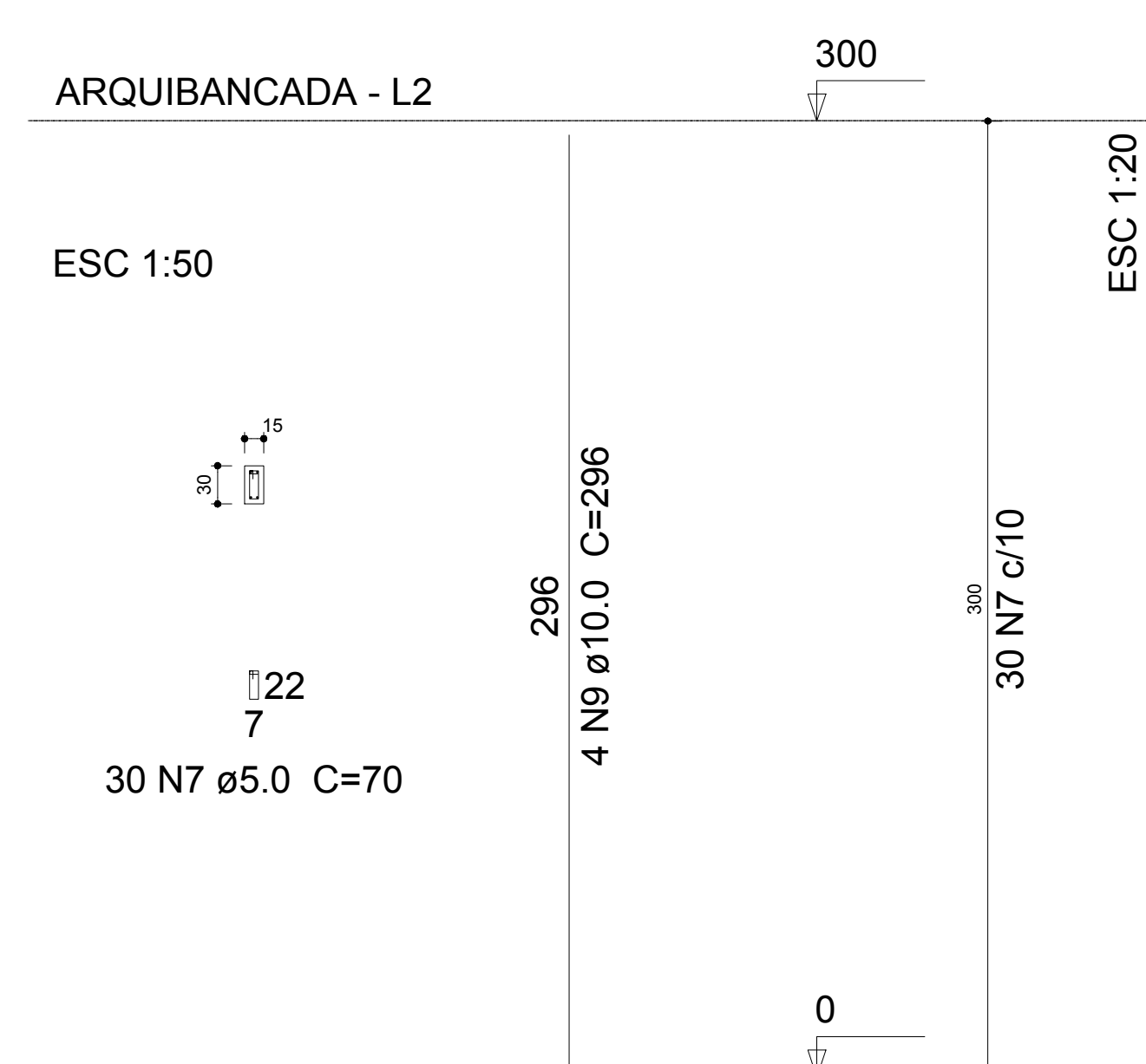
P34



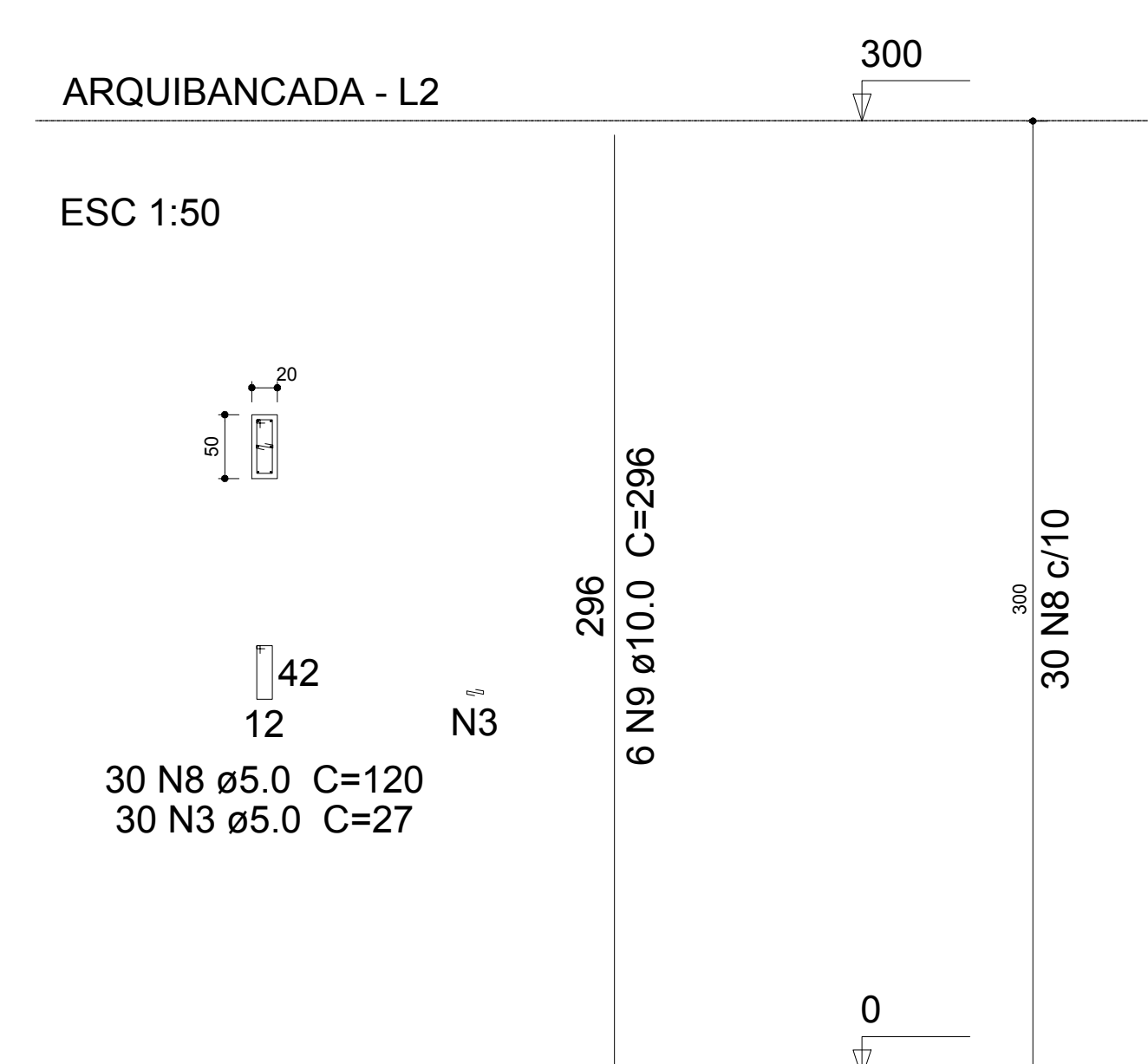
P50



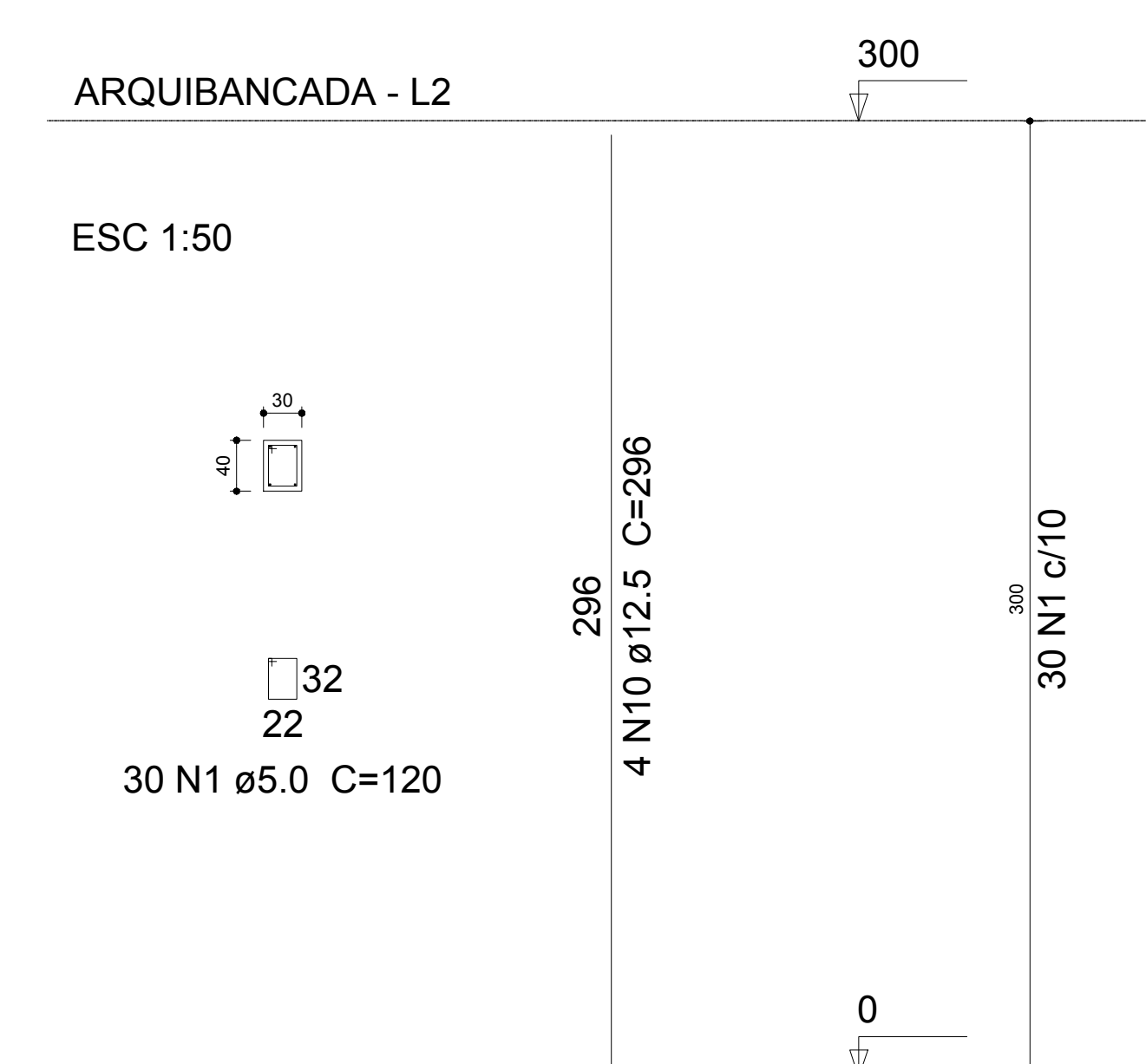
P57



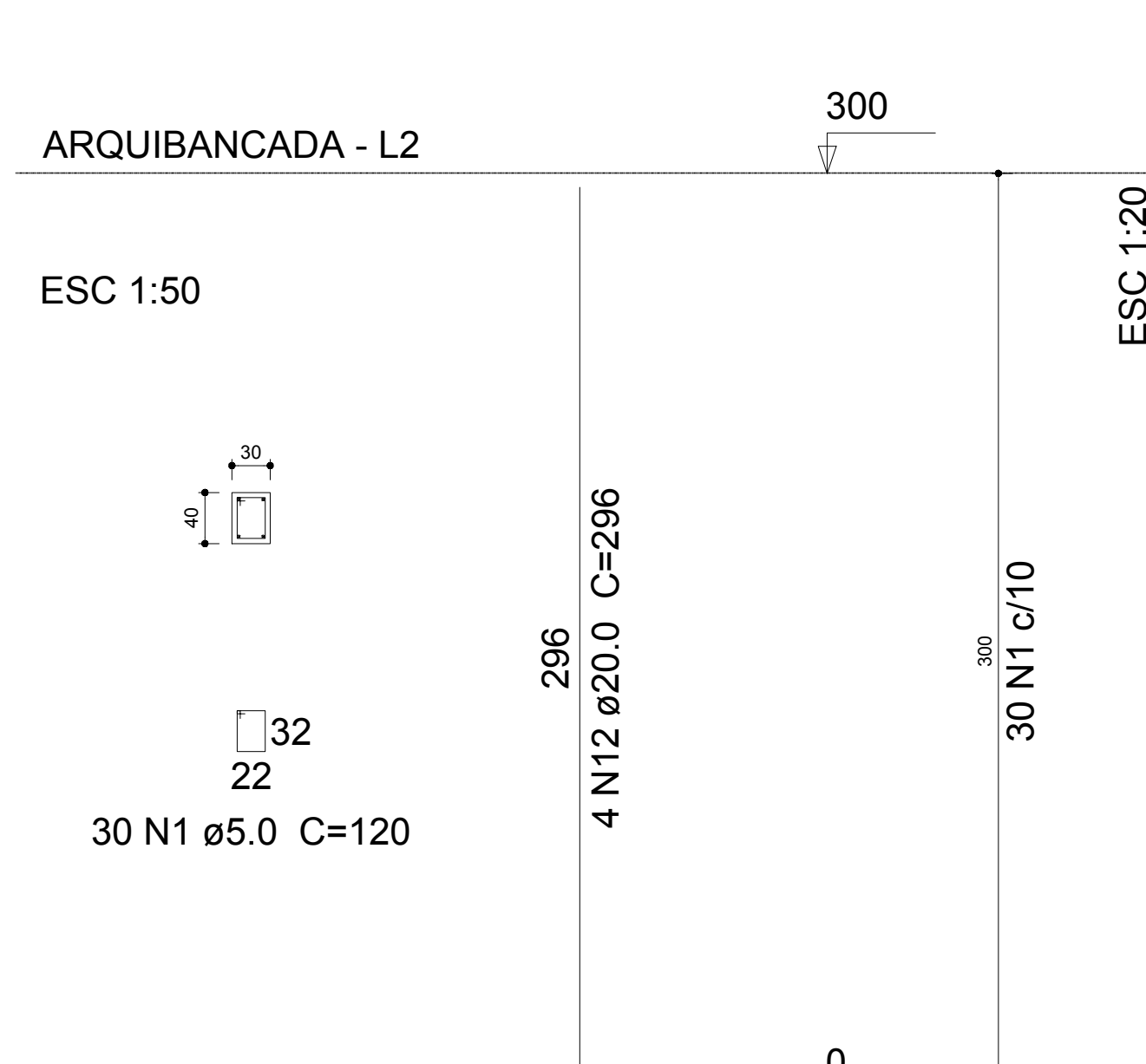
P64



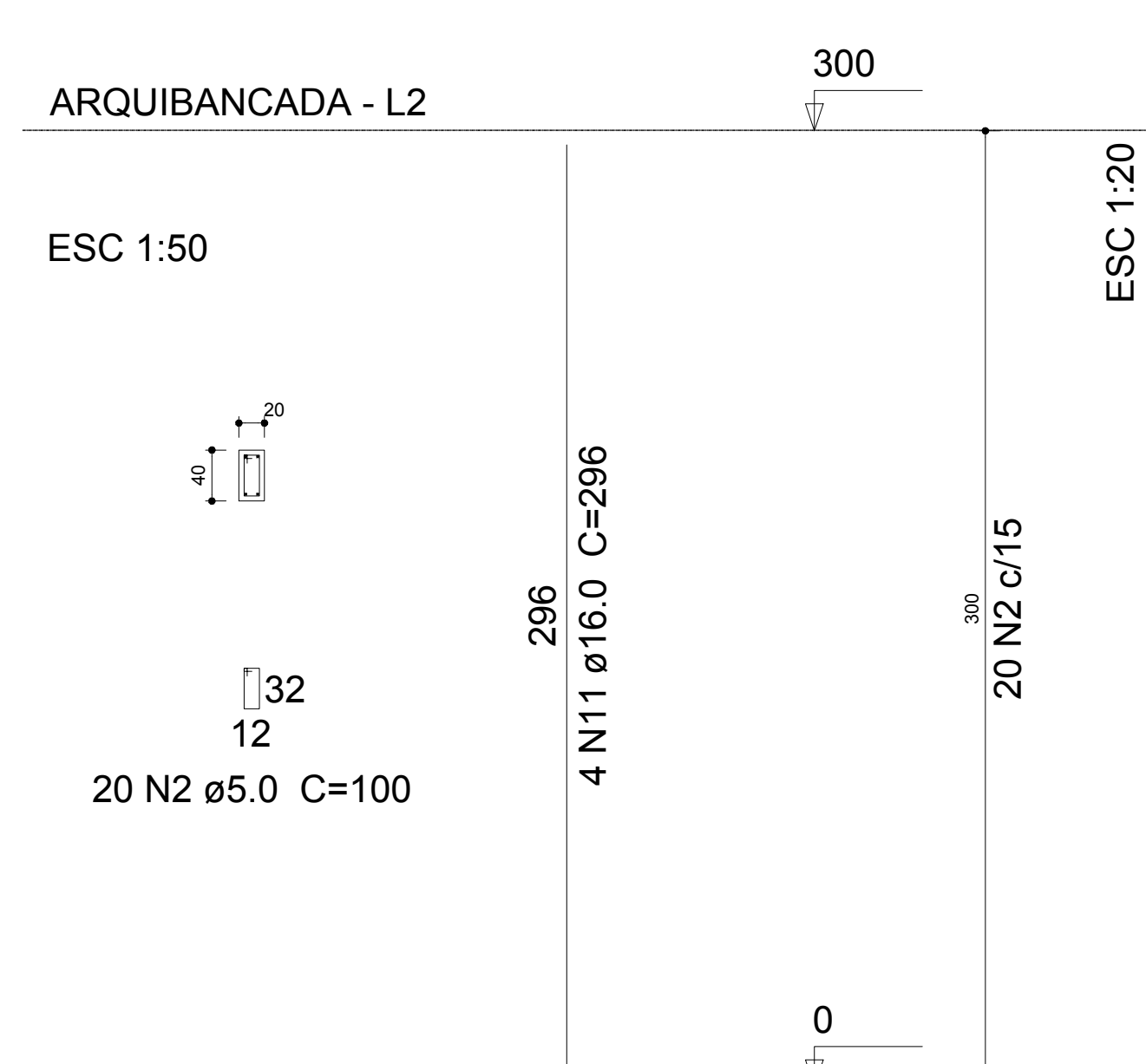
P68



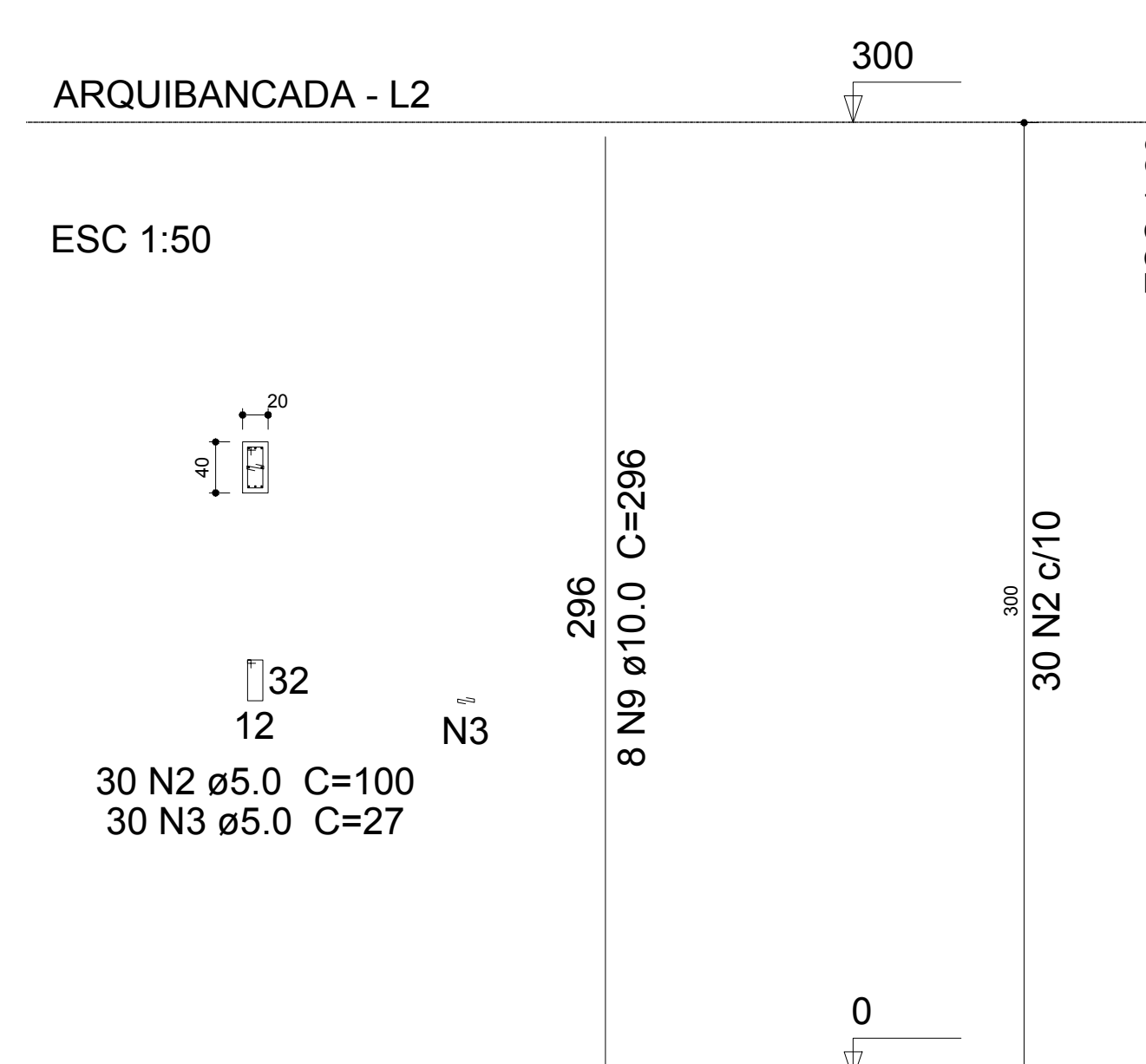
P86



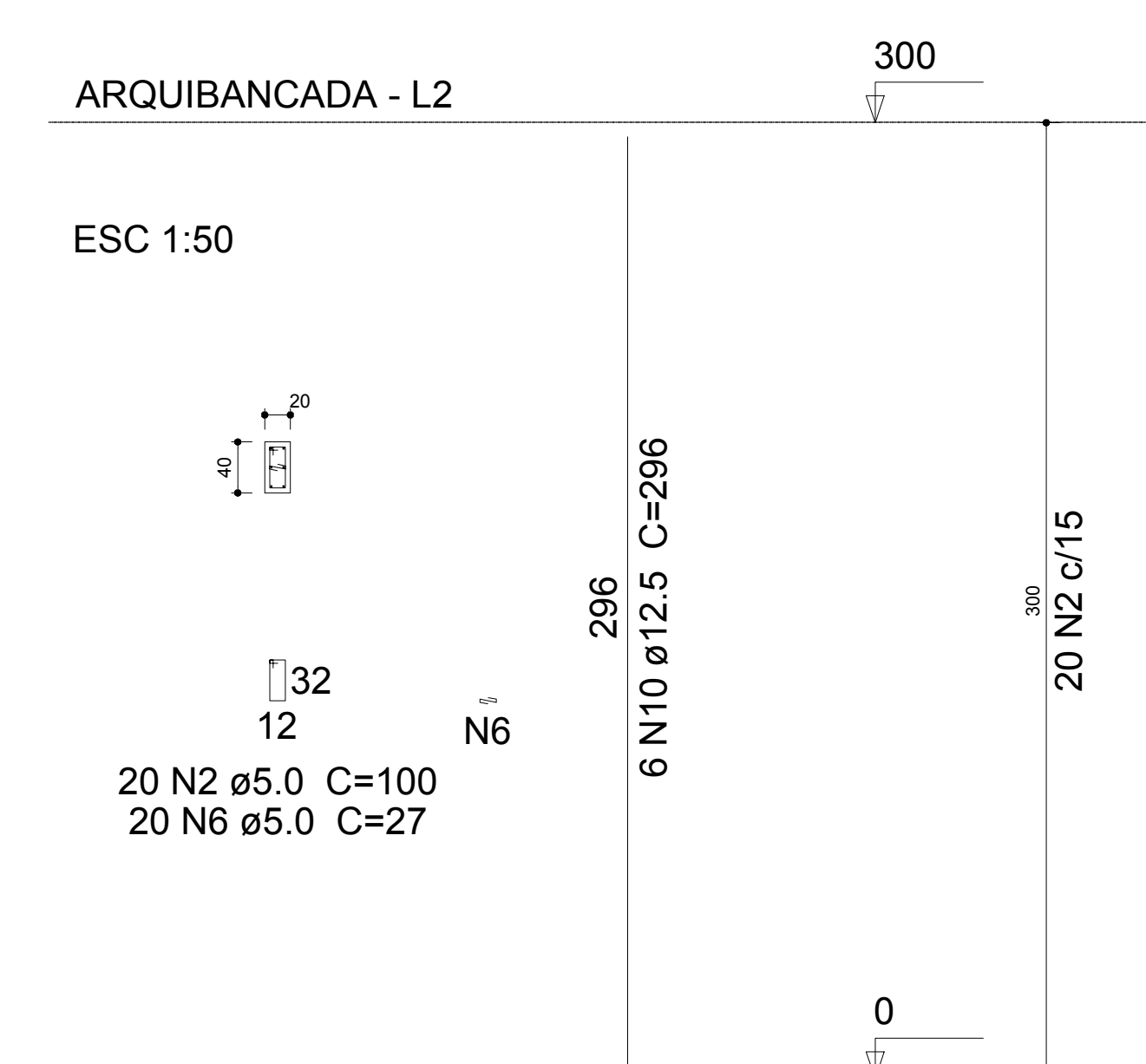
P89



P90=P91



P96=P97



18 PILARES CONVENCIONAIS
ESCALA: 1/50

Rua Primo Taccá, 300, Bairro Taccá - Jaraguá, SC
E-mail: engenharia.engeobra@gmail.com - Cel: (49) 9 9976-0226

OBRA: GINÁSIO SANTA TEREZINHA

LOCAL: Rua Achilles Biassotto, s/n, Bairro Guarany - Xaxim - SC

PROJETO: PROJETO ESTRUTURAL

ESPECIFICAÇÕES: - Pilares convencionais	DATA: 07/2021	DESENHO: T.L
	ÁREA: 3.544,73 m²	PRANCHA: 13 /27
	ESCALA: Indicada	

Projeto: _____ Proprietário: _____

SAMUEL SPESATTO OUTEIRO
Eng. Civil - CREA SC 133319-7

PREFEITURA MUNICIPAL DE XAXIM
CNPJ: 82.854.670/0001-30