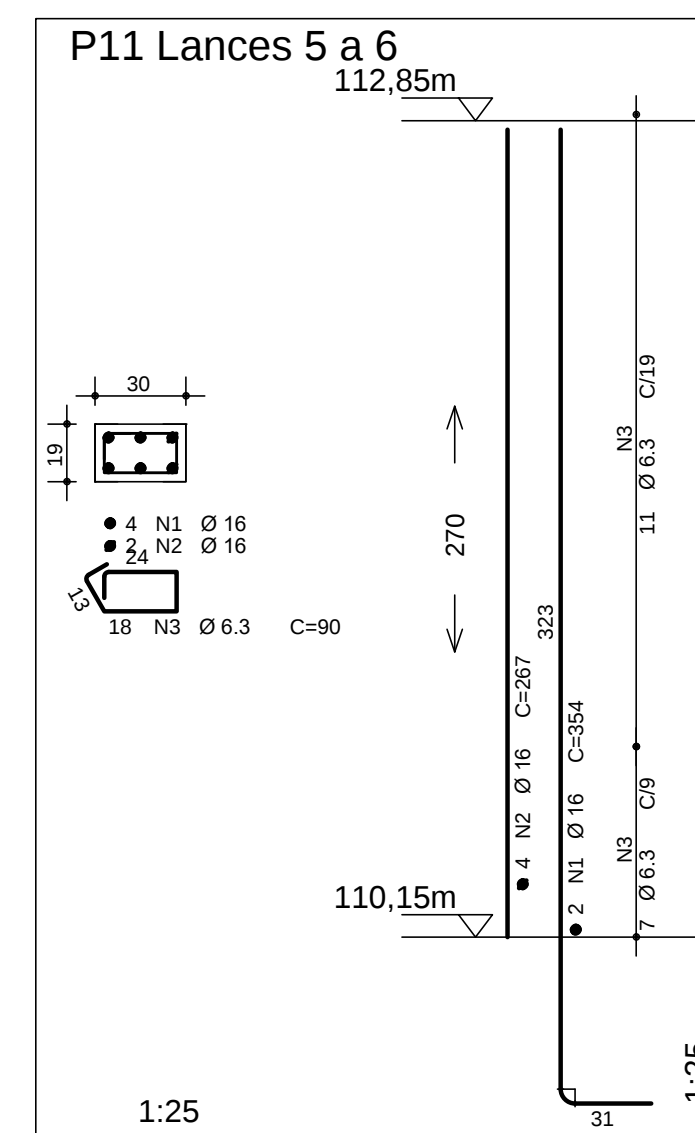
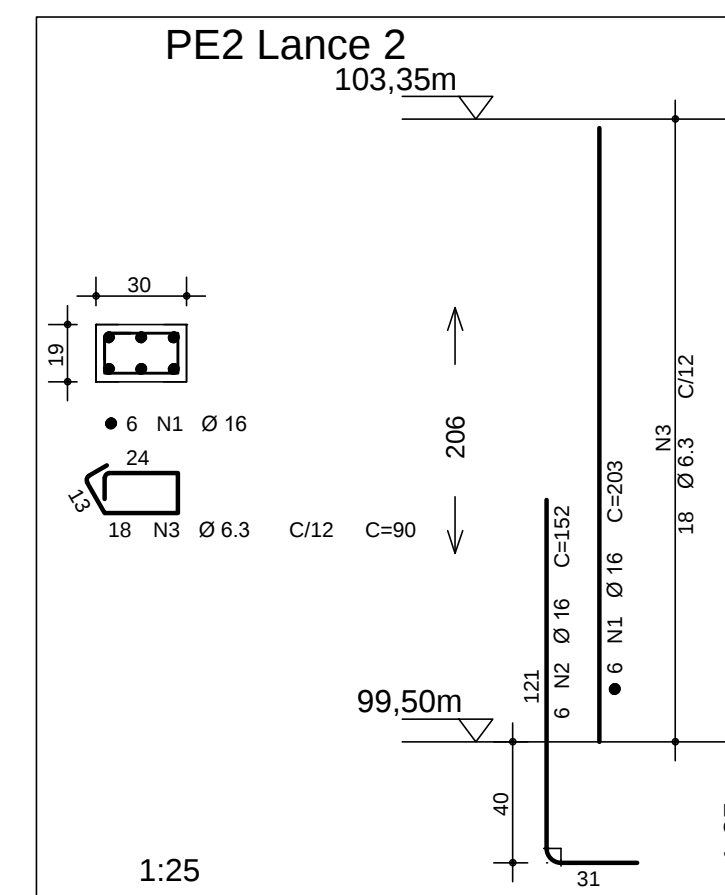
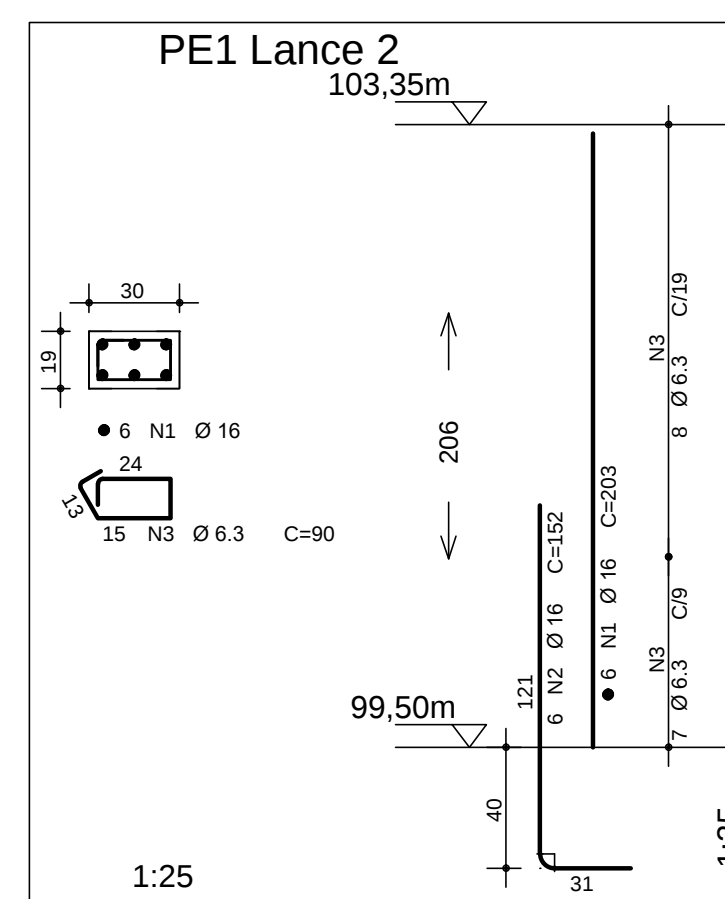
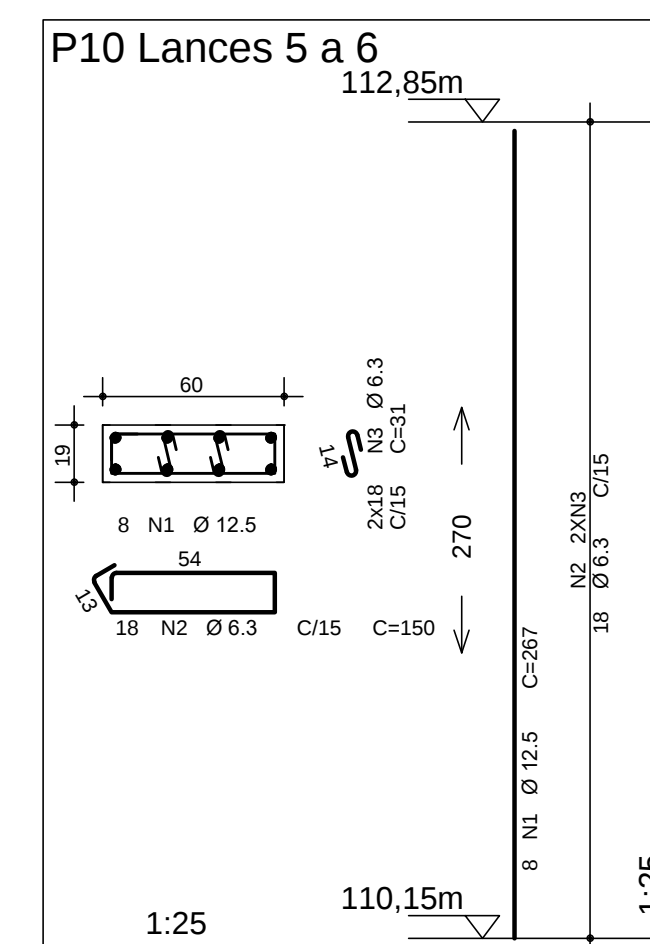
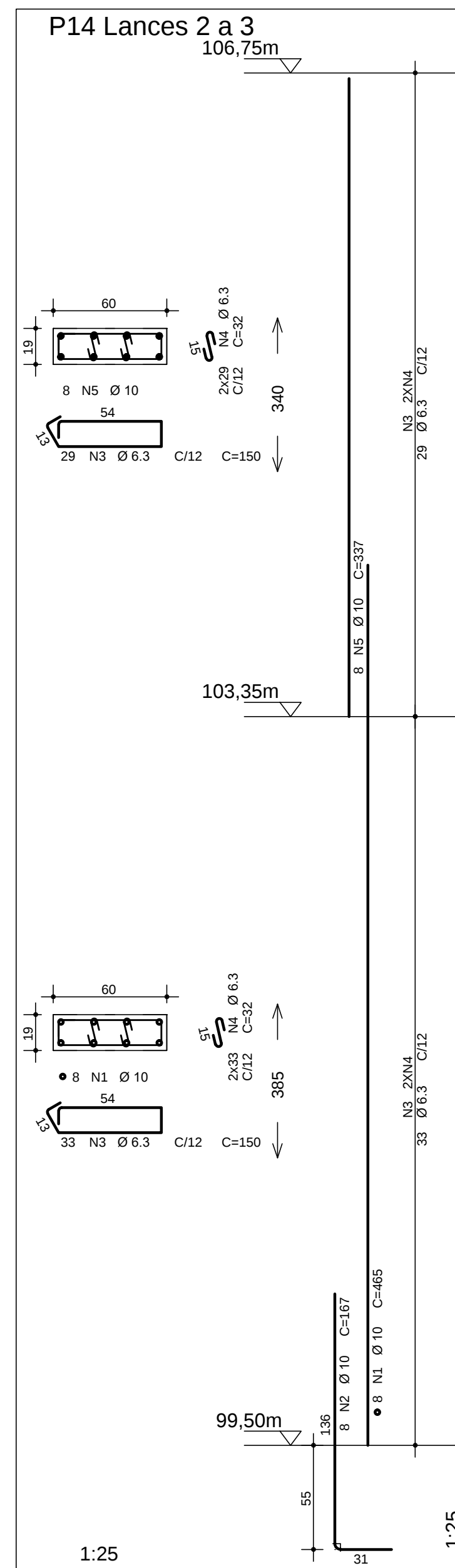
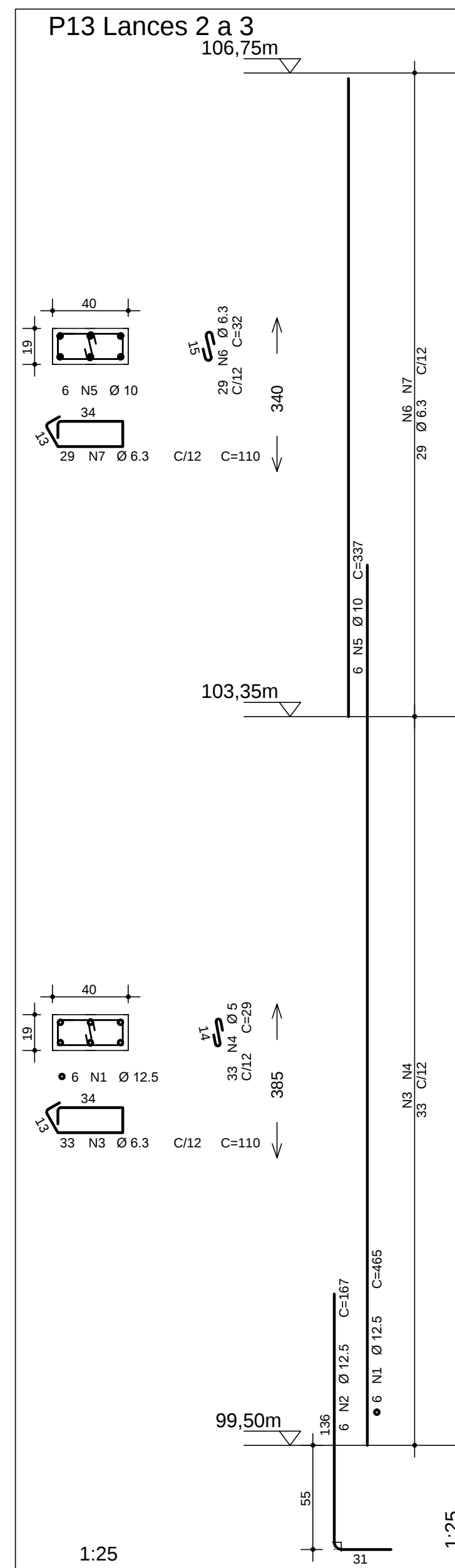
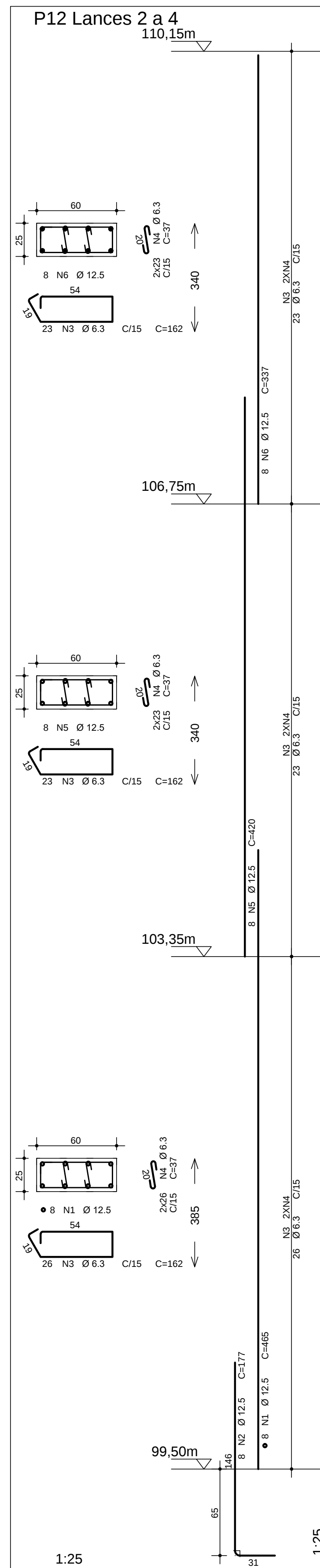
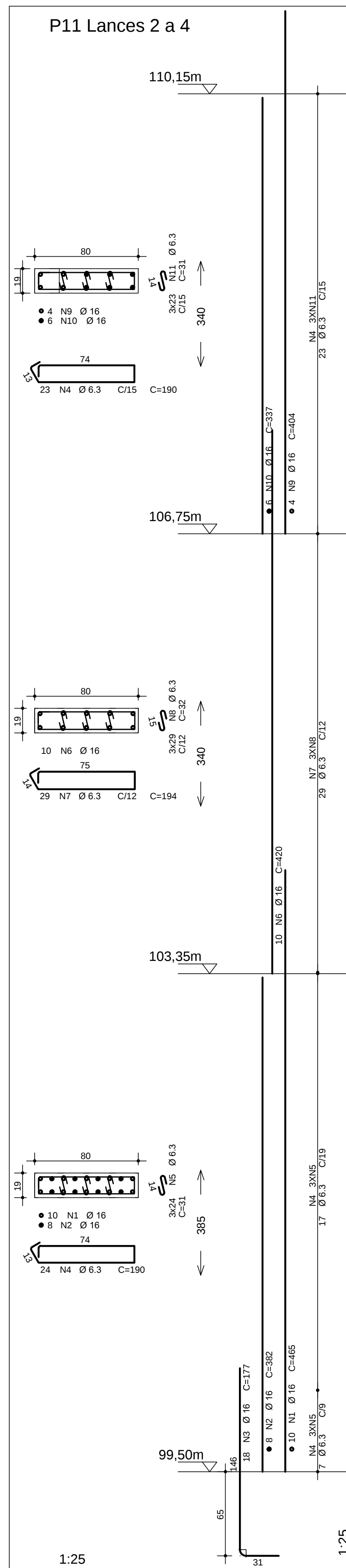
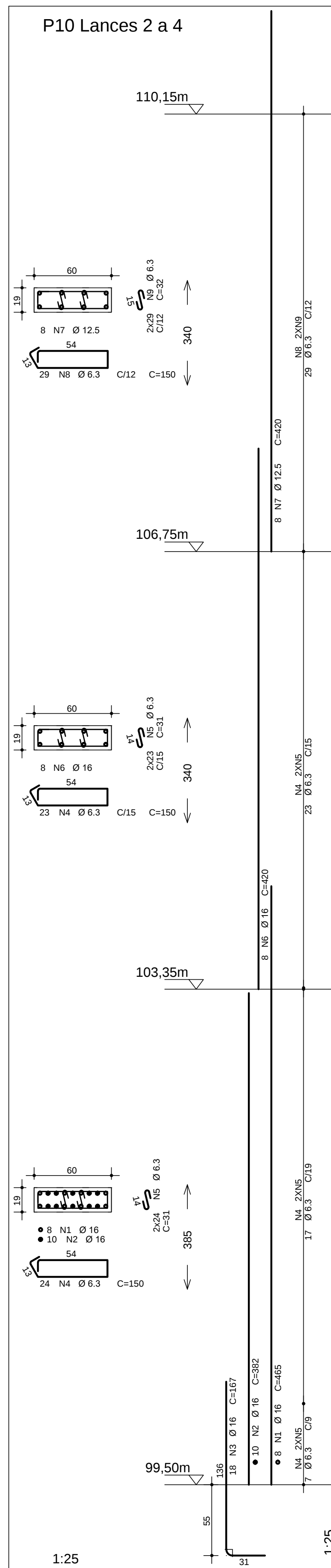
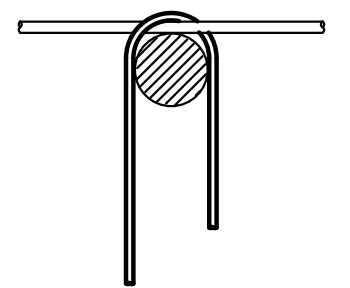




AÇO	POS	BIT (mm)	QUANT	COMPROMIMENTO	
				UNIT (cm)	TOTAL (cm)
P10 Lances 2 a 4					
50A	1	16	8	465	3720
50A	2	16	10	382	3820
50A	3	16	18	167	3006
50A	4	6.3	47	150	7050
50A	5	6.3	94	31	2914
50A	6	16	8	420	3360
50A	7	12.5	8	420	3360
50A	8	6.3	29	150	4350
50A	9	6.3	58	32	1856
P11 Lances 2 a 4					
50A	1	16	10	465	4650
50A	2	16	8	382	3056
50A	3	16	18	177	3186
50A	4	6.3	47	190	8930
50A	5	6.3	72	31	2232
50A	6	16	10	420	4200
50A	7	6.3	29	194	5626
50A	8	6.3	87	32	2784
50A	9	16	4	404	1616
50A	10	16	6	337	2022
50A	11	6.3	69	31	2139
P12 Lances 2 a 4					
50A	1	12.5	8	465	3720
50A	2	12.5	8	177	1416
50A	3	6.3	72	162	11664
50A	4	6.3	144	37	5328
50A	5	12.5	8	420	3360
50A	6	12.5	8	337	2696
P13 Lances 2 a 3					
50A	1	12.5	6	465	2790
50A	2	12.5	6	167	1002
50A	3	6.3	33	110	3630
60B	4	5	33	29	957
50A	5	6.3	6	337	2022
50A	6	6.3	29	32	928
50A	7	6.3	29	110	3190
P14 Lances 2 a 3					
50A	1	10	8	465	3720
50A	2	10	8	167	1336
50A	3	6.3	62	150	9300
50A	4	6.3	124	32	3968
50A	5	10	8	337	2696
PE1 Lance 2					
50A	1	16	6	203	1218
50A	2	16	6	152	912
50A	3	6.3	15	90	1350
PE2 Lance 2					
50A	1	16	6	203	1218
50A	2	16	6	152	912
50A	3	6.3	18	90	1620
P11 Lances 5 a 6					
50A	1	16	2	354	708
50A	2	16	4	267	1068
50A	3	6.3	18	90	1620
P10 Lances 5 a 6					
50A	1	12.5	8	267	2116
50A	2	6.3	18	150	2700
50A	3	6.3	36	31	1136

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	10	1
50A	6,3	853	213
50A	10	98	60
50A	12,5	204	200
50A	16	386	618
Peso Total	60B =	1 kg	
Peso Total	50A =	1059g	
Volume de Concreto =			6,95 m³

DET. DOS GANCHOS



EQUIPE TÉCNICA DA DIV. DE TEC. E INOV.			ASSINATURA
	ANÁLISE DE ARQUITETURA	ARG. Itzângela Keila de A. Rex Lampariello - CAU A40613-9	
	ANÁLISE DE ESTRUTURA	ENG. João Luis Maranhão Biscailoa - CREA Nº 170.587.456-8	
	ANÁLISE DE ELÉTRICA	ENG. VALDIR PIETROBON - CREA Nº 0601115144	
	ANÁLISE DE HIDRÁULICA	ENG.ZELIA R. SERENO - CREA Nº 0601578832	
RESPONSÁVEL PELA CONTRATADA	ENG. EDUARDO JOSE B. O. PRATA - CREA Nº 5061939774		

[illegible]