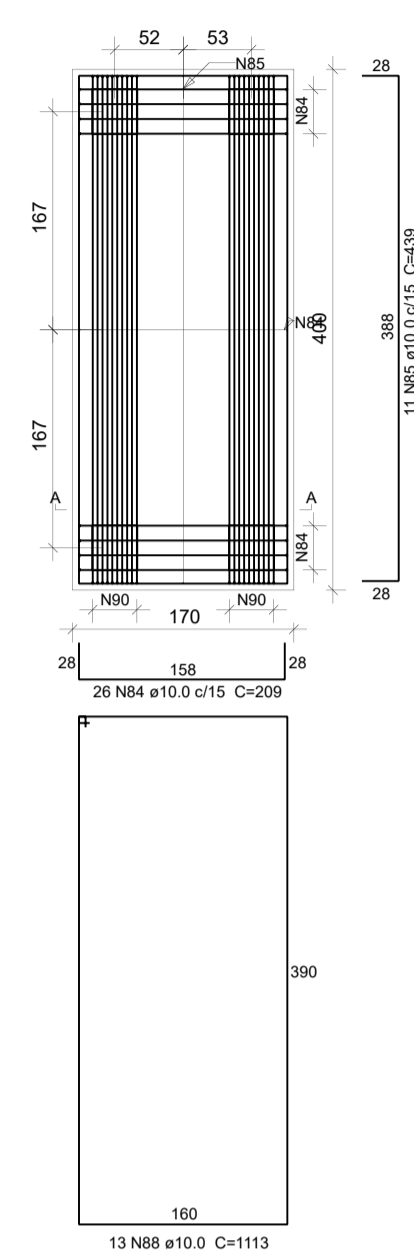
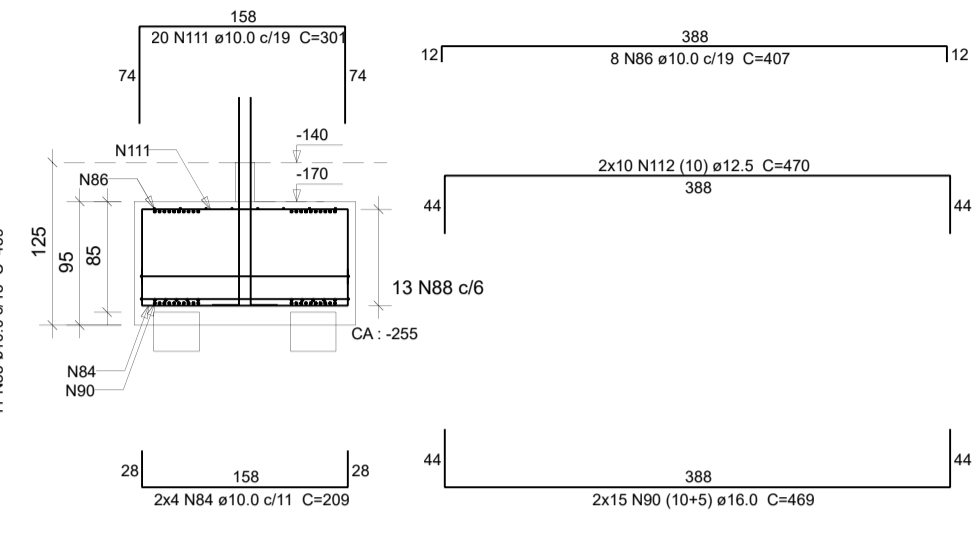


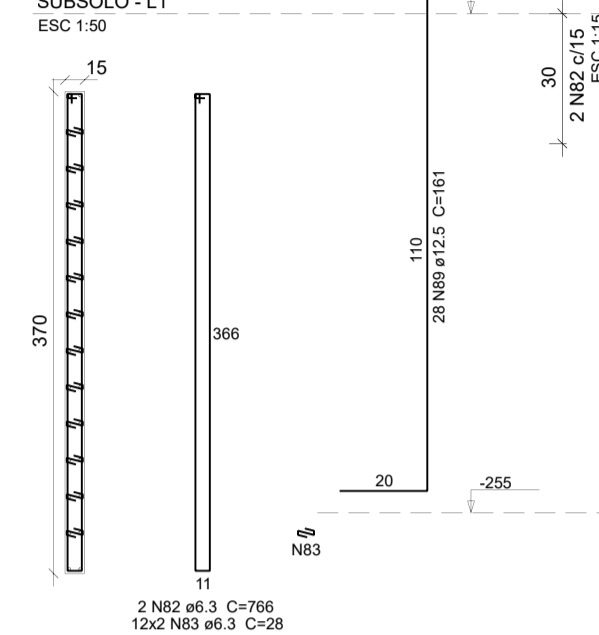
**B81**  
6xM28  
PLANTA  
ESC 1:50



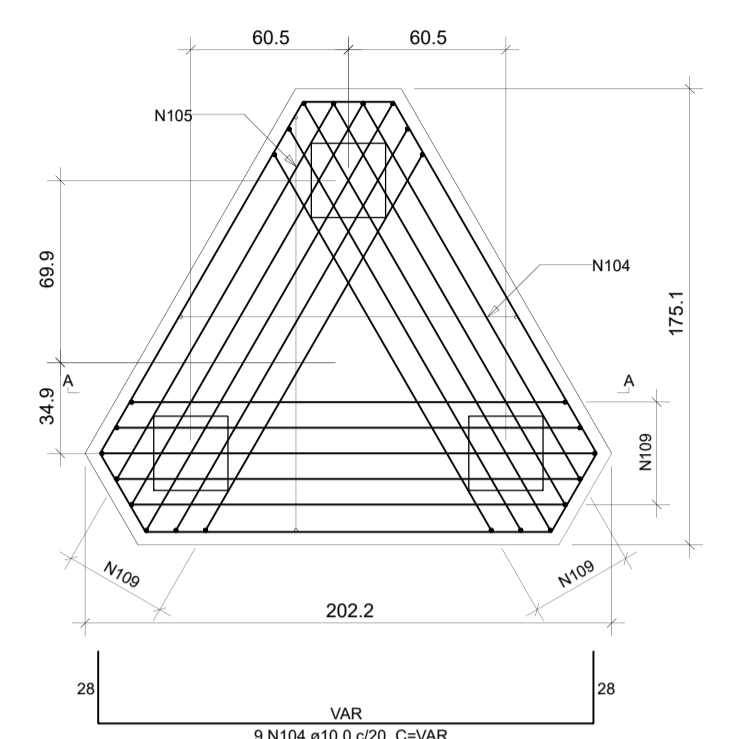
**CORTE A-A**  
ESC 1:50



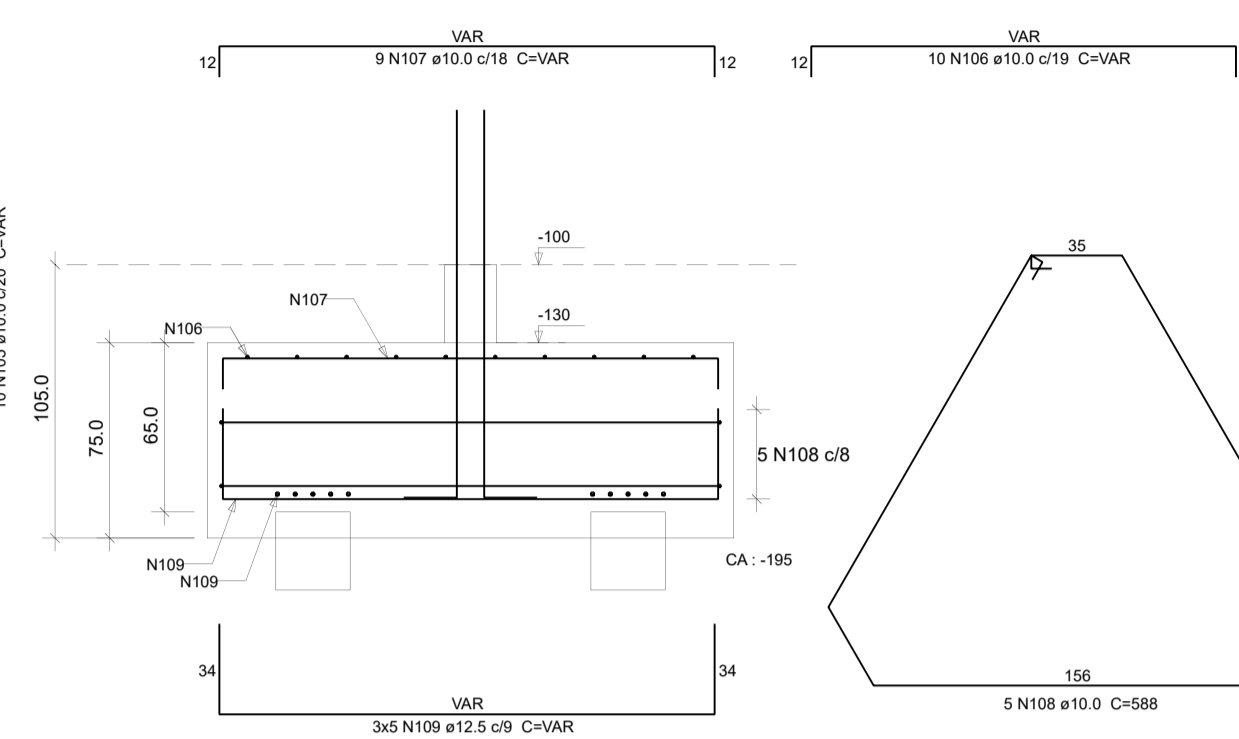
**P81**  
SUBSOLO - L1  
ESC 1:50



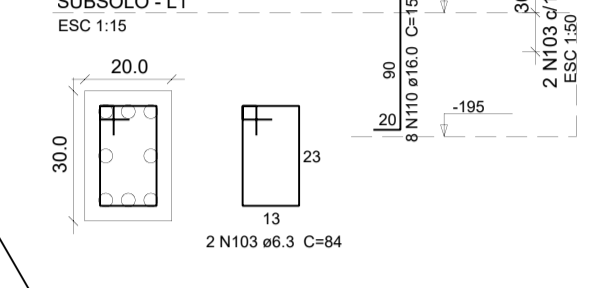
**B55=B57**  
3xM28  
PLANTA  
ESC 1:25



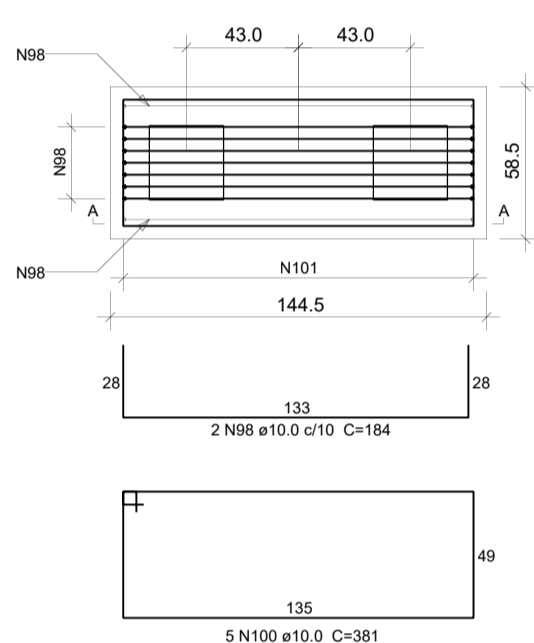
**CORTE A-A**  
ESC 1:25



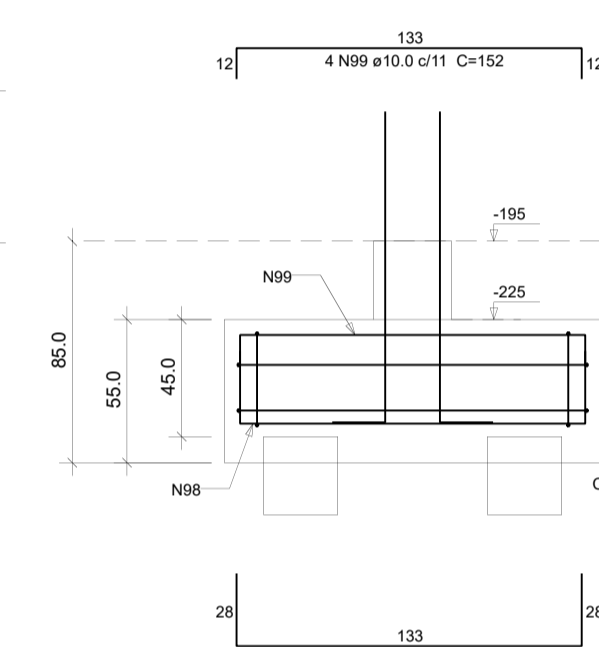
**P55=P57**  
SUBSOLO - L1  
ESC 1:15



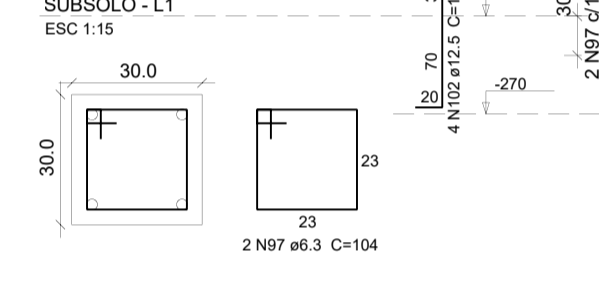
**B6**  
2xM28  
PLANTA  
ESC 1:25



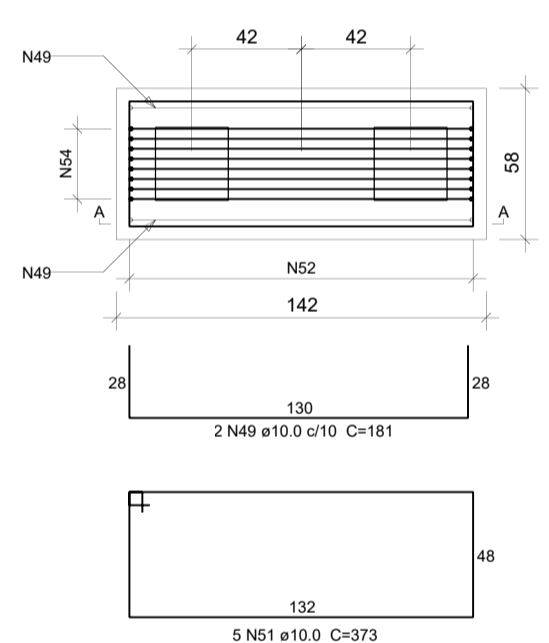
**CORTE A-A**  
ESC 1:25



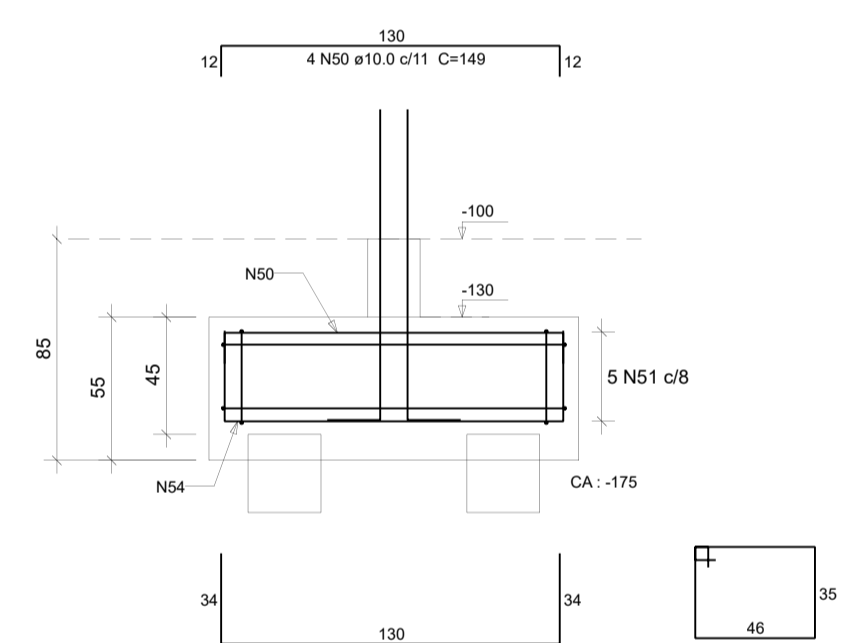
**P6**  
SUBSOLO - L1  
ESC 1:15



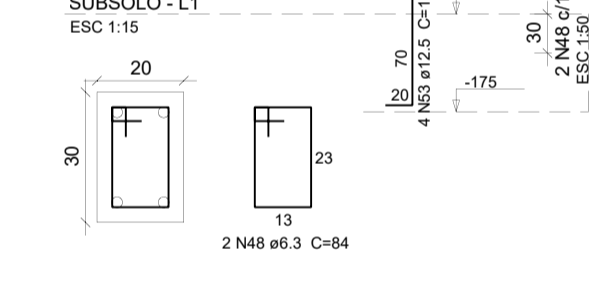
**B28=B30=B35=B37**  
2xM28  
PLANTA  
ESC 1:25



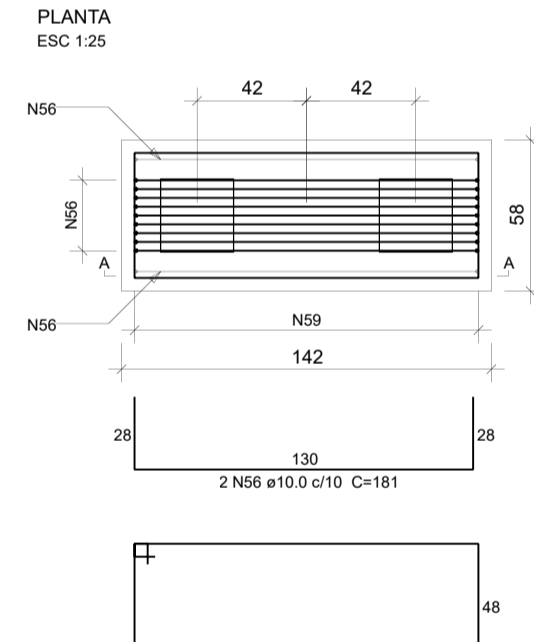
**CORTE A-A**  
ESC 1:25



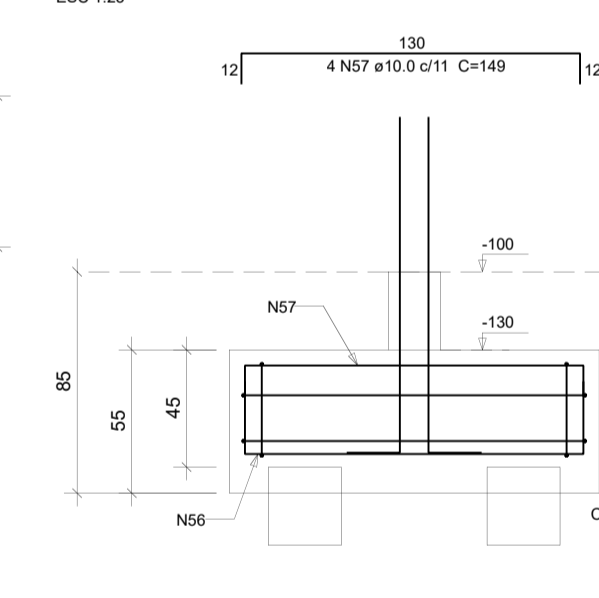
**P28=P30=P35=P37**  
SUBSOLO - L1  
ESC 1:15



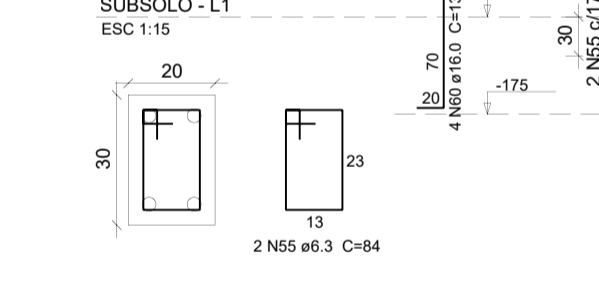
**B45**  
2xM28  
PLANTA  
ESC 1:25



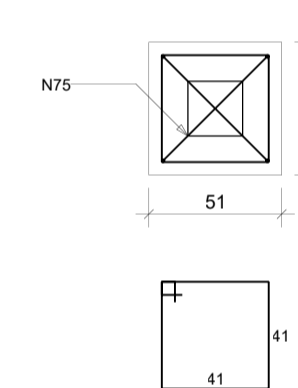
**CORTE A-A**  
ESC 1:25



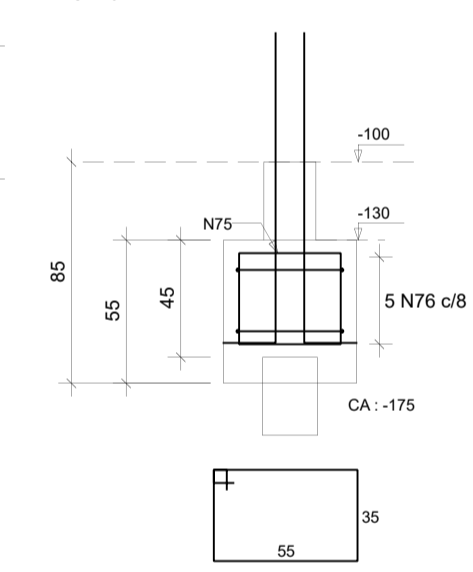
**P45**  
SUBSOLO - L1  
ESC 1:15



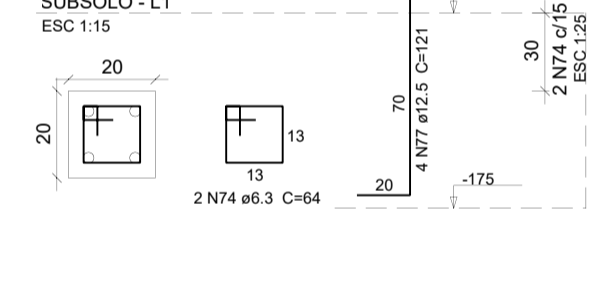
**B60**  
1xM21  
PLANTA  
ESC 1:25



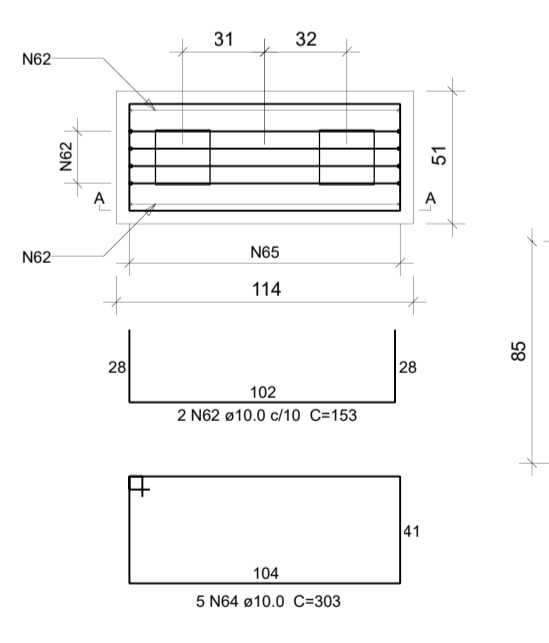
**CORTE**  
ESC 1:25



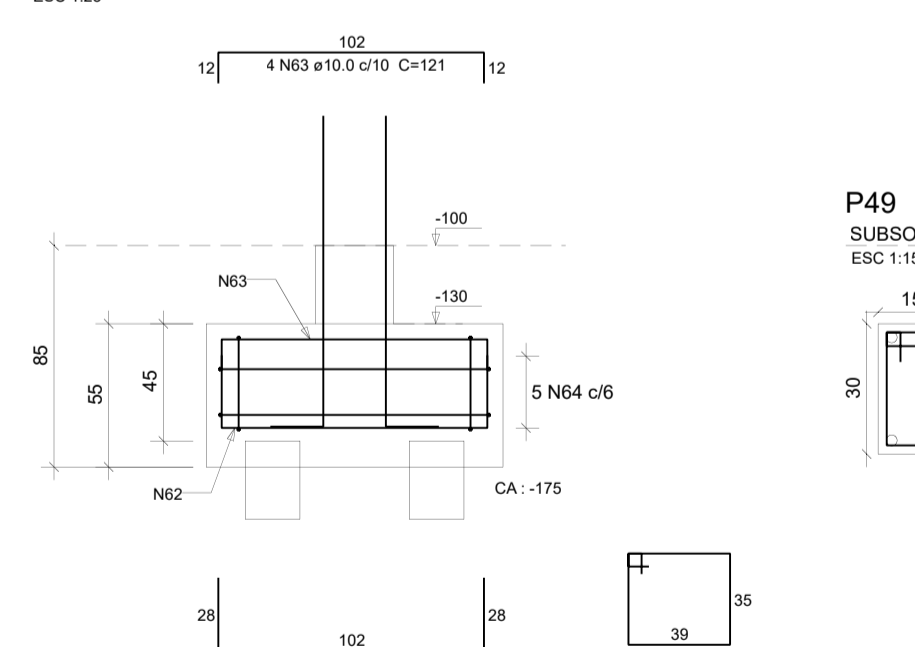
**P60**  
SUBSOLO - L1  
ESC 1:15



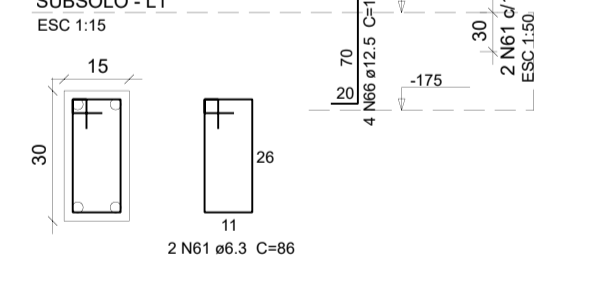
**B49**  
2xM21  
PLANTA  
ESC 1:25



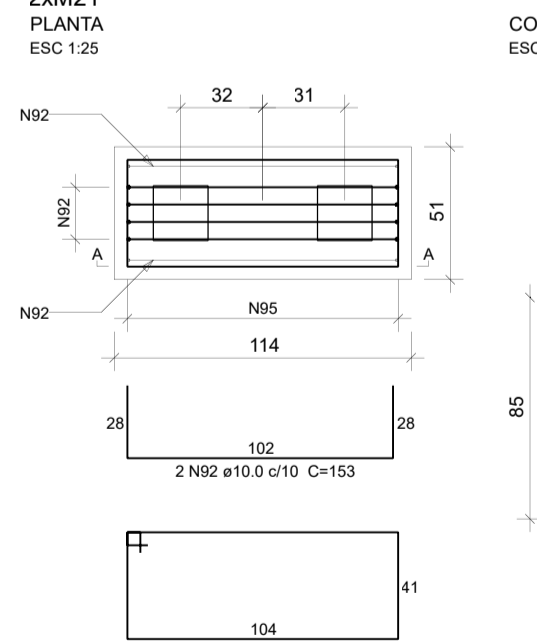
**CORTE A-A**  
ESC 1:25



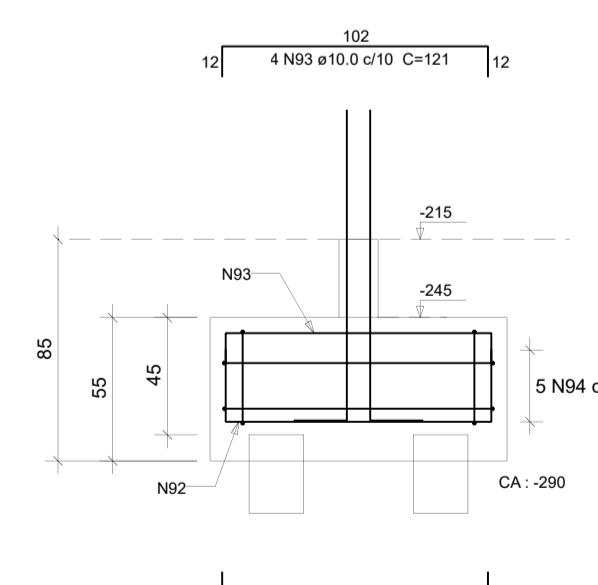
**P49**  
SUBSOLO - L1  
ESC 1:15



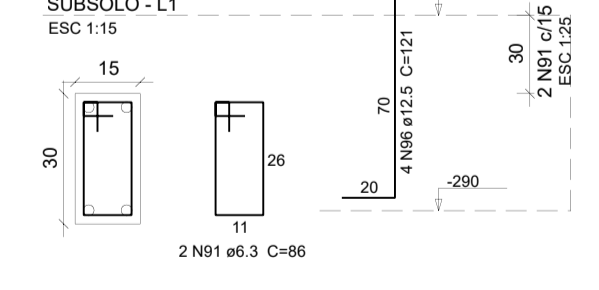
**B7=B83**  
2xM21  
PLANTA  
ESC 1:25



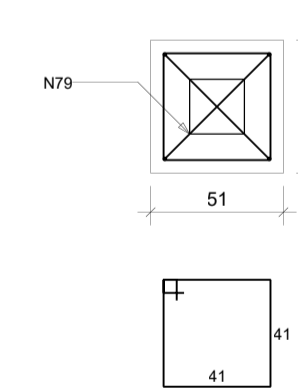
**CORTE A-A**  
ESC 1:25



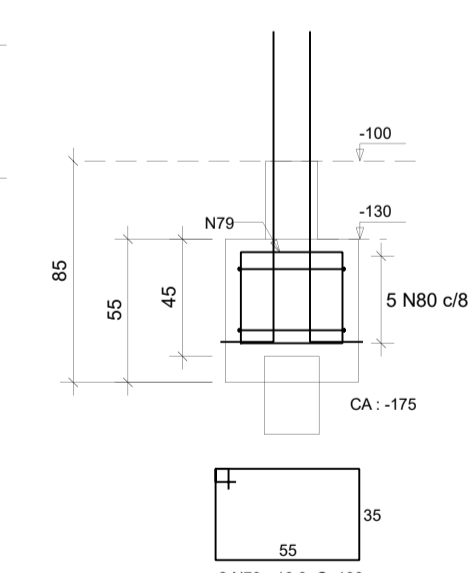
**P7=P83**  
SUBSOLO - L1  
ESC 1:15



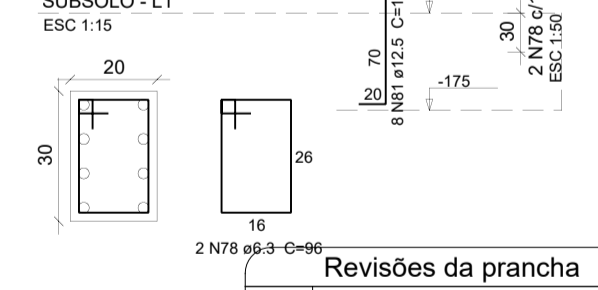
**B70**  
1xM21  
PLANTA  
ESC 1:25



**CORTE**  
ESC 1:25



**P70**  
SUBSOLO - L1  
ESC 1:15



**Relação do aço**

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C (UNIT)	C TOTAL (cm)	C TOTAL (cm)
B6	CA50	97	6.3	2	104	208	1656
	CA50	98	10.0	9	184	1656	1500
	CA50	99	10.0	4	152	608	1905
	CA50	100	10.0	5	381	1905	1777
	CA50	101	10.0	5	177	885	181
	CA50	102	12.5	4	121	484	181
	CA50	48	6.3	8	84	672	1448
	CA50	49	10.0	8	161	1448	149
	CA50	50	10.0	16	149	2384	373
	CA50	51	10.0	20	373	7460	175
B45	CA50	52	10.0	20	175	3500	181
	CA50	53	12.5	18	121	1936	84
	CA50	54	6.3	2	84	168	181
	CA50	55	10.0	11	181	1991	181
	CA50	56	10.0	4	149	596	185
	CA50	58	10.0	5	373	1885	153
	CA50	62	10.0	6	153	918	150
	CA50	60	16.0	4	150	520	172
	CA50	61	6.3	2	86	172	153
	CA50	63	10.0	4	121	484	303
B49	CA50	64	10.0	5	303	1515	161
	CA50	65	10.0	5	161	805	121
	CA50	66	12.5	4	121	484	338
	CA50	103	6.3	4	84	338	100
	CA50	104	10.0	18	VAR	VAR	100
	CA50	105	10.0	20	VAR	VAR	100
	CA50	106	10.0	20	VAR	VAR	100
	CA50	107	10.0	18	VAR	VAR	100
	CA50	108	10.0	10	588	5880	177
	CA50	109	12.5	30	VAR	VAR	160
B80	CA50	110	16.0	16	150	2400	185
	CA50	74	6.3	2	84	128	185
	CA50	75	10.0	2	193	386	177
	CA50	76	10.0	5	177	885	121
	CA50	77	12.5	4	121	484	96
	CA50	78	6.3	2	96	192	185
	CA50	79	10.0	2	193	386	185
	CA50	80	10.0	5	177	885	121
	CA50	81	12.5	8	121	968	185
	CA50	82	6.3	2	768	532	24
B81	CA50	83	6.3	24	26	672	1706
	CA50	84	10.0	34	209	344	439
	CA50	85	10.0	11	439	4829	407
	CA50	86	10.0	8	407	3256	303
	CA50	111	10.0	20	301	6020	181
	CA50	88	10.0	13	1113	14489	1610
	CA50	89	12.5	28	161	4508	470
	CA50	112	12.5	20	470	9400	499
	CA50	90	16.0	30	499	14070	85
	CA50	91	6.3	4	85	344	153
B83	CA50	92	10.0	12	153	1836	121
	CA50	93	10.0	8	121	968	303
	CA50	94	10.0	10	303	3030	1610
	CA50	95	10.0	10	161	1610	121
	CA50	96	12.5	8	121	968	121

**Resumo do aço**

AÇO	DIAM (mm)	C TOTAL (m)	QUANT + 15% (Barras)	PESO + 15% (kg)
CA50	6.3	44.3	5	12.4
CA50	10.0	964.7	93	683.9
CA50	12.5	329.4	32	384.9
CA50	16.0	169.9	17	308.4
<b>PESO TOTAL</b>				<b>1369.6</b>

Volume de concreto (C=40) = 14.94 m³  
Área de forma = 59.63 m²

**Revisões da prancha**

Nº	Comentário	Aut	Data
1	ALTERAÇÃO PILAR P81, AUMENTO CASA DE MÁQUINAS E INCLUSÃO FUNDAÇÃO COBERTURA		18SET15
2	ALTERAÇÃO BLOCOS B6, B55, B57 E B81	MADSON	13FEV15
0	EMISSÃO		

**ESTRUTURA**

PROFESSOR: \_\_\_\_\_

DISCIPLINA: \_\_\_\_\_

ENDEREÇO: \_\_\_\_\_

ASSUNTO: BLOCOS DE COROAMENTO

PRIMEIRO: SUBSOLO ESCALA: IND CONJUNTO: 2

TÍTULO: DETALHAMENTO FOLHA: 1 / 5

P 66 / 14 DATA: 13FEV15

O controle tecnológico do concreto, além de obrigatório por Norma, é imprescindível para a garantia da qualidade da estrutura e tomada de decisão nos casos de não conformidades

DIÂMETRO (Ø) DOS PINOS DE DOBRAMENTO PARA GANCHOS

BITOLA (Ø)	CASO	CARGO
<20mm	5xØ	6xØ
>20mm	8xØ	—
estalo	3xØ	3xØ

NBR 6118-2003 (Item 9.4.2.3 e 9.4.6.1)

O presente projeto foi elaborado de acordo com a NBR 6118:2014 foram adotados os seguintes parâmetros: agressividade ambiental (tab. 6.1) - CLASSE II qualidade do concreto para CA (tab 7.1)- fator água/cimento <=0,55 classe do concreto (NBR 8953) especificada na planta de formas vida útil da estrutura - 50 anos

cobrimento nominal (tab. 7.2) especificada no detalhamento com as respectivas reduções para peças de acordo com o item 6.4.2 pilar mínimo 360 cm2. tempo previsto para desforma - 21 dias