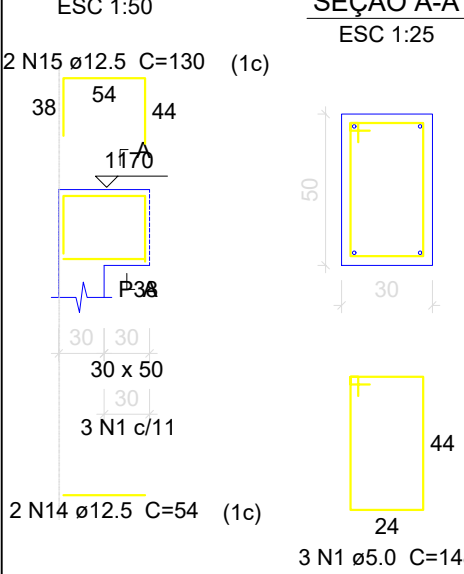
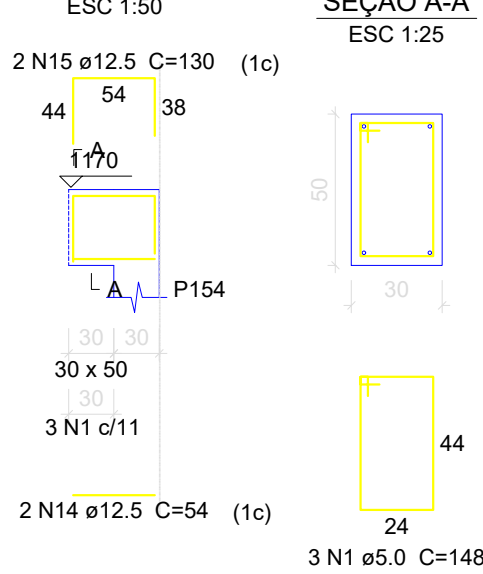


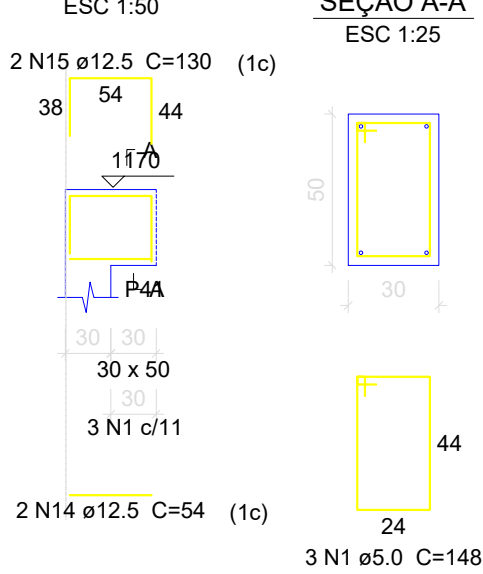
CONSOLE1



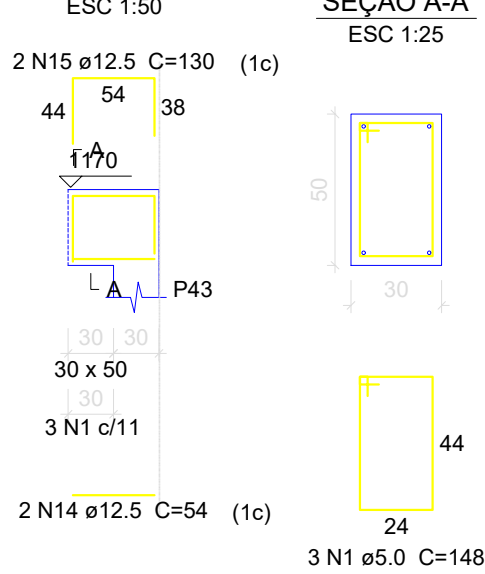
CONSOLE2



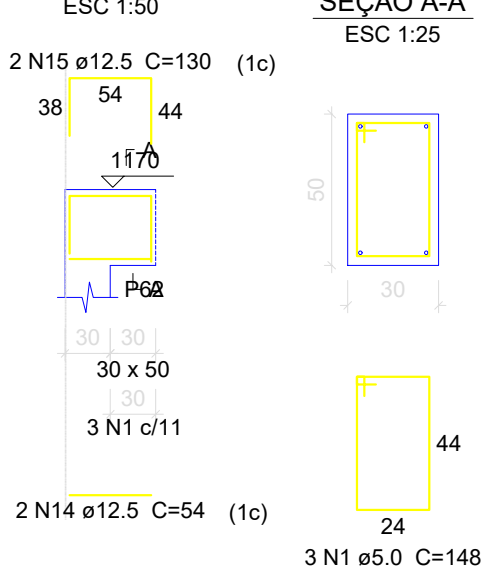
CONSOLE3



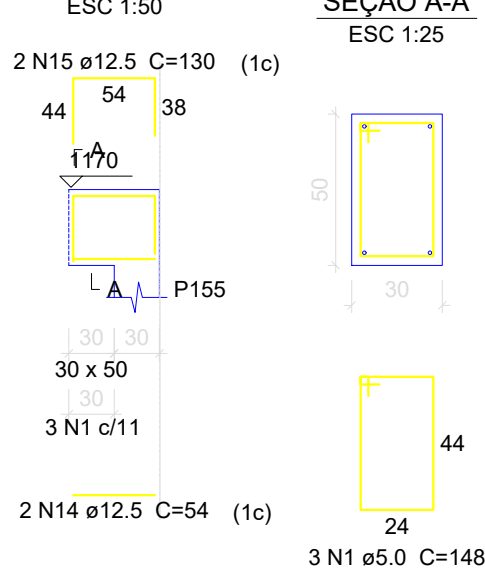
CONSOLE4



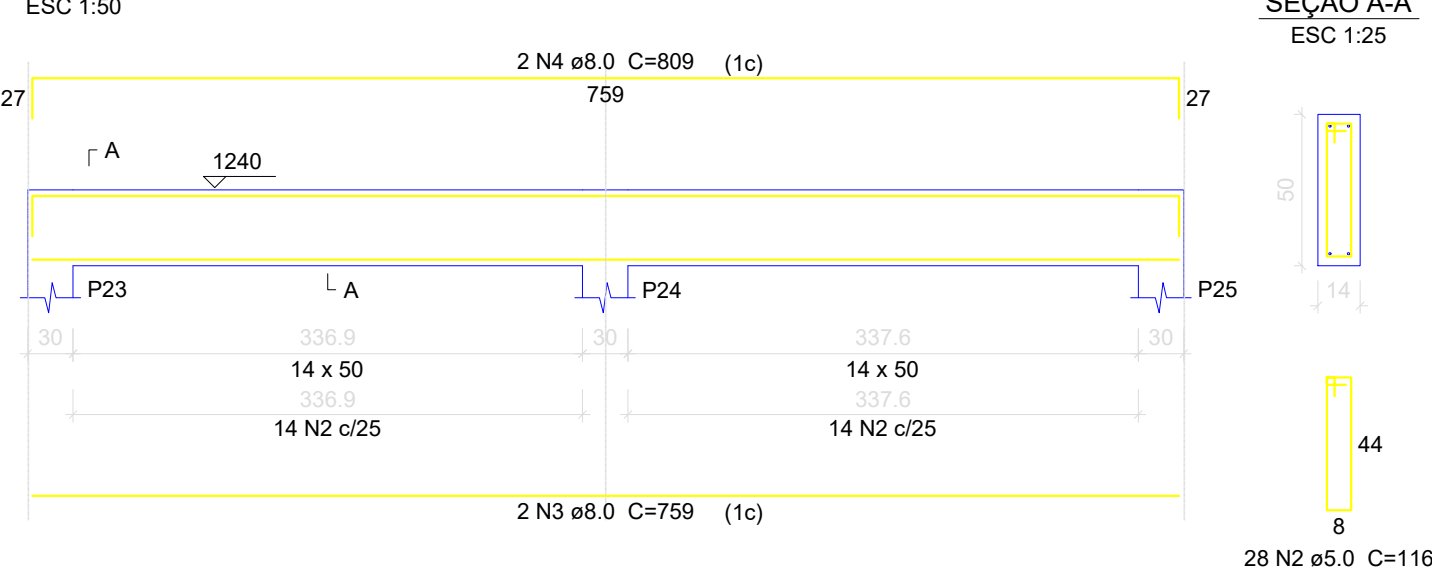
CONSOLE5



CONSOLE6

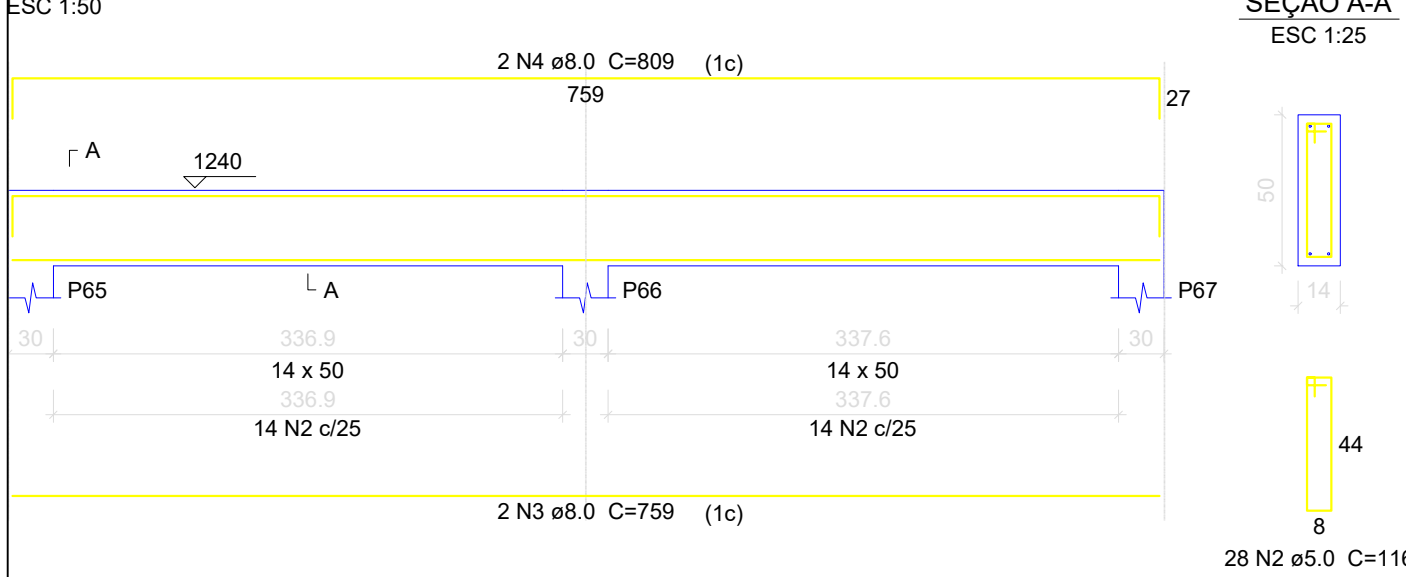


VRT500

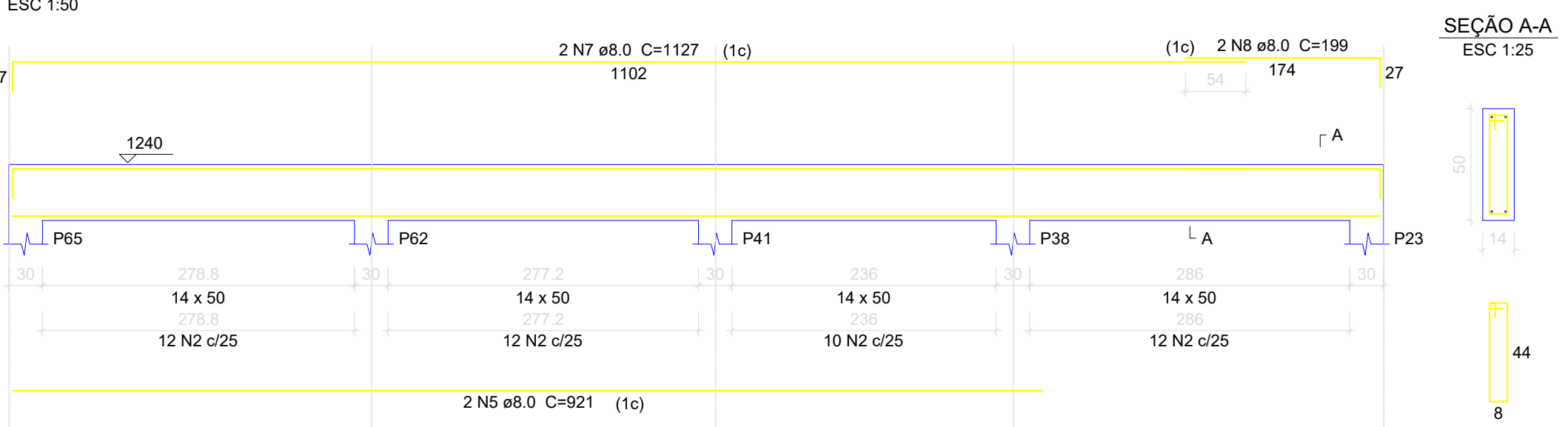


Relação do aço					
CONSOLE1 CONSOLE4 VRT500 VRT503	CONSOLE2 CONSOLE5 VRT501	CONSOLE3 CONSOLE6 VRT502			
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	18	148	2684
	2	5.0	149	116	17284
CA50	3	8.0	4	759	3036
	4	8.0	4	809	3236
	5	8.0	2	921	1842
	6	8.0	2	355	710
	7	8.0	2	1127	2254
	8	8.0	2	199	398
	9	10.0	2	623	1246
	10	10.0	2	589	1178
	11	10.0	1	375	375
	12	10.0	2	1123	2246
	13	10.0	2	198	396
	14	12.5	12	54	648
	15	12.5	12	130	1560

VRT501



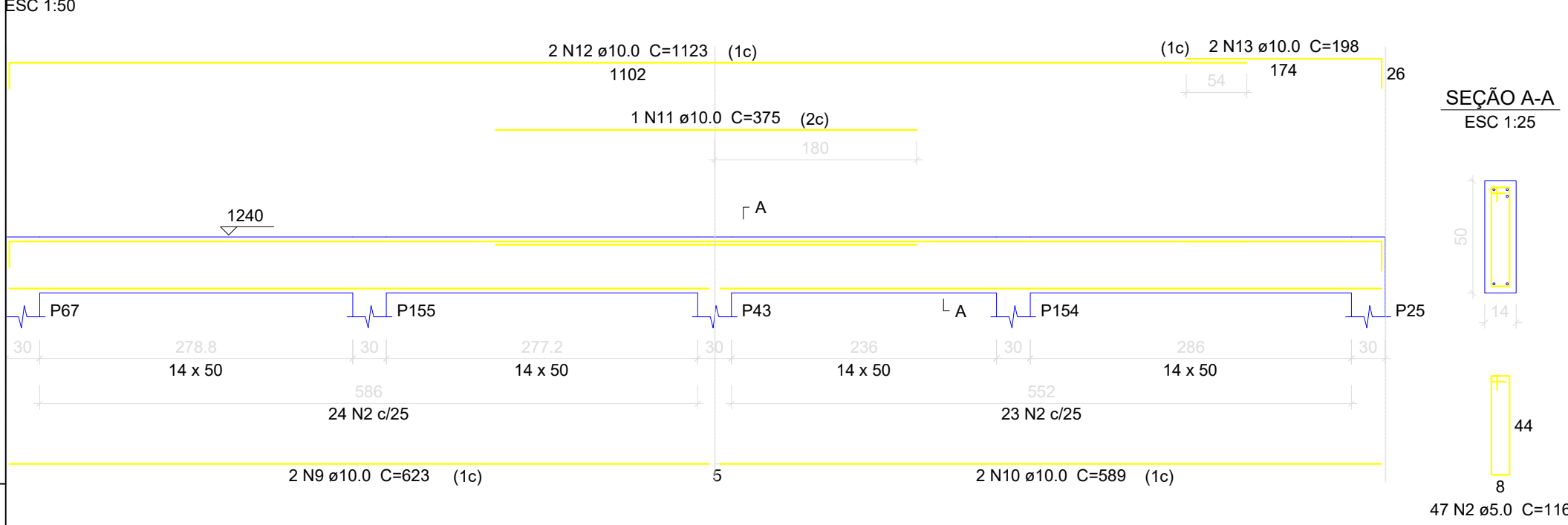
VRT502



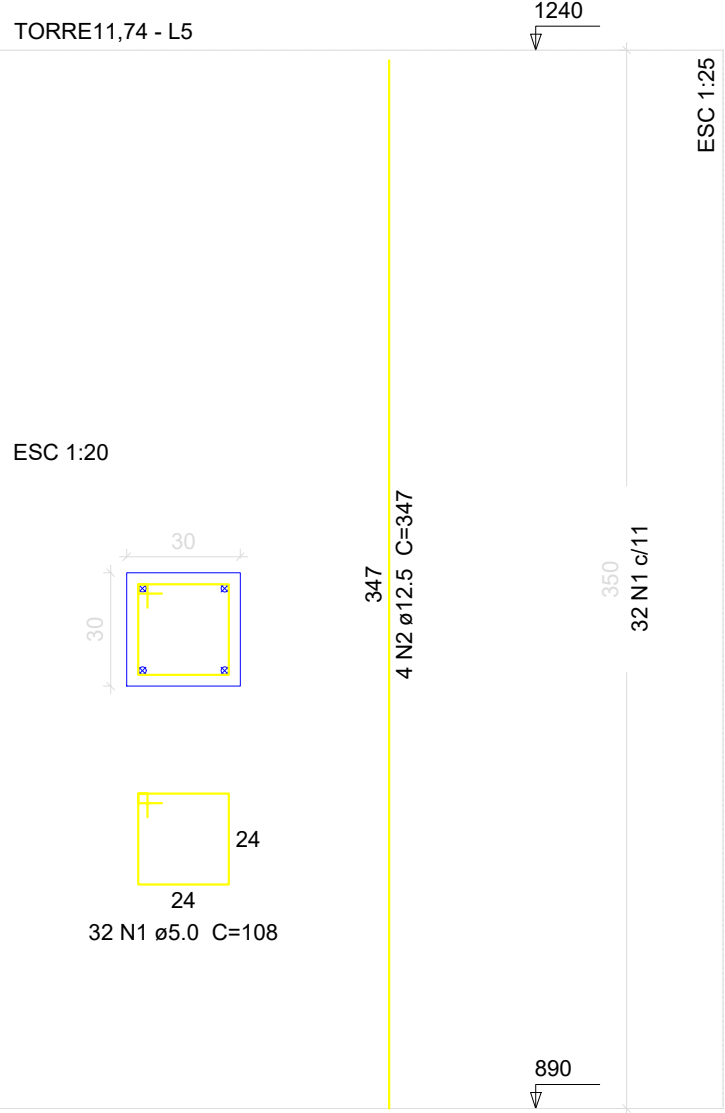
Resumo do aço			
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	114.8	49.8
	10.0	54.5	36.9
	12.5	22.1	23.4
CA60	5.0	199.5	33.8
PESO TOTAL			
CA50		110.1	
CA60		33.8	

Vol. de concreto total (C-30) = 3.33 m³
Área de forma total = 50.11 m²

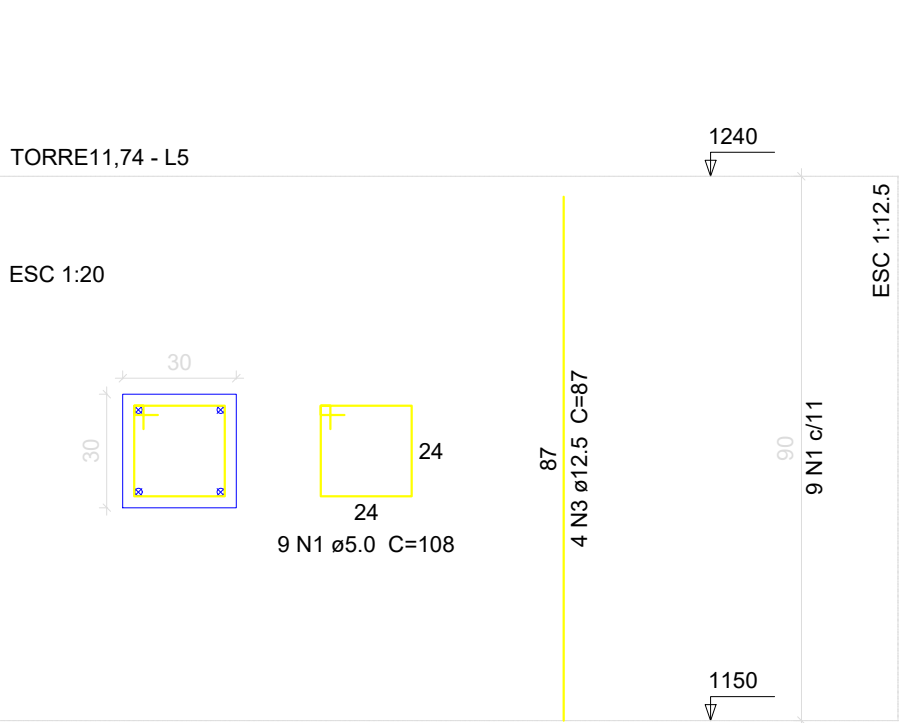
VRT503



P23=P24=P25=P65=P66=P67



P38=P41=P43=P62=P154=P155



Relação do aço

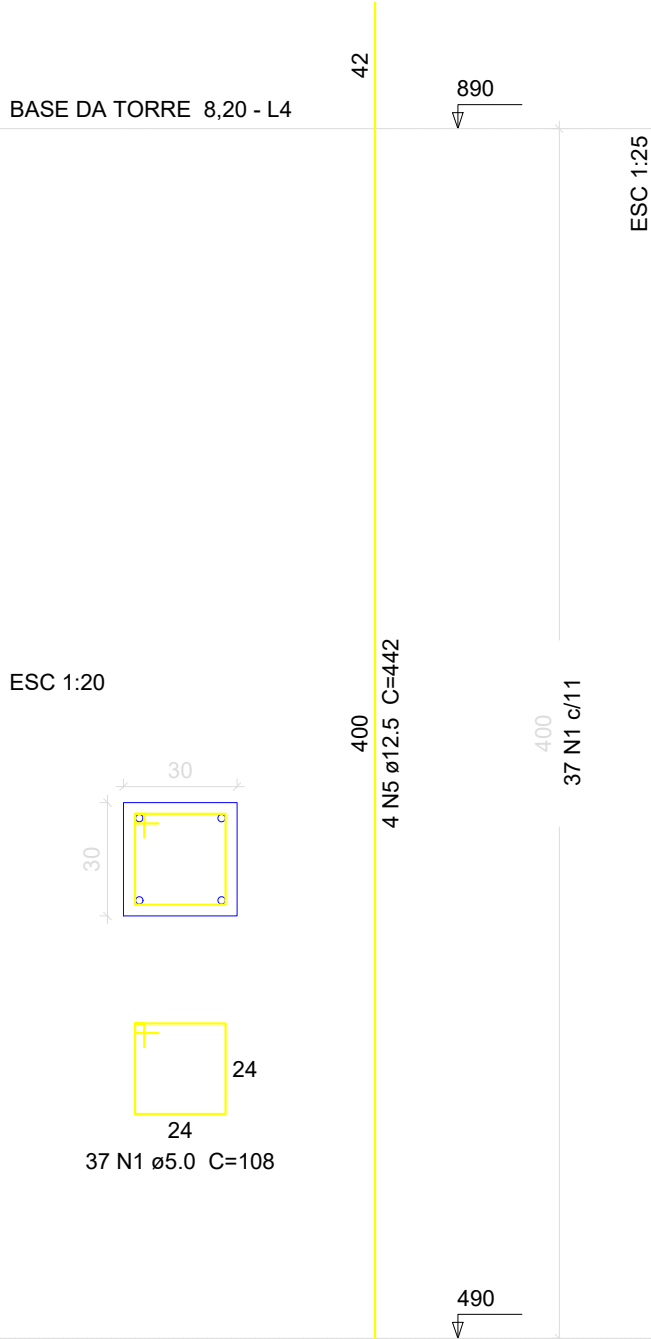
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	246	108	26568
CA50	2	12.5	24	347	8328
	3	12.5	24	87	2088

Resumo do aço

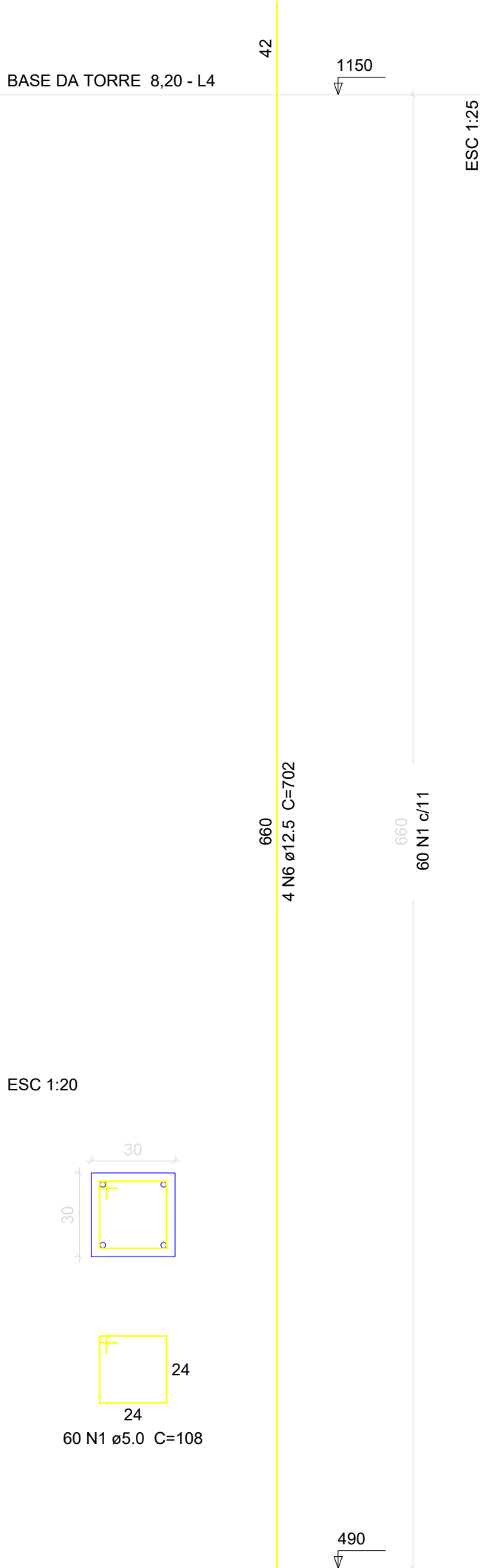
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	12.5	104.2	110.4
CA60	5.0	265.7	45
PESO TOTAL			
CA50		110.4	
CA60		45	

Vol. de concreto total (C-30) = 2.38 m³
Área de forma total = 31.68 m²

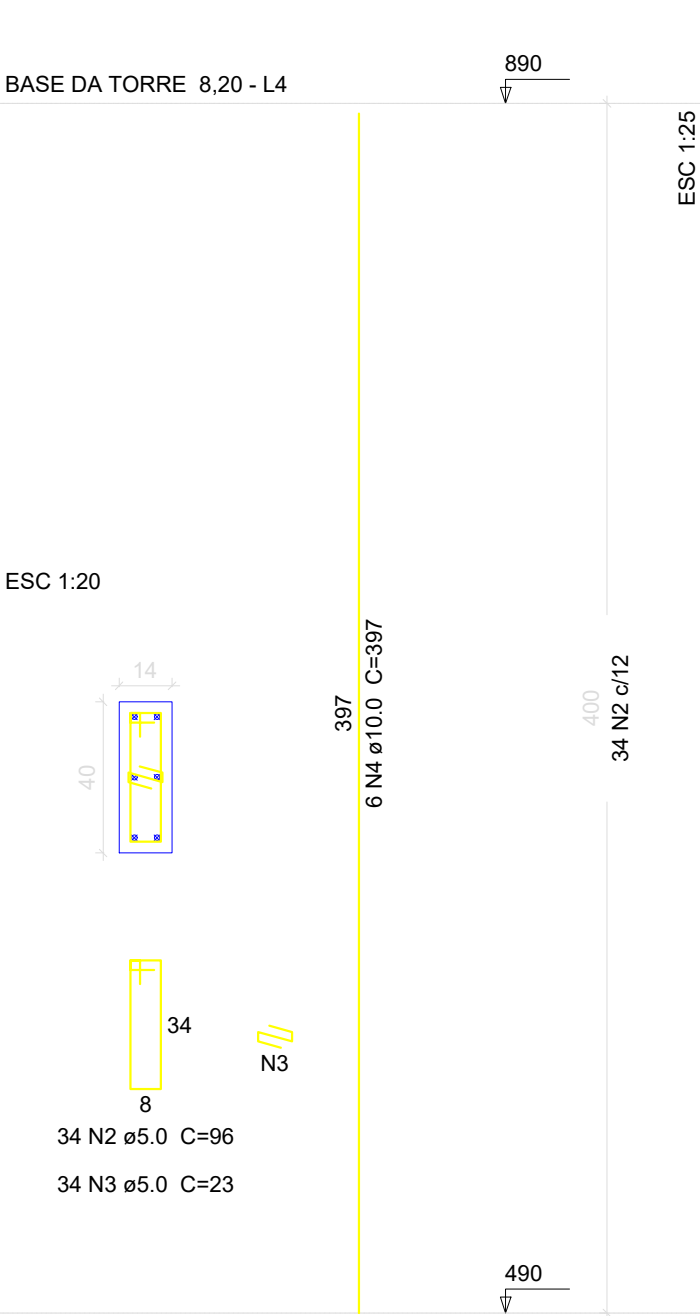
P23=P24=P25=P65=P66=P67



P38=P41=P43=P62=P154=P155



P39=P42=P63



ARQUITETURA E ENGENHARIA

> PROJETOS INDUSTRIAIS / COMERCIAIS / RESIDENCIAIS E
PÚBLICAS
> ASSESSORIA / CONSULTORIA
> GESTÃO DE OBRAS
> PERÍCIAS
> EXECUÇÃO DE OBRAS

AV. BRASIL, 1225 - SALA 03
UNIVERSITÁRIO
CEP 88200-017 - LAGES/SC
TEL.: (51) 3502.0044
CNPJ 20.270.410/0001-69

65

RESP. TÊC.:

James André Clauberg
Eng. Civil - CREA 45.160-6

RESP. TÊC.:

Indiamara de Oliveira Ribeiro
Eng. Civil - CREA 13.4548-3

CLIENTE:

Prefeitura Municipal de Rio Rufino

OBRA:

PROJETO ESTRUTURAL
ESCOLA MUNICIPAL DE RIO RUFINO

PLANTA DAS VIGAS DO RESERVATÓRIO
DA TORRE

PLANTA DOS CONSÓLE
PLANTA DOS PILARES DA BASE DA TORRE

DESENHO :

ESCALA:

DATA:

OUT/2022