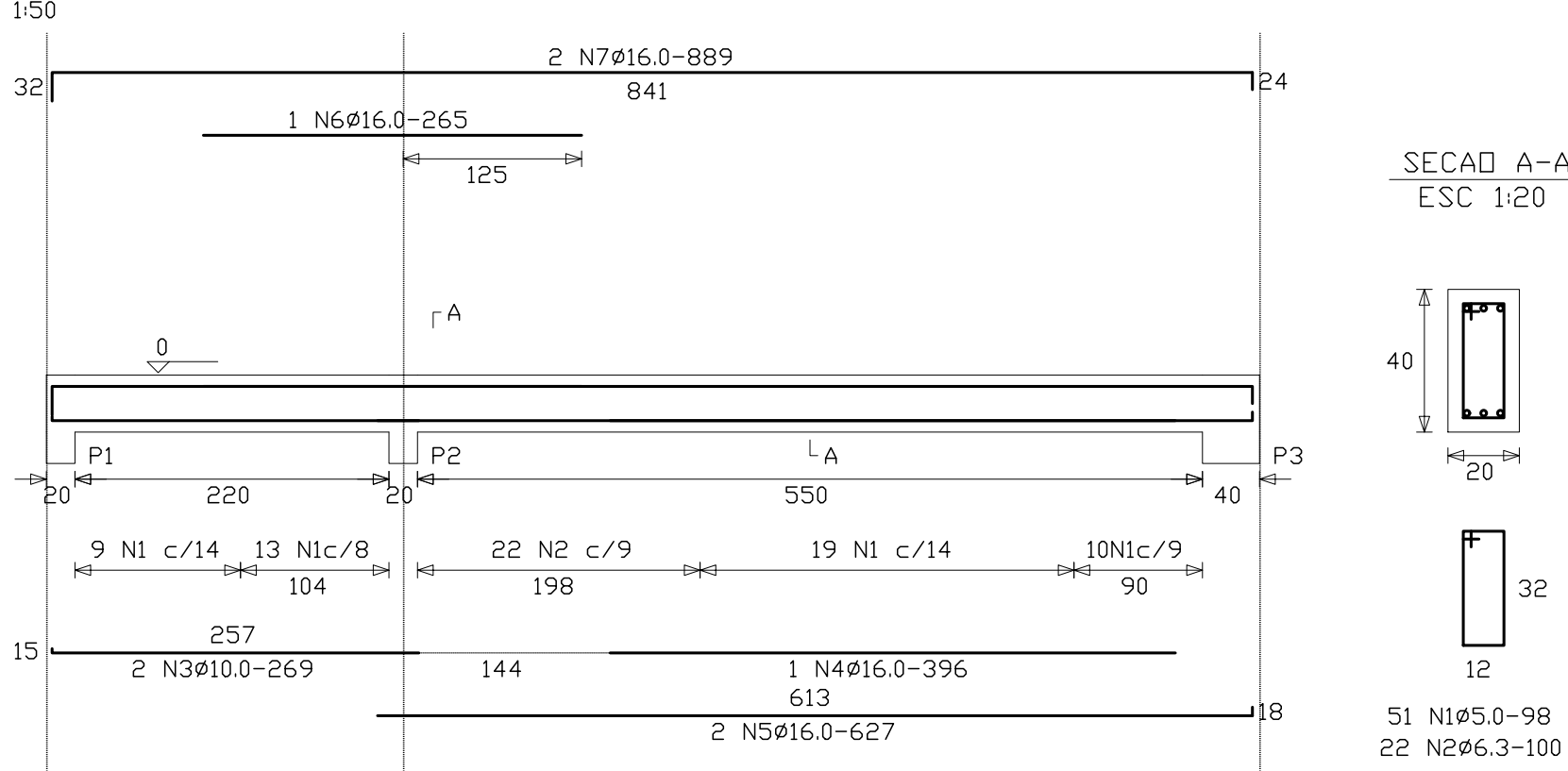
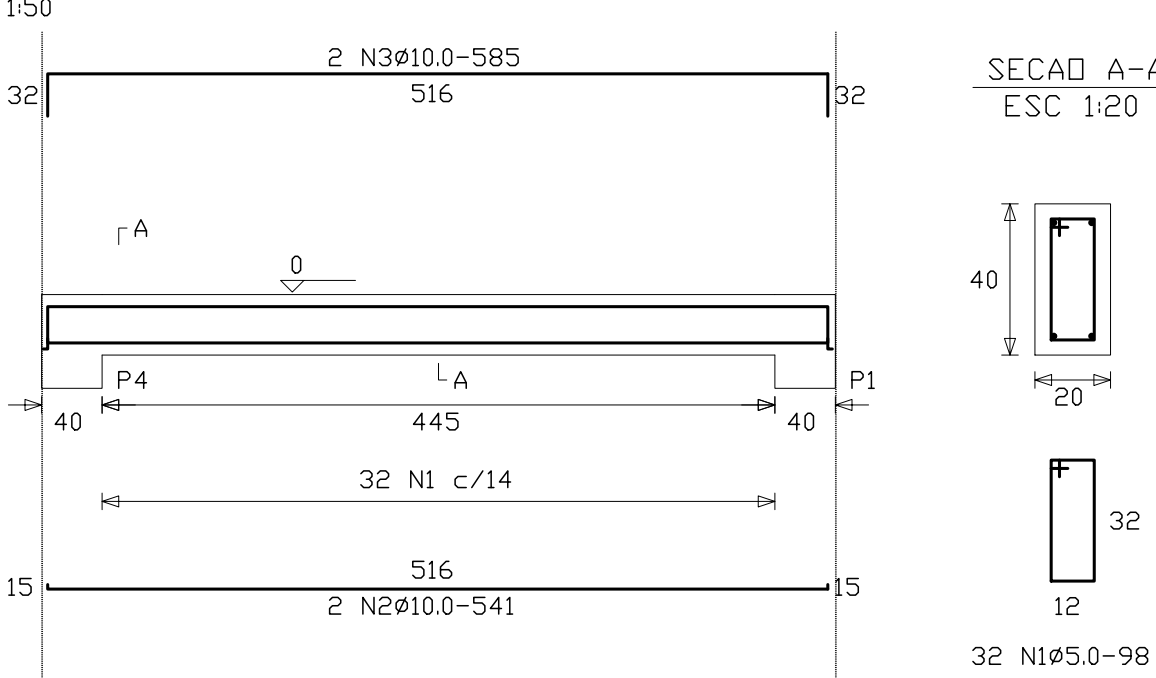


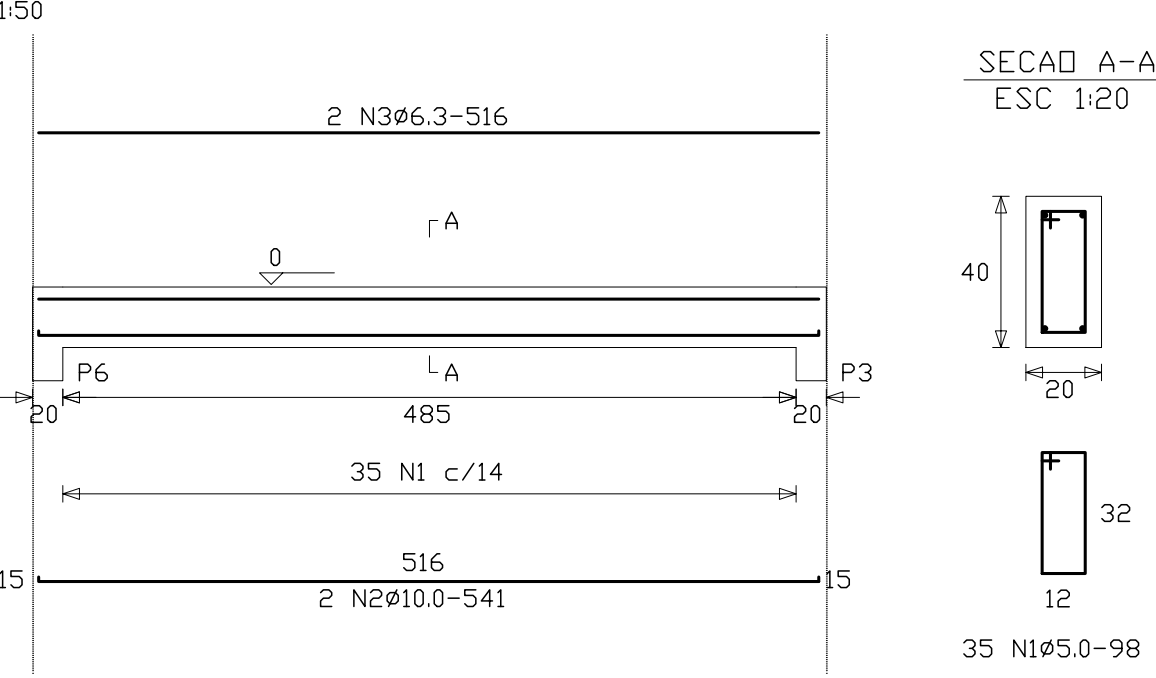
VC1=VC2



VC3



VC4

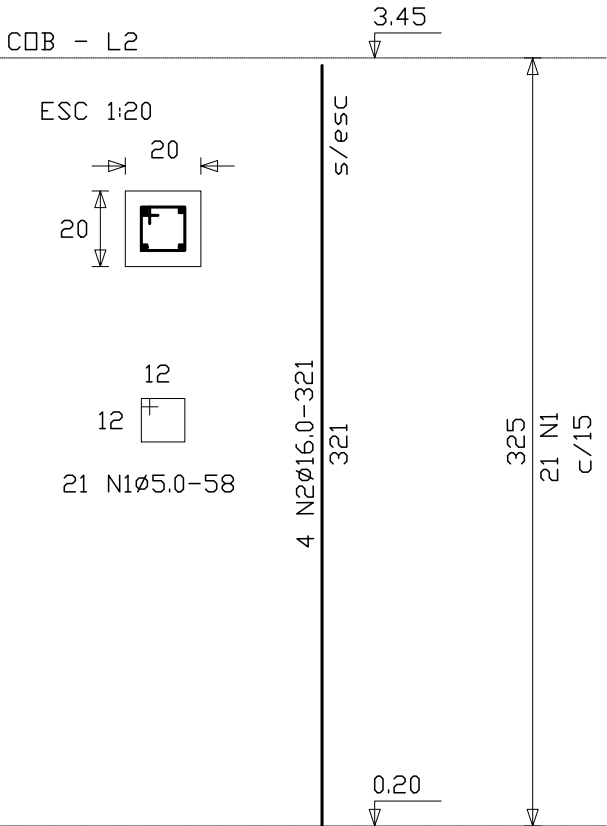


RELACAD DO ACD						
VIGA	ACD	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
VC1 x 2	60	1	5.0	102	98	9996
	50A	2	6.3	44	100	4400
	50A	3	10.0	4	269	1076
	50A	4	16.0	2	396	792
	50A	5	16.0	2	627	2508
VC3	50A	7	16.0	4	265	530
	50A	6	16.0	2	889	3556
	60	1	5.0	32	98	3136
	50A	3	10.0	2	541	1082
	50A	3	10.0	2	585	1170
VC4	60	1	5.0	35	98	3430
	50A	3	10.0	2	541	1082
	50A	3	6.3	2	516	1032

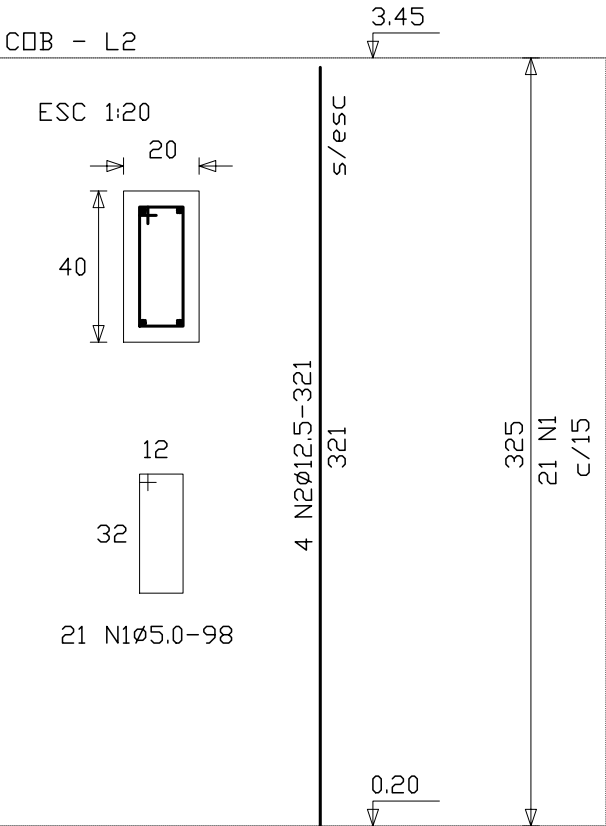
RESUMO DO ACD			
ACD	DIAM.	C. TOTAL (m)	PESO (kgf)
CA60	5.0	165.6	26
CASOA	6.3	54.3	14
CASOA	10.0	44.1	28
CASOA	16.0	73.8	117
PESO TOTAL			
CA60		26 kgf	
CASOA		159 kgf	

Vol. concreto total = 2.20 m3
Area de forma total = 27.50 m2
fck = 30.00 MPa

P2=P5



P1=P3=P4=P6

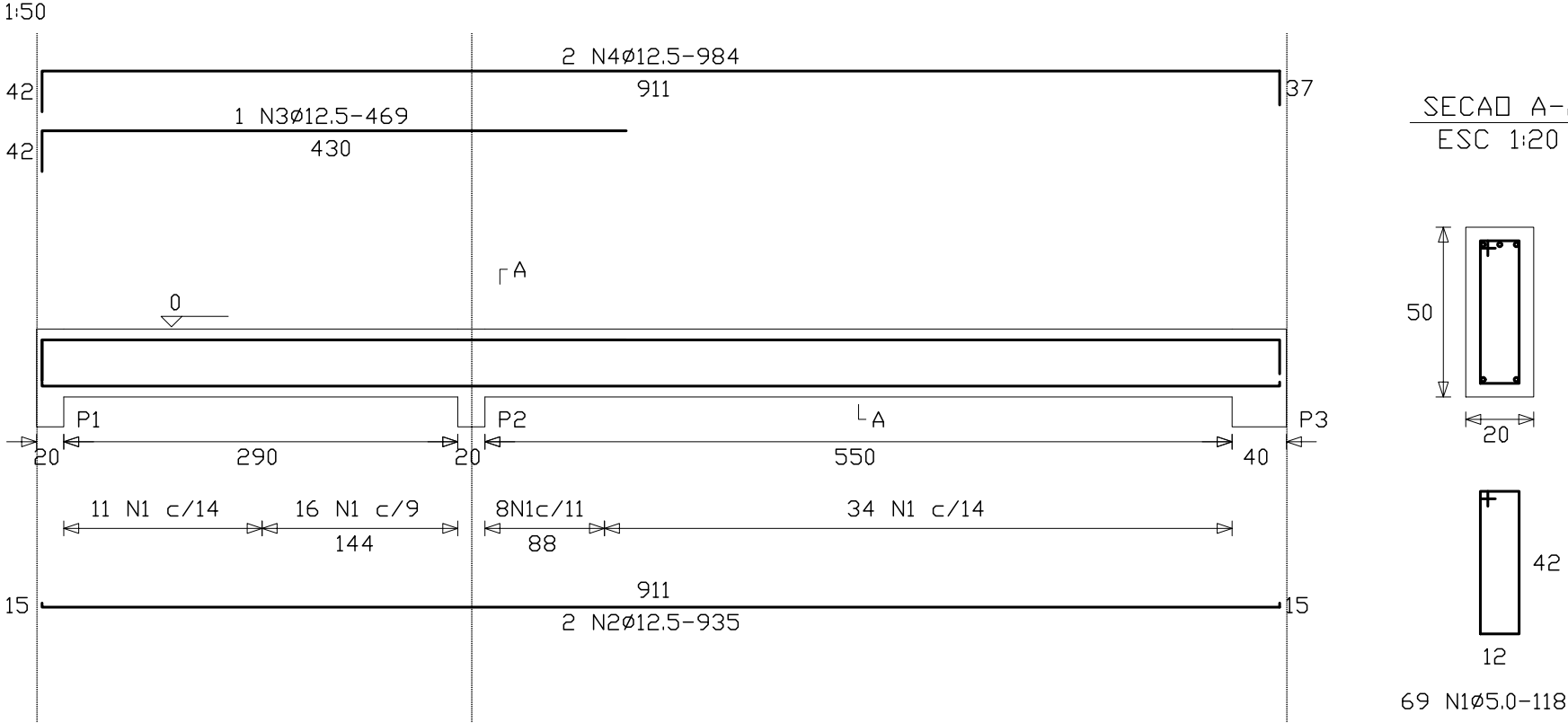


RELACAD DO ACD						
PILAR	ACD	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
2xP2-L2	60	1	5.0	42	58	2436
	50A	2	16.0	8	321	2568
4xP1-L2	60	1	5.0	84	98	8232
	50A	2	12.5	16	321	5136

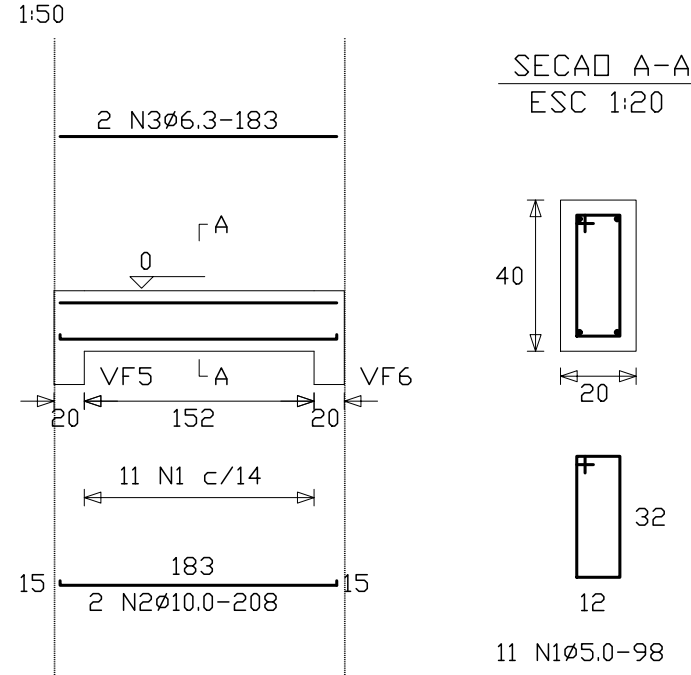
RESUMO DO ACD			
ACD	DIAM.	C. TOTAL (m)	PESO (kgf)
CA60	5.0	106.6	17
CASOA	12.5	51.4	52
CASOA	16.0	25.7	40
PESO TOTAL			
CA60		17 kgf	
CASOA		92 kgf	

Vol. concreto total = 1.30 m3
Area de forma total = 20.80 m2
fck = 30.00 MPa

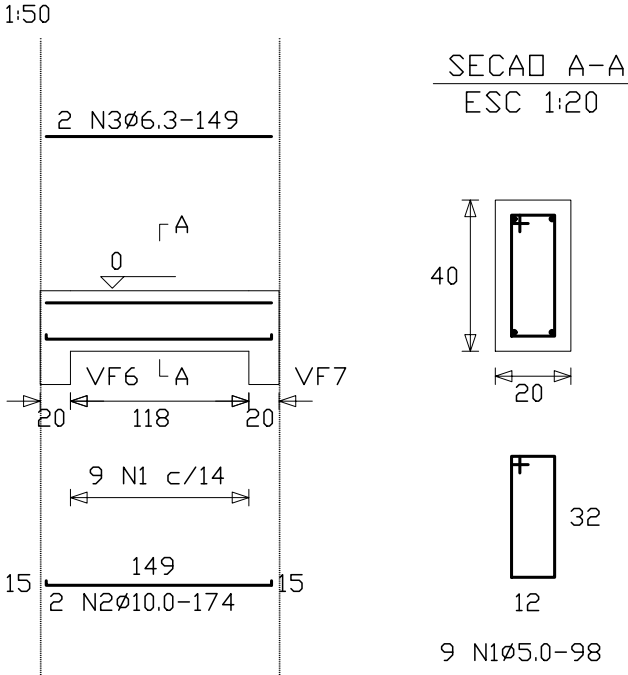
VF1=VF4



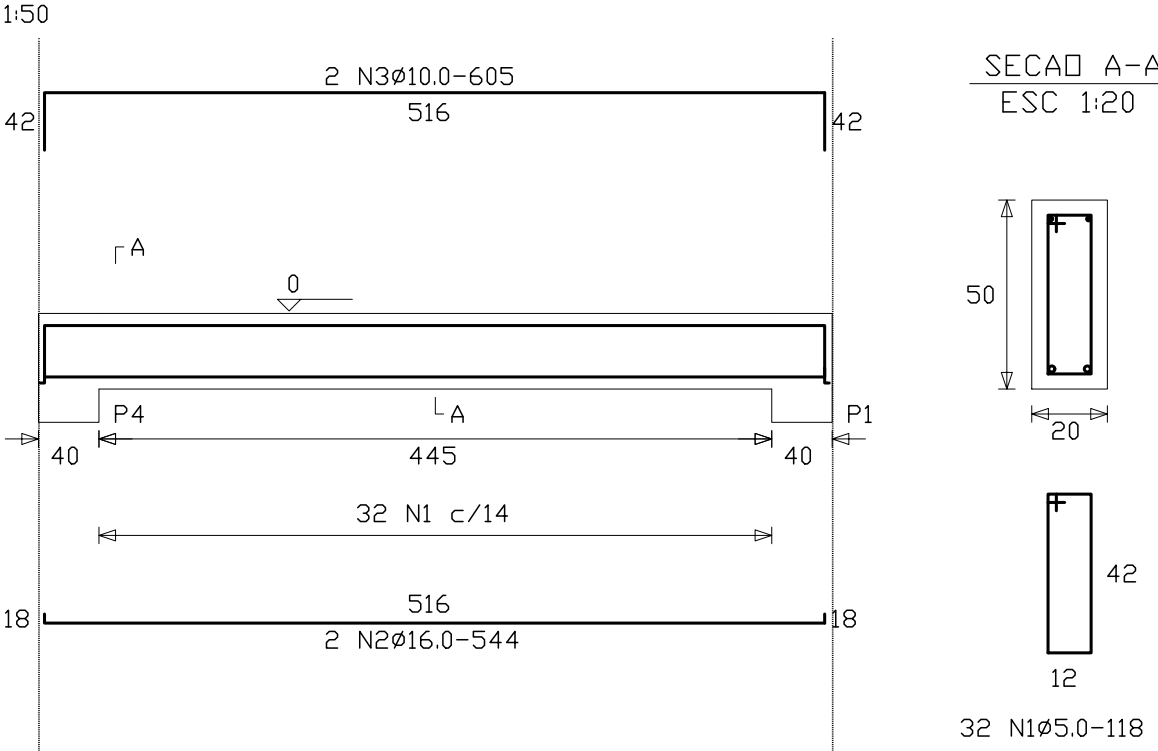
VF2



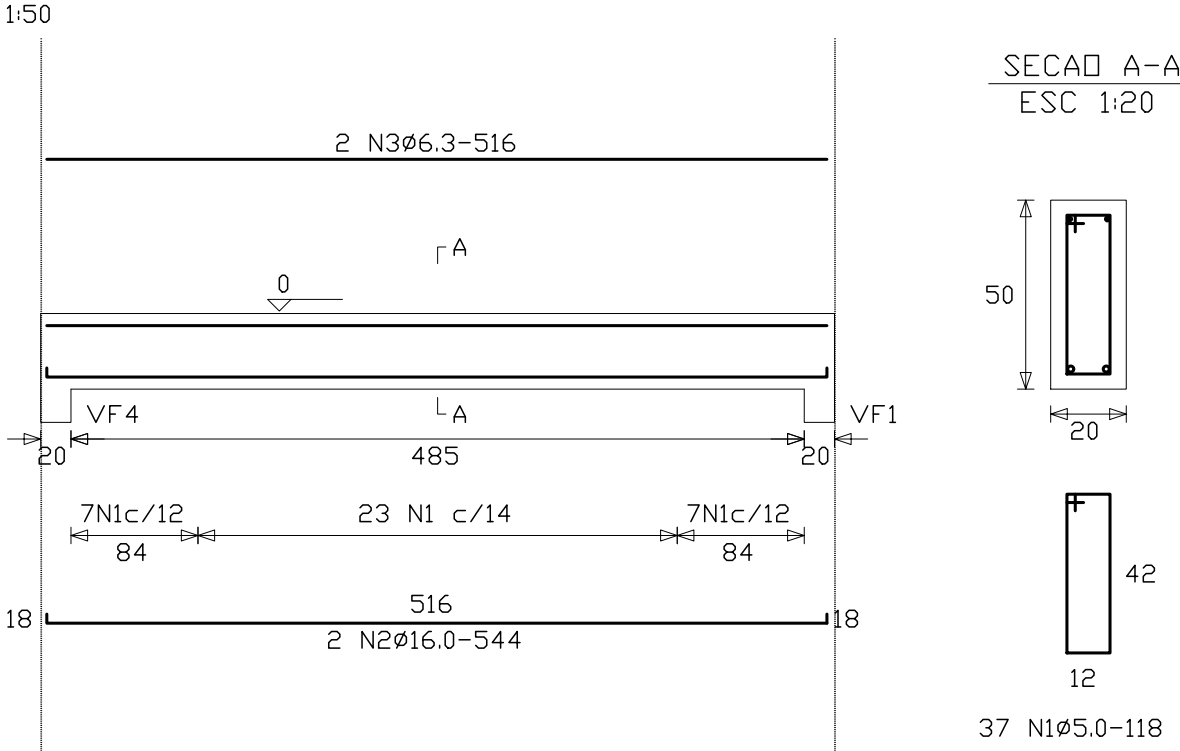
VF3



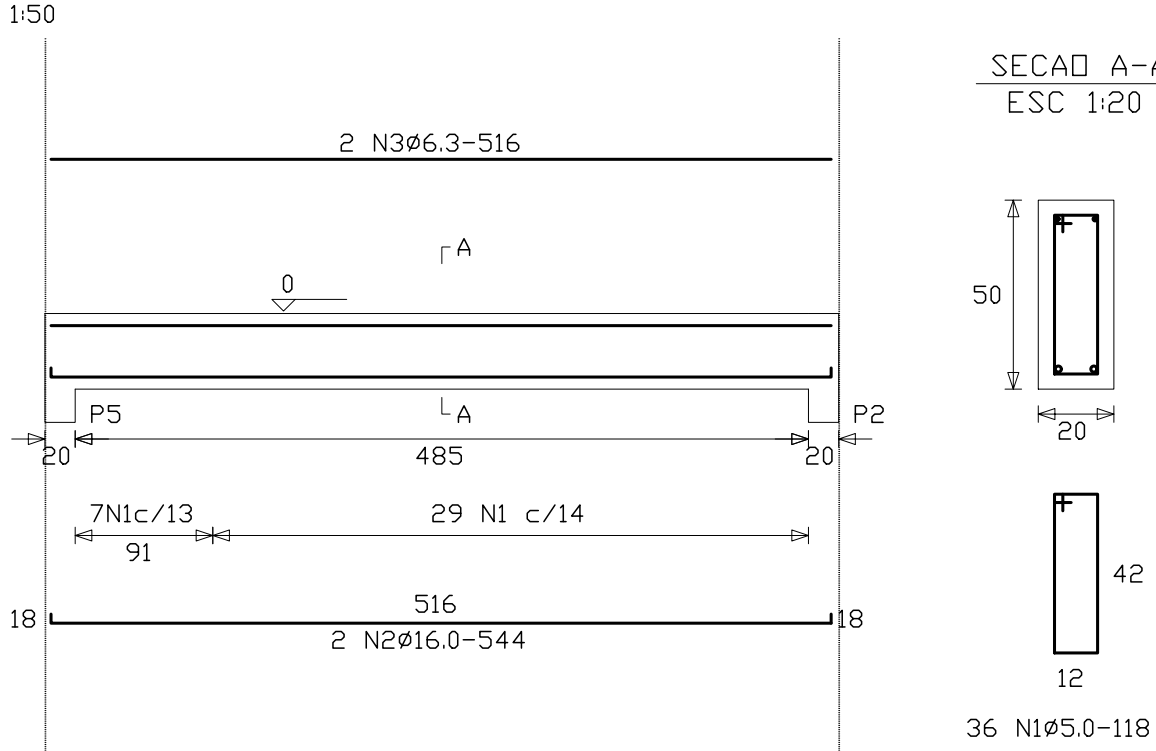
VF5



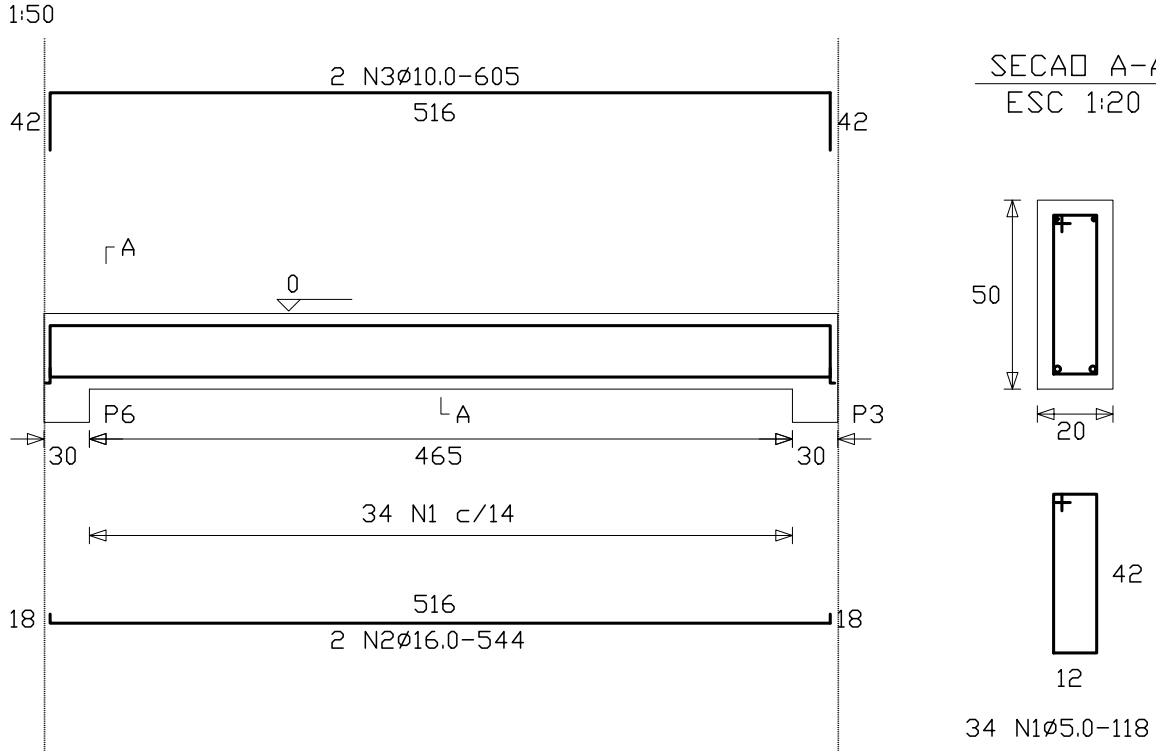
VF6



VF7



VF8

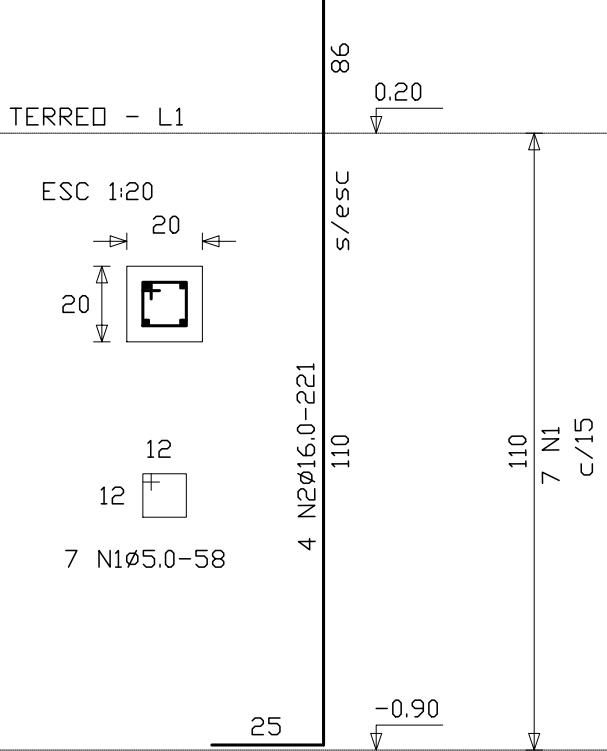


RELACAD DO ACD						
VIGA	ACD	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
VF1 x 2	60	1	5.0	138	118	16284
	50A	4	12.5	4	935	3740
	50A	4	12.5	4	469	938
VF2	60	1	5.0	11	984	3936
	50A	1	5.0	11	98	1078
	50A	1	10.0	208	416	
VF3	60	1	6.3	183	366	
	50A	1	6.3	98	882	
	50A	1	10.0	174	348	
VF5	60	1	6.3	149	298	
	50A	1	6.3	32	118	3776
	50A	1	16.0	544	1088	
VF6	60	1	5.0	605	1210	
	50A	1	5.0	37	118	4366
	50A	1	16.0	544	1088	
VF7	60	1	6.3	516	1032	
	50A	1	6.3	36	118	4248
	50A	1	16.0	544	1088	
VF8	60	1	6.3	516	1032	
	50A	1	6.3	34	118	4012
	50A	1	16.0	544	1088	
	50A	1	10.0	605	1210	

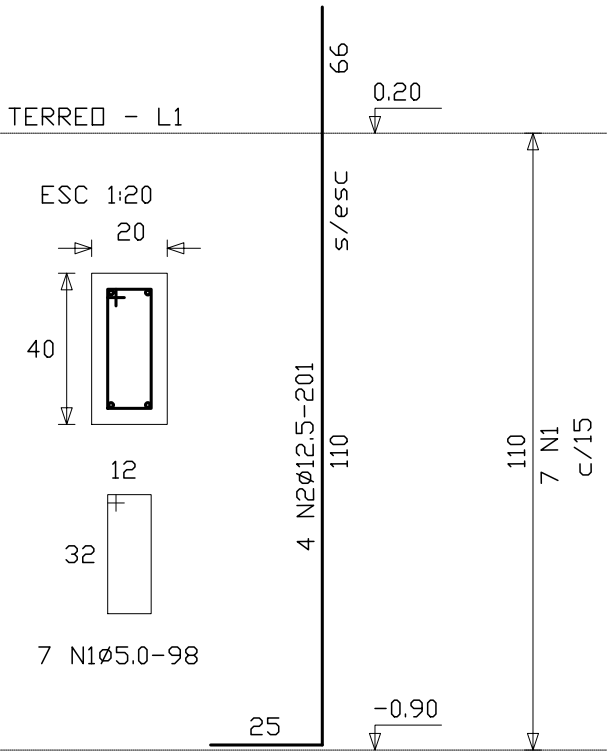
RESUMO DO ACD			
ACD	DIAM.	C. TOTAL (m)	PESO (kgf)
CA60	5.0	346.4	55
CASOA	12.5	86.1	85
CASOA	10.0	31.8	20
CASOA	6.3	27.2	7
CASOA	16.0	43.5	68
PESO TOTAL			
CA60		55 kgf	
CASOA		180 kgf	

Vol. concreto total = 4.22 m3
Area de forma total = 50.78 m2
fck = 30.00 MPa

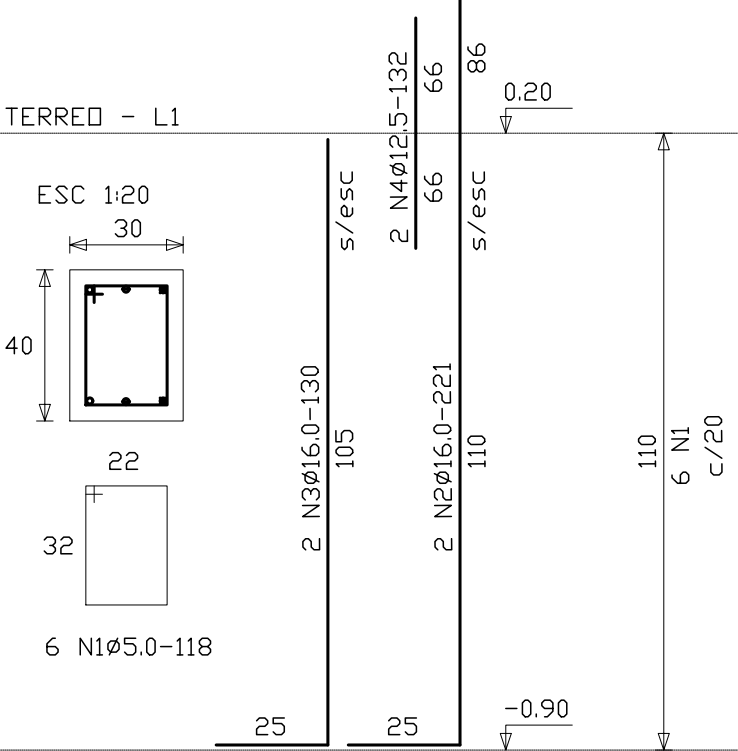
P2=P5



P1=P4



P3=P6



RELACAD DO ACD						
PILAR	ACD	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
2xP2-L1	60	1	5.0	14	58	812
	50A	2	16.0	8	221	1768
2xP1-L1	60	1	5.0	14	98	1372
	50A	2	16.0	8	201	1608
2xP3-L1	60	1	5.0	12	118	1416
	50A	2	16.0	4	221	884
	50A	4	12.5	4	132	528

RESUMO DO ACD			
ACD	DIAM.	C. TOTAL (m)	PESO (kgf)
CA60	5.0	36.0	6
CASOA	16.0	31.7	52
CASOA	16.0	31.7	50
PESO TOTAL			
CA60		6 kgf	
CASOA		72 kgf	

Vol. concreto total = 0.29 m3
Area de forma total = 3.40 m2
fck = 30.00 MPa

ECOLUX
Engenharia Elétrica

Rua Ladislau Neto
Nº 504 Porto Alegre-RS
ecolux@ecolux-rs.com.br

CLAUDIO C.	CLAUDIO C.	REVISÃO GERAL	01	MAR/2020
CLAUDIO C.	CLAUDIO C.	EMIÇÃO INICIAL	00	DEZ/2019
DESENHO	PROJETO	MODIFICAÇÃO	REVISÃO	DATA

DMAE/ENG*/ARG* RESP. EXECUÇÃO	ENG. CLAUDIO L. CREITCHMANN	CREA/RS	65760
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Prefeitura Municipal de Porto Alegre
DEPARTAMENTO MUNICIPAL DE ÁGUA E ESGOTOS

Diretoria de Gestão e Desenvolvimento			FICHA DO PROJETO/CÓDIGO DA OBRA	4600	DESENHO	RAFAEL S.
			INDICADA	NOV/2019	FRANCHA	05/07
			RESP.TECNICO-CARRETA CONTRATA	ENG. CLAUDIO L. CREITCHMANN		
			ENG./ARG. FISCAL DE PROJETO-DANE	ENGº ADRIANO ROQUE DE ARRUDA		
			REVISOR DE PROJETO E OBRA	ENGº MARCO FACCON		
			SERENÇA DE PLANEJAMENTO	ENGº AIRANA RAMALHO DO CANTO		
			CÓDIGO DO PROJETO/PROCESSO	SE69 900 OS 005		