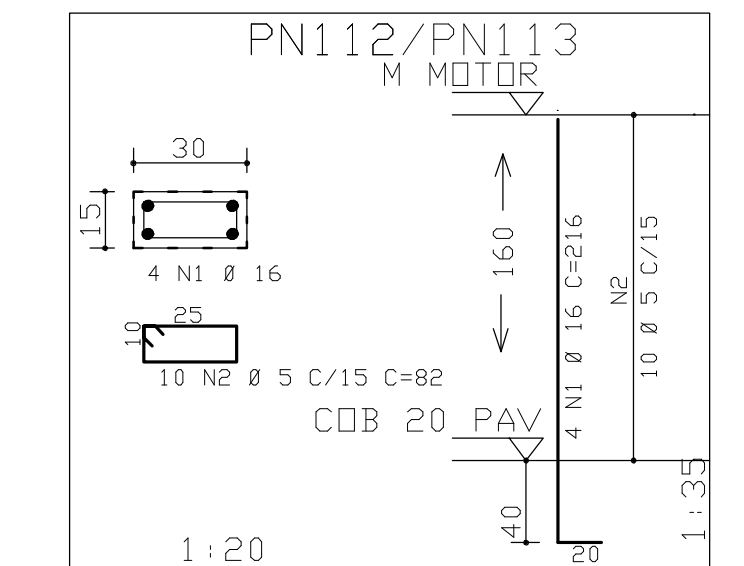
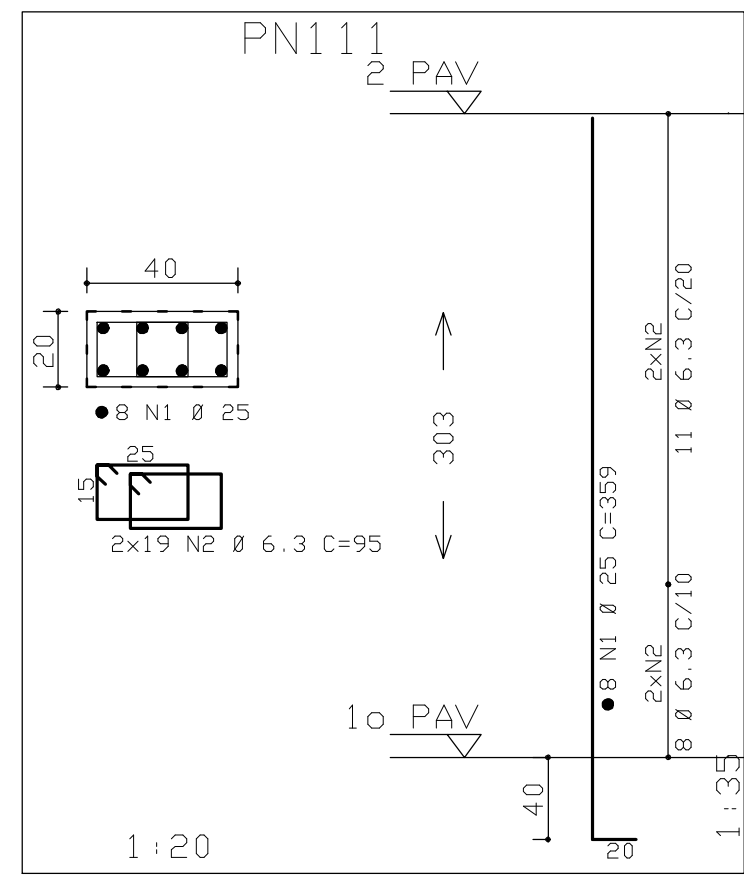
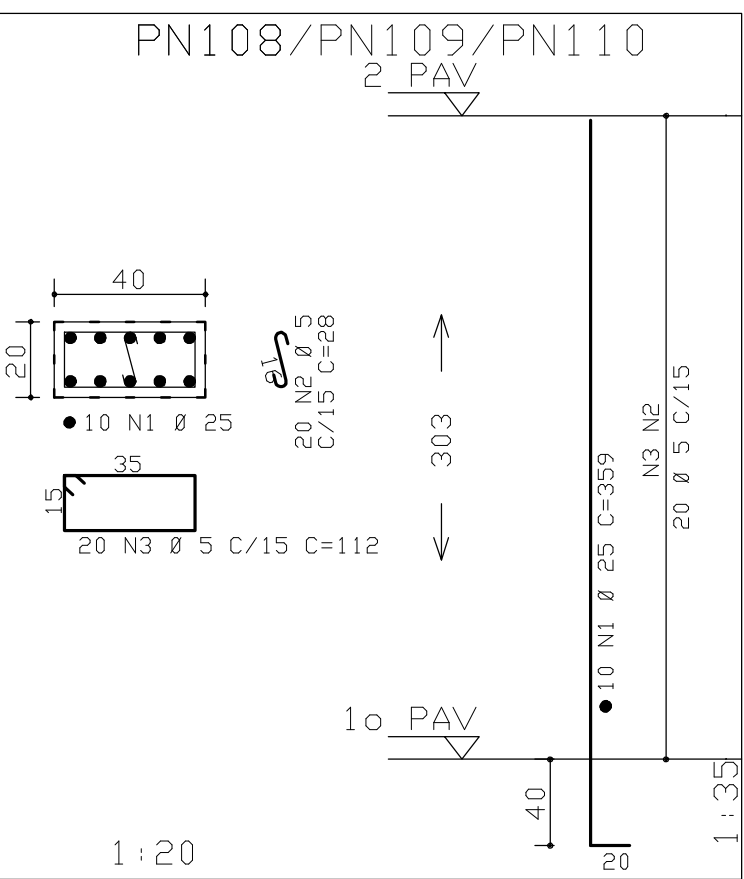
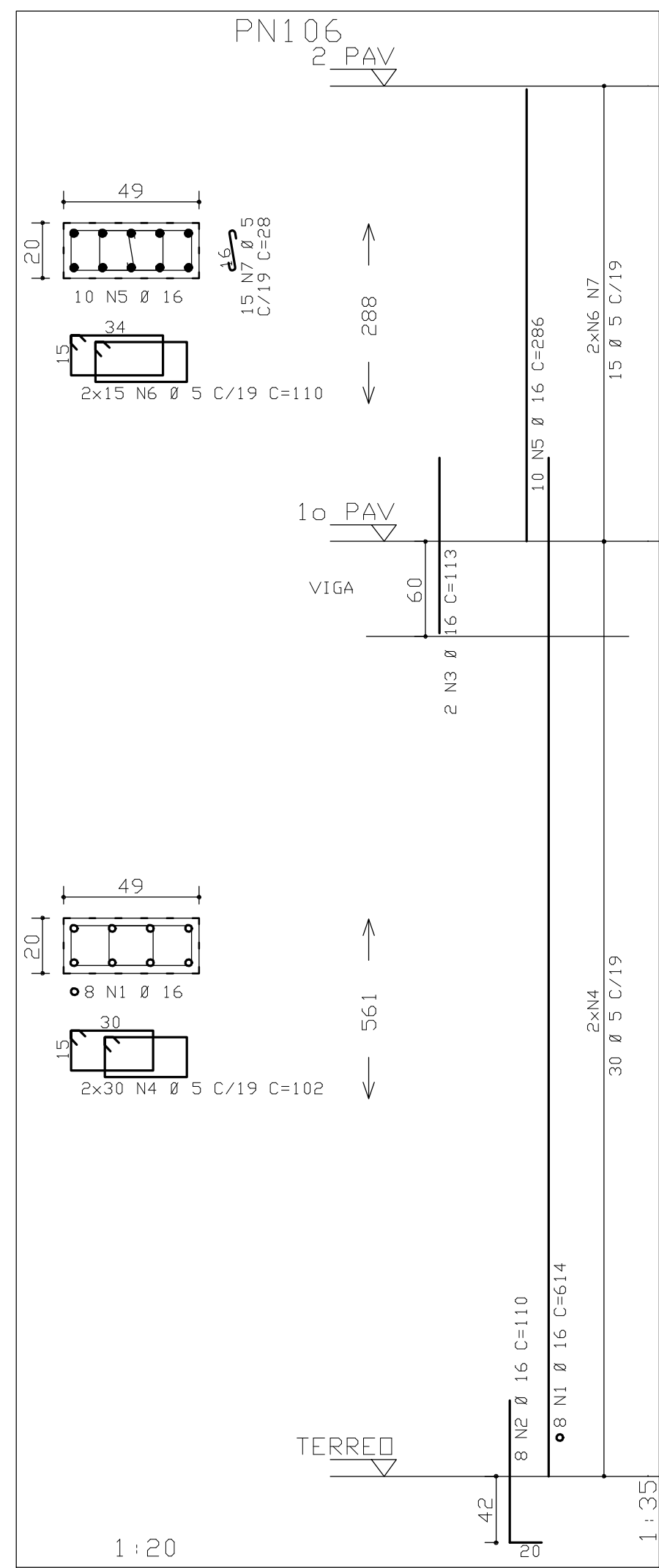
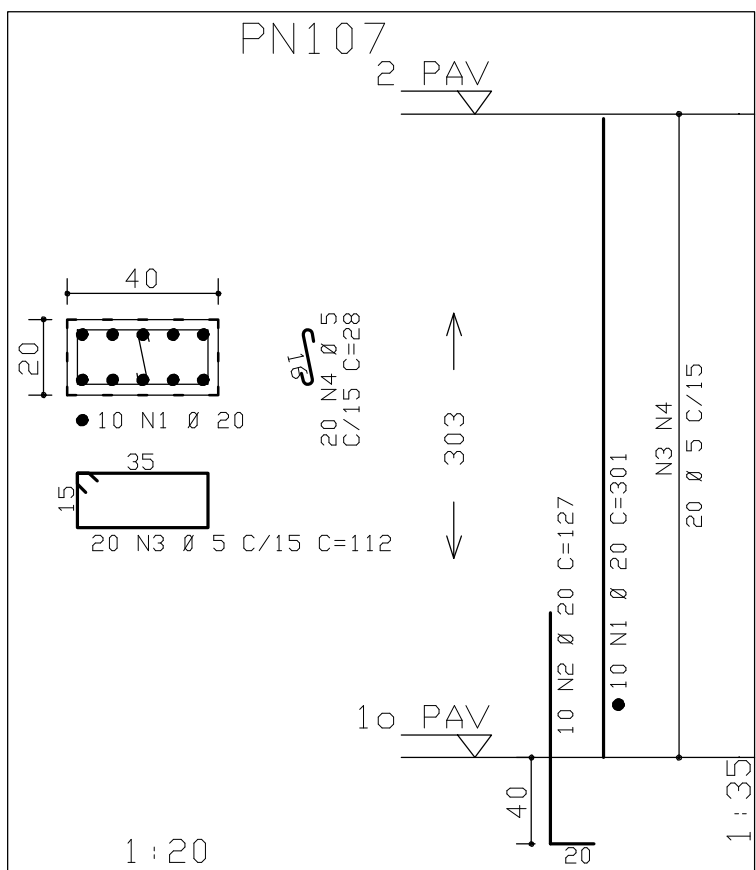
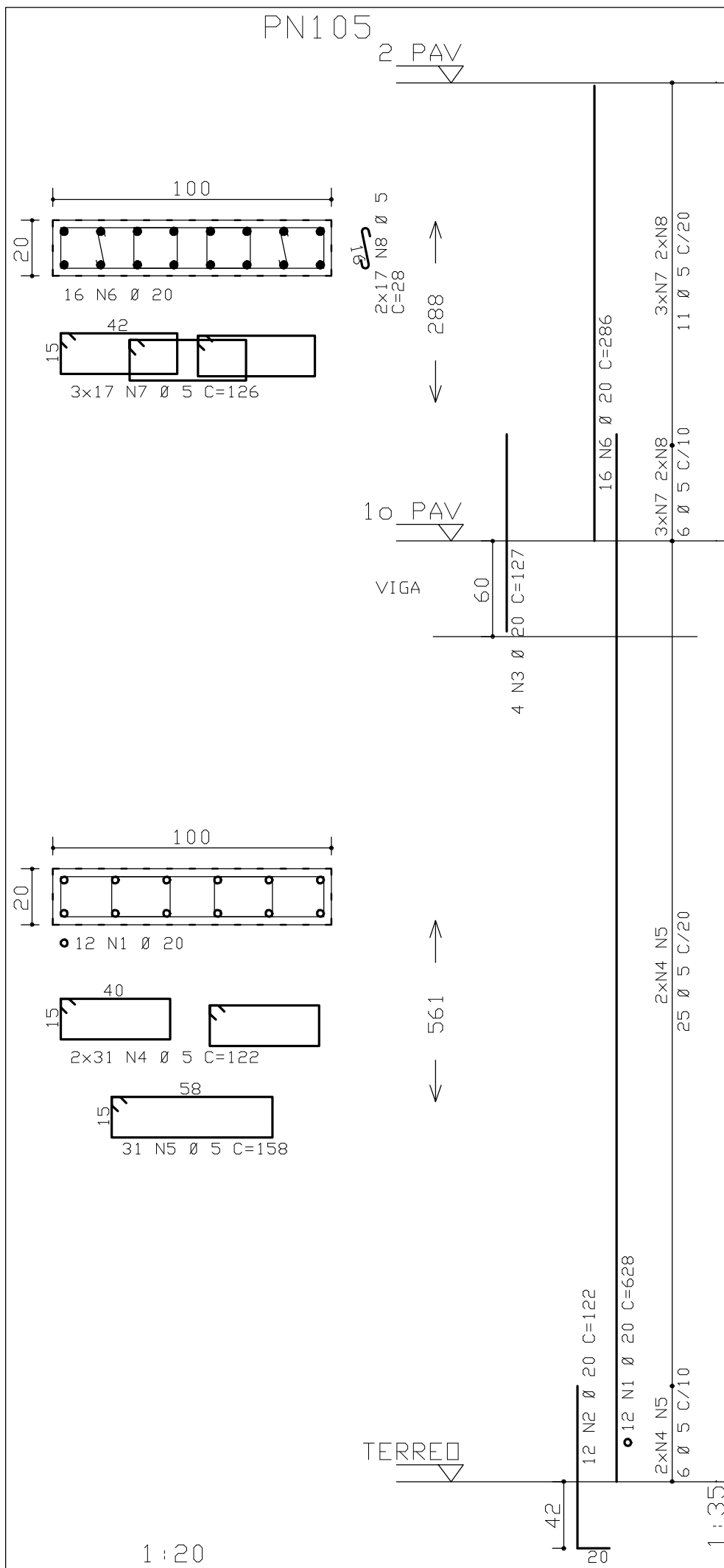
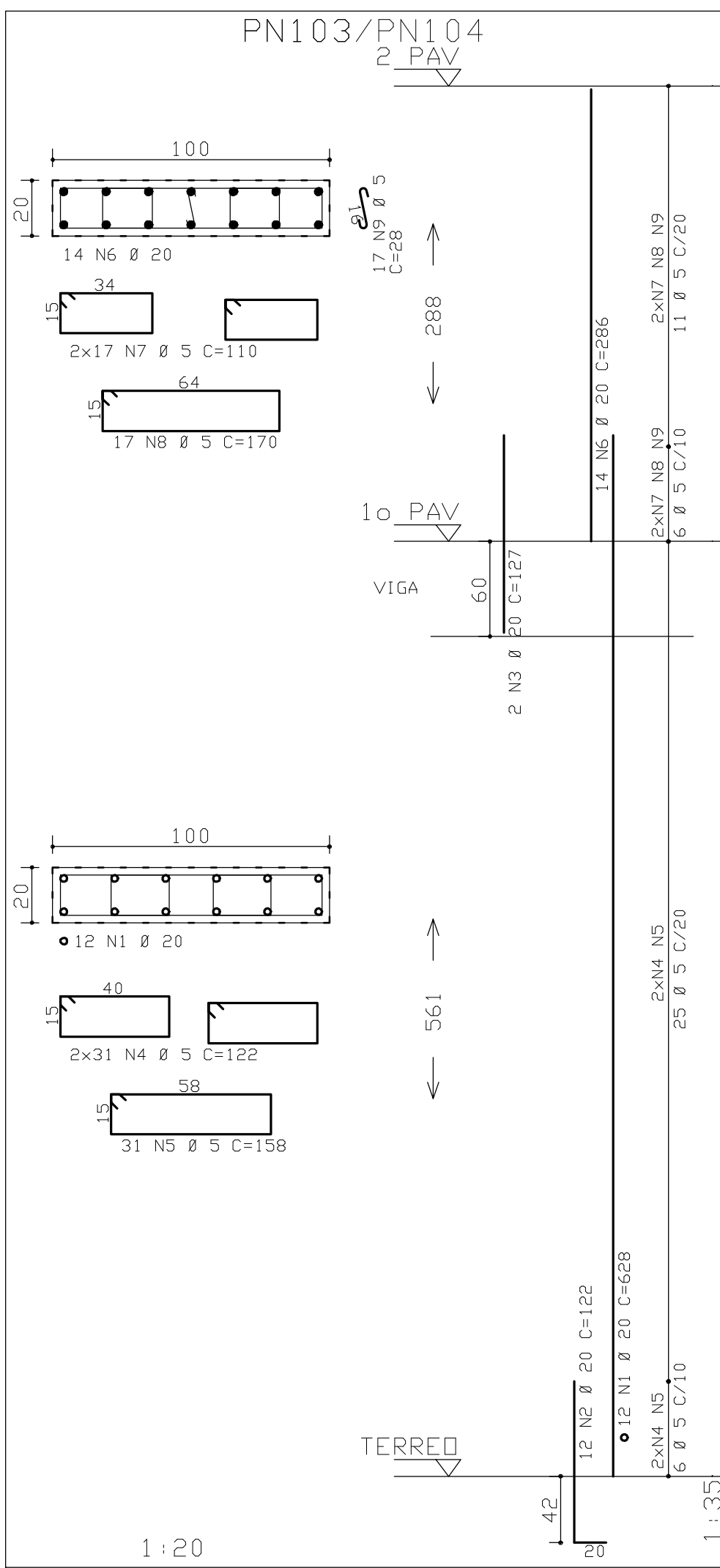
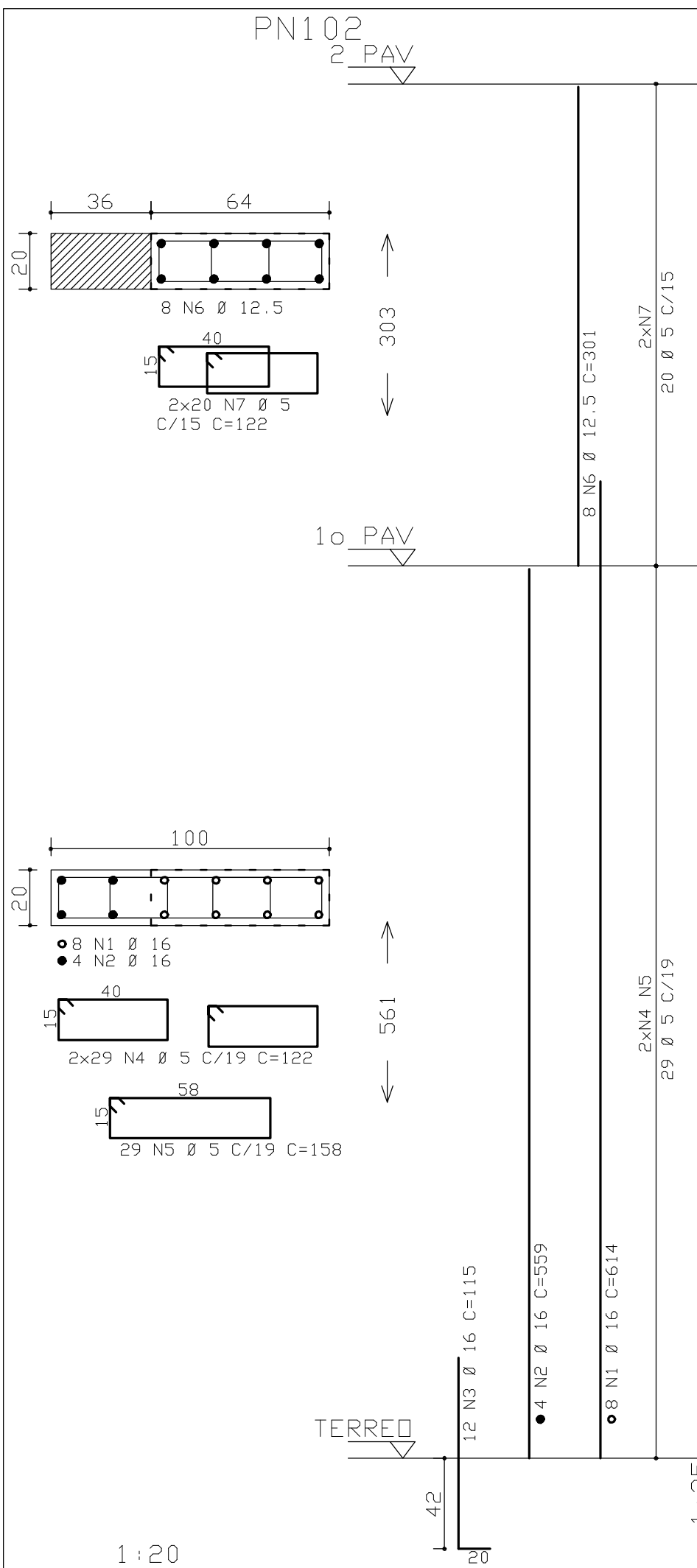
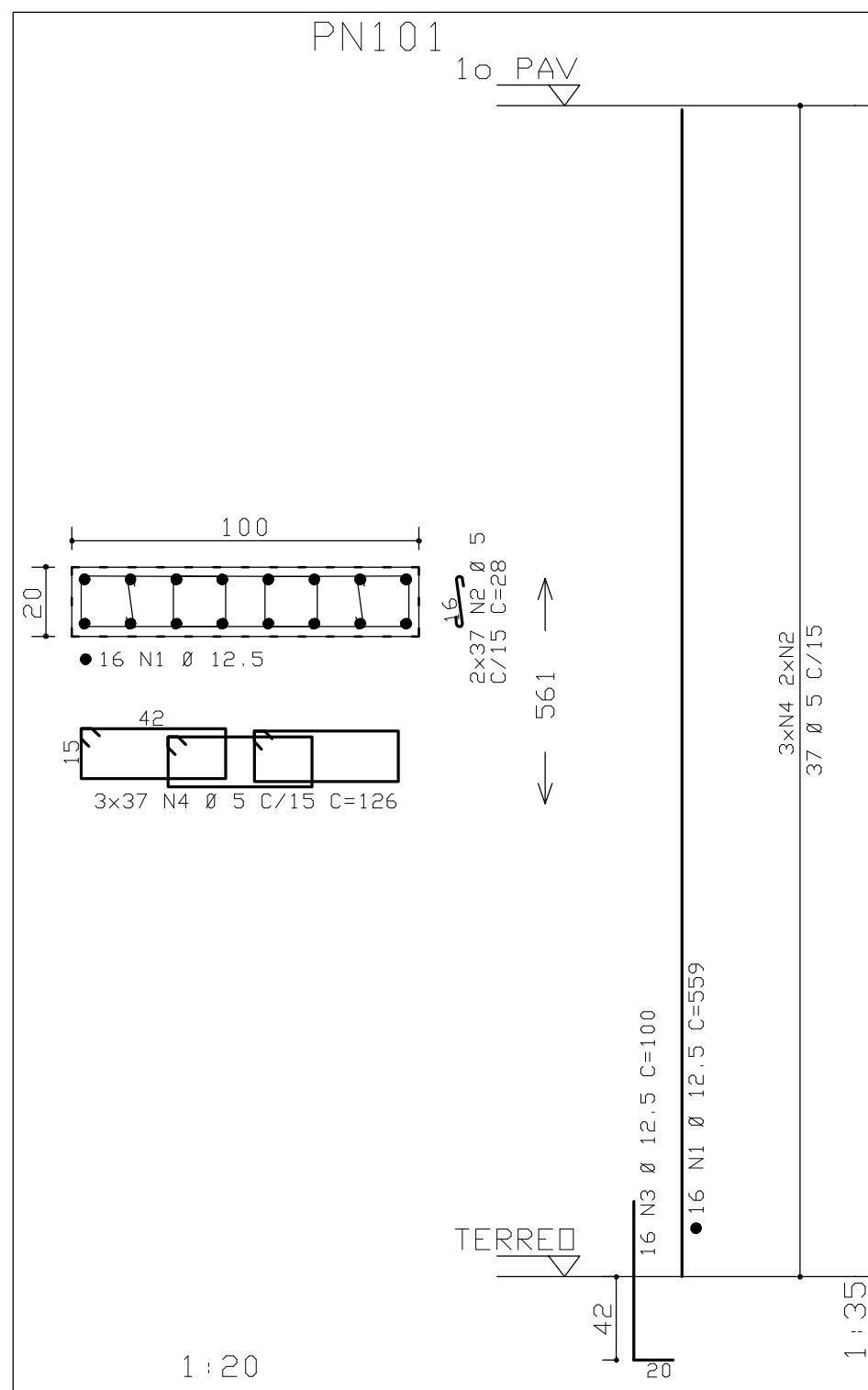
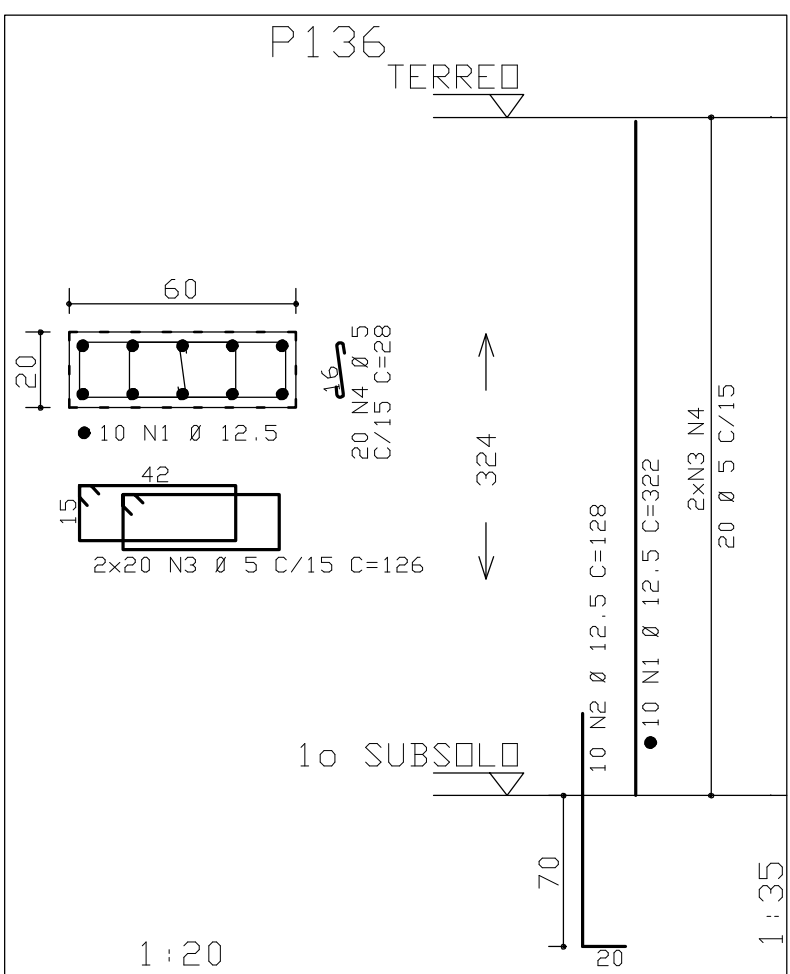
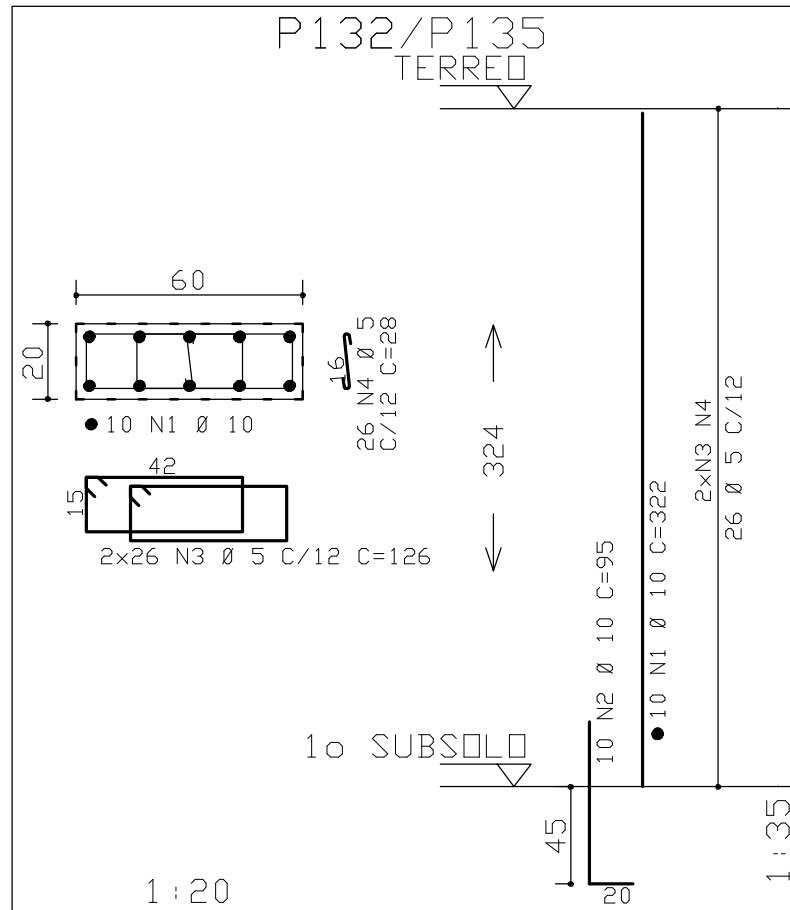
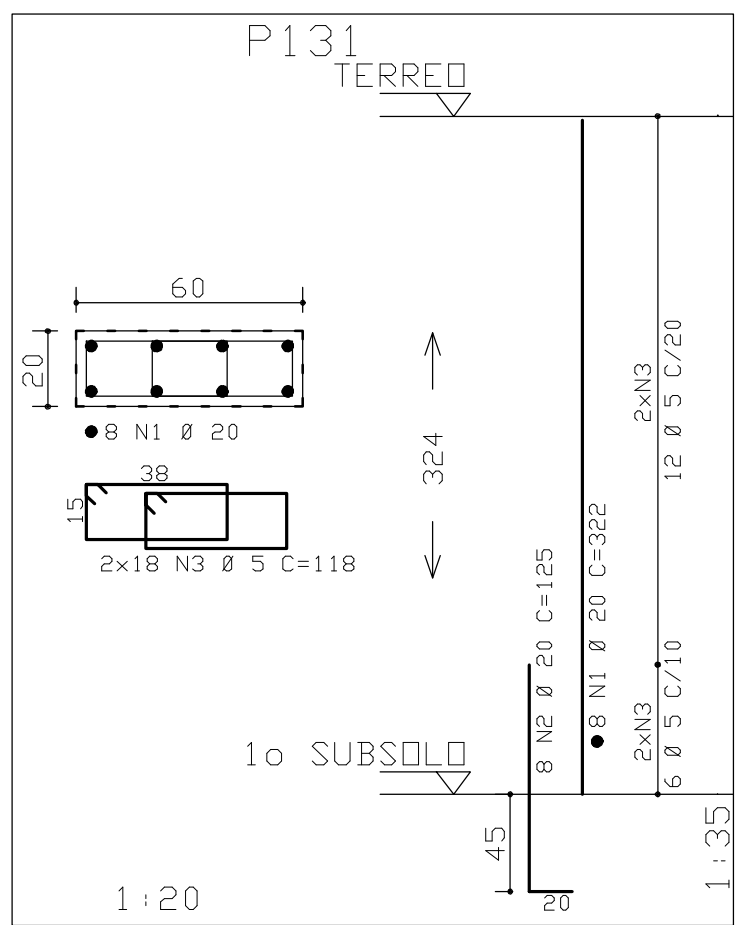
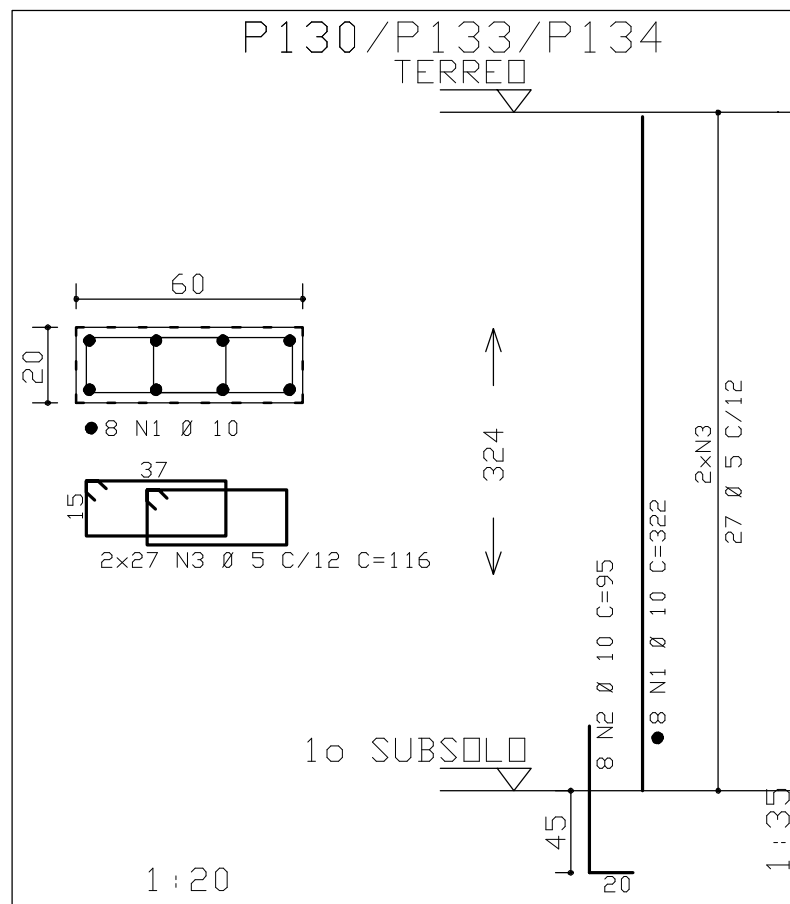
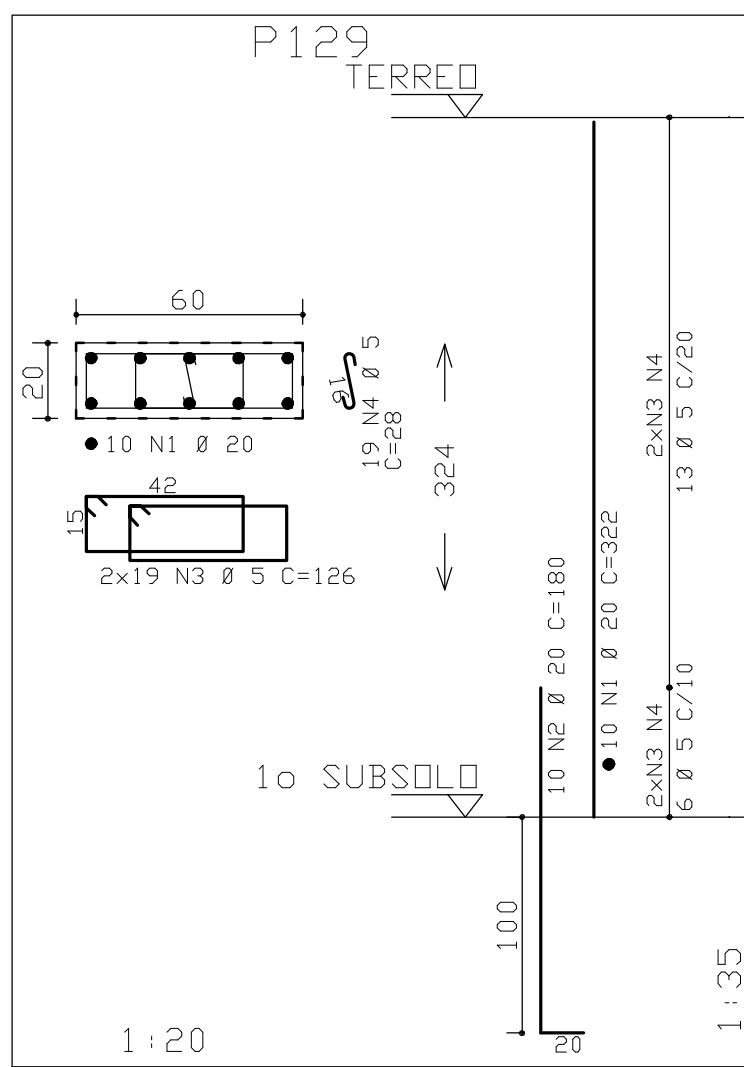
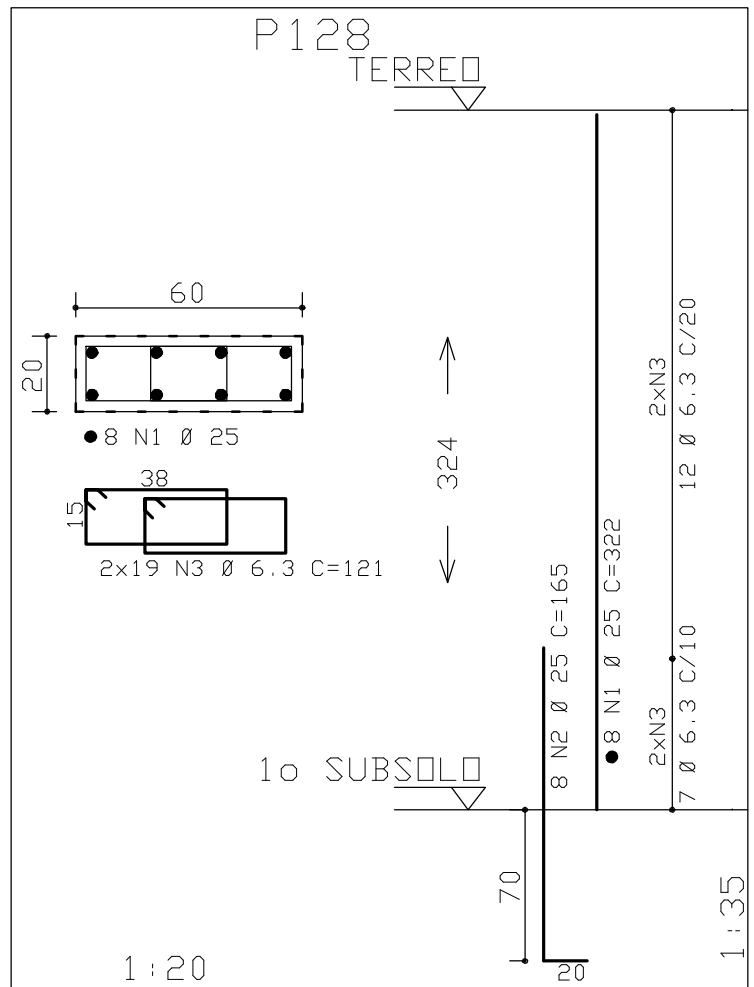
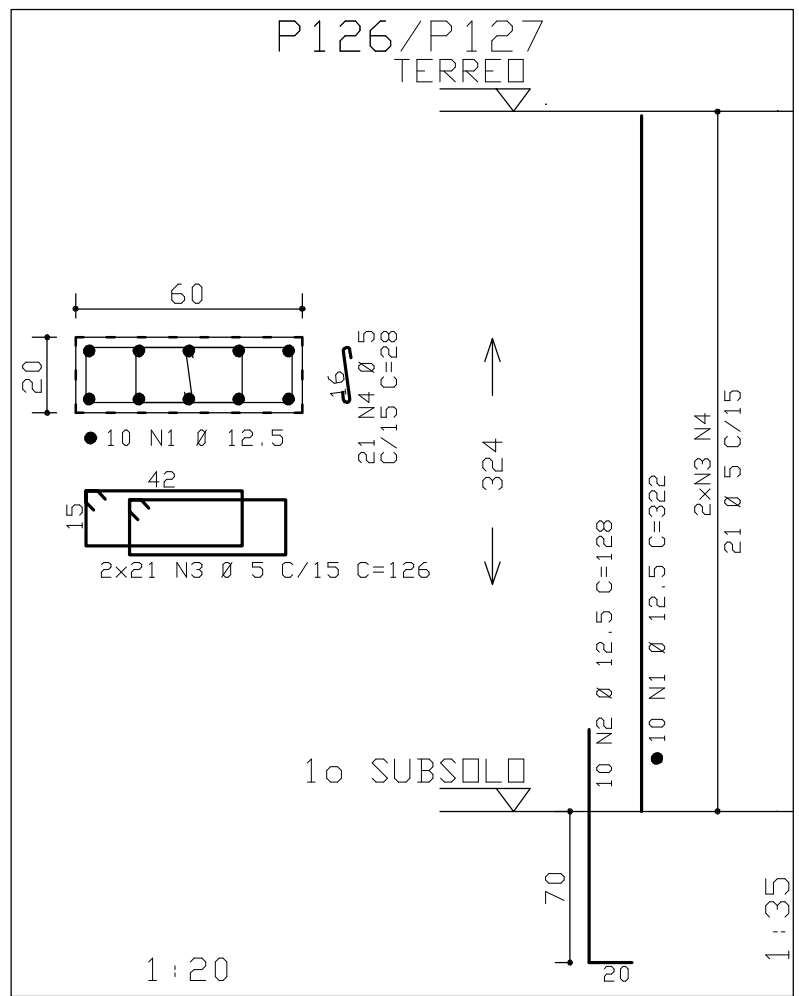
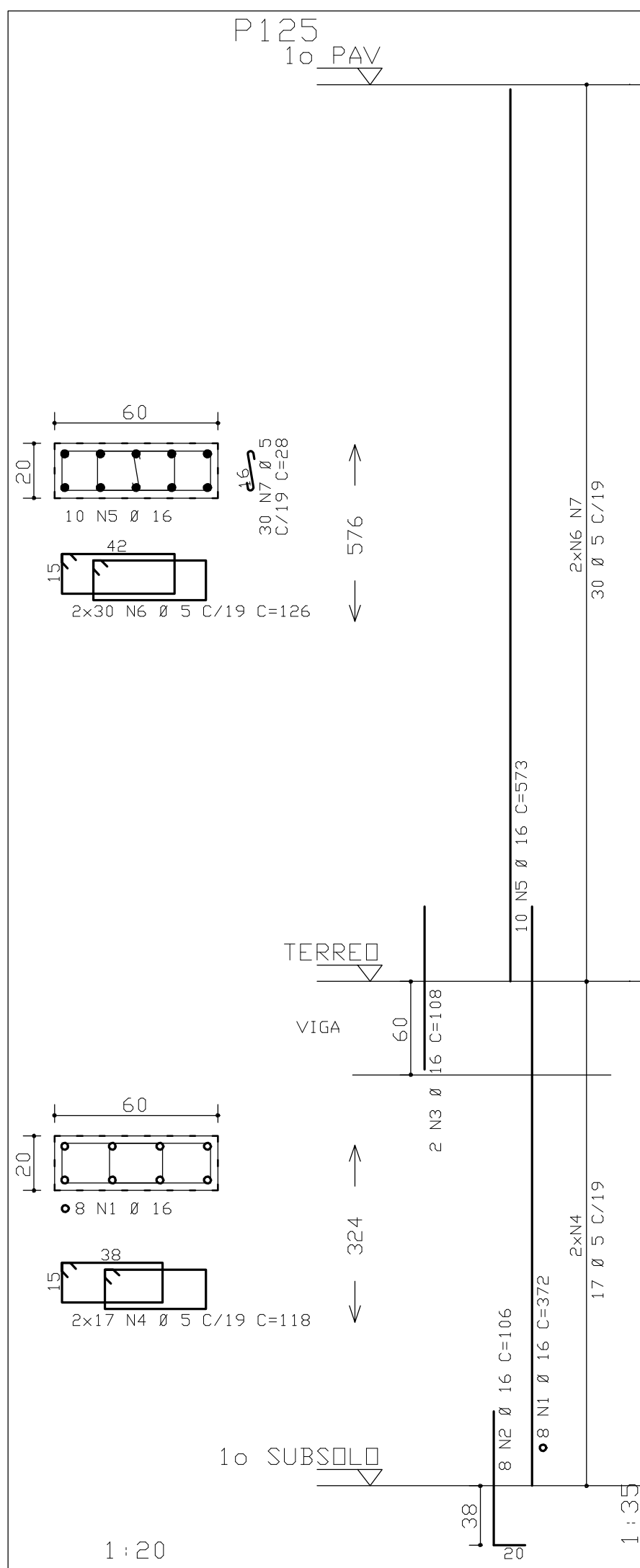
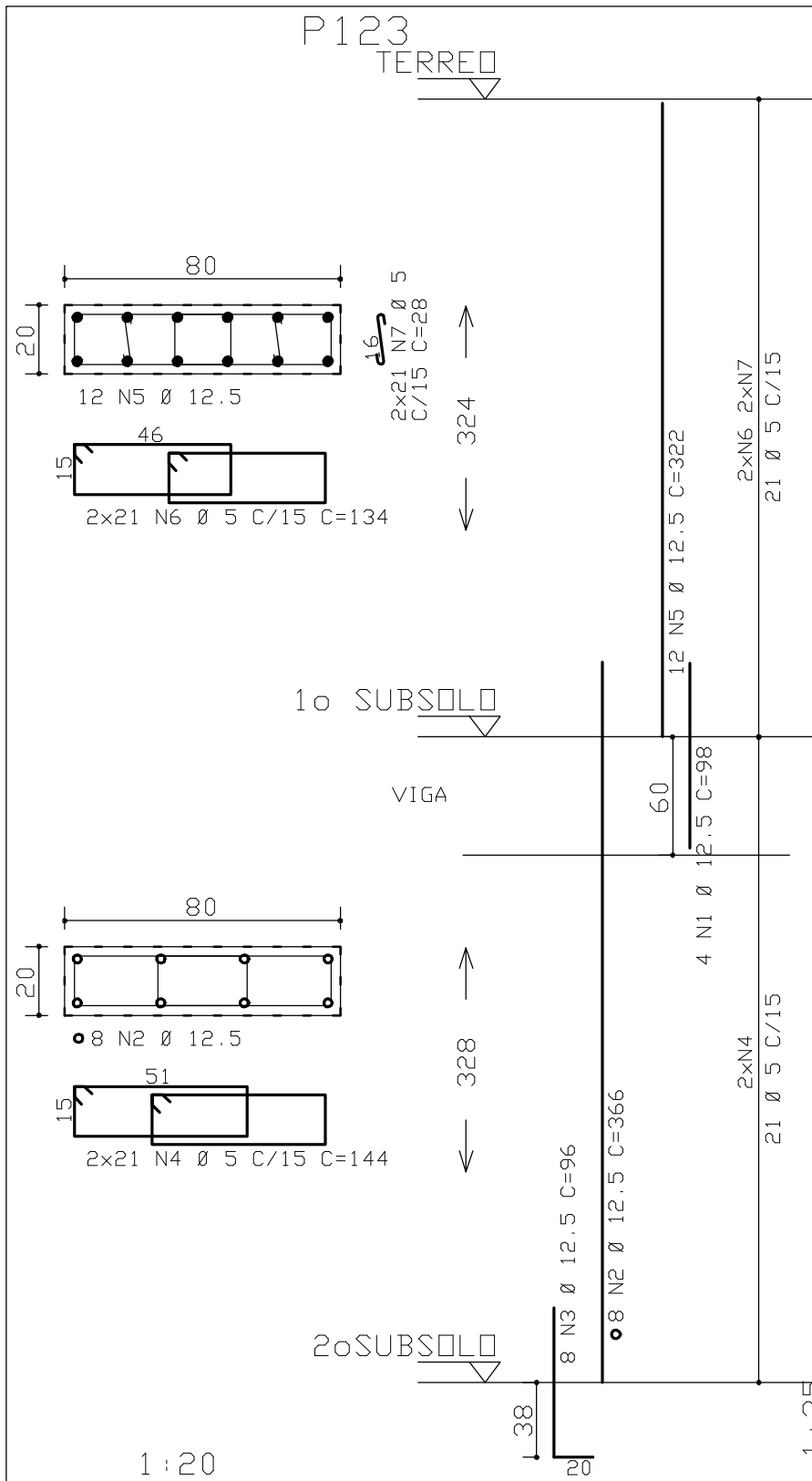
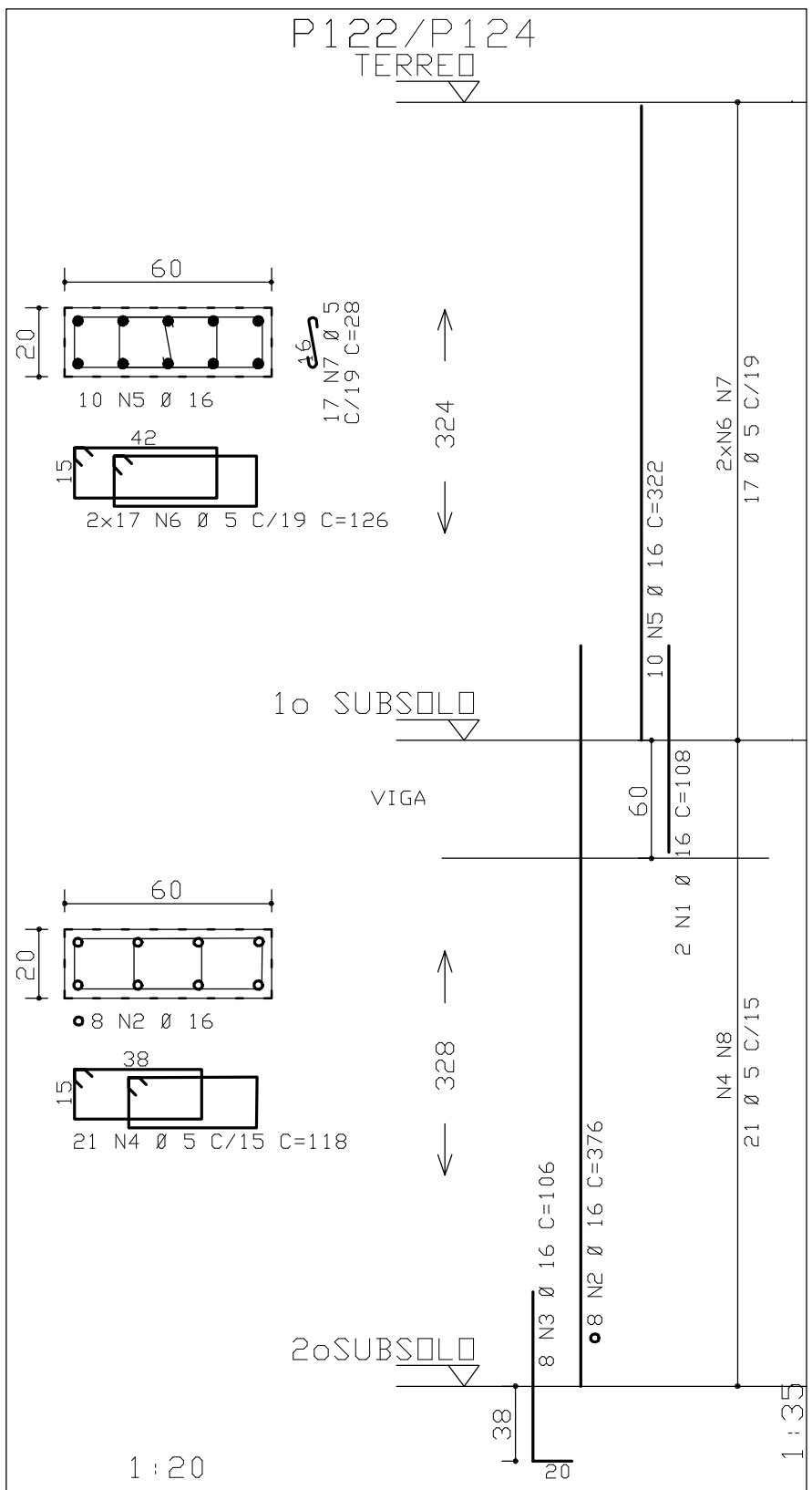
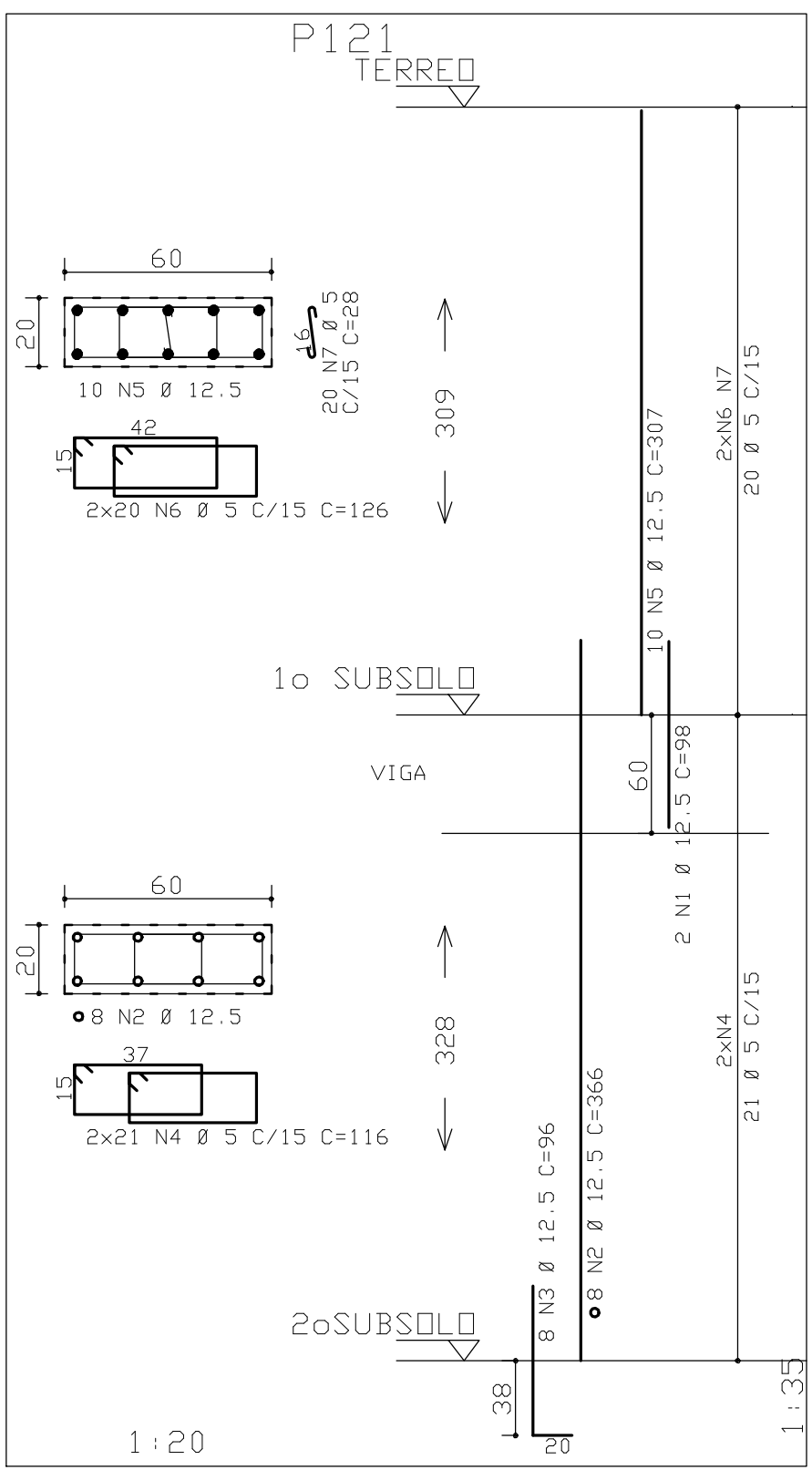




RESUMO AÇO CA 50-60				
ACD	BIT	COMPR	PESO	
608	5	2847	369	
50A	5	159	85	
50A	10	183	116	
50A	12.5	414	276	
50A	16	455	656	
50A	20	535	1337	
50A	25	175	725	
Peso Total			360	167
608 =			3284	kg
PAVIMENTO 1o SUBSOLO				
RESUMO AÇO CA 50-60				
ACD	BIT	COMPR	PESO	
608	5	882	138	
50A	12.5	80	80	
50A	16	81	130	
Peso Total			299	kg
608 =			210	kg
PAVIMENTO 1o TERREDO				
RESUMO AÇO CA 50-60				
ACD	BIT	COMPR	PESO	
608	5	882	138	
50A	6.3	46	11	
50A	10	183	116	
50A	12.5	254	284	
50A	16	105	168	
50A	20	96	213	
50A	25	169	156	
Peso Total			138	kg
608 =			870	kg

PAVIMENTO 2o PAV				
RESUMO AÇO CA 50-60				
ACD	BIT	COMPR	PESO	
608	5	796	127	
50A	12.5	80	80	
50A	16	253	324	
50A	20	380	1020	
Peso Total			1527	kg
608 =			1130	kg
PAVIMENTO M MOTOR				
RESUMO AÇO CA 50-60				
ACD	BIT	COMPR	PESO	
608	5	796	127	
50A	12.5	80	80	
50A	16	29	46	
50A	20	169	156	
50A	25	136	146	
Peso Total			66	kg
608 =			1046	kg

ACO	PDS	BIT	QUANT	COMPRIMENTO	UNIT	TOTAL
(mm)					(kg)	
P121						
50A	1	12.5	2	88	126	
50A	2	12.5	8	366	2928	
50A	4	5	42	116	4872	
50A	6	5	40	126	5040	
50A	7	5	28	88	2464	
P122						
50A	2	16	16	108	6016	
50A	4	5	42	118	4956	
50A	6	5	34	126	4284	
50A	7	5	28	88	2464	
P123						
50A	2	12.5	8	366	2928	
50A	4	5	42	144	6048	
50A	6	5	40	134	5368	
50A	7	5	28	126	4284	
P125						
50A	2	16	8	372	2976	
50A	4	5	34	118	4012	
50A	6	5	60	126	7560	
50A	7	5	28	88	2464	
P126						
50A	1	12.5	20	325	6440	
50A	2	16	20	128	2560	
50A	4	5	34	126	4284	
50A	6	5	28	88	2464	
P128						
50A	1	25	8	325	2576	
50A	2	25	8	163	1280	
50A	4	6.3	38	126	4788	
P129						
50A	1	25	18	325	3220	
50A	2	20	10	180	1800	
50A	4	5	19	28	532	
P130						
50A	1	10	24	325	7728	
50A	2	12	24	280	2592	
50A	3	5	162	116	18728	
P131						
50A	1	25	8	325	2576	
50A	2	25	8	163	1280	
50A	4	5	36	118	4248	
P132						
50A	1	10	20	325	6440	
50A	2	12	20	24	576	
50A	3	5	104	126	13104	
50A	4	5	24	88	2112	
P136						
50A	1	12.5	18	325	5850	
50A	2	12.5	10	189	1980	
50A	3	5	40	126	5040	
50A	4	5	20	88	2464	
PN101						
50A	1	12.5	16	359	8944	
50A	2	12.5	16	109	1600	
50A	4	5	111	126	13998	
PN102						
50A	1	16	8	614	4912	
50A	2	16	8	329	2636	
50A	3	16	12	115	1280	
50A	4	5	58	126	7376	
50A	6	5	29	126	4086	
50A	7	5	40	126	5040	
PN103						
50A	1	20	24	628	15072	
50A	2	20	24	125	2500	
50A	3	20	4	127	508	
50A	4	5	124	126	15128	
50A	6	5	28	126	3528	
50A	7	5	28	88	2464	
50A	8	5	68	110	7480	
50A	9	5	34	88	2992	
PN105						
50A	1	20	12	628	7536	
50A	2	20	12	125	1464	
50A	3	20	4	127	508	
50A	4	5	16	126	2016	
50A	6	5	31	126	3906	
50A	7	5	28	88	2464	
50A	8	5	31	126	3906	
50A	9	5	28	88	2464	
PN106						
50A	1	16	8	614	4912	
50A	2	16	8	329	2636	
50A	3	16	12	115	1280	
50A	4	5	58	126	7376	
50A	6	5	29	126	4086	
50A	7	5	40	126	5040	
PN107						
50A	1	20	10	301	3010	
50A	2	20	10	127	1270	
50A	3	5	20	28	1480	
50A	4	5	20	28	560	
PN108						
50A	1	25	30	359	10770	
50A	2	25	30	95	2350	
50A	3	5	8	112	6720	
PN111						
50A	1	25	8	359	8872	
50A	2	25	8	163	1280	
PN112						
50A	1	15	8	215	1728	
50A	2	5	20	88	1640	

COBRIMENTO DA ARMADURA:

- LAJES = 2,0 cm
- VIGAS E PILARES = 2,5 cm
- BLOCOS BALANES E CONTENEDORES (FACE EM CONTATO COM A TERRA) = 3,0 cm
- ESSES COBRIMENTOS DEVEM SER GARANTIDOS COM O USO DE ESPACADORES DO TIPO PLASTICO
- COBRIMENTOS ESPECIFICOS EM CONTRATO AOS VALORES INDICADOS ACIMA, ESTAO INDICADOS NOS DESENHOS DE FORMAS DOS PAVIMENTOS

NORMAS UTILIZADAS:

NBR-6118/2003 - PROJETO E EXECUCAO DE OBRAS DE CONCRETO ARMADO

NBR-6120/1980 - CARGAS PARA O CALCULO DE ESTRUTURAS DE EDIFICACOES

INDICE:

P121 A P136 / PN101 A PN113

FCK = 35 MPa (Piso do 2o Subsolo ao 1o Pav)

FCK = 30 MPa (Piso do 1o Pav para cima)

EC = 28 GPa (MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS)

A/C = 0,65 (FATOR AGUA CIMENTO)

2	10/09/2009	ALTERADOS PILARES PN101 A PN111
1	16/04/2009	LIBERADO PARA OBRA
0	31/03/2009	EMISSAO INICIAL
REV	2016	DESCRIÇÃO
PROJETO ESTRUTURAL		
CLIENTE:	BISCO INCORPORADORA E IMOBILIARIA LTDA	
OBRA:	EDIFICIO RESIDENCIAL OLIMPIQUE	

