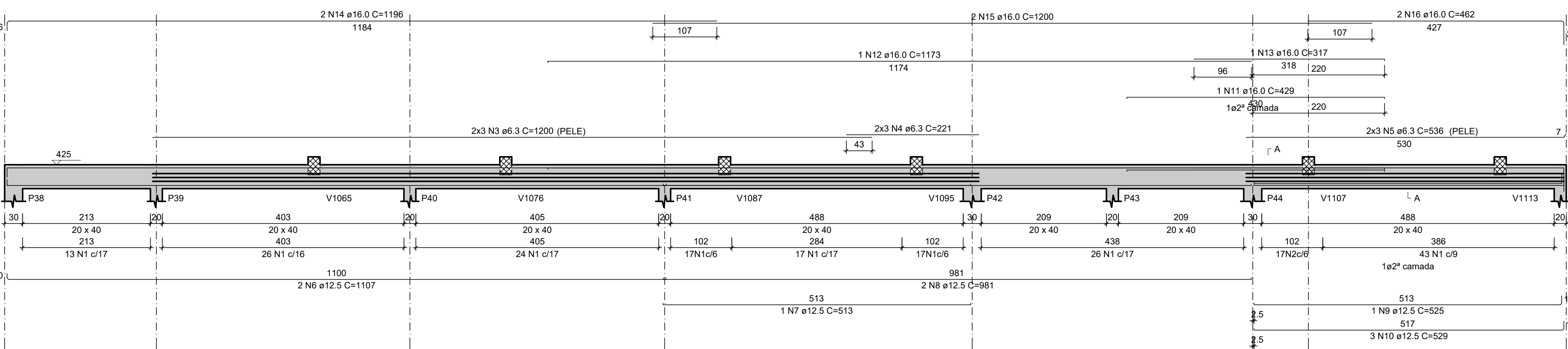
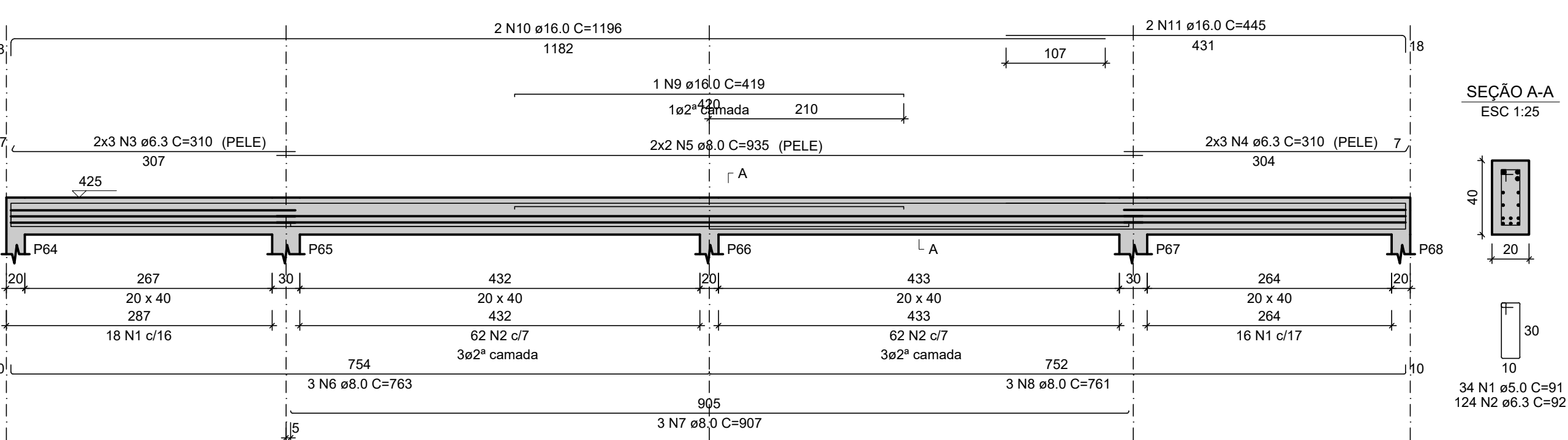


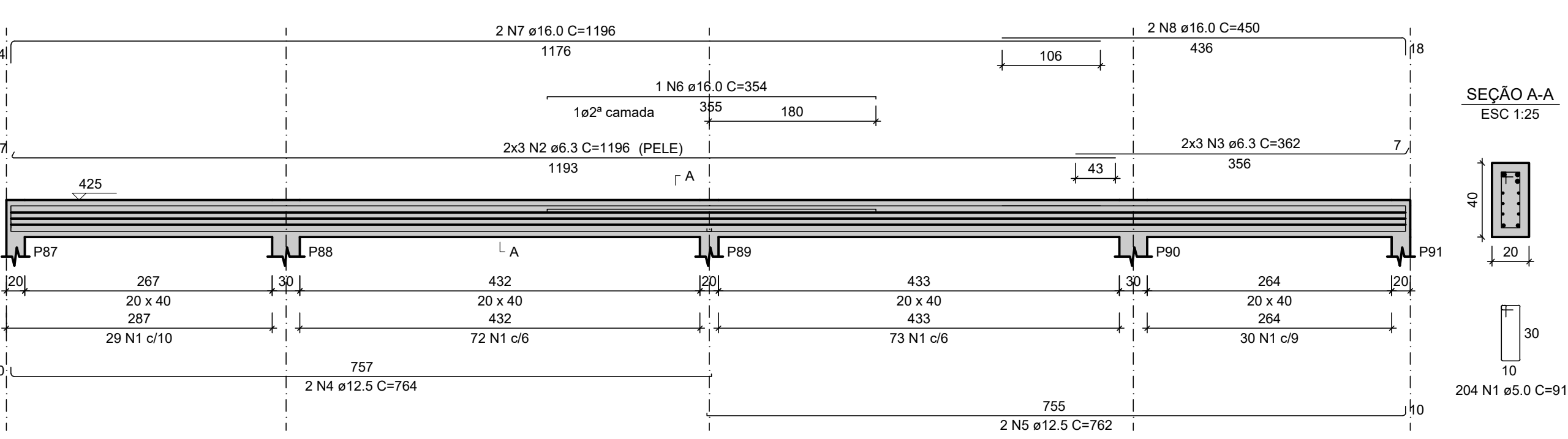
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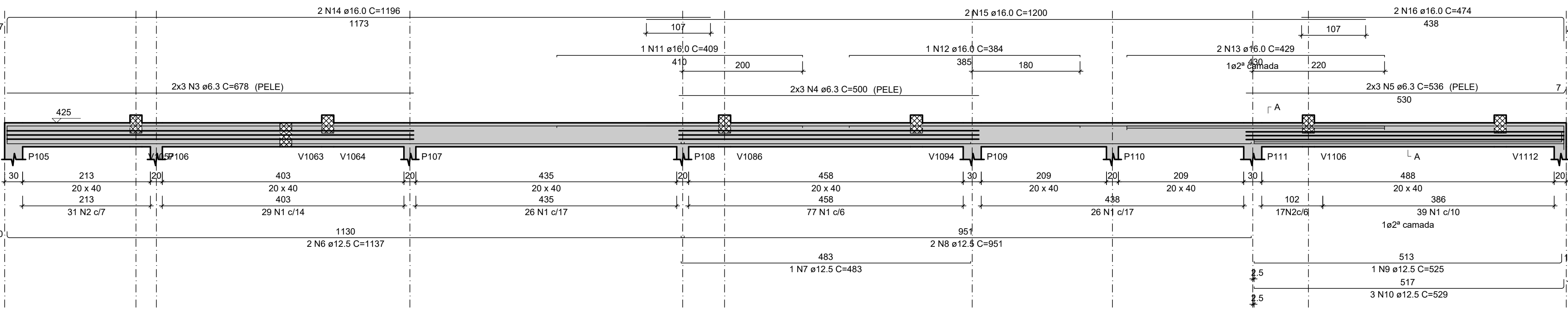
V1022



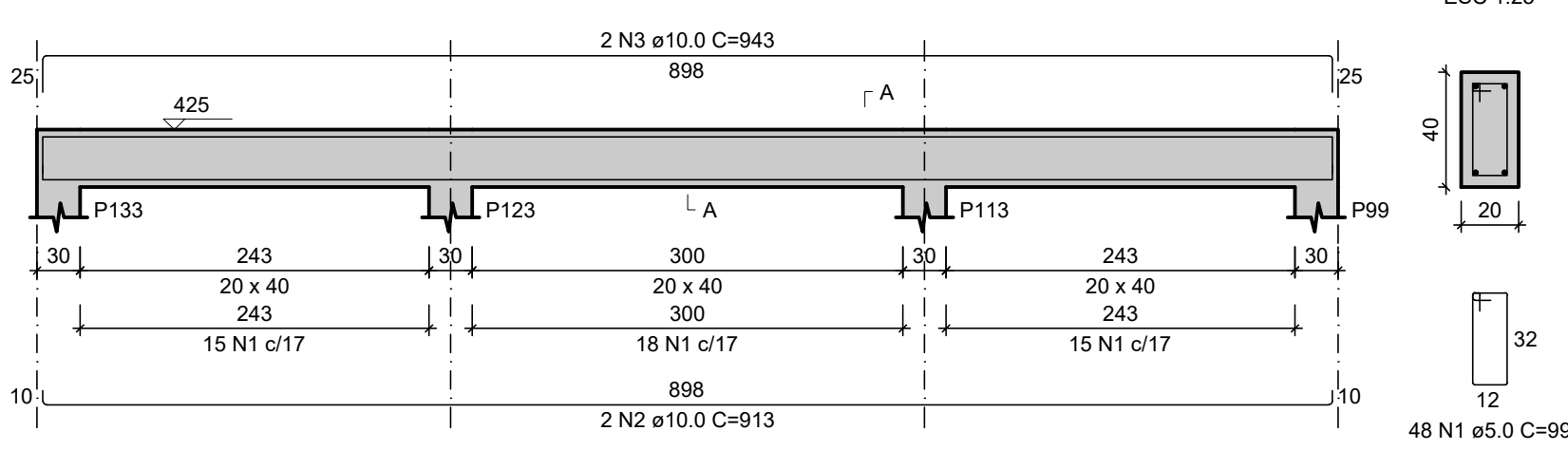
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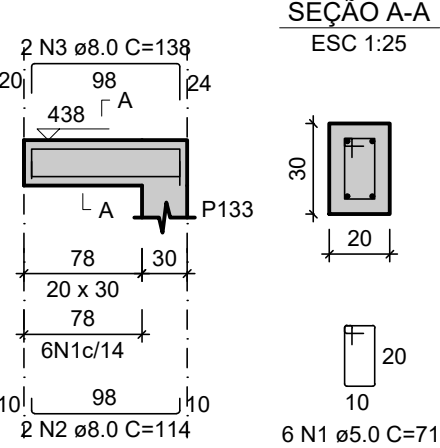
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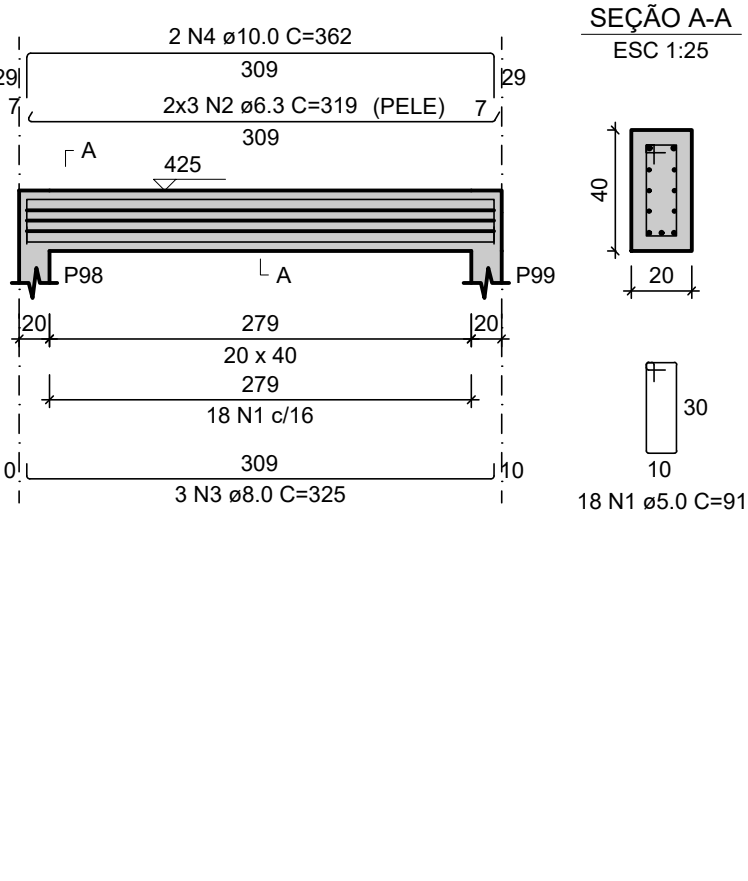
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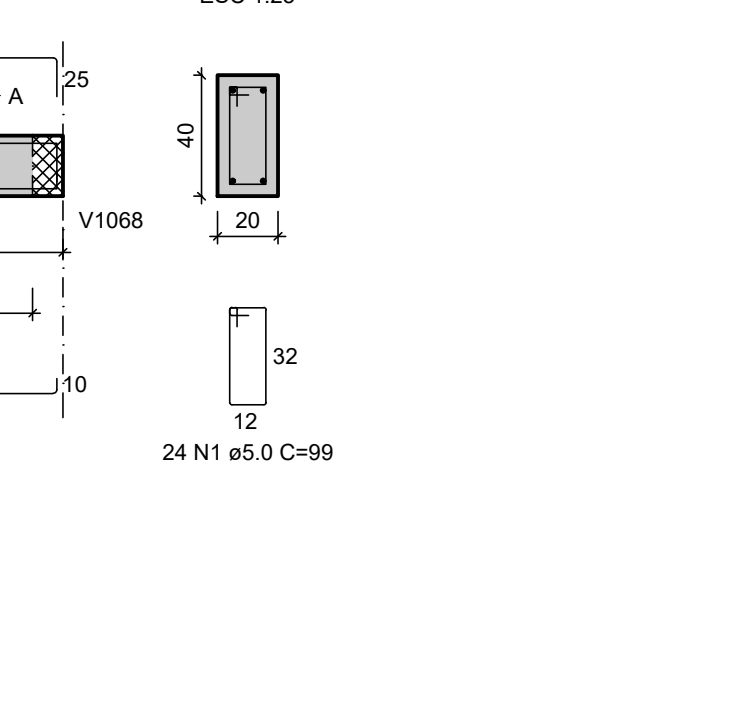
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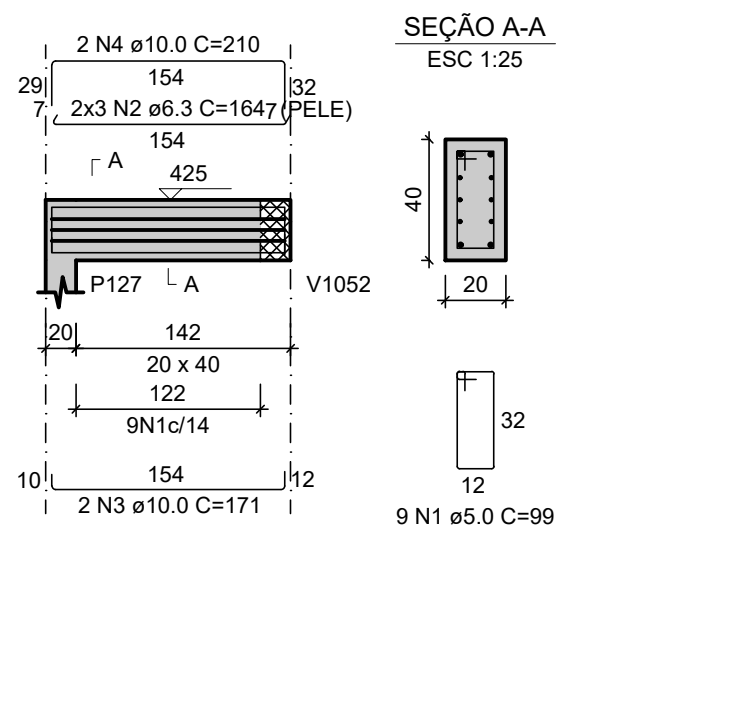
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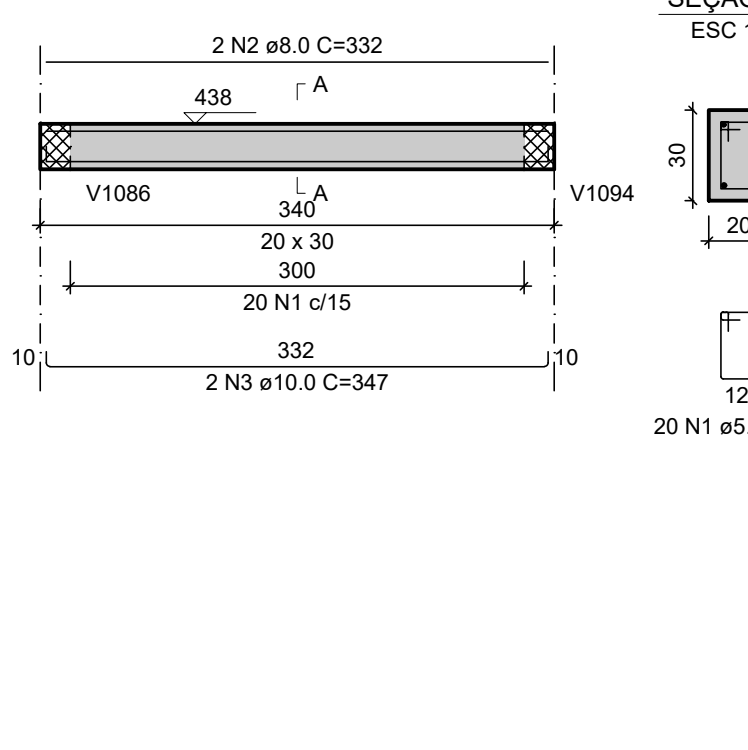
V1030



V1041



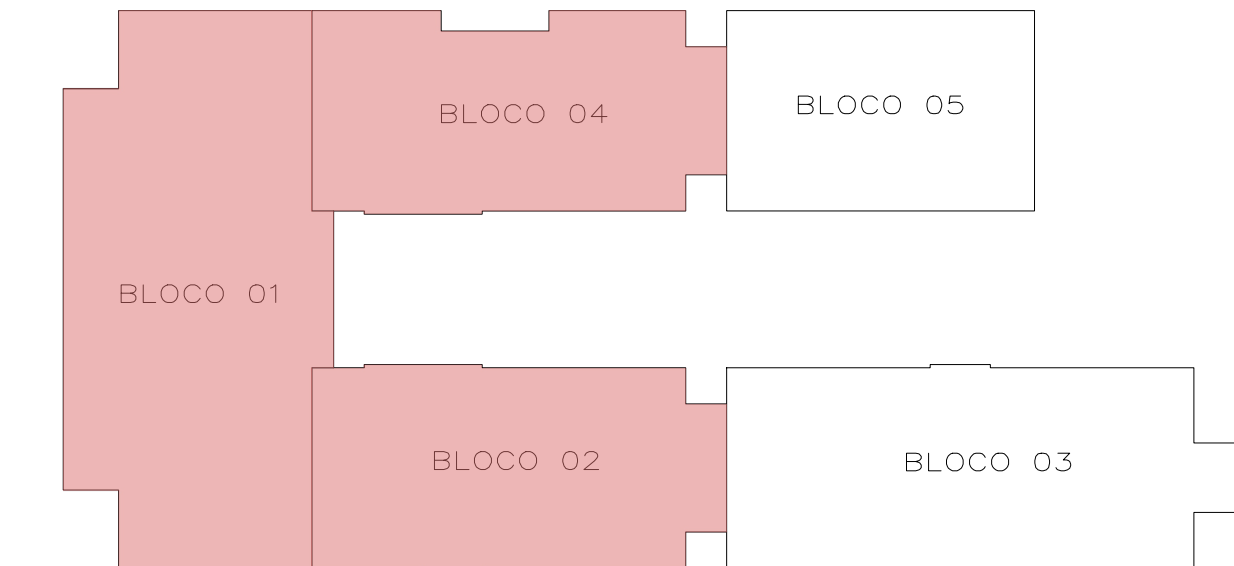
V1034=V1035=V1036=V1037=V1038=V1039



RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1016	CA60	1	5.0	183	99	18117
	CA50	2	6.3	17	100	1700
	CA50	3	6.3	6	1200	7200
	CA50	4	6.3	6	221	1326
	CA50	5	6.3	6	536	3216
	CA50	6	12.5	2	1107	2214
	CA50	7	12.5	1	513	513
	CA50	8	12.5	2	981	1962
	CA50	9	12.5	1	525	525
	CA50	10	12.5	3	529	1587
	CA50	11	16.0	1	429	429
	CA50	12	16.0	1	1173	1173
	CA50	13	16.0	1	317	317
	CA50	14	16.0	2	1196	2392
	CA50	15	16.0	2	2400	2400
V1022	CA60	1	5.0	34	91	3094
	CA50	2	6.3	124	92	11408
	CA50	3	6.3	6	310	1860
	CA50	4	6.3	6	310	1860
	CA50	5	8.0	4	935	3740
	CA50	6	8.0	3	763	2289
	CA50	7	8.0	3	907	2721
	CA50	8	8.0	3	761	2283
	CA50	9	16.0	1	419	419
	CA50	10	16.0	2	1196	2392
	CA50	11	16.0	2	445	890
	CA60	1	5.0	204	91	18564
	CA50	2	6.3	6	1196	7176
	CA50	3	6.3	6	362	2172
	CA50	4	12.5	2	764	1528
V1026	CA50	5	12.5	2	762	1524
	CA50	6	16.0	1	354	354
	CA50	7	16.0	2	1196	2392
	CA50	8	16.0	2	450	900
	CA60	1	5.0	25	99	2475
	CA50	2	10.0	1	202	202
	CA50	3	10.0	1	206	206
	CA50	4	10.0	2	484	968
	CA50	5	12.5	2	455	910
	CA60	1	5.0	18	91	1638
	CA50	2	6.3	6	319	1914
	CA50	3	8.0	3	325	975
	CA50	4	10.0	2	362	724
	CA60	1	5.0	24	99	2376
	CA50	2	10.0	2	450	900
V1030	CA50	3	10.0	2	480	960
	CA60	1	5.0	26	99	2574
	CA50	2	10.0	2	512	1024
	CA50	3	12.5	2	481	962
	CA60	1	5.0	197	99	19503
	CA50	2	6.3	48	100	4800
	CA50	3	6.3	6	678	4068
	CA50	4	6.3	6	500	3000
	CA50	5	6.3	6	536	3216
	CA50	6	12.5	2	1137	2274
	CA50	7	12.5	1	483	483
	CA50	8	12.5	2	951	1902
	CA50	9	12.5	1	525	525
	CA50	10	12.5	3	529	1587
	CA50	11	16.0	1	409	409
V1032	CA50	12	16.0	1	384	384
	CA50	13	16.0	2	429	858
	CA50	14	16.0	2	1196	2392
	CA50	15	16.0	2	1200	2400
	CA50	16	16.0	2	474	948
	CA60	1	5.0	120	79	9480
	CA50	2	8.0	12	332	3984
	CA50	3	10.0	12	347	4164
	CA60	1	5.0	9	99	891
	CA50	2	6.3	6	164	984
	CA50	3	10.0	2	171	342
	CA50	4	10.0	2	210	420
	CA60	1	5.0	5	71	355
	CA50	2	8.0	2	86	172
	CA50	3	8.0	2	110	220
V1033	CA60	1	5.0	24	71	1704
	CA50	2	8.0	8	114	912
	CA50	3	8.0	8	138	1104
	CA60	1	5.0	96	99	9504
	CA50	2	10.0	4	913	3652
	CA50	3	10.0	4	943	3772

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	559	150.5
	8.0	184	79.9
	10.0	173.3	117.6
	12.5	185	196
	16.0	223.7	388.4
CA60	5.0	902.8	153.1
PESO TOTAL (kg)			
CA50	932.3		
CA60	153.1		

Volume de concreto (C-30) = 10.10 m³
Área de forma = 89.05 m²

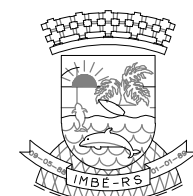


JOSE VILMAR P. DE FRAGA
ARQUITETO E URBANISTA

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ENGENHEIRO CIVIL

ANA CAROLINA M. SANTOS
ARQUITETA E URBANISTA

HENRIQUE RODRIGUES DIAS
AUX. ENGENHEIRO CIVIL



ESTADO DO RIO GRANDE DO SUL
PREFEITURA MUNICIPAL DE IMBÉ
AVENIDA PARAGUASSU, 2070 - CENTRO - IMBÉ - RS
FONE: 51.3627.8515 - CEP: 95.625-000

E. M. E. F. RUI BARBOSA NOVAS INSTALAÇÕES			
ADMINISTRAÇÃO 2025/2028	EXERCÍCIO BAIRRO MARILUZ - IMBÉ - RS 2025/2028	DESENHO BRUNO	
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	BRUNO REBECHI DALLE MULLE ENGENHEIRO CIVIL CREA-RS 202822	DATA ABRIL 2025	
	RUTH JOSIELLI MONTEIRO RUSCHEL SECRETARIA MUNICIPAL DE EDUCAÇÃO	ÁREA 2.491,91m²	
	PROJETO ESTRUTURAL ARMADURAS VIGAS COBERTURA - BLOCOS 02 E 04 - 02	PREÇO 15/56	