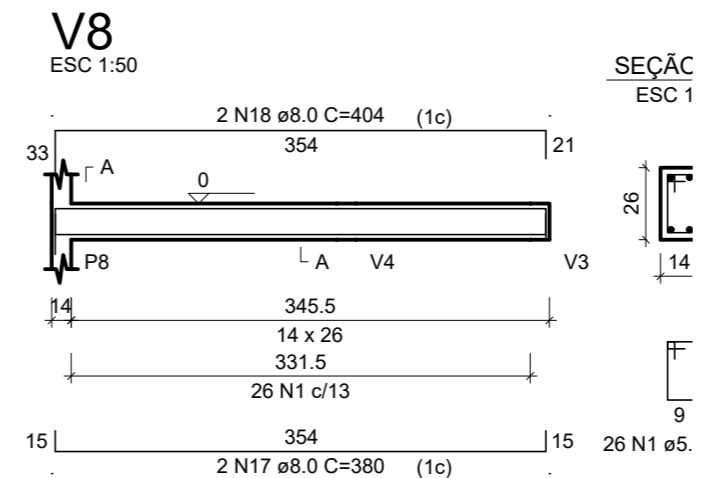
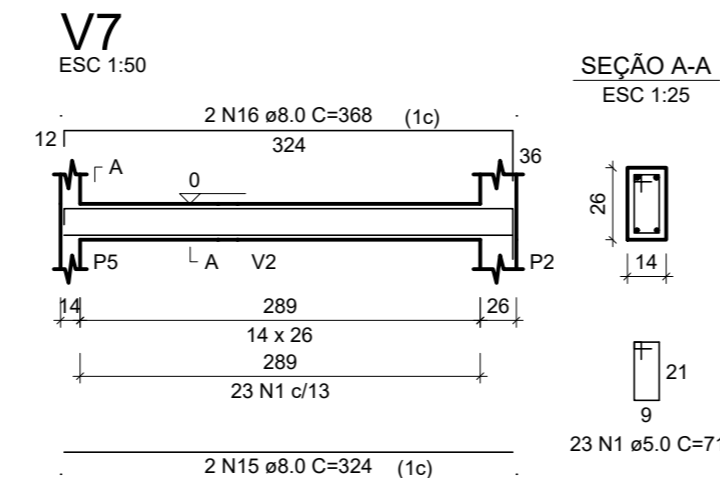
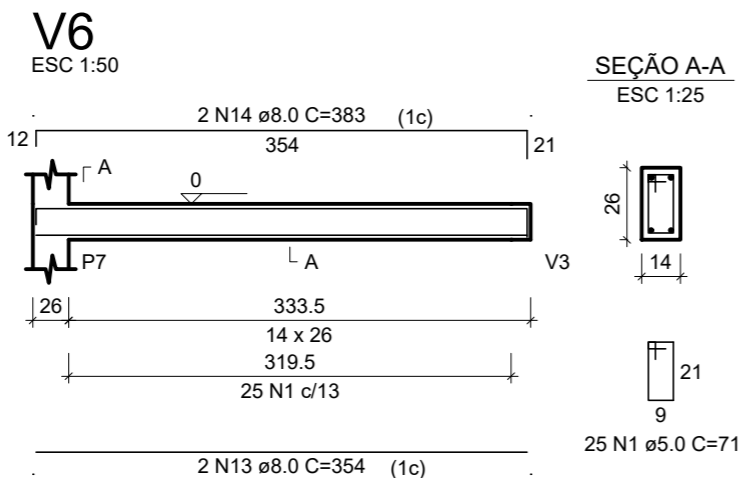
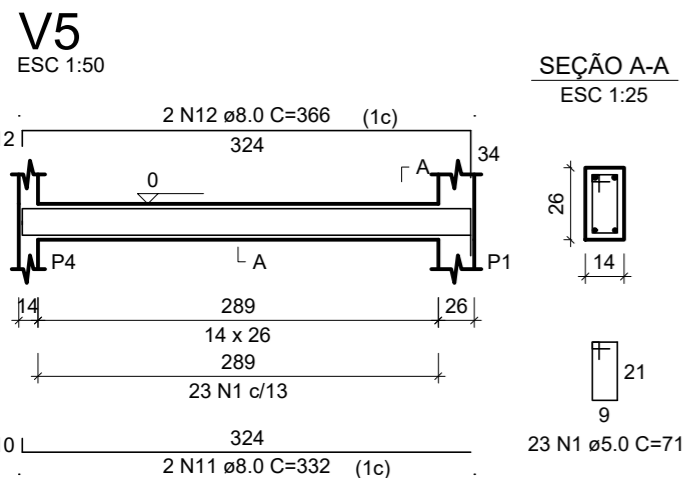


RELAÇÃO DO AÇO

VIGAS BALDRAMES

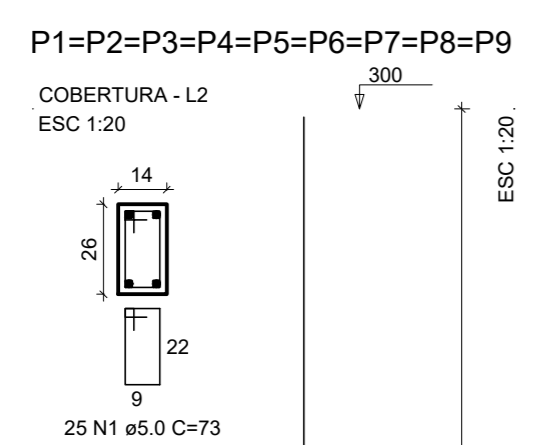
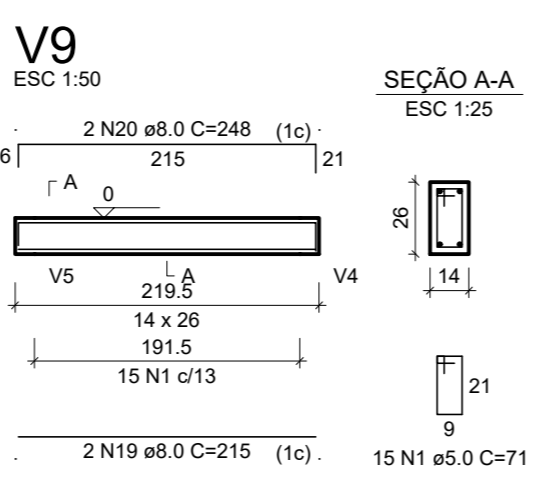
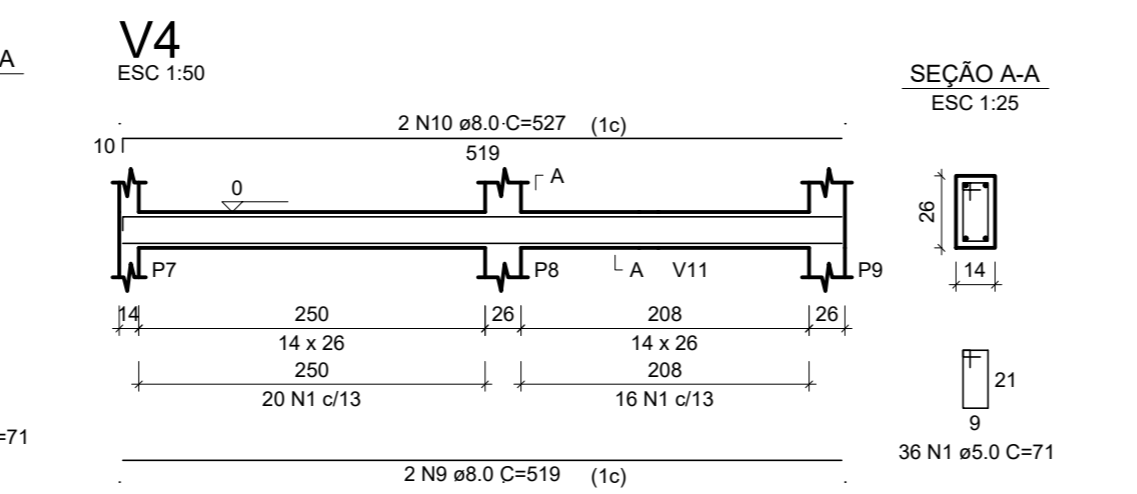
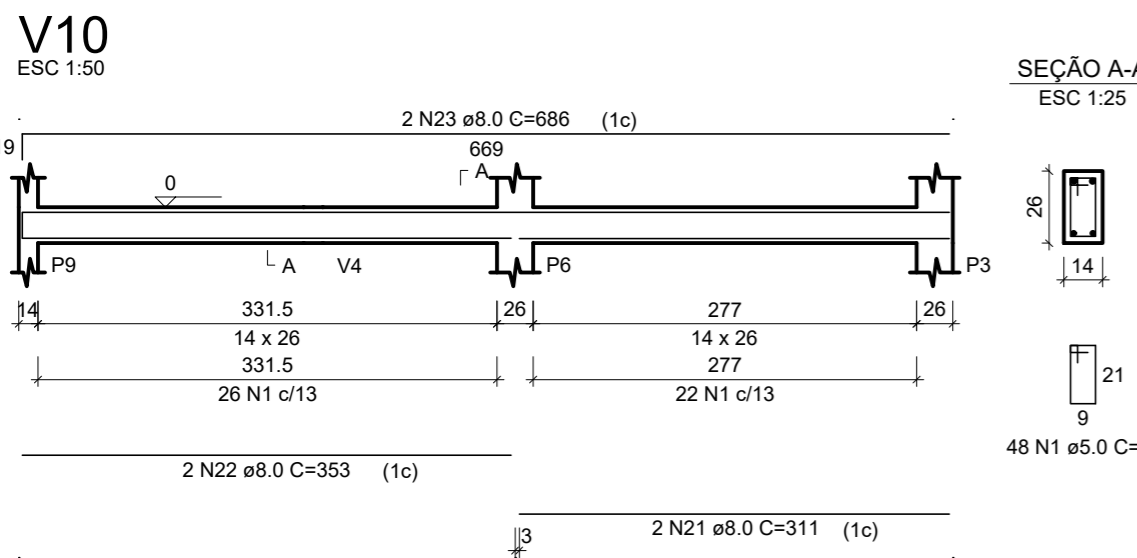
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	348	71	24708
CA50	2	8.0	4	301	1204
	3	8.0	3	363	1089
	4	8.0	2	689	1378
	5	8.0	4	194	776
	6	8.0	3	351	1053
	7	8.0	2	705	1410
	8	8.0	4	250	1000
	9	8.0	2	519	1038
	10	8.0	2	527	1054
	11	8.0	2	332	664
	12	8.0	2	366	732
	13	8.0	2	354	708
	14	8.0	2	383	766
	15	8.0	6	324	1944
	16	8.0	2	368	736
	17	8.0	3	380	1140
	18	8.0	2	404	808
	19	8.0	2	215	430
	20	8.0	2	248	496
	21	8.0	2	311	622
	22	8.0	3	353	1059
	23	8.0	2	686	1372



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	8.0	194.88	16	75.84
CA60	5.0	220.12	18	33.84
PESO TOTAL (kg)				
CA50				75.84
CA60				33.84

Volume de concreto (C-25) = 1.45 m³
Área de forma = 26.33 m²



RELAÇÃO DO AÇO

PILARES SUPERIORES

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	225	73	16425
CA50	2	10.0	36	298	10728

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10.0	107.3	10	72.8
CA60	5.0	164.3	15	28.6
PESO TOTAL (kg)				
CA50				72.8
CA60				28.6

Volume de concreto (C-25) = 0.98 m³
Área de forma = 21.60 m²

PROJETO ESTRUTURAL

RT.:	CREA/MG:
Eng. CRISTIANE JOSIELY VIEIRA BARBOSA	213651/D
PROP.:	ESCALAS:
PREFEITURA MUNICIPAL DE MANGA CNPJ: 18.270.447/0001-46	INDICADAS
ÁREAS:	LOCAL:
ÁREA CONSTRUIDA: 44,55m²	VESTIÁRIO CAMPO ALVOREDDO MANGA - MG
DETALHE:	DATA:
VIGAS BALDRAMES; RESUMO E RELAÇÃO DO AÇO; PILARES SUPERIORES.	27 DE AGOSTO DE 2021
	FOLHA:
	02-03