

RELAÇÃO DO AÇO

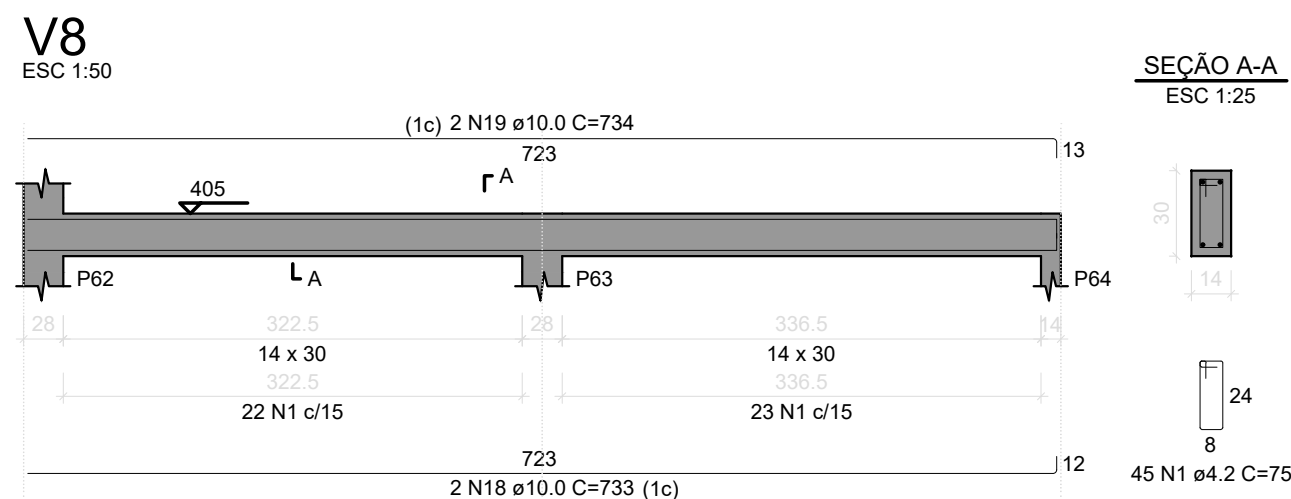
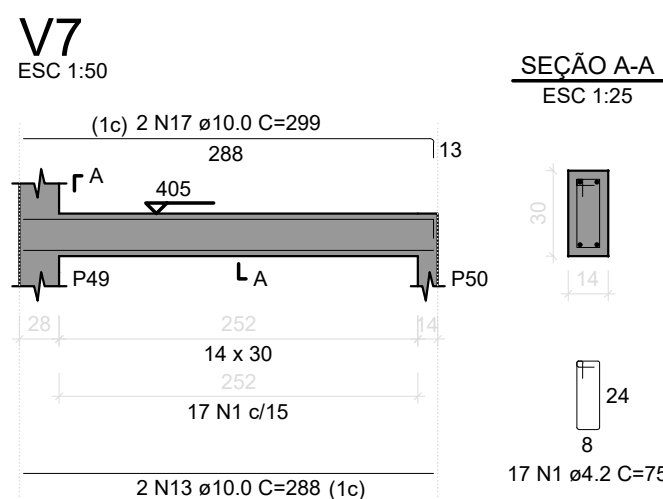
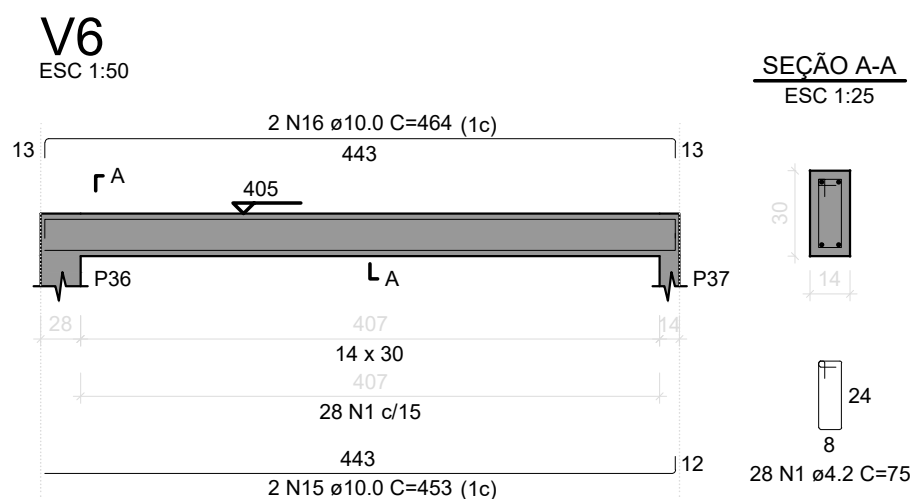
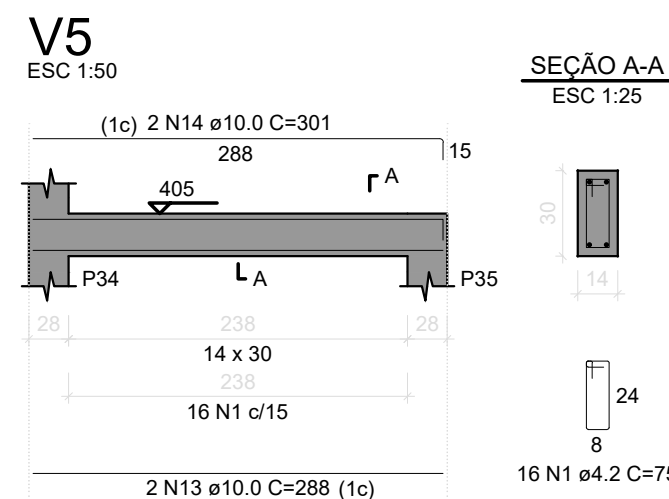
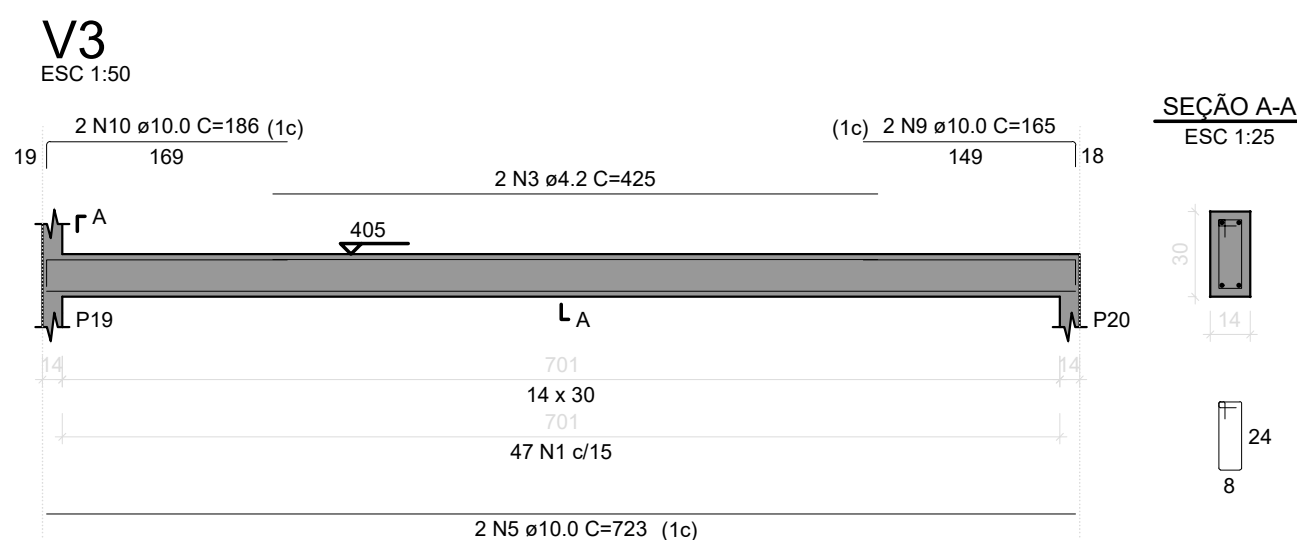
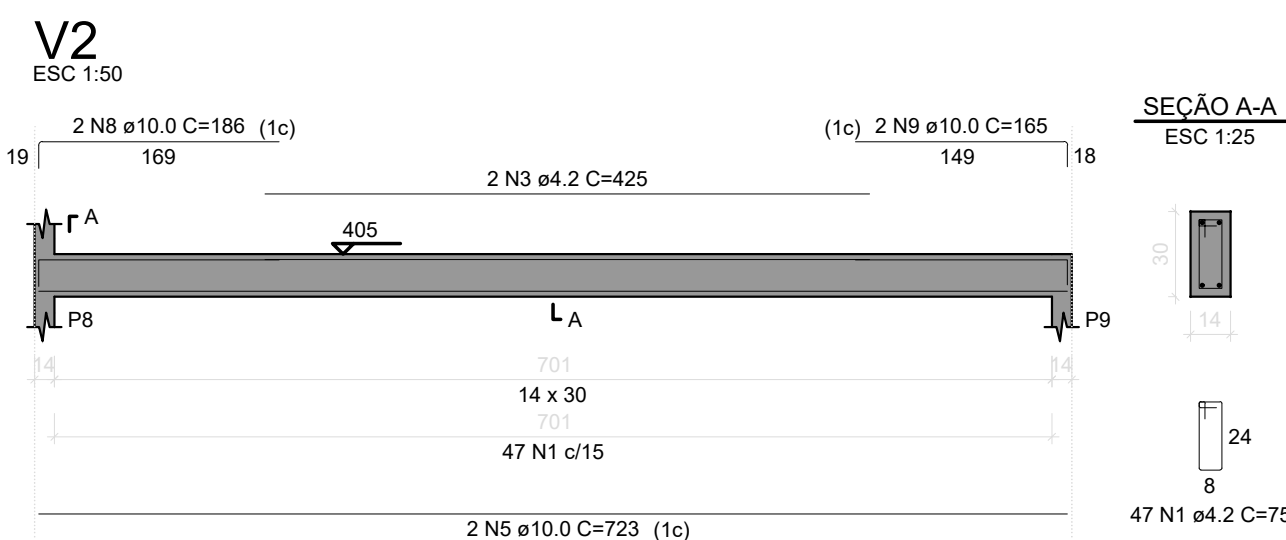
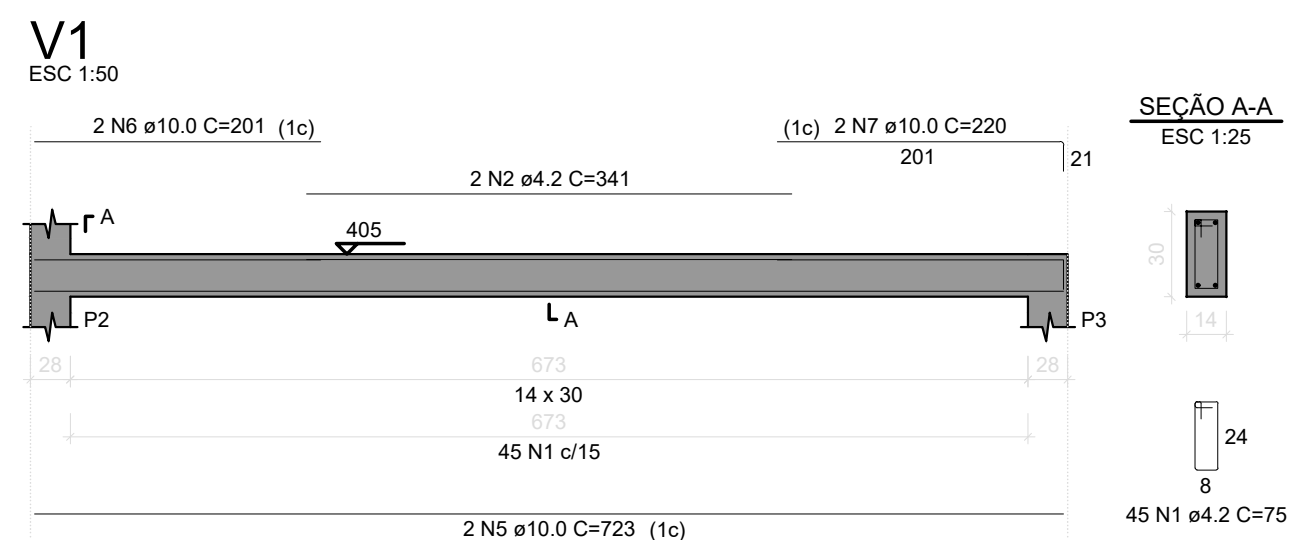
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	4.2	655	75	49125
	2	4.2	2	341	682
	3	4.2	4	425	1700
	4	4.2	2	465	930
CA50	5	10.0	8	723	5784
	6	10.0	2	201	402
	7	10.0	2	220	440
	8	10.0	2	186	372
	9	10.0	4	165	660
	10	10.0	2	186	372
	11	10.0	2	169	338
	12	10.0	2	141	282
	13	10.0	4	286	1152
	14	10.0	2	301	602
	15	10.0	2	453	906
	16	10.0	2	464	928
	17	10.0	2	299	598
	18	10.0	2	733	1466
	19	10.0	2	734	1468
	20	10.0	2	1054	2108
	21	10.0	2	1135	2270
	22	10.0	2	762	1524
	23	10.0	2	1199	2398
	24	10.0	4	1200	4800
	25	10.0	2	484	968
	26	10.0	2	233	466
	27	10.0	2	247	494
	28	10.0	2	1003	2006
	29	10.0	2	1072	2144
	30	10.0	2	718	1436
	31	10.0	2	1198	2396
	32	10.0	2	476	952

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	397.1	289.3
CA60	4.2	524.4	62.7
PESO TOTAL (kg)			
CA50		269.3	
CA60		62.7	

Volume de concreto (C-30) = 4.05 m³

Área de forma = 69.69 m²



PROJETO ARQUITETÔNICO
ESTRUTURAL - VIGAS

FOLHA
12/16

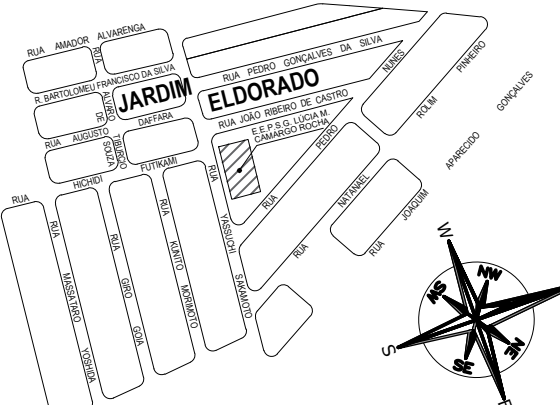
ASSUNTO
PROJETO DE AMPLIAÇÃO DA ESCOLA "LÚCIA DE MORAIS CAMARGO ROCHA"

LOCAL
RUA YASSUSHI SAKAMOTO, Nº 408 - VILA CAPITÃO CESÁRIO - MUNICÍPIO DE ITAÍ - SP.

INTERESSADOS
PREFEITURA MUNICIPAL DE ITAÍ

ESCALAS:
INDICADAS

LOCALIZAÇÃO (s/ escala)



INTERESSADO
PREFEITURA MUNICIPAL DE ITAÍ
JOSE RAMIRO ANTUNES DO PRADO
PREFEITO

ÁREAS (m²)

AMPLIAÇÃO: 401,19

TOTAL: 401,19

AUTOR DO PROJETO E RESP. TÉCNICO
JOÃO OTÁVIO CASTILHO DOS SANTOS
ENGENHEIRO CIVIL
CREA:5069983196