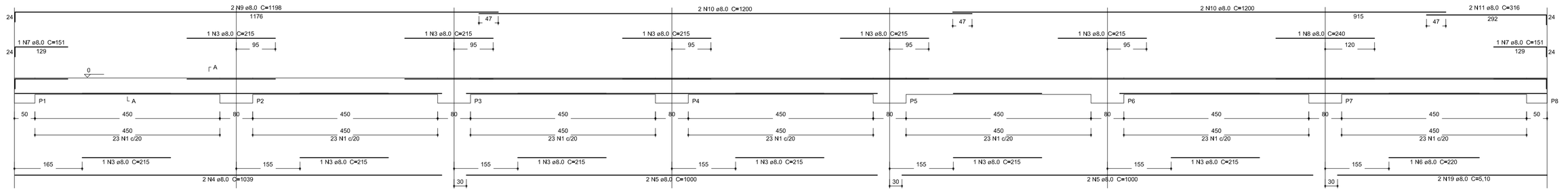
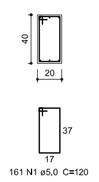
VIGA BALDRAME

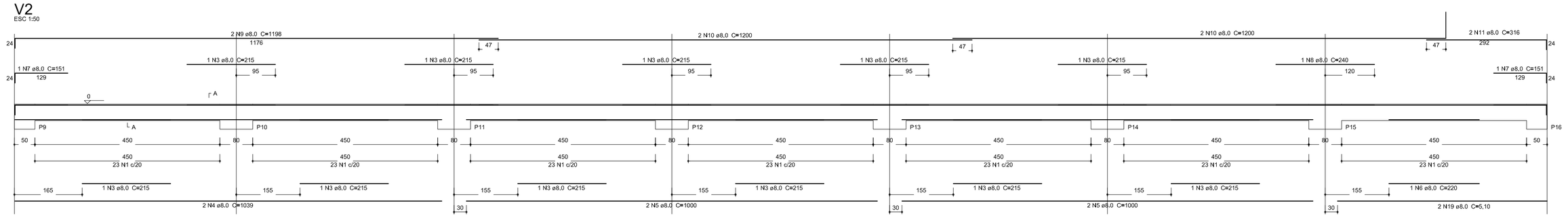
V1
ESC 1:50



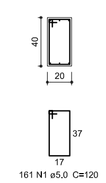
SEÇÃO A-A
ESC 1:25



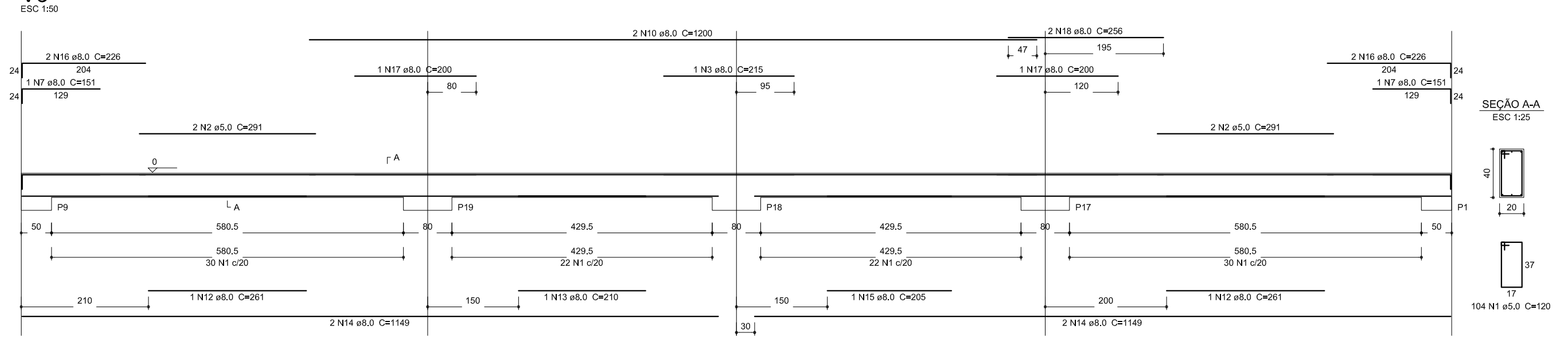
V2
ESC 1:50



SEÇÃO A-A
ESC 1:25

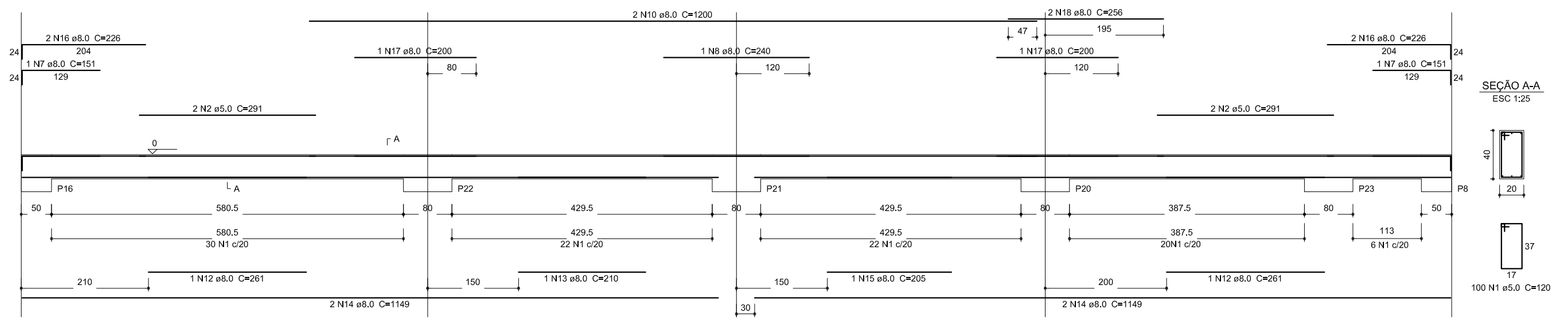


V3
ESC 1:50



SEÇÃO A-A
ESC 1:25

V4
ESC 1:50



SEÇÃO A-A
ESC 1:25

Resumo V.Baldrame

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8,0	586,70	231,75
CA60	5,0	636,00	97,94

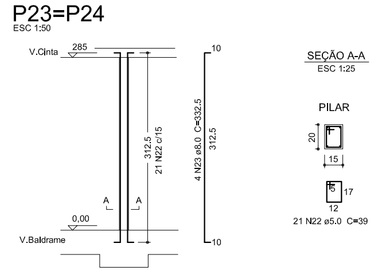
PESO TOTAL (kg)	
CA50	231,75
CA60	97,94

Volume de concreto (C-25) = 9,75 m³
Área de forma = 111,20 m²

RELAÇÃO DE AÇO						
ELEMENTO	AÇO	N	DIAM.	Q	UNIT(cm)	C.TOTAL(cm)
V1	50	1	5.0	161	120,00	19320,00
	60	3	8.0	11	215,00	2365,00
	60	4	8.0	2	1039,00	2078,00
	60	5	8.0	4	1000,00	4000,00
	60	6	8.0	1	220,00	220,00
	60	7	8.0	2	151,00	302,00
	60	8	8.0	1	240,00	240,00
	60	9	8.0	2	1198,00	2396,00
	60	10	8.0	4	1200,00	4800,00
	60	11	8.0	2	316,00	632,00
	60	19	8.0	1	510,00	510,00
V2	50	1	5.0	161	120,00	19320,00
	60	3	8.0	11	215,00	2365,00
	60	4	8.0	2	1039,00	2078,00
	60	5	8.0	4	1000,00	4000,00
	60	6	8.0	1	220,00	220,00
	60	7	8.0	2	151,00	302,00
	60	8	8.0	1	240,00	240,00
	60	9	8.0	2	1198,00	2396,00
	60	10	8.0	4	1200,00	4800,00
	60	11	8.0	2	316,00	632,00
	60	19	8.0	1	510,00	510,00
V3	50	1	5.0	104	120,00	12480,00
	60	2	8.0	4	291,00	1164,00
	60	3	8.0	1	215,00	215,00
	60	7	8.0	2	151,00	302,00
	60	10	8.0	2	1200,00	2400,00
	60	12	8.0	2	261,00	522,00
	60	13	8.0	1	210,00	210,00
	60	14	8.0	4	1149,00	4596,00
	60	15	8.0	1	205,00	205,00
	60	16	8.0	4	226,00	904,00
	60	17	8.0	2	200,00	400,00
	60	18	8.0	2	512,00	1024,00
V4	50	1	5.0	104	120,00	12480,00
	60	2	8.0	4	291,00	1164,00
	60	3	8.0	1	215,00	215,00
	60	7	8.0	2	151,00	302,00
	60	10	8.0	2	1200,00	2400,00
	60	12	8.0	2	261,00	522,00
	60	13	8.0	1	210,00	210,00
	60	14	8.0	4	1149,00	4596,00
	60	15	8.0	1	205,00	205,00
	60	16	8.0	4	226,00	904,00
	60	17	8.0	2	200,00	400,00
	60	18	8.0	2	512,00	1024,00
VC1	60	10	8.0	8	1200,00	9600,00
	50	22	5.0	114	39,00	4446,00
VC2	60	10	8.0	12	1200,00	14400,00
	60	20	8.0	4	271,00	1084,00
	50	22	5.0	182	39,00	7098,00
VC3	60	10	8.0	4	1200,00	4800,00
	60	21	8.0	4	991,00	3964,00
	50	22	5.0	105	39,00	4095,00
P23/24	60	23	8.0	8	332,5	2660,00
	50	21	5.0	42	39	1638,00

PILAR CONTRETO

P23=P24
ESC 1:50



Resumo Pilar

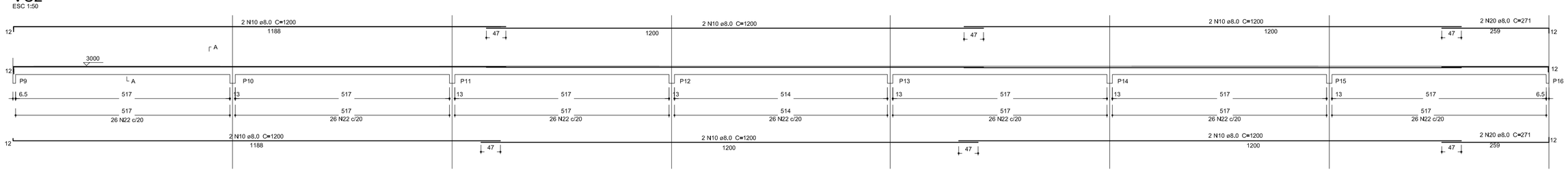
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8,0	25,00	9,87
CA60	5,0	16,38	2,52

PESO TOTAL (kg)	
CA50	9,87
CA60	2,52

Volume de concreto (C-25) = 0,17 m³
Área de forma = 1,80 m²

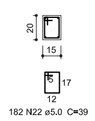
VIGA CINTA

VC2
ESC 1:50

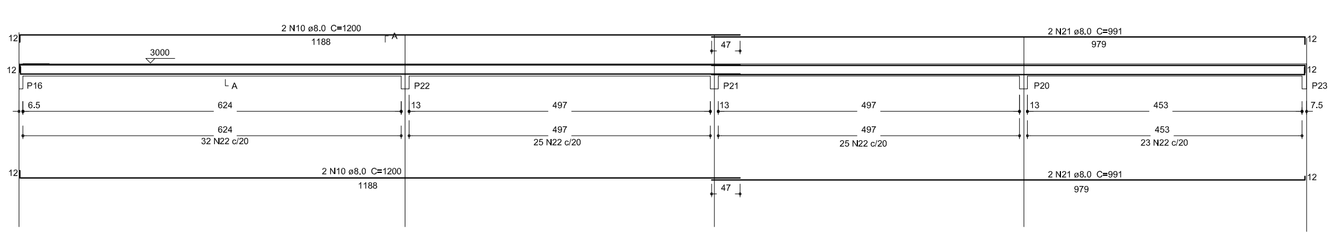


SEÇÃO A-A
ESC 1:25

VIGA CINTA

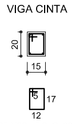


VC3
ESC 1:50



SEÇÃO A-A
ESC 1:25

VIGA CINTA



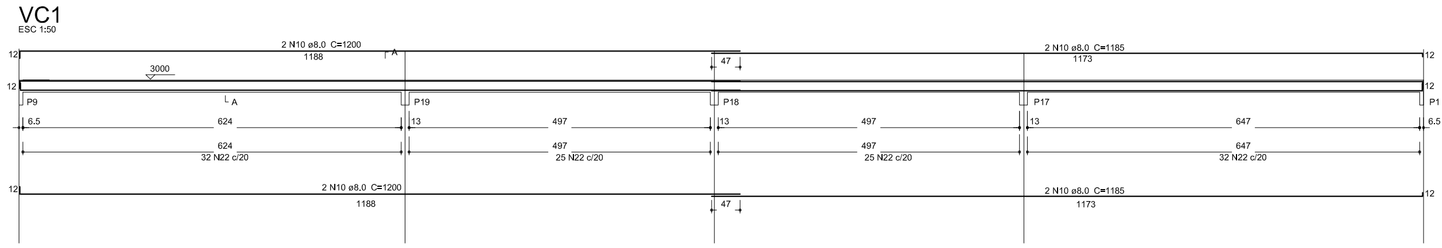
Resumo V.Cinta

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8,0	338,48	133,70
CA60	5,0	159,39	24,08

PESO TOTAL (kg)	
CA50	133,70
CA60	24,08

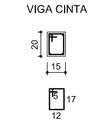
Volume de concreto (C-25) = 5,06 m³
Área de forma = 33,76 m²

VC1
ESC 1:50



SEÇÃO A-A
ESC 1:25

VIGA CINTA



CARIMBOS

PREFEITURA MUNICIPAL DE IMBAÚ
SSU - SECRETARIA DE SERVIÇOS URBANO
DEPARTAMENTO DE SERVIÇOS URBANOS
ENGENHARIA

PROPRIETÁRIO: SECRETARIA DE EDUCAÇÃO	MUNICÍPIO: IMBAÚ
OBRA: COBERTURA DE QUADRA	
LOCAL: RUA JAGUATIRICA - VILA NICOLAU	TIPO: REFORMA-AMPLIAÇÃO
SANDRO DIAS BAPTISTA ENG. CIVIL - CREA-PR 35.206/D	PROJETO: **ESTRUTURAL**
LAUIR DE OLIVEIRA PREFEITO MUNICIPAL	REFERÊNCIA: **DETALHAMENTO DE VIGAS BALDRAME e CINTA**

LOGO CONTRATADA	PREFEITURA MUNICIPAL DE IMBAÚ CNPJ: 01.613.705/0001-02 CREA: AV. FRANCISCO SIQUEIRA KORTZ, 471 - SÃO CRISTOVÃO IMBAU/PR. - CEP: 84250-000 TELEFONE: (42) 3278.8100	DESENHO: DESIGN COBERTA COM US.ESTANIO - ARQUITETÔNICO. DATA: DEZEMBRO/2016 ESCALA DO DESENHO: INDICADA ARQUIVO: GCOB-GD-SFN_01_R01_NICOLAU	**SFN 04 04**

ISO A0
841x1189
ISO A0 1189x1189