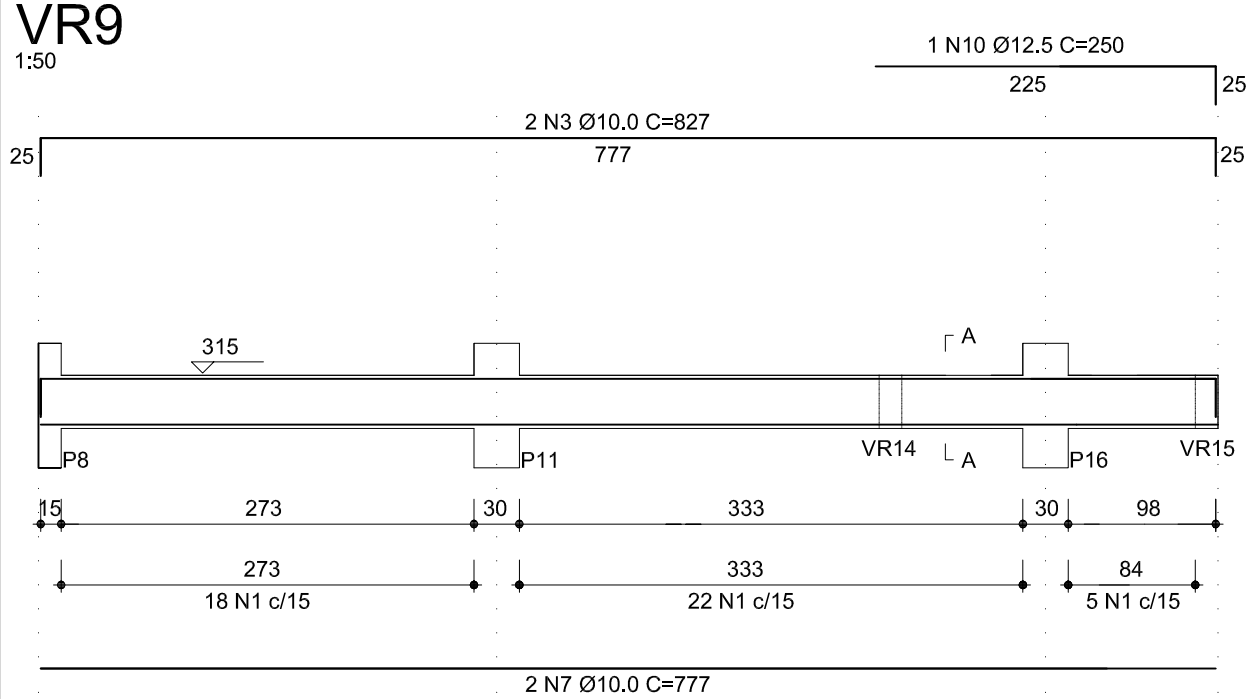
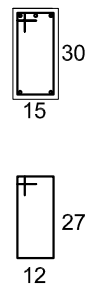
VR9
1:50

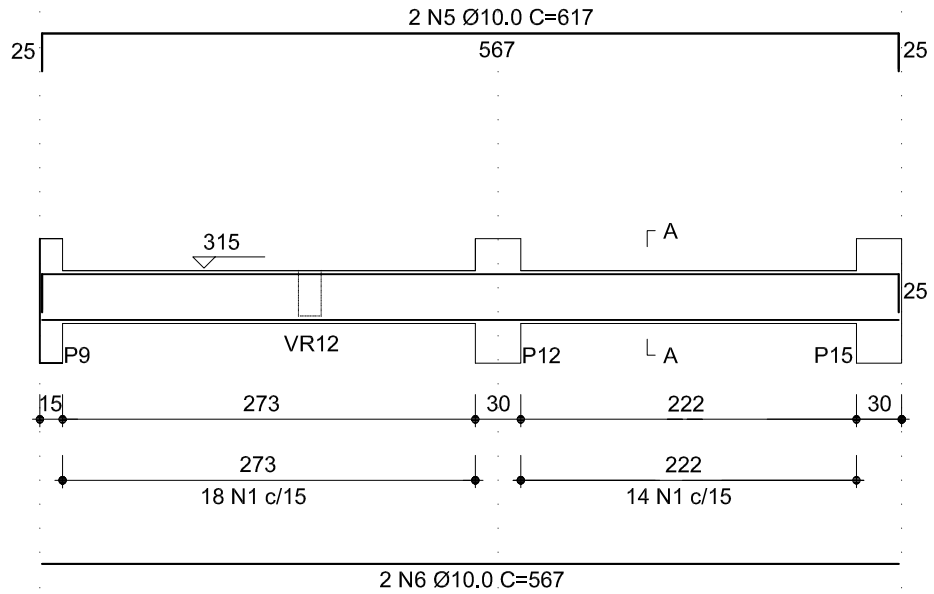


SEÇÃO A-A
ESC 1:25

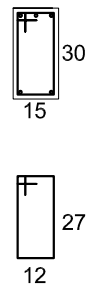


45 N1 Ø5.0 C=89

VR10
1:50

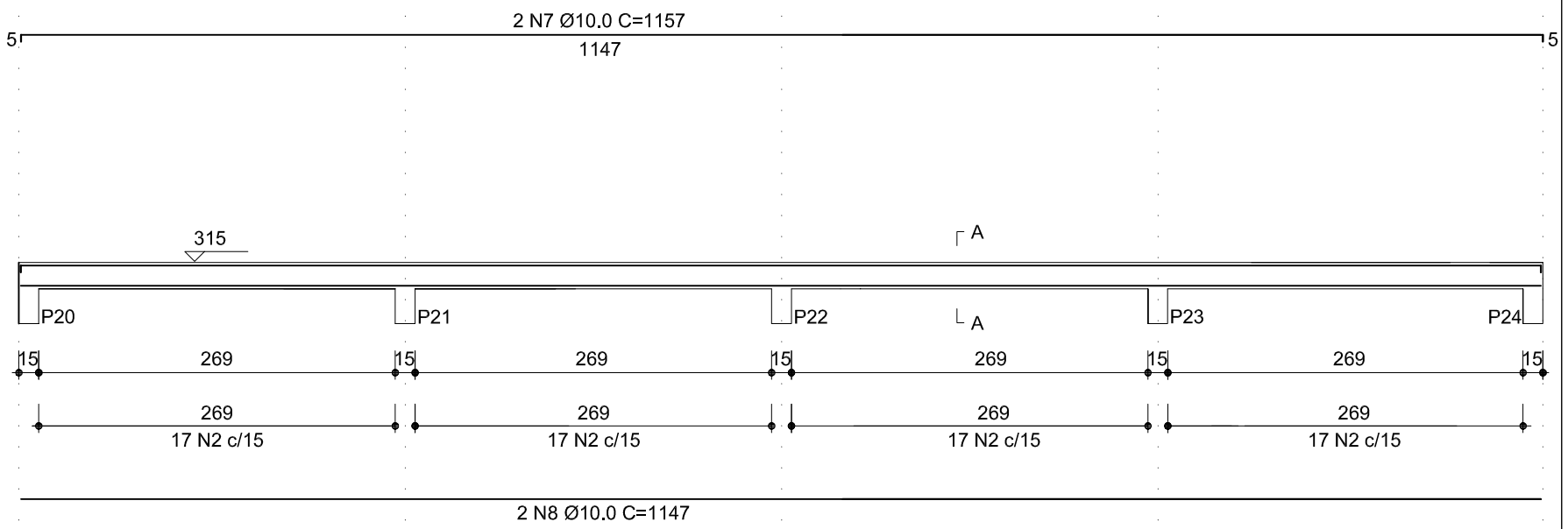


SEÇÃO A-A
ESC 1:25



32 N1 Ø5.0 C=89

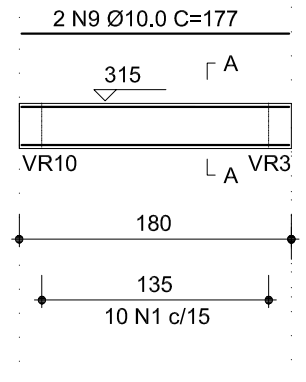
VR11
1:50



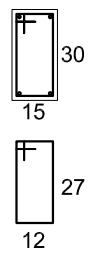
SEÇÃO A-A
ESC 1:25

68 N2 Ø5.0 C=69

VR12
1:50



SEÇÃO A-A
ESC 1:25



10 N1 Ø5.0 C=89

RELAÇÃO DO AÇO

V9
V12
V10
V11

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	87	89	7743
	2	5.0	68	69	4692
CA50	3	10.0	2	827	1654
	4	10.0	2	777	1554
	5	10.0	2	617	1234
	6	10.0	2	567	1134
	7	10.0	2	1157	2314
	8	10.0	2	1147	2294
	9	10.0	4	177	708
	10	12.5	1	250	250

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10.0	108.92	67.20
	12.5	2.5	2.41
CA60	5.0	124.35	19.15

PESO TOTAL	
CA50	69.61
CA60	23.93

Vol. concreto (fck=25Mpa) = 0,92m³

Área de forma total = 13,35 m²

OBRA/LOCAL:
Ampliação Unidade Básica de Saúde
Rua Valmi Pedroso Severo,Nº 01, Centro, Coxilha-RS

TÍTULO:
Projeto Estrutural

DESCRIÇÃO:
Vigas de Respaldo

PROPRIETÁRIO:
ILDO JOSÉ ORTH
PREFEITO MUNICIPAL

RESPONSÁVEL TÉCNICO:
MARCOS ANDRÉ MIOZZO ZAVODNIK
Eng. Civil CREA/RS 167892

ESCALA: Indicada

DATA: Agosto/2020

PRANCHA Nº: ES 11/12