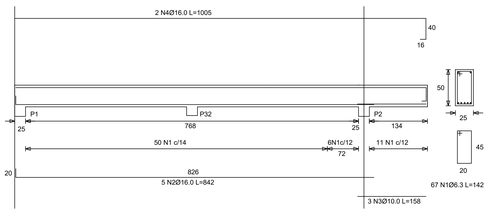
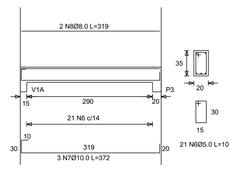
V50A



V50B



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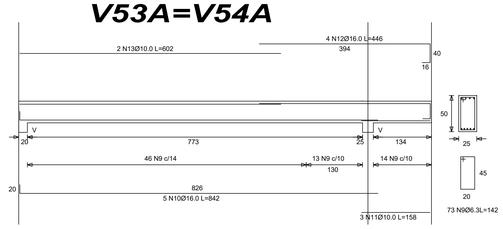

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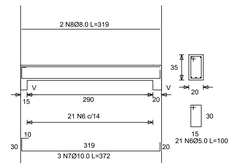
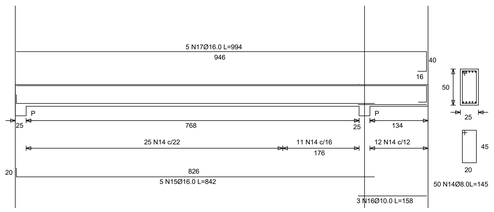
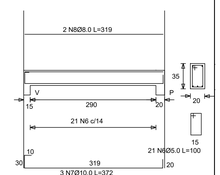


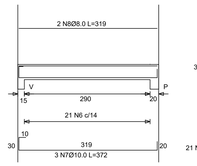
V55A



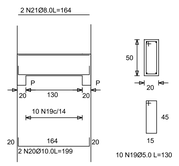
V55B



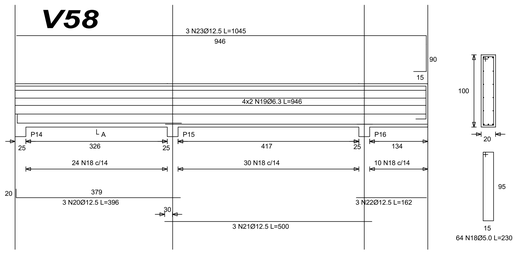
V56



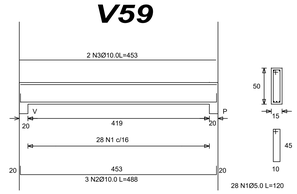
V57



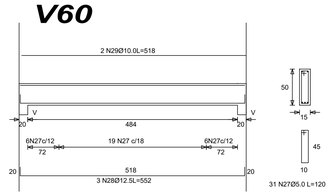
V58



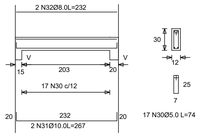
V59



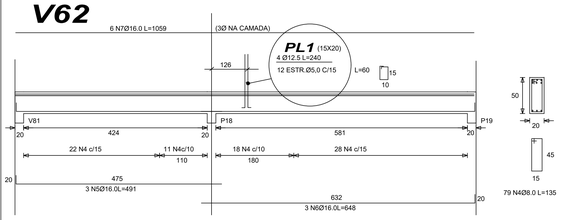
V60



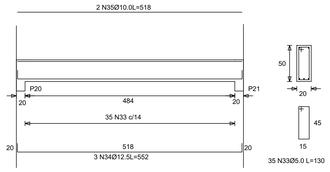
V61 (2x)



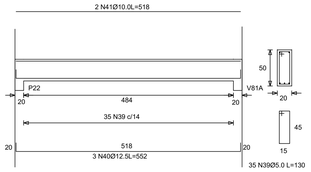
V62



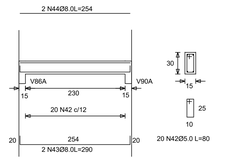
V63



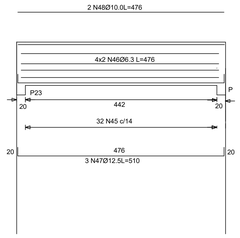
V64



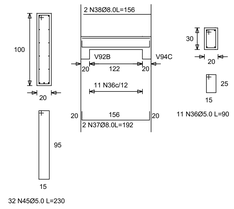
V65



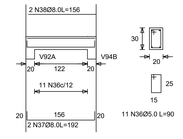
V66



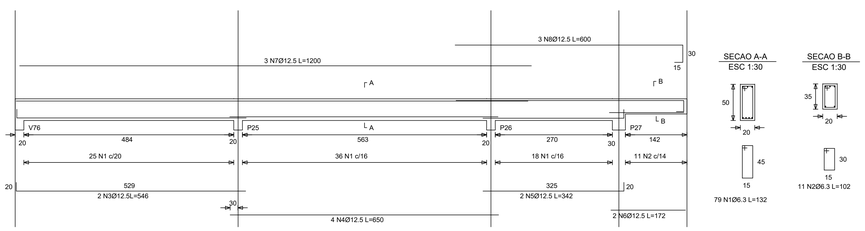
V67=V68



V70=V71 V72=V73



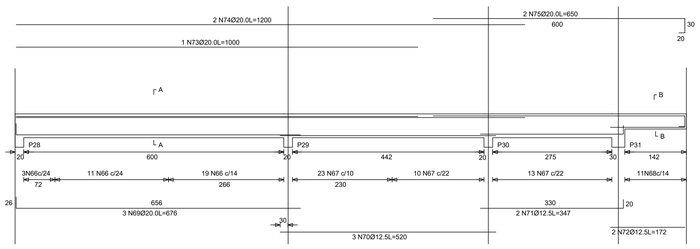
V69



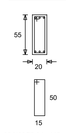
SECAO A-A
ESC 1:30

SECAO B-B
ESC 1:30

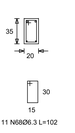
V74



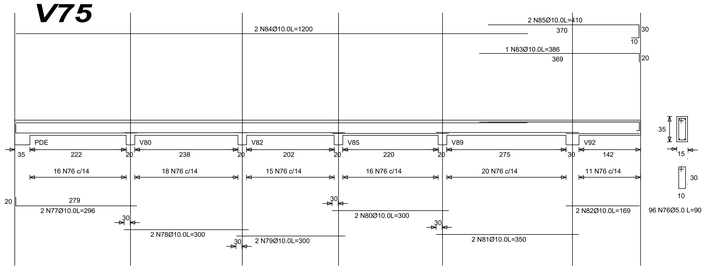
SECAO A-A



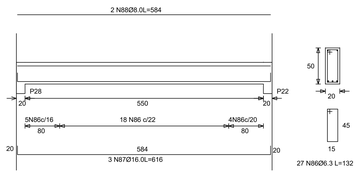
SECAO B-B



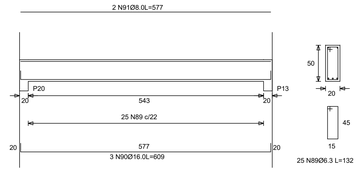
V75



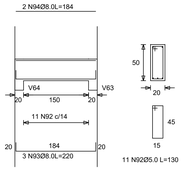
V76



V77



V78



QUANTIDADE DE AÇO			
#	m	kg	
5,0	751	121	CA–60
6,3	1116	279	CA–50
8,0	348	140	CA–50
10	365	230	CA–50
12,5	354	354	CA–50
16	630	1008	CA–50
20	68	170	CA–50

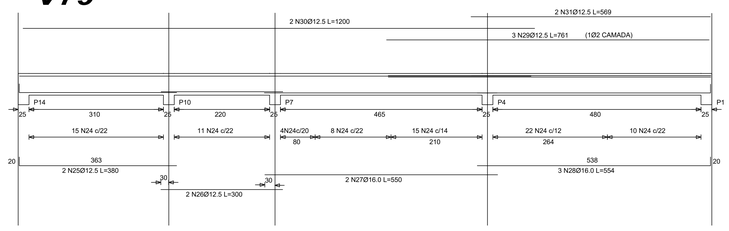
QUANTIDADE SEM QUEBRA

NOTAS:

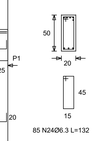
1- ACO CA-500A E CA-600B MPa.
2- CONCRETO fck = 30 MPa.=300kgf/cm2
3- MODULO ELASTICIDADE Einicial=30672MPa Esecante=26071MPa
4- MODULO ELASTICIDADE TRANSVERSAL = 0,4.ECs
5- NÃO UTILIZAR ADITIVOS A BASE DE CLORETOS
6- INICIO DO CARREGAMENTO=28 DIAS
7- ESTE TRABALHO NÃO CONTEMPLA PROJETO DE FORMAS E ESCORAMENTO
8- CONFERIR AS MEDIDAS EM OBRA.
9- ALVENARIAS EM TIJOLO CERÂMICO FURADO
10- CARGAS CONSIDERADAS NO PROJETO:
CARGAS ACIDENTAIS CONFORME NBR 6120
- ALVENARIAS DE TIJOLOS FURADOS: 13 KN/m3
- REVESTIMENTO DO PISO: 0.60 KN/m2
- REBOCO DA LAJE DE TETO: 0.15 KN/m2
- ENCHIMENTOS: 7KN/m3
- CONCRETO ARMADO: 25 KN/m3

CONCRETO fck=300kgf/cm2=30MPa

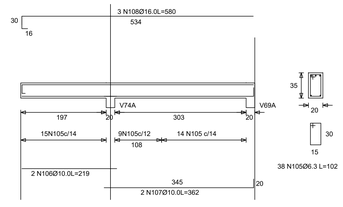
V79



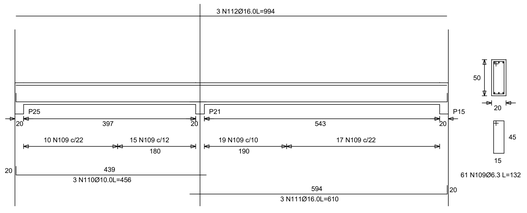
SECAO A-A
ESC 1:30



V80



V81



DATA	MODIFICAÇÃO

OBRA/LOCAL:
CÂMARA MUNICIPAL ARROIO DOS RATOS
ARROIO DOS RATOS - RS

PROJETO ESTRUTURAL CONCRETO ARMADO:

(AS BUILT)

ARMADURA DAS VIGAS (50A a 81).

PROJETISTA
Amélio Joaquim Borges Vargas - Engº Civil - CREA/RS 35.810

EXECUÇÃO

PROPRIETÁRIO

FORRO-VIGAS V50 A V81

ESCALA:	DATA:	PRANCHA:
INDICADA	JAN./2023	05

DESENHO: WICK