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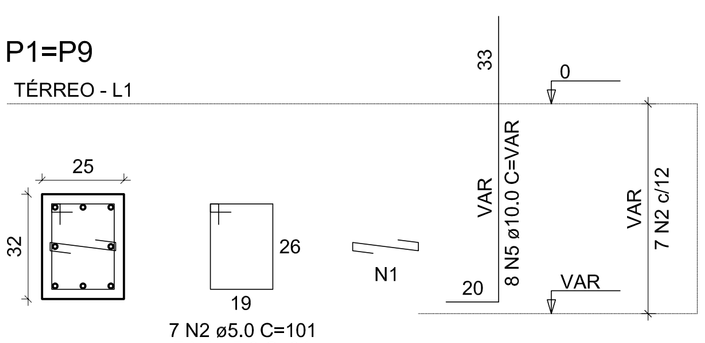
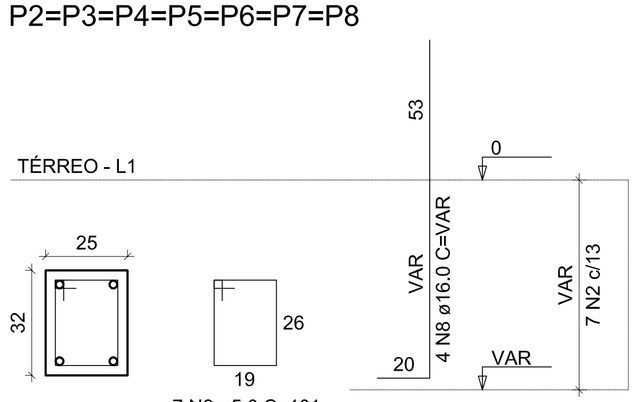
P1=P9



P2=P3=P4=P5=P6=P7=P8



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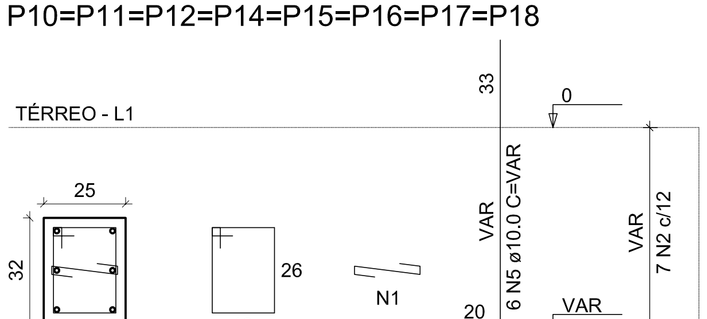
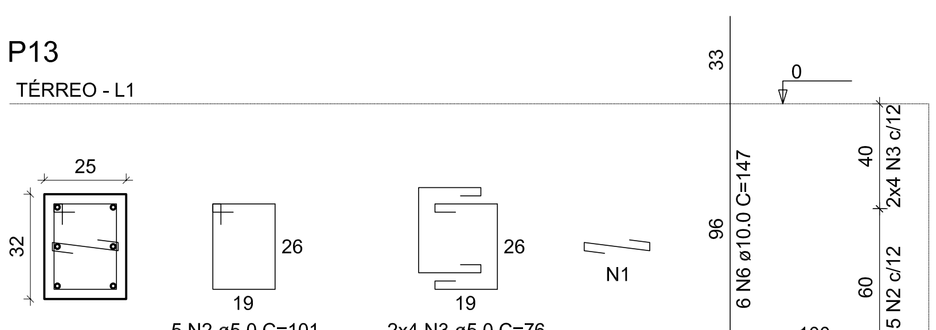


P13



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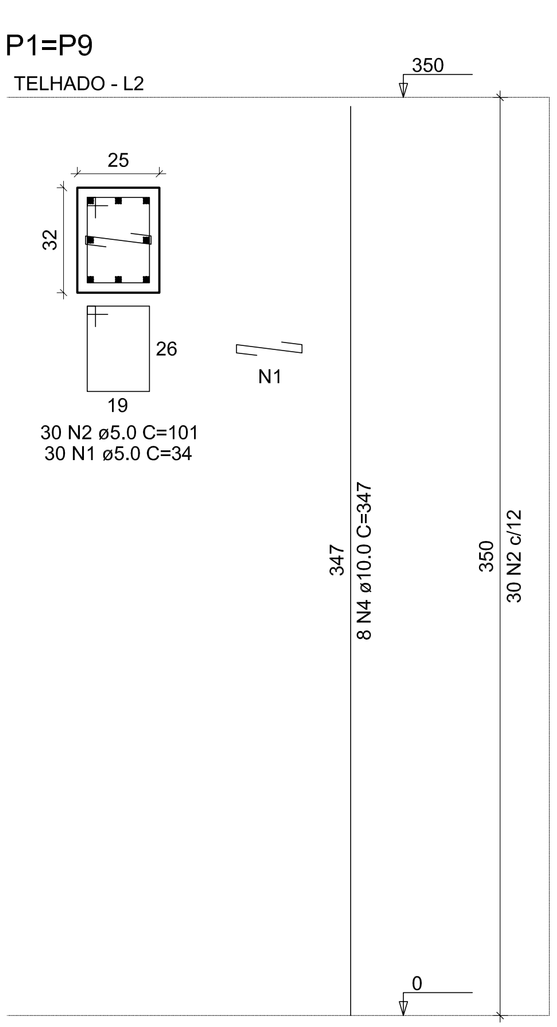
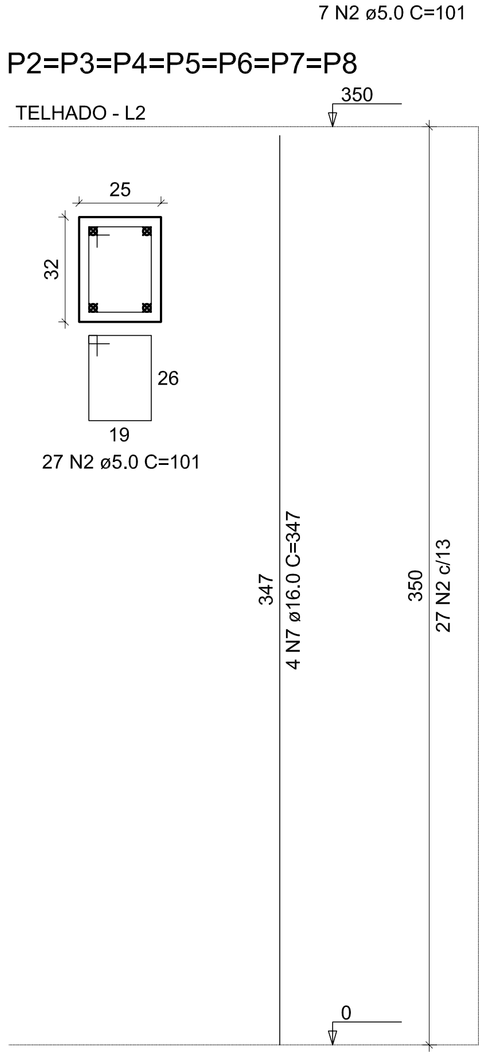


P2=P3=P4=P5=P6=P7=P8



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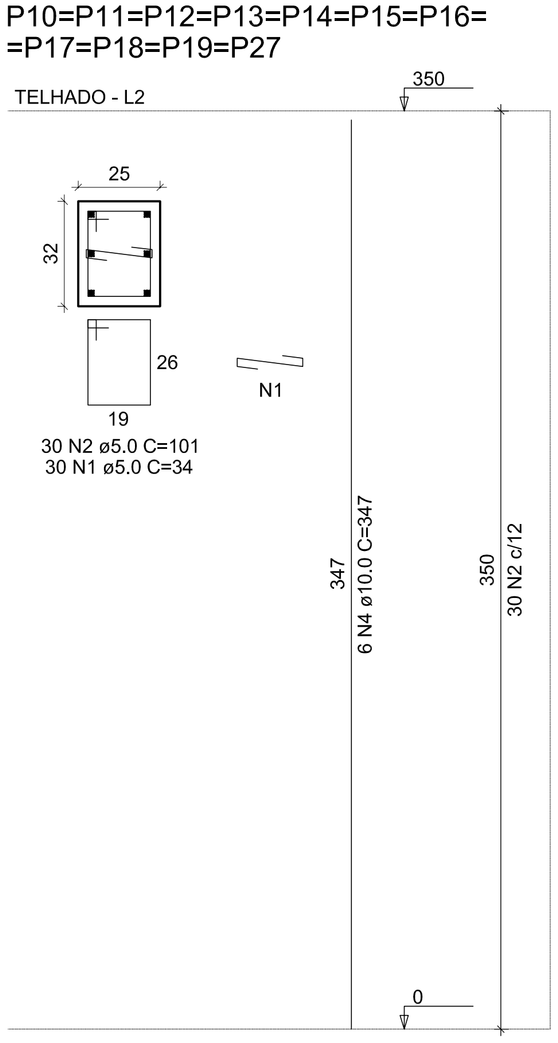

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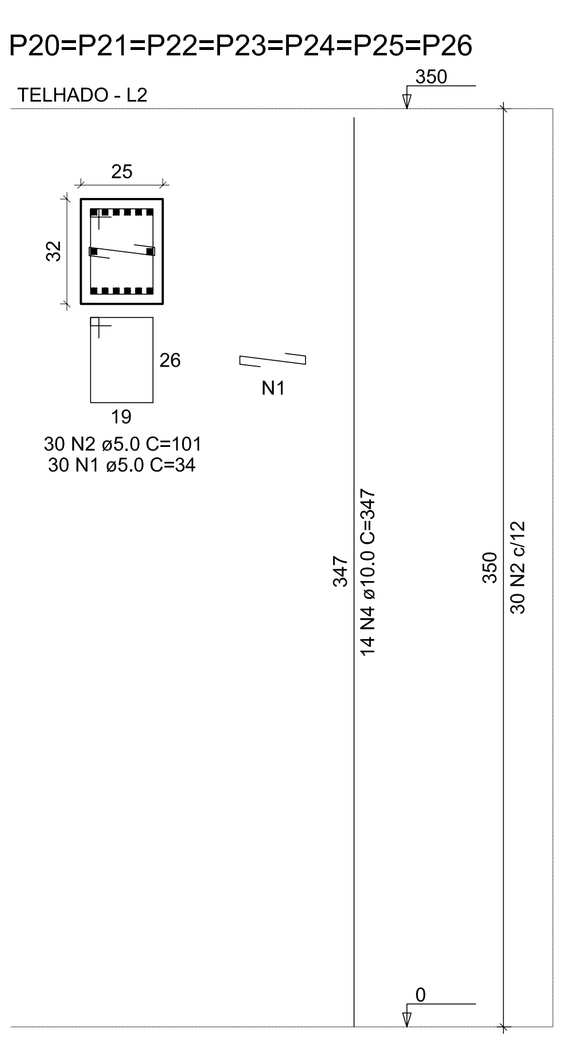

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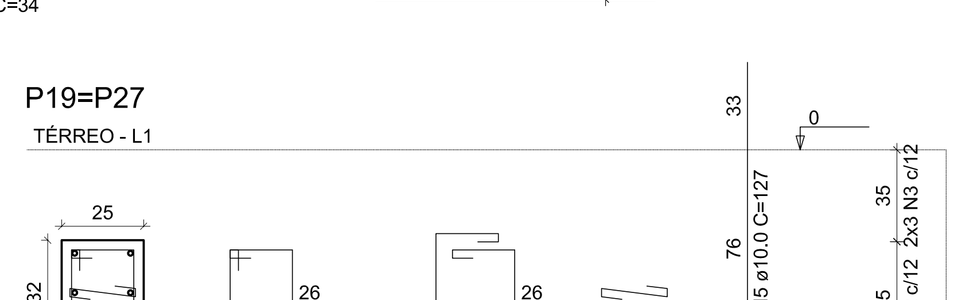

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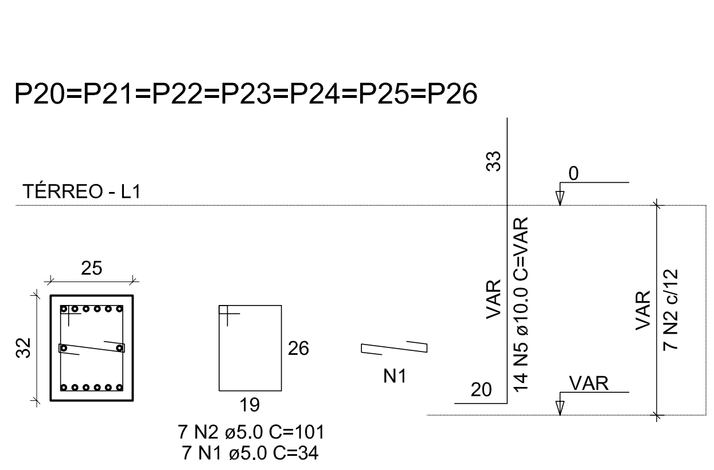

RELAÇÃO DO AÇO

2xP1-L2
7xP2-L1
P13-L1
7xP20-L1
2xP1-L1
11xP10-L2
2xP19-L1
7xP2-L2
8xP10-L1
7xP20-L2

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	742	34	25228
	2	5.0	970	101	97970
	3	5.0	20	76	1520
CA50	4	10.0	180	347	62460
	5	10.0	174	VAR	VAR
	6	10.0	6	147	882
	7	16.0	28	347	9716
	8	16.0	28	VAR	VAR

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	854.4	579.4
	16.0	137.8	239.2
CA60	5.0	1247.2	211.5
PESO TOTAL (kg)			
CA50	818.6		
CA60	211.5		

Volume de concreto (C-30) = 9.30 m³
Área de forma = 132.58 m²

REVISÃO	DESCRIÇÃO:	RESPONSÁVEL:	APROVAÇÃO:	DATA:

INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
RIO GRANDE DO SUL

CAMPUS ROLANTE
RS 239
Estrada Taquara Rolante
ROLANTE/RS

ASSUNTO: PROJETO ESTRUTURAL

OBRA: GALPÃO E CENTRO DE MANEJO
CONTEÚDO: PILARES

PROJETO:
MICHEL LIMA LEVIEN
Engenheiro Civil - CREA 202818
EXECUÇÃO:
PROPRIETÁRIO:
INSTITUTO FEDERAL DO RIO GRANDE DO SUL - dpo@ifrs.edu.br

ARQUIVO:
ESCALA: SEM ESCALA
ÁREA CONSTRUÍDA:
DESENHO: TAYNE
PRANCHA: 04
DATA: JAN/21

FORMATO A1

USAR ESPESSURAS ABAIXO EM PRETO

Cor des.	Esp. (mm)	Cor des.
1	0,1	07
2	0,2	07
3	0,3	07
4	0,4	07
5	0,5	07
6	0,6	07
7	0,2	07
8	0,1	07
9	0,1	07

USAR ESPESSURAS ABAIXO EM CORES

10	0,15	01
20	0,15	02
30	0,15	03
40	0,15	04
50	0,15	05
130	0,15	04
120	0,15	03
220	0,15	06

USAR ESPESSURAS ABAIXO EM CINZA

250	0,15	018
251	0,15	018
252	0,15	018
253	0,15	018
254	0,15	018
255	0,15	018

PLOTAR: 1/1

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