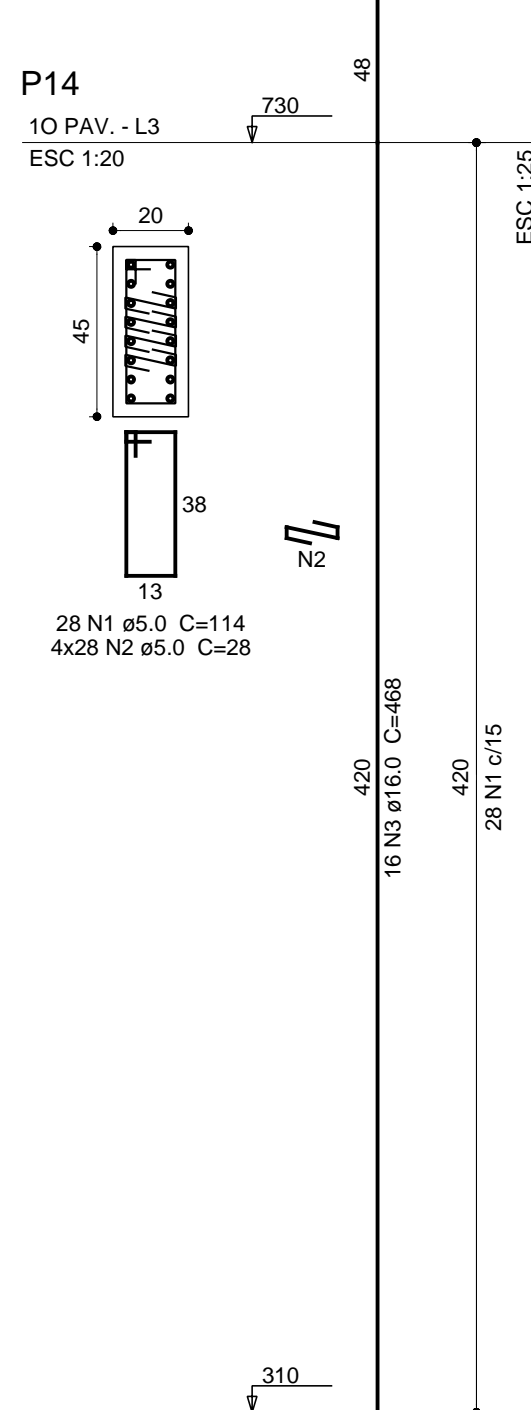
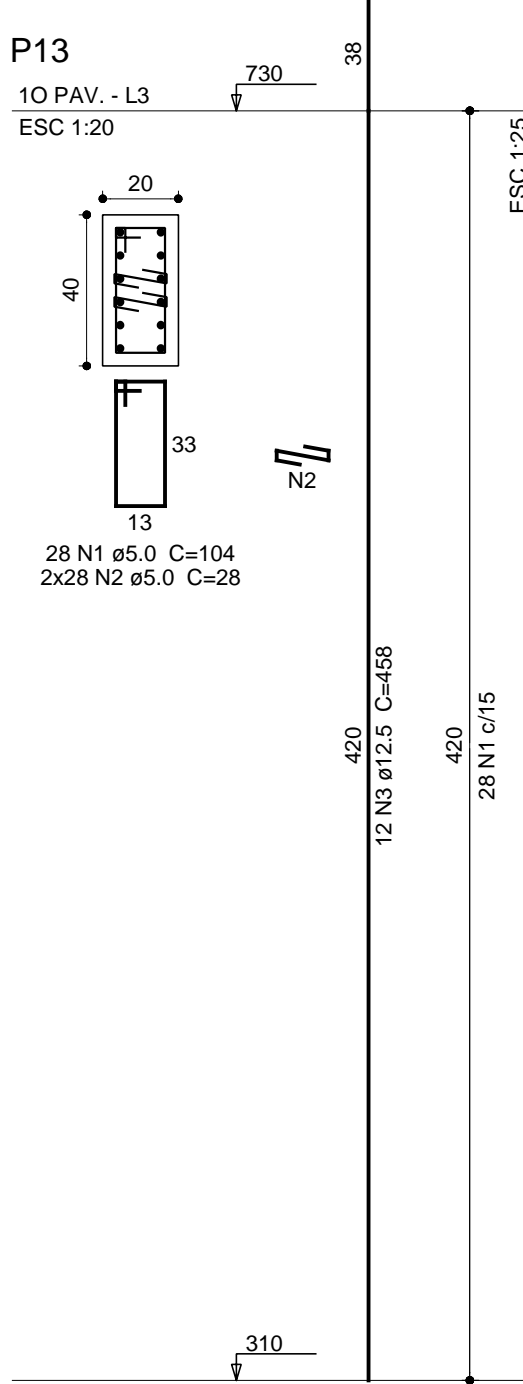
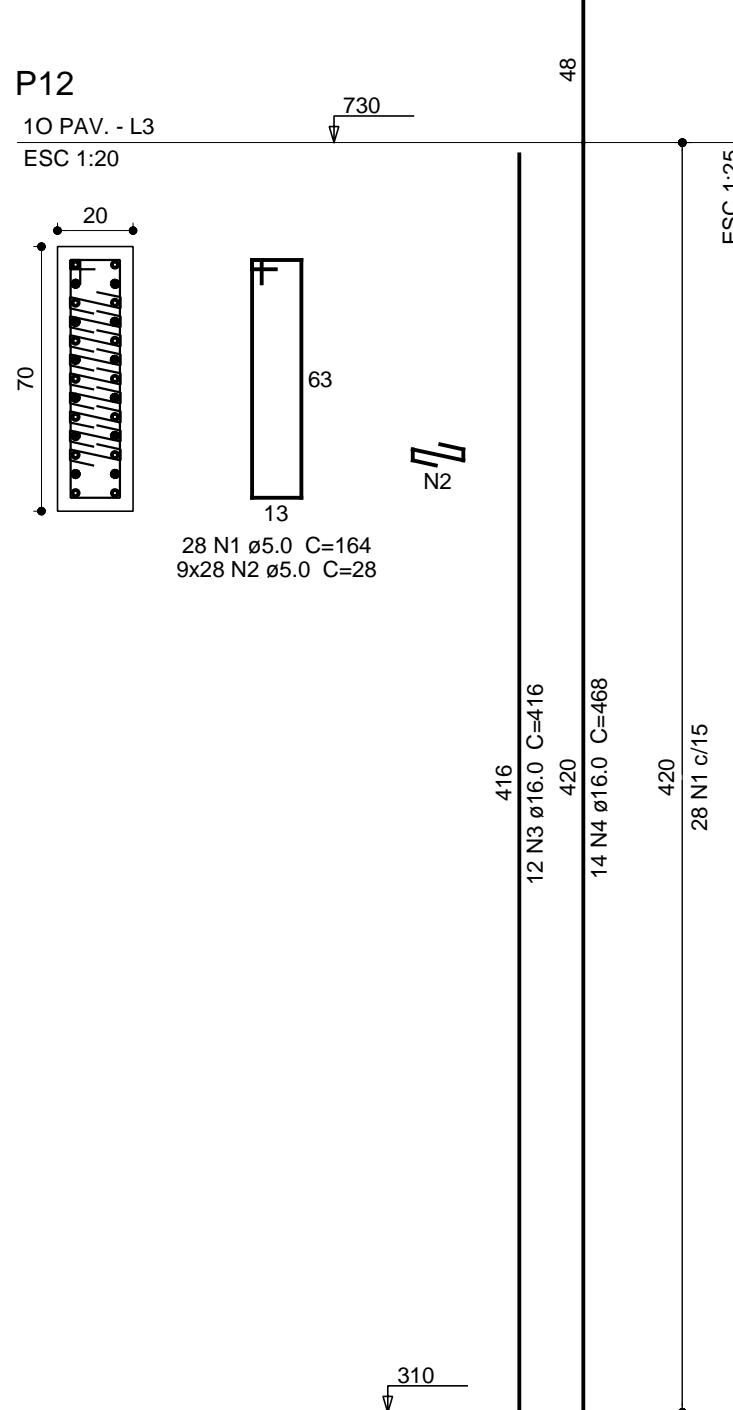
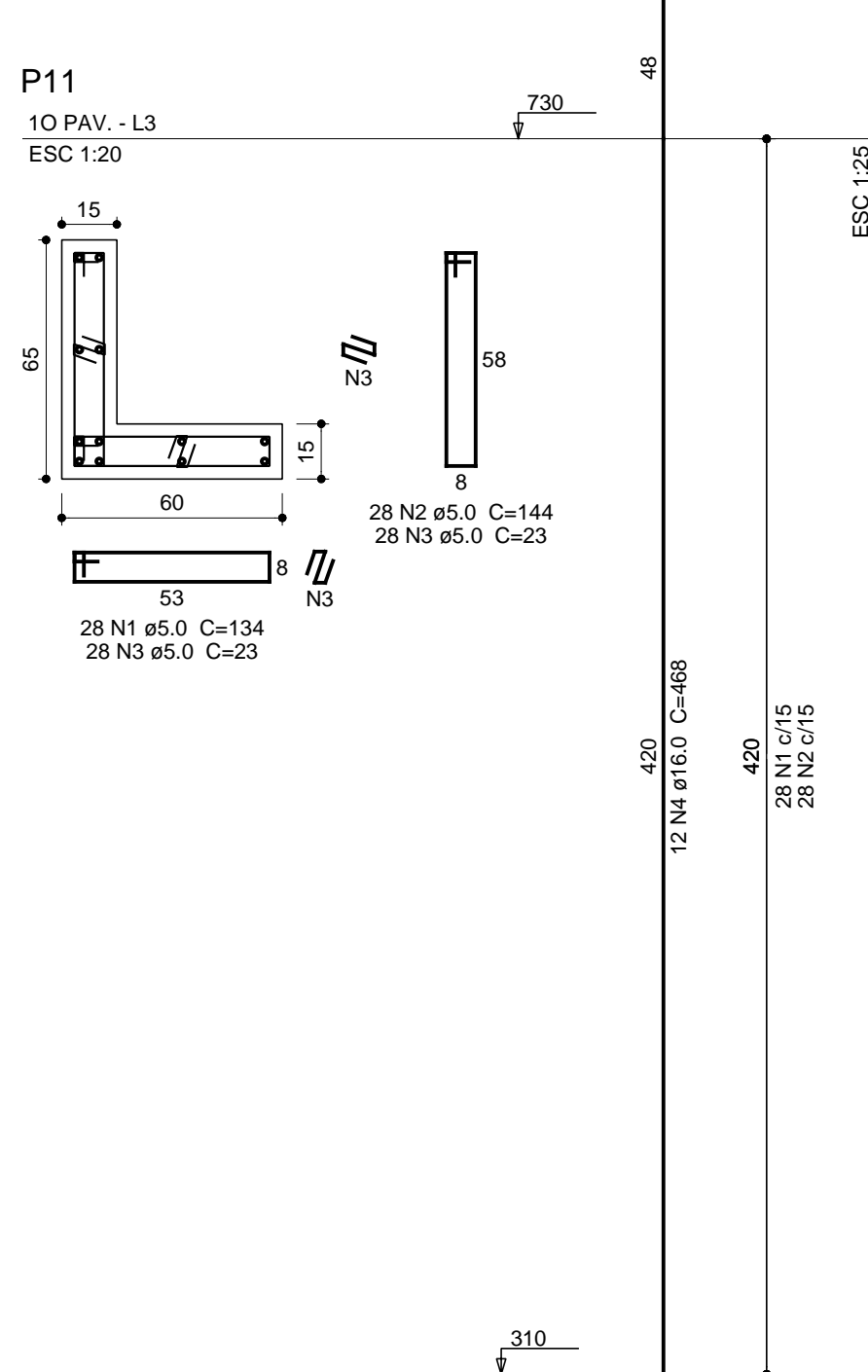
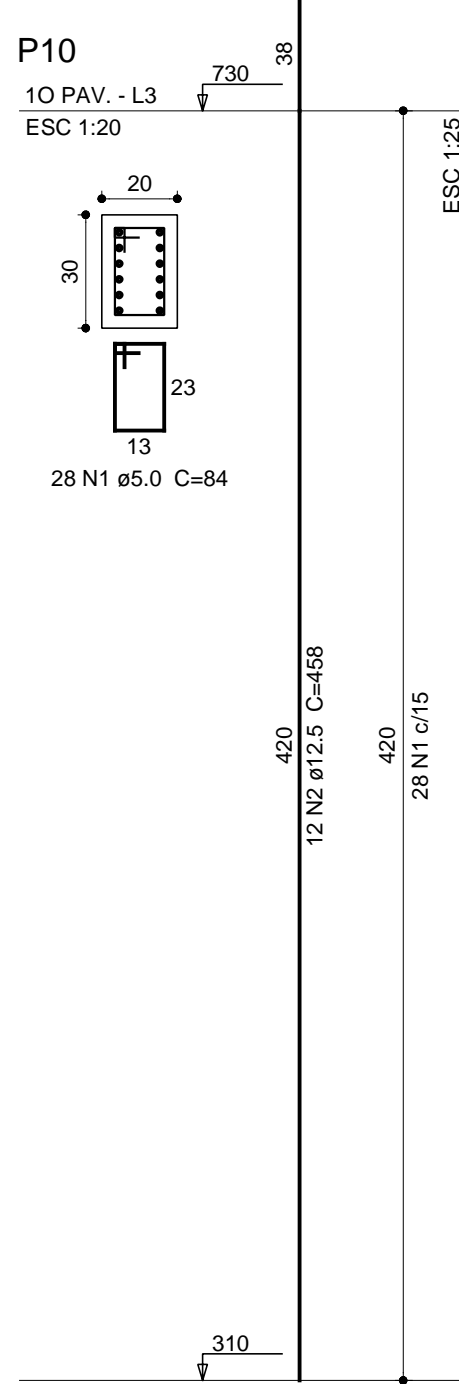
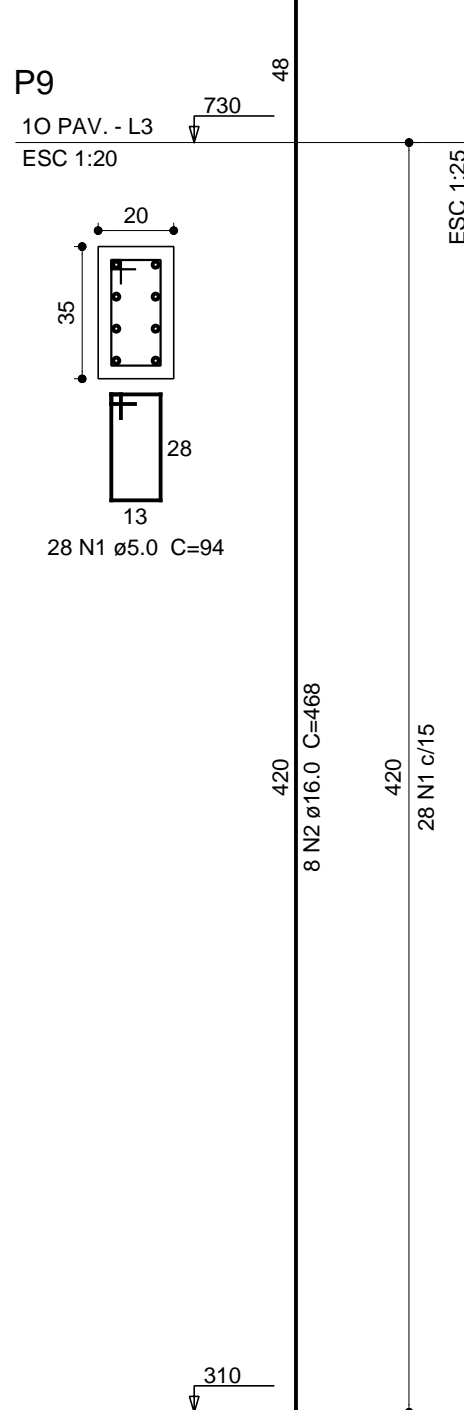
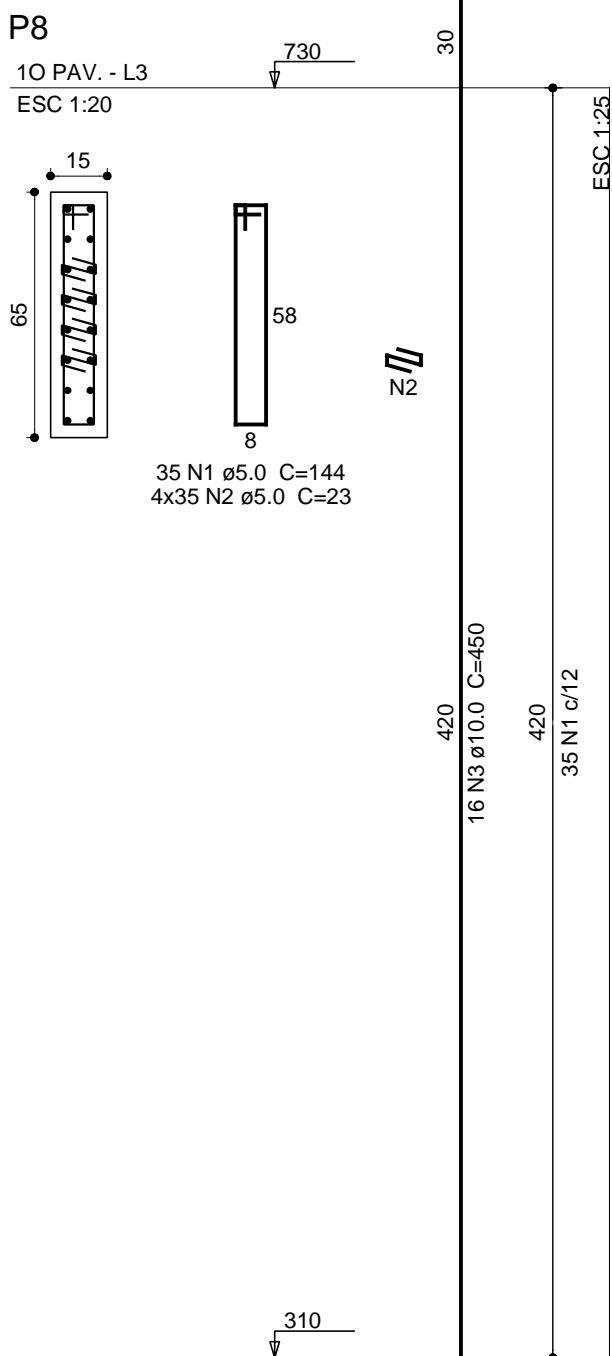
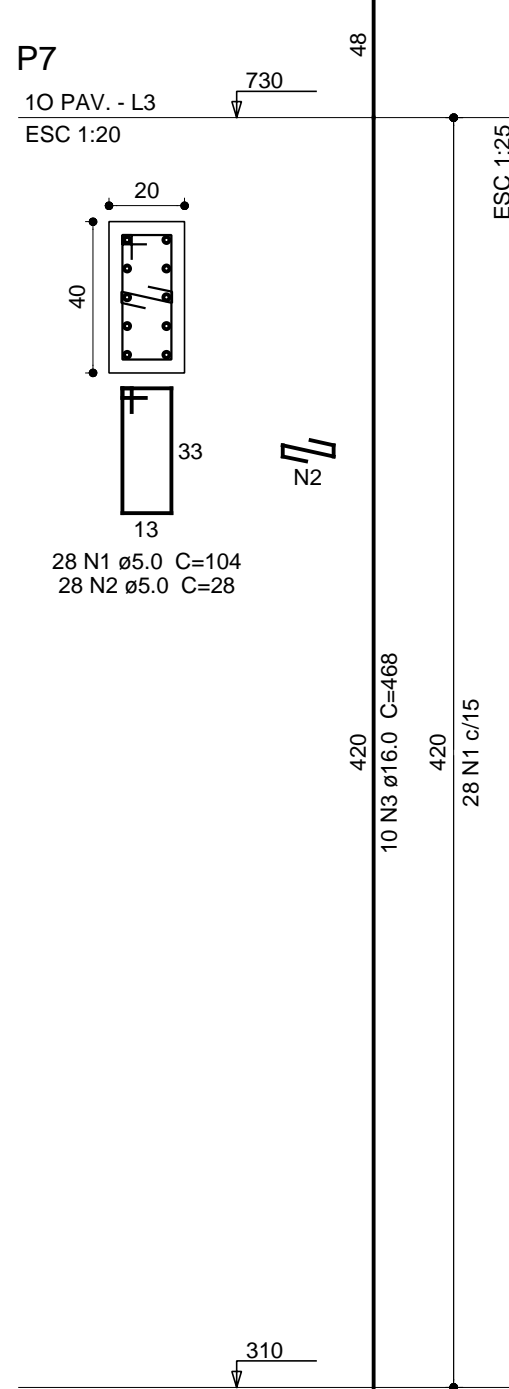
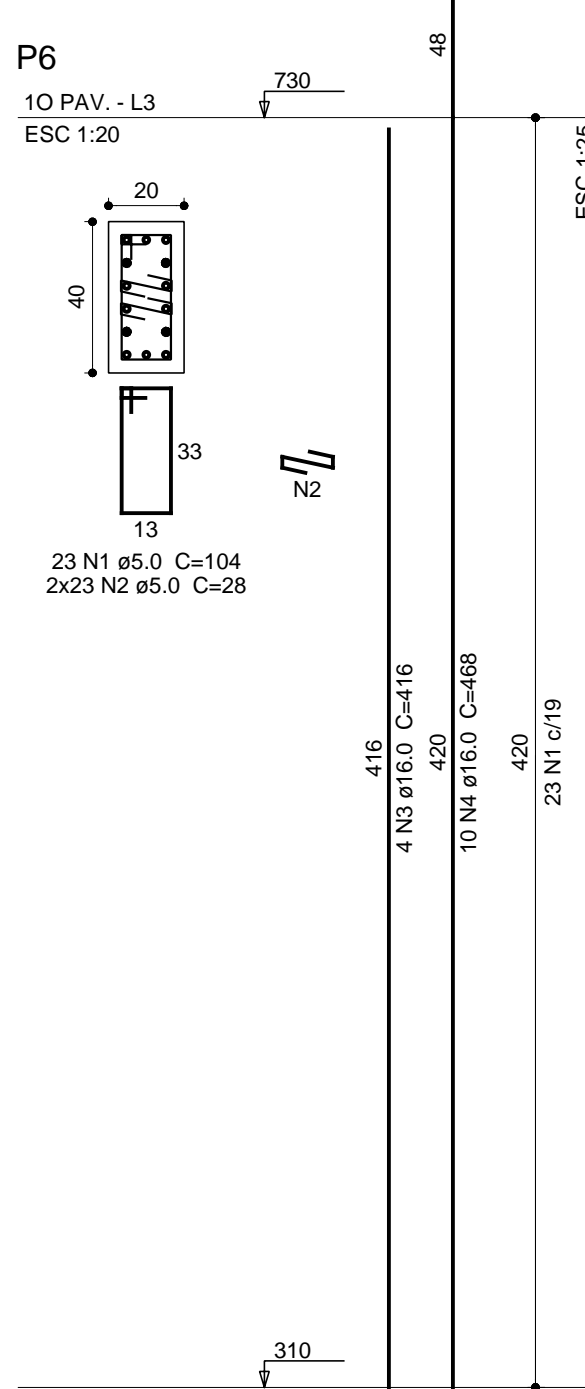
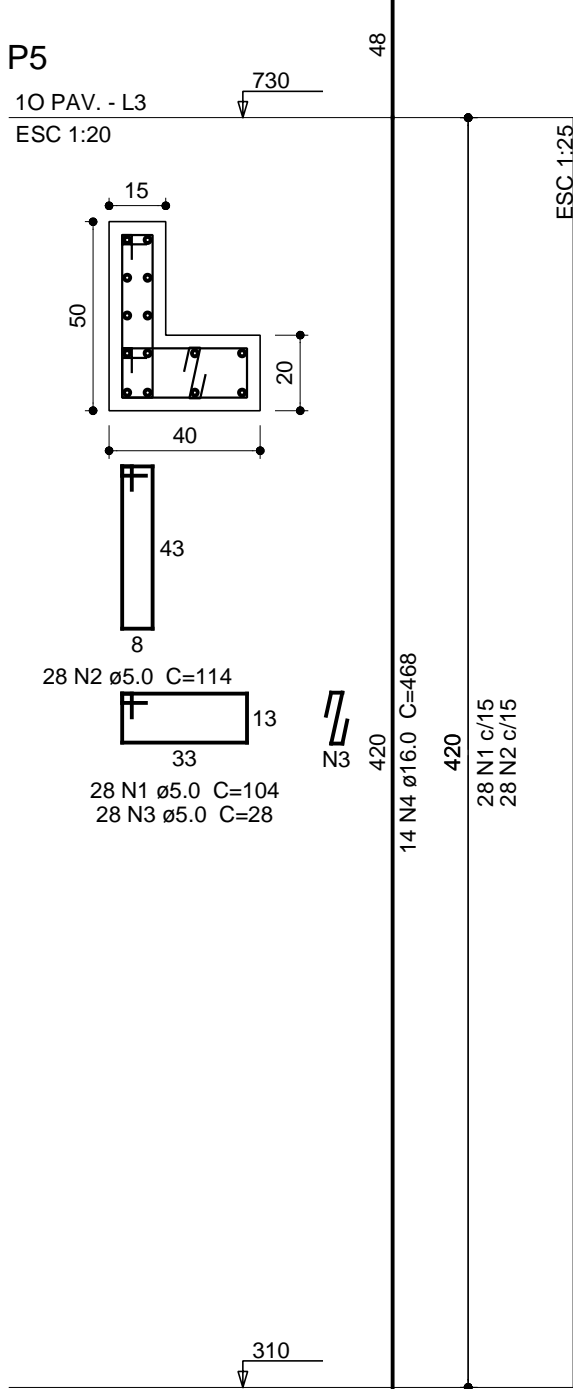
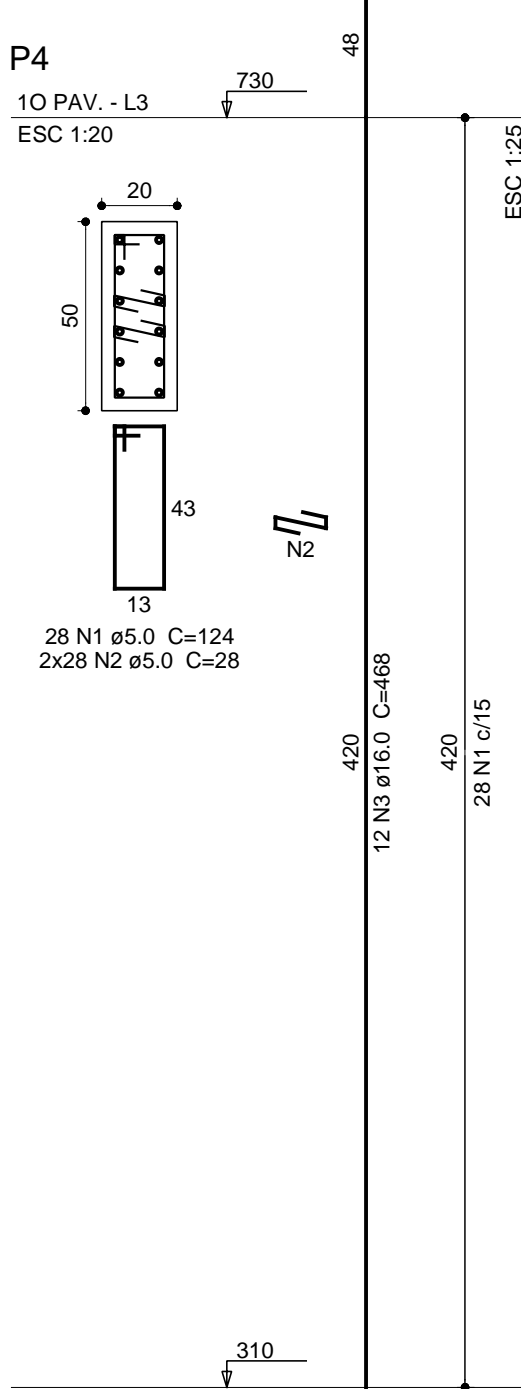
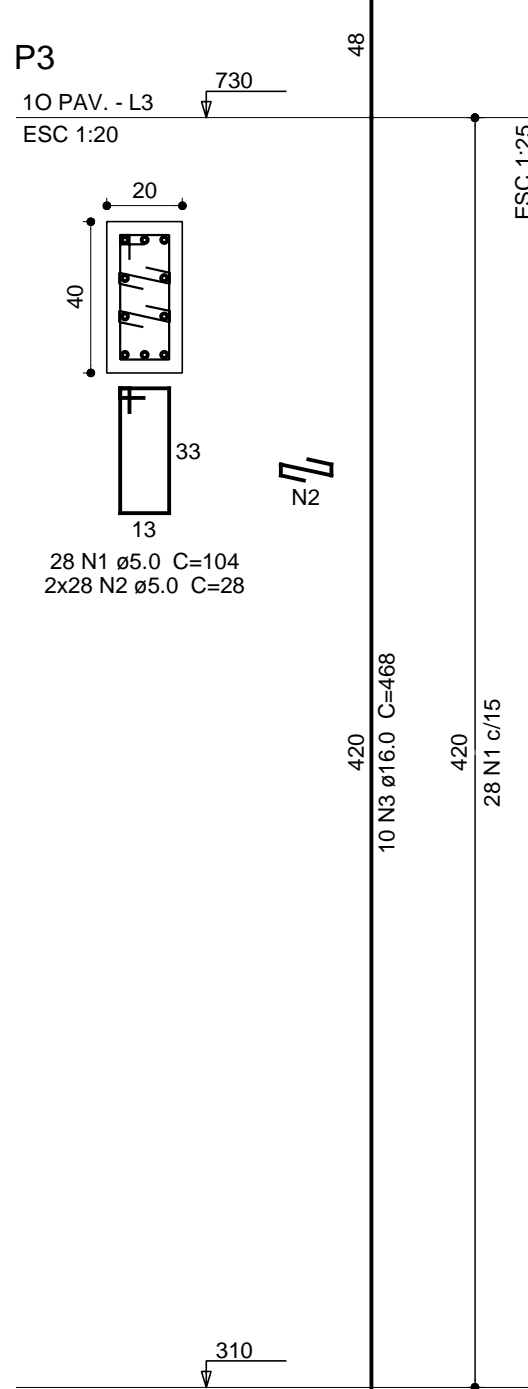
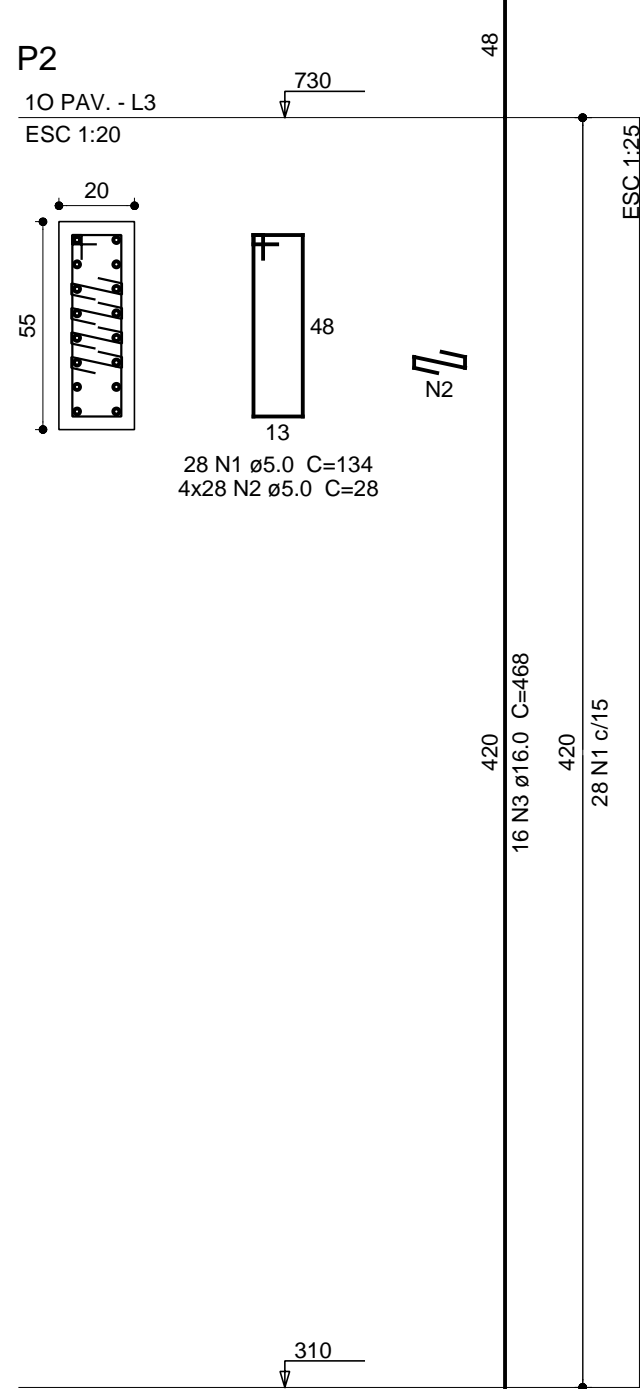
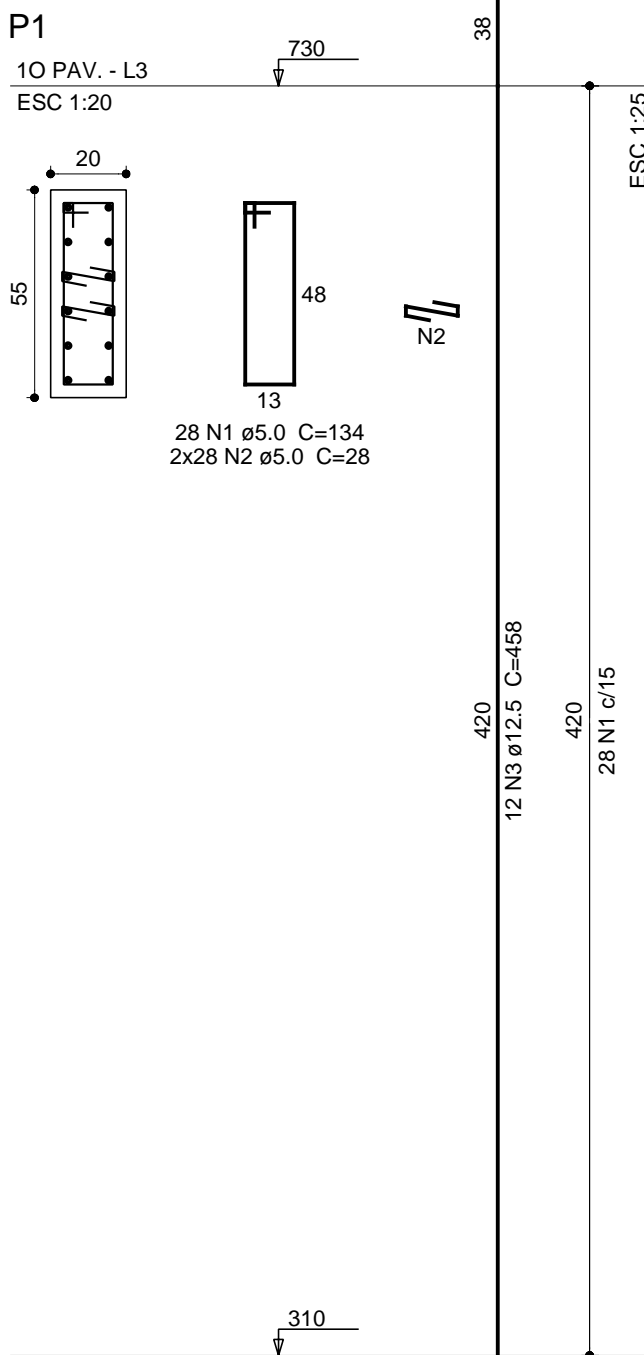


| PENAS | |
|---------|-------------|
| RED | 0.1mm BLACK |
| YELLOW | 0.2mm BLACK |
| GREEN | 0.3mm BLACK |
| CYAN | 0.4mm BLACK |
| BLUE | 0.5mm BLACK |
| MAGENTA | 0.6mm BLACK |
| 10 | 0.1mm 10 |
| 42 | 0.1mm 42 |
| 98 | 0.1mm 98 |
| 156 | 0.1mm 156 |
| 160 | 0.2mm 160 |
| 254 | 0.1mm 254 |



Relação do aço

| ELEMENTO | AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|----------|------|---|-----------|-------|-------------|--------------|
| P1 | CA60 | 1 | 5.0 | 28 | 134 | 3752 |
| | CA60 | 2 | 5.0 | 56 | 28 | 1568 |
| P2 | CA50 | 3 | 12.5 | 12 | 458 | 5496 |
| | CA60 | 1 | 5.0 | 28 | 134 | 3752 |
| P3 | CA60 | 2 | 5.0 | 112 | 28 | 3136 |
| | CA50 | 3 | 16.0 | 16 | 468 | 7488 |
| P4 | CA60 | 1 | 5.0 | 28 | 104 | 2912 |
| | CA60 | 2 | 5.0 | 56 | 28 | 1568 |
| P5 | CA50 | 3 | 16.0 | 12 | 468 | 5616 |
| | CA60 | 1 | 5.0 | 28 | 104 | 2912 |
| P6 | CA60 | 3 | 5.0 | 28 | 28 | 784 |
| | CA50 | 4 | 16.0 | 14 | 468 | 6552 |
| P7 | CA60 | 1 | 5.0 | 23 | 104 | 2392 |
| | CA60 | 2 | 5.0 | 46 | 28 | 1288 |
| P8 | CA50 | 3 | 16.0 | 4 | 416 | 1664 |
| | CA50 | 4 | 16.0 | 10 | 468 | 4680 |
| P9 | CA60 | 1 | 5.0 | 28 | 104 | 2912 |
| | CA60 | 2 | 5.0 | 28 | 28 | 784 |
| P10 | CA60 | 1 | 5.0 | 28 | 84 | 2352 |
| | CA50 | 2 | 12.5 | 12 | 458 | 5496 |
| P11 | CA60 | 1 | 5.0 | 28 | 134 | 3752 |
| | CA60 | 2 | 5.0 | 28 | 144 | 4032 |
| P12 | CA60 | 3 | 5.0 | 56 | 23 | 1288 |
| | CA50 | 4 | 16.0 | 12 | 468 | 5616 |
| P13 | CA60 | 1 | 5.0 | 28 | 164 | 4592 |
| | CA60 | 2 | 5.0 | 252 | 28 | 7056 |
| P14 | CA50 | 3 | 16.0 | 12 | 416 | 4992 |
| | CA50 | 4 | 16.0 | 14 | 468 | 6552 |
| P14 | CA60 | 1 | 5.0 | 28 | 104 | 2912 |
| | CA60 | 2 | 5.0 | 56 | 28 | 1568 |
| P14 | CA50 | 3 | 12.5 | 12 | 458 | 5496 |
| | CA60 | 1 | 5.0 | 28 | 114 | 3192 |
| P14 | CA60 | 2 | 5.0 | 112 | 28 | 3136 |
| | CA50 | 3 | 16.0 | 16 | 468 | 7488 |

Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO (kg) |
|-----------------|-----------|-------------|-----------|
| CA50 | 10.0 | 72 | 44.4 |
| | 12.5 | 164.9 | 158.8 |
| | 16.0 | 637.6 | 1006.2 |
| CA60 | 5.0 | 807.7 | 124.5 |
| PESO TOTAL (kg) | | | |
| CA50 | 1209.4 | | |
| CA60 | 124.5 | | |

Volume de concreto (C35) = 5.83 m³
Área de forma = 85.26 m²



ESTEL ENGENHARIA
Rua José Quirino, 147 - São João - CEP 86305-060 - Itajaí-SC
Tel: (047) 3046-2001 - Fax: (047) 3046-2004
estel@estelengenharia.com.br - www.estelengenharia.com.br

PROJETO N°

1280/16

PROJETO

ESTRUTURAL



CLIENTE
MUNICÍPIO DE PARANAGUÁ

PROJETO
PRÉDIO ADM. DA PREFEITURA DE PARANAGUÁ

CONTEÚDO
ARMAÇÃO DOS PILARES DO 1º PAVIMENTO

PRANCHA N°

36/75

RESPONSÁVEL TÉCNICO

SÉRGIO LUIZ DO AMARAL LOZOVEY
CREA/SC 13708-0

PROPRIETÁRIO

PREFEITURA DE PARANAGUÁ
UNIDADE DE GERENCIAMENTO DE PROGRAMAS

AUTOR DO PROJETO

CAD

DATA

REVISÃO

CONTROLE DE PROJETOS

SÉRGIO LOZOVEY

ARLINE DEPINÉ

03/2016

00

PROJETO DEFINITIVO (x)

ÁREA

VERIFICAÇÃO

ESCALA

ARQUIVO

PROJETO NÃO DEFINITIVO ()

1.850,00 m²

RENATO REIS

IND.

1280-EST-36-R0