

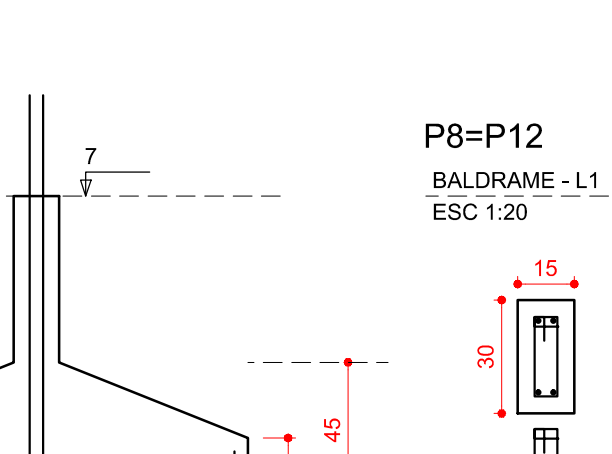
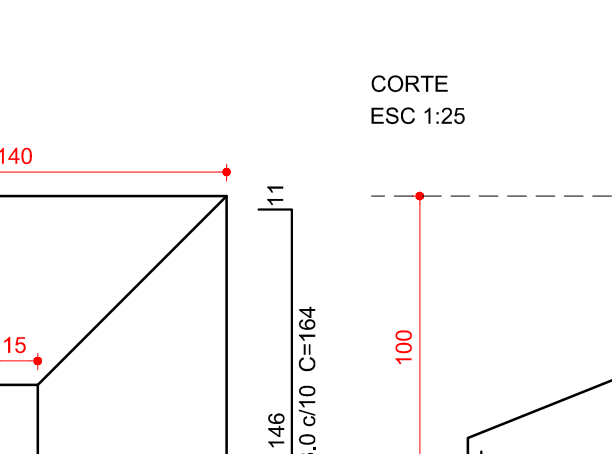
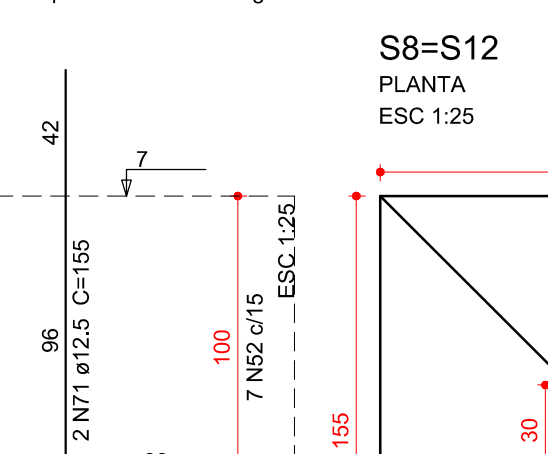
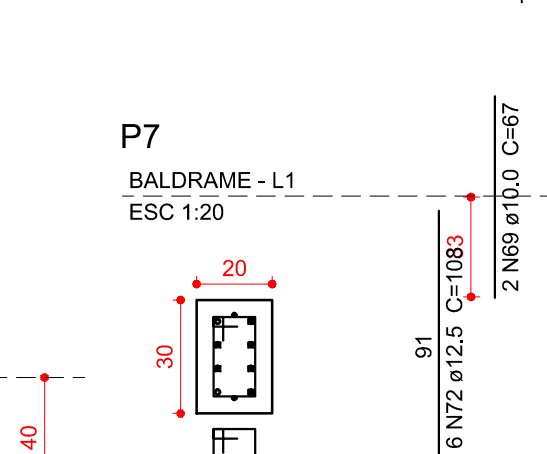
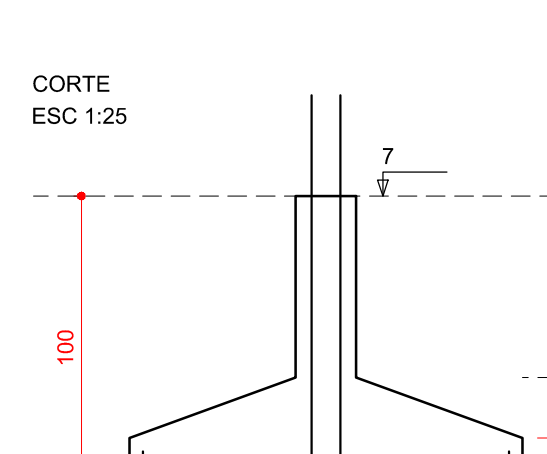
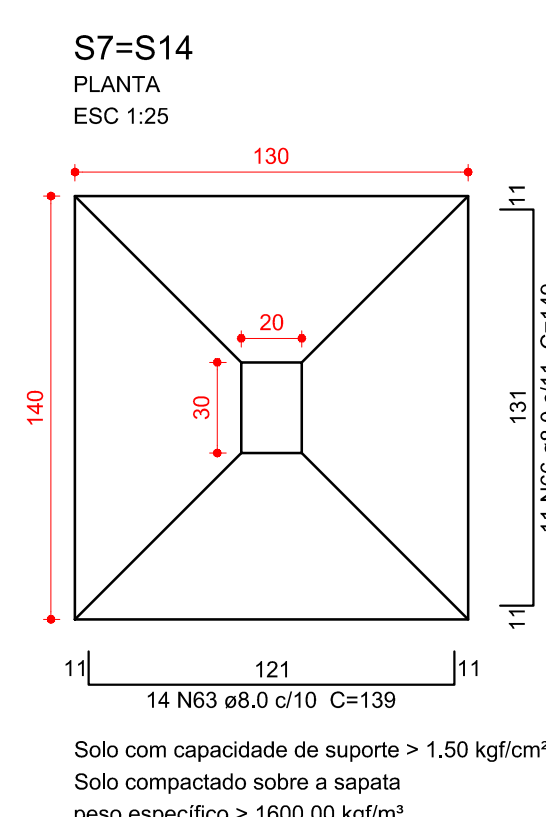
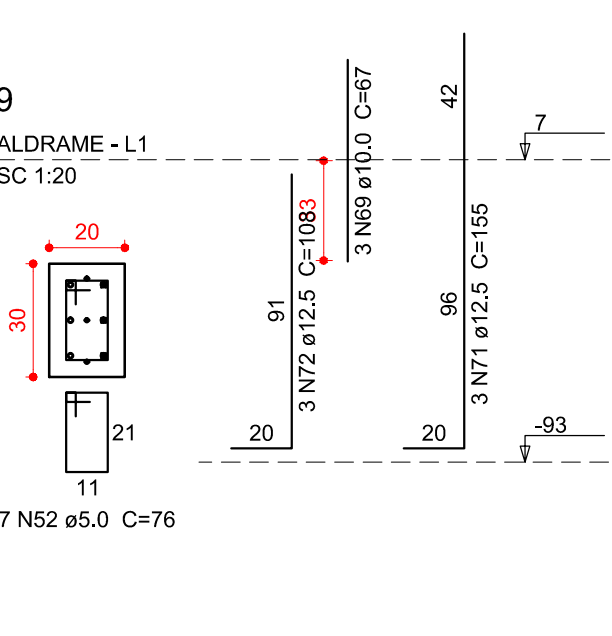
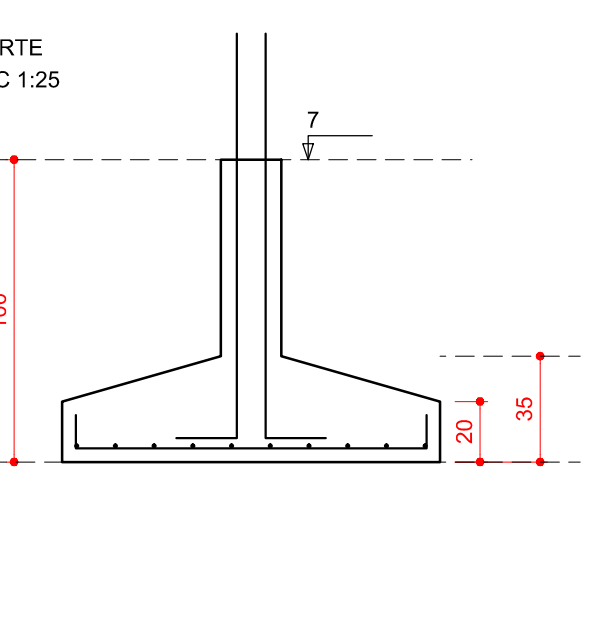
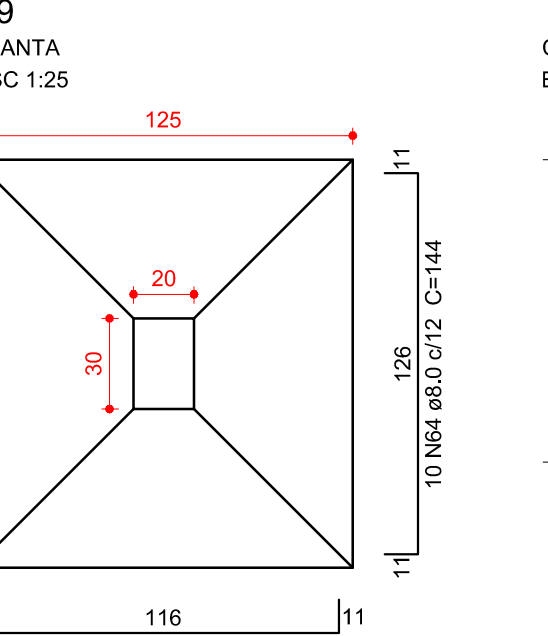
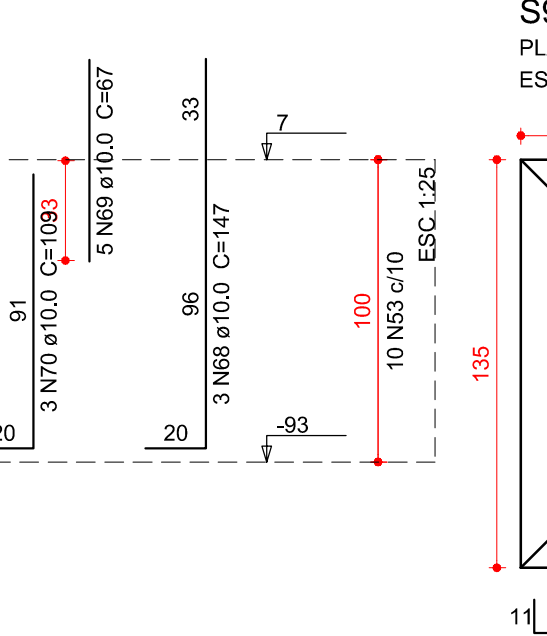
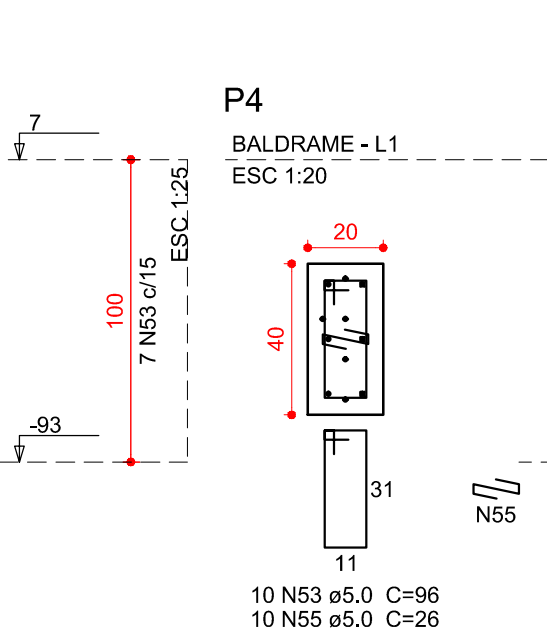
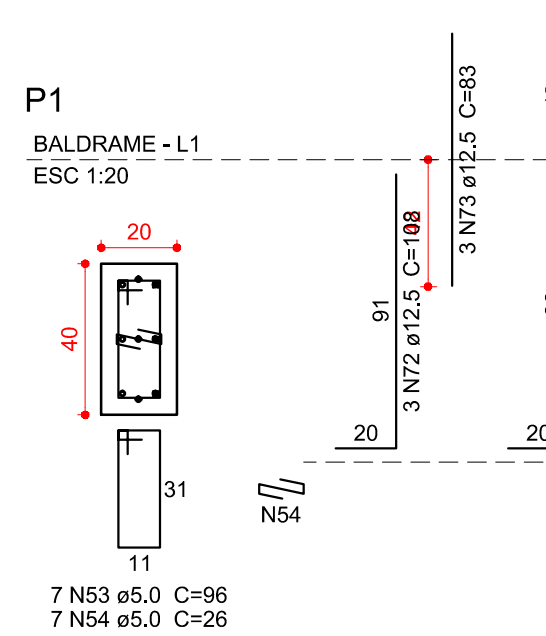
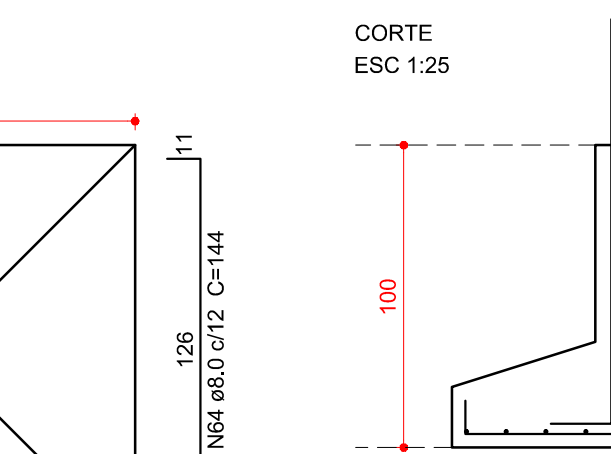
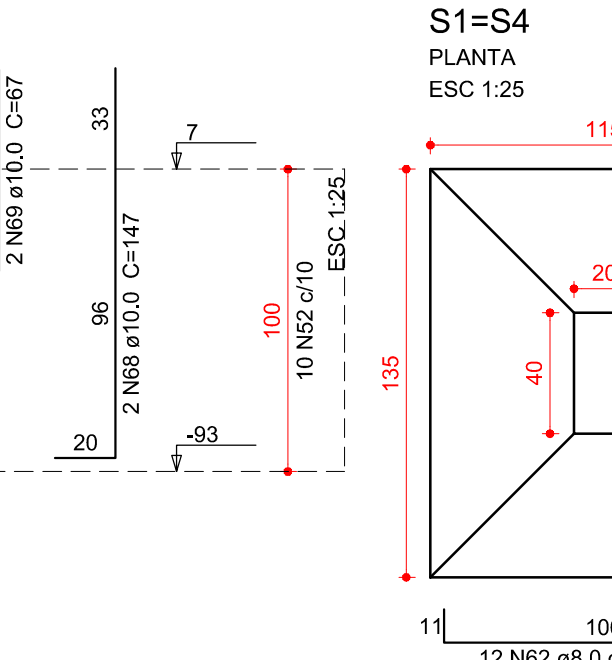
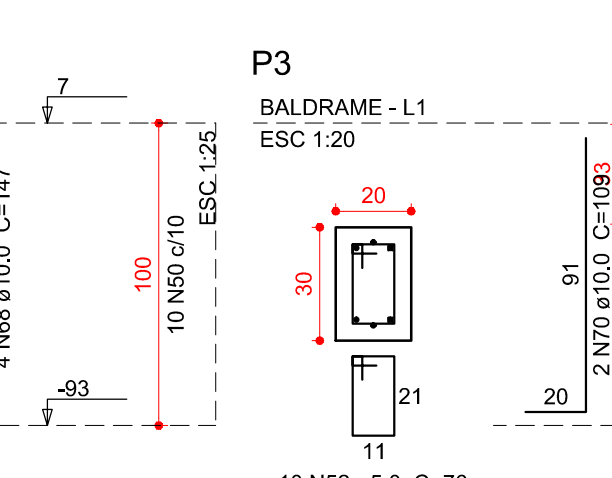
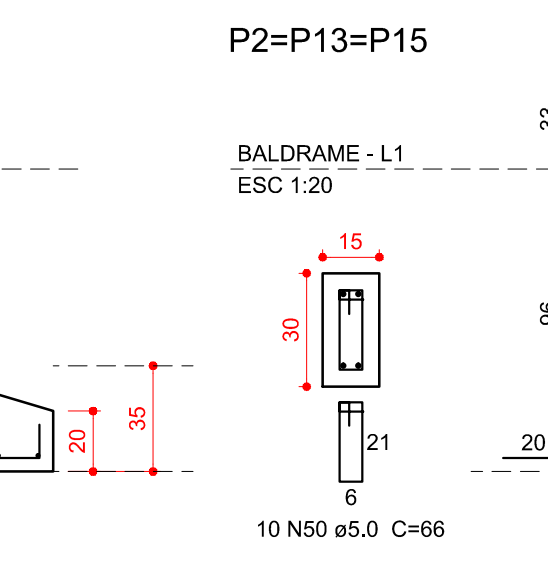
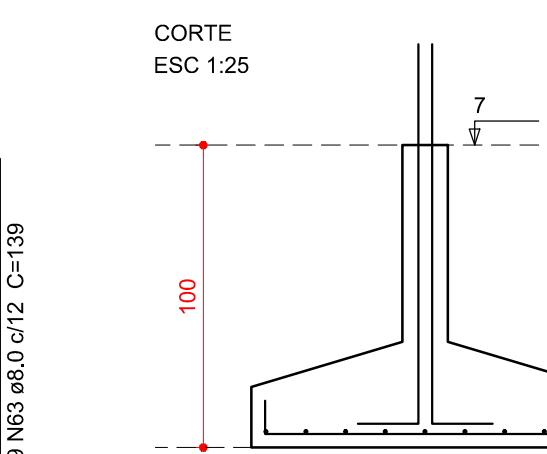
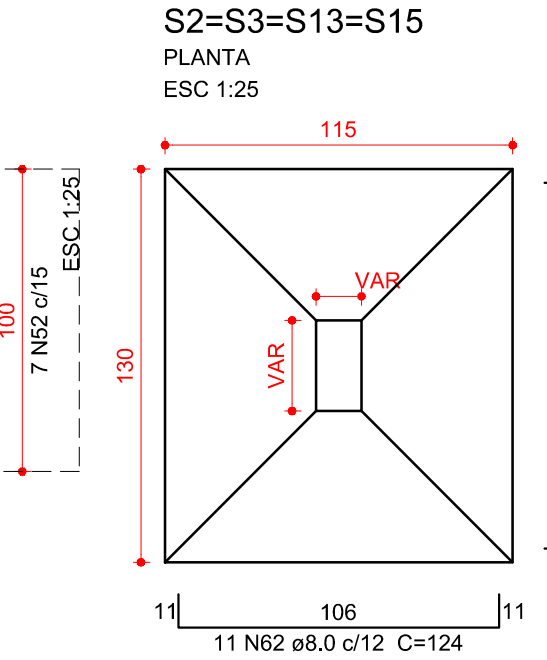
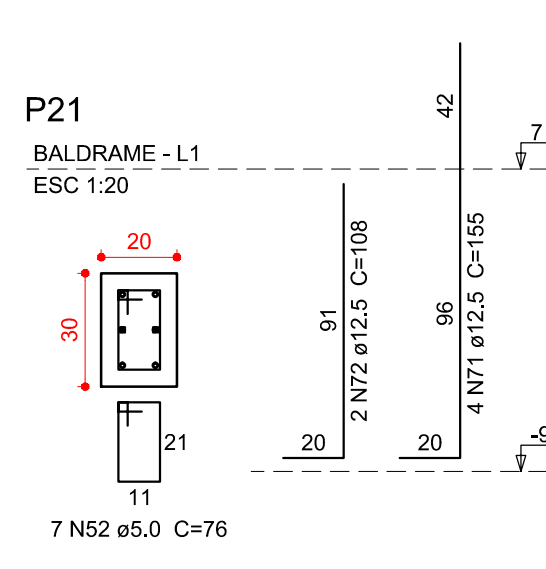
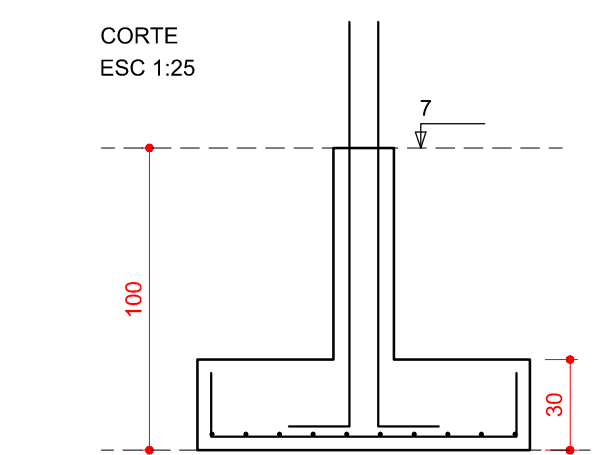
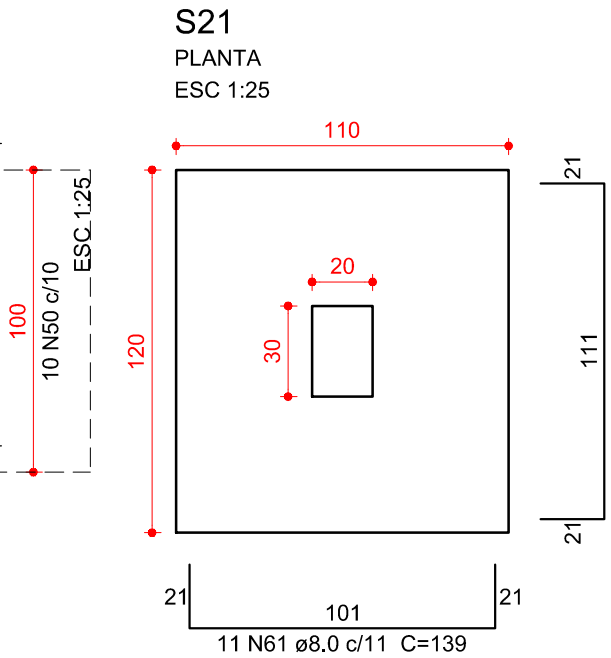
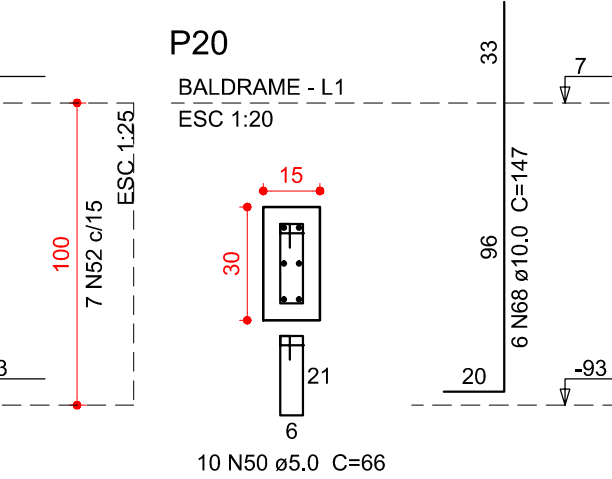
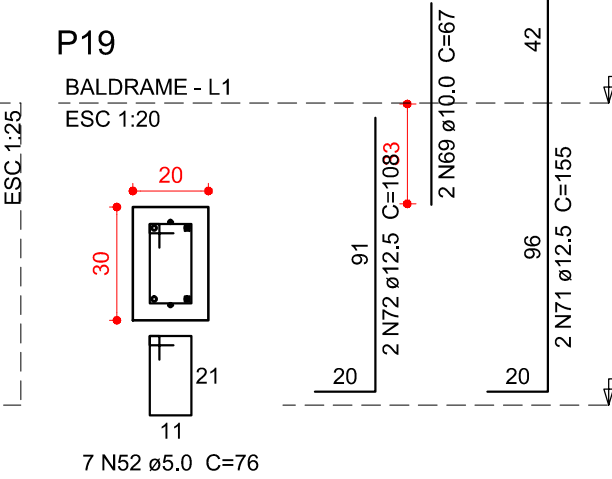
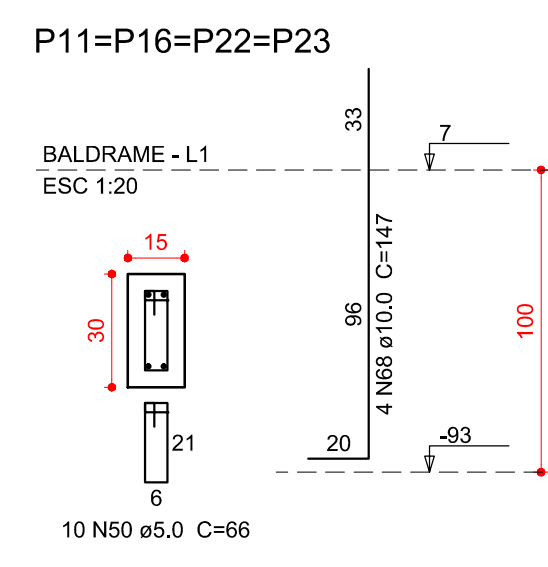
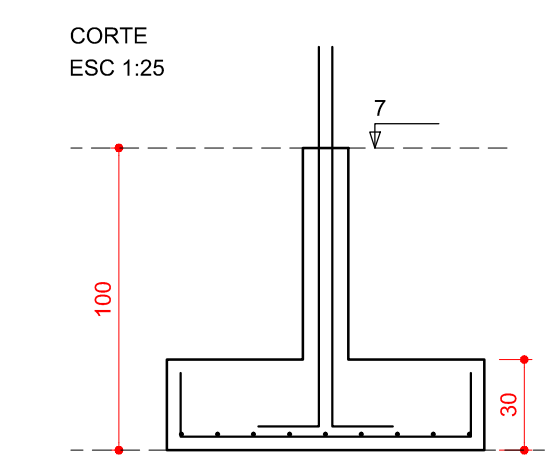
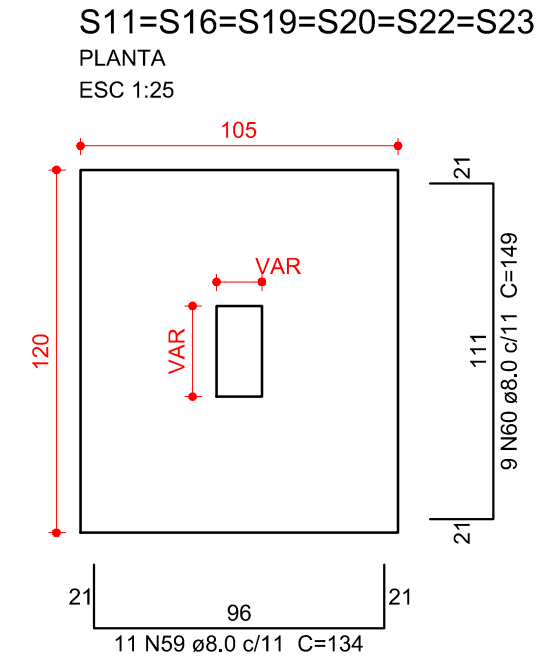
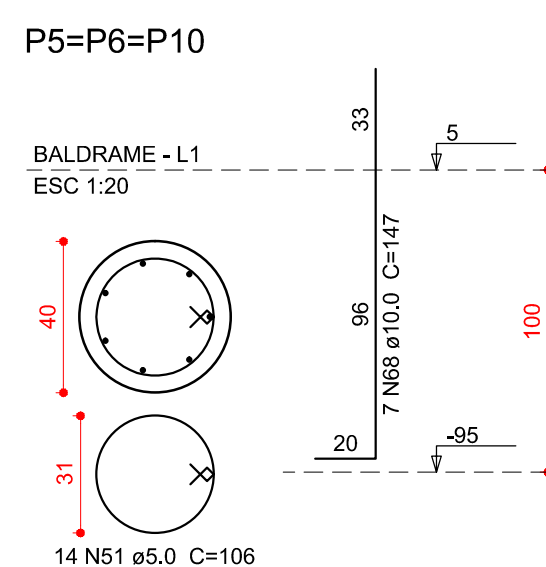
Relação do aço

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|-------|-------------|--------------|
| CA60 | 50 | 5.0 | 127 | 66 | 8382 |
| | 51 | 5.0 | 42 | 106 | 4452 |
| | 52 | 5.0 | 48 | 76 | 3648 |
| | 53 | 5.0 | 17 | 96 | 1632 |
| | 54 | 5.0 | 7 | 26 | 182 |
| | 55 | 5.0 | 10 | 26 | 260 |
| CA50 | 56 | 8.0 | 12 | 99 | 1188 |
| | 57 | 8.0 | 19 | 109 | 2071 |
| | 58 | 8.0 | 48 | 124 | 5952 |
| | 59 | 8.0 | 66 | 134 | 8844 |
| | 60 | 8.0 | 64 | 149 | 9536 |
| | 61 | 8.0 | 11 | 139 | 1529 |
| | 62 | 8.0 | 68 | 124 | 8432 |
| | 63 | 8.0 | 64 | 139 | 8896 |
| | 64 | 8.0 | 28 | 144 | 4032 |
| | 65 | 8.0 | 11 | 134 | 1474 |
| | 66 | 8.0 | 52 | 149 | 7748 |
| | 67 | 8.0 | 28 | 164 | 4592 |
| | 68 | 10.0 | 80 | 147 | 11760 |
| | 69 | 10.0 | 14 | 67 | 938 |
| | 70 | 10.0 | 5 | 109 | 545 |
| | 71 | 12.5 | 18 | 155 | 2790 |
| | 72 | 12.5 | 16 | 108 | 1728 |
| | 73 | 12.5 | 3 | 83 | 249 |

Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | QUANT + 10 % (Barras) | PESO + 10 % (kg) |
|------------------------|-----------|-------------|-----------------------|------------------|
| CA50 | 8.0 | 643 | 59 | 279.1 |
| | 10.0 | 132.5 | 13 | 89.8 |
| | 12.5 | 47.7 | 5 | 50.5 |
| CA60 | 5.0 | 185.6 | 18 | 31.5 |
| PESO TOTAL (kg) | | | | |
| CA50 | | | | 419.4 |
| CA60 | | | | 31.5 |

Volume de concreto (C-20) = 9,22 m³
Volume de concreto (C-30) = 1,48 m³
Área de forma = 50,65 m²



IMPORTANTE: A fundação foi dimensionada considerando um solo arenoso com uma pressão admissível de 1,5Kgf/m², peso específico de 1600Kgf/m³ e redutor do atrito de 0,67. Essa consideração foi efetuada devido a ser um projeto padrão. Nesse caso, antes de iniciar a construção em sapatas, deve-se realizar a sondagem do solo a ser edificado, e no caso de não apresentar os valores de resistência apresentados acima, a fundação deve ser redimensionada.

| | | | |
|----|------------|----------------------|-------------|
| 02 | 21/03/2017 | Compatibilização BIM | Rafael |
| 01 | 02/03/2016 | Revisão NBR6118:2014 | Rafael |
| N | DATA | ASSUNTO DA REVISÃO | RESPONSÁVEL |

REVISÕES

GOVERNO DO ESTADO DE SANTA CATARINA
SST - SECRETARIA DE ESTADO DA ASSISTENCIA SOCIAL, TRABALHO E HABITAÇÃO

PROPRIETÁRIO: Secretaria de Estado da Assist. Social, Trab. e Habitação
MUNICÍPIO: Conforme edital

OBRA: CRAS - Centro de Referência da Assist. Social
ESCRITÓRIO REGIONAL: SPG - Secretaria de Estado do Planejamento

LOCAL: Conforme edital
TIPO: Edificação pública em 1 pav. em alvenaria e concreto armado

ARQ. ELSA CRISTINA DE ABREU KONESKI CAU: 17.047-0/SC
PROJETO:

ARQ. BARBARA MARTINS GODENY CAU: A49787-8
REFERÊNCIA:

ENG. CIVIL RAFAEL F. TEIXEIRA DA SILVA CREA-SC: 052547-8
ESTRUTURAL
ARMADURA DAS SAPATAS

DESENHO: ARQ. RICARDO DE FREITAS CAU: 31.474-9/SC
DATA: 23/03/2017
ESCALA DO DESENHO: INDICADA
ARQUIVO: EST_Baldrame_Armaduras_Sapatas_R02.DWG

EST 3 15