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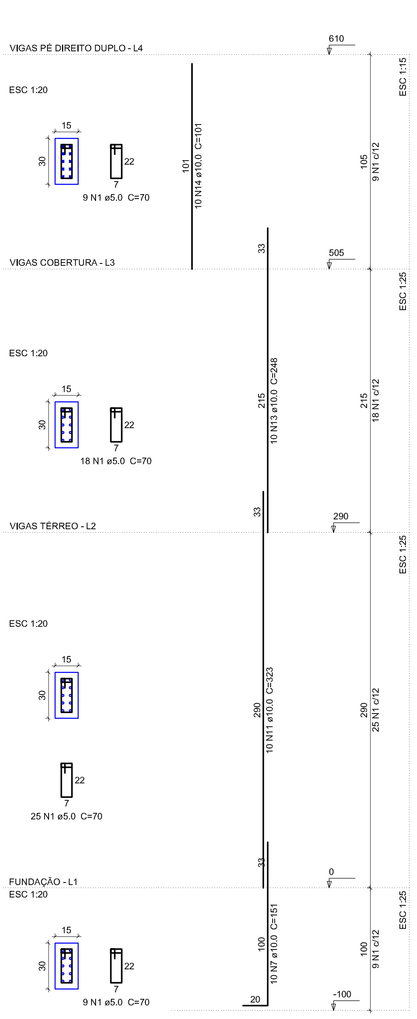

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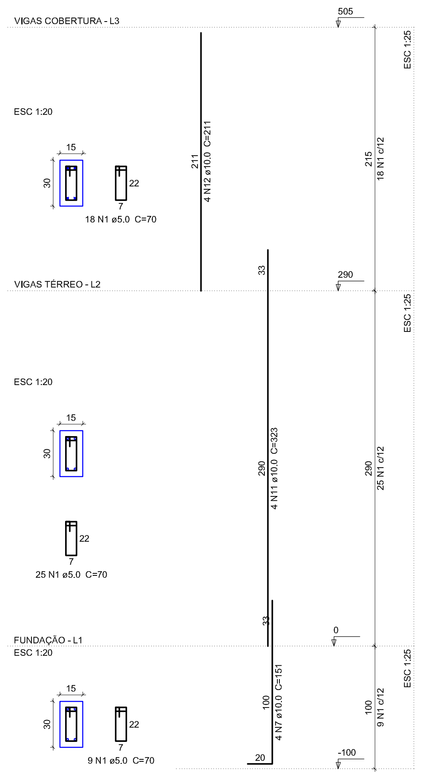

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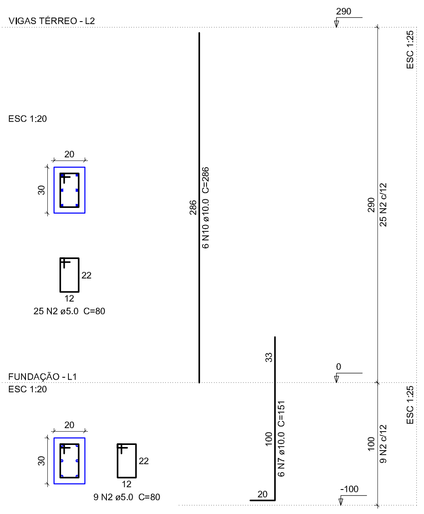

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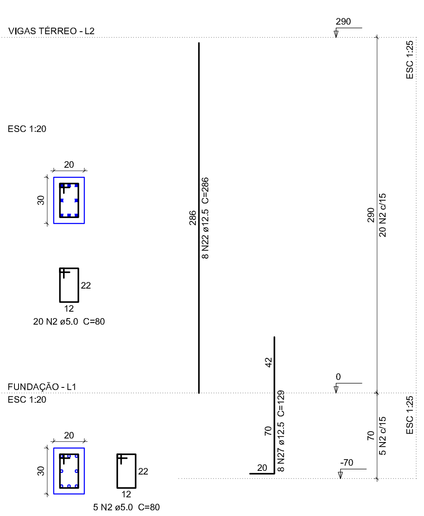

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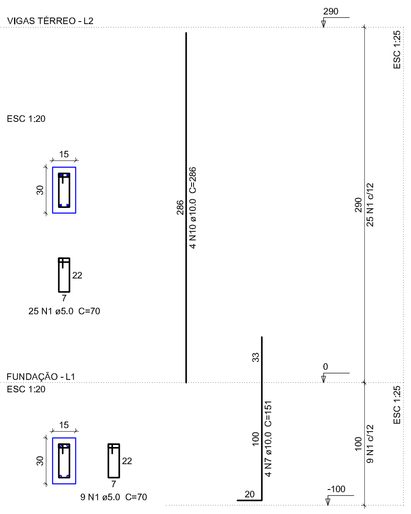

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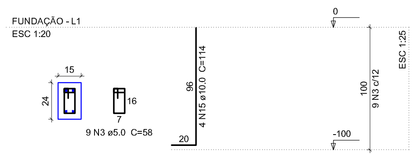

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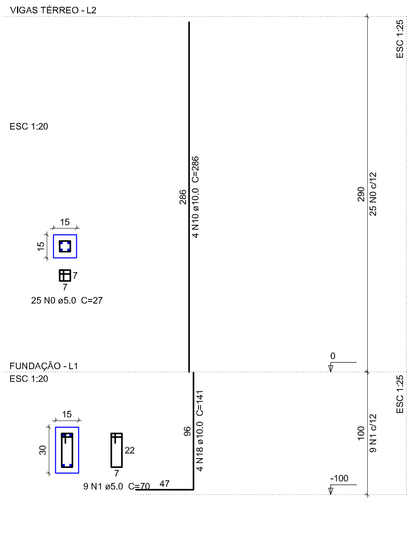

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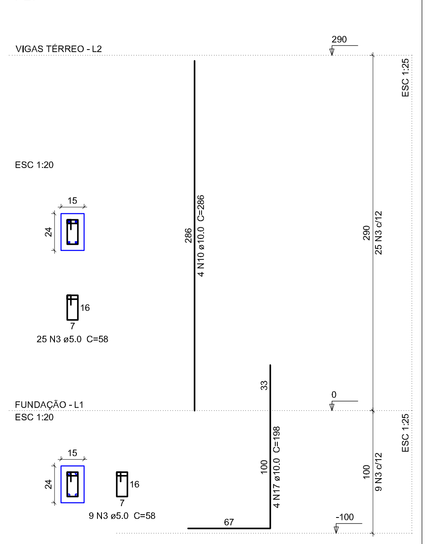

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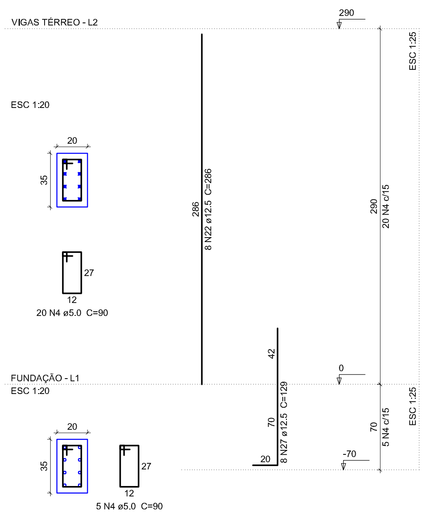

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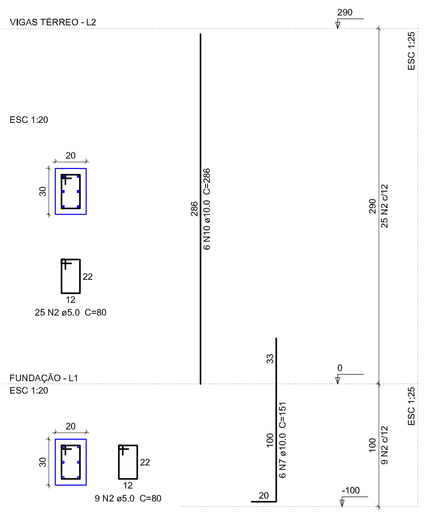

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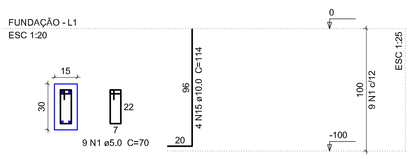

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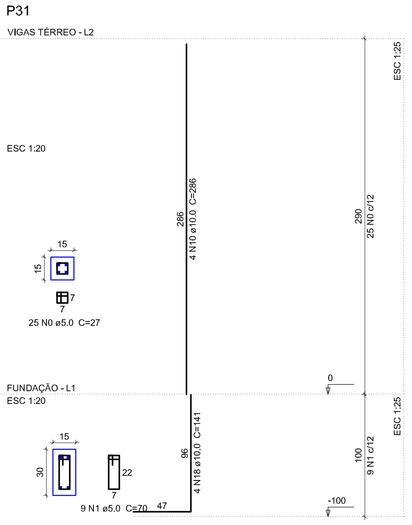

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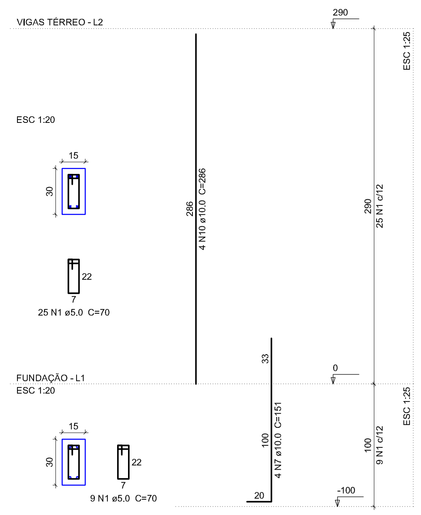

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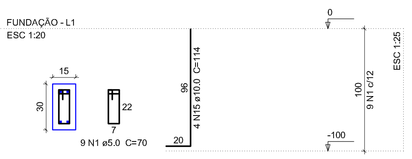

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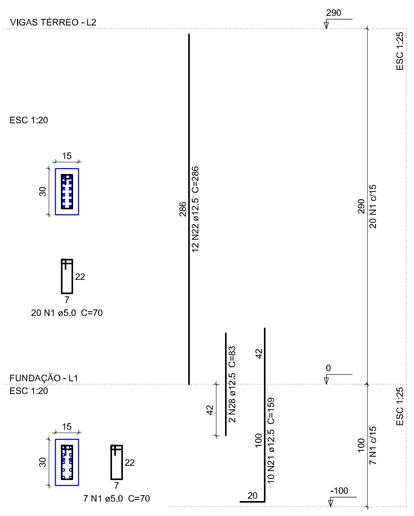

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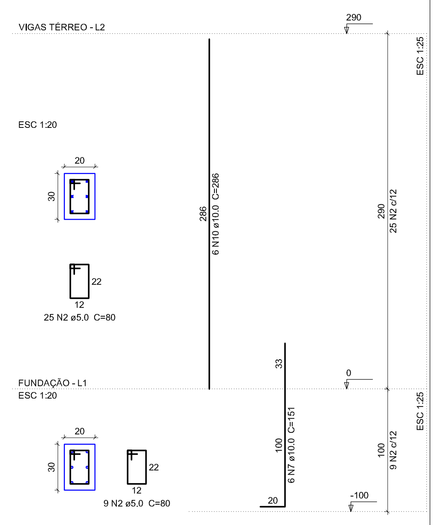

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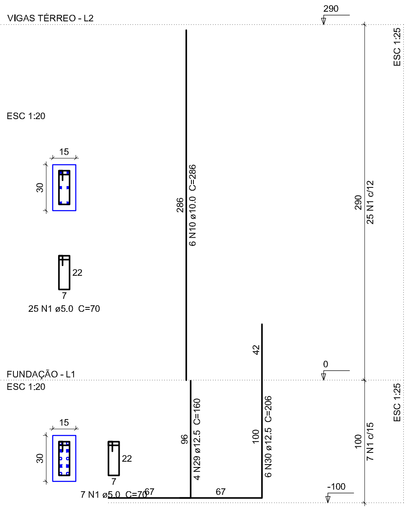

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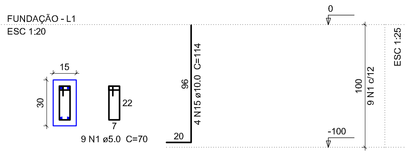

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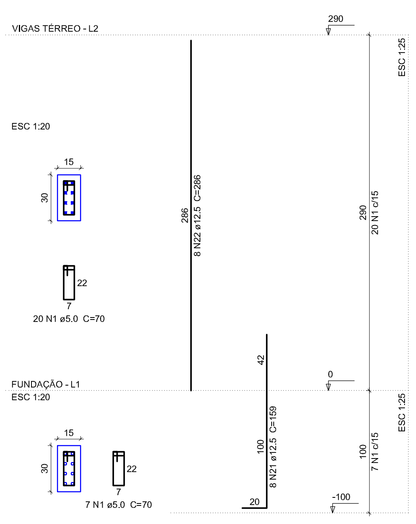

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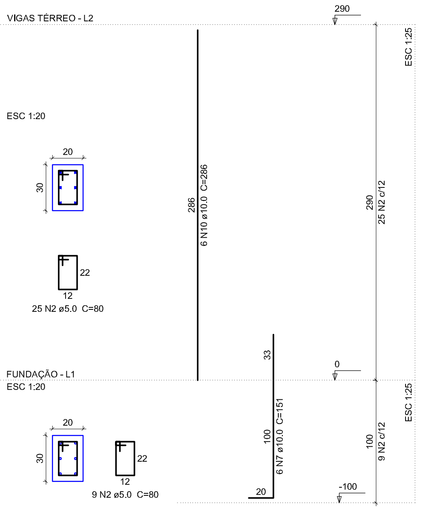

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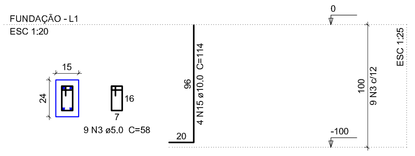

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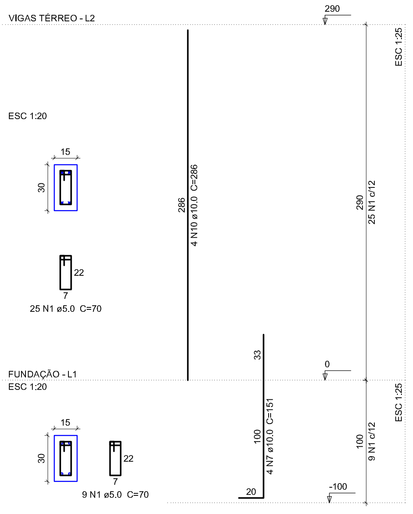

NOTAS

A. Confrontar medidas do projeto estrutural com projeto arquitetônico

B. Executar passagem de tubulação de água, esgoto e eletricidade

C. Molhar as formas antes da concretagem

D. Conservar úmida as peças concretadas durante o tempo de cura

E. Executar limpeza de formas ou partes da estrutura em contato com o concretagem

F. Usar apoio do tipo caranguejo para manter armaduras negativas em posição durante o concretagem

COBRIMENTO DAS ARMADURAS

ELEMENTOS ESTRUTURAIS	COBRIMENTO NOMINAL
Pilares	4,0 cm
Vigas	4,0 cm
Lajes	3,5 cm
Sapatas	4,0 cm
CLASSE DE AGRESSIVIDADE	III (FORTE) - CONTROLE RIGOROSO DAS DIMENSÕES

CARACTERÍSTICAS DO CONCRETO

Classe de Resistênica	C-30
Módulo de Elasticidade	280 tf/cm²
Fator a/c	< 0,55

ENGEON ENGENHARIA
(66) engeonengenharia@gmail.com
3206-8801

CMEI
NOSSA SENHORA DOS NAVEGANTES

PROJETO ESTRUTURAL

PROJETO: ENGENHEIRO CIVIL JEFFERSON MACIEL VALCANOVER CREA/PR 19.637/D

EXECUÇÃO:

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE PARANAGUÁ CNPJ: 76.017.458/0001-15

ESCALA: INDICADA

DATA: OUTUBRO/2018

DESENHO: MATHEUS L. SANTOS

CONTEÚDO: PILARES

LOCAL: ILHA DOS VALADARES - VILA BELA PARANAGUÁ - PR

CATEGORIA: INSTITUCIONAL

PRANCHA: 07/19