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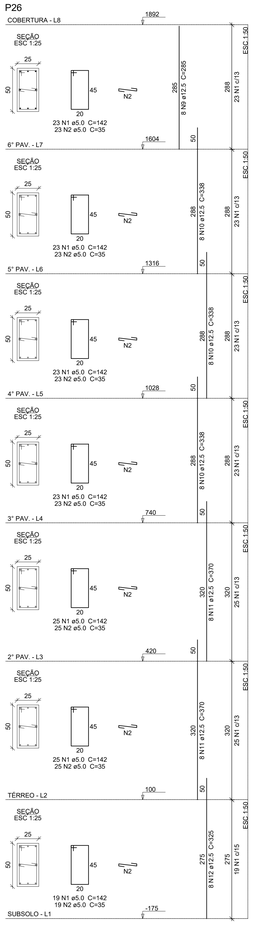

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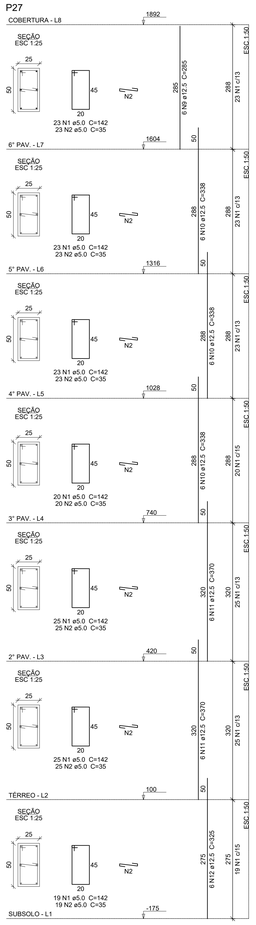

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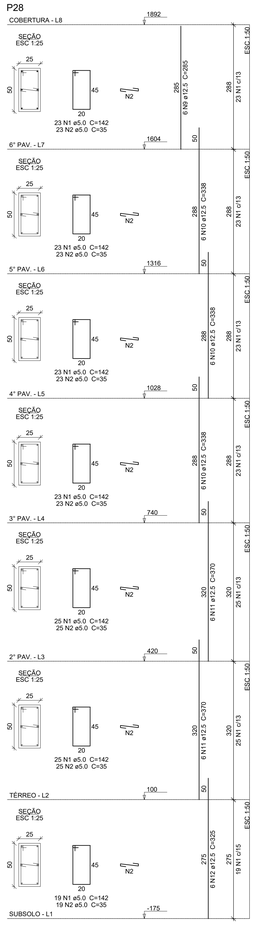
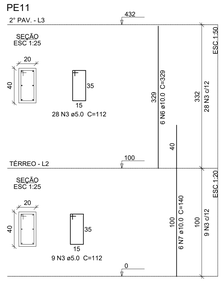
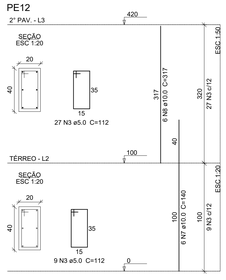


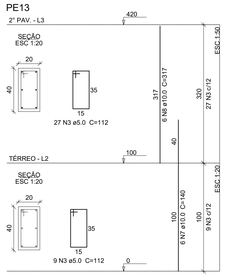
PE11



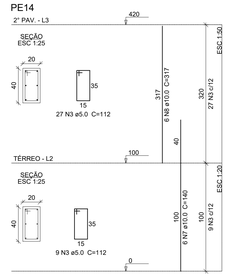
PE12



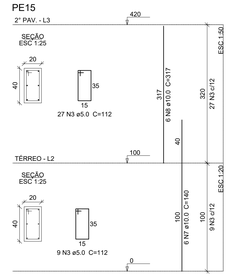
PE13



PE14



PE15



Relação do aço

2° PAV.: PE1, PE2, PE3, PE4, PE5, PE6, PE7, PE8, PE9, PE11, PE12, PE13, PE14, PE15

COBERTURA: P26, P27, P28

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	480	142	68160
	2	5.0	480	35	16800
	3	5.0	232	112	25984
	4	5.0	56	102	5712
	5	5.0	140	72	10080
CA50	6	10.0	54	329	17766
	7	10.0	30	140	4200
	8	10.0	24	317	7608
	9	12.5	20	285	5700
	10	12.5	60	338	20280
	11	12.5	40	370	14800
	12	12.5	20	325	6500
	13	12.5	6	329	1974

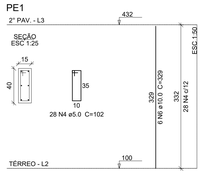
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	295.8	200.6
	12.5	492.6	521.9
CA60	5.0	1267.4	214.9

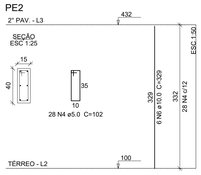
PESO TOTAL (kg)	
CA50	722.5
CA60	214.9

Volume de concreto (C-30) = 11.19 m³
Área de forma = 146.67 m²

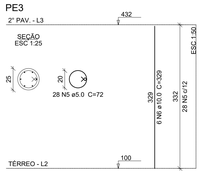
PE1



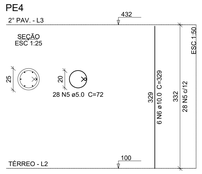
PE2



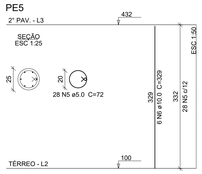
PE3



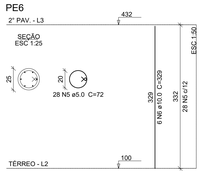
PE4



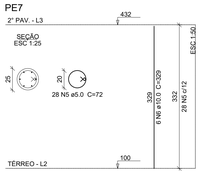
PE5



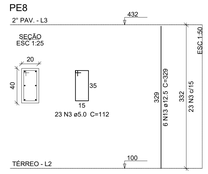
PE6



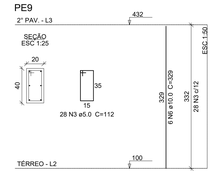
PE7



PE8



PE9



ITEM	REVISÃO (CONTEÚDO)	RESPONS.	DATA

PROPRIETÁRIO: SERVIÇO SOCIAL DO COMÉRCIO - SESC

AUTOR DO PROJETO: ENGº CIVIL E ARQ ALEXANDRE DE MORAES FERREIRA - CREA/PA 4393D

DESENV. DO PROJETO: ENGº CIVIL ALMIR MAGALHÃES JR. - CREA/PA 151086898-4D

PREFEITURA

BOMBEIROS

DEMAIS ÓRGÃOS

PROPRIETÁRIO: SERVIÇO SOCIAL DO COMÉRCIO - SESC

ABL-CBK engenharia, arquitetura & paisagismo ltda.
FONE:(91) 3244-5726/e-mail: ablcbk@nautilus.com.br

PROJETO: CONSTRUÇÃO ED. 06 PAVIMENTOS DA UNIDADE DOCA
DISCIPLINA: ESTRUTURA
FASE: PROJETO EXECUTIVO

CONTEÚDO: ARMAÇÃO DOS PILARES - PARTE 4

Sesc

ENDEREÇO: RUA SENADOR MANOEL BARATA Nº 1873 - REDUTO - BELÉM/PA
AUTORES: ENGº CIVIL E ARQ ALEXANDRE DE MORAES FERREIRA - CREA/PA 4393D; ENGº CIVIL ALMIR MAGALHÃES JR. - CREA/PA 151086898-4D
RESPONSÁVEL TÉCNICO: ENGº CIVIL E ARQ ALEXANDRE DE MORAES FERREIRA - CREA/PA 4393D

DISCIPLINA | FRANCHA | TOTAL: EST 22/64

VISTO

ESCALA:	DATA:	REVISÃO:	DESENV. GRÁFICO:
INDICADA	JUNHO-2018	000	ENGº CIVIL ALMIR MAGALHÃES JR.

FORMATO ISO A0 - 1189 x 841 mm