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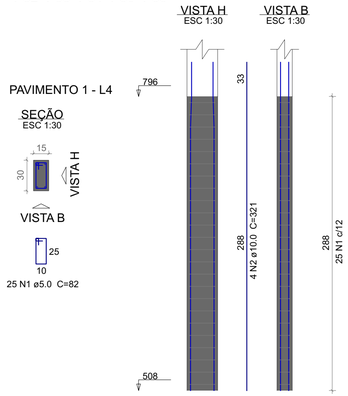

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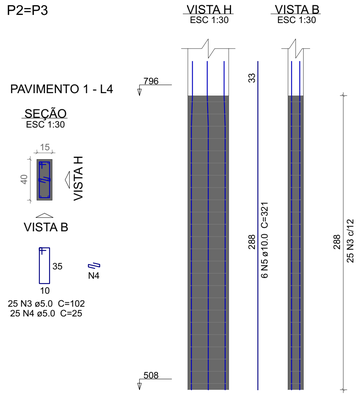

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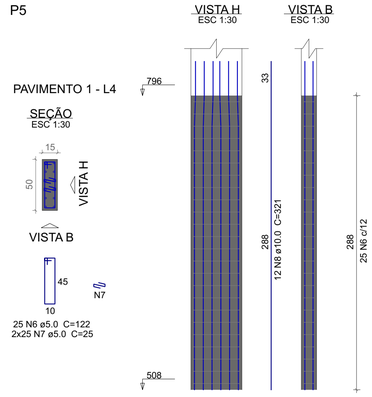

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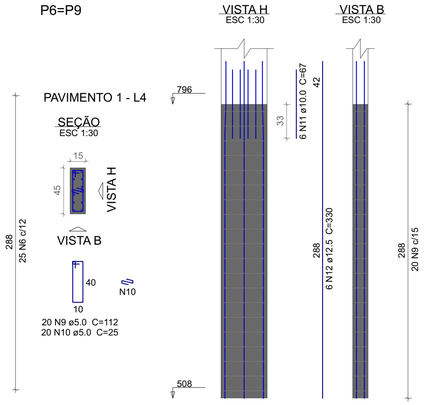

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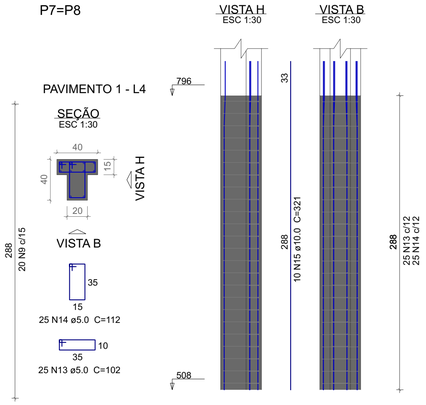

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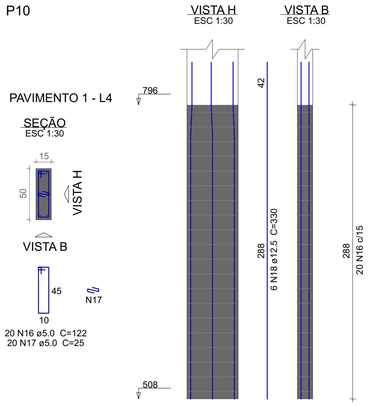

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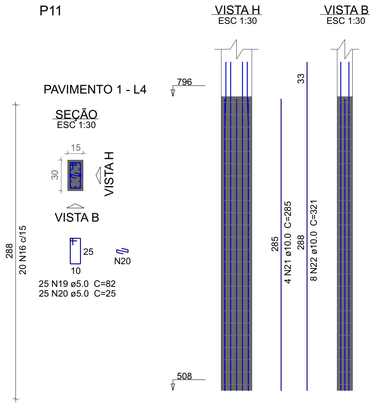

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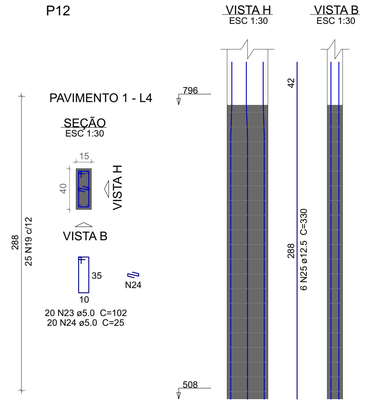

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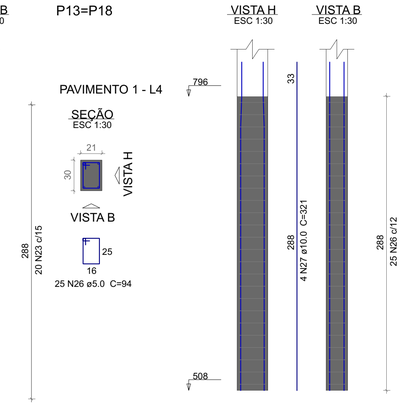

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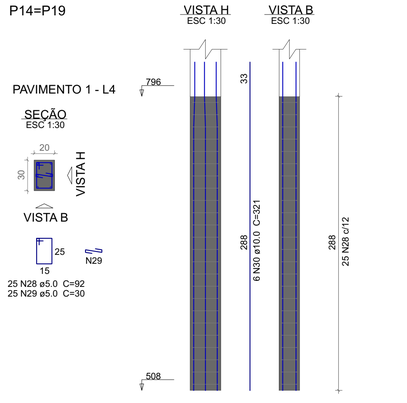

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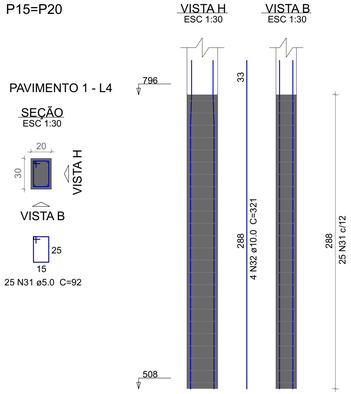

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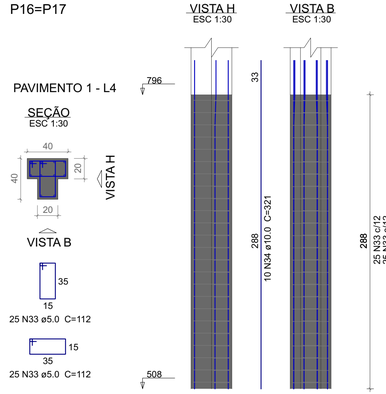

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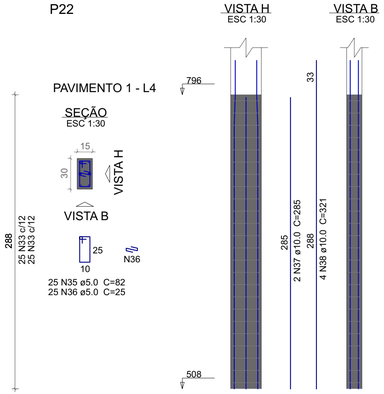

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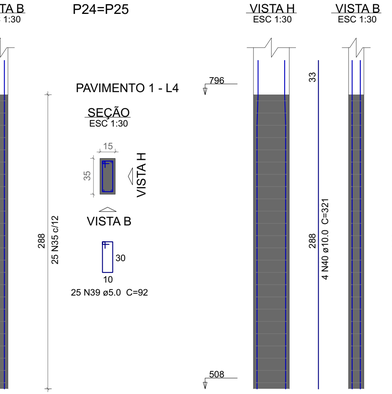

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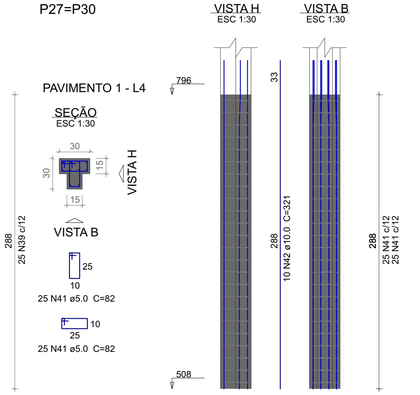

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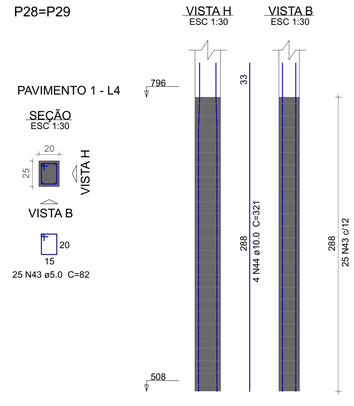

Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
11xP1	CA60	1	5.0	275	82	22550
	CA50	2	10.0	44	321	14124
2xP2	CA60	3	5.0	50	102	5100
	CA60	4	5.0	50	25	1250
	CA50	5	10.0	12	321	3852
P5	CA60	6	5.0	25	122	3050
	CA60	7	5.0	50	25	1250
	CA50	8	10.0	12	321	3852
2xP6	CA60	9	5.0	40	112	4480
	CA60	10	5.0	40	25	1000
	CA50	11	10.0	12	67	804
	CA50	12	12.5	12	330	3960
2xP7	CA60	13	5.0	50	102	5100
	CA60	14	5.0	50	112	5600
	CA50	15	10.0	20	321	6420
P10	CA60	16	5.0	20	122	2440
	CA60	17	5.0	20	25	500
	CA50	18	12.5	6	330	1980
P11	CA60	19	5.0	25	82	2050
	CA60	20	5.0	25	25	625
	CA50	21	10.0	4	285	1140
	CA50	22	10.0	8	321	2568
P12	CA60	23	5.0	20	102	2040
	CA60	24	5.0	20	25	500
	CA50	25	12.5	6	330	1980
2xP13	CA60	26	5.0	50	94	4700
	CA50	27	10.0	8	321	2568
2xP14	CA60	28	5.0	50	92	4600
	CA60	29	5.0	50	30	1500
	CA50	30	10.0	12	321	3852
2xP15	CA60	31	5.0	50	92	4600
	CA50	32	10.0	8	321	2568
2xP16	CA60	33	5.0	100	112	11200
	CA50	34	10.0	20	321	6420
P22	CA60	35	5.0	25	82	2050
	CA60	36	5.0	25	25	625
	CA50	37	10.0	2	285	570
	CA50	38	10.0	4	321	1284
2xP24	CA60	39	5.0	50	92	4600
	CA50	40	10.0	8	321	2568
2xP27	CA60	41	5.0	100	82	8200
	CA50	42	10.0	20	321	6420
2xP28	CA60	43	5.0	50	82	4100
	CA50	44	10.0	8	321	2568

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	615.8	57	417.6
	12.5	79.2	8	83.9
CA60	5.0	1037.1	-	175.8

PESO TOTAL (kg)	
CA50	501.5
CA60	175.8

Volume de concreto (C-30) = 6.38 m³
Área de forma = 111.28 m²

LEGENDA:

YOSHITO DE SOUZA FUKUDA:07067083770

Assinado de forma digital por YOSHITO DE SOUZA FUKUDA:07067083770
Dados: 2022.04.07 01:48:09 -03'00'

Engenheiro Coordenador Nome: Daniel Pereira Silva Crea: ES-011430/D ART n°: Visto	SERPENGE SERPENGE - SERVIÇOS E PROJETOS DE ENGENHARIA LTDA EPP	PREFEITURA MUNICIPAL DE COLATINA- SECRETARIA MUNICIPAL DE OBRAS
Responsável Técnico Nome: Yoshito de Souza Fukuda Crea: ES-0051381/D ART n°: Visto		PROJETO DE ENGENHARIA PARA OBRA DE EDIFÍCIO MULTIFAMILIAR PROGRAMA NOSSA CASA
REVISÃO N°: -		PROJETO: CONJUNTO DE DOIS EDIFÍCIOS RESIDENCIAIS MULTIFAMILIAR ENDEREÇO : MUNICIPIO DE COLATINA/ES Escala: INDICADA Data: MARÇO / 2022
		PROJETO ESTRUTURAL Folha N° EST- 14 / 29