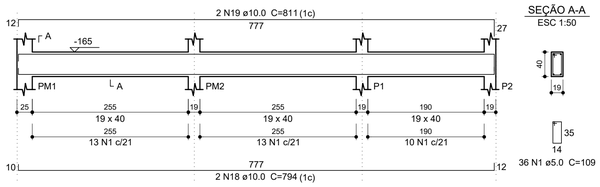
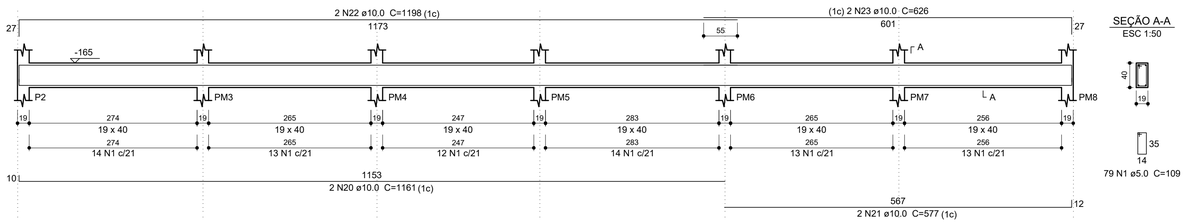
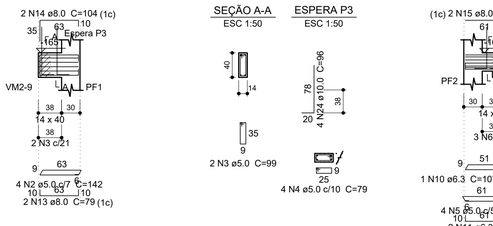
VM2-1 (19 x 40)
ESC 1:50



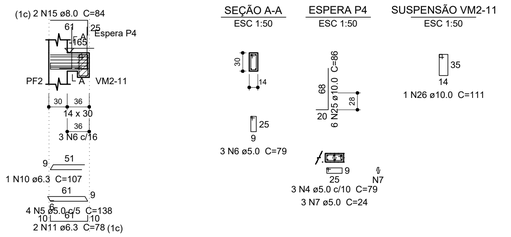
VM2-2 (19 x 40)
ESC 1:50



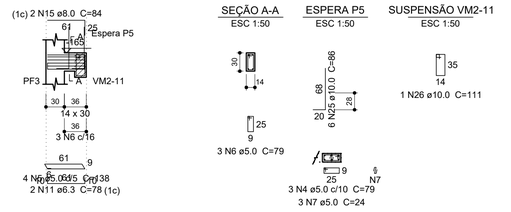
VM2-3 (14 x 40)
ESC 1:50



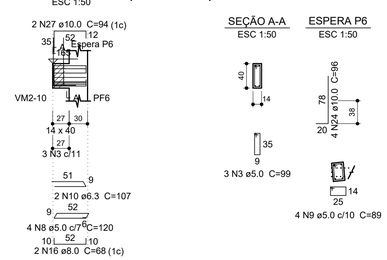
VM2-4 (14 x 30)
ESC 1:50



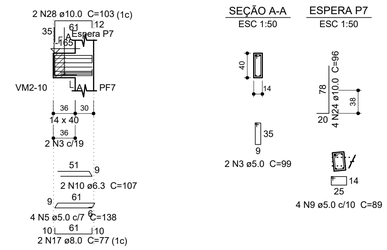
VM2-5 (14 x 30)
ESC 1:50



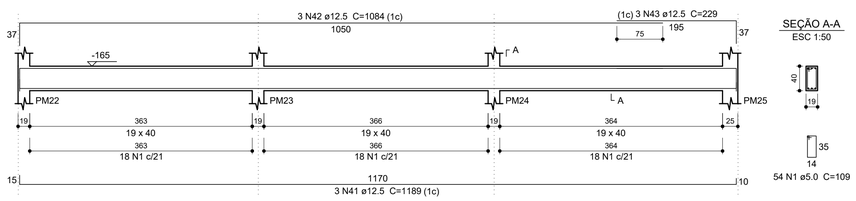
VM2-6 (14 x 40)
ESC 1:50



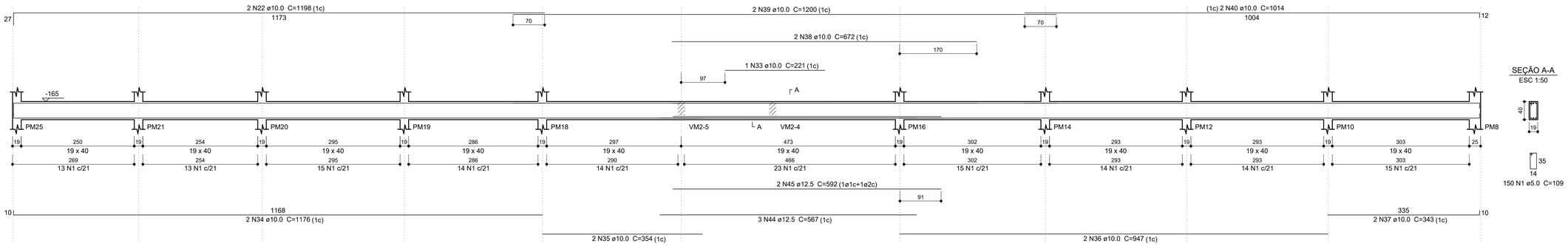
VM2-7 (14 x 40)
ESC 1:50



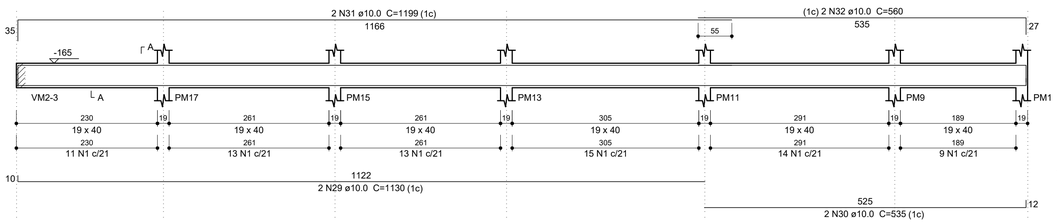
VM2-8 (19 x 40)
ESC 1:50



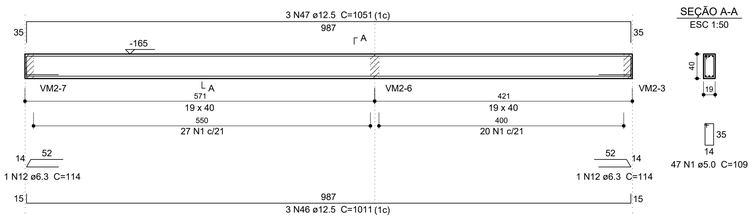
VM2-11 (19 x 40)
ESC 1:50



VM2-9 (19 x 40)
ESC 1:50



VM2-10 (19 x 40)
ESC 1:50



Relação do aço

VM2-1	VM2-2	VM2-3
VM2-4	VM2-5	VM2-6
VM2-7	VM2-8	VM2-9
VM2-10	VM2-11	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	441	109	48069
	2	5.0	4	142	568
	3	5.0	7	99	693
	4	5.0	10	79	790
	5	5.0	12	138	1656
	6	5.0	6	79	474
	7	5.0	6	24	144
	8	5.0	4	120	480
	9	5.0	8	89	712
CA50	10	6.3	5	107	535
	11	6.3	4	78	312
	12	6.3	2	114	228
	13	8.0	2	79	158
	14	8.0	2	104	208
	15	8.0	4	84	336
	16	8.0	2	68	136
	17	8.0	2	77	154
	18	10.0	2	794	1588
	19	10.0	2	811	1622
	20	10.0	2	1161	2322
	21	10.0	2	577	1154
	22	10.0	4	1198	4792
	23	10.0	2	626	1252
	24	10.0	12	96	1152
	25	10.0	12	86	1032
	26	10.0	2	111	222
	27	10.0	2	94	188
	28	10.0	2	103	206
	29	10.0	2	1130	2260
	30	10.0	2	535	1070
	31	10.0	2	1199	2398
	32	10.0	2	560	1120
	33	10.0	1	221	221
	34	10.0	2	1176	2352
	35	10.0	2	354	708
	36	10.0	2	947	1894
	37	10.0	2	343	686
	38	10.0	2	672	1344
	39	10.0	2	1200	2400
	40	10.0	2	1014	2028
	41	12.5	3	1189	3567
	42	12.5	3	1084	3252
	43	12.5	3	229	687
	44	12.5	3	567	1701
	45	12.5	2	592	1184
	46	12.5	3	1011	3033
	47	12.5	3	1051	3153

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	10.8	1	2.9
	8.0	10	1	4.3
	10.0	340.2	32	230.7
	12.5	165.8	16	175.7
CA60	5.0	535.9	50	90.9

PESO TOTAL (kg)	
CA50	413.5
CA60	90.9

Volume de concreto (C-25) = 7.01 m³
Área de forma = 91.61 m²

SOUZA CAMARGOS ENGENHARIA

Contatos: (37) 3215 - 0267
E-mail: souzacamargos.projetos@gmail.com

RESPONSÁVEL TÉCNICO:
FELIPE HENRIQUE CAMARGO:09990257671
Assinado de forma digital por FELIPE HENRIQUE CAMARGO:09990257671
Dados: 2023.06.28 21:34:45 -03'00'
FELIPE HENRIQUE CAMARGOS
CREA: 248.394/D

RESPONSÁVEL PELA OBRA:
ELDER CORREA DE FREITAS:20179456687
Assinado de forma digital por ELDER CORREA DE FREITAS:20179456687
Dados: 2023.06.29 10:08:27 -03'00'
MUNICÍPIO DE LEANDRO FERREIRA
CNPJ.: 18.291.351/0001-64

PROJETO DE DIMENSIONAMENTO DE ESTRUTURA EM CONCRETO ARMADO

CONTÉM: DETALHAMENTO VIGAS N.-165

ASSUNTO: PROJETO EXECUTIVO DE DIMENSIONAMENTO DE REDE HIDRÁULICA PREDIAL

LOCAL: AV. D. ISABEL, Nº 73 - CENTRO, LEANDRO FERREIRA/MG

FINALIDADE: SAÚDE

RESPONSÁVEL: MUNICÍPIO DE LEANDRO FERREIRA

ÁREA DO TERRENO: 791,26 m²

ÁREA EDIFICADA: 542,22 m²

FOLHA: 10/27

DESENHO: THALYS DE SOUZA | DATA: 27/06/2023 | REVISÃO: 00/2023

Formato A1 - 841x594mm