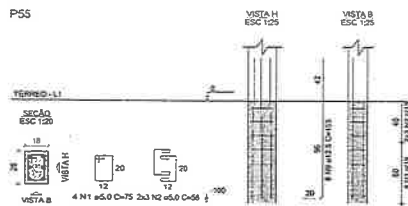
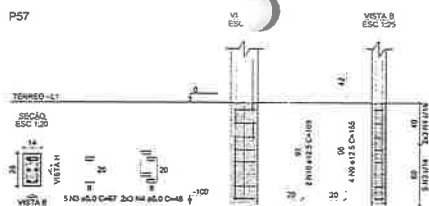


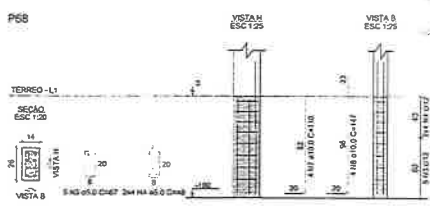
P55



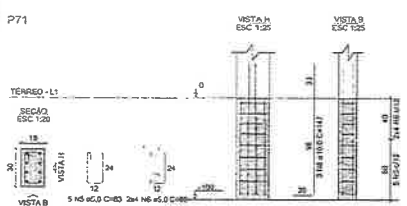
P57



P68



P71



RELACAO DO AÇO

ACQ	H	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (kg)
CABO	1	5.0	4	75	300
	2	5.0	4	36	144
	3	5.0	10	37	370
	4	5.0	14	48	672
	5	5.0	5	33	165
	6	5.0	8	80	640
	7	10.0	4	910	3640
	8	10.0	12	147	1764
	9	5.0	16	106	1696
	10	13.5	2	108	216

RESUMO DO AÇO

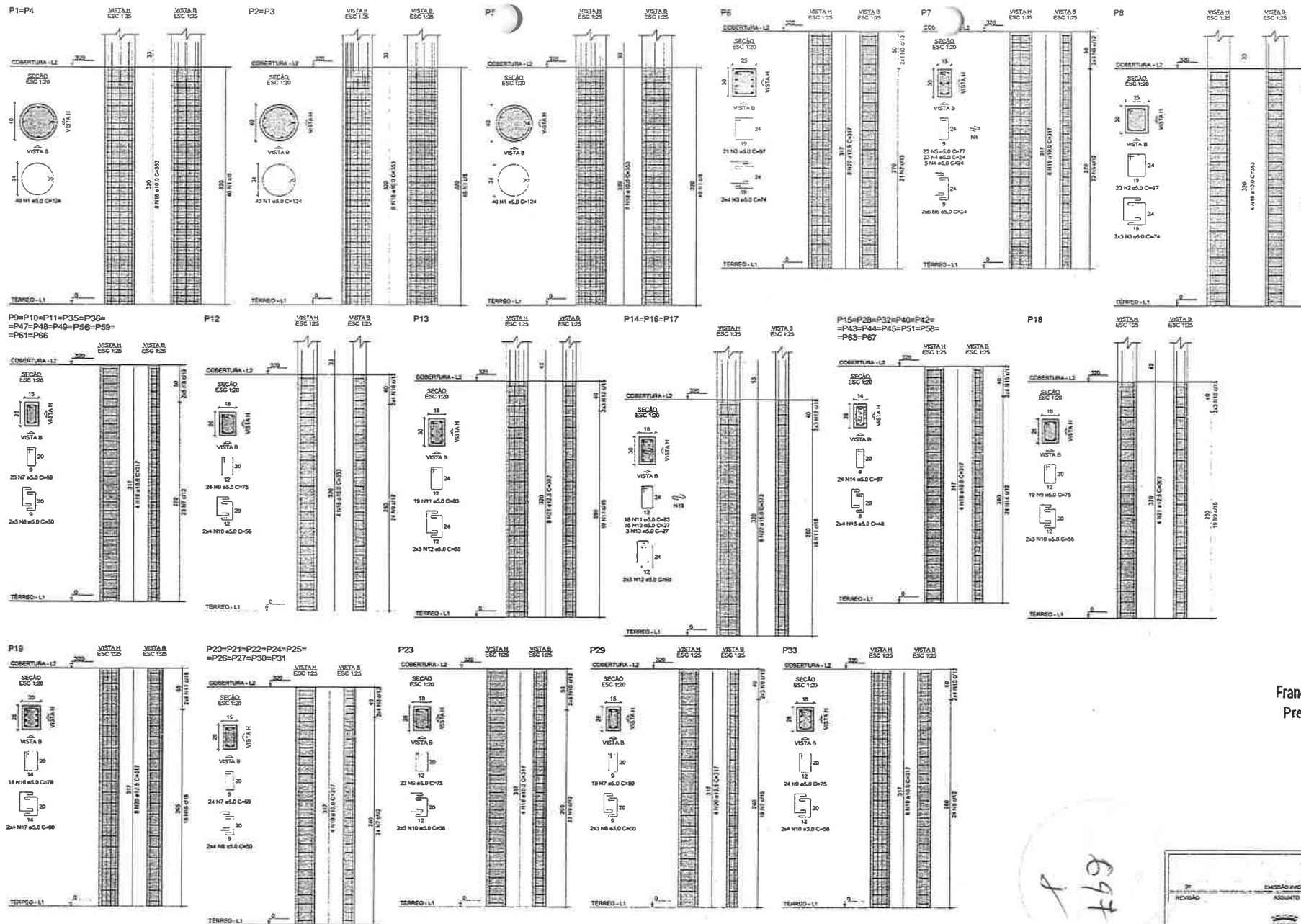
ACQ	DIAM (mm)	C.TOTAL (kg)	PESO = 10%
CABO	18.0	26	18.0
CABO	12.5	17.7	18.1
CABO	5.0	28.3	4.5
PESO TOTAL			
CABO	33.1		
CABO	4.5		

Volume de concreto (C-30) = 0,12 m³
 Área de forma = 2,29 m²

Francisco Wallysson Pava Magalhães
 Prefeitura Municipal de Itaitinga
 Engenheiro Civil
 CREA-CE: 060741988-4

1596

EMISSÃO FINAL	RESPONSÁVEL	FRANCISCO W. P. MAGALHÃES
REVISÃO	DATA	RESPONSÁVEL
TÍTULO: REFORMA E AMPLIAÇÃO DA CRECHE GUARARUPE DOUTOR NUNO LOCAL: PREFEITURA MUNICIPAL DE ITAITINGA - CE PROJETO: SARGO ANILAS DATA: 09-32		



RELACÃO DO AÇO

ACO	DIAM (mm)	QUANT	C. UNIT (cm)	C. TOTAL (m)
CA50	10	10	10	100
CA50	12	12	12	144
CA50	14	14	14	196
CA50	16	16	16	256
CA50	18	18	18	324
CA50	20	20	20	400
CA50	22	22	22	484
CA50	24	24	24	576
CA50	26	26	26	676
CA50	28	28	28	784
CA50	30	30	30	900
CA50	32	32	32	1024
CA50	34	34	34	1156
CA50	36	36	36	1296
CA50	38	38	38	1444
CA50	40	40	40	1600
CA50	42	42	42	1764
CA50	44	44	44	1936
CA50	46	46	46	2116
CA50	48	48	48	2304
CA50	50	50	50	2500
CA50	52	52	52	2704
CA50	54	54	54	2916
CA50	56	56	56	3136
CA50	58	58	58	3364
CA50	60	60	60	3600
CA50	62	62	62	3844
CA50	64	64	64	4096
CA50	66	66	66	4356
CA50	68	68	68	4624
CA50	70	70	70	4900
CA50	72	72	72	5184
CA50	74	74	74	5476
CA50	76	76	76	5776
CA50	78	78	78	6084
CA50	80	80	80	6400
CA50	82	82	82	6724
CA50	84	84	84	7056
CA50	86	86	86	7396
CA50	88	88	88	7744
CA50	90	90	90	8100
CA50	92	92	92	8464
CA50	94	94	94	8836
CA50	96	96	96	9216
CA50	98	98	98	9604
CA50	100	100	100	10000

RESUMO DO AÇO

ACO	DIAM (mm)	C. TOTAL (m)	PESO (kg)
CA50	10	100	100
CA50	12	144	172
CA50	14	196	235
CA50	16	256	312
CA50	18	324	396
CA50	20	400	490
CA50	22	484	590
CA50	24	576	696
CA50	26	676	808
CA50	28	784	926
CA50	30	900	1050
CA50	32	1024	1180
CA50	34	1156	1316
CA50	36	1296	1458
CA50	38	1444	1606
CA50	40	1600	1760
CA50	42	1764	1920
CA50	44	1936	2086
CA50	46	2116	2258
CA50	48	2304	2436
CA50	50	2500	2620
CA50	52	2704	2810
CA50	54	2916	3006
CA50	56	3136	3208
CA50	58	3364	3416
CA50	60	3600	3630
CA50	62	3844	3850
CA50	64	4096	4076
CA50	66	4356	4308
CA50	68	4624	4546
CA50	70	4900	4790
CA50	72	5184	5040
CA50	74	5476	5296
CA50	76	5776	5558
CA50	78	6084	5826
CA50	80	6400	6100
CA50	82	6724	6380
CA50	84	7056	6666
CA50	86	7396	6958
CA50	88	7744	7256
CA50	90	8100	7560
CA50	92	8464	7870
CA50	94	8836	8186
CA50	96	9216	8508
CA50	98	9604	8836
CA50	100	10000	9170

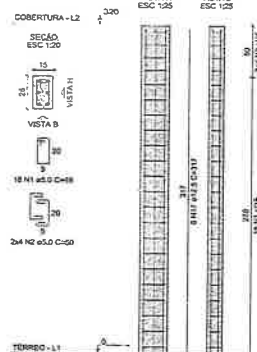
Volume de concreto (C-30) = 8.18 m³
Área de forma = 144.39 m²

Francisco Wallysson Paiva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 05/741988-4

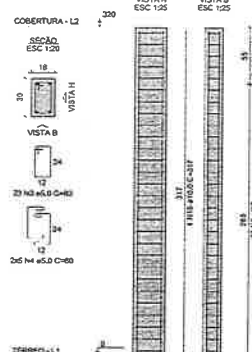
697

21	EMISSÃO FINAL	03/05/2025	FRANCISCO W. P. MAGALHÃES
REVISÃO	ASSINTO	DATA	RESPONSÁVEL
TÍTULO: REFORMA E AMPLIAÇÃO DA UNIDADE DE SAÚDE QUEIROZ GUERINHO		PROJETO: FRANCISCO W. P. MAGALHÃES	
LOCAL: PREFEITURA MUNICIPAL DE ITAITINGA - CE		PROJETO: FRANCISCO W. P. MAGALHÃES	
AUTOR: BARTHOLOMEU		PROJETO: FRANCISCO W. P. MAGALHÃES	
TÍTULO: PLANO DE COBERTURA 12		TÍTULO: ANEXO 12	
		10-32	

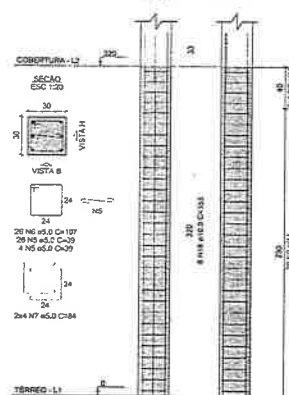
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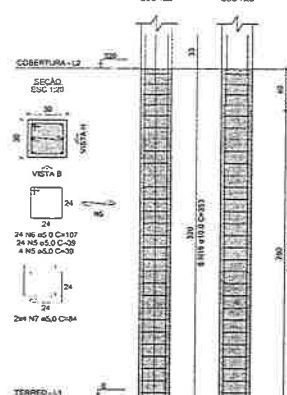
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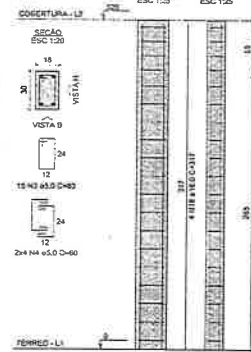
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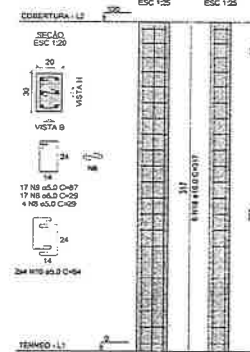
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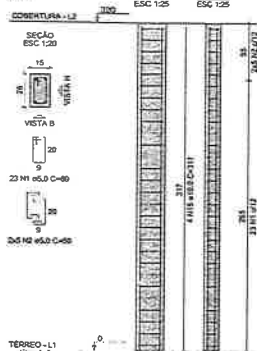
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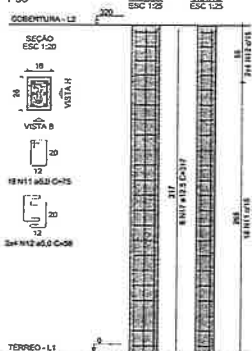
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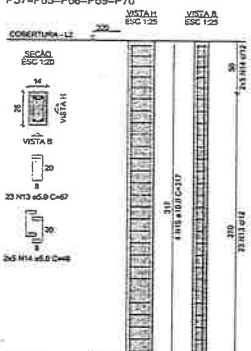
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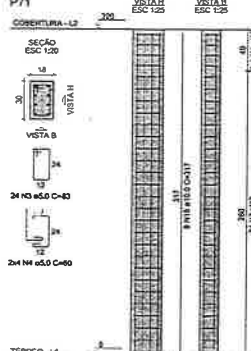
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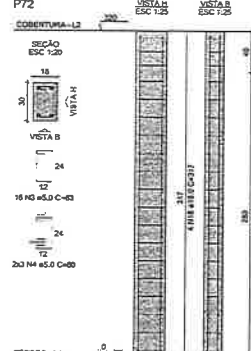
P57=P65=P68=P69=P70



P71



P72



RELACÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	CLASSE	C.TOTAL (mm)
CABO	1	5.0	72	50	3672
	2	5.0	34	50	1700
	3	5.0	110	50	5500
	4	5.0	52	50	2600
	5	5.0	21	50	1050
	6	5.0	100	50	5000
	7	5.0	17	50	850
	8	5.0	22	50	1100
	9	5.0	11	50	550
	10	5.0	8	50	400
	11	5.0	18	50	900
	12	5.0	6	50	300
	13	5.0	11	50	550
	14	5.0	30	50	1500
	15	10.0	44	317	13948
	16	10.0	24	332	7968
	17	12.5	34	317	10982
	18	15.0	14	317	4438

RESUMO DO AÇO

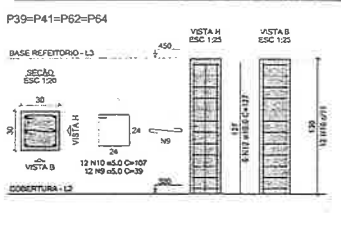
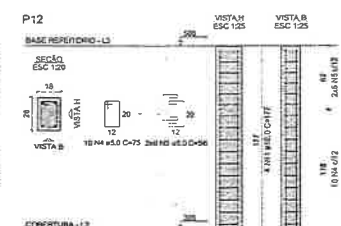
ACO	DIAM (mm)	C.TOTAL (mm)	PESO (kg)
CABO	10.0	234.2	36.1
	12.5	75.1	8.8
	15.0	44.4	7.7
	5.0	53.4	8.2
PESO TOTAL			60.8
CABO			209.7
CABO			99.8

Volume de concreto (C-30) = 3.81 m³
Área de ferro = 63.10 m²

Francisco Wallysson Paiva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 06 741988-4

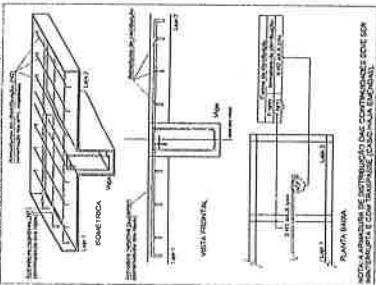
1868

REVISÃO	EMISSÃO INICIAL	ESPICILHA	PROJETO
	ASSUNTO	DATA	RESPONSÁVEL
PROJETO: REFORMA E AMPLIAÇÃO DA CRECHE GERARDO DINIZ DE MENDONÇA			
LOCAL: PREFEITURA MUNICIPAL DE ITAITINGA - CE			
PROJETO: PROJETO DE ARQUITETURA			
PLANO DE COBERTURA DE			
DATA: 11-32			



Francisco Wallysson Silva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE/061741988-4

12-32



NOTA: A distribuição de distribuição das contraindicações deve ser semelhante à de uma distribuição (caso haja evidências).

RELAÇÃO DO ACID

Region	Year	Population	Area	Population Density	Urban Population	Rural Population	Urban Population Density	Rural Population Density
North America	1990	230,000,000	24,000,000	9.6	100,000,000	130,000,000	41.7	7.2
South America	1990	230,000,000	17,000,000	13.5	100,000,000	130,000,000	41.7	7.2
Europe	1990	510,000,000	10,000,000	51.0	200,000,000	310,000,000	20.0	16.0
Asia	1990	3,200,000,000	33,000,000	97.0	1,000,000,000	2,200,000,000	30.3	66.7
Africa	1990	510,000,000	30,000,000	17.0	100,000,000	410,000,000	33.3	5.7
Oceania	1990	30,000,000	9,000,000	3.3	10,000,000	20,000,000	11.1	1.2
World	1990	5,100,000,000	133,000,000	38.4	1,500,000,000	3,600,000,000	11.3	27.1

ALCOHOL	DETAILED	REMARKS
100%	100%	100%
90%	90%	90%
80%	80%	80%
70%	70%	70%
60%	60%	60%
50%	50%	50%
40%	40%	40%
30%	30%	30%
20%	20%	20%
10%	10%	10%
0%	0%	0%

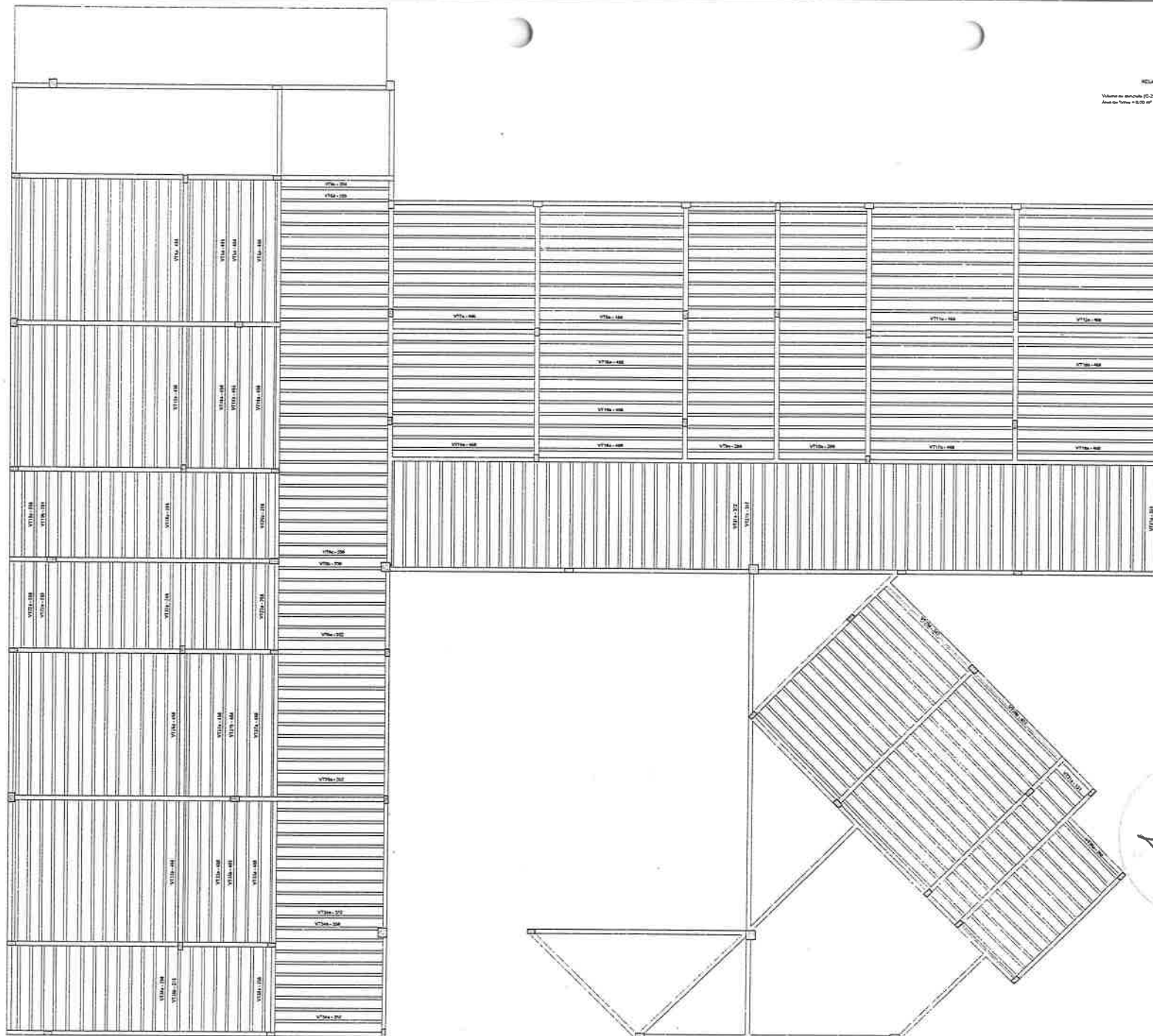
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Francisco Wallysson Moura Magalhães
Prefeitura Municipal de Itaitinga
Engenharia Civil
CREA-CE-068/741988-4

[illegible]

ARMACÃO NEGATIVA DAS LAJES DO PAVIMENTO COBERTURA (EIXO Y)

Volumen des Quaders $(C_{25}) = 0,00$
 Fläche des Quaders $= 0,00 \text{ m}^2$

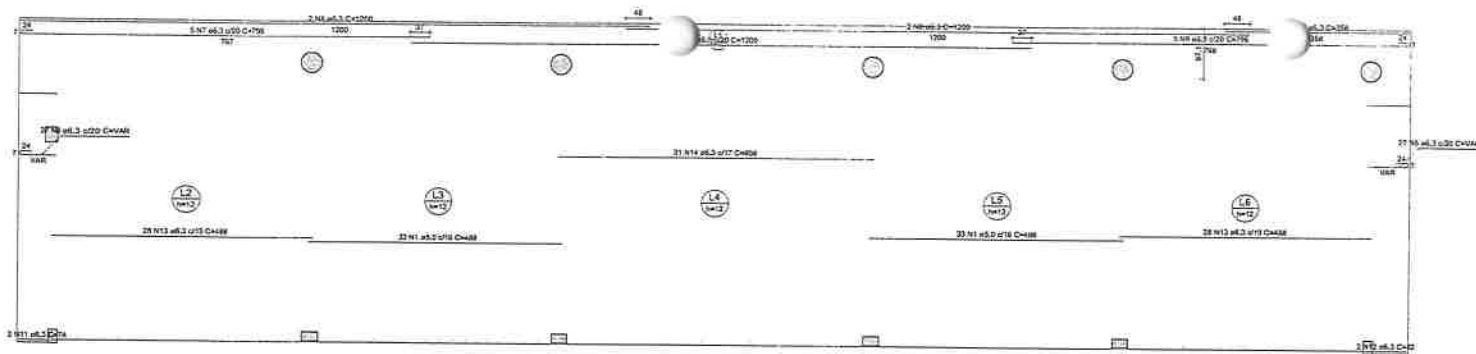


Francisco Wallysson Feiva Magalhães
Prefeitura Municipal de Itaitinga
Engenharia Civil
CREA-CE: 061741988-4

104

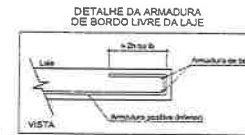
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PLANTA DE VIGOTAS PRÉ-MOLDADAS



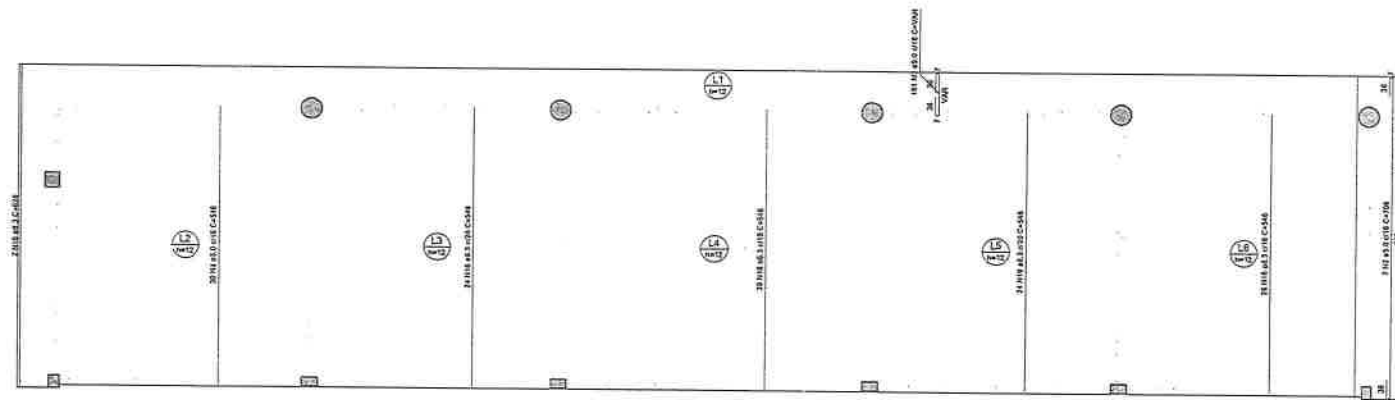
ARMAÇÃO POSITIVA DAS LAJES DO PAVIMENTO BASE REFEITÓRIO (EIXO X)

Escala 1:50



ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT.	C. VAR. (mm)	C. UNIF. (mm)	C. TOTAL (mm)
A	1	64	143	207
B	1	75	150	225

ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT.	C. VAR. (mm)	C. UNIF. (mm)	C. TOTAL (mm)
A	1	64	143	207
B	1	75	150	225
C	1	75	150	225



ARMAÇÃO POSITIVA DAS LAJES DO PAVIMENTO BASE REFEITÓRIO (EIXO Y)

Escala 1:50



ARMADURA COM COMPRIMENTO VARIÁVEL				
Nº	QUANT.	C. VAR. (mm)	C. UNIF. (mm)	C. TOTAL (mm)
A	1	64	143	207
B	1	75	150	225
C	1	75	150	225
D	1	75	150	225
E	1	75	150	225
F	1	75	150	225
G	1	75	150	225
H	1	75	150	225
I	1	75	150	225
J	1	75	150	225
K	1	75	150	225
L	1	75	150	225
M	1	75	150	225
N	1	75	150	225
O	1	75	150	225
P	1	75	150	225
Q	1	75	150	225
R	1	75	150	225
S	1	75	150	225
T	1	75	150	225
U	1	75	150	225
V	1	75	150	225
W	1	75	150	225
X	1	75	150	225
Y	1	75	150	225
Z	1	75	150	225

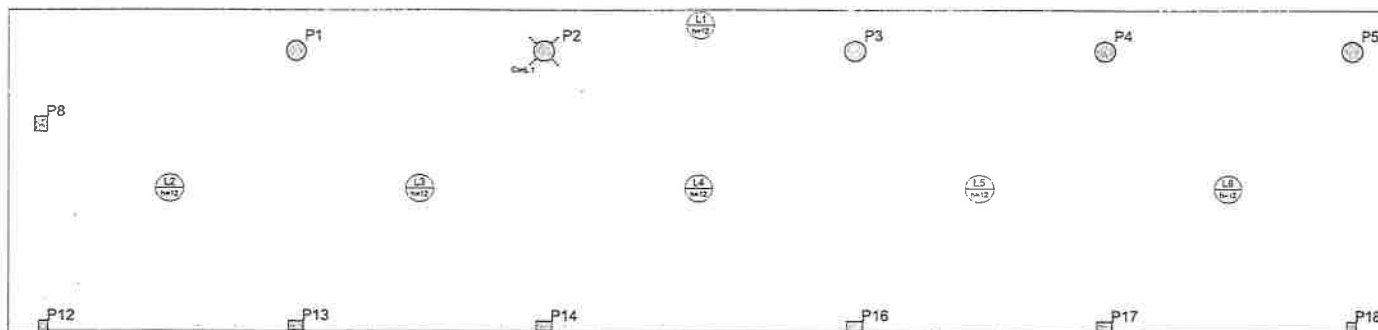
RELAÇÃO DO AÇO				
PROBLEMA X	PROBLEMA Y	PROBLEMA Z	PROBLEMA W	PROBLEMA V
ACQ	N	DIAM (mm)	QUANT.	C. TOTAL (mm)
CASO	1	12	100	1200
CASO	2	12	100	1200
CASO	3	12	100	1200
CASO	4	12	100	1200
CASO	5	12	100	1200
CASO	6	12	100	1200
CASO	7	12	100	1200
CASO	8	12	100	1200
CASO	9	12	100	1200
CASO	10	12	100	1200
CASO	11	12	100	1200
CASO	12	12	100	1200
CASO	13	12	100	1200
CASO	14	12	100	1200
CASO	15	12	100	1200
CASO	16	12	100	1200
CASO	17	12	100	1200
CASO	18	12	100	1200
CASO	19	12	100	1200
CASO	20	12	100	1200
CASO	21	12	100	1200
CASO	22	12	100	1200
CASO	23	12	100	1200
CASO	24	12	100	1200
CASO	25	12	100	1200
CASO	26	12	100	1200
CASO	27	12	100	1200
CASO	28	12	100	1200
CASO	29	12	100	1200
CASO	30	12	100	1200
CASO	31	12	100	1200
CASO	32	12	100	1200
CASO	33	12	100	1200
CASO	34	12	100	1200
CASO	35	12	100	1200
CASO	36	12	100	1200
CASO	37	12	100	1200
CASO	38	12	100	1200
CASO	39	12	100	1200
CASO	40	12	100	1200
CASO	41	12	100	1200
CASO	42	12	100	1200
CASO	43	12	100	1200
CASO	44	12	100	1200
CASO	45	12	100	1200
CASO	46	12	100	1200
CASO	47	12	100	1200
CASO	48	12	100	1200
CASO	49	12	100	1200
CASO	50	12	100	1200

RESUMO DO AÇO				
ACQ	N	DIAM (mm)	QUANT.	C. TOTAL (mm)
CASO	1	12	100	1200
CASO	2	12	100	1200
CASO	3	12	100	1200
CASO	4	12	100	1200
CASO	5	12	100	1200
CASO	6	12	100	1200
CASO	7	12	100	1200
CASO	8	12	100	1200
CASO	9	12	100	1200
CASO	10	12	100	1200
CASO	11	12	100	1200
CASO	12	12	100	1200
CASO	13	12	100	1200
CASO	14	12	100	1200
CASO	15	12	100	1200
CASO	16	12	100	1200
CASO	17	12	100	1200
CASO	18	12	100	1200
CASO	19	12	100	1200
CASO	20	12	100	1200
CASO	21	12	100	1200
CASO	22	12	100	1200
CASO	23	12	100	1200
CASO	24	12	100	1200
CASO	25	12	100	1200
CASO	26	12	100	1200
CASO	27	12	100	1200
CASO	28	12	100	1200
CASO	29	12	100	1200
CASO	30	12	100	1200
CASO	31	12	100	1200
CASO	32	12	100	1200
CASO	33	12	100	1200
CASO	34	12	100	1200
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CASO	36	12	100	1200
CASO	37	12	100	1200
CASO	38	12	100	1200
CASO	39	12	100	1200
CASO	40	12	100	1200
CASO	41	12	100	1200
CASO	42	12	100	1200
CASO	43	12	100	1200
CASO	44	12	100	1200
CASO	45	12	100	1200
CASO	46	12	100	1200
CASO	47	12	100	1200
CASO	48	12	100	1200
CASO	49	12	100	1200
CASO	50	12	100	1200

Volume de concreto (C-25) = 18,55 m³
Área de forma = 150,53 m²

Francisco Wallysson Paiva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 06/741988-4

DI	EMISSÃO INICIAL	DATA	FRANCISCO W. P. MAGALHÃES
REVISÃO	ASSUNTO	DATA	RESPONSÁVEL
TÍTULO: REFORMA E AMPLIAÇÃO DA CRECHE DEBENEDICTO DUARTE MARINHO LOCAL: PREFEITURA MUNICIPAL DE ITAITINGA - CE PROJETO: (assinado)			
CONTINUA: ARMAÇÃO POSITIVA DAS LAJES DO PAV. BASE REFEITÓRIO (EIXO X) ARMAÇÃO POSITIVA DAS LAJES DO PAV. BASE REFEITÓRIO (EIXO Y)			
19-32			IND.

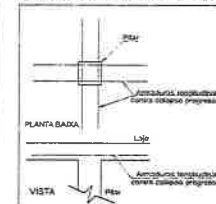


DETALHAMENTO DE PUNÇÃO E CISALHAMENTO DAS LAJES DO PAVIMENTO BASE REFEITÓRIO (NÍVEL 450)

Escala: 1:50

ARMADURA DE PUNÇÃO									
Condição	Quant.	Dim. (mm)	Ac. (mm)	Quant.	Dim. (mm)	Ac. (mm)	Quant.	Dim. (mm)	Ac. (mm)
1	4	16,2x12	CA-20	8,0	8,0	8,0	8,0	8,0	8,0

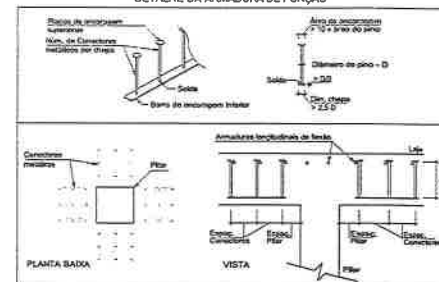
DET. DA ARMADURA CONTRA COLAPSO PROGRESSIVO



RELAÇÃO DO AÇO

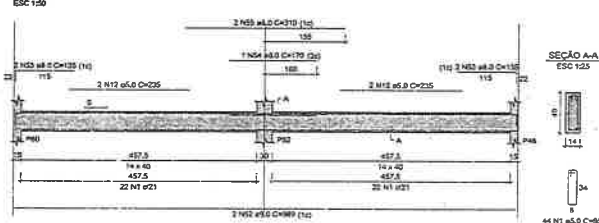
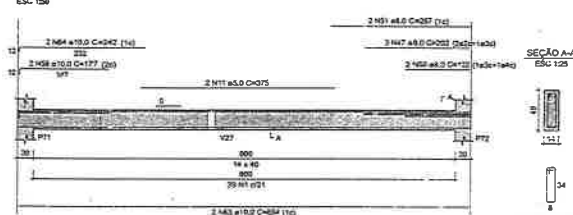
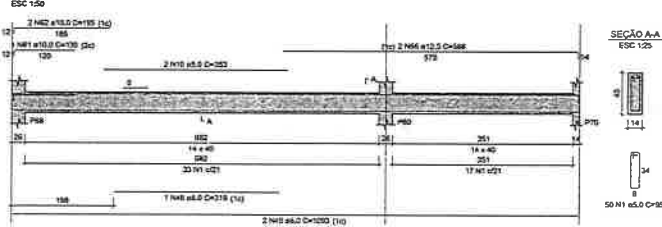
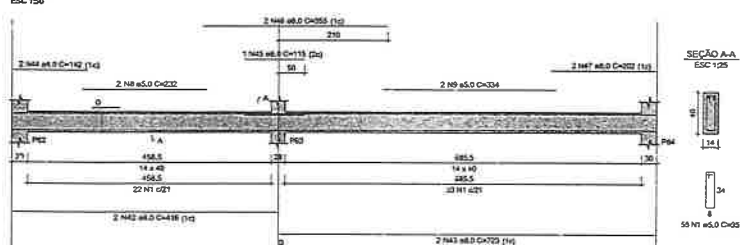
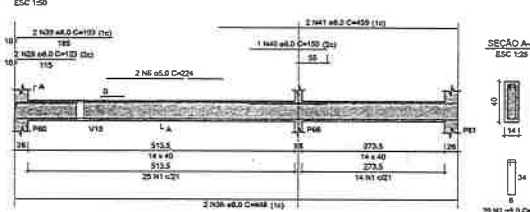
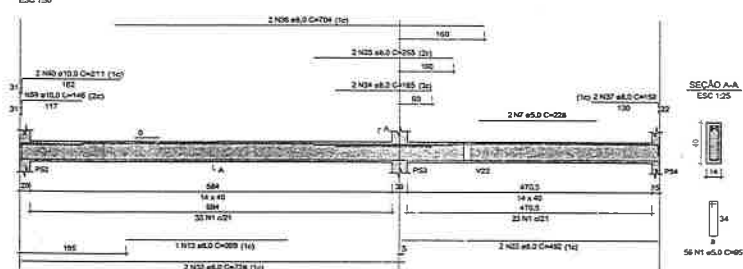
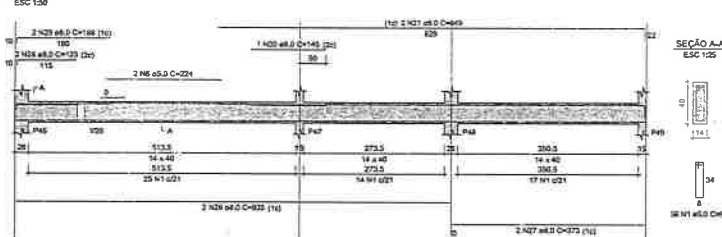
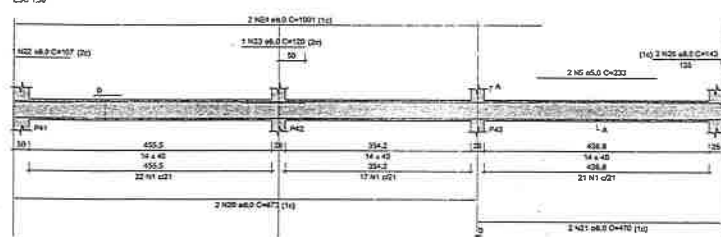
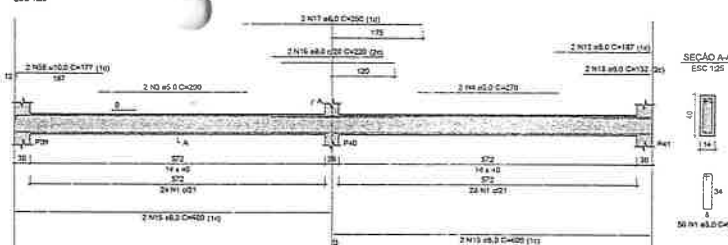
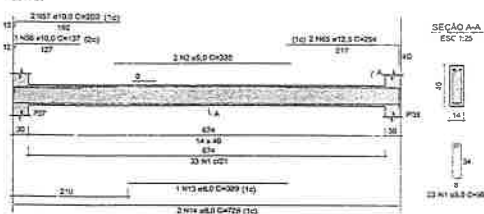
Volum. de concreto (C-25) = 0,00 m³
Área de ferro = 0,00 m²

DETALHE DA ARMADURA DE PUNÇÃO



Francisco Wallyssomirva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 091741988-4

DI	EMISSÃO INICIAL	REVISÃO	FRANCISCO W. P. MAGALHÃES
REVISÃO	ASSINTE	DATA	RESPONSÁVEL
 PREFEITURA MUNICIPAL DE ITAITINGA			
INFORME E APLICAÇÃO DA ORDEM DE SERVIÇO QUELÉZ MANSINHO PREFEITURA MUNICIPAL DE ITAITINGA - CE SERVIÇO: SAFOP ALCUB			
DET. DE PUNÇÃO E CISALHAMENTO DAS LAJES DO PAV. BASE REFEITÓRIO			
20-32			20-32



RELACION DO AÇO					
VR	VR	V/D			
V11	V12	V13			
V14	V15	V16			
WT					
ACQ	N	DIAM	LONG	C/LINHT	C/TOTAL
CAIS	1	0,0	888	50	938
	2	0,0	2	220	220
	3	0,0	2	220	220
	4	0,0	2	220	220
	5	0,0	2	220	220
	6	0,0	2	220	220
	7	0,0	2	220	220
	8	0,0	2	220	220
	9	0,0	2	220	220
	10	0,0	2	220	220
CAIS	11	0,0	2	220	220
	12	0,0	2	220	220
	13	0,0	2	220	220
	14	0,0	2	220	220
	15	0,0	4	428	2436
	16	0,0	2	220	220
	17	0,0	2	220	220
	18	0,0	2	187	374
	19	0,0	2	187	374
	20	0,0	2	187	374
	21	0,0	2	187	374
	22	0,0	2	187	374
	23	0,0	1	125	125
	24	0,0	2	220	220
	25	0,0	2	214	214
	26	0,0	2	214	214
	27	0,0	2	214	214
	28	0,0	2	214	214
	29	0,0	2	214	214
	30	0,0	2	214	214
	31	0,0	2	214	214
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	38	0,0	2	214	214
	39	0,0	2	214	214
	40	0,0	2	214	214
	41	0,0	2	214	214
	42	0,0	2	214	214
	43	0,0	2	214	214
	44	0,0	2	214	214
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95	0,0	2	214	214	
96	0,0	2	214	214	
97	0,0	2	214	214	
98	0,0	2	214	214	
99	0,0	2	214	214	
100	0,0	2	214	214	

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8,0	259,2	155,3
	10,0	48,3	36,7
CA60	12,5	16,8	17,8
	5,0	526	90,7
PESO TOTAL (kg)			
CA50			204,4
CA60			39,7

Volume de concreto (C-30) = 5,82 m³
 Área de forma = 34,46 m²

Volume de concreto (C-30) = 5,62 m³
Área de forma = 34,45 m²

Área de forma = 34,45 m²

Francisco Wallysson Pava Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 0674/1988-4

Prefeitura Municipal de Itaitinga

Engenheiro Civil

CREA-CE: 06741988-4

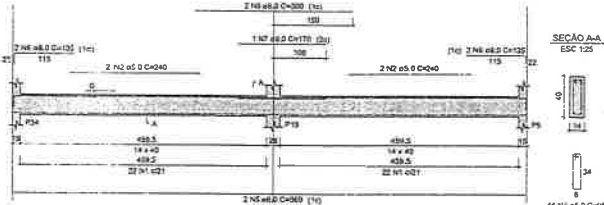
DI	EMISSÃO REGIM.	EMISSOR	FRANCISCO W. P. MAGALHÃES
ESPÉCIE	ASSUNTO	DATA	RESPONSÁVEL



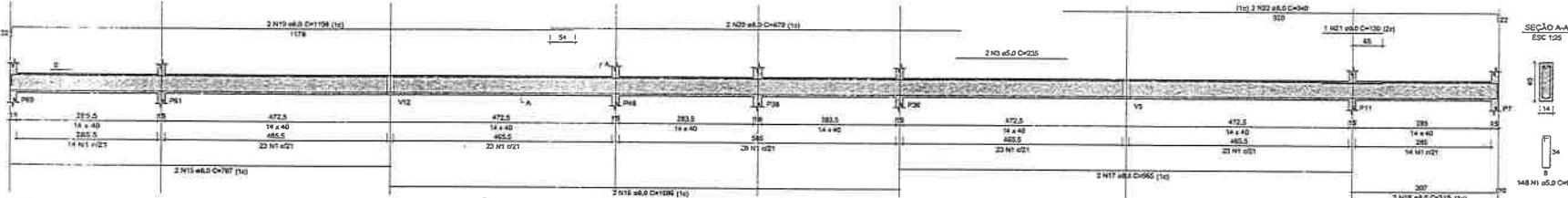
PREFEITURA MUNICIPAL DE
ITAÍTINGA

NOME:	REFORMA E AMPLIAÇÃO DA GRUPO GERVAZIO GUERREIRO MACHADO - GRS	SUBSCRITO POR:	FRANCISCO W. P. MAGALHÃES
ENDEREÇO:	PREFEITURA MUNICIPAL DE ITAITINGA - CE	VIGÊNCIA:	FRANCISCO W. P. MAGALHÃES
CARTEIRA:	BARTHO NACLES		
		SECRETARIA DE ADMINISTRAÇÃO	
DESCRIÇÃO:	VOLTA DO TERMO 22	DIA:	22-32

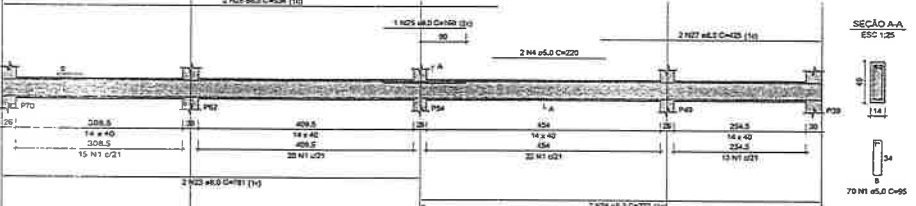
ESC T-50



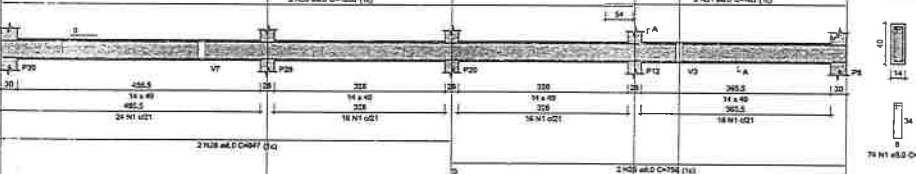
252 123



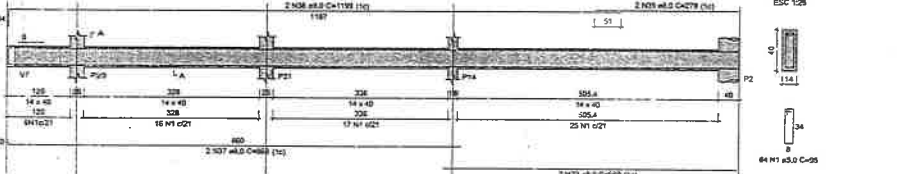
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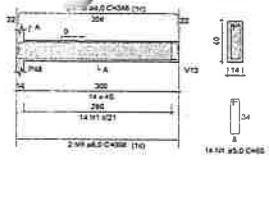
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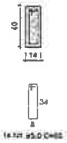
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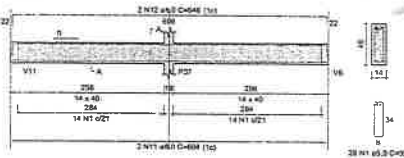
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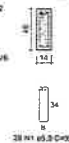
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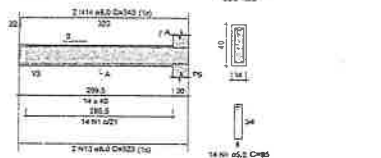
ESC 1:50



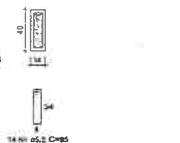
123



ESC 155



550 125



V18	V19	V20	
V21	V22	V23	
AÇO	H	GRAM (mm)	CM ² (mm ²)
SAE 1008	3	3.0	4
SAE 1010	3	3.0	4
SAE 1015	3	3.0	4
SAE 1020	3	3.0	4
SAE 1025	3	3.0	4
SAE 1030	3	3.0	4
SAE 1035	3	3.0	4
SAE 1040	3	3.0	4
SAE 1045	3	3.0	4
SAE 1050	3	3.0	4
SAE 1055	3	3.0	4
SAE 1060	3	3.0	4
SAE 1065	3	3.0	4
SAE 1070	3	3.0	4
SAE 1075	3	3.0	4
SAE 1080	3	3.0	4
SAE 1085	3	3.0	4
SAE 1090	3	3.0	4
SAE 1095	3	3.0	4
SAE 1100	3	3.0	4
SAE 1105	3	3.0	4
SAE 1110	3	3.0	4
SAE 1115	3	3.0	4
SAE 1120	3	3.0	4
SAE 1125	3	3.0	4
SAE 1130	3	3.0	4
SAE 1135	3	3.0	4
SAE 1140	3	3.0	4
SAE 1145	3	3.0	4
SAE 1150	3	3.0	4
SAE 1155	3	3.0	4
SAE 1160	3	3.0	4
SAE 1165	3	3.0	4
SAE 1170	3	3.0	4
SAE 1175	3	3.0	4
SAE 1180	3	3.0	4
SAE 1185	3	3.0	4
SAE 1190	3	3.0	4
SAE 1195	3	3.0	4
SAE 1200	3	3.0	4
SAE 1205	3	3.0	4
SAE 1210	3	3.0	4
SAE 1215	3	3.0	4
SAE 1220	3	3.0	4
SAE 1225	3	3.0	4
SAE 1230	3	3.0	4
SAE 1235	3	3.0	4
SAE 1240	3	3.0	4
SAE 1245	3	3.0	4
SAE 1250	3	3.0	4
SAE 1255	3	3.0	4
SAE 1260	3	3.0	4
SAE 1265	3	3.0	4
SAE 1270	3	3.0	4
SAE 1275	3	3.0	4
SAE 1280	3	3.0	4
SAE 1285	3	3.0	4
SAE 1290	3	3.0	4
SAE 1295	3	3.0	4
SAE 1300	3	3.0	4
SAE 1305	3	3.0	4
SAE 1310	3	3.0	4
SAE 1315	3	3.0	4
SAE 1320	3	3.0	4
SAE 1325	3	3.0	4
SAE 1330	3	3.0	4
SAE 1335	3	3.0	4
SAE 1340	3	3.0	4
SAE 1345	3	3.0	4
SAE 1350	3	3.0	4
SAE 1355	3	3.0	4
SAE 1360	3	3.0	4
SAE 1365	3	3.0	4
SAE 1370	3	3.0	4
SAE 1375	3	3.0	4
SAE 1380	3	3.0	4
SAE 1385	3	3.0	4
SAE 1390	3	3.0	4
SAE 1395	3	3.0	4
SAE 1400	3	3.0	4
SAE 1405	3	3.0	4
SAE 1410	3	3.0	4
SAE 1415	3	3.0	4
SAE 1420	3	3.0	4
SAE 1425	3	3.0	4
SAE 1430	3	3.0	4
SAE 1435	3	3.0	4
SAE 1440	3	3.0	4
SAE 1445	3	3.0	4
SAE 1450	3	3.0	4
SAE 1455	3	3.0	4
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SAE 1465	3	3.0	4
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SAE 1475	3	3.0	4
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SAE 1485	3	3.0	4
SAE 1490	3	3.0	4
SAE 1495	3	3.0	4
SAE 1500	3	3.0	4
SAE 1505	3	3.0	4
SAE 1510	3	3.0	4
SAE 1515	3	3.0	4
SAE 1520	3	3.0	4
SA			

RESUMO DO AÇO

ACO	DIAM. (mm)	C.TOTAL (m)	PESO = 10% Nº
CASO CAÇO	8,0 3,0	251,1 311,8	195,0 56,0

**PESO TOTAL
(kg)**

CASO	195,0
CAÇO	56,0

VOLUME DE CONCRETO (C-20) = 5,92 m³
 Área de forma = 99,23 m²

Francisco Wallysson Paiva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 061.741988-4

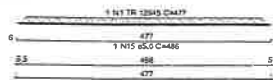
PROJETO	REFORMA E AMPLIAÇÃO DA CRECHE GERVASIO OLIVEIRA MARRELLA	PROPOSTA Nº	FRANCISCO W.P. MAGALHÃES
PROJETO	PROJETURA MUNICIPAL DE ITATINGA - CE	PROPOSTA Nº	FRANCISCO W.P. MAGALHÃES
PROJETO	BARRO ANILAS	PROPOSTA Nº	FRANCISCO W.P. MAGALHÃES

PROJETO Nº 001/2010

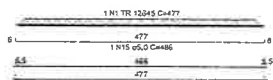
VICAR DO TERRENO 35

23-32

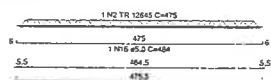
VT4a (14 unidades)
(L4)
ESC 1:50



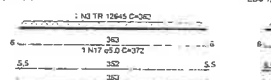
VT5a (6 unidades)
(L5)
ESC 1:50



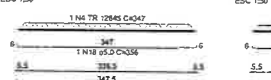
VT5b (1 unidades)
(L5)
ESC 1:50



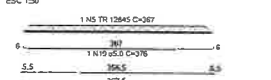
VT6a (6 unidades)
(L6)
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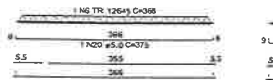
VT6b (1 unidades)
(L6)
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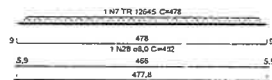
VT6c (31 unidades)
(L6)
ESC 1:50



VT6d (1 unidades)
(L6)
ESC 1:50



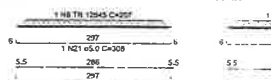
VT7a (10 unidades)
(L7)
ESC 1:50



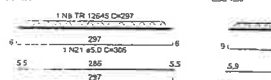
VT8a (10 unidades)
(L8)
ESC 1:50



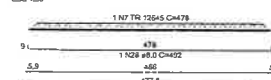
VT9a (21 unidades)
(L9)
ESC 1:50



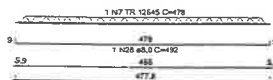
VT10a (21 unidades)
(L10)
ESC 1:50



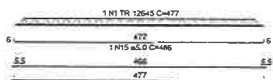
VT11a (10 unidades)
(L11)
ESC 1:50



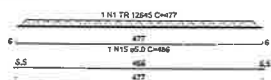
VT12a (10 unidades)
(L12)
ESC 1:50



VT13a (14 unidades)
(L13)
ESC 1:50



VT14a (6 unidades)
(L14)
ESC 1:50



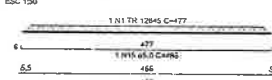
VT14b (1 unidades)
(L14)
ESC 1:50



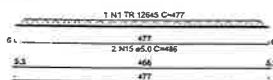
VT15a (10 unidades)
(L15)
ESC 1:50



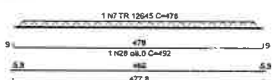
VT16a (6 unidades)
(L16)
ESC 1:50



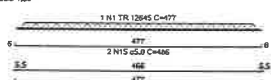
VT16b (4 unidades)
(L16)
ESC 1:50



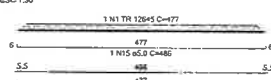
VT17a (10 unidades)
(L17)
ESC 1:50



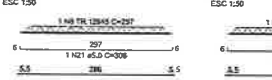
VT18a (7 unidades)
(L18)
ESC 1:50



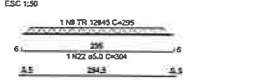
VT18b (3 unidades)
(L18)
ESC 1:50



VT19a (12 unidades)
(L19)
ESC 1:50



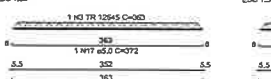
VT19b (1 unidades)
(L19)
ESC 1:50



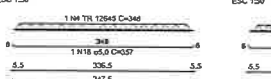
VT20a (7 unidades)
(L20)
ESC 1:50



VT21a (64 unidades)
(L21)
ESC 1:50



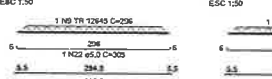
VT21b (1 unidades)
(L21)
ESC 1:50



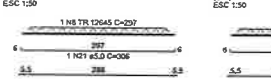
VT22a (12 unidades)
(L22)
ESC 1:50



VT22b (1 unidades)
(L22)
ESC 1:50



VT23a (7 unidades)
(L23)
ESC 1:50



VT25a (16 unidades)
(L25)
ESC 1:50



VT26a (14 unidades)
(L26)
ESC 1:50



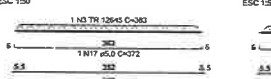
VT27a (6 unidades)
(L27)
ESC 1:50



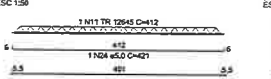
VT27b (1 unidades)
(L27)
ESC 1:50



VT28a (11 unidades)
(L28)
ESC 1:50



VT29a (16 unidades)
(L29)
ESC 1:50



VT31a (15 unidades)
(L31)
ESC 1:50



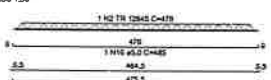
VT32a (14 unidades)
(L32)
ESC 1:50



VT33a (6 unidades)
(L33)
ESC 1:50



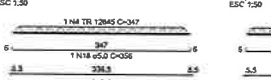
VT33b (1 unidades)
(L33)
ESC 1:50



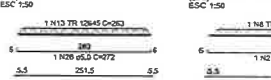
VT34a (18 unidades)
(L34)
ESC 1:50



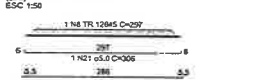
VT34b (1 unidades)
(L34)
ESC 1:50



VT36a (13 unidades)
(L36)
ESC 1:50



VT38a (20 unidades)
(L38)
ESC 1:50



VT38b (1 unidades)
(L38)
ESC 1:50



RELACÃO DO AÇO

ACO	M	DIAM (mm)	QUANT	CUMUL (cm)	C.TOTAL (cm)
CA50	1	12	158	477	47700
	2	12	3	478	1580
	3	12	88	383	36327
	4	12	3	347	1194
	5	12	31	361	11377
	6	12	1	286	364
	7	12	60	426	28840
	8	12	109	357	29159
	9	12	2	290	500
	10	12	16	308	6560
	11	12	16	412	6612
	12	12	15	162	2130
	13	12	13	383	34118
	14	12	1	285	286
	15	12	111	446	83046
	16	12	4	484	1506
	17	12	58	372	26629
	18	12	2	286	1064
	19	12	31	376	11836
	20	12	1	275	275
	21	12	100	206	30600
	22	12	9	16	8212
	23	12	16	407	6706
	24	12	14	401	4736
	25	12	15	151	2245
	26	12	13	222	2636
	27	12	1	222	222
	28	12	80	452	29520

RESUMO DO AÇO

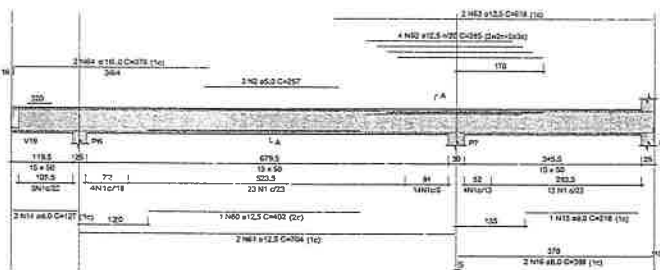
ACO	DIAM (mm)	CUMUL (cm)	PESO x 1000 (kg)
CA50	12	128.1	128.1
CA50	12	1560.7	1560.7
CA50	12	1762.3	1762.3
PESO TOTAL		128.1	128.1
CA50	12	128.1	128.1

Volume de concreto (C-25) = 0.00 m³
Área de forma = 0.00 m²

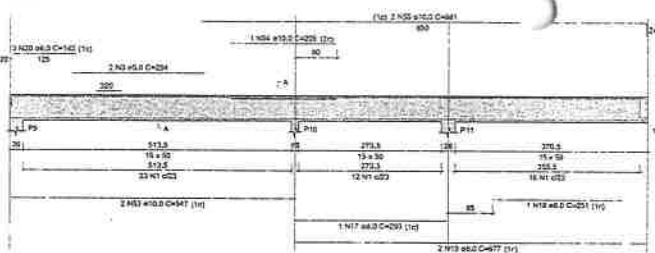
Francisco Wailysso de Faria Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 06741988-4

DI	EMISSÃO INICIAL	03/05/2018	FRANCISCO W. F. MAGALHÃES
REVISÃO	ASSUNTO	DATA	RESPONSÁVEL
 PREFEITURA MUNICIPAL DE ITAITINGA			
PROJETO: REFORMA E AMPLIAÇÃO DA CRECHE DEPTENSO OCEANO MARINHO - IPIRANGA - FRANCISCO W. F. MAGALHÃES LOCAL: PREFEITURA MUNICIPAL DE ITAITINGA - CE FUNDO: BARRIO ANILIM DATA: 03/05/2018 ASSINADO: FRANCISCO W. F. MAGALHÃES			
EMISSÃO: VIGÊNCIA DO TOPO DO RELEVAMENTO DATA: 03/05/2018 ASSINADO: FRANCISCO W. F. MAGALHÃES			

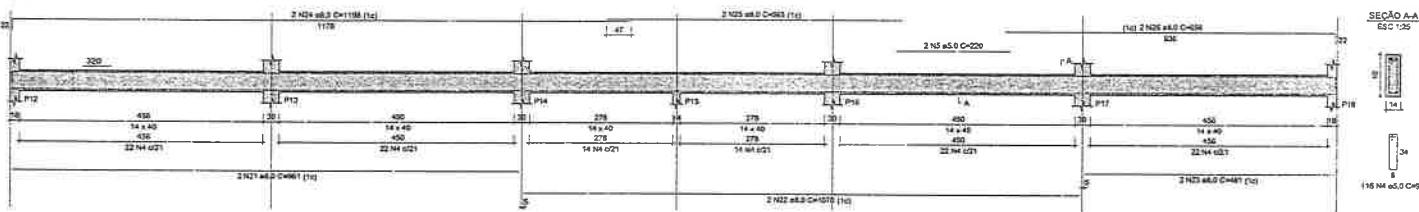
V1
ESC 1:50



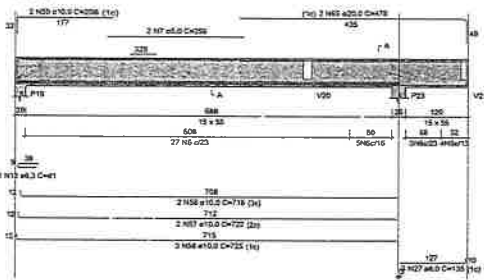
V2
ESC 1:50



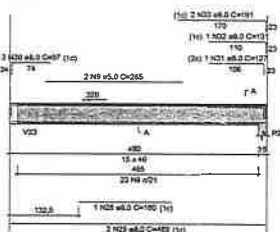
V3
ESC 1:50



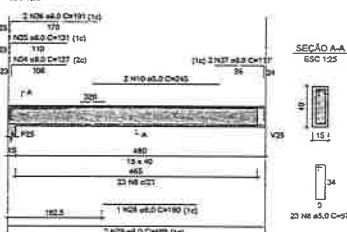
V4
ESC 1:50



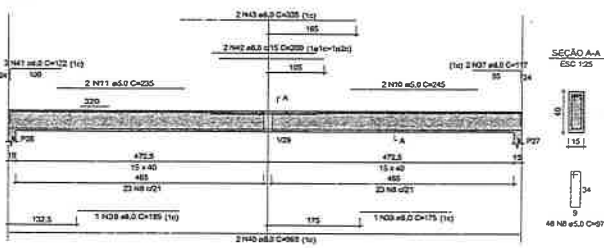
V5
ESC 1:50



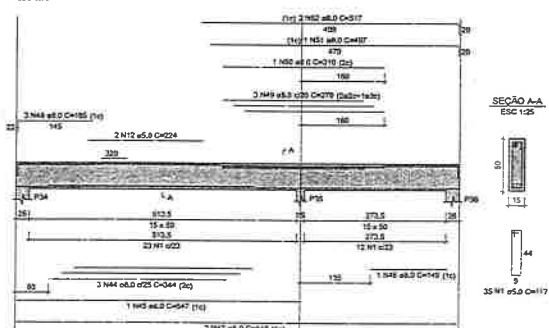
V6
ESC 1:50



V7
ESC 1:50



V8
ESC 1:50



RELACÃO DO AÇO

ACAO	N	DIM (mm)	QUANT	CLASSE	C. TOTAL (mm)
CABO	1	140	140	140	140
	2	140	140	140	140
	3	140	140	140	140
	4	140	140	140	140
	5	140	140	140	140
	6	140	140	140	140
	7	140	140	140	140
	8	140	140	140	140
	9	140	140	140	140
	10	140	140	140	140
CABO	11	140	140	140	140
	12	140	140	140	140
	13	140	140	140	140
	14	140	140	140	140
	15	140	140	140	140
	16	140	140	140	140
	17	140	140	140	140
	18	140	140	140	140
	19	140	140	140	140
	20	140	140	140	140

REGULAO DO AÇO

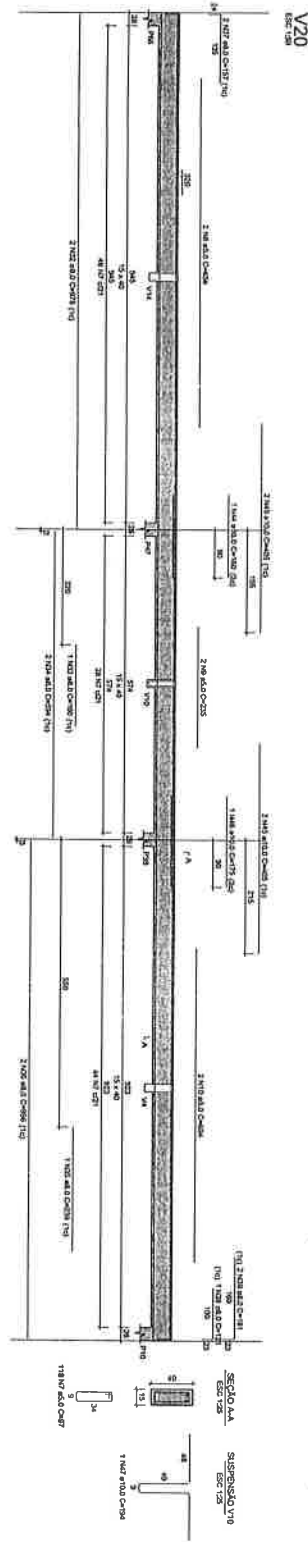
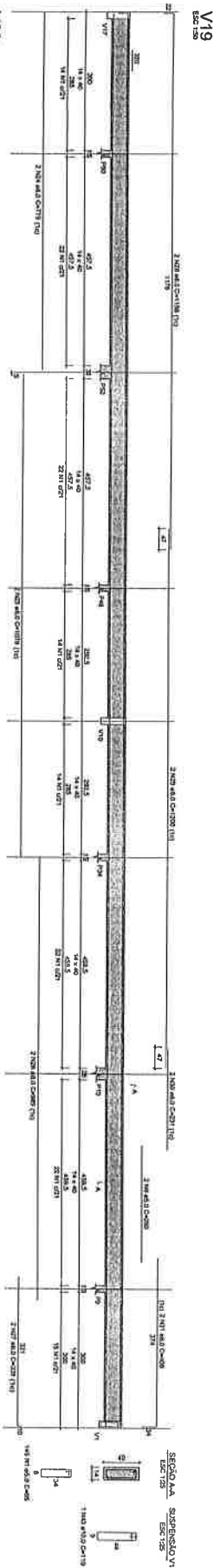
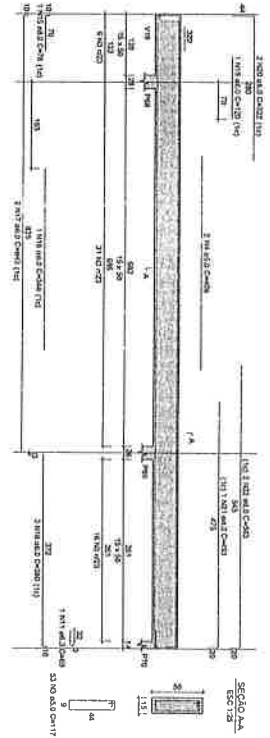
ACAO	DIM (mm)	CLASSE	QUANT	PESO = 10% (kg)
CABO	140	140	140	140
CABO	140	140	140	140
CABO	140	140	140	140
CABO	140	140	140	140
CABO	140	140	140	140
CABO	140	140	140	140
CABO	140	140	140	140
CABO	140	140	140	140
CABO	140	140	140	140
CABO	140	140	140	140

Volume de concreto (C-30) = 5,44 m³

Area da forma = 84,22 m²

Francisco Wallysson Silva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 06/741988-4

DI	EMISSÃO FINAL	03/2008	FRANCISCO W. P. MAGALHÃES
REVISÃO	ASSUNTO	DATA	RESPONSÁVEL
PROJETO: REFORMA E AMPLIAÇÃO DA OBRHA DE VAGUÃO QUERQUEZ MARANHÃO - 1411 FRANCISCO W. P. MAGALHÃES LOCAL: PREFEITURA MUNICIPAL DE ITAITINGA - CE 06/741988-4 FRANCISCO W. P. MAGALHÃES PROJETO: SANEAMENTO BÁSICO - 1411 FRANCISCO W. P. MAGALHÃES			
CATEGORIA: VAGA DO SUBSTANTIVO Nº 1411 06/741988-4 1411			

V17
ESC 150

Francisco Wallysson Fátima Magalhães
Prefeitura Municipal de Itatinga
Engenharia Civil
CREA-CE: 061741988-4

[illegible]

ACC	DOSE (mm)	C-TOTAL (h)	PSD - 50N (Pa)
CASU	5.3	0.7	0.2
	10.0	304.5	138.2
	12.5	4.5	28.2
	12.5	5.4	5.7
	18.0	8.2	3.7
CASU	2.0	401.8	28.2
PSD TOTAL (N)			
CASU	177.2		
CASU	78.3		

Volume da concreto (C-30) = 5,13 m³
 Área da forma = 62,26 m²

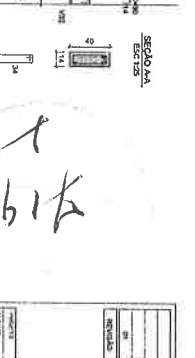
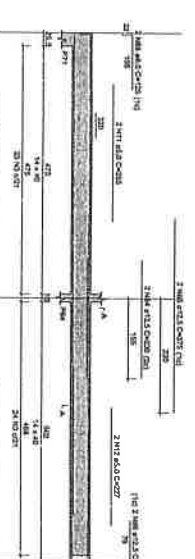
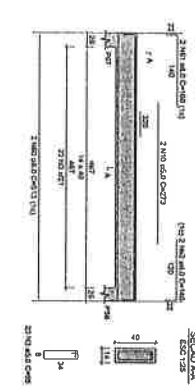
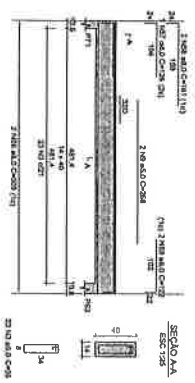
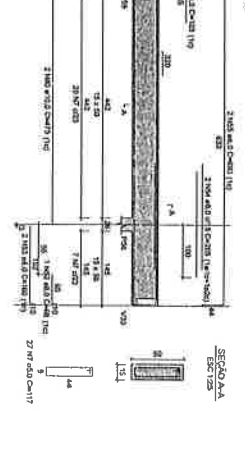
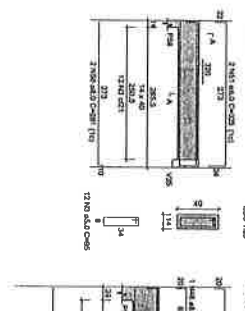
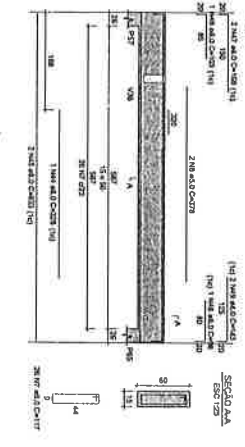
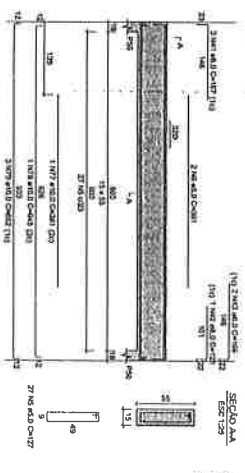
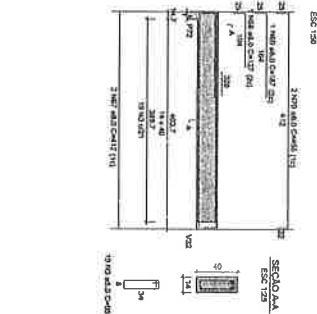
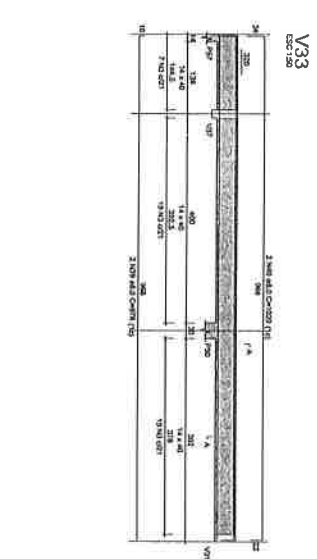
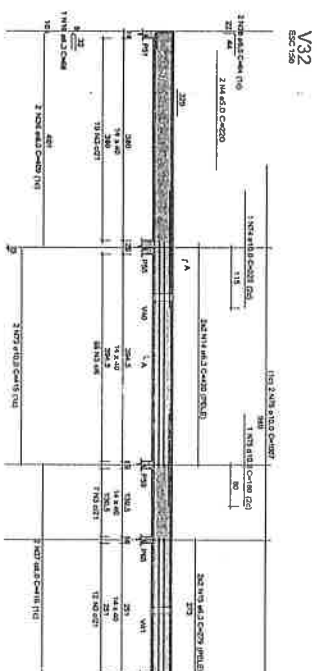
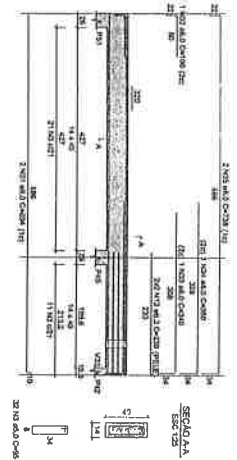
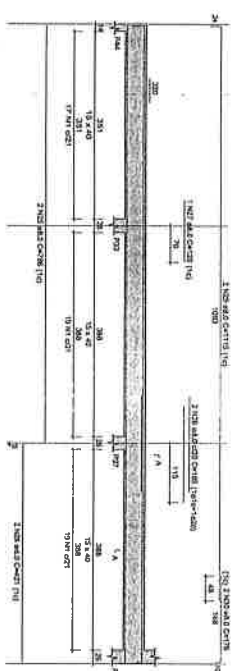
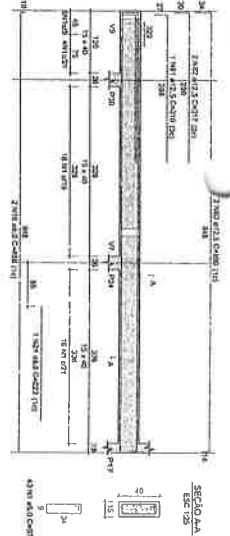
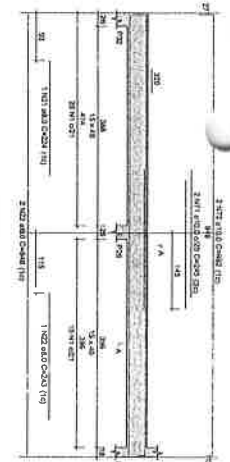
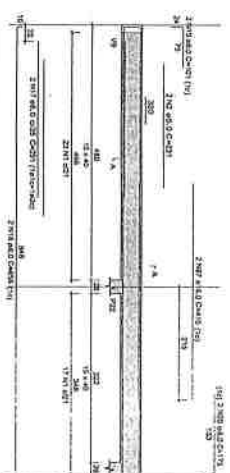


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Allyson da Silva Magalhães
Municipal de Itaitinga
engenheiro Civil
CE: 081741988-4

31-32



Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100	Q101	Q102	Q103	Q104	Q105	Q106	Q107	Q108	Q109	Q110	Q111	Q112	Q113	Q114	Q115	Q116	Q117	Q118	Q119	Q120	Q121	Q122	Q123	Q124	Q125	Q126	Q127	Q128	Q129	Q130	Q131	Q132	Q133	Q134	Q135	Q136	Q137	Q138	Q139	Q140	Q141	Q142	Q143	Q144	Q145	Q146	Q147	Q148	Q149	Q150	Q151	Q152	Q153	Q154	Q155	Q156	Q157	Q158	Q159	Q160	Q161	Q162	Q163	Q164	Q165	Q166	Q167	Q168	Q169	Q170	Q171	Q172	Q173	Q174	Q175	Q176	Q177	Q178	Q179	Q180	Q181	Q182	Q183	Q184	Q185	Q186	Q187	Q188	Q189	Q190	Q191	Q192	Q193	Q194	Q195	Q196	Q197	Q198	Q199	Q200	Q201	Q202	Q203	Q204	Q205	Q206	Q207	Q208	Q209	Q210	Q211	Q212	Q213	Q214	Q215	Q216	Q217	Q218	Q219	Q220	Q221	Q222	Q223	Q224	Q225	Q226	Q227	Q228	Q229	Q230	Q231	Q232	Q233	Q234	Q235	Q236	Q237	Q238	Q239	Q240	Q241	Q242	Q243	Q244	Q245	Q246	Q247	Q248	Q249	Q250	Q251	Q252	Q253	Q254	Q255	Q256	Q257	Q258	Q259	Q260	Q261	Q262	Q263	Q264	Q265	Q266	Q267	Q268	Q269	Q270	Q271	Q272	Q273	Q274	Q275	Q276	Q277	Q278	Q279	Q280	Q281	Q282	Q283	Q284	Q285	Q286	Q287	Q288	Q289	Q290	Q291	Q292	Q293	Q294	Q295	Q296	Q297	Q298	Q299	Q300	Q301	Q302	Q303	Q304	Q305	Q306	Q307	Q308	Q309	Q310	Q311	Q312	Q313	Q314	Q315	Q316	Q317	Q318	Q319	Q320	Q321	Q322	Q323	Q324	Q325	Q326	Q327	Q328	Q329	Q330	Q331	Q332	Q333	Q334	Q335	Q336	Q337	Q338	Q339	Q340	Q341	Q342	Q343	Q344	Q345	Q346	Q347	Q348	Q349	Q350	Q351	Q352	Q353	Q354	Q355	Q356	Q357	Q358	Q359	Q360	Q361	Q362	Q363	Q364	Q365	Q366	Q367	Q368	Q369	Q370	Q371	Q372	Q373	Q374	Q375	Q376	Q377	Q378	Q379	Q380	Q381	Q382	Q383	Q384	Q385	Q386	Q387	Q388	Q389	Q390	Q391	Q392	Q393	Q394	Q395	Q396	Q397	Q398	Q399	Q400	Q401	Q402	Q403	Q404	Q405	Q406	Q407	Q408	Q409	Q410	Q411	Q412	Q413	Q414	Q415	Q416	Q417	Q418	Q419	Q420	Q421	Q422	Q423	Q424	Q425	Q426	Q427	Q428	Q429	Q430	Q431	Q432	Q433	Q434	Q435	Q436	Q437	Q438	Q439	Q440	Q441	Q442	Q443	Q444	Q445	Q446	Q447	Q448	Q449	Q450	Q451	Q452	Q453	Q454	Q455	Q456	Q457	Q458	Q459	Q460	Q461	Q462	Q463	Q464	Q465	Q466	Q467	Q468	Q469	Q470	Q471	Q472	Q473	Q474	Q475	Q476	Q477	Q478	Q479	Q480	Q481	Q482	Q483	Q484	Q485	Q486	Q487	Q488
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ADD	EMAL	C-TOTAL	FEED + 10%
(mm)	(mm)	(mm)	(mm)
CASO	6.3	34.0	13.4
	48.0	37.8	44.7
	18.8	37.8	44.7
	12.7	41.1	43.8
CAGE	6.3	40.2	14.4
	25.0	26.2	14.7

FEED TOTAL

FEED

CASO 2294

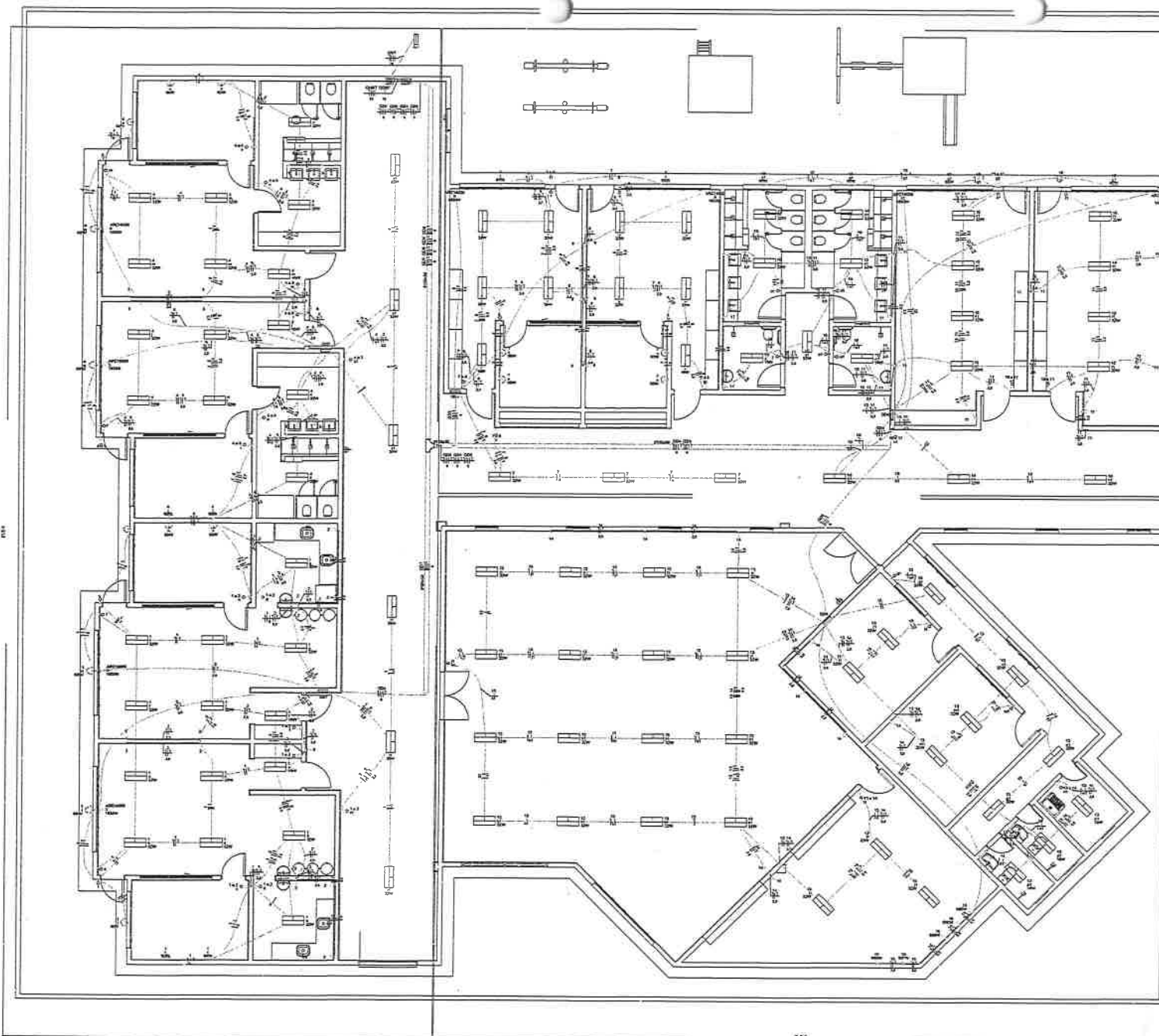
CAGE 102.1

Wetland (Wetland) area (CAGE) = 4.46 m²

Wetland area = 75.1 m²

Francisco Wallacyr de Souza Magalhães
Prefeitura Municipal de Itatinga
Engenheiro Civil
CREA-CE: 054741988-4

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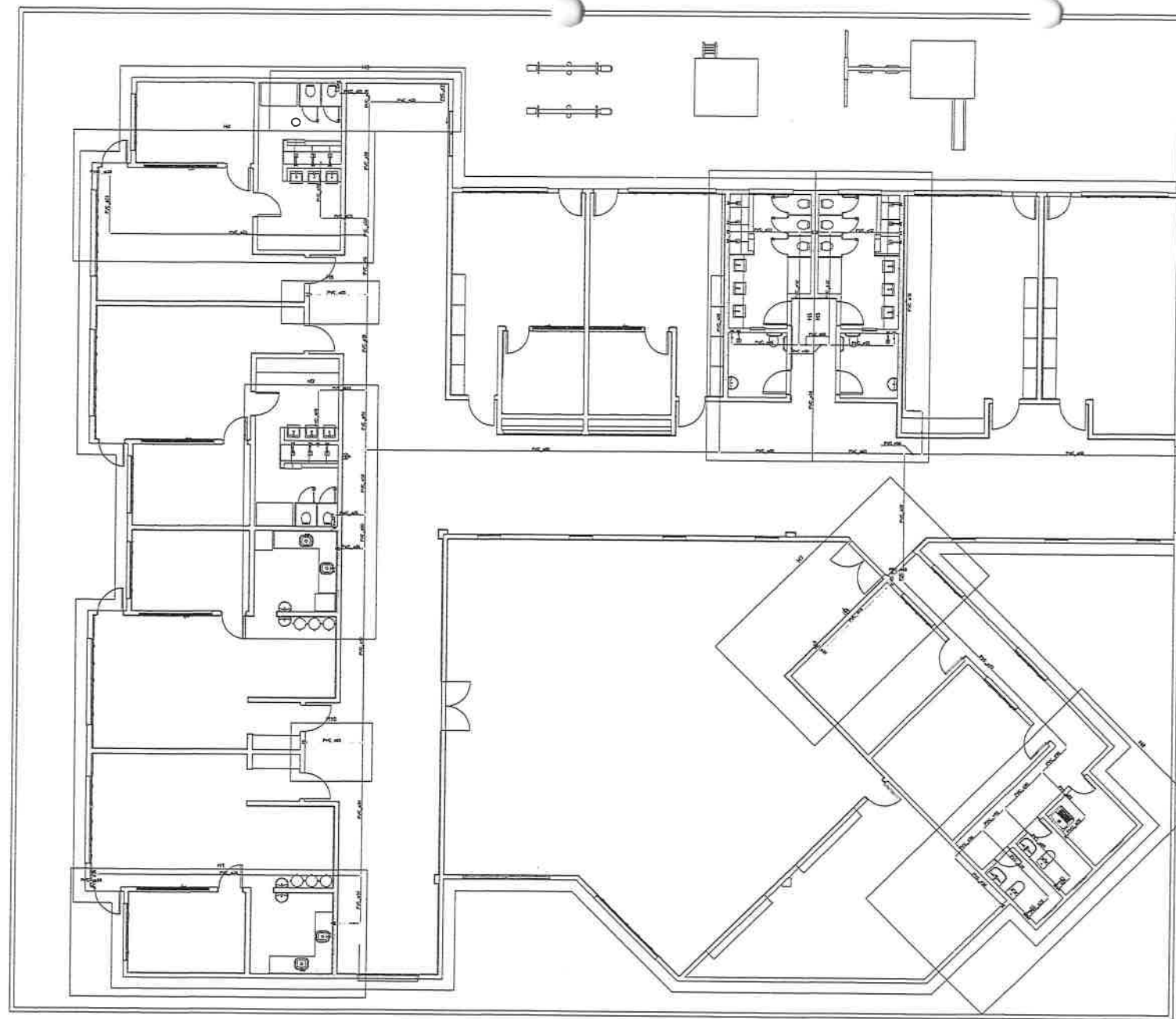
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1	Interruptor 20A	unidade
1	Interruptor 30A	unidade
1	Interruptor 40A	unidade
1	Interruptor 50A	unidade
1	Interruptor 60A	unidade
1	Interruptor 70A	unidade
1	Interruptor 80A	unidade
1	Interruptor 90A	unidade
1	Interruptor 100A	unidade

Quantidade	Descrição	Unidade
1	Interruptor 10A	unidade
1	Interruptor 20A	unidade
1	Interruptor 30A	unidade
1	Interruptor 40A	unidade
1	Interruptor 50A	unidade
1	Interruptor 60A	unidade
1	Interruptor 70A	unidade
1	Interruptor 80A	unidade
1	Interruptor 90A	unidade
1	Interruptor 100A	unidade

Quantidade	Descrição	Unidade
1	Interruptor 10A	unidade
1	Interruptor 20A	unidade
1	Interruptor 30A	unidade
1	Interruptor 40A	unidade
1	Interruptor 50A	unidade
1	Interruptor 60A	unidade
1	Interruptor 70A	unidade
1	Interruptor 80A	unidade
1	Interruptor 90A	unidade
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Engenheiro Civil
CREA-CE 068741988-4

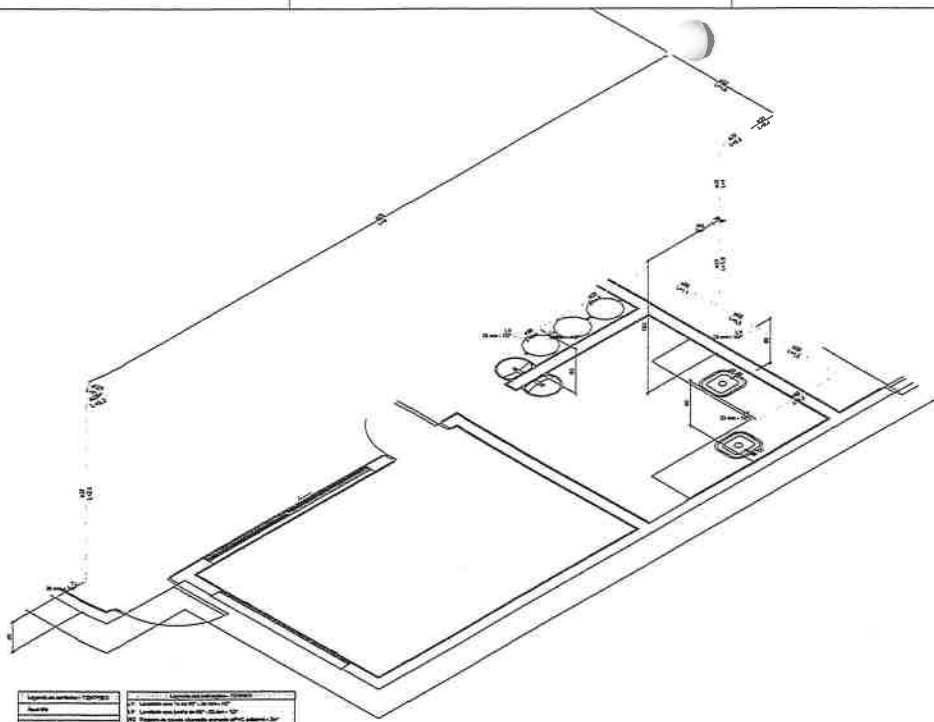
INST. HIDRÁULICAS TÉRREO
PLANTA BAIXA - ESC. 1:50



Legenda	
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4.0	4.0
5.0	5.0
6.0	6.0
7.0	7.0
8.0	8.0
9.0	9.0
10.0	10.0
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12.0	12.0
13.0	13.0
14.0	14.0
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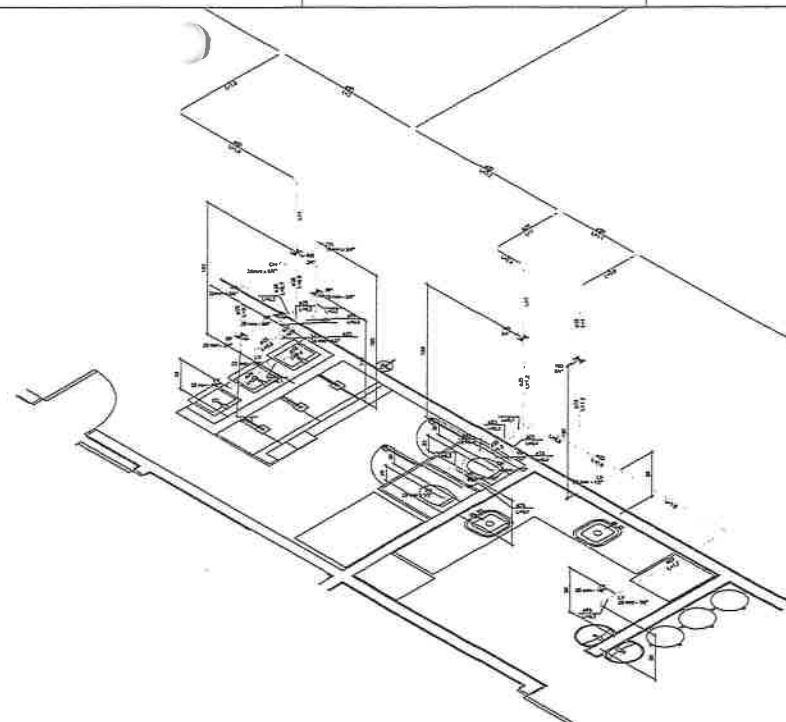
Francisco Wallysson Paiva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE/061741988-4

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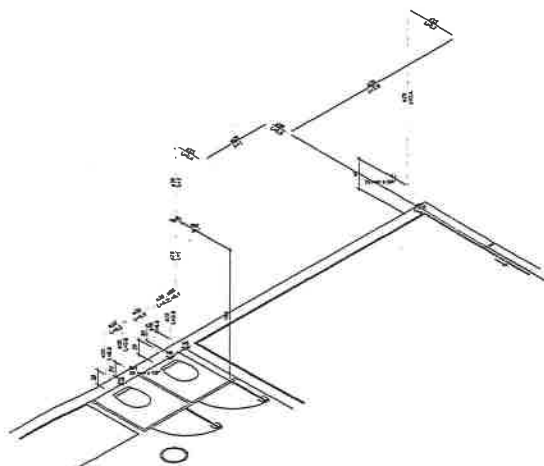
Legenda de materiais - Tabela 1	Legenda de materiais - Tabela 2
Revestimento	1.1. Revestimento em 1/2" de 1/2" de 1/2"
Revestimento	1.2. Revestimento em 1/2" de 1/2" de 1/2"
Revestimento	1.3. Revestimento em 1/2" de 1/2" de 1/2"

DETALHE H1
PLANTA BAIXA - ESC. 1:25



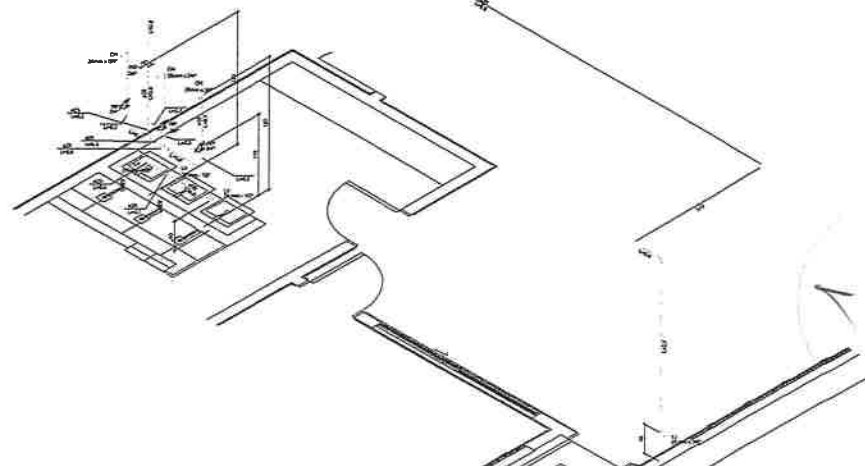
Legenda de materiais - Tabela 1	Legenda de materiais - Tabela 2
Revestimento	1.1. Revestimento em 1/2" de 1/2" de 1/2"
Revestimento	1.2. Revestimento em 1/2" de 1/2" de 1/2"
Revestimento	1.3. Revestimento em 1/2" de 1/2" de 1/2"

DETALHE H2
PLANTA BAIXA - ESC. 1:25



DETALHE H3
PLANTA BAIXA - ESC. 1:25

Legenda de materiais - Tabela 1	Legenda de materiais - Tabela 2
Revestimento	1.1. Revestimento em 1/2" de 1/2" de 1/2"
Revestimento	1.2. Revestimento em 1/2" de 1/2" de 1/2"
Revestimento	1.3. Revestimento em 1/2" de 1/2" de 1/2"

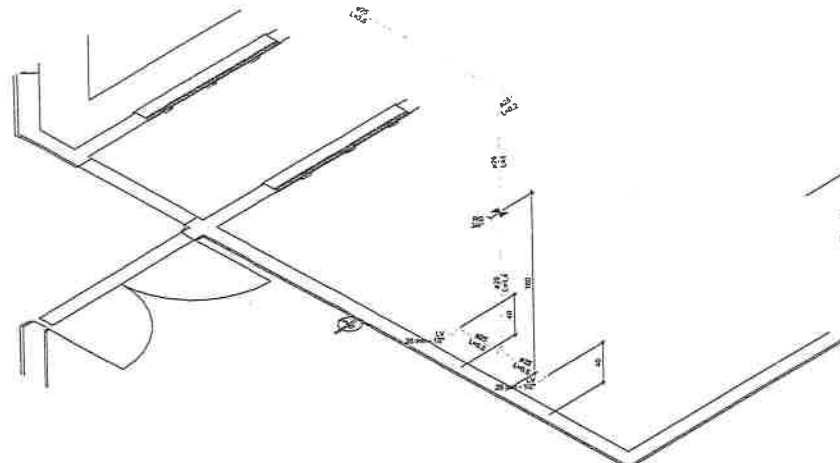


DETALHE H4
PLANTA BAIXA - ESC. 1:25

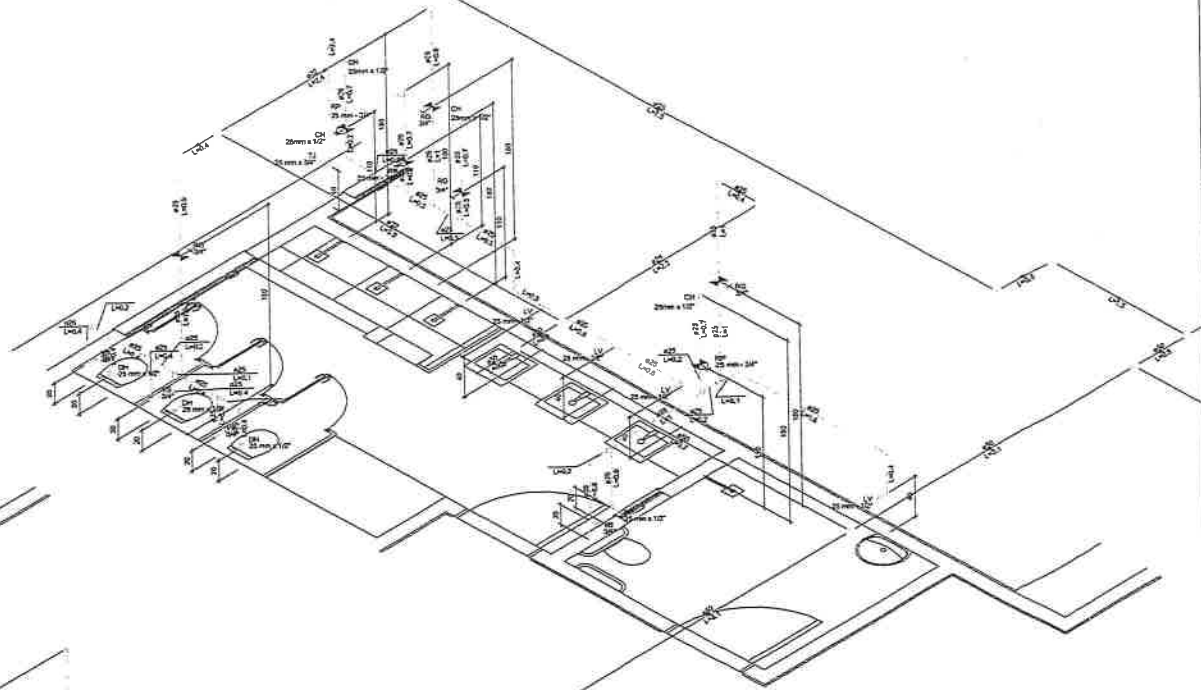
Legenda de materiais - Tabela 1	Legenda de materiais - Tabela 2
Revestimento	1.1. Revestimento em 1/2" de 1/2" de 1/2"
Revestimento	1.2. Revestimento em 1/2" de 1/2" de 1/2"
Revestimento	1.3. Revestimento em 1/2" de 1/2" de 1/2"

Francisco Walmirson Paiva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE 061.061741988-4

EMPRESA NACIONAL		EMPRESA LOCAL		EMPRESA DE PROJEÇÃO	
EMPRESA	EMPRESA	EMPRESA	EMPRESA	EMPRESA	EMPRESA
EMPRESA NACIONAL EMPRESA LOCAL EMPRESA DE PROJEÇÃO					
EMPRESA NACIONAL EMPRESA LOCAL EMPRESA DE PROJEÇÃO					



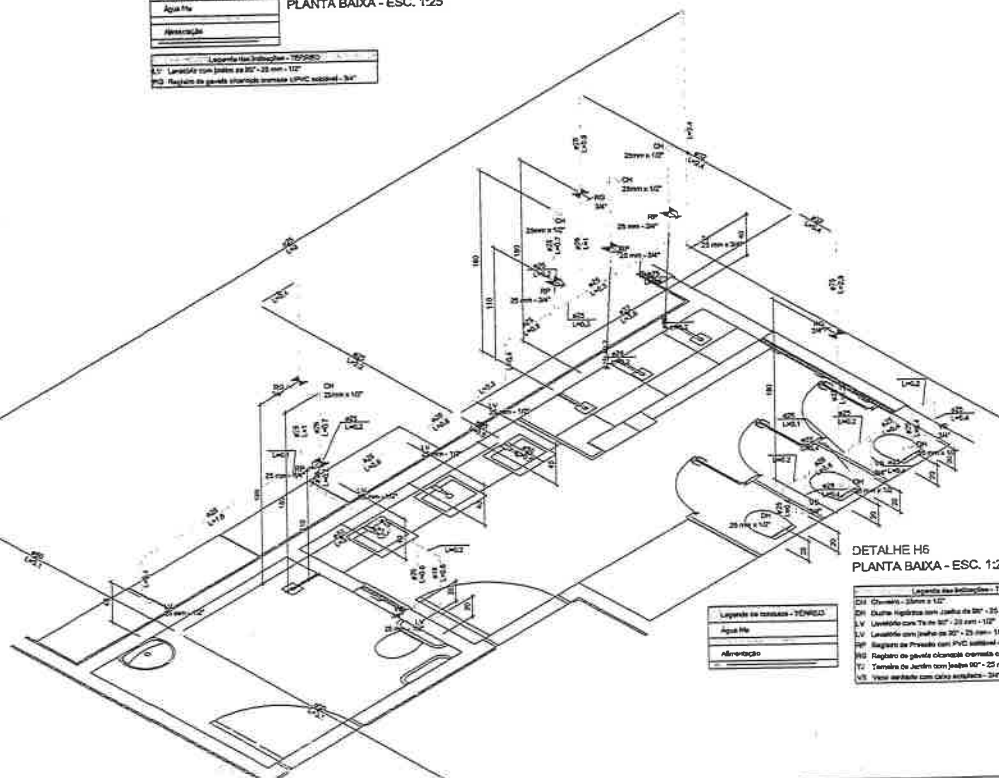
Legenda de acabamentos - TERREÇO	DETALHE H7
Acabamento	PLANTA BAIXA - ESC. 1:25
Alimentação	
Legenda das Instalações - TERREÇO	
1.1. Lameira com jato de 50" - 25 mm x 1/2"	
1.2. Registo de parede com jato de 50" - 25 mm x 1/2"	



Legenda das Instalações - TERREÇO
1.1. Chaveira - 50" x 1/2"
1.2. Duto Hidráulico com jato de 50" - 25 mm x 1/2"
1.3. Lameira com jato de 50" - 25 mm x 1/2"
1.4. Lameira com jato de 50" - 25 mm x 1/2"
1.5. Registo de parede com PVC isolado - 25 mm x 3/4"
1.6. Registo de parede com PVC isolado - 25 mm x 3/4"
1.7. Tenda de jato de 50" - 25 mm x 3/4"
1.8. Vaso sanitário com jato de 50" - 25 mm x 3/4"

Legenda de acabamentos - TERREÇO
Acabamento
Alimentação

DETALHE H5
PLANTA BAIXA - ESC. 1:25



Legenda de acabamentos - TERREÇO
Acabamento
Alimentação

DETALHE H6
PLANTA BAIXA - ESC. 1:25

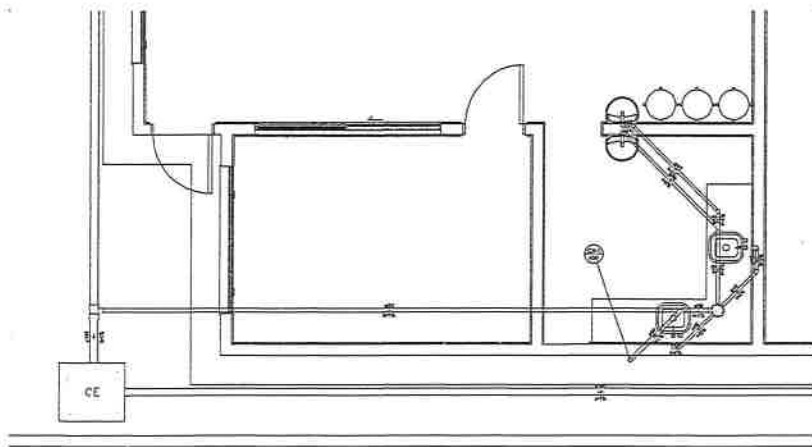
Legenda das Instalações - TERREÇO
1.1. Chaveira - 50" x 1/2"
1.2. Duto Hidráulico com jato de 50" - 25 mm x 1/2"
1.3. Lameira com jato de 50" - 25 mm x 1/2"
1.4. Lameira com jato de 50" - 25 mm x 1/2"
1.5. Registo de parede com PVC isolado - 25 mm x 3/4"
1.6. Registo de parede com PVC isolado - 25 mm x 3/4"
1.7. Tenda de jato de 50" - 25 mm x 3/4"
1.8. Vaso sanitário com jato de 50" - 25 mm x 3/4"

Francisco Wallysson Paiva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE 061741988-4

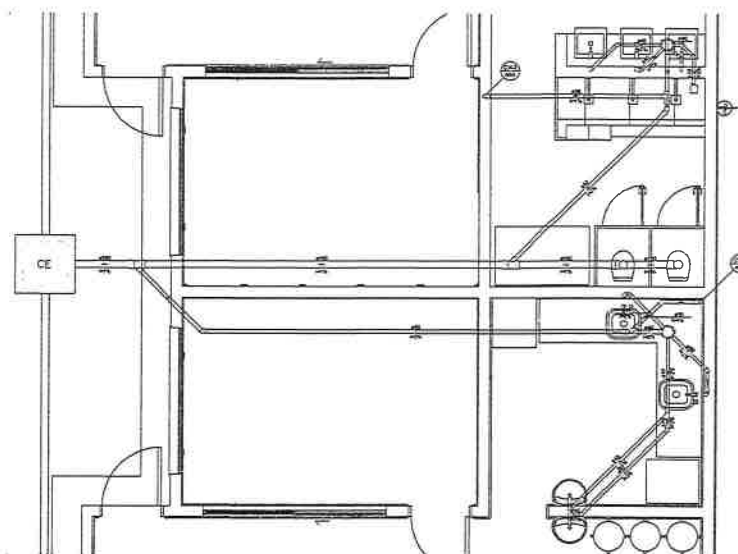
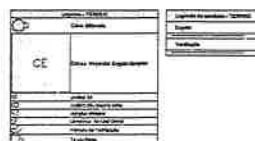
ITAITINGA	
Nome	Francisco Wallysson Paiva Magalhães
Profissão	Engenheiro Civil
Registro	CREA-CE 061741988-4
Assinatura	
Carimbo	



DETALHE S1
PLANTA BAIXA - ESC. 1:25



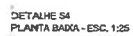
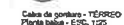
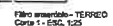
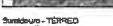
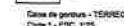
DETALHE S3
PUNTA BAJA - ESC. 1:25



DETALHE S3
PLANTA BADA - ESC. 1:25



Francisco Waillysson Paiva Magalhães
Prefeitura Municipal de Itaitinga
Engenheiro Civil
CREA-CE: 061741988-4

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Francisco Wallysson de Magalhães
Prefeitura Municipal de Itatinga
Engenheiro Civil
CREA-CE: 06741988-4