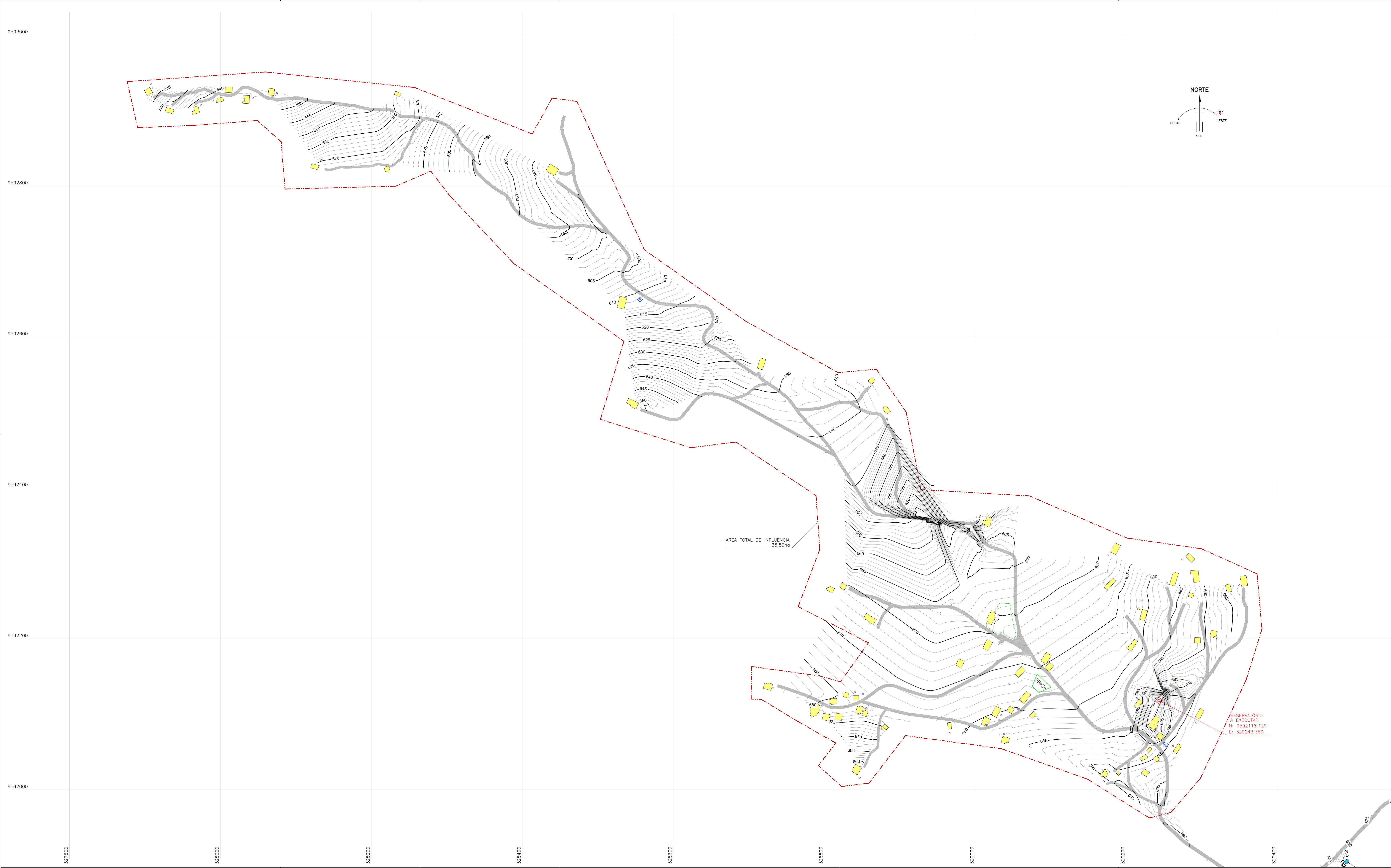




- LEGENDA
- IMÓVEIS BENEFICIADOS
 - MURO
 - CERCA
 - ÁREA DE INFLUÊNCIA
 - CISTERNAS

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA

MUNICÍPIO:

SOBRAL

LOCALIDADE:

DESTERRO

ASSUNTO:

LEVANTAMENTO TOPOGRÁFICO
GEORREFERENCIADO



PREFEITURA MUNICIPAL
DE SOBRAL

TOPOGRAFIA:

Washington

DESENHO:

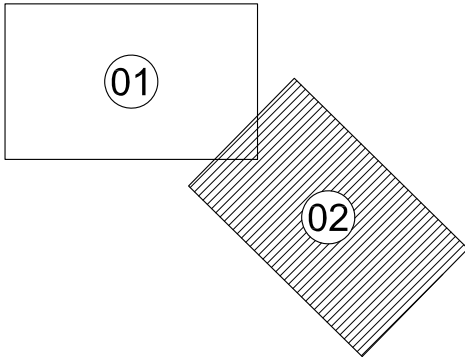
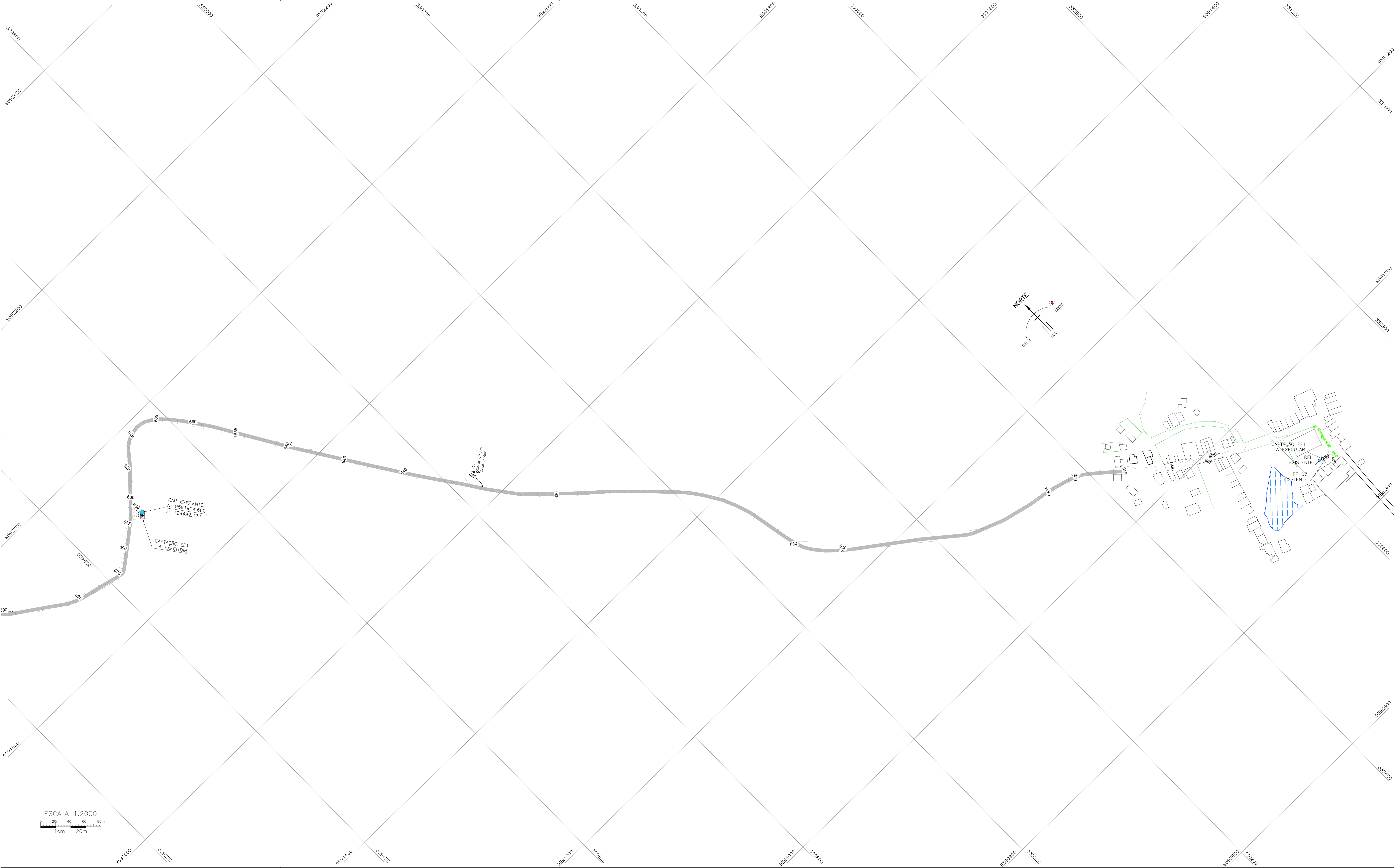
Marcos Ximenes

DATA:

15/06/2021

FOLHA:

01/16

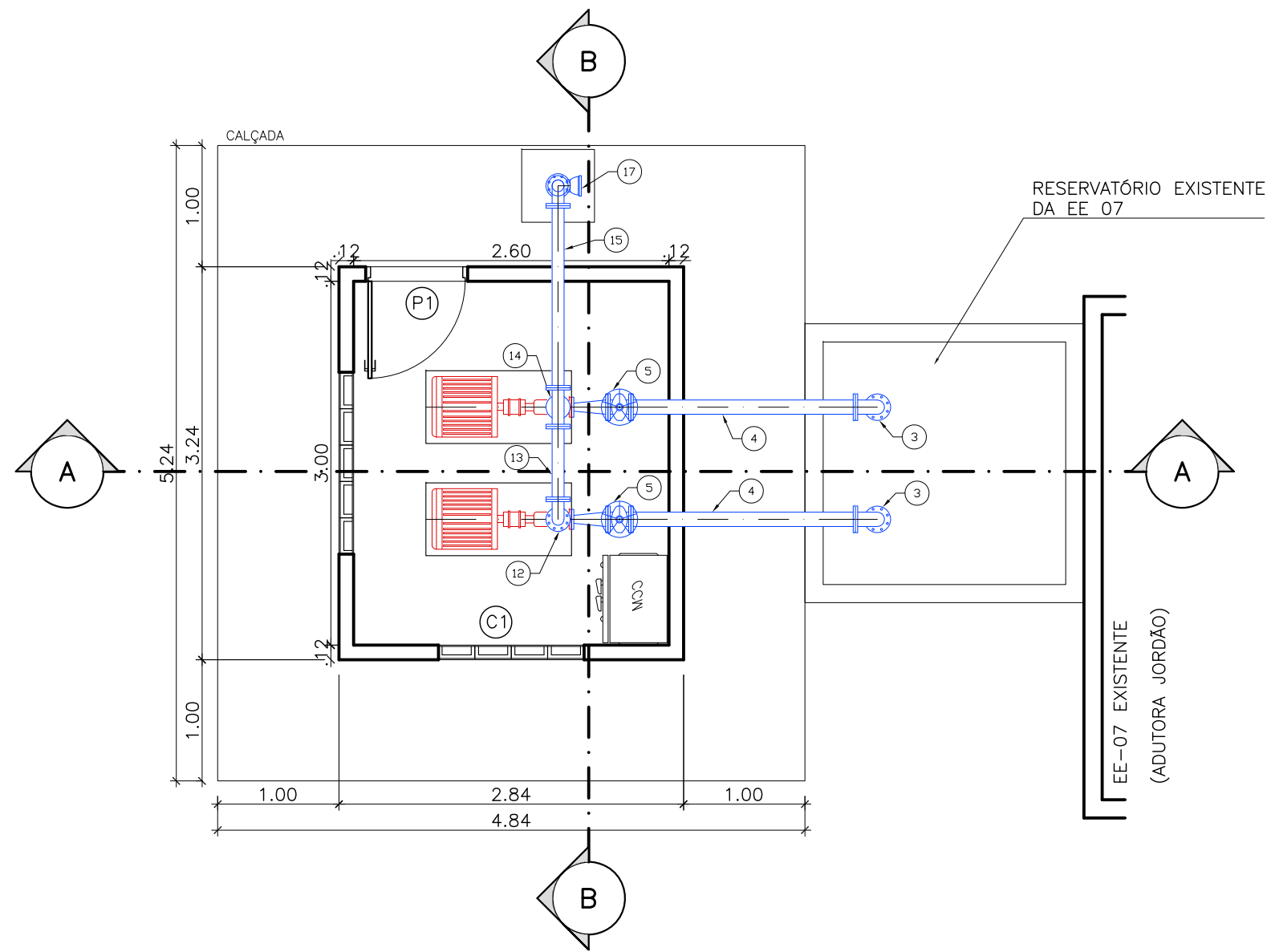


- LEGENDA
- IMÓVEIS BENEFICIADOS
 - MURO
 - CERCA
 - ÁREA DE INFLUÊNCIA
 - CISTERNAS

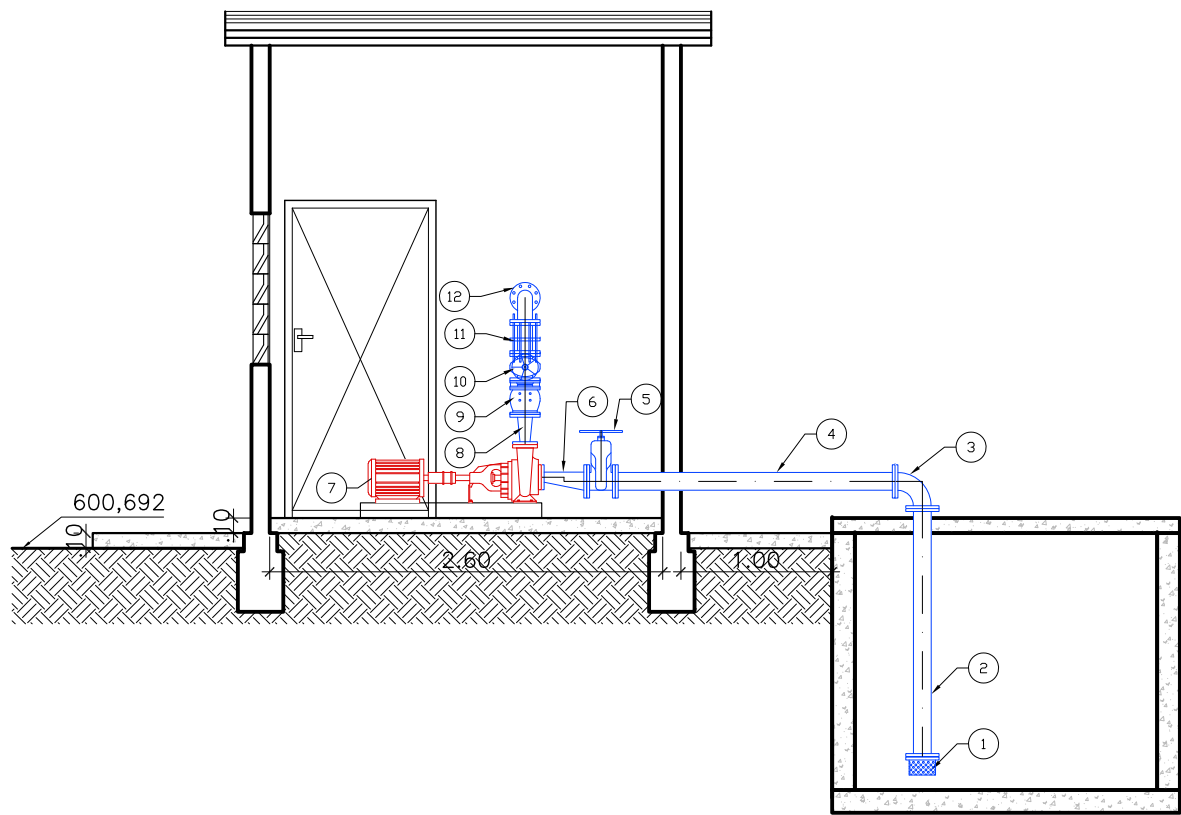
PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA	MUNICÍPIO: SOBRAL	LOCALIDADE: DESTERRO
ASSUNTO: LEVANTAMENTO TOPOGRÁFICO GEORREFERENCIADO		 PREFEITURA MUNICIPAL DE SOBRAL
TOPOGRAFIA: Washington	PROJETO: Marcos Ximenes	DATA: 15/06/2021
		FOLHA: 02 / 16

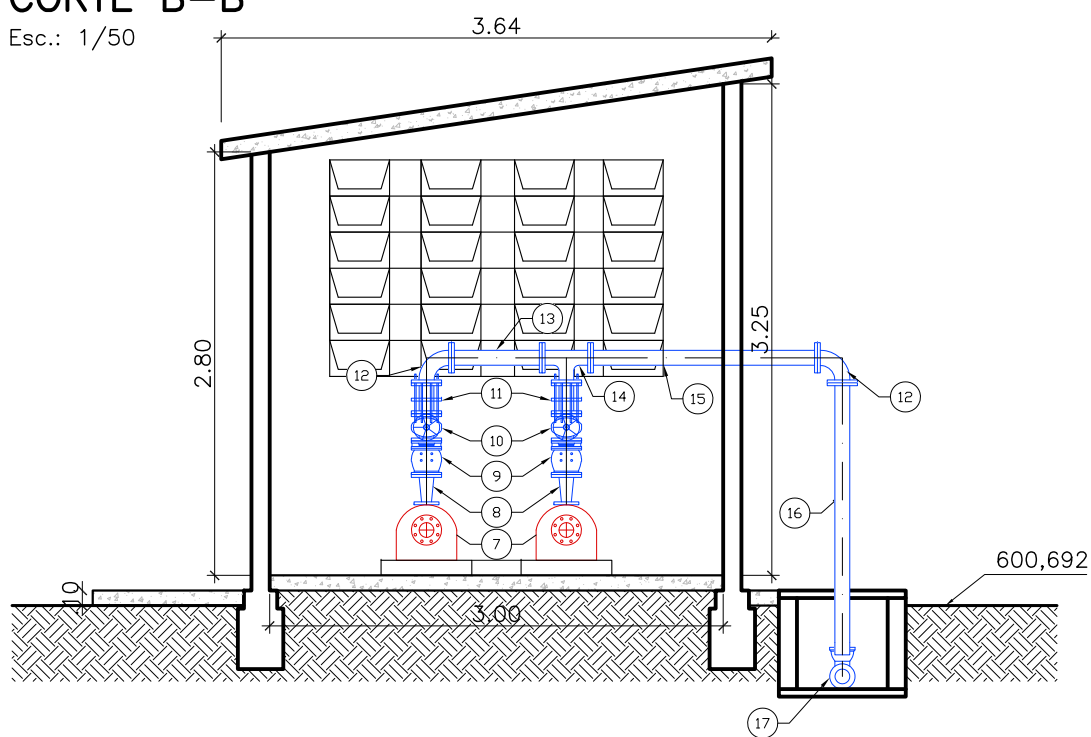
PLANTA BAIXA
Esc.: 1/50



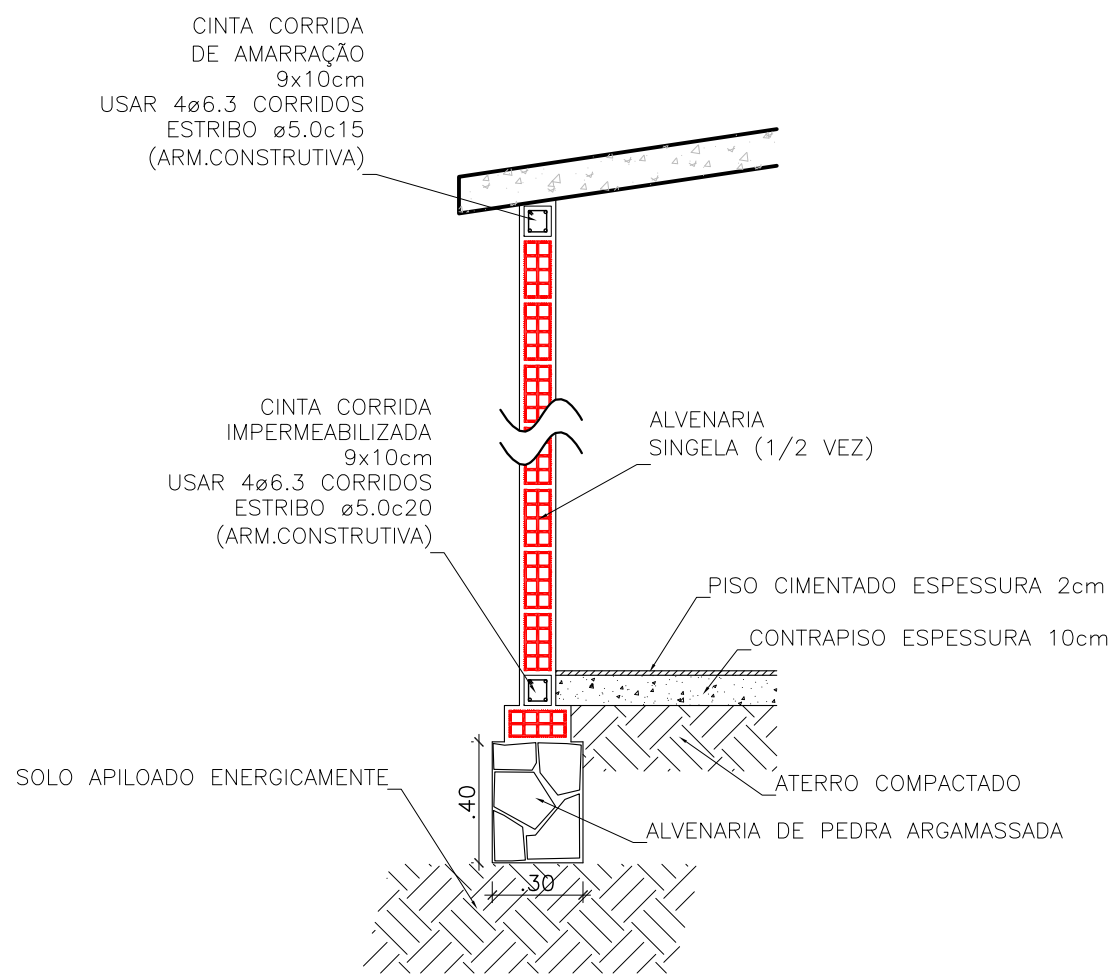
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Esc.: 1/50



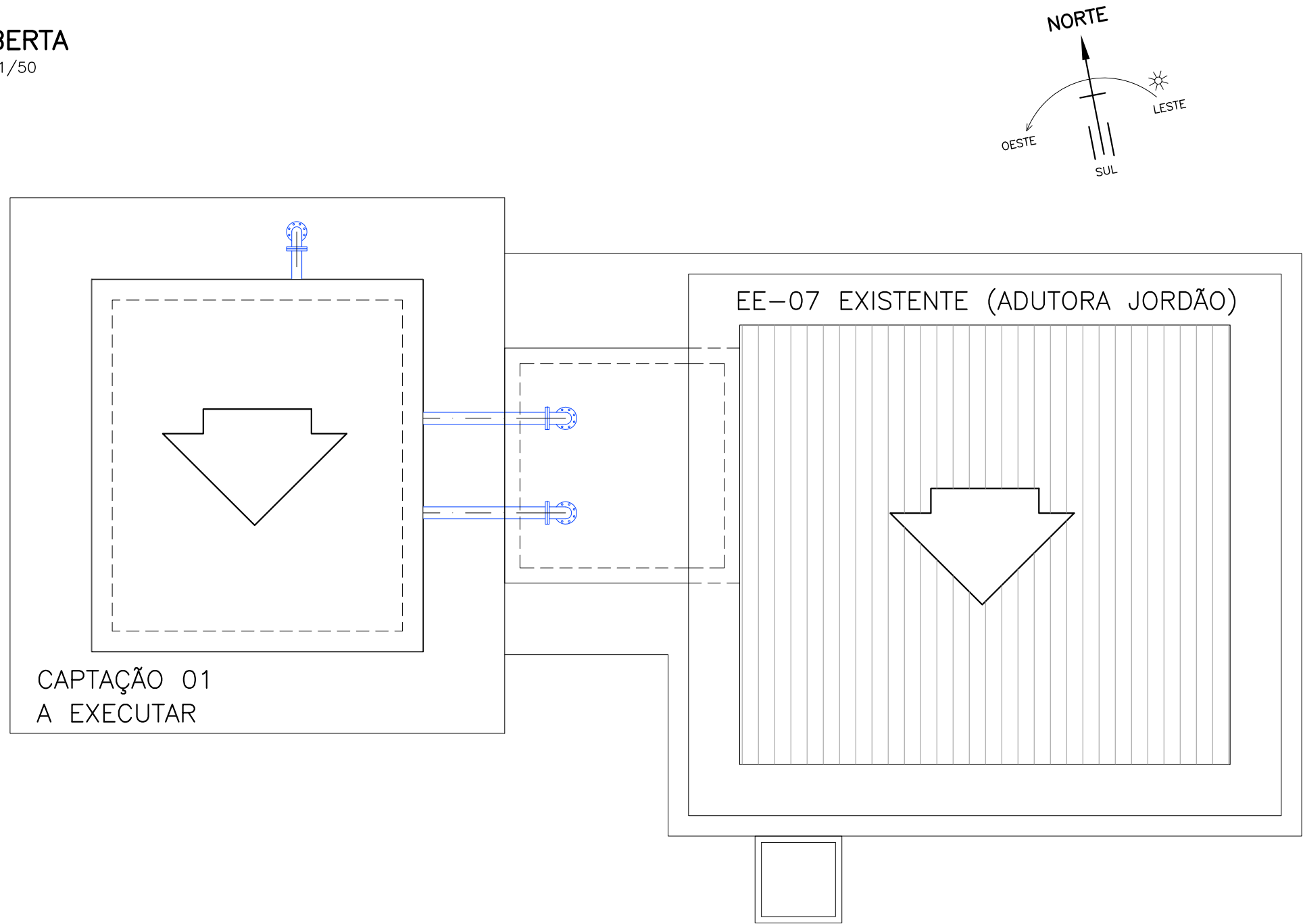
CORTE B-B
Esc.: 1/50



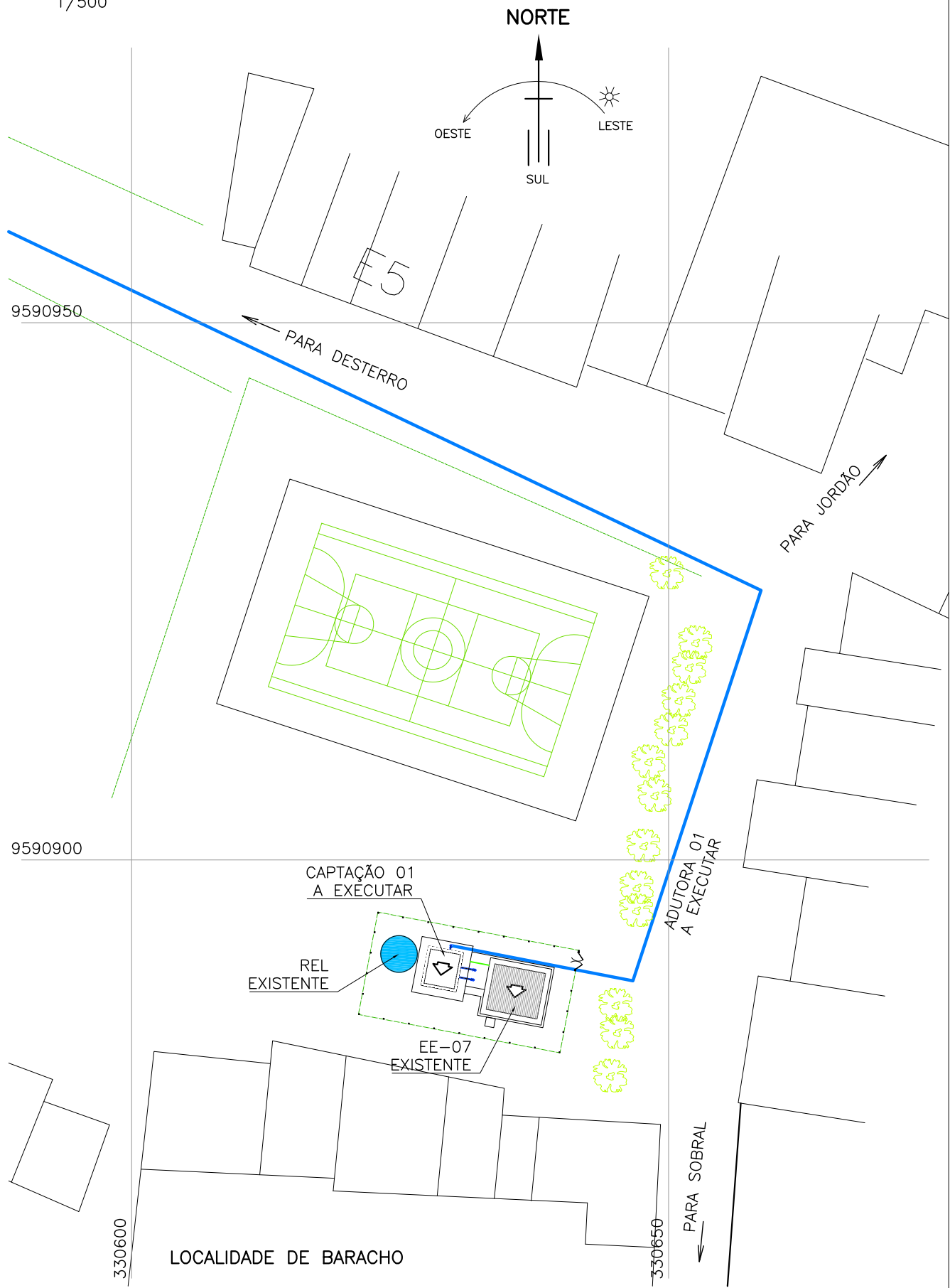
DETALHES ESTRUTURAIS
Esc.: 1/25



COBERTA
Esc.: 1/50



PLANTA DE SITUAÇÃO
1/500



RELAÇÃO DAS MATERIAIS

ITEM	DESCRIÇÃO	QNT
1	CRIVO COM FLANGE DN100	2
2	TUBO FfFo C/ FLANGES DN 100 - L=1850	2
3	CURVA FfFo 90 FF PARA ÁGUA DN100	2
4	TUBO FfFo C/ FLANGES DN 100 - L=1850	2
5	REGISTRO VOLANTE E FLANGE DN100	2
6	REDUÇÃO EXCÊNTRICA C/ FLANGES DN100 x BOMBA	2
7	CONJUNTO MOTOR-BOMBA	2
8	REDUÇÃO FfFo FF DN 75 x BOMBA	2
9	VALV. RET. PORT. ÚNICA FLANGE C/ BY-PASS DN 75 PN16	2
10	REGISTRO VOLANTE E FLANGE DN 75	2
11	JUNTA DE DESMONTAGEM TRAVADA AXIALMENTE PN16 DN75	2
12	CURVA FfFo 90 FF PARA ÁGUA DN 75	2
13	TUBO FfFo C/ FLANGES DN 75 - L=1500	1
14	TE FfFo FF DN 75 x 75	1
15	TUBO FfFo C/ FLANGES DN 75 - L=1500	1
16	TUBO FfFo C/ FLANGE E PONTA DN 75 - L=1800	1
17	CURVA 90 FfFo BB JUNTA ELÁSTICA PARA ÁGUA DN 75	1

RELAÇÃO DAS ESQUADRIAS

ITEM	DESCRIÇÃO	DIMENSÕES (m)
(P)	PORTA TIPO MACHO E FEMEA	0.80x2.10
(C)	COMBOGÔ ANTI-CHUVA	1.20x1.00
(C)	COMBOGÔ ANTI-CHUVA	1.50x1.00

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA

MUNICÍPIO:

SOBRAL

LOCALIDADE:

DESTERRO

ASSUNTO:

CAPTAÇÃO -1/EE-7 (ADT JORDÃO)
PLANTA BAIXA, CORTES



PREFEITURA MUNICIPAL DE SOBRAL

DESENHO:

Marcos Ximenes

ESCALA:

INDICADA

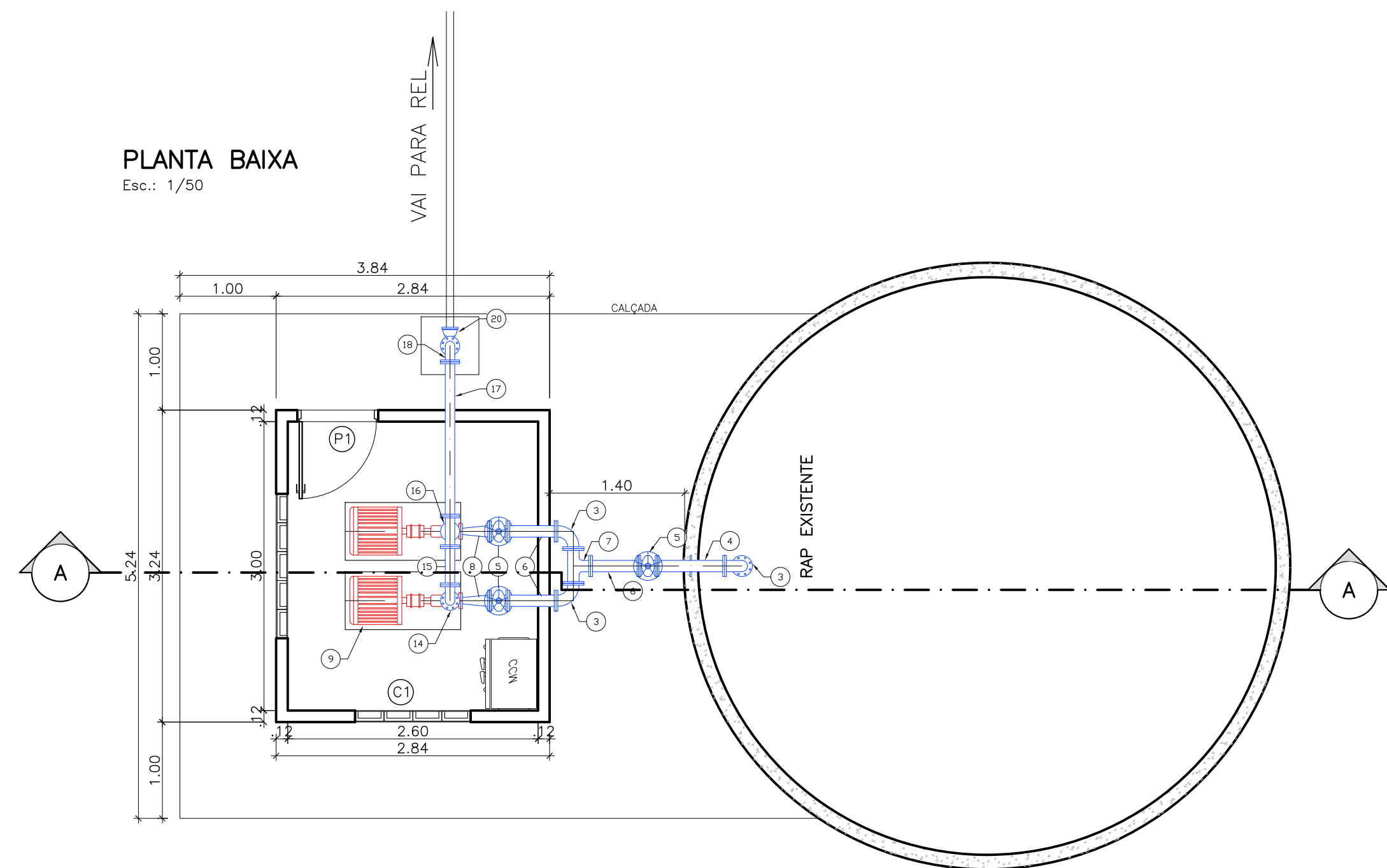
DATA:

30/06/2021

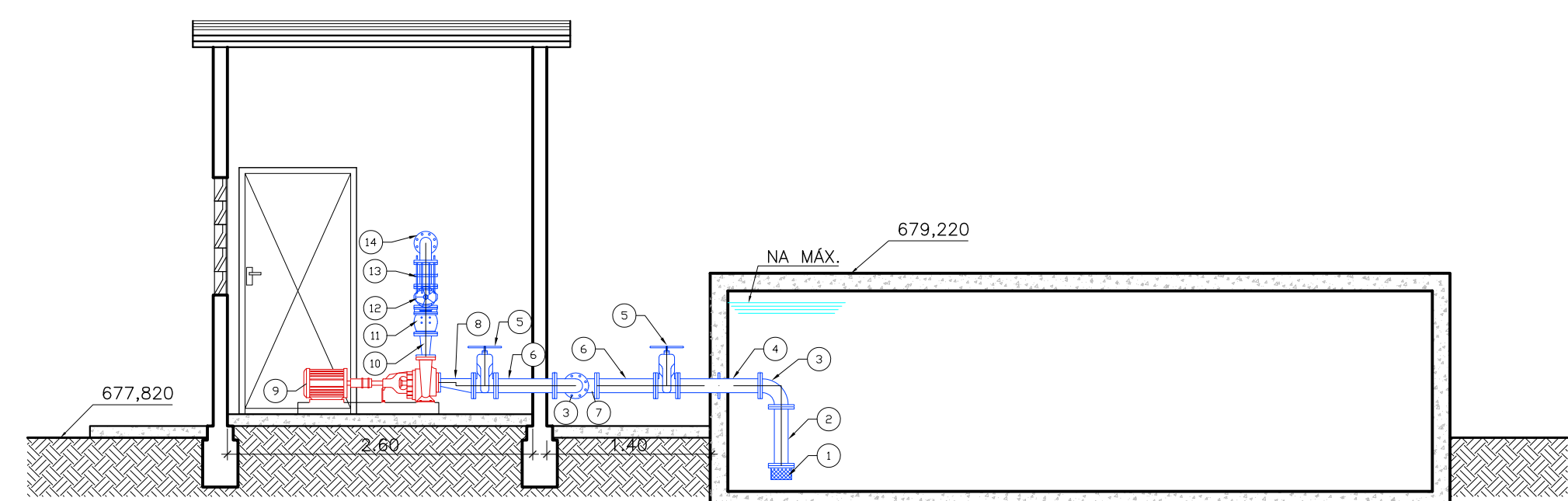
FOLHA:

03/16

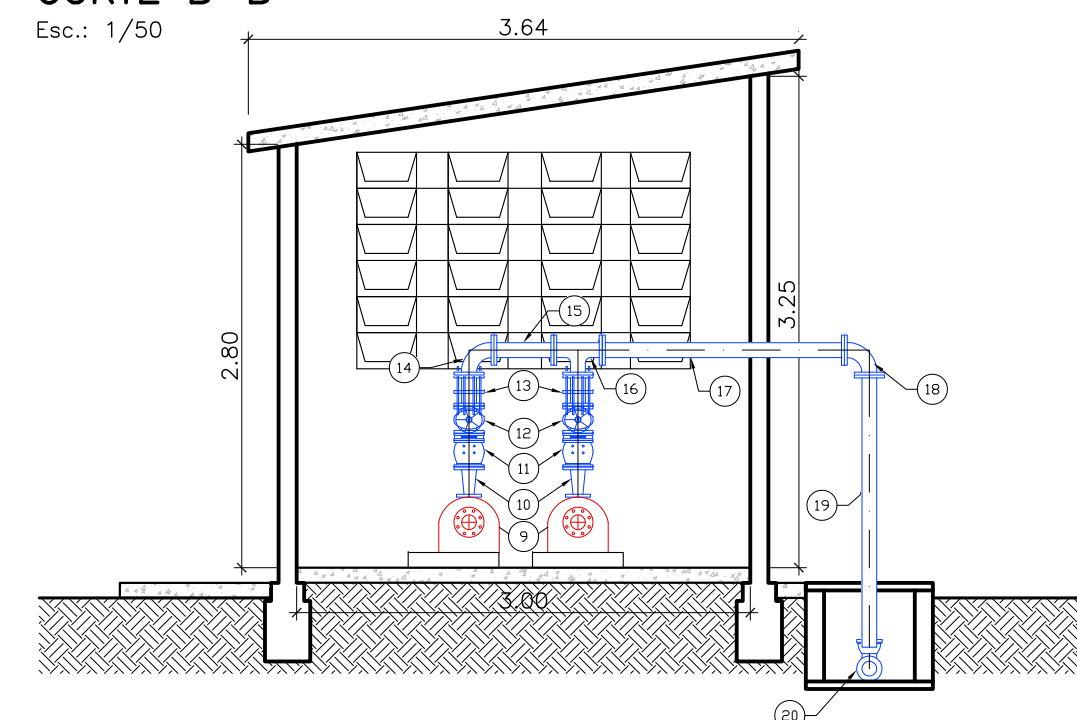
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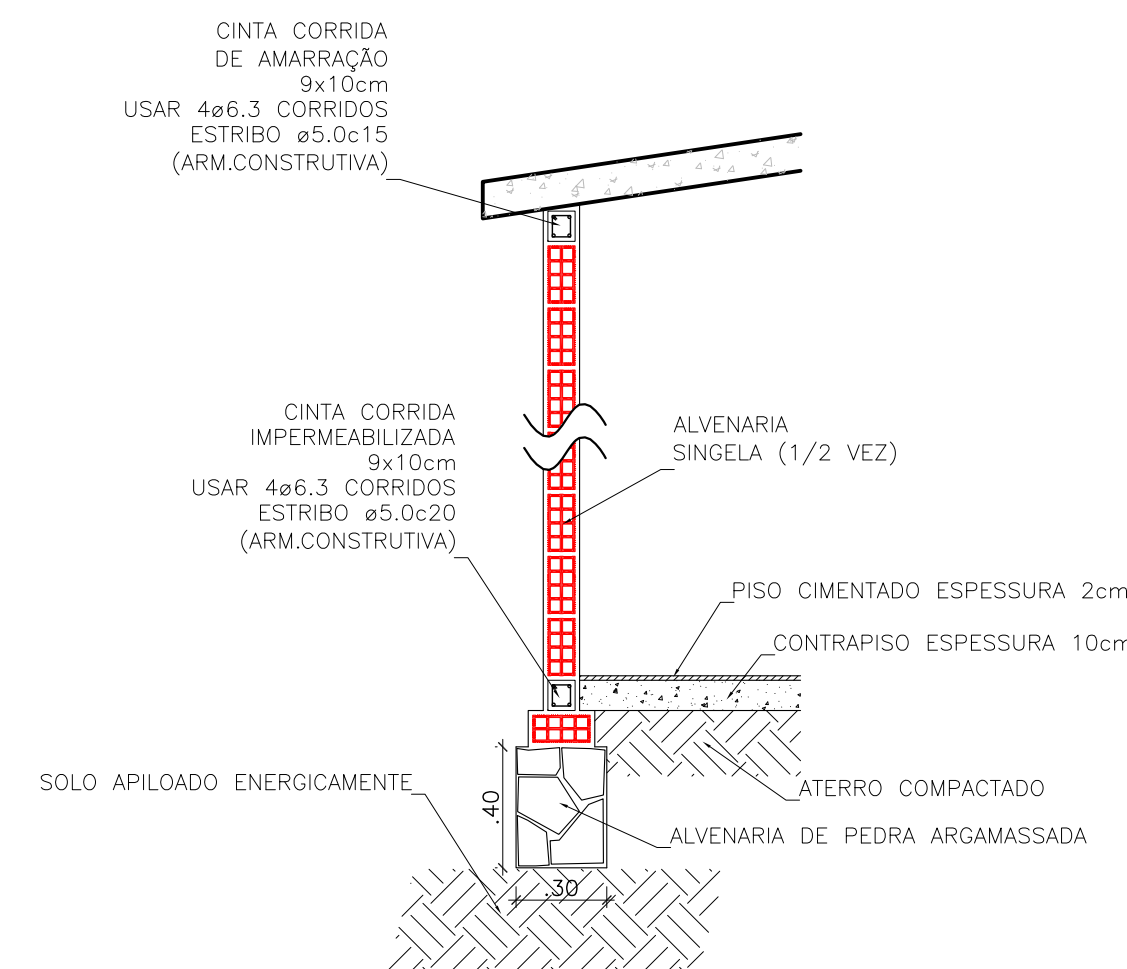
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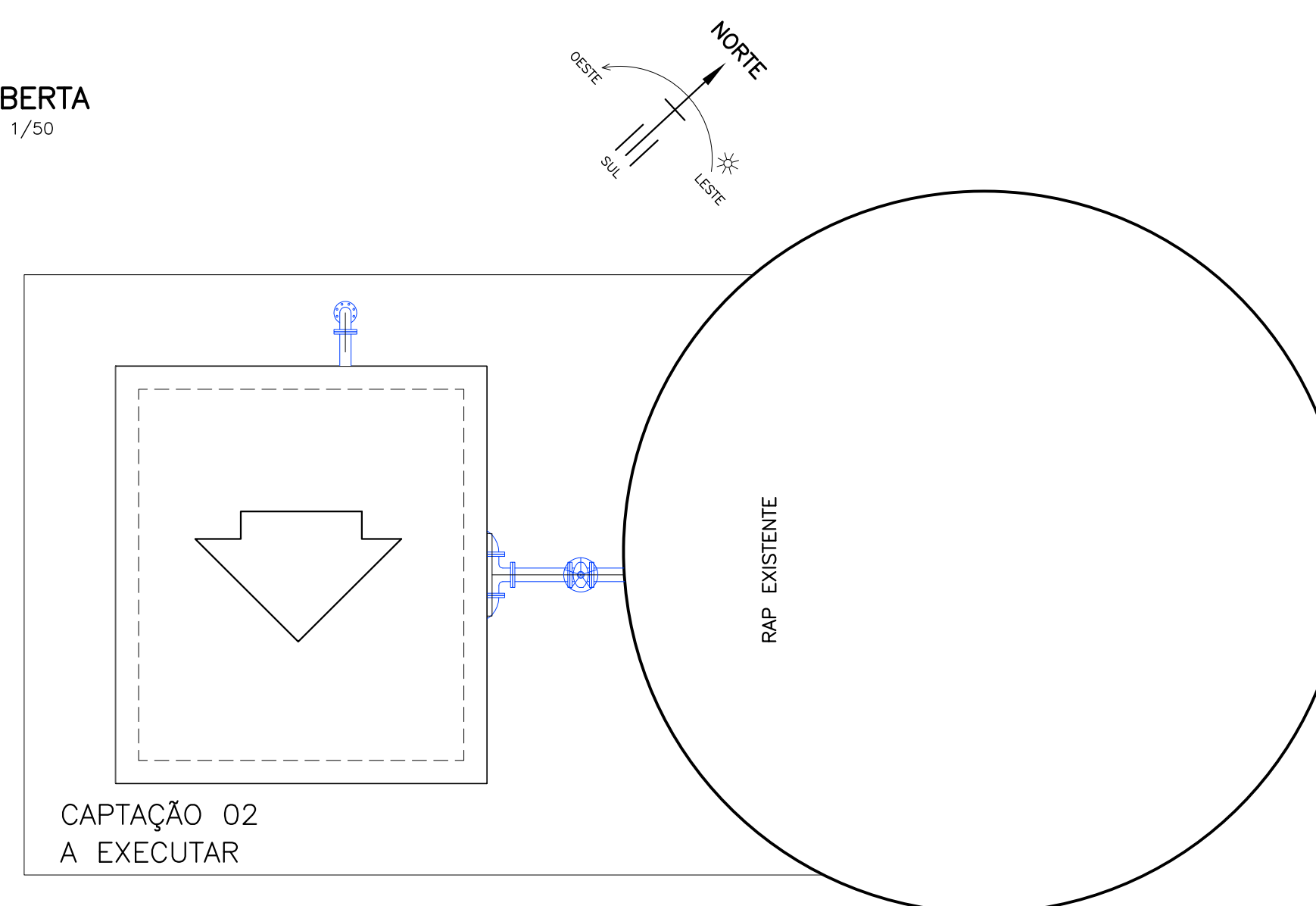
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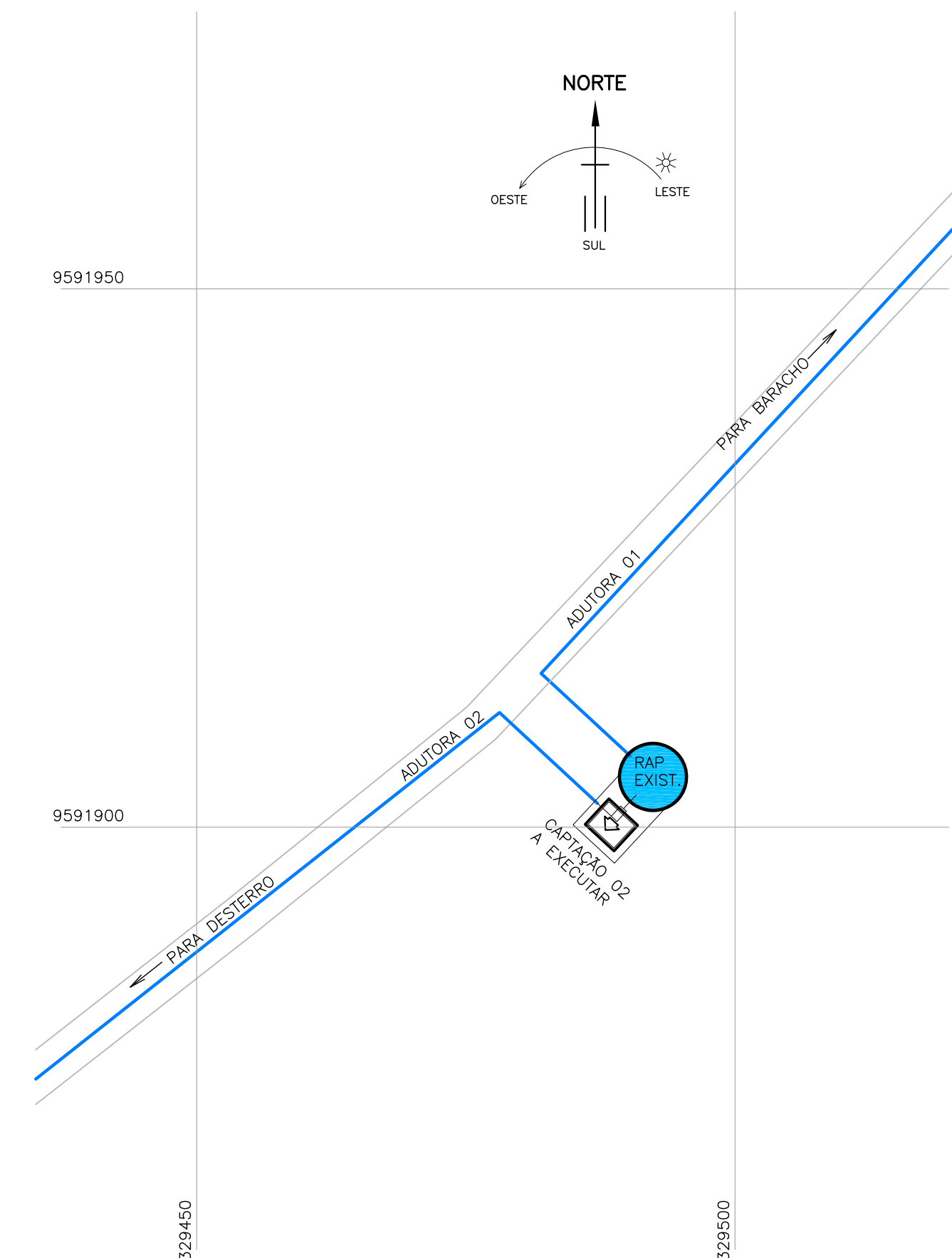
Esc.: 1/25



Esc.: 1/50



1/500



RELAÇÃO DAS MATERIAIS			
	ITEM	DESCRIÇÃO	QNT
SUACÃO	2	CRIVO COM FLANGE DN150	1
	2	TUBO FOF COM FLANGES DN 100 x 1" VAR.	1
	3	CURVA FOF 90° PARA AGUA DN 100	3
	4	TUBO T FOF LIGAS E DE VIGACAO DN 180	3
	5	REGISTO VOLANTE E FLANGE DN150	1
	6	TUBO FOF COM FLANGES DN 100 x 1" VAR	3
	7	TE FOF DN 100 100 x 100	1
	8	REDUÇÃO EXCENTRICA FLANGE DN150 x BOMBA	1
	9	CONJUNTO MOTOCOMBO	2
	10	REDUÇÃO FOF DN 75 x BOMBA	2
RECALQUE	11	VALVET. PORT. UNICA FLANGE 6"PASS DN 75 PN16	2
	12	REGISTO VOLANTE E FLANGE DN150	1
	13	JUNTA DE DESMONTAGEM TRAVADA APANHIN PN15	2
	14	CURVA FOF 90° PARA AGUA DN 75	2
	15	TUBO FOF COM FLANGES DN 75 x 1"VARO	1
	16	TE FOF DN 75 75 x 75	1
	17	TUBO FOF COM FLANGES DN 75 x 1" VARO	1
	18	TUBO FOF LIGAS E PONTA DN 75 x 1"1800	1

ITEM	DESCRIÇÃO	DIMENSÕES (m)
P1	PORTA TIPO MACHO E FEMEA	0.80x2.10
C1	COMBOGO ANTI-CHUVA	1.20x1.00
C2	COMBOGO ANTI-CHUVA	1.50x1.00

SISTEMA DE ABASTECIMENTO DE ÁGUA

ASSUNTO:

CAPTAÇÃO -2/RAP EXISTENTE
PLANTA BAIXA, CORTES



DESENHO:
Marcos Ximenes

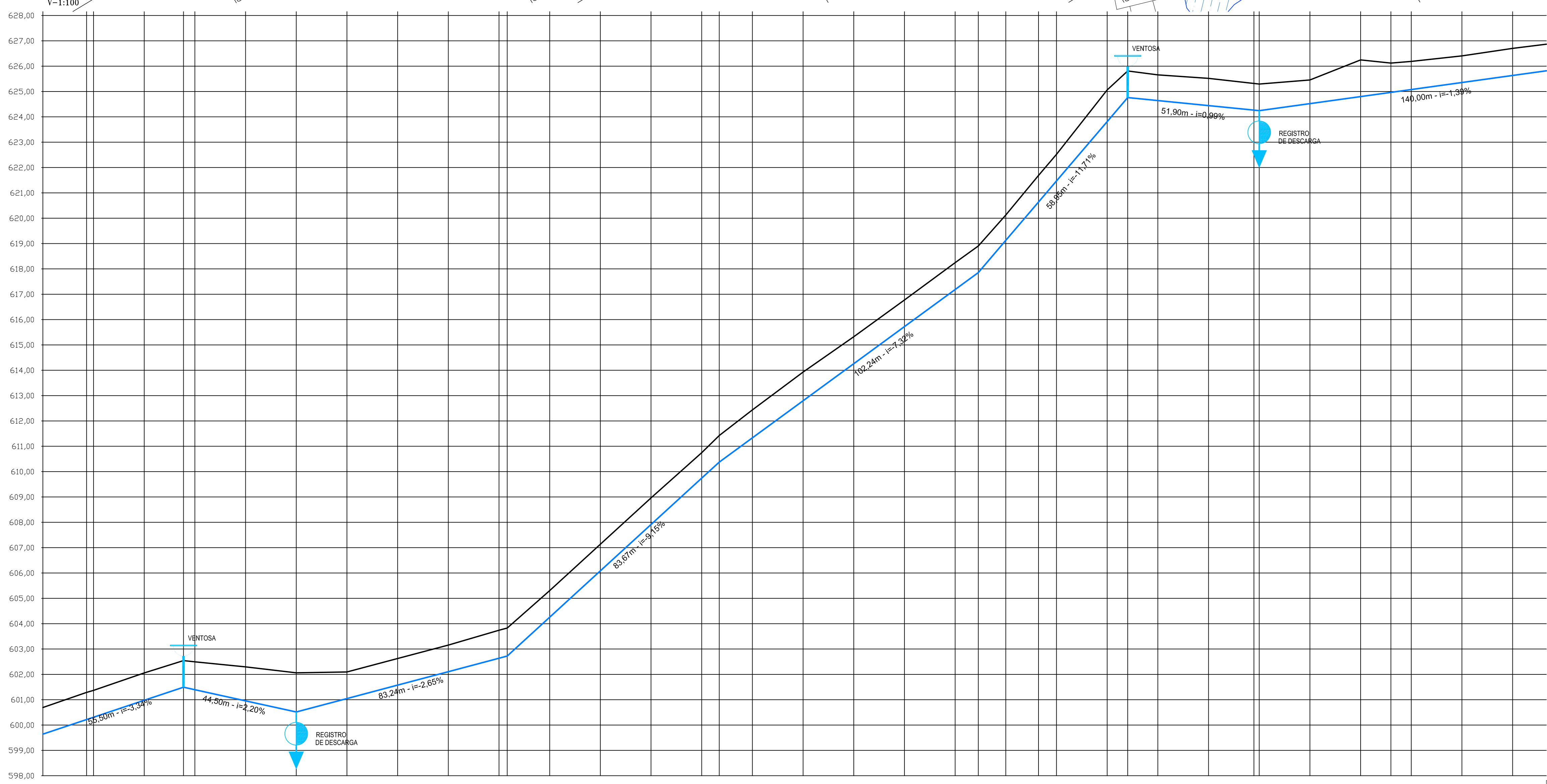
ESCALA: INDICADA

DATA:
25/06/2021

04 / 16



02 PERFIL LONGITUDINAL
ESCALAS
H-1:1000
V-1:100



ESTACAS	E 00+0,00		E 01+0,00		E 02+0,00		E 03+0,00		E 04+0,00		E 05+0,00		E 06+0,00		E 07+0,00		E 08+0,00		E 09+0,00		E 10+0,00		E 11+0,00		E 12+0,00		E 13+0,00		E 14+0,00		E 15+0,00		E 16+0,00		E 17+0,00		E 18+0,00		E 19+0,00		E 20+0,00		E 21+0,00		E 22+0,00		E 23+0,00		E 24+0,00		E 25+0,00		E 26+0,00		E 27+0,00		E 28+0,00		E 29+0,00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
COTA TERRENO	599,543	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	600,692	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- LEGENDA**
- TERRENO
 - ADUTORA DE RECALQUE 01 - PROJETADA
 - C22° FoFo BB
 - C45° FoFo BB
 - C90° FoFo BB
 - ESTAÇÃO ELEVATÓRIA
 - REGISTRO DE DESCARGA
 - VENTOSA

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA

ASSUNTO: ADUTORA DE RECALQUE 01 - ø75mm CAMINHAMENTO E PERFIL

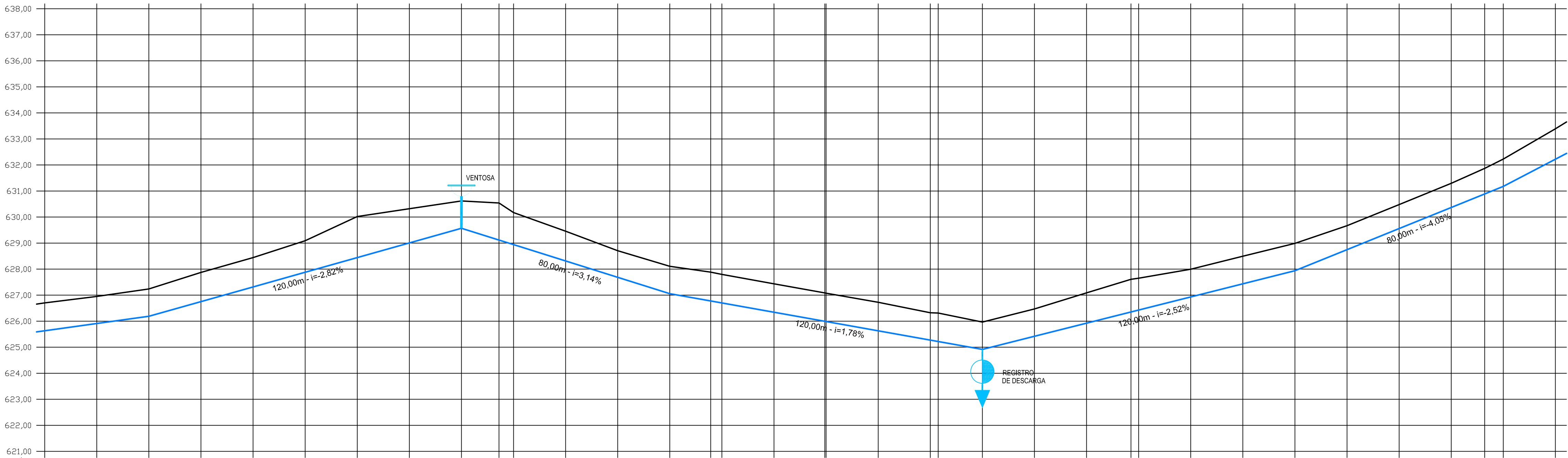
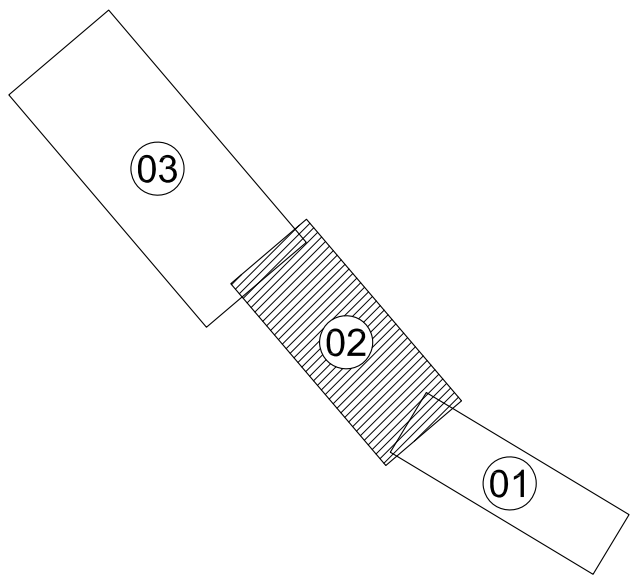
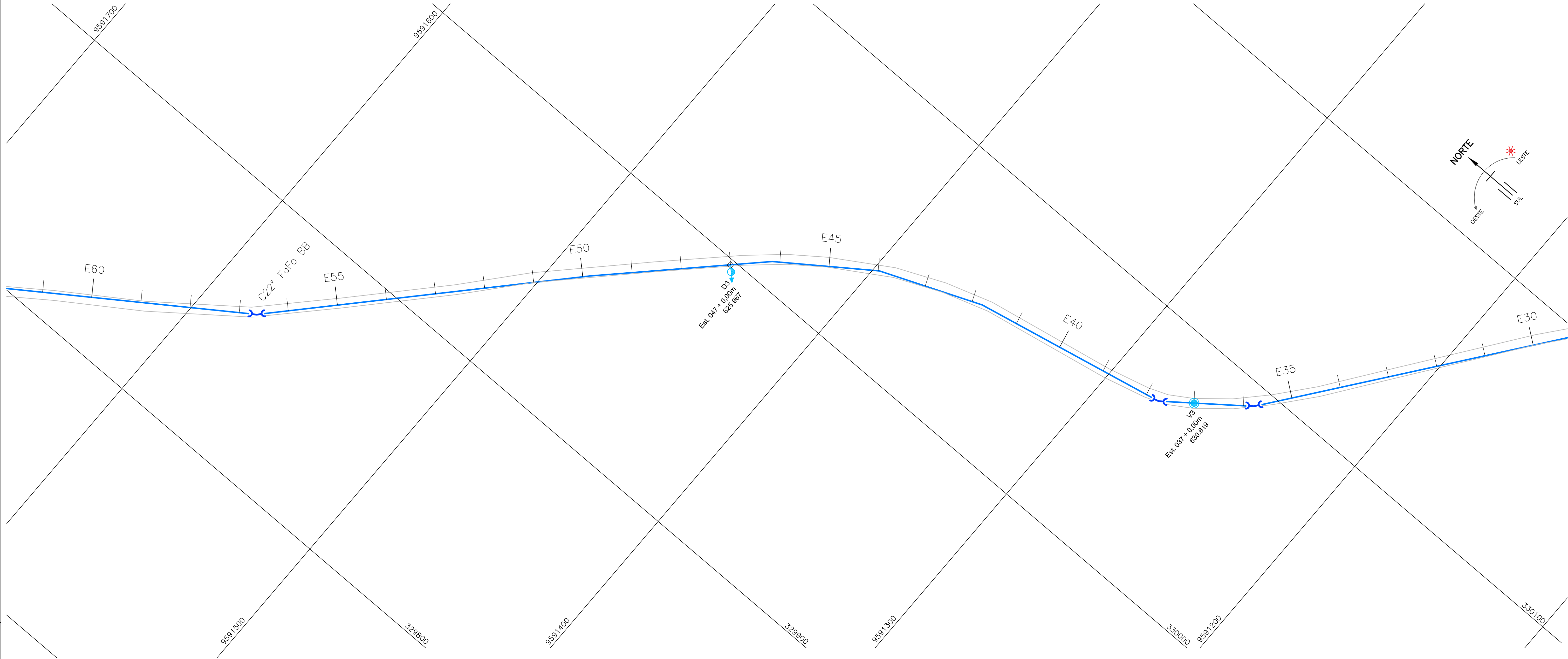
DESENHO: Marcos Ximenes

MUNICÍPIO: SOBRAL

LOCALIDADE: DESTERRO

DATA: 29/06/21

PRIMEIRO: 05/16



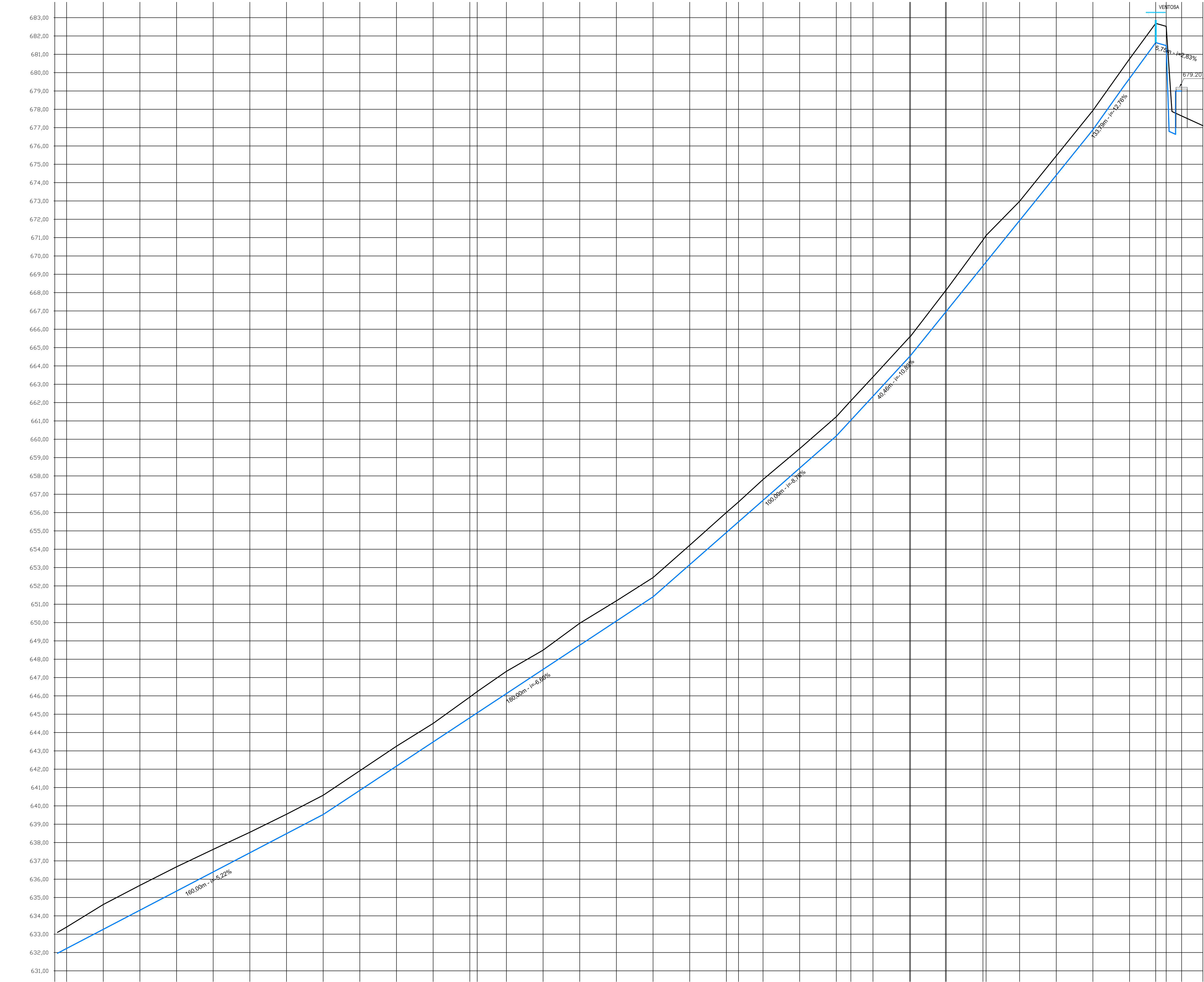
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COTA TERRENO	626,703	626,950	627,238	627,872	628,443	629,091	630,019	630,319	630,619	630,540	630,172	629,457	628,706	628,107	627,883	627,797	627,436	627,086	626,726	626,394	626,013	625,967	626,471	627,087	627,608	627,651	627,996	628,495	628,988	629,666	630,478	631,296	631,870	632,226	633,388
COTAS PROJETO	625,633	625,910	626,188	626,732	627,315	627,879	628,442	629,006	629,569	629,116	628,941	628,313	627,685	627,057	626,777	626,700	626,344	625,989	625,630	625,274	625,019	624,917	625,421	625,924	626,428	626,931	627,435	627,938	628,748	629,557	630,367	631,176	631,985	632,794	633,603
PROFUNDIDADE	1,070m	1,040m	1,050m	1,120m	1,128m	1,212m	1,577m	1,313m	1,050m	1,424m	1,231m	1,144m	1,021m	1,050m	1,106m	1,097m	1,092m	1,089m	1,095m	1,050m	1,093m	1,050m	1,050m	1,163m	1,255m	1,233m	1,065m	1,060m	1,050m	0,920m	0,921m	0,929m	0,983m	1,050m	1,158m

LEGENDA

- TERRENO
- ADUTORA DE RECALQUE 01 - PROJETADA
- C22* FoFo BB
- C45* FoFo BB
- C90* FoFo BB
- ESTAÇÃO ELEVATÓRIA
- REGISTRO DE DESCARGA
- VENTOSA

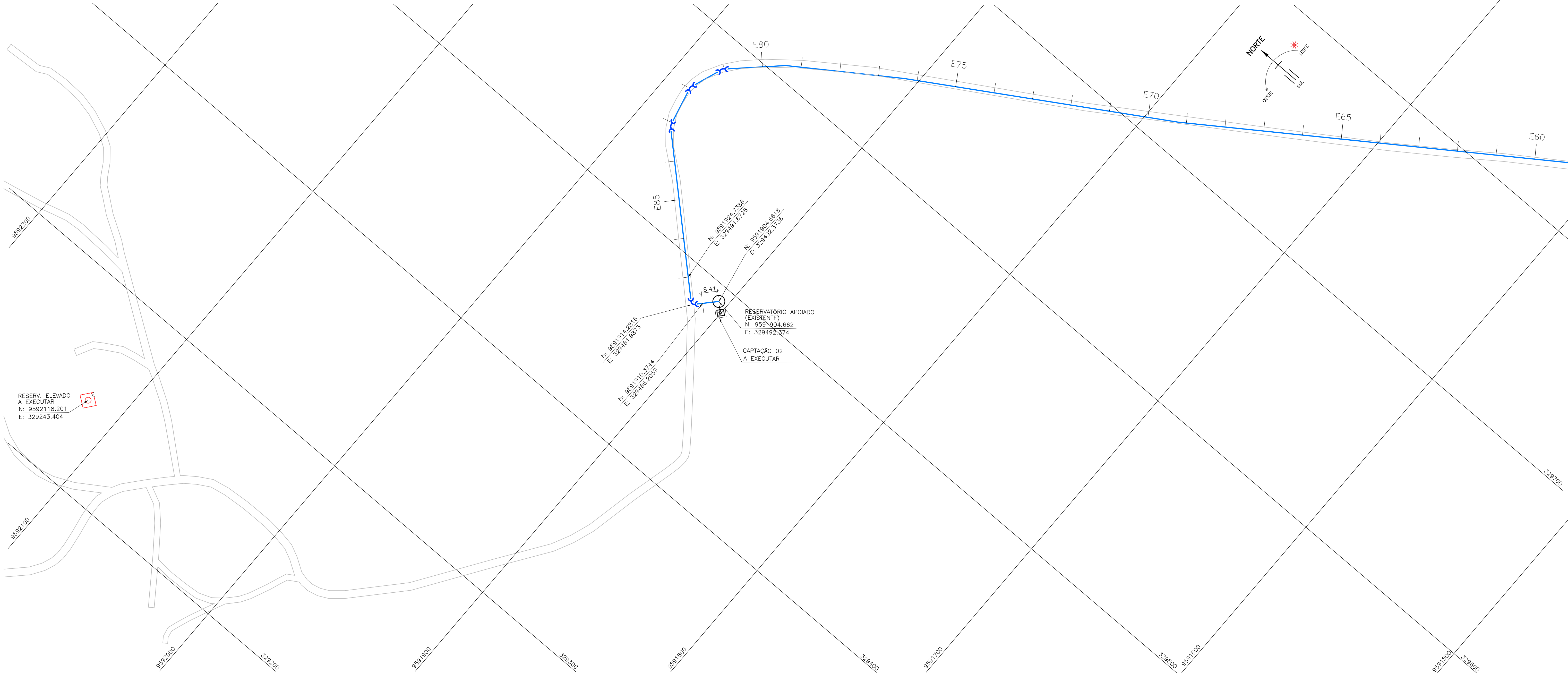
PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA			MUNICÍPIO: SOBRAL	LOCALIDADE: DESTERRO
ASSUNTO: ADUTORA DE RECALQUE 01 - ø75mm CAMINHAMENTO E PERFIL				
DESENHO: Marcos Ximenes	ESCALA: INDICADA	DATA: 29/06/21	PRIMEIRA: 06/16	

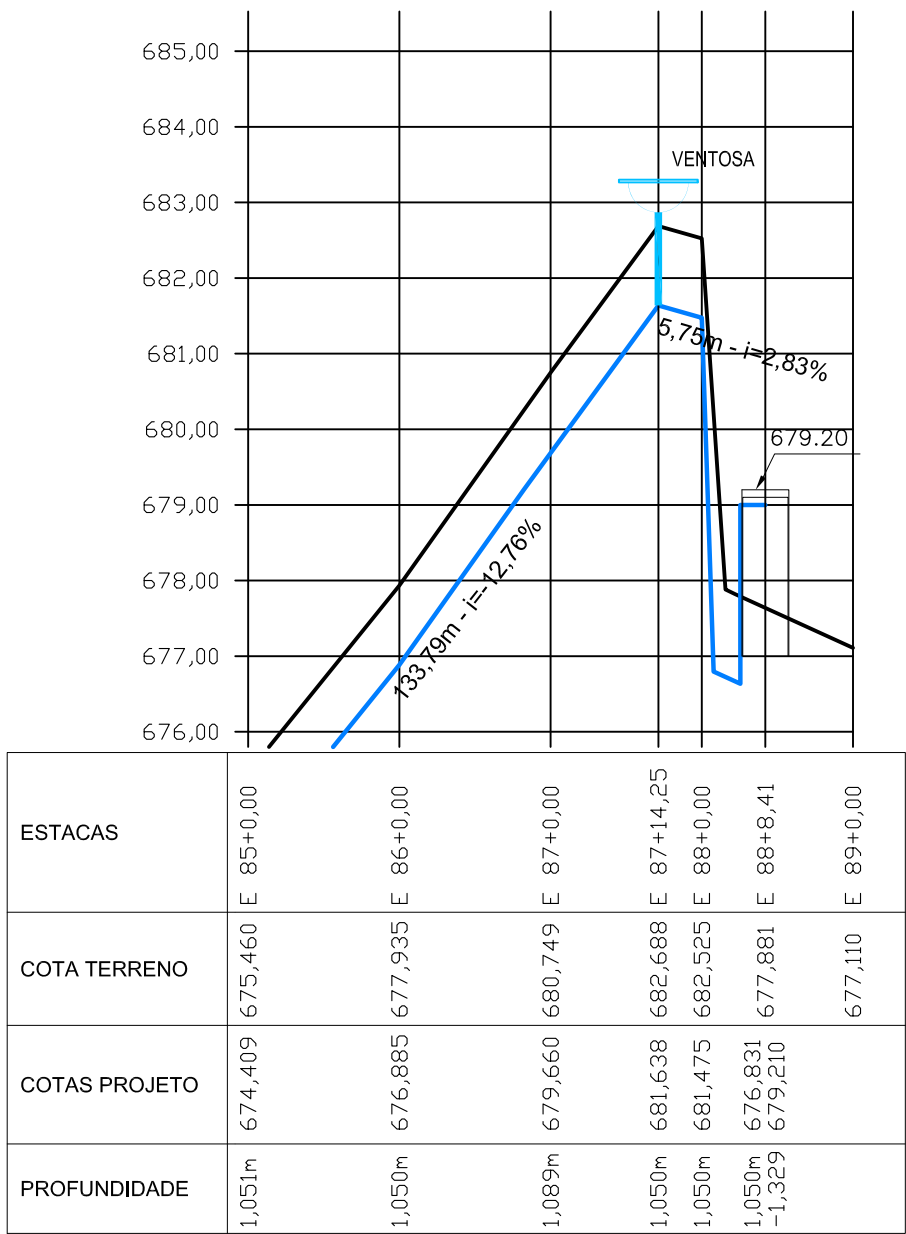


ESTACAS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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PROFUNDIDADE	1+168m	632.220	633.268	€ 39+0.00	1+254m	633.264	634.618	€ 39+0.00	1+356m	634.308	635.664	€ 60+0.00	1+324m	635.352	636.676	€ 61+0.00	1+229m	636.396	637.625	€ 62+0.00	1+119m	637.440	638.559	€ 63+0.00	1+059m	638.484	639.543	€ 64+0.00	1+050m	639.528	640.578	€ 65+0.00	1+068m	640.646	641.916	€ 66+0.00	1+087m	642.167	643.254	€ 67+0.00	1+012m	643.487	644.499	€ 68+0.00	1+129m	645.074	646.235	€ 69+0.00	1+160m	645.946	646.916	€ 70+0.00	1+212m	646.126	647.238	€ 71+0.00	1+049m	647.445	648.494	€ 72+0.00	1+084m	648.765	649.864	€ 73+0.00	1+136m	650.084	651.135	€ 74+0.00	1+060m	651.044	652.044	€ 75+0.00	1+090m	652.159	653.217	€ 76+0.00	1+084m	653.494	654.604	€ 77+0.00	1+090m	654.914	656.004	€ 78+0.00	1+084m	655.496	656.580	€ 79+0.00	1+136m	656.720	657.806	€ 80+0.00	1+060m	658.425	659.485	€ 81+0.00	1+050m	659.484	660.534	€ 82+0.00	1+050m	660.580	661.630	€ 83+0.00	1+060m	661.640	662.700	€ 84+0.00	1+050m	662.747	663.797	€ 85+0.00	1+062m	664.313	665.376	€ 86+0.00	1+117m	665.924	666.995	€ 87+0.00	1+168m	666.982	668.150	€ 88+0.00	1+409m	669.458	670.867	€ 89+0.00	1+454m	669.671	671.116	€ 90+0.00	1+048m	671.333	672.981	€ 91+0.00	1+051m	674.409	675.460	€ 92+0.00	1+050m	676.885	677.935	€ 93+0.00	1+089m	679.660	680.749	€ 94+0.00	1+050m	681.038	682.688	€ 95+0.00	1+050m	681.775	682.925	€ 96+0.00	1+050m	676.931	678.981	€ 97+0.00	1+050m	676.931	678.981	€ 98+0.00	1+050m	676.931	678.981	€ 99+0.00	1+050m	676.931	678.981	€ 100+0.00	1+050m	676.931	678.981	€ 101+0.00	1+050m	676.931	678.981	€ 102+0.00	1+050m	676.931	678.981	€ 103+0.00	1+050m	676.931	678.981	€ 104+0.00	1+050m	676.931	678.981	€ 105+0.00	1+050m	676.931	678.981	€ 106+0.00	1+050m	676.931	678.981	€ 107+0.00	1+050m	676.931	678.981	€ 108+0.00	1+050m	676.931	678.981	€ 109+0.00	1+050m	676.931	678.981	€ 110+0.00	1+050m	676.931	678.981	€ 111+0.00	1+050m	676.931	678.981	€ 112+0.00	1+050m	676.931	678.981	€ 113+0.00	1+050m	676.931	678.981	€ 114+0.00	1+050m	676.931	678.981	€ 115+0.00	1+050m	676.931	678.981	€ 116+0.00	1+050m	676.931	678.981	€ 117+0.00	1+050m	676.931	678.981	€ 118+0.00	1+050m	676.931	678.981	€ 119+0.00	1+050m	676.931	678.981	€ 120+0.00	1+050m	676.931	678.981	€ 121+0.00	1+050m	676.931	678.981	€ 122+0.00	1+050m	676.931	678.981	€ 123+0.00	1+050m	676.931	678.981	€ 124+0.00	1+050m	676.931	678.981	€ 125+0.00	1+050m	676.931	678.981	€ 126+0.00	1+050m	676.931	678.981	€ 127+0.00	1+050m	676.931	678.981	€ 128+0.00	1+050m	676.931	678.981	€ 129+0.00	1+050m	676.931	678.981	€ 130+0.00	1+050m	676.931	678.981	€ 131+0.00	1+050m	676.931	678.981	€ 132+0.00	1+050m	676.931	678.981	€ 133+0.00	1+050m	676.931	678.981	€ 134+0.00	1+050m	676.931	678.981	€ 135+0.00	1+050m	676.931	678.981	€ 136+0.00	1+050m	676.931	678.981	€ 137+0.00	1+050m	676.931	678.981	€ 138+0.00	1+050m	676.931	678.981	€ 139+0.00	1+050m	676.931	678.981	€ 140+0.00	1+050m	676.931	678.981	€ 141+0.00	1+050m	676.931	678.981	€ 142+0.00	1+050m	676.931	678.981	€ 143+0.00	1+050m	676.931	678.981	€ 144+0.00	1+050m	676.931	678.981	€ 145+0.00	1+050m	676.931	678.981	€ 146+0.00	1+050m	676.931	678.981	€ 147+0.00	1+050m	676.931	678.981	€ 148+0.00	1+050m	676.931	678.981	€ 149+0.00	1+050m	676.931	678.981	€ 150+0.00	1+050m	676.931	678.981	€ 151+0.00	1+050m	676.931	678.981	€ 152+0.00	1+050m	676.931	678.981	€ 153+0.00	1+050m	676.931	678.981	€ 154+0.00	1+050m	676.931	678.981	€ 155+0.00	1+050m	676.931	678.981	€ 156+0.00	1+050m	676.931	678.981	€ 157+0.00	1+050m	676.931	678.981	€ 158+0.00	1+050m	676.931	678.981	€ 159+0.00	1+050m	676.931	678.981	€ 160+0.00	1+050m	676.931	678.981	€ 161+0.00	1+050m	676.931	678.981	€ 162+0.00	1+050m	676.931	678.981	€ 163+0.00	1+050m	676.931	678.981	€ 164+0.00	1+050m	676.931	678.981	€ 165+0.00	1+050m	676.931	678.981	€ 166+0.00	1+050m	676.931	678.981	€ 167+0.00	1+050m	676.931	678.981	€ 168+0.00	1+050m	676.931	678.981	€ 169+0.00	1+050m	676.931	678.981	€ 170+0.00	1+050m	676.931	678.981	€ 171+0.00	1+050m	676.931	678.981	€ 172+0.00	1+050m	676.931	678.981	€ 173+0.00	1+050m	676.931	678.981	€ 174+0.00	1+050m	676.931	678.981	€ 175+0.00	1+050m	676.931	678.981	€ 176+0.00	1+050m	676.931	678.981	€ 177+0.00	1+050m	676.931	678.981	€ 178+0.00	1+050m	676.931	678.981	€ 179+0.00	1+050m	676.931	678.981	€ 180+0.00	1+050m	676.931	678.981	€ 181+0.00	1+050m	676.931	678.981	€ 182+0.00	1+050m	676.931	678.981	€ 183+0.00	1+050m	676.931	678.981	€ 184+0.00	1+050m	676.931	678.981	€ 185+0.00	1+050m	676.931	678.981	€ 186+0.00	1+050m	676.931	678.981	€ 187+0.00	1+050m	676.931	678.981	€ 188+0.00	1+050m	676.931	678.981	€ 189+0.00	1+050m	676.931	678.981	€ 190+0.00	1+050m	676.931	678.981	€ 191+0.00	1+050m	676.931	678.981	€ 192+0.00	1+050m	676.931	678.981	€ 193+0.00	1+050m	676.931	678.981	€ 194+0.00	1+050m	676.931	678.981	€ 195+0.00	1+050m	676.931	678.981	€ 196+0.00	1+050m	676.931	678.981	€ 197+0.00	1+050m	676.931	678.981	€ 198+0.00	1+050m	676.931	678.981	€ 199+0.00	1+050m	676.931	678.981	€ 200+0.00

01 CAMINHAMENTO
ESCALAS H=1:1000
V=1:100



02 PERFIL LONGITUDINAL
ESCALAS H=1:1000
V=1:100

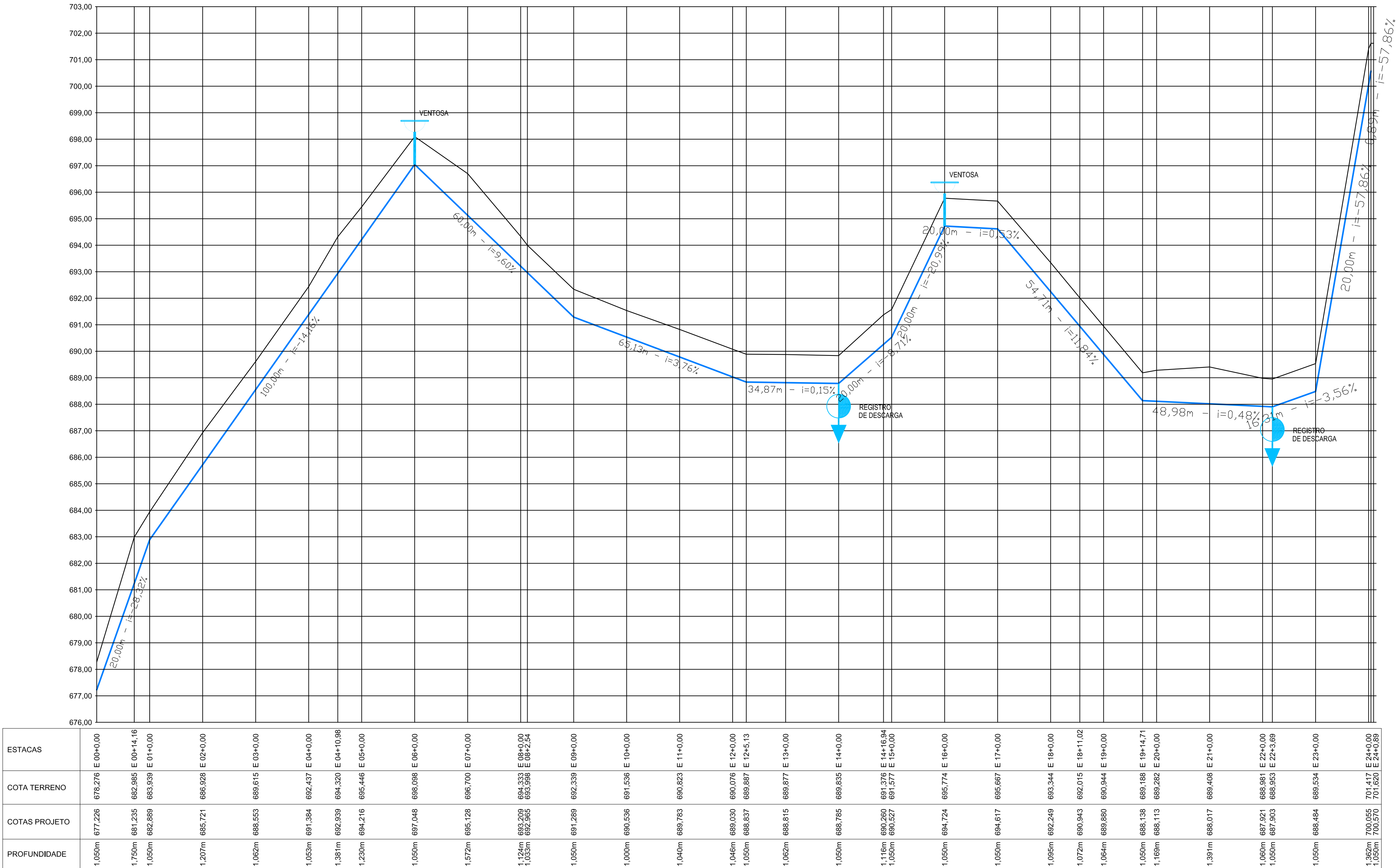


LEGENDA

- TERRENO
- ADUTORA DE RECALQUE 01 - PROJETADA
- C22° FoFo BB
- C45° FoFo BB
- C90° FoFo BB
- ESTAÇÃO ELEVATÓRIA
- REGISTRO DE DESCARGA
- VENTOSA

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA	MUNICÍPIO: SOBRAL	LOCALIDADE: DESTERRO
ASSUNTO: ADUTORA DE RECALQUE 01 - ø75mm CAMINHAMENTO E PERFIL		
DESENHO: Marcos Ximenes	ESCALA: INDICADA	DATA: 29/06/21
		PÁGINA: 08/16



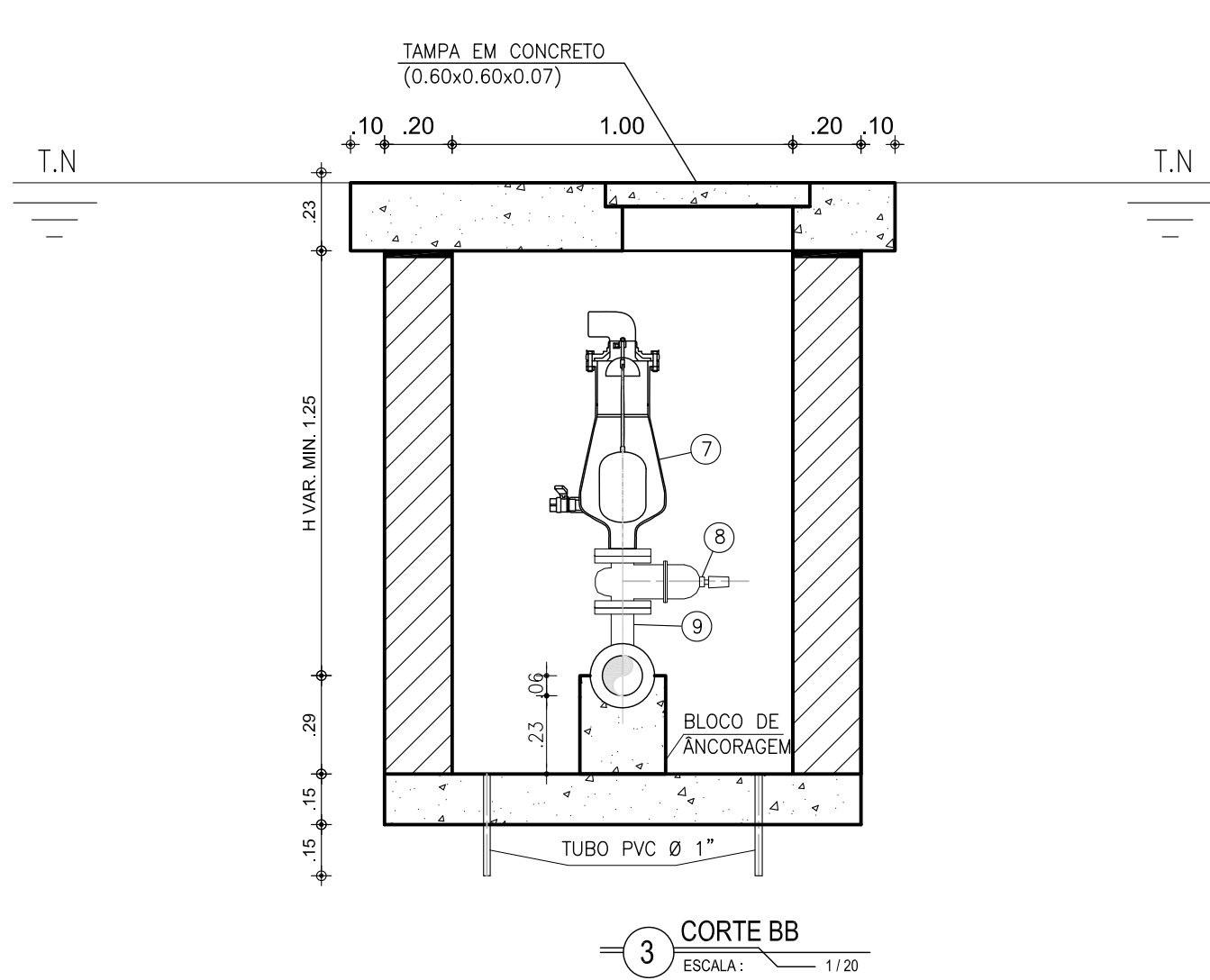
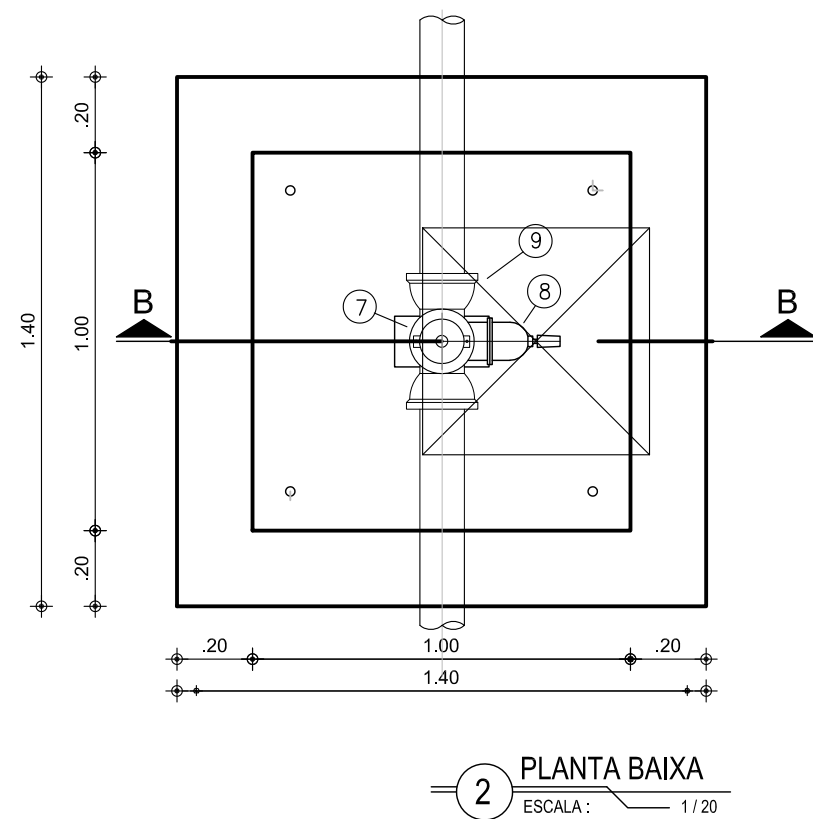
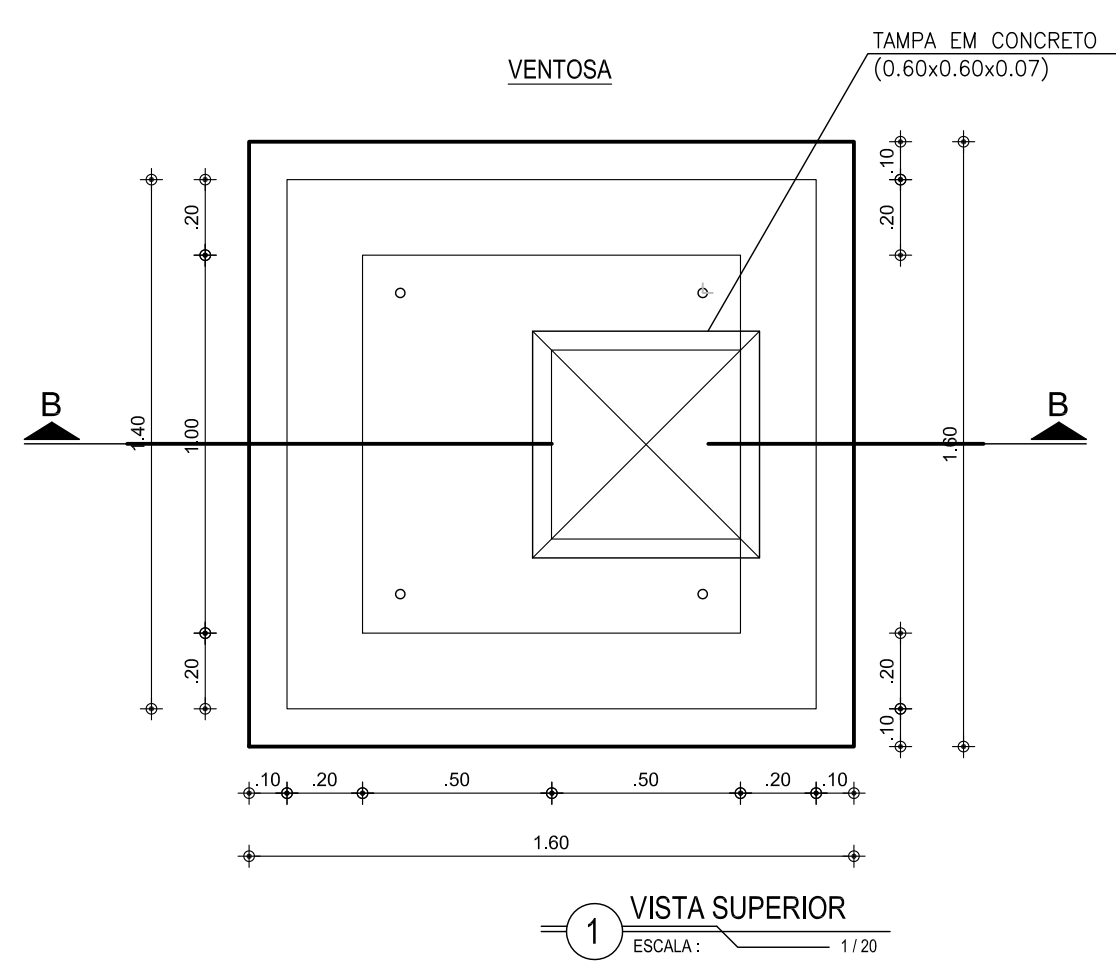
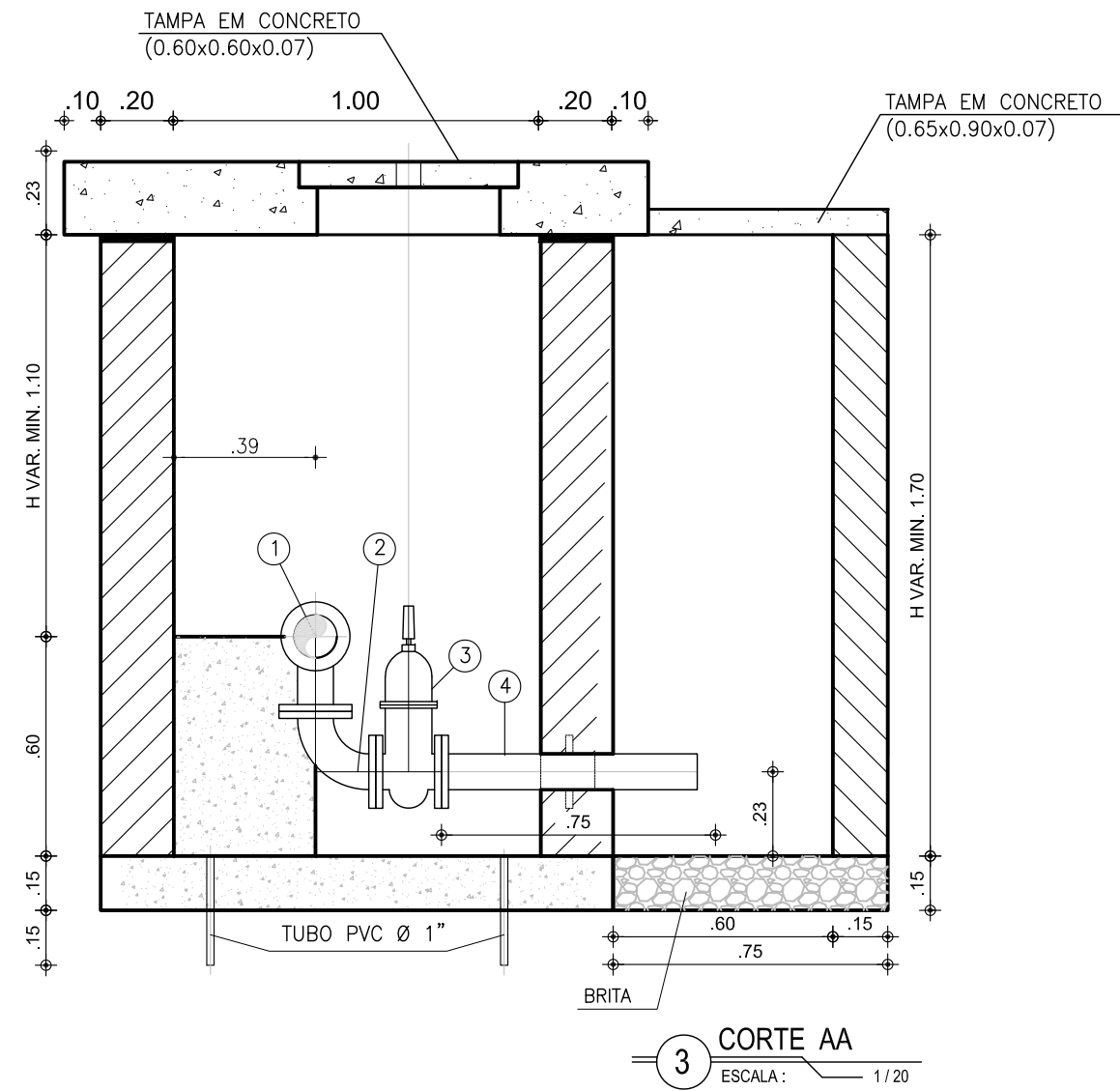
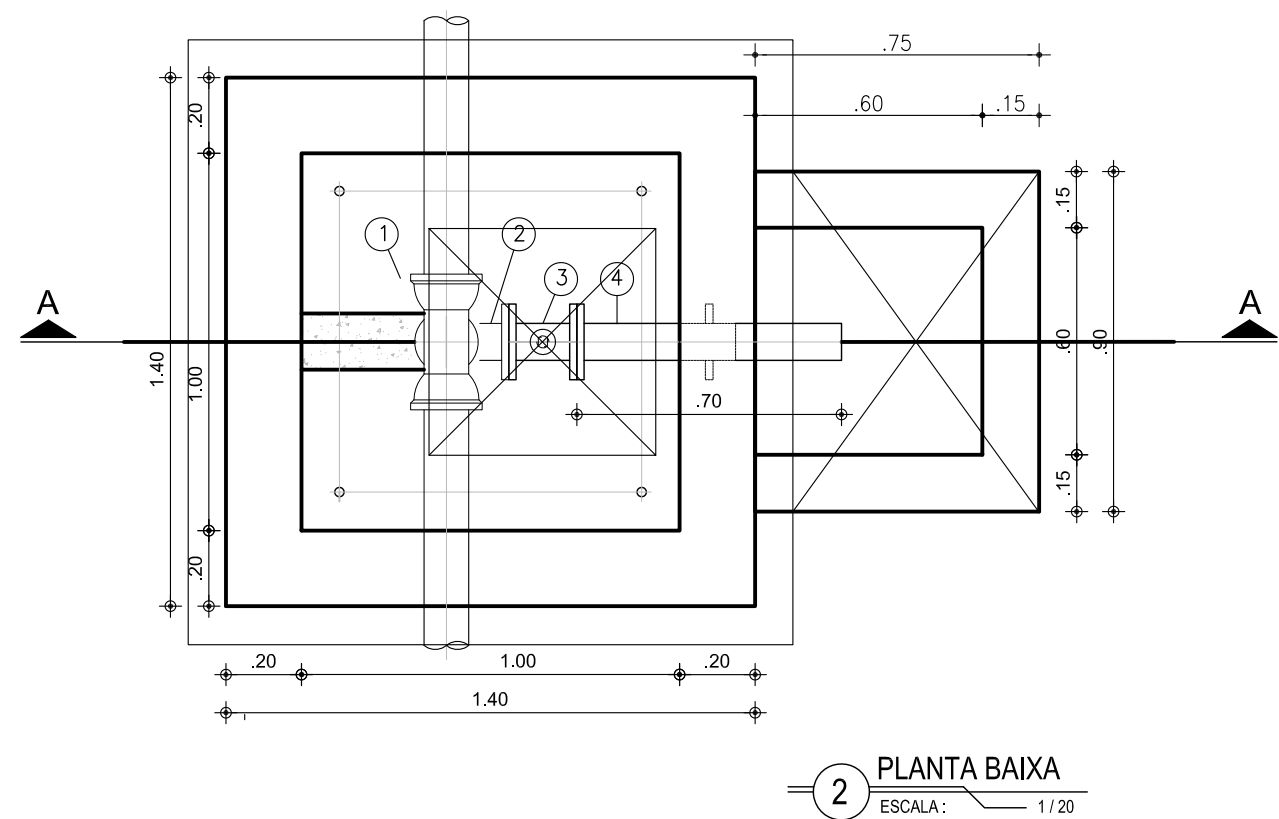
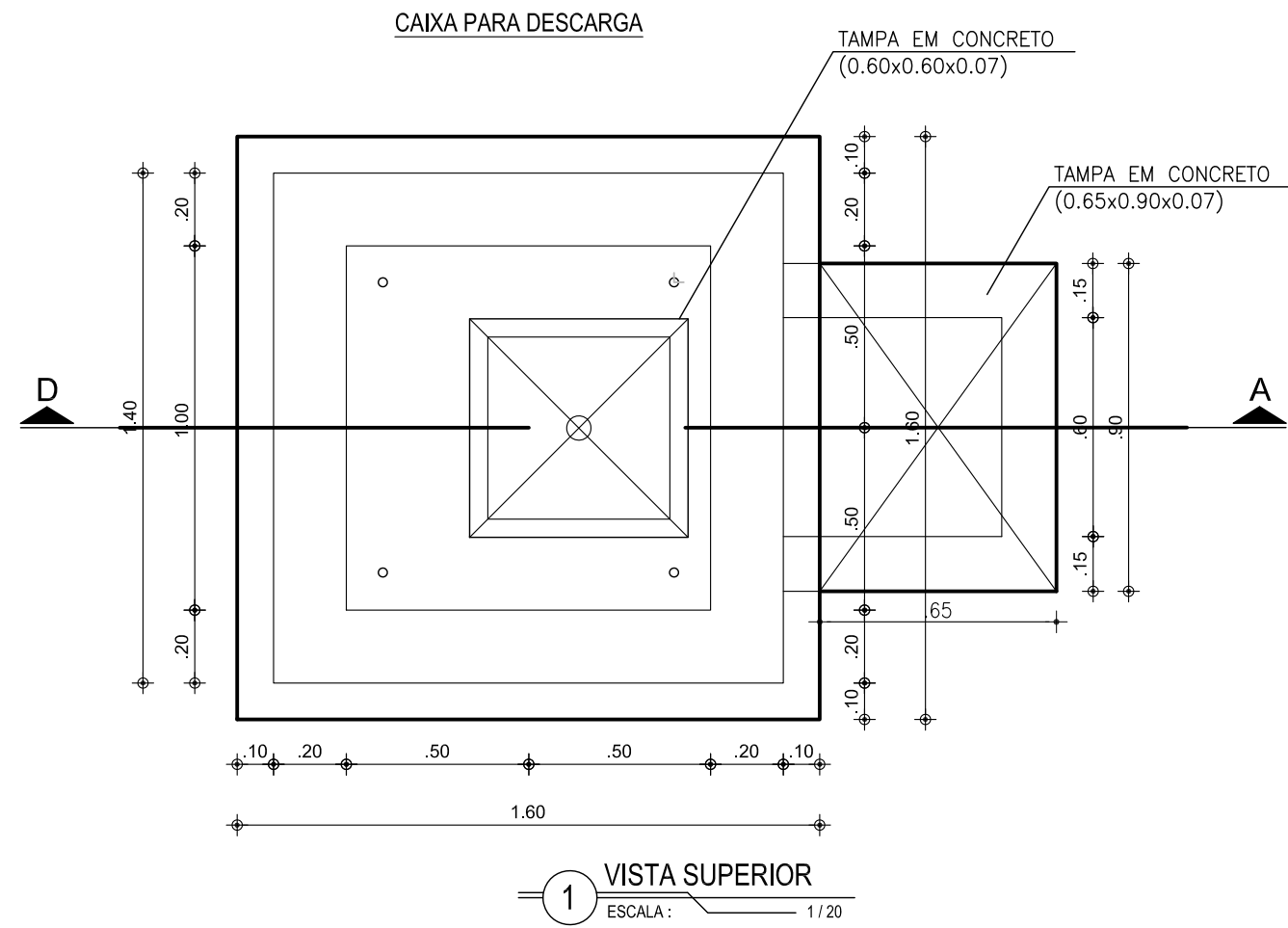
LOCALIZAÇÃO		COORDENADAS		COTA	COTA	PROFUND.
Nº	ESTACAS	X	Y	TERRENO	PROJETO	
RAP	Est. 000 + 0.00m	329.490.3351	9.591.902.4609	678.276	677.226	1,050m
V1	Est. 006 + 0.00m	329.391.4569	9.591.871.2254	698.098	697.048	1,050m
D1	Est. 014 + 0.00m	329.255.6477	9.591.950.4180	689.835	688.785	1,050m
V2	Est. 016 + 0.00m	329.246.9685	9.591.984.7294	695.774	694.724	1,050m
D2	Est. 022 + 3.69m	329.272.2076	9.592.094.6593	688.953	687.903	1,050m
REL	Est. 024 + 0.83m	329.243.0406	9.592.117.7365	701.620	700.570	1,050m

LEGENDA

- TERRENO
- ADUTORA DE RECALQUE PROJETADA
- C22° FoFo BB
- C45° FoFo BB
- C90° FoFo BB
- ESTAÇÃO ELEVATÓRIA
- REGISTRO DE DESCARGA
- VENTOSA

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA		MUNICÍPIO: SOBRAL	LOCALIDADE: DESTERRO
ASSUNTO: ADUTORA DE RECALQUE Ø75mm CAMINHAMENTO E PERFIL		PREFEITURA MUNICIPAL DE SOBRAL	
DESENHO: Marcos Ximenes	ESCALA: INDICADA	DATA: 29/06/21	PRANCHETA: 09/16



RELAÇÃO DE MATERIAIS

ITEM	DISCRIMINAÇÃO	DIAM. mm	QUANT.
VÁLVULA DE DESCARGA			
01	TÊ EM F" C/ BOLSA E FLANGE JE PN 10	75x50	1
02	CURVA FoFo 90 FF PARA ÁGUA PN10	50	1
03	REGISTRO FLANGE/CABEÇOTE DN 50 PN10	50	1
04	EXTREMIDADE PF C/ ABA DE VEDAÇÃO PN10	50	1
VENTOSA			
07	VENTOSA SIMPLES C/ FLANGES	50	1
08	REGISTRO FLANGE/CABEÇOTE DN 50 PN10	50	1
09	TÊ EM F" C/ BOLSA E FLANGE JE PN 10	75x50	1

OBS:

- 1) AS COTAS NÃO ESPECIFICADAS SÃO DADAS EM METRO;
2) AS PAREDES DE ALVENARIA SERÃO EXECUTADA EM ALVENARIA DOBRADA

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA

MUNICÍPIO: SOBRAL

LOCALIDADE: DESTERRO

ASSUNTO: VENTOSA, REGISTRO DE DESCARGA
ADUTORA ϕ 75mm

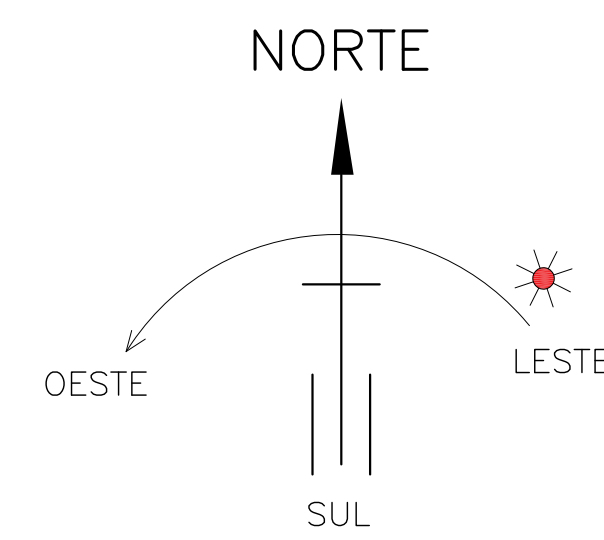
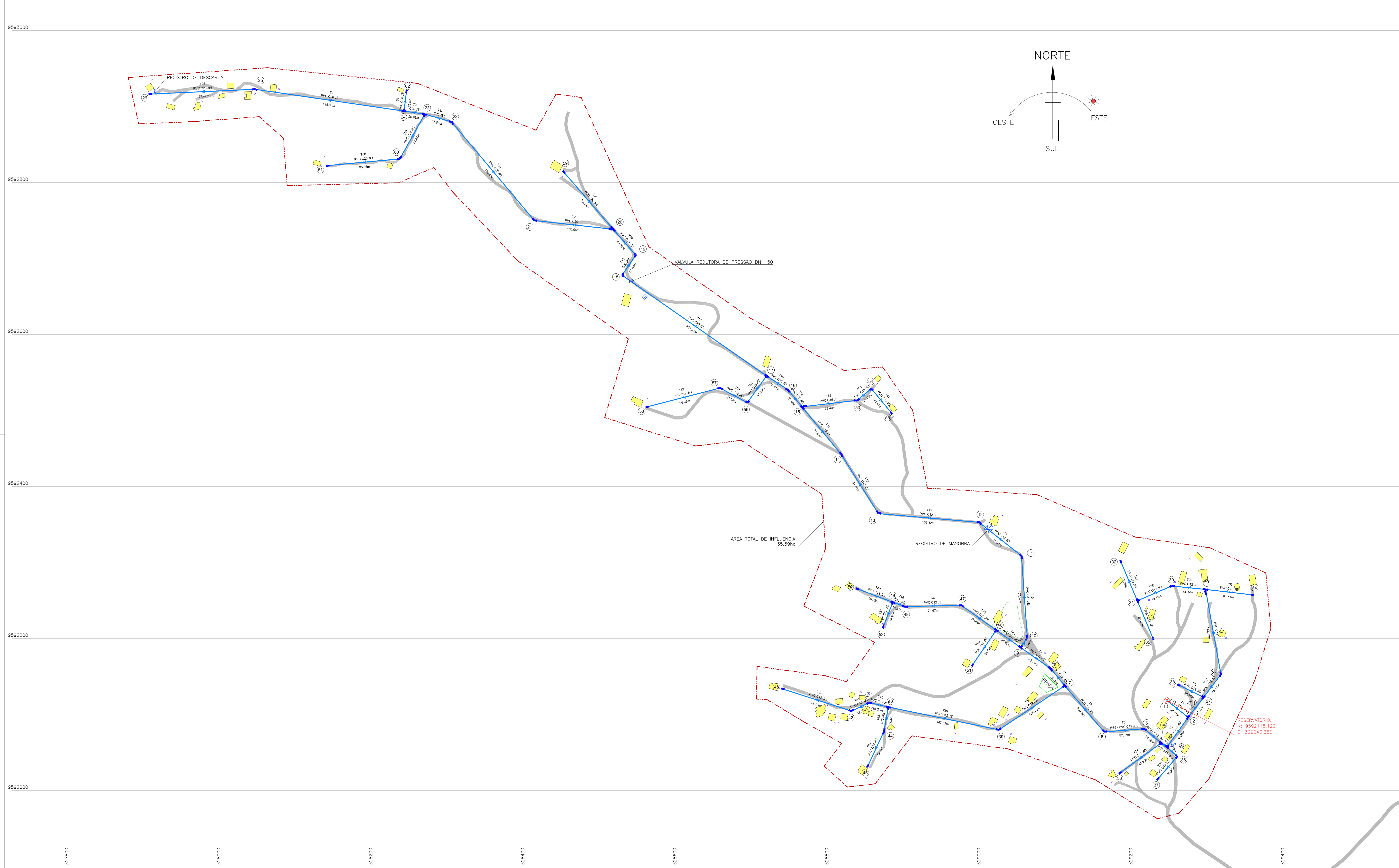


DESENHO: Marcos Ximenes

ESCALA: INDICADA

DATA: 29/06/2021

PRIMEIRO: 10/16



DADOS DOS NÓS				
Nº	ESTE	NORTE	C. TERRENO	CONEXÃO
N1	9.592.118.000	329.243.300	701.820	C 90 PB DN 75
N2	9.592.096.000	329.271.500	688.830	TE C/ RED DN 75x50
N3	9.592.087.100	329.242.800	689.290	TE C/ RED DN 75x50
N4	9.592.062.740	329.238.130	692.000	TE C/ RED DN 75x50
N5	9.592.081.480	329.213.370	688.800	C 45 PB DN 50
N6	9.592.077.000	329.161.100	683.710	RED C/ B DN 75 x 50
N7	9.592.137.310	329.109.210	677.770	TE C/ B DN 50
N8	9.592.160.000	329.080.520	673.330	C 22 PB DN 50
N9	9.592.188.120	329.050.800	672.710	TE C/ B DN 50
N10	9.592.201.010	329.039.540	672.130	C 45 PB DN 50
N11	9.592.308.330	329.022.160	664.660	C 45 PB DN 50
N12	9.592.352.370	328.996.470	658.000	C 45 PB DN 50
N13	9.592.364.190	328.983.830	647.710	C 45 PB DN 50
N14	9.592.442.330	328.815.000	642.200	C 22 PB DN 50
N15	9.592.505.000	328.762.790	638.810	C 22 PB DN 50
N16	9.592.527.060	328.744.760	635.590	C 22 PB DN 50
N17	9.592.545.030	328.716.740	633.000	TE C/ B DN 50
N18	9.592.678.490	328.528.770	609.250	C 90 PB DN 50
N19	9.592.704.690	328.544.240	603.800	C 90 PB DN 50
N20	9.592.738.910	328.515.130	600.900	JUNÇÃO AS C/ B DN 50
N21	9.592.750.190	328.410.690	592.000	C 45 PB DN 50
N22	9.592.879.400	328.302.550	577.890	C 45 PB DN 50
N23	9.592.893.420	328.286.520	570.700	TE C/ B DN 50
N24	9.592.894.240	328.239.810	566.040	TE C/ B DN 50
N25	9.592.922.220	328.543.110	545.310	C 22 PB DN 50
N26	9.592.916.710	327.905.750	533.170	CAP DN 50
N27	9.592.122.140	329.291.900	699.790	TE C/ B DN 50
N28	9.592.152.980	329.244.110	691.780	C 45 PB DN 50
N29	9.592.264.000	329.294.100	688.230	C 22 PB DN 50
N30	9.592.264.000	329.294.100	688.230	TE C/ B DN 50
N31	9.592.265.710	329.293.310	693.000	C 45 PB DN 50
N32	9.592.249.850	329.204.500	676.590	TE C/ B DN 50
N33	9.592.302.820	329.162.010	671.300	CAP DN 50
N34	9.592.138.830	329.228.910	691.250	CAP DN 50
N35	9.592.257.830	329.355.400	697.530	CAP DN 50
N36	9.592.198.330	329.225.440	686.530	CAP DN 50
N37	9.592.044.870	329.257.120	691.120	C 90 PB DN 50
N38	9.592.023.140	329.181.130	689.030	CAP DN 50
N39	9.592.080.080	329.021.840	681.830	C 45 PB DN 50
N40	9.592.109.920	328.877.220	678.260	TE C/ B DN 50
N41	9.592.115.710	328.851.340	679.460	TE C/ B DN 50
N42	9.592.104.440	328.827.900	678.250	C 45 PB DN 50
N43	9.592.133.690	328.738.090	665.110	CAP DN 50
N44	9.592.078.250	328.870.520	673.000	C 22 PB DN 50
N45	9.592.032.270	328.849.820	668.500	CAP DN 50
N46	9.592.210.580	329.019.300	669.880	TE C/ B DN 50
N47	9.592.243.290	328.973.160	666.250	C 45 PB DN 50
N48	9.592.241.570	328.988.510	669.360	C 22 PB DN 50
N49	9.592.247.590	328.983.140	669.360	TE C/ B DN 50
N50	9.592.265.110	328.836.040	670.310	CAP DN 50
N51	9.592.165.310	328.987.550	673.500	CAP DN 50
N52	9.592.214.980	328.870.500	672.000	CAP DN 50
N53	9.592.512.980	328.835.740	639.070	C 45 PB DN 50
N54	9.592.528.950	328.824.230	641.900	C 90 PB DN 50
N55	9.592.496.750	328.880.610	642.700	CAP DN 50
N56	9.592.510.300	328.891.700	637.890	C 90 PB DN 50
N57	9.592.520.710	328.855.560	631.560	C 45 PB DN 50
N58	9.592.504.720	328.559.750	651.000	CAP DN 50
N59	9.592.813.690	328.449.600	597.500	CAP DN 50
N60	9.592.830.690	328.234.300	570.000	C 45 PB DN 50
N61	9.592.822.160	328.139.410	570.060	CAP DN 50
N62	9.592.919.800	328.243.050	567.000	CAP DN 50

RESUMO CONEXÕES	
C 22 PB DN 50	08 und
C 45 PB DN 50	16 und
JUNÇÃO AS C/ B DN 50	01 und
C 90 PB DN 50	06 und
CAP DN 50	17 und
TE C/ B DN 50	13 und
C 90 PB DN 75	01 und
RED C/ B DN 75 x 50	01 und
TE C/ RED DN 75x50	03 und

DADOS DOS TRECHOS									
Trecho	Nº montaria	Nº junta	DN (mm)	C+ 12	C+ 15	C+ 20			
T1	N1	N2	75	35,77m					
T2	N2	N3	75	48,29m					
T3	N3	N4	75	8,87m					
T4	N4	N5	75	29,46m					
T5	N5	N6	75	52,37m					
T6	N6	N7	50	79,62m					
T7	N7	N8	50	29,72m					
T8	N8	N9	50	48,21m					
T9	N9	N10	50	15,46m					
T10	N10	N11	50	107,67m					
T11	N11	N12	50	71,10m					
T12	N12	N13	50	133,42m					
T13	N13	N14	50	91,20m					
T14	N14	N15	50	81,89m					
T15	N15	N16	50	28,48m					
T16	N16	N17	50	33,61m					
T17	N17	N18	50		231,82m				
T18	N18	N19	50		31,75m				
T19	N19	N20	50		44,70m				
T20	N20	N21	50		105,96m				
T21	N21	N22	50		168,49m				
T22	N22	N23	50		37,59m				
T23	N23	N24	50		26,96m				
T24	N24	N25	50		189,64m				
T25	N25	N26	50		137,25m				
T26	N26	N27	50	33,12m					
T27	N27	N28	50	38,12m					
T28	N28	N29	50	112,86m					
T29	N29	N30	50	44,14m					
T30	N30	N31	50	49,46m					
T31	N31	N32	50	57,55m					
T32	N27	N33	50	37,07m					
T33	N29	N34	50	61,60m					
T34	N31	N35	50	55,65m					
T35	N3	N36	50	18,63m					
T36	N36	N37	50	39,45m					
T37	N4	N38	50	67,29m					
T38	N7	N39	50	104,45m					
T39	N39	N40	50	147,67m					
T40	N40	N41	50	26,52m					
T41	N41	N42	50	29,17m					
T42	N42	N43	50	94,46m					
T43	N43	N44	50	32,37m					
T44	N44	N45	50	50,47m					
T45	N9	N46	50	38,82m					
T46	N46	N47	50	56,44m					
T47	N47	N48	50	74,67m					
T48	N48	N49	50	16,51m					
T49	N49	N50	50	50,25m					
T50	N48	N51	50	55,52m					
T51	N49	N52	50	34,97m					
T52	N15	N53	50		73,49m				
T53	N53	N54	50		24,45m				
T54	N54	N55	50		41,61m				
T55	N17	N56	50		43,39m				
T56	N56	N57	50		41,02m				
T57	N57	N58	50	99,62m					
T58	N20	N59	50		99,36m				
T59	N53	N60	50		67,84m				
T60	N60	N61	50		8,35m				
T61	N24	N62	50	2.274,18m	367,76m	1.170,77m			

RESUMO TRECHOS	
DN 75mm	176,77m
DN 50mm	3.737,87m
	3.912,65m

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA

ASSUNTO: LOCAÇÃO REDE DE DISTRIBUIÇÃO

MUNICÍPIO: SOBRAL

LOCALIDADE: DESTERRO

TOPOGRAFIA: Washington

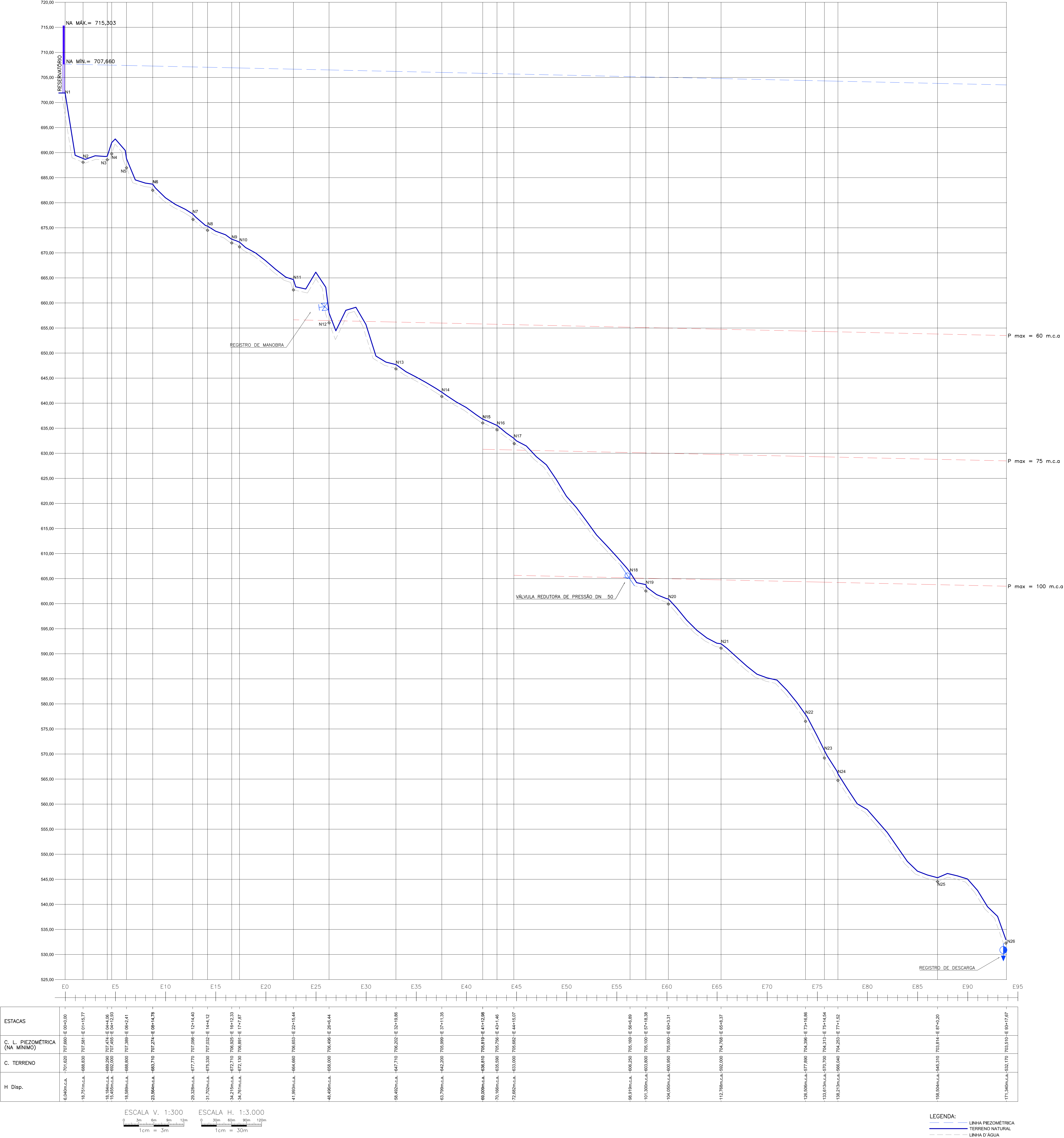
PROJETO: Marcos Ximenes

DATA: 15/06/2021

PREÇO: 12/16

PREFEITURA MUNICIPAL DE SOBRAL

PERFIL LONGITUDINAL – RAMAL PRINCIPAL



- LEGENDA:
- RG DE MANOBRA
 - RG DE DESCARGA
 - VÁLVULA REDUTORA DE PRESSÃO

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA

MUNICÍPIO: SOBRAL

LOCALIDADE: DESTERRO

ASSUNTO:

REDE DE DISTRIBUIÇÃO
PERFIL DO RAMAL PRINCIPAL

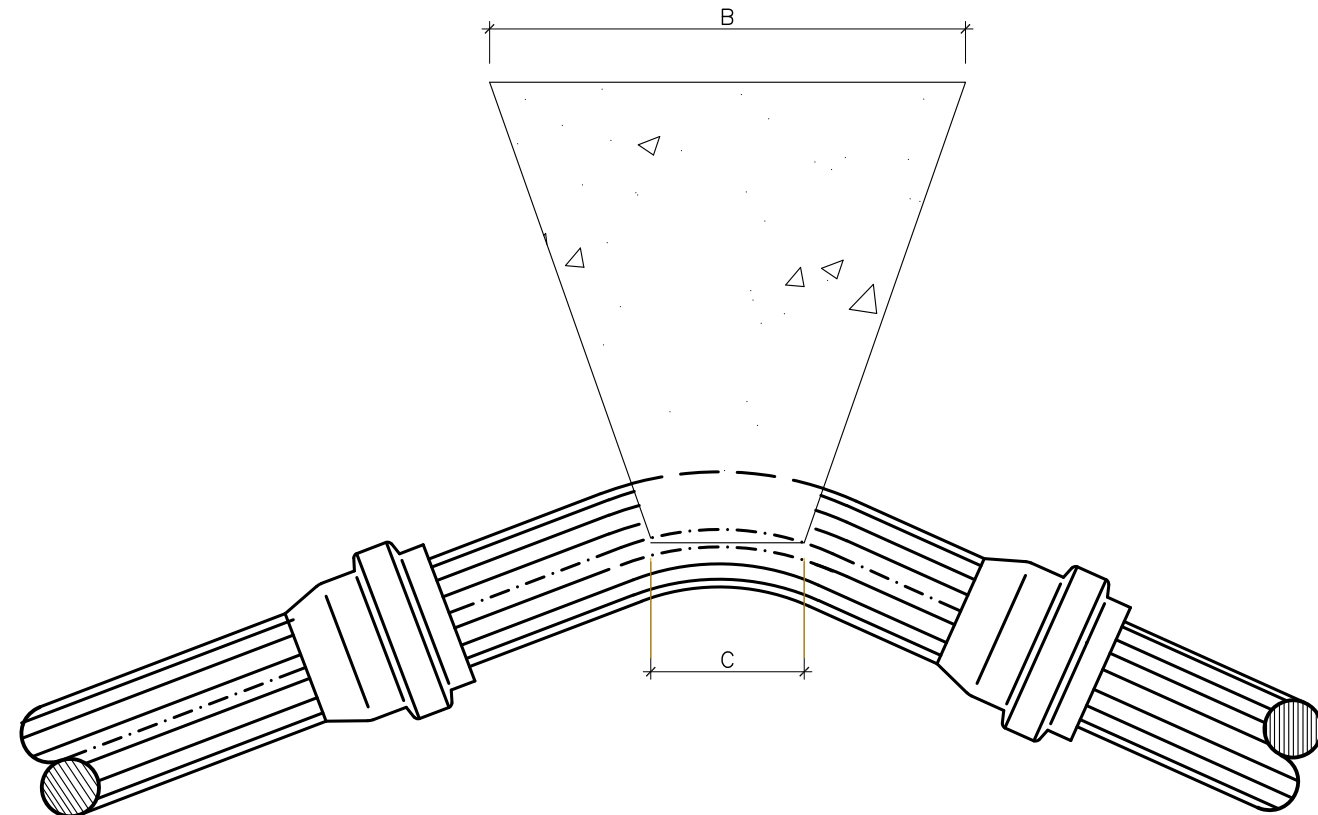
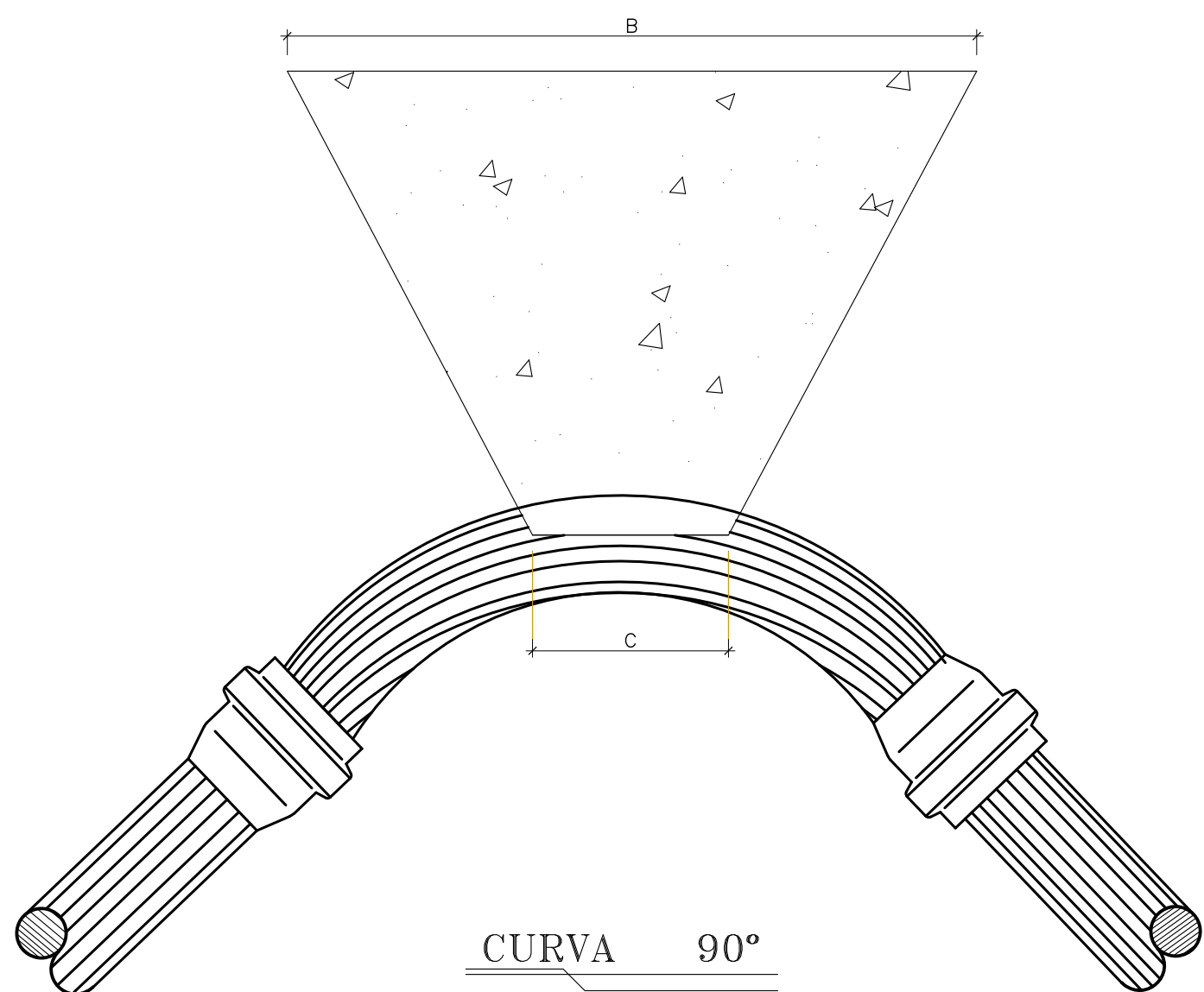
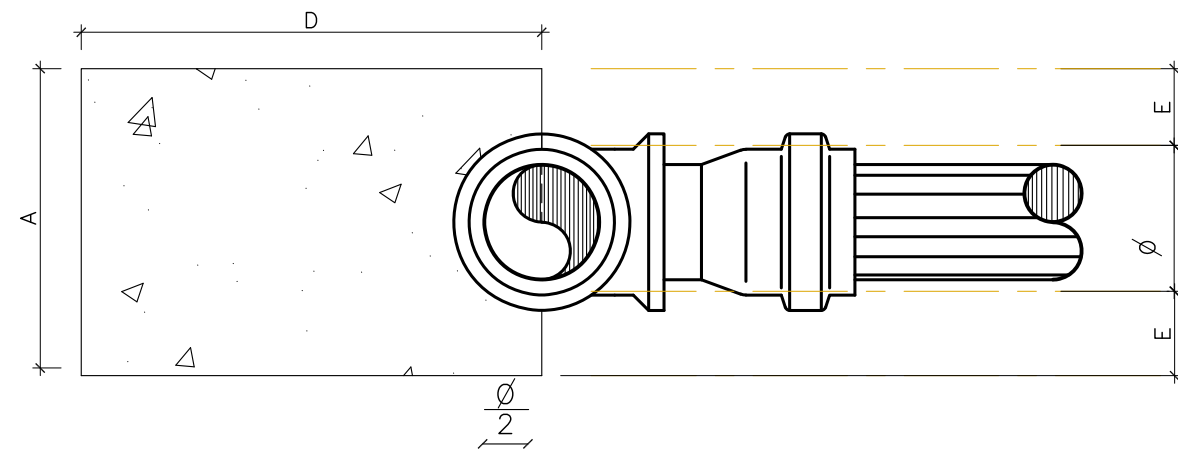
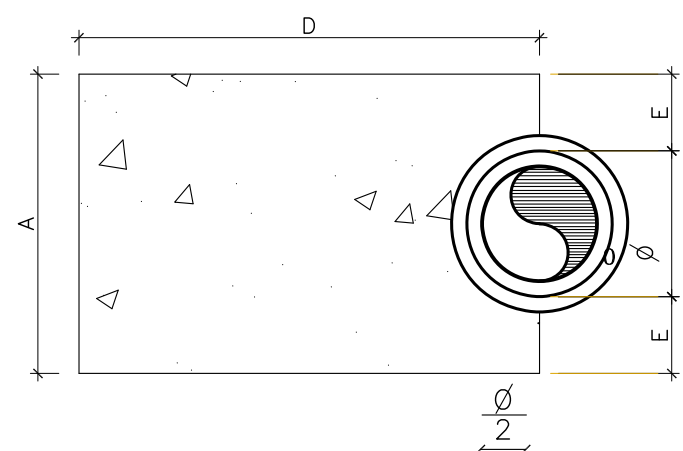
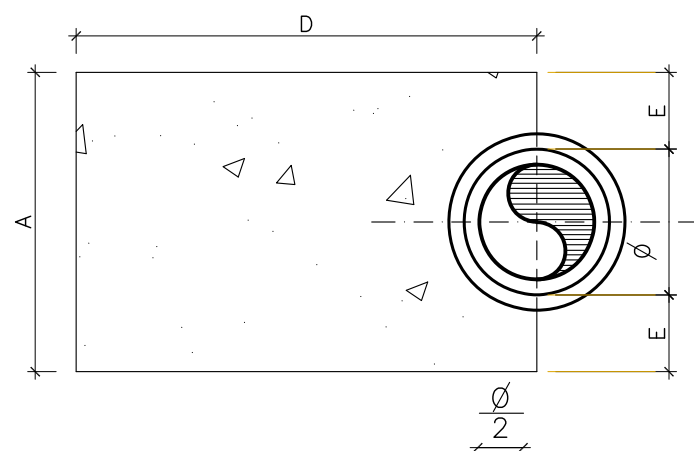
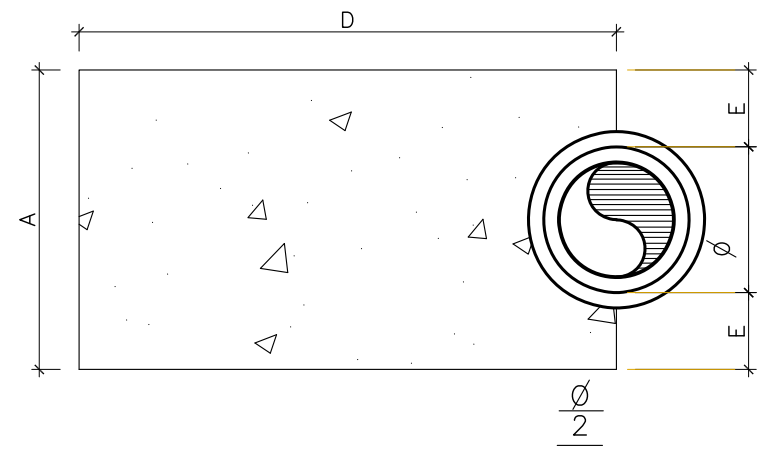


TOPOGRAFIA: Washington

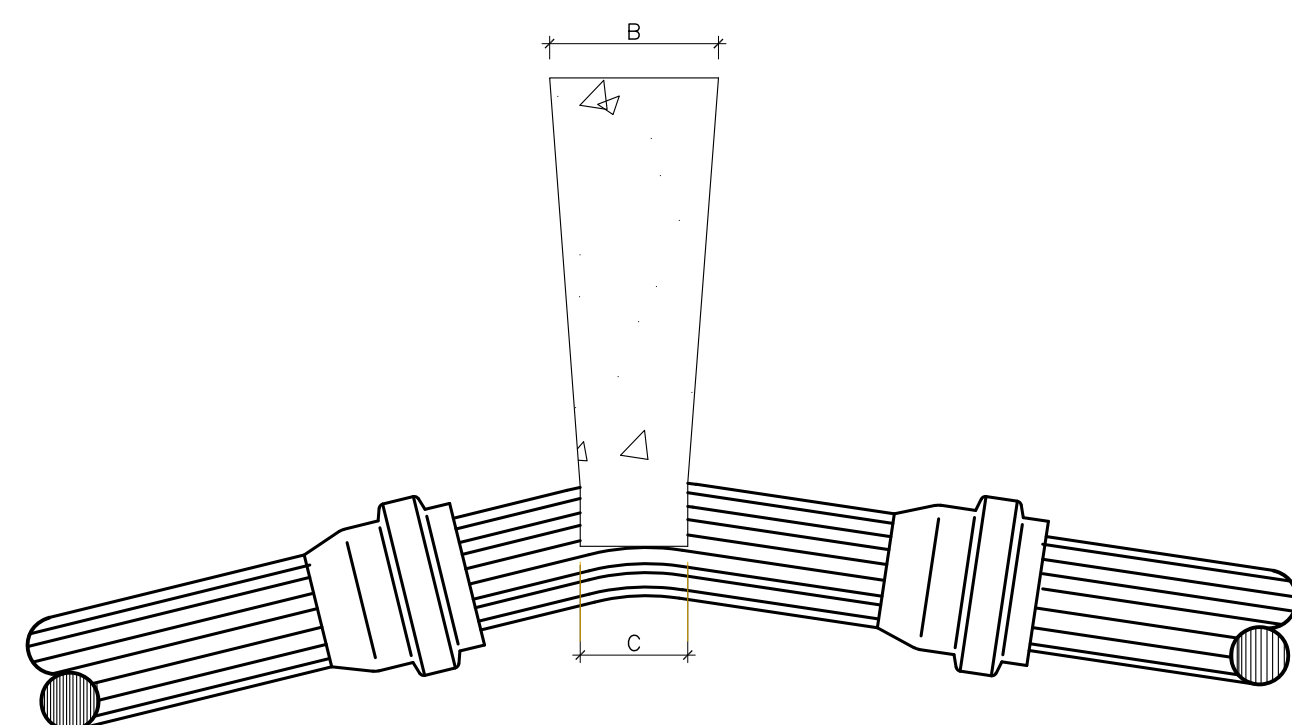
DESENHO: Marcos Ximenes

DATA: 15/06/2021

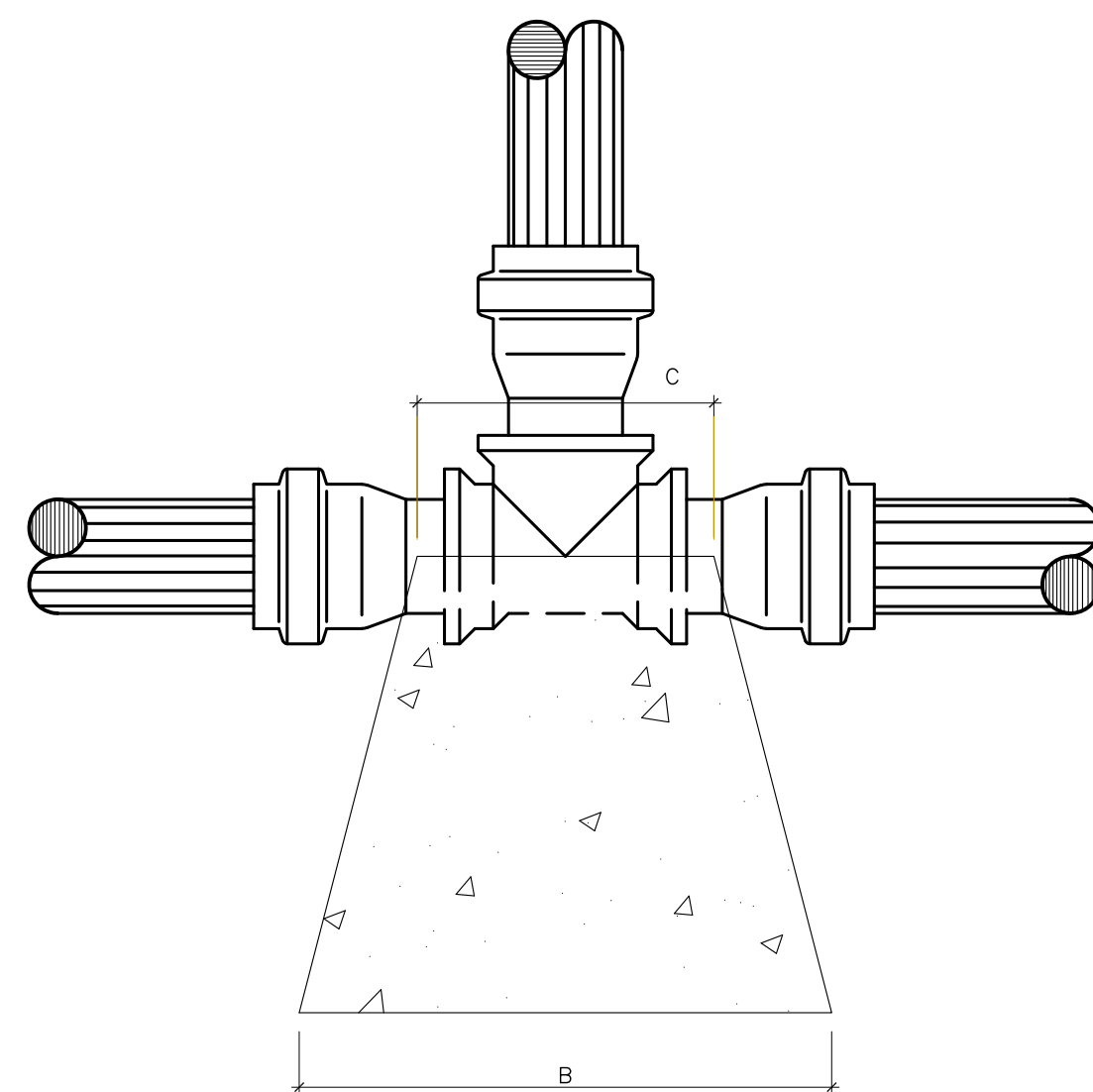
FOLHA: 13/16



CURVA 45°



CURVA 22° 30'



T E E S

NOTAS:

- 1 - BLOCOS DIMENSIONADOS PARA TERRENOS COM TAXA ADMISSIVEL DE 0,5kg/cm2 NA PAREDE DA VALA (TERRA VEGETAL).
- 2 - PARA OUTROS TERRENOS PODE-SE AJUSTAR AS DIMENSÕES A e B MUDANDO-AS PARA A1 e B1 DE FORMA QUE $A \times B \times 0,5 = A1 \times B1 \times 0,5$.
- 3 - TAXAS ADMISSIVEIS P/ VARIOS TIPOS DE SOLO NA PAREDE DA VALA EM kg/cm2.

MATERIAL	Øt
LODO	0
ARGILA UMEDECIDA	0,25
TERRA VEGETAL	0,50
ARGILA ARENOSA	0,75
ARGILA COMPACTADA	1,00
SAIBRO	1,50
ROCHA BRANDA	5,00

DIMENSÕES DOS BLOCOS
PRESSÃO - 5kg / cm2

CURVA 90°					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	15	34	10	35	5
75	19,5	52	15	35	6
100	30	60	18	35	10
150	55	70	24	35	20
200	70	93	28	45	25

CURVA 45°					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	15	20	7	30	5
75	19,5	31	10	30	6
100	30	34	12	30	10
150	45	45	14	30	15
200	60	76	18	30	20

CURVA 22° 30'					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	15	10	5	30	5
75	19,5	11	7	30	6
100	30	14	8	30	10
150	45	23	10	30	15
200	50	36	12	30	15

TEES					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	15	24	10	30	5
75	19,5	36	15	30	6
100	30	40	20	30	10
150	45	56	30	30	15
200	60	75	30	30	20

CAPS					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	10	35	10	30	-
75	20	35	15	30	5
100	28	43	18	30	10
150	38	66	23	30	15
200	50	90	30	40	20

DIMENSÕES DOS BLOCOS
PRESSÃO - 7,5kg / cm2

CURVA 90°					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	15	50	10	35	5
75	23,5	64	15	35	8
100	40	68	18	40	15
150	71	80	24	40	28
200	100	100	28	50	40

CURVA 45°					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	15	30	7	30	5
75	19,5	47	10	30	6
100	30	50	12	30	10
150	55	55	14	30	20
200	70	77	18	35	25

CURVA 22° 30'					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	15	15	5	30	5
75	19,5	16	7	30	6
100	30	20	8	30	10
150	45	34	10	30	15
200	50	54	12	30	15

TEES					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	15	35	10	34	5
75	19,5	54	15	30	6
100	30	60	20	30	10
150	55	68	30	30	20
200	70	97	40	35	25

CAPS					
Ø	A	B	C	D	E
mm	cm	cm	cm	cm	cm
50	10	53	10	30	5
75	20	53	15	30	5
100	28	65	18	35	10
150	45	84	23	40	22
200	70	97	30	50	40

C A P S

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA

MUNICÍPIO: SOBRAL

LOCALIDADE: DESTERRO

ASSUNTO:

DET. BLOCO DE ANCORAGEM



PREFEITURA MUNICIPAL DE SOBRAL

DESENHO: Marcos Ximenes

ESCALA: SEM ESCALA

DATA: 15/06/2021

FRAÇÃO: 14 / 16

The diagram shows a mechanical assembly in cross-section. A horizontal shaft passes through two main components. On the left, a component with diagonal hatching contains a central rectangular hole. A vertical rod passes through this hole. A pulley with a V-groove is mounted on the shaft at the center of this component. The pulley has a diameter dimensioned as .90. The shaft has a diameter dimensioned as .60. To the right of the pulley, the shaft passes through another part of the same component, which also has a central rectangular hole. This part is secured by a pin labeled '1' and a lock washer labeled '2'. There are three callouts labeled '3' pointing to different parts: one points to the pulley's hub, another points to the central rectangular hole, and the third points to the shaft itself. Dimensions for this section include a total width of .90 (split into .15, .60, and .15) and a total height of .90 (split into .15, .60, and .15). A break symbol (two wavy lines) indicates the shaft continues. To the right, the shaft enters a second component, also with diagonal hatching, which has a large central rectangular hole. The shaft passes through this hole. Dimensions for this section include a total width of .60 (split into .15 and .50) and a total height of .80 (split into .15, .50, and .15). The shaft ends at a circular feature labeled 'A' on both ends.

Technical drawing of a rectangular structure, likely a foundation or wall section, showing dimensions and a variable label.

Dimensions:

- Top horizontal dimensions: .08, .35, .05, .35, .08
- Left vertical dimensions: .12, .13, .20, .15
- Bottom horizontal dimensions: .15, .60, .15

Labels and Features:

- A label "VARIÁVEL" is positioned vertically along the left side.
- A circular feature with a crosshair inside is labeled "1" with a leader line.
- The drawing includes hatching patterns: diagonal lines in the side sections and a stippled pattern in the top and bottom sections.

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and a callout.

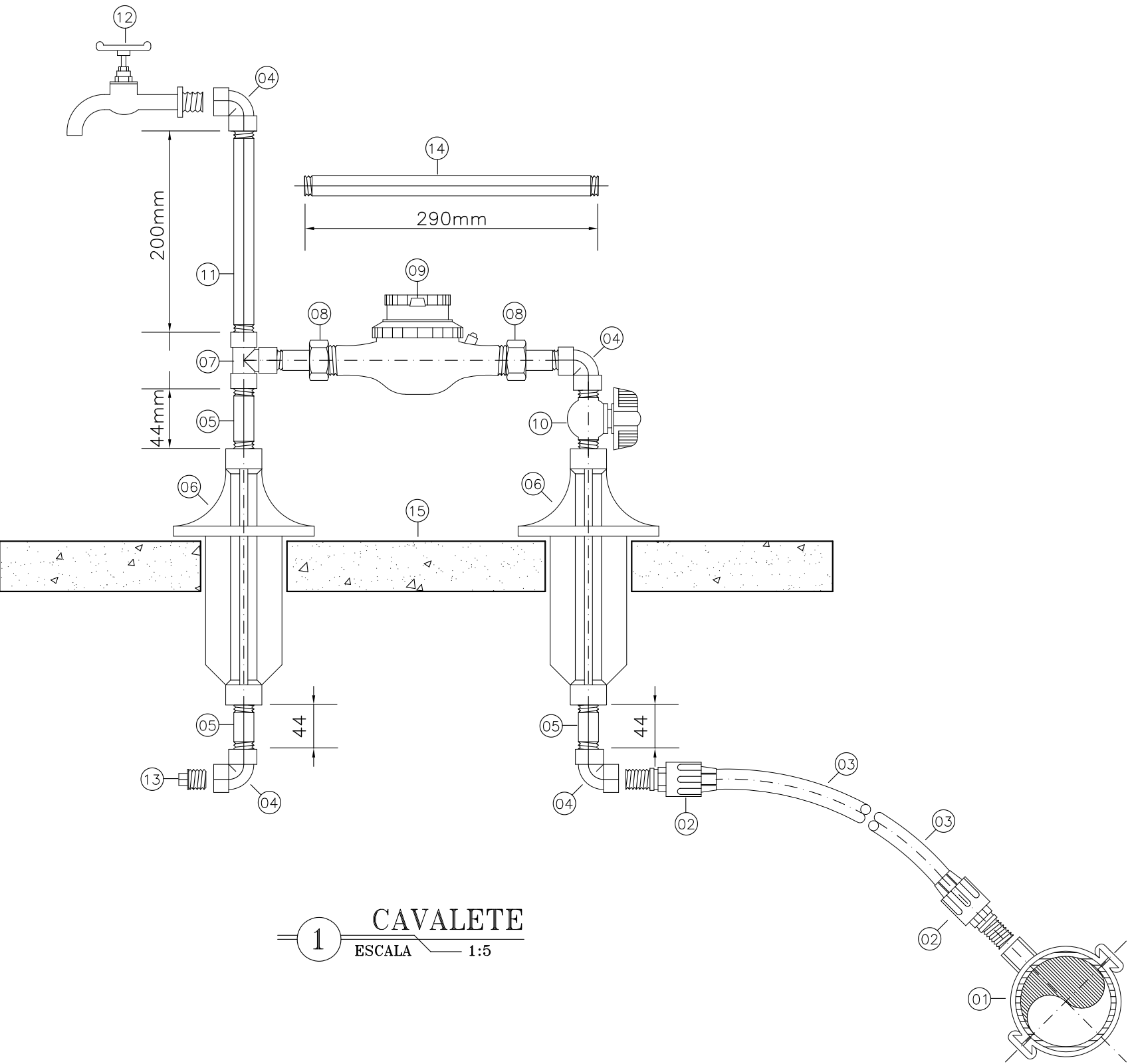
Dimensions:

- Top horizontal dimensions: .08, .35, .90, .35, .08
- Left vertical dimensions: .12, .13
- Right vertical dimension: .12
- Bottom horizontal dimensions: .15, .60, .15
- Bottom vertical dimensions: .20, .15

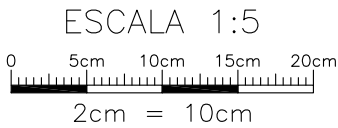
Callout:

- Callout 4 points to a detail view of a bolt and nut assembly.

ITEM	DISCRIMINACAO	DIAM. mm	QUAN
VÁLVULA DE DESCARGA			
01	REGISTRO DE GAVETA	50	1
02	TE C/ BOLSAS	50x50	1
03	TUBO C/ BOLSAS	50	1
DIPOSITIVO DE MANOBRA			
01	REGISTRO DE GAVETA	50	1
VÁLVULA REDUTORA DE PRESSÃO			
04	VÁLVULA REDUTORA DE PRESSÃO	50	1



1 CAVALETE
ESCALA 1:5



RELACAO DE MATERIAIS

ITEM	DESCRIMINACAO	MAT.	QUANT. un.	DIAM. mm
01	COLAR DE TOMADA	PVCxFoFo	01	– x3/4”
02	ADAPTADOR P/ POLIETILENO	PVC	02	20x3/4”
03	TUBO POLIETILENO	PEAD	VER.	20
04	JOELHO 90º ROSCAVEL	PVC	04	3/4”
05	TOCO ROSCAVEL L=70mm	PVC	03	3/4”
06	TUBO ALETADO	PVC	02	3/4”
07	TE 90º ROSCAVEL	PVC	01	3/4”
08	TUBETE C/ PORCA	BRONZE	02	3/4”
09	HIDROMETRO C/ TAMPA PROTETORA	BRONZE	01	3/4”
10	REGISTRO DE ESFERRA C/ BORBOLETA	PVC	01	3/4”
11	TOCO ROSCAVEL L=230mm	PVC	01	3/4”
12	TORNEIRA ROSCAVEL	BRONZE	01	3/4”
13	BUJAO	PVC	01	3/4”
14	” CANETA PADRAO” L=290mm	PVC	01	3/4”
15	PLACA 300x600x50mm	CONCRETO	01	–

PREFEITURA MUNICIPAL DE SOBRAL

SISTEMA DE ABASTECIMENTO DE ÁGUA		MUNICIPIO: SOBRAL	LOCALIDADE: DESTERRO
ASSUNTO: PADRAO DE LIGACAO PREDIAL DE AGUA DE 3/4” CAVALETE (COLOCACAO NO RECUO)			 PREFEITURA MUNICIPAL DE SOBRAL
DESENHO: Marcos Ximenes	ESCALA: INDICADA	DATA: 15/06/2021	PRANCHA: 16/16