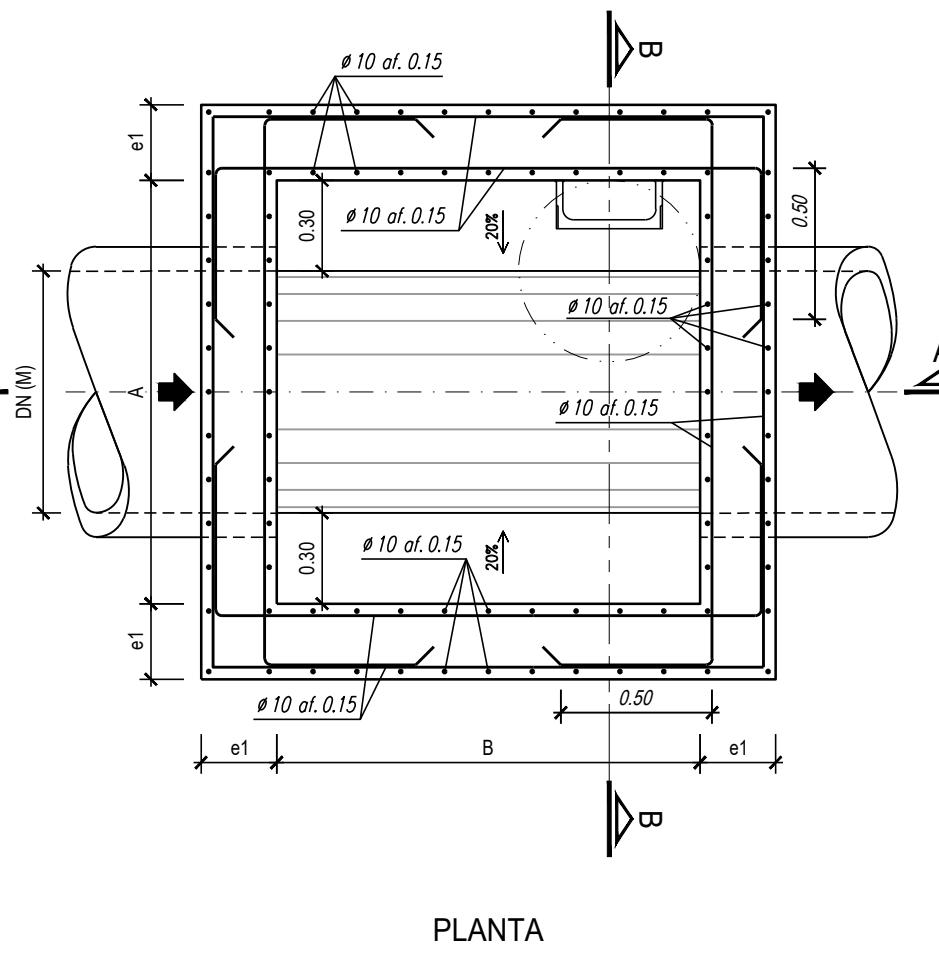
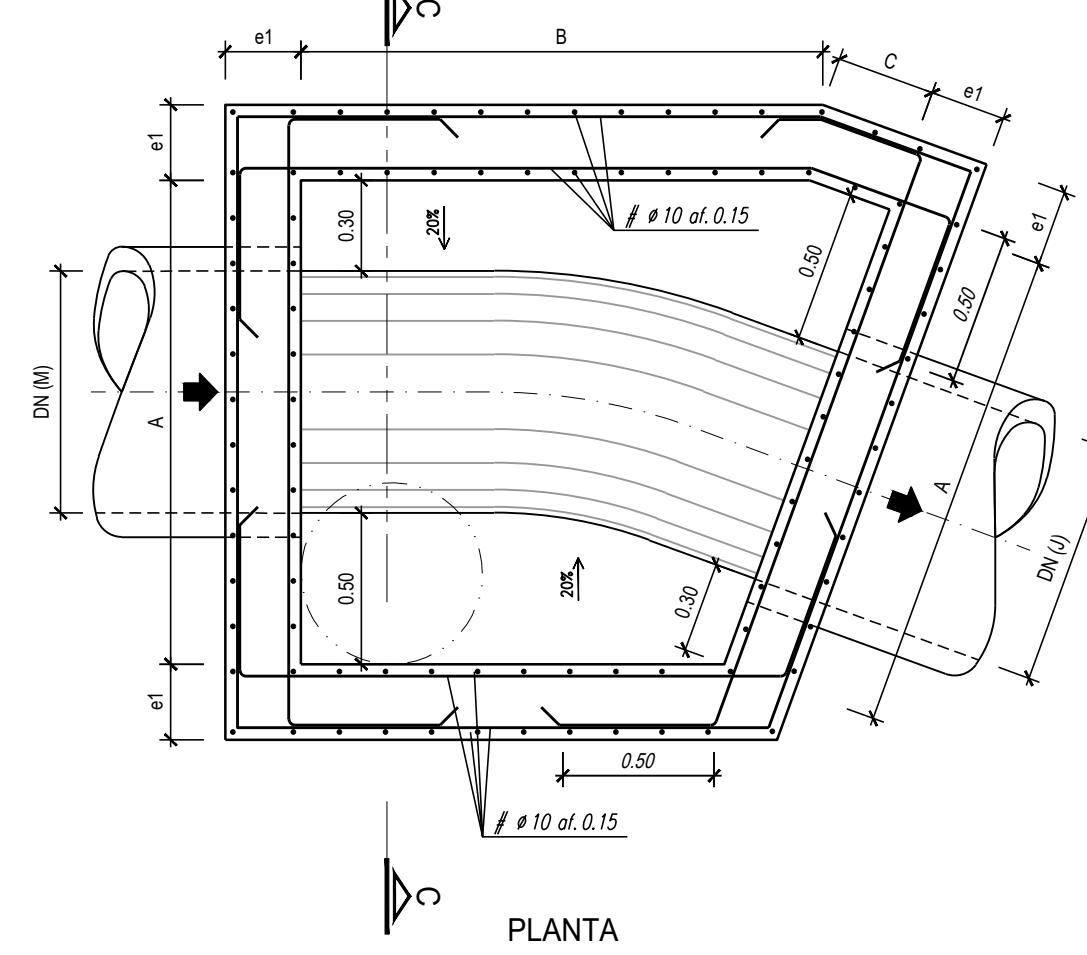


CAIXA DE PASSAGEM COM CURVA INFERIOR A 10°



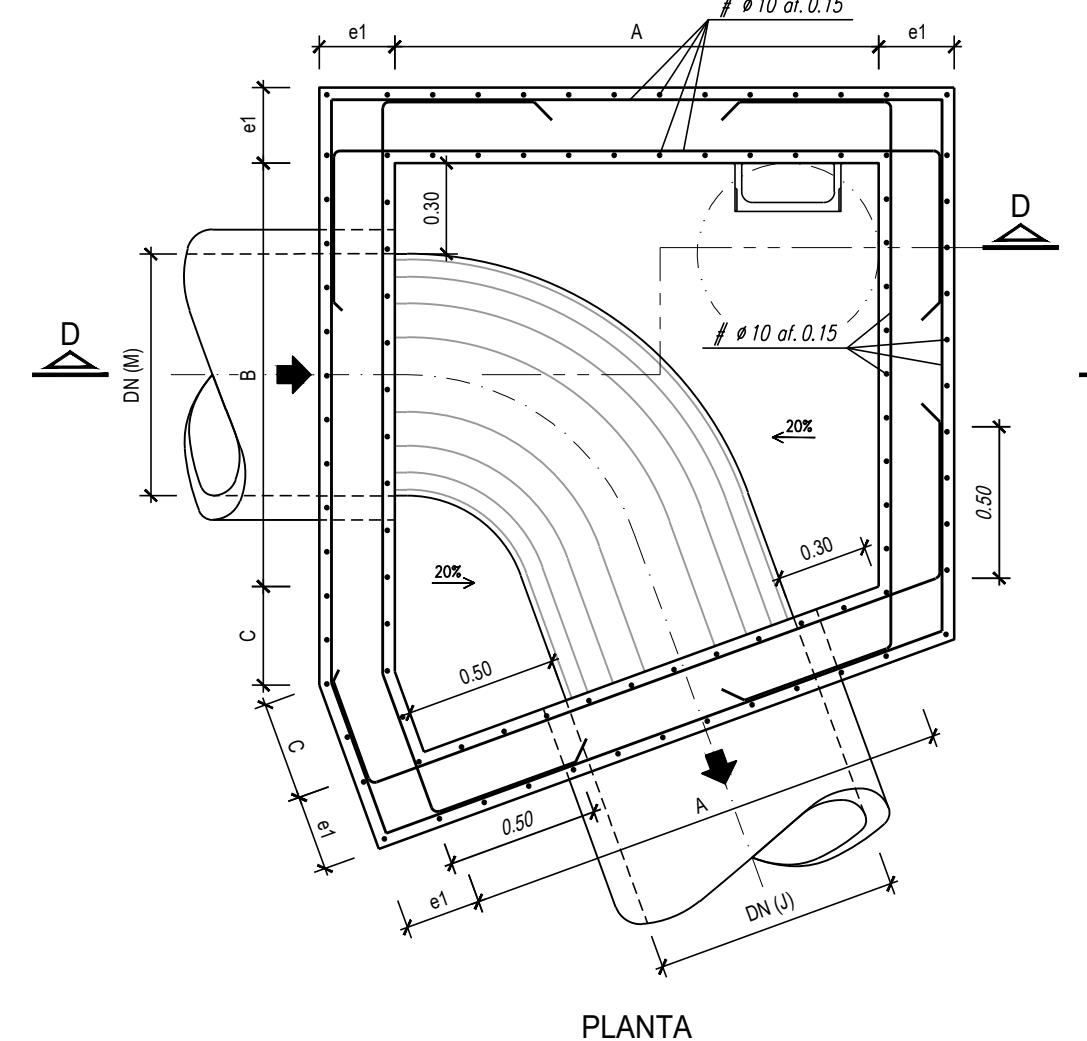
PLANTA

CAIXA DE PASSAGEM COM CURVA ENTRE 10° e 60°



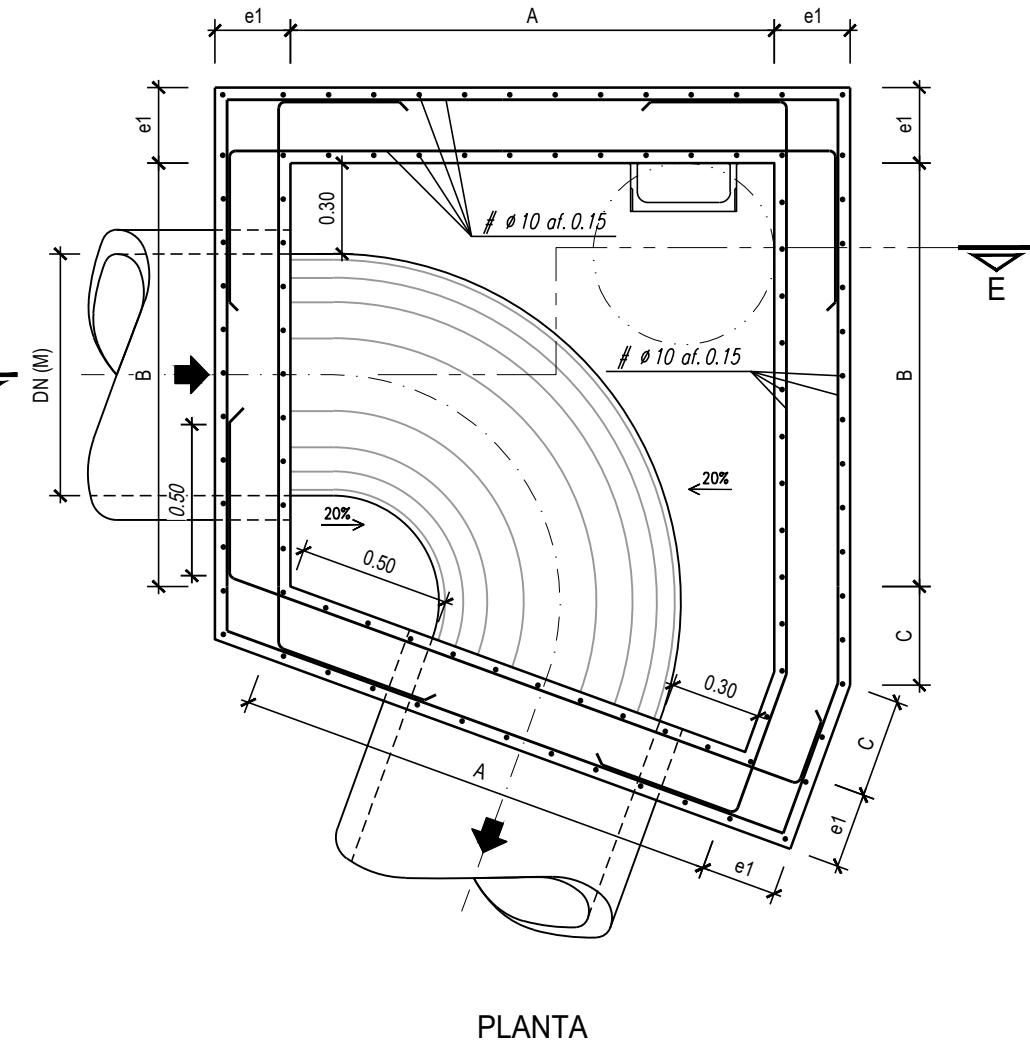
PLANTA

CAIXA DE PASSAGEM COM CURVA ENTRE 60° E 90°



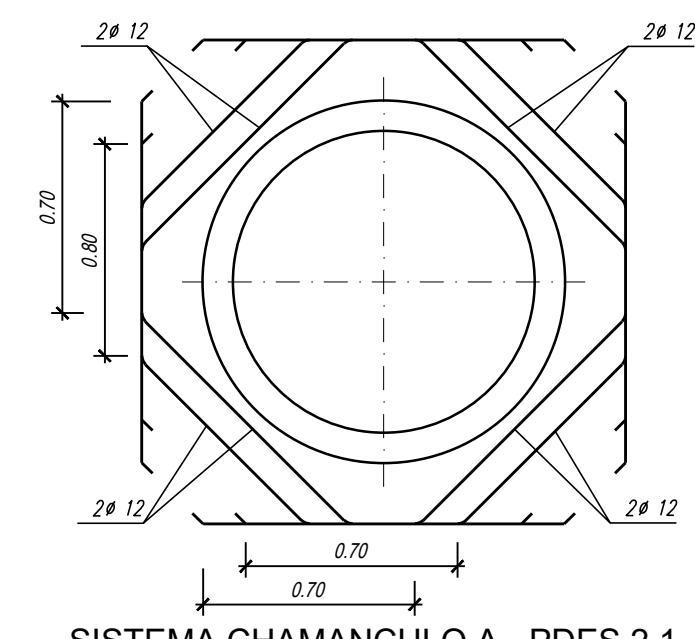
PLANTA

CAIXA DE PASSAGEM COM CURVA SUPERIOR A 90°



PLANTA

PORMENOR DO REFORÇO NAS ABERTURAS (ARMADURA EM AMBAS AS FACES)



SISTEMA CHAMANÇULO A - PDES 2.1

CAIXA	DN (m)	DN (a)	CT	CS (M)	CS (S)	A	B	C	leng	Htotal	L1	cob	h	h1	h2	e1	e2	e3	Cone	Anel H=30m	Anel H=50m	Fundação de câmara em zona com nível freático elevado / solo lodoso
4	1.400	1.200	0.98	54.91	54.91	190	1.90	0.00	→→10	0.49	1.7	II	0.00	1.13	0.35	0.25	0.25	0.25	0	3	0	
5	1.200	1.200	0.98	54.90	54.80	1.90	1.90	0.00	→→10	4.88	1.7	II	0.00	5.20	1.5	0.35	0.25	0.25	0	2	0	
6	1.200	1.200	0.98	54.95	54.65	2.00	1.90	0.10	→→10	4.09	1.3	II	0.00	1.70	0.74	0.35	0.25	0.25	0	0	0	
7	1.200	1.200	0.98	55.91	52.69	2.00	1.90	0.47	26	2.92	0.2	II	0.00	0.67	0.35	0.25	0.25	0.25	0	0	0	
8	1.200	1.200	0.98	55.91	52.69	2.00	1.90	0.47	26	2.92	0.2	II	0.00	0.67	0.35	0.25	0.25	0.25	0	0	0	
9	1.200	1.200	0.98	55.91	52.69	2.00	1.90	0.47	26	2.92	0.2	II	0.00	0.67	0.35	0.25	0.25	0.25	0	0	0	
10	1.200	1.200	0.98	55.91	52.69	2.00	1.90	0.47	26	2.92	0.2	II	0.00	0.67	0.35	0.25	0.25	0.25	0	0	0	
11	1.200	1.200	0.98	52.65	50.73	50.91	2.20	2.20	0.04	80	3.17	0.2	II	0.00	2.63	0.38	0.25	0.25	0.25	0	0	0
12	1.400	1.400	0.98	52.69	49.19	2.10	2.10	0.00	→→10	3.46	0.5	II	0.00	0.68	0.38	0.25	0.25	0.25	0	1	0	
13	1.400	1.400	0.98	63.07	49.71	49.71	2.20	2.20	0.30	74	3.99	1.0	II	0.00	0.71	0.38	0.25	0.25	0.25	0	1	1
14	1.400	1.400	0.98	52.88	49.49	49.60	2.20	2.20	0.28	76	3.85	0.7	II	0.00	0.67	0.38	0.25	0.25	0.25	0	1	1
15	1.400	1.400	0.98	52.87	49.49	49.49	2.20	2.20	0.28	76	3.85	0.7	II	0.00	0.73	0.38	0.25	0.25	0.25	0	1	1
16	1.400	1.400	0.98	52.87	49.49	49.49	2.20	2.20	0.28	76	3.85	0.7	II	0.00	0.73	0.38	0.25	0.25	0.25	0	2	2
17	1.400	1.400	0.98	52.78	49.41	49.41	2.10	2.10	0.10	→→10	4.00	1.2	II	0.00	0.52	0.38	0.25	0.25	0.25	0	1	1
18	1.400	1.400	0.98	62.56	49.30	49.30	2.20	2.20	0.32	17	3.89	1.0	II	0.00	0.61	0.38	0.25	0.25	0.25	0	1	1
19	1.400	1.400	0.98	62.23	49.16	49.16	2.10	2.10	0.00	→→10	3.70	0.7	II	0.00	0.72	0.38	0.25	0.25	0.25	0	1	1
20	1.400	1.400	0.98	62.56	49.30	49.30	2.20	2.20	0.32	17	3.89	1.0	II	0.00	0.61	0.38	0.25	0.25	0.25	0	1	1
21	1.400	1.400	0.98	60.13	47.59	47.59	2.10	2.10	0.00	→→10	3.42	0.5	II	0.00	0.54	0.38	0.25	0.25	0.25	0	1	0
22	1.400	1.400	0.98	51.21	48.98	48.98	1.60	1.60	0.41	21	4.16	1.0	II	0.00	0.98	0.38	0.25	0.25	0.25	0	1	1
23	1.400	1.400	0.98	49.45	46.91	45.51	2.00	1.40	0.41	21	4.16	1.0	II	0.00	0.89	0.38	0.25	0.25	0.25	0	1	1
24	0.800	0.800	0.800	51.21	48.98	48.98	1.60	1.60	0.38	24	2.75	0.5	II	0.00	0.69	0.27	0.25	0.25	0.25	0	1	1

SISTEMA MALANGA MACRO - PDES 2.3

CAIXA	DN (m)	DN (a)	CT	CS (M)	CS (S)	A	B	C	Ang	Htotal	L1	cob	h	h1	h2	e1	e2	e3	Cone	Anel H=30m	Anel H=50m	Fundação de câmara em zona com nível freático elevado / solo lodoso
28	0.700	0.700	36.12	32.81	32.81	1.40	1.40	0.00	→→10	3.80	1.7	II	0.00	0.65	0.24	0.25	0.25	0.25	0			