


ELEMENTOS GEOMÉTRICOS - PROJETO ESTRADA DA MARAVILHA														
Nº	DEFLEXÃO/ AZIMUTE	LC (m)	TT (m)	TL (m)	TC (m)	R (m)	D/L (m)	AC	TE-PC	ET-PT	PONTO	PI	TE-PC	ET-PT
L39	156° 00' 52.98"	-	-	-	-	-	21.116	-	0+0,000	1+1,116	N E	-	7817033,0282 614783,1274	7817013,7354 614791,7112
C40	-	-	0,255	-	-	335,415	26,175	004° 28' 16.16"	1+1,116	2+7,291	N E	7817001,7722 614797,0339	7816990,2602 614803,2730	7816990,2602 614803,2730
L40	151° 32' 36.82"	-	-	-	-	-	4,164	-	2+7,291	2+11,455	N E	-	7816990,2602 614803,2730	7816986,5990 614805,2573
C1	-	-	1,884	-	-	251,543	61,381	013° 58' 52.48"	2+11,455	5+12,836	N E	7816959,4818 614819,9541	7816986,5990 614805,2573	7816929,6171 614827,6638
L1	165° 31' 29.30"	-	-	-	-	-	53,102	-	5+12,836	8+5,939	N E	-	7816929,6171 614827,6638	7816978,2004 614840,9373
C2	-	-	0,047	-	-	194,675	8,511	002° 30' 17.74"	8+5,939	8+14,450	N E	7816874,0793 614842,0012	7816878,2004 614842,8840	7816869,9157 614842,8840
L2	168° 01' 47.05"	-	-	-	-	-	41,136	-	8+14,450	10+15,586	N E	-	7816869,9157 614842,8840	7816829,6739 614851,4158
C3	-	-	0,228	-	-	33,276	7,770	013° 22' 43.42"	10+15,586	11+3,356	N E	7816825,8560 614852,2252	7816829,6739 614853,8961	7816822,3291 614853,8961
L3	154° 39' 03.63"	-	-	-	-	-	56,019	-	11+3,356	13+19,374	N E	-	7816822,3291 614853,8961	7816771,7042 614877,8794
C4	-	-	0,751	-	-	112,437	25,920	013° 12' 30.38"	13+19,374	15+5,295	N E	7816759,9397 614883,4527	7816771,7042 614877,8794	7816747,2131 614886,1905
L41	167° 51' 34.01"	-	-	-	-	-	10,187	-	15+5,295	15+15,482	N E	-	7816747,2131 614886,1905	7816737,2535 614888,3330
C41	-	-	0,029	-	-	31,259	2,701	004° 57' 01.89"	15+15,482	15+18,183	N E	7816735,9324 614888,6172	7816737,2535 614888,3330	7816734,5917 614898,7863
L42	172° 48' 35.90"	-	-	-	-	-	15,684	-	15+18,183	16+13,868	N E	-	7816734,5917 614888,7863	7816719,0306 614890,7494
C5	-	-	2,385	-	-	102,775	43,861	024° 27' 07.25"	16+13,868	18+17,728	N E	7816719,0306 614893,5367	7816677,9772 614890,7494	7816677,9772 614905,2195
L4	148° 21' 28.65"	-	-	-	-	-	157,448	-	18+17,728	26+15,176	N E	-	7816677,9772 614905,2195	7816543,9353 614987,8183
C6	-	-	1,375	-	-	306,660	57,961	010° 49' 45.92"	26+15,176	29+13,138	N E	7816519,1891 615003,0673	7816543,9353 614987,8183	7816492,0185 615013,3953
L5	159° 11' 14.57"	-	-	-	-	-	54,524	-	29+13,138	32+7,662	N E	-	7816492,0185 615013,3953	7816441,0524 615032,7683
C7	-	-	2,336	-	-	138,464	50,513	020° 54' 07.51"	32+7,662	34+18,175	N E	7816417,1785 615041,8432	7816441,0524 615032,7683	7816398,1133 615058,8394
L33	138° 17' 07.06"	-	-	-	-	-	46,552	-	34+18,175	37+4,727	N E	-	7816398,1133 615058,8394	7816363,3637 615089,8152
C37	-	-	0,008	-	-	1434,300	9,617	000° 23' 02.97"	37+4,727	37+14,344	N E	7816359,7744 615093,0148	7816363,3637 615089,8152	7816356,2066 615096,2384
L34	137° 54' 04.09"	-	-	-	-	-	27,173	-	37+14,344	39+1,517	N E	-	7816356,2066 615096,2384	7816336,0445 615114,4556
C36	-	-	0,986	-	-	275,265	48,529	009° 41' 05.86"	39+1,517	41+8,046	N E	7816318,7411 615130,0897	7816336,0445 615114,4556	7816304,3146 615148,4120
L20	128° 12' 58.23"	-	-	-	-	-	44,200	-	41+8,046	43+12,246	N E	-	7816304,3146 615148,4120	7816276,9712 615183,1390
C8	-	-	7,214	-	-	78,003	64,652	047° 29' 19.31"	43+12,246	46+16,898	N E	7816255,7441 615210,0982	7816276,9712 615183,1390	7816261,2730 615243,9630
L6	080° 43' 38.92"	-	-	-	-	-	59,932	-	46+16,898	49+16,830	N E	-	7816261,2730 615243,9630	7816270,9299 615303,1119
C9	-	-	9,656	-	-	78,063	72,901	054° 54' 49.65"	49+16,830	53+9,731	N E	7816277,2983 615342,1188	7816270,9299 615303,1119	7816249,0400 615369,7516
L7	135° 38' 28.58"	-	-	-	-	-	90,931	-	53+9,731	58+0,662	N E	-	7816249,0400 615369,7516	7816184,0268 615433,3256
C10	-	-	16,054	-	-	136,748	126,495	053° 00' 00.29"	58+0,662	64+7,157	N E	7816135,2797 615480,9935	7816184,0268 615433,3256	7816144,0124 615548,6119
L8	082° 38' 28.28"	-	-	-	-	-	31,518	-	64+7,157	65+18,675	N E	-	7816144,0124 615548,6119	7816148,0493 615579,8705
C11	-	-	2,047	-	-	57,784	30,321	030° 03' 51.53"	65+18,675	67+8,995	N E	7816150,0369 615595,2606	7816144,0493 615579,8705	7816144,0470 615609,5760
L9	112° 42' 19.81"	-	-	-	-	-	32,465	-	67+8,995	69+1,461	N E	-	7816144,0470 615609,5760	7816131,5156 615639,5253
C12	-	-	2,112	-	-	174,045	53,955	017° 45' 43.95"	69+1,461	71+15,416	N E	7816121,0181 615664,6135	7816131,5156 615639,5253	7816103,3675 615685,3033
L21	130° 28' 03.76"	-	-	-	-	-	15,462	-	71+15,416	72+10,878	N E	-	7816103,3675 615685,3033	7816093,3326 615697,0660
L22	135° 03' 15.62"	-	-	-	-	-	45,063	-	72+10,878	74+15,941	N E	-	7816093,3326 615697,0660	7816061,4378 615728,9004
C13	-	-	2,522	-	-	150,731	54,768	020° 49' 05.96"	74+15,941	77+10,709	N E	7816041,8401 615748,4610	7816061,4378 615728,9004	7816016,5699 615759,7794
L35	155° 52' 21.58"	-	-	-	-	-	7,588	-	77+10,709	77+18,297	N E	-	7816016,5699 615759,7794	7816009,6447 615762,8812
C38	-	-	2,220	-	-	337,681	77,232	013° 06' 15.26"	77+18,297	81+15,528	N E	7815974,2479 615778,7352	7816009,6447 615762,8812	7815936,1784 615786,1511
L36	168° 58' 36.84"	-	-	-	-	-	16,803	-	81+15,528	82+12,331	N E	-	7815936,1784 615786,1511	7815919,6858 615789,3638
C14	-	-	2,596	-	-	265,189	73,916	015° 58' 12.04"	82+12,331	86+6,247	N E	7815883,1729 615796,4765	7815919,6858 615789,3638	7815846,1124 615793,2687
L23	184° 56' 48.88"	-	-	-	-	-	62,678	-	86+6,247	89+8,925	N E	-	7815846,1124 615793,2687	7815783,6683 615787,8638
C15	-	-	5,891	-	-	77,127	58,461	043° 25' 44.69"	89+8,925	92+7,386	N E	7815753,0673 615785,2152	7815783,6683 615787,8638	7815729,0233 615804,3284
L38	141° 31' 04.19"	-	-	-	-	-	17,653	-	92+7,386	93+5,039	N E	-	7815729,0233 615804,3284	7815715,2044 615815,3135
C39	-	-	5,001	-	-	144,192	74,879	029° 45' 13.14"	93+5,039	96+19,918	N E	7815685,2199 615839,1490	7815715,2044 615815,3135	7815671,0172 615874,7227
L37	111° 45' 51.05"	-	-	-	-	-	30,384	-	96+19,918	98+10,302	N E	-	7815671,0172 615874,7227	7815659,7511 615902,9410
C17	-	-	0,442	-	-	1077,320	61,739	003° 17' 00.69"	98+10,302	101+12,041	N E	7815648,3019 615931,6181	7815659,7511 615902,9410	7815635,2290 615959,5923
L24	115° 02' 51.74"	-	-	-	-	-	56,055	-	101+12,041	104+8,096	N E	-	7815635,2290 615959,5923	7815611,4969 616010,3755
C16	-	-	1,216	-	-	99,021	30,882	017° 52' 08.73"	104+8,096	105+18,978	N E	7815604,9060 616024,4789	7815611,4969 616010,3755	7815594,3056 616035,8796
L10	132° 55' 00.47"	-	-	-	-	-	86,638	-	105+18,978	110+5,617	N E	-	7815594,3056 616035,8796	7815535,3104 616099,3287

ESCALA = 1/1000

CONTRATADA		HIDROPROJETOS - ENGENHARIA	
PROJETISTA		<div> JOÃO CARLOS BISCOLI LOQUE ENGR.º T. - CREA 17.571/D</div>	
QUADRO DE REVISÕES			
REVISÃO 1:	REVISÃO 2:	REVISÃO 3:	
APPROVADO	APPROVADO	APPROVADO	

SECRETARIA DE OBRAS PÚBLICAS  
DEPARTAMENTO DE ENGENHARIA E ARQUITETURA

SECRETÁRIO DE OBRAS	BRUNO MÁRCIO MOREIRA ALMEIDA
SUPERINTENDENTE DE OBRAS	JOSÉ CARLOS MONTEIRO MATA DA SILVA - CREA/MG 56.180 D

PREFEITURA MUNICIPAL DE SANTA LUZIA  
ADM. DELEGADO CHRISTIANO XAVIER

ESTRADA DA MARAVILHA  
PROJETO GEOMÉTRICO  
ELEMENTOS GEOMÉTRICOS

ESCALA:	1/1000
DATA:	22/08/2019
FOLHA:	01/01