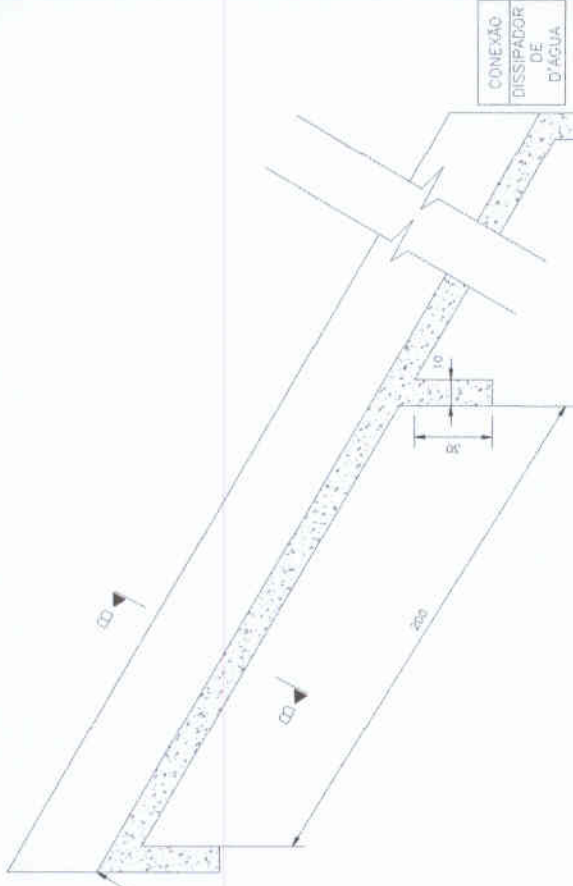
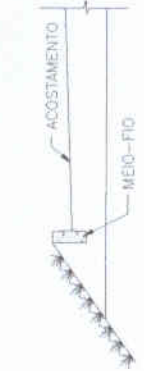


EDA 02 (PONTO BAIXO) ENTRADAS PARA DESCIDAS D'ÁGUA -- EI
 DAR 02 -- CANAL RETANGULAR EM CONCRETO SIMPLES
 CORTE B-B'

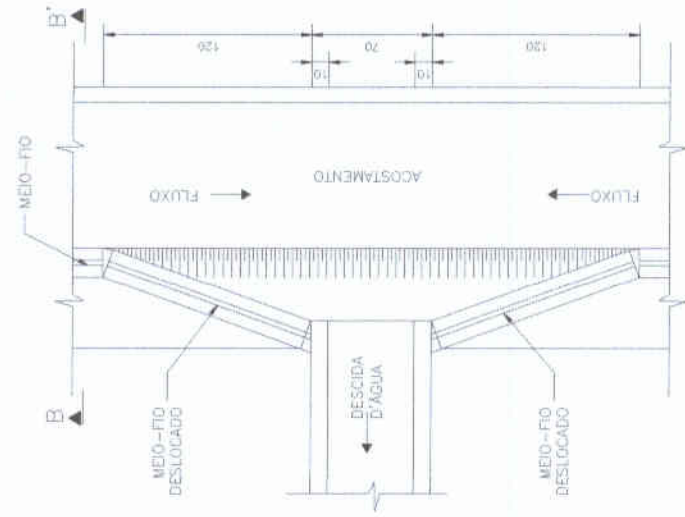
CONEXÃO
ENTRADA
D'ÁGUA



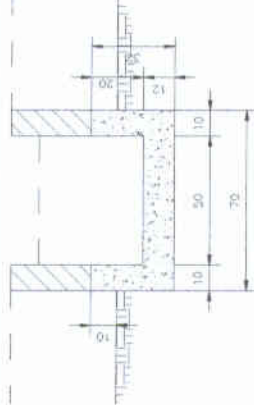
CONEXÃO
DISSIPADOR
DE
D'ÁGUA



PLANTA



CORTE TRANSVERSAL B-B'



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 Engenharia Civil
 Diogo Fernando Lima
 CRP 58378



CONSUMOS MÉDIOS

MATERIAIS	DAR 01	DAR 02
CONCRETO fck = 15 MPa (m ³ /m)	0.175	0.137
FORMAS (m ² /m)	0.76	1.10
MEIO-FIO 7x40cm (m/m)	1.00	-
ESCAVAÇÃO (m ³ /m)	0.36	0.20
APLOMENTO (m ³ /m)	0.17	0.15

CONSUMOS MÉDIOS

MATERIAIS	UNID.	EDA01	EDA02
CONCRETO fck = 15 MPa	m ³	0.110	0.140
FORMAS	m ²	0.100	0.100

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Nota de Serviço Tabela

ALINHAMENTO - 02 ALINHAMENTO - 02 0+0.000 395+15,00

Lado Esquerda				Eixo				Lado Direito					
Afast. (m)	Cota (m)	Incl. (%)	Estaca	Pontos Notáveis da Geometria Horizontal		Pontos Notáveis da Geometria Vertical		Cota Projeto	Cota Terreno	Cota Vermelha	Afast. (m)	Cota (m)	Incl. (%)
				Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical						
-4.210	16.863	66.66	0+0.000			PCV		16.803	16.642	0.161	4.071	16.771	66.66
-4.702	16.940	-66.66	1+0.000			PCV		17.488	17.420	0.068	4.541	17.769	66.66
-4.204	16.773	66.66	2+0.000			PCV		16.717	16.554	0.163	4.137	16.728	66.66
-4.068	16.426	66.66	3+0.000			PCV		16.461	16.306	0.155	4.584	16.770	66.66
-4.066	16.211	-66.66	4+0.000			PTV		16.335	16.166	0.169	4.703	16.724	66.66
-4.440	15.882	-66.66	5+0.000			PCV		16.255	16.104	0.151	4.663	16.617	66.66
-4.030	16.149	66.66	6+0.000			PTV		16.210	16.034	0.176	4.336	16.354	66.66
-4.022	16.195	66.66	7+0.000			PCV		16.261	15.956	0.305	4.504	15.845	-66.66
-4.136	16.340	-66.66	8+0.000			PCV		16.511	16.121	0.390	4.055	16.468	66.66
-4.016	16.485	66.66	9+0.000			PCV		16.554	16.333	0.222	4.121	16.394	-66.66
-4.068	16.461	-66.66	10+0.000			PCV		16.586	16.396	0.190	4.081	16.453	-66.66
-4.197	16.392	-66.66	11+0.000			PCV		16.604	16.436	0.167	4.115	16.447	-66.66
-4.140	16.434	-66.66	12+0.000			PCV		16.607	16.432	0.175	4.168	16.415	-66.66
-4.258	16.256	-66.66	13+0.000					16.507	16.402	0.106	4.114	16.503	66.66
-4.465	15.942	-66.66	14+0.000					16.333	16.166	0.167	4.666	16.697	66.66
-4.351	15.869	-66.66	15+0.000			PCV		16.183	16.022	0.161	4.022	16.117	66.66
-4.365	15.734	-66.66	16+0.000			PTV		16.058	15.839	0.219	4.107	15.906	-66.66
-4.325	15.637	-66.66	17+0.000			PCV		15.933	15.705	0.228	4.075	15.803	-66.66
-4.275	15.537	-66.66	18+0.000			PCV		15.800	15.560	0.240	4.159	15.614	-66.66
-4.258	15.419	-66.66	19+0.000					15.671	15.395	0.277	4.345	15.362	-66.66
-4.260	15.301	-66.66	20+0.000					15.554	15.275	0.279	4.338	15.249	-66.66
-4.402	15.101	-66.66	21+0.000			PTV		15.449	15.100	0.349	4.362	15.128	-66.66
-4.398	15.010	-66.66	22+0.000			PCV		15.355	15.010	0.345	4.339	15.049	-66.66
-4.420	14.946	-66.66	23+0.000			PCV		15.306	14.995	0.311	4.348	14.994	-66.66
-4.494	14.884	-66.66	24+0.000					15.293	14.969	0.325	4.233	15.058	-66.66
-4.463	14.900	-66.66	25+0.000					15.289	14.941	0.348	4.244	15.046	-66.66
-4.554	14.849	-66.66	26+0.000					15.298	14.943	0.355	4.246	15.054	-66.66
-4.595	14.846	-66.66	27+0.000					15.322	14.934	0.388	4.184	15.119	-66.66
-4.517	14.936	-66.66	28+0.000					15.361	15.006	0.355	4.105	15.211	-66.66
-4.463	15.025	-66.66	29+0.000					15.414	15.116	0.297	4.057	15.296	-66.66
-4.443	15.106	-66.66	30+0.000			PTV		15.481	15.203	0.278	4.140	15.494	66.66
-4.400	15.153	-66.66	31+0.000					15.500	15.312	0.188	4.157	15.525	66.66
-4.334	15.197	-66.66	32+0.000			PCV		15.500	15.221	0.279	4.157	15.315	-66.66
-4.386	15.174	-66.66	33+0.000					15.511	15.257	0.254	4.131	15.344	-66.66

DIAGO FARIAS LIMA
ENGENHEIRO CIVIL
CREA 56373



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-4.426	15.206	-66.66	34+0.000							15.570	15.296	0.275	4.141	15.396	-66.66
-4.545	15.237	-66.66	35+0.000							15.680	15.371	0.309	4.141	15.506	-66.66
-4.474	15.379	-66.66	36+0.000							15.775	15.537	0.238	4.024	15.679	-66.66
-4.515	15.273	-66.66	37+0.000							15.697	15.424	0.273	4.008	15.622	66.66
-4.374	15.304	-66.66	38+0.000							15.633	15.412	0.222	4.024	15.569	66.66
-4.379	15.276	-66.66	39+0.000							15.609	15.377	0.232	4.065	15.485	-66.66
-4.462	15.236	-66.66	40+0.000							15.624	15.334	0.290	4.138	15.452	-66.66
-4.540	15.239	-66.66	41+0.000							15.678	15.466	0.213	4.000	15.598	-2.00
-4.568	15.307	-66.66	42+0.000							15.765	15.537	0.228	4.146	15.783	66.66
-4.406	15.353	-66.66	43+0.000							15.703	15.539	0.165	4.111	15.697	66.66
-4.282	15.500	-66.66	44+0.000							15.768	15.388	0.180	4.030	15.668	-66.66
-4.275	15.673	-66.66	45+0.000							15.937	15.728	0.208	4.000	15.857	-2.00
-4.311	15.825	-66.66	46+0.000							16.113	15.882	0.230	4.064	15.990	-66.66
-4.377	15.957	-66.66	47+0.000							16.288	16.023	0.265	4.058	16.169	-66.66
-4.403	16.112	-66.66	48+0.000							16.461	16.195	0.266	4.077	16.330	-66.66
-4.326	16.304	-66.66	49+0.000							16.602	16.373	0.228	4.014	16.512	-66.66
-4.328	16.406	-66.66	50+0.000							16.704	16.461	0.244	4.016	16.614	-66.66
-4.241	16.511	-66.66	51+0.000							16.752	16.506	0.246	4.054	16.635	-66.66
-4.272	16.512	-66.66	52+0.000							16.773	16.592	0.181	4.000	16.693	-2.00
-4.294	16.521	-66.66	53+0.000							16.797	16.554	0.244	4.166	16.606	-66.66
-4.311	16.537	-66.66	54+0.000							16.824	16.536	0.288	4.123	16.662	-66.66
-4.280	16.596	-66.66	55+0.000							16.863	16.619	0.244	4.083	16.727	-66.66
-4.322	16.790	-66.66	56+0.000							17.085	16.830	0.255	4.133	16.916	-66.66
-4.199	17.083	-66.66	57+0.000							17.296	17.103	0.193	4.145	17.120	-66.66
-4.127	17.322	-66.66	58+0.000							17.486	17.325	0.161	4.028	17.388	-66.66
-4.224	17.426	-66.66	59+0.000							17.656	17.436	0.220	4.140	17.482	-66.66
-4.210	17.584	-66.66	60+0.000							17.804	17.634	0.170	4.033	17.702	-66.66
-4.280	17.583	-66.66	61+0.000							17.850	17.609	0.240	4.174	17.654	-66.66
-4.247	17.627	-66.66	62+0.000							17.872	17.609	0.263	4.043	17.763	-66.66
-4.412	17.548	-66.66	63+0.000							17.903	17.570	0.333	4.229	17.975	66.66
-4.622	17.448	-66.66	64+0.000							17.943	17.648	0.295	4.051	17.897	66.66
-4.200	17.778	-66.66	65+0.000							17.991	17.808	0.183	4.100	17.845	-66.66
-4.247	17.696	-66.66	66+0.000							17.941	17.713	0.228	4.034	17.883	66.66
-4.175	17.647	-66.66	67+0.000							17.844	17.745	0.099	4.144	17.860	66.66
-4.048	17.607	-66.66	68+0.000							17.719	17.607	0.112	4.014	17.648	66.66
-4.275	17.301	-66.66	69+0.000							17.565	17.375	0.190	4.030	17.505	66.66
-4.821	16.755	-66.66	70+0.000							17.382	17.091	0.291	4.118	17.223	-66.66
-5.634	16.001	-66.66	71+0.000							17.170	16.563	0.607	4.020	17.077	-66.66
-4.777	16.327	-66.66	72+0.000							16.924	16.720	0.205	4.289	17.037	66.66
-4.450	16.265	-66.66	73+0.000							16.645	16.429	0.215	4.005	16.561	-66.66
-4.337	16.075	-66.66	74+0.000							16.380	16.146	0.234	4.136	16.209	-66.66
-4.938	15.431	-66.66	75+0.000							16.137	15.652	0.484	4.298	15.858	-66.66
-4.757	15.331	-66.66	76+0.000							15.916	15.457	0.459	4.412	15.561	-66.66
-4.669	15.192	-66.66	77+0.000							15.718	15.326	0.392	4.302	15.437	-66.66

-4.502	15.127	-66.66	78+0.000		PCV	15.542	15.320	0.222	4.128	15.376	-66.66
-4.230	15.171	-66.66	79+0.000			15.404	15.197	0.207	4.042	15.296	-66.66
-4.402	14.866	-66.66	80+0.000			15.214	14.909	0.305	4.075	15.084	-66.66
-4.000	14.865	-2.00	81+0.000		PCV	14.945	14.515	0.430	4.238	14.707	-66.66
-4.822	13.970	-66.66	82+0.000			14.598	14.080	0.517	4.332	14.296	-66.66
-4.899	13.570	-66.66	83+0.000			14.248	13.703	0.545	4.444	13.873	-66.66
-5.292	13.010	-66.66	84+0.000			13.951	13.494	0.517	4.478	13.553	-66.66
-5.448	12.661	-66.66	85+0.000			13.707	13.157	0.549	4.490	13.300	-66.66
-4.000	13.434	-2.00	86+0.000		PCV	13.514	13.000	0.514	4.576	13.050	-66.66
-4.899	12.700	-66.66	87+0.000			13.379	13.114	0.265	4.182	13.421	66.66
-4.734	12.795	-66.66	88+0.000		PCV	13.364	13.193	0.172	4.403	13.553	66.66
-5.072	12.662	-66.66	89+0.000			13.456	13.134	0.323	4.044	13.347	-66.66
-5.562	12.396	-66.66	90+0.000			13.517	13.324	0.193	4.388	13.695	66.66
-5.101	12.713	-66.66	91+0.000			13.527	13.351	0.175	4.069	13.493	66.66
-5.040	12.712	-66.66	92+0.000		PCV	13.485	13.243	0.241	4.279	13.219	-66.66
-4.305	13.109	-66.66	93+0.000			13.392	13.208	0.184	4.263	13.137	-66.66
-4.008	13.256	-66.66	94+0.000		PTV	13.342	13.157	0.185	4.271	13.081	-66.66
-4.073	13.277	-66.66	95+0.000			13.406	13.203	0.202	4.254	13.157	-66.66
-4.068	13.361	-66.66	96+0.000			13.486	13.329	0.157	4.180	13.286	-66.66
-4.083	13.431	-66.66	97+0.000		PCV	13.567	13.403	0.163	4.191	13.359	-66.66
-4.839	12.901	-66.66	98+0.000		PCV	13.540	13.530	0.010	4.192	13.332	-66.66
-4.839	11.964	-66.66	99+0.000		PTV	12.603	12.524	0.079	4.192	12.395	-66.66
-4.839	12.002	-66.66	100+0.000			12.642	12.641	0.001	4.192	12.434	-66.66
-4.839	12.120	-66.66	101+0.000		PCV	12.759	12.758	0.001	4.192	12.551	-66.66
-4.839	14.460	-66.66	102+0.000		PCV	15.099	15.197	-0.098	4.192	14.891	-66.66
-4.230	16.738	-66.66	103+0.000			16.971	16.206	0.765	4.259	16.719	-66.66
-4.147	17.517	66.66	104+0.000			17.499	17.405	0.094	4.045	17.389	-66.66
-4.211	17.654	-66.66	105+0.000		PCV	17.875	17.637	0.239	4.204	17.659	-66.66
-4.118	18.077	66.66	106+0.000		PCV	18.079	17.925	0.153	4.217	17.854	-66.66
-4.049	17.933	-66.66	107+0.000			18.046	17.963	0.083	4.051	17.932	-66.66
-4.395	17.452	-66.66	108+0.000		PCV	17.796	17.505	0.291	4.307	17.511	-66.66
-4.475	16.942	-66.66	109+0.000		PCV	17.338	16.939	0.399	4.213	17.116	-66.66
-4.279	16.478	-66.66	110+0.000			16.745	16.369	0.375	4.201	16.531	-66.66
-4.287	15.945	-66.66	111+0.000			16.216	15.826	0.391	4.427	15.852	-66.66
-4.363	15.445	-66.66	112+0.000			15.767	15.314	0.453	4.618	15.275	-66.66
-4.586	14.928	-66.66	113+0.000			15.398	14.895	0.503	4.682	14.864	-66.66
-4.528	14.677	-66.66	114+0.000		PCV	15.109	14.671	0.438	4.569	14.650	-66.66
-4.485	14.493	-66.66	115+0.000			14.897	14.549	0.347	4.322	14.602	-66.66
-4.559	14.299	-66.66	116+0.000			14.752	14.418	0.334	4.370	14.425	-66.66
-4.594	14.200	-66.66	117+0.000		PCV	14.676	14.377	0.299	4.462	14.288	-66.66
-4.750	14.087	-66.66	118+0.000			14.667	14.339	0.328	4.691	14.126	-66.66
-4.985	13.847	-66.66	119+0.000		PCV	14.583	14.293	0.290	5.250	13.670	-66.66
-4.769	13.760	-66.66	120+0.000			14.353	14.005	0.348	5.164	13.497	-66.66
-4.505	13.693	-66.66	121+0.000			14.109	13.680	0.429	4.838	13.471	-66.66



-4.528	13.460	-66.66	122+0.000		13.893	13.425	0.468	4.733	13.324	-66.66
-4.450	13.323	-66.66	123+0.000		13.703	13.180	0.523	4.819	13.076	-66.66
-4.409	13.187	-66.66	124+0.000		13.540	13.055	0.485	4.672	13.012	-66.66
-4.328	13.105	-66.66	125+0.000		13.404	13.024	0.380	4.627	12.906	-66.66
-4.409	12.942	-66.66	126+0.000	PCV	13.295	12.880	0.415	4.713	12.740	-66.66
-4.840	12.572	-66.66	127+0.000		13.212	12.830	0.382	4.871	12.552	-66.66
-4.910	12.485	-66.66	128+0.000		13.171	12.737	0.434	4.755	12.588	-66.66
-4.758	12.600	-66.66	129+0.000		13.185	12.763	0.422	4.761	12.597	-66.66
-4.511	12.833	-66.66	130+0.000		13.254	12.770	0.484	5.057	12.469	-66.66
-4.343	13.068	-66.66	131+0.000		13.377	12.973	0.404	4.630	12.877	-66.66
-4.245	13.312	-66.66	132+0.000	PCV	13.555	13.166	0.389	4.658	13.096	-66.66
-4.073	13.657	-66.66	133+0.000	PCV	13.786	13.478	0.308	4.590	13.313	-66.66
-4.187	13.836	-66.66	134+0.000		14.040	13.707	0.333	4.509	13.621	-66.66
-4.121	14.107	-66.66	135+0.000		14.268	13.988	0.280	4.568	13.809	-66.66
-4.196	14.254	-66.66	136+0.000		14.464	14.058	0.406	4.092	14.323	-66.66
-4.545	14.187	-66.66	137+0.000		14.630	14.158	0.472	4.570	14.170	-66.66
-4.412	14.343	-66.66	138+0.000	PCV	14.765	14.453	0.312	4.237	14.526	-66.66
-4.430	14.529	-66.66	139+0.000		14.895	14.616	0.279	4.083	14.760	-66.66
-4.404	14.712	-66.66	140+0.000		15.061	14.790	0.271	4.120	14.901	-66.66
-4.437	14.891	-66.66	141+0.000	PCV	15.263	14.810	0.453	4.523	14.834	-66.66
-4.458	15.113	-66.66	142+0.000	PCV	15.489	15.162	0.337	4.349	15.186	-66.66
-4.478	15.333	-66.66	143+0.000		15.731	15.424	0.307	4.460	15.345	-66.66
-4.377	15.663	-66.66	144+0.000		15.995	15.600	0.395	4.397	15.650	-66.66
-4.718	15.732	-66.66	145+0.000		16.290	15.826	0.465	4.687	15.752	-66.66
-4.806	16.002	-66.66	146+0.000	PCV	16.619	16.084	0.534	4.531	16.185	-66.66
-4.828	16.322	-66.66	147+0.000		16.954	16.382	0.572	4.433	16.585	-66.66
-4.666	16.690	-66.66	148+0.000		17.214	16.672	0.543	4.456	16.831	-66.66
-4.489	16.987	-66.66	149+0.000		17.393	16.979	0.414	4.400	17.046	-66.66
-4.387	17.152	-66.66	150+0.000	PCV	17.490	17.159	0.330	4.343	17.181	-66.66
-4.124	17.363	-66.66	151+0.000	PCV	17.525	17.375	0.150	4.044	17.416	-66.66
-4.181	17.489	-66.66	152+0.000		17.689	17.548	0.141	4.072	17.561	-66.66
-4.274	17.615	-66.66	153+0.000		17.877	17.622	0.255	4.208	17.659	-66.66
-4.223	17.847	-66.66	154+0.000		18.076	17.860	0.216	4.188	17.870	-66.66
-4.200	18.071	-66.66	155+0.000		18.285	18.084	0.200	4.224	18.055	-66.66
-4.208	18.286	-66.66	156+0.000		18.504	18.291	0.214	4.147	18.326	-66.66
-4.082	18.599	-66.66	157+0.000	PTV	18.734	18.595	0.139	4.126	18.570	-66.66
-4.086	18.797	-66.66	158+0.000	PCV	18.901	18.794	0.107	4.048	18.789	-66.66
-4.046	18.733	-66.66	159+0.000	PTV	18.843	18.726	0.117	4.052	18.729	-66.66
-4.031	18.670	-66.66	160+0.000	PCV	18.771	18.629	0.142	4.146	18.594	-66.66
-4.063	18.591	-66.66	161+0.000		18.713	18.523	0.190	4.270	18.453	-66.66
-4.048	18.589	-66.66	162+0.000	PTV	18.700	18.552	0.169	4.229	18.468	-66.66
-4.052	18.612	-66.66	163+0.000		18.727	18.543	0.184	4.265	18.470	-66.66
-4.204	18.815	-66.66	164+0.000	PCV	18.759	18.553	0.206	4.228	18.527	-66.66
-4.147	18.613	-66.66	165+0.000		18.791	18.517	0.274	4.297	18.513	-66.66

-4.008	18.743	66.66	166+0.000			18.818	18.591	0.226	4.416	18.460	-66.66
-4.318	18.544	-66.66	167+0.000		PCV	18.836	18.544	0.292	4.429	18.470	-66.66
-4.346	18.425	-66.66	168+0.000			18.735	18.357	0.378	4.511	18.314	-66.66
-4.224	18.170	-66.66	169+0.000		PTV	18.399	18.084	0.315	4.451	18.019	-66.66
-4.242	17.634	-66.66	170+0.000			17.875	17.645	0.230	4.165	17.685	-66.66
-4.140	17.201	-66.66	171+0.000		PCV	17.375	17.221	0.154	4.022	17.280	-66.66
-4.097	16.815	66.66	172+0.000			16.830	16.739	0.091	4.164	16.860	66.66
-4.033	16.121	66.66	173+0.000			16.179	16.136	0.043	4.227	16.250	66.66
-4.317	15.128	-66.66	174+0.000		PCV	15.419	15.182	0.237	4.038	15.314	-66.66
-4.318	14.074	-66.66	175+0.000			14.366	14.011	0.356	4.378	14.035	-66.66
-4.421	12.784	-66.66	176+0.000			13.145	12.796	0.349	4.330	12.845	-66.66
-4.540	11.549	-66.66	177+0.000			11.989	11.531	0.458	4.608	11.503	-66.66
-4.771	10.304	-66.66	178+0.000			10.898	10.204	0.694	4.918	10.206	-66.66
-4.612	9.385	-66.66	179+0.000		PCV	9.873	9.173	0.700	5.211	8.986	-66.66
-4.730	8.348	-66.66	180+0.000			8.914	8.179	0.735	5.198	8.036	-66.66
-4.693	7.584	-66.66	181+0.000			8.126	7.410	0.716	5.078	7.327	-66.66
-4.716	7.025	-66.66	182+0.000			7.582	6.717	0.865	5.388	6.577	-66.66
-5.008	6.529	-66.66	183+0.000		PCV	7.281	6.405	0.876	5.215	6.391	-66.66
-4.840	6.538	-66.66	184+0.000		PTV	7.179	6.252	0.927	5.392	6.170	-66.66
-4.983	6.476	-66.66	185+0.000		PCV	7.211	6.216	0.995	5.388	6.206	-66.66
-5.117	6.473	-66.66	186+0.000			7.297	6.146	1.151	5.958	5.912	-66.66
-4.982	6.667	-66.66	187+0.000			7.401	6.462	0.940	5.941	6.028	-66.66
-5.110	6.704	-66.66	188+0.000			7.523	6.378	1.145	6.078	6.058	-66.66
-5.086	6.859	-66.66	189+0.000		PTV	7.663	6.570	1.094	6.226	6.089	-66.66
-5.469	6.759	-66.66	190+0.000			7.818	6.477	1.341	6.467	6.094	-66.66
-5.988	6.571	-66.66	191+0.000			7.976	6.212	1.764	6.894	5.967	-66.66
-6.398	6.455	-66.66	192+0.000			8.133	6.059	2.075	7.231	5.900	-66.66
-7.011	6.204	-66.66	193+0.000			8.291	5.719	2.572	7.708	5.740	-66.66
-6.819	6.489	-66.66	194+0.000			8.449	5.753	2.696	7.960	5.729	-66.66
-5.898	7.261	-66.66	195+0.000			8.606	6.833	1.773	6.935	6.570	-66.66
-4.681	8.230	-66.66	196+0.000		PCV	8.764	7.433	1.331	5.624	7.601	-66.66
-4.377	8.586	-66.66	197+0.000			8.917	8.326	0.591	4.906	8.233	-66.66
-4.087	8.923	-66.66	198+0.000		PCV	9.061	8.784	0.277	4.614	8.572	-66.66
-4.095	9.039	-66.66	199+0.000		PTV	9.183	8.879	0.304	4.691	8.642	-66.66
-4.122	8.485	-66.66	200+0.000		PCV	8.646	8.079	0.567	4.874	7.983	-66.66
-4.310	7.836	-66.66	201+0.000			8.123	7.378	0.745	5.018	7.365	-66.66
-5.544	6.359	-66.66	203+0.000			7.469	6.356	1.113	5.512	6.381	-66.66
-4.538	6.909	-66.66	204+0.000			7.348	6.232	1.115	5.492	6.273	-66.66
-5.153	6.515	-66.66	205+0.000		PTV	7.364	6.426	0.938	5.929	5.998	-66.66
-4.771	6.950	-66.66	206+0.000			7.544	6.776	0.768	5.357	6.533	-66.66
-4.453	7.481	-66.66	207+0.000		PCV	7.863	7.237	0.626	5.106	7.045	-66.66
-4.195	7.964	-66.66	208+0.000			8.174	7.737	0.437	4.786	7.570	-66.66
-4.016	8.377	-66.66	209+0.000			8.467	8.135	0.332	4.645	7.958	-66.66
-4.034	8.640	-66.66	210+0.000		PCV	8.743	8.419	0.324	4.647	8.231	-66.66

-4.037	8.893	-66.66	211+0.000	PCV	8.997	8.692	0.305	4.536	8.560	-66.66
-4.237	8.882	-66.66	212+0.000		9.120	8.687	0.433	4.633	8.618	-66.66
-4.117	9.077	-66.66	213+0.000		9.235	8.838	0.377	4.684	8.699	-66.66
-4.252	9.096	-66.66	214+0.000		9.343	8.874	0.469	5.180	8.477	-66.66
-4.278	9.180	-66.66	215+0.000		9.446	9.111	0.335	5.114	8.623	-66.66
-4.107	9.391	-66.66	216+0.000	PCV	9.543	9.120	0.422	4.872	8.881	-66.66
-4.168	9.451	-66.66	217+0.000		9.643	9.222	0.420	4.785	9.039	-66.66
-4.385	9.490	-66.66	218+0.000		9.827	9.385	0.442	4.790	9.220	-66.66
-4.432	9.746	-66.66	219+0.000		10.114	9.645	0.469	5.024	9.352	-66.66
-4.296	10.228	-66.66	220+0.000	PCV	10.506	10.109	0.396	4.688	9.967	-66.66
-4.201	10.796	-66.66	221+0.000	PTV	11.009	10.647	0.362	4.285	11.120	66.66
-4.146	11.712	-66.66	222+0.000		11.889	11.351	0.538	4.144	11.713	-66.66
-4.140	12.605	-66.66	223+0.000		12.778	12.148	0.630	4.222	12.550	-66.66
-4.339	13.361	-66.66	224+0.000	PCV	13.667	13.233	0.433	4.583	13.198	-66.66
-4.519	14.137	-66.66	225+0.000		14.563	13.973	0.589	4.554	14.114	-66.66
-4.160	15.487	-66.66	226+0.000	PCV	15.674	15.435	0.239	4.586	15.203	-66.66
-4.496	15.695	-66.66	227+0.000		16.106	15.486	0.619	4.709	15.553	-66.66
-4.203	15.989	-66.66	228+0.000		16.204	15.964	0.241	4.230	15.971	-66.66
-4.150	16.075	-66.66	229+0.000	PCV	16.255	16.061	0.194	4.171	16.061	-66.66
-4.241	16.017	-66.66	230+0.000		16.258	15.989	0.269	4.310	15.971	-66.66
-4.272	15.953	-66.66	231+0.000		16.214	15.849	0.365	4.444	15.838	-66.66
-4.309	15.836	-66.66	232+0.000	PCV	16.121	15.731	0.390	4.403	15.773	-66.66
-4.522	15.559	-66.66	233+0.000		15.987	15.523	0.464	4.464	15.598	-66.66
-4.242	15.584	-66.66	234+0.000		15.825	15.540	0.285	4.381	15.492	-66.66
-4.360	15.317	-66.66	235+0.000		15.637	15.267	0.371	4.121	15.477	-66.66
-4.231	15.188	-66.66	236+0.000	PCV	15.422	15.115	0.308	4.091	15.282	-66.66
-4.119	15.018	-66.66	237+0.000		15.177	14.872	0.305	4.112	15.023	-66.66
-4.154	14.673	-66.66	238+0.000	PCV	14.856	14.482	0.374	4.396	14.512	-66.66
-4.060	14.323	-66.66	239+0.000		14.443	14.136	0.307	4.421	14.082	-66.66
-4.134	13.544	-66.66	240+0.000		13.713	13.400	0.313	4.872	13.052	-66.66
-4.643	11.990	-66.66	241+0.000	PTV	12.499	11.944	0.555	5.332	11.531	-66.66
-4.664	10.335	-66.66	242+0.000	PCV	10.858	9.976	0.882	5.173	9.996	-66.66
-5.134	8.381	-66.66	243+0.000		9.218	8.162	1.056	5.118	8.392	-66.66
-5.606	6.746	-66.66	244+0.000		7.897	6.354	1.543	5.670	6.704	-66.66
-6.446	5.186	-66.66	245+0.000		6.896	5.138	1.758	6.492	5.156	-66.66
-6.692	4.342	-66.66	246+0.000		6.216	4.108	2.108	6.941	4.176	-66.66
-6.750	3.943	-66.66	247+0.000	PTV	5.856	3.277	2.579	7.196	3.645	-66.66
-7.338	3.511	-66.66	248+0.000	PCV	5.816	3.198	2.618	7.421	3.455	-66.66
-7.162	3.898	-66.66	249+0.000		6.086	4.003	2.083	7.307	3.801	-66.66
-6.256	5.131	-66.66	250+0.000		6.715	5.047	1.668	6.135	5.212	-66.66
-5.646	6.527	-66.66	251+0.000	PCV	7.704	6.646	1.058	5.065	6.915	-66.66
-4.728	8.433	-66.66	252+0.000		8.998	8.077	0.921	5.255	8.082	-66.66
-4.745	9.660	-66.66	253+0.000		10.237	9.423	0.813	5.087	9.432	-66.66
-4.795	10.722	-66.66	254+0.000		11.332	10.685	0.647	4.890	10.659	-66.66

Handwritten signature and initials.

-4.790	11.677	-66.66	255+0.000		PCV	12.284	11.648	0.636	4.000	12.204	-2.00
-5.042	11.910	-66.66	256+0.000			12.684	11.948	0.736	4.000	12.604	-2.00
-4.555	12.451	-66.66	257+0.000			12.901	12.429	0.472	4.355	12.585	-66.66
-4.251	12.837	-66.66	258+0.000			13.085	12.826	0.259	4.180	12.885	-66.66
-4.190	13.028	-66.66	259+0.000			13.235	13.041	0.194	4.039	13.129	-66.66
-6.725	11.455	-66.66	260+0.000			13.352	12.004	1.348	4.146	13.174	-66.66
-4.377	13.104	-66.66	261+0.000			13.485	13.120	0.314	4.373	13.106	-66.66
-4.458	13.099	-66.66	262+0.000		PTV	13.484	13.170	0.314	4.296	13.207	-66.66
-4.357	13.182	-66.66	263+0.000		PCV	13.500	13.181	0.319	4.278	13.235	-66.66
-4.265	13.274	-66.66	264+0.000			13.531	13.245	0.286	4.112	13.376	-66.66
-4.466	13.246	-66.66	265+0.000			13.637	13.255	0.382	4.312	13.349	-66.66
-4.893	13.143	-66.66	266+0.000			13.819	12.945	0.873	4.406	13.468	-66.66
-5.023	13.314	-66.66	267+0.000		PCV	14.076	13.763	0.313	4.000	13.996	-2.00
-4.519	13.983	-66.66	268+0.000		PCV	14.409	14.002	0.407	4.143	14.234	-66.66
-4.038	14.635	-66.66	269+0.000			14.740	14.391	0.349	4.051	14.694	66.66
-4.346	14.634	-66.66	270+0.000		PCV	14.944	14.590	0.354	4.337	14.640	-66.66
-4.504	14.584	-66.66	271+0.000			15.000	14.613	0.387	4.442	14.625	-66.66
-4.467	14.581	-66.66	272+0.000			14.973	14.539	0.434	4.400	14.626	-66.66
-4.356	14.577	-66.66	273+0.000			14.894	14.541	0.354	4.483	14.493	-66.66
-4.653	14.248	-66.66	274+0.000			14.764	14.250	0.514	4.623	14.268	-66.66
-4.763	13.992	-66.66	275+0.000		PCV	14.581	13.975	0.607	4.776	13.984	-66.66
-4.570	13.897	-66.66	276+0.000			14.357	13.758	0.600	4.862	13.703	-66.66
-4.576	13.713	-66.66	277+0.000			14.177	13.637	0.540	4.543	13.735	-66.66
-4.720	13.500	-66.66	278+0.000			14.060	13.516	0.544	4.670	13.533	-66.66
-4.681	13.471	-66.66	279+0.000		PCV	14.005	13.505	0.499	4.566	13.481	-66.66
-4.287	13.751	-66.66	280+0.000			14.022	13.697	0.325	4.527	13.591	-66.66
-4.443	13.807	-66.66	281+0.000			14.182	13.792	0.390	4.441	13.808	-66.66
-4.230	14.263	-66.66	282+0.000		PCV	14.496	14.199	0.298	4.486	14.093	-66.66
-4.527	14.512	-66.66	283+0.000			14.944	14.626	0.318	4.284	14.674	-66.66
-5.355	14.353	-66.66	284+0.000			15.336	14.903	0.433	4.206	15.118	-66.66
-5.197	14.749	-66.66	285+0.000			15.627	15.238	0.389	4.008	15.541	-66.66
-4.134	15.646	-66.66	286+0.000			15.815	15.983	-0.167	4.177	15.853	66.66
-4.563	15.447	-66.66	287+0.000			15.903	15.788	0.115	4.052	15.788	-66.66
-4.817	15.263	-66.66	288+0.000		PTV	15.888	15.593	0.294	4.282	15.620	-66.66
-4.900	15.093	-66.66	289+0.000		PCV	15.773	15.399	0.374	4.401	15.426	-66.66
-4.917	14.935	-66.66	290+0.000			15.626	15.204	0.422	4.479	15.227	-66.66
-4.709	14.930	-66.66	291+0.000			15.482	14.999	0.484	4.609	14.997	-66.66
-4.606	14.859	-66.66	292+0.000			15.343	14.880	0.463	4.589	14.871	-66.66
-4.618	14.717	-66.66	293+0.000			15.209	14.773	0.436	4.556	14.758	-66.66
-4.636	14.575	-66.66	294+0.000			15.079	14.637	0.442	4.523	14.651	-66.66
-4.579	14.488	-66.66	295+0.000			14.954	14.548	0.406	4.502	14.540	-66.66
-4.495	14.424	-66.66	296+0.000			14.834	14.427	0.407	4.502	14.419	-66.66
-4.495	14.308	-66.66	297+0.000			14.718	14.304	0.414	4.507	14.300	-66.66
-4.515	14.183	-66.66	298+0.000		PCV	14.607	14.179	0.428	4.523	14.178	-66.66

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-4.561	14.058	-66.66	299+0.000		PTV	14.512	14.064	0.449	4.427	14.148	-66.66
-4.656	14.097	-66.66	300+0.000			14.614	14.150	0.465	4.460	14.228	-66.66
-4.594	14.253	-66.66	301+0.000			14.729	14.295	0.433	4.414	14.373	-66.66
-4.532	14.409	-66.66	302+0.000		PCV	14.843	14.441	0.402	4.369	14.517	-66.66
-4.469	14.564	-66.66	303+0.000			14.957	14.586	0.371	4.323	14.662	-66.66
-4.394	14.720	-66.66	304+0.000			15.069	14.731	0.331	4.265	14.806	-66.66
-4.575	14.694	-66.66	305+0.000			15.157	14.877	0.280	4.190	14.950	-66.66
-4.858	14.587	-66.66	306+0.000			15.240	14.994	0.245	4.239	15.000	-66.66
-4.597	14.833	-66.66	307+0.000			15.311	14.957	0.354	4.347	15.000	-66.66
-4.607	14.886	-66.66	308+0.000			15.371	15.000	0.371	4.437	15.000	-66.66
-4.589	14.947	-66.66	309+0.000			15.420	15.000	0.420	4.510	15.000	-66.66
-4.565	15.000	-66.66	310+0.000			15.457	15.000	0.457	4.565	15.000	-66.66
-4.604	15.000	-66.66	311+0.000			15.483	15.000	0.483	4.604	15.000	-66.66
-4.668	14.971	-66.66	312+0.000		PCV	15.497	15.000	0.497	4.625	15.000	-66.66
-4.872	14.739	-66.66	313+0.000			15.400	14.867	0.533	4.501	14.986	-66.66
-4.604	14.523	-66.66	314+0.000			15.005	14.644	0.361	4.253	14.757	-66.66
-4.473	14.225	-66.66	315+0.000			14.620	14.332	0.288	4.169	14.427	-66.66
-4.440	13.871	-66.66	316+0.000			14.244	13.973	0.271	4.220	14.017	-66.66
-4.976	13.147	-66.66	317+0.000			13.877	13.315	0.562	4.363	13.555	-66.66
-4.862	12.865	-66.66	318+0.000			13.520	12.852	0.668	4.888	12.848	-66.66
-4.735	12.602	-66.66	319+0.000			13.172	12.615	0.557	4.724	12.610	-66.66
-4.582	12.365	-66.66	320+0.000		PCV	12.833	12.346	0.487	4.640	12.327	-66.66
-4.557	12.082	-66.66	321+0.000		PTV	12.533	12.063	0.470	4.568	12.074	-66.66
-4.507	11.896	-66.66	322+0.000			12.314	11.900	0.414	4.517	11.889	-66.66
-4.421	11.768	-66.66	323+0.000			12.128	11.735	0.393	4.500	11.714	-66.66
-4.337	11.637	-66.66	324+0.000			11.942	11.541	0.401	4.484	11.539	-66.66
-4.349	11.443	-66.66	325+0.000			11.756	11.347	0.409	4.467	11.364	-66.66
-4.356	11.253	-66.66	326+0.000			11.570	11.156	0.414	4.456	11.186	-66.66
-4.362	11.063	-66.66	327+0.000			11.384	10.966	0.418	4.446	11.007	-66.66
-4.367	10.873	-66.66	328+0.000		PCV	11.198	10.776	0.422	4.435	10.828	-66.66
-4.373	10.683	-66.66	329+0.000			11.012	10.586	0.426	4.425	10.649	-66.66
-4.407	10.494	-66.66	330+0.000			10.845	10.396	0.449	4.443	10.470	-66.66
-4.489	10.306	-66.66	331+0.000			10.712	10.206	0.505	4.507	10.294	-66.66
-4.806	9.993	-66.66	332+0.000			10.610	10.016	0.594	4.404	10.261	-66.66
-5.240	9.635	-66.66	333+0.000			10.542	10.015	0.526	4.287	10.270	-66.66
-5.724	9.277	-66.66	334+0.000		PCV	10.506	10.052	0.474	4.214	10.283	-66.66
-6.081	8.931	-66.66	335+0.000			10.398	9.867	0.530	4.168	10.205	-66.66
-6.122	8.554	-66.66	336+0.000			10.049	9.186	0.863	4.044	9.998	66.66
-6.341	8.177	-66.66	337+0.000			9.817	8.504	1.313	4.495	9.407	-66.66
-6.566	7.911	-66.66	338+0.000		PTV	9.702	7.828	1.874	5.148	8.857	-66.66
-6.729	7.791	-66.66	339+0.000			9.690	7.451	2.239	5.920	8.330	-66.66
-6.913	7.672	-66.66	340+0.000			9.694	7.246	2.447	6.710	7.807	-66.66
-7.492	7.289	-66.66	341+0.000			9.697	7.208	2.489	6.493	7.956	-66.66
-7.208	7.482	-66.66	342+0.000			9.701	7.549	2.152	5.930	8.334	-66.66

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-6.707	7.820	-66.66	343+0.000			9.704	7.882	1.812	5.368	8.713	-66.66
-6.189	8.169	-66.66	344+0.000		PCV	9.708	8.235	1.473	4.805	9.091	-66.66
-5.735	8.516	-66.66	345+0.000			9.753	8.612	1.141	4.290	9.479	-66.66
-5.436	8.862	-66.66	346+0.000			9.900	9.104	0.796	4.201	9.954	66.66
-5.294	9.207	-66.66	347+0.000		PCV	10.149	9.596	0.553	4.081	10.123	66.66
-5.298	9.548	-66.66	348+0.000		PTV	10.493	10.026	0.467	4.229	10.260	-66.66
-4.911	9.889	-66.66	349+0.000		PCV	10.577	10.146	0.431	4.222	10.349	-66.66
-4.692	10.114	-66.66	350+0.000			10.655	10.101	0.554	4.503	10.240	-66.66
-4.581	10.274	-66.66	351+0.000			10.741	10.261	0.480	4.618	10.249	-66.66
-4.483	10.434	-66.66	352+0.000			10.836	10.422	0.414	4.520	10.409	-66.66
-4.404	10.590	-66.66	353+0.000			10.940	10.569	0.371	4.469	10.547	-66.66
-4.366	10.728	-66.66	354+0.000			11.052	10.707	0.345	4.430	10.685	-66.66
-4.342	10.867	-66.66	355+0.000			11.174	10.845	0.329	4.405	10.824	-66.66
-4.335	11.002	-66.66	356+0.000			11.305	10.994	0.311	4.358	10.986	-66.66
-4.297	11.167	-66.66	357+0.000			11.445	11.160	0.285	4.319	11.152	-66.66
-4.271	11.333	-66.66	358+0.000			11.593	11.325	0.268	4.294	11.318	-66.66
-4.269	11.492	-66.66	359+0.000		PCV	11.751	11.494	0.257	4.267	11.493	-66.66
-4.260	11.661	-66.66	360+0.000			11.914	11.655	0.259	4.282	11.646	-66.66
-4.240	11.816	-66.66	361+0.000		PCV	12.056	11.807	0.249	4.267	11.799	-66.66
-4.191	11.969	-66.66	362+0.000			12.176	11.960	0.216	4.217	11.951	-66.66
-4.312	12.000	-66.66	363+0.000			12.288	12.000	0.288	4.312	12.000	-66.66
-4.421	12.033	-66.66	364+0.000			12.393	12.003	0.390	4.470	12.000	-66.66
-4.474	12.097	-66.66	365+0.000			12.492	12.067	0.425	4.564	12.036	-66.66
-4.516	12.160	-66.66	366+0.000			12.585	12.130	0.454	4.607	12.100	-66.66
-4.531	12.237	-66.66	367+0.000		PTV	12.671	12.216	0.455	4.595	12.194	-66.66
-4.479	12.351	-66.66	368+0.000		PCV	12.750	12.350	0.420	4.543	12.308	-66.66
-4.422	12.464	-66.66	369+0.000			12.826	12.444	0.382	4.485	12.423	-66.66
-4.360	12.578	-66.66	370+0.000			12.898	12.557	0.341	4.422	12.537	-66.66
-4.323	12.673	-66.66	371+0.000			12.968	12.671	0.296	4.355	12.651	-66.66
-4.390	12.695	-66.66	372+0.000			13.034	12.748	0.286	4.300	12.755	-66.66
-4.373	12.769	-66.66	373+0.000			13.098	12.823	0.275	4.266	12.841	-66.66
-4.352	12.844	-66.66	374+0.000		PCV	13.159	12.897	0.261	4.228	12.927	-66.66
-4.540	12.750	-66.66	375+0.000			13.190	12.893	0.296	4.214	12.967	-66.66
-4.381	12.697	-66.66	376+0.000		PTV	13.031	12.583	0.448	4.683	12.496	-66.66
-4.582	12.216	-66.66	377+0.000			12.684	12.114	0.570	4.861	12.030	-66.66
-4.536	11.873	-66.66	378+0.000		PCV	12.310	11.733	0.577	4.921	11.616	-66.66
-4.438	11.572	-66.66	379+0.000			11.944	11.429	0.516	4.865	11.288	-66.66
-4.376	11.273	-66.66	380+0.000			11.604	11.131	0.473	4.824	10.975	-66.66
-4.351	10.975	-66.66	381+0.000			11.290	10.834	0.455	4.797	10.679	-66.66
-4.241	10.760	-66.66	382+0.000			11.001	10.615	0.386	4.699	10.455	-66.66
-4.159	10.552	-66.66	383+0.000			10.738	10.410	0.328	4.608	10.252	-66.66
-4.113	10.345	-66.66	384+0.000		PCV	10.500	10.205	0.296	4.557	10.049	-66.66
-4.150	10.095	-66.66	385+0.000		PCV	10.275	9.994	0.281	4.463	9.886	-66.66
-4.169	9.571	-66.66	386+0.000			9.764	9.470	0.294	4.484	9.362	-66.66

Handwritten signature/initials

-4.073	9.079	-66.66	387+0.000			9.207	8.951	0.256	4.474	8.811	-66.66
-4.139	8.444	-66.66	388+0.000			8.616	8.417	0.199	4.219	8.390	-66.66
-4.281	7.724	-66.66	389+0.000		PCV	7.991	7.696	0.295	4.364	7.669	-66.66
-4.199	7.124	-66.66	390+0.000			7.337	7.029	0.308	4.495	6.927	-66.66
-4.187	6.549	-66.66	391+0.000		PTV	6.753	6.454	0.300	4.482	6.352	-66.66
-4.291	5.976	-66.66	392+0.000			6.250	5.879	0.371	4.593	5.775	-66.66
-4.400	5.404	-66.66	393+0.000		PCV	5.750	5.334	0.416	4.482	5.349	-66.66
-4.342	4.952	-66.66	394+0.000			5.260	4.949	0.311	4.352	4.945	-66.66
-4.247	4.565	-66.66	395+0.000			4.810	4.562	0.248	4.257	4.559	-66.66

Diogo Fernando Lima
 DIAGO FERNANDO LIMA
 ENGENHEIRO CIVIL
 CREA 53373

TL



Estaca	Área de Corte (m ²)	Área de Aterro (m ²)	VOLUME TOTAL				
			Volum. de Corte (m3)	Volum. de Aterro (m3)	Volum. Corte Acum. (m3)	Volum. Aterro Acum. (m3)	Volum. Líquido (m3)
0+0,00	0.14	0.69	0.00	0.00	0.00	0.00	0.00
1+0,00	0.61	1.03	7.47	17.20	7.47	17.20	-9.73
2+0,00	0.14	0.76	7.48	17.98	14.95	35.17	-20.22
3+0,00	0.33	0.60	4.67	13.60	19.62	48.78	-29.15
4+0,00	0.41	0.77	7.34	13.76	26.96	62.54	-35.58
5+0,00	0.38	1.21	7.88	19.91	34.84	82.45	-47.61
6+0,00	0.18	0.65	5.59	18.68	40.43	101.13	-60.70
7+0,00	0.00	1.91	1.76	25.56	42.19	126.69	-84.50
8+0,00	0.00	2.07	0.04	39.82	42.23	166.50	-124.27
9+0,00	0.00	1.30	0.05	33.54	42.28	200.04	-157.76
10+0,00	0.00	1.11	0.02	24.05	42.30	224.09	-181.79
11+0,00	0.00	1.11	0.00	22.19	42.30	246.28	-203.98
12+0,00	0.00	1.14	0.00	22.51	42.30	268.79	-226.49
13+0,00	0.06	0.67	0.57	18.09	42.87	286.88	-244.01
14+0,00	0.32	1.19	3.77	18.57	46.64	305.45	-258.81
15+0,00	0.00	1.09	3.26	22.64	49.90	328.09	-278.19
16+0,00	0.00	1.50	0.03	25.82	49.93	353.91	-303.98
17+0,00	0.00	1.50	0.00	30.00	49.93	383.90	-333.98
18+0,00	0.00	1.67	0.00	31.62	49.93	415.53	-365.60
19+0,00	0.00	1.96	0.00	36.35	49.93	451.88	-401.95
20+0,00	0.00	1.97	0.00	39.37	49.93	491.25	-441.32
21+0,00	0.00	2.57	0.00	45.46	49.93	536.71	-486.78
22+0,00	0.00	2.54	0.00	51.11	49.93	587.81	-537.89
23+0,00	0.00	2.31	0.00	48.50	49.93	636.31	-586.38
24+0,00	0.00	2.37	0.00	46.85	49.93	683.16	-633.23
25+0,00	0.00	2.52	0.00	48.93	49.93	732.08	-682.16
26+0,00	0.00	2.70	0.00	52.20	49.93	784.29	-734.36
27+0,00	0.00	2.86	0.00	55.58	49.93	839.87	-789.94
28+0,00	0.00	2.49	0.00	53.47	49.93	893.33	-843.40
29+0,00	0.00	2.07	0.00	45.61	49.93	938.94	-889.01
30+0,00	0.04	1.72	0.36	37.88	50.29	976.82	-926.52
31+0,00	0.09	1.28	1.23	29.93	51.52	1006.74	-955.22
32+0,00	0.00	1.94	0.86	32.16	52.38	1038.90	-986.52
33+0,00	0.00	1.77	0.00	37.05	52.38	1075.95	-1023.57
34+0,00	0.00	1.94	0.00	37.07	52.38	1113.02	-1060.63
35+0,00	0.00	2.25	0.00	41.92	52.38	1154.94	-1102.56
36+0,00	0.00	1.66	0.00	38.94	52.38	1193.88	-1141.50
37+0,00	0.00	1.95	0.00	35.99	52.38	1229.87	-1177.49
38+0,00	0.00	1.48	0.01	34.29	52.39	1264.17	-1211.78
39+0,00	0.00	1.61	0.01	30.93	52.40	1295.09	-1242.70
40+0,00	0.00	2.06	0.00	36.74	52.40	1331.83	-1279.43
41+0,00	0.00	1.59	0.00	36.44	52.40	1368.27	-1315.87
42+0,00	0.08	1.74	0.80	33.00	53.20	1401.27	-1348.07
43+0,00	0.05	1.24	1.24	29.75	54.43	1431.01	-1376.58
44+0,00	0.00	1.20	0.45	24.42	54.88	1455.44	-1400.56


Diogo Fernando Lima
ENGENHEIRO CIVIL
CREA 56373

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45+0,00	0.00	1.34	0.00	25.41	54.88	1480.85	-1425.97
46+0,00	0.00	1.54	0.00	28.85	54.88	1509.70	-1454.82
47+0,00	0.00	1.80	0.00	33.40	54.88	1543.10	-1488.22
48+0,00	0.00	1.84	0.00	36.43	54.88	1579.53	-1524.65
49+0,00	0.00	1.49	0.00	33.35	54.88	1612.87	-1558.00
50+0,00	0.00	1.54	0.00	30.30	54.88	1643.17	-1588.29
51+0,00	0.00	1.54	0.00	30.76	54.88	1673.93	-1619.06
52+0,00	0.00	1.14	0.00	26.77	54.88	1700.71	-1645.83
53+0,00	0.00	1.67	0.00	28.13	54.88	1728.84	-1673.96
54+0,00	0.00	1.78	0.00	34.52	54.88	1763.36	-1708.48
55+0,00	0.00	1.61	0.00	33.81	54.88	1797.17	-1742.29
56+0,00	0.00	1.72	0.00	33.30	54.88	1830.47	-1775.59
57+0,00	0.00	1.29	0.00	30.20	54.88	1860.67	-1805.79
58+0,00	0.00	0.95	0.00	22.39	54.88	1883.06	-1828.19
59+0,00	0.00	1.46	0.00	24.02	54.88	1907.08	-1852.21
60+0,00	0.00	1.04	0.00	25.02	54.88	1932.10	-1877.23
61+0,00	0.00	1.65	0.00	27.01	54.88	1959.11	-1904.24
62+0,00	0.00	1.74	0.00	33.90	54.88	1993.01	-1938.13
63+0,00	0.04	2.19	0.38	39.21	55.26	2032.22	-1976.96
64+0,00	0.01	1.99	0.44	41.85	55.70	2074.07	-2018.37
65+0,00	0.00	1.17	0.07	31.53	55.77	2105.61	-2049.84
66+0,00	0.00	1.46	0.01	26.39	55.78	2132.00	-2076.22
67+0,00	0.09	0.55	0.90	20.16	56.68	2152.16	-2095.48
68+0,00	0.00	0.55	0.89	11.07	57.56	2163.23	-2105.67
69+0,00	0.00	1.21	0.03	17.65	57.59	2180.88	-2123.28
70+0,00	0.00	3.15	0.02	43.80	57.62	2224.68	-2167.06
71+0,00	0.00	6.66	0.00	98.76	57.62	2323.44	-2265.82
72+0,00	0.26	1.75	2.66	82.19	60.28	2405.62	-2345.35
73+0,00	0.00	1.44	2.58	31.88	62.86	2437.51	-2374.65
74+0,00	0.00	1.61	0.00	30.27	62.86	2467.78	-2404.92
75+0,00	0.00	3.88	0.00	54.84	62.86	2522.62	-2459.76
76+0,00	0.00	3.59	0.00	74.79	62.86	2597.40	-2534.55
77+0,00	0.00	2.98	0.00	65.72	62.86	2663.13	-2600.27
78+0,00	0.00	1.55	0.00	45.40	62.86	2708.53	-2645.67
79+0,00	0.00	1.34	0.00	28.93	62.86	2737.46	-2674.60
80+0,00	0.00	1.83	0.00	31.77	62.86	2769.23	-2706.37
81+0,00	0.00	3.21	0.00	50.47	62.86	2819.70	-2756.84
82+0,00	0.00	4.10	0.00	73.07	62.86	2892.76	-2829.91
83+0,00	0.00	4.39	0.00	84.85	62.86	2977.61	-2914.75
84+0,00	0.00	4.42	0.00	88.24	62.86	3065.85	-3002.99
85+0,00	0.00	4.80	0.00	92.30	62.86	3158.15	-3095.29
86+0,00	0.00	4.02	0.00	88.56	62.86	3246.70	-3183.85
87+0,00	0.07	2.06	0.70	61.06	63.56	3307.77	-3244.21
88+0,00	0.32	1.48	3.90	35.45	67.46	3343.22	-3275.76
89+0,00	0.00	2.96	3.32	43.44	70.78	3386.66	-3315.88
90+0,00	0.47	2.55	5.49	49.18	76.27	3435.84	-3359.56
91+0,00	0.04	1.10	5.45	34.40	81.73	3470.24	-3388.51
92+0,00	0.00	1.85	0.35	29.48	82.08	3499.73	-3417.64
93+0,00	0.00	1.20	0.00	30.56	82.08	3530.28	-3448.20
94+0,00	0.00	1.17	0.00	23.67	82.08	3553.95	-3471.87

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95+0,00	0.00	1.32	0.00	24.89	82.08	3578.84	-3496.76
96+0,00	0.00	0.95	0.00	22.62	82.08	3601.46	-3519.38
97+0,00	0.00	1.01	0.00	19.54	82.08	3621.01	-3538.92
98+0,00	0.04	0.84	0.38	18.41	82.46	3639.42	-3556.95
99+0,00	0.00	12.10	0.39	129.62	82.85	3769.04	-3686.19
100+0,00	0.00	17.23	0.00	293.24	82.85	4062.29	-3979.44
101+0,00	0.00	22.56	0.00	397.87	82.85	4460.15	-4377.30
102+0,00	0.00	9.31	0.00	318.75	82.85	4778.90	-4696.05
103+0,00	0.00	4.69	0.00	140.03	82.85	4918.93	-4836.08
104+0,00	0.05	0.44	0.53	51.27	83.38	4970.20	-4886.82
105+0,00	0.00	1.62	0.55	20.51	83.92	4990.71	-4906.79
106+0,00	0.05	0.95	0.53	25.67	84.45	5016.39	-4931.94
107+0,00	0.00	0.54	0.53	14.88	84.98	5031.26	-4946.29
108+0,00	0.00	2.21	0.00	27.53	84.98	5058.80	-4973.82
109+0,00	0.00	2.95	0.00	51.67	84.98	5110.47	-5025.49
110+0,00	0.00	2.66	0.00	56.16	84.98	5166.63	-5081.65
111+0,00	0.00	2.90	0.00	55.58	84.98	5222.21	-5137.23
112+0,00	0.00	3.46	0.00	63.55	84.98	5285.75	-5200.77
113+0,00	0.00	3.95	0.00	74.07	84.98	5359.82	-5274.84
114+0,00	0.00	3.45	0.00	73.97	84.98	5433.79	-5348.81
115+0,00	0.00	2.57	0.00	60.17	84.98	5493.96	-5408.98
116+0,00	0.00	2.49	0.00	50.61	84.98	5544.57	-5459.59
117+0,00	0.00	2.24	0.00	47.30	84.98	5591.87	-5506.90
118+0,00	0.00	2.58	0.00	48.21	84.98	5640.08	-5555.11
119+0,00	0.00	3.14	0.00	57.15	84.98	5697.23	-5612.26
120+0,00	0.00	3.24	0.00	63.83	84.98	5761.06	-5676.08
121+0,00	0.00	3.56	0.00	67.99	84.98	5829.05	-5744.07
122+0,00	0.00	3.71	0.00	72.72	84.98	5901.77	-5816.79
123+0,00	0.00	4.13	0.00	78.44	84.98	5980.20	-5895.22
124+0,00	0.00	3.66	0.00	77.88	84.98	6058.08	-5973.10
125+0,00	0.00	2.99	0.00	66.40	84.98	6124.48	-6039.50
126+0,00	0.00	3.23	0.00	62.25	84.98	6186.72	-6101.74
127+0,00	0.00	3.13	0.00	63.41	84.98	6250.13	-6165.16
128+0,00	0.00	3.44	0.00	65.63	84.98	6315.76	-6230.79
129+0,00	0.00	3.46	0.00	68.86	84.98	6384.63	-6299.65
130+0,00	0.00	4.27	0.00	77.29	84.98	6461.92	-6376.94
131+0,00	0.00	3.03	0.00	72.99	84.98	6534.90	-6449.93
132+0,00	0.00	2.98	0.00	60.03	84.98	6594.94	-6509.96
133+0,00	0.00	2.24	0.00	51.93	84.98	6646.87	-6561.89
134+0,00	0.00	2.42	0.00	46.29	84.98	6693.16	-6608.18
135+0,00	0.00	2.05	0.00	44.56	84.98	6737.71	-6652.74
136+0,00	0.00	2.86	0.00	49.14	84.98	6786.85	-6701.88
137+0,00	0.00	3.51	0.00	63.78	84.98	6850.64	-6765.66
138+0,00	0.00	2.29	0.00	57.94	84.98	6908.57	-6823.60
139+0,00	0.00	1.98	0.00	42.70	84.98	6951.28	-6866.30
140+0,00	0.00	1.86	0.00	38.42	84.98	6989.70	-6904.72
141+0,00	0.00	3.45	0.00	53.13	84.98	7042.83	-6957.85
142+0,00	0.00	2.52	0.00	59.66	84.98	7102.49	-7017.52
143+0,00	0.00	2.34	0.00	48.43	84.98	7150.93	-7065.95
144+0,00	0.00	2.91	0.00	52.54	84.98	7203.47	-7118.49

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145+0,00	0.00	3.78	0.00	66.74	84.98	7270.21	-7185.23
146+0,00	0.00	4.30	0.00	80.56	84.98	7350.76	-7265.79
147+0,00	0.00	4.53	0.00	88.16	84.98	7438.92	-7353.95
148+0,00	0.00	4.23	0.00	87.54	84.98	7526.46	-7441.48
149+0,00	0.00	3.13	0.00	73.70	84.98	7600.16	-7515.18
150+0,00	0.00	2.41	0.00	55.46	84.98	7655.61	-7570.64
151+0,00	0.00	0.88	0.00	32.90	84.98	7688.51	-7603.54
152+0,00	0.00	0.91	0.00	17.88	84.98	7706.40	-7621.42
153+0,00	0.00	1.73	0.00	26.35	84.98	7732.74	-7647.76
154+0,00	0.00	1.44	0.00	31.70	84.98	7764.45	-7679.47
155+0,00	0.00	1.32	0.00	27.62	84.98	7792.06	-7707.08
156+0,00	0.00	1.39	0.00	27.09	84.98	7819.15	-7734.17
157+0,00	0.00	0.81	0.00	21.91	84.98	7841.06	-7756.09
158+0,00	0.00	0.54	0.00	13.42	84.98	7854.49	-7769.51
159+0,00	0.00	0.62	0.00	11.54	84.98	7866.03	-7781.05
160+0,00	0.00	0.82	0.00	14.36	84.98	7880.39	-7795.41
161+0,00	0.00	1.22	0.00	20.36	84.98	7900.75	-7815.77
162+0,00	0.00	1.05	0.00	22.66	84.98	7923.41	-7838.43
163+0,00	0.00	1.17	0.00	22.22	84.98	7945.63	-7860.65
164+0,00	0.01	1.32	0.10	24.89	85.08	7970.52	-7885.44
165+0,00	0.00	1.91	0.10	32.31	85.18	8002.82	-7917.64
166+0,00	0.00	1.54	0.00	34.57	85.18	8037.39	-7952.21
167+0,00	0.00	2.21	0.00	37.53	85.19	8074.93	-7989.74
168+0,00	0.00	2.80	0.00	50.16	85.19	8125.09	-8039.90
169+0,00	0.00	2.25	0.00	50.52	85.19	8175.61	-8090.42
170+0,00	0.00	1.54	0.00	37.91	85.19	8213.52	-8128.33
171+0,00	0.00	0.89	0.00	24.31	85.19	8237.83	-8152.64
172+0,00	0.13	0.45	1.32	13.35	86.50	8251.18	-8164.68
173+0,00	0.32	0.28	4.46	7.28	90.96	8258.46	-8167.50
174+0,00	0.00	1.59	3.14	18.73	94.10	8277.18	-8183.08
175+0,00	0.00	2.50	0.00	40.85	94.10	8318.03	-8223.93
176+0,00	0.00	2.55	0.00	50.53	94.10	8368.56	-8274.46
177+0,00	0.00	3.52	0.00	60.59	94.10	8429.15	-8335.05
178+0,00	0.00	5.48	0.00	90.01	94.10	8519.16	-8425.06
179+0,00	0.00	5.64	0.00	111.55	94.10	8630.71	-8536.61
180+0,00	0.00	6.06	0.00	117.00	94.10	8747.71	-8653.60
181+0,00	0.00	5.92	0.00	119.96	94.10	8867.67	-8773.57
182+0,00	0.00	7.03	0.00	129.70	94.10	8997.37	-8903.27
183+0,00	0.00	7.36	0.00	144.77	94.10	9142.14	-9048.04
184+0,00	0.00	7.94	0.00	152.94	94.10	9295.09	-9200.98
185+0,00	0.00	8.62	0.00	165.72	94.10	9460.81	-9366.70
186+0,00	0.00	10.45	0.00	190.74	94.10	9651.55	-9557.44
187+0,00	0.00	8.70	0.00	191.92	94.10	9843.47	-9749.36
188+0,00	0.00	10.58	0.00	192.88	94.10	10036.35	-9942.24
189+0,00	0.00	10.42	0.00	209.95	94.10	10246.30	-10152.19
190+0,00	0.00	13.32	0.00	237.37	94.10	10483.67	-10389.56
191+0,00	0.00	18.06	0.00	313.72	94.10	10797.38	-10703.28
192+0,00	0.00	22.01	0.00	401.74	94.10	11199.12	-11105.02
193+0,00	0.00	28.73	0.00	507.12	94.10	11706.25	-11612.14
194+0,00	0.00	29.64	0.00	585.36	94.10	12291.61	-12197.50

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195+0,00	0.00	17.99	0.00	475.15	94.10	12766.75	-12672.65
196+0,00	0.00	9.73	0.00	277.18	94.10	13043.93	-12949.83
197+0,00	0.00	4.59	0.00	143.62	94.10	13187.55	-13093.44
198+0,00	0.00	2.03	0.00	66.32	94.10	13253.86	-13159.76
199+0,00	0.00	2.36	0.00	43.64	94.10	13297.50	-13203.40
200+0,00	0.00	4.20	0.00	65.30	94.10	13362.81	-13268.70
201+0,00	0.00	5.65	0.00	98.59	94.10	13461.40	-13367.29
203+0,00	0.00	10.25	0.00	317.86	94.10	13779.26	-13685.16
204+0,00	0.00	8.10	0.00	183.16	94.10	13962.42	-13868.32
205+0,00	0.00	8.82	0.00	168.72	94.10	14131.15	-14037.04
206+0,00	0.00	6.57	0.00	153.92	94.10	14285.06	-14190.96
207+0,00	0.00	5.00	0.00	115.64	94.10	14400.70	-14306.59
208+0,00	0.00	3.31	0.00	83.01	94.10	14483.71	-14389.61
209+0,00	0.00	2.36	0.00	56.61	94.10	14540.32	-14446.22
210+0,00	0.00	2.32	0.00	46.83	94.10	14587.16	-14493.05
211+0,00	0.00	2.19	0.00	45.21	94.10	14632.37	-14538.26
212+0,00	0.00	3.25	0.00	54.41	94.10	14686.78	-14592.67
213+0,00	0.00	2.66	0.00	59.06	94.10	14745.83	-14651.73
214+0,00	0.00	3.92	0.00	66.07	94.10	14811.90	-14717.80
215+0,00	0.00	3.12	0.00	70.39	94.10	14882.29	-14788.19
216+0,00	0.00	3.23	0.00	63.54	94.10	14945.84	-14851.73
217+0,00	0.00	3.15	0.00	63.91	94.10	15009.74	-14915.64
218+0,00	0.00	3.43	0.00	65.54	94.10	15075.28	-14981.17
219+0,00	0.00	4.06	0.00	74.83	94.10	15150.11	-15056.00
220+0,00	0.00	3.00	0.00	70.61	94.10	15220.71	-15126.61
221+0,00	0.06	2.05	0.60	50.49	94.71	15271.21	-15176.50
222+0,00	0.00	3.10	0.60	51.52	95.31	15322.72	-15227.42
223+0,00	0.00	4.20	0.00	72.93	95.31	15395.66	-15300.35
224+0,00	0.00	3.29	0.00	74.83	95.31	15470.49	-15375.18
225+0,00	0.00	4.38	0.00	76.71	95.31	15547.20	-15451.89
226+0,00	0.00	2.16	0.00	65.47	95.31	15612.67	-15517.36
227+0,00	0.00	4.80	0.00	69.69	95.31	15682.36	-15587.05
228+0,00	0.00	1.62	0.00	64.19	95.31	15746.55	-15651.24
229+0,00	0.00	1.24	0.00	28.57	95.31	15775.12	-15679.81
230+0,00	0.00	1.90	0.00	31.39	95.31	15806.50	-15711.19
231+0,00	0.00	2.54	0.00	44.40	95.31	15850.91	-15755.60
232+0,00	0.00	2.85	0.00	53.91	95.31	15904.82	-15809.51
233+0,00	0.00	3.56	0.00	64.09	95.31	15968.91	-15873.60
234+0,00	0.00	2.03	0.00	55.84	95.31	16024.75	-15929.44
235+0,00	0.00	2.59	0.00	46.14	95.31	16070.90	-15975.59
236+0,00	0.00	2.09	0.00	46.77	95.31	16117.66	-16022.35
237+0,00	0.00	1.88	0.00	39.75	95.31	16157.42	-16062.11
238+0,00	0.00	2.61	0.00	44.94	95.31	16202.35	-16107.04
239+0,00	0.00	2.14	0.00	47.51	95.31	16249.86	-16154.55
240+0,00	0.00	2.48	0.00	46.22	95.31	16296.08	-16200.77
241+0,00	0.00	4.81	0.00	72.89	95.31	16368.97	-16273.66
242+0,00	0.00	7.27	0.00	120.63	95.31	16489.60	-16394.29
243+0,00	0.00	8.96	0.00	162.30	95.31	16651.89	-16556.59
244+0,00	0.00	13.73	0.00	226.98	95.31	16878.88	-16783.57
245+0,00	0.00	18.28	0.00	320.10	95.31	17198.98	-17103.67

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246+0,00	0.00	23.33	0.00	416.01	95.31	17614.98	-17519.67
247+0,00	0.00	29.96	0.00	532.59	95.31	18147.57	-18052.26
248+0,00	0.00	32.00	0.00	619.77	95.31	18767.34	-18672.03
249+0,00	0.00	23.25	0.00	551.73	95.31	19319.07	-19223.76
250+0,00	0.00	15.66	0.00	388.91	95.31	19707.98	-19612.67
251+0,00	0.00	9.52	0.00	251.76	95.31	19959.74	-19864.43
252+0,00	0.00	7.78	0.00	172.97	95.31	20132.71	-20037.41
253+0,00	0.00	6.44	0.00	142.00	95.31	20274.71	-20179.40
254+0,00	0.00	5.57	0.00	119.95	95.31	20394.67	-20299.36
255+0,00	0.00	5.13	0.00	106.96	95.31	20501.63	-20406.32
256+0,00	0.00	5.78	0.00	108.87	95.31	20610.50	-20515.19
257+0,00	0.00	3.41	0.00	91.90	95.31	20702.39	-20607.09
258+0,00	0.00	1.74	0.00	51.50	95.31	20753.89	-20658.58
259+0,00	0.00	1.31	0.00	30.50	95.31	20784.39	-20689.08
260+0,00	0.00	13.44	0.00	148.27	95.31	20932.66	-20837.35
261+0,00	0.00	2.28	0.00	156.73	95.31	21089.39	-20994.08
262+0,00	0.00	2.30	0.00	45.79	95.31	21135.18	-21039.87
263+0,00	0.00	2.23	0.00	45.32	95.31	21180.50	-21085.19
264+0,00	0.00	1.98	0.00	42.20	95.31	21222.70	-21127.39
265+0,00	0.00	2.85	0.00	48.35	95.31	21271.05	-21175.74
266+0,00	0.00	6.12	0.00	89.93	95.31	21360.97	-21265.66
267+0,00	0.00	2.90	0.00	89.79	95.31	21450.76	-21355.45
268+0,00	0.00	3.00	0.00	58.93	95.31	21509.69	-21414.38
269+0,00	0.00	2.05	0.03	50.44	95.34	21560.12	-21464.78
270+0,00	0.00	2.62	0.04	46.75	95.38	21606.88	-21511.50
271+0,00	0.00	2.98	0.00	56.00	95.38	21662.88	-21567.50
272+0,00	0.00	3.21	0.00	61.91	95.38	21724.79	-21629.41
273+0,00	0.00	2.64	0.00	58.50	95.38	21783.29	-21687.91
274+0,00	0.00	4.21	0.00	68.51	95.38	21851.80	-21756.43
275+0,00	0.00	4.93	0.00	91.40	95.38	21943.20	-21847.82
276+0,00	0.00	4.75	0.00	96.77	95.38	22039.97	-21944.59
277+0,00	0.00	4.05	0.00	88.01	95.38	22127.98	-22032.60
278+0,00	0.00	4.36	0.00	84.09	95.38	22212.07	-22116.69
279+0,00	0.00	3.98	0.00	83.34	95.38	22295.40	-22200.02
280+0,00	0.00	2.40	0.00	63.80	95.38	22359.20	-22263.82
281+0,00	0.00	2.94	0.00	53.46	95.38	22412.66	-22317.28
282+0,00	0.00	2.22	0.00	51.56	95.38	22464.22	-22368.84
283+0,00	0.00	2.36	0.00	45.79	95.38	22510.01	-22414.63
284+0,00	0.00	3.93	0.00	62.83	95.38	22572.84	-22477.46
285+0,00	0.00	3.24	0.00	74.44	95.38	22647.28	-22551.90
286+0,00	0.89	0.05	8.62	34.62	104.00	22681.91	-22577.91
287+0,00	0.00	1.17	8.93	12.30	112.93	22694.21	-22581.28
288+0,00	0.00	2.63	0.00	38.06	112.93	22732.26	-22619.33
289+0,00	0.00	3.25	0.00	58.79	112.93	22791.05	-22678.12
290+0,00	0.00	3.58	0.00	68.11	112.93	22859.16	-22746.23
291+0,00	0.00	3.96	0.00	74.82	112.93	22933.98	-22821.05
292+0,00	0.00	3.63	0.00	75.81	112.93	23009.78	-22896.85
293+0,00	0.00	3.50	0.00	71.36	112.93	23081.14	-22968.21
294+0,00	0.00	3.48	0.00	69.86	112.93	23150.99	-23038.06
295+0,00	0.00	3.23	0.00	67.19	112.93	23218.19	-23105.26

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296+0,00	0.00	3.10	0.00	63.25	112.93	23281.44	-23168.51
297+0,00	0.00	3.16	0.00	62.56	112.93	23344.00	-23231.07
298+0,00	0.00	3.28	0.00	64.37	112.93	23408.37	-23295.44
299+0,00	0.00	3.31	0.00	65.92	112.93	23474.29	-23361.36
300+0,00	0.00	3.61	0.00	69.50	112.93	23543.79	-23430.86
301+0,00	0.00	3.31	0.00	69.11	112.93	23612.90	-23499.97
302+0,00	0.00	3.00	0.00	63.10	112.93	23675.99	-23563.07
303+0,00	0.00	2.70	0.00	57.01	112.93	23733.01	-23620.08
304+0,00	0.00	2.32	0.00	50.16	112.93	23783.16	-23670.23
305+0,00	0.00	1.95	0.00	42.64	112.93	23825.80	-23712.87
306+0,00	0.00	2.27	0.00	42.96	112.93	23868.75	-23755.83
307+0,00	0.00	2.74	0.00	50.11	112.93	23918.87	-23805.94
308+0,00	0.00	3.01	0.00	57.68	112.93	23976.55	-23863.63
309+0,00	0.00	3.26	0.00	62.68	112.93	24039.23	-23926.30
310+0,00	0.00	3.55	0.00	68.08	112.93	24107.31	-23994.38
311+0,00	0.00	3.78	0.00	73.30	112.93	24180.61	-24067.69
312+0,00	0.00	3.92	0.00	77.05	112.93	24257.66	-24144.73
313+0,00	0.00	4.27	0.00	81.93	112.93	24339.59	-24226.67
314+0,00	0.00	2.71	0.00	69.77	112.93	24409.36	-24296.43
315+0,00	0.00	2.07	0.00	47.49	112.93	24456.85	-24343.92
316+0,00	0.00	1.96	0.00	39.79	112.93	24496.64	-24383.71
317+0,00	0.00	4.36	0.00	63.15	112.93	24559.79	-24446.86
318+0,00	0.00	5.58	0.00	99.32	112.93	24659.12	-24546.19
319+0,00	0.00	4.50	0.00	100.72	112.93	24759.84	-24646.91
320+0,00	0.00	3.83	0.00	83.30	112.93	24843.13	-24730.20
321+0,00	0.00	3.66	0.00	74.84	112.93	24917.98	-24805.05
322+0,00	0.00	3.24	0.00	68.88	112.93	24986.85	-24873.92
323+0,00	0.00	3.00	0.00	62.37	112.93	25049.22	-24936.29
324+0,00	0.00	2.94	0.00	59.37	112.93	25108.60	-24995.67
325+0,00	0.00	2.96	0.00	59.04	112.93	25167.64	-25054.71
326+0,00	0.00	2.97	0.00	59.36	112.93	25227.00	-25114.07
327+0,00	0.00	2.97	0.00	59.45	112.93	25286.45	-25173.52
328+0,00	0.00	2.97	0.00	59.44	112.93	25345.89	-25232.96
329+0,00	0.00	2.97	0.00	59.39	112.93	25405.28	-25292.35
330+0,00	0.00	3.13	0.00	61.02	112.93	25466.30	-25353.37
331+0,00	0.00	3.59	0.00	67.23	112.93	25533.52	-25420.59
332+0,00	0.00	4.31	0.00	78.95	112.93	25612.47	-25499.54
333+0,00	0.00	5.02	0.00	93.20	112.93	25705.67	-25592.75
334+0,00	0.00	5.33	0.00	103.43	112.93	25809.11	-25696.18
335+0,00	0.00	6.12	0.00	112.47	112.93	25921.58	-25808.65
336+0,00	0.00	7.99	0.01	141.15	112.94	26062.73	-25949.79
337+0,00	0.00	11.50	0.01	194.96	112.96	26257.70	-26144.74
338+0,00	0.00	16.07	0.00	275.69	112.96	26533.39	-26420.43
339+0,00	0.00	21.05	0.00	371.21	112.96	26904.60	-26791.65
340+0,00	0.00	25.40	0.00	464.49	112.96	27369.10	-27256.14
341+0,00	0.00	26.53	0.00	520.37	112.96	27889.46	-27776.51
342+0,00	0.00	21.58	0.00	481.06	112.96	28370.52	-28257.57
343+0,00	0.00	16.74	0.00	383.17	112.96	28753.70	-28640.74
344+0,00	0.00	12.21	0.00	289.53	112.96	29043.22	-28930.27
345+0,00	0.00	8.44	0.00	206.50	112.96	29249.72	-29136.76

64
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346+0,00	0.03	5.86	0.29	142.93	113.25	29392.65	-29279.40
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358+0,00	0.00	1.88	0.00	39.05	113.88	30184.48	-30070.60
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360+0,00	0.00	1.80	0.00	35.90	113.88	30257.06	-30143.18
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362+0,00	0.00	1.44	0.00	31.48	113.88	30323.71	-30209.83
363+0,00	0.00	2.05	0.00	34.84	113.88	30358.55	-30244.67
364+0,00	0.00	2.89	0.00	49.41	113.88	30407.96	-30294.08
365+0,00	0.00	3.26	0.00	61.56	113.88	30469.52	-30355.64
366+0,00	0.00	3.52	0.00	67.88	113.88	30537.41	-30423.52
367+0,00	0.00	3.53	0.00	70.71	113.88	30608.12	-30494.24
368+0,00	0.00	3.22	0.00	67.49	113.88	30675.61	-30561.72
369+0,00	0.00	2.87	0.00	60.92	113.88	30736.52	-30622.64
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376+0,00	0.00	3.42	0.00	55.65	113.88	31054.17	-30940.28
377+0,00	0.00	4.58	0.00	79.99	113.88	31134.15	-31020.27
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381+0,00	0.00	3.57	0.00	72.95	113.88	31465.31	-31351.43
382+0,00	0.00	2.94	0.00	65.36	113.88	31530.66	-31416.78
383+0,00	0.00	2.43	0.00	53.68	113.88	31584.35	-31470.46
384+0,00	0.00	2.15	0.00	45.78	113.88	31630.12	-31516.24
385+0,00	0.00	2.00	0.00	40.68	113.88	31670.81	-31556.92
386+0,00	0.00	2.12	0.00	41.19	113.88	31711.99	-31598.11
387+0,00	0.00	1.80	0.00	39.63	113.88	31751.63	-31637.74
388+0,00	0.00	1.30	0.00	30.96	113.88	31782.58	-31668.70
389+0,00	0.00	2.11	0.00	34.03	113.88	31816.62	-31702.73
390+0,00	0.00	2.24	0.00	43.83	113.88	31860.45	-31746.57
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392+0,00	0.00	2.79	0.00	49.55	113.88	31953.99	-31840.11
393+0,00	0.00	3.04	0.00	58.28	113.88	32012.27	-31898.39
394+0,00	0.00	2.25	0.00	52.90	113.88	32065.17	-31951.29
395+0,00	0.00	1.71	0.00	39.57	113.88	32104.74	-31990.86

65
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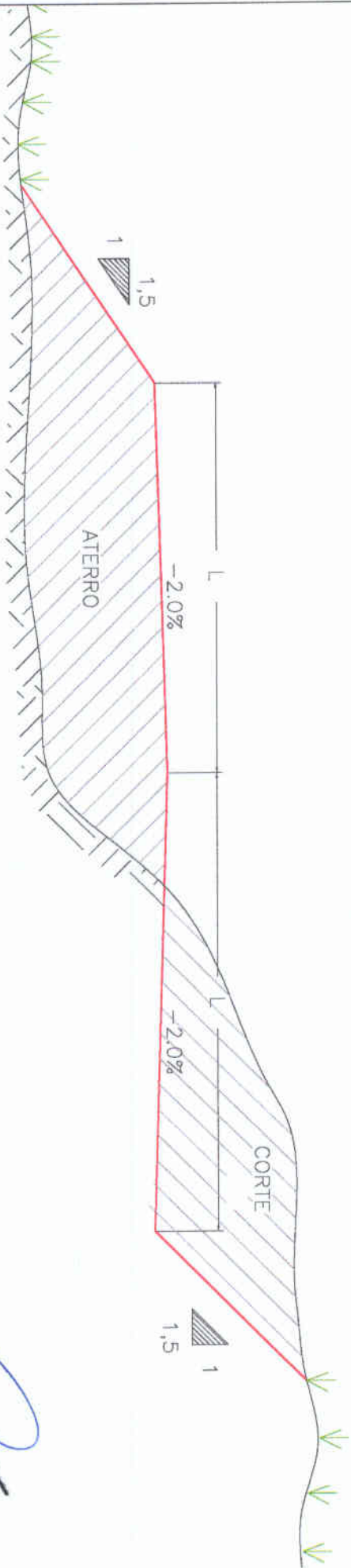


395+15,00 0.00	1.54	0.00	24.32	113.88	32129.06	-32015.18
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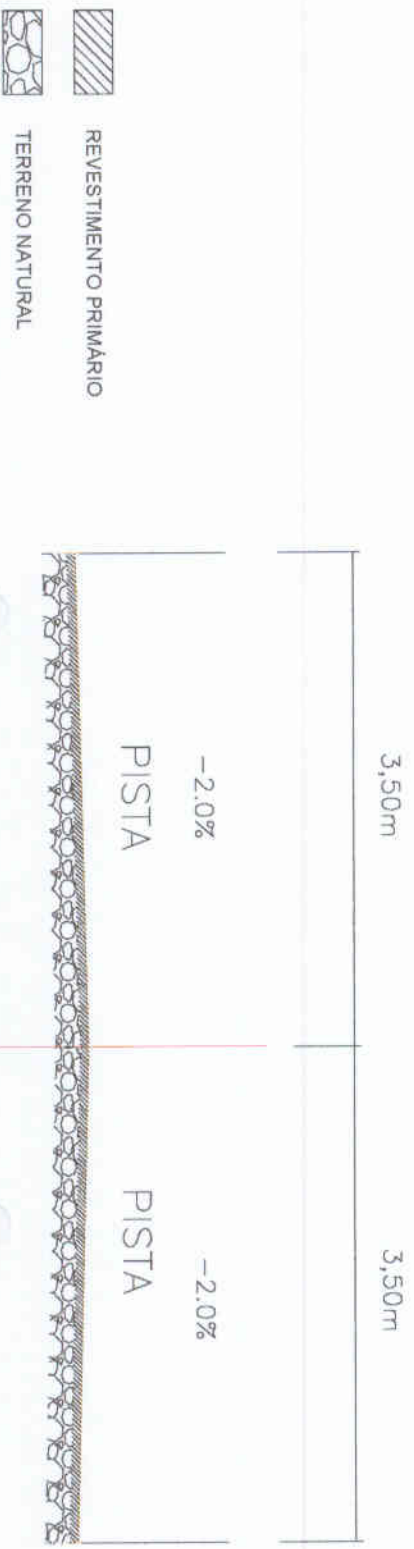
SEÇÃO TIPO DE TERRAPLENAGEM

EST. 0+0,00 A 395+15,00



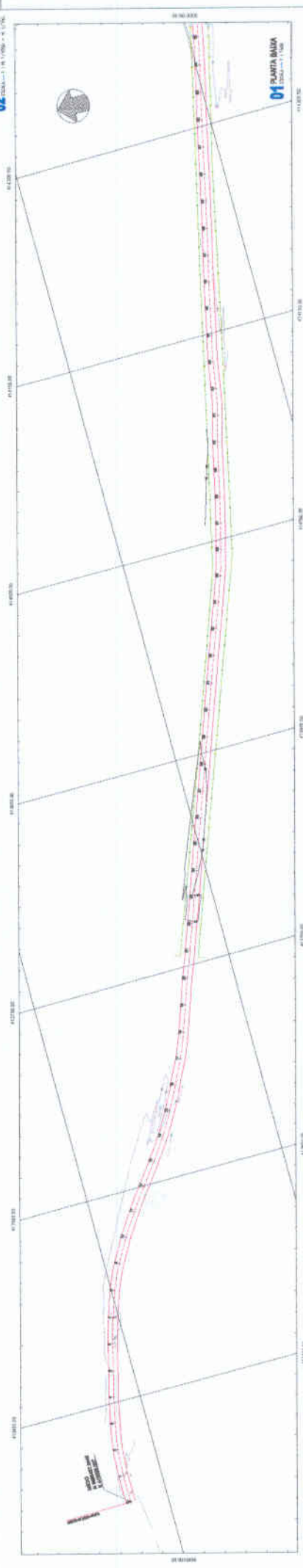
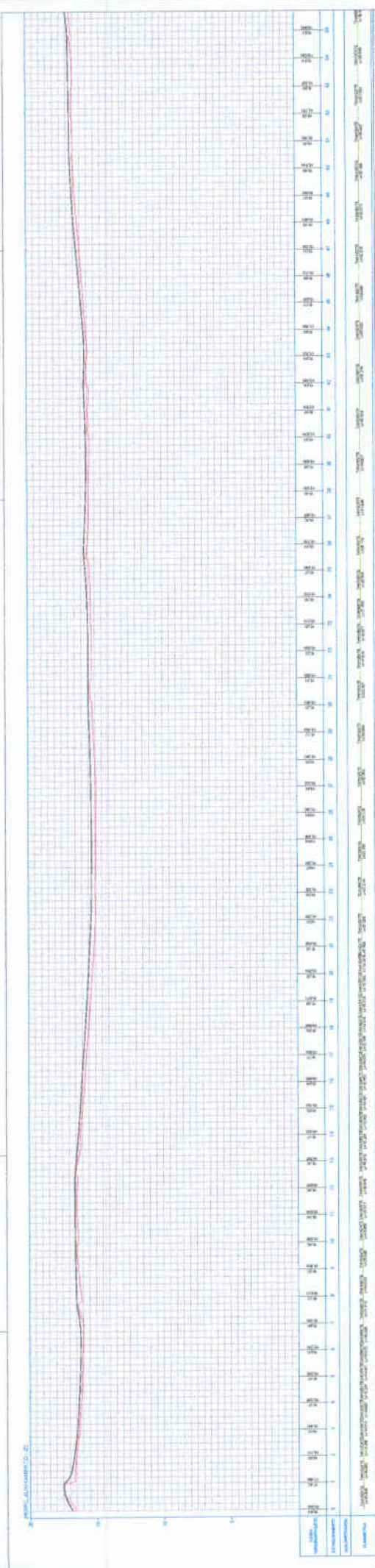
SEÇÃO TIPO DE PAVIMENTAÇÃO

EST. 0+0,00 A 395+15,00



Diogo Fernando Lima
 ENGENHEIRO CIVIL
 CREA 58373

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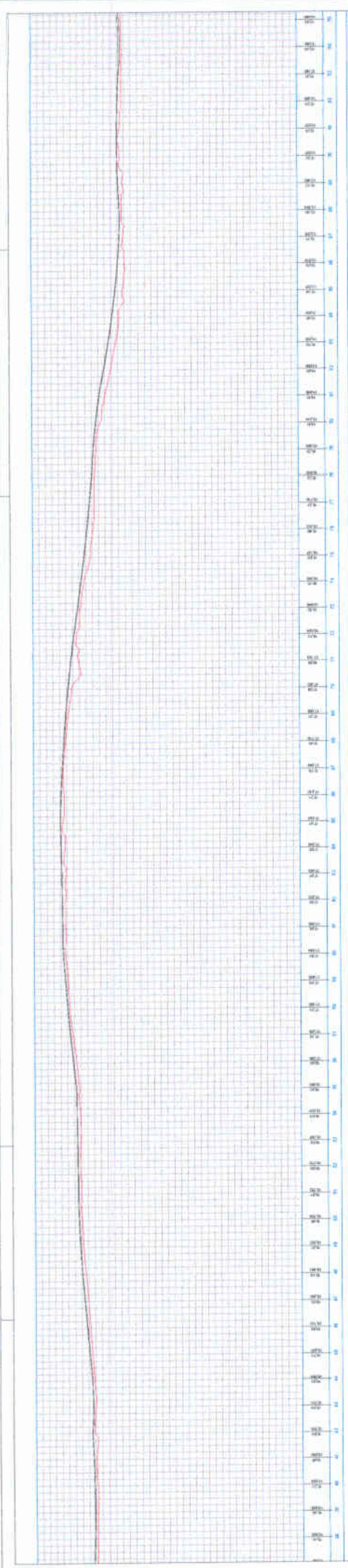


PREFEITURA MUNICIPAL DE ITAMBÉ SECRETARIA MUNICIPAL DE URBANISMO E OBRAS DEPARTAMENTO DE URBANISMO E OBRAS PLANO DE URBANIZAÇÃO DE ITAMBÉ	
PROJETO: URBANIZAÇÃO DE ITAMBÉ LOCAL: URBANIZAÇÃO DE ITAMBÉ DATA: 2023 ESCALA: 1:1000	Nº: 01/03 DATA: 2023
AUTORIZADO: PROJETO:	APROVADO: DATA:

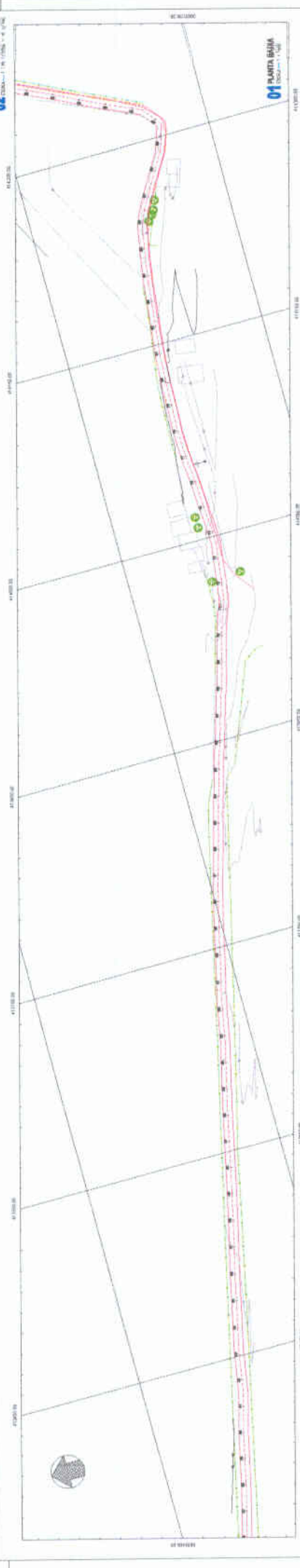


Diogo
Diogo Fernando Lima
 ENGENHEIRO CIVIL
 CREA 56373

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02 MERA LOCOMOTIVA



01 PLANTA BSIWA

PREFECTURA MUNICIPAL DE IYABELLA

CONTRATO DE OBRAS DE CONSTRUCCIÓN DE LA LÍNEA FERROVIARIA DE IYABELLA A LA ESTACION DE IYABELLA

PROYECTO DE OBRAS DE CONSTRUCCIÓN DE LA LÍNEA FERROVIARIA DE IYABELLA A LA ESTACION DE IYABELLA

ESTADO: BOLIVIA

DEPARTAMENTO: IYABELLA

MUNICIPALIDAD: IYABELLA

PROYECTO: OBRAS DE CONSTRUCCIÓN DE LA LÍNEA FERROVIARIA DE IYABELLA A LA ESTACION DE IYABELLA

FECHA: 2023

ESCALA: 1:1000

PROYECTADO POR: [Signature]

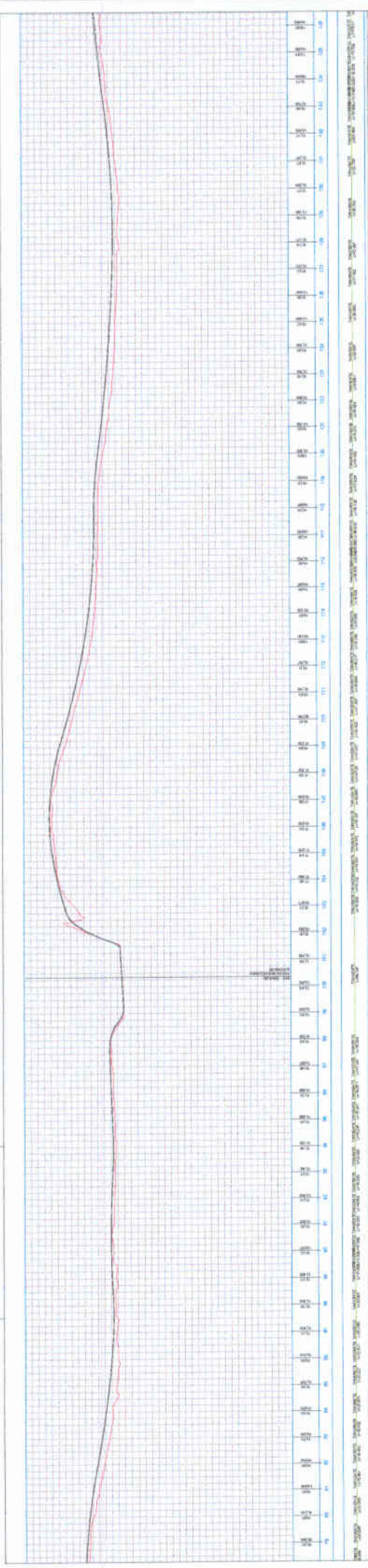
REVISADO POR: [Signature]

APROBADO POR: [Signature]




[Signature]
Diégo Fernando Lima
INGENIERO CIVIL
CREA 56373

[Signature]

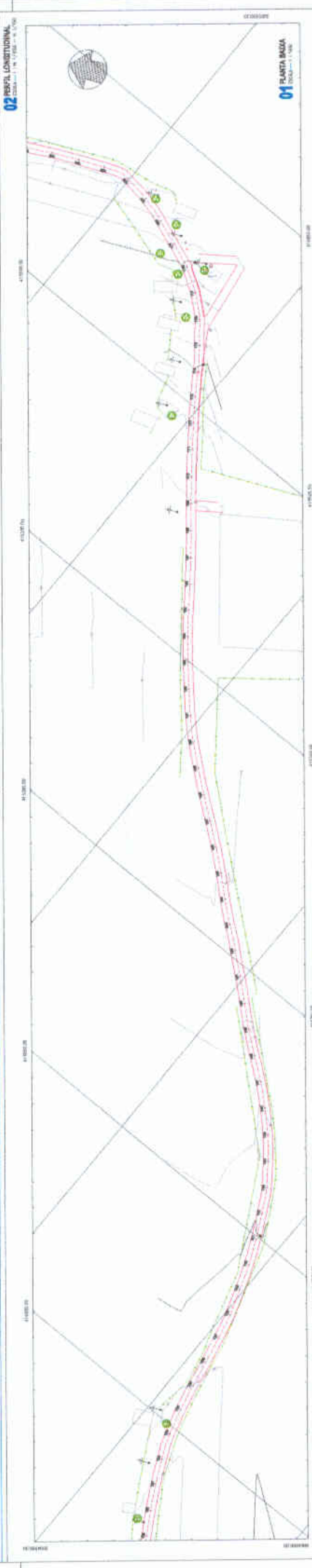
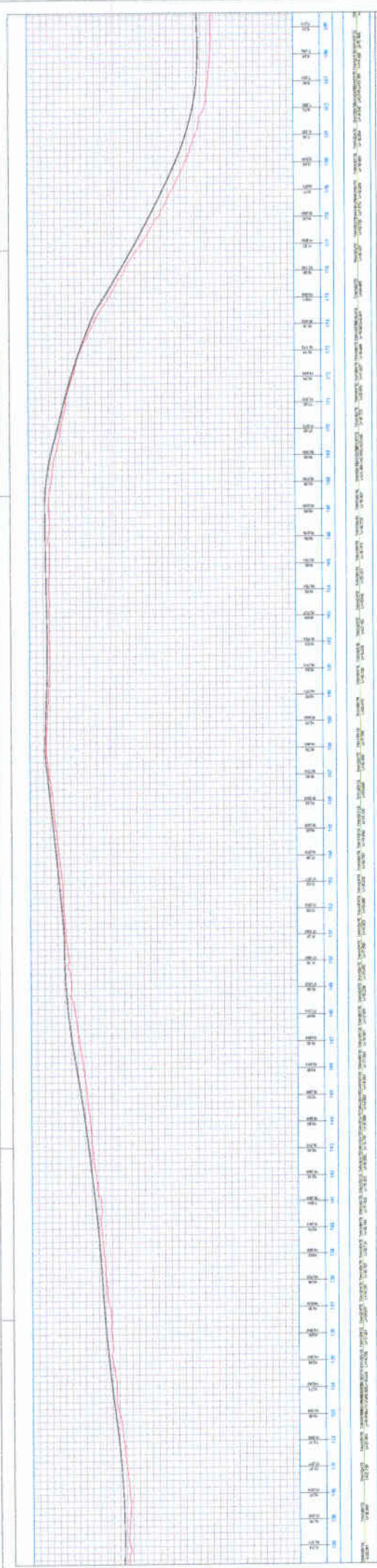


01 PLANOS PARA 2024	
TÍTULO: PROYECTO DE OBRAS DE RECONSTRUCCIÓN DEL CARRIL DE VEHICULOS EN LA AV. DE LA UNIÓN N.º 1000, ENTRE LAS AV. DE LA UNIÓN N.º 1000 Y LA AV. DE LA UNIÓN N.º 1000, EN EL DISTRITO DE SAN JUAN DE LOS RIOS, PROVINCIA DE TUMBES, PERÚ.	ESCALA: 1:500
AUTOR: ING. DIEGO FERNANDO LIMA	FECHA: 15/05/2024
CLIENTE: PREFECTURA MUNICIPAL DE TUMBES	COLORES:
PROYECTO:	MATERIAL:
FOLIO:	TOTAL:


Diego Fernando Lima
INGENIERO CIVIL
CREA 56373





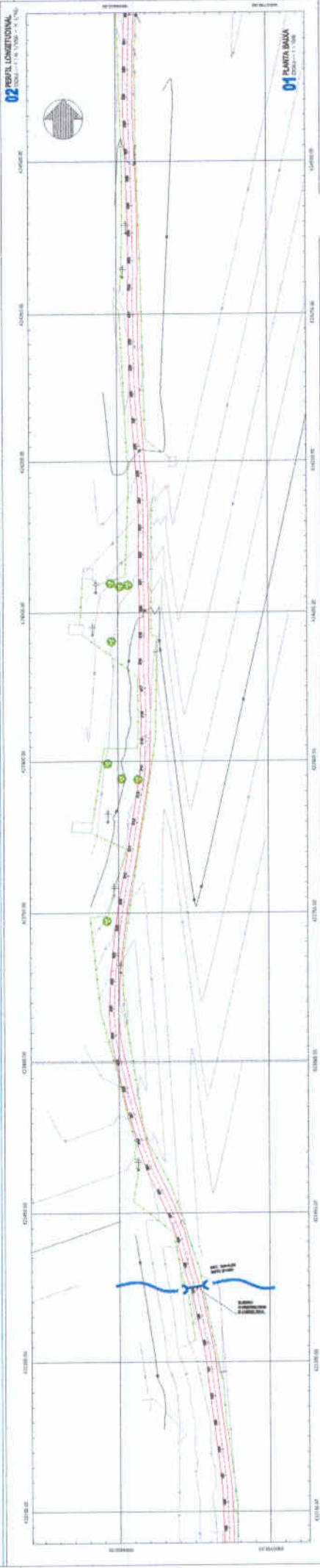
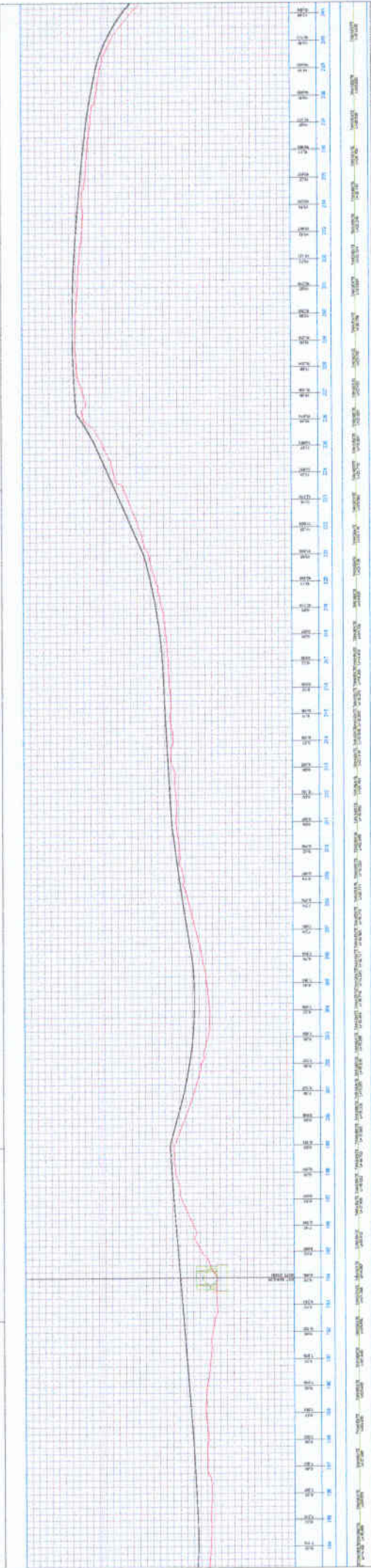


01 PLANTA ALMA Escala: 1:1000	
PREDIUM MUNICIPAL DE ITRABESIA MUNICIPALIDAD DE ITRABESIA	
INSTITUCION: MUNICIPALIDAD DE ITRABESIA DEPARTAMENTO: ICA DISTRITO: ITRABESIA PROYECTO: OBRAS DE MEJORA DEL SERVICIO DE AGUAS POTABLES EN EL DISTRITO DE ITRABESIA	
TITULO: PROYECTO DE OBRAS DE MEJORA DEL SERVICIO DE AGUAS POTABLES EN EL DISTRITO DE ITRABESIA FOLIO: 01 FECHA: 15/05/2018	
AUTORIA: INGENIERIA CIVIL DISEÑO: INGENIERIA CIVIL ELABORACION: INGENIERIA CIVIL	
DATOS PROYECTO: OBRAS DE MEJORA DEL SERVICIO DE AGUAS POTABLES EN EL DISTRITO DE ITRABESIA FOLIO: 01 FECHA: 15/05/2018	




Diago Fernando Lima
 ENGENHEIRO CIVIL
 CREA 58373


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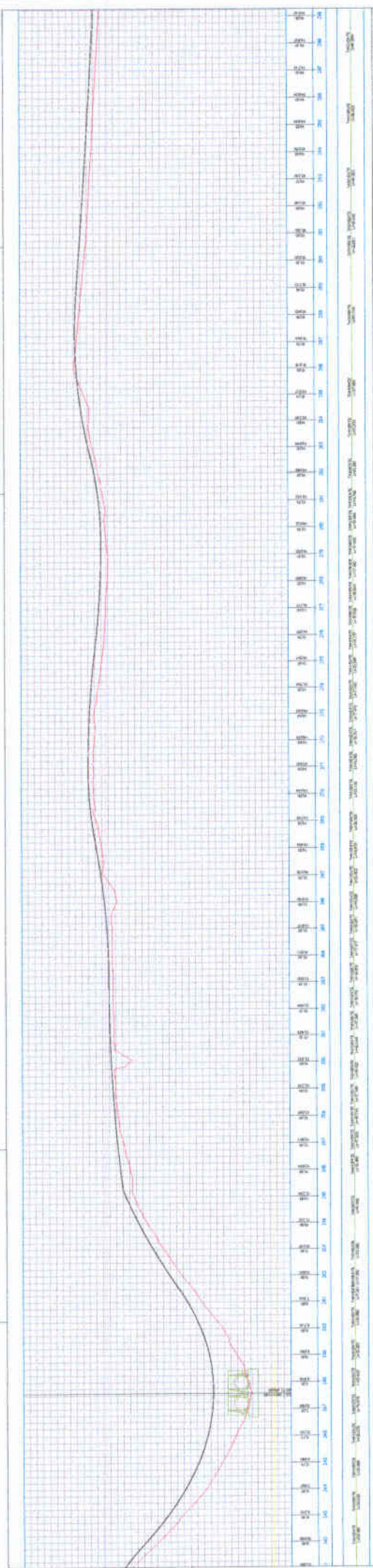
02 PERFIL LONGITUDINAL Perfil Longitudinal		01 PLANTA NOVA Planta Nova	
ESCALA: 1:500 DATA: 10/12/2014 PROJETO:		ESCALA: 1:500 DATA: 10/12/2014 PROJETO:	
LOCAL:		LOCAL:	
CLIENTE:		CLIENTE:	
PROJETO:		PROJETO:	
DATA:		DATA:	
PROJETO:		PROJETO:	

LEGENDA LINHA VERDE: ALINHAMENTO PROPOSTO LINHA VERMELHA: ALINHAMENTO EXISTENTE LINHA AZUL: EIXO DE SIMETRIA LINHA PRETA: EIXO DE SIMETRIA EXISTENTE LINHA AMARELA: EIXO DE SIMETRIA PROPOSTO LINHA ROXA: EIXO DE SIMETRIA EXISTENTE LINHA CINZELA: EIXO DE SIMETRIA PROPOSTO	LINHA VERDE: ALINHAMENTO PROPOSTO LINHA VERMELHA: ALINHAMENTO EXISTENTE LINHA AZUL: EIXO DE SIMETRIA LINHA PRETA: EIXO DE SIMETRIA EXISTENTE LINHA AMARELA: EIXO DE SIMETRIA PROPOSTO LINHA ROXA: EIXO DE SIMETRIA EXISTENTE LINHA CINZELA: EIXO DE SIMETRIA PROPOSTO
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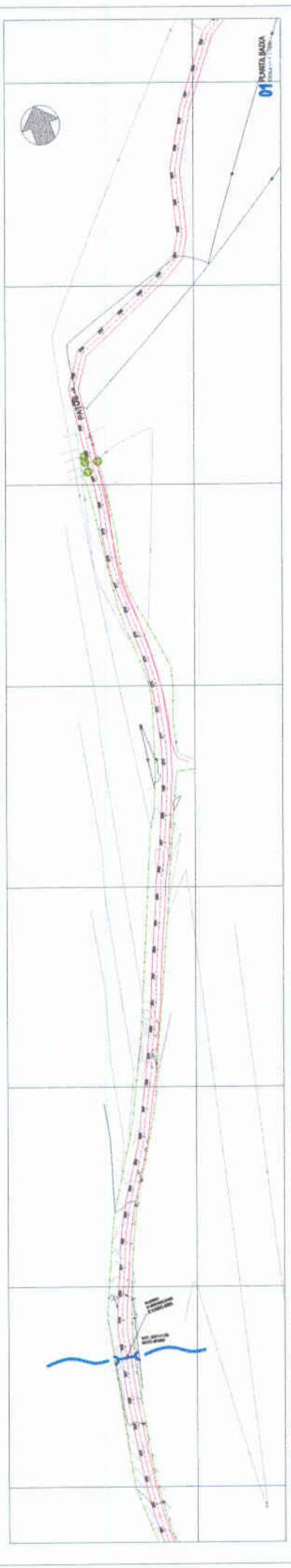

Diogo F. Lima
 ENGENHEIRO CIVIL
 CREA 58373







02 PERFIL LONGITUDINAL



01 PLANILHA

PREFETURA MUNICIPAL DE GARÇA

COMISSÃO PERMANENTE DE LICITAÇÃO

REGISTRO DE PREÇOS DE SERVIÇOS DE TERCEIROS

PROPOSTA Nº 001/2023

OBJETO: OBRAS DE RECONSTRUÇÃO DE PAVIMENTO

EMPRESA: []

DATA: []

VALOR: []

ORÇ: []

INSCRIÇÃO ESTADUAL: []

INSCRIÇÃO MUNICIPAL: []

INSCRIÇÃO FEDERAL: []

INSCRIÇÃO DE PROFISSIONAL: []

INSCRIÇÃO DE EMPRESA: []

INSCRIÇÃO DE SERVIÇO: []

INSCRIÇÃO DE PRODUTO: []

INSCRIÇÃO DE MATERIAL: []

INSCRIÇÃO DE EQUIPAMENTO: []

INSCRIÇÃO DE VEÍCULO: []

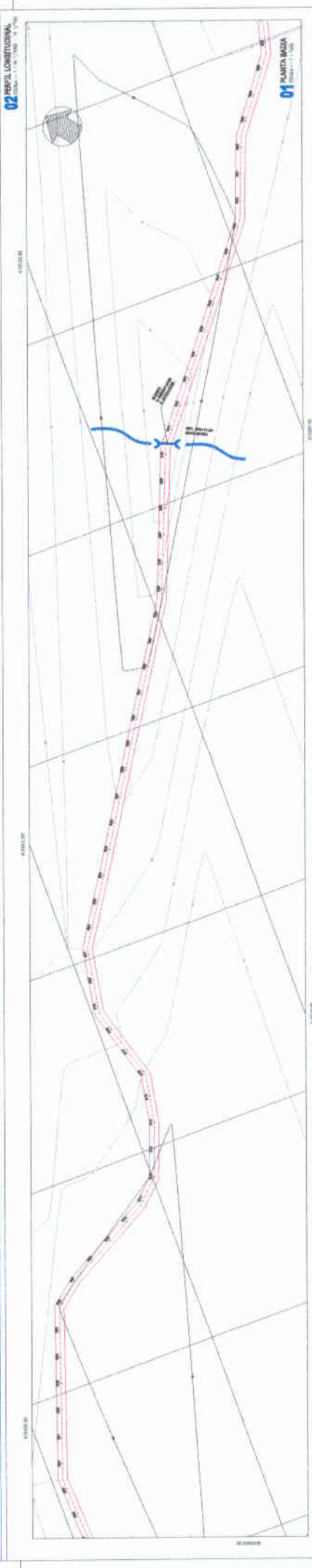
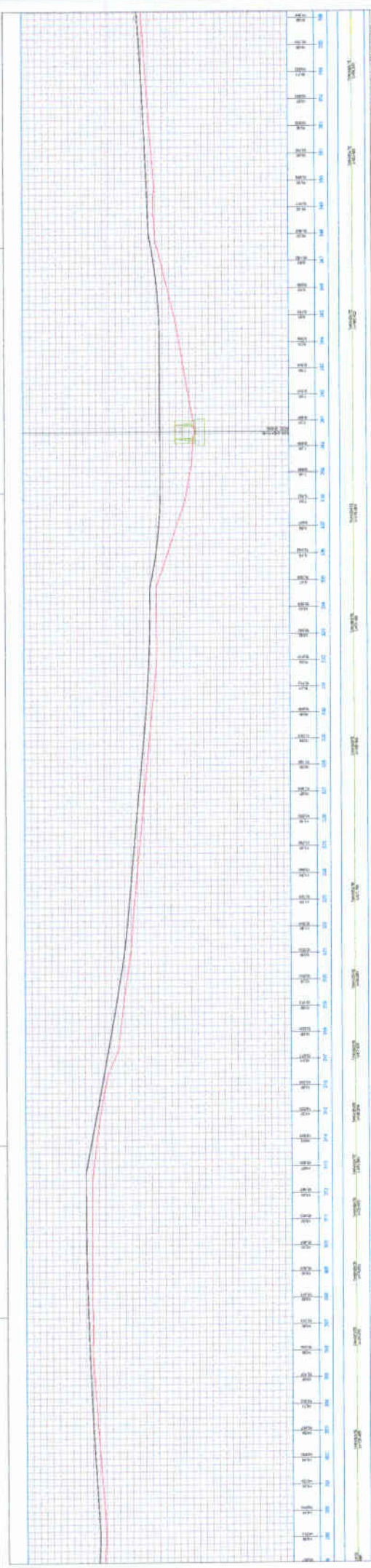
INSCRIÇÃO DE IMÓVEL: []

INSCRIÇÃO DE OUTROS: []

Diego Fernando Lima
Diego Fernando Lima
 ENGENHEIRO CIVIL
 CREA 56373



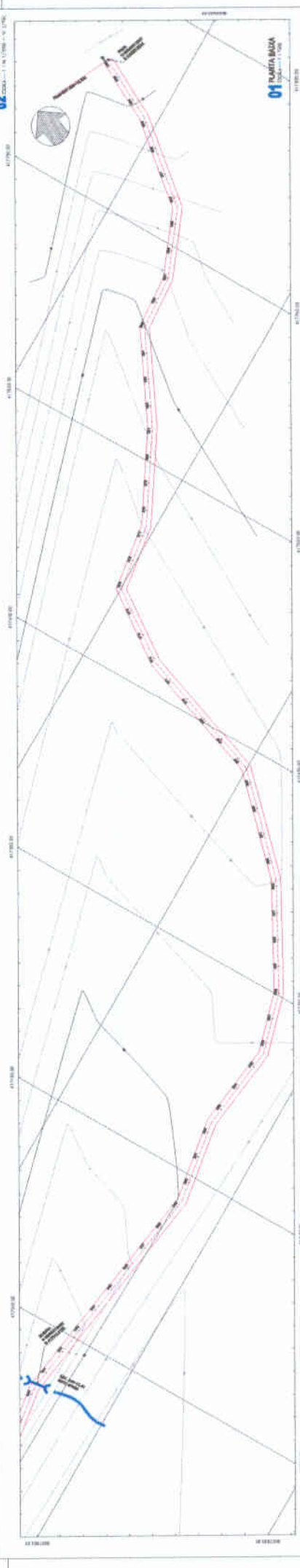
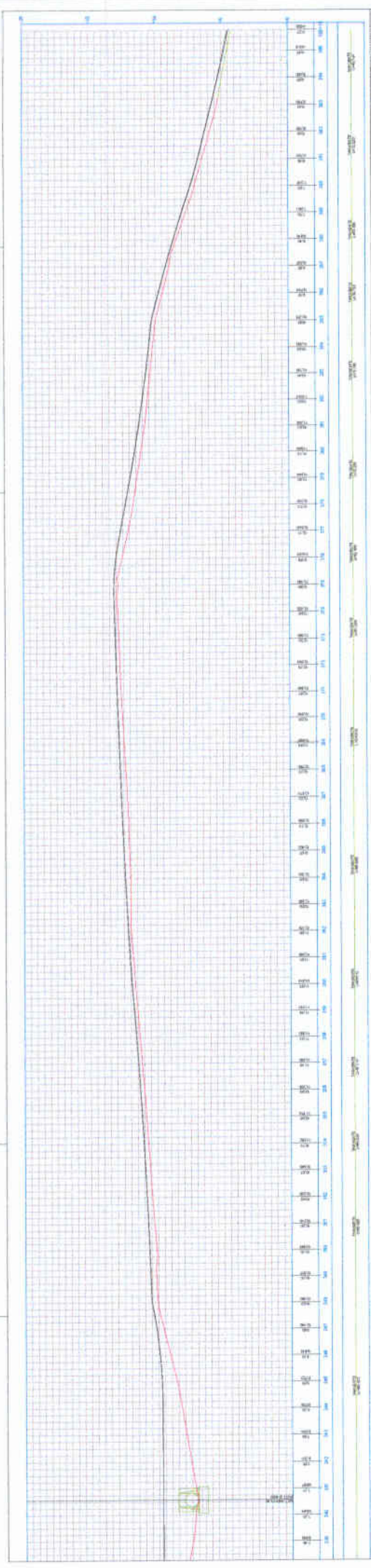
73



		PREFEITURA MUNICIPAL DE ITAREMA SECRETARIA MUNICIPAL DE OBRAS E URBANISMO DEPARTAMENTO DE PROJETOS E LICITAÇÕES	
PROPOSTA Nº	07/2018	TIPO DE LICITAÇÃO	07/2018
OBJETO	CONSTRUÇÃO DE OBRAS DE INFRAESTRUTURA URBANA	TIPO DE OBJETO	07/2018
VALOR ESTIMADO		VALOR ESTIMADO	
DATA DE ABERTURA		DATA DE ABERTURA	
DATA DE ENCERRAMENTO		DATA DE ENCERRAMENTO	

Engenheiro Civil
 Nº 53.453.73-3





MUNICIPALIDAD PROVISIONAL DE ICA DIRECCIÓN DE OBRAS PÚBLICAS Y URBANISMO	
PROYECTO:	RECONSTRUCCIÓN DEL PASEO DE LA UNIÓN
PROYECTANTE:	ING. DIEGO FERNANDO LIMA
FECHA:	15/04/2015
ESCALA:	1:1000
HOJA:	1 DE 1
PROYECTO:	RECONSTRUCCIÓN DEL PASEO DE LA UNIÓN
PROYECTANTE:	ING. DIEGO FERNANDO LIMA
FECHA:	15/04/2015
ESCALA:	1:1000
HOJA:	1 DE 1



Diego Fernando Lima
Diego Fernando Lima
 ENGENHEIRO CIVIL
 CREA 56373

DL



Anotação de Responsabilidade Técnica - ART
Lei nº 6.496, de 7 de dezembro de 1977

CREA-CE

ART OBRA / SERVIÇO
Nº CE20210788752



Conselho Regional de Engenharia e Agronomia do Ceará

INICIAL

1. Responsável Técnico

DIEGO FERNANDO LIMA SILVA

Título profissional: ENGENHEIRO CIVIL, PÓS-GRAD. EM INFRAESTRUTURA DE TRANSPORTES E RODOVIAS, PÓS-GRADUAÇÃO EM PLANEJAMENTO E GESTÃO DE OBRAS CIVIS, ENGENHEIRO DE SEGURANÇA DO TRABALHO

RNP: 0614464544
Registro: 56373CE

2. Dados do Contrato

Contratante: PREFEITURA MUNICIPAL DE ITAREMA
RUA PRAÇA NOSSA SENHORA DE FÁTIMA
Complemento:
Cidade: ITAREMA

Bairro: CENTRO
UF: CE

CPF/CNPJ: 07.663.941/0001-54
Nº: 48
CEP: 62590000

Contrato: SICONV 887643

Celebrado em: 06/10/2020

Valor: R\$ 5.500,00

Tipo de contratante: Pessoa Jurídica de Direito Privado

Ação Institucional: NENHUMA - NÃO OPTANTE

3. Dados da Obra/Serviço

RUA PRAÇA NOSSA SENHORA DE FÁTIMA

Nº: S/N

Complemento: ACESSO A ORLA DA PRAIA DE PATOS
Cidade: ITAREMA

Bairro: CENTRO
UF: CE

CEP: 62590000

Data de Início: 06/10/2020

Previsão de término: 06/10/2022

Coordenadas Geográficas: -2.920691, -39.914829

Finalidade: Infraestrutura

Código: Não Especificado

Proprietário: PREFEITURA MUNICIPAL DE ITAREMA

CPF/CNPJ: 07.663.941/0001-54

4. Atividade Técnica

	Quantidade	Unidade
15 - Elaboração		
80 - Projeto > TRANSPORTES > INFRAESTRUTURA URBANA > DE PAVIMENTAÇÃO > #4.2.1.2 - ASFÁLTICA PARA VIAS URBANAS	7,91	km
80 - Projeto > TRANSPORTES > SINALIZAÇÃO > DE SINALIZAÇÃO > #4.9.1.3 - REGIONAL	7,91	km
80 - Projeto > TRANSPORTES > SINALIZAÇÃO > DE SINALIZAÇÃO > #4.9.1.5 - RODOVIÁRIA	7,91	km
35 - Elaboração de orçamento > TRANSPORTES > INFRAESTRUTURA URBANA > DE PAVIMENTAÇÃO > #4.2.1.2 - ASFÁLTICA PARA VIAS URBANAS	7,91	km
19 - Fiscalização		
49 - Execução de obra > TRANSPORTES > INFRAESTRUTURA URBANA > DE PAVIMENTAÇÃO > #4.2.1.2 - ASFÁLTICA PARA VIAS URBANAS	7,91	km

Após a conclusão das atividades técnicas o profissional deve proceder a baixa desta ART

5. Observações

ART DE PROJETO, ACESSIBILIDADE, ORÇAMENTO, FISCALIZAÇÃO, E SINALIZAÇÃO DA PAVIMENTAÇÃO (CUBUQ) DE ACESSO A ORLA DA PRAIA DE PATOS, NO MUNICÍPIO DE ITAREMA.

6. Declarações

- Declaro que estou cumprindo as regras de acessibilidade previstas nas normas técnicas da ABNT, na legislação específica e no decreto n. 5296/2004.

7. Entidade de Classe

NENHUMA - NÃO OPTANTE

8. Assinaturas

Declaro serem verdadeiras as informações acima

_____ de _____ de _____
Local data

DIEGO FERNANDO LIMA SILVA - CPF: 022.224.053-94

Melissa Sousa
PREFEITURA MUNICIPAL DE ITAREMA - CNPJ: 07.663.941/0001-54
Set. Infraestr. Mobild. e Serv. Públicos
Per. Nº 003/2021

9. Informações

* A ART é válida somente quando quitada, mediante apresentação do comprovante do pagamento ou conferência no site do Crea.

10. Valor

Valor da ART: R\$ 88,78 Registrada em: 11/05/2021 Valor pago: R\$ 88,78 Nosso Número: 8214675681

A autenticidade desta ART pode ser verificada em: <https://crea-ce.sitac.com.br/publcoo/>, com a chave: Y9A2x
Impresso em: 12/05/2021 às 08:45:06 por: ip: 177.56.183.218

www.crea-ce.org.br
Tel: (85) 3453-5800

faleconosco@crea-ce.org.br
Fax: (85) 3453-5804

CREA-CE
Conselho Regional de Engenharia e Agronomia do Ceará



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