

Nota de Serviço

MORRO CARRARD MORRO CARRARD 0+000.000 1+425.937

Lado Esquerdo															Estaca
JUNTA			VALETA_IN			OFFSET			OFFSET_SUB			BORDO_SUB-BASE			
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	
0+000.000			369.275	369.275	0.000										
-5.292	365.946	100.00	-4.792	365.446	-66.67	-5.570	366.224	100.00	-4.042	365.946	-2.00	-3.250	365.962	-1.92	
-5.301	363.177	100.00	-4.801	362.677	-66.67	-6.453	364.329	100.00	-4.051	363.177	-2.00	-3.250	363.193	0.49	
-5.297	361.802	100.00	-4.797	361.302	-66.67	-6.066	362.571	100.00	-4.047	361.802	-2.00	-3.250	361.818	-0.42	
-5.283	360.337	100.00	-4.783	359.837	-66.67	-5.824	360.878	100.00	-4.033	360.337	-2.00	-3.250	360.353	-4.10	
-5.305	358.733	100.00	-4.805	358.233	-66.67	-5.338	358.765	100.00	-4.055	358.733	-2.00	-3.250	358.749	1.57	
-5.304	355.175	100.00	-4.804	354.675	-66.67	-5.627	355.498	100.00	-4.054	355.175	-2.00	-3.250	355.191	1.20	
-5.282	351.992	100.00	-4.782	351.492	-66.67	-5.857	352.567	100.00	-4.032	351.992	-2.00	-3.250	352.008	-4.27	
-5.283	350.095	100.00	-4.783	349.595	-66.67	-5.707	350.519	100.00	-4.033	350.095	-2.00	-3.250	350.110	-4.22	
-5.283	348.441	100.00	-4.783	347.941	-66.67	-5.807	348.965	100.00	-4.033	348.441	-2.00	-3.250	348.457	-4.17	
-5.283	346.647	100.00	-4.783	346.147	-66.67	-5.938	347.302	100.00	-4.033	346.647	-2.00	-3.250	346.663	-4.12	
-5.283	344.336	100.00	-4.783	343.836	-66.67	-6.145	345.198	100.00	-4.033	344.336	-2.00	-3.250	344.351	-4.07	
-5.283	341.754	100.00	-4.783	341.254	-66.67	-6.210	342.681	100.00	-4.033	341.754	-2.00	-3.250	341.770	-4.02	
-5.284	339.688	100.00	-4.784	339.188	-66.67	-6.183	340.588	100.00	-4.034	339.688	-2.00	-3.250	339.704	-3.97	
-5.284	338.097	100.00	-4.784	337.597	-66.67	-6.054	338.867	100.00	-4.034	338.097	-2.00	-3.250	338.113	-3.92	
-5.284	336.544	100.00	-4.784	336.044	-66.67	-5.988	337.248	100.00	-4.034	336.544	-2.00	-3.250	336.560	-3.87	
-5.284	335.006	100.00	-4.784	334.506	-66.67	-6.057	335.779	100.00	-4.034	335.006	-2.00	-3.250	335.022	-3.82	
-5.284	333.835	100.00	-4.784	333.335	-66.67	-6.009	334.559	100.00	-4.034	333.835	-2.00	-3.250	333.850	-3.77	
-5.285	333.176	100.00	-4.785	332.676	-66.67	-5.778	333.669	100.00	-4.035	333.176	-2.00	-3.250	333.192	-3.72	
-5.285	333.030	100.00	-4.785	332.530	-66.67	-5.608	333.353	100.00	-4.035	333.030	-2.00	-3.250	333.046	-3.67	
-5.285	333.393	100.00	-4.785	332.893	-66.67	-5.654	333.762	100.00	-4.035	333.393	-2.00	-3.250	333.408	-3.62	
-5.285	333.716	100.00	-4.785	333.216	-66.67	-5.768	334.199	100.00	-4.035	333.716	-2.00	-3.250	333.732	-3.57	
-5.285	333.439	100.00	-4.785	332.939	-66.67	-5.722	333.876	100.00	-4.035	333.439	-2.00	-3.250	333.455	-3.52	
-5.286	332.557	100.00	-4.786	332.057	-66.67	-5.678	332.950	100.00	-4.036	332.557	-2.00	-3.250	332.573	-3.47	
-5.286	331.226	100.00	-4.786	330.726	-66.67	-5.619	331.559	100.00	-4.036	331.226	-2.00	-3.250	331.241	-3.42	
-5.286	329.808	100.00	-4.786	329.308	-66.67	-5.848	330.370	100.00	-4.036	329.808	-2.00	-3.250	329.824	-3.37	
-5.286	328.149	100.00	-4.786	327.649	-66.67	-5.892	328.755	100.00	-4.036	328.149	-2.00	-3.250	328.164	-3.32	
-5.286	326.294	100.00	-4.786	325.794	-66.67	-5.994	327.001	100.00	-4.036	326.294	-2.00	-3.250	326.310	-3.27	
-5.287	324.973	100.00	-4.787	324.473	-66.67	-6.128	325.814	100.00	-4.037	324.973	-2.00	-3.250	324.989	-3.22	
-5.287	324.541	100.00	-4.787	324.041	-66.67	-6.061	325.316	100.00	-4.037	324.541	-2.00	-3.250	324.557	-3.17	
-5.287	324.760	100.00	-4.787	324.260	-66.67	-5.972	325.445	100.00	-4.037	324.760	-2.00	-3.250	324.776	-3.12	
-5.287	325.012	100.00	-4.787	324.512	-66.67	-5.997	325.721	100.00	-4.037	325.012	-2.00	-3.250	325.027	-3.07	
-5.287	325.219	100.00	-4.787	324.719	-66.67	-5.958	325.890	100.00	-4.037	325.219	-2.00	-3.250	325.235	-3.01	
-5.288	324.893	100.00	-4.788	324.393	-66.67	-5.782	325.388	100.00	-4.038	324.893	-2.00	-3.250	324.909	-2.96	
-5.288	323.896	100.00	-4.788	323.396	-66.67	-5.934	324.541	100.00	-4.038	323.896	-2.00	-3.250	323.911	-2.91	
-5.288	322.355	100.00	-4.788	321.855	-66.67	-5.860	322.927	100.00	-4.038	322.355	-2.00	-3.250	322.371	-2.86	
-5.288	321.040	100.00	-4.788	320.540	-66.67	-5.637	321.388	100.00	-4.038	321.040	-2.00	-3.250	321.055	-2.81	
-5.288	320.276	100.00	-4.788	319.776	-66.67	-5.689	320.677	100.00	-4.038	320.276	-2.00	-3.250	320.292	-2.76	
-5.288	320.059	100.00	-4.788	319.559	-66.67	-5.778	320.548	100.00	-4.038	320.059	-2.00	-3.250	320.075	-2.71	
-5.289	320.040	100.00	-4.789	319.540	-66.67	-6.064	320.815	100.00	-4.039	320.040	-2.00	-3.250	320.056	-2.66	
-5.289	320.022	100.00	-4.789	319.522	-66.67	-6.219	320.952	100.00	-4.039	320.022	-2.00	-3.250	320.037	-2.61	
-5.289	319.793	100.00	-4.789	319.293	-66.67	-5.982	320.486	100.00	-4.039	319.793	-2.00	-3.250	319.809	-2.56	
-5.289	318.896	100.00	-4.789	318.396	-66.67	-6.059	319.665	100.00	-4.039	318.896	-2.00	-3.250	318.912	-2.51	
-5.289	317.314	100.00	-4.789	316.814	-66.67	-6.813	318.838	100.00	-4.039	317.314	-2.00	-3.250	317.330	-2.46	
-5.290	315.048	100.00	-4.790	314.548	-66.67	-6.200	315.958	100.00	-4.040	315.048	-2.00	-3.250	315.064	-2.41	
-5.290	312.108	100.00	-4.790	311.608	-66.67	-5.931	312.749	100.00	-4.040	312.108	-2.00	-3.250	312.124	-2.36	
-5.290	309.288	100.00	-4.790	308.788	-66.67	-6.116	310.114	100.00	-4.040	309.288	-2.00	-3.250	309.304	-2.31	
-5.290	306.699	100.00	-4.790	306.199	-66.67	-6.079	307.488	100.00	-4.040	306.699	-2.00	-3.250	306.715	-2.26	
-5.290	304.144	100.00	-4.790	303.644	-66.67	-6.275	305.129	100.00	-4.040	304.144	-2.00	-3.250	304.160	-2.21	
-5.291	301.864	100.00	-4.791	301.364	-66.67	-6.066	302.640	100.00	-4.041	301.864	-2.00	-3.250	301.880	-2.16	
-5.291	299.907	100.00	-4.791	299.407	-66.67	-6.012	300.628	100.00	-4.041	299.907	-2.00	-3.250	299.922	-2.11	
-5.291	298.242	100.00	-4.791	297.742	-66.67	-5.909	298.860	100.00	-4.041	298.242	-2.00	-3.250	298.258	-2.06	
-5.291	296.630	100.00	-4.791	296.130	-66.67	-5.893	297.232	100.00	-4.041	296.630	-2.00	-3.250	296.646	-2.01	
-5.322	294.792	100.00	-4.822	294.292	-66.67	-5.795	295.265	100.00	-4.072	294.792	-2.00	-3.250	294.809	6.00	
-5.322	291.248	100.00	-4.822	290.748	-66.67	-5.843	291.768	100.00	-4.072	291.248	-2.00	-3.250	291.264	6.00	
						-4.128	287.171	-66.67	-4.072	287.208	-2.00	-3.250	287.224	6.00	
						-4.722	282.841	-66.67	-4.072	283.274	-2.00	-3.250	283.290	6.00	
						-5.233	278.659	-66.67	-4.067	279.437	-2.00	-3.250	279.453	4.54	
						-5.260	274.875	-66.67	-4.053	275.679	-2.00	-3.250	275.695	1.08	
						-5.203	271.357	-66.67	-4.047	272.127	-2.00	-3.250	272.143	-0.49	
						-5.426	267.916	-66.67	-4.054	268.831	-2.00	-3.250	268.847	1.37	
						-4.642	265.004	-66.67	-4.030	265.413	-2.00	-3.250	265.428	-4.96	
-5.287	262.405	100.00	-4.787	261.905	-66.67	-5.496	262.614	100.00	-4.037	262.405	-2.00	-3.250	262.421	-3.09	
-5.299	259.582	100.00	-4.799	259.082	-66.67	-5.844	260.126	100.00	-4.049	259.582	-2.00	-3.250	259.598	0.01	
-5.318	256.958	100.00	-4.818	256.458	-66.67	-5.443	257.083	100.00	-4.068	256.958	-2.00	-3.250	256.975	4.83	
						-6.565	25252.								

Eixo				
Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha
		366.414	366.291	0.123
		363.567	364.202	-0.635
		362.222	362.461	-0.240
	PCV	360.876	360.871	0.006
	PCV	359.088	359.185	-0.097
		355.542	355.483	0.059
	PTV	352.536	352.529	0.007
		350.637	350.665	-0.027
	PCV	348.982	348.937	0.046
		347.187	347.184	0.003
	PCV	344.874	344.889	-0.015
		342.290	342.349	-0.059
	PTV	340.223	340.406	-0.182
		338.630	338.618	0.012
	PCV	337.075	337.259	-0.184
		335.536	335.558	-0.022
		334.363	334.437	-0.074
		333.702	333.827	-0.125
	PTV	333.555	333.529	0.026
	PCV	333.916	333.916	0.000
		334.238	334.226	0.012
		333.959	333.952	0.008
	PTV	333.076	333.089	-0.013
	PCV	331.742	331.699	0.043
		330.323	330.370	-0.046
	PCV	328.662	328.600	0.062
		326.806	326.466	0.340
		325.483	325.452	0.031
	PTV	325.050	325.376	-0.326
		325.267	325.365	-0.098
	PCV	325.517	325.513	0.004
		325.723	325.680	0.042
		325.395	325.390	0.005
	PTV	324.396	324.401	-0.005
	PCV	322.854	322.846	0.008
		321.537	321.326	0.211
	PTV	320.772	320.622	0.150
		320.553	320.436	0.117
		320.533	320.510	0.023
	PCV	320.512	320.499	0.013
		320.282	320.210	0.072
		319.383	319.434	-0.051
		317.800	318.174	-0.374
	PTV	315.532	315.769	-0.237
	PTV	312.591	312.584	0.007
		309.769	309.772	-0.003
	PCV	307.178	307.202	-0.023
		304.622	304.573	0.049
		302.340	302.337	0.003
	PTV	300.381	300.329	0.052
		298.715	298.711	0.004
	PCV	297.101	297.137	-0.036
	PTV	295.004	294.997	0.007
	PCV	291.459	291.486	-0.027
		287.419	287.245	0.174
		283.485	283.158	0.327
		279.696	279.085	0.611
		276.050	275.176	0.874
		272.549	271.534	1.015
		269.192	268.264	0.928
		265.980	265.392	0.588
		262.911	263.047	-0.135
		259.987	260.544	-0.556
		257.208	257.478	-0.270
		254.572	253.741	0.832
		252.081	250.989	1.093
		249.735	249.061	0.674
		247.532	247.516	0.016
	PTV	245.474	245.718	-0.244
		243.557	243.414	0.143
		241.685	241.705	-0.020
		241.129	241.129	0.000

Lado Direito																	
COROAMENTO SUB-BASE			BORDO SUB-BASE			OFFSET SUB			VALETA_IN			JUNTA			OFFSET		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
0.000	366.024	-3.59	3.250	365.957	-2.08	4.041	365.941	-2.00	4.791	365.441	-66.67	5.291	365.941	100.00	6.491	367.141	100.00
0.000	363.177	-17.85	3.250	363.037	-4.30	4.032	363.022	-2.00	4.782	362.522	-66.67	5.282	363.022	100.00	7.509	365.249	100.00
0.000	361.832	-12.19	3.250	361.845	0.42	4.051	361.829	-2.00	4.801	361.329	-66.67	5.301	361.829	100.00	6.636	363.164	100.00
0.000	360.486	-6.73	3.250	360.620	4.10	4.065	360.603	-2.00	4.815	360.103	-66.67	5.315	360.603	100.00	6.091	361.380	100.00
0.000	358.698	-1.27	3.250	358.647	-1.57	4.043	358.631	-2.00	4.793	358.131	-66.67	5.293	358.631	100.00	6.361	359.699	100.00
0.000	355.152	-6.15	3.250	355.113	-1.20	4.044	355.097	-2.00	4.794	354.597	-66.67	5.294	355.097	100.00	6.587	356.390	100.00
0.000	352.146	-7.17	3.250	352.187	1.24	4.054	352.171	-2.00	4.804	351.671	-66.67	5.304	352.171	100.00	6.880	353.747	100.00
0.000	350.247	-4.76	3.250	350.248	0.02	4.049	350.232	-2.00	4.799	349.732	-66.67	5.299	350.232	100.00	7.014	351.947	100.00
0.000	348.592	-6.42	3.250	348.553	-1.21	4.044	348.537	-2.00	4.794	348.037	-66.67	5.294	348.537	100.00	6.984	350.227	100.00
0.000	346.797	-8.51	3.250	346.861	1.97	4.057	346.844	-2.00	4.807	346.344	-66.67	5.307	346.844	100.00	6.380	347.918	100.00
0.000	344.484	-11.62	3.250	344.545	1.87	4.056	344.528	-2.00	4.806	344.028	-66.67	5.306	344.528	100.00	6.274	345.497	100.00
0.000	341.900	-12.57	3.250	341.958	1.78	4.056	341.942	-2.00	4.806	341.442	-66.67	5.306	341.942	100.00	6.693	343.329	100.00
0.000	339.833	-12.20	3.250	339.888	1.69	4.055	339.872	-2.00	4.805	339.372	-66.67	5.305	339.872	100.00	7.520	342.087	100.00
0.000	338.240	-10.35	3.250	338.292	1.59	4.055	338.276	-2.00	4.805	337.776	-66.67	5.305	338.276	100.00	7.347	340.318	100.00
0.000	336.685	-9.39	3.250	336.734	1.50	4.055	336.718	-2.00	4.805	336.218	-66.67	5.305	336.718	100.00	6.951	338.364	100.00
0.000	335.146	-10.45	3.250	335.191	1.40	4.054	335.175	-2.00	4.804	334.675	-66.67	5.304	335.175	100.00	6.550	336.421	100.00
0.000	333.973	-9.76	3.250	334.015	1.31	4.054	333.999	-2.00	4.804	333.499	-66.67	5.304	333.999	100.00	6.136	334.831	100.00
0.000	333.312	-6.17	3.250	333.352	1.22	4.054	333.336	-2.00	4.804	332.836	-66.67	5.304	333.336	100.00	5.777	333.809	100.00
0.000	333.165	-3.35	3.250	333.201	1.12	4.053	333.185	-2.00							4.065	333.178	-66.67
0.000	333.526	-4.17	3.250	333.559	1.03	4.053	333.543	-2.00	4.803	333.043	-66.67	5.303	333.543	100.00	5.661	333.901	100.00
0.000	333.848	-6.09	3.250	333.878	0.93	4.053	333.862	-2.00	4.803	333.362	-66.67	5.303	333.862	100.00	5.803	334.362	100.00
0.000	333.569	-5.36	3.250	333.596	0.84	4.052	333.580	-2.00	4.802	333.080	-66.67	5.302	333.580	100.00	5.806	334.084	100.00
0.000	332.686	-4.66	3.250	332.710	0.75	4.052	332.694	-2.00	4.802	332.194	-66.67	5.302	332.694	100.00	6.141	333.533	100.00
0.000	331.352	-3.68	3.250	331.374	0.65	4.051	331.357	-2.00	4.801	330.857	-66.67	5.301	331.357	100.00	6.473	332.529	100.00
0.000	329.933	-7.48	3.250	329.951	0.56	4.051	329.935	-2.00	4.801	329.435	-66.67	5.301	329.935	100.00	6.838	331.472	100.00
0.000	328.272	-8.19	3.250	328.287	0.46	4.051	328.271	-2.00	4.801	327.771	-66.67	5.301	328.271	100.00	6.568	329.538	100.00
0.000	326.416	-9.77	3.250	326.428	0.37	4.050	326.412	-2.00	4.800	325.912	-66.67	5.300	326.412	100.00	5.711	326.823	100.00
0.000	325.093	-11.76	3.250	325.102	0.28	4.050	325.086	-2.00	4.800	324.586	-66.67	5.300	325.086	100.00	6.002	325.788	100.00
0.000	324.660	-10.82	3.250	324.666	0.18	4.050	324.650	-2.00	4.800	324.150	-66.67	5.300	324.650	100.00	6.238	325.588	100.00
0.000	324.877	-9.51	3.250	324.880	0.09	4.049	324.864	-2.00	4.799	324.364	-66.67	5.299	324.864	100.00	6.023	325.588	100.00
0.000	325.127	-9.91	3.250	325.127	-0.01	4.049	325.111	-2.00	4.799	324.611	-66.67	5.299	325.111	100.00	6.058	325.870	100.00
0.000	325.333	-9.35	3.250	325.330	-0.10	4.049	325.314	-2.00	4.799	324.814	-66.67	5.299	325.314	100.00	5.954	325.970	100.00
0.000	325.005	-6.62	3.250	324.999	-0.19	4.048	324.983	-2.00	4.798	324.483	-66.67	5.298	324.983	100.00	6.080	325.765	100.00
0.000	324.006	-9.02	3.250	323.997	-0.29	4.048	323.981	-2.00	4.798	323.481	-66.67	5.298	323.981	100.00	6.389	325.072	100.00
0.000	322.464	-7.91	3.250	322.452	-0.38	4.047	322.436	-2.00	4.797	321.936	-66.67	5.297	322.436	100.00	6.232	323.370	100.00
0.000	321.147	-4.28	3.250	321.131	-0.48	4.047	321.115	-2.00	4.797	320.615	-66.67	5.297	321.115	100.00	5.562	321.380	100.00
0.000	320.382	-5.19	3.250	320.363	-0.57	4.047	320.348	-2.00	4.797	319.848	-66.67	5.297	320.348	100.00	5.625	320.675	100.00
0.000	320.163	-6.67	3.250	320.141	-0.66	4.046	320.125	-2.00	4.796	319.625	-66.67	5.296	320.125	100.00	5.497	320.326	100.00
0.000	320.143	-11.09	3.250	320.118	-0.76	4.046	320.102	-2.00	4.796	319.602	-66.67	5.296	320.102	100.00	6.218	321.024	100.00
0.000	320.122	-13.34	3.250	320.095	-0.85	4.046	320.079	-2.00	4.796	319.579	-66.67	5.296	320.079	100.00	6.401	321.184	100.00
0.000	319.892	-9.93	3.250	319.861	-0.94	4.045	319.845	-2.00	4.795	319.345	-66.67	5.295	319.845	100.00	6.142	320.692	100.00
0.000	318.993	-11.09	3.250	318.959	-1.04	4.045	318.944	-2.00	4.795	318.444	-66.67	5.295	318.944	100.00	6.419	320.068	100.00
0.000	317.410	-20.96	3.250	317.373	-1.13	4.045	317.357	-2.00	4.795	316.857	-66.67	5.295	317.357	100.00	6.750	318.813	100.00
0.000	315.142	-13.16	3.250	315.102	-1.23	4.044	315.087	-2.00	4.794	314.587	-66.67	5.294	315.087	100.00	6.308	316.101	100.00
0.000	312.201	-9.25	3.250	312.158	-1.32	4.044	312.142	-2.00	4.794	311.642	-66.67	5.294	312.142	100.00	6.061	312.909	100.00
0.000	309.379	-12.02	3.250	309.333	-1.41	4.044	309.317	-2.00	4.794	308.817	-66.67	5.294	309.317	100.00	5.891	309.914	100.00
0.000	306.788	-11.50	3.250	306.739	-1.51	4.043	306.723	-2.00	4.793	306.223	-66.67	5.293	306.723	100.00	6.152	307.582	100.00
0.000	304.232	-14.30	3.250	304.180	-1.60	4.043	304.164	-2.00	4.793	303.664	-66.67	5.293	304.164	100.00	7.169	306.040	100.00
0.000	301.950	-11.37	3.250	301.895	-1.70	4.042	301.879	-2.00	4.792	301.379	-66.67	5.292	301.879	100.00	6.892	303.479	100.00
0.000	299.991	-10.60	3.250	299.933	-1.79	4.042	299.917	-2.00	4.792	299.417	-66.67	5.292	299.917	100.00	6.859	301.484	100.00
0.000	298.325	-9.05	3.250	298.263	-1.88	4.042	298.248	-2.00	4.792	297.748	-66.67	5.292	298.248	100.00	6.059	299.015	100.00
0.000	296.711	-8.84	3.250	296.647	-1.98	4.041	296.631										