

PROYECTO:

**ESTUDIO Y DISEÑO DEFINITIVO DE LA VÍA SAN ANTONIO – SAN MIGUEL, EN LOS CANTONES
GUAYAQUIL Y PLAYAS, DE LA PROVINCIA DEL GUAYAS”**

ABSC	NORTE	ESTE	COTA TERRENO	COTA SUBRASANTE	COTA BASE	DESC
0+000.000	9719967.136	568021.018	41.796	41.148	41.688	
0+020.000	9719965.849	568040.977	42.106	41.509	42.049	
0+040.000	9719964.562	568060.935	42.074	41.765	42.305	
0+060.000	9719963.275	568080.894	42.014	41.901	42.441	
0+080.000	9719961.988	568100.852	41.827	41.917	42.457	
0+092.231	9719961.201	568113.057	41.713	41.868	42.408	PC
0+100.000	9719960.708	568120.811	41.626	41.828	42.368	
0+110.000	9719960.097	568130.793	41.523	41.776	42.316	
0+120.000	9719959.510	568140.775	41.422	41.724	42.264	
0+130.000	9719958.948	568150.760	41.335	41.672	42.212	
0+140.000	9719958.411	568160.745	41.255	41.620	42.160	
0+150.000	9719957.900	568170.732	41.148	41.567	42.107	
0+160.000	9719957.413	568180.720	41.099	41.515	42.055	
0+170.000	9719956.951	568190.709	41.096	41.463	42.003	
0+182.565	9719956.406	568203.263	41.048	41.398	41.938	PT
0+200.000	9719955.677	568220.682	40.942	41.307	41.847	
0+220.000	9719954.841	568240.665	40.892	41.203	41.743	
0+240.000	9719954.005	568260.647	40.825	41.099	41.639	
0+260.000	9719953.169	568280.630	40.794	40.995	41.535	
0+280.000	9719952.333	568300.612	40.909	40.893	41.433	
0+300.000	9719951.497	568320.595	40.905	40.816	41.356	
0+320.000	9719950.661	568340.577	40.86	40.772	41.312	
0+340.000	9719949.825	568360.560	40.896	40.760	41.300	
0+360.000	9719948.989	568380.543	40.857	40.779	41.319	
0+380.000	9719948.153	568400.525	40.854	40.805	41.345	
0+400.000	9719947.317	568420.508	40.864	40.829	41.369	
0+420.000	9719946.481	568440.490	40.832	40.823	41.363	
0+440.000	9719945.645	568460.473	40.718	40.775	41.315	
0+453.565	9719945.078	568474.026	40.668	40.718	41.258	PC
0+460.000	9719944.734	568480.451	40.718	40.684	41.224	
0+470.000	9719943.901	568490.416	40.61	40.623	41.163	
0+480.000	9719942.706	568500.344	40.509	40.551	41.091	
0+490.000	9719941.151	568510.222	40.453	40.469	41.009	
0+500.000	9719939.238	568520.037	40.319	40.377	40.917	
0+510.000	9719936.970	568529.775	40.07	40.284	40.824	
0+520.000	9719934.349	568539.425	39.72	40.191	40.731	
0+530.000	9719931.379	568548.973	39.715	40.099	40.639	
0+540.000	9719928.064	568558.407	39.616	40.006	40.546	
0+550.000	9719924.408	568567.714	39.383	39.913	40.453	
0+560.000	9719920.416	568576.882	39.328	39.820	40.360	
0+570.000	9719916.093	568585.899	39.894	39.727	40.267	
0+580.000	9719911.445	568594.753	39.588	39.634	40.174	
0+590.000	9719906.479	568603.432	39.638	39.541	40.081	
0+600.000	9719901.200	568611.924	39.124	39.448	39.988	
0+610.000	9719895.616	568620.220	38.765	39.356	39.896	
0+620.000	9719889.735	568628.306	38.482	39.263	39.803	
0+630.000	9719883.563	568636.174	38.762	39.170	39.710	
0+640.000	9719877.109	568643.811	38.95	39.077	39.617	

0+650.000	9719870.381	568651.210	38.99	38.984	39.524	
0+660.000	9719863.390	568658.358	38.29	38.891	39.431	
0+670.000	9719856.143	568665.248	37.806	38.798	39.338	
0+680.000	9719848.650	568671.870	36.616	38.707	39.247	
0+690.000	9719840.921	568678.215	37.496	38.618	39.158	
0+700.000	9719832.967	568684.275	37.746	38.531	39.071	
0+710.000	9719824.798	568690.041	37.721	38.448	38.988	
0+720.000	9719816.425	568695.507	37.835	38.367	38.907	
0+730.000	9719807.858	568700.665	37.729	38.288	38.828	
0+737.000	9719801.739	568704.085	37.648	38.235	38.775	
0+740.000	9719799.110	568705.508	37.647	38.212	38.752	
0+747.901	9719792.076	568709.107	37.638	38.154	38.694	PT
0+760.000	9719781.228	568714.464	37.621	38.068	38.608	
0+780.000	9719763.295	568723.319	37.533	37.933	38.473	
0+800.000	9719745.362	568732.174	37.396	37.799	38.339	
0+820.000	9719727.429	568741.029	37.299	37.666	38.206	
0+840.000	9719709.497	568749.885	37.224	37.532	38.072	
0+860.000	9719691.564	568758.740	37.069	37.398	37.938	
0+880.000	9719673.631	568767.595	36.934	37.265	37.805	
0+900.000	9719655.698	568776.450	36.933	37.131	37.671	
0+920.000	9719637.765	568785.305	36.929	36.997	37.537	
0+940.000	9719619.832	568794.160	36.837	36.864	37.404	
0+947.879	9719612.768	568797.649	36.482	36.811	37.351	PC
0+960.000	9719601.983	568803.179	36.653	36.730	37.270	
0+970.000	9719593.214	568807.986	36.584	36.664	37.204	
0+980.000	9719584.568	568813.011	36.48	36.598	37.138	
0+990.000	9719576.051	568818.250	36.42	36.532	37.072	
1+000.000	9719567.667	568823.701	36.38	36.466	37.006	
1+010.000	9719559.423	568829.359	36.412	36.401	36.941	
1+020.000	9719551.322	568835.222	36.464	36.336	36.876	
1+030.000	9719543.370	568841.285	36.483	36.271	36.811	
1+040.000	9719535.572	568847.546	36.442	36.206	36.746	
1+050.000	9719527.934	568853.999	36.375	36.141	36.681	
1+060.000	9719520.459	568860.641	36.307	36.077	36.617	
1+070.000	9719513.152	568867.468	36.23	36.013	36.553	
1+080.000	9719506.018	568874.475	36.152	35.948	36.488	
1+092.182	9719497.568	568883.25	36.077	35.870	36.410	PT
1+100.000	9719492.231	568888.963	35.999	35.820	36.360	
1+120.000	9719478.578	568903.578	35.848	35.691	36.231	
1+140.000	9719464.926	568918.193	35.738	35.563	36.103	
1+160.000	9719451.273	568932.808	35.584	35.434	35.974	
1+180.000	9719437.620	568947.423	35.474	35.305	35.845	
1+200.000	9719423.967	568962.038	35.39	35.177	35.717	
1+220.000	9719410.315	568976.653	35.241	35.055	35.595	
1+240.000	9719396.662	568991.268	35.164	34.969	35.509	
1+260.000	9719383.009	569005.884	35.059	34.923	35.463	
1+280.000	9719369.356	569020.499	34.978	34.919	35.459	
1+300.000	9719355.703	569035.114	34.95	34.949	35.489	
1+320.000	9719342.051	569049.729	34.985	34.983	35.523	
1+340.000	9719328.398	569064.344	35.004	35.017	35.557	
1+360.000	9719314.745	569078.959	35.003	35.051	35.591	
1+380.000	9719301.092	569093.574	34.917	35.085	35.625	
1+400.000	9719287.439	569108.189	34.847	35.118	35.658	

1+420.000	9719273.787	569122.804	34.831	35.136	35.676	
1+440.000	9719260.134	569137.420	34.758	35.131	35.671	
1+460.485	9719246.15	569152.389	34.751	35.101	35.641	PC
1+470.000	9719239.766	569159.444	34.747	35.079	35.619	
1+480.000	9719233.301	569167.073	34.778	35.051	35.591	
1+490.000	9719227.095	569174.913	34.792	35.022	35.562	
1+500.000	9719221.152	569182.955	34.773	34.993	35.533	
1+510.000	9719215.482	569191.191	34.759	34.963	35.503	
1+520.000	9719210.089	569199.612	34.726	34.934	35.474	
1+530.000	9719204.979	569208.208	34.71	34.907	35.447	
1+540.000	9719200.159	569216.969	34.74	34.885	35.425	
1+550.000	9719195.633	569225.885	34.804	34.869	35.409	
1+560.000	9719191.407	569234.948	34.844	34.859	35.399	
1+570.000	9719187.486	569244.147	34.88	34.853	35.393	
1+580.000	9719183.873	569253.471	34.945	34.854	35.394	
1+590.000	9719180.573	569262.910	34.974	34.860	35.400	
1+601.386	9719177.201	569273.785	35.013	34.873	35.413	PT
1+620.000	9719172.027	569291.665	35.044	34.900	35.440	
1+640.000	9719166.467	569310.877	34.954	34.925	35.465	
1+660.000	9719160.907	569330.088	34.958	34.934	35.474	
1+680.000	9719155.348	569349.300	34.954	34.927	35.467	
1+700.000	9719149.788	569368.512	34.909	34.903	35.443	
1+720.000	9719144.228	569387.724	34.793	34.866	35.406	
1+738.149	9719139.183	569405.157	34.889	34.832	35.372	PC
1+750.000	9719135.844	569416.528	35.001	34.810	35.350	
1+760.000	9719132.956	569426.102	35.029	34.792	35.332	
1+770.000	9719130.005	569435.656	35.003	34.776	35.316	
1+780.000	9719126.990	569445.191	34.994	34.770	35.310	
1+790.000	9719123.911	569454.705	34.983	34.773	35.313	
1+800.000	9719120.770	569464.199	34.945	34.784	35.324	
1+810.000	9719117.564	569473.672	34.961	34.805	35.345	
1+820.000	9719114.296	569483.122	34.916	34.834	35.374	
1+830.000	9719110.965	569492.551	34.877	34.872	35.412	
1+840.000	9719107.571	569501.958	34.848	34.919	35.459	
1+850.000	9719104.115	569511.341	34.877	34.970	35.510	
1+860.000	9719100.596	569520.702	34.887	35.014	35.554	
1+870.000	9719097.015	569530.038	34.915	35.049	35.589	
1+880.000	9719093.371	569539.351	34.903	35.075	35.615	
1+890.000	9719089.666	569548.639	34.945	35.092	35.632	
1+900.000	9719085.898	569557.902	34.946	35.100	35.640	
1+910.000	9719082.070	569567.140	34.892	35.099	35.639	
1+920.000	9719078.179	569576.352	34.844	35.089	35.629	
1+930.000	9719074.227	569585.538	34.86	35.070	35.610	
1+940.000	9719070.214	569594.698	34.897	35.041	35.581	
1+950.000	9719066.140	569603.830	34.918	35.004	35.544	
1+960.000	9719062.006	569612.936	34.937	34.958	35.498	
1+970.000	9719057.810	569622.013	34.943	34.903	35.443	
1+980.000	9719053.555	569631.062	34.928	34.847	35.387	
1+990.000	9719049.239	569640.083	34.941	34.791	35.331	
1+996.721	9719046.304	569646.129	34.906	34.753	35.293	PT
2+000.000	9719044.866	569649.076	34.897	34.735	35.275	
2+020.000	9719036.093	569667.049	34.831	34.622	35.162	
2+040.000	9719027.320	569685.023	34.69	34.510	35.050	

2+060.000	9719018.548	569702.996	34.613	34.397	34.937	
2+080.000	9719009.775	569720.969	34.479	34.285	34.825	
2+100.000	9719001.002	569738.943	34.38	34.173	34.713	
2+120.000	9718992.230	569756.916	34.238	34.060	34.600	
2+140.000	9718983.457	569774.889	34.109	33.948	34.488	
2+160.000	9718974.684	569792.863	33.981	33.839	34.379	
2+180.000	9718965.912	569810.836	33.873	33.767	34.307	
2+186.809	9718962.925	569816.955	33.56	33.752	34.292	PC
2+190.000	9718961.542	569819.831	33.851	33.746	34.286	
2+200.000	9718957.425	569828.943	33.854	33.736	34.276	
2+210.000	9718953.643	569838.200	33.822	33.736	34.276	
2+220.000	9718950.199	569847.588	33.777	33.747	34.287	
2+230.000	9718947.100	569857.094	33.718	33.769	34.309	
2+240.000	9718944.347	569866.708	33.69	33.795	34.335	
2+250.000	9718941.946	569876.415	33.677	33.812	34.352	
2+260.000	9718939.900	569886.202	33.615	33.816	34.356	
2+270.000	9718938.211	569896.058	33.61	33.808	34.348	
2+280.000	9718936.881	569905.969	33.607	33.788	34.328	
2+290.000	9718935.912	569915.921	33.634	33.755	34.295	
2+300.000	9718935.306	569925.902	33.62	33.710	34.250	
2+308.647	9718935.075	569934.545	33.565	33.661	34.201	PT
2+320.000	9718934.949	569945.898	33.52	33.584	34.124	
2+340.000	9718934.729	569965.897	33.452	33.410	33.950	
2+360.000	9718934.508	569985.896	33.251	33.219	33.759	
2+380.000	9718934.288	570005.894	32.074	33.029	33.569	
2+400.000	9718934.067	570025.893	32.895	32.839	33.379	
2+420.000	9718933.846	570045.892	32.758	32.649	33.189	
2+440.000	9718933.626	570065.891	32.622	32.459	32.999	
2+460.000	9718933.405	570085.890	32.449	32.271	32.811	
2+480.000	9718933.184	570105.888	32.26	32.102	32.642	
2+485.080	9718933.128	570110.968	32.23	32.063	32.603	PC
2+490.000	9718933.030	570115.887	32.202	32.026	32.566	
2+500.000	9718932.559	570125.875	32.122	31.956	32.496	
2+510.000	9718931.725	570135.840	32.06	31.892	32.432	
2+520.000	9718930.530	570145.768	31.994	31.833	32.373	
2+530.000	9718928.974	570155.645	31.957	31.779	32.319	
2+540.000	9718927.061	570165.460	31.853	31.729	32.269	
2+550.000	9718924.792	570175.199	31.763	31.680	32.220	
2+560.000	9718922.170	570184.848	31.721	31.630	32.170	
2+570.000	9718919.199	570194.396	31.622	31.580	32.120	
2+580.000	9718915.883	570203.830	31.594	31.530	32.070	
2+590.000	9718912.226	570213.137	31.573	31.480	32.020	
2+600.000	9718908.234	570222.304	31.508	31.430	31.970	
2+610.000	9718903.910	570231.321	31.436	31.380	31.920	
2+620.000	9718899.262	570240.174	31.338	31.330	31.870	
2+626.881	9718895.878	570246.165	31.284	31.296	31.836	PT
2+640.000	9718889.284	570257.507	31.222	31.230	31.770	
2+660.000	9718879.230	570274.796	31.241	31.130	31.670	
2+680.000	9718869.177	570292.086	31.163	31.031	31.571	
2+700.000	9718859.124	570309.376	31.077	30.931	31.471	
2+720.000	9718849.071	570326.665	30.954	30.831	31.371	
2+740.000	9718839.018	570343.955	30.774	30.731	31.271	
2+760.000	9718828.964	570361.245	30.632	30.631	31.171	

2+780.000	9718818.911	570378.534	30.593	30.531	31.071	
2+800.000	9718808.858	570395.824	30.586	30.432	30.972	
2+820.000	9718798.805	570413.114	30.413	30.354	30.894	
2+840.000	9718788.752	570430.404	30.353	30.327	30.867	
2+860.000	9718778.698	570447.693	30.403	30.349	30.889	
2+880.000	9718768.645	570464.983	30.442	30.420	30.960	
2+900.000	9718758.592	570482.273	30.437	30.518	31.058	
2+920.000	9718748.539	570499.562	30.435	30.590	31.130	
2+940.000	9718738.486	570516.852	30.438	30.621	31.161	
2+960.000	9718728.432	570534.142	30.387	30.614	31.154	
2+980.000	9718718.379	570551.431	30.318	30.566	31.106	
3+000.000	9718708.326	570568.721	30.231	30.480	31.020	
3+020.000	9718698.273	570586.011	30.188	30.381	30.921	
3+040.000	9718688.220	570603.300	30.05	30.282	30.822	
3+060.000	9718678.166	570620.590	29.981	30.183	30.723	
3+074.173	9718671.042	570632.842	29.965	30.113	30.653	PC
3+080.000	9718668.128	570637.888	29.96	30.084	30.624	
3+090.000	9718663.195	570646.587	29.992	30.034	30.574	
3+100.000	9718658.350	570655.335	30.006	29.985	30.525	
3+110.000	9718653.592	570664.130	29.997	29.935	30.475	
3+120.000	9718648.922	570672.973	29.99	29.886	30.426	
3+130.000	9718644.342	570681.862	29.967	29.836	30.376	
3+140.000	9718639.850	570690.796	29.919	29.787	30.327	
3+150.000	9718635.448	570699.775	29.906	29.736	30.276	
3+160.000	9718631.135	570708.798	29.859	29.680	30.220	
3+170.000	9718626.914	570717.863	29.795	29.619	30.159	
3+180.000	9718622.783	570726.970	29.716	29.554	30.094	
3+190.000	9718618.743	570736.117	29.629	29.485	30.025	
3+200.000	9718614.795	570745.305	29.527	29.411	29.951	
3+208.430	9718611.539	570753.08	29.457	29.345	29.885	PT
3+220.000	9718607.114	570763.771	29.337	29.249	29.789	
3+240.000	9718599.465	570782.251	29.157	29.077	29.617	
3+260.000	9718591.817	570800.731	28.972	28.905	29.445	
3+280.000	9718584.169	570819.210	28.802	28.733	29.273	
3+300.000	9718576.520	570837.690	28.683	28.580	29.120	
3+320.000	9718568.872	570856.170	28.511	28.502	29.042	
3+340.000	9718561.223	570874.650	28.41	28.500	29.040	
3+360.000	9718553.575	570893.129	28.247	28.576	29.116	
3+380.000	9718545.926	570911.609	28.034	28.709	29.249	
3+400.000	9718538.278	570930.089	27.848	28.765	29.305	
3+420.000	9718530.629	570948.569	27.766	28.705	29.245	
3+440.000	9718522.981	570967.048	27.592	28.529	29.069	
3+460.000	9718515.333	570985.528	27.526	28.238	28.778	
3+480.000	9718507.684	571004.008	27.494	27.911	28.451	
3+500.000	9718500.036	571022.488	27.401	27.617	28.157	
3+520.000	9718492.387	571040.967	27.295	27.368	27.908	
3+540.000	9718484.739	571059.447	27.274	27.165	27.705	
3+560.000	9718477.090	571077.927	27.206	27.007	27.547	
3+580.000	9718469.442	571096.407	27.084	26.894	27.434	
3+600.000	9718461.793	571114.886	26.925	26.793	27.333	
3+620.000	9718454.145	571133.366	26.75	26.692	27.232	
3+640.000	9718446.496	571151.846	26.674	26.591	27.131	
3+660.000	9718438.848	571170.326	26.574	26.490	27.030	

3+680.000	9718431.200	571188.805	26.484	26.389	26.929	
3+700.000	9718423.551	571207.285	26.373	26.289	26.829	
3+720.000	9718415.903	571225.765	26.277	26.188	26.728	
3+732.276	9718411.208	571237.108	26.191	26.126	26.666	PC
3+740.000	9718408.304	571244.265	26.134	26.088	26.628	
3+750.000	9718404.695	571253.591	26.135	26.047	26.587	
3+760.000	9718401.256	571262.981	26.161	26.016	26.556	
3+770.000	9718397.988	571272.431	26.16	25.995	26.535	
3+780.000	9718394.892	571281.940	26.155	25.984	26.524	
3+790.000	9718391.970	571291.503	26.151	25.984	26.524	
3+800.000	9718389.222	571301.118	26.187	25.994	26.534	
3+810.000	9718386.649	571310.782	26.218	26.014	26.554	
3+820.000	9718384.253	571320.490	26.196	26.044	26.584	
3+830.000	9718382.033	571330.240	26.215	26.085	26.625	
3+840.000	9718379.991	571340.030	26.263	26.135	26.675	
3+850.000	9718378.128	571349.854	26.331	26.186	26.726	
3+860.000	9718376.443	571359.711	26.352	26.238	26.778	
3+870.000	9718374.938	571369.597	26.37	26.290	26.830	
3+880.000	9718373.613	571379.509	26.401	26.342	26.882	
3+890.000	9718372.468	571389.443	26.35	26.393	26.933	
3+900.000	9718371.504	571399.396	26.316	26.445	26.985	
3+909.153	9718370.78	571408.52	26.248	26.484	27.024	PT
3+920.000	9718370.012	571419.340	26.194	26.502	27.042	
3+940.000	9718368.597	571439.290	26.161	26.457	26.997	
3+960.000	9718367.182	571459.240	26.034	26.308	26.848	
3+980.000	9718365.767	571479.190	25.781	26.057	26.597	
4+000.000	9718364.351	571499.140	25.471	25.703	26.243	
4+020.000	9718362.936	571519.090	25.027	25.246	25.786	
4+040.000	9718361.521	571539.039	24.59	24.733	25.273	
4+060.000	9718360.106	571558.989	24.024	24.219	24.759	
4+080.000	9718358.690	571578.939	23.451	23.708	24.248	
4+100.000	9718357.275	571598.889	23.117	23.279	23.819	
4+104.000	9718356.992	571602.879	23.047	23.208	23.748	
4+120.000	9718355.860	571618.839	22.854	22.971	23.511	
4+140.000	9718354.445	571638.789	22.591	22.784	23.324	
4+160.000	9718353.029	571658.739	22.5	22.717	23.257	
4+169.771	9718352.338	571668.485	22.488	22.728	23.268	PC
4+180.000	9718351.440	571678.674	22.464	22.768	23.308	
4+190.000	9718350.227	571688.600	22.416	22.812	23.352	
4+200.000	9718348.685	571698.480	22.434	22.844	23.384	
4+210.000	9718346.813	571708.303	22.514	22.862	23.402	
4+220.000	9718344.616	571718.058	22.584	22.866	23.406	
4+230.000	9718342.094	571727.734	22.651	22.855	23.395	
4+240.000	9718339.251	571737.321	22.713	22.831	23.371	
4+250.000	9718336.091	571746.808	22.75	22.792	23.332	
4+260.000	9718332.616	571756.184	22.746	22.739	23.279	
4+270.000	9718328.830	571765.439	22.732	22.673	23.213	
4+274.275	9718327.118	571769.356	22.722	22.643	23.183	PT
4+280.000	9718324.788	571774.586	22.71	22.604	23.144	
4+300.000	9718316.648	571792.855	22.776	22.483	23.023	
4+320.000	9718308.508	571811.123	22.938	22.459	22.999	
4+340.000	9718300.368	571829.392	23.012	22.543	23.083	
4+360.000	9718292.228	571847.660	22.895	22.735	23.275	

4+380.000	9718284.088	571865.929	22.885	23.020	23.560	
4+400.000	9718275.948	571884.197	22.898	23.110	23.650	
4+420.000	9718267.808	571902.466	23.022	23.315	23.855	
4+440.000	9718259.668	571920.735	23.22	23.610	24.150	
4+460.000	9718251.528	571939.003	23.545	23.905	24.445	
4+468.374	9718248.12	571946.652	23.834	24.200	24.740	PC
4+470.000	9718247.455	571948.136	23.931	24.320	24.860	
4+480.000	9718243.234	571957.201	24.043	24.461	25.001	
4+490.000	9718238.789	571966.158	24.099	24.557	25.097	
4+500.000	9718234.120	571975.002	24.144	24.628	25.168	
4+510.000	9718229.232	571983.725	24.214	24.676	25.216	
4+520.000	9718224.127	571992.324	24.254	24.700	25.240	
4+530.000	9718218.810	572000.792	24.269	24.700	25.240	
4+540.000	9718213.282	572009.125	24.298	24.676	25.216	
4+550.000	9718207.547	572017.317	24.332	24.635	25.175	
4+555.327	9718204.409	572021.622	24.334	24.612	25.152	PT
4+560.000	9718201.631	572025.380	24.362	24.592	25.132	
4+580.000	9718189.743	572041.463	24.305	24.507	25.047	
4+600.000	9718177.854	572057.546	24.284	24.422	24.962	
4+620.000	9718165.966	572073.629	24.174	24.337	24.877	
4+640.000	9718154.077	572089.712	24.109	24.252	24.792	
4+660.000	9718142.189	572105.795	24.051	24.167	24.707	
4+680.000	9718130.300	572121.878	24.005	24.082	24.622	
4+700.000	9718118.412	572137.961	23.997	23.997	24.537	
4+720.000	9718106.523	572154.044	23.971	23.911	24.451	
4+740.000	9718094.635	572170.127	23.886	23.826	24.366	
4+760.000	9718082.746	572186.210	23.878	23.741	24.281	
4+782.322	9718069.477	572204.16	23.796	23.646	24.186	PC
4+790.000	9718065.000	572210.397	23.789	23.614	24.154	
4+800.000	9718059.433	572218.704	23.721	23.561	24.101	
4+810.000	9718054.172	572227.207	23.648	23.486	24.026	
4+820.000	9718049.223	572235.896	23.568	23.387	23.927	
4+830.000	9718044.594	572244.759	23.443	23.265	23.805	
4+840.000	9718040.289	572253.785	23.333	23.119	23.659	
4+850.000	9718036.316	572262.961	23.148	22.950	23.490	
4+860.000	9718032.679	572272.276	22.904	22.758	23.298	
4+870.000	9718029.383	572281.716	22.641	22.542	23.082	
4+880.000	9718026.432	572291.270	22.313	22.312	22.852	
4+890.000	9718023.831	572300.925	21.988	22.082	22.622	
4+900.000	9718021.582	572310.669	21.634	21.852	22.392	
4+905.226	9718020.548	572315.792	21.441	21.732	22.272	PT
4+920.000	9718017.763	572330.301	21.041	21.392	21.932	
4+940.000	9718013.994	572349.942	20.639	20.932	21.472	
4+960.000	9718010.224	572369.584	20.322	20.472	21.012	
4+980.000	9718006.454	572389.225	19.968	20.012	20.552	
5+000.000	9718002.684	572408.867	19.584	19.552	20.092	
5+020.000	9717998.914	572428.508	19.106	19.092	19.632	
5+040.000	9717995.144	572448.150	18.643	18.632	19.172	
5+060.000	9717991.374	572467.791	18.239	18.174	18.714	
5+080.000	9717987.604	572487.433	17.821	17.805	18.345	
5+100.000	9717983.835	572507.074	17.537	17.577	18.117	
5+120.000	9717980.065	572526.715	17.415	17.489	18.029	
5+134.400	9717977.350	572540.857	17.429	17.513	18.053	

5+140.000	9717976.295	572546.357	17.462	17.540	18.080	
5+160.000	9717972.525	572565.998	17.441	17.642	18.182	
5+180.000	9717968.755	572585.640	17.54	17.744	18.284	
5+200.000	9717964.985	572605.281	17.78	17.864	18.404	
5+220.000	9717961.215	572624.923	17.867	18.029	18.569	
5+240.000	9717957.445	572644.564	17.905	18.239	18.779	
5+260.000	9717953.676	572664.206	18.235	18.494	19.034	
5+280.000	9717949.906	572683.847	18.715	18.775	19.315	
5+300.000	9717946.083	572703.478	19.026	19.023	19.563	
5+320.000	9717942.084	572723.074	19.21	19.195	19.735	
5+340.000	9717938.085	572742.671	19.33	19.292	19.832	
5+360.000	9717934.086	572762.267	19.351	19.313	19.853	
5+380.000	9717930.087	572781.863	19.37	19.293	19.833	
5+400.000	9717926.088	572801.459	19.286	19.291	19.831	
5+420.000	9717922.089	572821.055	19.287	19.314	19.854	
5+440.000	9717918.090	572840.651	19.36	19.364	19.904	
5+460.000	9717914.091	572860.247	19.632	19.440	19.980	
5+480.000	9717910.092	572879.844	19.826	19.541	20.081	
5+500.000	9717906.093	572899.440	19.871	19.669	20.209	
5+520.000	9717902.094	572919.036	19.887	19.808	20.348	
5+540.000	9717898.095	572938.632	19.964	19.985	20.525	
5+540.700	9717897.955	572939.318	19.949	19.992	20.532	
5+552.007	9717895.694	572950.396	20.029	20.111	20.651	PC
5+560.000	9717894.159	572958.240	20.08	20.204	20.744	
5+570.000	9717892.415	572968.087	20.18	20.330	20.870	
5+580.000	9717890.868	572977.967	20.269	20.466	21.006	
5+590.000	9717889.519	572987.875	20.419	20.613	21.153	
5+600.000	9717888.368	572997.808	20.629	20.767	21.307	
5+610.000	9717887.416	573007.763	20.84	20.920	21.460	
5+620.000	9717886.664	573017.734	21.047	21.074	21.614	
5+630.000	9717886.111	573027.719	21.163	21.217	21.757	
5+640.000	9717885.758	573037.712	21.172	21.335	21.875	
5+650.000	9717885.605	573047.711	21.141	21.426	21.966	
5+660.000	9717885.652	573057.711	21.143	21.492	22.032	
5+670.000	9717885.898	573067.708	21.123	21.532	22.072	
5+681.753	9717886.444	573079.448	21.143	21.547	22.087	PT
5+700.000	9717887.505	573097.664	21.14	21.498	22.038	
5+720.000	9717888.668	573117.630	21.165	21.392	21.932	
5+740.000	9717889.831	573137.596	21.13	21.287	21.827	
5+760.000	9717890.994	573157.562	21.215	21.201	21.741	
5+780.000	9717892.157	573177.528	21.297	21.162	21.702	
5+800.000	9717893.321	573197.495	21.331	21.168	21.708	
5+820.000	9717894.484	573217.461	21.406	21.220	21.760	
5+840.000	9717895.647	573237.427	21.464	21.317	21.857	
5+860.000	9717896.810	573257.393	21.494	21.439	21.979	
5+880.000	9717897.973	573277.359	21.591	21.562	22.102	
5+900.000	9717899.136	573297.325	21.677	21.684	22.224	
5+920.000	9717900.299	573317.291	21.776	21.806	22.346	
5+940.000	9717901.462	573337.258	21.924	21.929	22.469	
5+960.000	9717902.625	573357.224	22.122	22.051	22.591	
5+966.843	9717903.023	573364.055	22.164	22.093	22.633	PC
5+970.000	9717903.217	573367.206	22.167	22.112	22.652	
5+980.000	9717903.968	573377.178	22.193	22.174	22.714	

5+990.000	9717904.927	573387.131	22.252	22.235	22.775	
6+000.000	9717906.093	573397.063	22.287	22.296	22.836	
6+010.000	9717907.465	573406.968	22.335	22.350	22.890	
6+020.000	9717909.044	573416.843	22.421	22.388	22.928	
6+030.000	9717910.828	573426.682	22.46	22.409	22.949	
6+040.000	9717912.816	573436.482	22.467	22.413	22.953	
6+050.000	9717915.008	573446.239	22.476	22.401	22.941	
6+060.000	9717917.403	573455.948	22.485	22.371	22.911	
6+070.000	9717920.000	573465.604	22.437	22.325	22.865	
6+080.000	9717922.797	573475.205	22.392	22.262	22.802	
6+090.000	9717925.794	573484.745	22.347	22.190	22.730	
6+100.000	9717928.989	573494.221	22.301	22.117	22.657	
6+110.000	9717932.380	573503.628	22.249	22.045	22.585	
6+120.000	9717935.967	573512.963	22.21	21.984	22.524	
6+127.938	9717938.952	573520.318	22.207	21.945	22.485	PT
6+140.000	9717943.580	573531.457	22.217	21.902	22.442	
6+160.000	9717951.254	573549.926	22.079	21.874	22.414	
6+180.000	9717958.928	573568.395	22.024	21.900	22.440	
6+200.000	9717966.602	573586.864	21.989	21.966	22.506	
6+218.663	9717973.763	573604.098	22.005	22.029	22.569	PC
6+230.000	9717978.328	573614.475	22.033	22.068	22.608	
6+240.000	9717982.706	573623.465	22	22.102	22.642	
6+250.000	9717987.408	573632.290	22	22.126	22.666	
6+260.000	9717992.428	573640.938	21.996	22.127	22.667	
6+270.000	9717997.759	573649.398	22	22.106	22.646	
6+280.000	9718003.395	573657.658	21.964	22.064	22.604	
6+290.000	9718009.326	573665.708	21.973	22.000	22.540	
6+300.000	9718015.547	573673.537	21.984	21.914	22.454	
6+310.000	9718022.048	573681.135	21.91	21.806	22.346	
6+320.000	9718028.820	573688.492	21.806	21.676	22.216	
6+330.000	9718035.856	573695.597	21.677	21.535	22.075	
6+336.390	9718040.483	573699.999	21.596	21.446	21.986	PT
6+340.000	9718043.130	573702.459	21.543	21.395	21.935	
6+360.000	9718057.778	573716.076	21.237	21.113	21.653	
6+372.046	9718066.601	573724.277	21.088	20.937	21.477	PC
6+380.000	9718072.323	573729.802	20.989	20.832	21.372	
6+390.000	9718079.213	573737.048	20.878	20.691	21.231	
6+400.000	9718085.751	573744.614	20.829	20.553	21.093	
6+410.000	9718091.920	573752.483	20.803	20.435	20.888	
6+420.000	9718097.709	573760.636	20.778	20.342	20.788	
6+430.000	9718103.102	573769.056	20.765	20.274	20.719	
6+440.000	9718108.089	573777.723	20.713	20.231	20.679	
6+450.000	9718112.657	573786.617	20.662	20.214	20.665	
6+460.000	9718116.797	573795.719	20.583	20.222	20.677	
6+470.000	9718120.499	573805.007	20.575	20.255	20.715	
6+480.000	9718123.754	573814.462	20.593	20.311	20.777	
6+490.000	9718126.556	573824.060	20.636	20.372	20.843	
6+500.000	9718128.898	573833.781	20.721	20.433	20.909	
6+506.624	9718130.193	573840.277	20.795	20.473	20.953	PT
6+520.000	9718132.602	573853.434	20.965	20.554	21.042	
6+540.000	9718136.203	573873.107	21.141	20.676	21.175	
6+560.000	9718139.804	573892.781	21.311	20.748	21.259	
6+580.000	9718143.405	573912.454	21.275	20.710	21.242	

6+592.905	9718145.729	573925.148	21.236	20.628	21.176	PC
6+600.000	9718147.143	573932.100	21.167	20.562	21.121	
6+610.000	9718149.600	573941.792	21.126	20.447	21.024	
6+620.000	9718152.591	573951.333	20.958	20.304	20.9	
6+630.000	9718156.107	573960.693	20.843	20.145	20.707	
6+640.000	9718160.138	573969.843	20.775	19.986	20.503	
6+650.000	9718164.670	573978.756	20.637	19.827	20.299	
6+660.000	9718169.860	573987.677	20.316	19.911	20.111	inicio adoq
6+670.000	9718175.183	573995.758	20.157	19.753	19.953	
6+680.000	9718181.131	574003.795	20.013	19.610	19.810	
6+687.613	9718185.954	574009.685	19.915	19.510	19.710	PT
6+700.000	9718194.001	574019.101	19.75	19.346	19.546	
6+720.000	9718206.996	574034.305	19.45	19.047	19.247	
6+740.000	9718219.990	574049.509	19.185	18.783	18.983	
6+744.275	9718222.767	574052.759	19.147	18.742	18.942	PC
6+750.000	9718226.386	574057.194	19.054	18.651	18.851	
6+760.000	9718232.206	574065.323	18.927	18.523	18.723	
6+770.000	9718237.358	574073.890	18.776	18.374	18.574	
6+780.000	9718241.809	574082.842	18.671	18.268	18.468	
6+790.000	9718245.530	574092.121	18.569	18.162	18.362	
6+800.000	9718248.498	574101.668	18.459	18.054	18.254	
6+810.000	9718250.693	574111.421	18.305	17.909	18.109	
6+818.634	9718251.956	574119.961	18.187	17.786	17.986	PT
6+840.000	9718254.351	574141.192	18.027	17.626	17.826	
6+860.000	9718256.593	574161.066	17.974	17.573	17.773	
6+878.919	9718258.713	574179.865	18.174	17.772	17.972	PC
6+890.000	9718260.361	574190.821	18.446	18.034	18.234	
6+900.000	9718262.538	574200.579	18.71	18.293	18.493	
6+910.000	9718265.361	574210.171	18.966	18.553	18.753	
6+919.645	9718268.683	574219.223	19.256	18.838	19.038	PT
6+940.000	9718276.305	574238.098	19.622	19.216	19.416	
6+949.363	9718279.812	574246.78	19.688	19.287	19.487	PC
6+960.000	9718283.032	574256.907	19.706	19.306	19.506	
6+970.000	9718284.628	574266.770	19.677	19.285	19.485	
6+978.410	9718284.871	574275.171	19.668	19.268	19.468	PT
7+000.000	9718284.199	574296.751	19.642	19.242	19.442	
7+020.000	9718283.577	574316.741	19.587	19.186	19.386	
7+039.079	9718282.983	574335.811	19.461	19.057	19.257	PC
7+050.000	9718282.345	574346.712	19.302	18.892	19.092	
7+060.000	9718281.240	574356.650	19.082	18.659	18.859	
7+070.000	9718279.640	574366.520	18.739	18.298	18.498	
7+080.000	9718277.549	574376.297	18.271	17.823	18.023	
7+086.720	9718275.87	574382.804	17.929	17.466	17.666	PT
7+100.000	9718272.336	574395.605	17.151	16.668	16.868	
7+120.000	9718267.014	574414.884	15.795	15.337	15.705	fin adoq
7+140.000	9718261.693	574434.163	14.675	13.989	14.7	
7+160.000	9718256.371	574453.442	14.368	12.956	13.704	
7+180.000	9718251.049	574472.721	13.603	12.165	12.795	
7+200.000	9718245.727	574492.000	14.056	11.642	12.155	
7+220.000	9718240.406	574511.279	15.338	11.387	11.843	
7+240.000	9718235.084	574530.558	16.035	11.360	11.900	
7+251.500	9718232.024	9718232.024	15.353	11.360	11.900	
7+260.000	9718229.762	574549.837	4.097	11.360	11.900	

7+267.500	9718227.766	574557.067	1.737	11.360	11.900	
7+273.000	9718226.303	574562.368	2.857	11.360	11.900	
7+280.000	9718224.440	574569.116	3.933	11.360	11.900	
7+296.182	9718220.135	574584.715	6.012	11.360	11.900	TS
7+300.000	9718219.117	574588.395	6.503	11.360	11.900	
7+310.000	9718216.387	574598.015	6.021	11.348	11.888	
7+320.000	9718213.437	574607.569	5.756	11.308	11.848	
7+330.000	9718210.109	574616.998	5.613	11.239	11.779	
7+336.182	9718207.798	574622.732	5.745	11.182	11.722	SC
7+340.000	9718206.258	574626.225	5.828	11.141	11.681	
7+344.326	9718204.405	574630.134	5.827	11.090	11.630	CS
7+350.000	9718201.811	574635.180	5.827	11.014	11.554	
7+360.000	9718196.860	574643.867	5.872	10.859	11.399	
7+370.000	9718191.562	574652.348	6.055	10.674	11.214	
7+380.000	9718186.062	574660.699	5.93	10.461	11.001	
7+384.326	9718183.656	574664.295	5.975	10.360	10.900	ST
7+400.000	9718174.932	574677.316	6.142	9.948	10.488	
7+420.000	9718163.799	574693.931	6.811	9.446	9.986	
7+430.746	9718157.818	574702.859	9.156	9.269	9.809	TS
7+440.000	9718152.694	574710.564	8.962	9.522	10.062	
7+450.000	9718147.339	574719.009	9.196	9.118	9.658	
7+460.000	9718142.377	574727.690	9.304	9.124	9.664	
7+460.746	9718142.028	574728.35	9.305	9.127	9.667	SC
7+462.790	9718141.092	574730.166	9.308	9.136	9.676	CS
7+470.000	9718137.990	574736.674	9.32	9.188	9.728	
7+480.000	9718134.095	574745.884	9.486	9.309	9.849	
7+490.000	9718130.482	574755.208	9.53	9.478	10.018	
7+492.790	9718129.495	574757.817	9.545	9.526	10.066	ST
7+494.260	9718128.975	574759.193	9.554	9.552	10.092	