

## Anexo I. Cartera Levantamiento Topográfico

1,960710.650100,935763.097100,477.155000,GPS723  
2,960622.894300,935833.316400,476.766300,GPS722  
3,960834.304777,935660.580403,477.336166,DEL1  
4,960830.020498,935540.041061,476.304860,DEL2  
5,960719.979856,935383.098501,474.667296,DEL3  
6,960573.859377,935173.360723,471.477288,DEL4  
7,960516.341077,935104.169838,469.199141,DEL5  
8,960529.685195,935013.811408,462.227498,DEL6  
9,960428.440193,934924.674425,453.340574,DEL7  
10,960348.621655,934785.934723,443.923695,DEL8  
11,960327.787492,934647.055500,432.984402,DEL9  
12,960188.076219,934584.957840,421.001666,DEL10  
13,960148.481256,934474.509980,412.479412,DEL11  
14,960114.406368,934428.227702,407.700663,DEL12  
15,960138.123888,934279.889425,398.757925,DEL13  
16,960093.834506,934200.576284,392.915995,DEL14  
17,960032.755870,934165.124603,386.341637,DEL15  
18,959966.724222,934164.111350,383.270030,DEL16  
19,959920.210326,934125.697791,381.617854,DEL17  
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21,959765.990649,934085.000102,375.404551,DEL19

22,959716.818869,933900.090621,366.416380,DEL20  
23,959619.282089,933772.005592,361.832839,DEL21  
24,959623.956042,933610.149382,357.979467,DEL22  
25,959592.654614,933479.273274,357.685749,DEL23  
26,959589.358644,933396.853124,358.805451,DEL24  
27,959542.943156,933261.606466,351.360283,DEL25  
28,959585.774738,933104.390338,341.806239,DEL26  
29,959562.753261,932961.312673,339.380311,DEL27  
30,959556.534584,932807.487222,334.108289,DEL28  
31,959496.948661,932621.261102,328.939021,DEL29  
32,959510.648886,932484.482065,332.340078,DEL30  
33,959467.380994,932406.353619,330.861248,DEL31  
34,959462.638732,932311.666048,328.502633,DEL32  
35,959416.212874,932256.300628,328.818385,DEL33  
36,959333.379069,932237.310200,323.791496,DEL34  
37,959386.065000,932264.372000,327.897000,GPS37A  
38,959387.427696,932264.556611,328.009099,DEL35  
39,959374.845406,932215.603664,333.158621,DEL36  
40,959373.453000,932215.430000,333.045000,OO37  
41,960525.868616,935091.273963,467.117979,K0+062  
42,960524.701143,935080.468850,466.404550,K0+072  
43,960304.481642,934624.631532,432.500838,AUX4  
44,960314.127659,934654.396019,434.129809,AUX3  
45,960206.065713,934600.807371,423.062005,AUX5  
46,960138.097864,934479.451933,412.903669,AUX6  
47,960111.271472,934416.588255,406.915936,AUX7

48,960138.717731,934268.450472,398.713970,AUX8  
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50,959905.585040,934133.024791,381.614498,AUX9  
51,959723.632482,933905.945842,368.165638,AUX10  
52,959667.904405,933830.055641,363.198557,AUX11  
53,959602.778644,933466.012259,360.660606,AUX12  
54,959602.721144,933493.621813,357.088686,AUX13  
55,959557.491386,933260.044918,354.591006,AUX14  
56,959590.760040,933096.661083,342.523507,AUX15  
57,959574.012779,932951.013110,340.263596,AUX16  
58,959543.361596,932816.749841,334.881767,AUX17  
59,959556.536125,932807.490871,334.109935,PR  
60,959496.948643,932621.262219,328.937722,HDER  
200,960551.915749,935145.593442,470.669130,K0+000  
201,960546.373027,935137.400601,470.293174,K0+010  
202,960541.166913,935130.322269,469.836567,K0+020  
203,960538.199415,935126.210002,469.502756,K0+025  
204,960535.609257,935121.786218,469.178061,K0+030  
205,960533.474645,935117.126245,468.861645,K0+035  
206,960531.753130,935112.502281,468.552765,K0+040  
207,960530.589763,935107.856724,468.212795,K0+045  
208,960528.851275,935103.106220,467.898781,K0+050  
209,960525.120357,935072.774899,465.879380,K0+080  
210,960525.530130,935063.196524,465.236500,K0+090  
211,960526.267773,935053.170041,464.543708,K0+100  
212,960526.674821,935047.973518,464.203325,K0+105

213,960527.278260,935042.599514,463.824586,K0+110  
214,960526.819567,935037.144264,463.347379,K0+115  
215,960526.557195,935031.446044,462.837123,K0+120  
216,960526.528526,935026.503944,462.450892,K0+125  
218,960525.967147,935021.306412,462.097939,K0+130  
219,960524.518450,935016.237375,461.722872,K0+135  
220,960522.542725,935011.491765,461.370249,K0+140  
221,960519.338606,935007.134060,460.926776,K0+145  
222,960516.958975,935002.898944,460.630279,K0+150  
223,960513.645034,934998.490184,460.276038,K0+155  
224,960510.102625,934994.767029,459.958821,K0+160  
225,960506.573292,934990.881064,459.689101,K0+165  
226,960502.702880,934987.353018,459.384908,K0+170  
227,960498.463561,934983.962554,459.027752,K0+175  
228,960494.505368,934980.790747,458.651139,K0+180  
229,960486.393122,934974.718953,457.952274,K0+190  
230,960478.587427,934969.259388,457.242681,K0+200  
231,960474.372002,934966.277894,456.937349,K0+205  
232,960470.222533,934963.166341,456.571845,K0+210  
233,960465.858448,934959.787596,456.193642,K0+215  
234,960458.428484,934952.941927,455.535298,K0+225  
235,960451.243079,934945.454835,454.945988,K0+235  
236,960444.327923,934938.021668,454.381446,K0+245  
237,960437.919526,934930.210690,453.845624,K0+255  
238,960434.960005,934926.337918,453.570951,K0+260  
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245,960400.799454,934878.605872,450.077940,K0+320  
246,960397.858573,934874.339709,449.742467,K0+325  
247,960395.023954,934870.088747,449.444258,K0+330  
248,960392.279475,934865.711105,449.179709,K0+335  
249,960389.832926,934861.359185,448.890269,K0+340  
250,960384.908241,934852.249685,448.314229,K0+350  
251,960380.492284,934843.531590,447.680281,K0+360  
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256,960359.011944,934798.900381,444.552449,K0+410  
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259,960352.951518,934785.299236,443.533316,K0+420  
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264,960346.074082,934762.511318,441.569954,K0+445  
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269,960339.829803,934719.640168,438.126091,K0+490  
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272,960337.121143,934695.423969,436.052508,K0+515  
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274,960335.191807,934685.797043,435.208180,K0+525  
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276,960330.205140,934666.022853,433.612194,K0+545  
277,960328.723296,934661.226822,433.296689,K0+550  
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280,960320.907188,934647.361381,432.039097,K0+565  
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283,960309.092155,934638.506826,430.831991,K0+580  
284,960300.816019,934633.384348,430.024994,K0+590  
285,960292.312965,934629.042127,429.270161,K0+600  
286,960283.738933,934624.790711,428.411782,K0+610  
287,960275.203068,934621.028147,427.666170,K0+620  
288,960266.057468,934617.055039,426.885485,K0+630  
289,960256.770879,934613.148581,426.158641,K0+640  
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291,960237.717321,934605.582677,424.443711,K0+660

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295,960209.558895,934592.938201,421.925813,K0+690  
296,960204.858350,934590.665479,421.550043,K0+695  
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299,960192.732383,934581.158533,420.486082,K0+710  
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301,960186.505200,934574.350450,419.803600,K0+720  
302,960183.721574,934570.745139,419.424940,K0+725  
303,960181.020155,934567.056755,419.009513,K0+730  
304,960178.615842,934563.278597,418.604390,K0+735  
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307,960171.837995,934551.483434,417.491726,K0+750  
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312,960163.310600,934524.254704,415.573365,K0+775  
313,960161.073861,934514.123804,414.997835,K0+785  
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319,960149.537477,934482.387654,412.855642,K0+820  
320,960147.027284,934478.052780,412.415719,K0+825  
321,960144.355154,934473.949181,412.006322,K0+830  
322,960141.674554,934469.908774,411.571420,K0+835  
323,960136.329430,934462.710619,410.786624,K0+845  
324,960133.435796,934459.046544,410.453182,K0+850  
325,960130.496573,934455.311269,410.057540,K0+855  
326,960127.893852,934451.669029,409.697353,K0+860  
327,960125.569061,934447.840606,409.337473,K0+865  
328,960123.304643,934443.778018,408.933370,K0+870  
329,960121.452817,934439.631818,408.577610,K0+875  
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331,960118.926248,934430.877730,407.625155,K0+885  
332,960118.375202,934426.218490,407.087445,K0+890  
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334,960118.987399,934411.186378,405.448326,K0+905  
335,960120.428063,934401.089741,404.441917,K0+915  
336,960121.831602,934390.870647,403.585800,K0+925  
337,960122.958065,934381.557182,402.985562,K0+935  
338,960123.328808,934376.790584,402.716890,K0+940  
339,960123.732306,934372.147268,402.483275,K0+945  
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341,960125.202875,934352.925656,401.539229,K0+965  
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347,960131.918024,934309.856536,399.188199,K1+010  
348,960133.278675,934301.128186,398.729244,K1+020  
349,960133.500954,934296.061723,398.482435,K1+025  
350,960133.814198,934291.113605,398.257267,K1+030  
351,960133.712575,934286.296345,398.027500,K1+035  
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359,960121.822152,934243.789921,395.682140,K1+075  
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361,960115.923943,934234.121597,395.108359,K1+085  
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367,960091.891464,934204.819449,392.676887,K0+120  
368,960084.914209,934198.013059,391.825216,K0+130  
369,960077.870880,934191.458417,390.916279,K0+140

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371,960069.007751,934184.987223,389.736708,K0+150  
372,960064.770235,934182.061068,389.192915,K0+155  
373,960060.089690,934179.378215,388.671551,K0+160  
374,960055.171359,934176.645813,388.096596,K0+165  
375,960050.174634,934174.293654,387.531249,K0+170  
376,960045.339475,934172.305377,387.033317,K0+175  
377,960040.039462,934170.671258,386.630589,K0+180  
378,960034.715125,934169.377467,386.241228,K0+185  
379,960024.016715,934168.260443,385.530046,K1+195  
380,960014.209377,934167.593171,384.918138,K1+205  
381,960004.338893,934167.075249,384.401986,K1+215  
382,959994.267069,934166.678008,383.993004,K1+225  
383,959988.957124,934166.386355,383.848351,K1+230  
384,959983.544824,934165.490577,383.650653,K1+235  
385,959977.707136,934163.992267,383.426757,K1+240  
386,959972.683532,934161.774445,383.228718,K1+245  
387,959967.564985,934158.655071,382.971741,K1+250  
388,959963.133715,934155.043696,382.678412,K1+255  
389,959958.738710,934151.819518,382.426280,K1+260  
390,959955.146012,934148.020995,382.193826,K1+265  
391,959950.977668,934144.033523,381.986343,K1+270  
392,959947.402592,934139.619110,381.931218,K1+275  
393,959942.555365,934136.019124,381.923271,K1+280  
394,959937.510704,934133.204835,382.270713,K1+285  
395,959932.042896,934130.913095,382.089484,K1+290

396,959926.585470,934129.417107,381.941963,K1+295  
397,959914.322166,934128.019175,381.174809,K1+305  
398,959903.084368,934127.735391,380.687334,K1+315  
399,959892.496627,934128.315027,380.249175,K1+325  
400,959881.644168,934129.288471,379.917419,K1+335  
401,959870.159105,934129.925509,379.573591,K1+345  
402,959864.879559,934130.049979,379.522549,K1+350  
403,959859.231340,934129.904754,379.454670,K1+355  
404,959853.482556,934129.303721,379.357116,K1+360  
405,959847.616300,934128.078098,379.227667,K1+365  
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411,959803.159493,934109.410564,377.830668,K1+410  
412,959798.332596,934106.738654,377.582834,K1+415  
413,959793.904384,934103.820257,377.271250,K1+420  
414,959789.249523,934101.146195,376.949973,K1+425  
415,959784.880445,934098.480402,376.523727,K1+430  
416,959780.152639,934095.308833,376.149457,K1+435  
417,959775.908369,934091.839184,375.707995,K1+440  
418,959771.855485,934087.977670,375.231386,K1+440  
419,959768.899380,934084.264666,374.845356,K1+445  
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