TOPOGRAFÍA
Servicios Topográficos

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1333 | 2017120.602 | 4928959.380 | 524.112 | TN |
| 1334 | 2017112.174 | 4928963.548 | 523.312 | POST |
| 1335 | 2017178.345 | 4929010.843 | 514.923 | DA2C |
| 1336 | 2017210.677 | 4929004.462 | 511.643 | PARAM |
| 1337 | 2017210.662 | 4929004.423 | 511.644 | CUNETA |
| 1338 | 2017210.642 | 4929004.396 | 511.545 | CUNETA |
| 1339 | 2017210.444 | 4929004.160 | 511.610 | VIA |
| 1340 | 2017210.126 | 4929002.683 | 511.639 | VIA |
| 1341 | 2017209.667 | 4929000.771 | 511.641 | VIA |
| 1342 | 2017209.639 | 4929000.715 | 511.644 | CUNETA |
| 1343 | 2017209.680 | 4929000.610 | 511.267 | CUNETA |
| 1344 | 2017209.553 | 4929000.232 | 511.249 | CUNETA |
| 1345 | 2017209.543 | 4929000.201 | 511.537 | CUNETA |
| 1346 | 2017208.891 | 4928998.411 | 513.739 | TN |
| 1347 | 2017216.025 | 4929003.247 | 512.992 | PARAM |
| 1348 | 2017215.966 | 4929003.140 | 511.540 | CUNETA |
| 1349 | 2017215.960 | 4929003.103 | 511.352 | CUNETA |
| 1350 | 2017215.941 | 4929002.780 | 511.355 | VIA |
| 1351 | 2017216.546 | 4929002.870 | 511.312 | VIA |
| 1352 | 2017216.618 | 4929003.263 | 511.295 | CUNETA |
| 1353 | 2017216.631 | 4929003.294 | 511.461 | CUNETA |
| 1354 | 2017218.294 | 4929003.793 | 513.047 | PARAM |
| 1355 | 2017218.318 | 4929003.070 | 511.286 | POST |
| 1356 | 2017216.198 | 4929000.905 | 511.241 | VIA |
| 1357 | 2017215.614 | 4928999.258 | 511.232 | VIA |
| 1358 | 2017215.619 | 4928999.130 | 511.222 | CUNETA |
| 1359 | 2017215.531 | 4928999.098 | 511.035 | CUNETA |
| 1360 | 2017215.467 | 4928998.776 | 511.024 | CUNETA |
| 1361 | 2017215.491 | 4928998.806 | 511.289 | CUNETA |
| 1362 | 2017215.526 | 4928998.191 | 512.429 | TN |
| 1363 | 2017222.650 | 4928996.674 | 512.064 | TN |
| 1364 | 2017222.744 | 4928996.692 | 510.605 | CUNETA |
| 1365 | 2017222.763 | 4928996.786 | 510.236 | CUNETA |
| 1366 | 2017222.913 | 4928997.297 | 510.292 | VIA |
| 1367 | 2017218.065 | 4928998.584 | 511.065 | CUNETA |
| 1368 | 2017218.077 | 4928998.542 | 510.737 | CUNETA |
| 1369 | 2017217.921 | 4928998.040 | 510.755 | CUNETA |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1370 | 2017217.887 | 4928998.014 | 511.109 | CUNETA |
| 1371 | 2017219.449 | 4928997.538 | 510.933 | CUNETA |
| 1372 | 2017219.445 | 4928997.693 | 510.598 | CUNETA |
| 1373 | 2017219.628 | 4928998.305 | 510.622 | CUNETA |
| 1374 | 2017223.529 | 4928998.936 | 510.375 | VIA |
| 1375 | 2017224.088 | 4929000.693 | 510.455 | VIA |
| 1376 | 2017224.247 | 4929001.144 | 510.313 | CUNETA |
| 1377 | 2017224.257 | 4929001.186 | 510.477 | CUNETA |
| 1378 | 2017223.950 | 4929002.292 | 512.280 | PARAM |
| 1379 | 2017223.982 | 4929002.481 | 512.265 | PARAM |
| 1380 | 2017226.878 | 4929000.446 | 510.161 | CUNETA |
| 1381 | 2017226.894 | 4929000.415 | 510.010 | CUNETA |
| 1382 | 2017226.755 | 4929000.000 | 510.122 | CUNETA |
| 1383 | 2017232.297 | 4928998.371 | 509.592 | CUNETA |
| 1384 | 2017232.304 | 4928998.328 | 509.431 | CUNETA |
| 1385 | 2017232.104 | 4928997.971 | 509.495 | CUNETA |
| 1386 | 2017231.225 | 4928995.953 | 509.410 | VIA |
| 1387 | 2017230.561 | 4928994.025 | 509.273 | VIA |
| 1388 | 2017230.326 | 4928993.455 | 509.126 | CUNETA |
| 1389 | 2017230.311 | 4928993.366 | 509.291 | CUNETA |
| 1390 | 2017230.116 | 4928992.666 | 511.467 | TN |
| 1391 | 2017232.288 | 4928991.575 | 510.860 | TN |
| 1392 | 2017233.091 | 4928992.199 | 508.959 | CUNETA |
| 1393 | 2017233.159 | 4928992.212 | 508.771 | CUNETA |
| 1394 | 2017233.443 | 4928992.413 | 508.880 | VIA |
| 1395 | 2017234.814 | 4928993.633 | 508.916 | VIA |
| 1396 | 2017236.017 | 4928994.657 | 508.940 | VIA |
| 1397 | 2017236.413 | 4928994.980 | 508.860 | CUNETA |
| 1398 | 2017236.458 | 4928995.039 | 509.028 | CUNETA |
| 1399 | 2017234.433 | 4928996.313 | 509.195 | VIA |
| 1400 | 2017234.794 | 4928996.639 | 509.112 | CUNETA |
| 1401 | 2017234.819 | 4928996.660 | 509.285 | CUNETA |
| 1402 | 2017235.156 | 4928997.202 | 511.073 | PARAM |
| 1403 | 2017236.535 | 4928995.443 | 509.144 | POST |
| 1404 | 2017239.932 | 4928993.090 | 510.517 | PARAM |
| 1405 | 2017239.445 | 4928992.310 | 510.504 | PARAM |
| 1406 | 2017238.464 | 4928991.881 | 508.709 | CUNETA |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1407 | 2017238.448 | 4928991.804 | 508.537 | CUNETA |
| 1408 | 2017238.110 | 4928991.575 | 508.597 | VIA |
| 1409 | 2017236.630 | 4928990.841 | 508.548 | VIA |
| 1410 | 2017234.688 | 4928990.176 | 508.441 | VIA |
| 1411 | 2017234.110 | 4928989.921 | 508.317 | CUNETA |
| 1412 | 2017234.028 | 4928989.942 | 508.423 | CUNETA |
| 1413 | 2017233.292 | 4928989.788 | 510.817 | TN |
| 1414 | 2017240.159 | 4928986.700 | 509.795 | PARAM |
| 1415 | 2017113.486 | 4929116.752 | 487.664 | GPS 01 - 2022 |
| 1416 | 2017153.756 | 4929069.690 | 491.619 | D2 |
| 1417 | 2017111.433 | 4929113.793 | 487.701 | PZ 1 EMSA |
| 1418 | 2017115.488 | 4929106.922 | 488.245 | GPS 2 ESP |
| 1419 | 2017096.853 | 4929131.489 | 486.569 | PARAM |
| 1420 | 2017098.367 | 4929133.001 | 486.642 | ANDEN |
| 1421 | 2017098.477 | 4929133.137 | 486.630 | BORDILLO |
| 1422 | 2017098.517 | 4929133.172 | 486.382 | VIA FLEX |
| 1423 | 2017100.190 | 4929134.555 | 486.492 | VIA FLEX |
| 1424 | 2017102.062 | 4929137.165 | 486.478 | VIA FLEX |
| 1425 | 2017102.150 | 4929137.264 | 486.554 | BORDILLO |
| 1426 | 2017102.279 | 4929137.398 | 486.550 | ANDEN NUEVO |
| 1427 | 2017104.206 | 4929140.088 | 486.475 | ANDEN NUEVO |
| 1428 | 2017111.684 | 4929133.938 | 487.129 | ANDEN NUEVO |
| 1429 | 2017109.786 | 4929131.312 | 487.113 | ANDEN NUEVO |
| 1430 | 2017114.565 | 4929127.450 | 487.388 | ANDEN NUEVO |
| 1431 | 2017116.915 | 4929129.606 | 487.505 | ANDEN NUEVO |
| 1432 | 2017116.924 | 4929129.623 | 487.538 | ANDEN NUEVO |
| 1433 | 2017118.976 | 4929128.399 | 487.556 | ANDEN NUEVO |
| 1434 | 2017120.473 | 4929124.314 | 487.700 | ANDEN NUEVO |
| 1435 | 2017122.167 | 4929121.881 | 488.057 | ANDEN NUEVO |
| 1436 | 2017121.324 | 4929121.206 | 487.819 | ANDEN NUEVO |
| 1437 | 2017121.384 | 4929121.182 | 487.827 | RAMPA |
| 1438 | 2017122.195 | 4929121.879 | 487.980 | RAMPA |
| 1439 | 2017124.205 | 4929119.382 | 487.571 | RAMPA |
| 1440 | 2017123.373 | 4929118.719 | 487.439 | RAMPA |
| 1441 | 2017122.727 | 4929119.200 | 487.473 | RAMPA |
| 1442 | 2017119.736 | 4929121.693 | 487.519 | RAMPA |
| 1443 | 2017120.354 | 4929122.076 | 487.748 | RAMPA |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1444 | 2017119.860 | 4929122.942 | 487.665 | RAMPA |
| 1445 | 2017119.197 | 4929122.523 | 487.471 | RAMPA |
| 1446 | 2017117.000 | 4929125.190 | 487.324 | RAMPA |
| 1447 | 2017117.502 | 4929125.797 | 487.540 | RAMPA |
| 1448 | 2017115.160 | 4929127.718 | 487.404 | RAMPA |
| 1449 | 2017114.690 | 4929127.149 | 487.228 | RAMPA |
| 1450 | 2017115.177 | 4929127.689 | 487.395 | ANDEN NUEVO |
| 1451 | 2017117.531 | 4929125.779 | 487.534 | ANDEN NUEVO |
| 1452 | 2017117.356 | 4929125.140 | 487.542 | ANDEN NUEVO |
| 1453 | 2017119.184 | 4929122.797 | 487.650 | ANDEN NUEVO |
| 1454 | 2017120.042 | 4929121.523 | 487.760 | ANDEN NUEVO |
| 1455 | 2017120.510 | 4929120.607 | 487.804 | ANDEN NUEVO |
| 1456 | 2017123.501 | 4929117.894 | 488.073 | ANDEN NUEVO |
| 1457 | 2017121.988 | 4929117.235 | 488.046 | ANDEN NUEVO |
| 1458 | 2017123.105 | 4929118.567 | 488.031 | BARANDA |
| 1459 | 2017117.160 | 4929125.048 | 487.537 | BORDILLO |
| 1460 | 2017117.103 | 4929125.022 | 487.317 | VIA FLEX |
| 1461 | 2017115.083 | 4929122.803 | 487.395 | VIA FLEX |
| 1462 | 2017113.684 | 4929120.866 | 487.452 | VIA FLEX |
| 1463 | 2017113.713 | 4929120.750 | 487.599 | BORDILLO |
| 1464 | 2017113.630 | 4929120.639 | 487.601 | ANDEN |
| 1465 | 2017112.405 | 4929119.178 | 487.531 | PARAM |
| 1466 | 2017122.819 | 4929115.351 | 488.156 | ANDEN NUEVO |
| 1467 | 2017124.561 | 4929112.673 | 488.381 | ANDEN NUEVO |
| 1468 | 2017126.529 | 4929114.236 | 488.435 | ANDEN NUEVO |
| 1469 | 2017126.930 | 4929112.026 | 488.520 | MATERA |
| 1470 | 2017126.291 | 4929112.790 | 488.450 | MATERA |
| 1471 | 2017127.001 | 4929113.400 | 488.485 | MATERA |
| 1472 | 2017127.655 | 4929112.583 | 488.546 | MATERA |
| 1473 | 2017130.476 | 4929107.665 | 488.890 | ARBOL |
| 1474 | 2017131.097 | 4929106.918 | 488.935 | ARBOL |
| 1475 | 2017131.977 | 4929107.450 | 488.940 | ARBOL |
| 1476 | 2017130.617 | 4929108.130 | 487.629 | ARBOL |
| 1477 | 2017134.598 | 4929102.687 | 489.294 | PALMA |
| 1478 | 2017135.348 | 4929103.346 | 489.337 | PALMA |
| 1479 | 2017135.939 | 4929102.779 | 489.315 | PALMA |
| 1480 | 2017135.232 | 4929102.016 | 489.435 | PALMA |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1481 | 2017128.745 | 4929111.803 | 488.645 | BARANDA |
| 1482 | 2017129.379 | 4929111.072 | 488.697 | BARANDA |
| 1483 | 2017136.741 | 4929097.794 | 489.621 | ANDEN NUEVO |
| 1484 | 2017138.800 | 4929099.514 | 489.653 | ANDEN NUEVO |
| 1485 | 2017141.250 | 4929096.072 | 489.950 | ARBOL |
| 1486 | 2017140.482 | 4929095.431 | 489.899 | ARBOL |
| 1487 | 2017141.103 | 4929094.648 | 490.054 | ARBOL |
| 1488 | 2017141.941 | 4929095.305 | 489.998 | ARBOL |
| 1489 | 2017144.512 | 4929092.984 | 490.456 | BARANDA |
| 1490 | 2017142.308 | 4929090.946 | 490.194 | ANDEN NUEVO |
| 1491 | 2017144.322 | 4929092.556 | 490.406 | ANDEN NUEVO |
| 1492 | 2017146.626 | 4929090.017 | 490.425 | ANDEN NUEVO |
| 1493 | 2017144.528 | 4929088.278 | 490.073 | ANDEN NUEVO |
| 1494 | 2017147.584 | 4929084.525 | 490.586 | ANDEN NUEVO |
| 1495 | 2017149.795 | 4929086.345 | 490.731 | ANDEN NUEVO |
| 1496 | 2017150.894 | 4929085.057 | 491.046 | ANDEN NUEVO |
| 1497 | 2017148.591 | 4929083.224 | 490.840 | ANDEN NUEVO |
| 1498 | 2017150.541 | 4929080.938 | 491.091 | ANDEN NUEVO |
| 1499 | 2017152.722 | 4929082.747 | 491.445 | ANDEN NUEVO |
| 1500 | 2017152.261 | 4929079.562 | 491.290 | VALV |
| 1501 | 2017154.706 | 4929080.636 | 491.491 | ANDEN NUEVO |
| 1502 | 2017152.414 | 4929078.764 | 491.306 | ANDEN NUEVO |
| 1503 | 2017152.490 | 4929078.680 | 491.335 | ANDEN NUEVO |
| 1504 | 2017152.463 | 4929078.421 | 491.110 | RAMPA |
| 1505 | 2017153.099 | 4929078.910 | 491.382 | RAMPA |
| 1506 | 2017154.927 | 4929077.110 | 491.488 | RAMPA |
| 1507 | 2017154.353 | 4929076.496 | 491.228 | RAMPA |
| 1508 | 2017154.613 | 4929076.561 | 491.457 | ANDEN NUEVO |
| 1509 | 2017155.688 | 4929076.506 | 491.575 | LUMINA |
| 1510 | 2017153.203 | 4929079.396 | 491.361 | POSTE |
| 1511 | 2017156.429 | 4929075.119 | 491.585 | ANDEN NUEVO |
| 1512 | 2017157.555 | 4929074.294 | 491.698 | ANDEN NUEVO |
| 1513 | 2017157.572 | 4929074.285 | 491.694 | ANDEN NUEVO |
| 1514 | 2017157.565 | 4929074.285 | 491.700 | MATERA |
| 1515 | 2017157.892 | 4929074.763 | 491.828 | MATERA |
| 1516 | 2017160.735 | 4929072.908 | 491.831 | MATERA |
| 1517 | 2017160.894 | 4929072.809 | 491.770 | MATERA |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1518 | 2017160.461 | 4929072.459 | 491.643 | MATERA |
| 1519 | 2017160.571 | 4929072.323 | 491.728 | MATERA |
| 1520 | 2017162.448 | 4929071.112 | 491.783 | MATERA |
| 1521 | 2017162.524 | 4929071.561 | 492.318 | MATERA |
| 1522 | 2017162.809 | 4929071.413 | 492.318 | RAMPA |
| 1523 | 2017163.698 | 4929070.823 | 492.366 | RAMPA |
| 1524 | 2017163.338 | 4929070.196 | 491.970 | RAMPA |
| 1525 | 2017162.451 | 4929070.772 | 491.995 | RAMPA |
| 1526 | 2017162.565 | 4929071.560 | 492.339 | ANDEN NUEVO |
| 1527 | 2017163.707 | 4929070.193 | 492.061 | MATERA |
| 1528 | 2017163.994 | 4929070.633 | 492.239 | MATERA |
| 1529 | 2017166.559 | 4929069.084 | 492.265 | MATERA |
| 1530 | 2017166.252 | 4929068.595 | 492.216 | MATERA |
| 1531 | 2017169.401 | 4929067.478 | 492.190 | MATERA |
| 1532 | 2017169.050 | 4929066.977 | 492.268 | MATERA |
| 1533 | 2017169.234 | 4929066.837 | 492.261 | MATERA |
| 1534 | 2017169.535 | 4929067.335 | 492.255 | MATERA |
| 1535 | 2017172.386 | 4929066.251 | 491.550 | MATERA |
| 1536 | 2017172.547 | 4929066.175 | 491.569 | MATERA |
| 1537 | 2017172.352 | 4929065.660 | 491.539 | MATERA |
| 1538 | 2017175.077 | 4929064.626 | 491.481 | MATERA |
| 1539 | 2017175.289 | 4929065.167 | 491.523 | MATERA |
| 1540 | 2017175.655 | 4929064.998 | 491.526 | LUMINA |
| 1541 | 2017176.255 | 4929064.174 | 491.476 | MATERA |
| 1542 | 2017176.224 | 4929064.814 | 491.458 | MATERA |
| 1543 | 2017177.191 | 4929064.626 | 491.466 | MATERA |
| 1544 | 2017176.996 | 4929064.014 | 491.511 | MATERA |
| 1545 | 2017176.249 | 4929064.218 | 491.510 | MATERA |
| 1546 | 2017177.054 | 4929064.054 | 491.480 | MATERA |
| 1547 | 2017178.011 | 4929063.802 | 491.440 | MATERA |
| 1548 | 2017178.334 | 4929064.692 | 491.402 | MATERA |
| 1549 | 2017177.430 | 4929065.048 | 491.414 | MATERA |
| 1550 | 2017178.458 | 4929064.241 | 491.446 | MATERA |
| 1551 | 2017178.285 | 4929063.731 | 491.443 | MATERA |
| 1552 | 2017181.233 | 4929062.876 | 491.309 | MATERA |
| 1553 | 2017181.407 | 4929063.445 | 491.297 | MATERA |
| 1554 | 2017181.607 | 4929063.413 | 491.296 | MATERA |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1555 | 2017185.602 | 4929062.319 | 491.055 | MATERA |
| 1556 | 2017185.487 | 4929061.712 | 491.105 | MATERA |
| 1557 | 2017185.668 | 4929061.630 | 491.102 | MATERA |
| 1558 | 2017185.744 | 4929062.247 | 491.082 | MATERA |
| 1559 | 2017189.215 | 4929061.270 | 490.906 | MATERA |
| 1560 | 2017189.107 | 4929060.709 | 490.871 | MATERA |
| 1561 | 2017189.492 | 4929061.181 | 490.922 | RAMPA |
| 1562 | 2017189.314 | 4929060.455 | 490.655 | RAMPA |
| 1563 | 2017191.810 | 4929059.754 | 490.524 | RAMPA |
| 1564 | 2017192.034 | 4929060.448 | 490.806 | RAMPA |
| 1565 | 2017192.142 | 4929059.842 | 490.700 | MATERA |
| 1566 | 2017192.309 | 4929060.401 | 490.789 | MATERA |
| 1567 | 2017194.652 | 4929059.761 | 490.653 | MATERA |
| 1568 | 2017194.710 | 4929059.936 | 490.715 | MATERA |
| 1569 | 2017194.502 | 4929059.207 | 490.639 | MATERA |
| 1570 | 2017195.465 | 4929058.943 | 490.584 | MATERA |
| 1571 | 2017195.671 | 4929058.904 | 490.574 | MATERA |
| 1572 | 2017195.840 | 4929059.439 | 490.604 | MATERA |
| 1573 | 2017195.747 | 4929059.888 | 490.593 | MATERA |
| 1574 | 2017197.196 | 4929059.085 | 490.549 | MATERA |
| 1575 | 2017197.075 | 4929058.494 | 490.457 | MATERA |
| 1576 | 2017197.659 | 4929058.897 | 490.567 | LUMINA |
| 1577 | 2017198.380 | 4929058.806 | 490.459 | MATERA |
| 1578 | 2017198.950 | 4929058.612 | 490.441 | MATERA |
| 1579 | 2017198.814 | 4929058.068 | 490.387 | MATERA |
| 1580 | 2017198.204 | 4929058.211 | 490.446 | MATERA |
| 1581 | 2017199.168 | 4929058.535 | 490.436 | MATERA |
| 1582 | 2017199.006 | 4929057.949 | 490.433 | MATERA |
| 1583 | 2017202.500 | 4929057.631 | 490.278 | MATERA |
| 1584 | 2017202.668 | 4929057.561 | 490.265 | MATERA |
| 1585 | 2017202.476 | 4929056.968 | 490.268 | MATERA |
| 1586 | 2017202.288 | 4929057.038 | 490.280 | MATERA |
| 1587 | 2017205.938 | 4929056.685 | 490.150 | MATERA |
| 1588 | 2017205.782 | 4929056.067 | 490.118 | MATERA |
| 1589 | 2017206.014 | 4929056.024 | 490.091 | MATERA |
| 1590 | 2017206.967 | 4929055.728 | 490.090 | MATERA |
| 1591 | 2017207.175 | 4929056.351 | 490.125 | MATERA |

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| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1592 | 2017207.212 | 4929056.694 | 490.101 | MATERA |
| 1593 | 2017206.241 | 4929056.981 | 490.122 | MATERA |
| 1594 | 2017209.008 | 4929055.829 | 490.046 | MATERA |
| 1595 | 2017209.222 | 4929055.770 | 490.052 | MATERA |
| 1596 | 2017209.056 | 4929055.144 | 490.053 | MATERA |
| 1597 | 2017208.863 | 4929055.183 | 490.055 | MATERA |
| 1598 | 2017211.974 | 4929054.999 | 489.976 | MATERA |
| 1599 | 2017211.818 | 4929054.411 | 489.886 | MATERA |
| 1600 | 2017211.973 | 4929054.351 | 489.915 | MATERA |
| 1601 | 2017212.154 | 4929054.932 | 489.953 | MATERA |
| 1602 | 2017213.633 | 4929054.555 | 489.905 | MATERA |
| 1603 | 2017213.453 | 4929053.971 | 489.847 | MATERA |
| 1604 | 2017213.714 | 4929054.901 | 489.861 | MATERA |
| 1605 | 2017214.688 | 4929054.631 | 489.818 | MATERA |
| 1606 | 2017214.410 | 4929053.683 | 489.841 | MATERA |
| 1607 | 2017214.846 | 4929054.198 | 489.830 | RAMPA |
| 1608 | 2017214.637 | 4929053.421 | 489.634 | RAMPA |
| 1609 | 2017216.616 | 4929053.659 | 489.771 | RAMPA |
| 1610 | 2017216.406 | 4929052.939 | 489.549 | RAMPA |
| 1611 | 2017217.517 | 4929053.389 | 489.739 | MATERA |
| 1612 | 2017217.371 | 4929052.890 | 489.628 | MATERA |
| 1613 | 2017216.744 | 4929053.072 | 489.739 | MATERA |
| 1614 | 2017217.958 | 4929053.314 | 489.764 | LUMINA |
| 1615 | 2017222.255 | 4929051.509 | 489.634 | MATERA |
| 1616 | 2017222.417 | 4929052.067 | 489.668 | MATERA |
| 1617 | 2017222.111 | 4929052.131 | 489.685 | RAMPA |
| 1618 | 2017221.878 | 4929051.426 | 489.468 | RAMPA |
| 1619 | 2017218.947 | 4929052.213 | 489.556 | RAMPA |
| 1620 | 2017219.155 | 4929052.967 | 489.742 | RAMPA |
| 1621 | 2017225.535 | 4929051.197 | 489.632 | RAMPA |
| 1622 | 2017225.399 | 4929050.634 | 489.599 | MATERA |
| 1623 | 2017225.534 | 4929051.210 | 489.646 | MATERA |
| 1624 | 2017226.418 | 4929053.499 | 489.671 | ANDEN NUEVO |
| 1625 | 2017217.638 | 4929055.391 | 489.716 | ANDEN NUEVO |
| 1626 | 2017231.761 | 4929049.653 | 489.624 | MATERA |
| 1627 | 2017231.569 | 4929048.912 | 489.618 | MATERA |
| 1628 | 2017231.540 | 4929048.818 | 489.637 | BORDILLO |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1629 | 2017232.613 | 4929051.874 | 489.646 | ANDEN NUEVO |
| 1630 | 2017231.490 | 4929048.675 | 489.437 | VIA FLEX |
| 1631 | 2017231.005 | 4929046.391 | 489.523 | VIA FLEX |
| 1632 | 2017230.843 | 4929043.730 | 489.485 | VIA FLEX |
| 1633 | 2017230.795 | 4929043.655 | 489.627 | BORDILLO |
| 1634 | 2017230.737 | 4929043.533 | 489.651 | ANDEN NUEVO |
| 1635 | 2017230.427 | 4929043.042 | 489.731 | RAMPA |
| 1636 | 2017230.633 | 4929043.768 | 489.518 | RAMPA |
| 1637 | 2017227.711 | 4929044.563 | 489.434 | RAMPA |
| 1638 | 2017227.492 | 4929043.831 | 489.620 | RAMPA |
| 1639 | 2017230.421 | 4929041.775 | 489.813 | ANDEN NUEVO |
| 1640 | 2017222.481 | 4929045.208 | 489.656 | MATERA |
| 1641 | 2017222.690 | 4929045.716 | 489.649 | MATERA |
| 1642 | 2017220.078 | 4929045.872 | 489.760 | MATERA |
| 1643 | 2017220.177 | 4929046.367 | 489.651 | MATERA |
| 1644 | 2017219.823 | 4929046.030 | 489.743 | RAMPA |
| 1645 | 2017220.011 | 4929046.715 | 489.505 | RAMPA |
| 1646 | 2017217.116 | 4929047.521 | 489.515 | RAMPA |
| 1647 | 2017216.895 | 4929046.878 | 489.819 | RAMPA |
| 1648 | 2017216.620 | 4929046.886 | 489.804 | MATERA |
| 1649 | 2017216.692 | 4929047.319 | 489.628 | MATERA |
| 1650 | 2017221.995 | 4929043.616 | 489.768 | ANDEN NUEVO |
| 1651 | 2017213.342 | 4929048.288 | 489.777 | MATERA |
| 1652 | 2017213.231 | 4929047.831 | 489.868 | MATERA |
| 1653 | 2017213.035 | 4929047.822 | 489.887 | MATERA |
| 1654 | 2017213.199 | 4929048.388 | 489.816 | MATERA |
| 1655 | 2017211.790 | 4929048.179 | 489.945 | MATERA |
| 1656 | 2017211.782 | 4929048.662 | 489.850 | MATERA |
| 1657 | 2017209.728 | 4929049.344 | 489.930 | MATERA |
| 1658 | 2017209.572 | 4929048.853 | 490.007 | MATERA |
| 1659 | 2017208.957 | 4929046.958 | 490.142 | ANDEN NUEVO |
| 1660 | 2017206.260 | 4929049.660 | 490.127 | MATERA |
| 1661 | 2017206.399 | 4929050.268 | 490.069 | MATERA |
| 1662 | 2017206.497 | 4929050.496 | 490.104 | BORDILLO |
| 1663 | 2017206.507 | 4929050.514 | 489.907 | VIA FLEX |
| 1664 | 2017206.937 | 4929052.703 | 489.930 | VIA FLEX |
| 1665 | 2017207.650 | 4929055.249 | 489.849 | VIA FLEX |

TOPOGRAFÍA
Servicios Topográficos

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1666 | 2017207.749 | 4929055.379 | 490.094 | BORDILLO |
| 1667 | 2017206.208 | 4929050.342 | 490.097 | MATERA |
| 1668 | 2017206.058 | 4929049.730 | 490.117 | MATERA |
| 1669 | 2017202.549 | 4929050.718 | 490.208 | MATERA |
| 1670 | 2017202.673 | 4929051.300 | 490.196 | MATERA |
| 1671 | 2017202.249 | 4929048.709 | 490.236 | ANDEN NUEVO |
| 1672 | 2017201.287 | 4929049.633 | 490.303 | ANDEN NUEVO |
| 1673 | 2017190.887 | 4929052.455 | 490.609 | ANDEN NUEVO |
| 1674 | 2017188.124 | 4929054.091 | 490.694 | ANDEN NUEVO |
| 1675 | 2017184.267 | 4929056.395 | 491.062 | ANDEN NUEVO |
| 1676 | 2017179.790 | 4929057.703 | 491.337 | ANDEN NUEVO |
| 1677 | 2017179.033 | 4929057.502 | 491.436 | ANDEN NUEVO |
| 1678 | 2017178.244 | 4929056.595 | 491.742 | ANDEN NUEVO |
| 1679 | 2017181.958 | 4929055.545 | 491.225 | ANDEN NUEVO |
| 1680 | 2017178.230 | 4929056.619 | 491.760 | ANDEN NUEVO |
| 1681 | 2017179.613 | 4929050.492 | 492.930 | ANDEN NUEVO |
| 1682 | 2017179.834 | 4929049.808 | 493.028 | ANDEN NUEVO |
| 1683 | 2017177.808 | 4929051.300 | 492.825 | ANDEN NUEVO |
| 1684 | 2017177.461 | 4929051.802 | 492.650 | ANDEN NUEVO |
| 1685 | 2017175.557 | 4929053.326 | 492.365 | ANDEN NUEVO |
| 1686 | 2017175.675 | 4929053.465 | 492.360 | BORDILLO |
| 1687 | 2017173.559 | 4929055.656 | 492.077 | ANDEN NUEVO |
| 1688 | 2017172.793 | 4929056.717 | 491.873 | ANDEN NUEVO |
| 1689 | 2017171.822 | 4929055.785 | 491.915 | ANDEN NUEVO |
| 1690 | 2017172.451 | 4929056.622 | 491.913 | ANDEN NUEVO |
| 1691 | 2017172.632 | 4929056.892 | 491.853 | ANDEN NUEVO |
| 1692 | 2017171.682 | 4929057.303 | 491.828 | ANDEN NUEVO |
| 1693 | 2017171.845 | 4929057.509 | 491.778 | ANDEN NUEVO |
| 1694 | 2017172.206 | 4929057.590 | 491.756 | ANDEN NUEVO |
| 1695 | 2017171.409 | 4929059.006 | 491.575 | ANDEN NUEVO |
| 1696 | 2017171.043 | 4929059.539 | 491.540 | ANDEN NUEVO |
| 1697 | 2017170.296 | 4929060.335 | 491.556 | ANDEN NUEVO |
| 1698 | 2017169.785 | 4929060.709 | 491.523 | ANDEN NUEVO |
| 1699 | 2017168.373 | 4929061.443 | 491.531 | ANDEN NUEVO |
| 1700 | 2017167.760 | 4929060.608 | 491.609 | ANDEN NUEVO |
| 1701 | 2017166.995 | 4929059.749 | 491.710 | ANDEN NUEVO |
| 1702 | 2017163.719 | 4929062.206 | 492.025 | ANDEN NUEVO |

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Servicios Topográficos

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1703 | 2017164.118 | 4929062.675 | 491.811 | ANDEN NUEVO |
| 1704 | 2017164.461 | 4929063.557 | 491.578 | ANDEN NUEVO |
| 1705 | 2017156.097 | 4929068.859 | 491.598 | ANDEN NUEVO |
| 1706 | 2017155.710 | 4929068.320 | 491.584 | ANDEN NUEVO |
| 1707 | 2017155.381 | 4929067.931 | 491.637 | ANDEN NUEVO |
| 1708 | 2017154.679 | 4929068.298 | 491.624 | ANDEN NUEVO |
| 1709 | 2017153.497 | 4929068.635 | 491.570 | ANDEN NUEVO |
| 1710 | 2017152.165 | 4929068.837 | 491.595 | ANDEN NUEVO |
| 1711 | 2017151.450 | 4929068.641 | 491.553 | ANDEN NUEVO |
| 1712 | 2017152.634 | 4929070.022 | 491.595 | ANDEN NUEVO |
| 1713 | 2017153.047 | 4929070.206 | 491.550 | ANDEN NUEVO |
| 1714 | 2017153.771 | 4929070.200 | 491.578 | ANDEN NUEVO |
| 1715 | 2017154.448 | 4929069.930 | 491.621 | ANDEN NUEVO |
| 1716 | 2017149.851 | 4929068.392 | 491.460 | ANDEN NUEVO |
| 1717 | 2017150.214 | 4929067.862 | 491.498 | ANDEN NUEVO |
| 1718 | 2017147.220 | 4929066.136 | 491.519 | ANDEN NUEVO |
| 1719 | 2017146.947 | 4929066.664 | 491.470 | ANDEN NUEVO |
| 1720 | 2017146.840 | 4929066.815 | 491.416 | BORDILLO |
| 1721 | 2017151.527 | 4929069.717 | 491.267 | VALV |
| 1722 | 2017164.294 | 4929062.728 | 491.726 | POSTE |
| 1723 | 2017184.590 | 4929057.779 | 490.896 | PZ |
| 1724 | 2017187.092 | 4929058.725 | 490.811 | PZ |
| 1725 | 2017121.271 | 4929111.343 | 488.130 | VALV |
| 1726 | 2017120.998 | 4929117.974 | 487.749 | VALV |
| 1727 | 2017113.655 | 4929107.848 | 487.986 | VALV |
| 1728 | 2017106.891 | 4929109.207 | 487.794 | POSTE |
| 1729 | 2017068.900 | 4929060.453 | 488.119 | PARAM |
| 1730 | 2017070.203 | 4929059.694 | 488.002 | PARAM |
| 1731 | 2017070.208 | 4929059.687 | 487.997 | BORDILLO |
| 1732 | 2017070.246 | 4929059.648 | 487.910 | VIA FLEX |
| 1733 | 2017072.772 | 4929057.663 | 488.032 | VIA FLEX |
| 1734 | 2017075.162 | 4929056.124 | 488.185 | VIA FLEX |
| 1735 | 2017073.565 | 4929064.628 | 487.874 | VIA FLEX |
| 1736 | 2017073.982 | 4929065.262 | 487.802 | VIA FLEX |
| 1737 | 2017074.164 | 4929065.969 | 487.854 | VIA FLEX |
| 1738 | 2017073.790 | 4929067.964 | 487.617 | VIA FLEX |
| 1739 | 2017073.754 | 4929067.940 | 487.763 | BORDILLO |

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| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1740 | 2017074.175 | 4929066.318 | 487.914 | BORDILLO |
| 1741 | 2017074.043 | 4929065.443 | 487.840 | BORDILLO |
| 1742 | 2017073.773 | 4929065.906 | 487.864 | POSTE |
| 1743 | 2017072.863 | 4929067.021 | 487.903 | PARAM |
| 1744 | 2017076.068 | 4929070.528 | 487.783 | VIA FLEX |
| 1745 | 2017079.033 | 4929074.180 | 487.802 | VIA FLEX |
| 1746 | 2017080.124 | 4929074.349 | 487.900 | VIA FLEX |
| 1747 | 2017080.139 | 4929074.413 | 488.036 | ANDEN |
| 1748 | 2017079.056 | 4929074.196 | 487.944 | ANDEN |
| 1749 | 2017079.769 | 4929073.592 | 487.854 | POSTE |
| 1750 | 2017080.801 | 4929074.732 | 487.814 | POSTE |
| 1751 | 2016996.667 | 4929121.653 | 481.789 | ANDEN |
| 1752 | 2016996.004 | 4929123.006 | 481.871 | ANDEN |
| 1753 | 2016992.673 | 4929130.414 | 481.573 | ANDEN |
| 1754 | 2016991.495 | 4929132.384 | 481.700 | PARAM |
| 1755 | 2016989.298 | 4929128.264 | 481.654 | PARAM |
| 1756 | 2016992.716 | 4929130.443 | 481.300 | VIA FLEX |
| 1757 | 2016990.343 | 4929126.240 | 481.234 | VIA FLEX |
| 1758 | 2016989.379 | 4929125.518 | 481.234 | VIA FLEX |
| 1759 | 2016987.911 | 4929125.632 | 481.136 | VIA FLEX |
| 1760 | 2016987.965 | 4929125.673 | 481.320 | BORDILLO |
| 1761 | 2016989.372 | 4929125.567 | 481.416 | BORDILLO |
| 1762 | 2016990.122 | 4929126.045 | 481.451 | BORDILLO |
| 1763 | 2016990.497 | 4929126.488 | 481.282 | RAMPA |
| 1764 | 2016989.789 | 4929126.928 | 481.524 | RAMPA |
| 1765 | 2016990.652 | 4929128.441 | 481.569 | RAMPA |
| 1766 | 2016991.071 | 4929128.145 | 481.323 | RAMPA |
| 1767 | 2016991.363 | 4929127.992 | 481.273 | RAMPA |
| 1768 | 2016991.059 | 4929129.118 | 481.639 | PZ |
| 1769 | 2016995.569 | 4929128.502 | 481.575 | VIA FLEX |
| 1770 | 2016998.162 | 4929127.246 | 481.807 | VIA FLEX |
| 1771 | 2016998.188 | 4929127.159 | 482.010 | ANDEN |
| 1772 | 2016995.842 | 4929123.024 | 481.721 | VIA FLEX |
| 1773 | 2016996.621 | 4929121.683 | 481.634 | VIA FLEX |
| 1774 | 2016994.630 | 4929117.786 | 481.885 | VIA FLEX |
| 1775 | 2016992.482 | 4929114.064 | 481.677 | VIA FLEX |
| 1776 | 2016992.454 | 4929114.026 | 481.823 | ANDEN |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1777 | 2016991.635 | 4929114.141 | 481.806 | ANDEN |
| 1778 | 2016990.710 | 4929113.654 | 481.747 | ANDEN |
| 1779 | 2016991.583 | 4929114.265 | 481.580 | VIA FLEX |
| 1780 | 2016991.915 | 4929113.302 | 481.762 | PARAM |
| 1781 | 2016991.984 | 4929116.002 | 481.605 | PZ |
| 1782 | 2016987.307 | 4929117.364 | 481.391 | PZ |
| 1783 | 2016990.506 | 4929120.258 | 481.453 | PZ |
| 1784 | 2016986.037 | 4929122.871 | 481.119 | VIA FLEX |
| 1785 | 2016984.040 | 4929119.934 | 481.047 | VIA FLEX |
| 1786 | 2016985.010 | 4929119.146 | 481.105 | VIA FLEX |
| 1787 | 2016985.439 | 4929118.216 | 481.204 | VIA FLEX |
| 1788 | 2016985.210 | 4929116.859 | 481.310 | VIA FLEX |
| 1789 | 2016982.649 | 4929112.366 | 481.256 | VIA FLEX |
| 1790 | 2016982.612 | 4929112.389 | 481.318 | ANDEN |
| 1791 | 2016985.099 | 4929116.739 | 481.404 | ANDEN |
| 1792 | 2016985.325 | 4929117.787 | 481.399 | ANDEN |
| 1793 | 2016984.970 | 4929119.194 | 481.170 | ANDEN |
| 1794 | 2016984.353 | 4929119.743 | 481.133 | ANDEN |
| 1795 | 2016984.026 | 4929119.906 | 481.235 | ANDEN |
| 1796 | 2016982.644 | 4929116.893 | 481.328 | PARAM |
| 1797 | 2016972.804 | 4929122.319 | 480.436 | PARAM |
| 1798 | 2016974.182 | 4929125.373 | 480.403 | ANDEN |
| 1799 | 2016974.275 | 4929125.459 | 480.385 | VIA FLEX |
| 1800 | 2016975.833 | 4929128.127 | 480.441 | VIA FLEX |
| 1801 | 2016977.602 | 4929131.458 | 480.455 | VIA FLEX |
| 1802 | 2016977.663 | 4929131.509 | 480.652 | ANDEN |
| 1803 | 2016978.366 | 4929133.330 | 480.745 | PARAM |
| 1804 | 2016987.720 | 4929125.792 | 481.112 | RAMPA |
| 1805 | 2016988.097 | 4929126.438 | 481.328 | RAMPA |
| 1806 | 2016986.443 | 4929127.359 | 481.410 | RAMPA |
| 1807 | 2016986.035 | 4929126.756 | 481.168 | RAMPA |
| 1808 | 2016980.846 | 4929112.511 | 481.777 | PARAM |
| 1809 | 2016985.739 | 4929110.552 | 481.366 | VIA FLEX |
| 1810 | 2016987.985 | 4929109.548 | 481.822 | VIA FLEX |
| 1811 | 2016988.048 | 4929109.460 | 482.044 | ANDEN |
| 1812 | 2016996.613 | 4929121.706 | 481.630 | PARAM RF 1.25 |
| 1813 | 2016996.163 | 4929123.421 | 481.613 | PARAM RF 1.25 |

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**Correo electrónico:** velasquezmaycol@gmail.com

TOPOGRAFÍA
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| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1814 | 2016998.271 | 4929127.085 | 481.643 | PARAM RF 1.25 |
| 1815 | 2017018.499 | 4929104.439 | 483.369 | PZ 6 |
| 1816 | 2017035.784 | 4929094.216 | 484.742 | VIA FLEX |
| 1817 | 2017033.903 | 4929090.623 | 484.635 | VIA FLEX |
| 1818 | 2017033.817 | 4929090.631 | 484.735 | ANDEN |
| 1819 | 2017033.478 | 4929089.801 | 484.770 | PARAM |
| 1820 | 2017037.369 | 4929098.107 | 484.562 | VIA FLEX |
| 1821 | 2017037.445 | 4929098.180 | 484.749 | ANDEN |
| 1822 | 2017037.981 | 4929099.394 | 484.731 | PARAM |
| 1823 | 2017158.653 | 4929024.657 | 500.692 | PARAM |
| 1824 | 2017148.427 | 4928989.951 | 519.424 | TN |
| 1825 | 2017148.823 | 4928989.188 | 519.041 | CUNETA |
| 1826 | 2017148.824 | 4928989.158 | 518.947 | CUNETA |
| 1827 | 2017149.002 | 4928988.851 | 518.972 | VIA FLEX |
| 1828 | 2017150.165 | 4928987.249 | 518.745 | VIA FLEX |
| 1829 | 2017151.091 | 4928985.750 | 518.585 | VIA FLEX |
| 1830 | 2017151.217 | 4928985.620 | 518.514 | CUNETA |
| 1831 | 2017151.246 | 4928985.543 | 518.009 | CUNETA |
| 1832 | 2017151.503 | 4928985.205 | 517.961 | CUNETA |
| 1833 | 2017151.598 | 4928985.113 | 518.722 | CUNETA |
| 1834 | 2017151.859 | 4928984.640 | 519.498 | CUNETA |
| 1835 | 2017152.116 | 4928984.502 | 519.406 | TN |

## 1. PROFESIONAL RESPONSABLE

**MAYCOL ALIRIO VELÁSQUEZ ORTIZ**
C.C: 1121880977
Topógrafo - M.P. 01 – 15486 C.P.N.T.


República de Colombia

CONSEJO PROFESIONAL NACIONAL DE TOPOGRAFIA

Nombre: MAYCOL ALIRIO VELASQUEZ ORTIZ

Cédula: 1.121.880.977

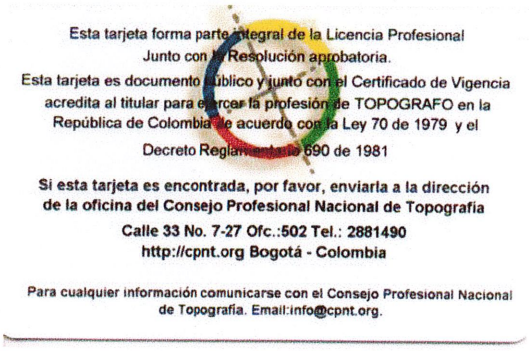
Licencia Profesional No. 01-15486

Resolución: 02-5487 - 27/02/2015

TECNOLOGO EN TOPOGRAFIA

UNIVERSIDAD DEL QUINDIO

Vicepresidente


Esta tarjeta forma parte integral de la Licencia Profesional Junto con la Resolución aprobatoria.

Esta tarjeta es documento público y junto con el Certificado de Vigencia acredita al titular para ejercer la profesión de TOPOGRAFO en la República de Colombia de acuerdo con la Ley 70 de 1979 y el Decreto Reglamentario 690 de 1981

**Si esta tarjeta es encontrada, por favor, enviarla a la dirección de la oficina del Consejo Profesional Nacional de Topografía**

**Calle 33 No. 7-27 Ofc.:502 Tel.: 2881490**
**http://cpnt.org Bogotá - Colombia**

Para cualquier información comunicarse con el Consejo Profesional Nacional de Topografía. Email:info@cpnt.org.


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Consejo Profesional Nacional de Ingeniería

25202-437597 CND

Fecha de Expedición 24/10/2019

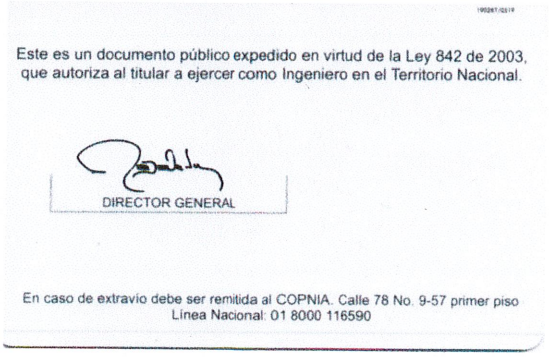
Matrícula Profesional

Nombre:
MAYCOL ALIRIO
VELASQUEZ ORTIZ

Identificación:
C.C. 1121880977

Profesión:
INGENIERO CIVIL

Institución:
UNIVERSIDAD COOPERATIVA
DE COLOMBIA


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DIRECTOR GENERAL

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Línea Nacional: 01 8000 116590

# ORIGEN BOGOTA

TOPOGRAFÍA
Servicios Topográficos

# CARTERA TOPOGRÁFICA

PROYECTO: PARQUE INFANTIL
MUNICIPIO DE VILLAVICENCIO - META




**2025**

**Dirección:** Calle 37 Bis # 24 – 62 Villavicencio - Meta
**Teléfono:** (+57) 3143468758
**Correo electrónico:** velasquezmaycol@gmail.com

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 1 | 951189.364 | 1048702.849 | 487.641 | GPS 01 |
| 2 | 951226.223 | 1048648.719 | 491.593 | GPS 02 |
| 3 | 951185.914 | 1048686.641 | 488.278 | PLACA |
| 4 | 951183.900 | 1048696.520 | 487.648 | GPS1 |
| 5 | 951224.124 | 1048649.309 | 491.618 | D2CH |
| 6 | 951241.720 | 1048635.673 | 492.339 | PARA |
| 7 | 951242.265 | 1048636.670 | 491.833 | ANDEN |
| 8 | 951242.787 | 1048637.191 | 491.802 | SARD |
| 9 | 951242.857 | 1048637.214 | 491.605 | VIA |
| 10 | 951241.628 | 1048639.338 | 491.434 | VIA |
| 11 | 951241.581 | 1048639.256 | 491.562 | SARD |
| 12 | 951240.297 | 1048640.448 | 491.509 | SARD |
| 13 | 951240.285 | 1048640.457 | 491.452 | VIA |
| 14 | 951236.454 | 1048642.452 | 491.481 | VIA |
| 15 | 951236.446 | 1048642.412 | 491.594 | SARD |
| 16 | 951236.297 | 1048640.131 | 491.637 | ANDEN |
| 17 | 951234.368 | 1048642.563 | 491.632 | POST |
| 18 | 951231.693 | 1048643.189 | 492.338 | PARA |
| 19 | 951231.860 | 1048643.273 | 492.085 | ESC |
| 20 | 951231.964 | 1048643.401 | 492.084 | ESC |
| 21 | 951232.002 | 1048643.428 | 491.891 | ESC |
| 22 | 951232.152 | 1048643.620 | 491.874 | ESC |
| 23 | 951232.215 | 1048643.671 | 491.661 | ANDEN |
| 24 | 951232.658 | 1048644.681 | 491.622 | SARD |
| 25 | 951232.690 | 1048644.708 | 491.479 | VIA |
| 26 | 951226.881 | 1048648.458 | 491.426 | VIA |
| 27 | 951226.860 | 1048648.409 | 491.643 | SARD |
| 28 | 951226.583 | 1048647.587 | 491.665 | ANDEN |
| 29 | 951226.701 | 1048647.444 | 491.844 | ESC |
| 30 | 951226.604 | 1048647.241 | 491.859 | ESC |
| 31 | 951226.542 | 1048647.211 | 492.028 | ESC |
| 32 | 951226.424 | 1048646.911 | 492.036 | ESC |
| 33 | 951226.411 | 1048646.917 | 492.168 | ESC |
| 34 | 951224.953 | 1048649.756 | 491.373 | VIA |
| 35 | 951224.954 | 1048649.652 | 491.638 | SARD |
| 36 | 951224.582 | 1048648.140 | 491.668 | ANDEN |
| 37 | 951223.076 | 1048648.356 | 491.630 | ANDEN |

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| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 38 | 951222.963 | 1048649.791 | 491.607 | SARD |
| 39 | 951222.912 | 1048649.842 | 491.347 | VIA |
| 40 | 951220.555 | 1048651.752 | 491.297 | PZ |
| 41 | 951222.171 | 1048656.630 | 491.183 | PZ |
| 42 | 951192.374 | 1048642.897 | 491.034 | D1 |
| 43 | 951224.122 | 1048649.309 | 491.627 | D2 |
| 44 | 951215.581 | 1048658.823 | 491.009 | SARD |
| 45 | 951215.649 | 1048658.806 | 490.816 | VIA |
| 46 | 951214.188 | 1048657.567 | 491.102 | ANDEN |
| 47 | 951214.148 | 1048657.547 | 491.240 | SARD |
| 48 | 951213.969 | 1048657.490 | 491.217 | SARD |
| 49 | 951217.566 | 1048660.383 | 490.847 | VIA |
| 50 | 951223.285 | 1048664.761 | 491.260 | PARA |
| 51 | 951217.849 | 1048664.037 | 490.595 | SARD |
| 52 | 951217.974 | 1048664.175 | 490.626 | SARD |
| 53 | 951221.351 | 1048667.106 | 490.634 | PARA |
| 54 | 951214.814 | 1048667.756 | 490.256 | SARD |
| 55 | 951216.327 | 1048673.488 | 490.094 | PARA |
| 56 | 951210.523 | 1048673.064 | 490.027 | SARD |
| 57 | 951210.477 | 1048673.034 | 489.844 | VIA |
| 58 | 951208.440 | 1048671.334 | 489.891 | VIA |
| 59 | 951206.748 | 1048669.773 | 489.853 | VIA |
| 60 | 951206.691 | 1048669.724 | 490.046 | SARD |
| 61 | 951205.372 | 1048668.417 | 490.097 | ANDEN |
| 62 | 951204.775 | 1048668.861 | 490.196 | SARD |
| 63 | 951205.092 | 1048670.483 | 489.948 | POST |
| 64 | 951204.886 | 1048668.977 | 490.192 | SARD |
| 65 | 951199.644 | 1048675.136 | 489.642 | SARD |
| 66 | 951199.827 | 1048675.136 | 489.652 | SARD |
| 67 | 951199.877 | 1048675.165 | 489.514 | ANDEN |
| 68 | 951201.386 | 1048676.213 | 489.472 | SARD |
| 69 | 951201.570 | 1048676.112 | 489.292 | VIA |
| 70 | 951203.862 | 1048677.353 | 489.384 | VIA |
| 71 | 951205.991 | 1048678.556 | 489.377 | VIA |
| 72 | 951206.047 | 1048678.574 | 489.552 | SARD |
| 73 | 951208.404 | 1048680.235 | 489.592 | ANDEN |
| 74 | 951205.544 | 1048682.324 | 489.361 | PALM |

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**Correo electrónico:** velasquezmaycol@gmail.com

TOPOGRAFÍA
Servicios Topográficos

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 75 | 951201.770 | 1048687.398 | 488.752 | ARB |
| 76 | 951198.123 | 1048696.669 | 487.353 | PARA |
| 77 | 951196.559 | 1048695.049 | 487.334 | ANDEN |
| 78 | 951213.052 | 1048677.640 | 488.371 | PARA |
| 79 | 951211.822 | 1048676.709 | 488.351 | ANDEN |
| 80 | 951196.380 | 1048695.177 | 488.333 | ANDEN |
| 81 | 951194.881 | 1048692.333 | 488.388 | SARD |
| 82 | 951194.853 | 1048692.268 | 488.210 | VIA |
| 83 | 951193.284 | 1048690.465 | 488.264 | VIA |
| 84 | 951191.286 | 1048688.828 | 488.221 | VIA |
| 85 | 951191.226 | 1048688.794 | 488.391 | SARD |
| 86 | 951190.999 | 1048689.037 | 488.184 | SARD |
| 87 | 951190.507 | 1048688.398 | 488.380 | SARD |
| 88 | 951188.985 | 1048688.891 | 488.311 | SARD |
| 89 | 951188.960 | 1048689.598 | 488.117 | VIA |
| 90 | 951186.102 | 1048688.703 | 488.043 | VIA |
| 91 | 951186.715 | 1048688.194 | 488.265 | SARD |
| 92 | 951185.971 | 1048688.435 | 488.229 | SARD |
| 93 | 951189.504 | 1048691.342 | 488.025 | PZ |
| 94 | 951191.690 | 1048691.048 | 488.156 | VALVUL |
| 95 | 951193.245 | 1048694.837 | 488.021 | VIA |
| 96 | 951193.239 | 1048694.898 | 488.182 | SARD |
| 97 | 951195.189 | 1048696.206 | 488.213 | ANDEN |
| 98 | 951193.955 | 1048697.642 | 488.080 | ANDEN |
| 99 | 951193.517 | 1048698.295 | 488.039 | ANDEN |
| 100 | 951191.924 | 1048697.753 | 488.004 | SARD |
| 101 | 951191.897 | 1048697.726 | 487.816 | VIA |
| 102 | 951190.697 | 1048700.318 | 487.614 | VIA |
| 103 | 951190.774 | 1048700.345 | 487.821 | SARD |
| 104 | 951191.769 | 1048700.976 | 487.833 | ANDEN |
| 105 | 951192.788 | 1048701.740 | 487.831 | ANDEN |
| 106 | 951192.856 | 1048701.825 | 487.296 | ANDEN |
| 107 | 951192.838 | 1048703.295 | 487.319 | PARA |
| 108 | 951191.013 | 1048704.135 | 487.473 | ANDEN |
| 109 | 951190.930 | 1048704.089 | 487.653 | ANDEN |
| 110 | 951189.538 | 1048702.485 | 487.641 | SARD |
| 111 | 951189.692 | 1048702.244 | 487.475 | SARD |

TOPOGRAFÍA
Servicios Topográficos

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 112 | 951190.283 | 1048702.698 | 487.680 | SARD |
| 113 | 951190.814 | 1048701.826 | 487.749 | ANDEN |
| 114 | 951190.138 | 1048701.467 | 487.540 | SARD |
| 115 | 951190.272 | 1048701.221 | 487.757 | SARD |
| 116 | 951187.632 | 1048704.813 | 487.561 | SARD |
| 117 | 951187.402 | 1048704.999 | 487.331 | VIA |
| 118 | 951187.962 | 1048705.555 | 487.540 | ANDEN |
| 119 | 951185.642 | 1048707.470 | 487.420 | ANDEN |
| 120 | 951185.209 | 1048706.831 | 487.215 | VIA |
| 121 | 951184.969 | 1048707.029 | 487.389 | SARD |
| 122 | 951183.925 | 1048704.597 | 487.294 | VIA |
| 123 | 951182.358 | 1048702.026 | 487.320 | VIA |
| 124 | 951183.912 | 1048700.803 | 487.418 | ANDEN |
| 125 | 951183.448 | 1048700.163 | 487.635 | ANDEN |
| 126 | 951184.119 | 1048700.550 | 487.621 | SARD |
| 127 | 951184.290 | 1048698.807 | 487.678 | SARD |
| 128 | 951184.339 | 1048698.737 | 487.513 | VIA |
| 129 | 951182.820 | 1048698.902 | 487.665 | PARA |
| 130 | 951189.464 | 1048708.193 | 487.593 | PARA |
| 131 | 951186.227 | 1048714.457 | 487.163 | PARA |
| 132 | 951181.643 | 1048709.769 | 487.224 | SARD |
| 133 | 951181.535 | 1048709.740 | 487.003 | VIA |
| 134 | 951180.597 | 1048707.954 | 487.060 | VIA |
| 135 | 951179.451 | 1048712.745 | 486.912 | PALM |
| 136 | 951184.062 | 1048708.656 | 487.265 | ARB |
| 137 | 951189.579 | 1048699.560 | 487.614 | PZ |
| 138 | 951172.789 | 1048685.615 | 487.878 | PARA |
| 139 | 951174.399 | 1048685.662 | 487.851 | ANDEN |
| 140 | 951174.459 | 1048685.635 | 487.702 | VIA |
| 141 | 951176.641 | 1048681.796 | 488.038 | VIA |
| 142 | 951178.791 | 1048679.169 | 488.140 | VIA |
| 143 | 951178.816 | 1048679.075 | 488.336 | SARD |
| 144 | 951180.151 | 1048677.673 | 488.341 | ANDEN |
| 145 | 951180.173 | 1048677.701 | 488.427 | SARD |
| 146 | 951180.233 | 1048677.610 | 488.434 | SARD |
| 147 | 951177.192 | 1048688.554 | 487.731 | POST |
| 148 | 951167.898 | 1048676.561 | 487.801 | POST |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 149 | 951173.875 | 1048671.956 | 488.385 | POST |
| 150 | 951171.217 | 1048668.227 | 488.397 | SENAL |
| 151 | 951167.714 | 1048661.182 | 488.499 | SARD |
| 152 | 951167.632 | 1048661.245 | 488.490 | SARD |
| 153 | 951167.676 | 1048661.230 | 489.057 | MUR |
| 154 | 951171.880 | 1048658.495 | 489.623 | MUR |
| 155 | 951171.778 | 1048658.291 | 489.629 | MUR |
| 156 | 951171.880 | 1048658.496 | 489.514 | ZV |
| 157 | 951171.775 | 1048658.310 | 489.620 | ZV |
| 158 | 951167.681 | 1048660.899 | 489.056 | ZV |
| 159 | 951167.798 | 1048661.170 | 488.480 | ZV |
| 160 | 951164.501 | 1048657.080 | 488.446 | ANDEN |
| 161 | 951162.975 | 1048658.113 | 488.443 | SARD |
| 162 | 951162.884 | 1048658.063 | 488.247 | VIA |
| 163 | 951160.352 | 1048660.131 | 488.160 | VIA |
| 164 | 951157.493 | 1048663.264 | 487.832 | VIA |
| 165 | 951157.400 | 1048663.285 | 488.049 | ANDEN |
| 166 | 951156.539 | 1048664.109 | 488.084 | PARA |
| 167 | 951149.710 | 1048655.152 | 488.081 | PARA |
| 168 | 951151.313 | 1048654.889 | 487.879 | POST |
| 169 | 951150.414 | 1048653.478 | 487.875 | POST |
| 170 | 951154.504 | 1048652.714 | 488.126 | VIA |
| 171 | 951157.414 | 1048650.746 | 488.324 | VIA |
| 172 | 951157.434 | 1048650.772 | 488.493 | SARD |
| 173 | 951157.336 | 1048649.887 | 488.363 | VIA |
| 174 | 951157.356 | 1048649.897 | 488.516 | SARD |
| 175 | 951157.718 | 1048649.180 | 488.445 | VIA |
| 176 | 951157.694 | 1048649.149 | 488.568 | SARD |
| 177 | 951158.361 | 1048649.956 | 488.578 | GPS2 |
| 178 | 951158.587 | 1048651.581 | 488.498 | SENAL |
| 179 | 951159.318 | 1048652.698 | 488.498 | SENAL |
| 180 | 951159.718 | 1048650.518 | 488.512 | ANDEN |
| 181 | 951159.849 | 1048650.539 | 488.569 | ZV |
| 182 | 951159.866 | 1048650.374 | 488.664 | MURO |
| 183 | 951159.900 | 1048650.441 | 488.663 | MURO |
| 184 | 951160.064 | 1048650.952 | 488.582 | MURO |
| 185 | 951159.994 | 1048650.981 | 488.588 | MURO |

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 186 | 951162.333 | 1048654.071 | 488.556 | MURO |
| 187 | 951162.364 | 1048654.159 | 489.106 | MURO |
| 188 | 951162.492 | 1048653.895 | 489.138 | MURO |
| 189 | 951162.713 | 1048653.981 | 489.145 | MURO |
| 190 | 951162.793 | 1048654.426 | 489.129 | MURO |
| 191 | 951162.694 | 1048654.512 | 489.121 | MURO |
| 192 | 951162.620 | 1048654.111 | 489.106 | ZV |
| 193 | 951177.026 | 1048672.570 | 488.622 | BASUR |
| 194 | 951177.281 | 1048672.898 | 488.613 | BASUR |
| 195 | 951175.142 | 1048681.254 | 487.972 | PZ |
| 196 | 951184.058 | 1048687.607 | 488.010 | VALVUL |
| 197 | 951153.195 | 1048643.477 | 488.328 | PZ |
| 198 | 951150.704 | 1048648.898 | 488.023 | PZ |
| 199 | 951153.469 | 1048642.480 | 488.363 | VIA |
| 200 | 951153.474 | 1048642.486 | 488.861 | ANDEN |
| 201 | 951152.902 | 1048641.379 | 488.905 | PARA |
| 202 | 951151.488 | 1048643.255 | 488.309 | SARD |
| 203 | 951151.497 | 1048643.310 | 488.204 | VIA |
| 204 | 951150.570 | 1048642.739 | 488.162 | VIA |
| 205 | 951150.448 | 1048642.631 | 488.202 | SARD |
| 206 | 951138.985 | 1048626.840 | 488.333 | SARD |
| 207 | 951138.945 | 1048626.788 | 488.178 | VIA |
| 208 | 951140.973 | 1048625.326 | 488.880 | PA.50 |
| 209 | 951136.271 | 1048628.114 | 488.112 | VIA |
| 210 | 951133.528 | 1048629.343 | 487.992 | VIA |
| 211 | 951133.515 | 1048629.329 | 488.082 | SARD |
| 212 | 951132.314 | 1048630.168 | 488.106 | PARA |
| 213 | 951131.239 | 1048626.539 | 488.127 | SENAL |
| 214 | 951140.442 | 1048640.621 | 487.957 | SENAL |
| 215 | 951144.340 | 1048645.959 | 487.921 | POST |
| 216 | 951182.441 | 1048680.821 | 488.333 | ANDEN |
| 217 | 951182.589 | 1048680.759 | 488.425 | SARD |
| 218 | 951182.625 | 1048680.778 | 488.365 | ZV |
| 219 | 951182.864 | 1048680.390 | 488.519 | ZV |
| 220 | 951181.407 | 1048678.527 | 488.491 | ZV |
| 221 | 951182.771 | 1048680.908 | 488.330 | ESC |
| 222 | 951182.794 | 1048680.870 | 488.507 | ESC |

TOPOGRAFÍA
Servicios Topográficos

| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 223 | 951182.995 | 1048680.727 | 488.507 | ESC |
| 224 | 951183.049 | 1048680.700 | 488.649 | ESC |
| 225 | 951183.297 | 1048680.536 | 488.652 | ESC |
| 226 | 951183.326 | 1048680.513 | 488.810 | ESC |
| 227 | 951183.665 | 1048680.300 | 488.795 | ESC |
| 228 | 951185.465 | 1048682.590 | 488.776 | ESC |
| 229 | 951185.268 | 1048683.002 | 488.783 | ESC |
| 230 | 951185.236 | 1048683.047 | 488.638 | ESC |
| 231 | 951185.082 | 1048683.358 | 488.626 | ESC |
| 232 | 951185.082 | 1048683.410 | 488.477 | ESC |
| 233 | 951184.914 | 1048683.627 | 488.492 | ESC |
| 234 | 951184.892 | 1048683.692 | 488.304 | ANDEN |
| 235 | 951187.796 | 1048683.542 | 488.398 | ANDEN |
| 236 | 951187.775 | 1048683.524 | 488.464 | ESC |
| 237 | 951187.569 | 1048683.230 | 488.471 | ESC |
| 238 | 951187.538 | 1048683.231 | 488.616 | ESC |
| 239 | 951187.706 | 1048682.877 | 488.625 | ESC |
| 240 | 951187.721 | 1048682.845 | 488.765 | ESC |
| 241 | 951187.967 | 1048682.380 | 488.782 | ESC |
| 242 | 951190.202 | 1048685.308 | 488.703 | ESC |
| 243 | 951189.786 | 1048685.422 | 488.688 | ESC |
| 244 | 951189.702 | 1048685.429 | 488.541 | ESC |
| 245 | 951189.414 | 1048685.534 | 488.541 | ESC |
| 246 | 951189.384 | 1048685.544 | 488.348 | ANDEN |
| 247 | 951192.054 | 1048684.797 | 488.628 | ANDEN |
| 248 | 951191.994 | 1048684.790 | 488.755 | ANDEN |
| 249 | 951192.601 | 1048684.148 | 488.744 | ANDEN |
| 250 | 951192.554 | 1048684.137 | 488.811 | ANDEN |
| 251 | 951192.578 | 1048684.121 | 488.895 | SARD |
| 252 | 951192.441 | 1048684.000 | 488.898 | SARD |
| 253 | 951192.402 | 1048683.986 | 488.809 | ANDEN |
| 254 | 951192.027 | 1048683.326 | 488.784 | ANDEN |
| 255 | 951192.065 | 1048683.260 | 488.880 | SARD |
| 256 | 951192.136 | 1048683.240 | 488.886 | SARD |
| 257 | 951192.473 | 1048683.909 | 488.745 | ZV |
| 258 | 951191.060 | 1048680.420 | 488.902 | ZV |
| 259 | 951191.033 | 1048680.417 | 488.915 | SARD |

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| CARTERA TOPOGRAFICA | | | | |
|---|---|---|---|---|
| PUNTO | NORTE | ESTE | COTA | DESCRIPCION |
| 260 | 951190.938 | 1048680.471 | 488.926 | SARD |
| 261 | 951190.931 | 1048680.440 | 488.814 | ANDEN |
| 262 | 951190.716 | 1048677.826 | 488.860 | RAMP |
| 263 | 951190.721 | 1048677.816 | 488.955 | SARD |
| 264 | 951190.826 | 1048677.810 | 488.954 | SARD |
| 265 | 951190.863 | 1048677.813 | 488.955 | ZV |
| 266 | 951190.742 | 1048675.769 | 489.326 | ZV |
| 267 | 951190.703 | 1048675.732 | 489.469 | SARD |
| 268 | 951190.595 | 1048675.766 | 489.466 | SARD |
| 269 | 951190.581 | 1048675.722 | 489.371 | RAMP |
| 270 | 951189.763 | 1048675.808 | 489.370 | RAMP |
| 271 | 951189.769 | 1048676.190 | 489.357 | ESC |
| 272 | 951189.785 | 1048676.224 | 489.197 | ESC |
| 273 | 951189.771 | 1048676.561 | 489.201 | ESC |
| 274 | 951189.751 | 1048676.579 | 489.045 | ESC |
| 275 | 951189.771 | 1048676.867 | 489.044 | ESC |
| 276 | 951189.757 | 1048676.924 | 488.837 | ANDEN |
| 277 | 951189.857 | 1048677.855 | 488.854 | RAMP |
| 278 | 951184.654 | 1048679.768 | 488.826 | CASETA |
| 279 | 951183.932 | 1048679.569 | 488.831 | CASETA |
| 280 | 951184.988 | 1048678.570 | 488.823 | CASETA |
| 281 | 951190.354 | 1048670.163 | 489.499 | ZV |
| 282 | 951190.291 | 1048670.158 | 489.537 | SARD |
| 283 | 951190.222 | 1048670.152 | 489.536 | SARD |
| 284 | 951190.180 | 1048670.143 | 489.440 | ANDEN |
| 285 | 951190.288 | 1048669.974 | 489.453 | SARD |
| 286 | 951190.288 | 1048670.005 | 489.533 | SARD |
| 287 | 951190.321 | 1048670.082 | 489.528 | SARD |
| 288 | 951189.915 | 1048619.603 | 494.530 | ESCALERA |
| 289 | 951192.541 | 1048669.663 | 489.581 | BASURA |
| 290 | 951192.999 | 1048669.486 | 489.591 | BASURA |
| 291 | 951194.946 | 1048667.534 | 489.642 | ZV |
| 292 | 951197.168 | 1048668.554 | 489.831 | ZV |
| 293 | 951200.639 | 1048669.034 | 490.025 | ZV |
| 294 | 951198.869 | 1048672.081 | 489.889 | PALM |
| 295 | 951194.802 | 1048679.995 | 489.396 | PALM |
| 296 | 951191.424 | 1048679.493 | 488.987 | PALM |