**INFORME DE ACTIVIDADES NO. 2**

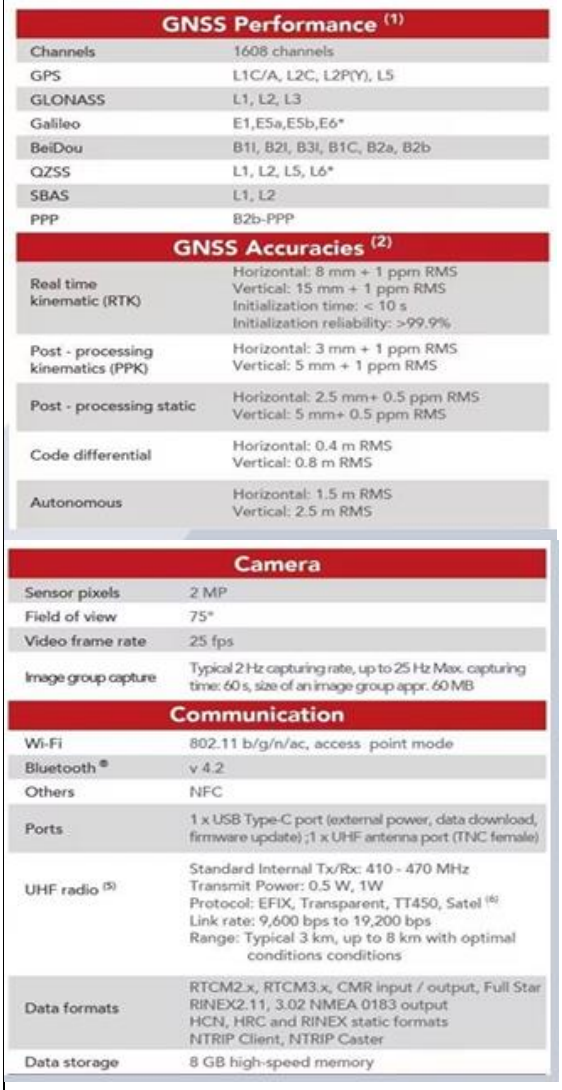
## I. CONTRATO

| | |
|---|---|
| **NÚMERO DE CONTRATO** | 086-2024 |
| **FECHA** | 13 DE JUNIO DE 2024 |
| **CONTRATANTE** | MUNICIPIO DE VALPARAÍSO |
| **IDENTIFICACIÓN** | NIT NO. 800.050.407-1 |
| **CONTRATISTA** | FOR+W CONSTRUCTORA SAS |
| **NIT** | 901.337.659 - 9 |
| **OBJETO** | PRESTAR SERVICIOS PROFESIONALES ESPECIALIZADOS EN TOPOGRAFÍA PARA REALIZAR ESTUDIOS Y DISEOS, TRAZADOS Y TOMA DE DATOS TOPOGRÁFICOS A LOS PROYECTOS QUE SE ESTRUCTUREN EN LA SECRETARIA DE PLANEACIÓN, DESARROLLO E INFRAESTRUCTURA DEL MUNICIPIO DE VALPARAISO, CAQUETÁ |
| **FECHA DE INICIO** | 18 DE JUNIO DE 2024 |
| **PLAZO DE EJECUCIÓN INICIAL** | CUATRO (04) MESES CONTADOS A PARTIR DE LA SUSCRIPCION DEL ACTA DE INICIO, EN TODO CASO SIN SUPERAR EL 30 DE DICIEMBRE DE 2024 |
| **VALOR TOTAL DEL CONTRATO** | $24.000.000 M/CTE |
| **FORMA DE PAGO** | CUATRO (04) PAGOS PROPORCIONALES A LA ENTREGA DE LOS INFORMES, CADA UNO POR VALOR DE SEIS MILLONES DE PESOS MCTE ($6.000.000,00) |
| **PERIODO** | 01 DE JULIO DE 2024 AL 31 DE JULIO DE 2024 |

## II. INFORME DE ACTIVIDADES

El suscrito **FOR+W CONSTRUCTORA SAS,** en calidad de contratista del contrato No. 086-2024, suscrito con la alcaldía municipal de Valparaíso Caquetá; describe a continuación las actividades realizadas conforme a las obligaciones objeto del contrato para el período comprendido entre el **01 DE JULIO DE 2024 AL 31 DE JULIO DE 2024**, así:

| No. | ACTIVIDADES | DESCRIPCIÓN |
|---|---|---|
| 1 | Promover las herramientas y materiales necesarios para realizar y dar cumplimiento al objeto contractual contando con equipos topográficos de alta precisión con los cuales pueda realizar las labores encomendadas, tales como estación total, nivel de precisión, prismas, bastones, trípodes, entre otras herramientas necesarias para el desarrollo contractual. | Para el desarrollo contractual de levantamiento topográfico se promovió herramientas de lata rescisión, como es el caso del equipo utilizado en campo:<br><br>1. receptor satelital de precisión GNSS RTK EFIX eBase/F8/FC2 (931117).<br><br> |

| | | |
|---|---|---|
| | | Ficha técnica:<br><br>**GNSS Performance (1)**<br>Channels: 1608 channels<br>GPS: L1C/A, L2C, L2P(Y), L5<br>GLONASS: L1, L2, L3<br>Galileo: E1,E5a,E5b,E6*<br>BeiDou: B1I, B2I, B3I, B1C, B2a, B2b<br>QZSS: L1, L2, L5, L6*<br>SBAS: L1, L2<br>PPP: B2b-PPP<br>**GNSS Accuracies (2)**<br>Real time kinematic (RTK): Horizontal: 8 mm + 1 ppm RMS; Vertical: 15 mm + 1 ppm RMS; Initialization time: < 10 s; Initialization reliability: >99.9%<br>Post - processing kinematics (PPK): Horizontal: 3 mm + 1 ppm RMS; Vertical: 5 mm + 1 ppm RMS<br>Post - processing static: Horizontal: 2.5 mm+ 0.5 ppm RMS; Vertical: 5 mm+ 0.5 ppm RMS<br>Code differential: Horizontal: 0.4 m RMS; Vertical: 0.8 m RMS<br>Autonomous: Horizontal: 1.5 m RMS; Vertical: 2.5 m RMS<br>**Camera**<br>Sensor pixels: 2 MP<br>Field of view: 75°<br>Video frame rate: 25 fps<br>Image group capture: Typical 2 Hz capturing rate, up to 25 Hz Max. capturing time: 60 s, size of an image group appr. 60 MB<br>**Communication**<br>Wi-Fi: 802.11 b/g/n/ac, access point mode<br>Bluetooth®: v 4.2<br>Others: NFC<br>Ports: 1 x USB Type-C port (external power, data download, firmware update) ;1 x UHF antenna port (TNC female)<br>UHF radio (5): Standard Internal Tx/Rx: 410 - 470 MHz; Transmit Power: 0.5 W, 1W; Protocol: EFIX, Transparent, TT450, Satel (6); Link rate: 9,600 bps to 19,200 bps; Range: Typical 3 km, up to 8 km with optimal conditions conditions<br>Data formats: RTCM2.x, RTCM3.x, CMR input / output, Full Star RINEX2.11, 3.02 NMEA 0183 output HCN, HRC and RINEX static formats NTRIP Client, NTRIP Caster<br>Data storage: 8 GB high-speed memory |
| 2 | Realizar levantamiento topográfico y replanteos de obra y proyectos de ingeniería georreferenciados a la red magna SIRGAS mediante procedimientos convencionales (GPS) a 20 km en área urbana o rural en el municipio del Valparaíso – Caquetá, detallando los cambios físicos que se puedan presentar, parámetros, calles, lados entre otros, suministrando para ello los equipos que sean necesarios. | **1. LOCALIZACIÓN DEL LUGAR OBJETO DE ESTUDIO**<br><br>Valparaíso es un municipio de Colombia en el departamento del Caquetá. Plantado sobre el piedemonte de la Cordillera Oriental, está ubicado al suroeste de Florencia, capital del departamento. El sector primario está representado por actividades agrícolas entre las que sobresalen los cultivos de productos tradicionales como Plátano, Yuca, Maíz y Caña Panelera y frutales como arazá y chontaduro principalmente; igualmente se reportan algunas hectáreas establecidas en caucho.<br><br>El levantamiento topográfico se realizó específicamente en la vereda Santiago de la selva |

Localización lugar objeto: vereda San Pedro municipio de Valparaíso. Fuente: Editado Google Earth




## 2. GEOREFERENCIACION DEL PUNTO BASE

Para garantizar la correcta ubicación del levantamiento topográfico se procede a realizar el amarre al punto materializado por el Instituto Geográfico Agustín Codazzi el cual se denomina CQT-21 y se localiza en el sector centro - oriental del casco urbano de Valparaíso con las coordenadas:

Coordenadas Navegadas MAGNA SIRGAS

Latitud (φ): 1.19420114
Longitud (λ): -75.70478111
Altura Elipsoidal (h): 251.572

Latitud: 1° 11' 39.12410" Norte
Longitud: 75° 42' 17.21200" Oeste

## 3. METODOLOGIA DEL LEVANTAMIENTO

Una vez se cuenta con el amarre a la red pasiva del Instituto Geográfico Agustín Codazzi se procede a realizar el chequeo de las coordenadas en el vértice geodésico más cercano para verificar las coordenadas, en este caso fue el CQT- 21, posteriormente se realiza el levantamiento con el equipo GNSS Rover utilizando el método de medición directa por barrido de detalles donde se toman los diferentes puntos de nivel, cercos, borde y eje de vía, entre otros puntos relevantes para un total de 596 puntos que son la base para el plano topográfico.

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**4. DESARROLLO DEL LEVANTAMIENTO**

Para realizar el levantamiento por el método RTK, se posiciona la antena GNSS base en el vértice geodésico GPS-CQT-21 (EFIX EBase) y se configura la antena con las coordenadas obtenidas mediante la página del IGAC, se realiza el chequeo el vértice GPS-CQT-21, las precisiones del levantamiento RTK está en el orden del centímetro, estableciendo un mayor número de registro de datos lo que implica establecer un mayor tiempo de registro de información.
Debido a que el levantamiento topográfico mediante metodología RTK se realizó con un punto conocido (calculado) donde cada uno de los puntos medidos ya está corregido para posteriormente descargar dicha información obtenida en campo
En el archivo en formato .csv denominado “NUBE DE PUNTOS RTK” se almacenan todas las coordenadas tomadas mediante el método RTK.
Una vez teniendo las coordenadas de cada detalle del levantamiento corregido, se procede a realizar los dibujos CAD, diseños y demás entregables.
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<td>Realizar los cálculos estructurales y representaciones graficas de las mediciones topográficas, localizar los puntos de operaciones apropiadas para efectuar levantamientos topográficos de los proyectos que la administración requiera de acuerdo de la necesidad del municipio</td>
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**1. CONVERSION DE COORDENADAS**

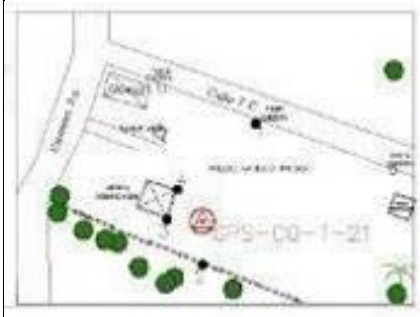
Al tener las coordenadas de georreferenciación del punto base, se tecnifican para su conversión, obteniendo los

| PUNTO | ESTE (X) | NORTE (Y) | ALTURA ELIP. |
|---|---|---|---|
| CQT-21 | 1152792,984 | 623853,805 | 251,572 |
| CQT-22 | 1152634.212 | 623354.911 | 255.461 |

**2. GEORREFERENCIA GRAFICA DEL PUNTO DE BASE**

| N° | Objeto | Azimut Magnético(°) | Distancia (m) |
|---|---|---|---|
| 1 | POSTE DE ENERGIA | 210 | 8.2 |
| 2 | BORDE DE CERCA DE ALAMBRE | 140 | 2.1 |
| 3 | ESQUINA SURESTE CERRAMIENTO ANTENA | 100 | 8.2 |
| 4 | ESQUINA SURESTE CERRAMIENTO ANTENA | 210 | 14.4 |

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|---|---|---|
| | | **3. NUBE DE PUNTOS RTK**<br><br>Se tomaron puntos con base_1 desde 0 hasta 1165, con orientación norte (m), este (m), Elevación (m) y descripción<br><br>Dentro de la Descripción incluye: Auxiliar 1, Auxiliar 2, Vía, Eje vía, Nivel, Cerco, (ver anexo 2: nube de punto RTK) |
| 4 | Efectuar niveles de terreno y mediciones topográficas en los terrenos que se le asigne y Elaborar dibujos de los levantamientos topográficos en los terrenos que se le asigne | **1. CROQUIS GENERAL**<br><br><br><br><br>**2. CROQUIS DETALLADO**<br><br><br><br><br>**3. CONVERSIÓN DE COOREDNADAS**<br><br> |
| 5 | Entregar los planos de los terrenos que se le han asignado en formato digital y análogo en la escala solicitada | En el archivo en formato.csv denominado “NUBE DE PUNTOS RTK” se almacenan todas las coordenadas tomadas mediante el método RTK.<br><br>Una vez teniendo las coordenadas de cada detalle del levantamiento corregido, se procede a realizar los dibujos CAD, diseños y demás |

| | | |
|---|---|---|
| | | entregables |
| **ANEXOS** | | |

1. **LEVANTAMIENTO TOPOGRÁFICO**










## 2. NUBE DE PUNTOS RTK

En la siguiente tabla se registra la totalidad de los puntos tomados por RTK

| PUNTO | NORTE | ESTE | ELEVACION | DESCRIPCION |
|---|---|---|---|---|
| 1 | 621461,757 | 1146438,603 | 260,202 | Cerco |
| 2 | 621462,199 | 1146437,655 | 260,006 | Nivel |
| 3 | 621462,85 | 1146435,771 | 258,593 | Via |
| 4 | 621463,608 | 1146433,881 | 258,877 | Eje Via |
| 5 | 621464,349 | 1146431,623 | 258,729 | Via |
| 6 | 621464,419 | 1146431,349 | 259,128 | Nivel |
| 7 | 621464,448 | 1146430,13 | 259,061 | Cerco |
| 8 | 621473,563 | 1146431,342 | 260,242 | Cerco |
| 9 | 621473,622 | 1146432,222 | 260,309 | Nivel |
| 10 | 621473,495 | 1146432,929 | 259,539 | Nivel |
| 11 | 621472,599 | 1146434,48 | 259,047 | Via |
| 12 | 621472,193 | 1146436,351 | 259,084 | Eje Via |
| 13 | 621471,662 | 1146438,271 | 258,967 | Via |
| 14 | 621470,661 | 1146440,142 | 261,043 | Nivel |
| 15 | 621470,216 | 1146441,895 | 261,434 | Cerco |
| 16 | 621473,072 | 1146441,551 | 261,42 | Nivel |
| 17 | 621472,351 | 1146442,721 | 261,636 | Cerco |
| 18 | 621480,125 | 1146444,124 | 260,82 | Nivel |
| 19 | 621479 | 1146446,173 | 261,377 | Cerco |
| 20 | 621483,775 | 1146446,958 | 260,747 | Nivel |
| 21 | 621482,786 | 1146448,236 | 260,968 | Cerco |
| 22 | 621488,015 | 1146451,26 | 259,598 | Nivel |
| 23 | 621487,376 | 1146451,855 | 259,747 | Cerco |
| 24 | 621475,96 | 1146440,079 | 258,822 | Via |
| 25 | 621477,108 | 1146438,411 | 259,031 | Eje Via |
| 26 | 621477,968 | 1146436,486 | 258,91 | Via |
| 27 | 621479,141 | 1146435,314 | 259,952 | Nivel |
| 28 | 621481,36 | 1146433,028 | 261,154 | Cerco |
| 29 | 621488,536 | 1146437,937 | 260,685 | Cerco |
| 30 | 621488,311 | 1146438,377 | 260,088 | Nivel |
| 31 | 621487,294 | 1146439,567 | 259,539 | Nivel |
| 32 | 621486,535 | 1146440,242 | 258,533 | Nivel |
| 33 | 621486,135 | 1146440,844 | 258,294 | Via |
| 34 | 621485,085 | 1146442,277 | 258,328 | Eje Via |
| 35 | 621483,34 | 1146444,609 | 258,191 | Nivel |
| 36 | 621478,283 | 1146441,373 | 258,727 | Via |
| 37 | 621480,846 | 1146437,864 | 258,801 | Via |
| 38 | 621488,18 | 1146448,938 | 257,76 | Via |
| 39 | 621490,303 | 1146447,163 | 257,884 | Eje Via |
| 40 | 621491,872 | 1146445,381 | 257,867 | Via |
| 41 | 621492,738 | 1146445,073 | 257,991 | Nivel |
| 42 | 621493,466 | 1146444,735 | 258,655 | Nivel |
| 43 | 621494,784 | 1146443,772 | 259,136 | Cerco |
| 44 | 621496,776 | 1146446,308 | 257,973 | Cerco |
| 45 | 621496,193 | 1146446,482 | 258,075 | Nivel |
| 46 | 621496,164 | 1146446,635 | 257,836 | Nivel |
| 47 | 621495,07 | 1146446,452 | 258,16 | Nivel |
| 48 | 621495,175 | 1146448,286 | 257,72 | Via |
| 49 | 621493,706 | 1146449,923 | 257,67 | Eje Via |
| 50 | 621491,22 | 1146451,825 | 257,402 | Via |
| 51 | 621489,258 | 1146452,752 | 257,98 | Nivel |
| 52 | 621489,776 | 1146453,749 | 259,058 | Cerco |
| 53 | 621492,89 | 1146454,848 | 258,012 | Nivel |
| 54 | 621491,615 | 1146456,276 | 258,358 | Cerco |
| 55 | 621493,851 | 1146459,264 | 257,687 | Cerco |
| 56 | 621495,331 | 1146458,132 | 257,376 | Nivel |
| 57 | 621495,693 | 1146457,794 | 256,611 | Via |
| 58 | 621497,876 | 1146456,855 | 256,699 | Eje Via |
| 59 | 621499,75 | 1146455,796 | 256,557 | Via |
| 60 | 621496,576 | 1146450,818 | 257,479 | Via |
| 61 | 621498,18 | 1146453,551 | 256,843 | Nivel |
| 62 | 621499,153 | 1146450,381 | 257,536 | Cerco |
| 63 | 621498,807 | 1146451,958 | 257,43 | Nivel |
| 64 | 621500,434 | 1146455,426 | 256,882 | Nivel |
| 65 | 621501,305 | 1146454,996 | 257,026 | Cerco |
| 66 | 621504,342 | 1146461,756 | 256,158 | Cerco |
| 67 | 621503,103 | 1146460,993 | 256,213 | Via |
| 68 | 621501,25 | 1146462,363 | 256,037 | Eje Via |
| 69 | 621499,235 | 1146463,226 | 256,062 | Via |
| 70 | 621498,625 | 1146463,682 | 256,55 | Nivel |
| 71 | 621497,622 | 1146464,063 | 256,792 | Cerco |
| 72 | 621503,615 | 1146477,234 | 255,771 | Cerco |
| 73 | 621504,502 | 1146477,049 | 255,64 | Via |
| 74 | 621507,082 | 1146476,504 | 255,734 | Eje Via |
| 75 | 621518,479 | 1146522,352 | 256,866 | Cerco |
| 76 | 621517,094 | 1146522,502 | 256,042 | Via |
| 77 | 621514,634 | 1146522,673 | 256,137 | Eje Via |
| 78 | 621512,596 | 1146522,604 | 256,058 | Via |
| 79 | 621512,235 | 1146522,631 | 256,367 | Nivel |

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|---|---|---|---|---|
| 80 | 621510,058 | 1146522,637 | 256,223 | Cerco |
| 81 | 621511,429 | 1146535,71 | 256,809 | Cerco |
| 82 | 621512,924 | 1146536,105 | 256,889 | Nivel |
| 83 | 621513,334 | 1146536,022 | 256,607 | Via |
| 84 | 621515,299 | 1146536,321 | 256,752 | Eje Via |
| 85 | 621517,594 | 1146536,512 | 256,531 | Via |
| 86 | 621519,192 | 1146536,659 | 257,466 | Cerco |
| 87 | 621519,713 | 1146547,55 | 258,118 | Cerco |
| 88 | 621517,818 | 1146547,495 | 257,005 | Via |
| 89 | 621515,272 | 1146547,607 | 256,909 | Eje Via |
| 90 | 621513,292 | 1146547,252 | 256,843 | Cerco |
| 91 | 621512,839 | 1146547,235 | 257,119 | Nivel |
| 92 | 621511,634 | 1146546,944 | 257,103 | Cerco |
| 93 | 621510,383 | 1146558,053 | 256,886 | Cerco |
| 94 | 621510,839 | 1146557,745 | 256,809 | Poste |
| 95 | 621512,063 | 1146557,966 | 256,802 | Nivel |
| 96 | 621512,389 | 1146558,012 | 256,439 | Via |
| 97 | 621514,229 | 1146558,42 | 256,439 | Eje Via |
| 98 | 621516,577 | 1146558,645 | 256,407 | Via |
| 99 | 621517,501 | 1146559,138 | 257,241 | Nivel |
| 100 | 621520,018 | 1146559,485 | 258,041 | Cerco |
| 101 | 621520,191 | 1146568,669 | 257,195 | Cerco |
| 102 | 621517,812 | 1146568,163 | 256,621 | Nivel |
| 103 | 621517,218 | 1146568,357 | 256,041 | Nivel |
| 104 | 621518,409 | 1146571,279 | 256,027 | Nivel |
| 105 | 621514,802 | 1146571,038 | 255,129 | Via |
| 106 | 621512,238 | 1146570,688 | 255,376 | Eje Via |
| 107 | 621510,343 | 1146570,531 | 255,257 | Via |
| 108 | 621509,616 | 1146570,464 | 255,673 | Nivel |
| 109 | 621508,327 | 1146570,154 | 255,568 | Cerco |
| 110 | 621505,247 | 1146592,394 | 253,308 | Cerco |
| 111 | 621506,001 | 1146592,543 | 253,359 | Nivel |
| 112 | 621506,68 | 1146592,697 | 253,034 | Via |
| 113 | 621508,4 | 1146593,017 | 252,971 | Eje Via |
| 114 | 621510,185 | 1146593,647 | 253,056 | Via |
| 115 | 621511,825 | 1146593,983 | 252,576 | Nivel |
| 116 | 621514,171 | 1146592,319 | 255,034 | Nivel |
| 117 | 621515,754 | 1146592,616 | 255,525 | Cerco |
| 118 | 621512,436 | 1146612,644 | 253,197 | Cerco |
| 119 | 621511,047 | 1146612,833 | 252,837 | Nivel |
| 120 | 621509,964 | 1146612,664 | 251,513 | Nivel |
| 121 | 621509,218 | 1146612,84 | 251,274 | Nivel |
| 122 | 621507,84 | 1146612,726 | 251,715 | Via |
| 123 | 621497,403 | 1146655,723 | 248,821 | Cerco |
| 124 | 621498,14 | 1146655,88 | 248,686 | Nivel |
| 125 | 621498,464 | 1146655,893 | 248,453 | Via |
| 126 | 621500,674 | 1146656,552 | 248,526 | Eje Via |
| 127 | 621503,231 | 1146657,05 | 248,387 | Via |
| 128 | 621504,072 | 1146657,342 | 248,333 | Nivel |
| 129 | 621505,065 | 1146657,803 | 249,306 | Cerco |
| 130 | 621495,293 | 1146671,103 | 248,091 | Cerco |
| 131 | 621496,234 | 1146671,113 | 247,804 | Via |
| 132 | 621498,365 | 1146671,461 | 247,759 | Eje Via |
| 133 | 621501,076 | 1146671,246 | 247,841 | Via |
| 134 | 621502,289 | 1146671,469 | 248,064 | Nivel |
| 135 | 621502,752 | 1146671,416 | 248,378 | Cerco |
| 136 | 621509,841 | 1146477,19 | 255,513 | Via |
| 137 | 621510,656 | 1146476,774 | 255,465 | Cerco |
| 138 | 621515,177 | 1146495,659 | 255,465 | Cerco |
| 139 | 621514,666 | 1146495,761 | 255,529 | Via |
| 140 | 621512,407 | 1146496,282 | 255,671 | Eje Via |
| 141 | 621509,447 | 1146496,659 | 255,372 | Via |
| 142 | 621509,079 | 1146496,824 | 255,752 | Nivel |
| 143 | 621507,755 | 1146497,215 | 255,39 | Cerco |
| 144 | 621509,332 | 1146509,749 | 255,637 | Cerco |
| 145 | 621510,832 | 1146509,73 | 255,933 | Nivel |
| 146 | 621511,15 | 1146509,731 | 255,584 | Via |
| 147 | 621513,953 | 1146510,059 | 255,778 | Eje Via |
| 148 | 621516,095 | 1146509,598 | 255,647 | Via |
| 149 | 621517,004 | 1146509,803 | 256,042 | Cerco |
| 150 | 621506,143 | 1146610,922 | 251,844 | Eje Via |
| 151 | 621504,217 | 1146610,396 | 251,675 | Via |
| 152 | 621503,65 | 1146610,219 | 251,96 | Nivel |
| 153 | 621503,144 | 1146610,194 | 252,144 | Cerco |
| 154 | 621500,219 | 1146631,811 | 250,8 | Cerco |
| 155 | 621500,96 | 1146631,634 | 250,75 | Nivel |
| 156 | 621501,315 | 1146631,679 | 250,384 | Via |
| 157 | 621503,664 | 1146632,622 | 250,197 | Eje Via |
| 158 | 621506,172 | 1146633,231 | 250,245 | Via |
| 159 | 621507,006 | 1146633,081 | 250,091 | Nivel |
| 160 | 621507,848 | 1146633,637 | 250,964 | Nivel |
| 161 | 621508,804 | 1146633,528 | 250,985 | Cerco |

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|---|---|---|---|---|
| 162 | 621497,145 | 1146694,581 | 247,092 | Cerco |
| 163 | 621495,942 | 1146694,228 | 247,318 | Via |
| 164 | 621493,78 | 1146693,915 | 247,376 | Eje Via |
| 165 | 621491,416 | 1146693,447 | 247,348 | Via |
| 166 | 621491,003 | 1146693,395 | 247,223 | Cerco |
| 167 | 621487,127 | 1146708,92 | 247,188 | Cerco |
| 168 | 621487,259 | 1146709,154 | 247,097 | Via |
| 169 | 621489,581 | 1146710,715 | 247,196 | Eje Via |
| 170 | 621492,004 | 1146711,099 | 247,076 | Via |
| 171 | 621492,504 | 1146711,104 | 247,163 | Cerco |
| 172 | 621481,867 | 1146730,269 | 247,593 | Cerco |
| 173 | 621482,386 | 1146730,38 | 247,47 | Via |
| 174 | 621484,734 | 1146730,867 | 247,618 | Eje Via |
| 175 | 621485,989 | 1146736,15 | 247,734 | Via |
| 176 | 621486,16 | 1146736,324 | 247,849 | Nivel |
| 177 | 621486,589 | 1146738,687 | 248,008 | Cerco |
| 178 | 621486,275 | 1146745,021 | 248,176 | Cerco |
| 179 | 621485,93 | 1146744,94 | 248,174 | Nivel |
| 180 | 621485,636 | 1146745,077 | 248,054 | Via |
| 181 | 621485,404 | 1146744,902 | 247,941 | Via |
| 182 | 621483,391 | 1146744,991 | 248,268 | Eje Via |
| 183 | 621481,186 | 1146744,677 | 248,071 | Via |
| 184 | 621480,56 | 1146744,576 | 248,386 | Nivel |
| 185 | 621479,377 | 1146744,68 | 248,805 | Cerco |
| 186 | 621479,558 | 1146763,278 | 249,124 | Cerco |
| 187 | 621480,89 | 1146762,971 | 248,919 | Nivel |
| 188 | 621481,503 | 1146762,96 | 248,571 | Via |
| 189 | 621483,467 | 1146763,348 | 248,611 | Eje Via |
| 190 | 621485,435 | 1146763,271 | 248,511 | Via |
| 191 | 621486,377 | 1146763,204 | 248,954 | Cerco |
| 192 | 621482,787 | 1146785,763 | 249,217 | Cerco |
| 193 | 621483,991 | 1146785,779 | 249,345 | Nivel |
| 194 | 621484,324 | 1146785,716 | 249,174 | Via |
| 195 | 621486,67 | 1146785,786 | 249,259 | Eje Via |
| 196 | 621488,399 | 1146785,299 | 249,115 | Via |
| 197 | 621488,727 | 1146785,416 | 249,312 | Nivel |
| 198 | 621489,52 | 1146786,229 | 249,221 | Cerco |
| 199 | 621501,153 | 1146811,188 | 250,983 | Cerco |
| 200 | 621494,162 | 1146813,662 | 250,965 | Nivel |
| 201 | 621493,302 | 1146813,577 | 250,566 | Via |
| 202 | 621491,338 | 1146813,96 | 250,541 | Eje Via |
| 203 | 621488,951 | 1146814,034 | 250,303 | Via |
| 204 | 621487,978 | 1146813,53 | 251,029 | Nivel |
| 205 | 621486,643 | 1146813,999 | 251,122 | Cerco |
| 206 | 621502,592 | 1146838,306 | 251,884 | Cerco |
| 207 | 621497,291 | 1146837,78 | 252,296 | Nivel |
| 208 | 621497,077 | 1146837,828 | 252,156 | Via |
| 209 | 621494,965 | 1146838,062 | 252,239 | Eje Via |
| 210 | 621492,514 | 1146838,424 | 251,948 | Via |
| 211 | 621491,946 | 1146838,352 | 252,524 | Nivel |
| 212 | 621490,039 | 1146838,42 | 253,082 | Cerco |
| 213 | 621500,865 | 1146864,394 | 253,903 | Cerco |
| 214 | 621500,635 | 1146864,633 | 253,859 | Nivel |
| 215 | 621500,298 | 1146864,718 | 253,513 | Via |
| 216 | 621498,61 | 1146864,714 | 253,686 | Eje Via |
| 217 | 621496,709 | 1146864,904 | 253,495 | Via |
| 218 | 621494,403 | 1146865,017 | 254,039 | Nivel |
| 219 | 621494,028 | 1146864,891 | 254,709 | Cerco |
| 220 | 621504,453 | 1146885,952 | 255,488 | Cerco |
| 221 | 621503,748 | 1146885,968 | 255,07 | Via |
| 222 | 621502,247 | 1146886,369 | 255,025 | Eje Via |
| 223 | 621499,867 | 1146886,673 | 255,083 | Via |
| 224 | 621499,34 | 1146886,167 | 255,69 | Nivel |
| 225 | 621497,296 | 1146885,995 | 256,165 | Cerco |
| 226 | 621506,037 | 1146896,788 | 256,144 | Via |
| 227 | 621504,047 | 1146897,059 | 256,169 | Eje Via |
| 228 | 621501,645 | 1146897,221 | 256,11 | Via |
| 229 | 621508,603 | 1146903,955 | 257,096 | Cerco |
| 230 | 621507,679 | 1146903,976 | 257,119 | Nivel |
| 231 | 621507,338 | 1146904,001 | 256,697 | Nivel |
| 232 | 621506,636 | 1146904,155 | 256,719 | Via |
| 233 | 621504,975 | 1146904,19 | 256,79 | Eje Via |
| 234 | 621502,375 | 1146904,168 | 256,561 | Via |
| 235 | 621501,987 | 1146904,236 | 257,145 | Nivel |
| 236 | 621500,073 | 1146904,833 | 257,741 | Cerco |
| 237 | 621500,881 | 1146908,066 | 257,894 | Cerco |
| 238 | 621501,535 | 1146906,562 | 257,68 | Nivel |
| 239 | 621501,581 | 1146909,353 | 257,047 | Via |
| 240 | 621495,084 | 1146913,531 | 258,31 | Via |
| 241 | 621495,508 | 1146916,855 | 258,833 | Nivel |
| 242 | 621495,827 | 1146919,48 | 258,909 | Via |
| 243 | 621500,337 | 1146921,433 | 258,312 | Via |

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|---|---|---|---|---|
| 244 | 621501,882 | 1146923,433 | 258,16 | Via |
| 245 | 621502,86 | 1146926,781 | 258,008 | Via |
| 246 | 621503,583 | 1146920,395 | 258,345 | Via |
| 247 | 621504,277 | 1146916,838 | 258,062 | Via |
| 248 | 621509,353 | 1146918,078 | 258,022 | Via |
| 249 | 621510,008 | 1146917,781 | 258,146 | Nivel |
| 250 | 621511,554 | 1146916,922 | 258,114 | Cerco |
| 251 | 621509,443 | 1146926,821 | 258,457 | Cerco |
| 252 | 621508,621 | 1146926,92 | 258,235 | Nivel |
| 253 | 621508,344 | 1146926,839 | 257,999 | Nivel |
| 254 | 621507,699 | 1146926,583 | 258,008 | Via |
| 255 | 621505,681 | 1146926,466 | 258,14 | Eje Via |
| 256 | 621506,05 | 1146921,287 | 258,248 | Eje Via |
| 257 | 621506,213 | 1146917,361 | 258,077 | Eje Via |
| 258 | 621502,068 | 1146926,56 | 258,57 | Nivel |
| 259 | 621498,996 | 1146927,432 | 259,367 | Nivel |
| 260 | 621494,728 | 1146923,084 | 260,203 | Nivel |
| 261 | 621494,918 | 1146922,816 | 259,534 | Nivel |
| 262 | 621498,31 | 1146920,435 | 258,704 | Nivel |
| 263 | 621495,007 | 1146937,425 | 258,141 | Cerco |
| 264 | 621498,337 | 1146938,172 | 257,242 | Nivel |
| 265 | 621499,116 | 1146938,412 | 256,812 | Via |
| 266 | 621501,158 | 1146939,713 | 256,898 | Eje Via |
| 267 | 621503,115 | 1146940,601 | 256,87 | Via |
| 268 | 621503,642 | 1146940,72 | 257,02 | Cerco |
| 269 | 621496,376 | 1146958,266 | 254,874 | Cerco |
| 270 | 621495,816 | 1146958,283 | 254,75 | Via |
| 271 | 621493,605 | 1146957,663 | 255,186 | Eje Via |
| 272 | 621491,628 | 1146957,107 | 255,131 | Via |
| 273 | 621491,223 | 1146956,665 | 255,585 | Nivel |
| 274 | 621490,508 | 1146956,803 | 255,762 | Cerco |
| 275 | 621488,35 | 1146965,569 | 254,888 | Cerco |
| 276 | 621488,987 | 1146965,774 | 254,513 | Via |
| 277 | 621491,026 | 1146966,203 | 254,584 | Eje Via |
| 278 | 621493,303 | 1146967,01 | 254,319 | Via |
| 279 | 621493,308 | 1146967,017 | 254,502 | Cerco |
| 280 | 621492,459 | 1146978,54 | 253,935 | Cerco |
| 281 | 621492,133 | 1146978,573 | 253,668 | Via |
| 282 | 621491,742 | 1146978,547 | 253,718 | Nivel |
| 283 | 621490,23 | 1146978,492 | 253,83 | Eje Via |
| 284 | 621487,943 | 1146978,631 | 253,572 | Via |
| 285 | 621487,421 | 1146978,607 | 254,063 | Nivel |
| 286 | 621486,757 | 1146978,772 | 254,134 | Cerco |
| 287 | 621492,728 | 1146998,636 | 252,86 | Cerco |
| 288 | 621492,176 | 1146998,619 | 252,893 | Via |
| 289 | 621490,423 | 1146998,507 | 253,049 | Eje Via |
| 290 | 621487,868 | 1146998,081 | 252,755 | Via |
| 291 | 621487,423 | 1146997,924 | 253,243 | Nivel |
| 292 | 621485,199 | 1146997,583 | 253,747 | Cerco |
| 293 | 621492,495 | 1147008,326 | 252,868 | Cerco |
| 294 | 621492,136 | 1147008,29 | 252,889 | Nivel |
| 295 | 621491,642 | 1147008,192 | 252,56 | Via |
| 296 | 621489,827 | 1147007,901 | 252,635 | Eje Via |
| 297 | 621487,465 | 1147007,314 | 252,141 | Via |
| 298 | 621486,252 | 1147006,563 | 253,005 | Nivel |
| 299 | 621483,982 | 1147005,933 | 253,681 | Cerco |
| 300 | 621481,218 | 1147016,004 | 253,334 | Cerco |
| 301 | 621483,286 | 1147017,106 | 253,087 | Nivel |
| 302 | 621484,977 | 1147017,376 | 252,005 | Nivel |
| 303 | 621485,183 | 1147017,536 | 251,32 | Nivel |
| 304 | 621486,251 | 1147017,832 | 251,955 | Via |
| 305 | 621488,374 | 1147018,137 | 252,137 | Eje Via |
| 306 | 621490,144 | 1147018,52 | 252,11 | Via |
| 307 | 621490,888 | 1147018,633 | 252,558 | Cerco |
| 308 | 621487,982 | 1147028,152 | 251,892 | Cerco |
| 309 | 621487,343 | 1147027,73 | 251,297 | Via |
| 310 | 621485,774 | 1147027,066 | 251,231 | Eje Via |
| 311 | 621483,186 | 1147025,994 | 251,308 | Via |
| 312 | 621482,752 | 1147025,57 | 250,703 | Nivel |
| 313 | 621482,169 | 1147025,237 | 250,793 | Nivel |
| 314 | 621481,227 | 1147026,455 | 251,433 | Nivel |
| 315 | 621479,178 | 1147027,147 | 252,051 | Nivel |
| 316 | 621478,523 | 1147028,082 | 252,45 | Nivel |
| 317 | 621477,491 | 1147027,492 | 252,669 | Cerco |
| 318 | 621473,097 | 1147037,276 | 251,142 | Cerco |
| 319 | 621474,989 | 1147037,222 | 250,994 | Nivel |
| 320 | 621476,188 | 1147038,414 | 250,119 | Nivel |
| 321 | 621476,717 | 1147038,429 | 249,422 | Nivel |
| 322 | 621476,002 | 1147050,082 | 249,182 | Cerco |
| 323 | 621475,683 | 1147049,823 | 248,809 | Via |
| 324 | 621473,899 | 1147048,662 | 248,947 | Eje Via |
| 325 | 621471,991 | 1147047,467 | 248,81 | Via |

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| 326 | 621471,092 | 1147047,004 | 249,261 | Nivel |
| 327 | 621469,561 | 1147046,205 | 249,003 | Cerco |
| 328 | 621466,718 | 1147066,555 | 247,452 | Cerco |
| 329 | 621466,46 | 1147066,314 | 247,596 | Via |
| 330 | 621464,508 | 1147065,263 | 247,771 | Eje Via |
| 331 | 621462,854 | 1147063,95 | 247,822 | Via |
| 332 | 621462,303 | 1147063,532 | 248,091 | Cerco |
| 333 | 621456,349 | 1147080,029 | 247,243 | Cerco |
| 334 | 621456,863 | 1147080,251 | 247,246 | Via |
| 335 | 621458,525 | 1147080,817 | 247,315 | Eje Via |
| 336 | 621460,037 | 1147081,228 | 247,262 | Via |
| 337 | 621460,712 | 1147081,388 | 247,397 | Cerco |
| 338 | 621456,758 | 1147096,649 | 248,086 | Cerco |
| 339 | 621456,095 | 1147096,317 | 247,861 | Nivel |
| 340 | 621455,9 | 1147096,289 | 247,599 | Via |
| 341 | 621453,739 | 1147095,607 | 247,599 | Eje Via |
| 342 | 621451,872 | 1147094,871 | 247,574 | Via |
| 343 | 621451,393 | 1147094,678 | 247,887 | Nivel |
| 344 | 621450,666 | 1147094,27 | 247,724 | Cerco |
| 346 | 621448,068 | 1147111,577 | 248,308 | Cerco |
| 347 | 621448,983 | 1147111,471 | 248,143 | Via |
| 348 | 621450,698 | 1147111,827 | 248,32 | Eje Via |
| 349 | 621453,166 | 1147111,993 | 248,112 | Via |
| 350 | 621453,792 | 1147111,951 | 248,241 | Nivel |
| 351 | 621455,462 | 1147112,173 | 248,025 | Cerco |
| 352 | 621453,493 | 1147132,244 | 246,825 | Cerco |
| 353 | 621452,403 | 1147132,007 | 247,544 | Nivel |
| 354 | 621451,959 | 1147132,046 | 247,532 | Via |
| 355 | 621450,091 | 1147131,96 | 247,734 | Eje Via |
| 356 | 621448,001 | 1147131,834 | 247,666 | Via |
| 357 | 621447,011 | 1147131,817 | 247,933 | Cerco |
| 358 | 621446,722 | 1147140,224 | 246,91 | Cerco |
| 359 | 621447,447 | 1147140,393 | 247,083 | Via |
| 360 | 621449,695 | 1147140,717 | 247,255 | Eje Via |
| 361 | 621451,944 | 1147140,855 | 247,167 | Via |
| 362 | 621452,777 | 1147140,717 | 246,839 | Cerco |
| 363 | 621444,292 | 1147143,832 | 245,969 | Nivel |
| 364 | 621443,011 | 1147148,717 | 246,256 | Nivel |
| 365 | 621446,132 | 1147149,016 | 247,129 | Cerco |
| 366 | 621452,251 | 1147153,375 | 246,504 | Cerco |
| 367 | 621448,808 | 1147153,491 | 247,327 | Cerco |

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| 368 | 621440,969 | 1147158,968 | 246,699 | Nivel |
| 369 | 621445,545 | 1147160,9 | 247,311 | Cerco |
| 370 | 621446,344 | 1147160,104 | 247,197 | Via |
| 371 | 621448,465 | 1147160,802 | 247,241 | Eje Via |
| 372 | 621450,423 | 1147161,229 | 247,242 | Via |
| 373 | 621451,968 | 1147161,499 | 247,178 | Cerco |
| 374 | 621451,083 | 1147174,317 | 247,773 | Cerco |
| 375 | 621450,254 | 1147174,655 | 247,665 | Via |
| 376 | 621447,884 | 1147173,944 | 247,619 | Eje Via |
| 377 | 621445,888 | 1147173,837 | 247,585 | Via |
| 378 | 621444,403 | 1147199,161 | 249,016 | Cerco |
| 379 | 621445,112 | 1147199,127 | 249,061 | Nivel |
| 380 | 621445,666 | 1147199,449 | 248,699 | Via |
| 381 | 621447,494 | 1147199,692 | 248,861 | Eje Via |
| 382 | 621449,46 | 1147210,818 | 249,51 | Via |
| 383 | 621449,713 | 1147210,853 | 249,753 | Nivel |
| 384 | 621450,707 | 1147211,015 | 250,161 | Cerco |
| 385 | 621452,039 | 1147236,615 | 253,003 | Cerco |
| 386 | 621451,531 | 1147236,528 | 252,775 | Nivel |
| 387 | 621450,998 | 1147236,61 | 252,205 | Via |
| 388 | 621448,954 | 1147236,498 | 252,27 | Eje Via |
| 389 | 621446,755 | 1147236,652 | 252,288 | Via |
| 390 | 621446,424 | 1147236,795 | 252,709 | Nivel |
| 391 | 621445,22 | 1147237,415 | 253,071 | Cerco |
| 392 | 621448,079 | 1147254,366 | 254,304 | Cerco |
| 393 | 621448,861 | 1147254,42 | 254,287 | Nivel |
| 394 | 621449,378 | 1147254,506 | 253,882 | Via |
| 395 | 621451,416 | 1147254,459 | 253,858 | Eje Via |
| 396 | 621452,916 | 1147253,896 | 253,787 | Via |
| 397 | 621453,96 | 1147253,783 | 254,261 | Nivel |
| 398 | 621454,431 | 1147253,648 | 254,55 | Cerco |
| 399 | 621453,255 | 1147274,148 | 255,54 | Cerco |
| 400 | 621454,1 | 1147274,007 | 255,6 | Nivel |
| 401 | 621454,468 | 1147274,026 | 255,215 | Via |
| 402 | 621456,569 | 1147274,056 | 255,351 | Eje Via |
| 403 | 621458,84 | 1147273,997 | 255,395 | Via |
| 404 | 621459,563 | 1147273,756 | 255,768 | Nivel |
| 405 | 621460,365 | 1147273,933 | 256,004 | Cerco |
| 406 | 621466,383 | 1147292,425 | 257,196 | Cerco |
| 407 | 621465,962 | 1147292,599 | 257,062 | Nivel |
| 408 | 621465,539 | 1147292,702 | 256,884 | Via |

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| 409 | 621463,673 | 1147293,636 | 256,937 | Eje Via |
| 410 | 621461,465 | 1147294,256 | 256,805 | Via |
| 411 | 621459,919 | 1147294,269 | 256,885 | Cerco |
| 412 | 621470,619 | 1147305,954 | 257,819 | Cerco |
| 413 | 621470,138 | 1147306,059 | 257,708 | Nivel |
| 414 | 621469,748 | 1147306,167 | 257,501 | Via |
| 415 | 621467,595 | 1147306,911 | 257,541 | Eje Via |
| 416 | 621465,702 | 1147307,525 | 257,528 | Via |
| 417 | 621465,063 | 1147307,784 | 257,88 | Nivel |
| 418 | 621463,572 | 1147308,046 | 257,95 | Cerco |
| 419 | 621466,583 | 1147323,073 | 258,933 | Cerco |
| 420 | 621468,282 | 1147323,229 | 258,785 | Nivel |
| 421 | 621469,196 | 1147323,125 | 258,202 | Via |
| 422 | 621471,382 | 1147323,61 | 258,244 | Eje Via |
| 423 | 621473,66 | 1147323,504 | 258,217 | Via |
| 424 | 621474,649 | 1147324,47 | 258,81 | Nivel |
| 425 | 621475,263 | 1147324,448 | 258,947 | Cerco |
| 426 | 621479,688 | 1147348,102 | 259,418 | Cerco |
| 427 | 621478,408 | 1147348,126 | 259,376 | Nivel |
| 428 | 621477,72 | 1147348,211 | 258,99 | Via |
| 429 | 621475,384 | 1147348,755 | 259,083 | Eje Via |
| 430 | 621473,316 | 1147348,901 | 259,02 | Via |
| 431 | 621472,415 | 1147348,792 | 259,453 | Nivel |
| 432 | 621470,915 | 1147348,947 | 259,456 | Cerco |
| 433 | 621473,47 | 1147366,954 | 259,286 | Cerco |
| 434 | 621475,006 | 1147366,889 | 259,164 | Nivel |
| 435 | 621475,425 | 1147366,814 | 258,832 | Via |
| 436 | 621477,48 | 1147366,929 | 258,93 | Eje Via |
| 437 | 621479,749 | 1147367,046 | 258,867 | Via |
| 438 | 621481,136 | 1147371,01 | 259,132 | Nivel |
| 439 | 621482,748 | 1147370,899 | 259,138 | Cerco |
| 440 | 621484,459 | 1147384,911 | 258,777 | Cerco |
| 441 | 621482,885 | 1147384,986 | 258,823 | Nivel |
| 442 | 621482,493 | 1147385,121 | 258,511 | Via |
| 443 | 621479,791 | 1147385,732 | 258,727 | Eje Via |
| 444 | 621476,835 | 1147385,926 | 258,567 | Via |
| 445 | 621476,03 | 1147386,133 | 258,714 | Nivel |
| 446 | 621474,947 | 1147386,612 | 258,657 | Cerco |
| 447 | 621476,357 | 1147390,606 | 258,393 | Nivel |
| 448 | 621485,247 | 1147403,144 | 258,946 | Cerco |
| 449 | 621483,123 | 1147403,109 | 258,758 | Nivel |
| 450 | 621482,795 | 1147403,052 | 258,504 | Nivel |
| 451 | 621481,693 | 1147402,905 | 258,806 | Via |
| 452 | 621479,618 | 1147402,911 | 258,768 | Eje Via |
| 453 | 621477,496 | 1147402,443 | 258,593 | Via |
| 454 | 621476,709 | 1147402,621 | 259,111 | Nivel |
| 455 | 621474,852 | 1147402,607 | 258,872 | Cerco |
| 456 | 621473,219 | 1147420,422 | 259,634 | Cerco |
| 457 | 621475,341 | 1147420,825 | 259,476 | Nivel |
| 458 | 621476,001 | 1147421,013 | 258,872 | Via |
| 459 | 621477,916 | 1147421,545 | 259,098 | Eje Via |
| 460 | 621480,18 | 1147421,786 | 258,987 | Via |
| 461 | 621479,954 | 1147425,616 | 259,362 | Nivel |
| 462 | 621481,687 | 1147426,396 | 259,72 | Cerco |
| 463 | 621478,106 | 1147451,102 | 259,855 | Cerco |
| 464 | 621476,79 | 1147450,338 | 260,044 | Nivel |
| 465 | 621476,399 | 1147450,262 | 259,638 | Via |
| 466 | 621474,218 | 1147449,911 | 259,755 | Eje Via |
| 467 | 621471,453 | 1147449,588 | 259,564 | Via |
| 468 | 621470,756 | 1147452,493 | 260,017 | Nivel |
| 469 | 621468,682 | 1147452,256 | 260,049 | Cerco |
| 470 | 621474,296 | 1147478,794 | 260,015 | Cerco |
| 471 | 621473,021 | 1147478,628 | 260,09 | Nivel |
| 472 | 621472,702 | 1147478,641 | 259,667 | Via |
| 473 | 621470,279 | 1147478,131 | 259,619 | Eje Via |
| 474 | 621467,711 | 1147477,37 | 259,635 | Via |
| 475 | 621467,237 | 1147477,191 | 259,625 | Nivel |
| 476 | 621467,135 | 1147477,169 | 259,958 | Nivel |
| 477 | 621465,524 | 1147476,829 | 259,947 | Cerco |
| 478 | 621471,704 | 1147484,595 | 259,649 | Via |
| 479 | 621469,631 | 1147483,915 | 259,937 | Eje Via |
| 480 | 621467,327 | 1147483,503 | 259,608 | Via |
| 481 | 621467,184 | 1147480,593 | 259,558 | Nivel |
| 482 | 621466,92 | 1147478,495 | 259,512 | Zanja |
| 483 | 621465,58 | 1147478,325 | 259,754 | Nivel |
| 485 | 621465,82 | 1147479,127 | 259,701 | Nivel |
| 486 | 621465,393 | 1147478,967 | 259,494 | Zanja |
| 489 | 621459,18 | 1147481,949 | 259,049 | Zanja |
| 490 | 621459,565 | 1147479,928 | 259,497 | Nivel |
| 491 | 621458,782 | 1147484,806 | 259,413 | Nivel |
| 492 | 621453,66 | 1147483,242 | 258,434 | Nivel |
| 493 | 621454,086 | 1147481,476 | 258,121 | Zanja |

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| 494 | 621454,868 | 1147478,133 | 258,838 | Nivel |
| 495 | 621446,981 | 1147481,042 | 256,198 | Nivel |
| 496 | 621447,237 | 1147482,606 | 255,952 | Zanja |
| 497 | 621447,564 | 1147485,271 | 256,47 | Nivel |
| 498 | 621470,603 | 1147507,813 | 260,792 | Cerco |
| 499 | 621469,116 | 1147507,51 | 261,689 | Nivel |
| 500 | 621468,862 | 1147507,514 | 260,213 | Via |
| 501 | 621466,677 | 1147507,221 | 260,267 | Eje Via |
| 502 | 621464,623 | 1147506,757 | 260,07 | Via |
| 503 | 621464,092 | 1147506,506 | 260,385 | Nivel |
| 504 | 621462,379 | 1147507,171 | 260,492 | Cerco |
| 505 | 621459,007 | 1147536,605 | 261,07 | Cerco |
| 506 | 621460,416 | 1147536,548 | 261,115 | Nivel |
| 507 | 621460,277 | 1147539,947 | 260,89 | Via |
| 508 | 621462,558 | 1147542,74 | 261,013 | Eje Via |
| 509 | 621464,659 | 1147543,36 | 260,934 | Via |
| 510 | 621465,3 | 1147543,433 | 261,403 | Nivel |
| 511 | 621465,783 | 1147543,512 | 261,469 | Cerco |
| 512 | 621461,986 | 1147572,374 | 261,255 | Cerco |
| 513 | 621460,064 | 1147587,737 | 261,103 | Cerco |
| 514 | 621459,256 | 1147588,069 | 261,334 | Nivel |
| 515 | 621458,826 | 1147587,899 | 261,011 | Via |
| 516 | 621456,681 | 1147587,771 | 261,073 | Eje Via |
| 517 | 621454,712 | 1147587,801 | 260,87 | Via |
| 518 | 621453,821 | 1147587,66 | 261,263 | Nivel |
| 519 | 621452,587 | 1147587,458 | 261,249 | Cerco |
| 520 | 621449,633 | 1147612,033 | 261,567 | Cerco |
| 521 | 621450,557 | 1147611,99 | 261,514 | Nivel |
| 522 | 621451,071 | 1147612,083 | 261,158 | Via |
| 523 | 621453,067 | 1147612,906 | 261,372 | Eje Via |
| 524 | 621454,989 | 1147613,199 | 261,17 | Via |
| 525 | 621456,493 | 1147613,449 | 261,066 | Nivel |
| 526 | 621457,155 | 1147613,425 | 261,03 | Cerco |
| 527 | 621457,541 | 1147611,923 | 260,854 | Zanja |
| 528 | 621460,774 | 1147613,856 | 260,034 | Nivel |
| 529 | 621464,426 | 1147613,389 | 259,025 | Zanja |
| 530 | 621464,087 | 1147609,729 | 259,665 | Nivel |
| 531 | 621475,654 | 1147611,31 | 257,291 | Nivel |
| 532 | 621472,109 | 1147614,141 | 257,643 | Zanja |
| 533 | 621471,437 | 1147616,827 | 257,799 | Nivel |
| 534 | 621477,528 | 1147615,621 | 256,178 | Zanja |

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| 535 | 621447,793 | 1147630,37 | 262,126 | Cerco |
| 536 | 621448,522 | 1147630,681 | 262,04 | Nivel |
| 537 | 621448,953 | 1147630,617 | 261,682 | Via |
| 538 | 621451,301 | 1147631,002 | 261,68 | Eje Via |
| 539 | 621452,598 | 1147631,391 | 261,637 | Via |
| 540 | 621453,699 | 1147632,174 | 262,044 | Nivel |
| 541 | 621455,116 | 1147632,438 | 262,073 | Cerco |
| 542 | 621453,769 | 1147644,401 | 262,504 | Cerco |
| 543 | 621452,516 | 1147644,341 | 262,237 | Nivel |
| 544 | 621452,247 | 1147644,351 | 262,065 | Via |
| 545 | 621450,051 | 1147644,038 | 262,1 | Eje Via |
| 546 | 621448,545 | 1147643,824 | 262,113 | Via |
| 547 | 621447,967 | 1147643,758 | 262,541 | Nivel |
| 548 | 621447,163 | 1147643,721 | 262,621 | Cerco |
| 549 | 621447,237 | 1147655,755 | 262,761 | Cerco |
| 550 | 621448,148 | 1147655,635 | 262,58 | Nivel |
| 551 | 621448,423 | 1147655,697 | 262,278 | Via |
| 552 | 621450,43 | 1147655,817 | 262,397 | Eje Via |
| 553 | 621452,288 | 1147655,704 | 262,208 | Via |
| 554 | 621454,061 | 1147655,511 | 262,657 | Cerco |
| 555 | 621456,795 | 1147674,745 | 263,219 | Cerco |
| 556 | 621456,449 | 1147674,786 | 263,274 | Nivel |
| 557 | 621455,067 | 1147675,205 | 262,448 | Via |
| 558 | 621452,962 | 1147675,879 | 262,584 | Eje Via |
| 559 | 621450,022 | 1147676,564 | 262,491 | Via |
| 560 | 621448,731 | 1147675,923 | 262,705 | Cerco |
| 561 | 621450,777 | 1147681,366 | 262,6 | Via |
| 562 | 621454,247 | 1147681,695 | 262,729 | Eje Via |
| 563 | 621458,58 | 1147682,142 | 262,494 | Via |
| 564 | 621462,294 | 1147685,362 | 262,533 | Via |
| 565 | 621468,413 | 1147688,64 | 262,608 | Via |
| 566 | 621466,166 | 1147692,924 | 262,65 | Via |
| 567 | 621459,008 | 1147690,158 | 262,554 | Via |
| 568 | 621449,895 | 1147687,646 | 262,378 | Via |
| 569 | 621439,177 | 1147687,038 | 262,35 | Via |
| 570 | 621438,47 | 1147682,216 | 262,377 | Via |
| 571 | 621444,566 | 1147682,553 | 262,439 | Via |
| 572 | 624117,42 | 1152268,485 | 247,466 | Zanja Agua Lluvia |
| 573 | 624118,012 | 1152268,484 | 247,409 | Zanja Agua Lluvia |

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| 574 | 624118,049 | 1152268,51 | 247,215 | Zanja Agua Lluvia |
| 575 | 624120,303 | 1152268,839 | 247,118 | Zanja Agua Lluvia |
| 576 | 624121,024 | 1152269,552 | 247,131 | Zanja Agua Lluvia |
| 577 | 624128,265 | 1152270,793 | 247,241 | Zanja Agua Lluvia |
| 578 | 624128,697 | 1152271,163 | 247,078 | Zanja Agua Lluvia |
| 579 | 624138,545 | 1152272,26 | 246,925 | Zanja Agua Lluvia |
| 580 | 624138,714 | 1152272,312 | 247,79 | Sumidero |
| 581 | 624138,823 | 1152271,519 | 246,694 | Sumidero |
| 582 | 624138,908 | 1152272,425 | 248,452 | Sumidero |
| 583 | 624139,454 | 1152271,526 | 246,69 | Sumidero |
| 584 | 624139,566 | 1152272,415 | 248,51 | Sumidero |
| 585 | 624139,481 | 1152271,969 | 246,6 | Sumidero |
| 586 | 624145,128 | 1152272,649 | 246,802 | Zanja Agua Lluvia |
| 587 | 624145,613 | 1152272,722 | 246,869 | Zanja Agua Lluvia |
| 588 | 624167,643 | 1152275,923 | 247,335 | Zanja Agua Lluvia |
| 589 | 624168,49 | 1152275,905 | 247,512 | Zanja Agua Lluvia |
| 590 | 624189,907 | 1152278,73 | 247,582 | Zanja Agua Lluvia |
| 591 | 624229,766 | 1152284,154 | 247,124 | Zanja Agua Lluvia |
| 592 | 624231,785 | 1152281,368 | 246,714 | Zanja Agua Lluvia |
| 593 | 624238,992 | 1152268,022 | 245,743 | Zanja Agua Lluvia |
| 594 | 624247,351 | 1152244,687 | 244,353 | Zanja Agua Lluvia |
| 595 | 624257,67 | 1152205,753 | 243,125 | Zanja Agua Lluvia |
| 596 | 624256,163 | 1152203,403 | 242,988 | Zanja Agua Lluvia |