

## **ANEJO Nº 2. CARTOGRAFÍA Y TOPOGRAFÍA**





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## CARTOGRAFÍA

### 1. MEMORIA DESCRIPTIVA

#### INTRODUCCIÓN

En el presente anejo se exponen las tareas realizadas y las metodologías empleadas en la obtención de la cartografía a escala 1/1.000 que constituye la base para el desarrollo del proyecto de acondicionamiento de la N-260. Tramo: Balupor - Fiscal

#### CARTOGRAFÍA 1/1.000

Dado que la cartografía se ha obtenido por métodos fotogramétricos, las cuatro fases seguidas para ello han sido:

- Obtención de un vuelo fotogramétrico
- Implantación y observación de un Red Básica Topográfica
- Apoyo en campo del vuelo
- Restitución Fotogramétrica

#### VUELO FOTOGRAMÉTRICO

La zona objeto del trabajo se cubrió mediante dos vuelos digitales realizados con carácter exclusivo para el presente levantamiento con fechas 4 de Enero de 2007 y 20 de Septiembre de 2007. El motivo de obtener el segundo vuelo se debió a las sombras que había en el primero debido a la inclinación de los rayos solares por la fecha en que se realizó.

Las características principales consistentes en:

- Datos de vuelo
- Datos geométricos
- Calibración de la cámara digital
- Gráfico de vuelo

se encuentran recogidas en el apartado nº 1 aportadas por la empresa ejecutante.

Recibido el vuelo, los trabajos que se han desarrollado para comprobar la calidad del mismo han consistido en:

- Contrastar que los contactos cubrían la zona objeto del levantamiento
- Supervisar que la información que suministran los contactos no se encuentran enmascarada por nubes, sombras, etc.
- Comprobar que los soportes digitales con las imágenes no presentan anomalías para su lectura, visualización y tratamiento.
- Certificar que la empresa ejecutante ha facilitado el gráfico de vuelo sobre cartografía 1/50.000, la calibración de la cámara aérea con una antigüedad menor de 2 años y el informe del vuelo.

#### APOYO DE CAMPO E IMPLANTACIÓN DE UNA RED BÁSICA

En fase previa a los trabajos de campo, se proyectaron sobre los fotogramas los puntos de apoyo situados de tal forma que la futura zona a restituir quedara englobada en el teórico paralelogramo formado por éstos para evitar extrapolaciones en la fase de restitución.

Se ha intentado que el número de los mismos fuera de 5 por modelo (según recoge el P.P.T.) pero dada la orografía de la zona no ha sido posible cumplir esta condición en todos los pares.

También se comprobó la situación respecto a la traza de los vértices geodésicos del **I.G.N.** pertenecientes a la **RED REGENTE** y **R.O.I.** para que conformaran el marco de referencia del levantamiento. Los vértices empleados cuyas reseñas oficiales se encuentran en el apartado 5.1.7 son los siguientes:

**Manchota, Pueyo, Galardón, La Estiva, y San Salvador** También se solicitó al **I.G.N.** las reseñas de los clavos **N.A.P.** que existieran en el ámbito del trabajo, discurrendo por la traza la línea **555 Sabiñanigo – Navarri** de las cuales se entregan reseñas en el apartado 4.1.

Ya en fase de campo, los trabajos se iniciaron con la materialización de los vértices que forman la **Red Topográfica** específica del levantamiento. Dicha red se encuentra formada por ocho vértices denominados V8001 a V8008.

De todos los vértices se ha levantado una reseña para facilitar la localización además de incluir los datos técnicos del vértice. Las reseñas se encuentran en el apartado 4.1

Esta red tiene por finalidad situar en las cercanías traza vértices en los cuales se puedan enlazar los ulteriores trabajos que en la zona se desarrollen (Bases de Replanteo, Perfiles, Taquimetría etc), de forma mas accesible y cómoda que la proporcionada por los vértices geodésicos.

La observación de los vértices y de los puntos de apoyo se ha realizado con técnicas GPS.

En el primer caso (vértices) el proceso de observación se ha realizado de la siguiente forma:

Se han utilizado tres receptores bifrecuencia empleando uno como receptor fijo y los otros dos móviles o al contrario en función de las necesidades de la observación.

Durante las observaciones se tuvieron en consideración las siguientes precauciones:

- Que los valores de los "PDOP" fueran inferiores a 5 y número de satélites nunca inferior a cuatro
- Se implantó un máscara de elevación de 15° o mayor en la recepción de las señales para prevenir posibles zonas de sombras y efectos de "rebote" de la señal.
- Tiempos de observación estuvieron en concordancia con la longitud de las líneas base a medir, y nunca con menos de 60 épocas.

La observación de los puntos de apoyo se realizó mediante radiaciones utilizando equipos G.P.S en tiempo real, tomando como puntos fijos los vértices de la Red Básica.

De todos los puntos de apoyo, y sobre el terreno, se ha realizado un croquis detallando el elemento identificado, y describiéndolo de forma literal y precisa. Así mismo, se indica el número de fotograma y pasada donde se ha materializado el punto mediante un ligero pinchazo.

Las reseñas de los puntos de apoyo no se adjuntan en esta entrega provisional.

Finalizadas las observaciones se pasó a la fase de cálculo. Los procesos seguidos en la misma en la que se ha utilizado el programa MOVE3 de la misma firma que los receptores han sido los siguientes:

1. Transferencia a los programas de cálculo de los ficheros observados en campo.
2. Compensación planimétrica (W.G.S. 84 y U.T.M. ED-50)
3. Compensación altimétrica (W.G.S. 84 y U.T.M. ED-50)
4. Transformación de coordenadas

La depuración ha consistido en:

- Eliminación de satélites cuyo movimiento sobre el horizonte, en el tiempo común de los dos ficheros, puestos en relación no es completo.
- Eliminación de los satélites que no siguen una trayectoria estable en el tiempo en común entre los dos receptores, produciéndose altibajos en su órbita.
- Eliminación de satélites en los que se ha perdido la señal de recepción.
- Eliminación de satélites con elevación menor de 15° sobre el horizonte.
- Eliminación de observaciones con menos de cuatro satélites.
- Comienzo del tiempo de observación para un PDOP de valor 4 como mínimo.

- Tiempo mínimo de observación entre bases de 10 minutos (L1/L2/P).
- Ratio mínimo de 1,5.

Una vez calculadas y compensadas todas las observaciones, se procedió a determinar la transformación tridimensional que nos ha permitido traspasar las coordenadas resultantes en el sistema de referencia **GPS WGS84** a coordenadas planas **UTM** asociadas al sistema de referencia **UTM ED-50**, para poder expresar los resultados en ambos sistemas.

Dicha transformación, donde se determinan tres giros, tres traslaciones y un factor de escala, se ha llevado a cabo empleando como vértices comunes en ambos sistemas los vértices geodésicos antes indicados.

A partir de los parámetros obtenidos en esta transformación, y aplicando éstos a la totalidad de los puntos observados, se obtuvieron las coordenadas finales de los mismos en el sistema cartográfico buscado, **UTM ED-50. (HUSO 30)**

Toda la información referente a las observaciones y cálculo se encuentra recogida en el apartado nº 5.

Tomando los clavos N.A.P. como vértices origen, se han efectuado los itinerarios que se acompañan en el punto 4, los cuales han permitido obtener la cota geométrica de todos los vértices excepto de V-8006 y V-8008.

Finalizados los cálculos, se pone de manifiesto que se han alcanzado las precisiones exigidas en el P.P.T.P.

### **REVISIÓN Y ACTUALIZACIÓN DE CARTOGRAFÍA.**

Debido a que los trabajos iniciales se realizaron utilizando el sistema de referencia geodésico ED50, vigente en las fechas en las que se realizaron los encargos, se realizan nuevos trabajos de campo a fecha noviembre 2015, para actualizar la cartografía y bases

al sistema de referencia geodésico ETRS89, sistema de referencia oficial en España según recoge el Real Decreto 1071/2007.

Para la actualización y revisión de la cartografía se tomaron una serie de puntos singulares a lo largo de la traza en el sistema de referencia geodésico ETRS89, de esta manera se crea un sistema de transformación local tipo Helmert (transformación de semejanza de 7 parámetros) de ED50 a ETRS89.

Este sistema de transformación se aplica a toda la cartografía obtenida inicialmente.

Complementario a la transformación descrita, se realiza una actualización de cartografía de las zonas que han sufrido modificación. En concreto se realiza taquimétricos de detalle en la glorieta de enlace de la N-260 Fiscal - Puente De Sabiñanigo y en la zona del cauce en el Barranco de Guargas. Se realiza revisión de campo, modificando sobre cartografía las modificaciones vistas en toda la traza, ( biondas, líneas eléctricas,...)

### **RESTITUCIÓN FOTOGRAMÉTRICA**

La restitución fotogramétrica se ha realizado a escala 1/1.000 con una equidistancia de curvas de nivel de 1 m. utilizando equipos digitales para tal cometido.

En su apartado correspondiente se acompaña la librería de códigos empleada, para poder identificar cualquier elemento restituido, así como los partes de orientación. Los ficheros generados son de carácter binario (\*.bin)

### **Preparación de los trabajos**

En el momento en que se dispuso de las coordenadas de campo de los puntos de apoyo, se preparó un gráfico del trabajo en formato digital de manera que se pudiera dibujar sobre el mismo el ámbito de cada par estereoscópico.

Posteriormente, se analizó par por par decidiendo la zona útil a restituir con cada modelo que normalmente ha sido aquella que quedaba encuadrada dentro del ámbito resultante de la unión de puntos de apoyo evitando siempre el extrapolar fuera de los mismos. En este proceso, si hubiese habido algún punto de apoyo con error grosero se hubiera detectado fácilmente procediendo a averiguar el motivo de dicho error.

Analizada, de esta manera, la totalidad de los pares se estableció el orden de trabajo para cada modelo y la distribución de los mismos.

### **Orientación de los Modelos**

#### **Orientación Interna**

Se han reproducido con la máxima fidelidad posible cada haz perspectivo registrado, con ayuda de los datos de la cámara y las posibilidades ofrecidas por el instrumento de restitución empleado.

En cuanto al centrado, se ha efectuado siempre utilizando las señales fiduciales de mayor precisión. En el parte de orientación se reflejan los errores residuales de este centrado, según los resultados del cálculo.

#### **Orientación Relativa**

La orientación relativa se ha realizado mediante programas de cálculo que proporcionan los valores más probables de los parámetros de orientación a partir de las magnitudes de los paralajes eliminados en un conjunto de zonas del recubrimiento.

Se ha repetido el proceso de medida y cálculo de los parámetros, hasta que la estimación cuadrática del promedio de paralajes residuales no fuera mayor de 0,005 mm.

La magnitud de las paralajes residuales en los puntos utilizados en la Orientación Relativa y la citada estimación final, que se han considerado como definitivos queda registrada en el documento de orientación del par.

#### **Orientación Absoluta**

Llevada a cabo digitalmente, mediante la introducción en el ordenador de las coordenadas terrestres de los PA y sus correspondientes en el modelo, registradas al posar el índice de medición sobre ellos. De esta forma por un proceso puramente numérico, se han determinado los parámetros de orientación externa en cada fotografía, y los de la orientación absoluta del modelo.

Se ha realizado una ficha de cada ajuste en la que se indican los parámetros angulares y lineales del mismo, así como los valores de errores residuales en los Puntos de Apoyo, tanto en planimetría como en altimetría y de aquellos puntos introducidos en el ajuste planimétrico o altimétricamente.

#### **Información a restituir y procedimientos**

El proceso de captura de datos ha consistido en el registro, en soporte informático, de las coordenadas que definen la geometría de aquellos elementos topográficos a representar, asociados con códigos alfanuméricos que permitan establecer unívocamente la naturaleza del elemento

La restitución se ha realizado de forma numérica, registrando de forma digital las coordenadas tanto planimétricas como altimétricas de los elementos a restituir, asociados mediante códigos establecidos para permitir identificar de manera única la naturaleza de la información registrada.

Se ha tomado de cada elemento a restituir las coordenadas suficientes para permitir su representación de acuerdo con las precisiones generales exigidas para la cartografía a realizar, en este caso a escala 1/1.000.

Las coordenadas de todos los puntos se obtuvieron directamente del modelo estereoscópico durante el proceso de restitución, no utilizando procedimiento de interpolación o modelización alguno.

## Planimetría

La restitución planimétrica refleja todos los detalles identificables, en su exacta posición y verdadera forma con dimensión mínima de 1 mm a la escala de salida gráfica, siendo objeto de representación mediante un símbolo convencional normalizado los restantes elementos que por su tamaño no son susceptibles de representar en verdadera magnitud.

## Altimetría

El relieve se representa por curvas de nivel ya citadas. Cuando el terreno tenía un relieve poco acusado se aumentó el número de puntos acotados.

Se incluyen las líneas de cambios de pendiente (pies y/o coronación de taludes, desmontes, etc.)

Se han reflejado las cotas de los vértices geodésicos y topográficos, señales de nivelación, puntos de apoyo ( en el ámbito de la restitución), cumbres, collados, pasos a diferente nivel (arriba y abajo), cambios de pendiente en carreteras, caminos y calles, todos los cruces entre o con vías de comunicación y otros detalles planimétricos que por su significación sea importante reflejar.

La información resultante se editó siguiendo las pautas que a continuación se citan

Cuando una entidad tanto lineal como superficial por razón de sus dimensiones se extendía más allá de una hoja, los puntos de conexión de los distintos fragmentos pertenecientes a la misma entidad poseen coordenadas idénticas.

Si dos elementos lineales se superponen o coinciden, bien a lo largo de un tramo, bien en su totalidad, la zona común a ambos tiene las mismas coordenadas en una entidad que en la otra.

Las líneas de entidades que son paralelas se han generado automáticamente para garantizar la calidad en la representación gráfica e impresión visual. La misma

consideración se ha tenido en cuenta a la hora de la realización de ángulos rectos en esquinas y demás, así como acuerdos tangenciales.

Se ha aplicado simbología cartográfica a todos aquellos elementos que por sus dimensiones en la realidad la han requerido a la hora de su representación cartográfica.

En cuanto a criterios a la hora de codificar los objetos cartográficos se ha tenido en consideración lo siguiente:

Se han distribuido en capas o niveles de acuerdo a lo especificado en la codificación.

La descripción geométrica en función de la primitiva gráfica que representa cada entidad es:

Puntual, cuando el elemento a representar se ha podido identificar por un solo punto con coordenadas tridimensionales. Cuando se ha considerado necesario en función de su naturaleza, se encuentra acompañado por atributos alfanuméricos.

Lineal, cuando el elemento representado tiene continuidad lineal como forma de entidad geométrica, pudiendo estar compuesto por uno o más tramos.

Superficial, cuando el elemento a representar tiene continuidad como elemento lineal cerrado, formando el contorno del objeto en sí.

Por último la información ya tomada como definitiva se dividió en hojas de formato normalizado según el modelo y normas facilitados por la **Dirección Técnica** materializándose la información en soporte papel y traspasada a soporte digital.

## 2. VUELO FOTOGRAMÉTRICO

### 2.1. CALIBRACIÓN DE LA CÁMARA



Calibration Certificate

Nº 02111694

Object Digital Aerial Survey Camera  
 Manufacturer Z/I Imaging D-73431 Aalen  
 Type DMC Panchromatic  
 Serial Number 02111694  
 Customer

Calibration performed at:  
 Deutscher Kalibrierdienst (DKD)  
 Kalibrierstelle für Meßgrößen der geometrischen Optik  
 at Carl Zeiss, Oberkochen (DKD Registration No. : DKD-K-0502)

Number of pages of the certificate 3

Date of Calibration 01.Apr.2005

Certified	Date	Manager Hardware Development Centre	Calibration Performed
	13.May.2005	 (H. Sohnle)	 (Dipl. Ing. J.Hefele)

Cameratype: DMC Serial no.: 02111694  
 Lenses mounted: PAN f=120 mm

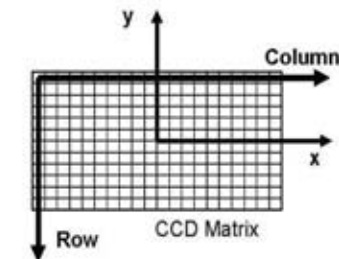
#### Calibration Parameters:

Calibrated Brown Parameters  
 Camera ID : 02111694

	Param	Adjusted	Std.dev.	
Principal Point [mm]	Dxp	-6.694e-005	1.369e-005	is significant
	Dyp	-2.649e-004	8.358e-006	is significant
Focal Length [mm]	Dc	-4.044e-004	2.587e-006	is significant
Radial Distortion	K1	6.688e-001	6.881e-002	is significant
	K2	-3.891e+002	6.336e+001	is significant
	K3	-2.264e+003	1.671e+004	not significant
Decentering distortion	P1	-1.054e-003	3.119e-004	is significant
	P2	-3.440e-004	1.591e-004	is significant
In Plane Distortion	b1	-1.582e-005	1.578e-005	not significant
	b2	9.851e-005	9.820e-006	is significant

Adjusted Focal length = 120+ dc =119.9995956 [mm]

Definition of coordinate system:





Distortion Model:

$$\begin{bmatrix} \bar{x} \\ \bar{y} \\ \bar{z} \end{bmatrix} = \begin{bmatrix} x - x_0 \\ y - y_0 \\ -f \end{bmatrix} \quad r = \sqrt{\bar{x}^2 + \bar{y}^2}$$

$$\Delta x = \Delta x_0 - \frac{\bar{x}}{\bar{z}} \Delta f + \bar{x}(r^2 K_1 + r^4 K_2 + r^6 K_3) + (r^2 + 2\bar{x}^2)P_1 + 2\bar{x}\bar{y}P_2 + \bar{x}B_1 + \bar{y}B_2$$

$$\Delta y = \Delta y_0 - \frac{\bar{y}}{\bar{z}} \Delta f + \bar{y}(r^2 K_1 + r^4 K_2 + r^6 K_3) + 2\bar{x}\bar{y}P_1 + (r^2 + 2\bar{y}^2)P_2$$

**Note:**

DMC Virtual images get computed from 4 (pan) up to 8 (pan + multi spectral) cameras. During generation of virtual images (image mosaics) lens distortion gets completely eliminated. The resulting virtual image is a distortion free image rectified to a nominal focal length of 120 mm [Dörstel, Jacobsen, Stallmann, 2003; Zeitler, Dörstel, Jacobsen, 2002].

Camera calibration must not be applied during data compilation as the virtual images have nominal focal length, are distortion free and have no fiducial marks.

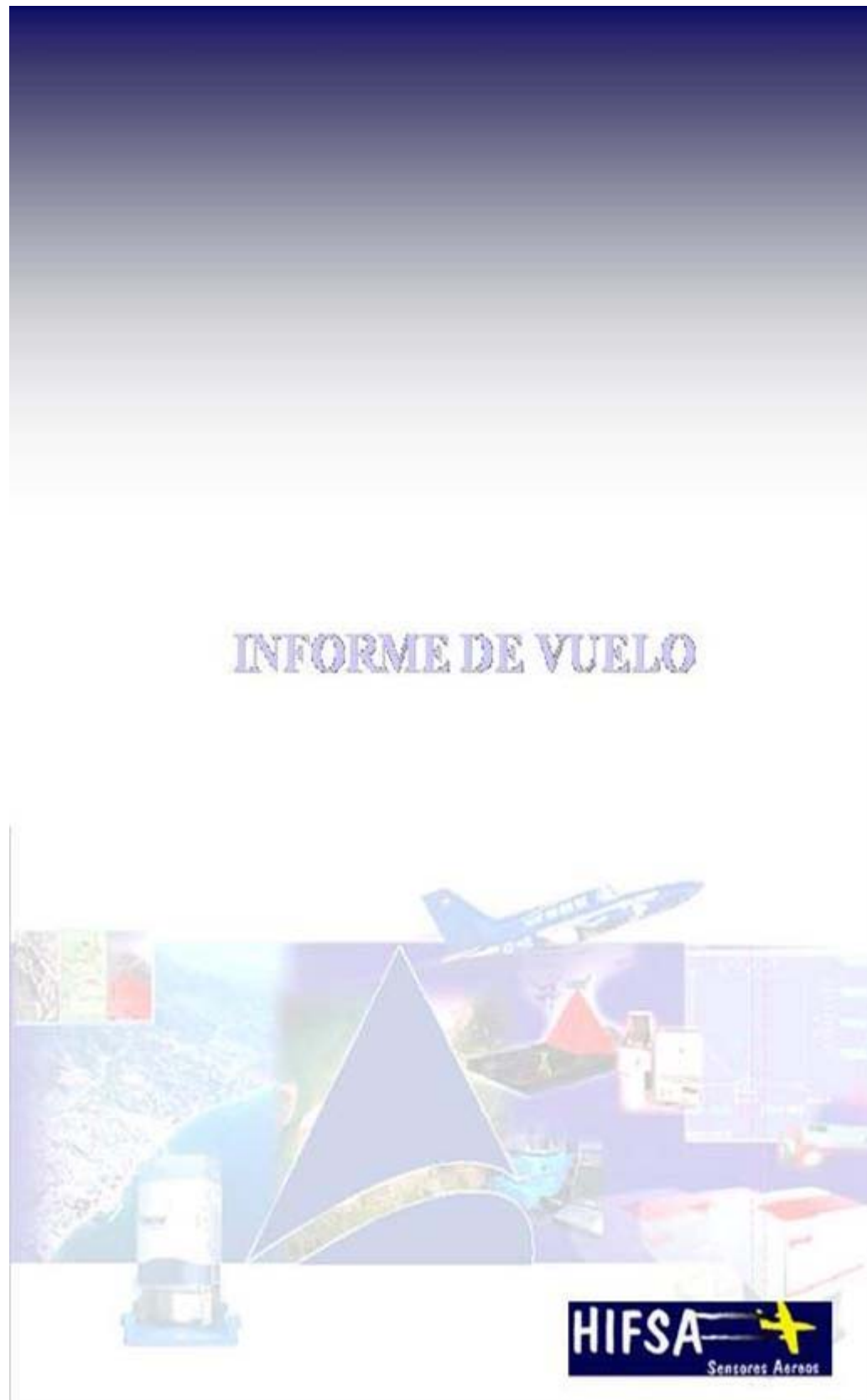
Camera Calibration Parameters listed referring to DMC intermediate images!

DMC geometric calibration is performed at the Carl Zeiss Calibration laboratory. The instruments used are calibrated items and being certified for camera calibration by *Deutscher Kalibrier Dienst* with permission of *Physikalisch-Technische Bundesanstalt*. The Brown Parameter Model (so called *Australis Parameter*) is used to model the camera geometry. The algorithms used to compute the *Australis Parameters* is developed by ifp (Stuttgart Institute for Photogrammetry) and published at [Dörstel et al. 2003]. The resulting DMC image mosaics are corrected for all geometric influences.

Dörstel C., Jacobsen K., Stallmann D. (2003): DMC – Photogrammetric accuracy – Calibration aspects and Generation of synthetic DMC images, Eds. M. Baitsavias / A. Grün, Optical 3D Sensor Workshop, Zürich

Zeitler W., Dörstel C., Jacobsen K. (2002): Geometric calibration of the DMC: Method and Results, Proceedings ASPRS, Denver, USA.

2.2. INFORMES DE VUELOS



### Datos proyecto

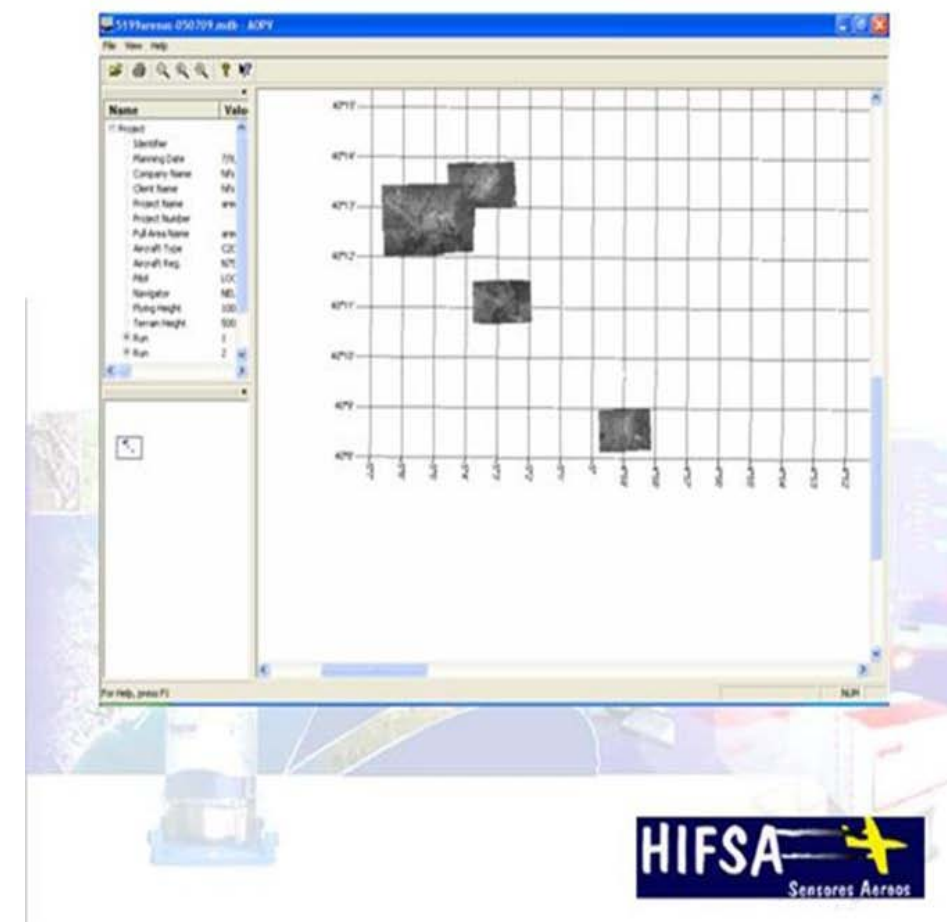
**Nombre del proyecto:** Vuelo fotogramétrico digital a resolución 10 cm.

**Zona trabajo:** N-260 Balupor - Fiscal (Huesca).

**Fecha de vuelo:** 04/01/2007

**Cliente:** Cartogesa.

**Ot:** 6257



## Datos de vuelo

- Escala de imagen: 1/8.333
- GSD: 10 cm.
- Longitud focal: 120 mm.
- Recubrimiento longitudinal: 60%
- Recubrimiento transversal: 30%
- Altura sobre el terreno: 1.000 m.
- Nº de imágenes: 61



## Datos geométricos

- Escala de imagen: 1/8.333
- Focal equivalente: 120 mm
- Tamaño imagen física: 165.8x92.1 mm
- Tamaño imagen virtual: 13824x7680 pixels
- Tamaño imagen virtual terreno: 768x1382 m.
- Tamaño pixel: 12 micras
- Tamaño imagen terreno: 0.10 m
- Distancia entre fotocentros: 307.2 m

### Productos:

- Imágenes color natural, RGB.

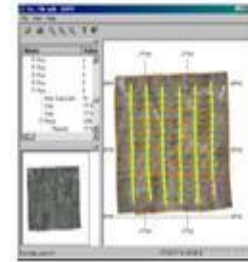




## Cámara Digital

HIFSA ha incorporado a sus medios técnicos la cámara digital DIGITAL MAPPING CAMERA - DMC (Zeiss/Intergraph)

Cámara digital: es el instrumento fotográfico que permite, mediante un sensor de imágenes electrónico (conjunto de CCDs), obtener imágenes fotogramétricas digitales de forma directa



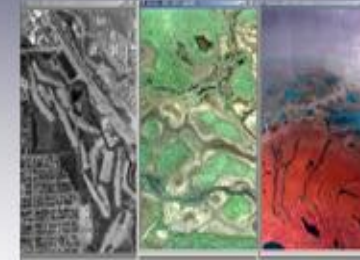
Formato de imagen	13824x7680 píxeles
Tamaño de CCD	12 micras
Distancia focal	120 mm
Sistema GPS/INS	Integrado en el sistema
Resolución radiométrica	12-bit / Canal
Canales espectrales	Pancromático, Rojo, Azul, Verde, IR Cercano
Compensación FMC	Electrónica TDI (Time Delay Integrated)
Almacenamiento en vuelo	2200 imágenes
Ángulo de campo	69.3° en sentido transversal a la traza 42° en el sentido de la traza
Disparador, apertura	variable de 1/50 a 1/300 seg. f/4 - f/22

### COMPONENTES DE LA CÁMARA DMC

- Cámara digital: 8 objetivos ópticos
  - 4 Pancromático
  - 4 multispectrales
- Sensor electrónico de imágenes: matriz de CCDs
- Sistema de Navegación: ASMS (Airborne Sensor Management System)
- Sistemas GPS e INS
- Sistemas de almacenamiento masivo en vuelo: FDS (Flight Data Storage)
- Estación de post-proceso en tierra: PPS (Post Processing System)



## Cámara Digital



### PRODUCTOS DE LA CÁMARA DMC

- Imágenes digitales de alta resolución:
  - Tamaños de píxel terreno a partir de 5cm.
  - B/N (Pan), Color, e Infrarrojo.
- Orientación Directa de las imágenes.

### OTROS PRODUCTOS:

- Planificación y control de calidad
- Vistas rápidas de las imágenes para su inspección Sig con base de datos del vuelo

### APLICACIONES DE LA CÁMARA DMC:

- Cartografía digital
- Fotogrametría digital: ortofoto y ortofoto verdadera ("True Ortho")
- Reconocimiento del territorio: fotointerpretación.
- Archivos de información métrica.
- Estudios ambientales, agronómicos y forestales
- Combinación con sensores de distinta naturaleza: LIDAR

En general todas las relacionadas con fotogrametría, cartografía y fotointerpretación. Y especialmente indicada para flujos de producción digital masiva donde sea básico el plazo y rendimiento, por la eliminación de procesos y automatización de las fases restantes.

Las imágenes en color infrarrojo son muy interesantes para su uso en estudios medioambientales, agricultura y forestal.



### VENTAJAS

- No necesita película
- No necesita laboratorio
- No necesita escaner.
- Orientación directa
- OI rígida
- 12 Bit radiometría
- No ruido scan
- B/N - Color - Infrarrojo simultáneamente

### REDUCCIÓN DE PROCESOS

### REDUCCIÓN DE PLAZOS

### MEJOR CALIDAD RADIOMÉTRICA

### MAYOR PRECISIÓN

### MÁS PRODUCTOS



**INFORME DE VUELO**  
OT: 2006/6257  
TRABAJO: N-260 BALUPOR-FISCAL  
FECHA: 20 de septiembre de 2007



C/ Apolonio Morales Nº 6,  
28036 - Madrid  
Tel: 914 430 286 Fax: 914 578 286



**INFORME DE VUELO**

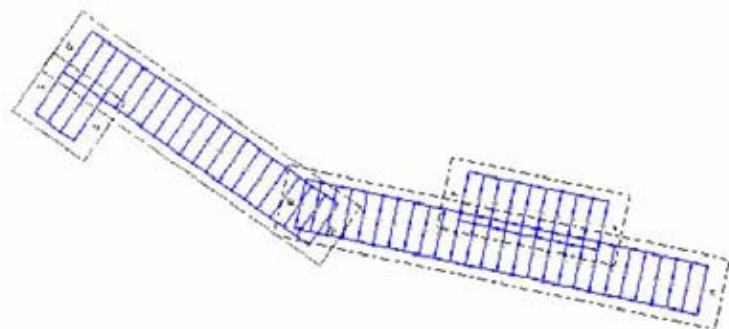
**ÍNDICE:**

	Página
1.- Planificación del vuelo	3
2.- Ejecución del vuelo fotogramétrico	3
2.1.- Características técnicas	4
2.2.- Recursos Humanos	5



### 1.- PLANIFICACIÓN DEL VUELO.

A partir de la delimitación entregada por el cliente de la zona de vuelo, se digitaliza y se comprueba sobre cartografía digital raster georreferenciada. A continuación, se procede a realizar la planificación del vuelo en función de la escala, recubrimientos, dirección de las pasadas y horario solar pertinentes en cada caso y solicitados por el cliente.



De la planificación ha resultado un total de **4 pasadas** y un total de **61 fotografías**.

### 2.- EJECUCIÓN DEL VUELO.

El proyecto de vuelo ha sido realizado siguiendo las normas de Aviación Civil y del Consejo Superior Geográfico.

Las condiciones meteorológicas y de visibilidad existentes en el zona durante la toma fotográfica resultaron ser las idóneas para la realización del vuelo fotogramétrico.

El vuelo de la zona planificada fue realizado el día **04/01/2007** siendo el área fotografiada una zona en **Huesca**.

### 2.1.- Características técnicas.

El vuelo digital fotogramétrico ha sido realizado con un GSD<sup>1</sup> de **10 cm.** y un recubrimiento longitudinal de **60%** y transversal del **30%**. La dirección de las pasadas ha sido **libre**, ajustándose a la delimitación.

La cámara empleada ha sido una cámara digital **DMC de Intergraph** con un objetivo de **120 mm** de distancia focal, dotada con dispositivo electrónico para la compensación del arrastre de la imagen (F.M.C.) y microprocesador para el control automático de la exposición (P.E.M.). Además del sistema de navegación e inercial se encuentran integrados en el sistema.

La distorsión radial de los objetivos es siempre inferior a 10 micras en todo el formato excepto en las regiones próximas a las esquinas y el AWAR de cada una de ellas de 100 líneas pares por milímetro.



Dicha cámara está montada sobre una plataforma de sustentación giroestabilizada T-AS de tal modo que quedan ampliamente amortiguados los efectos de las vibraciones mecánicas del avión, así como los giros en  $\omega$ ,  $\phi$ ,  $\kappa$ .

<sup>1</sup> Huella del píxel de la fotografía sobre el terreno.



El avión empleado para este trabajo ha sido un **Cessna 402** dotado de los más avanzados elementos técnicos para la navegación aérea: GPS, instrumentación para vuelo instrumental, VOR, ADF, RMI, HSI.

## 2.2.- Recursos Humanos.

El equipo humano con el cual ha sido posible realizar este proyecto está compuesto por :

- Un equipo de navegación (Comandante de vuelo y Observador).
- Dos responsables técnicos del proyecto de vuelo.
- Dos técnicos de fotografía.
- Dos técnicos comerciales.
- Un director responsable de todos los componentes.

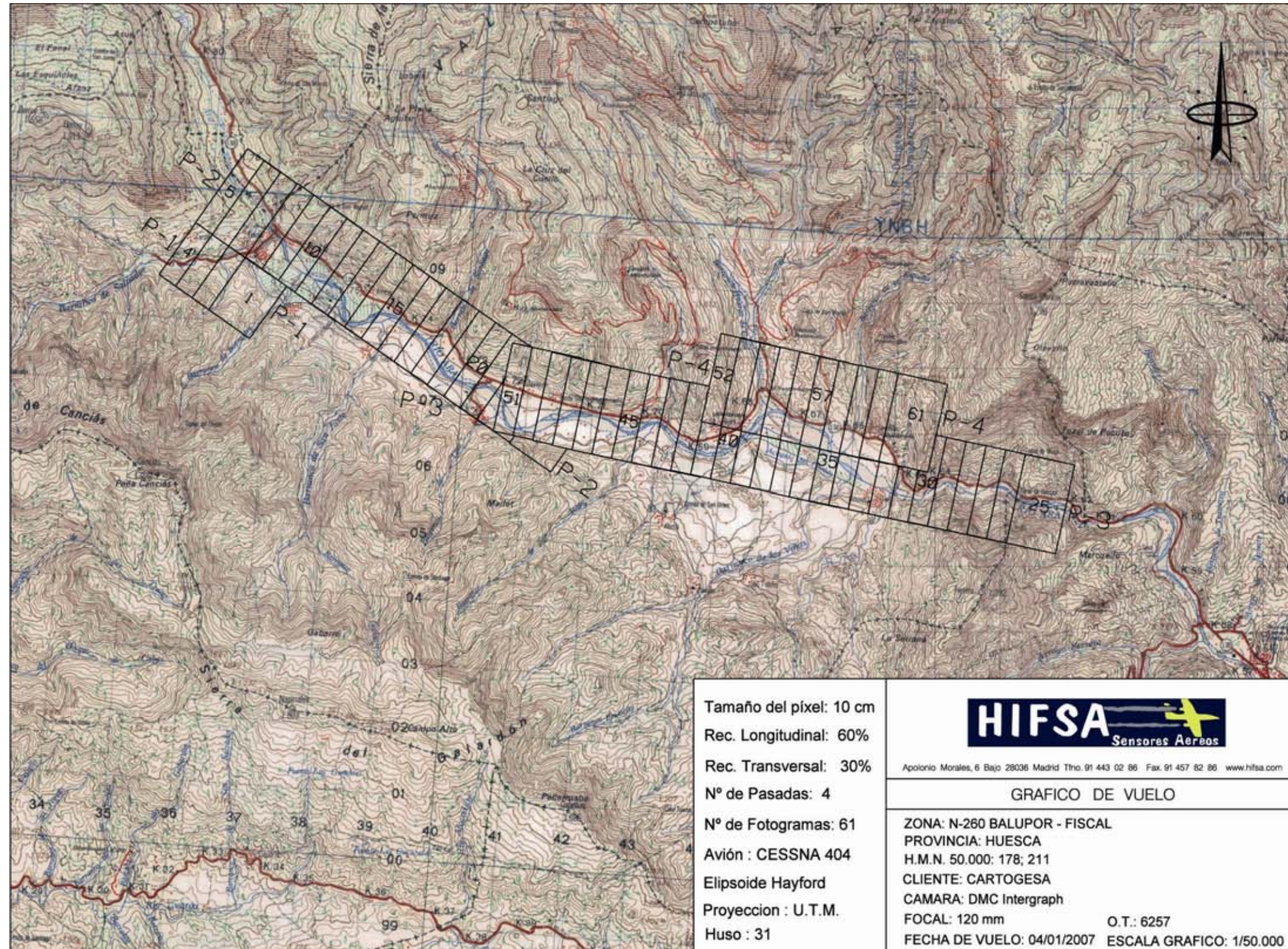
Run	Frame	Exposure	Time	E (m)	N (m)	GPS-altitude	Heading
Photography by : hifsa							
EXPOSURE REPORT of ed50-utm-31							
				Client : hifsa			
				Project: ed50-utm-31			
Photo Scale: 1: 8333				Number :			
Camera :				Cal. Focal Length: 120.0000m			
Aircraft : C206				Area : ed50-utm-31			
Run	Frame	Exposure	Time	E (m)	N (m)	GPS-altitude	Heading
- Run 3----- Film Number 0 ----- Heading W -----							
3	10	4	9/12/200710:55:18	255587.170	4705979.819	1831.643	280
3	9	5	9/12/200710:55:21	255286.626	4706043.741	1829.690	280
3	8	6	9/12/200710:55:25	254987.008	4706106.382	1828.911	280
3	7	7	9/12/200710:55:29	254686.159	4706171.058	1830.071	280
3	6	8	9/12/200710:55:33	254385.092	4706238.344	1829.789	281
3	5	9	9/12/200710:55:37	254085.656	4706307.357	1827.829	281
3	4	10	9/12/200710:55:41	253785.061	4706375.715	1824.822	281
3	3	11	9/12/200710:55:44	253486.172	4706439.849	1822.416	280
3	2	12	9/12/200710:55:48	253184.562	4706500.226	1820.078	279
3	1	13	9/12/200710:55:52	252883.159	4706558.695	1816.941	279
- Run 2----- Film Number 0 ----- Heading NW -----							
2	7	14	9/12/200710:56:56	248215.580	4707250.781	1890.370	298
2	6	15	9/12/200710:57:0	247957.337	4707411.660	1896.890	301
2	5	16	9/12/200710:57:4	247703.925	4707582.191	1902.976	303
2	4	17	9/12/200710:57:8	247452.677	4707759.145	1906.034	303
2	3	18	9/12/200710:57:12	247199.536	4707932.317	1910.058	303
2	2	19	9/12/200710:57:17	246948.434	4708109.563	1910.106	303
2	1	20	9/12/200710:57:21	246697.357	4708288.114	1910.274	303
- Run 1----- Film Number 0 ----- Heading SE -----							
1	1	21	9/12/200711:1:31	242891.087	4709811.519	1894.231	124
1	2	22	9/12/200711:1:34	243141.853	4709633.781	1897.049	123
1	3	23	9/12/200711:1:38	243393.858	4709458.043	1898.188	123
1	4	24	9/12/200711:1:41	243645.303	4709281.947	1899.602	123

Run	Film Number	Heading	SE
1	4	1	1/4/200711:37:24 243639.911 4709284.102 1902.620 303
1	3	2	1/4/200711:37:28 243389.972 4709460.777 1895.301 303
1	2	3	1/4/200711:37:33 243138.950 4709638.325 1896.738 303
1	1	4	1/4/200711:37:37 242887.909 4709816.774 1902.732 303
2	1	5	1/4/200711:40:46 243443.870 4710609.983 1879.803 124
2	2	6	1/4/200711:40:50 243693.856 4710427.382 1873.560 124
2	3	7	1/4/200711:40:53 243946.620 4710254.098 1870.612 122
2	4	8	1/4/200711:40:57 244200.314 4710083.078 1869.604 122
2	5	9	1/4/200711:41:0 244452.223 4709905.998 1868.197 123
2	6	10	1/4/200711:41:3 244701.181 4709727.495 1863.238 124
2	7	11	1/4/200711:41:7 244951.654 4709547.724 1862.022 123
2	8	12	1/4/200711:41:10 245205.046 4709371.855 1863.227 122
2	9	13	1/4/200711:41:13 245456.322 4709199.135 1863.249 122
2	10	14	1/4/200711:41:17 245709.538 4709023.980 1861.859 123
2	11	15	1/4/200711:41:20 245961.134 4708844.210 1861.095 124
2	12	16	1/4/200711:41:23 246209.826 4708666.786 1858.574 123
2	13	17	1/4/200711:41:26 246461.609 4708491.148 1857.554 123
2	14	18	1/4/200711:41:30 246714.844 4708316.599 1854.659 123
2	15	19	1/4/200711:41:33 246966.500 4708139.171 1849.815 123
2	16	20	1/4/200711:41:36 247217.339 4707963.748 1846.852 123
2	17	21	1/4/200711:41:40 247471.860 4707789.465 1844.643 122
2	18	22	1/4/200711:41:43 247723.230 4707616.612 1840.234 123
2	19	23	1/4/200711:41:46 247971.459 4707437.283 1838.673 124
2	20	24	1/4/200711:41:50 248218.809 4707249.485 1843.973 126

Run	Film Number	Heading	W
3	27	25	1/4/200711:47:49 255591.886 4705982.763 1793.294 280
3	26	26	1/4/200711:47:53 255292.124 4706050.325 1793.574 281
3	25	27	1/4/200711:47:56 254992.323 4706115.880 1795.741 280
3	24	28	1/4/200711:48:0 254689.863 4706178.385 1797.031 280
3	23	29	1/4/200711:48:4 254390.815 4706241.306 1799.460 280
3	22	30	1/4/200711:48:7 254090.503 4706305.791 1802.117 280
3	21	31	1/4/200711:48:11 253788.893 4706367.928 1803.967 279
3	20	32	1/4/200711:48:15 253489.381 4706429.973 1802.888 280
3	19	33	1/4/200711:48:19 253188.239 4706497.741 1799.187 281
3	18	34	1/4/200711:48:22 252888.158 4706565.044 1796.088 280
3	17	35	1/4/200711:48:26 252587.697 4706629.043 1793.585 280
3	16	36	1/4/200711:48:30 252286.198 4706688.367 1790.684 279
3	15	37	1/4/200711:48:34 251988.061 4706753.643 1791.367 281
3	14	38	1/4/200711:48:37 251687.305 4706823.378 1792.379 281
3	13	39	1/4/200711:48:41 251387.633 4706888.612 1793.614 280
3	12	40	1/4/200711:48:45 251087.761 4706952.093 1793.135 280
3	11	41	1/4/200711:48:49 250786.943 4707022.552 1794.562 281
3	10	42	1/4/200711:48:52 250485.716 4707084.898 1793.503 279
3	9	43	1/4/200711:48:56 250185.971 4707142.696 1798.396 279
3	8	44	1/4/200711:49:0 249883.835 4707203.024 1802.123 279
3	7	45	1/4/200711:49:4 249583.297 4707265.723 1799.433 280
3	6	46	1/4/200711:49:8 249282.752 4707330.226 1794.622 280
3	5	47	1/4/200711:49:12 248981.695 4707395.387 1790.850 280
3	4	48	1/4/200711:49:16 248683.589 4707463.360 1791.625 281
3	3	49	1/4/200711:49:20 248384.403 4707537.955 1790.193 282
3	2	50	1/4/200711:49:24 248086.343 4707614.335 1787.051 282
3	1	51	1/4/200711:49:28 247784.833 4707681.654 1784.866 280
4	1	52	1/4/200711:53:51 250955.519 4707823.262 1783.084 102
4	2	53	1/4/200711:53:53 251254.665 4707749.459 1778.518 102
4	3	54	1/4/200711:53:57 251553.294 4707679.773 1778.384 101
4	4	55	1/4/200711:54:0 251853.137 4707614.389 1778.340 100
4	5	56	1/4/200711:54:3 252151.644 4707544.219 1778.289 102
4	6	57	1/4/200711:54:6 252451.681 4707472.115 1778.161 101
4	7	58	1/4/200711:54:9 252751.679 4707404.992 1779.521 100
4	8	59	1/4/200711:54:13 253053.396 4707342.571 1781.700 99
4	9	60	1/4/200711:54:16 253354.322 4707282.496 1780.530 99
4	10	61	1/4/200711:54:19 253654.554 4707217.500 1778.089 100



### 2.3. GRÁFICO DE VUELO





### 3. CALIBRACIÓN DE LOS APARATOS USADOS

#### 3.1. CARACTERÍSTICAS TÉCNICAS DEL GPS UTILIZADO



Receptor GPS doble frecuencia Ashtech Z-Xtreme

#### Tecnología Ashtech :

- Funcionamiento 12 Canales, todos-a-la-vista.
- Recuperación de la portadora completa en L1 y L2.
- Seguimiento-Z.
- Mitigación de las multireflexiones.
- Suavizado por doble frecuencia para mejora de las correcciones diferenciales de código.

#### Características Standard.

- Tarjeta PCMCIA sustituible, memoria 16Mb.
- Salida de mensajes NMEA 0183.
- Actualización de datos seleccionable desde 999 segundos hasta 10 Hz.
- Marcador de acontecimientos.
- Posicionamiento puntual.
- Marca de tiempo, un pps.
- Programación de sesiones.
- Amplia gama de transformación de coordenadas.
- Batería interna sustituible.
- Display LED alfanumérico, ocho caracteres, con interfase de cuatro botones.
- Display de tres funciones con LED's; radio, memoria y satélites/alimentación.
- Alarma acústica multifunción.
- Alojamiento para la guía rápida.
- Capacidad de soporte externo.
- Alimentación externa.
- Cuatro puertos serie RS232 (máximo 115.200 baudios, 3 externos y 1 interno).
- Garantía: 1 Año.
- Apoyo técnico del fabricante.

#### Accesorios Standard.

- Programas de comunicaciones
- Bolsa almohadillada y maleta de transporte.
- Cable de datos.
- Manual de operaciones del receptor.
- Tarjeta de campo para referencia rápida.



#### Características

- Logical residente para RTK instantáneo.
- Modo de trabajo RTK, base y móvil.
- RTCM versión 2.2. mensajes (1, 2, 3, 9, 16, 18, 19, 20, 21, 22)
- Radio UHF interna para operaciones RTK, unidad móvil.
- Radio UHF externa para operaciones RTK, base y móvil.
- Antena geodésica con plano de tierra.
- Antena cinemática.
- Antena aérea.
- Cable de alimentación.
- Antena choke-ring.
- Conjunto de mochila para operaciones de campo.
- Conjunto de accesorios para instalación sobre jalón.

#### Opcionales.

#### Especificaciones Técnicas.

##### Modo de Trabajo, Estático Rápido

Horizontal: 5mm + 1 ppm  
 Vertical: 10mm + 1ppm

##### Modo de Trabajo, Cinemático Postprocesado.

Horizontal: 1 cm + 1 ppm  
 Vertical: 2 cm + 1 ppm

##### Modo de Trabajo, Diferencial, Código, Tiempo real

Precisión submétrica: < 1m

##### Posicionamiento Cinemático "Z" Tiempo Real

Horizontal: 1 cm + 2 ppm  
 Vertical: 2 cm + 2 ppm  
 Azimut (según el arco) 0.4 + 2.0/baselínea (km).

Tiempo de ocupación RTK: 2 Segundos. (precisión subcentimétrica prolongado el tiempo de ocupación)

##### Inicialización RTK Instantánea

Fiabilidad: 99.9%  
 Típicamente: < 2 segundos con 6 ó más satélites, PDOP < 5, baselínea. < 7 Km., condiciones favorables de multireflexiones.

##### Alcance Operativo RTK.

Recomendado: < 10Km  
 Máximo: 40 Km

##### Condiciones ambientales para Receptor Z-Extreme con batería interna.

Cumple la especificación militar MIL-STD 810E en lo que se refiere a lluvia y polvo.

Temperatura de funcionamiento: -30/+55°C  
 Temperatura de almacenamiento: -40/+85°C



Antena Geodésica: Cumple la especificación IPX7 relativa a la inmersión en agua.

Temperatura de funcionamiento:  $-40^{\circ}/+65^{\circ}\text{C}$   
 Temperatura de almacenamiento:  $-55^{\circ}/+75^{\circ}\text{C}$

#### CARACTERÍSTICAS FÍSICAS

Receptor: 1,575 Kilos.  
 Antena: 0,878 Kilos.  
 Dimensiones: 7,6x19,7x22,2cm  
 Alimentación: 10-28 VDC, 6.0  
 Bateña interna, w.  
 capacidad 5400 mAh, 10 horas.



#### Tarjeta PC de Memoria.

Tarjeta de memoria: PCMCIA ATA tipo II.  
 Temperatura de funcionamiento:  $-40^{\circ}/+85^{\circ}\text{C}$ .  
 Capacidad: 4500 épocas x 2 MB., basado en una sesión de medidas totales, datos de 8 satélites. Esta cifra puede variar de modo significativo según las condiciones de la observación.

#### Logical Opcional.

**AOSS**, Software de Soluciones  
 Ashtech para Oficina

**Survey Pro**, Software para colector de datos.

**NOTA:** Estas especificaciones asumen que las observaciones respetan los procedimientos recomendados en el manual del usuario para la RTK Instantánea y Postproesado con los programas Ashtech Solutions ó AOSS. Los resultados se verán afectados en zonas de alto multipath con valores PDOP muy altos, con visibilidad reducida de los satélites y con periodos de condicionantes atmosféricos adversos. Todas las especificaciones de precisión que se citan son valores RMS.

CERTIFICACIÓN CALIDAD INTERNACIONAL  
 ISO 9001

### 3.2.CALIBRACIÓN DEL NIVEL UTILIZADO

**CERTIFICADO DE CALIBRACIÓN**

*Certificate of Calibration*

Número **SAT/3.985**  
 Number

Página 1 de 2 páginas  
 Page 1 of 2 pages

La Florida, 1. Nave 6. Pol. Ind. Villapark  
 28670 Villaviciosa de Odón - Madrid  
 Telf.: 902 468 704  
 Fax: 915 934 883  
 www.latecnica.com

<b>OBJETO</b> <i>Item</i>	Nivel Óptico
<b>MARCA</b> <i>Mark</i>	WILD
<b>MODELO</b> <i>Model</i>	NA-24
<b>IDENTIFICACION</b> <i>Identification</i>	5221798
<b>SOLICITANTE ( Cliente)</b> <i>Applicant</i>	APLICACIONES TOPOGRAFICAS Y GEODESI CL/General Romero Basart,,97,C 28044-Madrid MADRID
<b>FECHA/S DE CALIBRACION</b> <i>Date/s of Calibration</i>	18-10-2006
<b>Signatario/s Autorizado/s</b> <i>Authorized Signatories</i>	<b>Fecha de emisión</b> 30-10-2006 <i>Date of issue</i>
<b>Andrés Muñoz Mosquera</b> - Director Técnico -	

Este certificado se expide de acuerdo con las condiciones de la norma ISO 17025, comprobando las capacidades de medida del laboratorio y su trazabilidad a patrones nacionales.  
 Este certificado no podrá ser reproducido parcialmente sin la aprobación por escrito del laboratorio que lo emite.  
 This certificate is issued in accordance with the conditions of rule ISO 17025 assessing the measurement capability of the laboratory and its traceability to national standards.  
 This certificate may not be partially reproduced, except with the prior written permission of the issuing laboratory.

Inscrita en Registro Mercantil de Madrid, Tomo 8.093, Hoja 77.822, Folio 202, General 7.021, Sección 3ª CIF: A-78569512

**CERTIFICADO DE CALIBRACIÓN**

*Certificate of Calibration*

Número **SAT/3.985**  
 Number

Página 2 de 2 páginas  
 Page 2 of 2 pages

La Florida, 1. Nave 6. Pol. Ind. Villapark  
 28670 Villaviciosa de Odón - Madrid  
 Telf.: 902 468 704  
 Fax: 915 934 883  
 www.latecnica.com

**PROCEDIMIENTO SEGUIDO:**  
 PC.01/STLT del Manual de Procedimientos del Laboratorio

**PATRON UTILIZADO:**  
 Colimadores, marca PENTAX, mod. C-5 de 4 ejes, nº de serie C5429.007 y C5429.008, con sus correspondientes certificados del CENTRO ESPAÑOL DE METROLOGIA CEM-C-05/0784-1.6 y CEM-C-05/0783-1.6

**INCERTIDUMBRE DE PATRONES DE MEDIDA +/- 0,70 mgon EXPRESADA PARA NIVEL DE CONFIANZA DEL 95% (K=2).**

**CONDICIONES AMBIENTALES:** RANGO DE TEMPERATURA: 22 - 23 °C

**DATOS TECNICOS:** Aumentos 24.0000 X Exact. Estab +/- 0,2469 mgon Precisión Nominal +/- 2.0000 mm

DATOS ENTRADA	CALIBRACION	DATOS SALIDA	INCERTIDUMBRE (K=2) (*)
no medible mgon	Nivel Óptico Automático	0,0 mgon	1,4 mgon (**)

(\*) La incertidumbre expandida de medida se ha obtenido multiplicando la incertidumbre típica de medición por el factor de cobertura K=2 que, para una distribución normal corresponde a una probabilidad de cobertura de aproximadamente el 95%. La incertidumbre típica de medida se ha determinado conforme el documento EAL-R2.  
 (\*\*) Incertidumbre equivalente a 1 mm, a una distancia de 50 m.  
 (\*\*\*) Las unidades angulares se expresan en gon. La equivalencia con la unidad del Sistema Internacional es: 100 gon = 90°. Los datos hacen referencia al momento y condiciones en que se efectuaron las mediciones.


**Signatario/s Autorizado/s** **Fecha de emisión** 30/10/2006  
*Authorized Signatories* *Date of issue*

**S.T. LA TÉCNICA, S.A.**  
**Exp. Técnico**  
 Andrés Muñoz Mosquera  
 - Director Técnico -

Inscrita en Registro Mercantil de Madrid, Tomo 8.093, Hoja 77.822, Folio 202, General 7.021, Sección 3ª CIF: A-78569512

#### 4. NIVELACIÓN GEOMÉTRICA

##### 4.1. RESEÑAS DE NIVELACIÓN DE LA RED N.A.P.



Ministerio de Fomento  
Subsecretaría

General Ibañez de Ibero, 3  
28003 MADRID

Dirección General del Instituto Geográfico Nacional  
Subdirección General de Geodesia y Geofísica

**Reseña de Señal de Nivelación** 07-jun-05

Datos de la Señal			
Número:	555103	Nombre:	NAP J79
Anterior:	555102	Posterior:	555104
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	555104 - NGV164.
En posición Vertical			
Fechas	Señalización:	01-nov-72	Nivelación:
			Cálculo:
			01-feb-04

Datos Geográficos			
Longitud WGS84:	Altura ortométrica:	625,76755 m.	
Latitud WGS84:	Geopotencial:	613,37047 u.g.p.	
Hoja MTN50:	211	Gravedad en superficie:	980162,47 mgals. <i>Calculada</i>
Provincia:	Huesca	Municipio:	Boltaña

**Reseña**

Clavo metálico con la inscripción NAP J 79 incrustado aproximadamente en el Km. 447,350 en la margen izquierda de la Carretera N-260 de Biescas a Aínsa, con dirección a Aínsa, sobre roca nativa al N. de un tramo de la antigua carretera N-260, junto a un puente-alcantarilla, antes del camino a Ascaso, con las referencias indicadas en el croquis.

**Observaciones**

Es la antigua señal NAP J 79, -folio 52- de la línea de nº 122, Sabiñánigo a Benabarre, de 1972.

NO EXISTE  
CROQUIS

NO EXISTE  
FOTOGRAFÍA



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**Reseña de Señal de Nivelación** 07-jun-05

Datos de la Señal			
Número:	555102	Nombre:	SSK 448,7
Anterior:	555101	Posterior:	555103
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización:	17-may-99	Nivelación:
			Cálculo:
			01-feb-04

Datos Geográficos			
Longitud WGS84:	Altura ortométrica:	639,65190 m.	
Latitud WGS84:	42° 27' 59"	Geopotencial:	626,97557 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980155,34 mgals. <i>Observada</i>
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**

Clavo metálico semiesférico incrustado aproximadamente en el Km. 448,7 de la margen S. de la Carretera N-260 de Biescas a Aínsa, sobre la 1ª grada de un muro escalonado a la entrada del 2º túnel de Balupor, a 1,20 m. de altura sobre el suelo, según croquis

**Observaciones**

NO EXISTE  
CROQUIS

NO EXISTE  
FOTOGRAFÍA





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**Reseña de Señal de Nivelación**

07-jun-05

Datos de la Señal			
Número:	555101	Nombre:	SSK 449,6
Anterior:	555100	Posterior:	555102
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	640,82055 m.
Latitud WGS84:	42° 28' 04"	Geopotencial:	628,11994 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980153,53 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

Reseña
Clavo metálico semiesférico incrustado aproximadamente en el Km. 449,6 de la margen S. de la Carretera N-260 de Biescas a Aínsa, en la acera de la boca de entrada al túnel de la carretera antigua (en la margen S.), según croquis.

Observaciones

NO EXISTE  
CROQUIS

NO EXISTE  
FOTOGRAFÍA



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**Reseña de Señal de Nivelación**

07-jun-05

Datos de la Señal			
Número:	555100	Nombre:	SSK 450,6
Anterior:	555099	Posterior:	555101
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	685,15505 m.
Latitud WGS84:	42° 28' 04"	Geopotencial:	671,57278 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980147,30 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

Reseña
Clavo metálico semiesférico incrustado aproximadamente en el Km. 450,6 de la margen S. de la Carretera N-260 de Biescas a Aínsa, sobre una roca nativa, a 1.70 m. del borde de la calzada y 2.10 m. al D. del poste de tño. nº 91, según croquis.

Observaciones

NO EXISTE  
CROQUIS

NO EXISTE  
FOTOGRAFÍA


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**Reseña de Señal de Nivelación**

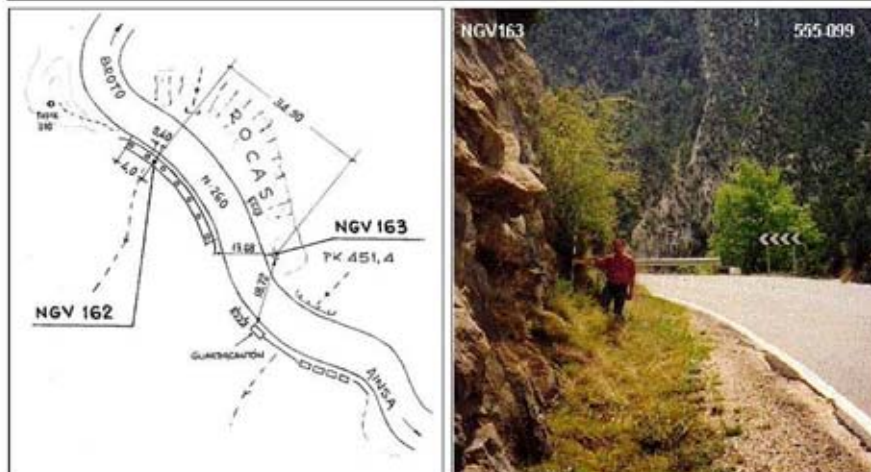
07-jun-05

Datos de la Señal			
Número:	555098	Nombre:	NGV163
Anterior:	555098	Posterior:	555100
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navari
Señal:	Principal	Agrupada con:	555098 - NGV162.
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 703,83080 m.
Latitud WGS84:	Geopotencial: 689,87880 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980147,48 mgals. <i>Calculada</i>
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
 Clavo metálico con la inscripción NG V 163 incrustado aproximadamente en el Km. 451,4 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, sobre una roca nativa, a 2.50 m. del borde de calzada, unos 0.50 m. por encima del suelo, según croquis.

**Observaciones**




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**Reseña de Señal de Nivelación**

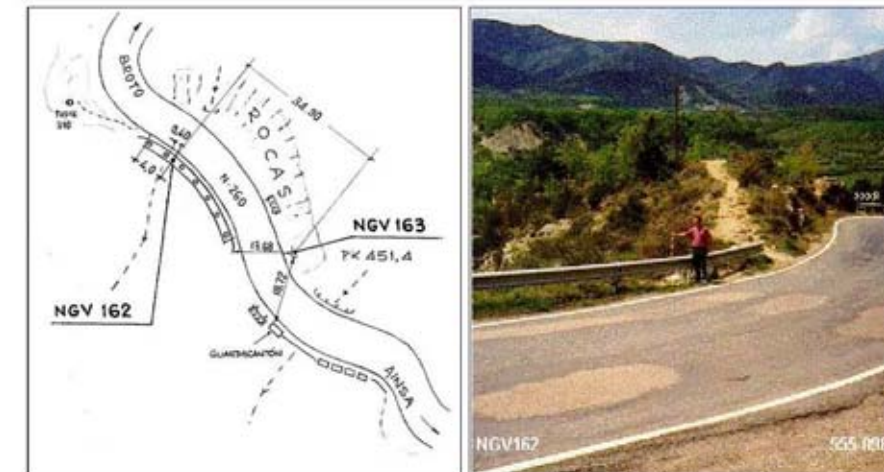
07-jun-05

Datos de la Señal			
Número:	555098	Nombre:	NGV162
Anterior:	555097	Posterior:	555099
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navari
Señal:	Principal	Agrupada con:	555099 - NGV163.
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 701,65823 m.
Latitud WGS84: 42° 28' 01"	Geopotencial: 687,75088 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980148,15 mgals. <i>Observada</i>
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
 Clavo metálico con la inscripción NG V 162 incrustado aproximadamente en el Km. 451,435 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en la coronación del muro de una alcantarilla, según croquis.

**Observaciones**





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**Reseña de Señal de Nivelación**

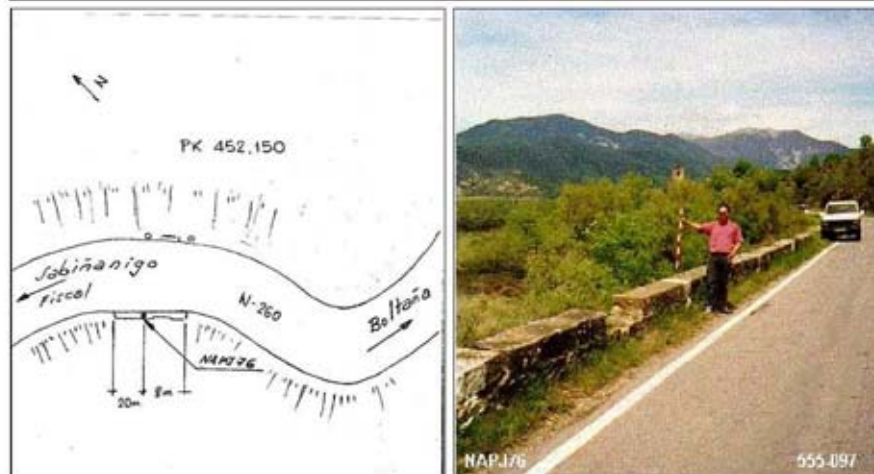
07-jun-05

Datos de la Señal			
Número:	555097	Nombre:	NAP J 76
Anterior:	555096	Posterior:	555098
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 01-nov-72	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	670,37291 m.
Latitud WGS84:	42° 28' 17"	Geopotencial:	864,92780 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980151,59 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico con la inscripción NAP J 76 incrustado aproximadamente en el Km. 452,150 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, sobre el perfil de un muro de contención, a 8 m. del final de éste, según croquis.

**Observaciones**  
 Es la antigua señal NAP J 76, folio 46- de la línea nº 122, Sabiñánigo a Benabarre, de 1972.



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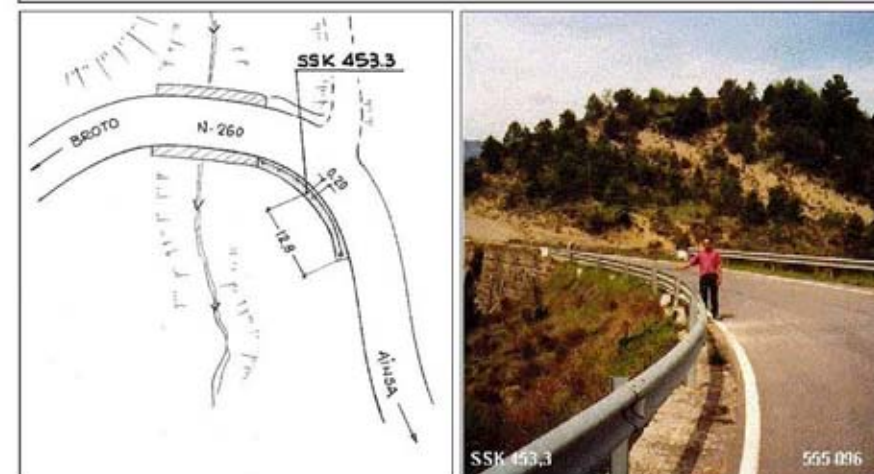
07-jun-05

Datos de la Señal			
Número:	555096	Nombre:	SSK 453,3
Anterior:	555095	Posterior:	555097
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	672,67422 m.
Latitud WGS84:	42° 28' 32"	Geopotencial:	859,34410 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980154,86 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico semiesférico incrustado aproximadamente en el Km. 453,3 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en la coronación de un muro de contención de hormigón, por detrás de la blonda, a 0.10 m. de la arista exterior y a 12.80 m. del extremo E. del muro.

**Observaciones**







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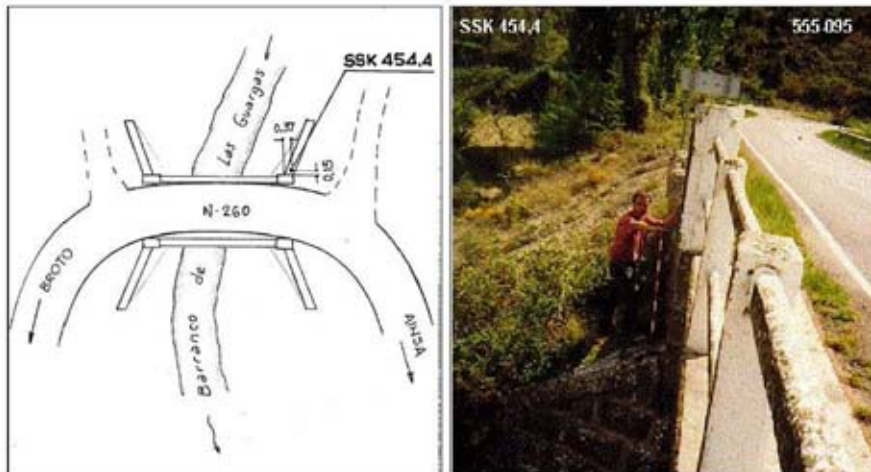
07-jun-05

Datos de la Señal			
Número:	555095	Nombre:	SSK 454,4
Anterior:	555094	Posterior:	555096
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	604,77293 m.
Latitud WGS84:	42° 28' 45"	Geopotencial:	671,20150 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980152,21 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico semiestérico incrustado aproximadamente en el Km. 454,4 en la margen N. de la Carretera N-260 de Biescas a Ainsa, en un puente sobre el barranco de Las Guarguas, en el arranque de la alota N.E.; a 0.15 m. del muro del puente; 1.5 m. por debajo de la rasante de la carretera, según croquis.

**Observaciones**



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**Reseña de Señal de Nivelación**

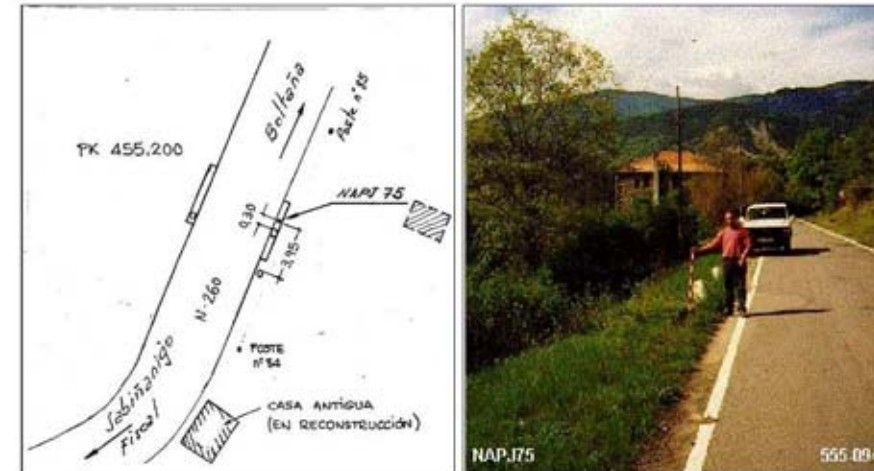
07-jun-05

Datos de la Señal			
Número:	555094	Nombre:	NAP J75
Anterior:	555093	Posterior:	555095
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	555093 - NAP J74
En posición Vertical			
Fechas	Señalización: 01-nov-72	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	609,03222 m.
Latitud WGS84:	42° 28' 31"	Geopotencial:	675,37597 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980151,32 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico con la inscripción NAP J 75 incrustado aproximadamente en el Km. 455,2 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, en el centro de la imposta de una alcantarilla, según croquis.

**Observaciones**  
 Es la antigua señal NAP J 75, folio 47- de la línea nº 122, Sabiñánigo a Benabarre, de 1972.





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**Reseña de Señal de Nivelación**

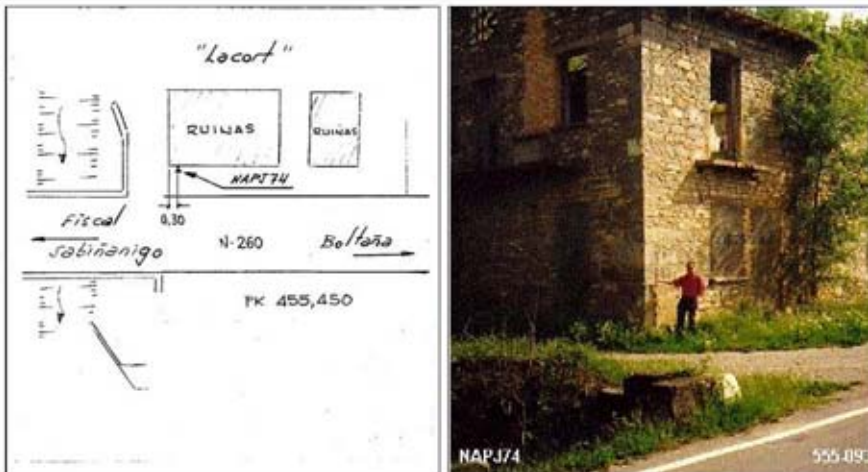
07-jun-05

Datos de la Señal			
Número:	555093	Nombre:	NAPJ74
Anterior:	555092	Posterior:	555094
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	555094 - NAPJ75.
En posición Horizontal			
Fechas	Señalización: 01-nov-72	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 600,20980 m.
Latitud WGS84:	Geopotencial: 674,57008 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980151,57 mgals. <i>Calculada</i>
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
 Clavo metálico con la inscripción NAP J 74 incrustado aproximadamente en el Km. 455,450 en la margen izquierda de la Carretera N-260 de Biescas a Ainsa, a 0,30 m. de la esquina S.O. de una casa abandonada en Lacort, 0,26 m. sobre el suelo, según croquis.

**Observaciones**  
 Es la antigua señal NAP J 74, -folio 46- de la línea nº 122, de Sabiñánigo a Benabarre, de 1972.



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**Reseña de Señal de Nivelación**

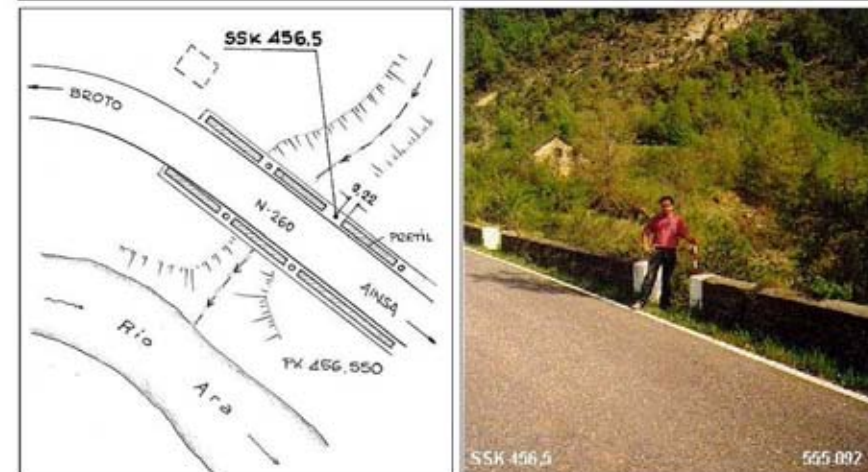
07-jun-05

Datos de la Señal			
Número:	555092	Nombre:	SSK 456,5
Anterior:	555091	Posterior:	555093
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 14-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 691,67571 m.
Latitud WGS84: 42° 28' 30"	Geopotencial: 677,96610 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980148,81 mgals. <i>Observada</i>
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
 Clavo metálico semiesférico incrustado aproximadamente en el Km. 456,550 en la margen N. de la Carretera N-260 de Biescas a Ainsa, en la coronación de la imposta de un puente, a 0,15 m. de la arista exterior, según croquis.

**Observaciones**







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**Reseña de Señal de Nivelación**

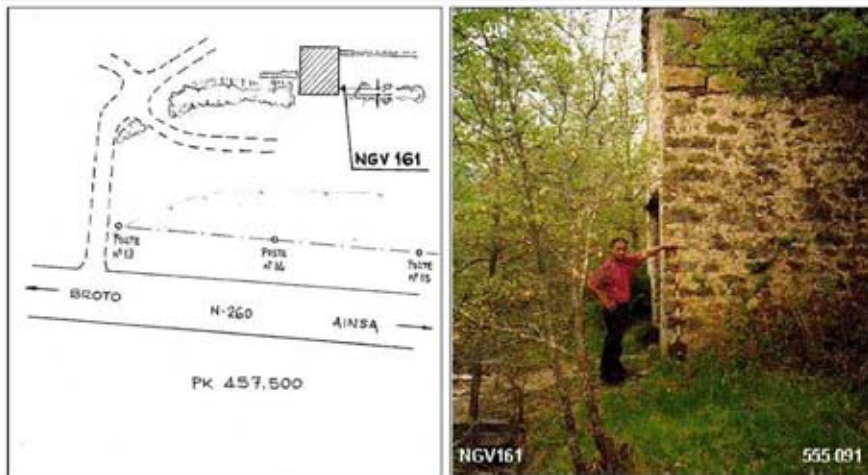
07-jun-05

Datos de la Señal			
Número:	555091	Nombre:	NGV161
Anterior:	555090	Posterior:	555092
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	
En posición Horizontal			
Fechas	Señalización: 14-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	708,12170 m.
Latitud WGS84:		Geopotencial:	894,08399 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980146,10 mgals. Calculada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico con la inscripción NG V 161 incrustado aproximadamente en el Km. 457,5 en la margen N. de la Carretera N-260 de Biescas a Ainsa, en la fachada E. de una casa de labor, a unos 70 m. de la carretera; a 0.15 m. de la esquina S.E. y 0.15 m. de altura sobre el suelo, según croquis.

**Observaciones**



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**Reseña de Señal de Nivelación**

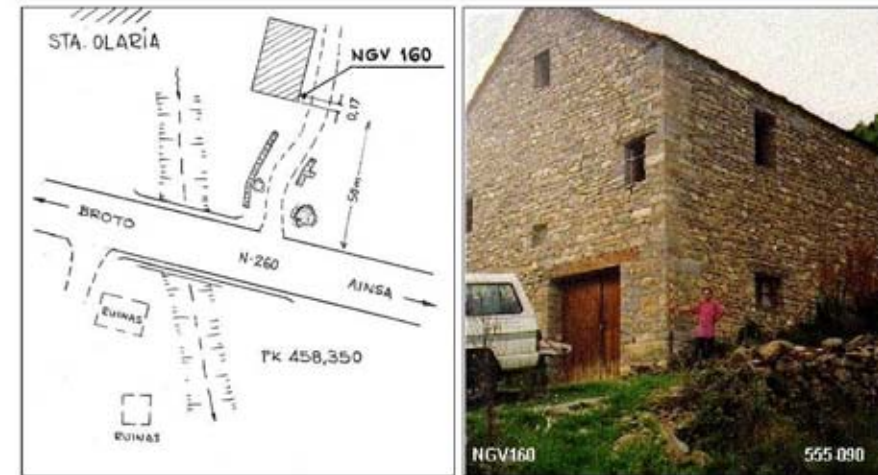
07-jun-05

Datos de la Señal			
Número:	555090	Nombre:	NGV160
Anterior:	555089	Posterior:	555091
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	
En posición Horizontal			
Fechas	Señalización: 14-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	727,76681 m.
Latitud WGS84:	42° 28' 41"	Geopotencial:	713,33716 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980141,85 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico con la inscripción NG V 160 incrustado aproximadamente en el Km. 458,350 en la margen izquierda de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en la fachada E. de una casa de piedra propiedad de Eléctricas Reunidas de Zaragoza del pueblo de Santa Olaría, en la fachada E. de la casa; a 0.17 m. de la esquina S.E. y 0.70 m. sobre el suelo, según croquis.

**Observaciones**





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**Reseña de Señal de Nivelación**

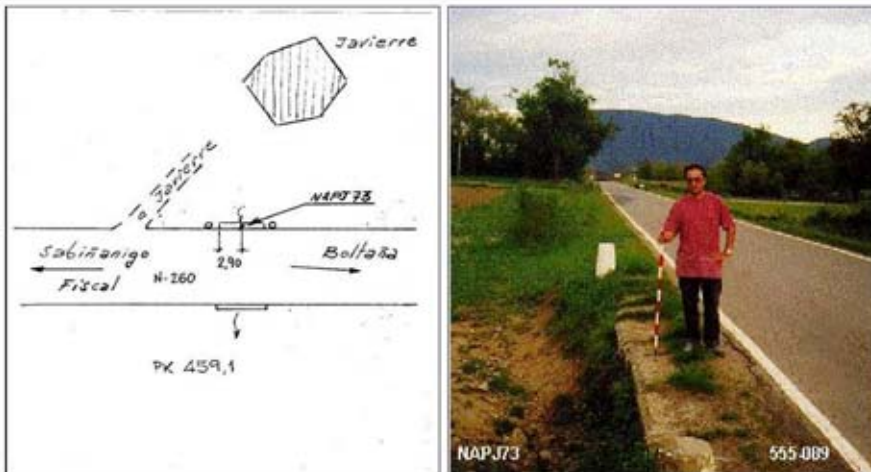
07-jun-05

Datos de la Señal			
Número:	555088	Nombre:	NAPJ73
Anterior:	555088	Posterior:	555090
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 01-nov-72	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 729,28164 m.
Latitud WGS84:	Geopotencial: 714,82159 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980141,27 mgals. <i>Calculada</i>
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
Clavo metálico con la inscripción NAP J73 incrustado aproximadamente en el Km. 459,1 de la Carretera N-260 en el centro de la imposta de la alcantarilla en su boca N., a 2,90 m. del extremo O. y a unos 5 m. del desvío a Javierre.

**Observaciones**  
Es la antigua señal NAP J 73, folio 45- de la línea nº 122, Sabiñánigo a Benabarra, de 1972. La alcantarilla tiene aspecto de estar un poco hundida.



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**Reseña de Señal de Nivelación**

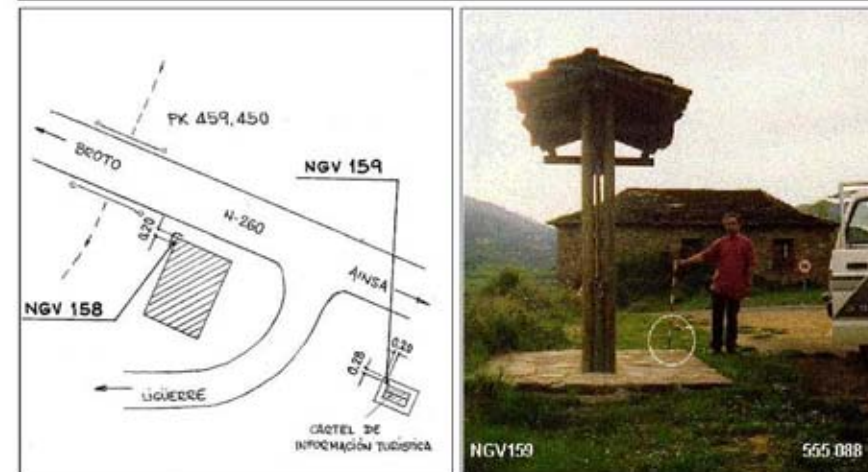
07-jun-05

Datos de la Señal			
Número:	555088	Nombre:	NGV159
Anterior:	555087	Posterior:	555089
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	555087 - NGV158.
En posición Vertical			
Fechas	Señalización: 14-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 732,19711 m.
Latitud WGS84: 42° 28' 47"	Geopotencial: 717,87868 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980140,37 mgals. <i>Observada</i>
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
Clavo metálico con la inscripción NG V 159 incrustado aproximadamente en el Km.459,4 en la margen S. de la Carretera N-260 de Biescas a Ainsa, sobre una base de piedras sujetas con cemento, de un cartel de información de los senderos de la comarca del Sobrarbe, de la Diputación prov. de Huesca, según croquis.

**Observaciones**







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**Reseña de Señal de Nivelación**

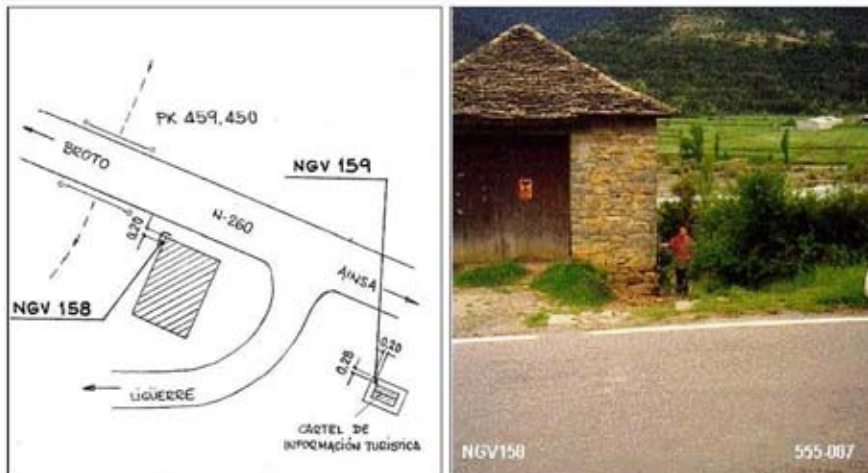
07-jun-05

Datos de la Señal			
Número:	555087	Nombre:	NGV158
Anterior:	555086	Posterior:	555088
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarra
Señal:	Principal	Agrupada con:	555088 - NGV159.
En posición Vertical			
Fechas	Señalización:	14-may-99	Nivelación:
			Cálculo:
			01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	732,40289 m.
Latitud WGS84:		Geopotencial:	717,88034 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980140,31 mgals. Calculada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico con la inscripción NG V 158 incrustado aproximadamente en el Km. 459,450 en la margen S. de la Carretera N-260 de Biescas a Ainsa, sobre una piedra en la base de una casa sobre la que se asienta ésta; en la esquina N.O.; a 0,20 m. de la esquina y 0,30 m. por encima del suelo, según croquis.

**Observaciones**



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**Reseña de Señal de Nivelación**

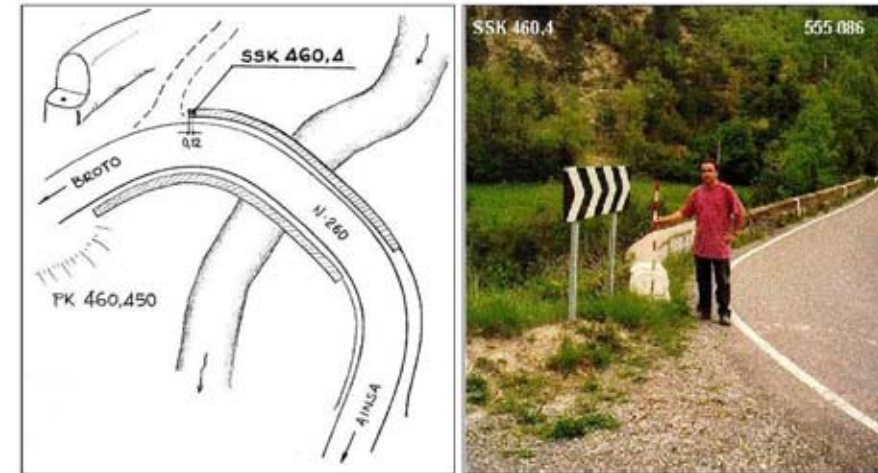
07-jun-05

Datos de la Señal			
Número:	555086	Nombre:	SSK 460,4
Anterior:	555085	Posterior:	555087
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarra
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización:	14-may-99	Nivelación:
			Cálculo:
			01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	748,67709 m.
Latitud WGS84:	42° 29' 11"	Geopotencial:	733,82868 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980135,40 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico semiesférico incrustado aproximadamente en el Km.460,450 en la margen izquierda de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, sobre un pequeño pretil, a 0,12 m. del extremo O. y 0,25 m. de altura sobre el suelo, según croquis.

**Observaciones**





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**Reseña de Señal de Nivelación**

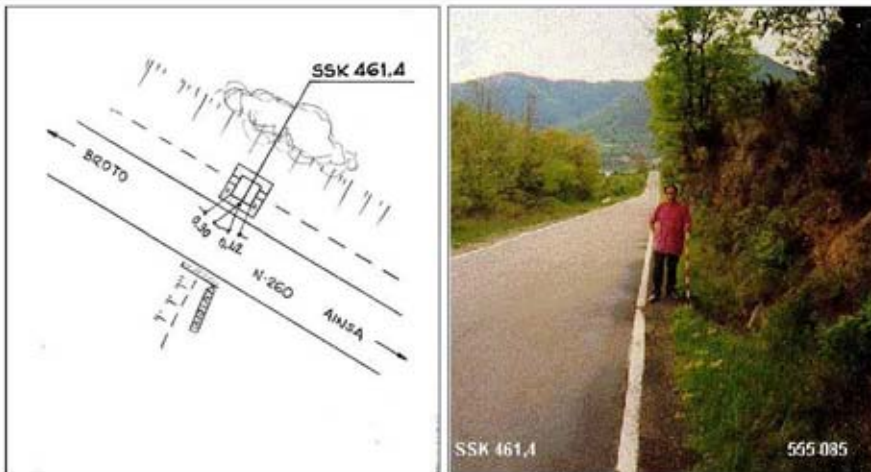
07-jun-05

Datos de la Señal			
Número:	555085	Nombre:	SSK 461,4
Anterior:	555084	Posterior:	555086
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización:	14-may-99	Nivelación:
			Cálculo:
			01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	750,01879 m.
Latitud WGS84:	42° 29' 21"	Geopotencial:	742,98367 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980133,10 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico semiestérico incrustado aproximadamente en el Km. 461,4 en la margen N. de la Carretera N-260 de Biescas a Ainsa en el centro de la cara superior de una arqueta-alcantarilla de piedra, según croquis.

**Observaciones**



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**Reseña de Señal de Nivelación**

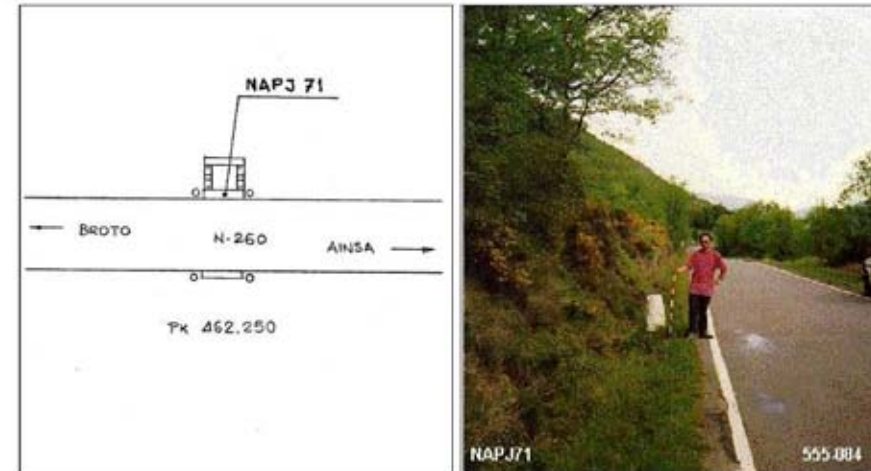
07-jun-05

Datos de la Señal			
Número:	555084	Nombre:	NAPJ71
Anterior:	555083	Posterior:	555085
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	555083 - NAPJ70.
En posición Vertical			
Fechas	Señalización:	01-nov-72	Nivelación:
			Cálculo:
			01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	766,72822 m.
Latitud WGS84:	42° 29' 36"	Geopotencial:	750,53933 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980131,66 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico con la inscripción NAP J 71 incrustado aproximadamente en el Km. 462,250 en la margen izquierda de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en el centro de la imposta de una alcantarilla, según croquis.

**Observaciones**  
 Es la antigua señal NAP J 71, folio 43- de la línea nº 122, Sabiñánigo a Benabarre, de 1972.





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**Reseña de Señal de Nivelación**

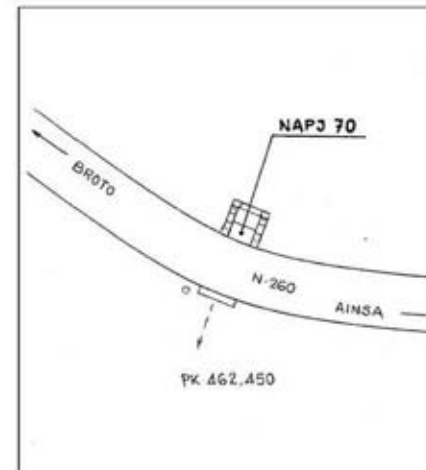
07-jun-03

Datos de la Señal			
Número:	555083	Nombre:	NAPJ70
Anterior:	555082	Posterior:	555084
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	555084 - NAPJ71.
En posición Vertical			
Fechas	Señalización:	01-nov-72	Nivelación:
			Cálculo:
			01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 767,67057 m.
Latitud WGS84:	Geopotencial: 752,44276 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980131,06 mgals. Calculada
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
 Clavo metálico con la inscripción NAP J 70 incrustado aproximadamente en el Km. 462,450 en la margen izquierda de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en el centro de la imposta de una alcantarilla, según croquis.

**Observaciones**  
 Es la antigua señal NAPJ 70, folio 42- de la línea nº 122, Sabiñánigo a Benabarre, de 1972.





## 4.2. RESEÑAS DE CLAVOS NAP UTILIZADOS



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### Reseña de Señal de Nivelación

07-jun-05

Datos de la Señal			
Número:	555101	Nombre:	SSK 449,6
Anterior:	555100	Posterior:	555102
Línea o Rama:	555	Nombre:	Sabitánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	640,82055 m.
Latitud WGS84:	42° 28' 04"	Geopotencial:	628,11994 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980153,53 mgals. <i>Observada</i>
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico semiesférico incrustado aproximadamente en el Km. 449,6 de la margen S. de la Carretera N-260 de Biescas a Aínsa, en la acera de la boca de entrada al túnel de la carretera antigua (en la margen S.), según croquis.

**Observaciones**

**NO EXISTE  
 CROQUIS**

**NO EXISTE  
 FOTOGRAFÍA**



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### Reseña de Señal de Nivelación

07-jun-05

Datos de la Señal			
Número:	555100	Nombre:	SSK 450,6
Anterior:	555099	Posterior:	555101
Línea o Rama:	555	Nombre:	Sabitánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	685,15505 m.
Latitud WGS84:	42° 28' 04"	Geopotencial:	671,57278 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980147,30 mgals. <i>Observada</i>
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
 Clavo metálico semiesférico incrustado aproximadamente en el Km. 450,6 de la margen S. de la Carretera N-260 de Biescas a Aínsa, sobre una roca nativa, a 1,70 m. del borde de la calzada y 2,10 m. al O. del poste de tfo. nº 91, según croquis.

**Observaciones**

**NO EXISTE  
 CROQUIS**

**NO EXISTE  
 FOTOGRAFÍA**





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Reseña de Señal de Nivelación

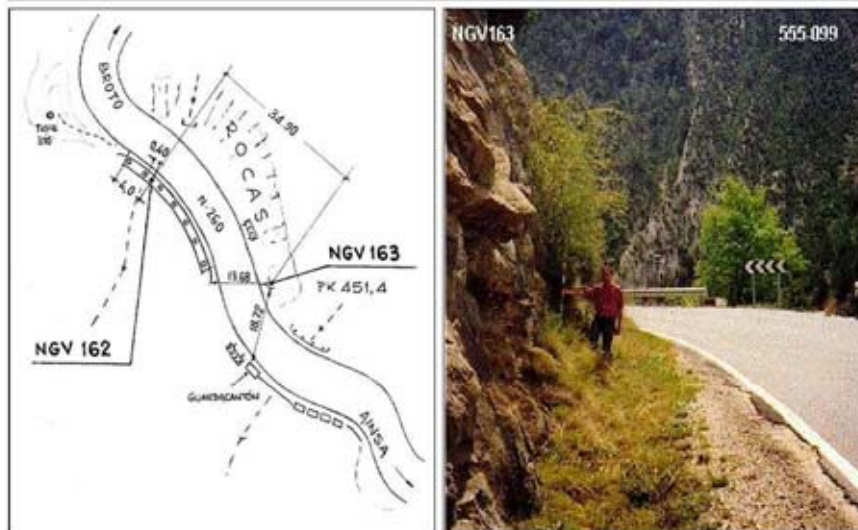
07-jun-05

Datos de la Señal			
Número:	555099	Nombre:	NGV163
Anterior:	555098	Posterior:	555100
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navari
Señal:	Principal	Agrupada con:	555098 - NGV162.
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 703,83060 m.
Latitud WGS84:	Geopotencial: 689,87880 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980147,48 mgals. Calculada
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
 Clavo metálico con la inscripción NG V 163 incrustado aproximadamente en el Km. 451,4 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, sobre una roca nativa, a 2.50 m. del borde de calzada, unos 0.50 m. por encima del suelo, según croquis.

**Observaciones**



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Reseña de Señal de Nivelación

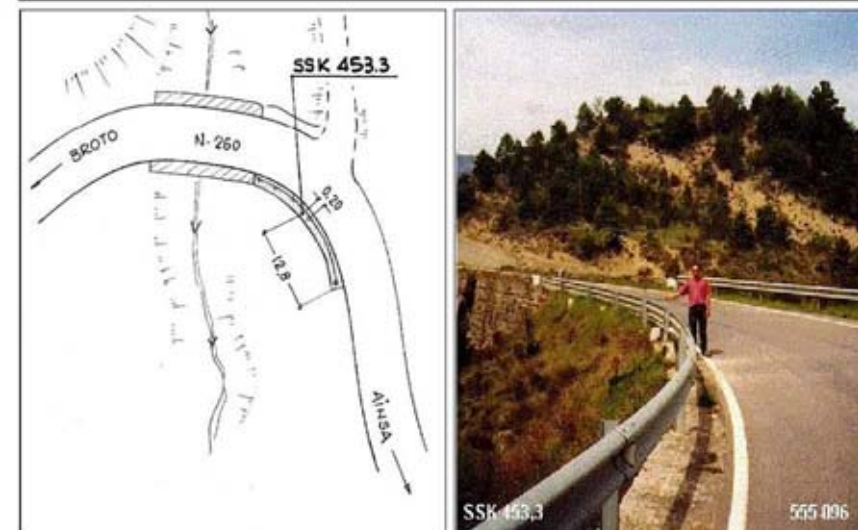
07-jun-05

Datos de la Señal			
Número:	555096	Nombre:	SSK 453,3
Anterior:	555095	Posterior:	555097
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navari
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos	
Longitud WGS84:	Altura ortométrica: 672,67422 m.
Latitud WGS84: 42° 28' 32"	Geopotencial: 659,34410 u.g.p.
Hoja MTN50: 211	Gravedad en superficie: 980154,86 mgals. Observada
Provincia: Huesca	Municipio: Fiscal

**Reseña**  
 Clavo metálico semiesférico incrustado aproximadamente en el Km. 453,3 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en la coronación de un muro de contención de hormigón, por detrás de la blanda, a 0.10 m. de la arista exterior y a 12.80 m. del extremo E. del muro.

**Observaciones**





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**Reseña de Señal de Nivelación**

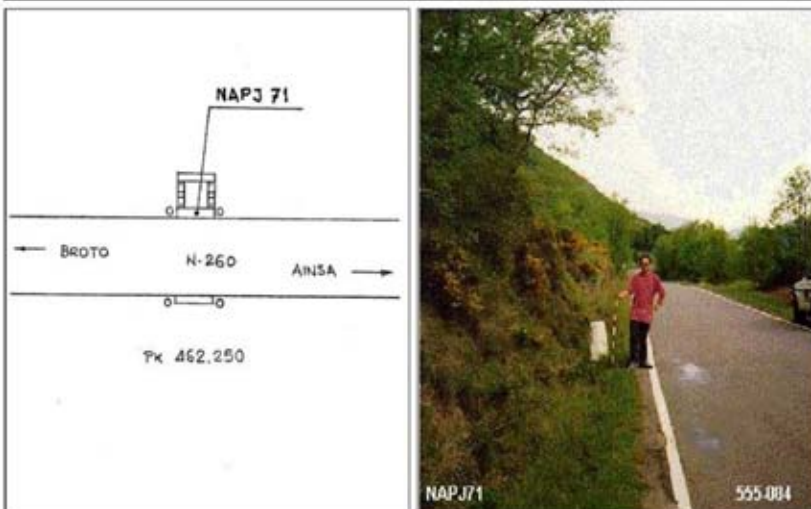
07-Jun-05

Datos de la Señal			
Número:	555084	Nombre:	NAPJ71
Anterior:	555083	Posterior:	555085
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navari
Señal:	Principal	Agrupada con:	555083 - NAPJ70.
En posición Vertical			
Fecha:	Señalización: 01-nov-72	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	765,72822 m.
Latitud WGS84:	42° 28' 36"	Geopotencial:	750,53833 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980131,66 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
Clavo metálico con la inscripción NAP J 71 incrustado aproximadamente en el Km. 462,250 en la margen izquierda de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en el centro de la imposta de una alcantarilla, según croquis.

**Observaciones**  
Es la antigua señal NAP J 71, -folio 43- de la línea nº 122, Sabiñánigo a Benabarre, de 1972.



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**Reseña de Señal de Nivelación**

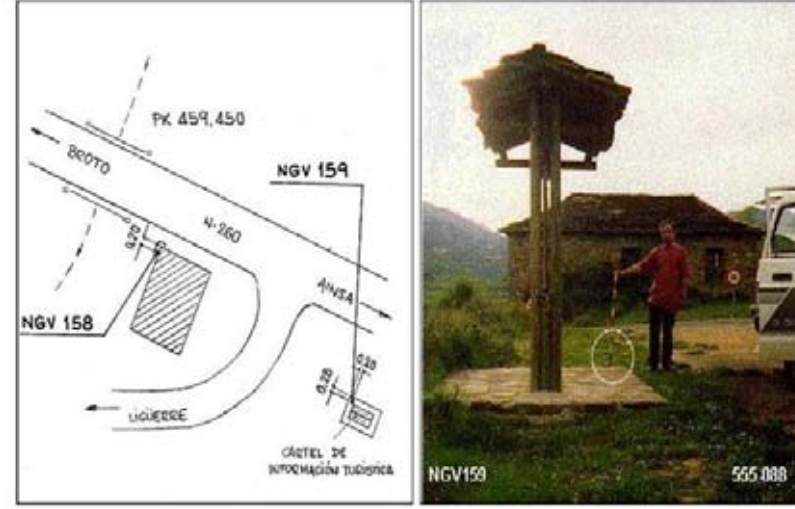
07-Jun-05

Datos de la Señal			
Número:	555088	Nombre:	NGV159
Anterior:	555087	Posterior:	555089
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navari
Señal:	Principal	Agrupada con:	555087 - NGV158.
En posición Vertical			
Fecha:	Señalización: 14-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	732,19711 m.
Latitud WGS84:	42° 28' 47"	Geopotencial:	717,67868 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980140,37 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
Clavo metálico con la inscripción NG V 159 incrustado aproximadamente en el Km. 459,4 en la margen S. de la Carretera N-260 de Biescas a Ainsa, sobre una base de piedras sujetas con cemento, de un cartel de información de los senderos de la comarca del Sobrarbe, de la Diputación prov. de Huesca, según croquis.

**Observaciones**



## 4.3. LIBRETA DE CAMPO Y CÁLCULO

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
<b>SSK 449,6</b>	1.452			<b>640.823</b>		<b>640.823</b>
	1.188	1.510	-0.058	640.765	-0.058125	640.765
	1.171	2.074	-0.886	639.879	-0.886125	639.879
	1.466	1.482	-0.311	639.568	-0.311125	639.568
<b>V.8000</b>	1.448	1.446	0.020	<b>639.588</b>	0.019875	<b>639.588</b>
	1.474	1.459	-0.011	639.577	-0.011125	639.576
	2.083	1.179	0.295	639.872	0.294875	639.871
	1.528	1.193	0.890	640.762	0.889875	640.761
<b>SSK 449,6</b>		1.466	0.062	<b>640.824</b>	0.061875	<b>640.823</b>

Longitud	163	m
Error de cierre	0.001	m
Tolerancia	0.004	m

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
<b>SSK 450,6</b>	0.716			<b>685.155</b>		<b>685.155</b>
	0.370	1.864	-1.148	684.007	-1.148000	684.007
	0.159	2.891	-2.521	681.486	-2.521000	681.486
	0.342	3.570	-3.411	678.075	-3.411000	678.075
	0.155	3.767	-3.425	674.650	-3.425000	674.650
	0.074	3.550	-3.395	671.255	-3.395000	671.255
	0.197	2.205	-2.131	669.124	-2.131000	669.124
	0.167	3.368	-3.171	665.953	-3.171000	665.953
	0.177	3.716	-3.549	662.404	-3.549000	662.404
	3.752	0.570	-0.393	662.011	-0.393000	662.011
	3.002	0.131	3.621	665.632	3.621000	665.632
	3.358	0.395	2.607	668.239	2.607000	668.239
	3.497	0.224	3.134	671.373	3.134000	671.373
	3.785	0.825	2.672	674.045	2.672000	674.045
	3.718	0.243	3.542	677.587	3.542000	677.587
	3.945	0.236	3.482	681.069	3.482000	681.069
	3.905	0.129	3.816	684.885	3.816000	684.885
	3.950	0.253	3.652	688.537	3.652000	688.537
	3.821	0.095	3.855	692.392	3.855000	692.392

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
	2.939	0.023	3.798	696.190	3.798000	696.190
	3.739	0.439	2.500	698.690	2.500000	698.690
	3.619	0.366	3.373	702.063	3.373000	702.063
	3.320	0.162	3.457	705.520	3.457000	705.520
<b>V.8001</b>	0.226	0.268	3.052	<b>708.572</b>	3.052000	<b>708.572</b>
	0.126	3.242	-3.016	705.556	-3.016000	705.556
	0.363	3.615	-3.489	702.067	-3.489000	702.067
	0.445	3.745	-3.382	698.685	-3.382000	698.685
	0.055	2.972	-2.527	696.158	-2.527000	696.158
	0.103	3.829	-3.774	692.384	-3.774000	692.384
	0.263	3.961	-3.858	688.526	-3.858000	688.526
	0.144	3.920	-3.657	684.869	-3.657000	684.869
	0.227	3.936	-3.792	681.077	-3.792000	681.077
	0.246	3.720	-3.493	677.584	-3.493000	677.584
	0.824	3.784	-3.538	674.046	-3.538000	674.046
	0.244	3.515	-2.691	671.355	-2.691000	671.355
	0.402	3.365	-3.121	668.234	-3.121000	668.234
	0.085	2.956	-2.554	665.680	-2.554000	665.680
	0.567	3.750	-3.665	662.015	-3.665000	662.015
	3.718	0.179	0.388	662.403	0.388000	662.403
	3.361	0.161	3.557	665.960	3.557000	665.960
	2.204	0.198	3.163	669.123	3.163000	669.123
	3.566	0.090	2.114	671.237	2.114000	671.237
	3.808	0.196	3.370	674.607	3.370000	674.607
	3.594	0.363	3.445	678.052	3.445000	678.052
	2.883	0.151	3.443	681.495	3.443000	681.495
	1.845	0.375	2.508	684.003	2.508000	684.003
<b>SSK 450,6</b>		0.693	1.152	<b>685.155</b>	1.152000	<b>685.155</b>

Longitud	750	m
Error de cierre	0.000	m
Tolerancia	0.009	m

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
<b>NGV 163</b>	0.856			<b>703.831</b>		<b>703.831</b>
	1.203	2.468	-1.612	702.219	-1.612167	702.219
	1.963	0.538	0.665	702.884	0.664833	702.884
<b>V.8002</b>	1.397	1.363	0.600	<b>703.484</b>	0.599833	<b>703.484</b>
	0.518	1.976	-0.579	702.905	-0.579167	702.904
	2.453	1.186	-0.668	702.237	-0.668167	702.236
<b>NGV 163</b>		0.858	1.595	<b>703.832</b>	1.594833	<b>703.831</b>

Longitud	72	m
Error de cierre	0.001	m
Tolerancia	0.003	m

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
<b>SSK 453,3</b>	2.019			<b>672.674</b>		<b>672.674</b>
	2.010	1.203	0.816	673.490	0.816038	673.490
	1.890	1.505	0.505	673.995	0.505038	673.995
	3.705	0.724	1.166	675.161	1.166038	675.161
	4.025	0.529	3.176	678.337	3.176038	678.337
	3.047	0.169	3.856	682.193	3.856038	682.193
	2.841	0.038	3.009	685.202	3.009038	685.202
	3.954	0.131	2.710	687.912	2.710038	687.912
	4.026	0.296	3.658	691.570	3.658038	691.570
	3.372	0.273	3.753	695.323	3.753038	695.323
	3.721	0.060	3.312	698.635	3.312038	698.635
	2.494	0.451	3.270	701.905	3.270038	701.905
	2.109	1.257	1.237	703.142	1.237038	703.142
<b>V.8003</b>	2.522	2.528	-0.419	<b>702.723</b>	-0.418962	<b>702.724</b>
	1.261	2.108	0.414	703.137	0.414038	703.138
	0.438	2.480	-1.219	701.918	-1.218962	701.919
	0.059	3.720	-3.282	698.636	-3.281962	698.637
	0.240	3.338	-3.279	695.357	-3.278962	695.358
	0.272	4.003	-3.763	691.594	-3.762962	691.595
	0.108	3.931	-3.659	687.935	-3.658962	687.936
	0.069	2.872	-2.764	685.171	-2.763962	685.172
	0.161	3.040	-2.971	682.200	-2.970962	682.201
	0.518	4.015	-3.854	678.346	-3.853962	678.347
	0.737	3.718	-3.200	675.146	-3.199962	675.147
	1.484	1.869	-1.132	674.014	-1.131962	674.015

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
	1.215	2.025	-0.541	673.473	-0.540962	673.474
<b>SSK 453,3</b>		2.015	-0.800	<b>672.673</b>	-0.799962	<b>672.674</b>

Longitud	575	m
Error de cierre	-0.001	m
Tolerancia	0.008	m

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
<b>NAPJ71</b>	1.192			<b>765.728</b>		<b>765.728</b>
	1.273	1.219	-0.027	765.701	-0.027000	765.701
	0.452	2.481	-1.208	764.493	-1.208000	764.493
	1.348	2.271	-1.819	762.674	-1.819000	762.674
	1.992	1.364	-0.016	762.658	-0.016000	762.658
	2.406	1.621	0.371	763.029	0.371000	763.029
	1.246	1.134	1.272	764.301	1.272000	764.301
<b>V.8007</b>	1.447	1.455	-0.209	<b>764.092</b>	-0.209000	<b>764.092</b>
	1.168	1.271	0.176	764.268	0.176000	764.268
	1.632	2.418	-1.250	763.018	-1.250000	763.018
	1.375	2.002	-0.370	762.648	-0.370000	762.648
	2.268	1.344	0.031	762.679	0.031000	762.679
	2.479	0.453	1.815	764.494	1.815000	764.494
	1.209	1.261	1.218	765.712	1.218000	765.712
<b>NAPJ71</b>		1.193	0.016	<b>765.728</b>	0.016000	<b>765.728</b>

Longitud	322	m
Error de cierre	0.000	m
Tolerancia	0.006	m



PUNTO	Espalda	Frente	Desnivel	Cota Provisiona l	Desnivel compensado	Cota Compensada
<b>NGV 159</b>	1.482			<b>732.197</b>		<b>732.197</b>
	0.056	3.499	-2.017	730.180	-2.016963	730.180
	0.614	2.302	-2.246	727.934	-2.245963	727.934
	0.030	3.241	-2.627	725.307	-2.626963	725.307
	0.168	3.453	-3.423	721.884	-3.422963	721.884
	0.265	3.500	-3.332	718.552	-3.331963	718.552
	2.651	0.297	-0.032	718.520	-0.031963	718.520
	0.448	3.932	-1.281	717.239	-1.280963	717.239
	1.133	2.407	-1.959	715.280	-1.958963	715.280
	0.602	2.037	-0.904	714.376	-0.903963	714.376
	1.163	2.230	-1.628	712.748	-1.627963	712.748
	1.491	1.999	-0.836	711.912	-0.835963	711.912
	1.134	1.736	-0.245	711.667	-0.244963	711.667
	1.517	2.121	-0.987	710.680	-0.986963	710.680
	3.454	0.967	0.550	711.230	0.550037	711.231
	3.843	0.128	3.326	714.556	3.326037	714.557
	2.424	2.626	1.217	715.773	1.217037	715.774
	2.547	0.988	1.436	717.209	1.436037	717.210
	1.231	1.506	1.041	718.250	1.041037	718.251
	1.374	2.724	-1.493	716.757	-1.492963	716.758
	2.800	1.025	0.349	717.106	0.349037	717.107
	4.177	0.301	2.499	719.605	2.499037	719.606
	2.942	0.516	3.661	723.266	3.661037	723.267
	0.021	2.398	0.544	723.810	0.544037	723.811
	0.089	4.211	-4.190	719.620	-4.189963	719.621
	3.374	2.844	-2.755	716.865	-2.754963	716.866
	2.838	0.129	3.245	720.110	3.245037	720.111
<b>V.8005</b>	0.416	0.409	2.429	<b>722.539</b>	2.429037	<b>722.540</b>
	0.146	2.861	-2.445	720.094	-2.444963	720.095
	2.858	3.388	-3.242	716.852	-3.241963	716.853
	4.228	0.105	2.753	719.605	2.753037	719.606
	2.418	0.041	4.187	723.792	4.187037	723.793
	0.245	2.670	-0.252	723.540	-0.251963	723.541
	0.297	4.174	-3.929	719.611	-3.928963	719.612
	1.032	2.808	-2.511	717.100	-2.510963	717.101
	2.705	1.357	-0.325	716.775	-0.324963	716.776
	1.485	1.211	1.494	718.269	1.494037	718.270
	0.967	2.527	-1.042	717.227	-1.041963	717.228
	2.632	2.431	-1.464	715.763	-1.463963	715.764
	0.125	3.839	-1.207	714.556	-1.206963	714.557
	0.966	3.456	-3.331	711.225	-3.330963	711.226
	2.116	1.511	-0.545	710.680	-0.544963	710.682
	1.751	1.148	0.968	711.648	0.968037	711.650
	2.008	1.501	0.250	711.898	0.250037	711.900
	2.229	1.162	0.846	712.744	0.846037	712.746
	2.035	0.598	1.631	714.375	1.631037	714.377
	2.411	1.135	0.900	715.275	0.900037	715.277
	3.937	0.454	1.957	717.232	1.957037	717.234

PUNTO	Espalda	Frente	Desnivel	Cota Provisiona l	Desnivel compensado	Cota Compensada
	0.281	2.634	1.303	718.535	1.303037	718.537
	3.500	0.265	0.016	718.551	0.016037	718.553
	3.425	0.141	3.359	721.910	3.359037	721.912
	3.253	0.041	3.384	725.294	3.384037	725.296
	2.300	0.613	2.640	727.934	2.640037	727.936
	3.498	0.053	2.247	730.181	2.247037	730.183
<b>NGV 159</b>		1.484	2.014	<b>732.195</b>	2.014037	<b>732.197</b>

Longitud	1975	m
Error de cierre	-0.002	m
Tolerancia	0.014	m

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
<b>V.8005</b>	0.505			<b>722.539</b>		<b>722.540</b>
	0.046	3.024	-2.519	720.020	-2.519000	720.021
	0.089	4.032	-3.986	716.034	-3.986000	716.035
	0.237	3.998	-3.909	712.125	-3.909000	712.126
	0.087	3.603	-3.366	708.759	-3.366000	708.760
	0.072	3.880	-3.793	704.966	-3.793000	704.967
	0.948	3.600	-3.528	701.438	-3.528000	701.439
	1.292	2.196	-1.248	700.190	-1.248000	700.191
	1.014	2.711	-1.419	698.771	-1.419000	698.772
	1.762	2.485	-1.471	697.300	-1.471000	697.301
	1.014	2.799	-1.037	696.263	-1.037000	696.264
	1.769	2.041	-1.027	695.236	-1.027000	695.237
	1.025	2.341	-0.572	694.664	-0.572000	694.665
	0.975	1.787	-0.762	693.902	-0.762000	693.903
	0.673	1.866	-0.891	693.011	-0.891000	693.012
	1.100	1.759	-1.086	691.925	-1.086000	691.926
	3.574	1.064	0.036	691.961	0.036000	691.962
	3.905	0.034	3.540	695.501	3.540000	695.502
	2.779	0.653	3.252	698.753	3.252000	698.754
	2.625	0.281	2.498	701.251	2.498000	701.252
	0.068	1.385	1.240	702.491	1.240000	702.492
	0.695	0.638	-0.570	701.921	-0.570000	701.922
	1.552	2.284	-1.589	700.332	-1.589000	700.333
	3.488	1.097	0.455	700.787	0.455000	700.788
	0.104	1.888	1.600	702.387	1.600000	702.388
	0.460	4.137	-4.033	698.354	-4.033000	698.355
	4.067	0.121	0.339	698.693	0.339000	698.694
	3.767	0.218	3.849	702.542	3.849000	702.543
	3.849	0.245	3.522	706.064	3.522000	706.065
	3.587	0.255	3.594	709.658	3.594000	709.659

PUNTO	Espalda	Frente	Desnivel	Cota Provisional	Desnivel compensado	Cota Compensada
	3.960	0.120	3.467	713.125	3.467000	713.126
	3.931	0.217	3.743	716.868	3.743000	716.869
<b>V.8004</b>	0.438	0.442	3.489	<b>720.357</b>	3.489000	<b>720.358</b>
	0.234	3.944	-3.506	716.851	-3.506000	716.852
	0.106	3.946	-3.712	713.139	-3.712000	713.140
	0.247	3.580	-3.474	709.665	-3.474000	709.666
	0.234	3.838	-3.591	706.074	-3.591000	706.075
	0.188	3.736	-3.502	702.572	-3.502000	702.573
	0.112	4.059	-3.871	698.701	-3.871000	698.702
	4.138	0.460	-0.348	698.353	-0.348000	698.354
	1.881	0.097	4.041	702.394	4.041000	702.395
	1.097	3.487	-1.606	700.788	-1.606000	700.789
	2.283	1.552	-0.455	700.333	-0.455000	700.334
	0.648	0.705	1.578	701.911	1.578000	701.912
	1.407	0.091	0.557	702.468	0.557000	702.469
	0.273	2.617	-1.210	701.258	-1.210000	701.259
	0.654	2.781	-2.508	698.750	-2.508000	698.751
	0.018	3.889	-3.235	695.515	-3.235000	695.516
	1.056	3.566	-3.548	691.967	-3.548000	691.968
	1.746	1.086	-0.030	691.937	-0.030000	691.938
	1.860	0.667	1.079	693.016	1.079000	693.017
	1.783	0.972	0.888	693.904	0.888000	693.905
	2.328	1.014	0.769	694.673	0.769000	694.674
	2.029	1.755	0.573	695.246	0.573000	695.247
	2.794	1.008	1.021	696.267	1.021000	696.268
	2.482	1.760	1.034	697.301	1.034000	697.302
	2.714	1.016	1.466	698.767	1.466000	698.768
	2.196	1.292	1.422	700.189	1.422000	700.190
	3.610	0.957	1.239	701.428	1.239000	701.429
	3.878	0.071	3.539	704.967	3.539000	704.968
	3.614	0.098	3.780	708.747	3.780000	708.748
	4.003	0.243	3.371	712.118	3.371000	712.119
	4.026	0.082	3.921	716.039	3.921000	716.040
	3.020	0.039	3.987	720.026	3.987000	720.027
<b>V.8005</b>		0.507	2.513	<b>722.539</b>	2.513000	<b>722.540</b>

Longitud	2358	m
Error de cierre	0.000	m
Tolerancia	0.015	m

#### 4.4. RESUMEN DE LA NIVELACIÓN

TRAMO	VERTICE	COTA FINAL	DISTANCIA
SSK 449,6 - V.8000	V.8000	639.588	163
SSK 450,6 - V.8001	V.8001	708.572	750
NGV 163 -V.8002	V.8002	703.484	72
SSK 453,3 - V.8003	V.8003	702.724	575
NAPJ71 - V.8007	V.8007	764.092	322
NGV 159 - V.8005	V.8005	722.540	1975
V.8005 - V.8004	V.8004	720.358	2358

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## 5. RED BÁSICA

### 5.1. DATOS GPS

#### 5.1.1. Vectores observados

LISTADO DE LINEAS-BASE OBSERVADAS  
 N-260 FISCAL - BALUPOR (HUESCA)

-VECTOR-	- Δx-	- Δy -	- Δh -
9998	8006	193.367	419.018
177	210	11390.270	-929.991
9999	5098	631.909	1492.871
5094	5098	594.082	2549.027
178	5081	3861.093	3767.488
211	5094	-4202.837	5046.444
211	9999	-4240.664	6102.600
178	211	10150.722	6176.337
178	9998	5451.464	6290.154
178	8006	5644.831	6709.172
5081	5094	2086.792	7455.294
9998	5098	1090.503	7481.655
211	5098	-3608.755	7595.471
211	5081	-6289.629	-2408.850
9998	5081	-1590.371	-2522.666
9178	5098	8670.036	-2592.756
9178	9999	8038.127	-4085.627
9178	5094	8075.954	-5141.783
9999	5081	-2048.965	-8511.450
9178	8006	7772.900	-9655.393
5081	5098	2680.874	10004.321
9178	9998	7579.533	-10074.411
9178	211	12278.791	-10188.227
178	5094	5947.885	11222.782
178	9999	5910.058	12278.938
9178	5081	5989.162	-12597.077
178	5098	6541.967	13771.809
177	178	980.954	15192.769
178	210	10409.316	-16122.761
178	9178	-2128.069	16364.564
9178	212	14678.844	17862.098
177	5081	4842.047	18960.257
210	5081	-6548.223	19890.248
212	5098	-6008.808	-20454.854
177	211	11131.676	21369.106
177	9998	6432.418	21482.923
177	8006	6625.785	21901.941
212	9999	-6640.717	-21947.725
210	211	-258.594	22299.098
210	9998	-4957.852	22412.914
210	8006	-4764.485	22831.932
212	5094	-6602.890	-23003.881
177	5094	6928.839	26415.551
210	5094	-4461.431	27345.542
177	9999	6891.012	27471.707
212	8006	-6905.944	-27517.491

-VECTOR-	- Δx-	- Δy -	- Δh -
212	9998	-7099.311	-27936.509
211	212	2400.053	28050.325
210	9999	-4499.258	28401.698
177	5098	7522.921	28964.578
210	5098	-3867.349	29894.569
212	5081	-8689.682	-30459.175
177	9178	-1147.115	31557.334
9178	210	12537.385	-32487.325
178	212	12550.775	34226.662
9999	8006	-265.227	-5569.766
9999	8003	-0.490	-23.818
9998	8004	874.185	3924.276
9998	8005	708.308	1790.758
9998	8000	1122.681	9202.365
9998	8001	1022.423	8699.203
9998	8007	-661.243	-905.550
9998	211	4699.254	-113.816
9998	8002	1094.977	7451.010
9998	8008	-950.759	-3735.899
0211	8006	-4505.891	532.835
5081	8006	1783.723	2941.686
8003	5098	632.387	1516.692
8006	5098	897.141	7062.635
8003	5094	38.298	-1032.335
8006	5094	303.060	4513.610
9998	5094	496.442	4932.633
9999	5094	37.832	-1056.157
9999	8000	664.091	3213.580
9999	8001	563.833	2710.418
9999	8002	636.387	1462.225
8006	8003	264.759	5545.945
9998	8003	458.098	5964.959
8006	8004	680.822	3505.257
8006	8005	514.945	1371.739
8007	8006	854.606	1324.569
8008	8006	1144.122	4154.918
9999	9998	-458.591	-5988.785
9999	8003	-0.490	-23.818
8003	5081	-2048.497	-8487.629



**5.1.2. Compensación planimétrica en WGS-84**

66	8003	5098	1782.8747770	65.152420	.0153	DISTANCIA	GPS
67	8006	5098	111.9688870	.332226	3.0100	ACIMUT	GPS

PROGRAMA COMPRED : COMPENSACION DE REDES GEODESICAS POR VARIACION DE COORDENADAS SOBRE LA SUPERFICIE ELIPSOIDE WGS-84

D A T O S D E E N T R A D A

EXCENTRICIDAD = .006694380194

SEMIEJE MAYOR = 6378137.0 METROS

PARAMETROS DEL W-TEST DE BAARDA DE DETECCION DE ERRORES GROSEROS

NIVEL DE SIGNIFICACION DEL W-TEST : .001  
 POTENCIA DEL W-TEST : .800  
 NUMERO CRITICO DETECCION DE ERRORES GROSEROS : 3.290

T A B L A D E V E R T I C E S

DESIGNACION DEL VERTICE N O M B R E	NUMERO DE ORDEN	X	Y	ALTITUD	
211 25 GALARDON FIJO	211	739350.074	4701573.850	1833.42	PUNTO
	8006	739686.207	4707111.902	777.79	
	9998	739256.962	4707391.476	785.77	
	8007	738316.085	4708370.045	816.23	
	8008	735468.018	4708812.703	925.36	
	5094	744215.046	4706786.439	741.05	
	9999	745268.353	4706892.253	752.14	
	8003	745244.420	4706894.910	754.69	
	5098	746793.669	4706011.360	753.63	
	8000	748517.824	4705956.494	691.56	
	8001	748006.913	4706162.588	760.52	
	8002	746763.200	4706005.630	755.44	
	8004	743225.722	4706225.185	772.29	
	8005	741084.394	4706396.108	774.54	
	5081	736651.205	4709682.919	814.27	

NUMERO DE ORDEN	PUNTO DE ESTACION	PUNTO VISADO	OBSERVACION (VALOR MEDIDO)	RAIZ PESO A PRIORI	ERROR A PRIORI	CLASE DE OBSERVACION
68	8006	5098	7189.8041900	31.676230	.0316	DISTANCIA GPS
69	8003	5094	295.5568170	.332226	3.0100	ACIMUT GPS
70	8003	5094	1034.7232730	76.311580	.0131	DISTANCIA GPS
71	8006	5094	106.7561060	.332226	3.0100	ACIMUT GPS
72	8006	5094	4539.0626140	42.342040	.0236	DISTANCIA GPS
73	9998	5094	109.9158340	.332226	3.0100	ACIMUT GPS
74	9998	5094	4993.2742170	40.032310	.0250	DISTANCIA GPS
75	9999	5094	295.8657370	.332226	3.0100	ACIMUT GPS
76	9999	5094	1058.2544430	75.902690	.0132	DISTANCIA GPS
77	9999	8000	120.0896790	.332226	3.0100	ACIMUT GPS
78	9999	8000	3380.3407960	49.649910	.0201	DISTANCIA GPS
79	9999	8001	118.8168250	.332226	3.0100	ACIMUT GPS
80	9999	8001	2833.1128630	54.055990	.0185	DISTANCIA GPS
81	9999	8002	136.3209420	.332226	3.0100	ACIMUT GPS
82	9999	8002	1737.4107140	65.736570	.0152	DISTANCIA GPS
83	8006	8003	104.6733050	.332226	3.0100	ACIMUT GPS
84	8006	8003	5560.6483590	37.478530	.0267	DISTANCIA GPS
85	9998	8003	107.4529340	.332226	3.0100	ACIMUT GPS
86	9998	8003	6006.0712320	35.691070	.0280	DISTANCIA GPS
87	8006	8004	117.8159170	.332226	3.0100	ACIMUT GPS
88	8006	8004	3647.7376140	47.748170	.0209	DISTANCIA GPS
89	8006	8005	132.3111840	.332226	3.0100	ACIMUT GPS
90	8006	8005	1570.2722660	67.977190	.0147	DISTANCIA GPS
91	8007	8006	149.4664730	.332226	3.0100	ACIMUT GPS
92	8007	8006	1859.5848730	64.189990	.0156	DISTANCIA GPS
93	8008	8006	126.5510430	.332226	3.0100	ACIMUT GPS
94	8008	8006	4546.8292940	42.300310	.0236	DISTANCIA GPS
95	9999	9998	307.5147450	.332226	3.0100	ACIMUT GPS
96	9999	9998	6030.1415470	35.599320	.0281	DISTANCIA GPS
167	3251	9999	318.0151300	.332226	3.0100	ACIMUT GPS
168	3251	9999	3727.3738540	47.209630	.0212	DISTANCIA GPS
169	9999	8003	309.2944200	.332226	3.0100	ACIMUT GPS
170	9999	8003	24.0714090	99.283040	.0101	DISTANCIA GPS
171	8003	5081	322.2127350	.332226	3.0100	ACIMUT GPS
172	8003	5081	9031.3367220	26.958530	.0371	DISTANCIA GPS

EL ERROR A PRIORI DE OBSERVACIONES ANGULARES EN SEGUNDOS CENTESIMALES, DE DISTANCIA EN METROS

T A B L A D E O B S E R V A C I O N E S

NUMERO DE ORDEN	PUNTO DE ESTACION	PUNTO VISADO	OBSERVACION (VALOR MEDIDO)	RAIZ PESO A PRIORI	ERROR A PRIORI	CLASE DE OBSERVACION
39	9998	8006	138.9378520	.332226	3.0100	ACIMUT GPS
40	9998	8006	512.1065260	86.682760	.0115	DISTANCIA GPS
41	9999	8006	304.7435740	.332226	3.0100	ACIMUT GPS
42	9999	8006	5584.6594680	37.377620	.0268	DISTANCIA GPS
43	9999	8003	309.2944200	.332226	3.0100	ACIMUT GPS
44	9999	8003	24.0714090	99.283040	.0101	DISTANCIA GPS
45	9998	8004	120.3811450	.332226	3.0100	ACIMUT GPS
46	9998	8004	4135.2717400	44.631270	.0224	DISTANCIA GPS
47	9998	8005	133.9366790	.332226	3.0100	ACIMUT GPS
48	9998	8005	2080.2835020	61.573130	.0162	DISTANCIA GPS
49	9998	8000	111.9717830	.332226	3.0100	ACIMUT GPS
50	9998	8000	9368.2668760	26.243410	.0381	DISTANCIA GPS
51	9998	8001	111.0680610	.332226	3.0100	ACIMUT GPS
52	9998	8001	8832.9055280	27.398220	.0365	DISTANCIA GPS
53	9998	8007	353.4354960	.332226	3.0100	ACIMUT GPS
54	9998	8007	1357.1052190	71.066560	.0141	DISTANCIA GPS
55	9998	211	201.1654710	.332226	3.0100	ACIMUT GPS
56	9998	211	5816.5982110	36.430150	.0274	DISTANCIA GPS
57	9998	8002	113.8079020	.332226	3.0100	ACIMUT GPS
58	9998	8002	7630.6046810	30.402700	.0329	DISTANCIA GPS
59	9998	8008	325.0312090	.332226	3.0100	ACIMUT GPS
60	9998	8008	4045.5391610	45.174020	.0221	DISTANCIA GPS
61	211	8006	6.0425060	.332226	3.0100	ACIMUT GPS
62	211	8006	5546.5472040	37.538040	.0266	DISTANCIA GPS
63	5081	8006	146.9055740	.332226	3.0100	ACIMUT GPS
64	5081	8006	3976.4207100	45.601170	.0219	DISTANCIA GPS
65	8003	5098	135.2354100	.332226	3.0100	ACIMUT GPS

PARAMETROS DE LA RED

R E D D E T R I L A T E R A C I O N

NUMERO DE PUNTOS FIJOS	1
NUMERO DE PUNTOS APROXIMADOS	59
NUMERO TOTAL DE PUNTOS	60

NUMERO DE DIRECCIONES OBSERVADAS	0
NUMERO DE DISTANCIAS OBSERVADAS	0
NUMERO DE ACIMUTES GEODESICOS	0
NUMERO DE ACIMUTES ASTRONOMICOS	0
NUMERO TOTAL DE OBSERVACIONES	172

NUMERO DE DISTANCIAS GPS	86
NUMERO DE ACIMUTES GPS	86

NUMERO DE INCOGNITAS EN COORDENADAS	118
NUMERO DE INCOGNITAS DE ORIENTACION	0
NUMERO TOTAL DE INCOGNITAS	118
NUMERO PARAMETROS SISTEMATICOS	0

GRADOS DE LIBERTAD DEL AJUSTE	54
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ELEMENTOS DE LA MATRIZ NORMAL	6649
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T A B L A D E R E S I D U O S

NUMERO DE OBSERVACION	PUNTO DE ESTACION	PUNTO VISADO	RESIDUO	RAIZ PESO A PRIORI	RESIDUO PONDERADO	CLASE DE OBSERVACION
39	9998	8006	-.7373	.33	-.2450	ACIMUT
40	9998	8006	.0002	86.68	.0137	DISTANCIA
41	9999	8006	.7008	.33	.2328	ACIMUT
42	9999	8006	.0021	37.38	.0769	DISTANCIA
43	9999	8003	-.0815	.33	-.0271	ACIMUT
44	9999	8003	-.0021	99.28	-.2057	DISTANCIA
45	9998	8004	.3861	.33	.1283	ACIMUT
46	9998	8004	.0005	44.63	.0230	DISTANCIA
47	9998	8005	.8124	.33	.2699	ACIMUT
48	9998	8005	.0011	61.57	.0664	DISTANCIA
49	9998	8000	.6486	.33	.2155	ACIMUT
50	9998	8000	.0024	26.24	.0623	DISTANCIA
51	9998	8001	.7113	.33	.2363	ACIMUT
52	9998	8001	.0023	27.40	.0624	DISTANCIA
53	9998	8007	-.5856	.33	-.1945	ACIMUT
54	9998	8007	-.0015	71.07	-.1065	DISTANCIA
55	9998	211	-.0038	.33	-.0013	ACIMUT
56	9998	211	.0023	36.43	.0856	DISTANCIA
57	9998	8002	.8305	.33	.2759	ACIMUT
58	9998	8002	.0025	30.40	.0769	DISTANCIA
59	9998	8008	-.3287	.33	-.1092	ACIMUT
60	9998	8008	-.0006	45.17	-.0261	DISTANCIA
61	211	8006	.0224	.33	.0075	ACIMUT
62	211	8006	-.0022	37.54	-.0827	DISTANCIA
63	5081	8006	.3806	.33	.1265	ACIMUT
64	5081	8006	.0000	45.60	-.0001	DISTANCIA
65	8003	5098	.2439	.33	.0810	ACIMUT
66	8003	5098	-.0007	65.15	-.0437	DISTANCIA
67	8006	5098	-.8151	.33	-.2708	ACIMUT
68	8006	5098	.0061	31.68	.1921	DISTANCIA
69	8003	5094	-6.7151	.33	-2.2309	ACIMUT
70	8003	5094	.0043	76.31	.3282	DISTANCIA
71	8006	5094	.4355	.33	.1447	ACIMUT
72	8006	5094	.0034	42.34	.1455	DISTANCIA
73	9998	5094	-1.2237	.33	-.4065	ACIMUT
74	9998	5094	-.0030	40.03	-.1198	DISTANCIA
75	9999	5094	6.7166	.33	2.2314	ACIMUT
76	9999	5094	-.0033	75.90	-.2478	DISTANCIA
77	9999	8000	-.2222	.33	-.0738	ACIMUT
78	9999	8000	-.0009	49.65	-.0450	DISTANCIA
79	9999	8001	-.2182	.33	-.0725	ACIMUT
80	9999	8001	-.0008	54.06	-.0440	DISTANCIA
81	9999	8002	-.1575	.33	-.0523	ACIMUT
82	9999	8002	-.0011	65.74	-.0736	DISTANCIA
83	8006	8003	-1.6209	.33	-.5385	ACIMUT
84	8006	8003	.0056	37.48	.2092	DISTANCIA
85	9998	8003	.8345	.33	.2773	ACIMUT
86	9998	8003	.0121	35.69	.4319	DISTANCIA
87	8006	8004	-.3424	.33	-.1138	ACIMUT
88	8006	8004	-.0003	47.75	-.0159	DISTANCIA
89	8006	8005	-.6153	.33	-.2044	ACIMUT
90	8006	8005	-.0007	67.98	-.0498	DISTANCIA
91	8007	8006	.8133	.33	.2702	ACIMUT
92	8007	8006	.0014	64.19	.0883	DISTANCIA
93	8008	8006	.3674	.33	.1221	ACIMUT
94	8008	8006	.0007	42.30	.0312	DISTANCIA
95	9999	9998	.5055	.33	.1679	ACIMUT
96	9999	9998	.0017	35.60	.0593	DISTANCIA
167	3251	9999	.0000	.33	.0000	ACIMUT
168	3251	9999	.0000	47.21	.0000	DISTANCIA
169	9999	8003	-.0815	.33	-.0271	ACIMUT
170	9999	8003	-.0021	99.28	-.2057	DISTANCIA
171	8003	5081	-.7998	.33	-.2657	ACIMUT
172	8003	5081	.0035	26.96	.0948	DISTANCIA

LOS RESIDUOS PONDERADOS NO TIENEN DIMENSION ANGULAR O LINEAL , LOS SIN PONDERAR, SI

R E S U L T A D O S D E L A C O M P E N S A C I O N

VERTICE NUMERO	NOMBRE	CORRECCIONES			COORDENADAS COMPENSADAS		PUNTO FIJO
		X	Y	DESPLZ	X	Y	
211	211 25 GALARDON				739350.074	4701573.850	
8006		.000	-.002	.002	739686.207	4707111.900	
9998		.002	.001	.002	739256.963	4707391.477	
8007		.001	-.002	.002	738316.086	4708370.043	
8008		.001	.000	.001	735468.019	4708812.704	
5094		.002	.003	.003	744215.048	4706786.442	
9999		.002	-.007	.007	745268.355	4706892.246	
8003		.006	-.001	.006	745244.425	4706894.909	
5098		.006	.001	.007	746793.676	4706011.361	
8000		.001	-.010	.010	748517.824	4705956.485	
8001		.001	-.009	.009	748006.914	4706162.579	
8002		.001	-.011	.011	746763.202	4706005.619	
8004		.000	-.002	.002	743225.722	4706225.182	
8005		.000	-.002	.002	741084.393	4706396.106	

PARAMETROS DE ERROR

ERROR MEDIO CUADRATICO A PRIORI	1.00
ERROR MEDIO CUADRATICO ESTIMADO	.49
VARIANZA ESTIMADA DEL AJUSTE	.24
MEDIA DE RESIDUOS PONDERADOS	-.0034

ERRORES MEDIOS ESTIMADOS EN EL AJUSTE

ERROR MEDIO DE UNA ACIMUT GPS (SEG.)	.4
ERROR DE UNA ACIMUT GPS/KM (METROS)	.001
ERROR DE UNA DISTANCIA /KM (METROS)	.003
ERROR DE UNA DIRECCION PARTES MILLON	.7
ERROR DE UNA DISTANCIA PARTES MILLON	2.5

TABLA DE ELIPSES DE ERROR ABSOLUTAS

NUMERO VERTICE	E.M.C. X	E.M.C. Y	PARAMETROS DE LA ELIPSE DE ERROR			PUNTO FIJO
			SEMIEJE MENOR	SEMIEJE MAYOR	ORIENTACION	
211	.0000	.0000	.0000	.0000	.00	PUNTO FIJO
8006	.0095	.0095	.0094	.0095	328.20	
9998	.0095	.0095	.0094	.0096	323.69	
8007	.0102	.0103	.0098	.0107	319.74	
8008	.0122	.0119	.0118	.0123	296.53	
5094	.0105	.0100	.0101	.0105	88.20	
9999	.0100	.0099	.0099	.0099	310.40	
8003	.0102	.0099	.0099	.0102	282.29	
5098	.0117	.0110	.0107	.0120	300.37	
8000	.0131	.0124	.0123	.0131	291.26	
8001	.0126	.0118	.0117	.0127	289.07	
8002	.0116	.0110	.0107	.0119	303.93	
8004	.0120	.0115	.0114	.0120	289.00	
8005	.0106	.0101	.0099	.0108	302.01	
ERROR ABSOLUTO MEDIO EN X (METROS) :						.012
ERROR ABSOLUTO MEDIO EN Y (METROS) :						.011

TABLA DE ERRORES DE LAS OBSERVACIONES Y PARAMETROS DE REDUNDANCIA

N.OBS	NPE	NPV	E.M.C. PRIORI OBSERVACION			E.M.C. POSTERIORI OBSERVACION			E.M.C. RESIDUO RESIDUO TIPIF.		FIABILIDAD QB SB	
			SEG	MET	PPM	SEG	MET	PPM	QB	SB		
39	9998	8006	3.010	.002		1.396	.001		1.033	-.714	.882	30.174
40	9998	8006		.012	22.527		.004	6.938	.009	.018	.389	.051
41	9999	8006	3.010	.026		.385	.003		2.907	.241	.067	10.720
42	9999	8006		.027	4.791		.004	.728	.025	.081	.095	.097
43	9999	8003	3.010	.000		1.051	.000		2.129	-.038	.500	14.642
44	9999	8003		.010	418.411		.003	125.505	.008	-.259	.369	.044
45	9998	8004	3.010	.020		.992	.006		2.242	.172	.445	13.904
46	9998	8004		.022	5.418		.008	1.879	.016	.032	.493	.108
47	9998	8005	3.010	.010		.924	.003		2.358	.345	.386	13.219
48	9998	8005		.016	7.807		.006	2.752	.011	.095	.510	.080
49	9998	8000	3.010	.044		.537	.008		2.806	.231	.131	11.106
50	9998	8000		.038	4.067		.009	.976	.033	.071	.236	.150
51	9998	8001	3.010	.042		.497	.007		2.837	.251	.112	10.986
52	9998	8001		.036	4.132		.009	.967	.032	.071	.225	.143
53	9998	8007	3.010	.006		1.220	.003		1.718	-.341	.674	18.141
54	9998	8007		.014	10.369		.005	3.960	.009	-.168	.598	.076
55	9998	211	3.010	.028		1.040	.010		2.150	-.002	.490	14.496
56	9998	211		.027	4.719		.010	1.634	.020	.120	.492	.132
57	9998	8002	3.010	.036		.436	.005		2.877	.289	.086	10.832
58	9998	8002		.033	4.311		.007	.932	.030	.086	.192	.126
59	9998	8008	3.010	.019		1.114	.007		1.992	-.165	.562	15.647
60	9998	8008		.022	5.472		.008	2.012	.015	-.039	.555	.114
61	211	8006	3.010	.026		1.089	.009		2.048	.011	.537	15.218
62	211	8006		.027	4.803		.009	1.711	.018	-.119	.520	.132
63	5081	8006	3.010	.019		1.359	.008		1.220	.312	.836	25.550
64	5081	8006		.022	5.515		.009	2.373	.011	.000	.759	.154
65	8003	5098	3.010	.008		1.443	.004		.717	.340	.943	43.444
66	8003	5098		.015	8.609		.007	3.860	.006	-.104	.825	.126
67	8006	5098	3.010	.034		.480	.005		2.848	-.286	.104	10.942
68	8006	5098		.032	4.391		.008	1.048	.028	.219	.233	.124
69	8003	5094	3.010	.005		1.060	.002		2.110	-3.182	.509	14.771
70	8003	5094		.013	12.664		.004	4.266	.010	.449	.465	.062
71	8006	5094	3.010	.021		.515	.004		2.823	.154	.120	11.038
72	8006	5094		.024	5.203		.005	1.148	.021	.163	.200	.091
73	9998	5094	3.010	.024		.433	.003		2.879	-.425	.085	10.824
74	9998	5094		.025	5.003		.005	.965	.023	-.130	.153	.093
75	9999	5094	3.010	.005		1.037	.002		2.157	3.114	.486	14.449
76	9999	5094		.013	12.450		.004	4.070	.010	-.331	.438	.060
77	9999	8000	3.010	.016		1.399	.007		1.015	-.219	.886	30.695
78	9999	8000		.020	5.958		.009	2.611	.009	-.098	.788	.150
79	9999	8001	3.010	.013		1.416	.006		.912	-.239	.908	34.169
80	9999	8001		.018	6.530		.008	2.887	.008	-.099	.802	.143
81	9999	8002	3.010	.008		1.449	.004		.666	-.236	.951	46.802
82	9999	8002		.015	8.756		.007	3.945	.006	-.180	.833	.128
83	8006	8003	3.010	.026		.386	.003		2.907	-.558	.067	10.722
84	8006	8003		.027	4.798		.005	.810	.025	.223	.117	.098
85	9998	8003	3.010	.028		.318	.003		2.940	.284	.046	10.600
86	9998	8003		.028	4.665		.004	.675	.027	.452	.086	.101
87	8006	8004	3.010	.017		1.121	.006		1.976	-.173	.569	15.771
88	8006	8004		.021	5.741		.008	2.115	.014	-.024	.557	.108
89	8006	8005	3.010	.007		1.199	.003		1.779	-.346	.651	17.517
90	8006	8005		.015	9.368		.006	3.574	.009	-.078	.597	.080
91	8007	8006	3.010	.009		.924	.003		2.357	.345	.387	13.221
92	8007	8006		.016	8.378		.006	2.962	.011	.127	.513	.077
93	8008	8006	3.010	.021		.993	.007		2.239	.164	.447	13.919
94	8008	8006		.024	5.199		.008	1.802	.017	.044	.493	.114
95	9999	9998	3.010	.029		.317	.003		2.941	.172	.045	10.598
96	9999	9998		.028	4.658		.003	.550	.027	.061	.057	.100
167	3251	9999	3.010	.018		1.486	.009		.000	.000	1.000	3006.991
169	9999	8003	3.010	.000		1.051	.000		2.129	-.038	.500	14.642
170	9999	8003		.010	418.411		.003	125.505	.008	-.259	.369	.044
171	8003	5081	3.010	.043		.640	.009		2.717	-.294	.185	11.471
172	8003	5081		.037	4.107		.010	1.086	.031	.112	.287	.151

\*\*\*\*\* FIABILIDAD MEDIA DE LA RED \*\*\*\*\* .483



### 5.1.3. Compensación planimétrica en ED-50

PROGRAMA COMPRED : COMPENSACION DE REDES GEODESICAS POR VARIACION DE COORDENADAS  
SOBRE LA SUPERFICIE ELIPSOIDE DE HAYFORD

D A T O S D E E N T R A D A

EXCENTRICIDAD = .006722670022

SEMIEJE MAYOR = 6378388.0 METROS

PARAMETROS DEL W-TEST DE BAARDA DE DETECCION DE ERRORES GROSEROS

NIVEL DE SIGNIFICACION DEL W-TEST : .001  
POTENCIA DEL W-TEST : .800  
NUMERO CRITICO DETECCION DE ERRORES GROSEROS : 3.290

T A B L A D E V E R T I C E S

DESIGNACION DEL VERTICE N O M B R E	NUMERO DE ORDEN	X	Y	ALTITUD	
177 54 Gue	177	717528.829	4717207.531	1580.67	PUNTO
FIJO					
178 04 Manchoya	178	732744.441	4716844.749	2033.56	PUNTO
FIJO					
210 45 Pueyo	210	717217.510	4699634.679	952.67	PUNTO
FIJO					
211 25 Galardon	211	739457.281	4701784.021	1781.98	PUNTO
FIJO					
178 65 La Estiva	9178	748987.282	4720552.657	2004.96	PUNTO
FIJO					
212 33 San Salvador	212	767652.853	4698322.774	992.60	PUNTO
FIJO					
	5098	746900.973	4706221.594	702.09	
	5094	744322.316	4706996.661	689.49	
	8006	739793.437	4707322.072	726.28	
	9998	739364.187	4707601.648	734.26	
	9999	745375.634	4707102.481	700.57	
	5081	736758.383	4709893.082	762.68	
	8003	745351.698	4707105.134	703.13	
	8007	738423.292	4708580.213	764.68	
	8008	735575.195	4709022.853	873.83	
	8000	748625.142	4706166.743	640.01	
	8001	748114.225	4706372.838	708.96	
	8002	746870.503	4706215.863	703.90	
	8004	743332.993	4706435.384	720.79	
	8005	741191.643	4706606.288	723.05	

T A B L A D E O B S E R V A C I O N E S

NUMERO DE ORDEN	PUNTO DE ESTACION	PUNTO VISADO	OBSERVACION (VALOR MEDIDO)	RAIZ PESO A PRIORI	ERROR A PRIORI	CLASE DE OBSERVACION
39	9998	8006	138.9382110	.199203	5.0200	ACIMUT GPS
40	9998	8006	512.1113270	44.325150	.0226	DISTANCIA GPS
41	177	210	203.1175460	.199203	5.0200	ACIMUT GPS
* 41	ATENCION	177 Y	210	SON FIJOS, Y HAY UNA OBSERVACION DE ACIMUT ENTRE AMBOS		
42	177	210	17572.7575200	9.270955	.1079	DISTANCIA GPS
* 42	ATENCION	177 Y	210	SON FIJOS Y HAY UNA OBSERVACION DE DISTANCIA ENTRE ELLOS		
43	9999	5098	135.5812380	.199203	5.0200	ACIMUT GPS
44	9999	5098	1760.8177990	34.717290	.0288	DISTANCIA GPS
45	5094	5098	120.8189880	.199203	5.0200	ACIMUT GPS
46	5094	5098	2691.6977410	29.887780	.0335	DISTANCIA GPS
47	178	5081	168.7946060	.199203	5.0200	ACIMUT GPS

NUMERO DE ORDEN	PUNTO DE ESTACION	PUNTO VISADO	OBSERVACION (VALOR MEDIDO)	RAIZ PESO A PRIORI	ERROR A PRIORI	CLASE DE OBSERVACION
48	178	5081	8025.3055840	16.631590	.0601	DISTANCIA GPS
49	211	5094	49.9885730	.199203	5.0200	ACIMUT GPS
50	211	5094	7127.8919690	17.972860	.0556	DISTANCIA GPS
51	211	9999	55.5791500	.199203	5.0200	ACIMUT GPS
52	211	9999	7954.3064730	16.730370	.0598	DISTANCIA GPS
53	178	211	175.4362050	.199203	5.0200	ACIMUT GPS
* 53	ATENCION	178 Y	211	SON FIJOS, Y HAY UNA OBSERVACION DE ACIMUT ENTRE AMBOS		
54	178	211	16484.5874810	9.763437	.1024	DISTANCIA GPS
* 54	ATENCION	178 Y	211	SON FIJOS Y HAY UNA OBSERVACION DE DISTANCIA ENTRE ELLOS		
55	178	9998	162.5642390	.199203	5.0200	ACIMUT GPS
56	178	9998	11366.0797490	13.015680	.0768	DISTANCIA GPS
57	178	8006	161.5636750	.199203	5.0200	ACIMUT GPS
58	178	8006	11844.6227230	12.622580	.0792	DISTANCIA GPS
59	5081	5094	125.4448300	.199203	5.0200	ACIMUT GPS
60	5081	5094	8097.0024950	16.533020	.0605	DISTANCIA GPS
61	9998	5098	113.7154540	.199203	5.0200	ACIMUT GPS
62	9998	5098	7659.5866660	17.153270	.0583	DISTANCIA GPS
63	211	5098	67.9599200	.199203	5.0200	ACIMUT GPS
64	211	5098	8663.1457510	15.793860	.0633	DISTANCIA GPS
65	211	5081	381.7299320	.199203	5.0200	ACIMUT GPS
66	211	5081	8543.8884160	15.944020	.0627	DISTANCIA GPS
67	9998	5081	348.1056810	.199203	5.0200	ACIMUT GPS
68	9998	5081	3468.9664580	26.777470	.0373	DISTANCIA GPS
69	9178	5098	211.4849470	.199203	5.0200	ACIMUT GPS
70	9178	5098	14477.2431670	10.824130	.0924	DISTANCIA GPS
71	9178	9999	218.9823850	.199203	5.0200	ACIMUT GPS
72	9178	9999	13922.0428170	11.159440	.0896	DISTANCIA GPS
73	9178	5094	223.3812600	.199203	5.0200	ACIMUT GPS
74	9178	5094	14331.5321950	10.910160	.0917	DISTANCIA GPS
75	9999	5081	322.1790840	.199203	5.0200	ACIMUT GPS
76	9999	5081	9054.9875600	15.319810	.0653	DISTANCIA GPS
77	9178	8006	240.9425680	.199203	5.0200	ACIMUT GPS
78	9178	8006	16106.3018740	9.947130	.1005	DISTANCIA GPS
79	5081	5098	124.2741330	.199203	5.0200	ACIMUT GPS
80	5081	5098	10783.2101960	13.528860	.0739	DISTANCIA GPS
81	9178	9998	242.9632230	.199203	5.0200	ACIMUT GPS
82	9178	9998	16129.8061450	9.935517	.1006	DISTANCIA GPS
83	9178	211	232.1908000	.199203	5.0200	ACIMUT GPS
* 83	ATENCION	9178 Y	211	SON FIJOS, Y HAY UNA OBSERVACION DE ACIMUT ENTRE AMBOS		
84	9178	211	21042.8053100	7.986326	.1252	DISTANCIA GPS
* 84	ATENCION	9178 Y	211	SON FIJOS Y HAY UNA OBSERVACION DE DISTANCIA ENTRE ELLOS		
85	178	5094	147.0020580	.199203	5.0200	ACIMUT GPS
86	178	5094	15195.4193620	10.419150	.0960	DISTANCIA GPS
87	178	9999	143.9556420	.199203	5.0200	ACIMUT GPS
88	178	9999	15947.1680890	10.026480	.0997	DISTANCIA GPS
89	9178	5081	256.6394960	.199203	5.0200	ACIMUT GPS
90	9178	5081	16217.6836100	9.892330	.1011	DISTANCIA GPS
91	178	5098	143.1135600	.199203	5.0200	ACIMUT GPS
92	178	5098	17693.9110170	9.219175	.1085	DISTANCIA GPS
93	177	178	103.5103660	.199203	5.0200	ACIMUT GPS
* 93	ATENCION	177 Y	178	SON FIJOS, Y HAY UNA OBSERVACION DE ACIMUT ENTRE AMBOS		
94	177	178	15216.7964970	10.407560	.0961	DISTANCIA GPS
* 94	ATENCION	177 Y	178	SON FIJOS Y HAY UNA OBSERVACION DE DISTANCIA ENTRE ELLOS		
95	178	210	248.8584450	.199203	5.0200	ACIMUT GPS
* 95	ATENCION	178 Y	210	SON FIJOS, Y HAY UNA OBSERVACION DE ACIMUT ENTRE AMBOS		
96	178	210	23174.3864920	7.359871	.1359	DISTANCIA GPS
* 96	ATENCION	178 Y	210	SON FIJOS Y HAY UNA OBSERVACION DE DISTANCIA ENTRE ELLOS		
97	178	9178	87.8452160	.199203	5.0200	ACIMUT GPS
* 97	ATENCION	178 Y	9178	SON FIJOS, Y HAY UNA OBSERVACION DE ACIMUT ENTRE AMBOS		
98	178	9178	16655.8961420	9.682464	.1033	DISTANCIA GPS
* 98	ATENCION	178 Y	9178	SON FIJOS Y HAY UNA OBSERVACION DE DISTANCIA ENTRE ELLOS		
99	9178	212	157.8139290	.199203	5.0200	ACIMUT GPS
* 99	ATENCION	9178 Y	212	SON FIJOS, Y HAY UNA OBSERVACION DE ACIMUT ENTRE AMBOS		
100	9178	212	29015.4067780	6.057780	.1651	DISTANCIA GPS
* 100	ATENCION	9178 Y	212	SON FIJOS Y HAY UNA OBSERVACION DE DISTANCIA ENTRE ELLOS		
101	177	5081	125.1313400	.199203	5.0200	ACIMUT GPS
102	177	5081	20569.2890990	8.140245	.1228	DISTANCIA GPS
103	210	5081	71.2052660	.199203	5.0200	ACIMUT GPS
104	210	5081	22065.1161330	7.673090	.1303	DISTANCIA GPS
105	212	5098	325.5928040	.199203	5.0200	ACIMUT GPS
106	212	5098	22195.6969900	7.634841	.1310	DISTANCIA GPS
107	177	211	141.0132240	.199203	5.0200	ACIMUT GPS



R E S U L T A D O S D E L A C O M P E N S A C I O N							82	9178	9998	.0107	9.94	.1066	DISTANCIA
VERTICE		CORRECCIONES			COORDENADAS COMPENSADAS		NUMERO DE OBSERVACION	PUNTO DE ESTACION	PUNTO VISADO	RESIDUO	RAIZ PESO A PRIORI	RESIDUO PONDERADO	CLASE DE OBSERVACION
NUMERO	NOMBRE	X	Y	DESPLZ	X	Y							
177	177 54 Gue				717528.829	4717207.531							
178	178 04 Manchoya				732744.441	4716844.749							
210	210 45 Pueyo				717217.510	4699634.679	83	9178	211	-2.9649	.20	-.5906	ACIMUT
211	211 25 Galardon				739457.281	4701784.021	84	9178	211	.0832	7.99	.6643	DISTANCIA
9178	178 65 La Estiva				748987.282	4720552.657	85	178	5094	2.6680	.20	.5315	ACIMUT
212	212 33 San Salvador				767652.853	4698322.774	86	178	5094	-.0457	10.42	-.4766	DISTANCIA
5098		-.199	-.026	.201	746900.775	4706221.561	87	178	9999	2.6031	.20	.5185	ACIMUT
5094		-.151	-.041	.156	744322.167	4706996.615	88	178	9999	-.0472	10.03	-.4734	DISTANCIA
8006		-.069	-.043	.081	739793.370	4707322.027	89	9178	5081	-3.9590	.20	-.7887	ACIMUT
9998		-.061	-.048	.078	739364.127	4707601.598	90	9178	5081	-.0136	9.89	-.1349	DISTANCIA
9999		-.172	-.046	.178	745375.464	4707102.428	91	178	5098	2.1367	.20	.4256	ACIMUT
5081		-.008	-.091	.091	736758.378	4709892.991	92	178	5098	-.0511	9.22	-.4712	DISTANCIA
8003		-.165	-.038	.169	745351.534	4707105.091	93	177	178	3.1040	.20	.6183	ACIMUT
8007		-.043	-.065	.078	738423.251	4708580.147	94	177	178	.0146	10.41	.1524	DISTANCIA
8008		.011	-.073	.073	735575.208	4709022.781	95	178	210	3.5977	.20	.7167	ACIMUT
8000		-.234	-.031	.236	748624.909	4706166.703	96	178	210	.0048	7.36	.0351	DISTANCIA
8001		-.223	-.036	.226	748114.003	4706372.794	97	178	9178	-3.0744	.20	-.6124	ACIMUT
8002		-.200	-.033	.203	746870.304	4706215.824	98	178	9178	-.1338	9.68	-1.2955	DISTANCIA
8004		-.136	-.028	.138	743332.858	4706435.351	99	9178	212	-4.8786	.20	-.9718	ACIMUT
8005		-.095	-.032	.101	741191.549	4706606.253	100	9178	212	-.0198	6.06	-.1202	DISTANCIA

T A B L A D E R E S I D U O S

NUMERO DE OBSERVACION	PUNTO DE ESTACION	PUNTO VISADO	RESIDUO	RAIZ PESO A PRIORI	RESIDUO PONDERADO	CLASE DE OBSERVACION
39	9998	8006	-.6843	.20	-.1363	ACIMUT
40	9998	8006	.0000	44.33	.0014	DISTANCIA
41	177	210	3.2507	.20	.6475	ACIMUT
42	177	210	-.0100	9.27	-.0923	DISTANCIA
43	9999	5098	-1.9641	.20	-.3913	ACIMUT
44	9999	5098	-.0024	34.72	-.0843	DISTANCIA
45	5094	5098	-.4551	.20	-.0907	ACIMUT
46	5094	5098	-.0010	29.89	-.0291	DISTANCIA
47	178	5081	5.8010	.20	1.1556	ACIMUT
48	178	5081	-.0212	16.63	-.3529	DISTANCIA
49	211	5094	-1.4517	.20	-.2892	ACIMUT
50	211	5094	.0535	17.97	.9623	DISTANCIA
51	211	9999	-1.4941	.20	-.2976	ACIMUT
52	211	9999	.0499	16.73	.8343	DISTANCIA
53	178	211	4.6509	.20	.9265	ACIMUT
54	178	211	.0231	9.76	.2259	DISTANCIA
55	178	9998	4.1675	.20	.8302	ACIMUT
56	178	9998	-.0313	13.02	-.4068	DISTANCIA
57	178	8006	3.9422	.20	.7853	ACIMUT
58	178	8006	-.0326	12.62	-.4113	DISTANCIA
59	5081	5094	.1210	.20	.0241	ACIMUT
60	5081	5094	-.0019	16.53	-.0308	DISTANCIA
61	9998	5098	-.0693	.20	-.0138	ACIMUT
62	9998	5098	.0021	17.15	.0363	DISTANCIA
63	211	5098	-2.4020	.20	-.4785	ACIMUT
64	211	5098	.0488	15.79	.7702	DISTANCIA
65	211	5081	3.1253	.20	.6226	ACIMUT
66	211	5081	.0402	15.94	.6415	DISTANCIA
67	9998	5081	.5009	.20	.0998	ACIMUT
68	9998	5081	-.0038	26.78	-.1018	DISTANCIA
69	9178	5098	-3.6077	.20	-.7187	ACIMUT
70	9178	5098	.0538	10.82	.5820	DISTANCIA
71	9178	9999	-4.0690	.20	-.8106	ACIMUT
72	9178	9999	.0497	11.16	.5545	DISTANCIA
73	9178	5094	-4.0855	.20	-.8138	ACIMUT
74	9178	5094	.0396	10.91	.4317	DISTANCIA
75	9999	5081	.3221	.20	.0642	ACIMUT
76	9999	5081	-.0017	15.32	-.0263	DISTANCIA
77	9178	8006	-3.8584	.20	-.7686	ACIMUT
78	9178	8006	.0126	9.95	.1257	DISTANCIA
79	5081	5098	-.0236	.20	-.0047	ACIMUT
80	5081	5098	-.0030	13.53	-.0402	DISTANCIA
81	9178	9998	-3.8391	.20	-.7648	ACIMUT

NUMERO DE OBSERVACION	PUNTO DE ESTACION	PUNTO VISADO	RESIDUO	RAIZ PESO A PRIORI	RESIDUO PONDERADO	CLASE DE OBSERVACION
149	9999	8006	.5364	.20	.1068	ACIMUT
150	9999	8006	.0015	20.87	.0308	DISTANCIA
151	9999	8003	-.0935	.20	-.0186	ACIMUT
152	9999	8003	-.0018	49.70	-.0880	DISTANCIA
153	9998	8004	.3586	.20	.0714	ACIMUT
154	9998	8004	.0010	24.58	.0234	DISTANCIA
155	9998	8005	1.0584	.20	.2108	ACIMUT
156	9998	8005	.0014	32.89	.0472	DISTANCIA
157	9998	8000	.5725	.20	.1140	ACIMUT
158	9998	8000	.0016	14.96	.0243	DISTANCIA
159	9998	8001	.6226	.20	.1240	ACIMUT
160	9998	8001	.0015	15.58	.0240	DISTANCIA
161	9998	8007	-.4776	.20	-.0951	ACIMUT
162	9998	8007	-.0018	37.33	-.0667	DISTANCIA
163	9998	211	2.5842	.20	.5148	ACIMUT
164	9998	211	.0575	20.37	1.1709	DISTANCIA
165	9998	8002	.7268	.20	.1448	ACIMUT
166	9998	8002	.0017	17.20	.0285	DISTANCIA
167	9998	8008	-.4174	.20	-.0832	ACIMUT
168	9998	8008	-.0008	24.86	-.0189	DISTANCIA
169	211	8006	2.2391	.20	.4460	ACIMUT
170	211	8006	.0530	20.95	1.1109	DISTANCIA
171	5081	8006	1.2752	.20	.2540	ACIMUT
172	5081	8006	-.0015	25.07	-.0383	DISTANCIA
173	8003	5098	2.2236	.20	.4430	ACIMUT
174	8003	5098	-.0008	34.58	-.0261	DISTANCIA
175	8006	5098	-.4793	.20	-.0955	ACIMUT
176	8006	5098	.0029	17.87	.0525	DISTANCIA
177	8003	5094	-6.6699	.20	-1.3287	ACIMUT
178	8003	5094	.0044	39.72	.1743	DISTANCIA
179	8006	5094	.2514	.20	.0501	ACIMUT
180	8006	5094	.0014	23.42	.0326	DISTANCIA
181	9998	5094	-1.4141	.20	-.2817	ACIMUT
182	9998	5094	-.0043	22.24	-.0945	DISTANCIA
183	9999	5094	6.7927	.20	1.3531	ACIMUT
184	9999	5094	-.0029	39.54	-.1128	DISTANCIA
185	9999	8000	-.1988	.20	-.0396	ACIMUT
186	9999	8000	-.0008	27.10	-.0205	DISTANCIA
187	9999	8001	-.1932	.20	-.0385	ACIMUT
188	9999	8001	-.0007	29.27	-.0200	DISTANCIA
189	9999	8002	-.1437	.20	-.0286	ACIMUT
190	9999	8002	-.0011	34.86	-.0370	DISTANCIA
191	8006	8003	-1.7891	.20	-.3564	ACIMUT
192	8006	8003	.0047	20.92	.0979	DISTANCIA
193	9998	8003	.6820	.20	.1358	ACIMUT
194	9998	8003	.0110	19.99	.2199	DISTANCIA
195	8006	8004	-.3194	.20	-.0636	ACIMUT
196	8006	8004	-.0007	26.15	-.0186	DISTANCIA
197	8006	8005	-.8011	.20	-.1596	ACIMUT
198	8006	8005	-.0009	35.90	-.0341	DISTANCIA
199	8007	8006	.6646	.20	.1324	ACIMUT
200	8007	8006	.0017	34.13	.0566	DISTANCIA
201	8008	8006	.4669	.20	.0930	ACIMUT
202	8008	8006	.0010	23.40	.0228	DISTANCIA
203	9999	9998	.3527	.20	.0703	ACIMUT
204	9999	9998	.0009	19.94	.0177	DISTANCIA

ERROR MEDIO CUADRATICO A PRIORI	1.00
ERROR MEDIO CUADRATICO ESTIMADO	.52
VARIANZA ESTIMADA DEL AJUSTE	.27
MEDIA DE RESIDUOS PONDERADOS	.0027

ERRORES MEDIOS ESTIMADOS EN EL AJUSTE

ERROR MEDIO DE UNA ACIMUT GPS (SEG.)	1.5
ERROR DE UNA ACIMUT GPS/KM (METROS)	.002
ERROR DE UNA DISTANCIA /KM (METROS)	.002
ERROR DE UNA DIRECCION PARTES MILLON	2.4
ERROR DE UNA DISTANCIA PARTES MILLON	2.2

TABLA DE ELIPSES DE ERROR ABSOLUTAS

NUMERO VERTICE	E.M.C.		PARAMETROS DE LA ELIPSE DE ERROR		ORIENTACION	
	X	Y	SEMIEJE MENOR	SEMIEJE MAYOR		
177	.0000	.0000	.0000	.0000	.00	PUNTO FIJO
178	.0000	.0000	.0000	.0000	.00	PUNTO FIJO
210	.0000	.0000	.0000	.0000	.00	PUNTO FIJO
211	.0000	.0000	.0000	.0000	.00	PUNTO FIJO
9178	.0000	.0000	.0000	.0000	.00	PUNTO FIJO
212	.0000	.0000	.0000	.0000	.00	PUNTO FIJO
5098	.0112	.0111	.0106	.0116	310.90	
5094	.0105	.0098	.0098	.0105	270.36	
8006	.0094	.0093	.0090	.0097	314.27	
9998	.0090	.0091	.0089	.0092	321.35	
9999	.0098	.0098	.0097	.0099	317.85	
5081	.0112	.0113	.0110	.0115	326.67	
8003	.0106	.0098	.0098	.0106	284.92	
8007	.0117	.0120	.0100	.0135	318.28	
8008	.0172	.0158	.0154	.0175	293.96	
8000	.0193	.0171	.0168	.0196	291.25	
8001	.0183	.0155	.0152	.0186	289.33	
8002	.0154	.0137	.0122	.0166	304.29	
8004	.0169	.0148	.0146	.0170	289.15	
8005	.0131	.0114	.0104	.0139	301.36	

ERROR ABSOLUTO MEDIO EN X (METROS) : .016

ERROR ABSOLUTO MEDIO EN Y (METROS) : .014

FACTOR DE ESCALA PARA DISTANCIAS GPS

LOS RESIDUOS PONDERADOS NO TIENEN DIMENSION ANGULAR O LINEAL , LOS SIN PONDERAR, SI

ESCALA = -18.4635 PPM E.M.C. = .4643

PARAMETROS DE ERROR

DESORIENTACION PARA ACIMUTES GPS

DESORIENTACION = .2018 SEGUNDOS E.M.C. = .1221

TABLA DE ERRORES DE LAS OBSERVACIONES Y PARAMETROS DE REDUNDANCIA

N.OBS	NPE	NPV	E.M.C. PRIORI	E.M.C. POSTERIORI	E.M.C. RESIDUO	FIABILIDAD
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### 5.1.4. Compensación altimétrica en WGS-84

PROGRAMA ALTIM2 DE COMPENSACION DE REDES DE NIVELACION TRIGONOMETRICA POR VARIACION DE COORDENADAS

ERROR KILOMETRICO : .010

ERROR A PRIORI : .010

PARAMETROS DEL W-TEST DE BAARDA

NIVEL DE SIGNIFICACION DEL W-TEST : .001  
 POTENCIA DEL W-TEST : .800  
 NUMERO CRITICO DETECCION DE ERRORES GROSEROS : 3.290

NUMERO	NPE	NPV	OBSERVACION	ALTI	AM	PESO	CLASE
45	8006	8005	-3.246	.000	.000	44.383	1
46	8007	8006	-38.434	.000	.000	42.307	1
47	8008	8006	-147.573	.000	.000	31.925	1
48	9999	9998	33.646	.000	.000	28.938	1

CLASE DE OBSERVACION : 0 DISTANCIAS CENITALES , 1 DESNIVELES

PARAMETROS DE LA RED

NUMERO TOTAL DE VERTICES	=	60
NUMERO DE PUNTOS FIJOS	=	1
NUMERO TOTAL DE RELACIONES DE OBSERVACION	=	86
ELEMENTOS DE LA MATRIZ NORMAL		1677

T A B L A D E V E R T I C E S

DESIGNACION DEL VERTICE N O M B R E	NUMERO DE ORDEN	X	Y	ALTITUD	
211 25 GALARDON	1	211	739350.074	4701573.849	1833.421 PUNTO FIJO
	2	8006	739686.207	4707111.900	777.791
	3	9998	739256.963	4707391.477	785.773
	4	8007	738316.086	4708370.043	816.226
	5	8008	735468.019	4708812.703	925.364
	6	5094	744215.048	4706786.442	741.048
	7	9999	745268.355	4706892.246	752.135
	8	8003	745244.426	4706894.909	754.690
	9	5098	253518.551	4706000.313	753.625
	10	8000	255234.488	4705823.715	691.560
	11	8001	254739.432	4706065.400	760.521
	12	8002	253487.747	4705996.739	755.437
	13	8004	743225.722	4706225.182	772.293
	14	8005	741084.394	4706396.106	774.545

T A B L A D E O B S E R V A C I O N E S

NUMERO	NPE	NPV	OBSERVACION	ALTI	AM	PESO	CLASE
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20	9998	8006	-7.981	.000	.000	58.288	1
21	9999	8006	25.660	.000	.000	29.734	1
22	9999	8003	2.551	.000	.000	86.580	1
23	9998	8004	-13.480	.000	.000	32.965	1
24	9998	8005	-11.228	.000	.000	40.945	1
25	9998	8000	-94.214	.000	.000	24.626	1
26	9998	8001	-25.253	.000	.000	25.176	1
27	9998	8007	30.452	.000	.000	46.191	1
28	9998	211	1047.648	.000	.000	29.310	1
29	9998	8002	-30.337	.000	.000	26.579	1
30	9998	8008	139.591	.000	.000	33.208	1
31	211	8006	-1055.630	.000	.000	29.805	1
32	5081	8006	-36.494	.000	.000	33.399	1
33	8003	5098	-1.067	.000	.000	42.822	1
34	8006	5098	-24.166	.000	.000	27.164	1
35	8003	5094	-13.659	.000	.000	49.573	1
36	8006	5094	-36.747	.000	.000	31.944	1
37	9998	5094	-44.720	.000	.000	30.916	1
38	9999	5094	-11.096	.000	.000	49.292	1
39	9999	8000	-60.572	.000	.000	35.229	1
40	9999	8001	8.388	.000	.000	37.269	1
41	9999	8002	3.304	.000	.000	43.139	1
42	8006	8003	-23.098	.000	.000	29.779	1
43	9998	8003	-31.095	.000	.000	28.979	1
44	8006	8004	-5.498	.000	.000	34.365	1

T A B L A D E R E S I D U O S

NUMERO DE OBSERVACION	PUNTO DE ESTACION	PUNTO VISADO	RESIDUO	RAIZ PESO A PRIORI	RESIDUO PONDERADO
20	9998	8006	.0026	58.288	.1511
21	9999	8006	.0054	29.734	.1605
22	9999	8003	-.0018	86.580	-.1597
23	9998	8004	.0009	32.965	.0291
24	9998	8005	.0009	40.945	.0374
25	9998	8000	-.0025	24.626	-.0613
26	9998	8001	-.0025	25.176	-.0641
27	9998	8007	.0008	46.191	.0357
28	9998	211	.0009	29.310	.0252
29	9998	8002	-.0027	26.579	-.0714
30	9998	8008	.0008	33.208	.0270
31	211	8006	.0008	29.805	.0248

32	5081	8006	-.0096	33.399	-.3204
33	8003	5098	-.0006	42.822	-.0240
34	8006	5098	.0014	27.164	.0379
35	8003	5094	-.0088	49.573	-.4349
36	8006	5094	.0044	31.944	.1400
37	9998	5094	.0154	30.916	.4754
38	9999	5094	.0010	49.292	.0484
39	9999	8000	.0012	35.229	.0429
40	9999	8001	.0012	37.269	.0433
41	9999	8002	.0010	43.139	.0440
42	8006	8003	.0036	29.779	.1059
43	9998	8003	-.0105	28.979	-.3029
44	8006	8004	-.0008	34.365	-.0279
45	8006	8005	-.0008	44.383	-.0345
46	8007	8006	.0009	42.307	.0389
47	8008	8006	.0009	31.925	.0281
48	9999	9998	.0077	28.938	.2230

31	211	8006	-1055.631	.034	.008	.036	.023	.531	.123
32	5081	8006	-36.484	.030	.008	-.552	.017	.664	.145
33	8003	5098	-1.066	.023	.006	-.047	.012	.737	.134
34	8006	5098	-24.167	.037	.007	.047	.030	.345	.092
35	8003	5094	-13.650	.020	.004	-.569	.015	.417	.059
36	8006	5094	-36.751	.031	.005	.160	.027	.235	.060
37	9998	5094	-44.735	.032	.004	.528	.029	.188	.054
38	9999	5094	-11.097	.020	.004	.062	.016	.396	.057
39	9999	8000	-60.573	.028	.007	.076	.016	.683	.143
40	9999	8001	8.387	.027	.007	.079	.015	.698	.140
41	9999	8002	3.303	.023	.006	.086	.012	.736	.133
42	8006	8003	-23.101	.034	.004	.114	.031	.138	.046
43	9998	8003	-31.085	.035	.003	-.318	.033	.095	.039
44	8006	8004	-5.497	.029	.007	-.042	.020	.550	.111
45	8006	8005	-3.246	.023	.005	-.054	.015	.584	.092
46	8007	8006	-38.435	.024	.005	.056	.017	.512	.083
47	8008	8006	-147.574	.031	.007	.040	.022	.510	.110
48	9999	9998	33.638	.035	.003	.231	.033	.069	.032
85	9999	8003	2.553	.012	.002	-.208	.009	.412	.033
86	8003	5081	59.585	.040	.008	-.552	.031	.398	.112

\*\*\*\*\* FIABILIDAD MEDIA DE LA RED \*\*\*\*\* .372

PARAMETROS DE ERROR

ERROR MEDIO CUADRATICO A PRIORI	1.
ERROR MEDIO CUADRATICO ESTIMADO	.31
MEDIA DE RESIDUOS PONDERADOS	.00

ERROR KILOMETRICO MEDIO	.002
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RESULTADOS DE LA COMPENSACION

NOMBRE	NUMERO	ALTITUD	E. M. C.	CORRECCION
211 25 GALARDON	211	1833.421		PUNTO FIJO
	8006	777.790	.008	-.001
	9998	785.774	.008	.001
	8007	816.225	.009	-.001
	8008	925.364	.010	.000
	5094	741.039	.009	-.009
	9999	752.136	.008	.001
	8003	754.689	.008	-.001
	5098	753.623	.010	-.002
	8000	691.563	.011	.003
	8001	760.523	.010	.002
	8002	755.439	.010	.002
	8004	772.293	.010	.000
	8005	774.545	.009	.000

TABLA DE ERRORES Y REDUNDANCIAS DE LAS OBSERVACIONES

N.OBS	NPE	NPV	DESNIVEL COMPENSADO	E.M.C. PRIORI	E.M.C. POSTERIORI	RESIDUO TIPIFICADO	E.M.C. RESIDUO	FIABILIDAD QB	SB
20	9998	8006	-7.984	.017	.003	.189	.014	.361	.044
21	9999	8006	25.654	.034	.004	.171	.032	.123	.043
22	9999	8003	2.553	.012	.002	-.208	.009	.412	.033
23	9998	8004	-13.481	.030	.007	.042	.021	.510	.107
24	9998	8005	-11.229	.024	.005	.054	.017	.512	.086
25	9998	8000	-94.211	.041	.007	-.076	.033	.351	.103
26	9998	8001	-25.251	.040	.007	-.079	.032	.338	.098
27	9998	8007	30.452	.022	.005	.056	.014	.591	.090
28	9998	211	1047.647	.034	.008	.036	.024	.515	.121
29	9998	8002	-30.335	.038	.006	-.086	.031	.306	.086
30	9998	8008	139.590	.030	.007	.040	.020	.547	.114

**5.1.5. Compensación altimétrica en ED50**

PROGRAMA ALTIM2 DE COMPENSACION DE REDES DE NIVELACION TRIGONOMETRICA POR VARIACION DE COORDENADAS							
NUMERO	NPE	NPV	OBSERVACION	ALTI	AM	PESO	CLASE
33	9178	9999	-1304.639	.000	.000	11.817	1
34	9178	5094	-1315.718	.000	.000	11.667	1
35	9999	5081	62.108	.000	.000	14.249	1
36	9178	8006	-1278.926	.000	.000	11.079	1
37	9178	9998	-1270.953	.000	.000	11.071	1
38	9178	211	-223.040	.000	.000	9.829	1
39	178	5094	-1343.997	.000	.000	11.369	1
40	178	9999	-1332.918	.000	.000	11.128	1
41	9178	5081	-1242.531	.000	.000	11.045	1
42	178	5098	-1331.404	.000	.000	10.624	1
43	177	178	453.051	.000	.000	11.361	1
44	178	210	-1080.651	.000	.000	9.409	1
45	178	9178	-28.279	.000	.000	10.914	1
46	9178	212	-1012.924	.000	.000	8.494	1
47	177	5081	-817.758	.000	.000	9.930	1
48	210	5081	-190.158	.000	.000	9.620	1
49	212	5098	-290.200	.000	.000	9.595	1
50	177	211	201.733	.000	.000	8.807	1
51	177	9998	-846.181	.000	.000	9.288	1
52	177	8006	-854.154	.000	.000	9.200	1
53	212	9999	-291.714	.000	.000	9.272	1
54	210	211	829.334	.000	.000	9.567	1
55	210	9998	-218.580	.000	.000	9.344	1
56	210	8006	-226.553	.000	.000	9.289	1
57	212	5094	-302.793	.000	.000	9.111	1
58	177	5094	-890.945	.000	.000	8.541	1
59	210	5094	-263.344	.000	.000	8.622	1
60	177	9999	-879.867	.000	.000	8.415	1
61	212	8006	-266.000	.000	.000	8.461	1
62	212	9998	-258.027	.000	.000	8.396	1
63	211	212	-789.884	.000	.000	8.578	1
64	210	9999	-252.265	.000	.000	8.479	1
65	177	5098	-878.351	.000	.000	8.198	1
66	210	5098	-250.751	.000	.000	8.315	1
67	212	5081	-229.605	.000	.000	8.009	1
68	177	9178	424.774	.000	.000	8.165	1
69	9178	210	-1052.370	.000	.000	7.500	1
70	178	212	-1041.201	.000	.000	7.369	1
71	9999	8006	25.713	.000	.000	17.463	1
72	9999	8003	2.551	.000	.000	76.335	1
73	9998	8004	-13.472	.000	.000	19.735	1
74	9998	8005	-11.204	.000	.000	25.743	1
75	9998	8000	-94.253	.000	.000	14.042	1
76	9998	8001	-25.296	.000	.000	14.401	1
77	9998	8007	30.418	.000	.000	30.031	1
78	9998	211	1047.912	.000	.000	17.172	1
79	9998	8002	-30.359	.000	.000	15.326	1
80	9998	8008	139.569	.000	.000	19.910	1
81	211	8006	-1055.887	.000	.000	17.513	1
82	8003	5098	-1.044	.000	.000	27.244	1
83	8006	5098	-24.196	.000	.000	15.717	1
84	8003	5094	-13.642	.000	.000	32.955	1
85	8006	5094	-36.783	.000	.000	19.008	1
86	9998	5094	-44.748	.000	.000	18.285	1
87	9999	5094	-11.080	.000	.000	32.707	1
88	9999	8000	-60.567	.000	.000	21.381	1
89	9999	8001	8.391	.000	.000	22.902	1
90	9999	8002	3.328	.000	.000	27.501	1
91	8006	8003	-23.151	.000	.000	17.494	1
92	9998	8003	-31.140	.000	.000	16.945	1
93	8006	8004	-5.498	.000	.000	20.748	1
94	8006	8005	-3.229	.000	.000	28.521	1
95	8007	8006	-38.392	.000	.000	26.829	1
96	8008	8006	-147.543	.000	.000	18.995	1
97	9999	9998	33.691	.000	.000	16.917	1
134	9999	8003	2.551	.000	.000	76.335	1
135	8003	5081	59.538	.000	.000	14.265	1

PARAMETROS DEL W-TEST DE BAARDA							
ERROR KILOMETRICO :	.020						
ERROR A PRIORI :	.010						
NIVEL DE SIGNIFICACION DEL W-TEST :	.001						
POTENCIA DEL W-TEST :	.800						
NUMERO CRITICO DETECCION DE ERRORES GROSEROS :	3.290						

T A B L A D E V E R T I C E S							
DESIGNACION DEL VERTICE	NUMERO	X	Y	ALTITUD			
N O M B R E	NUMERO DE ORDEN						
177 54 Gue	1	177	717528.829	4717207.531	1580.670		
178 04 Manchoya	2	178	732744.441	4716844.749	2033.560		
210 45 Pueyo	3	210	717217.510	4699634.678	952.670		
211 25 Galardon	4	211	739457.281	4701784.021	1781.980		
178 65 La Estiva	5	9178	256707.110	4720350.669	2004.960		
212 33 San Salvador	6	212	273751.519	4696859.850	992.600		
	7	5098	253611.715	4706203.427	701.659	PUNTO FIJO	
	8	5094	744322.167	4706996.615	689.032	PUNTO FIJO	
	9	8006	739793.370	4707322.027	726.284		
	10	9998	739364.127	4707601.598	734.257		
	11	9999	745375.464	4707102.428	700.572		
	12	5081	736758.378	4709892.991	762.056	PUNTO FIJO	
	13	8003	745351.534	4707105.090	703.130		
	14	8007	738423.251	4708580.147	764.676		
	15	8008	735575.208	4709022.781	873.827		
	16	8000	255327.638	4706026.845	640.005		
	17	8001	254832.586	4706268.527	708.962		
	18	8002	253580.916	4706199.857	703.899		
	19	8004	743332.858	4706435.351	720.786		
	20	8005	741191.549	4706606.252	723.054		

T A B L A D E O B S E R V A C I O N E S							
NUMERO	NPE	NPV	OBSERVACION	ALTI	AM	HOJA 1 PESO	CLASE
20	9998	8006	-7.973	.000	.000	41.132	1
21	177	210	-627.601	.000	.000	10.657	1
22	9999	5098	1.514	.000	.000	27.368	1
23	178	5081	-1270.810	.000	.000	15.002	1
24	211	5094	-1092.679	.000	.000	15.774	1
25	211	9999	-1081.600	.000	.000	15.059	1
26	178	211	-251.319	.000	.000	10.965	1
27	178	9998	-1299.232	.000	.000	12.915	1
28	178	8006	-1307.205	.000	.000	12.685	1
29	9998	5098	-32.171	.000	.000	15.302	1
30	211	5098	-1080.085	.000	.000	14.521	1
31	211	5081	-1019.491	.000	.000	14.607	1
32	9178	5098	-1303.125	.000	.000	11.615	1



PARAMETROS DE LA RED						67	212	5081	.1420	8.009	1.1377
						68	177	9178	-.0049	8.165	-.0399
						NUMERO DE OBSERVACION	PUNTO DE ESTACION	PUNTO VISADO	RESIDUO	RAIZ PESO A PRIORI	RESIDUO PONDERADO
NUMERO TOTAL DE VERTICES	=	65				69	9178	210	.0074	7.500	.0553
						70	178	212	-.0109	7.369	-.0804
NUMERO DE PUNTOS FIJOS	=	3				71	9999	8006	.0047	17.463	.0821
						72	9999	8003	-.0018	76.335	-.1346
NUMERO TOTAL DE RELACIONES DE OBSERVACION	=	135				73	9998	8004	.0003	19.735	.0068
						74	9998	8005	.0003	25.743	.0079
						75	9998	8000	-.0028	14.042	-.0397
						76	9998	8001	-.0030	14.401	-.0428
						77	9998	8007	.0002	30.031	.0074
						78	9998	211	.0149	17.172	.2565
ELEMENTOS DE LA MATRIZ NORMAL		1589				79	9998	8002	-.0031	15.326	-.0473
						80	9998	8008	.0003	19.910	.0053
						81	211	8006	-.0144	17.513	-.2519
						82	8003	5098	-.0445	27.244	-1.2132
						83	8006	5098	-.0419	15.717	-.6584
						84	8003	5094	-.0163	32.955	-.5381
						85	8006	5094	-.0023	19.008	-.0436
						86	9998	5094	.0076	18.285	.1382
						87	9999	5094	-.0065	32.707	-.2124
						88	9999	8000	.0012	21.381	.0261
						89	9999	8001	.0012	22.902	.0269
						90	9999	8002	.0010	27.501	.0264
						91	8006	8003	.0043	17.494	.0758
						92	9998	8003	-.0107	16.945	-.1815
						93	8006	8004	-.0003	20.748	-.0064
						94	8006	8005	-.0002	28.521	-.0071
						95	8007	8006	.0003	26.829	.0083
						96	8008	8006	.0003	18.995	.0055
						97	9999	9998	.0080	16.917	.1361
						134	9999	8003	-.0018	76.335	-.1346
						135	8003	5081	.1400	14.265	1.9966

T A B L A D E R E S I D U O S					
NUMERO DE OBSERVACION	PUNTO DE ESTACION	PUNTO VISADO	RESIDUO	RAIZ PESO A PRIORI	RESIDUO PONDERADO
20	9998	8006	.0016	41.132	.0639
21	177	210	-.0023	10.657	-.0246
22	9999	5098	-.0402	27.368	-1.1000
23	178	5081	.1270	15.002	1.9058
24	211	5094	-.0253	15.774	-.3988
25	211	9999	-.0199	15.059	-.2995
26	178	211	-.0113	10.965	-.1237
27	178	9998	-.0267	12.915	-.3452
28	178	8006	-.0252	12.685	-.3193
29	9998	5098	-.0426	15.302	-.6525
30	211	5098	-.0587	14.521	-.8521
31	211	5081	.1387	14.607	2.0263
32	9178	5098	-.0602	11.615	-.6996
33	9178	9999	-.0199	11.817	-.2357
34	9178	5094	-.0260	11.667	-.3038
35	9999	5081	.1571	14.249	2.2386
36	9178	8006	-.0150	11.079	-.1666
37	9178	9998	-.0166	11.071	-.1837
38	9178	211	-.0012	9.829	-.0114
39	178	5094	-.0359	11.369	-.4077
40	178	9999	-.0298	11.128	-.3313
41	9178	5081	.1375	11.045	1.5182
42	178	5098	-.0699	10.624	-.7422
43	177	178	.0036	11.361	.0414
44	178	210	-.0038	9.409	-.0353
45	178	9178	-.0094	10.914	-.1029
46	9178	212	-.0026	8.494	-.0219
47	177	5081	.1316	9.930	1.3066
48	210	5081	.1327	9.620	1.2765
49	212	5098	-.0563	9.595	-.5397
50	177	211	-.0068	8.807	-.0603
51	177	9998	-.0228	9.288	-.2116
52	177	8006	-.0213	9.200	-.1962
53	212	9999	-.0159	9.272	-.1471
54	210	211	-.0054	9.567	-.0520
55	210	9998	-.0212	9.344	-.1979
56	210	8006	-.0196	9.289	-.1822
57	212	5094	-.0220	9.111	-.2000
58	177	5094	-.0318	8.541	-.2718
59	210	5094	-.0302	8.622	-.2605
60	177	9999	-.0263	8.415	-.2216
61	212	8006	-.0108	8.461	-.0910
62	212	9998	-.0122	8.396	-.1026
63	211	212	-.0014	8.578	-.0122
64	210	9999	-.0241	8.479	-.2045
65	177	5098	-.0650	8.198	-.5330
66	210	5098	-.0642	8.315	-.5339

P A R A M E T R O S D E E R R O R		
ERROR MEDIO CUADRATICO A PRIORI		1.
ERROR MEDIO CUADRATICO ESTIMADO		.67
MEDIA DE RESIDUOS PONDERADOS		.00
ERROR KILOMETRICO MEDIO		.006

RESULTADOS DE LA COMPENSACION

NOMBRE	NUMERO	ALTITUD	E. M. C.	CORRECCION		
177 54	Gue	177	1579.945	.024	-.725	
178 04	Manchoya	178	2032.993	.019	-.567	
210 45	Pueyo	210	952.346	.024	-.324	
211 25	Galardon	211	1781.685	.016	-.295	
178 65	La Estiva	9178	2004.724	.020	-.236	
212 33	San Salvador	212	991.803	.026	-.797	
5098			701.659			PUNTO FIJO
5094			689.032			PUNTO FIJO
8006			725.813	.012	-.471	
9998			733.788	.011	-.469	
9999			700.105	.009	-.467	
5081			762.056			PUNTO FIJO
8003			702.658	.010	-.472	
8007			764.206	.020	-.470	
8008			873.356	.026	-.471	
8000			639.537	.028	-.468	
8001			708.495	.026	-.467	
8002			703.432	.023	-.467	
8004			720.316	.026	-.470	
8005			722.584	.020	-.470	

N.OBS	NPE	NPV	DESNIVEL COMPENSADO	E.M.C. PRIORI	E.M.C. POSTERIORI	RESIDUO TIPIFICADO	E.M.C. RESIDUO	FIABILIDAD QB	SB
83	8006	5098	-24.154	.064	.012	-.689	.061	.086	.067
84	8003	5094	-13.626	.030	.010	-.609	.027	.220	.055
85	8006	5094	-36.781	.053	.012	-.047	.049	.125	.068
86	9998	5094	-44.756	.055	.011	-.145	.052	.090	.059
87	9999	5094	-11.073	.031	.009	-.237	.027	.200	.053
88	9999	8000	-60.568	.047	.026	-.048	.025	.707	.250
89	9999	8001	8.389	.044	.025	.051	.023	.725	.244
90	9999	8002	3.327	.036	.021	.055	.017	.771	.230
91	8006	8003	-23.155	.057	.012	.080	.054	.106	.068
92	9998	8003	-31.130	.059	.010	-.188	.057	.069	.055
93	8006	8004	-5.497	.048	.024	-.010	.032	.548	.183
94	8006	8005	-3.229	.035	.018	-.011	.022	.590	.145
95	8007	8006	-38.393	.037	.018	.012	.026	.497	.127
96	8008	8006	-147.543	.053	.025	.008	.037	.500	.181
97	9999	9998	33.683	.059	.009	.140	.057	.055	.049
132	9999	4581	14.249	.029	.019	.003	.000	1.000	28.981
134	9999	8003	2.553	.013	.006	-.179	.010	.437	.040
135	8003	5081	59.398	.070	.010	2.039	.069	.041	.050

\*\*\*\*\* FIABILIDAD MEDIA DE LA RED \*\*\*\*\* .237

TABLA DE ERRORES Y REDUNDANCIAS DE LAS

N.OBS	NPE	NPV	DESNIVEL COMPENSADO	E.M.C. PRIORI	E.M.C. POSTERIORI	RESIDUO TIPIFICADO	E.M.C. RESIDUO	FIABILIDAD QB	SB
20	9998	8006	-7.975	.024	.010	.083	.019	.401	.068
21	177	210	-627.599	.094	.030	-.028	.082	.236	.179
22	9999	5098	1.554	.037	.009	-1.186	.034	.140	.051
23	178	5081	-1270.937	.067	.019	2.100	.061	.176	.106
24	211	5094	-1092.653	.063	.016	-.431	.059	.145	.090
25	211	9999	-1081.580	.066	.017	-.323	.062	.140	.092
26	178	211	-251.308	.091	.022	-.133	.085	.136	.125
27	178	9998	-1299.205	.077	.019	-.373	.072	.142	.108
28	178	8006	-1307.180	.079	.020	-.346	.073	.146	.112
29	9998	5098	-32.129	.065	.011	-.674	.063	.063	.058
30	211	5098	-1080.026	.069	.016	-.910	.065	.123	.089
31	211	5081	-1019.629	.068	.016	2.165	.064	.124	.089
32	9178	5098	-1303.065	.086	.020	-.747	.081	.124	.111
33	9178	9999	-1304.619	.085	.021	-.253	.079	.134	.115
34	9178	5094	-1315.692	.086	.020	-.325	.080	.125	.111
35	9999	5081	61.951	.070	.009	2.282	.069	.038	.048
36	9178	8006	-1278.911	.090	.022	-.179	.084	.129	.119
37	9178	9998	-1270.936	.090	.021	-.196	.085	.122	.116
38	9178	211	-223.039	.102	.024	-.012	.095	.123	.131
39	178	5094	-1343.961	.088	.019	-.430	.083	.101	.101
40	178	9999	-1332.888	.090	.019	-.350	.085	.103	.105
41	9178	5081	-1242.668	.091	.020	1.611	.085	.112	.111
42	178	5098	-1331.334	.094	.019	-.777	.090	.088	.101
43	177	178	453.048	.088	.027	.047	.078	.216	.159
44	178	210	-1080.647	.106	.028	-.038	.098	.157	.158
45	178	9178	-28.269	.092	.025	-.113	.084	.168	.142
46	9178	212	-1012.921	.118	.031	-.024	.108	.157	.175
47	177	5081	-817.889	.101	.024	1.396	.094	.124	.131
48	210	5081	-190.290	.104	.024	1.361	.097	.121	.133
49	212	5098	-290.144	.104	.026	-.584	.096	.144	.147
50	177	211	201.740	.114	.027	-.064	.106	.124	.147
51	177	9998	-846.158	.108	.024	-.225	.101	.115	.133
52	177	8006	-854.132	.109	.025	-.209	.102	.117	.136
53	212	9999	-291.698	.108	.027	-.158	.100	.139	.149
54	210	211	829.339	.105	.027	-.056	.096	.149	.150
55	210	9998	-218.559	.107	.025	-.211	.100	.120	.136
56	210	8006	-226.533	.108	.025	-.195	.101	.123	.139
57	212	5094	-302.771	.110	.026	-.214	.102	.130	.146
58	177	5094	-890.913	.117	.024	-.285	.112	.092	.128
59	210	5094	-263.314	.116	.024	-.274	.110	.097	.131
60	177	9999	-879.840	.119	.024	-.233	.113	.092	.131
61	212	8006	-265.990	.118	.028	-.097	.111	.122	.152
62	212	9998	-258.015	.119	.027	-.109	.112	.116	.148
63	211	212	-789.882	.117	.029	-.013	.108	.141	.162
64	210	9999	-252.241	.118	.025	-.215	.112	.097	.133
65	177	5098	-878.286	.122	.024	-.557	.117	.085	.128
66	210	5098	-250.687	.120	.024	-.560	.115	.090	.130
67	212	5081	-229.747	.125	.026	1.200	.118	.101	.144
68	177	9178	424.779	.122	.029	-.043	.115	.126	.160
69	9178	210	-1052.378	.133	.029	-.059	.126	.110	.161
70	178	212	-1041.190	.136	.031	-.085	.128	.114	.168
71	9999	8006	25.708	.057	.012	-.086	.054	.096	.064
72	9999	8003	2.553	.013	.006	-.179	.010	.437	.040
73	9998	8004	-13.472	.051	.024	-.010	.036	.500	.174
74	9998	8005	-11.204	.039	.018	.011	.028	.497	.133
75	9998	8000	-94.250	.071	.027	-.048	.059	.320	.168
76	9998	8001	-25.293	.069	.026	-.051	.058	.304	.158
77	9998	8007	30.418	.033	.017	.012	.021	.598	.140
78	9998	211	1047.898	.058	.017	.285	.053	.187	.096
79	9998	8002	-30.356	.065	.022	-.055	.056	.263	.134
80	9998	8008	139.569	.050	.025	.008	.034	.545	.189
81	211	8006	-1055.872	.057	.017	-.284	.051	.210	.101
82	8003	5098	-.999	.037	.010	-1.316	.034	.151	.053

#### **5.1.6. Parámetros de transformación**

En este apartado hay que tener en consideración lo siguiente: El apartado **CARTOGRAFÍA** de la presente documentación, corresponde a los trabajos de apoyo y restitución fotogramétrica efectuados en el año 2007.

En aquel momento junto a la complicada orografía de la zona, las condiciones climatológicas propias de esas fechas, hicieron materialmente imposible acceder a los Vértices Geodésicos de la zona, por lo que sólo fue viable enlazar el trabajo a la Red Geodésica a través del vértice **Galardón (21125)**.


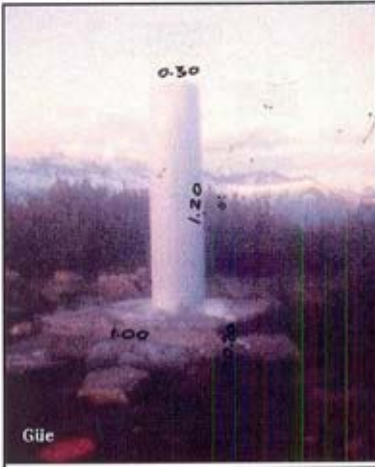
Cuando se han reemprendido los trabajos en el año 2009, los cuales han generado una segunda documentación denominada **TOPOGRAFÍA**, mediante las fases de implantación de bases de replanteo, se ha podido enlazar el trabajo a dos vértices geodésicos más (**V.G. Cancias /21118** y **V.G. Santa Catalina/21215**), procediéndose a recalcular de nuevo toda la red en su conjunto. Debido al recálculo (más completo el actual que el primitivo) las coordenadas de los Vértices de la Red Principal se han visto modificadas.


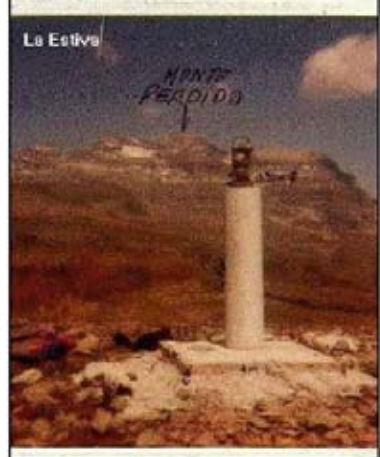
Al revisarse de nuevo la Red, se comprobó que el vértice 8006 había desaparecido, por lo que tuvimos a bien reemplazarlo por uno nuevo notado como 8006B. Efectivamente a este vértice se le ha transmitido cota por GPS a partir de prácticamente todas las Bases de Replanteo con H nivelada, ya que este nuevo vértice se utilizó como una Referencia GPS para la Segunda Fase de los trabajos.

Por tanto la transformación de coordenadas y valores definitivos se encuentran en el punto 2.2.2. del apartado Topografía.

No obstante las coordenadas definitivas de los vértices que forman la Red Básica, se han corregido en todos los apartados en los cuales aparecen.

**5.1.7. Reseñas de los vértices usados**

 <p>Ministerio de Fomento Subsecretaría</p>		<p>General Ibañez de Ibero, 3 28003 MADRID</p>	
<p>Dirección General del Instituto Geográfico Nacional Subdirección General de Geodesia y Geofísica</p>			
<p><b>Reseña Vértice Geodésico</b> <span style="float: right;">13-nov-00</span></p>			
<p>Número...: 017754 Nombre...: GÜe Municipio...: Sabiñánigo Provincia...: Huesca</p>		<p>Fecha de Construcción...: 05-sep-81 Centrado forzado...: SI Nº de cuerpos...: 1 Altura pilar...: 1,20 m Diámetro pilar...: 0,30 m Altura último cuerpo...: 0,20 m Ancho último cuerpo...: 1,00 m Altura total de los cuerpos...: 0,20 m</p>	
<p>Coordenadas ED 50 Longitud...: -0° 20' 58,4489" Compensación...: 01-ene-83 Latitud...: 42° 34' 33,1420"</p>			
<p>X UTM...: 717.528,83 m Factorescala...: 1,000182167 Y UTM...: 4.717.207,53 m Convergencia...: 1° 47' 38,0136" Altura...: 1.579,5 m (BP) Huso...: 30</p>			
<p>Situación: Situado en lo más alto del pico de GÜe, monte de bastante altitud y difícil subida, que está entre los pueblos de Larres y Arguisal. Este monte termina en una pequeña meseta de unos 7 m. de diámetro con arbustos de boj y un mojón de la antigua línea de término municipal.</p>			
<p>Acceso: Desde Sabiñánigo hacia Biescas en el PK-516,4 parte a la izda. una pista de tierra en buen estado que tras 900 m. tiene un desvío a la izda. que no se toma, continuando por la pista a 2,8 Km. de la carretera se desvía a la dcha. por un camino solo apto para todo terreno. Después de 2,2 Km. es necesario dejar el vehículo dado que por un desprendimiento de tierras de alrededor de 10 m. de ancho está cortado el paso. Desde este punto se tarda en llegar al vértice 1 hora y 15 minutos.</p>			
<p>Observaciones: REGENTE96.</p>			
<p>Horizonte GPS: Despejado</p>			

 <p>Ministerio de Fomento Subsecretaría</p>		<p>General Ibañez de Ibero, 3 28003 MADRID</p>	
<p>Dirección General del Instituto Geográfico Nacional Subdirección General de Geodesia y Geofísica</p>			
<p><b>Reseña Vértice Geodésico</b> <span style="float: right;">13-nov-00</span></p>			
<p>Número...: 017865 Nombre...: La Estiva Municipio...: Fanlo Provincia...: Huesca</p>		<p>Fecha de Construcción...: 06-sep-81 Centrado forzado...: SI Nº de cuerpos...: 1 Altura pilar...: 1,20 m Diámetro pilar...: 0,30 m Altura último cuerpo...: 0,20 m Ancho último cuerpo...: 1,00 m Altura total de los cuerpos...: 0,20 m</p>	
<p>Coordenadas ED 50 Longitud...: 0° 02' 04,9180" Compensación...: 01-ene-83 Latitud...: 42° 35' 47,2305"</p>			
<p>X UTM...: 256.707,11 m Factorescala...: 1,000328250 Y UTM...: 4.720.350,67 m Convergencia...: -2° 00' 28,7555" Altura...: 2.003,8 m (BP) Huso...: 31</p>			
<p>Situación: Situado en lo alto del monte La Estiva, que está completamente pelado. Este monte tiene dos ceros de la misma altura separados unos 300 m., la señal está en el más al S.</p>			
<p>Acceso: Desde Sarrié, que está en la carretera C-139 Barbastro-Broto, se toma la pista que, en dirección E., va a Fanlo. Esta pista está asfaltada durante 3 Km., al acabarse el asfalto se bifurca, se deja la pista de la izquierda y 1 Km. después se deja otra pista a la izquierda. Al cabo de 11 Km. se llega a Fanlo, se continúa por la misma pista y a los 18 Km. se bifurca, se sigue a la izquierda, la de la derecha va a 'No', llegando a los 18 Km. a Neren. Desde aquí se continúa por una pista, sólo apta para vehículo T.T., que va en dirección N., se sigue hasta los 26 Km., llegando al collado Cuello Arenas, donde se bifurca, la de la izquierda va a Torla y la del centro al refugio de Gontz. Aquí se deja el vehículo y a pie, hacia la derecha, se sube al collado y luego hacia el S. hasta la señal. Se tarda 1 hora y media.</p>			
<p>Observaciones: REGENTE96.</p>			
<p>Horizonte GPS: Despejado</p>			





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**Reseña Vértice Geodésico**

17-nov-00

Número.....: 017804  
 Nombre.....: Manchoya  
 Municipio...: Broto  
 Provincia...: Huesca

Coordenadas ED 50  
 Longitud...: -0° 09' 52,3426" Compensación...: 01-ene-83  
 Latitud...: 42° 34' 05,4241"

X UTM.....: 732.744,44 m Factor escala...: 1,000266468  
 Y UTM.....: 4.716.844,75 m Convergencia...: 1° 55' 08,2354"  
 Altura.....: 2.032,6 m (BP) Huso.....: 30

Situación:  
 Situado en la parte más alta del monte El Cubilar, en su extremo S.E.

Acceso:  
 Desde Broto y frente al Hostal Español sale una carretera que conduce a Oto. Tras cruzar el puente sobre el río Ara a 200 m. hay un desvío a la izda. que se toma y que discurre paralelo al río, después de 2 desvíos situados uno a 1,4 Km. que conduce a un camping y el otro a 4,0 Km. que aparecen por la derecha que se dejan, aparece en el Km 5,6 una puerta muy grande de hierro que es la entrada a la finca particular. Siguiendo por la dcha. aparecen 2 nuevos desvíos que no se toman a 5,8 y 6,5 Km. Pasamos posteriormente por una casa en ruinas y una torre de electricidad y en el 8,4 Km. el camino sufre un giro muy brusco de casi 180 grados y es donde realmente comienza la subida que después de un camino por la izda. en el p. 10,4 que se deja y atravesar un barranco en el 11,1 Km. en el 12,0 se llega al pueblo abandonado de Ayerbe de Broto, se cruza y se sigue por este camino en mal estado y a 600 m. se atraviesa una cancela de alambre y en el punto 14,200 Km. es obligado dejar el coche aunque es posible que en tiempo seco se pueda avanzar 1 Km. más y reducir el tiempo de subida que desde aquí es de 1 hora y 30 minutos por la pista que hicieron las empresas de prospección de petróleo. Es necesario avisar al propietario de la finca D. Adolfo Sanz Sampietro, en el momento de pasar. Vehículo todo terreno.

Observaciones:  
 REGENTE96. La señal se ha deteriorado a causa de los hielos, quedando reducida a 1 m. la altura del pilar. (Mayo 1996).

Fecha de Construcción...: 08-sep-81  
 Centrado forzado...: SI Nº de cuerpos...: 1  
 Altura pilar...: 1,00 m Diámetro pilar...: 0,30 m  
 Altura último cuerpo...: 0,20 m  
 Ancho último cuerpo...: 1,00 m  
 Altura total de los cuerpos...: 0,20 m



Horizonte GPS:  
 Despejado



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**Reseña Vértice Geodésico**

13-nov-00

Número.....: 021045  
 Nombre.....: Pueyo  
 Municipio...: Sabiñánigo  
 Provincia...: Huesca

Coordenadas ED 50  
 Longitud...: -0° 21' 36,0752" Compensación...: 01-ene-83  
 Latitud...: 42° 25' 04,3496"

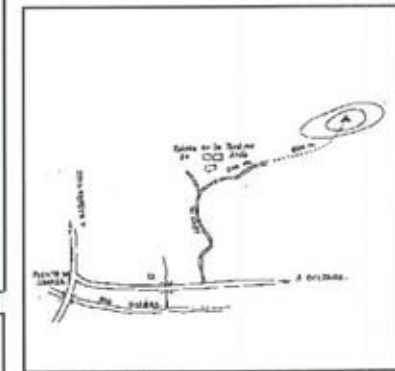
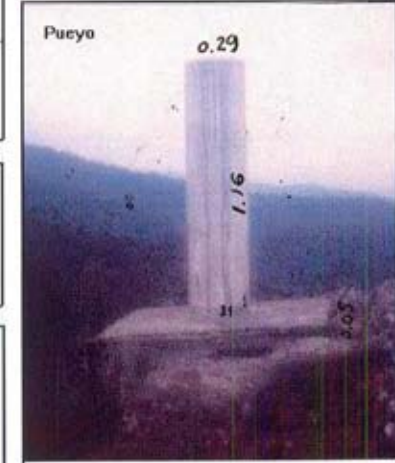
X UTM.....: 717.217,51 m Factor escala...: 1,000180523  
 Y UTM.....: 4.699.634,68 m Convergencia...: 1° 46' 53,2090"  
 Altura.....: 951,5 m (BP) Huso.....: 30

Situación:  
 Situado en la parte mas alta del cerro Pueyo de Alos, que está a unos 2 Km. al N.O. del pueblo de Ordoives. La señal está sobre una roca alargada de unos 2 m. de altura y un ancho de 1,30m.

Acceso:  
 Desde Lanave por la carretera C-136 hacia Huesca, a los 1.500 m. y antes de cruzar el puente sobre el río Guarga, está la desviación de la carretera que va a Boltaña. Se entra por ésta carretera y a los 300 m. se pasa el puente sobre el barranco de Alos, nada mas cruzarlo se sigue a la izda. por un camino que va a lo largo de dicho barranco, a los 1.300 m. se bifurca el camino, poco antes de llegar a las ruinas del pueblo Pardina de Alos. Se sigue a la dcha. y al poco hay que dejar el vehículo por ponerse intrasitable. Se sigue a pie por el camino y luego campo a través hasta la señal recorriendo unos 700 m.

Observaciones:  
 REGENTE96.

Fecha de Construcción...: 07-sep-81  
 Centrado forzado...: SI Nº de cuerpos...: 1  
 Altura pilar...: 1,16 m Diámetro pilar...: 0,29 m  
 Altura último cuerpo...: 0,05 m  
 Ancho último cuerpo...: 1,00 m  
 Altura total de los cuerpos...: 0,05 m



Horizonte GPS:  
 Despejado



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**Reseña Vértice Geodésico**

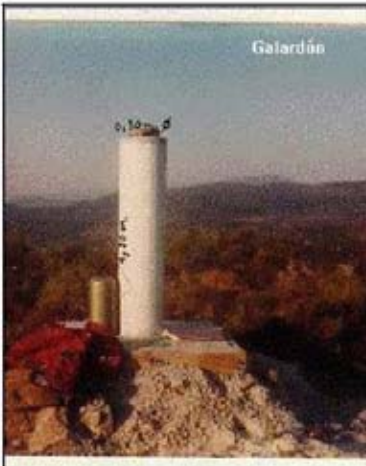
13-nov-00

Número...: 021125  
 Nombre...: Galarcón  
 Municipio...: Fiscal  
 Provincia...: Huesca

Fecha de Construcción...: 07-sep-81  
 Centrado forzado...: Sí Nº de cuerpos...: 1  
 Altura pilas...: 1,20 m Diámetro pilar...: 0,30 m  
 Altura último cuerpo...: 0,20 m  
 Ancho último cuerpo...: 1,00 m  
 Altura total de los cuerpos...: 0,20 m

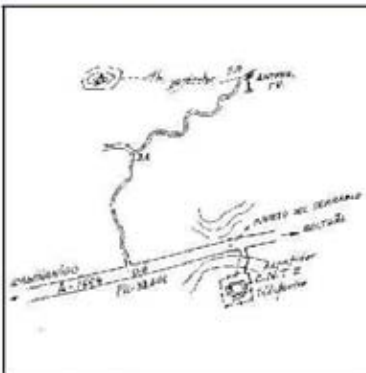
Coordenadas ED 50  
 Longitud...: -0° 05' 20,9592" Compensación...: 01-ene-83  
 Latitud...: 42° 25' 50,3975"

X UTM...: 739 457,28 m Factor escala...: 1,000305494  
 Y UTM...: 4 701 784,02 m Convergencia...: 1° 57' 53,5346"  
 Altura...: 1.780,8 m (BP) Huso...: 30



Situación:  
 Situado en la parte central de la sierra de Galarcón, a unos 1.500 m. al E. del pico Napinales, que es el más alto de la sierra. La señal está junto a la línea de término entre Fiscal y Sabiñánigo.

Acceso:  
 Desde Boltaña por la carretera a Sabiñánigo y en el PK33,600 de la A-1604 (pasado el puerto del Serrablo, donde se encuentra a la izda. un repetidor de Telefónica), parte una pista construida no hace mucho tiempo a la dcha. que tras 2,1 Km. se bifurca, por la izda. conduce a unas torres metálicas eléctricas que no se toma. Por el camino se recorren desde este cruce 3,8 Km. llegando a una antena de televisión. Desde aquí se deja el vehículo todo terreno y por la parte más alta y divisoria de la sierra del Galarcón a la izda. atravesando en algunas zonas vegetación y arbolado abundante, se llega en 1 Hora y 30 minutos.



Observaciones:  
 REGENTE'96:

Horizonte GPS:  
 Despejado



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 Subdirección General de Geodesia y Geofísica

**Reseña Vértice Geodésico**

13-nov-00

Número...: 021233  
 Nombre...: San Salvador  
 Municipio...: Fueva, La  
 Provincia...: Huesca

Fecha de Construcción...: 18-sep-81  
 Centrado forzado...: Sí Nº de cuerpos...: 1  
 Altura pilas...: 1,20 m Diámetro pilar...: 0,30 m  
 Altura último cuerpo...: 0,50 m  
 Ancho último cuerpo...: 1,00 m  
 Altura total de los cuerpos...: 0,50 m

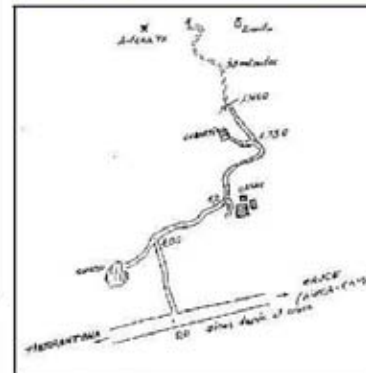
Coordenadas ED 50  
 Longitud...: 0° 15' 06,3021" Compensación...: 01-ene-83  
 Latitud...: 42° 23' 25,2059"

X UTM...: 273 751,52 m Factor escala...: 1,000229607  
 Y UTM...: 4 696 859,05 m Convergencia...: -1° 51' 13,6088"  
 Altura...: 991,4 m (BP) Huso...: 31



Situación:  
 Situado en la parte más alta del monte de San Salvador, que está a unos 700 m. al O. del pueblo de Charo. La señal está entre la Ermita de San Salvador y la antena de T.V., a unos 100 m. al N. de la antena y 200 m. al S. de la Ermita.

Acceso:  
 Por la carretera de Ainsa a Campo se encuentra el desvío a Tierrantona y se recorren 3 kms. por ésta hasta el cruce hacia Charo, después de 1 Km. y dejando el pueblo a la izda. se continúa por la pista 200 m. más, donde dejando a la dcha. un grupo de casas se avanza 200 m. terminando aquí la zona transitable con vehículo todo terreno de la antigua pista que construyeron las empresas petrolíferas. A pie por ésta se tarda en llegar al vértice 30 minutos.



Observaciones:  
 REGENTE'96:

Horizonte GPS:  
 Despejado

## 5.1.8. Vértices Fijos GPS. ED 50 y ETRS 89. UTM HUSO 30

Punto	ED50		ETRS89		Z	Nombre
	X	Y	X	Y		
9998	739364,127	4707601,598	739256,908	4707391,462	733,788	FIJO9998
9999	745375,464	4707102,428	745268,333	4706892,259	700,105	FIJO9999



9998-FIJO GPS



9999-FIJO GPS





## 5.2 LISTADO DE COORDENADAS. ED 50 Y ETRS 89 UTM HUSO 30

Punto	ED50		ETRS89		Z	Nombre
	X	Y	X	Y		
8000	748624,886	4706166,784	255234,475	4705823,807	639,588	V.8000
8001	748113,984	4706372,869	254739,420	4706065,489	708,572	V.8001
8002	746870,263	4706215,891	253487,704	4705996,823	703,484	V.8002
8003	745351,502	4707105,141	745244,371	4706894,972	702,724	V.8003
8004	743332,828	4706435,389	743225,663	4706225,225	720,358	V.8004
8005	741191,517	4706606,277	741084,320	4706396,126	722,540	V.8005
8006	739793,338	4707322,047	739686,124	4707111,908	725,782	V.8006
80061	739823,277	4707345,891	739716,063	4707135,752	725,768	V.8006B
8007	738423,208	4708580,165	738315,979	4708370,040	764,092	V.8007
8008	735575,178	4709022,775	735467,916	4708812,653	873,332	V.8008

### 5.3 RESEÑAS DE LA RED

**CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE**

<p><b>Nombre:</b> V.8000  <b>Número:</b> 8000  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>  <u>UTM (Huso 30)</u>                  X: 748624,886 m                  Y: 4706166,784 m                  H: 639,588 m</p>
<p><b>Situación:</b>                  Situado en el pk 449,400 de la antigua carretera nacional N-260, sobre muro de contención de la misma, entre murete y bionda.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>  <u>GEOGRÁFICAS</u>                  Longitud: 0° 01' 22,1463" E                  Latitud: 42° 27' 57,9395" N                  h: 691,586 m</p>
<p><b>Referencias:</b>                  a= 0,38 m Esq murete                  b= 0,43 m Esq murete                  c= 1,82 m Viga bionda</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE**

<p><b>Nombre:</b> V.8001  <b>Número:</b> 8001  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>  <u>UTM (Huso 30)</u>                  X: 748113,984 m                  Y: 4706372,869 m                  H: 708,572 m</p>
<p><b>Situación:</b>                  En el pk 450,250 de la carretera nacional N-260 sale hacia el N una pista de tierra. Recorremos por ésta 350 m, tras los cuales encontramos el vértice en el margen derecho de la pista.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>  <u>GEOGRÁFICAS</u>                  Longitud: 0° 01' 00,1255" E                  Latitud: 42° 28' 05,2012" N                  h: 760,550 m</p>
<p><b>Referencias:</b>                  a= 0,72 m Mata                  b= 0,58 m Mata                  c= 2,81 m Mata</p>	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE**

<p><b>Nombre:</b> V.8002  <b>Número:</b> 8002  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> FERRALLA</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 746870,263 m                  Y: 4706215,891 m                  H: 703,484 m</p>
<p><b>Situación:</b>                  Situado sobre un saliente al S de la carretera N-260, a la altura del pk 451,450. El vértice se compone de una ferralla embutida en una base de hormigón de 0,8 m de lado.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 00' 05,4926" E                  Latitud: 42° 28' 01,5487" N                  h: 755,460 m</p>
<p><b>Referencias:</b>                  a= 0,42 m Losa                  b= 0,36 m Losa                  c= 1,10 m Roca</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE**

<p><b>Nombre:</b> V.8003  <b>Número:</b> 8003  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 745351,502 m                  Y: 4707105,141 m                  H: 702,724 m</p>
<p><b>Situación:</b>                  Situado en borde de talud al N de la carretera N-260, a la altura del pk 453,600. Se accede a través de una pista en el pk 454,400 que sube hasta un sembrado, que se bordea por el lado S durante 100 m.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 00' 59,5561" O                  Latitud: 42° 28' 32,0768" N                  h: 754,709 m</p>
<p><b>Referencias:</b>                  a= 0,42 m Matorral                  b= 0,36 m Matorral                  c= 0,41 m Matorral</p>	



CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE

<p><b>Nombre:</b> V.8004  <b>Número:</b> 8004  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)</p> <p>X: 743332,828 m                  Y: 4706435,389 m                  H: 720,358 m</p>
<p><b>Situación:</b>                  Desde Ligüerre de Ara se toma la carretera que conduce a Albella y San Felices. Transcurridos 3200 m encontramos el vértice en el margen derecho de la misma, en una curva a la derecha.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS</p> <p>Longitud: 0° 02' 28,8721" O                  Latitud: 42° 28' 12,6834" N                  h: 772,291 m</p>
<p><b>Referencias:</b>                  a= 0,25 m Marca pintura                  b= 0,40 m Marca pintura                  c= 2,41 m Poste valla</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE

<p><b>Nombre:</b> V.8005  <b>Número:</b> 8005  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)</p> <p>X: 741191,517 m                  Y: 4706606,277 m                  H: 722,540 m</p>
<p><b>Situación:</b>                  Desde Ligüerre de Ara se toma la carretera que conduce a Albella y San Felices. Transcurridos 1700 m encontramos el vértice en el margen izquierdo de la misma, en una curva a la derecha, y sobre el talud del río.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS</p> <p>Longitud: 0° 04' 02,2649" O                  Latitud: 42° 28' 20,6267" N                  h: 774,551 m</p>
<p><b>Referencias:</b>                  a= 1,10 m Mata                  b= 0,32 m Marca pintura                  c= 2,90 m Bordo asfalto</p>	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE**

<p><b>Nombre:</b> V.8006B  <b>Número:</b> 80066  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)</p> <p>X: 739823,277 m                  Y: 4707345,891 m                  H: 725,768 m</p>
<p><b>Situación:</b>                  Desde la localidad de San Juste coger el Camino a Ligüerre de Ara. A los 1800 m desde el centro de San Juste sale un camino hacia el NO. Tomando este camino, y al cabo de 1950 m se bifurca. Tomamos el que sale a la izquierda. A los 2250 m salimos del camino adentrándonos en el prado que tenemos a nuestra derecha encontramos la señal.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS</p> <p>Longitud: 0° 05' 00,9958" O                  Latitud: 42° 28' 46,1039" N                  h: 777,779 m</p>
<p><b>Referencias:</b>                  a= 2,60 m Mata                  b= 2,15 m Mata                  c= 3,10 m Piedra</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE**

<p><b>Nombre:</b> V.8006  <b>Número:</b> 8006  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)</p> <p>X: 739793,338 m                  Y: 4707322,047 m                  H: 725,782 m</p>
<p><b>Situación:</b>                  Situado junto a unos aperos de labranza abandonados en un prado al SE de San Justo, y a 1 km del mismo.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS</p> <p>Longitud: 0° 05' 02,3413" O                  Latitud: 42° 28' 45,3652" N                  h: 777,792 m</p>
<p><b>Referencias:</b>                  a= 0,18 m Apero                  b= 0,42 m Base apero                  c= 1,75 m Piedra</p>	



CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE

<p><b>Nombre:</b> V.8007  <b>Número:</b> 8007  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)</p> <p>X: 738423,208 m                  Y: 4708580,165 m                  H: 764,092 m</p>
<p><b>Situación:</b>                  Situado sobre talud al N de la carretera N-260, a la altura del pk: 461,950.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS</p> <p>Longitud: 0° 06' 00,3921" O                  Latitud: 42° 29' 27,6253" N                  h: 816,207 m</p>
<p><b>Referencias:</b>                  a= 0,90 m Muro                  b= 1,55 m Muro                  c= 1,63 m Esq muro</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE VÉRTICE

<p><b>Nombre:</b> V.8008  <b>Número:</b> 8008  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)</p> <p>X: 735575,178 m                  Y: 4709022,775 m                  H: 873,332 m</p>
<p><b>Situación:</b>                  Hito hormigonado del tramo anterior (en obras), en la carretera de Fiscal a Lardies, y 50 m antes del comienzo de las obras.</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS</p> <p>Longitud: 0° 08' 04,3462" O                  Latitud: 42° 29' 45,0951" N                  h: 925,365 m</p>
<p><b>Referencias:</b>                  a= 0,15 m Estaca                  b= 0,22 m Estaca                  c= 0,37 m Estaca</p>	

## 6. APOYO FOTOGRAMÉTRICO

### 6.1. DATOS DE CAMPO

Nº Orden	X	Y	H	Punto	COOR. GEOCENTRICAS			Referencia	Alt.Fijo	Alt. Móvil	Precisión	Exy	Ez
					X	Y	H						
1	736794.889	4708438.946	828.633	1012	4710850.709	-9748.608	4286626.867	*GPS: 8003	2.000	1.580	8	0.007	0.009
2	736464.093	4708771.477	834.197	1021	4710622.091	-10067.390	4286883.919	*GPS: 8003	2.000	1.580	8	0.026	0.036
3	736670.314	4709067.553	822.822	1022	4710419.025	-9850.840	4287089.215	*GPS: 8003	2.000	1.580	8	0.017	0.023
4	736117.540	4708753.415	841.123	1031	4710630.699	-10414.322	4286883.954	*GPS: 8003	2.000	1.580	8	0.017	0.023
5	735806.131	4708914.321	921.049	1041	4710573.201	-10719.930	4287064.276	*GPS: 8003	2.000	1.580	8	0.020	0.027
6	735817.958	4708759.744	865.426	1042	4710636.822	-10713.487	4286912.514	*GPS: 8003	2.000	1.580	8	0.023	0.032
7	736497.042	4709918.722	830.745	2051	4709845.952	-9993.876	4287725.976	*GPS: 8003	2.000	1.580	8	0.025	0.034
8	735988.957	4709103.824	911.804	2052	4710443.064	-10530.526	4287193.090	*GPS: 8003	2.000	1.580	8	0.010	0.014
9	736641.813	4709692.084	818.583	2061	4709993.611	-9857.218	4287547.174	*GPS: 8003	2.000	1.580	8	0.013	0.018
10	736257.050	4709013.668	896.972	2062	4710499.712	-10265.805	4287109.947	*GPS: 8003	2.000	1.580	8	0.018	0.025
11	736835.271	4709329.070	815.516	2071	4710241.241	-9676.751	4287272.819	*GPS: 8003	2.000	1.580	8	0.021	0.029
12	736571.203	4708907.821	820.265	2072	4710522.474	-9955.520	4286972.284	*GPS: 8003	2.000	1.580	8	0.025	0.034
13	737106.140	4709090.387	820.742	2081	4710412.978	-9414.547	4287093.710	*GPS: 8003	2.000	1.580	8	0.017	0.023
14	736821.856	4708684.269	819.801	2082	4710679.294	-9712.971	4286800.983	*GPS: 8003	2.000	1.580	8	0.017	0.023
15	737299.568	4709021.756	829.640	2091	4710470.694	-9223.713	4287044.302	*GPS: 8003	2.000	1.580	8	0.021	0.029
16	736957.629	4708464.359	822.985	2092	4710833.462	-9585.089	4286637.699	*GPS: 8003	2.000	1.580	8	0.021	0.029
17	737641.687	4708827.090	817.662	2101	4710601.789	-8888.734	4286884.190	*GPS: 8003	2.000	1.580	8	0.020	0.027
18	737366.801	4708327.355	827.317	2102	4710939.341	-9181.092	4286529.410	*GPS: 8003	2.000	1.580	8	0.008	0.011
19	737921.017	4708645.032	826.307	2111	4710738.000	-8616.077	4286748.864	*GPS: 8003	2.000	1.580	8	0.018	0.025
20	737636.590	4708267.224	806.320	2112	4710971.167	-8913.614	4286464.142	*GPS: 8003	2.000	1.580	8	0.015	0.020
21	738229.083	4708489.014	818.690	2121	4710845.346	-8313.765	4286621.004	*GPS: 8003	2.000	1.580	8	0.021	0.029
22	737892.574	4708090.902	799.816	2122	4711091.743	-8664.062	4286323.387	*GPS: 8003	2.000	1.580	6	0.048	0.065
23	738357.027	4708393.286	826.254	2131	4710918.710	-8189.319	4286552.354	*GPS: 8003	2.000	1.580	7	0.015	0.020
24	738116.109	4707828.566	802.476	2132	4711276.304	-8449.987	4286126.249	*GPS: 8003	2.000	1.580	7	0.012	0.016
25	738659.911	4708192.909	808.193	2141	4711048.142	-7893.741	4286384.867	*GPS: 8003	2.000	1.580	8	0.008	0.011
26	738323.580	4707701.262	800.448	2142	4711365.873	-8247.181	4286025.842	*GPS: 8003	2.000	1.580	8	0.021	0.029
27	738951.947	4707907.355	782.882	2151	4711229.425	-7612.008	4286149.982	*GPS: 8003	2.000	1.580	8	0.023	0.032
28	738679.620	4707598.382	802.510	2152	4711445.654	-7895.068	4285942.440	*GPS: 8003	2.000	1.580	8	0.012	0.015
29	739261.112	4707862.756	806.085	2161	4711284.284	-7304.697	4286124.970	*GPS: 8003	2.000	1.580	8	0.008	0.011
30	738934.484	4707423.619	795.727	2162	4711564.898	-7646.580	4285802.636	*GPS: 8003	2.000	1.580	8	0.026	0.034
31	739535.159	4707870.954	804.567	2171	4711284.405	-7030.579	4286123.045	*GPS: 8003	2.000	1.580	8	0.017	0.021
32	739234.420	4707299.466	792.034	2172	4711653.373	-7351.272	4285701.065	*GPS: 8003	2.000	1.580	7	0.023	0.032

Nº Orden	X	Y	H	Punto	COOR. GEOCENTRICAS			Referencia	Alt.Fijo	Alt. Móvil	Precisión	Exy	Ez
					X	Y	H						
33	739788.741	4707481.454	784.889	2181	4711538.993	-6790.956	4285816.307	*GPS: 8003	2.000	1.580	7	0.010	0.014
34	739445.452	4706997.206	789.938	2182	4711860.996	-7151.097	4285471.557	*GPS: 8003	2.000	1.580	7	0.010	0.014
35	740044.731	4707262.073	770.479	2191	4711682.710	-6542.917	4285638.413	*GPS: 8003	2.000	1.580	7	0.012	0.016
36	739700.036	4706872.900	788.104	2192	4711949.801	-6901.112	4285372.258	*GPS: 8003	2.000	1.580	7	0.012	0.016
37	740309.651	4707196.959	788.529	2201	4711746.481	-6280.533	4285595.888	*GPS: 8003	2.000	1.580	7	0.007	0.009
38	739930.672	4706766.089	784.668	2202	4712025.022	-6674.437	4285285.370	*GPS: 8003	2.000	1.580	8	0.020	0.025
39	740584.387	4707126.432	784.582	2211	4711797.914	-6008.511	4285534.261	*GPS: 8003	2.000	1.580	8	0.017	0.021
40	740211.491	4706592.223	788.141	2212	4712151.808	-6399.997	4285152.447	*GPS: 8003	2.000	1.580	8	0.007	0.008
41	740913.670	4706990.717	779.969	2221	4711894.169	-5684.292	4285422.746	*GPS: 8003	2.000	1.580	8	0.008	0.011
42	740444.433	4706577.020	772.360	2222	4712156.156	-6167.767	4285124.666	*GPS: 8003	2.000	1.580	8	0.003	0.004
43	741095.164	4706395.349	777.730	2242	4712298.661	-5523.996	4284977.829	*GPS: 8003	2.000	1.580	8	0.012	0.015
44	740996.671	4706690.706	765.208	2332	4712087.739	-5611.954	4285189.564	*GPS: 8003	2.000	1.580	7	0.017	0.026
45	748883.413	4705981.263	692.829	3251	4712702.776	2243.023	4284413.551	*GPS: 8003	2.000	1.580	7	0.008	0.013
46	748744.610	4705943.242	692.887	3252	4712725.188	2102.998	4284389.219	*GPS: 8003	2.000	1.580	7	0.023	0.036
47	748565.295	4705944.991	695.576	3261	4712721.754	1923.903	4284397.038	*GPS: 8003	2.000	1.580	7	0.017	0.026
48	748222.184	4706426.580	837.570	3271	4712493.493	1598.154	4284856.857	*GPS: 8003	2.000	1.580	7	0.021	0.033
49	748139.558	4706113.738	699.438	3272	4712600.692	1504.506	4284535.195	*GPS: 8003	2.000	1.580	7	0.008	0.013
50	747965.048	4706248.125	796.782	3281	4712577.702	1334.919	4284704.542	*GPS: 8003	2.000	1.580	7	0.050	0.079
51	747756.932	4706062.557	719.041	3282	4712640.603	1120.407	4284520.741	*GPS: 8003	2.000	1.580	4	0.168	0.264
52	747445.411	4706159.208	741.531	3291	4712584.591	812.576	4284615.315	*GPS: 8003	2.000	1.580	8	0.012	0.015
53	747539.095	4706124.637	734.888	3292	4712605.239	904.956	4284582.899	*GPS: 8003	2.000	1.580	8	0.040	0.050
54	747003.646	4705913.570	751.120	3301	4712746.854	362.508	4284452.296	*GPS: 8003	2.000	1.580	8	0.017	0.021
55	747172.858	4706078.524	757.364	3302	4712644.215	537.407	4284573.667	*GPS: 8003	2.000	1.580	8	0.010	0.013
56	746715.989	4705777.098	716.628	3311	4712806.611	70.273	4284335.931	*GPS: 8003	2.000	1.580	6	0.013	0.015
57	746928.077	4705930.137	760.136	3312	4712740.528	287.590	4284472.567	*GPS: 8003	2.000	1.580	6	0.018	0.021
58	746655.417	4706227.865	735.101	3321	4712514.711	25.689	4284682.212	*GPS: 8003	2.000	1.580	8	0.008	0.011
59	746559.248	4705673.532	717.427	3322	4712873.320	-89.995	4284264.223	*GPS: 8003	2.000	1.580	8	0.030	0.038
60	746284.398	4705683.940	722.853	3331	4712863.735	-364.241	4284282.719	*GPS: 8003	2.000	1.580	8	0.010	0.013
61	746427.054	4706573.232	738.856	3332	4712279.031	-190.267	4284945.233	*GPS: 8003	2.000	1.580	7	0.036	0.050
62	746035.740	4705900.068	714.813	3341	4712706.063	-605.044	4284443.061	*GPS: 8003	2.000	1.580	8	0.082	0.110
63	746155.134	4706678.338	738.309	3342	4712201.214	-458.238	4285029.406	*GPS: 8003	2.000	1.580	9	0.016	0.022
64	745747.497	4706804.782	731.082	3351	4712100.811	-861.055	4285128.312	*GPS: 8003	2.000	1.580	9	0.018	0.023
65	745720.996	4705910.940	721.774	3352	4712696.324	-919.135	4284463.957	*GPS: 8003	2.000	1.580	9	0.016	0.022
66	745331.186	4705904.540	776.452	3361	4712731.621	-1308.849	4284506.276	*GPS: 8003	2.000	1.580	9	0.019	0.025
67	745575.940	4706985.397	751.050	3362	4711989.564	-1026.082	4285279.356	*GPS: 8003	2.000	1.580	9	0.018	0.023
68	744998.228	4705799.218	781.022	3371	4712798.036	-1645.251	4284440.365	*GPS: 8003	2.000	1.580	9	0.016	0.022
69	745181.573	4706868.931	731.122	3372	4712043.973	-1424.228	4285190.304	*GPS: 8003	2.000	1.580	9	0.020	0.027
70	744748.360	4705811.083	782.089	3381	4712784.804	-1894.490	4284456.300	*GPS: 8003	2.000	1.580	9	0.016	0.022



Nº Orden	X	Y	H	Punto	COOR. GEOCENTRICAS			Referencia	Alt.Fijo	Alt. Móvil	Precisión	Exy	Ez
					X	Y	H						
71	744844.638	4706498.573	726.319	3382	4712282.194	-1773.971	4284922.850	*GPS: 8003	2.000	1.580	9	0.016	0.022
72	744643.010	4707174.331	736.401	3391	4711828.845	-1951.537	4285432.878	*GPS: 8003	2.000	1.580	9	0.018	0.023
73	744383.464	4705894.032	788.173	3392	4712724.539	-2256.150	4284530.983	*GPS: 8003	2.000	1.580	9	0.024	0.029
74	744208.349	4706788.483	744.846	3401	4712084.921	-2399.477	4285165.471	*GPS: 8003	2.000	1.580	9	0.048	0.058
75	744170.615	4705977.332	786.798	3402	4712662.192	-2465.875	4284596.949	*GPS: 8003	2.000	1.580	9	0.174	0.209
76	743843.731	4706650.719	753.783	3411	4712175.645	-2768.663	4285079.388	*GPS: 8003	2.000	1.580	9	0.017	0.020
77	743523.456	4706050.019	794.825	3421	4712603.422	-3109.929	4284672.629	*GPS: 8003	2.000	1.580	9	0.018	0.022
78	743726.742	4705962.290	789.854	3422	4712663.861	-2909.911	4284599.375	*GPS: 8003	2.000	1.580	9	0.014	0.016
79	743542.269	4706457.216	742.529	3423	4712290.595	-3076.709	4284936.948	*GPS: 8003	2.000	1.580	9	0.014	0.016
80	743211.219	4706108.426	794.799	3431	4712556.430	-3419.841	4284723.696	*GPS: 8003	2.000	1.580	9	0.021	0.025
81	743276.175	4706517.440	745.529	3432	4712245.725	-3340.452	4284990.208	*GPS: 8003	2.000	1.580	9	0.020	0.023
82	742895.776	4706115.959	782.984	3441	4712534.972	-3734.750	4284729.378	*GPS: 8003	2.000	1.580	9	0.018	0.022
83	742978.462	4706754.829	754.059	3442	4712084.628	-3629.527	4285178.574	*GPS: 8003	2.000	1.580	7	0.021	0.023
84	742802.885	4707086.255	892.994	3451	4711959.213	-3793.321	4285521.154	*GPS: 8003	2.000	1.580	7	0.015	0.016
85	742651.266	4706376.790	766.712	3452	4712341.058	-3969.825	4284916.908	*GPS: 8003	2.000	1.580	7	0.015	0.016
86	742289.721	4706187.910	803.208	3461	4712486.599	-4337.774	4284811.612	*GPS: 8003	2.000	1.580	6	0.022	0.027
87	742455.064	4706787.658	761.638	3462	4712055.336	-4151.334	4285221.321	*GPS: 8003	2.000	1.580	7	0.015	0.018
88	741978.620	4706334.355	758.504	3471	4712347.239	-4643.409	4284897.327	*GPS: 8003	2.000	1.580	9	0.014	0.016
89	742153.881	4706868.958	772.336	3472	4712001.033	-4449.400	4285296.179	*GPS: 8003	2.000	1.580	7	0.006	0.009
90	741680.840	4706345.683	756.701	3481	4712330.993	-4940.541	4284912.074	*GPS: 8003	2.000	1.580	7	0.015	0.022
91	741720.763	4706831.959	762.718	3482	4712008.327	-4883.461	4285273.499	*GPS: 8003	2.000	1.580	7	0.008	0.013
92	741473.179	4706911.990	771.900	3491	4711955.047	-5128.019	4285345.006	*GPS: 8003	2.000	1.580	5	0.002	0.003
93	741418.461	4706506.989	756.314	3492	4712215.463	-5197.000	4285037.400	*GPS: 8003	2.000	1.580	7	0.036	0.043
94	741062.442	4706996.432	777.233	3511	4711891.944	-5535.437	4285421.318	*GPS: 8003	2.000	1.580	7	0.016	0.018
95	740858.667	4706730.067	768.610	3512	4712060.306	-5748.456	4285224.386	*GPS: 8003	2.000	1.580	8	0.043	0.051
96	740922.281	4707103.992	787.761	3513	4711823.696	-5671.689	4285511.267	*GPS: 8003	2.000	1.580	9	0.036	0.045
97	744338.215	4707991.752	756.092	4531	4711284.434	-2227.174	4286056.396	*GPS: 8003	2.000	1.580	7	0.044	0.057
98	744363.388	4706987.476	742.782	4532	4711952.881	-2237.532	4285306.719	*GPS: 8003	2.000	1.580	10	0.030	0.036
99	744611.913	4707694.988	827.281	4541	4711543.797	-1964.223	4285878.727	*GPS: 8003	2.000	1.580	10	0.038	0.046
100	744669.464	4706928.134	726.219	4542	4711988.085	-1933.808	4285243.888	*GPS: 8003	2.000	1.580	10	0.030	0.036
101	744994.463	4707671.933	784.296	4551	4711536.869	-1582.797	4285822.802	*GPS: 8003	2.000	1.580	10	0.028	0.035
102	744976.865	4706926.627	728.675	4552	4711998.317	-1626.722	4285236.477	*GPS: 8003	2.000	1.580	10	0.026	0.031
103	745301.606	4707332.438	752.653	4561	4711750.000	-1287.912	4285543.300	*GPS: 8003	2.000	1.580	10	0.028	0.035
104	745935.668	4707503.278	770.180	4581	4711662.864	-648.349	4285664.555	*GPS: 8003	2.000	1.580	9	0.005	0.007
105	745980.784	4707684.477	772.778	4582	4711543.592	-596.864	4285798.656	*GPS: 8003	2.000	1.580	10	0.004	0.005
106	745892.104	4706791.994	734.267	4583	4712115.254	-717.024	4285117.279	*GPS: 8003	2.000	1.580	10	0.008	0.010

## 6.2. LISTADO DE COORDENADAS

### 6.2.1. Sistema de referencia ED 50 UTM HUSO 30

Punto	X	Y	Z	Nombre
1021	736571.479	4708979.790	778.329	PA-1021
1022	736777.695	4709275.866	766.906	PA-1022
1023	736750.828	4709124.270	763.270	PA-1023
1031	736224.928	4708961.724	785.274	PA-1031
1041	735913.523	4709122.628	865.205	PA-1041
2071	736942.649	4709537.383	759.559	PA-2071
2072	736678.585	4709116.135	764.376	PA-2072
2081	737213.516	4709298.706	764.836	PA-2081
2092	737065.011	4708672.680	767.138	PA-2092
2093	737232.898	4708955.035	754.461	PA-2093
2101	737749.057	4709035.414	761.786	PA-2101
2103	737630.496	4708722.161	745.336	PA-2103
2111	738028.387	4708853.360	770.424	PA-2111
2112	737743.966	4708475.553	750.466	PA-2112
2113	737927.079	4708591.083	741.458	PA-2113
2121	738336.452	4708697.344	762.780	PA-2121
2122	737999.949	4708299.234	743.955	PA-2122
2132	738223.484	4708036.903	746.627	PA-2132
2141	738767.278	4708401.249	752.311	PA-2141

Punto	X	Y	Z	Nombre
2151	739059.311	4708115.702	727.040	PA-2151
2152	738786.990	4707806.729	746.682	PA-2152
2153	739016.000	4708313.783	759.294	PA-2153
2161	739368.472	4708071.107	750.253	PA-2161
2162	739041.852	4707631.971	739.914	PA-2162
2173	739426.002	4707770.797	731.950	PA-2173
2181	739896.097	4707689.813	729.065	PA-2181
2182	739552.817	4707205.564	734.135	PA-2182
2191	740152.087	4707470.437	714.652	PA-2191
2192	739807.401	4707081.263	732.298	PA-2192
2203	740219.110	4707187.029	714.375	PA-2203
2211	740691.739	4707334.805	728.748	PA-2211
2212	740318.853	4706800.597	732.339	PA-2212
2221	741021.019	4707199.097	724.148	PA-2221
2222	740551.792	4706785.397	716.556	PA-2222
3262	748594.411	4706193.237	639.356	PA-3262
3291	747552.703	4706367.702	685.737	PA-3291
3292	747646.386	4706333.134	679.096	PA-3292
3293	747567.816	4706337.173	652.991	PA-3293
3301	747110.945	4706122.060	695.340	PA-3301
3302	747280.154	4706287.014	701.575	PA-3302

Punto	X	Y	Z	Nombre
3303	747218.793	4706172.457	649.564	PA-3303
3311	746823.292	4705985.585	660.858	PA-3311
3312	747035.377	4706138.626	704.358	PA-3312
3331	746391.706	4705892.421	667.083	PA-3331
3332	746534.351	4706781.705	683.059	PA-3332
3333	746372.084	4706457.878	659.567	PA-3333
3341	746143.048	4706108.543	659.037	PA-3341
3342	746262.432	4706886.806	682.509	PA-3342
3361	745438.503	4706113.004	720.675	PA-3361
3362	745683.242	4707193.853	695.249	PA-3362
3371	745105.550	4706007.677	725.249	PA-3371
3372	745288.879	4707077.382	675.335	PA-3372
3381	744855.684	4706019.538	726.316	PA-3381
3382	744951.951	4706707.022	670.535	PA-3382
3412	743993.806	4706596.953	677.386	PA-3412
3421	743630.788	4706258.449	739.071	PA-3421
3423	743649.595	4706665.642	686.764	PA-3423
3431	743318.553	4706316.849	739.062	PA-3431
3432	743383.503	4706725.861	689.771	PA-3432
3441	743003.113	4706324.379	727.238	PA-3441
3442	743085.791	4706963.246	698.286	PA-3442

Punto	X	Y	Z	Nombre
3453	742720.672	4706900.575	691.959	PA-3453
3461	742397.065	4706396.322	747.437	PA-3461
3462	742562.398	4706996.066	705.854	PA-3462
3471	742085.965	4706542.759	702.719	PA-3471
3472	742261.218	4707077.360	716.542	PA-3472
3473	742080.410	4706907.765	693.766	PA-3473
3481	741788.188	4706554.080	700.904	PA-3481
3482	741828.105	4707040.353	706.912	PA-3482
3493	741498.821	4706979.508	707.923	PA-3493
3513	741029.623	4707312.378	731.909	PA-3513
4532	744470.700	4707195.913	686.976	PA-4532
4542	744776.773	4707136.577	670.423	PA-4542
4552	745084.172	4707135.076	672.888	PA-4552
4571	745696.111	4707062.720	672.925	PA-4571
4582	746088.074	4707892.932	716.946	PA-4582
4583	745999.404	4707000.456	678.464	PA-4583
4591	746229.152	4706691.576	668.621	PA-4591

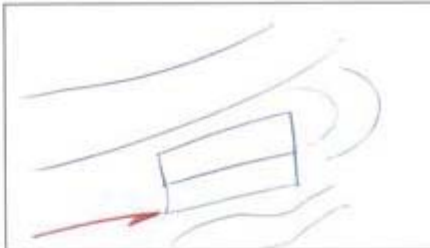
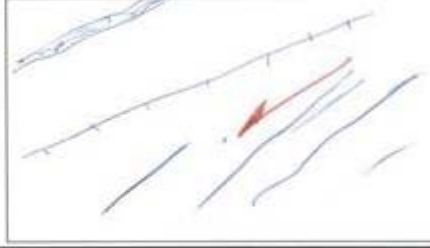
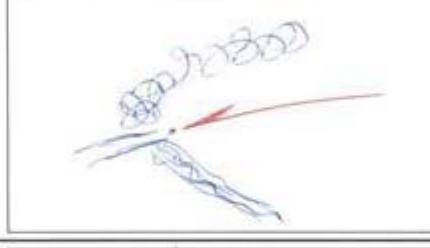
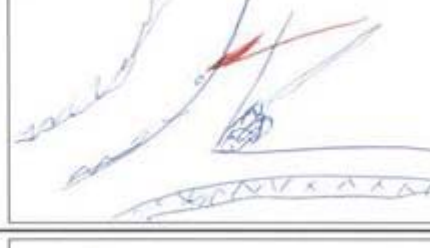
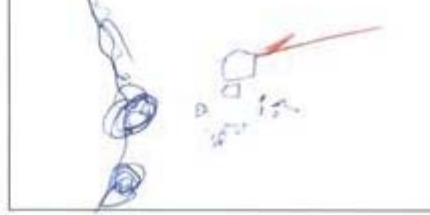
**6.2.2. Sistema de referencia ETRS 89 UTM HUSO 30**

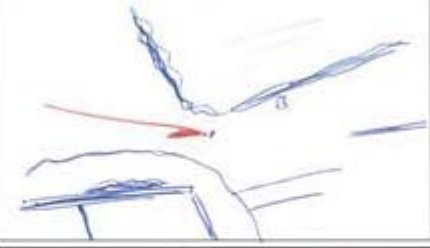
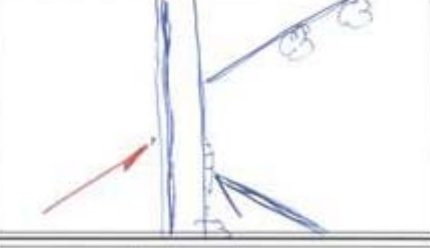
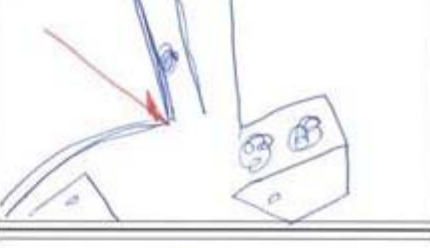
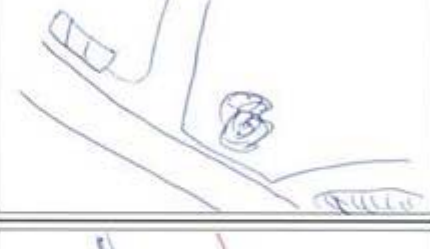
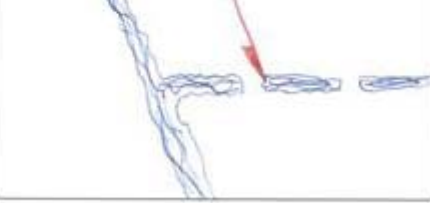
Punto	X	Y	Z	Nombre
1021	736464,224	4708769,793	778,331	PA-1021
1022	736670,451	4709065,872	766,907	PA-1022
1023	736643,58	4708914,273	763,271	PA-1023
1031	736117,664	4708751,735	785,277	PA-1031
1041	735806,256	4708912,649	865,209	PA-1041
2071	736835,414	4709327,391	759,559	PA-2071
2072	736571,335	4708906,139	764,377	PA-2072
2081	737106,282	4709088,703	764,836	PA-2081
2092	736957,76	4708462,665	767,141	PA-2092
2093	737125,657	4708745,023	754,462	PA-2093
2101	737641,83	4708825,393	761,787	PA-2101
2103	737523,259	4708512,135	745,338	PA-2103
2111	737921,163	4708643,328	770,426	PA-2111
2112	737636,727	4708265,519	750,469	PA-2112
2113	737819,846	4708381,047	741,46	PA-2113
2121	738229,231	4708487,302	762,782	PA-2121
2122	737892,712	4708089,19	743,958	PA-2122
2132	738116,246	4707826,848	746,631	PA-2132
2141	738660,061	4708191,191	752,313	PA-2141
2151	738952,094	4707905,63	727,043	PA-2151
2152	738679,76	4707596,656	746,687	PA-2152
2153	738908,787	4708103,717	759,297	PA-2153
2161	739261,261	4707861,028	750,256	PA-2161
2162	738934,624	4707421,889	739,919	PA-2162
2173	739318,786	4707560,709	731,954	PA-2173
2181	739788,89	4707479,713	729,069	PA-2181
2182	739445,592	4706995,46	734,141	PA-2182
2191	740044,881	4707260,326	714,656	PA-2191
2192	739700,179	4706871,151	732,304	PA-2192
2203	740111,9	4706976,91	714,38	PA-2203
2211	740584,543	4707124,679	728,753	PA-2211
2212	740211,636	4706590,467	732,346	PA-2212
2221	740913,827	4706988,961	724,153	PA-2221
2222	740444,58	4706575,262	716,563	PA-2222
3262	748487,373	4705982,911	639,358	PA-3262
3291	747445,644	4706157,403	685,74	PA-3291
3292	747539,329	4706122,832	679,099	PA-3292
3293	747460,757	4706126,873	652,993	PA-3293
3301	747003,871	4705911,765	695,344	PA-3301

Punto	X	Y	Z	Nombre
3302	747173,087	4706076,719	701,579	PA-3302
3303	747111,722	4705962,161	649,567	PA-3303
3311	746716,208	4705775,293	660,862	PA-3311
3312	746928,301	4705928,333	704,362	PA-3312
3331	746284,61	4705682,136	667,088	PA-3331
3332	746427,278	4706571,438	683,061	PA-3332
3333	746265	4706247,607	659,57	PA-3333
3341	746035,951	4705898,269	659,041	PA-3341
3342	746155,355	4706676,547	682,51	PA-3342
3361	745331,39	4705902,746	720,681	PA-3361
3362	745576,158	4706983,614	695,25	PA-3362
3371	744998,427	4705797,424	725,256	PA-3371
3372	745181,784	4706867,149	675,336	PA-3372
3381	744748,555	4705809,29	726,323	PA-3381
3382	744844,84	4706496,788	670,538	PA-3382
3412	743886,67	4706386,738	677,39	PA-3412
3421	743523,636	4706048,234	739,078	PA-3421
3423	743542,453	4706455,436	686,768	PA-3423
3431	743211,395	4706106,642	739,069	PA-3431
3432	743276,356	4706515,662	689,775	PA-3432
3441	742895,948	4706114,179	727,245	PA-3441
3442	742978,642	4706753,059	698,29	PA-3442
3453	742613,513	4706690,395	691,963	PA-3453
3461	742289,888	4706186,137	747,445	PA-3461
3462	742455,238	4706785,891	705,858	PA-3462
3471	741978,784	4706332,584	702,725	PA-3471
3472	742154,052	4706867,194	716,546	PA-3472
3473	741973,237	4706697,599	693,771	PA-3473
3481	741681	4706343,912	700,91	PA-3481
3482	741720,929	4706830,196	706,917	PA-3482
3493	741391,636	4706769,356	707,928	PA-3493
3513	740922,434	4707102,244	731,914	PA-3513
4532	744363,588	4706985,701	686,978	PA-4532
4542	744669,667	4706926,357	670,424	PA-4542
4552	744977,073	4706924,849	672,889	PA-4552
4571	745589,025	4706852,478	672,926	PA-4571
4582	745981,015	4707682,701	716,944	PA-4582
4583	745892,323	4706790,206	678,465	PA-4583
4591	746122,07	4706481,314	668,623	PA-4591



### 6.3. RESEÑAS DE LOS PUNTOS DE APOYO

TRABAJO:	Reseñas de Puntos de Apoyo
Pto. Apoyo N°: 1042 Pasada: 1 Fotograma: 4 Reseña: Esquina olevo Cota: arriba	
Pto. Apoyo N°: 1041 Pasada: 1 Fotograma: 4 Reseña: centro de mata Cota: suelo	
Pto. Apoyo N°: 2052 Pasada: 2 Fotograma: 5 Reseña: Centro de Mata Cota: suelo	
Pto. Apoyo N°: 1031 Pasada: 1 Fotograma: 3 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 2062 Pasada: 2 Fotograma: 6 Reseña: Esquina de voca Cota: suelo	

TRABAJO:	Reseñas de Puntos de Apoyo
Pto. Apoyo N°: 1021 Pasada: 1 Fotograma: 2 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 1022 Pasada: 1 Fotograma: 2 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 1023 Pasada: 1 Fotograma: 2 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 2062 Pasada: 2 Fotograma: 8 Reseña: Esquina uerjo Cota: Suelo	
Pto. Apoyo N°: 1012 Pasada: 1 Fotograma: 1 Reseña: Borde vegetación Cota: Suelo	

TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 3494</p> <p>Pasada: 3 Fotograma: 49</p> <p>Reseña: base de poste</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2242</p> <p>Pasada: 2 Fotograma: 24</p> <p>Reseña: Poste valla</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 3511</p> <p>Pasada: 3 Fotograma: 51</p> <p>Reseña: Base de poste</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: <del>3510</del> 3513</p> <p>Pasada: 3 Fotograma: 51</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 3512</p> <p>Pasada: 3 Fotograma: 51</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	

TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 2221</p> <p>Pasada: 2 Fotograma: 22</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2222</p> <p>Pasada: 2 Fotograma: 22</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2202</p> <p>Pasada: 2 Fotograma: 20</p> <p>Reseña: esquina de muro</p> <p>Cota: <del>Suelo</del> arriba</p>	
<p>Pto. Apoyo N°: 2203</p> <p>Pasada: 2 Fotograma: 20</p> <p>Reseña: centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2212</p> <p>Pasada: 2 Fotograma: 21</p> <p>Reseña: centro de mata</p> <p>Cota: Suelo</p>	

TRABAJO:	Reseñas de Puntos de Apoyo
Pto. Apoyo N°: 2211 Pasada: 2 Fotograma: 21 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 2191 Pasada: 20 Fotograma: 19 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 2192 Pasada: 2 Fotograma: 19 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 2181 Pasada: 2 Fotograma: 18 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 2182 Pasada: 2 Fotograma: 18 Reseña: Centro de mata Cota: Suelo	

TRABAJO:	Reseñas de Puntos de Apoyo
Pto. Apoyo N°: 2175 Pasada: 2 Fotograma: 17 Reseña: Centro de Mata Cota: Suelo	
Pto. Apoyo N°: 2172 Pasada: 2 Fotograma: 17 Reseña: Curvatura de alero Cota: Albero	
Pto. Apoyo N°: 2161 Pasada: 2 Fotograma: 6 Reseña: Centro de Mata Cota: Suelo	
Pto. Apoyo N°: 2162 Pasada: 2 Fotograma: 16 Reseña: Centro de Mata Cota: Suelo	
Pto. Apoyo N°: 2163 Pasada: 2 Fotograma: 16 Reseña: Centro de Mata Cota: Suelo	



TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 2151</p> <p>Pasada: 2 Fotograma: 15</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2152</p> <p>Pasada: 2 Fotograma: 15</p> <p>Reseña: Centro de mata</p> <p>Cota:</p>	
<p>Pto. Apoyo N°: 2153</p> <p>Pasada: 2 Fotograma: 15</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2141</p> <p>Pasada: 2 Fotograma: 14</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2142</p> <p>Pasada: 2 Fotograma: 14</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	

TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 2131</p> <p>Pasada: 2 Fotograma: 13</p> <p>Reseña: Esquina nueva</p> <p>Cota: Arriba</p>	
<p>Pto. Apoyo N°: 2132</p> <p>Pasada: 2 Fotograma: 13</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2121</p> <p>Pasada: 2 Fotograma: 12</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2122</p> <p>Pasada: 2 Fotograma: 12</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2111</p> <p>Pasada: 2 Fotograma: 11</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	



TRABAJO:		Reseñas de Puntos de Apoyo	
Pto. Apoyo N°: 2112 Pasada: 2 Fotograma: 11 Reseña: Centro de mata Cota: suelo			
Pto. Apoyo N°: 2113 Pasada: 3 Fotograma: 11 Reseña: Centro de mata Cota: suelo			
Pto. Apoyo N°: 2101 Pasada: 2 Fotograma: 10 Reseña: Centro de mata Cota: suelo			
Pto. Apoyo N°: 2102 Pasada: 2 Fotograma: 10 Reseña: Esquina a lero Cota: arboles			
Pto. Apoyo N°: 2103 Pasada: 2 Fotograma: 10 Reseña: Centro de mata Cota: suelo			

TRABAJO:		Reseñas de Puntos de Apoyo	
Pto. Apoyo N°: 2091 Pasada: 2 Fotograma: 09 Reseña: Esquina plataforma transición Cota: suelo			
Pto. Apoyo N°: 2092 Pasada: 2 Fotograma: 09 Reseña: Centro de mata Cota: suelo			
Pto. Apoyo N°: 2093 Pasada: 2 Fotograma: 09 Reseña: Centro de mata Cota: suelo			
Pto. Apoyo N°: 2081 Pasada: 2 Fotograma: 08 Reseña: Centro de mata Cota: suelo			
Pto. Apoyo N°: Pasada: Fotograma: Reseña: Cota:			

TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 2071</p> <p>Pasada: 2 Fotograma: 07</p> <p>Reseña: Centro de Mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2072</p> <p>Pasada: 2 Fotograma: 07</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2061</p> <p>Pasada: 2 Fotograma: 6</p> <p>Reseña: Borde blanca</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2051</p> <p>Pasada: 2 Fotograma: 5</p> <p>Reseña: Centro de mata en centro de cauce</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2232</p> <p>Pasada: 2 Fotograma: 23</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	

TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 2201</p> <p>Pasada: 2 Fotograma: 20</p> <p>Reseña: Centro mancha asfalto</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 2171</p> <p>Pasada: 2 Fotograma: 17</p> <p>Reseña: Esquina mojado</p> <p>Cota: Arriba</p>	
<p>Pto. Apoyo N°: 3493</p> <p>Pasada: 3 Fotograma: 49</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 3482</p> <p>Pasada: 3 Fotograma: 48</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 3481</p> <p>Pasada: 3 Fotograma: 48</p> <p>Reseña: Centro de Mata</p> <p>Cota: Suelo</p>	



TRABAJO:		Reseñas de Puntos de Apoyo	
Pto. Apoyo N°: 3471 Pasada: 3 Fotograma: 47 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3472 Pasada: 3 Fotograma: 47 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3473 Pasada: 3 Fotograma: 47 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3461 Pasada: 3 Fotograma: 46 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3462 Pasada: 3 Fotograma: 46 Reseña: Centro de mata Cota: Suelo			

TRABAJO:		Reseñas de Puntos de Apoyo	
Pto. Apoyo N°: 3453 Pasada: 3 Fotograma: 45 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3451 Pasada: 3 Fotograma: 45 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3452 Pasada: 3 Fotograma: 45 Reseña: Esquina de alero Cota: Arriba			
Pto. Apoyo N°: 3441 Pasada: 3 Fotograma: 44 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3442 Pasada: 3 Fotograma: 44 Reseña: Centro de mata Cota: Suelo			

TRABAJO:	Reseñas de Puntos de Apoyo
Pto. Apoyo N°: 3421 Pasada: 3    Fotograma: 42 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 3423 Pasada: 3    Fotograma: 42 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 3431 Pasada: 3    Fotograma: 43 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 3432 Pasada: 3    Fotograma: 43 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 3412 Pasada: 3    Fotograma: 41 Reseña: Centro de Mata Cota: Suelo	

TRABAJO:	Reseñas de Puntos de Apoyo
Pto. Apoyo N°: 3411 Pasada: 3    Fotograma: 41 Reseña: Esquina de Muro Cota: acorcha	
Pto. Apoyo N°: 3401 Pasada: 3    Fotograma: 40 Reseña: Centro de recepción Cota: Suelo	
Pto. Apoyo N°: 3402 Pasada: 3    Fotograma: 40 Reseña: Centro de Mata Cota: Suelo	
Pto. Apoyo N°: 3392 Pasada: 3    Fotograma: 39 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 3391 Pasada: 3    Fotograma: 39 Reseña: Parte de madera Cota: Suelo	



TRABAJO:		Reseñas de Puntos de Apoyo	
Pto. Apoyo N°: 3351 Pasada: 3    Fotograma: 35 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3382 Pasada: 3    Fotograma: 38 Reseña: Centro de Mata Cota: Suelo			
Pto. Apoyo N°: 4552 Pasada: 4    Fotograma: 55 Reseña: Centro de Mata Cota: Suelo			
Pto. Apoyo N°: 3361 Pasada: 3    Fotograma: 36 Reseña: Centro de Mata Cota: Suelo			
Pto. Apoyo N°: 3362 Pasada: 3    Fotograma: 36 Reseña: Centro de mata Cota: Suelo			

TRABAJO:		Reseñas de Puntos de Apoyo	
Pto. Apoyo N°: 3371 Pasada: 3    Fotograma: 37 Reseña: Centro de mata Cota: Suelo			
Pto. Apoyo N°: 3372 Pasada: 3    Fotograma: 37 Reseña: Centro de Mata Cota: Suelo			
Pto. Apoyo N°: 3351 Pasada: 3    Fotograma: 35 Reseña: Esquina de Plataforma Cota: Suelo			
Pto. Apoyo N°: 3352 Pasada: 3    Fotograma: 35 Reseña: Centro de Piedra Cota: Suelo			
Pto. Apoyo N°: 3341 Pasada: 3    Fotograma: 34 Reseña: Centro de mata Cota: Suelo			

TRABAJO:

Reseñas de Puntos de Apoyo

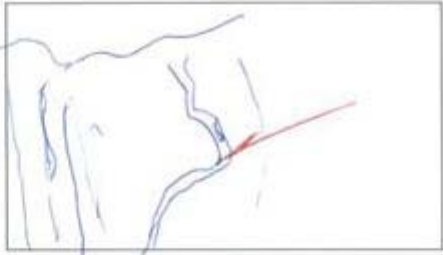
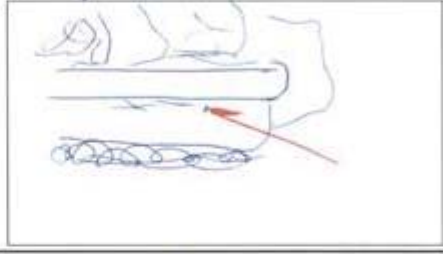
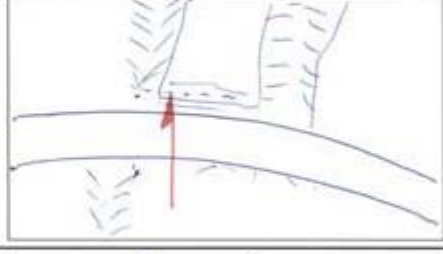
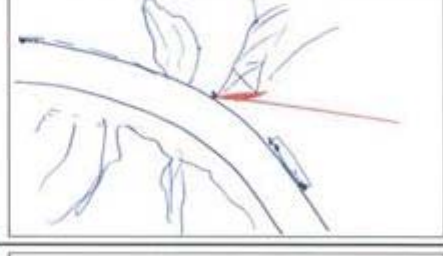
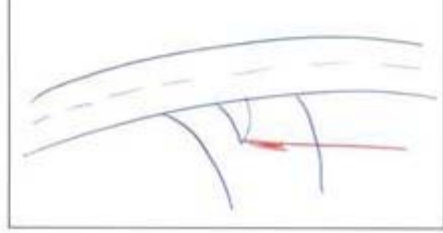
<p>Pto. Apoyo N°: 3342</p> <p>Pasada: 3 Fotograma: 34</p> <p>Reseña: Centro de mata</p> <p>Cota: suelo</p>	
<p>Pto. Apoyo N°: 3331</p> <p>Pasada: 3 Fotograma: 33</p> <p>Reseña: Centro de Mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 3332</p> <p>Pasada: 3 Fotograma: 33</p> <p>Reseña: Centro de mata</p> <p>Cota: suelo</p>	
<p>Pto. Apoyo N°: 3333</p> <p>Pasada: 3 Fotograma: 33</p> <p>Reseña: Centro de mata</p> <p>Cota: suelo</p>	
<p>Pto. Apoyo N°: 3321</p> <p>Pasada: 3 Fotograma: 32</p> <p>Reseña: Esquina interior de muro</p> <p>Cota: arriba</p>	

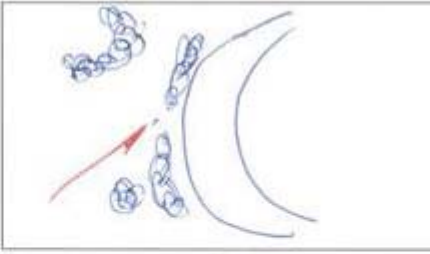
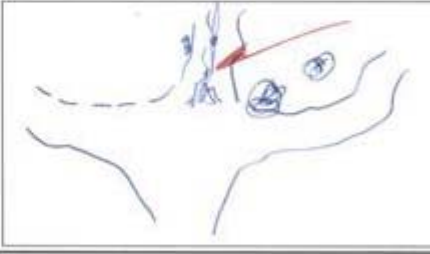
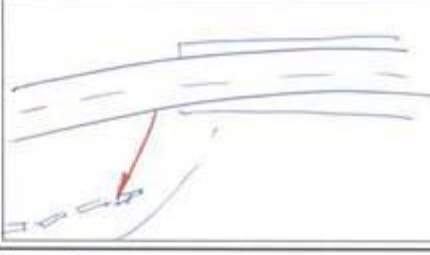
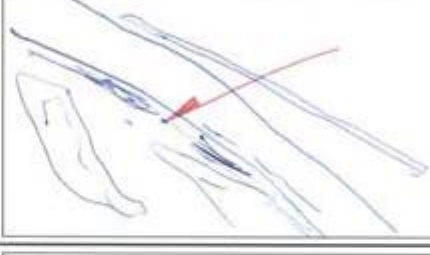

TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 3322</p> <p>Pasada: 3 Fotograma: 32</p> <p>Reseña: Centro de Mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 3311</p> <p>Pasada: 3 Fotograma: 31</p> <p>Reseña: Centro de Mata</p> <p>Cota: suelo</p>	
<p>Pto. Apoyo N°: 3312</p> <p>Pasada: 3 Fotograma: 31</p> <p>Reseña: Centro de Mata</p> <p>Cota: suelo</p>	
<p>Pto. Apoyo N°: 3301</p> <p>Pasada: 3 Fotograma: 30</p> <p>Reseña: Centro de mata</p> <p>Cota: suelo</p>	
<p>Pto. Apoyo N°: 3302</p> <p>Pasada: 3 Fotograma: 30</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	



TRABAJO:	Reseñas de Puntos de Apoyo
Pto. Apoyo N°: 3303 Pasada: 3 Fotograma: 30 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 3293 Pasada: 3 Fotograma: 29 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 3291 Pasada: 3 Fotograma: 29 Reseña: Centro de Mata Cota: Suelo	
Pto. Apoyo N°: 3292 Pasada: 3 Fotograma: 29 Reseña: Centro de mata Cota: Suelo	
Pto. Apoyo N°: 3282 Pasada: 3 Fotograma: 28 Reseña: Extremo de isleta Cota: Suelo	

TRABAJO:	Reseñas de Puntos de Apoyo
Pto. Apoyo N°: 3281 Pasada: 3 Fotograma: 28 Reseña: Centro de Mata Cota: Suelo	
Pto. Apoyo N°: 3271 Pasada: 3 Fotograma: 27 Reseña: Centro de mata en eje de camino Cota: Suelo	
Pto. Apoyo N°: 3272 Pasada: 3 Fotograma: 27 Reseña: Esquina de Murote Cota: Arriba	
Pto. Apoyo N°: 3262 Pasada: 3 Fotograma: 26 Reseña: Centro de Mata Cota: Suelo	
Pto. Apoyo N°: 3261 Pasada: 3 Fotograma: 26 Reseña: Esquina de Murote Cota: sobre murote	

TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 3251</p> <p>Pasada: 3    Fotograma: 25</p> <p>Reseña: Esquina de Plataforma</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 3252</p> <p>Pasada: 3    Fotograma: 25</p> <p>Reseña: Esquina de Alero</p> <p>Cota: Ariba</p>	
<p>Pto. Apoyo N°: 4582</p> <p>Pasada: 4    Fotograma: 58</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 4583</p> <p>Pasada: 4    Fotograma: 58</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°:</p> <p>Pasada:      Fotograma:</p> <p>Reseña:</p> <p>Cota:</p>	

TRABAJO:



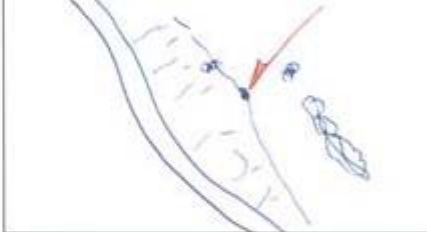


Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 4581</p> <p>Pasada: 4    Fotograma: 58</p> <p>Reseña: Esquina de MUVO</p> <p>Cota: arriba</p>	
<p>Pto. Apoyo N°: 4571</p> <p>Pasada: 4    Fotograma: 57</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 4561</p> <p>Pasada: 4    Fotograma: 56</p> <p>Reseña: Centro de mata en talud</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 4542</p> <p>Pasada: 4    Fotograma: 54</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 4541</p> <p>Pasada: 4    Fotograma: 54</p> <p>Reseña: Poste de Madrova</p> <p>Cota: Suelo</p>	



TRABAJO:

Reseñas de Puntos de Apoyo

<p>Pto. Apoyo N°: 4531</p> <p>Pasada: 4    Fotograma: 53</p> <p>Reseña: Centro de mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 4532</p> <p>Pasada: 4    Fotograma: 53</p> <p>Reseña: Centro de Mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°: 4531</p> <p>Pasada: 4    Fotograma: 55</p> <p>Reseña: Centro de Mata</p> <p>Cota: Suelo</p>	
<p>Pto. Apoyo N°:</p> <p>Pasada:      Fotograma:</p> <p>Reseña:</p> <p>Cota:</p>	
<p>Pto. Apoyo N°:</p> <p>Pasada:      Fotograma:</p> <p>Reseña:</p> <p>Cota:</p>	

## 7. CONTROL DE LOS TRABAJOS DE CAMPO Y CÁLCULO

### ***.- PAC de los trabajos de campo y cálculo***

Los trabajos que se han desarrollado para comprobar la calidad del campo y cálculo y dado que la metodología empleada han consistido en técnicas g.p.s. han sido los siguientes:

De los trabajos de campo:

- Contrastar que cada modelo estereoscópico contiene un mínimo de cinco puntos de apoyo distribuidos homogéneamente en aquellos modelos en que la naturaleza del terreno así lo ha permitido
- Comprobar que se ha elaborado un croquis de cada uno de los mismos
- Comprobar que los tiempos de registro así como los diversos "pdop" han sido los adecuados
- Comprobar que se ha enlazado con vértices de la Red Geodésica Nacional
- Comprobar que se ha enlazado con los tramos contiguos
- Comprobar que la altimetría tiene su origen en la Red NAP del IGN

De los trabajos de cálculo

- Comprobar que las coordenadas origen de los vértices son coincidentes con las facilitadas por el I.G.N.
- Comprobar que las cotas de partida son coincidentes con las facilitadas por el I.G.N.
- Comprobar que los residuos de los diversos cálculos se encuentran dentro de las tolerancias del P.P.T.
- Comprobar que los cálculos presentan coherencia y son comprensibles

## 8. RESTITUCIÓN FOTOGRAMÉTRICA

### 8.1. LIBRERÍA DE CÓDIGOS UTILIZADA

// TEMA 1. DIVISIONES ADMINISTRATIVAS

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// TRAMOS -----

010401 "LIMITE DE NACION"  
010301 "LIMITE DE AUTONOMIA"  
010201 "LIMITE DE PROVINCIA"  
010101 "LIMITE DE MUNICIPIO"  
017401 "PERIMETRO PARQUE NACIONAL"  
017501 "PERIMETRO PARQUE NATURAL"

// ENTIDADES SUPERFICIALES -----

015401 "CENTROIDE DE NACION"  
015301 "CENTROIDE DE AUTONOMIA"  
015201 "CENTROIDE DE PROVINCIA"  
016101 "CENTROIDE DE COMARCA"

// ENTIDADES PUNTUALES -----

018501 "MUGA"  
018507 "MOJON INTERMUNICIPAL"  
018506 "MOJON DE TRES TERMINOS"

// TEMA 2. RELIEVE

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// TRAMOS -----

020200 "CURVA DE NIVEL (FINA)"  
020400 "CURVA DE NIVEL (MAESTRA)"  
020600 "CURVA DE DEPRESION (FINA)"  
020800 "CURVA DE DEPRESION (MAESTRA)"  
021000 "CURVA OCULTA (FINA)"  
021200 "CURVA OCULTA (MAESTRA)"  
021151 "LINEA DE TALUD"  
021152 "LINEA DE DESMONTE"  
021153 "LINEA DE TERRAPLEN"  
021220 "MURO DE CONTENCIÓN"

// ENTIDADES PUNTUALES -----

028110 "SEÑAL DE NIVELACION"  
028112 "PUNTO ACOTADO"

// TEMA 3. HIDROGRAFIA.

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// TRAMOS -----

// MODO VIRTUAL -----

030190 "CURSO REPRESENTADO POR UNA SOLA LINEA"  
030192 "MARGEN DE RIO/ARROYO/CURSO FLUVIAL"  
030291 "CURSO FLUVIAL INTERMITENTE UNA SOLA LINEA"  
030292 "MARGEN DE CURSO FLUVIAL INTERMITENTE"  
030194 "EJE DE CURSO FLUVIAL"  
030394 "EJE DE ACEQUIA/CANAL"  
030392 "MARGEN DE ACEQUIA/CANAL"

// MODO NORMAL -----

030100 "CURSO REPRESENTADO POR UNA SOLA LINEA"  
030102 "MARGEN DE RIO/ARROYO/CURSO FLUVIAL"  
030201 "CURSO FLUVIAL INTERMITENTE UNA SOLA LINEA"  
030202 "MARGEN DE CURSO FLUVIAL INTERMITENTE"  
030104 "EJE DE CURSO FLUVIAL"  
030304 "EJE DE ACEQUIA/CANAL"  
030302 "MARGEN DE ACEQUIA/CANAL"  
032301 "LINEA DE COSTA"  
033301 "CONTORNO DE LAGO/LAGUNA"  
033401 "CONTORNO DE LAGO/LAGUNA INTERMITENTE"

// ENTIDADES SUPERFICIALES -----

035501 "CENTROIDE CORRESPONDIENTE A MAR/OCEANO"  
035101 "CENTROIDE CORRESPONDIENTE A RIO"  
035301 "CENTROIDE CORRESPONDIENTE A LAGO/LAGUNA"  
036301 "CENTROIDE CORRESPONDIENTE A CANAL"

// TRAMOS DE PERIMETROS/ENTIDADES PUNTUALES -----

// CODIGOS PERIMETRALES -----

037101 "POZO"  
037102 "FUENTE"  
037105 "ESTANQUE/PISCINA"  
037131 "DEPOSITO (A NIVEL DEL SUELO)"  
037138 "DEPOSITO ELEVADO"  
057107 "DIQUE DE EMBALSE O PRESA"

// CODIGOS PUNTUALES -----

038101 "POZO"  
038102 "FUENTE"  
038105 "ESTANQUE/PISCINA"

// TEMA 6. VIAS DE COMUNICACION

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// TRAMOS -----

// MODO VIRTUAL -----

060194 "EJE DE AUTOPISTA/AUTOVIA"  
060294 "EJE DE CARRETERA"  
060494 "EJE DE CAMINO VIA PECUARIA"  
060594 "SEÑAL HORIZONTAL"  
061194 "EJE DE FFCC (VIA SIMPLE)"  
061294 "EJE DE FFCC (VIA DOBLE)"  
060192 "MARGEN DE AUTOPISTA/AUTOVIA"  
060292 "MARGEN DE CARRETERA"  
060492 "MARGEN DE CAMINO VIA PECUARIA"  
060199 "TELEFERICO FUNICULAR"

// MODO NORMAL -----

060104 "EJE DE AUTOPISTA/AUTOVIA"  
060204 "EJE DE CARRETERA"  
060404 "EJE DE CAMINO VIA PECUARIA"  
060504 "SEÑAL HORIZONTAL"  
061104 "EJE DE FFCC (VIA SIMPLE)"  
061204 "EJE DE FFCC (VIA DOBLE)"  
060102 "MARGEN DE AUTOPISTA/AUTOVIA"  
060202 "MARGEN DE CARRETERA"  
060402 "MARGEN DE CAMINO VIA PECUARIA"  
060109 "TELEFERICO FUNICULAR"  
067121 "PERIMETRO DE PUENTE"  
067123 "PERIMETRO DE ALCANTARILLA"

// ENTIDADES PUNTUALES -----

068301 "BALIZA LUMINOSA"  
068401 "HITO KILOMETRICO AUTOPISTAS/CARRETERAS"  
068411 "HITO KILOMETRICO FFCC"  
068412 "CAMBIO DE AGUJAS EN FFCC"

// TEMA 10. RED GEODESICA Y TOPOGRAFICA

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// ENTIDADES PUNTUALES -----

108100 "VERTICE GEODESICO SIN ESPECIFICAR"  
 108101 "VERTICE GEODESICO (PRIMER ORDEN)"  
 108102 "VERTICE GEODESICO (SEGUNDO ORDEN)"  
 108103 "VERTICE GEODESICO (TERCER ORDEN)"  
 108104 "VERTICE TOPOGRAFICO"  
 108201 "PUNTO DE APOYO.PUNTO DE POLIGONAL"  
 // TEMA 11.DELIMITACIONES CATASTRALES URBANISTICAS Y ESTADISTICAS \*\*\*\*\*

// TRAMOS -----

110100 "LIMITE ENTRE CLASES DE SUELO"  
 110201 "LIMITE SUELO DE PATRIMONIO PUBLICO"  
 110302 "ALINEACION EXTERIOR DE MANZANA"  
 110303 "LIMITE ENTRE ZONAS EN INTERIOR DE MANZANA"  
 110304 "ALINEACION INTERIOR O EN FONDO DE MANZANA"  
 110305 "LINEA DE PARCELA EDIFICABLE"  
 110308 "DELIMITACION DE AMBITOS DE EJECUCION"  
 110309 "EQUIDISTRIBUCION O AREA DE REPARTO"  
 110310 "SEPARACION DE ALTURAS EDIFICABLES"  
 110801 "LIMITE ZONAS ENTRE S.U.N.P. Y S.N.U."  
 111101 "LIMITE SUELO SUJETO"  
 111600 "LINEA DE ESTRUCTURA ORGANICA"  
 111701 "LINEA PLAN TERRITORIAL SUPRAMUNICIPAL"  
 111704 "LINEA DE PLAN ESPECIAL"  
 111705 "LINEA DE ESTUDIO DE DETALLE"  
 111706 "LINEA DE PROYECTO DE URBANIZACION"  
 111707 "LINEA PROYECTO DE EQUIDISTRIBUCION"  
 111708 "LINEA DE PLAN PARCIAL.SECTOR"  
 111709 "LINEA DE PROGRAMA DE ACTUACION URBANISTICA"  
 112201 "LIMITE DE DISTRITO MUNICIPAL"  
 112301 "LIMITE DE BARRIO"  
 112501 "LIMITE DE NUCLEOS DE POBLACION CENSAL"  
 112601 "LIMITE DE DISTRITO CENSAL"  
 112701 "LIMITE DE SECCION CENSAL"  
 113801 "MARGEN CAMINO DE HUERTA (P.G.O.U. MURCIA)"

// ENTIDADES SUPERFICIALES -----

115600 "CENTROIDE DE ESTRUCTURA ORGANICA"  
 115701 "CENTROIDE DE PLAN TERRITORIAL SUPRAMUNICIPAL"  
 115704 "CENTROIDE DE PLAN ESPECIAL"  
 115705 "CENTROIDE DE ESTUDIO DE DETALLE"  
 115706 "CENTROIDE DE PROYECTO DE URBANIZACION"  
 115707 "CENTROIDE DE EQUIDISTRIBUCION"  
 116201 "CENTROIDE DE DISTRITO MUNICIPAL"  
 116301 "CENTROIDE DE BARRIO"  
 116501 "CENTROIDE DE NUCLEO URBANO CENSAL"  
 116601 "CENTROIDE DE DISTRITO CENSAL"  
 116701 "CENTROIDE DE SECCION CENSAL"  
 115101 "CENTROIDE DE SUELO SUJETO A CTU (DIGIT. DE RUSTICA)"  
 114100 "CENTROIDE DE SUELO URBANO"  
 114103 "CENTROIDE DE SUELO URBANO PROGRAMADO 1§ CUATRIENIO"  
 114104 "CENTROIDE DE SUELO URBANO PROGRAMADO 2§ CUATRIENIO"  
 114105 "CENTROIDE DE SUELO URBANO NO PROGRAMADO"  
 114106 "CENTROIDE DE SUELO NO URBANIZABLE"  
 114201 "AREA DE REPARTO EN SUELO URBANIZABLE PROGRAMADO"  
 114202 "AREAS DE TANTEO Y RETRACTO"  
 114203 "SUELO PUBLICO A OBTENER"  
 114205 "AREAS DE RESERVA"  
 114301 "CENTROIDE DE ZONA DE ORDENACION"  
 114302 "CENTROIDE DE SUELO EDIFICABLE"  
 114304 "CENTROIDE DE SUELO NO EDIFICABLE EN FONDO DE MANZANA"  
 114305 "CENTROIDE DE ZONA DE RETRANQUEO"  
 114308 "CENTROIDE DE UNIDAD DE EJECUCION SISTEMATICA"  
 114309 "CENTROIDE DE AREA DE REPARTO EN SUELO URBANO"  
 114310 "CENTROIDE DE UNIDAD DE ACTUACION ASISTEMATICA"

114311 "CENTROIDE DE PLAN PARCIAL.SECTOR (EN SUELO URBANO PROGRAMADO)"  
 114312 "CENTROIDE DE AREA DE REPARTO EN S.U.N.P. O EN P.A.U"  
 114313 "CENTROIDE DE ZONAS DE REGULACION ESPECIFICA"  
 114401 "CENTROIDE DE VIARIO O DE SISTEMA GENERAL"  
 114801 "CENTROIDE DE ZONA DE S.U.N.P."  
 114802 "CENTROIDE DE ZONA DE S.N.U."

// ENTIDADES PUNTUALES -----

118201 "PUNTO PERMANENTE DE LIMITE DE SUELO SUJETO"  
 // TEMA 12.INFORMACION CATASTRAL RUSTICA \*\*\*\*\*

// TRAMOS -----

// MODO VIRTUAL -----

120290 "LIMITE VIRTUAL (SOLO EN DESCUENTOS)"  
 // MODO NORMAL -----  
 120100 "LIM.POL.MATERIALIZACION NO CLASIFICADA O INDETERMINADA"  
 120101 "LIM.POL.EDIFICIO"  
 120102 "LIM.POL.MURO"  
 120103 "LIM.POL.VALLA"  
 120104 "LIM.POL.ALAMBRADA"  
 120105 "LIM.POL.SETO"  
 120200 "(PARCELA)LIM.PAR.MATERIALIZACION NO CLASIFICADA O INDETERMINADA"  
 120201 "LIM.PAR.EDIFICIO "  
 120202 "LIM.PAR.MURO "  
 120203 "LIM.PAR.VALLA "  
 120204 "LIM.PAR.ALAMBRADA"  
 120205 "LIM.PAR.SETO "  
 120500 "LIM.SUBPAR.MATERIALIZACION NO CLASIFICADA O INDETERMINADA"  
 120501 "LIM.SUBPAR.EDIFICIO "  
 120502 "LIM.SUBPAR.MURO "  
 120503 "LIM.SUBPAR.VALLA "  
 120504 "LIM.SUBPAR.ALAMBRADA "  
 120505 "LIM.SUBPAR.SETO "  
 120331 "LINEA CONTINUA INDETERMINADA (RUSTICA)"  
 120332 "LINEA A TRAZOS INDETERMINADA (RUSTICA)"  
 123201 "BORDE DE ORTOFOTO"  
 123301 "BORDE DE HOJA CARTOGRAFICA RUSTICA"  
 1201?? "LIMITE DE POLIGONO RUSTICO"  
 1202?? "LIMITE DE PARCELA/DESCUENTO RUSTICOS"  
 1205?? "LIMITE DE SUBPARCELA RUSTICA"

// ENTIDADES SUPERFICIALES -----

125101 "CENTROIDE DE POLIGONO RUSTICO"  
 125201 "CENTROIDE DE PARCELA/DESCUENTO RUSTICOS"  
 125501 "CENTROIDE DE SUBPARCELA RUSTICA (CULTIVO/IMPR.)"  
 125502 "CENTROIDE DE SUBPARCELA RUSTICA (CONST.AGRICOLA)"  
 124201 "CENTROIDE DE ORTOFOTOMAPA"  
 124301 "CENTROIDE DE HOJA CARTOGRAFICA DE RUSTICA"

// TEMA 14.INFORMACION CATASTRAL URBANA \*\*\*\*\*



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// TRAMOS -----
140100 "LIM.MAN.MATERIALIZACION NO CLASIFICADA O INDETERMINADA"
140101 "MANZA.EDIFICACION "
140102 "LIM.MAN.MURO "
140103 "LIM.MAN.VALLA"
140104 "LIM.MAN.ALAMBRADA"
140105 "LIM.MAN.SETO "
140200 "LIM.PAR.URB.MATERIALIZACION NO CLASIFICADA O INDETERMINADA"
140201 "LIM.PAR.URB.EDIFICACION "
140202 "LIM.PAR.URB.MURO "
140203 "LIM.PAR.URB.VALLA "
140204 "LIM.PAR.URB.ALAMBRADA "
140205 "LIM.PAR.URB.SETO "
140500 "LIM.SUBPAR.URB.MATERIALIZACION NO CLASIFICADA O INDETERMINADA"
140501 "(PATIO) LIM.SUBPAR.URB.EDIFICACION"
140502 "LIM.SUBPAR.URB.MURO"
140503 "LIM.SUBPAR.URB.VALLA "
140504 "LIM.SUBPAR.URB.ALAMBRADA"
140505 "LIM.SUBPAR.URB.SETO"
140302 "(MEDIANERIA)LIMITE/SEPARACION DE ALTURAS EDIFICADAS"
140402 "LIMITE BAJO RASANTE (NO COINCIDENTE CON OTROS)"
143301 "BORDE DE HOJA CARTOGRAFICA URBANA (VALIDO EN EXPLOTACION CGC)"
143501 "BORDE DE BLOQUE (SOLO VALIDO EN EXPLOTACION CGC)"
1401?? "LIMITE DE MANZANA URBANA"
1402?? "LIMITE DE PARCELA URBANA"
1405?? "LIMITE DE SUBPARCELA URBANA"
// ENTIDADES SUPERFICIALES -----
145101 "CENTROIDE DE MANZANA URBANA"
145102 "CENTROIDE DE MANZANA INFORMATI"
145201 "CENTROIDE DE PARCELA URBANA"
145202 "CENTROIDE DE PARCELA INFORMATI"
145501 "CENTROIDE DE SUBPARCELA URBANA"
144301 "CENTROIDE DE HOJA CARTOGRAFICA DE URBANA"
// TEMA 16.INFRAESTRUCTURAS MOBILIARIO *****
// TRAMOS -----
// MODO VIRTUAL -----
161191 "EJE DE RED VIARIA"
160291 "LINEA ELECTRICA"
160292 "LINEA TELEFONICA/TELEGRAFICA"
160293 "CONDUCCION DE GAS"
160294 "CONDUCCION DE AGUAS"
160295 "CONDUCCION DE AGUAS RESIDUALES"
160299 "OTRAS CONDUCCIONES"

160300 "LINEA DE ELEMENTO NO CLASIFICADO O INDETERMINADO"
160301 "(EDIFICACION)LINEA NO CLASIF.O INDE."
160302 "(MURO o TAPIA) NO CLASIF.O INDE."
160303 "(VALLA)LINEA NO CLASIF.O INDE."
160304 "(ALAMBRADA)LINEA NO CLASIF.O INDE."
160305 "(SETO)LINEA NO CLASIF.O INDE."
160306 "EDIF.CONST.LINEA NO CLASIFICADA O INDETERMINADA"
160307 "EDIF.RUINA.LINEA NO CLASIFICADA O INDETERMINADA"
160308 "EDIFICIO ABAJO EN 3D"
160309 "EDIFICIO SINGULAR"
160132 "LINEA URBANA INDETERMINADA (A TRAZOS)"
160101 "LINEA DE ACERA"
161101 "EJE DE RED VIARIA"
160201 "LINEA ELECTRICA"
160401 "LINEA ELECTRICA MEDIA TENSION"
160202 "LINEA TELEFONICA/TELEGRAFICA"
160203 "CONDUCCION DE GAS"
160204 "CONDUCCION DE AGUAS"
160205 "CONDUCCION DE AGUAS RESIDUALES"
160209 "OTRAS CONDUCCIONES"
160281 "LINEA ELECTRICA (BAJO RASANTE)"
160282 "LINEA TELEFONICA/TELEGRAFICA (BAJO RASANTE)"
160283 "CONDUCCION DE GAS (BAJO RASANTE)"
160284 "CONDUCCION DE AGUA POTABLE (BAJO RASANTE)"
160285 "CONDUCCION DE AGUAS RESIDUALES (BAJO RASANTE)"
160289 "OTRAS CONDUCCIONES (BAJO RASANTE)"
167203 "LINEA/PERIMETRO DE URBANIZACION"
167204 "LINEA/PERIMETRO DE ZONA DEPORTIVA"
167205 "LINEA/PERIMETRO DE ZONA INDUSTRIAL"
167206 "LINEA/PERIMETRO DE ZONA MILITAR"
167208 "LINEA/PERIMETRO DE ZONA PORTUARIA"
167210 "LINEA/PERIMETRO DE ZONA ESCOLAR/UNIVERSITARIA"
167211 "LINEA/PERIMETRO DE ZONA COMERCIAL"
167212 "LINEA/PERIMETRO DE ZONA MARITIMO/TERRESTRE (NO ES LINEA DE COSTA)"
167201 "LINEA/PERIMETRO DE ZONA VERDE"
167202 "LINEA/PERIMETRO DE ZONA ARBOLADA"
1603?? "A MOBILIARIO"
// ENTIDADES SUPERFICIALES -----
164221 "CENTROIDE DE ESPACIO VERDE"
164222 "CENTROIDE DE ZONA ARBOLADA"

// MODO NORMAL -----
// TRAMOS DE PERIMETROS/ENTIDADES PUNTUALES -----

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\\ CODIGOS PERIMETRALES -----
167102 "FUENTE"
167103 "MONUMENTO"
167104 "ESCALERA"
167105 "BANCO"
167106 "ACCESO A PASO SUBTERRANEO"
167111 "TRANSFORMADOR DE RED ELECTRICA"
167113 "TORRE DE CONDUCCION ELECTRICA"
167116 "FAROLA"
167124 "ANTENA REPETIDORA"
167140 "REJILLA DE VENTILACION"
167141 "REGISTRO INDETERMINADO"
167148 "SEÑAL DE INFORMACION/PUBLICIDAD"
167151 "MARQUESINA"
167154 "ALCORQUE"
167156 "BARANDILLA"
167157 "BIONDAS • QUITAMIEDOS"
167161 "KIOSKO PRENSA"
167162 "KIOSKO HOSTELERIA"
167163 "KIOSKO FLORES"
167164 "KIOSKO ONCE"
167166 "CABINA TELEFONICA"
167167 "CABINA/KIOSKO INDETERMINADO"
// ENTIDADES PUNTUALES -----
168102 "FUENTE"
168103 "MONUMENTO"
168106 "ACCESO A PASO SUBTERRANEO"
168112 "REGISTRO DE RED ELECTRICA"
168113 "TORRE DE CONDUCCION ELECTRICA"
168114 "POSTE DE CONDUCCION ELECTRICA"
168115 "FAROLA ALUMBRADO (EN FACHADA)"
168116 "FAROLA"
168117 "FAROLA MULTIPLE"
168122 "SEMAFORO (POSTE)"
168121 "SEMAFORO SUSPENDIDO"
168123 "REGISTRO DE GRUPO DE SEMAFOROS"
168124 "ANTENA REPETIDORA"
168127 "REGISTRO DE RED TELEFONICA"
168128 "REGISTRO DE CONDUCCION DE GAS"
168131 "REGISTRO DE RED ABASTECIMIENTO DE AGUAS"
168132 "BOCA DE RIEGO"
168133 "BOCA EXTINCION DE INCENDIOS/TOMA HIDRANTE"
168136 "REGISTRO RED ALCANTARILLADO"
168137 "SUMIDERO/ALBAÑAL"
168138 "REGISTRO INDETERMINADO"
168139 "REGISTRO ALCANTARILLADO CON SUMIDERO"
168140 "REJILLA DE VENTILACION"
168141 "PUNTO DE ACCESO A VIVIENDA"
168148 "SEÑAL DE INFORMACION/PUBLICIDAD"
168151 "MARQUESINA"
168152 "SURTIDOR"
168153 "ARBOL AISLADO"
168154 "ALCORQUE"
168155 "BUZON"
168156 "PALMERA"
168157 "PAPELERA"
168168 "ACCESO A GARAJES/APARCAMIENTOS PUBLICOS"
  
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189100 "OTROS TEXTOS DE DIVISIONES ADMINISTRATIVAS"
189101 "TEXTO DE PROVINCIA"
189102 "TEXTO DE TERMINO MUNICIPAL"
189103 "TEXTO DE CASCO URBANO"
189104 "TEXTO DE DISTRITO"
189105 "TEXTO DE BARRIO"
189200 "OTROS TEXTOS DE TOPONIMOS Y DELIMITACIONES CATASTRALES"
189201 "TEXTO DE URBANIZACIONES"
189202 "TEXTO DE ZONAS DE USO DIFERENCIADO"
189203 "TEXTO DE PARAJES"
189204 "TEXTO DE COMARCAS"
189205 "TEXTO DE CALIFICACIONES DEL SUELO"
189300 "OTROS TEXTOS DE INFORMACION URBANA"
189301 "TEXTO DE VIAS PUBLICAS"
189302 "TEXTO ASOCIADO A ELEMENTOS DE INFRAESTRUCTURA URBANA"
189303 "TEXTO ASOCIADO A ELEMENTOS DE INFRAESTRUCTURA RUSTICA (POZO NORIA ..)"
189401 "TEXTO DE NUMERO DE POLICIA PARCELA"
189500 "OTROS TEXTOS DE EDIFICACIONES"
189501 "TEXTOS DE EDIFICACIONES SINGULARES"
189502 "TEXTOS DE DIFICACIONES EN RUINAS CONSTRUCCION"
189600 "OTROS TEXTOS DE HIDROGRAFIA"
189601 "TEXTO DE MAR"
189602 "TEXTO DE RIO"
189603 "TEXTO DE ARROYO"
189604 "TEXTO DE EMBALSE LAGO PANTANO"
189605 "TEXTO DE CANAL"
189606 "TEXTO DE DENOMINACION DE PLAYA"
189700 "OTROS TEXTOS DE VEGETACION Y ACCIDENTES GEOGRAFICOS"
189701 "TEXTO ACCIDENTE GEOGRAFICO EXTENDIDO (SIERRA LOMA ..)"
189702 "TEXTO DE ACCIDENTE GEOGRAFICO PUNTUAL (PICO COLLADO CERRO...)"
189703 "TEXTO DE COTA DE CURVA DE NIVEL"
189704 "TEXTO DE VEGETACION/CULTIVO"
189800 "OTROS TEXTOS DE VIAS DE COMUNICACION"
189801 "TEXTO DE AUTOPISTA AUTOVIA"
189802 "TEXTO DE CARRETERA"
189803 "TEXTO DE CAMINO"
189804 "TEXTO DE FERROCARRIL"
189900 "OTROS TEXTOS DE LINEAS DE CONDUCCION"
189901 "TEXTO DE CONDUCCION ELECTRICA"
189902 "TEXTO DE CONDUCCION TELEFONICA"
189903 "TEXTO DE CONDUCCION DE GAS"
189904 "TEXTO DE CONDUCCION DE AGUA POTABLE"
189905 "TEXTO DE CONDUCCION DE AGUAS RESIDUALES"
// ***** CODIGOS EXTRACATASTRALES SOLO USO INTERNO *****
  
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// TEMA 18.TEXTOS Y ROTULACION (CARTOGRAFIA URBANA) \*\*\*\*\*

// CODIGOS PARA VISUALIZAR GENERADOS POR DEFECTO EN PROGRAMAS DE DIGI \*\*\*\*\*

HOJAS "MARCO DE HOJAS"  
1 "LIMITE DE TRABAJO"  
COTAS "COTAS DE PUNTOS DE CARGA\_P"  
PUNTOS "NUMERO DE PUNTOS DE CARGA\_P"  
SOLAPE "SOLAPE ENTRE PLANOS DE GASODUCTO"  
ERRPOL "POLIG.SIN AREA"  
HORIZO "PA LINEAS DISCONTINUAS DE CARRETERA"  
CEBRA "PA LINEAS DE PASOS DE CEBRA"  
ERRZ "ETIQUETA DUPLICADA"  
ERROR2 "ERROR COLGANTE"  
ERROR3 "ERROR DUPLICADA"  
nuevo "DE DGN ES MALO"  
TPOL "NUMERO DE POLICIA INTERIOR"  
TVIA "NUMERO DE EJE VIA INTERIOR"  
// CODIGOS PARA UTILIZAR DISTINTAS FONTS \*\*\*\*\*  
FONT0 "TEXTO TIPO DE LETRA 0"  
FONT1 "TEXTO TIPO DE LETRA 1"  
FONT2 "TEXTO TIPO DE LETRA 2"  
FONT3 "TEXTO TIPO DE LETRA 3"  
FONT4 "TEXTO TIPO DE LETRA 4"  
FONT5 "TEXTO TIPO DE LETRA 5"  
FONT6 "TEXTO TIPO DE LETRA 6"  
FONT7 "TEXTO TIPO DE LETRA 7"  
FONT8 "TEXTO TIPO DE LETRA 8"  
// CODIGOS PARA UTILIZAR DISTINTOS COLORES Y GRUESOS DE PLUMA EN EL PLOTTER \*\*\*\*\*  
NEGFIN "LINEA NEGRA FINA PLUMA 1"  
AZUFIN "LINEA AZUL FINA PLUMA 2"  
VERFIN "LINEA VERDE FINA PLUMA 3"  
ROJFIN "LINEA ROJA FINA PLUMA 4"  
SIEGRU "LINEA SIENA GRUESA PLUMA 5"  
ROJGRU "LINEA ROJA GRUESA PLUMA 6"  
SIEFIN "LINEA SIENA FINA PLUMA 7"  
AMARIF "LINEA AMARILLA FINA PLUMA 9"  
NEGGRU "LINEA NEGRA GRUESA PLUMA 8"

## 8.2.PARTES DE ORIENTACIÓN

### RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

736730.728 4708595.671 1901.451  
 9.119728114264333  
 -0.847656447642085 -0.530525826504786 -0.004571015446720 Omega: 0.0060  
 0.530518704944539 -0.847668767065089 0.002750462928531 Phi: -0.3396  
 -0.005333898646386 -0.000093561559706 0.999985770284490 Kappa: -164.3989

### RESULTADOS DE LA ORIENTACIÓN EXTERNA

#### IMAGEN IZQUIERDA

736730.728 4708595.671 1901.451  
 -0.847656447642085 0.530518704944539 -0.005333898646386 Omega: -0.1751  
 -0.530525826504786 -0.847668767065089 -0.000093561559706 Phi: -0.2910  
 -0.004571015446720 0.002750462928531 0.999985770284490 Kappa: 164.3985

#### IMAGEN DERECHA

736467.699 4708755.224 1893.872  
 -0.840842403645437 0.541175813667125 -0.010620307598608 Omega: -0.4658  
 -0.541222060438281 -0.840877635974811 0.001866175863490 Phi: -0.5042  
 -0.007920449905473 0.007317104559690 0.999941861537039 Kappa: 163.5911

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2082	736929.24	4708892.59	763.94	-0.512	-39.125	-124.731	0.056	0.066	-0.076
1012	736902.27	4708647.26	772.79	-12.286	-14.769	-123.834	-0.049	-0.029	0.047
2072	736678.58	4709116.13	764.38	35.788	-45.328	-124.497	0.014	0.029	-0.010
1021	736571.48	4708979.79	778.33	37.806	-26.426	-122.952	0.026	0.004	-0.033
1022	736777.70	4709275.87	766.91	35.864	-65.941	-124.222	-0.007	0.037	-0.002
1023	736750.83	4709124.27	763.27	29.550	-50.303	-124.661	-0.039	-0.108	0.074

EM.= 0.062

Nombre del modelo: C:\Trabajos\03-2007\T07-17\1001-1002.abs  
 Fecha: 15/3/2007 03:41

### RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

736468.770 4708754.565 1894.084  
 8.388346377448830  
 -0.840864118503611 -0.541201738053295 -0.006943553934260 Omega: -0.1242  
 0.541162682559497 -0.840890525528734 0.006787862772516 Phi: -0.6056  
 -0.009512371846970 0.001950077973175 0.999952854877540 Kappa: -163.5950

### RESULTADOS DE LA ORIENTACIÓN EXTERNA

#### IMAGEN IZQUIERDA

736468.770 4708754.565 1894.084  
 -0.840864118503611 0.541162682559497 -0.009512371846970 Omega: -0.4321  
 -0.541201738053295 -0.840890525528734 0.001950077973175 Phi: -0.4420  
 -0.006943553934260 0.006787862772516 0.999952854877540 Kappa: 163.5929

#### IMAGEN DERECHA

736206.749 4708913.551 1896.009  
 -0.836169693984344 0.548468890835303 -0.001455557632661 Omega: 0.0328  
 -0.548466884074199 -0.836170802357938 -0.001570464269054 Phi: -0.1323  
 -0.002078445589325 -0.000514849467892 0.999997707494351 Kappa: 163.0422

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2062	736364.44	4709221.98	841.08	41.801	-40.367	-125.060	-0.033	0.045	-0.009
1021	736571.48	4708979.79	778.33	5.500	-29.459	-132.907	0.025	0.031	-0.017
2072	736678.58	4709116.13	764.38	3.576	-50.045	-134.557	0.008	-0.003	0.053
1022	736777.70	4709275.87	766.91	3.940	-72.453	-134.205	-0.022	-0.003	0.026
1031	736224.93	4708961.72	785.27	39.068	-5.293	-131.810	0.017	-0.019	0.010
1023	736750.83	4709124.27	763.27	-3.137	-55.527	-134.728	0.005	-0.051	-0.064

EM.= 0.039

Nombre del modelo: C:\Trabajos\03-2007\T07-17\1002-1003.abs  
 Fecha: 15/3/2007 03:42

### RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

736206.821 4708914.246 1895.977  
 8.887657658741016  
 -0.836249555907616 -0.548345344668790 -0.002015744126169 Omega: 0.0627  
 0.548346211204543 -0.836251404825743 0.000143473323392 Phi: -0.1123  
 -0.001764341786244 -0.000985346151372 0.999997958093427 Kappa: -163.0515

### RESULTADOS DE LA ORIENTACIÓN EXTERNA

#### IMAGEN IZQUIERDA

736206.821 4708914.246 1895.977  
 -0.836249555907616 0.548346211204543 -0.001764341786244 Omega: -0.0091  
 -0.548345344668790 -0.836251404825743 -0.000985346151372 Phi: -0.1283  
 -0.002015744126169 0.000143473323392 0.999997958093427 Kappa: 163.0515

#### IMAGEN DERECHA

735944.044 4709074.304 1902.010  
 -0.830689700241004 0.556609851177293 0.011836193894312 Omega: 0.5149  
 -0.556665686440425 -0.830734648272796 -0.001804909660828 Phi: 0.5620  
 0.008828105873978 -0.008088122864135 0.999928320838655 Kappa: 162.4144

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
1042	735925.35	4708968.05	809.60	30.022	12.422	-122.178	0.013	-0.025	0.068
2062	736364.44	4709221.98	841.08	4.365	-38.568	-118.725	-0.031	-0.042	0.022
2052	736096.35	4709312.13	855.93	35.148	-30.501	-116.991	0.014	0.046	0.009
1031	736224.93	4708961.72	785.27	1.447	-5.458	-124.969	0.019	0.016	-0.045
1041	735913.52	4709122.63	865.20	40.656	-1.398	-115.902	-0.016	0.004	-0.054

EM.= 0.046

Nombre del modelo: G:\T07-17\1003-1004.abs  
 Fecha: 12/3/2007 19:44

### RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

736456.652 4709894.662 1877.704  
 9.108971043543363  
 0.826087652234609 0.563418557307082 0.011777950055858 Omega: 1.5193  
 -0.563538022446170 0.825826911651685 0.020852080215161 Phi: 0.1287  
 0.002021900831461 -0.023862968672097 0.9999713194192806 Kappa: 38.1121

### RESULTADOS DE LA ORIENTACIÓN EXTERNA

#### IMAGEN IZQUIERDA

736456.652 4709894.662 1877.704  
 0.826087652234609 -0.563538022446170 0.002021900831461 Omega: -1.3277  
 0.563418557307082 0.825826911651685 -0.023862968672097 Phi: 0.7498  
 0.011777950055858 0.020852080215161 0.9999713194192806 Kappa: -38.1058

#### IMAGEN DERECHA

736718.636 4709731.015 1871.625  
 0.830396945124771 -0.557147355403181 -0.005266677765991 Omega: -0.9190  
 0.556941767951621 0.830288215956227 -0.020912808399421 Phi: 1.0202  
 0.016024376380133 0.014432699382636 0.9999767431230963 Kappa: -37.6106

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2061	736749.19	4709900.39	762.57	25.927	21.524	-121.996	0.068	0.075	-0.001
5081	736758.38	4709892.99	762.06	27.220	21.444	-122.057	-0.056	-0.068	0.006
2052	736096.35	4709312.13	855.93	3.136	-72.422	-113.940	0.001	-0.000	0.005
2051	736604.42	4710127.03	774.76	-1.219	33.097	-120.325	-0.009	-0.007	-0.004
2062	736364.44	4709221.98	841.08	33.024	-63.974	-115.428	-0.003	0.001	-0.005

EM.= 0.048

Nombre del modelo: G:\T07-17\2005-2006.abs  
 Fecha: 12/3/2007 19:44

### RESULTADOS DE LA ORIENTACIÓN ABSOLUTA



**DOCUMENTO TÉCNICO PARA INFORMACIÓN PÚBLICA**

**Proyecto de Trazado. Acondicionamiento de la Carretera N-260. Eje Pirenaico, P.K. 449,600 al P.K. 463,600. Tramo: Túnel de Balupor – Fiscal.**

736718.997 4709731.194 1871.700  
 9.216728341602357  
 0.830367869290263 0.556976837109252 0.016309646658403 Omega: 1.3478  
 -0.557189053883519 0.830258176609944 0.014550546543692 Phi: -0.3461  
 -0.005436900103642 -0.021169862921264 0.999761109976357 Kappa: 37.6247

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

736718.997 4709731.194 1871.700  
 0.830367869290263 -0.557189053883519 -0.005436900103642 Omega: -0.9265  
 0.556976837109252 0.830258176609944 -0.021169862921264 Phi: 1.0384  
 0.016309646658403 0.014550546543692 0.999761109976357 Kappa: -37.6134

IMAGEN DERECHA

736983.901 4709575.686 1868.702  
 0.839347637746695 -0.543571818687676 -0.005022045162524 Omega: -1.5010  
 0.543179711385614 0.839031647333738 -0.031332026928910 Phi: 1.3526  
 0.021244861686616 0.023570589746651 0.999496414776417 Kappa: -36.5653

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2061	736749.19	4709900.39	762.57	-6.854	19.612	-119.989	0.011	0.013	-0.007
5081	736758.38	4709892.99	762.06	-5.580	19.508	-120.040	-0.015	-0.038	-0.011
2062	736364.44	4709221.98	841.08	-0.550	-64.931	-113.228	-0.007	0.019	0.023
2071	736942.65	4709537.38	759.56	32.523	-1.392	-120.550	0.007	0.028	0.030
2072	736678.58	4709116.13	764.38	34.194	-55.303	-121.153	0.003	-0.023	-0.035

EM.= 0.029

Nombre del modelo: G:\T07-17\2006-2007.abs

Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

736984.788 4709576.327 1868.248  
 9.315529251863945  
 0.839284465511331 0.543247682334289 0.021989579117925 Omega: 2.0522  
 -0.543666473781568 0.838953614784837 0.024157763252657 Phi: -0.3390  
 -0.005324587991194 -0.032230232358439 0.999466288018183 Kappa: 36.5935

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

736984.788 4709576.327 1868.248  
 0.839284465511331 -0.543666473781568 -0.005324587991194 Omega: -1.5385  
 0.543247682334289 0.838953614784837 -0.032230232358439 Phi: 1.4000  
 0.021989579117925 0.024157763252657 0.999466288018183 Kappa: -36.5711

IMAGEN DERECHA

737249.314 4709423.453 1867.213  
 0.844817199735586 -0.534976756307505 -0.009152553830627 Omega: -0.8175  
 0.534718981000607 0.844769226981247 -0.020989628466897 Phi: 1.2072  
 0.018960759177723 0.012838354887028 0.999737798752852 Kappa: -35.9237

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2082	736929.24	4708892.59	763.94	35.533	-61.001	-120.389	0.001	0.053	0.021
2081	737213.52	4709298.71	764.84	37.430	-7.844	-118.563	0.065	-0.069	-0.023
2071	736942.65	4709537.38	759.56	-0.882	-2.127	-119.146	-0.072	0.021	-0.051
2072	736678.58	4709116.13	764.38	-0.101	-55.483	-120.355	0.018	0.004	0.038
1021	736571.48	4708979.79	778.33	-1.799	-74.055	-119.450	-0.008	-0.005	-0.094
1022	736777.70	4709275.87	766.91	-0.493	-35.325	-119.443	-0.005	-0.004	0.110

EM.= 0.063

Nombre del modelo: G:\T07-17\2007-2008.abs

Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

737249.344 4709423.315 1867.488  
 9.199738093782749  
 0.844699115727150 0.534910363359326 0.018823045995933 Omega: 1.3259

-0.535164243806461 0.844652131369413 0.012728280487452 Phi: -0.5787  
 -0.009090436778847 -0.020824988449026 0.999741808576228 Kappa: 35.9517

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

737249.344 4709423.315 1867.488  
 0.844699115727150 -0.535164243806461 -0.009090436778847 Omega: -0.8105  
 0.534910363359326 0.844652131369413 -0.020824988449026 Phi: 1.1984  
 0.018823045995933 0.012728280487452 0.999741808576228 Kappa: -35.9381

IMAGEN DERECHA

737512.977 4709264.551 1866.276  
 0.845810827672912 -0.533309967193403 -0.013583912670343 Omega: -0.0121  
 0.533237583426626 0.845919879673090 -0.008788446688507 Phi: 1.0300  
 0.016177867986715 0.000189910601753 0.999869111694809 Kappa: -35.8102

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2091	737406.94	4709230.08	773.75	26.783	-6.106	-118.805	0.087	-0.016	0.024
2092	737065.01	4708672.68	767.14	27.829	-77.150	-120.992	0.018	0.046	0.004
2081	737213.52	4709298.71	764.84	5.055	-11.021	-120.070	-0.084	-0.022	-0.014
2082	736929.24	4708892.59	763.94	2.575	-64.839	-121.314	-0.033	-0.008	0.010
2093	737232.90	4708955.04	754.46	26.829	-41.431	-121.632	0.011	0.001	-0.023

EM.= 0.051

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2008-2009.abs

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RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

737513.489 4709264.830 1865.940  
 9.117176234871897  
 0.845706958849945 0.533390642344267 0.016557850474884 Omega: 0.5892  
 -0.533470693287430 0.845818402945849 0.000498639712189 Phi: -0.8747  
 -0.013738964888500 -0.009254831046743 0.999862785059074 Kappa: 35.8263

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

737513.489 4709264.830 1865.940  
 0.845706958849945 -0.533470693287430 -0.013738964888500 Omega: -0.0317  
 0.533390642344267 0.845818402945849 -0.009254831046743 Phi: 1.0542  
 0.016557850474884 0.000498639712189 0.999862785059074 Kappa: -35.8220

IMAGEN DERECHA

737775.267 4709103.378 1860.892  
 0.848508295299580 -0.528857760907001 -0.018524079902492 Omega: 0.4696  
 0.528901478109768 0.848678429457567 -0.002854790139628 Phi: 1.0970  
 0.017230764959896 -0.007375100126239 0.999824338890099 Kappa: -35.4851

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2102	737474.18	4708535.68	771.47	40.666	-68.832	-120.133	0.003	-0.017	-0.060
2091	737406.94	4709230.08	773.75	-6.200	-8.349	-119.970	-0.031	0.021	-0.035
2101	737749.06	4709035.41	761.79	36.934	-6.381	-120.680	0.039	-0.022	0.044
2092	737065.01	4708672.68	767.14	-5.299	-80.065	-121.356	0.057	0.048	0.051
2093	737232.90	4708955.04	754.46	-6.222	-44.022	-122.418	-0.061	-0.027	-0.017
2103	737630.50	4708722.16	745.34	44.296	-42.361	-122.714	-0.008	-0.003	0.018

EM.= 0.046

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2009-2010.abs

Fecha: 15/3/2007 05:09

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

737774.664 4709103.208 1861.082  
 8.759937082055643

0.848479957047538 0.528965730736975 0.016643863569106 Omega: 0.1541  
 -0.528917754969093 0.848639736150632 -0.007523742728178 Phi: -1.1526  
 -0.018104446057900 -0.002419490046142 0.999833173634909 Kappa: 35.4869

0.854504014958191 0.519302135954567 0.012172921315614 Omega: 1.0263  
 -0.519425752133379 0.854438666851026 0.011465278475260 Phi: -0.2831  
 -0.004447071059079 -0.016120055299747 0.999860173912397 Kappa: 34.7712

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

737774.664 4709103.208 1861.082  
 0.848479957047538 -0.528917754969093 -0.018104446057900 Omega: 0.4790  
 0.528965730736975 0.848639736150632 -0.002419490046142 Phi: 1.0596  
 0.016643863569106 -0.007523742728178 0.999833173634909 Kappa: -35.4895

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

738301.471 4708785.858 1861.127  
 0.854504014958191 -0.519425752133379 -0.004447071059079 Omega: -0.7300  
 0.519302135954567 0.854438666851026 -0.016120055299747 Phi: 0.7750  
 0.012172921315614 0.011465278475260 0.999860173912397 Kappa: -34.7645

IMAGEN DERECHA

738036.400 4708942.127 1860.350  
 0.852132310197548 -0.523178248814308 -0.012451742246930 Omega: 0.0764  
 0.523142458592632 0.852222435595891 -0.006236047198677 Phi: 0.8833  
 0.013874218358018 -0.001200097746912 0.999903028213413 Kappa: -35.0518

IMAGEN DERECHA

738565.498 4708630.400 1861.413  
 0.857271641701464 -0.514850463606729 -0.003785823346744 Omega: -0.5361  
 0.514777221426395 0.857238637290531 -0.012096736617495 Phi: 0.6031  
 0.009473364502431 0.008421333636063 0.999919665025543 Kappa: -34.4268

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2101	737749.06	4709035.41	761.79	3.884	-7.810	-125.462	0.007	-0.007	0.010
2111	738028.39	4708853.36	770.42	41.913	-8.583	-123.788	0.018	-0.005	0.001
2112	737743.97	4708475.55	750.47	37.221	-62.355	-126.282	-0.002	0.027	0.003
2102	737474.18	4708535.68	771.47	7.415	-72.823	-124.450	-0.013	-0.005	0.013
2113	737927.08	4708591.08	741.46	47.999	-40.103	-127.061	0.003	0.020	0.002
2103	737630.50	4708722.16	745.34	11.349	-45.308	-127.291	-0.013	-0.031	-0.028

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2131	738464.40	4708601.62	770.34	26.238	-6.044	-119.365	0.012	-0.016	-0.079
8007	738423.25	4708580.15	764.21	23.615	-10.380	-120.128	0.010	0.001	0.018
2121	738336.45	4708697.34	762.78	8.837	-4.352	-120.258	0.004	0.004	0.068
2122	737999.95	4708299.23	743.96	0.011	-60.664	-123.254	-0.042	-0.032	-0.038
2132	738223.48	4708036.90	746.63	35.825	-72.505	-123.001	0.016	0.044	0.031

EM.= 0.019

EM.= 0.049

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2010-2011.abs  
 Fecha: 15/3/2007 05:08

Nombre del modelo: G:\T07-17\2012-2013.abs  
 Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

738036.923 4708942.523 1859.964  
 8.858169410412684  
 0.852066745573465 0.523237565359085 0.014307735143664 Omega: 0.4327  
 -0.523281082916851 0.852159757535251 -0.000809875811696 Phi: -0.8032  
 -0.012616233558859 -0.006796898892873 0.999897311135613 Kappa: 35.0616

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

738565.374 4708630.175 1861.567  
 9.111446335890236  
 0.857250695075868 0.514814912293421 0.009319435189880 Omega: 0.7543  
 -0.514885562848889 0.857219479859512 0.008223169654721 Phi: -0.2391  
 -0.003755391021484 -0.011847760535412 0.999922760821340 Kappa: 34.4334

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

738036.923 4708942.523 1859.964  
 0.852066745573465 -0.523281082916851 -0.012616233558859 Omega: 0.0516  
 0.523237565359085 0.852159757535251 -0.006796898892873 Phi: 0.9109  
 0.014307735143664 -0.000809875811696 0.999897311135613 Kappa: -35.0592

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

738565.374 4708630.175 1861.567  
 0.857250695075868 -0.514885562848889 -0.003755391021484 Omega: -0.5235  
 0.514814912293421 0.857219479859512 -0.011847760535412 Phi: 0.5933  
 0.009319435189880 0.008223169654721 0.999922760821340 Kappa: -34.4295

IMAGEN DERECHA

738301.635 4708785.714 1861.276  
 0.854535205535642 -0.519372383171714 -0.004680822437673 Omega: -0.7203  
 0.519246549428694 0.854473125723440 -0.016084101554313 Phi: 0.7865  
 0.012353275134714 0.011313930128321 0.999859685945232 Kappa: -34.7604

IMAGEN DERECHA

738829.536 4708473.548 1860.758  
 0.856836194939307 -0.515566392186279 -0.004798988430169 Omega: -0.2053  
 0.515533580356062 0.856843567481346 -0.006650442925111 Phi: 0.4801  
 0.007540727232148 0.003224300523121 0.999966370093988 Kappa: -34.4823

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2111	738028.39	4708853.36	770.42	6.000	-8.244	-122.991	-0.024	-0.002	-0.003
2112	737743.97	4708475.55	750.47	0.987	-61.376	-125.670	-0.006	0.006	0.009
2121	738336.45	4708697.34	762.78	44.854	-5.052	-123.343	0.031	-0.015	0.005
2122	737999.95	4708299.23	743.96	36.035	-63.216	-125.974	0.010	0.031	-0.003
2113	737927.08	4708591.08	741.46	11.788	-39.436	-126.400	-0.011	-0.020	-0.008

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2131	738464.40	4708601.62	770.34	-7.436	-6.972	-119.880	-0.011	-0.007	-0.043
2142	738430.95	4707909.60	744.61	28.530	-73.934	-123.361	0.018	-0.025	-0.050
8007	738423.25	4708580.15	764.21	-10.092	-11.310	-120.620	-0.000	0.002	0.010
2132	738223.48	4708036.90	746.63	1.821	-73.686	-123.248	-0.007	0.034	0.049
2141	738767.28	4708401.25	752.31	32.390	-8.687	-121.738	0.001	-0.004	0.034

EM.= 0.021

EM.= 0.036

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2011-2012.abs  
 Fecha: 15/3/2007 05:07

Nombre del modelo: G:\T07-17\2013-2014.abs  
 Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

738301.471 4708785.858 1861.127  
 9.137429375646606

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

738830.590 4708473.726 1860.393  
 9.356870000529444  
 0.856733150594808 0.515691183797333 0.008420904084391 Omega: 0.4630  
 -0.515731126279535 0.856743667156801 0.003419674422967 Phi: -0.3470  
 -0.005451060294655 -0.007272670790132 0.999958696247621 Kappa: 34.4965

**DOCUMENTO TÉCNICO PARA INFORMACIÓN PÚBLICA**

**Proyecto de Trazado. Acondicionamiento de la Carretera N-260. Eje Pirenaico, P.K. 449,600 al P.K. 463,600. Tramo: Túnel de Balupor – Fiscal.**

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

738830.590 4708473.726 1860.393  
 0.856733150594808 -0.515731126279535 -0.005451060294655 Omega: -0.2177  
 0.515691183797333 0.856743667156801 -0.007272670790132 Phi: 0.5361  
 0.008420904084391 0.003419674422967 0.999958696247621 Kappa: -34.4943

IMAGEN DERECHA

739092.350 4708312.898 1860.001  
 0.857069794155439 -0.515100609182973 -0.010135598930694 Omega: 0.4515  
 0.515144803377252 0.857100384077860 0.002182468097982 Phi: 0.4815  
 0.007563035089564 -0.007091828601752 0.999946251789223 Kappa: -34.4535

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2142	738430.95	4707909.60	744.61	-4.849	-72.812	-119.809	0.012	0.006	0.004
2141	738767.28	4708401.25	752.31	-1.149	-9.260	-118.503	-0.082	0.002	0.001
2151	739059.31	4708115.70	727.04	41.335	-19.294	-121.047	0.002	-0.014	0.017
2152	738786.99	4707806.73	746.68	33.422	-62.612	-119.303	-0.003	0.028	-0.010
2153	739016.00	4708313.78	759.29	26.426	-3.572	-117.564	0.071	-0.022	-0.012

EM.= 0.042

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2014-2015.abs  
 Fecha: 15/3/2007 05:06

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

739092.870 4708312.608 1859.947  
 9.008371306607009  
 0.856968721233065 0.515307021641398 0.007955141434146 Omega: -0.1380  
 -0.515259698191311 0.857002903302615 -0.007312123541646 Phi: -0.6739  
 -0.010585567909366 0.002167297386556 0.999941622583076 Kappa: 34.4631

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

739092.870 4708312.608 1859.947  
 0.856968721233065 -0.515259698191311 -0.010585567909366 Omega: 0.4655  
 0.515307021641398 0.857002903302615 0.002167297386556 Phi: 0.5064  
 0.007955141434146 -0.007312123541646 0.999941622583076 Kappa: -34.4656

IMAGEN DERECHA

739355.628 4708152.308 1857.468  
 0.856914411906472 -0.515428216008893 -0.005607567108421 Omega: 0.0668  
 0.515424806175904 0.856932117069863 -0.002148467522249 Phi: 0.3764  
 0.005912685135976 -0.001049226406648 0.999981969476665 Kappa: -34.4738

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2151	739059.31	4708115.70	727.04	9.405	-20.922	-125.621	-0.040	-0.004	-0.027
2152	738786.99	4707806.73	746.68	1.145	-65.891	-123.431	-0.002	-0.003	-0.022
2161	739368.47	4708071.11	750.25	41.330	-7.475	-122.737	0.035	-0.038	-0.011
2162	739041.85	4707631.97	739.91	35.394	-67.944	-123.821	0.019	0.035	0.029
2153	739016.00	4708313.78	759.29	-6.085	-4.551	-122.246	-0.011	0.011	0.032

EM.= 0.034

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2015-2016.abs  
 Fecha: 15/3/2007 05:05

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

739355.751 4708151.342 1857.938  
 8.673262704406611  
 0.856881651645048 0.515478492931429 0.005979832706466 Omega: 0.0919  
 -0.515476966718740 0.856901300686689 -0.001912502002018 Phi: -0.3890  
 -0.006109980073788 -0.001443678150751 0.999980291774240 Kappa: 34.4778

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

739355.751 4708151.342 1857.938

0.856881651645048 -0.515476966718740 -0.006109980073788 Omega: 0.1218  
 0.515478492931429 0.856901300686689 -0.001443678150751 Phi: 0.3807  
 0.005979832706466 -0.001912502002018 0.999980291774240 Kappa: -34.4778

IMAGEN DERECHA

739619.197 4707993.975 1856.643  
 0.857200427431303 -0.514974957311401 0.002867150800667 Omega: -0.4267  
 0.514982486659343 0.857179012403167 -0.006097469121743 Phi: 0.0434  
 0.000682382408950 0.006703285586362 0.999977299900650 Kappa: -34.4403

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2171	739642.52	4708079.31	748.74	33.396	10.111	-127.674	-0.017	0.011	0.023
2161	739368.47	4708071.11	750.25	6.807	-6.986	-127.684	-0.012	0.001	0.003
2162	739041.85	4707631.97	739.91	0.644	-69.786	-129.005	0.010	0.027	0.008
2172	739341.79	4707507.82	736.23	37.657	-64.219	-129.198	-0.015	-0.020	0.024
2173	739426.00	4707770.80	731.95	30.346	-33.235	-129.681	0.035	-0.019	-0.058

EM.= 0.032

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2016-2017.abs  
 Fecha: 15/3/2007 05:04

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

739618.554 4707994.791 1856.397  
 9.366607916969505  
 0.857171136438931 0.515031675387362 0.000127293666542 Omega: 0.4098  
 -0.515018263298329 0.857146977513965 0.007432860004577 Phi: 0.2368  
 0.003719048959544 -0.006436791620187 0.999972367812468 Kappa: 34.4432

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

739618.554 4707994.791 1856.397  
 0.857171136438931 -0.515018263298329 0.003719048959544 Omega: -0.4732  
 0.515031675387362 0.857146977513965 -0.006436791620187 Phi: 0.0081  
 0.000127293666542 0.007432860004577 0.999972367812468 Kappa: -34.4440

IMAGEN DERECHA

739882.689 4707838.945 1853.615  
 0.857966959466778 -0.513699189493106 0.002416439003388 Omega: -0.1877  
 0.513703797755431 0.857965295633399 -0.001989889530096 Phi: -0.0669  
 -0.001051016165131 0.002948593362895 0.999995100569098 Kappa: -34.3454

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2171	739642.52	4708079.31	748.74	-2.894	9.811	-118.199	0.008	0.017	0.125
2172	739341.79	4707507.82	736.23	1.008	-59.004	-119.970	-0.078	-0.037	-0.083
2181	739896.10	4707689.81	729.07	41.714	-11.872	-120.580	0.046	-0.041	-0.106
2182	739552.82	4707205.56	734.14	36.936	-75.077	-120.452	0.034	0.097	0.121
2173	739426.00	4707770.80	731.95	-5.752	-30.309	-120.219	-0.011	-0.036	-0.057

EM.= 0.097

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2017-2018.abs  
 Fecha: 15/3/2007 05:02

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

739883.438 4707838.713 1853.541  
 9.166013886571601  
 0.857860018838712 0.513883203931012 -0.000490709326330 Omega: 0.1360  
 -0.513880103443279 0.857857500889161 0.002783424747988 Phi: 0.1179  
 0.001851313903745 -0.002135623047370 0.999996005867538 Kappa: 34.3585

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

739883.438 4707838.713 1853.541  
 0.857860018838712 -0.513880103443279 0.001851313903745 Omega: -0.1772  
 0.513883203931012 0.857857500889161 -0.002135623047370 Phi: -0.0312  
 -0.000490709326330 0.002783424747988 0.999996005867538 Kappa: -34.3587

IMAGEN DERECHA

740146.760 4707679.423 1848.523  
 0.857651156328267 -0.514229258254532 -0.001662529332365 Omega: 0.3064  
 0.514231074010655 0.857639266973984 0.004614137641614 Phi: -0.0603  
 -0.000946874138998 -0.004812244727945 0.999987972792695 Kappa: -34.3845

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
8006	739793.37	4707322.03	725.81	20.311	-53.143	-123.174	-0.013	-0.007	-0.108
2181	739896.10	4707689.81	729.07	9.310	-12.963	-122.728	-0.040	0.014	0.031
2182	739552.82	4707205.56	734.14	4.327	-77.536	-122.303	0.022	0.025	0.031
2191	740152.09	4707470.44	714.65	45.556	-19.139	-124.378	0.026	-0.026	0.010
2192	739807.40	4707081.26	732.30	35.122	-74.892	-122.556	0.004	-0.005	0.036

EM.= 0.049

Nombre del modelo: G:\T07-17\2018-2019.abs  
 Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

740145.967 4707679.596 1848.689  
 8.613531818780732  
 0.857674505188986 0.514190406282760 -0.001633779543859 Omega: -0.3087  
 -0.514192025116549 0.857662353527734 -0.004674253717072 Phi: -0.0638  
 -0.001002225209119 0.004849064656168 0.999987740983154 Kappa: 34.3816

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

740145.967 4707679.596 1848.689  
 0.857674505188986 -0.514192025116549 -0.001002225209119 Omega: 0.2976  
 0.514190406282760 0.857662353527734 0.004849064656168 Phi: -0.1040  
 -0.001633779543859 -0.004674253717072 0.999987740983154 Kappa: -34.3816

IMAGEN DERECHA

740409.294 4707521.739 1846.124  
 0.857380021829386 -0.514681328426528 -0.001621214651513 Omega: 0.0583  
 0.514682133390989 0.857381066215132 0.000094148299837 Phi: 0.0854  
 0.001341542374448 -0.000915131086895 0.999998681398706 Kappa: -34.4180

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2201	740417.01	4707405.33	732.69	43.496	-11.761	-129.479	-0.022	0.047	0.124
2202	740038.04	4706974.46	728.86	31.477	-77.278	-129.590	-0.030	-0.051	-0.112
8006	739793.37	4707322.03	725.81	-13.632	-57.284	-130.102	-0.010	-0.003	0.021
2191	740152.09	4707470.44	714.65	13.222	-21.098	-131.527	0.031	-0.033	-0.145
2192	739807.40	4707081.26	732.30	2.135	-80.422	-129.231	0.032	0.040	0.111

EM.= 0.096

Nombre del modelo: G:\T07-17\2019-2020.abs  
 Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

740410.120 4707521.592 1845.976  
 8.859656884871662  
 0.857257865498511 0.514883587294529 0.001960503928432 Omega: 0.0106  
 -0.514882676123387 0.857260091049653 -0.000982914828837 Phi: -0.1392  
 -0.002186748489267 -0.000166818041085 0.999997595148501 Kappa: 34.4330

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

740410.120 4707521.592 1845.976  
 0.857257865498511 -0.514882676123387 -0.002186748489267 Omega: 0.0626  
 0.514883587294529 0.857260091049653 -0.000166818041085 Phi: 0.1248  
 0.001960503928432 -0.000982914828837 0.999997595148501 Kappa: -34.4330

IMAGEN DERECHA

740674.694 4707366.756 1843.648  
 0.855331497537619 -0.518071756643483 -0.003111958931322 Omega: -0.3058  
 0.518039729347696 0.855323673089059 -0.007500204717676 Phi: 0.4168  
 0.006547376376912 0.004803042970486 0.999967030776917 Kappa: -34.6684

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2202	740038.04	4706974.46	728.86	-3.932	-74.548	-126.117	0.034	0.025	0.050
2211	740691.74	4707334.81	728.75	38.379	-1.686	-126.020	0.010	-0.006	0.005
2212	740318.85	4706800.60	732.34	33.344	-75.045	-125.637	-0.000	-0.015	-0.004
2201	740417.01	4707405.33	732.69	7.699	-10.829	-125.648	-0.007	0.008	0.039
2203	740219.11	4707187.03	714.38	1.243	-43.448	-127.720	-0.037	-0.012	-0.089

EM.= 0.044

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2020-2021.abs  
 Fecha: 15/3/2007 05:01

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

740674.137 4707366.920 1843.703  
 9.378405439745531  
 0.855334636771855 0.518040632729699 0.006046650260479 Omega: 0.4694  
 -0.518069378218082 0.855324231217684 0.004957705578986 Phi: -0.1657  
 -0.002603553550461 -0.007373081641372 0.999969429120721 Kappa: 34.6700

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

740674.137 4707366.920 1843.703  
 0.855334636771855 -0.518069378218082 -0.002603553550461 Omega: -0.3156  
 0.518040632729699 0.855324231217684 -0.007373081641372 Phi: 0.3849  
 0.006046650260479 0.004957705578986 0.999969429120721 Kappa: -34.6684

IMAGEN DERECHA

740938.651 4707211.029 1839.435  
 0.853364843874068 -0.521278854850108 -0.006066195343773 Omega: 0.1545  
 0.521283792484405 0.853382953518701 -0.000861589678194 Phi: 0.3582  
 0.005625916179891 -0.002426958973537 0.999981229292469 Kappa: -34.9100

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2211	740691.74	4707334.81	728.75	3.688	-1.081	-118.886	0.012	0.003	-0.013
2212	740318.85	4706800.60	732.34	-0.810	-70.400	-119.030	-0.006	-0.005	0.025
2221	741021.02	4707199.10	724.15	41.219	4.736	-119.239	-0.011	0.001	0.016
2222	740551.79	4706785.40	716.56	21.278	-58.908	-120.565	0.005	0.001	-0.028
3513	741029.63	4707312.37	731.94	35.744	15.536	-118.341	0.000	0.000	0.000

EM.= 0.017

Nombre del modelo: C:\Trabajos\03-2007\T07-17\2021-2022.abs  
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RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

740939.144 4707210.426 1839.472  
 9.120731335245141  
 0.853381224564195 0.521252004669393 0.006069035298566 Omega: 0.0404  
 -0.521243966591647 0.853402569176153 -0.002963480276016 Phi: -0.4281  
 -0.006724050350888 -0.000634469605490 0.999977192037498 Kappa: 34.9072

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

740939.144 4707210.426 1839.472  
 0.853381224564195 -0.521243966591647 -0.006724050350888 Omega: 0.1887  
 0.521252004669393 0.853402569176153 -0.000634469605490 Phi: 0.3864  
 0.006069035298566 -0.002963480276016 0.999977192037498 Kappa: -34.9077



**DOCUMENTO TÉCNICO PARA INFORMACIÓN PÚBLICA**

**Proyecto de Trazado. Acondicionamiento de la Carretera N-260. Eje Pirenaico, P.K. 449,600 al P.K. 463,600. Tramo: Túnel de Balupor – Fiscal.**

IMAGEN DERECHA

741200.056 4707048.422 1837.572  
 0.850684527611453 -0.525672156971382 -0.002148922412018 Omega: 0.5397  
 0.525669552018816 0.850645004134092 0.008637072539140 Phi: -0.1727  
 -0.002712298437513 -0.008477047054552 0.999960390770765 Kappa: -35.2372

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2221	741021.02	4707199.10	724.15	9.131	3.697	-122.225	-0.010	0.004	0.016
2332	741104.02	4706899.09	709.39	34.050	-19.631	-123.684	0.027	-0.005	-0.040
3512	740966.02	4706938.45	712.80	18.887	-23.835	-123.428	0.012	-0.003	0.073
2222	740551.79	4706785.40	716.56	-11.123	-61.828	-123.232	-0.014	0.012	-0.020
3511	741169.79	4707204.81	721.41	22.728	12.735	-122.425	-0.020	0.008	-0.016
3513	741029.63	4707312.37	731.94	3.455	14.788	-121.399	0.004	-0.016	-0.013

EM.= 0.030

Nombre del modelo: G:\T07-17\2022-2023.abs  
 Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

741199.935 4707049.481 1837.526  
 9.128922316807273  
 0.850657030921704 0.525713279579940 -0.002857169364104 Omega: -0.5053  
 -0.525718769196105 0.850624801230633 -0.007564604832918 Phi: -0.0984  
 -0.001546434093017 0.007936951848747 0.999967306134029 Kappa: 35.2408

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

741199.935 4707049.481 1837.526  
 0.850657030921704 -0.525718769196105 -0.001546434093017 Omega: 0.4816  
 0.525713279579940 0.850624801230633 0.007936951848747 Phi: -0.1819  
 -0.002857169364104 -0.007564604832918 0.999967306134029 Kappa: -35.2405

IMAGEN DERECHA

741457.881 4706880.631 1843.029  
 0.847859908484017 -0.530183836262448 0.006218950997298 Omega: 0.7548  
 0.530015191910612 0.847799829818068 0.017870223960909 Phi: -0.9389  
 -0.014746929491620 -0.011855307945770 0.999820973846859 Kappa: -35.5671

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2242	741202.52	4706603.73	721.92	26.099	-42.359	-121.829	0.018	0.030	-0.038
3491	741580.52	4707120.38	716.09	31.570	27.547	-123.019	0.018	0.005	0.001
8005	741191.55	4706606.25	722.58	24.934	-42.750	-121.763	-0.029	-0.006	0.035
2332	741104.02	4706899.09	709.39	-0.087	-20.515	-123.419	0.003	-0.024	0.004
3511	741169.79	4707204.81	721.41	-11.565	11.768	-122.376	-0.009	-0.004	-0.003

EM.= 0.027

Nombre del modelo: G:\T07-17\2023-2024.abs  
 Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

748882.311 4706144.608 1792.063  
 9.178640498514548  
 -0.980323433682057 -0.197177415889814 -0.009329096249699 Omega: 0.9777  
 0.197293354833624 -0.980247543903802 -0.013787124756729 Phi: -0.4091  
 -0.006426314053528 -0.015356410178788 0.999861431976505 Kappa: -187.3567

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

748882.311 4706144.608 1792.063  
 -0.980323433682057 0.197293354833624 -0.006426314053528 Omega: 0.8778  
 -0.197177415889814 -0.980247543903802 -0.015356410178788 Phi: -0.5939  
 -0.009329096249699 -0.013787124756729 0.999861431976505 Kappa: 187.3639

IMAGEN DERECHA

748579.048 4706190.920 1792.561  
 -0.980147370697193 0.198217888849672 0.004560729695966 Omega: 0.5484  
 -0.198248981390369 -0.980120128134609 -0.007866117408158 Phi: 0.1853  
 0.002910857787908 -0.008614114311824 0.999958661116329 Kappa: 187.2949

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3251	748990.69	4706189.78	637.01	-9.797	-5.219	-126.001	-0.007	0.011	-0.007
3261	748672.58	4706153.51	639.77	23.400	5.482	-125.323	0.011	-0.012	-0.000
8000	748624.91	4706166.70	639.54	28.773	5.097	-125.318	-0.006	-0.009	-0.021
3252	748851.89	4706151.76	637.08	4.212	1.821	-125.798	0.004	-0.013	0.014
3262	748594.41	4706193.24	639.36	32.601	2.922	-125.350	-0.001	0.024	0.014

EM.= 0.016

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3025-3026.abs  
 Fecha: 15/3/2007 13:49

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

748578.981 4706191.631 1792.389  
 9.328366374910255  
 -0.980153089290123 -0.198221003113267 0.002890584681177 Omega: 0.4649  
 0.198192665413546 -0.980130144103106 -0.008035421376625 Phi: 0.2818  
 0.004425938465816 -0.007303050403481 0.999963537596997 Kappa: -187.2984

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

748578.981 4706191.631 1792.389  
 -0.980153089290123 0.198192665413546 0.004425938465816 Omega: 0.5116  
 -0.198221003113267 -0.980130144103106 -0.007303050403481 Phi: 0.1840  
 0.002890584681177 -0.008035421376625 0.999963537596997 Kappa: 187.2967

IMAGEN DERECHA

748274.609 4706235.725 1794.547  
 -0.980634911391232 0.195476247024284 0.012008638974174 Omega: 1.1869  
 -0.195659034150957 -0.980531240993376 -0.016614084118710 Phi: 0.5429  
 0.008527186864716 -0.018641949610752 0.999789860320099 Kappa: 187.4626

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3271	748329.47	4706635.09	781.76	35.158	-40.502	-108.794	-0.014	-0.010	-0.005
3272	748246.84	4706322.24	643.65	37.128	-5.764	-123.357	-0.000	0.024	0.013
8000	748624.91	4706166.70	639.54	-5.904	2.546	-123.546	-0.014	0.005	0.006
3261	748672.58	4706153.51	639.77	-11.193	2.919	-123.495	-0.017	0.001	0.011
3262	748594.41	4706193.24	639.36	-2.129	0.405	-123.595	0.045	-0.020	-0.024

EM.= 0.024

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3026-3027.abs  
 Fecha: 15/3/2007 13:50

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

748274.951 4706234.932 1794.375  
 9.285968936147253  
 -0.980614724136151 -0.195745577786301 0.008856160820972 Omega: 1.1025  
 0.195547614651890 -0.980501822268126 -0.019424390153620 Phi: 0.7949  
 0.012485720297030 -0.017316041868490 0.999772104773219 Kappa: -187.4693

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

748274.951 4706234.932 1794.375  
 -0.980614724136151 0.195547614651890 0.012485720297030 Omega: 1.2367  
 -0.195745577786301 -0.980501822268126 -0.017316041868490 Phi: 0.5638

0.008856160820972 -0.019424390153620 0.999772104773219 Kappa: 187.4570

IMAGEN DERECHA  
 747970.245 4706275.647 1795.961  
 -0.981264543971040 0.192092521670151 0.014844455655545 Omega: 1.0198  
 -0.192291843396791 -0.981246094166686 -0.013414531139323 Phi: 0.7633  
 0.011989233018459 -0.016017671523241 0.999799826210528 Kappa: 187.6807

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3272	748246.84	4706322.24	643.65	3.268	-6.484	-124.098	0.067	-0.044	-0.037
3271	748329.47	4706635.09	781.76	1.303	-41.516	-109.810	-0.056	-0.016	0.015
3281	748072.33	4706456.63	741.00	24.649	-17.171	-114.067	0.006	0.028	-0.018
3282	747864.22	4706271.06	663.25	42.612	6.955	-122.252	-0.015	0.023	0.027
8001	748114.00	4706372.79	708.50	18.439	-9.138	-117.354	-0.002	0.009	0.013

EM.= 0.042

Nombre del modelo: G:\T07-17\3027-3028.abs  
 Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 747969.914 4706276.228 1796.084  
 9.444601840895979  
 -0.981234349654710 -0.192456468127554 0.011817738090111 Omega: 0.8245  
 0.192266823775040 -0.981220056429055 -0.015513521096740 Phi: 0.9283  
 0.014581479114144 -0.012950240817423 0.999809817780169 Kappa: -187.6819

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA  
 747969.914 4706276.228 1796.084  
 -0.981234349654710 0.192266823775040 0.014581479114144 Omega: 0.9877  
 -0.192456468127554 -0.981220056429055 -0.012950240817423 Phi: 0.7524  
 0.011817738090111 -0.015513521096740 0.999809817780169 Kappa: 187.6700

IMAGEN DERECHA  
 747666.740 4706318.008 1798.465  
 -0.981944777007532 0.188557921234711 0.015177787957171 Omega: 0.4405  
 -0.188639597745703 -0.982037701672294 -0.004129728385399 Phi: 0.8993  
 0.014126467002313 -0.006918297033413 0.999876282395072 Kappa: 187.9172

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3281	748072.33	4706456.63	741.00	-8.594	-19.385	-111.860	0.027	-0.026	-0.003
3282	747864.22	4706271.06	663.25	9.124	4.250	-120.048	-0.013	0.058	0.023
3291	747552.70	4706367.70	685.74	43.492	0.519	-118.212	-0.017	-0.013	-0.020
3292	747646.39	4706333.13	679.10	33.046	2.211	-118.738	-0.007	-0.009	-0.049
3293	747567.82	4706337.17	652.99	41.252	3.429	-121.617	0.010	-0.010	0.050

EM.= 0.038

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3028-3029.abs  
 Fecha: 15/3/2007 13:51

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 747666.937 4706317.016 1798.979  
 7.961530956499747  
 -0.981917802785305 -0.188768543493303 0.014278149764472 Omega: 0.3141  
 0.188673165524598 -0.982009215161153 -0.007767750607758 Phi: 0.9860  
 0.015487581612608 -0.004933388895457 0.999867889518310 Kappa: -187.9148

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA  
 747666.937 4706317.016 1798.979  
 -0.981917802785305 0.188673165524598 0.015487581612608 Omega: 0.4946  
 -0.188768543493303 -0.982009215161153 -0.004933388895457 Phi: 0.9090

0.014278149764472 -0.007767750607758 0.999867889518310 Kappa: 187.9088

IMAGEN DERECHA  
 747361.149 4706360.525 1801.653  
 -0.982139964269954 0.187870578479862 0.010282816999920 Omega: 0.2761  
 -0.187904669747772 -0.982184221284273 -0.002447559434860 Phi: 0.6137  
 0.009639796200785 -0.004336035268349 0.999944135003231 Kappa: 187.9655

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3302	747280.15	4706287.01	701.58	44.858	13.546	-138.488	-0.002	-0.042	0.028
3291	747552.70	4706367.70	685.74	13.124	-2.853	-140.053	-0.004	0.005	-0.083
3292	747646.39	4706333.13	679.10	0.735	-0.805	-140.697	-0.022	0.019	0.011
3293	747567.82	4706337.17	652.99	10.479	0.573	-144.127	0.042	-0.014	0.059
3303	747218.79	4706172.46	649.56	49.607	29.172	-145.013	-0.015	0.031	-0.015

EM.= 0.046

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3029-3030.abs  
 Fecha: 15/3/2007 13:53

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 747362.164 4706361.261 1801.641  
 8.082548446862715  
 -0.982195269666256 -0.187563358175262 0.010603721764008 Omega: 0.1059  
 0.187533874455530 -0.982251097542327 -0.003718508920371 Phi: 0.7075  
 0.011112973361239 -0.001663744845747 0.999936864895060 Kappa: -187.9894

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA  
 747362.164 4706361.261 1801.641  
 -0.982195269666256 0.187533874455530 0.011112973361239 Omega: 0.2367  
 -0.187563358175262 -0.982251097542327 -0.001663744845747 Phi: 0.6751  
 0.010603721764008 -0.003718508920371 0.999936864895060 Kappa: 187.9875

IMAGEN DERECHA  
 747058.511 4706401.311 1803.571  
 -0.982894695556761 0.183801420594299 0.011621326684085 Omega: 0.7971  
 -0.183924258226078 -0.982883650987037 -0.010563894091685 Phi: 0.6036  
 0.009480753259508 -0.012520639357114 0.999876666848328 Kappa: 188.2234

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
5098	746900.78	4706221.56	701.66	51.314	27.908	-136.628	-0.008	-0.020	0.017
3312	747035.38	4706138.63	704.36	33.033	34.865	-136.072	-0.033	0.001	-0.043
3301	747110.95	4706122.06	695.34	23.454	35.124	-137.088	-0.029	-0.020	0.015
3302	747280.15	4706287.01	701.58	6.734	11.144	-136.161	0.013	-0.073	-0.063
3303	747218.79	4706172.46	649.56	11.462	26.524	-142.640	0.057	0.111	0.074

EM.= 0.067

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3030-3031.abs  
 Fecha: 15/3/2007 13:54

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 747058.371 4706400.937 1803.546  
 8.847641624450187  
 -0.982838081440534 -0.184235805029591 0.009299129818867 Omega: 0.6949  
 0.184111129634351 -0.982821461399095 -0.012847838655193 Phi: 0.7325  
 0.011506416255849 -0.010915271798960 0.999874221703161 Kappa: -188.2111

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA  
 747058.371 4706400.937 1803.546  
 -0.982838081440534 0.184111129634351 0.011506416255849 Omega: 0.8180  
 -0.184235805029591 -0.982821461399095 -0.010915271798960 Phi: 0.5920  
 0.009299129818867 -0.012847838655193 0.999874221703161 Kappa: 188.2033

IMAGEN DERECHA  
 746753.413 4706441.992 1802.423  
 -0.982845900020488 0.184356861266481 0.005146310998111 Omega: 0.1441  
 -0.184365900906173 -0.982856768224191 -0.001337063556505 Phi: 0.3063

**DOCUMENTO TÉCNICO PARA INFORMACIÓN PÚBLICA**

**Proyecto de Trazado. Acondicionamiento de la Carretera N-260. Eje Pirenaico, P.K. 449,600 al P.K. 463,600. Tramo: Túnel de Balupor – Fiscal.**

0.004811589755288 -0.002262931698088 0.999985863772162 Kappa: 188.1952

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3321	746762.72	4706436.35	679.32	32.111	3.615	-127.407	-0.053	0.056	-0.034
8002	746870.30	4706215.82	703.43	15.610	25.830	-124.256	0.001	-0.062	0.028
5098	746900.78	4706221.56	701.66	12.340	24.568	-124.436	-0.005	0.014	0.054
3311	746823.29	4705985.59	660.86	15.987	52.442	-128.778	0.023	-0.016	-0.016
3312	747035.38	4706138.63	704.36	-4.333	30.968	-123.857	-0.004	-0.046	-0.056
3322	746666.55	4705882.02	661.66	31.244	67.218	-128.704	0.030	0.063	0.008
3301	747110.95	4706122.06	695.34	-13.084	31.250	-124.780	0.009	-0.009	0.015

EM.= 0.044

Nombre del modelo: G:\T07-17\3031-3032.abs  
Fecha: 12/3/2007 19:44

**RESULTADOS DE LA ORIENTACIÓN ABSOLUTA**

746752.391 4706441.832 1802.296  
9.650798809445462

-0.982870949571247	-0.184252682929234	0.003955416829433	Omega:	0.1013
0.184244437072446	-0.982877621489223	-0.002359784639728	Phi:	0.2752
0.004322487336317	-0.001590600222508	0.999989392990825	Kappa:	-188.2031

**RESULTADOS DE LA ORIENTACIÓN EXTERNA**

**IMAGEN IZQUIERDA**

746752.391 4706441.832 1802.296

-0.982870949571247	0.184244437072446	0.004322487336317	Omega:	0.1502
-0.184252682929234	-0.982877621489223	-0.001590600222508	Phi:	0.2518
0.003955416829433	-0.002359784639728	0.999989392990825	Kappa:	188.2026

**IMAGEN DERECHA**

746447.922 4706488.163 1798.330

-0.982260645507307	0.187468026988409	-0.004445575850351	Omega:	-0.4339
-0.187492999705052	-0.982247054376159	0.006090913803357	Phi:	-0.2053
-0.003224802190741	0.006816379275814	0.999971568408022	Kappa:	187.9927

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3321	746762.72	4706436.35	679.32	-1.661	0.557	-116.345	0.001	0.103	-0.088
3331	746391.71	4705892.42	667.08	25.734	63.016	-117.632	-0.041	-0.106	-0.088
3332	746534.35	4706781.71	683.06	28.197	-30.270	-116.148	0.030	-0.037	0.031
3322	746666.55	4705882.02	661.66	-2.461	58.847	-118.099	-0.033	0.068	0.106
3333	746372.08	4706457.88	659.57	38.531	5.813	-118.570	0.043	-0.028	0.038

EM.= 0.089

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3032-3033.abs  
Fecha: 15/3/2007 13:56

**RESULTADOS DE LA ORIENTACIÓN ABSOLUTA**

746447.277 4706488.082 1798.432  
9.411106654702534

-0.982242104168892	-0.187579126977187	-0.003810501324480	Omega:	-0.3791
0.187550746833657	-0.982231441008223	0.006790703722569	Phi:	-0.3194
-0.005016588482748	0.005955452744027	0.999969682751736	Kappa:	-187.9889

**RESULTADOS DE LA ORIENTACIÓN EXTERNA**

**IMAGEN IZQUIERDA**

746447.277 4706488.082 1798.432

-0.982242104168892	0.187550746833657	-0.005016588482748	Omega:	-0.4323
-0.187579126977187	-0.982231441008223	0.005955452744027	Phi:	-0.2426
-0.003810501324480	0.006790703722569	0.999969682751736	Kappa:	187.9871

**IMAGEN DERECHA**

746143.235 4706534.158 1795.182

-0.982558188962447	0.185928573834001	-0.003157647049785	Omega:	-0.0320
-0.185929233376900	-0.982563134249794	-0.000085959875677	Phi:	-0.1985
-0.003118569979182	0.000502638315472	0.999995010925558	Kappa:	188.0940

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3341	746143.05	4706108.54	659.04	24.793	44.947	-121.207	-0.044	-0.069	-0.086

3342	746262.43	4706886.81	682.51	27.836	-38.637	-118.218	0.024	-0.009	0.085
3331	746391.71	4705892.42	667.08	-5.468	62.566	-120.626	0.006	0.052	0.077
3332	746534.35	4706781.71	683.06	-2.643	-33.086	-118.329	-0.009	0.008	-0.070
3333	746372.08	4706457.88	659.57	7.855	3.933	-121.000	0.023	0.018	-0.006

EM.= 0.068

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3033-3034.abs  
Fecha: 15/3/2007 13:58

**RESULTADOS DE LA ORIENTACIÓN ABSOLUTA**

746144.628 4706533.928 1795.123  
9.459191665631856

-0.982550412058733	-0.185986543933176	-0.001921780165913	Omega:	0.0029
0.185986277351823	-0.982552290445872	0.000318082349582	Phi:	-0.1240
-0.001947408540636	-0.000044892795296	0.999998102790507	Kappa:	-188.0904

**RESULTADOS DE LA ORIENTACIÓN EXTERNA**

**IMAGEN IZQUIERDA**

746144.628 4706533.928 1795.123

-0.982550412058733	0.185986277351823	-0.001947408540636	Omega:	-0.0202
-0.185986543933176	-0.982552290445872	-0.000044892795296	Phi:	-0.1223
-0.001921780165913	0.000318082349582	0.999998102790507	Kappa:	188.0904

**IMAGEN DERECHA**

745840.160 4706576.426 1792.651

-0.982833476085778	0.184471344161176	-0.002946433185374	Omega:	0.4200
-0.184446235558234	-0.982815749554709	-0.007265577445291	Phi:	-0.2697
-0.004236091777036	-0.006597394226959	0.999969264485599	Kappa:	188.1901

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3351	745854.80	4707013.24	675.28	39.766	-44.084	-118.296	0.051	-0.007	-0.144
3352	745828.31	4706119.41	666.00	24.945	49.290	-119.330	0.068	0.063	0.114
3341	746143.05	4706108.54	659.04	-7.969	44.210	-120.105	-0.054	-0.112	-0.124
3342	746262.43	4706886.81	682.51	-5.075	-38.959	-117.641	-0.041	0.073	0.063
4583	745999.40	4707000.46	678.46	24.485	-45.601	-118.014	-0.024	-0.017	0.092

EM.= 0.110

Nombre del modelo: G:\T07-17\3034-3035.abs  
Fecha: 12/3/2007 19:44

**RESULTADOS DE LA ORIENTACIÓN ABSOLUTA**

745839.735 4706576.466 1792.633  
9.465328436441604

-0.982781705825954	-0.184715620748869	-0.004500904929860	Omega:	0.4643
0.184742582985029	-0.982764951130264	-0.006574865926425	Phi:	-0.2043
-0.003208851172495	-0.007293166753261	0.999968255992590	Kappa:	-188.1709

**RESULTADOS DE LA ORIENTACIÓN EXTERNA**

**IMAGEN IZQUIERDA**

745839.735 4706576.466 1792.633

-0.982781705825954	0.184742582985029	-0.003208851172495	Omega:	0.4186
-0.184715620748869	-0.982764951130264	-0.007293166753261	Phi:	-0.2865
-0.004500904929860	-0.006574865926425	0.999968255992590	Kappa:	188.1726

**IMAGEN DERECHA**

745535.631 4706614.381 1789.886

-0.982744199386513	0.184936762836323	-0.003497473914556	Omega:	0.6221
-0.184891061978443	-0.982701839095298	-0.010601445146870	Phi:	-0.3436
-0.005397570994871	-0.009771857056898	0.999937686577026	Kappa:	188.1612

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3341	746143.05	4706108.54	659.04	24.793	44.947	-121.207	-0.044	-0.069	-0.086





**DOCUMENTO TÉCNICO PARA INFORMACIÓN PÚBLICA**

**Proyecto de Trazado. Acondicionamiento de la Carretera N-260. Eje Pirenaico, P.K. 449,600 al P.K. 463,600. Tramo: Túnel de Balupor – Fiscal.**

5094 744322.17 4706996.62 689.03 36.023 -18.555 -119.963 0.026 0.016 -0.012  
3401 744315.67 4706996.92 689.04 36.719 -18.454 -119.970 0.018 0.007 0.007

EM.= 0.020

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3039-3040.abs  
Fecha: 15/3/2007 14:02

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

744320.436 4706793.796 1792.630  
9.282485714179062  
-0.981418643252151 -0.191557239263255 0.011102736732339 Omega: -0.1152  
0.191565505627447 -0.981479776688455 -0.000324045182906 Phi: 0.6977  
0.010959184769321 0.001808877392219 0.999938310213071 Kappa: -187.7280

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

744320.436 4706793.796 1792.630  
-0.981418643252151 0.191565505627447 0.010959184769321 Omega: 0.0206  
-0.191557239263255 -0.981479776688455 0.001808877392219 Phi: 0.7068  
0.011102736732339 -0.000324045182906 0.999938310213071 Kappa: 187.7285

IMAGEN DERECHA

744016.153 4706842.934 1794.075  
-0.981080060855101 0.193388895647857 0.009091162337905 Omega: -0.4223  
-0.193313525248411 -0.981099757073155 0.008552638600289 Phi: 0.6731  
0.010573322495017 0.006633378558297 0.999922098535840 Kappa: 187.6146

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3411	743951.05	4706859.15	698.00	39.115	0.498	-118.359	0.038	-0.018	-0.023
3401	744315.67	4706996.92	689.04	3.392	-21.589	-118.894	-0.005	0.046	-0.011
3402	744277.94	4706185.78	731.03	-9.308	64.958	-114.388	0.002	-0.008	-0.007
5094	744322.17	4706996.62	689.03	2.698	-21.698	-118.889	-0.019	-0.016	0.009
3422	743834.07	4706170.72	734.09	37.312	75.711	-114.588	-0.017	0.007	-0.008
3412	743993.81	4706596.95	677.39	29.155	27.335	-120.526	0.001	-0.010	0.040

EM.= 0.026

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3040-3041.abs  
Fecha: 15/3/2007 13:59

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

744016.065 4706843.001 1794.285  
9.104123771782840  
-0.981080117414479 -0.193316636770245 0.010511001942394 Omega: -0.5458  
0.193391767729358 -0.981098970825600 0.006665854743666 Phi: 0.5745  
0.009023712567784 0.008572478800830 0.999922539609296 Kappa: -187.6097

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

744016.065 4706843.001 1794.285  
-0.981080117414479 0.193391767729358 0.009023712567784 Omega: -0.4244  
-0.193316636770245 -0.981098970825600 0.008572478800830 Phi: 0.6692  
0.010511001942394 0.006665854743666 0.999922539609296 Kappa: 187.6144

IMAGEN DERECHA

743711.002 4706883.515 1793.416  
-0.981310373919866 0.192157552644170 0.010267667654159 Omega: 0.8187  
-0.192267635080346 -0.981279835037470 -0.011092423064696 Phi: 0.5057  
0.007943962352886 -0.012859250002949 0.999885760050366 Kappa: 187.6828

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3422	743834.07	4706170.72	734.09	4.282	75.320	-117.151	0.026	0.056	0.052
3421	743630.79	4706258.45	739.07	28.052	70.178	-116.766	-0.035	-0.023	-0.027
3423	743649.60	4706665.64	686.76	34.626	25.852	-122.194	-0.003	0.003	-0.001
3411	743951.05	4706859.15	698.00	6.261	-1.391	-120.477	-0.009	0.013	0.058
3412	743993.81	4706596.95	677.39	-3.932	25.932	-122.868	0.021	-0.048	-0.083

EM.= 0.053

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3041-3042.abs  
Fecha: 15/3/2007 14:00

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

743711.487 4706883.247 1793.555  
8.494527539572436  
-0.981283058267212 -0.192390302370948 0.008338531727026 Omega: 0.7171  
0.192273160292747 -0.981253851503688 -0.013111473609718 Phi: 0.6815  
0.010704736745332 -0.011262791074777 0.999879271786559 Kappa: -187.6821

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

743711.487 4706883.247 1793.555  
-0.981283058267212 0.192273160292747 0.010704736745332 Omega: 0.8348  
-0.192390302370948 -0.981253851503688 -0.011262791074777 Phi: 0.5309  
0.008338531727026 -0.013111473609718 0.999879271786559 Kappa: 187.6748

IMAGEN DERECHA

743407.619 4706919.956 1798.678  
-0.980796652782966 0.194176043672043 0.018264445066946 Omega: 0.5513  
-0.194299164780234 -0.980928483692403 -0.005210033265355 Phi: 1.0762  
0.016904450758136 -0.008658749609231 0.999819616530787 Kappa: 187.5495

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
8004	743332.86	4706435.35	720.32	32.254	61.738	-126.018	0.049	-0.007	0.068
3431	743318.55	4706316.85	739.06	31.240	75.721	-123.627	-0.026	-0.035	-0.064
3432	743383.50	4706725.86	689.77	32.936	27.075	-130.004	0.012	0.019	0.000
3421	743630.79	4706258.45	739.07	-6.152	75.401	-123.239	-0.024	0.013	0.019
3423	743649.60	4706665.64	686.76	0.828	28.007	-130.001	-0.010	0.010	-0.024

EM.= 0.044

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3042-3043.abs  
Fecha: 15/3/2007 14:03

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

743407.462 4706920.326 1798.475  
 8.723954719810953  
 -0.980799586350879 -0.194295460611878 0.016776334509165 Omega: 0.3119  
 0.194179208411533 -0.980930819711111 -0.008316367088922 Phi: 1.1506  
 0.018072255935983 -0.004899074045720 0.999824680951055 Kappa: -187.5571

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

743407.462 4706920.326 1798.475  
 -0.980799586350879 0.194179208411533 0.018072255935983 Omega: 0.5295  
 -0.194295460611878 -0.980930819711111 -0.004899074045720 Phi: 1.0681  
 0.016776334509165 -0.008316367088922 0.999824680951055 Kappa: 187.5498

IMAGEN DERECHA

743102.993 4706959.022 1802.108  
 -0.980237257149950 0.196557455150021 0.022362614339352 Omega: 0.2622  
 -0.196600389408353 -0.980483659396650 0.000283796824178 Phi: 1.3995  
 0.021981960322664 -0.004118310466786 0.999749885190927 Kappa: 187.3989

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
8004	743332.86	4706435.35	720.32	-4.641	56.803	-123.255	0.009	0.041	0.083
3441	743003.11	4706324.38	727.24	29.975	76.615	-122.977	-0.006	-0.007	-0.030
3442	743085.79	4706963.25	698.29	34.839	2.956	-126.752	-0.011	0.002	0.029
3431	743318.55	4706316.85	739.06	-5.632	70.430	-121.010	-0.007	-0.005	-0.014
3432	743383.50	4706725.86	689.77	-3.929	23.019	-126.918	0.016	-0.031	-0.068

EM.= 0.046

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3043-3044.abs  
 Fecha: 15/3/2007 14:05

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

743102.897 4706958.610 1802.296  
 9.669387075610883  
 -0.980243979273096 -0.196573958999998 0.021918479461717 Omega: 0.0061  
 0.196522636436228 -0.980488995014506 -0.004492663307910 Phi: 1.4245  
 0.022373968512554 -0.000096428787990 0.999749666783885 Kappa: -187.4038

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

743102.897 4706958.610 1802.296  
 -0.980243979273096 0.196522636436228 0.022373968512554 Omega: 0.2861  
 -0.196573958999998 -0.980488995014506 -0.000096428787990 Phi: 1.3955  
 0.021918479461717 -0.004492663307910 0.999749666783885 Kappa: 187.4006

IMAGEN DERECHA

742798.336 4707000.164 1799.420  
 -0.980061700827160 0.198548136328512 0.007596060311042 Omega: -0.1468  
 -0.198523395659836 -0.980088426663719 0.003890667747872 Phi: 0.5231  
 0.008217295629506 0.002305098763749 0.999963580622928 Kappa: 187.2766

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3441	743003.11	4706324.38	727.24	-5.262	66.350	-111.085	-0.001	-0.011	-0.002
3451	742910.22	4707294.67	837.20	24.130	-30.153	-100.382	-0.006	-0.027	0.047
3442	743085.79	4706963.25	698.29	-0.724	-0.111	-114.185	0.021	-0.002	-0.031
3452	742758.60	4706585.21	710.95	24.790	44.878	-113.452	0.023	0.035	0.069
3453	742720.67	4706900.58	691.96	34.996	13.666	-115.632	-0.036	0.005	-0.083

EM.= 0.049

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3044-3045.abs  
 Fecha: 15/3/2007 14:06

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

742798.315 4707000.158 1799.317  
 9.283712966897932  
 -0.980062926714439 -0.198517754135340 0.008207373086963 Omega: -0.2468  
 0.198542360134337 -0.980089626447273 0.002292457793081 Phi: 0.4831  
 0.007588867650382 0.003876264117244 0.999963691172974 Kappa: -187.2755

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

742798.315 4707000.158 1799.317  
 -0.980062926714439 0.198542360134337 0.007588867650382 Omega: -0.1459  
 -0.198517754135340 -0.980089626447273 0.003876264117244 Phi: 0.5225  
 0.008207373086963 0.002292457793081 0.999963691172974 Kappa: 187.2770

IMAGEN DERECHA

742493.881 4707043.293 1794.447  
 -0.979136060933229 0.203200728374789 0.001427644253703 Omega: -0.0692  
 -0.203198767264765 -0.979136497578428 0.001407157393377 Phi: 0.1072  
 0.001683794001631 0.001087702994819 0.999997990867959 Kappa: 186.9732

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3452	742758.60	4706585.21	710.95	-5.575	44.208	-117.369	-0.019	0.064	0.015
3461	742397.06	4706396.32	747.44	28.586	71.885	-113.804	-0.003	-0.032	0.004
3451	742910.22	4707294.67	837.20	-6.299	-33.886	-103.461	0.020	0.000	0.016
3462	742562.40	4706996.07	705.85	23.925	5.018	-117.988	0.005	-0.021	-0.002
3453	742720.67	4706900.58	691.96	5.162	11.710	-119.365	-0.004	-0.011	-0.033

EM.= 0.032

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3045-3046.abs  
 Fecha: 15/3/2007 14:08

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

742494.128 4707043.126 1794.509  
 8.965940724353793  
 -0.979139995264619 -0.203177646609908 0.001927068047727 Omega: -0.0845  
 0.203179735013267 -0.979140991477262 0.000956079945933 Phi: 0.1078  
 0.001692617245510 0.001327677289023 0.999997686157261 Kappa: -186.9745

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

742494.128 4707043.126 1794.509  
 -0.979139995264619 0.203179735013267 0.001692617245510 Omega: -0.0609  
 -0.203177646609908 -0.979140991477262 0.001327677289023 Phi: 0.1227  
 0.001927068047727 0.000956079945933 0.999997686157261 Kappa: 186.9746

IMAGEN DERECHA

742190.004 4707086.742 1790.741  
 -0.978957477621618 0.204054683318790 0.001985755369491 Omega: -0.3526  
 -0.204039521621843 -0.978943823876811 0.006071516266517 Phi: 0.2026  
 0.003182864283722 0.005538583673959 0.999979596524768 Kappa: 186.9185

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3471	742085.97	4706542.76	702.72	33.030	63.731	-121.907	0.009	-0.003	-0.042
3472	742261.22	4707077.36	716.54	26.008	1.379	-120.276	0.002	-0.007	0.007
3461	742397.06	4706396.32	747.44	-4.256	72.681	-116.876	-0.005	0.011	0.028
3462	742562.40	4706996.07	705.85	-8.726	3.431	-121.409	0.014	-0.003	-0.020
3473	742080.41	4706907.76	693.77	41.903	23.994	-122.875	-0.019	0.001	0.027

EM.= 0.024

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3046-3047.abs  
 Fecha: 15/3/2007 14:15

**DOCUMENTO TÉCNICO PARA INFORMACIÓN PÚBLICA**

**Proyecto de Trazado. Acondicionamiento de la Carretera N-260. Eje Pirenaico, P.K. 449,600 al P.K. 463,600. Tramo: Túnel de Balupor – Fiscal.**

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

742190.001 4707086.588 1790.714  
 8.773409827584596  
 -0.978962863839287 -0.204013507292067 0.003193754212670 Omega: -0.3786  
 0.204028474626364 -0.978950012244110 0.005408795512495 Phi: 0.1288  
 0.002023058382868 0.005946626745176 0.999980272237974 Kappa: -186.9193

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

742190.001 4707086.588 1790.714  
 -0.978962863839287 0.204028474626364 0.002023058382868 Omega: -0.3443  
 -0.204013507292067 -0.978950012244110 0.005946626745176 Phi: 0.2033  
 0.003193754212670 0.005408795512495 0.999980272237974 Kappa: 186.9202

IMAGEN DERECHA

741886.667 4707133.800 1791.322  
 -0.978534891269064 0.205988346186659 0.006186097665477 Omega: -0.7995  
 -0.205886139547324 -0.978473860737318 0.014135112171765 Phi: 0.5707  
 0.008964603245062 0.012558068684867 0.999880958314321 Kappa: 186.7979

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3481	741788.19	4706554.08	700.90	32.201	68.023	-124.689	0.004	-0.001	-0.004
3482	741828.11	4707040.35	706.91	39.057	12.840	-123.692	0.007	0.001	0.014
3471	742085.97	4706542.76	702.72	-1.289	62.363	-124.383	0.002	0.000	0.016
3472	742261.22	4707077.36	716.54	-8.408	-1.354	-122.414	0.008	0.002	0.015
3473	742080.41	4706907.76	693.77	7.815	21.757	-125.174	-0.021	-0.003	-0.042

EM.= 0.019

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3047-3048.abs  
 Fecha: 15/3/2007 14:31

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

741886.234 4707133.363 1791.496  
 9.055880815647290  
 -0.978535675089131 -0.205899756266191 0.008557040807553 Omega: -0.8715  
 0.205994056353819 -0.978477349992505 0.012187054547550 Phi: 0.3733  
 0.005863559052209 0.013688167195368 0.999889120229875 Kappa: -186.7912

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

741886.234 4707133.363 1791.496  
 -0.978535675089131 0.205994056353819 0.005863559052209 Omega: -0.7759  
 -0.205899756266191 -0.978477349992505 0.013688167195368 Phi: 0.5448  
 0.008557040807553 0.012187054547550 0.999889120229875 Kappa: 186.7971

IMAGEN DERECHA

741583.133 4707186.710 1789.862  
 -0.977657772755390 0.210175466643931 0.003398910410137 Omega: -1.1319  
 -0.210076223494386 -0.977502020831175 0.018915062603801 Phi: 0.4646  
 0.007297923903887 0.017778427713803 0.999815316853427 Kappa: 186.5254

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3491	741580.52	4707120.38	716.09	32.045	6.727	-119.056	0.024	-0.017	0.093
3492	741525.81	4706715.38	700.51	28.731	51.708	-121.366	-0.005	-0.003	0.028
3481	741788.19	4706554.08	700.90	-3.290	63.171	-121.289	-0.013	-0.004	0.009
3482	741828.11	4707040.35	706.91	3.462	9.736	-119.929	-0.003	0.038	-0.032
3493	741498.82	4706979.51	707.92	37.661	23.793	-120.203	-0.003	-0.014	-0.097

EM.= 0.053

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3048-3049.abs  
 Fecha: 15/3/2007 14:33

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

741583.503 4707186.235 1790.045  
 8.759165338514386  
 -0.977638227020951 -0.210155834381802 0.007617239829491 Omega: -1.1816  
 0.210259488009524 -0.977491737695870 0.017345040740289 Phi: 0.2420  
 0.003800627488214 0.018558771823537 0.999820547507950 Kappa: -186.5137

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

741583.503 4707186.235 1790.045  
 -0.977638227020951 0.210259488009524 0.003800627488214 Omega: -1.1043  
 -0.210155834381802 -0.977491737695870 0.018558771823537 Phi: 0.4849  
 0.007617239829491 0.017345040740289 0.999820547507950 Kappa: 186.5202

IMAGEN DERECHA

741280.079 4707241.527 1786.965  
 -0.977468628810001 0.210995276994566 0.006006061794859 Omega: -0.6020  
 -0.210921979157195 -0.977441338993493 0.010970302412394 Phi: 0.5211  
 0.008185255079062 0.009456316015962 0.999921786784695 Kappa: 186.4702

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2242	741202.52	4706603.73	721.92	28.076	71.888	-123.411	0.002	0.046	0.033
3491	741580.52	4707120.38	716.09	-1.714	5.146	-122.722	0.002	0.005	0.011
2332	741104.02	4706899.09	709.39	46.157	41.257	-124.333	0.016	-0.020	-0.036
8005	741191.55	4706606.25	722.58	29.360	71.862	-123.334	-0.025	-0.032	-0.012
3492	741525.81	4706715.38	700.51	-5.335	51.621	-125.350	0.008	-0.006	0.010
3511	741169.79	4707204.81	721.41	46.158	5.588	-122.306	-0.002	-0.003	0.029
3493	741498.82	4706979.51	707.92	4.019	22.810	-123.998	-0.001	0.010	-0.036

EM.= 0.026

Nombre del modelo: C:\Trabajos\03-2007\T07-17\3049-3050.abs  
 Fecha: 15/3/2007 14:34

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

741279.876 4707242.127 1786.876  
 8.691804395420769  
 -0.977451319311839 -0.211010983338072 0.007955079273407 Omega: -0.7262  
 0.211084600752733 -0.977417127176704 0.009952428180972 Phi: 0.3613  
 0.005675359072808 0.011407208788231 0.999918829649215 Kappa: -186.4599

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

741279.876 4707242.127 1786.876  
 -0.977451319311839 0.211084600752733 0.005675359072808 Omega: -0.6336  
 -0.211010983338072 -0.977417127176704 0.011407208788231 Phi: 0.5064  
 0.007955079273407 0.009952428180972 0.999918829649215 Kappa: 186.4644

IMAGEN DERECHA

740975.756 4707287.267 1784.561  
 -0.978642519027988 0.205375463591456 0.008929664335726 Omega: 0.3309  
 -0.205412468967706 -0.978669459886556 -0.003435968269339 Phi: 0.5114  
 0.008033526196212 -0.005196849040661 0.999954226560848 Kappa: 186.8289

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
2242	741202.52	4706603.73	721.92	-7.498	72.278	-123.315	0.028	0.065	-0.015
3512	740966.02	4706938.45	712.80	27.211	40.352	-124.198	-0.083	-0.051	-0.008
2332	741104.02	4706899.09	709.39	10.743	41.428	-124.509	0.008	-0.022	0.000
8005	741191.55	4706606.25	722.58	-6.206	72.251	-123.249	-0.015	-0.015	0.023
3511	741169.79	4707204.81	721.41	10.779	5.474	-122.715	0.010	0.030	-0.006
2221	741021.02	4707199.10	724.15	27.374	9.728	-122.542	0.026	-0.007	-0.023
3513	741029.63	4707312.37	731.94	29.162	-3.208	-121.514	0.026	0.001	0.029

EM.= 0.038

Nombre del modelo: G:\T07-17\3050-3051.abs  
 Fecha: 12/3/2007 19:44

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 744147.933 4707648.937 1782.925  
 7.730626355257377  
 0.995858901565724 0.084217260781971 0.034241804255772 Omega: -0.4263  
 -0.083934807977054 0.996424938435847 -0.009606772245277 Phi: -2.2241  
 -0.034928443740943 0.006692910390778 0.999367404295506 Kappa: 5.3530

RESULTADOS DE LA ORIENTACIÓN EXTERNA  
 IMAGEN IZQUIERDA  
 744147.933 4707648.937 1782.925  
 0.995858901565724 -0.083934807977054 -0.034928443740943 Omega: 0.6120  
 0.084217260781971 0.996424938435847 0.006692910390778 Phi: 2.1803  
 0.034241804255772 -0.009606772245277 0.999367404295506 Kappa: -5.3710

IMAGEN DERECHA  
 744451.439 4707596.603 1778.458  
 0.995394440236377 -0.092678311733178 -0.024507935057810 Omega: 0.4738  
 0.092831587313447 0.995668299896973 0.005189699137377 Phi: 1.5230  
 0.023920801478540 -0.007440908181036 0.999686164824774 Kappa: -5.9201

PUNTO -XT- -YT- -ZT- -xi- -yi- -zi- -Ex- -Ey- -Ez-  
 4531 744445.52 4708200.18 700.27 37.239 73.359 -139.327 0.015 -0.024 0.006  
 3401 744315.67 4706996.92 689.04 33.629 -83.160 -139.861 -0.000 -0.003 0.026  
 5094 744322.17 4706996.62 689.03 34.470 -83.125 -139.826 -0.005 -0.028 -0.026  
 4532 744470.70 4707195.91 686.98 51.447 -55.826 -139.686 0.018 0.011 0.009  
 40532 744464.88 4707602.02 702.34 46.225 -3.536 -138.227 -0.028 0.044 -0.015

EM.= 0.028

Nombre del modelo: C:\Trabajos\03-2007\T07-17\4052-4053.abs  
 Fecha: 15/3/2007 16:16

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 744452.272 4707596.976 1778.442  
 8.606982463043673  
 0.995375737366139 0.092839154292922 0.024658322996306 Omega: -0.3086  
 -0.092689061347632 0.995669329144235 -0.007164140420404 Phi: -1.6055  
 -0.025216648653420 0.004845454740620 0.999670266737511 Kappa: 5.9111

RESULTADOS DE LA ORIENTACIÓN EXTERNA  
 IMAGEN IZQUIERDA  
 744452.272 4707596.976 1778.442  
 0.995375737366139 -0.092689061347632 -0.025216648653420 Omega: 0.4562  
 0.092839154292922 0.995669329144235 0.004845454740620 Phi: 1.5700  
 0.024658322996306 -0.007164140420404 0.999670266737511 Kappa: -5.9207

IMAGEN DERECHA  
 744755.774 4707548.803 1778.454  
 0.995293010922999 -0.095503997658010 -0.016456270512162 Omega: -0.3269  
 0.095404400996184 0.995415803561930 -0.006736340973783 Phi: 1.0838  
 0.017024179228080 0.005134632459556 0.999841893936794 Kappa: -6.0838

PUNTO -XT- -YT- -ZT- -xi- -yi- -zi- -Ex- -Ey- -Ez-  
 3391 744750.32 4707382.77 680.60 39.989 -22.182 -126.480 0.020 -0.008 0.014  
 3401 744315.67 4706996.92 689.04 -6.144 -71.510 -126.425 0.003 0.066 0.024  
 4531 744445.52 4708200.18 700.27 -4.116 69.100 -125.748 -0.021 -0.000 0.005  
 4541 744719.22 4707903.42 771.46 30.526 37.761 -116.448 -0.035 0.021 0.007  
 5094 744322.17 4706996.62 689.03 -5.389 -71.475 -126.407 0.005 0.066 0.026  
 4532 744470.70 4707195.91 686.98 9.648 -46.805 -126.375 -0.007 -0.053 -0.070  
 4542 744776.77 4707136.58 670.42 45.727 -50.373 -127.379 0.035 -0.091 -0.006

EM.= 0.047

Nombre del modelo: C:\Trabajos\03-2007\T07-17\4053-4054.abs  
 Fecha: 15/3/2007 15:35

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 744756.043 4707549.153 1778.633  
 8.462189165268207  
 0.995275440669594 0.095553828651891 0.017212292988183 Omega: 0.4503

-0.095659972602812 0.995399144867631 0.005450875014083 Phi: -1.0576  
 -0.016612249744550 -0.007071649507358 0.999836999181201 Kappa: 6.1001

RESULTADOS DE LA ORIENTACIÓN EXTERNA  
 IMAGEN IZQUIERDA  
 744756.043 4707549.153 1778.633  
 0.995275440669594 -0.095659972602812 -0.016612249744550 Omega: -0.3471  
 0.095553828651891 0.995399144867631 -0.007071649507358 Phi: 1.0958  
 0.017212292988183 0.005450875014083 0.999836999181201 Kappa: -6.0933

IMAGEN DERECHA  
 745059.628 4707505.156 1778.276  
 0.994903407780466 -0.100703116824556 -0.005107978918838 Omega: -0.6474  
 0.100644050403487 0.994864544127276 -0.010738433629157 Phi: 0.3924  
 0.006163140854772 0.010169616524106 0.999929294797666 Kappa: -6.4182

PUNTO -XT- -YT- -ZT- -xi- -yi- -zi- -Ex- -Ey- -Ez-  
 3391 744750.32 4707382.77 680.60 3.366 -18.722 -129.865 -0.021 0.033 0.082  
 4551 745101.76 4707880.38 728.48 38.977 43.746 -123.163 0.014 -0.029 0.001  
 4542 744776.77 4707136.58 670.42 9.274 -47.373 -131.157 0.031 0.016 -0.047  
 4552 745084.17 4707135.08 672.89 45.443 -44.075 -130.246 0.008 -0.028 -0.007  
 4541 744719.22 4707903.42 771.46 -6.355 42.098 -118.844 -0.032 0.007 -0.028

EM.= 0.044

Nombre del modelo: C:\Trabajos\03-2007\T07-17\4054-4055.abs  
 Fecha: 15/3/2007 15:36

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 745058.749 4707504.797 1778.249  
 8.017618540098075  
 0.994901009786471 0.100715371633634 0.005328662361086 Omega: 0.6613  
 -0.100764357873487 0.994861048991910 0.009901382785285 Phi: -0.2740  
 -0.004304057179367 -0.010387834972502 0.999936781989932 Kappa: 6.4258

RESULTADOS DE LA ORIENTACIÓN EXTERNA  
 IMAGEN IZQUIERDA  
 745058.749 4707504.797 1778.249  
 0.994901009786471 -0.100764357873487 -0.004304057179367 Omega: -0.6304  
 0.100715371633634 0.994861048991910 -0.010387834972502 Phi: 0.3392  
 0.005328662361086 0.009901382785285 0.999936781989932 Kappa: -6.4227

IMAGEN DERECHA  
 745362.199 4707455.607 1778.346  
 0.994015253705610 -0.109015469148904 0.007021601442353 Omega: -0.0347  
 0.109016609691393 0.994039903556081 0.000221245594072 Phi: -0.4459  
 -0.007003871212801 0.000545549688527 0.999975323777328 Kappa: -6.9542

PUNTO -XT- -YT- -ZT- -xi- -yi- -zi- -Ex- -Ey- -Ez-  
 4551 745101.76 4707880.38 728.48 1.182 48.503 -130.433 -0.008 0.007 0.005  
 4561 745408.91 4707540.89 696.85 43.577 10.281 -134.591 0.003 -0.026 -0.012  
 4552 745084.17 4707135.08 672.89 8.396 -44.126 -138.298 -0.010 0.008 0.004  
 3372 745288.88 4707077.38 675.33 34.519 -48.717 -137.922 0.012 0.008 -0.045  
 8003 745351.54 4707105.09 702.66 41.932 -44.526 -134.450 0.004 0.002 0.048

EM.= 0.027

Nombre del modelo: C:\Trabajos\03-2007\T07-17\4055-4056.abs  
 Fecha: 15/3/2007 15:38

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA  
 745362.788 4707455.596 1778.412  
 8.906570832388784  
 0.994026208626005 0.108949979190768 -0.006465183596843 Omega: -0.0107  
 -0.108948769990390 0.994047219169340 0.000539980817848 Phi: 0.4129  
 0.006485528674729 0.000167618715542 0.999978954689435 Kappa: 6.9498

RESULTADOS DE LA ORIENTACIÓN EXTERNA  
 IMAGEN IZQUIERDA



**DOCUMENTO TÉCNICO PARA INFORMACIÓN PÚBLICA**

**Proyecto de Trazado. Acondicionamiento de la Carretera N-260. Eje Pirenaico, P.K. 449,600 al P.K. 463,600. Tramo: Túnel de Balupor – Fiscal.**

745362.788 4707455.596 1778.412  
 0.994026208626005 -0.108948769990390 0.006485528674729 Omega: -0.0344  
 0.108949979190768 0.994047219169340 0.000167618715542 Phi: -0.4116  
 -0.006465183596843 0.000539980817848 0.999978954689435 Kappa: -6.9499

IMAGEN DERECHA

745666.959 4707405.011 1778.330  
 0.993367431727598 -0.114602968356285 0.009343726603723 Omega: -0.0573  
 0.114606373214151 0.993410967142340 0.000171988427444 Phi: -0.5922  
 -0.009301870866426 0.000900002915900 0.999956331643105 Kappa: -7.3125

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
4561	745408.91	4707540.89	696.85	3.319	10.068	-121.457	-0.030	-0.042	-0.030
3372	745288.88	4707077.38	675.33	-4.425	-43.144	-123.816	0.003	0.065	-0.004
3362	745683.24	4707193.85	695.25	38.180	-25.316	-121.871	-0.020	0.028	0.099
8003	745351.54	4707105.09	702.66	2.250	-39.278	-120.796	-0.015	0.009	0.031
4571	745696.11	4707062.72	672.92	41.194	-39.786	-124.373	0.062	-0.059	-0.096

EM.= 0.068

Nombre del modelo: C:\Trabajos\03-2007\T07-17\4056-4057.abs  
 Fecha: 15/3/2007 16:09

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

745666.100 4707404.531 1778.415  
 8.682925788157467  
 0.993380600510700 0.114426712461505 -0.010075217330347 Omega: -0.0423  
 -0.114427580785847 0.993431470492249 0.000492129155369 Phi: 0.6408  
 0.010065350689371 0.000664011189114 0.999949122608066 Kappa: 7.3010

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

745666.100 4707404.531 1778.415  
 0.993380600510700 -0.114427580785847 0.010065350689371 Omega: -0.0313  
 0.114426712461505 0.993431470492249 0.000664011189114 Phi: -0.6414  
 -0.010075217330347 0.000492129155369 0.999949122608066 Kappa: -7.3010

IMAGEN DERECHA

745970.080 4707359.081 1780.041  
 0.993700811596675 -0.111037350403980 0.015146083565507 Omega: -0.4671  
 0.111133922357279 0.993789160720342 -0.005688175124364 Phi: -0.9181  
 -0.014420413780323 0.007335587912571 0.999869111842335 Kappa: -7.0904

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3351	745854.80	4707013.24	675.28	25.464	-42.359	-127.283	0.011	-0.061	0.018
3362	745683.24	4707193.85	695.25	3.484	-23.967	-124.770	-0.012	0.054	-0.019
4582	746088.07	4707892.93	716.95	40.610	61.360	-122.704	-0.005	-0.011	0.004
4583	745999.40	4707000.46	678.46	42.182	-41.926	-127.081	0.004	0.027	-0.016
4571	745696.11	4707062.72	672.92	6.656	-38.795	-127.367	0.002	-0.009	0.014

EM.= 0.034

Nombre del modelo: C:\Trabajos\03-2007\T07-17\4057-4058.abs  
 Fecha: 15/3/2007 16:10

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

745970.176 4707359.412 1780.028  
 8.792039682634416  
 0.993703685393255 0.111117983235797 -0.014345014376861 Omega: 0.3789  
 -0.111017975670485 0.993789402082638 0.007591665578771 Phi: 0.9613  
 0.015099493828961 -0.005951311606815 0.999868284913702 Kappa: 7.0830

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

745970.176 4707359.412 1780.028  
 0.993703685393255 -0.111017975670485 0.015099493828961 Omega: -0.4834  
 0.111117983235797 0.993789402082638 -0.005951311606815 Phi: -0.9133  
 -0.014345014376861 0.007591665578771 0.999868284913702 Kappa: -7.0894

IMAGEN DERECHA

746274.660 4707318.833 1782.286  
 0.993662186375805 -0.111160675371351 0.016696215674203 Omega: -0.9144  
 0.111376154680293 0.993698680613568 -0.012581109469588 Phi: -0.9672  
 -0.015192482861134 0.014360933042090 0.999781452151757 Kappa: -7.1060

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
3351	745854.80	4707013.24	675.28	-10.570	-39.837	-125.744	0.029	-0.021	-0.028
4582	746088.07	4707892.93	716.95	4.763	62.514	-120.630	-0.002	0.008	0.000
3342	746262.43	4706886.81	682.51	37.115	-48.982	-125.697	-0.006	-0.012	-0.022
4583	745999.40	4707000.46	678.46	5.946	-39.461	-125.637	-0.014	0.021	0.042
4591	746229.15	4706691.58	668.62	35.795	-71.462	-127.394	-0.007	0.003	0.007

EM.= 0.026

Nombre del modelo: C:\Trabajos\03-2007\T07-17\4058-4059.abs  
 Fecha: 15/3/2007 16:11

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

746274.282 4707318.844 1782.245  
 8.895171912666982  
 0.993654959508469 0.111392695195154 -0.015539913171639 Omega: 0.7981  
 -0.111172977699911 0.993697411638274 0.014353505938607 Phi: 1.0849  
 0.017040847207742 -0.012534813941742 0.999776218943964 Kappa: 7.0932

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

746274.282 4707318.844 1782.245  
 0.993654959508469 -0.111172977699911 0.017040847207742 Omega: -0.9139  
 0.111392695195154 0.993697411638274 -0.012534813941742 Phi: -0.9893  
 -0.015539913171639 0.014353505938607 0.999776218943964 Kappa: -7.1071

IMAGEN DERECHA

746578.842 4707280.302 1781.091  
 0.99380739062009 -0.110739442637997 0.009145831238999 Omega: -0.7480  
 0.110835809325417 0.993780016474732 -0.010802880479814 Phi: -0.5025  
 -0.007892639356149 0.011749668067958 0.999899820754202 Kappa: -7.0708

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
40602	746643.40	4707373.14	871.69	38.809	11.971	-102.901	0.007	-0.003	0.017
30333	746538.38	4706982.94	751.65	31.726	-32.767	-116.838	-0.004	0.023	-0.000
3332	746534.35	4706781.71	683.06	33.658	-55.199	-124.863	0.009	-0.002	-0.014
3342	746262.43	4706886.81	682.51	1.969	-46.856	-124.276	-0.005	-0.059	-0.050
4591	746229.15	4706691.58	668.62	0.666	-69.074	-126.105	-0.007	0.040	0.047

EM.= 0.037

Nombre del modelo: C:\Trabajos\03-2007\T07-17\4059-4060.abs  
 Fecha: 15/3/2007 16:12

RESULTADOS DE LA ORIENTACIÓN ABSOLUTA

```

746579.062 4707280.480 1780.894
8.077902662268695
0.993812872519980 0.110801699103386 -0.007678404091323 Omega: 0.7001
-0.110706120146456 0.993781691168662 0.011920791084134 Phi: 0.5699
0.008951501310130 -0.010996989304166 0.999899463371463 Kappa: 7.0625
  
```

RESULTADOS DE LA ORIENTACIÓN EXTERNA

IMAGEN IZQUIERDA

```

746579.062 4707280.480 1780.894
0.993812872519980 -0.110706120146456 0.008951501310130 Omega: -0.7589
0.110801699103386 0.993781691168662 -0.010996989304166 Phi: -0.4888
-0.007678404091323 0.011920791084134 0.999899463371463 Kappa: -7.0686
  
```

IMAGEN DERECHA

```

746882.565 4707236.728 1778.971
0.993243925534850 -0.115889959045728 0.006001814767367 Omega: -0.2740
0.115912935572498 0.993252736196264 -0.003632272787184 Phi: -0.3527
-0.005540374995280 0.004303420850204 0.999975392104175 Kappa: -7.3960
  
```

PUNTO	-XT-	-YT-	-ZT-	-xi-	-yi-	-zi-	-Ex-	-Ey-	-Ez-
40602	746643.40	4707373.14	871.69	5.637	13.520	-112.467	0.002	-0.001	0.001
40611	746943.60	4707692.37	957.43	38.291	56.794	-101.673	0.003	0.005	0.034
40612	746921.24	4707197.47	840.01	42.191	-4.239	-116.909	0.011	0.004	-0.032
30333	746538.38	4706982.94	751.65	-2.065	-35.756	-127.791	-0.026	-0.044	-0.096
3332	746534.35	4706781.71	683.06	0.117	-60.485	-136.597	0.010	0.036	0.093

EM.= 0.055

Nombre del modelo: G:\T07-17\4060-4061.abs  
 Fecha: 12/3/2007 19:44

### 8.3.CONTROL DE LA RESTITUCIÓN

#### *.- PAC*

Los trabajos que se han desarrollado para comprobar la calidad de la Restitución

Antes de iniciar la restitución

- Contrastar que cada modelo estereoscópico contiene un mínimo de cinco puntos de apoyo distribuidos homogéneamente
- Comprobar que se ha elaborado un croquis de cada uno de los mismos
- Comprobar que los negativos se encuentran en perfecto estado
- Elaborar un gráfico de modelos para elegir los más idóneos y contrastar que no existen errores groseros

Durante la fase de restitución

- Comprobar que los ajustes de los modelos son correctos y verificar los residuos de las orientaciones
- Comprobar que se elabora el correspondiente protocolo de cada modelo
- Comprobar el caso tipológico de elementos entre modelos
- Comprobar que el ámbito de restitución se ajusta a la zona solicitada

## TOPOGRAFÍA

### 1. MEMORIA DESCRIPTIVA

#### INTRODUCCIÓN

En el presente apartado se describen los trabajos realizados en la fase denominada Topografía. Las labores desarrolladas en la misma, se han enlazado en coordenadas a la Red Básica implantada en la fase anterior, pero dado el tiempo transcurrido entre la ejecución de una y otra, el vértice de la Red Básica **V-8006**, ha desaparecido, habiéndose reemplazado con un nuevo vértice implantado en las proximidades de aquél y al cual se le ha denominado **V-8006B**, adjuntándose en el apartado correspondiente la nueva reseña.

#### TRABAJOS REALIZADOS

- Implantación de una Red de Bases de Replanteo.
- Obtención de taquimetría de detalle
- Definición de obras de drenaje, alineaciones y tendidos aéreos.

#### RED DE BASES DE REPLANTEO

Se ha situado en el terreno una red de bases de replanteo, materializadas todas ellas de forma permanente con objeto de que los futuros trabajos (replanteo de estructuras, toma de datos, etc...) puedan enlazarse a la mismas y a su vez queden enlazados a la cartografía base.

Las bases se han situado en lugares de segura permanencia y con dominio visual de la zona a replantear. Aunque observadas con metodología G.P.S. tienen intervisibilidad por si se emplean con metodología de observación directa (ángulos y distancias).

En el punto 2.4 se incluyen las reseñas levantadas para su localización. En cada reseña aparece el nombre, nº de cálculo, provincia, municipio, H.M.N., anamorfosis, coordenadas U.T.M. (X, Y, Z), situación, tipo de señal, fotografía y croquis.

Las bases se han numerado correlativamente desde la **BR-1** (número de cálculo 1) a **BR-55** (número de cálculo 55).

#### NIVELACIÓN GEOMÉTRICA

Situadas las bases se obtuvo la cota de las mismas mediante itinerarios geométricos, habiéndose nivelado de forma directa todas ellas excepto la BR-18, a la cual se la transmitió cota mediante desniveles parciales obtenidos de las observaciones G.P.S. desde bases niveladas.

Los itinerarios han sido encuadrados entre vértices de la Red Básica, bien clavos N.A.P. o vértices nivelados en aquella fase o se han observado dobles es decir ida y vuelta.

En los itinerarios se han utilizado niveles de características técnicas recogidas en el apartado 3.2, y sistema de observación punto medio.

Se adjunta un cuadro con la indicación de todos los datos referentes a cada anillo (longitud, tolerancia, error de cierre).

#### REVISIÓN Y ACTUALIZACIÓN DE CARTOGRAFÍA.

Debido a que los trabajos iniciales se realizaron utilizando el sistema de referencia geodésico ED50, vigente en las fechas en las que se realizaron los encargos. Se realizan nuevos trabajos de campo a fecha noviembre 2015, para actualizar la cartografía y bases al sistema de referencia geodésico ETRS89, sistema de referencia oficial en España según recoge el Real Decreto 1071/2007.

Para la actualización y revisión de la cartografía se tomaron una serie de puntos singulares a lo largo de la traza en el sistema de referencia geodésico ETRS89, de esta manera se crea un sistema de transformación local tipo Helmert (transformación de semejanza de 7 parámetros) de ED50 a ETRS89. Este sistema de transformación se aplica a toda la cartografía obtenida inicialmente.

Complementario a la transformación descrita, se realiza una actualización de cartografía de las zonas que han sufrido modificación. En concreto se realiza taquimétricos de



detalle en la glorieta de enlace de la N-260 Fiscal - Puente De Sabiñanigo y en la zona del cauce en el Barranco de Guargas. Se realiza revisión de campo, modificando sobre cartografía las modificaciones vistas en toda la traza, ( biondas, líneas eléctricas,...)

### **OBSERVACIONES**

Para dotar de coordenadas planimétricas a las bases se han observado mediante equipos y metodologías G.P.S.

Mediante la utilización de tres receptores similares a los representados en el punto 3.1 se fueron observando las bases de forma que todas las bases quedaran trianguladas, estacionando un receptor fijo y desplazándose a las bases con dos receptores móviles.

El punto de estación del receptor fijo, ha quedado materializado de manera permanente adjuntándose una reseña de estructura similar a las elaboradas para las bases de replanteo.

Para poder transformar las coordenadas resultantes de las observaciones (WGS-84) a las buscadas U.T.M. ED-50, así como para poder realizar las compensaciones tanto planimétricas como altimétricas se han observado y empleado vértices de la Red Básica.

Los datos registrados en campo se depuraron en la fase de cálculo siguiendo los condicionantes que a continuación se expresan:

- Eliminación de satélites cuyo movimiento sobre el horizonte, en el tiempo común de los ficheros, puestos en relación no es completo.
- Eliminación de los satélites que no hubieran seguido una trayectoria estable en el tiempo en común entre los dos receptores, produciéndose altibajos en su órbita.
- Eliminación de satélites de los que se hubiera perdido la señal de recepción.
- Eliminación de satélites con elevación menor de 15º sobre el horizonte.
- Eliminación de observaciones con menos de cuatro satélites.

- Comienzo del tiempo de observación para un PDOP de, al menos, 3.
- Tiempo mínimo de observación entre bases de 10 minutos (L1/L2/P).
- Establecimiento de un Ratio mínimo de 1,5.

### **TRABAJOS COMPLEMENTARIOS**

Común a todos ellos han sido los equipos y metodología empleados (GPS en tiempo real) y tomar como soporte la Red de Bases de Replanteo. Los trabajos complementarios han consistido en

#### **Definición de los entronques con carreteras existentes.**

Las carreteras actuales que entroncan con los futuros ejes se han definido mediante la toma de coordenadas en los bordes de asfalto y líneas blancas de las mismas, en ambos bordes y longitud suficiente para poder obtener la geometría de cada una.

El apartado 5.3.1 recoge las coordenadas de cada punto y un texto identificativo y su correspondiente reportaje fotográfico.

#### **Definición de tendidos aéreos**

Se han situado por coordenadas los elementos sustentantes (torres, postes), tomándose cota terreno y sobre cable en cada punto, obteniendo así el gálibo del tendido. Completando la información las fotos obtenidas.

#### **Taquimetría de detalle**

- a) En las zonas donde el personal técnico encargado del desarrollo del Proyecto ha considerado que era necesario obtener una definición del terreno superior a la facilitada por la cartografía, se han tomado en campo las coordenadas de los puntos necesarios para poder dibujar planos a escala 1:500 con equidistancia de curvas de 0.5 m.

b) En dichos planos la planimetría refleja todos los detalles identificables, en su exacta posición y verdadera forma con dimensión mínima de 1 Mm. a la escala de salida gráfica, siendo objeto de representación mediante un símbolo convencional normalizado los restantes elementos que por su tamaño no son susceptibles de representar en verdadera magnitud. En todos se ha dibujado el eje de la traza y los P.K. que abarca cada levantamiento.

El relieve se representa por curvas de nivel ya citadas, si bien se incluyen numerosas cotas de los puntos tomados para realzar la información altimétrica.

#### **Obras de Drenaje**

Las obras de drenaje situadas en el ámbito de los levantamientos de detalle, se han definido mediante la toma de coordenadas sobre sus puntos mas representativos para situarlas espacialmente completando la información con alzados acotados de ambas caras y tomas fotográficas.

## 2. RED DE BASES DE REPLANTEO

### 2.1. NIVELACIÓN GEOMÉTRICA

#### 2.1.1. Reseñas de los Clavos utilizados

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Subdirección General de Geodesia y Geofísica

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### Reseña de Señal de Nivelación

07-jun-05



Datos de la Señal			
Número:	555081	Nombre:	SSK 464,1
Anterior:	555080	Posterior:	555082
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fechas	Señalización: 14-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	762,05613 m
Latitud WGS84:	42° 30' 12"	Geopotencial:	746,94064 u.g.p.
Hoja MTN50:	178	Gravedad en superficie:	980132,55 mgals. Observada
Provincia:	Huesca	Municipio:	Broló

**Reseña**




Clavo metálico semiestático incrustado aproximadamente en el Km. 464,150 en la margen izquierda de la Carretera N-260 de Biescas a Aínsa, con dirección a Aínsa, sobre la coronación de la imposta de una alcantarilla, por detrás de la bionda, a 0,10 m. de la arista exterior, y a 3 m. del eje de la alcantarilla, según croquis.

**Observaciones**

#### CARRETERA N-260. TRAMO FISCAL - BALUPOR

#### HUESCA RESEÑA DE VÉRTICE

<p><b>Nombre:</b> V.8008</p> <p><b>Numero:</b> 8008</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> Hito en hormigón</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p>COORDENADAS ED50</p> <table style="width: 100%; font-size: small;"> <thead> <tr> <th colspan="2">GEOGRÁFICAS</th> <th colspan="2">UTM (Huso 30)</th> </tr> </thead> <tbody> <tr> <td>Longitud:</td> <td>0° 07' 59.9403" O</td> <td>X:</td> <td>735575.209 m</td> </tr> <tr> <td>Latitud:</td> <td>42° 29' 49.0645" N</td> <td>Y:</td> <td>4709022.780 m</td> </tr> <tr> <td></td> <td></td> <td>H:</td> <td>873.356 m</td> </tr> <tr> <td>Convergencia (°):</td> <td colspan="3">1° 56' 14.8900"</td> </tr> <tr> <td>Anamorfosis:</td> <td colspan="3">1.000282</td> </tr> </tbody> </table>	GEOGRÁFICAS		UTM (Huso 30)		Longitud:	0° 07' 59.9403" O	X:	735575.209 m	Latitud:	42° 29' 49.0645" N	Y:	4709022.780 m			H:	873.356 m	Convergencia (°):	1° 56' 14.8900"			Anamorfosis:	1.000282		
GEOGRÁFICAS		UTM (Huso 30)																							
Longitud:	0° 07' 59.9403" O	X:	735575.209 m																						
Latitud:	42° 29' 49.0645" N	Y:	4709022.780 m																						
		H:	873.356 m																						
Convergencia (°):	1° 56' 14.8900"																								
Anamorfosis:	1.000282																								
<p><b>Situación:</b></p> <p>Hito hormigonado del tramo anterior (en obras), en la carretera de Fiscal a Lardies, y 50 m antes del comienzo de las obras</p>	<p><b>Sistema Geodésico de Referencia ETRS 89</b></p> <p>ELIPSOIDE WGS84</p> <table style="width: 100%; font-size: small;"> <thead> <tr> <th colspan="2">GEOGRÁFICAS</th> <th colspan="2">UTM</th> </tr> </thead> <tbody> <tr> <td>Longitud:</td> <td>0° 08' 04.3444" O</td> <td>X:</td> <td>735468.018 m</td> </tr> <tr> <td>Latitud:</td> <td>42° 29' 45.0949" N</td> <td>Y:</td> <td>4708812.703 m</td> </tr> <tr> <td></td> <td></td> <td>U:</td> <td>925.364 m</td> </tr> </tbody> </table>	GEOGRÁFICAS		UTM		Longitud:	0° 08' 04.3444" O	X:	735468.018 m	Latitud:	42° 29' 45.0949" N	Y:	4708812.703 m			U:	925.364 m								
GEOGRÁFICAS		UTM																							
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Latitud:	42° 29' 45.0949" N	Y:	4708812.703 m																						
		U:	925.364 m																						
<p><b>Referencias:</b></p> <p>a= 0,15 estaca</p> <p>b= 0,22 estaca</p> <p>c= 0,37 estaca</p>																									
																									



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**Reseña de Señal de Nivelación**

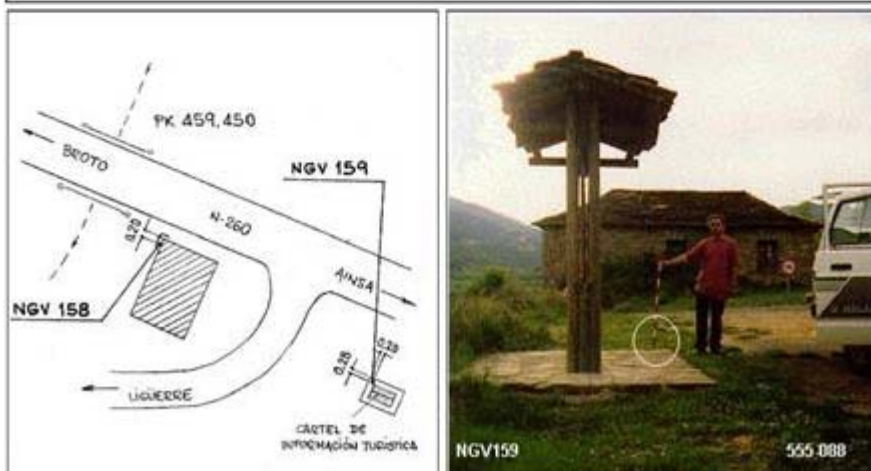
07/jun-05

Datos de la Señal			
Número:	555088	Nombre:	NGV159
Anterior:	555087	Posterior:	555089
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navari
Señal:	Principal	Agrupada con:	555087 - NGV158
En posición Vertical			
Fecha:	Señalización: 14-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	732,19711 m.
Latitud WGS84:	42° 28' 47"	Geopotencial:	717,67868 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980140,37 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
Clavo metálico con la inscripción NG V 159 incrustado aproximadamente en el Km 459,4 en la margen S. de la Carretera N-260 de Biescas a Ainsa, sobre una base de piedras sujetas con cemento, de un cartel de información de los senderos de la comarca del Sobrarbe, de la Diputación prov. de Huesca, según croquis.

**Observaciones**



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**Reseña de Señal de Nivelación**

07/jun-05

Datos de la Señal			
Número:	555092	Nombre:	SSK 456,5
Anterior:	555091	Posterior:	555093
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navari
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fecha:	Señalización: 14-may-99	Nivelación:	Cálculo: 01-feb-04


Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	691,67571 m.
Latitud WGS84:	42° 28' 30"	Geopotencial:	677,96610 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980149,51 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
Clavo metálico semiestático incrustado aproximadamente en el Km. 456,550 en la margen N. de la Carretera N-260 de Biescas a Ainsa, en la coronación de la imposta de un puente, a 0,16 m. de la arista exterior, según croquis.

**Observaciones**







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### Reseña de Señal de Nivelación

07-jun-05

Datos de la Señal			
Número:	555093	Nombre:	NAPJ74
Anterior:	555092	Posterior:	555094
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	555094 - NAPJ75
En posición Horizontal			
Fecha:	Señalización: 01-nov-72	Nivelación:	Cálculo: 01-feb-04

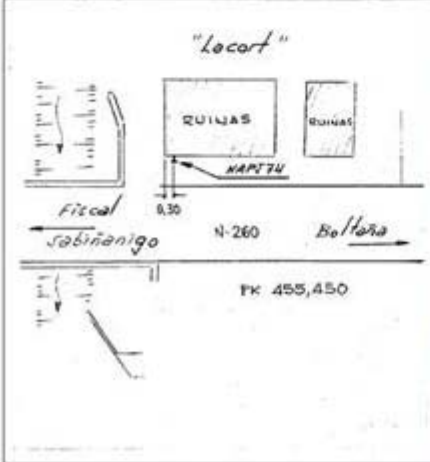
Datos Geográficos			
Longitud WGS84:	Altura ortométrica:	688,20988 m.	
Latitud WGS84:	Geopotencial:	674,57008 u.g.p.	
Hoja MTN50:	Gravedad en superficie:	880151,57 mgals.	Calculada
Provincia:	Municipio:	Fiscal	

**Reseña**


Clavo metálico con la inscripción NAP J 75 incrustado aproximadamente en el Km. 455,450 en la margen izquierda de la Carretera N-260 de Biescas a Ainsa, a 0,30 m. de la esquina S.O. de una casa abandonada en Locort, 0,25 m. sobre el suelo, según croquis.

**Observaciones**

Es la antigua señal NAP J 74, folio 46- de la línea n° 122, de Sabiñánigo a Benabarra, de 1972.







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### Reseña de Señal de Nivelación

07-jun-05

Datos de la Señal			
Número:	555094	Nombre:	NAPJ75
Anterior:	555093	Posterior:	555095
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Principal	Agrupada con:	555093 - NAPJ74
En posición Vertical			
Fecha:	Señalización: 01-nov-72	Nivelación:	Cálculo: 01-feb-04


Datos Geográficos			
Longitud WGS84:	Altura ortométrica:	689,03222 m.	
Latitud WGS84:	Geopotencial:	675,37597 u.g.p.	
Hoja MTN50:	Gravedad en superficie:	880151,32 mgals.	Observada
Provincia:	Municipio:	Fiscal	

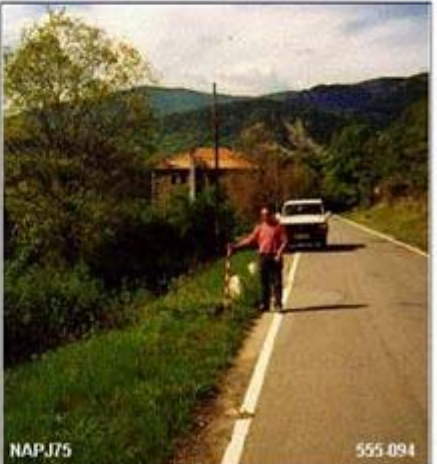
**Reseña**

Clavo metálico con la inscripción NAP J 75 incrustado aproximadamente en el Km. 455,2 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, en el centro de la imposta de una alcantarilla, según croquis.

**Observaciones**

Es la antigua señal NAP J 75, folio 47- de la línea n° 122, Sabiñánigo a Benabarra, de 1972.







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**Reseña de Señal de Nivelación**

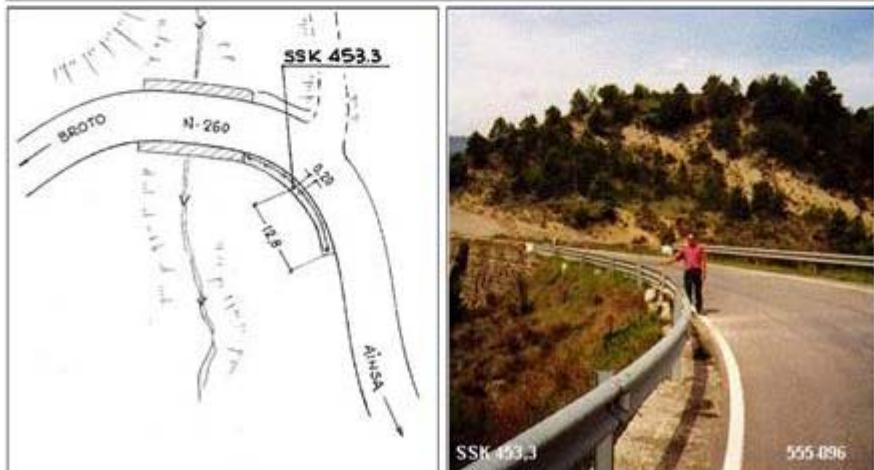
07-jun-05

Datos de la Señal			
Número:	555096	Nombre:	SSK 453,3
Anterior:	555095	Posterior:	555097
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fecha	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	672,67422 m.
Latitud WGS84:	42° 28' 32"	Geopotencial:	656,34410 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980154,56 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
Clavo metálico semiesférico incrustado aproximadamente en el Km. 453,3 en la margen derecha de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en la coronación de un muro de contención de hormigón, por detrás de la bienda, a 0,10 m. de la arista exterior y a 12,80 m. del extremo E. del muro.

**Observaciones**



Ministerio de Fomento  
Subsecretaría

General Ibañez de Ibero, 3  
28003 MADRID

Dirección General del Instituto Geográfico Nacional  
Subdirección General de Geodesia y Geofísica

**Reseña de Señal de Nivelación**

07-jun-05

Datos de la Señal			
Número:	555100	Nombre:	SSK 450,6
Anterior:	555099	Posterior:	555101
Línea o Ramal:	555	Nombre:	Sabiñánigo - Navarrí
Señal:	Secundaria	Agrupada con:	
En posición Vertical			
Fecha	Señalización: 17-may-99	Nivelación:	Cálculo: 01-feb-04

Datos Geográficos			
Longitud WGS84:		Altura ortométrica:	685,15505 m.
Latitud WGS84:	42° 28' 04"	Geopotencial:	671,57276 u.g.p.
Hoja MTN50:	211	Gravedad en superficie:	980147,30 mgals. Observada
Provincia:	Huesca	Municipio:	Fiscal

**Reseña**  
Clavo metálico semiesférico incrustado aproximadamente en el Km. 450,6 de la margen S. de la Carretera N-260 de Biescas a Ainsa, sobre una roca nativa, a 1,70 m. del borde de la calzada y 2,10 m. al O. del poste de tño. nº 91, según croquis.

**Observaciones**



2.1.2. Libreta de campo

Punto	Espalda	Frente
<b>SSK464,1</b>	0,894	
	0,629	2,567
	2,028	1,902
	2,306	0,633
<b>BR-1</b>	2,550	0,904
	1,908	0,893
	0,638	0,605
	0,904	2,041
<b>SSK464,1</b>		2,311

Punto	Espalda	Frente
<b>BR-1</b>	0,778	
	1,144	2,084
	2,285	1,815
	2,161	0,357
<b>BR-2</b>	2,080	1,021
	1,805	0,778
	0,363	1,141
	1,021	2,274
<b>BR-1</b>		2,166

Punto	Espalda	Frente
<b>BR-2</b>	2,560	
	2,890	0,595
	2,022	0,192
<b>BR-3</b>	0,591	1,116
	0,195	2,560
	1,116	2,885
<b>BR-2</b>		2,024

Punto	Espalda	Frente
<b>BR-3</b>	1,849	
	2,627	0,853
	2,253	0,812
	1,297	0,663
<b>BR-4</b>	0,861	1,465
	0,814	1,849
	0,663	2,634
	1,466	2,254

Punto	Espalda	Frente
<b>BR-3</b>		1,296

Punto	Espalda	Frente
<b>BR-4</b>	2,138	
	1,084	0,831
	2,488	2,010
<b>BR-5</b>	0,824	2,472
	2,020	2,139
	2,471	1,076
<b>BR-4</b>		2,495

Punto	Espalda	Frente
<b>BR-5</b>	0,443	
	0,941	2,335
<b>BR-6</b>	2,338	0,158
	0,159	0,442
<b>BR-5</b>		0,943

Punto	Espalda	Frente
<b>BR-6</b>	1,981	
	0,731	4,075
	1,246	2,168
	1,447	1,872
	1,530	1,374
<b>BR-7</b>	4,092	1,540
	2,167	1,981
	1,852	0,746
	1,376	1,240
	1,540	1,429
<b>BR-6</b>		1,532

Punto	Espalda	Frente
<b>BR-7</b>	1,818	
	1,480	2,188
	1,216	2,080
<b>BR-8</b>	2,189	1,819
	2,106	1,819
	1,820	1,482
<b>BR-7</b>		1,240

Punto	Espalda	Frente
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Punto	Espalda	Frente
<b>BR-8</b>	1,015	
	0,955	1,779
	0,371	2,441
	1,622	2,060
<b>BR-9</b>	1,778	1,518
	2,419	1,014
	2,054	0,954
	1,518	0,350
<b>BR-8</b>		1,614

Punto	Espalda	Frente
<b>BR-9</b>	1,662	
	2,666	1,108
<b>V-8007</b>	1,123	1,717
	1,716	1,662
<b>BR-9</b>		2,681

Punto	Espalda	Frente
<b>V-8007</b>	1,528	
<b>BR-10</b>	2,848	2,848
<b>V-8007</b>		1,528

Punto	Espalda	Frente
<b>BR-10</b>	1,272	
	0,059	3,171
	0,273	3,274
	1,940	2,551
	3,272	0,957
<b>BR-11</b>	3,174	0,590
	3,257	1,272
	2,560	0,063
	0,957	0,259
	0,590	1,949
<b>BR-10</b>		3,271

Punto	Espalda	Frente
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Punto	Espalda	Frente
<b>BR-11</b>	0,274	
	0,742	3,249
	2,136	1,478
	2,138	0,892
	1,744	1,054
<b>BR-12</b>	3,256	1,343
	1,472	0,275
	0,910	0,750
	1,054	2,131
	1,343	2,155
<b>BR-11</b>		1,745

Punto	Espalda	Frente
<b>BR-12</b>	2,045	
	1,957	0,951
	1,235	1,510
<b>BR-13</b>	0,942	1,807
	1,519	2,045
	1,807	1,949
<b>BR-12</b>		1,246

Punto	Espalda	Frente
<b>BR-13</b>	1,206	
	1,739	1,687
	1,667	1,477
<b>BR-14</b>	1,681	1,501
	1,490	1,205
	1,501	1,735
<b>BR-13</b>		1,681

Punto	Espalda	Frente
<b>BR-14</b>	0,308	
	0,251	3,327
	0,903	2,962
<b>BR-15</b>	3,329	1,644
	2,954	0,306
	1,644	0,253
<b>BR-14</b>		0,896



Punto	Espalda	Frente
<b>BR-15</b>	0,200	
<b>BR-16</b>	2,500	2,498
<b>BR-15</b>		0,200

Punto	Espalda	Frente
<b>BR-16</b>	0,151	
	0,739	2,659
	1,630	1,728
	1,748	0,957
<b>BR-17</b>	2,657	1,456
	1,708	0,150
	0,953	0,736
	1,456	1,610
<b>BR-16</b>		1,743

Punto	Espalda	Frente
<b>BR-17</b>	2,134	
	0,784	2,239
	1,040	1,982
	1,385	1,769
	2,198	1,521
	2,277	0,796
<b>BR-19</b>	2,231	0,608
	1,977	2,135
	1,762	0,775
	1,522	1,036
	0,804	1,379
	0,608	2,200
<b>BR-17</b>		2,285

Punto	Espalda	Frente
<b>BR-19</b>	1,693	
	2,195	0,684
	1,922	0,784
<b>BR-20</b>	0,677	0,750
	0,747	1,693
	0,750	2,189
<b>BR-19</b>		1,884

Punto	Espalda	Frente
<b>BR-20</b>	0,590	
	0,403	2,463
	0,054	2,885
	0,597	2,942
<b>BR-21</b>	2,458	1,569
	2,902	0,589
	2,904	0,399
	1,570	0,069
<b>BR-20</b>		0,560

Punto	Espalda	Frente
<b>BR-21</b>	0,216	
	0,272	3,380
	0,119	3,372
	0,453	2,966
<b>BR-22</b>	3,395	2,127
	3,387	0,216
	2,954	0,284
	2,124	0,134
<b>BR-21</b>		0,442

Punto	Espalda	Frente
<b>BR-22</b>	0,432	
<b>NGV-159</b>	1,410	1,410
<b>BR-22</b>		0,433

Punto	Espalda	Frente
<b>NGV-159</b>	0,592	
	1,824	2,791
	2,244	1,497
<b>BR-23</b>	2,788	1,635
	1,498	0,592
	1,634	1,820
<b>NGV-159</b>		2,246

Punto	Espalda	Frente
<b>BR-23</b>	1,232	
	1,435	2,818
	2,768	1,560
<b>BR-24</b>	2,827	0,567

Punto	Espalda	Frente
	1,582	1,232
	0,566	1,445
<b>BR-23</b>		2,790

Punto	Espalda	Frente
<b>BR-24</b>	1,646	
	0,584	1,618
	2,726	2,555
<b>BR-25</b>	1,652	0,113
	2,567	1,646
	0,113	0,617
<b>BR-24</b>		2,737

Punto	Espalda	Frente
<b>BR-25</b>	0,052	
	0,114	3,866
	0,268	3,509
	0,760	2,657
	1,218	2,002
	1,536	3,518
<b>BR-26</b>	3,864	1,801
	3,520	0,052
	2,630	0,113
	2,003	0,279
	3,544	0,734
	1,801	1,220
<b>BR-25</b>		1,562

Punto	Espalda	Frente
<b>BR-26</b>	2,134	
	2,426	1,123
	3,338	0,847
<b>BR-27</b>	1,132	0,143
	0,854	2,134
	0,143	2,433
<b>BR-26</b>		3,344

Punto	Espalda	Frente
<b>BR-27</b>	0,049	
	0,405	3,146
	0,839	3,544

Punto	Espalda	Frente
	2,524	3,329
<b>BR-28</b>	3,171	3,827
	3,549	0,049
	3,316	0,431
	3,826	0,843
<b>BR-27</b>		2,514

Punto	Espalda	Frente
<b>BR-28</b>	0,968	
	0,979	4,154
	1,068	2,569
	0,992	3,251
<b>BR-29</b>	4,126	2,797
	2,553	0,967
	3,243	0,949
	2,797	1,053
<b>BR-28</b>		0,984

Punto	Espalda	Frente
<b>BR-29</b>	3,472	
	2,570	0,615
	2,694	3,277
	1,021	2,982
<b>BR-30</b>	0,612	2,634
	3,268	3,472
	2,988	2,567
	2,634	2,685
<b>BR-29</b>		1,025

Punto	Espalda	Frente
<b>BR-30</b>	2,308	
	0,913	2,225
	0,602	1,620
	1,535	2,926
<b>BR-31</b>	2,223	1,417
	1,659	2,308
	2,947	0,910
	1,416	0,642
<b>BR-30</b>		1,555

Punto	Espalda	Frente
<b>BR-31</b>	1,076	
	1,149	1,486
	1,580	1,423

Punto	Espalda	Frente
<b>BR-32</b>	1,490	2,124
	1,441	1,075
	2,123	1,156
<b>BR-31</b>		1,594

Punto	Espalda	Frente
<b>BR-32</b>	0,625	
	1,958	2,329
	1,907	2,899
<b>BR-33</b>	2,308	2,715
	2,913	0,622
	2,714	1,942
<b>BR-32</b>		1,921

Punto	Espalda	Frente
<b>BR-33</b>	0,853	
	1,382	3,062
	1,702	1,321
<b>BR-34</b>	3,080	0,540
	1,334	0,854
	0,540	1,395
<b>BR-33</b>		1,715

Punto	Espalda	Frente
<b>BR-34</b>	2,007	
	2,611	2,503
	0,850	1,830
<b>BR-35</b>	2,508	1,779
	1,873	2,009
	1,780	2,615
<b>BR-34</b>		0,894

Punto	Espalda	Frente
<b>BR-35</b>	0,181	
	0,847	4,136
<b>SSK-456,5</b>	4,149	2,012
	2,011	0,181
<b>BR-35</b>		0,859

Punto	Espalda	Frente
<b>SSK-456,5</b>	2,034	
	1,553	1,738
	1,482	1,634

Punto	Espalda	Frente
<b>BR-36</b>	1,716	1,943
	1,599	2,034
	1,943	1,531
<b>SSK-456,5</b>		1,447

Punto	Espalda	Frente
<b>BR-36</b>	0,967	
	1,039	2,364
	1,066	2,128
<b>BR-37</b>	2,347	1,914
	2,124	0,967
	1,914	1,025
<b>BR-36</b>		1,061

Punto	Espalda	Frente
<b>BR-37</b>	0,628	
<b>BR-38</b>	2,561	2,561
<b>BR-37</b>		0,626

Punto	Espalda	Frente
<b>BR-38</b>	1,208	
	1,849	1,325
	1,955	0,943
	1,905	0,838
<b>BR-39</b>	1,318	0,924
	0,946	1,207
	0,845	1,841
	0,924	1,960
<b>BR-38</b>		1,911

Punto	Espalda	Frente
<b>BR-39</b>	2,578	
	3,174	0,554
	2,979	1,235
<b>BR-40</b>	0,578	1,546
	1,238	2,577
	1,546	3,199
<b>BR-39</b>		2,982

Punto	Espalda	Frente
<b>BR-40</b>	0,385	
	0,620	3,519

Punto	Espalda	Frente
	1,370	3,768
<b>NAPJ-74</b>	3,493	1,323
	3,789	0,384
	1,322	0,596
<b>BR-40</b>		1,390

Punto	Espalda	Frente
<b>NAPJ-75</b>	1,656	
	0,159	4,017
	0,917	3,150
<b>BR-45</b>	4,007	1,986
	3,110	1,658
	1,987	0,149
<b>NAPJ-75</b>		0,876

Punto	Espalda	Frente
<b>BR-41</b>	0,846	
	0,258	3,767
	0,588	3,681
	3,111	1,615
	1,758	1,334
<b>BR-42</b>	3,797	1,117
	3,668	0,846
	1,609	0,288
	1,330	0,575
	1,118	3,106
<b>BR-41</b>		1,754

Punto	Espalda	Frente
<b>BR-42</b>	1,824	
	2,038	1,857
	1,600	1,552
	2,242	2,511
	1,472	1,718
	1,280	1,786
	0,253	3,761
<b>BR-43</b>	1,873	0,931
	1,564	1,825
	2,491	2,052
	1,705	1,609
	1,777	2,222
	3,788	1,463

Punto	Espalda	Frente
	0,931	1,270
<b>BR-42</b>		0,279

Punto	Espalda	Frente
<b>BR-43</b>	0,959	
	3,872	0,307
	1,109	1,540
	3,177	2,545
	1,087	3,551
<b>BR-44</b>	0,280	2,336
	1,527	0,957
	2,532	3,845
	3,550	1,097
	2,335	3,164
<b>BR-43</b>		1,087

Punto	Espalda	Frente
<b>BR-44</b>	3,648	
	1,342	1,045
	0,704	1,222
	1,295	2,596
	0,871	1,905
	0,018	3,743
<b>BR-45</b>	1,024	2,118
	1,216	3,647
	2,613	1,320
	1,889	0,698
	3,771	1,312
	2,119	0,855
<b>BR-44</b>		0,048

Punto	Espalda	Frente
<b>BR-45</b>	1,559	
	1,995	0,963
<b>BR-46</b>	0,955	1,199
	1,197	1,557
<b>BR-45</b>		1,985

Punto	Espalda	Frente
<b>BR-45</b>	1,662	
	2,626	1,056
	3,101	0,094



Punto	Espalda	Frente
	1,505	1,432
	0,793	2,011
	0,126	3,885
<b>BR-47</b>	1,087	3,599
	0,085	1,661
	1,389	2,658
	2,026	3,093
	3,847	1,460
	3,599	0,810
<b>BR-45</b>		0,089

Punto	Espalda	Frente
<b>BR-47</b>	1,191	
	0,420	1,257
	2,430	1,845
<b>BR-48</b>	1,272	3,422
	1,831	1,191
	3,421	0,436
<b>BR-47</b>		2,414

Punto	Espalda	Frente
<b>BR-48</b>	1,252	
	1,469	1,428
	0,351	1,425
	0,226	3,196
	0,758	2,689
<b>BR-49</b>	1,424	1,525
	1,449	1,252
	3,193	1,462
	2,683	0,372
	1,525	0,224
<b>BR-48</b>		0,751

Punto	Espalda	Frente
<b>SSK-453,3</b>	1,922	
	1,953	1,242
	2,448	0,475
	1,454	0,550
	1,465	1,946
	2,370	0,920
	3,628	0,055
	2,801	0,076

Punto	Espalda	Frente
	0,918	1,590
<b>BR-52</b>	1,237	1,904
	0,477	1,922
	0,555	1,950
	1,944	2,449
	0,921	1,455
	0,051	1,466
	0,055	2,369
	1,616	3,623
	1,905	2,782
<b>SSK-453,3</b>		0,943

Punto	Espalda	Frente
<b>BR-52</b>	1,043	
	0,427	2,319
	0,241	3,640
	0,106	3,562
	0,187	3,951
	0,099	4,177
	1,868	4,065
	1,669	1,550
<b>BR-51</b>	2,319	0,988
	3,648	1,049
	3,567	0,434
	3,936	0,227
	4,167	0,096
	4,088	0,211
	1,554	0,103
	0,998	1,880
<b>BR-52</b>		1,670

Punto	Espalda	Frente
<b>BR-51</b>	2,210	
	1,726	2,082
	1,531	1,076
<b>BR-50</b>	2,083	1,548
	1,086	2,218
	1,562	1,739
<b>BR-51</b>		1,530

Punto	Espalda	Frente
<b>BR-52</b>	0,491	

Punto	Espalda	Frente
	0,316	3,590
<b>BR-53</b>	3,597	3,231
	3,230	0,491
<b>BR-52</b>		0,324

Punto	Espalda	Frente
<b>SSK-450,6</b>	0,817	
	0,297	3,485
	0,002	3,902
	0,033	3,988
	0,158	3,938
	0,316	3,458
	0,210	3,700
	0,368	3,980
	0,798	3,185
	1,391	3,900
	1,777	3,534
	1,428	3,963
	1,711	2,308
	1,903	3,688
	1,426	2,056
	1,834	1,374
<b>BR-54</b>	3,471	1,782
	3,939	1,818
	3,982	1,281

Punto	Espalda	Frente
	3,914	1,041
	3,429	1,028
	3,696	1,136
	3,981	1,086
	3,178	0,062
	2,901	0,070
	3,537	0,792
	3,961	0,391
	2,814	0,676
	1,703	0,426
	1,035	0,722
	2,384	0,916
	2,782	0,654
<b>SSK-450,6</b>		0,843

Punto	Espalda	Frente
<b>BR-54</b>	0,599	
	0,939	3,635
	1,178	2,156
	1,276	1,794
<b>BR-55</b>	3,635	2,891
	2,147	0,599
	1,786	0,938
	2,891	1,169
<b>BR-54</b>		1,268

2.1.3. Estudio de errores

Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>SSK 464,1</b>	<b>762,056</b>
<b>SSK-464,1 - BR-1</b>	-0,149	0,150	-0,001	200	0,004	-0,150	<b>BR-1</b>	761,907
<b>BR-1 - BR-2</b>	1,092	-1,090	-0,002	250	0,005	1,091	<b>BR-2</b>	762,998
<b>BR-2 - BR-3</b>	5,568	-5,567	-0,001	200	0,004	5,568	<b>BR-3</b>	768,565
<b>BR-3 - BR-4</b>	4,232	-4,229	-0,003	250	0,005	4,231	<b>BR-4</b>	772,796
<b>BR-4 - BR-5</b>	0,397	-0,395	-0,002	200	0,004	0,396	<b>BR-5</b>	773,192
<b>BR-5 - BR-6</b>	-1,109	1,111	-0,002	100	0,003	-1,110	<b>BR-6</b>	772,082
<b>BR-6 - BR-7</b>	-4,094	4,098	-0,004	250	0,005	-4,096	<b>BR-7</b>	767,986
<b>BR-7 - BR-8</b>	-1,574	1,575	-0,002	100	0,003	-1,574	<b>BR-8</b>	766,412
<b>BR-8 - BR-9</b>	-3,836	3,838	-0,002	250	0,005	-3,837	<b>BR-9</b>	762,575
<b>BR-9 - V-8007</b>	1,502	-1,504	0,001	100	0,003	1,503	<b>V-8007</b>	<b>764,078</b>
							<b>COTA DE V-8007</b>	<b>764,092</b>
				<b>1900</b>	<b>0,014</b>		<b>ERROR</b>	<b>0,014</b>

Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>V-8007</b>	<b>764,092</b>
<b>V-8007 - BR-10</b>	-1,320	1,321	0,000	20	0,001	-1,320	<b>BR-10</b>	762,772
<b>BR-10 - BR-11</b>	-3,727	3,725	0,002	250	0,005	-3,726	<b>BR-11</b>	759,046
<b>BR-11 - BR-12</b>	-0,980	0,979	0,001	250	0,005	-0,979	<b>BR-12</b>	758,066
<b>BR-12 - BR-13</b>	0,968	-0,971	0,002	200	0,004	0,970	<b>BR-13</b>	759,036
<b>BR-13 - BR-14</b>	-0,053	0,051	0,002	150	0,004	-0,052	<b>BR-14</b>	758,984
<b>BR-14 - BR-15</b>	-6,470	6,472	-0,002	150	0,004	-6,471	<b>BR-15</b>	752,513
<b>BR-15 - BR-16</b>	-2,298	2,300	-0,002	100	0,003	-2,299	<b>BR-16</b>	750,214
<b>BR-16 - BR-17</b>	-2,532	2,534	-0,003	200	0,004	-2,533	<b>BR-17</b>	747,681
<b>BR-17 - BR-19</b>	0,903	-0,905	0,003	400	0,006	0,904	<b>BR-19</b>	748,585
<b>BR-19 - BR-20</b>	3,593	-3,593	0,000	150	0,004	3,593	<b>BR-20</b>	752,177
<b>BR-20 - BR-21</b>	-8,215	8,216	-0,001	200	0,004	-8,216	<b>BR-21</b>	743,962
<b>BR-21 - BR-22</b>	-10,785	10,785	0,000	200	0,004	-10,785	<b>BR-22</b>	733,176
<b>BR-22 - NGV-159</b>	-0,978	0,977	0,001	40	0,002	-0,977	<b>NGV-159</b>	<b>732,199</b>
							<b>COTA DE NGV-159</b>	<b>732,197</b>
				<b>2310</b>	<b>0,015</b>		<b>ERROR</b>	<b>-0,002</b>

Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>NGV-159</b>	<b>732,197</b>
<b>NGV-159 - BR-23</b>	-1,264	1,262	0,002	200	0,004	-1,263	<b>BR-23</b>	730,934
<b>BR-23 - BR-24</b>	0,490	-0,491	0,001	200	0,004	0,491	<b>BR-24</b>	731,425
<b>BR-24 - BR-25</b>	0,669	-0,667	-0,002	200	0,004	0,668	<b>BR-25</b>	732,093
<b>BR-25 - BR-26</b>	-13,406	13,403	0,002	300	0,005	-13,404	<b>BR-26</b>	718,689
<b>BR-26 - BR-27</b>	5,784	-5,782	-0,002	200	0,004	5,783	<b>BR-27</b>	724,472
<b>BR-27 - BR-28</b>	-10,029	10,025	0,004	200	0,004	-10,027	<b>BR-28</b>	714,445
<b>BR-28 - BR-29</b>	-8,764	8,765	-0,002	200	0,004	-8,765	<b>BR-29</b>	705,681
<b>BR-29 - BR-30</b>	0,249	-0,247	-0,002	200	0,004	0,248	<b>BR-30</b>	705,929
<b>BR-30 - BR-31</b>	-2,830	2,829	0,001	250	0,005	-2,829	<b>BR-31</b>	703,100
<b>BR-31 - BR-32</b>	-1,228	1,228	0,000	200	0,004	-1,228	<b>BR-32</b>	701,871
<b>BR-32 - BR-33</b>	-3,454	3,450	0,004	200	0,004	-3,452	<b>BR-33</b>	698,419
<b>BR-33 - BR-34</b>	-0,987	0,990	-0,003	250	0,005	-0,988	<b>BR-34</b>	697,431
<b>BR-34 - BR-35</b>	-0,645	0,644	0,000	200	0,004	-0,644	<b>BR-35</b>	696,787
<b>BR-35 - SSK-456,5</b>	-5,120	5,121	-0,001	100	0,003	-5,120	<b>SSK-456,5</b>	<b>691,666</b>
							<b>COTA DE SSK-456,5</b>	<b>691,676</b>
				<b>2900</b>	<b>0,017</b>		<b>ERROR</b>	<b>0,010</b>

Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>SSK-456,5</b>	<b>691,676</b>
<b>SSK-456,5 - BR-36</b>	-0,246	0,246	0,000	200	0,004	-0,246	<b>BR-36</b>	691,430
<b>BR-36 - BR-37</b>	-3,334	3,332	0,002	200	0,004	-3,333	<b>BR-37</b>	688,097
<b>BR-37 - BR-38</b>	-1,933	1,936	-0,003	100	0,003	-1,934	<b>BR-38</b>	686,163
<b>BR-38 - BR-39</b>	2,888	-2,886	-0,002	200	0,004	2,887	<b>BR-39</b>	689,050
<b>BR-39 - BR-40</b>	5,396	-5,396	0,000	200	0,004	5,396	<b>BR-40</b>	694,446
<b>BR-40 - NAPJ-74</b>	-6,235	6,234	0,001	100	0,003	-6,234	<b>NAPJ-74</b>	688,212
							<b>COTA DE NAPJ-74</b>	<b>688,210</b>
				<b>1000</b>	<b>0,010</b>		<b>ERROR</b>	<b>-0,002</b>

Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>NAPJ-75</b>	<b>689,032</b>
<b>NAPJ-75 - BR-41</b>	-6,422	6,421	0,002	150	0,004	-6,421	<b>BR-41</b>	682,611
<b>BR-41 - BR-42</b>	-4,953	4,953	0,000	250	0,005	-4,953	<b>BR-42</b>	677,658
<b>BR-42 - BR-43</b>	-3,406	3,409	-0,003	400	0,006	-3,407	<b>BR-43</b>	674,250
<b>BR-43 - BR-44</b>	-0,075	0,075	0,000	250	0,005	-0,075	<b>BR-44</b>	674,175
<b>BR-44 - BR-45</b>	-4,750	4,752	-0,002	400	0,006	-4,751	<b>BR-45</b>	669,424
<b>BR-45 - BR-46</b>	1,392	-1,389	-0,003	150	0,004	1,390	<b>BR-46</b>	670,814



Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>BR-45</b>	669,424
<b>BR-45 - BR-47</b>	-2,265	2,263	0,002	400	0,006	-2,264	<b>BR-47</b>	667,160
<b>BR-47 - BR-48</b>	-2,483	2,483	0,000	200	0,004	-2,483	<b>BR-48</b>	664,677
<b>BR-48 - BR-49</b>	-6,207	6,213	-0,006	350	0,006	-6,210	<b>BR-49</b>	658,467

Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>SSK-453,3</b>	<b>672,674</b>
<b>SSK-453,3 - BR-52</b>	10,202	-10,198	-0,003	900	0,009	10,200	<b>BR-52</b>	682,874
<b>BR-52 - BR-51</b>	-18,613	18,608	0,005	450	0,007	-18,610	<b>BR-51</b>	664,264
<b>BR-51 - BR-50</b>	0,761	-0,757	-0,003	250	0,005	0,759	<b>BR-50</b>	665,023

Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>BR-52</b>	682,874
<b>BR-52 - BR-53</b>	-6,014	6,012	0,002	150	0,004	-6,013	<b>BR-53</b>	676,861

Anillo	Desnivel IDA	Desnivel VUELTA	Error	Distancia	Tolerancia	Desnivel PROMEDIO	Punto	Cota
							<b>SSK-450,6</b>	<b>685,155</b>
<b>SSK-450,6 - BR-54</b>	-37,770	37,765	0,005	920	0,010	-37,768	<b>BR-54</b>	647,387
<b>BR-54 - BR-55</b>	-6,485	6,486	-0,001	350	0,006	-6,485	<b>BR-55</b>	640,902

2.1.4. Listado de cotas

Punto	Cota
BR-1	761,907
BR-2	762,998
BR-3	768,565
BR-4	772,796
BR-5	773,192
BR-6	772,082
BR-7	767,986
BR-8	766,412
BR-9	762,575
BR-10	762,772
BR-11	759,046
BR-12	758,066
BR-13	759,036
BR-14	758,984
BR-15	752,513
BR-16	750,214
BR-17	747,681
BR-18	
BR-19	748,585
BR-20	752,177
BR-21	743,962
BR-22	733,176
BR-23	730,934
BR-24	731,425
BR-25	732,093
BR-26	718,689

Punto	Cota
BR-27	724,472
BR-28	714,445
BR-29	705,681
BR-30	705,929
BR-31	703,100
BR-32	701,871
BR-33	698,419
BR-34	697,431
BR-35	696,787
BR-36	691,430
BR-37	688,097
BR-38	686,163
BR-39	689,050
BR-40	694,446
BR-41	682,611
BR-42	677,658
BR-43	674,250
BR-44	674,175
BR-45	669,424
BR-46	670,814
BR-47	667,160
BR-48	664,677
BR-49	658,467
BR-50	665,023
BR-51	664,264
BR-52	682,874
BR-53	676,861
BR-54	647,387
BR-55	640,902

## 2.2. DATOS GPS

### 2.2.1. Ajuste de red

#### Ajuste de Red 3D

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#### CARRETERA N-260. TRAMO:FISCAL-BALUPOR (HUESCA)

Nombre del usuario	APLICACIONES TOPOGRÁFICAS GEODÉSICAS S.L.	Y Fecha y hora	13:33:47 13/05/2009
Sistema de coordenadas	UTM	Zona	30 North
Datum del proyecto	WGS 1984	Modelo de geoide	ibergeo95
Unidades de coordenadas	Metro		
Unidades de distancia	Metro		
Unidades de altitud	Metro		
Unidades de ángulo	Grados		

Ajuste de Red en WGS84.

Número de líneas-base GPS	136
Número de medidas de estación total	0
Número de puntos de control en WGS84	6
Número de puntos ajustados	61
Nivel de confianza	1 $\sigma$
Nivel de significación para el test de tau	1.00 %
Error estándar de ponderación de unidad	0.997
Número de iteraciones	1
Coefficiente de Refracción	0.140

- Se marcan observaciones que han sido rechazadas por el test estadístico.

#### 1. Entrada de Líneas-base en WGS84 (Componentes y Desv. Típica)

Observación	$\Delta X_m$	$\sigma_{mm}$	$\Delta Y_m$	$\sigma_{mm}$	$\Delta Z_m$	$\sigma_{mm}$	Solución
<a href="#">555088-9997</a>	295.3110	12.1	4902.3310	9.3	-361.6615	11.6	Dif. Doble / Fija / L1
<a href="#">8002-8006B</a>	-916.9952	7.8	-7001.2188	5.4	1029.2368	7.5	Dif. Doble / Fija / Ln
<a href="#">8002-9997</a>	-636.9123	14.0	-1495.4279	7.3	694.7042	9.3	Dif. Doble / Fija / Ln
<a href="#">8003-9997</a>	-0.0206	18.6	-9.4040	11.7	0.3201	11.0	Dif. Doble / Fija / Ln
<a href="#">8003-9997</a>	-0.0444	11.6	-9.3867	9.4	0.3047	8.4	Dif. Doble / Fija / Ln
<a href="#">8006B-8003</a>	280.1092	13.9	5515.1906	9.3	-334.8442	6.4	Dif. Doble / Fija / Ln
<a href="#">8006B-BR01</a>	-1621.0594	35.6	-2895.8757	19.4	1817.8384	13.9	Dif. Doble / Fija / Ln
<a href="#">8006B-BR02</a>	-1481.2615	34.8	-2742.6983	15.5	1667.3670	22.8	Dif. Doble / Fija / Ln
<a href="#">8006B-BR03</a>	-1387.3538	23.6	-2585.9984	15.2	1573.3469	20.1	Dif. Doble / Fija / L1
<a href="#">8006B-BR04</a>	-1315.3594	16.2	-2390.7655	12.1	1501.4527	15.3	Dif. Doble / Fija / Ln
<a href="#">8006B-BR05</a>	-1230.0803	12.8	-2193.1160	7.4	1409.3813	9.0	Dif. Doble / Fija / Ln
<a href="#">8006B-BR06</a>	-1201.3831	27.2	-2060.1081	14.8	1376.6423	14.7	Dif. Doble / Fija / Ln
<a href="#">8006B-BR07</a>	-1095.1113	12.9	-1865.9573	10.5	1255.0041	11.5	Dif. Doble / Fija / Ln

Observación	$\Delta X_m$	$\sigma_{mm}$	$\Delta Y_m$	$\sigma_{mm}$	$\Delta Z_m$	$\sigma_{mm}$	Solución
<a href="#">8006B-BR08</a>	-1004.3331	16.9	-1689.2945	9.8	1153.9408	9.9	Dif. Doble / Fija / Ln
<a href="#">8006B-BR09</a>	-922.4766	22.6	-1437.3153	9.8	1059.3264	14.3	Dif. Doble / Fija / Ln
<a href="#">8006B-BR10</a>	-835.0821	16.8	-1358.5073	8.8	964.3937	17.4	Dif. Doble / Fija / L1
<a href="#">8006B-BR11</a>	-795.2295	21.1	-1160.7136	10.6	915.6848	20.0	Dif. Doble / Fija / Ln
<a href="#">8006B-BR12</a>	-712.8287	15.5	-949.7772	14.9	824.7041	21.4	Dif. Doble / Fija / L1
<a href="#">8006B-BR13</a>	-649.5592	12.0	-773.4408	10.2	757.3681	10.3	Dif. Doble / Fija / L1
<a href="#">8006B-BR14</a>	-565.3104	14.3	-659.7078	8.2	665.4992	8.9	Dif. Doble / Fija / Ln
<a href="#">8006B-BR15</a>	-516.5995	8.0	-487.6560	6.0	603.0395	8.7	Dif. Doble / Fija / Ln
<a href="#">8006B-BR16</a>	-472.5459	13.3	-402.6849	8.1	551.7037	24.5	Dif. Doble / Fija / Ln
<a href="#">8006B-BR17</a>	-466.3273	12.5	-174.1527	5.7	541.4908	14.3	Dif. Doble / Fija / Ln
<a href="#">8006B-BR18</a>	-396.9109	13.6	-52.6669	6.1	461.2232	8.2	Dif. Doble / Fija / Ln
<a href="#">8006B-BR19</a>	-284.2196	20.3	72.2056	7.8	344.4356	10.2	Dif. Doble / Fija / Ln
<a href="#">8006B-BR20</a>	-179.6924	26.5	168.4572	12.3	235.7879	16.1	Dif. Doble / Fija / L1
<a href="#">8006B-BR21</a>	-95.0163	39.1	356.7366	20.6	131.3294	35.9	Dif. Doble / Fija / L1
<a href="#">8006B-BR22</a>	-27.3078	13.1	584.8460	6.2	41.7773	10.4	Dif. Doble / Fija / Ln
<a href="#">8006B-BR23</a>	6.6597	16.6	808.7092	5.9	1.6506	8.3	Dif. Doble / Fija / Ln
<a href="#">8006B-BR24</a>	56.2176	10.4	1003.7061	7.4	-51.4932	10.6	Dif. Doble / Fija / Ln
<a href="#">8006B-BR25</a>	60.2092	12.0	1199.6922	5.9	-54.5794	5.8	Dif. Doble / Fija / Ln
<a href="#">8006B-BR26</a>	165.5392	8.4	1384.2745	6.1	-189.2467	6.7	Dif. Doble / Fija / Ln
<a href="#">8006B-BR27</a>	168.6984	9.2	1574.7257	7.3	-183.8780	8.5	Dif. Doble / Fija / Ln
<a href="#">8006B-BR28</a>	194.2302	20.1	1796.6621	9.2	-226.2996	12.1	Dif. Doble / Fija / Ln
<a href="#">8006B-BR29</a>	246.3845	17.0	1992.7489	9.0	-296.0239	11.0	Dif. Doble / Fija / Ln
<a href="#">8006B-BR30</a>	276.9475	17.1	2186.6686	9.3	-328.9044	33.5	Dif. Doble / Fija / L1
<a href="#">8006B-BR31</a>	276.2888	6.4	2436.8396	5.0	-332.0540	8.2	Dif. Doble / Fija / Ln
<a href="#">8006B-BR32</a>	304.2858	21.8	2637.4004	12.5	-364.2797	19.2	Dif. Doble / Fija / Ln
<a href="#">8006B-BR33</a>	342.4682	9.6	2811.5627	6.7	-410.9036	7.1	Dif. Doble / Fija / Ln
<a href="#">8006B-BR34</a>	306.6086	13.0	3052.3273	7.4	-372.9914	7.1	Dif. Doble / Fija / Ln
<a href="#">8006B-BR35</a>	333.2318	13.9	3286.6750	6.8	-402.8192	5.9	Dif. Doble / Fija / Ln
<a href="#">8006B-BR36</a>	455.9911	17.2	3466.0772	8.0	-544.7238	9.2	Dif. Doble / Fija / Ln
<a href="#">8006B-BR37</a>	513.3104	9.4	3670.1328	7.8	-612.1250	8.2	Dif. Doble / Fija / Ln
<a href="#">8006B-BR38</a>	536.2611	11.6	3764.8216	7.9	-640.0145	8.4	Dif. Doble / Fija / Ln
<a href="#">8006B-BR39</a>	473.2857	13.4	3958.3234	8.8	-566.8269	10.0	Dif. Doble / Fija / Ln
<a href="#">8006B-BR40</a>	409.8653	10.0	4152.6920	5.7	-489.4536	6.6	Dif. Doble / Fija / Ln
<a href="#">8006B-BR41</a>	407.5481	14.8	4429.8101	7.8	-504.2802	11.1	Dif. Doble / Fija / Ln
<a href="#">8006B-BR42</a>	493.1884	14.9	4585.0789	8.9	-605.0920	19.2	Dif. Doble / Fija / Ln
<a href="#">8006B-BR43</a>	551.5374	12.9	4846.4768	11.8	-673.7037	17.0	Dif. Doble / Fija / L1
<a href="#">8006B-BR43</a>	551.5518	14.7	4846.5014	11.3	-673.6820	12.9	Dif. Doble / Fija / L1
<a href="#">8006B-BR44</a>	665.4369	6.9	4945.2693	7.1	-798.2015	13.9	Dif. Doble / Fija / Ln
<a href="#">8006B-BR44</a>	665.4592	15.2	4945.2641	9.8	-798.1981	11.3	Dif. Doble / Fija / L1
<a href="#">8006B-BR45</a>	636.9670	18.1	5235.9989	11.5	-774.0268	13.7	Dif. Doble / Fija / L1
<a href="#">8006B-BR45</a>	636.9772	16.2	5236.0104	9.0	-774.0018	9.4	Dif. Doble / Fija / L1
<a href="#">8006B-BR46</a>	684.9098	14.5	5373.8042	8.3	-824.2647	7.6	Dif. Doble / Fija / Ln
<a href="#">8006B-BR47</a>	709.2628	20.9	5558.1983	10.6	-856.1688	12.6	Dif. Doble / Fija / Ln
<a href="#">8006B-BR47</a>	709.2235	9.2	5558.1972	7.3	-856.2108	15.8	Dif. Doble / Fija / L1
<a href="#">8006B-BR48</a>	761.6327	22.2	5779.3203	12.2	-917.0591	21.1	Dif. Doble / Fija / L1
<a href="#">8006B-BR48</a>	761.6200	14.9	5779.3083	9.3	-917.0712	27.4	Dif. Doble / Fija / Ln
<a href="#">8006B-BR49</a>	755.5546	17.7	6073.4136	7.8	-919.5849	10.5	Dif. Doble / Fija / Ln
<a href="#">8006B-BR50</a>	597.6291	6.0	6223.5946	5.9	-737.3492	7.9	Dif. Doble / Fija / L1
<a href="#">8006B-BR51</a>	619.0140	16.6	6463.1022	10.5	-761.8046	6.0	Dif. Doble / Fija / L1
<a href="#">8006B-BR52</a>	515.4571	14.5	6677.8338	7.6	-621.1125	8.5	Dif. Doble / Fija / Ln
<a href="#">8006B-BR53</a>	601.4200	16.3	6791.4967	10.9	-723.9087	9.5	Dif. Doble / Fija / L1

Observación	$\Delta X_m$	$\sigma_{mm}$	$\Delta Y_m$	$\sigma_{mm}$	$\Delta Z_m$	$\sigma_{mm}$	Solución
<a href="#">8006B-BR54</a>	861.5782	12.5	8246.5790	8.0	-1051.9876	8.7	Dif. Doble / Fija / Ln
<a href="#">8006B-BR55</a>	849.5505	11.1	8606.8831	7.1	-1048.5823	7.2	Dif. Doble / Fija / Ln
<a href="#">8007-8006B</a>	839.2782	13.0	1355.3226	7.4	-970.9222	8.7	Dif. Doble / Fija / Ln
<a href="#">8007-8006B</a>	839.2895	26.5	1355.3314	12.8	-970.8651	27.0	Dif. Doble / Fija / L1
<a href="#">8007-9997</a>	1119.3531	28.1	6861.1200	14.6	-1305.4096	32.2	Dif. Doble / Fija / L1
<a href="#">8007-BR28</a>	1033.5262	33.7	3151.9858	13.4	-1197.2131	19.0	Dif. Doble / Fija / Ln
<a href="#">9997-8006B</a>	-280.0713	8.9	-5505.7906	4.5	334.5409	9.2	Dif. Doble / Fija / Ln
<a href="#">9997-8006B</a>	-280.0793	12.3	-5505.7928	8.3	334.5264	10.3	Dif. Doble / Fija / Ln
<a href="#">9997-8006B</a>	-280.0553	11.1	-5505.7929	5.9	334.5511	12.4	Dif. Doble / Fija / L1
<a href="#">9997-8006B</a>	-280.0668	6.9	-5505.8021	4.3	334.5333	6.0	Dif. Doble / Fija / Ln
<a href="#">9997-8006B</a>	-280.0730	9.7	-5505.7920	5.9	334.5314	8.9	Dif. Doble / Fija / Ln
<a href="#">9997-BR01</a>	-1901.1407	39.5	-8401.6664	22.0	2152.3672	13.7	Dif. Doble / Fija / Ln
<a href="#">9997-BR02</a>	-1761.3487	37.0	-8248.4984	16.9	2001.8811	24.5	Dif. Doble / Fija / Ln
<a href="#">9997-BR03</a>	-1667.4558	16.4	-8091.8005	10.0	1907.8712	13.2	Dif. Doble / Fija / Ln
<a href="#">9997-BR04</a>	-1595.4420	15.5	-7896.5651	11.5	1835.9878	13.4	Dif. Doble / Fija / Ln
<a href="#">9997-BR05</a>	-1510.1770	15.6	-7698.9169	9.0	1743.9120	10.6	Dif. Doble / Fija / Ln
<a href="#">9997-BR06</a>	-1481.4692	37.7	-7565.8904	20.8	1711.1595	20.7	Dif. Doble / Fija / Ln
<a href="#">9997-BR07</a>	-1375.2151	10.3	-7371.7606	9.2	1589.5128	10.8	Dif. Doble / Fija / Ln
<a href="#">9997-BR08</a>	-1284.4137	14.5	-7195.0851	8.5	1488.4738	7.8	Dif. Doble / Fija / Ln
<a href="#">9997-BR09</a>	-1202.5414	18.9	-6943.1093	7.7	1393.8628	10.2	Dif. Doble / Fija / Ln
<a href="#">9997-BR10</a>	-1115.1934	17.8	-6864.2887	9.1	1298.9055	18.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR11</a>	-1075.2913	23.8	-6666.5078	12.2	1250.2296	22.6	Dif. Doble / Fija / Ln
<a href="#">9997-BR12</a>	-992.8943	20.5	-6455.5780	18.9	1159.2417	22.3	Dif. Doble / Fija / L1
<a href="#">9997-BR13</a>	-929.6414	16.7	-6279.2206	11.0	1091.9022	9.8	Dif. Doble / Fija / Ln
<a href="#">9997-BR14</a>	-845.3834	17.7	-6165.4971	10.6	1000.0413	11.6	Dif. Doble / Fija / L1
<a href="#">9997-BR15</a>	-796.6878	16.3	-5993.4495	11.7	937.5715	15.9	Dif. Doble / Fija / L1
<a href="#">9997-BR16</a>	-752.6108	19.9	-5908.4761	11.5	886.2445	35.6	Dif. Doble / Fija / Ln
<a href="#">9997-BR17</a>	-746.3730	16.0	-5679.9444	8.2	876.0442	17.2	Dif. Doble / Fija / Ln
<a href="#">9997-BR18</a>	-676.9890	15.6	-5558.4637	7.0	795.7585	9.4	Dif. Doble / Fija / Ln
<a href="#">9997-BR19</a>	-564.2790	28.0	-5433.5958	10.8	678.9712	14.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR20</a>	-459.7858	22.0	-5337.3464	13.9	570.3053	17.7	Dif. Doble / Fija / Ln
<a href="#">9997-BR21</a>	-375.0695	19.3	-5149.0670	10.8	465.8671	10.2	Dif. Doble / Fija / L1
<a href="#">9997-BR22</a>	-307.3921	18.4	-4920.9472	9.2	376.3036	8.3	Dif. Doble / Fija / Ln
<a href="#">9997-BR23</a>	-273.4235	15.7	-4697.0830	7.3	336.1770	9.6	Dif. Doble / Fija / Ln
<a href="#">9997-BR24</a>	-223.8541	10.3	-4502.0858	7.6	283.0562	8.9	Dif. Doble / Fija / Ln
<a href="#">9997-BR25</a>	-219.8669	27.6	-4306.0959	13.8	279.9555	13.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR26</a>	-114.5484	13.8	-4121.5193	9.2	145.2910	10.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR27</a>	-111.3964	11.8	-3931.0610	8.1	150.6502	8.2	Dif. Doble / Fija / Ln
<a href="#">9997-BR29</a>	-33.7043	22.6	-3513.0442	11.6	38.5027	11.9	Dif. Doble / Fija / Ln
<a href="#">9997-BR30</a>	-3.1155	22.4	-3319.1304	11.2	5.6461	22.9	Dif. Doble / Fija / Ln
<a href="#">9997-BR31</a>	-3.8001	16.1	-3068.9704	8.5	2.4533	17.9	Dif. Doble / Fija / Ln
<a href="#">9997-BR31</a>	-3.7741	9.2	-3068.9580	7.1	2.4834	11.7	Dif. Doble / Fija / Ln
<a href="#">9997-BR32</a>	24.1749	19.0	-2868.4130	14.0	-29.7354	23.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR33</a>	62.4016	10.1	-2694.2359	7.0	-76.3690	7.7	Dif. Doble / Fija / Ln
<a href="#">9997-BR33</a>	62.3752	8.3	-2694.2310	8.6	-76.3848	9.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR34</a>	26.5438	9.6	-2453.4726	5.3	-38.4560	5.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR34</a>	26.5087	16.8	-2453.4789	13.2	-38.4742	15.1	Dif. Doble / Fija / Ln
<a href="#">9997-BR35</a>	53.1162	13.7	-2219.1368	10.0	-68.3043	13.4	Dif. Doble / Fija / L1
<a href="#">9997-BR35</a>	53.1662	14.0	-2219.1303	6.8	-68.2817	5.6	Dif. Doble / Fija / Ln
<a href="#">9997-BR36</a>	175.9098	9.8	-2039.7292	7.3	-210.2083	18.8	Dif. Doble / Fija / Ln
<a href="#">9997-BR36</a>	175.9225	18.2	-2039.7203	9.0	-210.1896	7.5	Dif. Doble / Fija / Ln
<a href="#">9997-BR37</a>	233.2369	9.9	-1835.6672	7.3	-277.5880	7.6	Dif. Doble / Fija / Ln

Observación	$\Delta X_m$	$\sigma_{mm}$	$\Delta Y_m$	$\sigma_{mm}$	$\Delta Z_m$	$\sigma_{mm}$	Solución
<a href="#">9997-BR37</a>	233.2125	14.3	-1835.6695	7.7	-277.6216	10.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR38</a>	256.1851	14.4	-1740.9691	7.7	-305.4862	19.3	Dif. Doble / Fija / Ln
<a href="#">9997-BR38</a>	256.2061	11.3	-1740.9788	7.1	-305.4736	5.9	Dif. Doble / Fija / Ln
<a href="#">9997-BR39</a>	193.1888	13.6	-1547.4818	7.7	-232.2994	7.5	Dif. Doble / Fija / Ln
<a href="#">9997-BR40</a>	129.7931	11.8	-1353.0976	6.6	-154.9136	8.8	Dif. Doble / Fija / Ln
<a href="#">9997-BR41</a>	127.4621	54.5	-1075.9769	18.1	-169.7410	42.6	Dif. Doble / Fija / L1
<a href="#">9997-BR42</a>	213.1284	18.0	-920.7145	10.4	-270.5421	21.8	Dif. Doble / Fija / Ln
<a href="#">9997-BR43</a>	271.4769	13.2	-659.3009	10.1	-339.1473	11.9	Dif. Doble / Fija / L1
<a href="#">9997-BR44</a>	385.3856	14.8	-560.5389	9.5	-463.6709	11.0	Dif. Doble / Fija / Ln
<a href="#">9997-BR45</a>	356.9022	16.4	-269.7951	9.0	-439.4686	8.7	Dif. Doble / Fija / Ln
<a href="#">9997-BR46</a>	404.8409	28.5	-131.9929	15.1	-489.7229	15.1	Dif. Doble / Fija / Ln
<a href="#">9997-BR47</a>	429.1818	16.0	52.3949	8.5	-521.6585	9.3	Dif. Doble / Fija / Ln
<a href="#">9997-BR48</a>	481.5497	18.3	273.5214	9.9	-582.5375	18.1	Dif. Doble / Fija / Ln
<a href="#">9997-BR49</a>	475.4828	37.9	567.6253	10.6	-585.0441	26.9	Dif. Doble / Fija / Ln
<a href="#">9997-BR50</a>	317.5643	47.7	717.8009	11.3	-402.8085	13.1	Dif. Doble / Fija / Ln
<a href="#">9997-BR51</a>	338.9348	19.8	957.3152	13.5	-427.2645	8.9	Dif. Doble / Fija / Ln
<a href="#">9997-BR52</a>	235.3913	16.8	1172.0404	8.7	-286.5695	9.8	Dif. Doble / Fija / L1
<a href="#">9997-BR53</a>	321.3333	23.4	1285.7108	9.5	-389.3806	11.3	Dif. Doble / Fija / Ln
<a href="#">9997-BR54</a>	581.5086	19.5	2740.7894	10.0	-717.4507	12.7	Dif. Doble / Fija / Ln
<a href="#">9997-BR55</a>	569.5076	54.7	3101.0751	29.3	-714.0021	40.0	Dif. Doble / Fija / L1

- Las desviaciones estándar de las líneas-base estáticas han sido multiplicadas por el factor 10.00.

## 2. Entrada de Puntos de Control WGS84 (Coord. Cart. y Desv. Típica)

Punto	X	$\sigma$	Y	$\sigma$	Z	$\sigma$
<a href="#">555088</a>	4711749.9970m	0.0mm	-6272.2760m	0.0mm	4285585.7270m	0.0mm
<a href="#">8002</a>	4712682.2190m	0.0mm	125.4930m	0.0mm	4284529.3570m	0.0mm
<a href="#">8003</a>	4712045.3490m	0.0mm	-1360.5380m	0.0mm	4285223.7520m	0.0mm
<a href="#">8006B</a>	4711765.2220m	0.0mm	-6875.7360m	0.0mm	4285558.5970m	0.0mm
<a href="#">8007</a>	4710925.9580m	0.0mm	-8231.0810m	0.0mm	4286529.4890m	0.0mm
<a href="#">9997</a>	4712045.3063m	0.0mm	-1369.9463m	0.0mm	4285224.0650m	0.0mm

## 3. Líneas-base Ajustadas en WGS84 (Componentes y Desv. Típica)

Observación	$\Delta X$	$\sigma$	$\Delta Y$	$\sigma$	$\Delta Z$	$\sigma$
<a href="#">555088-9997</a>	295.3093m	0.0mm	4902.3297m	0.0mm	-361.6620m	0.0mm
<a href="#">8002-8006B</a>	-916.9970m	0.0mm	-7001.2290m	0.0mm	1029.2400m	0.0mm
<a href="#">8002-9997</a>	-636.9127m	0.0mm	-1495.4393m	0.0mm	694.7080m	0.0mm
<a href="#">8003-9997</a>	-0.0427m	0.0mm	-9.4083m	0.0mm	0.3130m	0.0mm
<a href="#">8006B-8003</a>	280.1270m	0.0mm	5515.1980m	0.0mm	-334.8450m	0.0mm
<a href="#">8006B-BR01</a>	-1621.0586m	26.3mm	-2895.8762m	14.5mm	1817.8366m	9.7mm
<a href="#">8006B-BR02</a>	-1481.2623m	25.3mm	-2742.7029m	11.4mm	1667.3587m	16.6mm
<a href="#">8006B-BR03</a>	-1387.3648m	13.4mm	-2586.0066m	8.3mm	1573.3422m	11.0mm
<a href="#">8006B-BR04</a>	-1315.3587m	11.2mm	-2390.7707m	8.3mm	1501.4545m	10.1mm
<a href="#">8006B-BR05</a>	-1230.0853m	9.8mm	-2193.1205m	5.7mm	1409.3808m	6.8mm
<a href="#">8006B-BR06</a>	-1201.3842m	22.0mm	-2060.1054m	12.0mm	1376.6372m	11.9mm
<a href="#">8006B-BR07</a>	-1095.1228m	8.0mm	-1865.9644m	6.9mm	1254.9921m	7.8mm
<a href="#">8006B-BR08</a>	-1004.3311m	10.8mm	-1689.2949m	6.3mm	1153.9412m	6.0mm
<a href="#">8006B-BR09</a>	-922.4656m	14.4mm	-1437.3179m	6.0mm	1059.3291m	8.3mm
<a href="#">8006B-BR10</a>	-835.0949m	12.2mm	-1358.5035m	6.3mm	964.3842m	12.5mm
<a href="#">8006B-BR11</a>	-795.2196m	15.7mm	-1160.7155m	8.0mm	915.6904m	14.9mm
<a href="#">8006B-BR12</a>	-712.8215m	12.1mm	-949.7827m	11.5mm	824.7074m	15.3mm
<a href="#">8006B-BR13</a>	-649.5598m	9.5mm	-773.4363m	7.4mm	757.3698m	7.0mm



Observación	ΔX	σ	ΔY	σ	ΔZ	σ	Observación	ΔX	σ	ΔY	σ	ΔZ	σ
<a href="#">8006B-BR14</a>	-565.3056m	11.0mm	-659.7074m	6.5mm	665.5030m	7.0mm	<a href="#">9997-BR06</a>	-1481.4685m	22.0mm	-7565.8951m	12.0mm	1711.1692m	11.9mm
<a href="#">8006B-BR15</a>	-516.6002m	7.2mm	-487.6568m	5.3mm	603.0395m	7.6mm	<a href="#">9997-BR07</a>	-1375.2071m	8.0mm	-7371.7541m	6.9mm	1589.5241m	7.8mm
<a href="#">8006B-BR16</a>	-472.5402m	11.0mm	-402.6853m	6.6mm	551.7056m	20.1mm	<a href="#">9997-BR08</a>	-1284.4154m	10.8mm	-7195.0845m	6.3mm	1488.4733m	6.0mm
<a href="#">8006B-BR17</a>	-466.3129m	9.7mm	-174.1530m	4.7mm	541.5004m	10.9mm	<a href="#">9997-BR09</a>	-1202.5499m	14.4mm	-6943.1076m	6.0mm	1393.8611m	8.3mm
<a href="#">8006B-BR18</a>	-396.9082m	10.2mm	-52.6699m	4.6mm	461.2246m	6.2mm	<a href="#">9997-BR10</a>	-1115.1792m	12.2mm	-6864.2932m	6.3mm	1298.9162m	12.5mm
<a href="#">8006B-BR19</a>	-284.2111m	16.4mm	72.2015m	6.3mm	344.4368m	8.2mm	<a href="#">9997-BR11</a>	-1075.3039m	15.7mm	-6666.5052m	8.0mm	1250.2225m	14.9mm
<a href="#">8006B-BR20</a>	-179.7026m	16.0mm	168.4501m	8.9mm	235.7797m	11.4mm	<a href="#">9997-BR12</a>	-992.9058m	12.1mm	-6455.5724m	11.5mm	1159.2394m	15.3mm
<a href="#">8006B-BR21</a>	-94.9916m	17.2mm	356.7259m	9.5mm	131.3336m	9.6mm	<a href="#">9997-BR13</a>	-929.6441m	9.5mm	-6279.2260m	7.4mm	1091.9018m	7.0mm
<a href="#">8006B-BR22</a>	-27.3081m	10.5mm	584.8443m	5.0mm	41.7727m	5.8mm	<a href="#">9997-BR14</a>	-845.3899m	11.0mm	-6165.4971m	6.5mm	1000.0350m	7.0mm
<a href="#">8006B-BR23</a>	6.6609m	11.3mm	808.7083m	4.6mm	1.6488m	6.2mm	<a href="#">9997-BR15</a>	-796.6845m	7.2mm	-5993.4465m	5.3mm	937.5715m	7.6mm
<a href="#">8006B-BR24</a>	56.2243m	7.3mm	1003.7048m	5.3mm	-51.4829m	6.8mm	<a href="#">9997-BR16</a>	-752.6245m	11.0mm	-5908.4750m	6.6mm	886.2376m	20.1mm
<a href="#">8006B-BR25</a>	60.2105m	11.0mm	1199.6924m	5.4mm	-54.5789m	5.3mm	<a href="#">9997-BR17</a>	-746.3972m	9.7mm	-5679.9427m	4.7mm	876.0324m	10.9mm
<a href="#">8006B-BR26</a>	165.5388m	7.1mm	1384.2733m	5.0mm	-189.2449m	5.5mm	<a href="#">9997-BR18</a>	-676.9925m	10.2mm	-5558.4596m	4.6mm	795.7566m	6.2mm
<a href="#">8006B-BR27</a>	168.6944m	7.2mm	1574.7266m	5.3mm	-183.8798m	5.9mm	<a href="#">9997-BR19</a>	-564.2954m	16.4mm	-5433.5882m	6.3mm	678.9688m	8.2mm
<a href="#">8006B-BR28</a>	194.2388m	17.2mm	1796.6557m	7.6mm	-226.3085m	10.1mm	<a href="#">9997-BR20</a>	-459.7869m	16.0mm	-5337.3396m	8.9mm	570.3117m	11.4mm
<a href="#">8006B-BR29</a>	246.3825m	13.5mm	1992.7477m	7.1mm	-296.0265m	8.0mm	<a href="#">9997-BR21</a>	-375.0759m	17.2mm	-5149.0638m	9.5mm	465.8656m	9.6mm
<a href="#">8006B-BR30</a>	276.9531m	12.0mm	2186.6665m	6.5mm	-328.8985m	16.3mm	<a href="#">9997-BR22</a>	-307.3924m	10.5mm	-4920.9454m	5.0mm	376.3047m	5.8mm
<a href="#">8006B-BR31</a>	276.2939m	4.9mm	2436.8292m	3.4mm	-332.0610m	6.0mm	<a href="#">9997-BR23</a>	-273.4234m	11.3mm	-4697.0814m	4.6mm	336.1808m	6.2mm
<a href="#">8006B-BR32</a>	304.2678m	13.8mm	2637.3885m	9.1mm	-364.2724m	14.6mm	<a href="#">9997-BR24</a>	-223.8600m	7.3mm	-4502.0849m	5.3mm	283.0491m	6.8mm
<a href="#">8006B-BR33</a>	342.4702m	5.3mm	2811.5581m	4.2mm	-410.9060m	4.4mm	<a href="#">9997-BR25</a>	-219.8738m	11.0mm	-4306.0973m	5.4mm	279.9531m	5.3mm
<a href="#">8006B-BR34</a>	306.6147m	6.9mm	3052.3184m	4.0mm	-372.9914m	3.9mm	<a href="#">9997-BR26</a>	-114.5455m	7.1mm	-4121.5164m	5.0mm	145.2872m	5.5mm
<a href="#">8006B-BR35</a>	333.2244m	7.8mm	3286.6621m	4.2mm	-402.8199m	3.8mm	<a href="#">9997-BR27</a>	-111.3899m	7.2mm	-3931.0631m	5.3mm	150.6522m	5.9mm
<a href="#">8006B-BR36</a>	455.9962m	6.9mm	3466.0674m	4.5mm	-544.7253m	4.7mm	<a href="#">9997-BR29</a>	-33.7018m	13.5mm	-3513.0420m	7.1mm	38.5055m	8.0mm
<a href="#">8006B-BR37</a>	513.3121m	6.1mm	3670.1226m	4.3mm	-612.1305m	4.8mm	<a href="#">9997-BR30</a>	-3.1312m	12.0mm	-3319.1232m	6.5mm	5.6335m	16.3mm
<a href="#">8006B-BR38</a>	536.2733m	6.0mm	3764.8190m	4.1mm	-640.0102m	4.5mm	<a href="#">9997-BR31</a>	-3.7903m	4.9mm	-3068.9605m	3.4mm	2.4710m	6.0mm
<a href="#">8006B-BR39</a>	473.2789m	9.5mm	3958.3146m	5.8mm	-566.8295m	6.0mm	<a href="#">9997-BR32</a>	24.1835m	13.8mm	-2868.4012m	9.1mm	-29.7404m	14.6mm
<a href="#">8006B-BR40</a>	409.8703m	7.6mm	4152.6920m	4.3mm	-489.4506m	5.3mm	<a href="#">9997-BR33</a>	62.3859m	5.3mm	-2694.2316m	4.2mm	-76.3740m	4.4mm
<a href="#">8006B-BR41</a>	407.5479m	14.2mm	4429.8105m	7.1mm	-504.2796m	10.6mm	<a href="#">9997-BR34</a>	26.5304m	6.9mm	-2453.4713m	4.0mm	-38.4594m	3.9mm
<a href="#">8006B-BR42</a>	493.1983m	11.4mm	4585.0776m	6.7mm	-605.0847m	14.3mm	<a href="#">9997-BR35</a>	53.1401m	7.8mm	-2219.1276m	4.2mm	-68.2879m	3.8mm
<a href="#">8006B-BR43</a>	551.5522m	7.5mm	4846.4875m	5.8mm	-673.6882m	7.2mm	<a href="#">9997-BR36</a>	175.9119m	6.9mm	-2039.7223m	4.5mm	-210.1933m	4.7mm
<a href="#">8006B-BR44</a>	665.4446m	5.7mm	4945.2633m	4.9mm	-798.2015m	6.5mm	<a href="#">9997-BR37</a>	233.2278m	6.1mm	-1835.6671m	4.3mm	-277.5985m	4.8mm
<a href="#">8006B-BR45</a>	636.9732m	9.2mm	5235.9978m	5.1mm	-774.0082m	5.3mm	<a href="#">9997-BR38</a>	256.1890m	6.0mm	-1740.9707m	4.1mm	-305.4782m	4.5mm
<a href="#">8006B-BR46</a>	684.9131m	12.9mm	5373.8024m	7.2mm	-824.2626m	6.8mm	<a href="#">9997-BR39</a>	193.1946m	9.5mm	-1547.4751m	5.8mm	-232.2975m	6.0mm
<a href="#">8006B-BR47</a>	709.2380m	7.4mm	5558.1907m	4.8mm	-856.1957m	5.9mm	<a href="#">9997-BR40</a>	129.7860m	7.6mm	-1353.0977m	4.3mm	-154.9186m	5.3mm
<a href="#">8006B-BR48</a>	761.6241m	9.0mm	5779.3111m	5.8mm	-917.0676m	12.1mm	<a href="#">9997-BR41</a>	127.4636m	14.2mm	-1075.9792m	7.1mm	-169.7476m	10.6mm
<a href="#">8006B-BR49</a>	755.5563m	15.4mm	6073.4137m	6.1mm	-919.5839m	9.6mm	<a href="#">9997-BR42</a>	213.1140m	11.4mm	-920.7121m	6.7mm	-270.5527m	14.3mm
<a href="#">8006B-BR50</a>	597.6295m	5.9mm	6223.5936m	5.2mm	-737.3466m	5.6mm	<a href="#">9997-BR43</a>	271.4679m	7.5mm	-659.3022m	5.8mm	-339.1562m	7.2mm
<a href="#">8006B-BR51</a>	619.0159m	12.7mm	6463.1025m	8.2mm	-761.8024m	4.9mm	<a href="#">9997-BR44</a>	385.3603m	5.7mm	-560.5263m	4.9mm	-463.6695m	6.5mm
<a href="#">8006B-BR52</a>	515.4650m	10.9mm	6677.8322m	5.7mm	-621.1078m	6.4mm	<a href="#">9997-BR45</a>	356.8889m	9.2mm	-269.7919m	5.1mm	-439.4762m	5.3mm
<a href="#">8006B-BR53</a>	601.4186m	12.7mm	6791.4989m	7.1mm	-723.9109m	6.9mm	<a href="#">9997-BR46</a>	404.8288m	12.9mm	-131.9873m	7.2mm	-489.7306m	6.8mm
<a href="#">8006B-BR54</a>	861.5820m	10.1mm	8246.5800m	6.0mm	-1051.9867m	6.9mm	<a href="#">9997-BR47</a>	429.1537m	7.4mm	52.4010m	4.8mm	-521.6636m	5.9mm
<a href="#">8006B-BR55</a>	849.5521m	10.8mm	8606.8818m	6.9mm	-1048.5808m	7.1mm	<a href="#">9997-BR48</a>	481.5398m	9.0mm	273.5214m	5.8mm	-582.5355m	12.1mm
<a href="#">8007-8006B</a>	839.2640m	0.0mm	1355.3450m	0.0mm	-970.8920m	0.0mm	<a href="#">9997-BR49</a>	475.4720m	15.4mm	567.6240m	6.1mm	-585.0519m	9.6mm
<a href="#">8007-9997</a>	1119.3483m	0.0mm	6861.1347m	0.0mm	-1305.4240m	0.0mm	<a href="#">9997-BR50</a>	317.5452m	5.9mm	717.8039m	5.2mm	-402.8146m	5.6mm
<a href="#">8007-BR28</a>	1033.5028m	17.2mm	3152.0007m	7.6mm	-1197.2005m	10.1mm	<a href="#">9997-BR51</a>	338.9316m	12.7mm	957.3128m	8.2mm	-427.2704m	4.9mm
<a href="#">9997-8006B</a>	-280.0843m	0.0mm	-5505.7897m	0.0mm	334.5320m	0.0mm	<a href="#">9997-BR52</a>	235.3807m	10.9mm	1172.0425m	5.7mm	-286.5758m	6.4mm
<a href="#">9997-BR01</a>	-1901.1429m	26.3mm	-8401.6659m	14.5mm	2152.3686m	9.7mm	<a href="#">9997-BR53</a>	321.3343m	12.7mm	1285.7092m	7.1mm	-389.3789m	6.9mm
<a href="#">9997-BR02</a>	-1761.3466m	25.3mm	-8248.4926m	11.4mm	2001.8907m	16.6mm	<a href="#">9997-BR54</a>	581.4977m	10.1mm	2740.7903m	6.0mm	-717.4547m	6.9mm
<a href="#">9997-BR03</a>	-1667.4491m	13.4mm	-8091.7963m	8.3mm	1907.8742m	11.0mm	<a href="#">9997-BR55</a>	569.4678m	10.8mm	3101.0921m	6.9mm	-714.0487m	7.1mm
<a href="#">9997-BR04</a>	-1595.4430m	11.2mm	-7896.5604m	8.3mm	1835.9865m	10.1mm							
<a href="#">9997-BR05</a>	-1510.1695m	9.8mm	-7698.9102m	5.7mm	1743.9128m	6.8mm							

#### 4. Residuos de Línea-Base (Residuos y Residuos Estandarizados)

Observación	Res. Dir. Norte	Res. Estánd.	Res. Dir Este	Res. Estánd.	Res. de Altitud	Res. Estánd.	Núm. de Red.
<a href="#">555088-9997</a>	0.7mm	0.070	-1.3mm	-0.138	-1.6mm	-0.121	3.00
<a href="#">8002-8006B</a>	3.6mm	0.770	-10.2mm	-1.876	0.8mm	0.087	3.00
<a href="#">8002-9997</a>	3.1mm	0.438	-11.4mm	-1.567	2.2mm	0.147	3.00
<a href="#">8003-9997</a>	9.7mm	0.704	-4.4mm	-0.377	-21.1mm	-1.271	3.00
<a href="#">8003-9997</a>	5.0mm	0.586	-21.6mm	-2.307	6.9mm	0.598	3.00
<a href="#">8006B-8003</a>	-12.6mm	-1.459	7.4mm	0.796	12.6mm	0.997	3.00
<a href="#">8006B-BR01</a>	-1.9mm	-0.162	-0.5mm	-0.038	-0.6mm	-0.027	1.38
<a href="#">8006B-BR02</a>	-5.6mm	-0.646	-4.6mm	-0.439	-6.2mm	-0.228	1.42
<a href="#">8006B-BR03</a>	3.9mm	0.367	-8.2mm	-0.650	-11.3mm	-0.484	2.07
<a href="#">8006B-BR04</a>	0.8mm	0.080	-5.2mm	-0.598	1.8mm	0.136	1.61
<a href="#">8006B-BR05</a>	3.0mm	0.466	-4.5mm	-0.961	-4.0mm	-0.525	1.23
<a href="#">8006B-BR06</a>	-3.0mm	-0.403	2.8mm	0.321	-4.3mm	-0.263	1.05
<a href="#">8006B-BR07</a>	-1.1mm	-0.133	-7.2mm	-0.903	-16.6mm	-1.636	1.73
<a href="#">8006B-BR08</a>	-1.0mm	-0.123	-0.4mm	-0.048	1.8mm	0.146	1.80
<a href="#">8006B-BR09</a>	-5.4mm	-0.767	-2.6mm	-0.339	9.9mm	0.503	1.82
<a href="#">8006B-BR10</a>	1.6mm	0.297	3.8mm	0.634	-15.9mm	-1.004	1.47
<a href="#">8006B-BR11</a>	-2.5mm	-0.360	-1.9mm	-0.275	11.1mm	0.620	1.30
<a href="#">8006B-BR12</a>	-2.4mm	-0.305	-5.4mm	-0.578	7.5mm	0.474	1.15
<a href="#">8006B-BR13</a>	1.6mm	0.261	4.5mm	0.636	0.7mm	0.078	1.30
<a href="#">8006B-BR14</a>	-0.5mm	-0.070	0.4mm	0.082	6.2mm	0.749	1.17
<a href="#">8006B-BR15</a>	0.5mm	0.120	-0.8mm	-0.294	-0.5mm	-0.148	0.63
<a href="#">8006B-BR16</a>	-2.4mm	-0.375	-0.3mm	-0.074	5.5mm	0.385	0.96
<a href="#">8006B-BR17</a>	-2.7mm	-0.524	-0.2mm	-0.075	17.0mm	1.564	1.07
<a href="#">8006B-BR18</a>	-0.8mm	-0.146	-3.0mm	-0.758	2.9mm	0.326	1.29
<a href="#">8006B-BR19</a>	-4.9mm	-0.997	-4.0mm	-0.886	7.1mm	0.572	1.03
<a href="#">8006B-BR20</a>	0.8mm	0.092	-7.1mm	-0.844	-13.0mm	-0.587	1.47
<a href="#">8006B-BR21</a>	-13.6mm	-0.488	-10.7mm	-0.585	21.0mm	0.519	2.54
<a href="#">8006B-BR22</a>	-3.2mm	-0.448	-1.6mm	-0.449	-3.4mm	-0.366	1.43
<a href="#">8006B-BR23</a>	-2.2mm	-0.417	-0.9mm	-0.245	-0.3mm	-0.027	1.30
<a href="#">8006B-BR24</a>	3.0mm	0.461	-1.3mm	-0.251	11.9mm	1.364	1.58
<a href="#">8006B-BR25</a>	-0.5mm	-0.168	0.2mm	0.090	1.3mm	0.300	0.48
<a href="#">8006B-BR26</a>	1.7mm	0.451	-1.2mm	-0.354	0.9mm	0.202	0.93
<a href="#">8006B-BR27</a>	1.4mm	0.260	0.9mm	0.174	-4.2mm	-0.641	1.29
<a href="#">8006B-BR28</a>	-12.4mm	-2.093	-6.4mm	-1.227	0.3mm	0.030	0.93
<a href="#">8006B-BR29</a>	-0.6mm	-0.121	-1.2mm	-0.225	-3.2mm	-0.278	1.22
<a href="#">8006B-BR30</a>	0.5mm	0.030	-2.1mm	-0.314	8.1mm	0.300	1.72
<a href="#">8006B-BR31</a>	-8.6mm	-2.149	-10.4mm	-2.902	-0.9mm	-0.154	1.46
<a href="#">8006B-BR32</a>	17.5mm	1.437	-11.9mm	-1.397	-8.4mm	-0.495	1.41
<a href="#">8006B-BR33</a>	-3.1mm	-0.491	-4.6mm	-0.882	-0.1mm	-0.015	1.92
<a href="#">8006B-BR34</a>	-4.1mm	-0.528	-9.0mm	-1.447	4.5mm	0.463	2.11
<a href="#">8006B-BR35</a>	4.4mm	0.601	-12.9mm	-2.438	-6.0mm	-0.604	1.83
<a href="#">8006B-BR36</a>	-4.6mm	-0.636	-9.9mm	-1.491	2.8mm	0.174	2.14
<a href="#">8006B-BR37</a>	-5.2mm	-0.825	-10.1mm	-1.571	-2.5mm	-0.336	1.91
<a href="#">8006B-BR38</a>	-5.1mm	-0.753	-2.5mm	-0.375	11.9mm	1.192	2.07
<a href="#">8006B-BR39</a>	2.7mm	0.337	-8.8mm	-1.332	-6.7mm	-0.720	1.69
<a href="#">8006B-BR40</a>	-1.2mm	-0.337	0.0mm	0.001	5.7mm	0.834	1.21
<a href="#">8006B-BR41</a>	0.6mm	0.204	0.4mm	0.130	0.2mm	0.048	0.33
<a href="#">8006B-BR42</a>	-1.4mm	-0.181	-1.3mm	-0.225	12.2mm	0.874	1.37
<a href="#">8006B-BR43</a>	1.5mm	0.160	10.8mm	1.056	21.4mm	1.333	2.02

Observación	Res. Dir. Norte	Res. Estánd.	Res. Dir Este	Res. Estánd.	Res. de Altitud	Res. Estánd.	Núm. de Red.
<a href="#">8006B-BR43</a>	-4.8mm	-0.460	-13.9mm	-1.447	-3.9mm	-0.304	2.10
<a href="#">8006B-BR44</a>	-5.2mm	-0.601	-5.9mm	-1.149	5.7mm	0.600	1.61
<a href="#">8006B-BR44</a>	7.4mm	0.778	-0.8mm	-0.094	-13.0mm	-0.943	2.21
<a href="#">8006B-BR45</a>	9.5mm	0.761	-1.1mm	-0.108	17.2mm	1.104	2.19
<a href="#">8006B-BR45</a>	-2.0mm	-0.274	-12.6mm	-1.720	-7.3mm	-0.541	1.93
<a href="#">8006B-BR46</a>	-0.8mm	-0.176	-1.8mm	-0.445	3.9mm	0.637	0.64
<a href="#">8006B-BR47</a>	-3.1mm	-0.329	-7.6mm	-0.811	-36.4mm	-1.792	2.36
<a href="#">8006B-BR47</a>	1.3mm	0.117	-6.5mm	-1.185	20.9mm	1.956	1.80
<a href="#">8006B-BR48</a>	-0.5mm	-0.039	-9.2mm	-0.861	-12.1mm	-0.510	2.30
<a href="#">8006B-BR48</a>	-0.1mm	-0.005	2.8mm	0.384	5.5mm	0.222	1.71
<a href="#">8006B-BR49</a>	-0.4mm	-0.063	0.1mm	0.025	2.0mm	0.282	0.90
<a href="#">8006B-BR50</a>	1.6mm	0.396	-1.0mm	-0.343	2.0mm	0.526	0.75
<a href="#">8006B-BR51</a>	0.3mm	0.056	0.3mm	0.049	2.9mm	0.312	1.02
<a href="#">8006B-BR52</a>	-1.9mm	-0.383	-1.6mm	-0.319	9.0mm	0.920	1.29
<a href="#">8006B-BR53</a>	-0.6mm	-0.111	2.1mm	0.261	-2.6mm	-0.243	1.37
<a href="#">8006B-BR54</a>	-1.9mm	-0.291	1.0mm	0.189	3.5mm	0.590	1.05
<a href="#">8006B-BR55</a>	0.0mm	0.027	-1.3mm	-0.743	2.3mm	1.091	0.14
<a href="#">8007-8006B</a>	31.9mm	3.448	22.4mm	3.015	9.9mm	0.786	3.00
<a href="#">8007-8006B</a>	-2.6mm	-0.208	13.6mm	1.062	-37.0mm	-1.040	3.00
<a href="#">8007-9997</a>	-7.4mm	-0.565	14.7mm	1.010	-13.3mm	-0.327	3.00
<a href="#">8007-BR28</a>	25.2mm	1.995	14.9mm	1.350	-8.7mm	-0.286	2.07
<a href="#">9997-8006B</a>	2.2mm	0.392	0.9mm	0.201	-15.6mm	-1.366	3.00
<a href="#">9997-8006B</a>	7.5mm	1.248	3.1mm	0.378	0.1mm	0.005	3.00
<a href="#">9997-8006B</a>	5.5mm	0.742	3.2mm	0.536	-34.3mm	-2.309	3.00
<a href="#">9997-8006B</a>	10.9mm	2.500	12.4mm	2.921	-13.8mm	-1.722	3.00
<a href="#">9997-8006B</a>	8.1mm	1.265	2.3mm	0.392	-8.0mm	-0.697	3.00
<a href="#">9997-BR01</a>	2.5mm	0.167	0.5mm	0.031	-0.7mm	-0.026	1.62
<a href="#">9997-BR02</a>	5.8mm	0.625	5.8mm	0.464	8.0mm	0.260	1.58
<a href="#">9997-BR03</a>	-2.3mm	-0.495	4.2mm	0.770	7.0mm	0.638	0.93
<a href="#">9997-BR04</a>	-0.3mm	-0.031	4.7mm	0.595	-1.6mm	-0.148	1.39
<a href="#">9997-BR05</a>	-4.5mm	-0.482	6.7mm	0.971	6.0mm	0.547	1.77
<a href="#">9997-BR06</a>	6.6mm	0.473	-4.7mm	-0.275	7.1mm	0.221	1.95
<a href="#">9997-BR07</a>	2.9mm	0.491	6.5mm	1.085	13.5mm	1.743	1.27
<a href="#">9997-BR08</a>	0.7mm	0.150	0.5mm	0.094	-1.6mm	-0.168	1.20
<a href="#">9997-BR09</a>	4.5mm	0.794	1.6mm	0.344	-7.5mm	-0.606	1.18
<a href="#">9997-BR10</a>	-1.7mm	-0.310	-4.5mm	-0.685	17.7mm	1.015	1.53
<a href="#">9997-BR11</a>	3.3mm	0.362	2.5mm	0.277	-14.1mm	-0.621	1.70
<a href="#">9997-BR12</a>	6.1mm	0.490	5.6mm	0.376	-10.1mm	-0.519	1.85
<a href="#">9997-BR13</a>	1.5mm	0.153	-5.5mm	-0.670	-2.3mm	-0.202	1.70
<a href="#">9997-BR14</a>	-0.3mm	-0.029	0.0mm	0.004	-9.0mm	-0.691	1.83
<a href="#">9997-BR15</a>	-2.2mm	-0.151	3.0mm	0.292	2.4mm	0.176	2.37
<a href="#">9997-BR16</a>	4.2mm	0.319	1.1mm	0.117	-14.8mm	-0.479	2.04
<a href="#">9997-BR17</a>	7.7mm	0.762	1.7mm	0.248	-25.8mm	-1.697	1.93
<a href="#">9997-BR18</a>	1.0mm	0.141	4.0mm	0.763	-3.9mm	-0.337	1.71
<a href="#">9997-BR19</a>	9.4mm	0.993	7.6mm	0.875	-13.7mm	-0.585	1.97
<a href="#">9997-BR20</a>	5.4mm	0.665	6.8mm	0.642	3.5mm	0.189	1.53
<a href="#">9997-BR21</a>	3.2mm	0.766	3.2mm	0.625	-5.8mm	-0.718	0.46
<a href="#">9997-BR22</a>	1.1mm	0.163	1.8mm	0.233	0.5mm	0.033	1.57
<a href="#">9997-BR23</a>	2.8mm	0.584	1.6mm	0.286	2.6mm	0.218	1.70
<a href="#">9997-BR24</a>	-1.3mm	-0.221	0.9mm	0.160	-9.1mm	-1.290	1.42
<a href="#">9997-BR25</a>	2.9mm	0.168	-1.4mm	-0.111	-6.7mm	-0.305	2.52

Observación	Res. Dir. Norte	Res. Estánd.	Res. Dir Este	Res. Estánd.	Res. de Altitud	Res. Estánd.	Núm. de Red.	Punto	X	$\sigma$	Y	$\sigma$	Z	$\sigma$
<a href="#">9997-BR26</a>	-4.7mm	-0.512	2.8mm	0.368	-0.5mm	-0.044	2.07	<a href="#">BR07</a>	4710670.0992m	8.0mm	-8741.7004m	6.9mm	4286813.5891m	7.8mm
<a href="#">9997-BR27</a>	-2.9mm	-0.398	-2.1mm	-0.352	6.2mm	0.759	1.71	<a href="#">BR08</a>	4710760.8909m	10.8mm	-8565.0309m	6.3mm	4286712.5382m	6.0mm
<a href="#">9997-BR29</a>	0.4mm	0.043	2.2mm	0.239	3.8mm	0.212	1.78	<a href="#">BR09</a>	4710842.7564m	14.4mm	-8313.0539m	6.0mm	4286617.9261m	8.3mm
<a href="#">9997-BR30</a>	1.3mm	0.273	7.2mm	0.787	-20.1mm	-0.829	1.28	<a href="#">BR10</a>	4710930.1271m	12.2mm	-8234.2395m	6.3mm	4286522.9812m	12.5mm
<a href="#">9997-BR31</a>	6.5mm	0.954	9.9mm	1.284	19.1mm	0.882	2.29	<a href="#">BR11</a>	4710970.0024m	15.7mm	-8036.4515m	8.0mm	4286474.2874m	14.9mm
<a href="#">9997-BR31</a>	1.9mm	0.266	-2.6mm	-0.410	-20.3mm	-1.929	2.25	<a href="#">BR12</a>	4711052.4005m	12.1mm	-7825.5187m	11.5mm	4286383.3044m	15.3mm
<a href="#">9997-BR32</a>	-9.5mm	-1.103	11.8mm	1.119	3.0mm	0.147	1.59	<a href="#">BR13</a>	4711115.6622m	9.5mm	-7649.1723m	7.4mm	4286315.9668m	7.0mm
<a href="#">9997-BR33</a>	6.9mm	1.013	4.3mm	0.758	-15.0mm	-1.843	2.05	<a href="#">BR14</a>	4711199.9164m	11.0mm	-7535.4434m	6.5mm	4286224.1000m	7.0mm
<a href="#">9997-BR33</a>	0.7mm	0.128	-0.6mm	-0.077	15.2mm	1.837	2.03	<a href="#">BR15</a>	4711248.6218m	7.2mm	-7363.3928m	5.3mm	4286161.6365m	7.6mm
<a href="#">9997-BR34</a>	6.6mm	1.482	1.3mm	0.376	-12.2mm	-2.108	1.27	<a href="#">BR16</a>	4711292.6818m	11.0mm	-7278.4213m	6.6mm	4286110.3026m	20.1mm
<a href="#">9997-BR34</a>	-3.7mm	-0.268	7.6mm	0.605	26.0mm	1.643	2.62	<a href="#">BR17</a>	4711298.9091m	9.7mm	-7049.8890m	4.7mm	4286100.0974m	10.9mm
<a href="#">9997-BR35</a>	-4.0mm	-0.320	9.2mm	1.020	28.7mm	2.510	2.39	<a href="#">BR18</a>	4711368.3138m	10.2mm	-6928.4060m	4.6mm	4286019.8216m	6.2mm
<a href="#">9997-BR35</a>	13.0mm	1.794	2.7mm	0.508	-23.4mm	-2.365	1.78	<a href="#">BR19</a>	4711481.0109m	16.4mm	-6803.5345m	6.3mm	4285903.0338m	8.2mm
<a href="#">9997-BR36</a>	9.7mm	0.943	6.8mm	1.192	11.7mm	0.715	1.82	<a href="#">BR20</a>	4711585.5194m	16.0mm	-6707.2859m	8.9mm	4285794.3767m	11.4mm
<a href="#">9997-BR36</a>	4.5mm	0.544	-2.1mm	-0.264	-10.3mm	-0.656	2.04	<a href="#">BR21</a>	4711670.2304m	17.2mm	-6519.0101m	9.5mm	4285689.9306m	9.6mm
<a href="#">9997-BR37</a>	-1.5mm	-0.246	0.1mm	0.020	-13.8mm	-1.808	1.86	<a href="#">BR22</a>	4711737.9139m	10.5mm	-6290.8917m	5.0mm	4285600.3697m	5.8mm
<a href="#">9997-BR37</a>	6.7mm	0.710	2.4mm	0.385	26.8mm	2.170	2.23	<a href="#">BR23</a>	4711771.8829m	11.3mm	-6067.0277m	4.6mm	4285560.2458m	6.2mm
<a href="#">9997-BR38</a>	3.2mm	0.436	-1.6mm	-0.239	8.3mm	0.388	2.21	<a href="#">BR24</a>	4711821.4463m	7.3mm	-5872.0312m	5.3mm	4285507.1141m	6.8mm
<a href="#">9997-BR38</a>	8.1mm	1.407	8.1mm	1.414	-15.7mm	-1.853	1.72	<a href="#">BR25</a>	4711825.4325m	11.0mm	-5676.0436m	5.4mm	4285504.0181m	5.3mm
<a href="#">9997-BR39</a>	-2.5mm	-0.406	6.8mm	1.336	5.6mm	0.644	1.31	<a href="#">BR26</a>	4711930.7608m	7.1mm	-5491.4627m	5.0mm	4285369.3521m	5.5mm
<a href="#">9997-BR40</a>	1.1mm	0.226	-0.1mm	-0.026	-8.6mm	-0.841	1.79	<a href="#">BR27</a>	4711933.9164m	7.2mm	-5301.0094m	5.3mm	4285374.7172m	5.9mm
<a href="#">9997-BR41</a>	-5.8mm	-0.251	-2.3mm	-0.141	-3.3mm	-0.053	2.67	<a href="#">BR28</a>	4711959.4608m	17.2mm	-5079.0803m	7.6mm	4285332.2885m	10.1mm
<a href="#">9997-BR42</a>	1.9mm	0.232	2.4mm	0.303	-17.8mm	-0.903	1.63	<a href="#">BR29</a>	4712011.6045m	13.5mm	-4882.9883m	7.1mm	4285262.5705m	8.0mm
<a href="#">9997-BR43</a>	-0.5mm	-0.055	-1.3mm	-0.162	-12.6mm	-1.188	1.88	<a href="#">BR30</a>	4712042.1751m	12.0mm	-4689.0695m	6.5mm	4285229.6985m	16.3mm
<a href="#">9997-BR44</a>	18.2mm	1.987	12.5mm	1.539	-17.7mm	-1.326	2.18	<a href="#">BR31</a>	4712041.5159m	4.9mm	-4438.9068m	3.4mm	4285226.5360m	6.0mm
<a href="#">9997-BR45</a>	3.4mm	0.478	3.2mm	0.429	-14.9mm	-1.117	1.88	<a href="#">BR32</a>	4712069.4898m	13.8mm	-4238.3475m	9.1mm	4285194.3246m	14.6mm
<a href="#">9997-BR46</a>	2.5mm	0.145	5.6mm	0.422	-14.2mm	-0.614	2.36	<a href="#">BR33</a>	4712107.6922m	5.3mm	-4064.1779m	4.2mm	4285147.6910m	4.4mm
<a href="#">9997-BR47</a>	15.2mm	2.413	6.1mm	0.871	-24.2mm	-1.664	1.85	<a href="#">BR34</a>	4712071.8367m	6.9mm	-3823.4176m	4.0mm	4285185.6056m	3.9mm
<a href="#">9997-BR48</a>	8.2mm	0.910	0.0mm	0.004	-6.0mm	-0.322	2.00	<a href="#">BR35</a>	4712098.4464m	7.8mm	-3589.0739m	4.2mm	4285155.7771m	3.8mm
<a href="#">9997-BR49</a>	1.5mm	0.138	-1.3mm	-0.154	-13.2mm	-0.321	2.10	<a href="#">BR36</a>	4712221.2182m	6.9mm	-3409.6687m	4.5mm	4285013.8717m	4.7mm
<a href="#">9997-BR50</a>	8.4mm	0.338	3.0mm	0.299	-18.2mm	-0.434	2.25	<a href="#">BR37</a>	4712278.5341m	6.1mm	-3205.6134m	4.3mm	4284946.4665m	4.8mm
<a href="#">9997-BR51</a>	-2.2mm	-0.242	-2.4mm	-0.225	-6.4mm	-0.450	1.98	<a href="#">BR38</a>	4712301.4953m	6.0mm	-3110.9170m	4.1mm	4284918.5868m	4.5mm
<a href="#">9997-BR52</a>	2.6mm	0.392	2.0mm	0.311	-12.1mm	-0.917	1.71	<a href="#">BR39</a>	4712238.5009m	9.5mm	-2917.4214m	5.8mm	4284991.7675m	6.0mm
<a href="#">9997-BR53</a>	0.6mm	0.074	-1.6mm	-0.256	1.8mm	0.092	1.63	<a href="#">BR40</a>	4712175.0923m	7.6mm	-2723.0440m	4.3mm	4285069.1464m	5.3mm
<a href="#">9997-BR54</a>	4.4mm	0.387	0.9mm	0.116	-10.7mm	-0.668	1.95	<a href="#">BR41</a>	4712172.7699m	14.2mm	-2445.9255m	7.1mm	4285054.3174m	10.6mm
<a href="#">9997-BR55</a>	-7.5mm	-0.250	16.9mm	0.594	-60.8mm	-1.028	2.86	<a href="#">BR42</a>	4712258.4203m	11.4mm	-2290.6584m	6.7mm	4284953.5123m	14.3mm
								<a href="#">BR43</a>	4712316.7742m	7.5mm	-2029.2485m	5.8mm	4284884.9088m	7.2mm
								<a href="#">BR44</a>	4712430.6666m	5.7mm	-1930.4727m	4.9mm	4284760.3955m	6.5mm
								<a href="#">BR45</a>	4712402.1952m	9.2mm	-1639.7382m	5.1mm	4284784.5888m	5.3mm
								<a href="#">BR46</a>	4712450.1351m	12.9mm	-1501.9336m	7.2mm	4284734.3344m	6.8mm
								<a href="#">BR47</a>	4712474.4600m	7.4mm	-1317.5453m	4.8mm	4284702.4013m	5.9mm
								<a href="#">BR48</a>	4712526.8461m	9.0mm	-1096.4249m	5.8mm	4284641.5294m	12.1mm
								<a href="#">BR49</a>	4712520.7783m	15.4mm	-802.3223m	6.1mm	4284639.0131m	9.6mm
								<a href="#">BR50</a>	4712362.8515m	5.9mm	-652.1424m	5.2mm	4284821.2504m	5.6mm
								<a href="#">BR51</a>	4712384.2379m	12.7mm	-412.6335m	8.2mm	4284796.7946m	4.9mm
								<a href="#">BR52</a>	4712280.6870m	10.9mm	-197.9038m	5.7mm	4284937.4892m	6.4mm
								<a href="#">BR53</a>	4712366.6406m	12.7mm	-84.2371m	7.1mm	4284834.6861m	6.9mm
								<a href="#">BR54</a>	4712626.8040m	10.1mm	1370.8440m	6.0mm	4284506.6103m	6.9mm
								<a href="#">BR55</a>	4712614.7741m	10.8mm	1731.1458m	6.9mm	4284510.0162m	7.1mm

**5. Puntos Ajustados en WGS84 (Coord. Cart. y Desv. Típica)**

Punto	X	$\sigma$	Y	$\sigma$	Z	$\sigma$
<a href="#">555088</a>	4711749.9970m	0.0mm	-6272.2760m	0.0mm	4285585.7270m	0.0mm
<a href="#">8002</a>	4712682.2190m	0.0mm	125.4930m	0.0mm	4284529.3570m	0.0mm
<a href="#">8003</a>	4712045.3490m	0.0mm	-1360.5380m	0.0mm	4285223.7520m	0.0mm
<a href="#">8006B</a>	4711765.2220m	0.0mm	-6875.7360m	0.0mm	4285558.5970m	0.0mm
<a href="#">8007</a>	4710925.9580m	0.0mm	-8231.0810m	0.0mm	4286529.4890m	0.0mm
<a href="#">9997</a>	4712045.3063m	0.0mm	-1369.9463m	0.0mm	4285224.0650m	0.0mm
<a href="#">BR01</a>	4710144.1634m	26.3mm	-9771.6122m	14.5mm	4287376.4336m	9.7mm
<a href="#">BR02</a>	4710283.9597m	25.3mm	-9618.4389m	11.4mm	4287225.9557m	16.6mm
<a href="#">BR03</a>	4710377.8572m	13.4mm	-9461.7426m	8.3mm	4287131.9392m	11.0mm
<a href="#">BR04</a>	4710449.8633m	11.2mm	-9266.5067m	8.3mm	4287060.0515m	10.1mm
<a href="#">BR05</a>	4710535.1367m	9.8mm	-9068.8565m	5.7mm	4286967.9778m	6.8mm
<a href="#">BR06</a>	4710563.8378m	22.0mm	-8935.8414m	12.0mm	4286935.2342m	11.9mm



**6. Puntos Ajustados en WGS84 (Coord. Geogr. y Desv. Típica)**

Punto	Latitud	$\sigma$	Longitud	$\sigma$	Altitud	Elevación	$\sigma$
<a href="#">555088</a>	N 42° 28' 47.10388"	0.0mm	O 0° 04' 34.57930"	0.0mm	784.2520m	732.3846m	0.0mm
<a href="#">8002</a>	N 42° 28' 01.54870"	0.0mm	E 0° 00' 05.49258"	0.0mm	755.4602m	703.6572m	0.0mm
<a href="#">8003</a>	N 42° 28' 32.07676"	0.0mm	O 0° 00' 59.55611"	0.0mm	754.7091m	702.8535m	0.0mm
<a href="#">8006B</a>	N 42° 28' 46.10390"	0.0mm	O 0° 05' 00.99576"	0.0mm	777.7800m	725.9118m	0.0mm
<a href="#">8007</a>	N 42° 29' 27.62526"	0.0mm	O 0° 06' 00.39212"	0.0mm	816.2076m	764.2985m	0.0mm
<a href="#">9997</a>	N 42° 28' 32.08512"	0.0mm	O 0° 00' 59.96795"	0.0mm	754.8910m	703.0352m	0.0mm
<a href="#">BR01</a>	N 42° 30' 04.90990"	13.2mm	O 0° 07' 07.91404"	14.4mm	814.0904m	762.1461m	24.8mm
<a href="#">BR02</a>	N 42° 29' 58.26138"	8.9mm	O 0° 07' 01.19386"	11.4mm	815.2635m	763.3263m	28.9mm
<a href="#">BR03</a>	N 42° 29' 53.96661"	7.0mm	O 0° 06' 54.32385"	8.3mm	820.7437m	768.8112m	15.8mm
<a href="#">BR04</a>	N 42° 29' 50.68132"	9.3mm	O 0° 06' 45.76841"	8.3mm	824.9831m	773.0543m	11.8mm
<a href="#">BR05</a>	N 42° 29' 46.62325"	7.7mm	O 0° 06' 37.10639"	5.7mm	825.3723m	773.4510m	9.2mm
<a href="#">BR06</a>	N 42° 29' 45.21822"	10.3mm	O 0° 06' 31.27957"	12.1mm	824.2272m	772.3074m	22.8mm
<a href="#">BR07</a>	N 42° 29' 39.99374"	7.0mm	O 0° 06' 22.76997"	6.9mm	820.1339m	768.2187m	8.8mm
<a href="#">BR08</a>	N 42° 29' 35.59906"	6.2mm	O 0° 06' 15.02699"	6.3mm	818.5789m	766.6672m	10.7mm
<a href="#">BR09</a>	N 42° 29' 31.55638"	6.3mm	O 0° 06' 03.98767"	6.0mm	814.7005m	762.7921m	15.3mm
<a href="#">BR10</a>	N 42° 29' 27.37839"	5.4mm	O 0° 06' 00.53009"	6.3mm	814.8900m	762.9811m	16.6mm
<a href="#">BR11</a>	N 42° 29' 25.34957"	7.9mm	O 0° 05' 51.86713"	8.0mm	811.1505m	759.2434m	20.2mm
<a href="#">BR12</a>	N 42° 29' 21.37983"	9.6mm	O 0° 05' 42.62570"	11.5mm	810.1933m	758.2896m	17.0mm
<a href="#">BR13</a>	N 42° 29' 18.39250"	7.3mm	O 0° 05' 34.90022"	7.3mm	811.1464m	759.2454m	9.3mm
<a href="#">BR14</a>	N 42° 29' 14.35726"	8.1mm	O 0° 05' 29.91498"	6.5mm	811.0920m	759.1943m	10.3mm
<a href="#">BR15</a>	N 42° 29' 11.80460"	7.7mm	O 0° 05' 22.37899"	5.3mm	804.6189m	752.7238m	7.1mm
<a href="#">BR16</a>	N 42° 29' 09.61651"	9.2mm	O 0° 05' 18.65585"	6.6mm	802.3415m	750.4483m	21.0mm
<a href="#">BR17</a>	N 42° 29' 09.24396"	7.1mm	O 0° 05' 08.65011"	4.7mm	799.7847m	747.8965m	12.8mm
<a href="#">BR18</a>	N 42° 29' 05.81061"	6.3mm	O 0° 05' 03.32701"	4.6mm	796.6158m	744.7309m	10.2mm
<a href="#">BR19</a>	N 42° 29' 00.55731"	6.8mm	O 0° 04' 57.85300"	6.3mm	800.7145m	748.8345m	17.0mm
<a href="#">BR20</a>	N 42° 28' 55.67655"	7.6mm	O 0° 04' 53.63281"	8.9mm	804.3019m	752.4264m	18.2mm
<a href="#">BR21</a>	N 42° 28' 51.33245"	9.7mm	O 0° 04' 45.38532"	9.5mm	796.0429m	744.1716m	17.2mm
<a href="#">BR22</a>	N 42° 28' 47.71770"	5.8mm	O 0° 04' 35.39494"	5.0mm	785.2474m	733.3795m	10.5mm
<a href="#">BR23</a>	N 42° 28' 46.02185"	4.9mm	O 0° 04' 25.59300"	4.6mm	782.9868m	731.1204m	11.9mm
<a href="#">BR24</a>	N 42° 28' 43.67285"	6.2mm	O 0° 04' 17.05404"	5.3mm	783.4778m	731.6132m	7.8mm
<a href="#">BR25</a>	N 42° 28' 43.51688"	7.4mm	O 0° 04' 08.47429"	5.4mm	784.1498m	732.2850m	9.7mm
<a href="#">BR26</a>	N 42° 28' 37.99835"	5.8mm	O 0° 04' 00.38872"	5.0mm	770.7310m	718.8705m	6.9mm
<a href="#">BR27</a>	N 42° 28' 38.06229"	6.0mm	O 0° 03' 52.05148"	5.3mm	776.5206m	724.6592m	7.1mm
<a href="#">BR28</a>	N 42° 28' 36.49463"	8.5mm	O 0° 03' 42.33534"	7.6mm	766.5287m	714.6626m	18.0mm
<a href="#">BR29</a>	N 42° 28' 33.69187"	6.5mm	O 0° 03' 33.74911"	7.1mm	757.7550m	705.8905m	14.2mm
<a href="#">BR30</a>	N 42° 28' 32.24158"	8.5mm	O 0° 03' 25.25913"	6.5mm	757.9596m	706.0957m	18.3mm
<a href="#">BR31</a>	N 42° 28' 32.18573"	3.9mm	O 0° 03' 14.30856"	3.4mm	755.1592m	703.2945m	6.7mm
<a href="#">BR32</a>	N 42° 28' 30.80778"	9.7mm	O 0° 03' 05.52818"	9.1mm	753.9040m	702.0400m	17.6mm
<a href="#">BR33</a>	N 42° 28' 28.86063"	4.2mm	O 0° 02' 57.90270"	4.2mm	750.4778m	698.6145m	5.4mm
<a href="#">BR34</a>	N 42° 28' 30.55580"	5.0mm	O 0° 02' 47.36509"	4.0mm	749.4856m	697.6212m	6.2mm
<a href="#">BR35</a>	N 42° 28' 29.26465"	5.4mm	O 0° 02' 37.10612"	4.2mm	748.8340m	696.9701m	6.9mm
<a href="#">BR36</a>	N 42° 28' 23.18946"	4.0mm	O 0° 02' 29.24905"	4.5mm	743.4679m	691.6099m	7.4mm
<a href="#">BR37</a>	N 42° 28' 20.32738"	4.9mm	O 0° 02' 20.31537"	4.3mm	740.1238m	688.2688m	6.0mm
<a href="#">BR38</a>	N 42° 28' 19.15999"	3.8mm	O 0° 02' 16.16968"	4.1mm	738.1881m	686.3343m	6.5mm
<a href="#">BR39</a>	N 42° 28' 22.29020"	6.9mm	O 0° 02' 07.70179"	5.8mm	741.0461m	689.1885m	8.9mm
<a href="#">BR40</a>	N 42° 28' 25.52966"	4.1mm	O 0° 01' 59.19508"	4.3mm	746.4405m	694.5805m	8.3mm
<a href="#">BR41</a>	N 42° 28' 25.22937"	8.1mm	O 0° 01' 47.06490"	7.1mm	734.6021m	682.7437m	15.8mm
<a href="#">BR42</a>	N 42° 28' 20.94757"	7.8mm	O 0° 01' 40.26661"	6.7mm	729.6518m	677.7986m	16.5mm
<a href="#">BR43</a>	N 42° 28' 18.03362"	5.8mm	O 0° 01' 28.82309"	5.8mm	726.2824m	674.4340m	8.7mm
<a href="#">BR44</a>	N 42° 28' 12.56639"	5.3mm	O 0° 01' 24.49749"	4.9mm	726.1878m	674.3454m	6.9mm
<a href="#">BR45</a>	N 42° 28' 13.77003"	5.8mm	O 0° 01' 11.77237"	5.1mm	721.4408m	669.6002m	8.9mm
<a href="#">BR46</a>	N 42° 28' 11.52090"	8.5mm	O 0° 01' 05.73991"	7.2mm	722.8367m	670.9997m	11.8mm
<a href="#">BR47</a>	N 42° 28' 10.22660"	4.8mm	O 0° 00' 57.66890"	4.8mm	719.1777m	667.3441m	8.2mm
<a href="#">BR48</a>	N 42° 28' 07.62664"	6.4mm	O 0° 00' 47.98994"	5.8mm	716.6777m	664.8494m	13.7mm
<a href="#">BR49</a>	N 42° 28' 07.70054"	8.4mm	O 0° 00' 35.11727"	6.1mm	710.4592m	658.6377m	16.1mm
<a href="#">BR50</a>	N 42° 28' 15.51243"	5.2mm	O 0° 00' 28.54492"	5.2mm	716.9972m	665.1709m	6.3mm
<a href="#">BR51</a>	N 42° 28' 14.46053"	7.4mm	O 0° 00' 18.06130"	8.2mm	716.2394m	664.4175m	11.4mm



<a href="#">BR52</a>	N 42° 28' 20.08947"	5.7mm	O 0° 00' 08.66260"	5.7mm	734.8488m	683.0248m	11.3mm
<a href="#">BR53</a>	N 42° 28' 15.75164"	6.1mm	O 0° 00' 03.68714"	7.1mm	728.8314m	677.0130m	13.1mm
<a href="#">BR54</a>	N 42° 28' 02.21304"	8.6mm	E 0° 00' 59.99984"	6.0mm	699.3706m	647.5891m	8.7mm
<a href="#">BR55</a>	N 42° 28' 02.55506"	7.1mm	E 0° 01' 15.76992"	6.9mm	692.8836m	641.1056m	10.8mm

Punto	Eje Semimayor	Eje Semiminor	Ángulo	95% confidence radius
<a href="#">BR23</a>	5.3mm	4.1mm	-35.8°	11.7mm
<a href="#">BR24</a>	6.2mm	5.3mm	1.5°	14.0mm
<a href="#">BR25</a>	7.5mm	5.2mm	-13.3°	16.0mm
<a href="#">BR26</a>	5.8mm	5.0mm	-2.9°	13.3mm
<a href="#">BR27</a>	6.5mm	4.7mm	33.8°	14.1mm
<a href="#">BR28</a>	8.8mm	7.2mm	-27.7°	19.7mm
<a href="#">BR29</a>	7.7mm	5.8mm	-53.6°	16.9mm
<a href="#">BR30</a>	8.6mm	6.3mm	-12.9°	18.7mm
<a href="#">BR31</a>	4.0mm	3.4mm	-19.5°	9.0mm
<a href="#">BR32</a>	11.8mm	6.2mm	-42.0°	24.1mm
<a href="#">BR33</a>	4.4mm	4.0mm	-39.1°	10.3mm
<a href="#">BR34</a>	5.0mm	4.0mm	-5.4°	11.2mm
<a href="#">BR35</a>	5.6mm	3.9mm	-22.7°	12.1mm
<a href="#">BR36</a>	4.9mm	3.4mm	55.6°	10.5mm
<a href="#">BR37</a>	5.0mm	4.2mm	17.6°	11.3mm
<a href="#">BR38</a>	4.4mm	3.4mm	51.4°	9.8mm
<a href="#">BR39</a>	6.9mm	5.8mm	-1.1°	15.6mm
<a href="#">BR40</a>	4.5mm	3.9mm	51.4°	10.3mm
<a href="#">BR41</a>	8.6mm	6.4mm	-31.7°	18.8mm
<a href="#">BR42</a>	8.7mm	5.5mm	-34.7°	18.3mm
<a href="#">BR43</a>	6.3mm	5.4mm	44.8°	14.3mm
<a href="#">BR44</a>	5.6mm	4.5mm	34.7°	12.5mm
<a href="#">BR45</a>	5.8mm	5.1mm	9.1°	13.4mm
<a href="#">BR46</a>	8.7mm	7.1mm	-17.7°	19.4mm
<a href="#">BR47</a>	5.3mm	4.3mm	-45.0°	11.9mm
<a href="#">BR48</a>	6.8mm	5.2mm	-34.2°	15.0mm
<a href="#">BR49</a>	8.4mm	6.0mm	-9.5°	18.2mm
<a href="#">BR50</a>	5.6mm	4.7mm	45.1°	12.6mm
<a href="#">BR51</a>	10.3mm	4.0mm	49.1°	20.6mm
<a href="#">BR52</a>	6.9mm	4.1mm	45.2°	14.3mm
<a href="#">BR53</a>	7.6mm	5.6mm	60.3°	16.5mm
<a href="#">BR54</a>	9.5mm	4.4mm	-29.0°	19.3mm
<a href="#">BR55</a>	7.9mm	5.9mm	42.4°	17.3mm

### 7. Elipses de Error de los Puntos Ajustados

Punto	Eje Semimayor	Eje Semiminor	Ángulo	95% confidence radius
<a href="#">555088</a>	0.0mm	0.0mm	90.0°	0.0mm
<a href="#">8002</a>	0.0mm	0.0mm	90.0°	0.0mm
<a href="#">8003</a>	0.0mm	0.0mm	90.0°	0.0mm
<a href="#">8006B</a>	0.0mm	0.0mm	90.0°	0.0mm
<a href="#">8007</a>	0.0mm	0.0mm	90.0°	0.0mm
<a href="#">9997</a>	0.0mm	0.0mm	90.0°	0.0mm
<a href="#">BR01</a>	18.5mm	6.2mm	48.3°	36.8mm
<a href="#">BR02</a>	11.4mm	8.9mm	-84.3°	25.2mm
<a href="#">BR03</a>	8.4mm	6.8mm	-70.2°	18.8mm
<a href="#">BR04</a>	9.4mm	8.2mm	12.5°	21.6mm
<a href="#">BR05</a>	7.9mm	5.4mm	-17.6°	16.9mm
<a href="#">BR06</a>	13.2mm	8.8mm	-57.0°	28.0mm
<a href="#">BR07</a>	7.5mm	6.2mm	43.2°	17.0mm
<a href="#">BR08</a>	6.7mm	5.9mm	48.2°	15.3mm
<a href="#">BR09</a>	6.7mm	5.6mm	-36.0°	15.2mm
<a href="#">BR10</a>	6.3mm	5.4mm	83.4°	14.3mm
<a href="#">BR11</a>	9.1mm	6.6mm	-45.9°	19.7mm
<a href="#">BR12</a>	11.9mm	9.0mm	-65.2°	26.1mm
<a href="#">BR13</a>	7.8mm	6.8mm	47.8°	17.9mm
<a href="#">BR14</a>	8.1mm	6.5mm	-1.2°	18.0mm
<a href="#">BR15</a>	8.0mm	4.8mm	20.4°	16.6mm
<a href="#">BR16</a>	9.6mm	6.0mm	-20.7°	20.2mm
<a href="#">BR17</a>	7.2mm	4.5mm	-14.0°	15.2mm
<a href="#">BR18</a>	6.3mm	4.6mm	2.3°	13.7mm
<a href="#">BR19</a>	6.8mm	6.3mm	-8.2°	16.0mm
<a href="#">BR20</a>	9.0mm	7.4mm	-73.8°	20.3mm
<a href="#">BR21</a>	11.6mm	7.1mm	44.1°	24.2mm
<a href="#">BR22</a>	6.0mm	4.7mm	24.8°	13.3mm

## 2.2.2. Parámetros de transformación

### Transformación de Similitud con 7 Parámetros

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#### CARRETERA N-260. TRAMO: FISCAL-BALUPOR

Nombre del usuario	Fecha y hora	20:32:50 04/05/2009	
Sistema de coordenadas de UTM	Zona	30 North	
Datum del proyecto	European (Portugal/Spain) 1950	Modelo de geoides	
Unidades de coordenadas de Metro			
Unidades de distancia	Metro		
Unidades de altitud	Metro		
Unidades de ángulo	Grados		
Número de puntos	22		
Elipsoide	International 1924	(6378388.0000m, 6356911.9461m)	
Residuo Medio	0.0802m		

### 1. Parámetros de Transformación Ajustados WGS84 -> Nacional

Parámetro	Valor	Desviación Típica
Escala	0.99998101509	0.00000125506
Rotación X	3.8056"	0.2711"
Rotación Y	8.5516"	0.6043"
Rotación Z	-7.5067"	0.2764"
Traslación X	361.8351m	13.8815m
Traslación Y	-150.3731m	8.9012m
Traslación Z	15.5658m	14.8149m

### 2. Puntos WGS84

Punto	X	Y	Z
<a href="#">17754</a>	4705154.8060m	-28808.4090m	4293939.0360m
<a href="#">17804</a>	4706135.7600m	-13615.6400m	4293615.6570m
<a href="#">17865</a>	4704007.6910m	2748.9250m	4295910.7260m
<a href="#">17935</a>	4704336.8500m	21527.9420m	4295561.2370m
<a href="#">21045</a>	4716545.0760m	-29738.4000m	4280570.5920m
<a href="#">21118</a>	4713678.1210m	-11492.5400m	4285239.7250m
<a href="#">21125</a>	4716286.4820m	-7439.3020m	4282179.6090m
<a href="#">21215</a>	4715654.1700m	16177.0080m	4281757.5170m
<a href="#">21233</a>	4718686.5350m	20611.0230m	4278338.2670m
<a href="#">555081</a>	4709996.8570m	-9848.1850m	4287537.2930m
<a href="#">555088</a>	4711749.9970m	-6272.2760m	4285585.7270m
<a href="#">555094</a>	4712083.6520m	-2392.8730m	4285161.2430m
<a href="#">555098</a>	4712677.7350m	156.1540m	4284531.5600m
<a href="#">8000</a>	4712709.9270m	1876.8670m	4284404.0710m
<a href="#">8001</a>	4712609.6720m	1373.7090m	4284615.9400m
<a href="#">8002</a>	4712682.2190m	125.4930m	4284529.3570m

Punto	X	Y	Z
<a href="#">8003</a>	4712045.3490m	-1360.5380m	4285223.7520m
<a href="#">8004</a>	4712461.4030m	-3401.2300m	4284794.1890m
<a href="#">8005</a>	4712295.5310m	-5534.7520m	4284976.5270m
<a href="#">8006B</a>	4711765.2220m	-6875.7360m	4285558.5970m
<a href="#">8007</a>	4710925.9580m	-8231.0810m	4286529.4890m
<a href="#">9997</a>	4712045.3063m	-1369.9463m	4285224.0650m

### 3. Puntos de Control (Coordenadas Planas Nacionales)

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">17754</a>	4717207.5300m	717528.8300m	1580.5170m
<a href="#">17804</a>	4716844.7500m	732744.4400m	2033.5600m
<a href="#">17865</a>	4720552.6620m	748987.2810m	2005.0000m
<a href="#">17935</a>	4720738.8570m	767773.1310m	2045.9970m
<a href="#">21045</a>	4699634.6800m	717217.5100m	952.6600m
<a href="#">21118</a>	4705656.5900m	735264.8400m	1928.1800m
<a href="#">21125</a>	4701784.0200m	739457.2800m	1781.5970m
<a href="#">21215</a>	4702734.1430m	763058.5050m	1045.7430m
<a href="#">21233</a>	4698322.7770m	767652.8540m	991.3550m
<a href="#">555081</a>	4709893.0080m	736758.3480m	762.0710m
<a href="#">555088</a>	4707397.5270m	740425.4000m	732.2120m
<a href="#">555094</a>	4706996.6640m	744322.1380m	689.0470m
<a href="#">555098</a>	4706221.6270m	746900.7460m	701.6740m
<a href="#">8000</a>	4706166.7840m	748624.8860m	639.5880m
<a href="#">8001</a>	4706372.8690m	748113.9840m	708.5720m
<a href="#">8002</a>	4706215.8910m	746870.2630m	703.4840m
<a href="#">8003</a>	4707105.1410m	745351.5020m	702.7240m
<a href="#">8004</a>	4706435.3890m	743332.8280m	720.3580m
<a href="#">8005</a>	4706606.2770m	741191.5170m	722.5400m
<a href="#">8006B</a>	4707345.8910m	739823.2770m	725.7680m
<a href="#">8007</a>	4708580.1650m	738423.2080m	764.0920m
<a href="#">9997</a>	4707105.0670m	745342.0880m	702.9060m

### 4. Puntos transformados a Coordenadas Planas Nacionales

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">17754</a>	4717207.4138m	717528.7584m	1580.4950m
<a href="#">17804</a>	4716844.7319m	732744.3565m	2033.3547m
<a href="#">17865</a>	4720552.6281m	748987.3299m	2004.9741m
<a href="#">17935</a>	4720738.8182m	767773.1311m	2046.0002m
<a href="#">21045</a>	4699634.5718m	717217.5632m	952.5107m
<a href="#">21118</a>	4705656.6844m	735264.8205m	1928.2592m
<a href="#">21125</a>	4701784.1028m	739457.3280m	1781.6219m
<a href="#">21215</a>	4702734.0627m	763058.5479m	1045.7328m
<a href="#">21233</a>	4698322.6673m	767652.7789m	991.3505m
<a href="#">555081</a>	4709893.0444m	736758.3337m	762.3817m
<a href="#">555088</a>	4707397.5694m	740425.4032m	732.3217m
<a href="#">555094</a>	4706996.6874m	744322.1465m	689.0440m
<a href="#">555098</a>	4706221.6375m	746900.7548m	701.5904m
<a href="#">8000</a>	4706166.7844m	748624.8936m	639.4989m
<a href="#">8001</a>	4706372.8719m	748113.9918m	708.4688m
<a href="#">8002</a>	4706215.9020m	746870.2708m	703.4108m
<a href="#">8003</a>	4707105.1580m	745351.5091m	702.6740m
<a href="#">8004</a>	4706435.4212m	743332.8370m	720.3171m

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">8005</a>	4706606.3202m	741191.5244m	722.6226m
<a href="#">8006B</a>	4707345.9373m	739823.2795m	725.8648m
<a href="#">8007</a>	4708580.2096m	738423.2016m	764.2951m
<a href="#">9997</a>	4707105.0846m	745342.0955m	702.8560m
<a href="#">BR01</a>	4709677.7421m	736842.5915m	762.1886m
<a href="#">BR02</a>	4709477.8731m	737002.9648m	763.3626m
<a href="#">BR03</a>	4709350.7309m	737164.2945m	768.8420m
<a href="#">BR04</a>	4709256.0428m	737363.0426m	773.0789m
<a href="#">BR05</a>	4709137.6048m	737565.0422m	773.4663m
<a href="#">BR06</a>	4709098.8023m	737699.5340m	772.3190m
<a href="#">BR07</a>	4708944.2743m	737899.2937m	768.2249m
<a href="#">BR08</a>	4708814.7506m	738080.6866m	766.6687m
<a href="#">BR09</a>	4708698.6642m	738336.9675m	762.7872m
<a href="#">BR10</a>	4708572.4864m	738420.3124m	762.9778m
<a href="#">BR11</a>	4708516.6751m	738620.2279m	759.2350m
<a href="#">BR12</a>	4708401.4503m	738835.4065m	758.2757m
<a href="#">BR13</a>	4708315.3492m	739014.9424m	759.2267m
<a href="#">BR14</a>	4708194.7792m	739133.0306m	759.1723m
<a href="#">BR15</a>	4708121.9451m	739307.7891m	752.6971m
<a href="#">BR16</a>	4708057.3688m	739395.1120m	750.4191m
<a href="#">BR17</a>	4708053.7303m	739623.9523m	747.8574m
<a href="#">BR18</a>	4707952.0024m	739749.1307m	744.6879m
<a href="#">BR19</a>	4707794.2547m	739879.6916m	748.7872m
<a href="#">BR20</a>	4707647.0154m	739981.2340m	752.3757m
<a href="#">BR21</a>	4707519.5003m	740174.1663m	744.1154m
<a href="#">BR22</a>	4707415.8615m	740406.1260m	733.3172m
<a href="#">BR23</a>	4707371.2746m	740631.7465m	731.0526m
<a href="#">BR24</a>	4707305.5503m	740829.2276m	731.5405m
<a href="#">BR25</a>	4707307.5126m	741025.3046m	732.2080m
<a href="#">BR26</a>	4707143.6692m	741215.8232m	718.7889m
<a href="#">BR27</a>	4707152.2341m	741406.1329m	724.5738m
<a href="#">BR29</a>	4707031.9084m	741828.7386m	705.8018m
<a href="#">BR30</a>	4706993.9010m	742024.1616m	706.0028m
<a href="#">BR31</a>	4707000.8601m	742274.2721m	703.2024m
<a href="#">BR32</a>	4706965.3336m	742476.2614m	701.9377m
<a href="#">BR33</a>	4706911.3288m	742652.4810m	698.5083m
<a href="#">BR34</a>	4706972.0015m	742891.2897m	697.5123m
<a href="#">BR35</a>	4706940.3445m	743126.9426m	696.8523m
<a href="#">BR36</a>	4706759.2002m	743312.9097m	691.4887m
<a href="#">BR37</a>	4706678.0374m	743520.0054m	688.1398m
<a href="#">BR38</a>	4706645.3348m	743615.9380m	686.2117m
<a href="#">BR39</a>	4706748.6577m	743805.9416m	689.0547m
<a href="#">BR40</a>	4706855.3843m	743996.7050m	694.4421m
<a href="#">BR41</a>	4706855.8241m	744274.0337m	682.5976m
<a href="#">BR42</a>	4706729.1850m	744433.9116m	677.6467m
<a href="#">BR43</a>	4706648.4659m	744698.3966m	674.2642m
<a href="#">BR44</a>	4706483.2904m	744803.1064m	674.1777m
<a href="#">BR45</a>	4706530.6292m	745092.4072m	669.4169m
<a href="#">BR46</a>	4706466.0942m	745232.6093m	670.8195m
<a href="#">BR47</a>	4706432.6663m	745418.3402m	667.1549m
<a href="#">BR48</a>	4706360.2436m	745642.2060m	664.6556m

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">BR49</a>	4706372.8855m	745936.1088m	658.4284m
<a href="#">BR50</a>	4706619.1587m	746077.6996m	664.9574m
<a href="#">BR51</a>	4706595.1671m	746318.2610m	664.1947m
<a href="#">BR52</a>	4706776.3938m	746526.7592m	682.7948m
<a href="#">BR53</a>	4706646.6029m	746645.1166m	676.7778m
<a href="#">BR54</a>	4706280.5909m	748114.4025m	647.2924m
<a href="#">BR55</a>	4706303.9698m	748474.1899m	640.7968m

- Estas coordenadas serán asignadas en caso de seleccionar 'Transformar todos los Puntos' en la Tabla de Asignación

### 5. Residuos de los Puntos de Control (Coordenadas Planas Nacionales)

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">17754</a>	0.1162m	0.0716m	0.0220m
<a href="#">17804</a>	0.0181m	0.0835m	0.2053m
<a href="#">17865</a>	0.0339m	-0.0489m	0.0259m
<a href="#">17935</a>	0.0388m	-0.0001m	-0.0032m
<a href="#">21045</a>	0.1082m	-0.0532m	0.1493m
<a href="#">21118</a>	-0.0944m	0.0195m	-0.0792m
<a href="#">21125</a>	-0.0828m	-0.0480m	-0.0249m
<a href="#">21215</a>	0.0803m	-0.0429m	0.0102m
<a href="#">21233</a>	0.1097m	0.0751m	0.0045m
<a href="#">555081</a>	-0.0364m	0.0143m	-0.3107m
<a href="#">555088</a>	-0.0424m	-0.0032m	-0.1097m
<a href="#">555094</a>	-0.0234m	-0.0085m	0.0030m
<a href="#">555098</a>	-0.0105m	-0.0088m	0.0836m
<a href="#">8000</a>	-0.0004m	-0.0076m	0.0891m
<a href="#">8001</a>	-0.0029m	-0.0078m	0.1032m
<a href="#">8002</a>	-0.0110m	-0.0078m	0.0732m
<a href="#">8003</a>	-0.0170m	-0.0071m	0.0500m
<a href="#">8004</a>	-0.0322m	-0.0090m	0.0409m
<a href="#">8005</a>	-0.0432m	-0.0074m	-0.0826m
<a href="#">8006B</a>	-0.0463m	-0.0025m	-0.0968m
<a href="#">8007</a>	-0.0446m	0.0064m	-0.2031m
<a href="#">9997</a>	-0.0176m	-0.0075m	0.0500m

## 6. Residuos Distribuidos

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">17754</a>	0.1162m	0.0716m	0.0220m
<a href="#">17804</a>	0.0181m	0.0835m	0.2053m
<a href="#">17865</a>	0.0339m	-0.0489m	0.0259m
<a href="#">17935</a>	0.0388m	-0.0001m	-0.0032m
<a href="#">21045</a>	0.1082m	-0.0532m	0.1493m
<a href="#">21118</a>	-0.0944m	0.0195m	-0.0792m
<a href="#">21125</a>	-0.0828m	-0.0480m	-0.0249m
<a href="#">21215</a>	0.0803m	-0.0429m	0.0102m
<a href="#">21233</a>	0.1097m	0.0751m	0.0045m
<a href="#">555081</a>	-0.0364m	0.0143m	-0.3107m
<a href="#">555088</a>	-0.0424m	-0.0032m	-0.1097m
<a href="#">555094</a>	-0.0234m	-0.0085m	0.0030m
<a href="#">555098</a>	-0.0105m	-0.0088m	0.0836m
<a href="#">8000</a>	-0.0004m	-0.0076m	0.0891m
<a href="#">8001</a>	-0.0029m	-0.0078m	0.1032m
<a href="#">8002</a>	-0.0110m	-0.0078m	0.0732m
<a href="#">8003</a>	-0.0170m	-0.0071m	0.0500m
<a href="#">8004</a>	-0.0322m	-0.0090m	0.0409m
<a href="#">8005</a>	-0.0432m	-0.0074m	-0.0826m
<a href="#">8006B</a>	-0.0463m	-0.0025m	-0.0968m
<a href="#">8007</a>	-0.0446m	0.0064m	-0.2031m
<a href="#">9997</a>	-0.0176m	-0.0075m	0.0500m
<a href="#">BR01</a>	-0.0364m	0.0128m	-0.2823m
<a href="#">BR02</a>	-0.0368m	0.0103m	-0.2394m
<a href="#">BR03</a>	-0.0372m	0.0086m	-0.2103m
<a href="#">BR04</a>	-0.0378m	0.0070m	-0.1877m
<a href="#">BR05</a>	-0.0387m	0.0058m	-0.1715m
<a href="#">BR06</a>	-0.0392m	0.0053m	-0.1666m
<a href="#">BR07</a>	-0.0405m	0.0048m	-0.1652m
<a href="#">BR08</a>	-0.0419m	0.0050m	-0.1733m
<a href="#">BR09</a>	-0.0439m	0.0059m	-0.1935m
<a href="#">BR10</a>	-0.0446m	0.0064m	-0.2029m
<a href="#">BR11</a>	-0.0435m	0.0054m	-0.1852m
<a href="#">BR12</a>	-0.0419m	0.0034m	-0.1562m
<a href="#">BR13</a>	-0.0411m	0.0019m	-0.1357m
<a href="#">BR14</a>	-0.0408m	0.0008m	-0.1225m
<a href="#">BR15</a>	-0.0407m	-0.0003m	-0.1110m
<a href="#">BR16</a>	-0.0409m	-0.0008m	-0.1060m
<a href="#">BR17</a>	-0.0409m	-0.0015m	-0.0995m
<a href="#">BR18</a>	-0.0414m	-0.0020m	-0.0966m
<a href="#">BR19</a>	-0.0423m	-0.0024m	-0.0953m
<a href="#">BR20</a>	-0.0430m	-0.0027m	-0.0957m
<a href="#">BR21</a>	-0.0425m	-0.0030m	-0.0987m
<a href="#">BR22</a>	-0.0424m	-0.0032m	-0.1092m
<a href="#">BR23</a>	-0.0416m	-0.0034m	-0.0994m
<a href="#">BR24</a>	-0.0405m	-0.0040m	-0.0878m
<a href="#">BR25</a>	-0.0396m	-0.0045m	-0.0793m
<a href="#">BR26</a>	-0.0393m	-0.0053m	-0.0728m
<a href="#">BR27</a>	-0.0384m	-0.0055m	-0.0669m
<a href="#">BR29</a>	-0.0359m	-0.0058m	-0.0503m
<a href="#">BR30</a>	-0.0344m	-0.0060m	-0.0404m

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">BR31</a>	-0.0326m	-0.0062m	-0.0272m
<a href="#">BR32</a>	-0.0313m	-0.0065m	-0.0164m
<a href="#">BR33</a>	-0.0305m	-0.0068m	-0.0066m
<a href="#">BR34</a>	-0.0295m	-0.0072m	0.0032m
<a href="#">BR35</a>	-0.0289m	-0.0075m	0.0124m
<a href="#">BR36</a>	-0.0296m	-0.0081m	0.0239m
<a href="#">BR37</a>	-0.0292m	-0.0082m	0.0258m
<a href="#">BR38</a>	-0.0285m	-0.0081m	0.0241m
<a href="#">BR39</a>	-0.0260m	-0.0079m	0.0176m
<a href="#">BR40</a>	-0.0242m	-0.0079m	0.0130m
<a href="#">BR41</a>	-0.0232m	-0.0082m	0.0080m
<a href="#">BR42</a>	-0.0227m	-0.0079m	0.0147m
<a href="#">BR43</a>	-0.0211m	-0.0076m	0.0251m
<a href="#">BR44</a>	-0.0206m	-0.0075m	0.0289m
<a href="#">BR45</a>	-0.0191m	-0.0074m	0.0366m
<a href="#">BR46</a>	-0.0186m	-0.0074m	0.0386m
<a href="#">BR47</a>	-0.0180m	-0.0074m	0.0411m
<a href="#">BR48</a>	-0.0172m	-0.0074m	0.0441m
<a href="#">BR49</a>	-0.0159m	-0.0075m	0.0498m
<a href="#">BR50</a>	-0.0155m	-0.0075m	0.0515m
<a href="#">BR51</a>	-0.0140m	-0.0077m	0.0581m
<a href="#">BR52</a>	-0.0135m	-0.0077m	0.0602m
<a href="#">BR53</a>	-0.0125m	-0.0079m	0.0656m
<a href="#">BR54</a>	-0.0035m	-0.0078m	0.0989m
<a href="#">BR55</a>	-0.0028m	-0.0076m	0.0875m

- Método de Distribución: Dependiente de la distancia

## 7. Puntos Transformados y Residuos Distribuidos en el sistema Nacional

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">17754</a>	4717207.5300m	717528.8300m	1580.5170m
<a href="#">17804</a>	4716844.7500m	732744.4400m	2033.5600m
<a href="#">17865</a>	4720552.6620m	748987.2810m	2005.0000m
<a href="#">17935</a>	4720738.8570m	767773.1310m	2045.9970m
<a href="#">21045</a>	4699634.6800m	717217.5100m	952.6600m
<a href="#">21118</a>	4705656.5900m	735264.8400m	1928.1800m
<a href="#">21125</a>	4701784.0200m	739457.2800m	1781.5970m
<a href="#">21215</a>	4702734.1430m	763058.5050m	1045.7430m
<a href="#">21233</a>	4698322.7770m	767652.8540m	991.3550m
<a href="#">555081</a>	4709893.0080m	736758.3480m	762.0710m
<a href="#">555088</a>	4707397.5270m	740425.4000m	732.2120m
<a href="#">555094</a>	4706996.6640m	744322.1380m	689.0470m
<a href="#">555098</a>	4706221.6270m	746900.7460m	701.6740m
<a href="#">8000</a>	4706166.7840m	748624.8860m	639.5880m
<a href="#">8001</a>	4706372.8690m	748113.9840m	708.5720m
<a href="#">8002</a>	4706215.8910m	746870.2630m	703.4840m
<a href="#">8003</a>	4707105.1410m	745351.5020m	702.7240m
<a href="#">8004</a>	4706435.3890m	743332.8280m	720.3580m
<a href="#">8005</a>	4706606.2770m	741191.5170m	722.5400m
<a href="#">8006B</a>	4707345.8910m	739823.2770m	725.7680m
<a href="#">8007</a>	4708580.1650m	738423.2080m	764.0920m
<a href="#">9997</a>	4707105.0670m	745342.0880m	702.9060m
<a href="#">BR01</a>	4709677.7057m	736842.6042m	761.9063m





Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">BR02</a>	4709477.8363m	737002.9751m	763.1232m
<a href="#">BR03</a>	4709350.6937m	737164.3030m	768.6317m
<a href="#">BR04</a>	4709256.0049m	737363.0496m	772.8913m
<a href="#">BR05</a>	4709137.5661m	737565.0480m	773.2948m
<a href="#">BR06</a>	4709098.7631m	737699.5393m	772.1524m
<a href="#">BR07</a>	4708944.2337m	737899.2985m	768.0597m
<a href="#">BR08</a>	4708814.7086m	738080.6916m	766.4954m
<a href="#">BR09</a>	4708698.6203m	738336.9734m	762.5938m
<a href="#">BR10</a>	4708572.4418m	738420.3188m	762.7749m
<a href="#">BR11</a>	4708516.6316m	738620.2333m	759.0498m
<a href="#">BR12</a>	4708401.4084m	738835.4099m	758.1195m
<a href="#">BR13</a>	4708315.3081m	739014.9443m	759.0910m
<a href="#">BR14</a>	4708194.7384m	739133.0314m	759.0498m
<a href="#">BR15</a>	4708121.9043m	739307.7888m	752.5861m
<a href="#">BR16</a>	4708057.3280m	739395.1112m	750.3132m
<a href="#">BR17</a>	4708053.6893m	739623.9508m	747.7578m
<a href="#">BR18</a>	4707951.9610m	739749.1286m	744.5914m
<a href="#">BR19</a>	4707794.2125m	739879.6892m	748.6919m
<a href="#">BR20</a>	4707646.9724m	739981.2313m	752.2800m
<a href="#">BR21</a>	4707519.4578m	740174.1633m	744.0167m
<a href="#">BR22</a>	4707415.8191m	740406.1228m	733.2080m
<a href="#">BR23</a>	4707371.2330m	740631.7430m	730.9531m
<a href="#">BR24</a>	4707305.5098m	740829.2236m	731.4526m
<a href="#">BR25</a>	4707307.4730m	741025.3001m	732.1287m
<a href="#">BR26</a>	4707143.6299m	741215.8179m	718.7162m
<a href="#">BR27</a>	4707152.1957m	741406.1275m	724.5069m
<a href="#">BR29</a>	4707031.8725m	741828.7328m	705.7515m
<a href="#">BR30</a>	4706993.8666m	742024.1557m	705.9624m
<a href="#">BR31</a>	4707000.8276m	742274.2659m	703.1752m
<a href="#">BR32</a>	4706965.3023m	742476.2549m	701.9213m
<a href="#">BR33</a>	4706911.2983m	742652.4741m	698.5016m
<a href="#">BR34</a>	4706971.9720m	742891.2825m	697.5154m
<a href="#">BR35</a>	4706940.3156m	743126.9350m	696.8646m
<a href="#">BR36</a>	4706759.1706m	743312.9016m	691.5126m
<a href="#">BR37</a>	4706678.0083m	743519.9973m	688.1656m
<a href="#">BR38</a>	4706645.3064m	743615.9299m	686.2359m
<a href="#">BR39</a>	4706748.6318m	743805.9337m	689.0723m
<a href="#">BR40</a>	4706855.3601m	743996.6971m	694.4552m
<a href="#">BR41</a>	4706855.8009m	744274.0255m	682.6055m
<a href="#">BR42</a>	4706729.1624m	744433.9036m	677.6614m
<a href="#">BR43</a>	4706648.4448m	744698.3890m	674.2893m
<a href="#">BR44</a>	4706483.2698m	744803.0989m	674.2066m
<a href="#">BR45</a>	4706530.6101m	745092.3998m	669.4534m
<a href="#">BR46</a>	4706466.0755m	745232.6019m	670.8581m
<a href="#">BR47</a>	4706432.6482m	745418.3328m	667.1961m
<a href="#">BR48</a>	4706360.2264m	745642.1985m	664.6997m
<a href="#">BR49</a>	4706372.8696m	745936.1013m	658.4781m
<a href="#">BR50</a>	4706619.1432m	746077.6920m	665.0089m
<a href="#">BR51</a>	4706595.1531m	746318.2533m	664.2528m
<a href="#">BR52</a>	4706776.3803m	746526.7514m	682.8550m
<a href="#">BR53</a>	4706646.5904m	746645.1087m	676.8434m

Punto	Dirección Norte	Dirección Este	Altitud
<a href="#">BR54</a>	4706280.5874m	748114.3947m	647.3914m
<a href="#">BR55</a>	4706303.9670m	748474.1822m	640.8844m

- Estas coordenadas serán asignadas en caso de seleccionar 'Distribuir Residuos de los Puntos nuevos' en la Tabla de Asignación

2.2.3. Reseña del vértice fijo GPS

CARRETERA N-260. TRAMO: FISCAL-BALUPOR  
HUESCA  
RESEÑA DE REFERENCIA

<p><i>Nombre:</i> REF.9997</p> <p><i>Número:</i> 9997</p> <p><i>Hoja MTN 50:</i> 178</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Buzo 30)</p> <p>X: 745342,088 m</p> <p>Y: 4707105,067 m</p> <p>H: 702,906 m</p>
<p><b>Situación:</b></p> <p>Situado en borde de talud al N de la carretera N-260, a la altura del pk 454,600. Se accede a través de una pista en el pk 454,400 que sube hasta un sembrado, que se bordea por el lado S durante unos 100 m.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 00' 59,9679" O</p> <p>Latitud: 42° 28' 32,0851" N</p> <p>h: 754,890 m</p>
	<p><b>Referencias:</b></p> <p>a= 0,85 m Mata</p> <p>b= 1,10 m Mata</p> <p>c= 1,60 m Piedra</p>
	

### 2.3. LISTADO DE COORDENADAS BASES DE REPLANTEO

#### 2.3.1. Sistema de referencia ED 50 UTM HUSO 30

Punto	X	Y	Z	Nombre
1	736842.604	4709677.706	761.906	BR-1
2	737002.975	4709477.836	762.997	BR-2
3	737164.303	4709350.694	768.565	BR-3
4	737363.050	4709256.005	772.795	BR-4
5	737565.048	4709137.566	773.191	BR-5
6	737699.539	4709098.763	772.081	BR-6
7	737899.299	4708944.234	767.985	BR-7
8	738080.692	4708814.709	766.411	BR-8
9	738336.973	4708698.620	762.574	BR-9
10	738420.319	4708572.442	762.771	BR-10
11	738620.233	4708516.632	759.045	BR-11
12	738835.410	4708401.408	758.066	BR-12
13	739014.944	4708315.308	759.036	BR-13
14	739133.031	4708194.738	758.984	BR-14
15	739307.789	4708121.904	752.513	BR-15
16	739395.111	4708057.328	750.213	BR-16
17	739623.951	4708053.689	747.680	BR-17
18	739749.129	4707951.961	744.591	BR-18
19	739879.689	4707794.212	748.584	BR-19
20	739981.231	4707646.972	752.177	BR-20
21	740174.163	4707519.458	743.961	BR-21
22	740406.123	4707415.819	733.176	BR-22
23	740631.743	4707371.233	730.934	BR-23
24	740829.224	4707305.510	731.425	BR-24
25	741025.300	4707307.473	732.093	BR-25
26	741215.818	4707143.630	718.688	BR-26
27	741406.127	4707152.196	724.472	BR-27
28	741629.668	4707111.528	714.445	BR-28
29	741828.733	4707031.873	705.680	BR-29
30	742024.156	4706993.867	705.928	BR-30
31	742274.266	4707000.828	703.099	BR-31
32	742476.255	4706965.302	701.871	BR-32
33	742652.474	4706911.298	698.419	BR-33
34	742891.283	4706971.972	697.431	BR-34

Punto	X	Y	Z	Nombre
35	743126.935	4706940.316	696.786	BR-35
36	743312.902	4706759.171	691.430	BR-36
37	743519.997	4706678.008	688.097	BR-37
38	743615.930	4706645.306	686.162	BR-38
39	743805.934	4706748.632	689.05	BR-39
40	743996.697	4706855.360	694.445	BR-40
41	744274.025	4706855.801	682.610	BR-41
42	744433.904	4706729.162	677.657	BR-42
43	744698.389	4706648.445	674.250	BR-43
44	744803.099	4706483.270	674.175	BR-44
45	745092.400	4706530.610	669.424	BR-45
46	745232.602	4706466.076	670.814	BR-46
47	745418.333	4706432.648	667.160	BR-47
48	745642.199	4706360.226	664.677	BR-48
49	745936.101	4706372.870	658.467	BR-49
50	746077.692	4706619.143	665.022	BR-50
51	746318.253	4706595.153	664.263	BR-51
52	746526.751	4706776.380	682.874	BR-52
53	746645.109	4706646.590	676.861	BR-53
54	748114.395	4706280.587	647.387	BR-54
55	748474.182	4706303.967	640.902	BR-55

**2.3.2. Sistema de referencia ETRS 89 UTM HUSO 30**

PUNTO	X	Y	Z	NOMBRE
1	736735.359	4709467.591	761.906	BR-1
2	736895.731	4709267.719	762.997	BR-2
3	737057.060	4709140.576	768.565	BR-3
4	737255.810	4709045.886	772.795	BR-4
5	737457.810	4708927.446	773.191	BR-5
6	737592.302	4708888.643	772.081	BR-6
7	737792.065	4708734.112	767.985	BR-7
8	737973.460	4708604.586	766.411	BR-8
9	738229.743	4708488.496	762.574	BR-9
10	738313.090	4708362.317	762.771	BR-10
11	738513.007	4708306.506	759.045	BR-11
12	738728.186	4708191.281	758.066	BR-12
13	738907.722	4708105.180	759.036	BR-13
14	739025.810	4707984.609	758.984	BR-14
15	739200.570	4707911.774	752.513	BR-15
16	739287.893	4707847.197	750.213	BR-16
17	739516.736	4707843.558	747.680	BR-17
18	739641.916	4707741.829	744.591	BR-18
19	739772.477	4707584.078	748.584	BR-19
20	739874.020	4707436.836	752.177	BR-20
21	740066.954	4707309.321	743.961	BR-21
22	740298.917	4707205.680	733.176	BR-22
23	740524.540	4707161.094	730.934	BR-23
24	740722.024	4707095.369	731.425	BR-24
25	740918.103	4707097.331	732.093	BR-25
26	741108.623	4706933.485	718.688	BR-26
27	741298.935	4706942.050	724.472	BR-27
28	741522.479	4706901.380	714.445	BR-28
29	741721.547	4706821.723	705.680	BR-29
30	741916.973	4706783.716	705.928	BR-30
31	742167.087	4706790.676	703.099	BR-31
32	742369.079	4706755.148	701.871	BR-32
33	742545.300	4706701.143	698.419	BR-33
34	742784.113	4706761.816	697.431	BR-34
35	743019.769	4706730.158	696.786	BR-35
36	743205.738	4706549.010	691.430	BR-36
37	743412.835	4706467.846	688.097	BR-37
38	743508.770	4706435.143	686.162	BR-38
PUNTO	X	Y	Z	NOMBRE

39	743698.777	4706538.469	689.05	BR-39
40	743889.543	4706645.197	694.445	BR-40
41	744166.876	4706645.636	682.610	BR-41
42	744326.756	4706518.995	677.657	BR-42
43	744591.245	4706438.276	674.250	BR-43
44	744695.955	4706273.099	674.175	BR-44
45	744985.261	4706320.438	669.424	BR-45
46	745125.465	4706255.903	670.814	BR-46
47	745311.198	4706222.473	667.160	BR-47
48	745535.068	4706150.048	664.677	BR-48
49	745828.975	4706162.689	658.467	BR-49
50	745970.570	4706408.963	665.022	BR-50
51	746211.135	4706384.970	664.263	BR-51
52	746419.638	4706566.197	682.874	BR-52
53	746537.997	4706436.405	676.861	BR-53
54	748007.347	4706070.273	647.389	BR-54
55	748367.143	4706093.646	640.903	BR-55



## 2.4. RESEÑAS DE LAS BASES

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.1  <b>Numero:</b> 1  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 736842,604 m                  Y: 4709677,706 m                  H: 761,907 m</p>
<p><b>Situación:</b>                  Clavo situado en isleta de la Carretera N-260, a la altura del Km 462,2 de la misma, junto a intersección con el Camino Cerrado, al norte de la localidad de Fiscal.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>  <b>GEOGRÁFICAS</b>                  Longitud: 0° 07' 07,9140" O                  Latitud: 42° 30' 04,9099" N                  h: 814,090 m</p>
<p><b>Referencias:</b>                  a= 0,38 m Señal tráfico                  b= 0,69 m Bordillo                  c= 0,57 m Bordillo</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.2  <b>Numero:</b> 2  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 737002,975 m                  Y: 4709477,836 m                  H: 762,998 m</p>
<p><b>Situación:</b>                  Clavo sobre acera en la margen sur de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, aproximadamente a la altura del Km 463,50 de la misma, junto desvío hacia Batán de Lacort.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>  <b>GEOGRÁFICAS</b>                  Longitud: 0° 07' 01,1939" O                  Latitud: 42° 29' 58,2614" N                  h: 815,263 m</p>
<p><b>Referencias:</b>                  a= 2,12 m Tuerca farola                  b= 2,02 m Esq tapa registro                  c= 1,35 m Bordillo</p>	



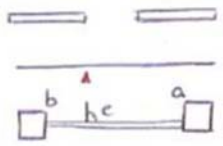


CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.3  <b>Numero:</b> 3  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 737164,303 m                  Y: 4709350,694 m                  H: 768,565 m</p>
<p><b>Situación:</b>                  Clavo sobre acera sur de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, a la altura del Km 463,45 de ésta, junto esquina SO de la casa rural "Leyendas del Pirineo".</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>  <b>GEOGRÁFICAS</b>                  Longitud: 0° 06' 54,3239" O                  Latitud: 42° 29' 53,9666" N                  h: 820,743 m</p>
<p><b>Referencias:</b>                  a= 1,42 m Farola                  b= 0,47 m Esq registro                  c= 0,50 m Esq registro</p>	




CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.4  <b>Numero:</b> 4  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 737363,050 m                  Y: 4709256,005 m                  H: 772,796 m</p>
<p><b>Situación:</b>                  Clavo en esquina de bordillo situado en la margen sur de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, a la altura del Km 463,2 de la misma, al NE del cuartel de la Guardia Civil de Fiscal.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>  <b>GEOGRÁFICAS</b>                  Longitud: 0° 06' 45,7684" O                  Latitud: 42° 29' 50,6813" N                  h: 824,983 m</p>
<p><b>Referencias:</b>                  a= 0,48 m Esq bordillo                  b= 0,93 m Esq bordillo                  c= 1,77 m Esq bordillo</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.5  <b>Numero:</b> 5  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 737565,048 m                  Y: 4709137,566 m                  H: 773,192 m</p>
<p><b>Situación:</b>                  Clavo en asfalto, en margen sur y a la altura del Km 462,990 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 06' 37,1064" O                  Latitud: 42° 29' 46,6232" N                  h: 825,372 m</p>
<p><b>Referencias:</b>                  a= 4,75 m Esq pilar                  b= 3,17 m Esq pilar                  c= 3,17 m Puerta</p>	
	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.6  <b>Numero:</b> 6  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 737699,539 m                  Y: 4709098,763 m                  H: 772,082 m</p>
<p><b>Situación:</b>                  Hito en talud de la margen sur de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, a la altura del Km 462,85 aproximadamente.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 06' 31,2796" O                  Latitud: 42° 29' 45,2182" N                  h: 824,227 m</p>
<p><b>Referencias:</b>                  a= 1,20 m Talud                  b= 1,15 m Mata                  c= 2,30 m Mata</p>	
	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.7</p> <p><b>Numero:</b> 7</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 737899,299 m</p> <p>Y: 4708944,234 m</p> <p>H: 767,986 m</p>
<p><b>Situación:</b></p> <p>Clavo sobre asfalto, en margen sur de la Carretera N-260 de Biescas a Aínsa, con dirección a Aínsa, a la altura del Km 462,550 de la misma.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 06' 22,7700" O</p> <p>Latitud: 42° 29' 39,9937" N</p> <p>h: 820,134 m</p>
<p><b>Referencias:</b></p> <p>a= 4,60 m Árbol</p> <p>b= 2,55 m Línea blanca</p> <p>c= 11,70 m Señal</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.8</p> <p><b>Numero:</b> 8</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 738080,692 m</p> <p>Y: 4708814,709 m</p> <p>H: 766,412 m</p>
<p><b>Situación:</b></p> <p>Clavo situado en salida a camino, en la margen sur de la Carretera N-260 de Biescas a Aínsa, con dirección a Aínsa, a la altura del Km 462,4 de ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 06' 15,0270" O</p> <p>Latitud: 42° 29' 35,5991" N</p> <p>h: 818,578 m</p>
<p><b>Referencias:</b></p> <p>a= 1,53 m Esq línea blanca</p> <p>b= 2,64 m Esq línea blanca</p> <p>c= 1,76 m Esq línea blanca</p>	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO**

<p><b>Nombre:</b> BR.9  <b>Numero:</b> 9  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 738336,973 m                  Y: 4708698,620 m                  H: 762,575 m</p>
<p><b>Situación:</b>                  Clavo situado junto borde de asfalto en la margen sur de la Carretera N-260 de Biescas a Aínsa, con dirección a Aínsa, a la altura del Km 462,05 y 15 m al oeste del cartel de inicio de población de Arresa.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 06' 03,9877" O                  Latitud: 42° 29' 31,5564" N                  h: 814,700 m</p>
<p><b>Referencias:</b>                  a= 0,80 m Cruz línea blanca                  b= 0,50 m Línea blanca                  c= 0,70 m Cruz línea blanca</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO**

<p><b>Nombre:</b> BR.10  <b>Numero:</b> 10  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 738420,319 m                  Y: 4708572,442 m                  H: 762,772 m</p>
<p><b>Situación:</b>                  Clavo sobre tajera de piedra, en la margen sur de la Carretera N-260 de Biescas a Aínsa, con dirección a Aínsa, en el Km 461,9, en la localidad de Arresa.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 06' 00,5301" O                  Latitud: 42° 29' 27,3784" N                  h: 814,890 m</p>
<p><b>Referencias:</b>                  a= 4,14 m Viga bionda                  b= 2,83 m Poste señal                  c= 3,30 m Poste señal</p>	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.11</p> <p><b>Numero:</b> 11</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 738620,233 m</p> <p>Y: 4708516,632 m</p> <p>H: 759,046 m</p>
<p><b>Situación:</b></p> <p>Hito en prado al norte de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, a la altura del Km 461,65, junto a poste de telefonía.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 05' 51,8671" O</p> <p>Latitud: 42° 29' 25,3496" N</p> <p>h: 811,150 m</p>
<p><b>Referencias:</b></p> <p>a= 1,80 m Poste</p> <p>b= 1,35 m Estaca</p> <p>c= 1,55 m Estaca</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.12</p> <p><b>Numero:</b> 12</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 738835,410 m</p> <p>Y: 4708401,408 m</p> <p>H: 758,066 m</p>
<p><b>Situación:</b></p> <p>Clavo situado sobre laja de piedra, en la margen sur de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, a la altura del Km 461,5 de ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 05' 42,6257" O</p> <p>Latitud: 42° 29' 21,3798" N</p> <p>h: 810,193 m</p>
<p><b>Referencias:</b></p> <p>a= 3,08 m Poste</p> <p>b= 0,79 m Esq línea blanca</p> <p>c= 1,15 m Esq línea blanca</p>	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.13  <b>Numero:</b> 13  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 739014,944 m                  Y: 4708315,308 m                  H: 759,036 m</p>
<p><b>Situación:</b>                  A la altura del Km 461,3 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, en la margen sur de la misma y junto a pretil de muro de contención encontramos la señal.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 05' 34,9002" O                  Latitud: 42° 29' 18,3925" N                  h: 811,146 m</p>
<p><b>Referencias:</b>                  a= 3,16 m Esq pretil                  b= 3,14 m Esq pretil                  c= 1,14 m Línea blanca</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.14  <b>Numero:</b> 14  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 739133,031 m                  Y: 4708194,738 m                  H: 758,984 m</p>
<p><b>Situación:</b>                  A la altura del Km 461,075 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, y en la margen sur de ésta encontramos el clavo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 05' 29,9150" O                  Latitud: 42° 29' 14,3573" N                  h: 811,092 m</p>
<p><b>Referencias:</b>                  a= 4,15 m Poste señal                  b= 5 m Poste señal                  c= 3,95 m Esq línea blanca</p>	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<b>Nombre:</b> BR.15 <b>Numero:</b> 15 <b>Hoja MTN 50:</b> 178 <b>Señal:</b> CLAVO ACERO	<b>Sistema Geodésico de Referencia ED 50</b> <b>COORDENADAS ED50</b> UTM (Huso 30) X: 739307,789 m Y: 4708121,904 m H: 752,513 m
<b>Situación:</b> A la altura del Km 460,9 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, encontramos la señal sobre pretil de muro de contención en la margen sur de dicha carretera.	<b>Sistema Geodésico de Referencia WGS84</b> <b>COORDENADAS WGS84</b> GEOGRÁFICAS Longitud: 0° 05' 22,3790" O Latitud: 42° 29' 11,8046" N h: 804,619 m
<b>Referencias:</b> a= 0,34 m Pretil b= 1,43 m Esq pretil c= 1,43 m Esq pretil	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<b>Nombre:</b> BR.16 <b>Numero:</b> 16 <b>Hoja MTN 50:</b> 178 <b>Señal:</b> CLAVO ACERO	<b>Sistema Geodésico de Referencia ED 50</b> <b>COORDENADAS ED50</b> UTM (Huso 30) X: 739395,111 m Y: 4708057,328 m H: 750,214 m
<b>Situación:</b> A la altura del Km 460,75 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, y en la margen sur de ésta encontramos el clavo.	<b>Sistema Geodésico de Referencia WGS84</b> <b>COORDENADAS WGS84</b> GEOGRÁFICAS Longitud: 0° 05' 18,6558" O Latitud: 42° 29' 09,6165" N h: 802,341 m
<b>Referencias:</b> a= 1,60 m Cruz línea blanca b= 1,40 m Línea blanca c= 1,66 m Cruz línea blanca	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.17  <b>Numero:</b> 17  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 739623,951 m                  Y: 4708053,689 m                  H: 747,681 m</p>
<p><b>Situación:</b>                  A la altura del Km 460,55 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, y en la margen sur de ésta encontramos el clavo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 05' 08,6501" O                  Latitud: 42° 29' 09,2440" N                  h: 799,784 m</p>
<p><b>Referencias:</b>                  a= 1,90 m Cruz                  b= 2,07 m Cruz                  c= 2,96 m Cruz</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.18  <b>Numero:</b> 18  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 739749,129 m                  Y: 4707951,961 m                  H: 744,591 m</p>
<p><b>Situación:</b>                  A la altura del Km 460,3 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, tomamos la salida que hay hacia planta hormigonera. A los 30 m encontramos la señal sobre lechada de hormigón.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 05' 03,3270" O                  Latitud: 42° 29' 05,8106" N                  h: 796,615 m</p>
<p><b>Referencias:</b>                  a= 0,65 m Cruz                  b= 6,30 m Cruz                  c= 3,55 m Esq hormigón</p>	



CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.19</p> <p><b>Numero:</b> 19</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 739679,689 m</p> <p>Y: 4707794,212 m</p> <p>H: 748,585 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 459,985 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, y en la margen sur de ésta y sobre pretil encontramos el clavo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 04' 57,8530" O</p> <p>Latitud: 42° 29' 00,5573" N</p> <p>h: 800,714 m</p>
<p><b>Referencias:</b></p> <p>a= 0,38 m Pretil</p> <p>b= 1,19 m Esq pretil</p> <p>c= 0,60 m Esq pretil</p>	<p>Diagrama que muestra un pretil con una línea horizontal superior y una vertical inferior. Se indican tres puntos: 'a' en la línea superior, 'b' en la línea inferior a la derecha, y 'c' en la línea superior a la izquierda.</p>
<p>Imagen de satélite que muestra la ubicación del punto BR.19 en un terreno montañoso con vegetación verde.</p>	<p>Foto de campo que muestra el punto BR.19, un clavo de acero, instalado en el pretil de la carretera.</p>

CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.20</p> <p><b>Numero:</b> 20</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 739981,231 m</p> <p>Y: 4707646,972 m</p> <p>H: 752,177 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 459,8 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, y en la margen sur de ésta y sobre pretil encontramos el clavo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 04' 53,6328" O</p> <p>Latitud: 42° 28' 55,6766" N</p> <p>h: 804,302 m</p>
<p><b>Referencias:</b></p> <p>a= 0,98 m Esq pretil</p> <p>b= 0,35 m Pretil</p> <p>c= 0,66 m Esq pretil</p>	<p>Diagrama que muestra un pretil con una línea horizontal superior y una vertical inferior. Se indican tres puntos: 'a' en la línea superior a la derecha, 'b' en la línea inferior, y 'c' en la línea superior a la izquierda.</p>
<p>Imagen de satélite que muestra la ubicación del punto BR.20 en un terreno montañoso con vegetación verde.</p>	<p>Foto de campo que muestra el punto BR.20, un clavo de acero, instalado en el pretil de la carretera.</p>



**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.21  <b>Numero:</b> 21  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 740174,163 m                  Y: 4707519,458 m                  H: 743,962 m</p>
<p><b>Situación:</b>                  A la altura del Km 459,6 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, y en la margen sur de ésta y junto pretil encontramos el clavo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 04' 45,3853" O                  Latitud: 42° 28' 51,3324" N                  h: 796,043 m</p>
<p><b>Referencias:</b>                  a= 0,22 m Esq pretil                  b= 0,54m Esq pretil                  c= 0,53m Esq pretil</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

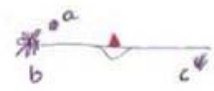


<p><b>Nombre:</b> BR.22  <b>Numero:</b> 22  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> FERRALLA</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 740406,123 m                  Y: 4707415,819 m                  H: 733,176 m</p>
<p><b>Situación:</b>                  A la altura del Km 459,4 de la Carretera N-260 de Biescas a Ainsa, con dirección a Ainsa, encontramos la señal junto al desvío hacia Lingüerre de Ara, en la margen sur de dicha carretera.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 04' 35,3949" O                  Latitud: 42° 28' 47,7177" N                  h: 785,247 m</p>
<p><b>Referencias:</b>                  a= 3,30 m Esq pie señal                  b= 4,20 m Esq pie señal                  c= 0,31 m Lechada hormigón</p>	



CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

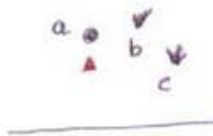


RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.23</p> <p><b>Numero:</b> 23</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 740631,743 m</p> <p>Y: 4707371,233 m</p> <p>H: 730,934 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 459,15 de la Carretera N-260 de Biescas a Ainsa, encontramos la señal en cabeza de talud en campo al norte de la carretera, junto poste de telefonía.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p>GEOGRÁFICAS</p> <p>Longitud: 0° 04' 25,5930" O</p> <p>Latitud: 42° 28' 46,0218" N</p> <p>hc: 782,986 m</p>
<p><b>Referencias:</b></p> <p>a= 6,70 m Poste</p> <p>b= 7,60 m Arbusto</p> <p>c= 7,80 m Mata</p>	
	

CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.24</p> <p><b>Numero:</b> 24</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 740829,224 m</p> <p>Y: 4707305,510 m</p> <p>H: 731,425 m</p>
<p><b>Situación:</b></p> <p>Hito en zona verde al norte de la Carretera N-260 de Biescas a Ainsa, a la altura del Km 458,97, al sur de la población Javierre de Jara.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p>GEOGRÁFICAS</p> <p>Longitud: 0° 04' 17,0540" O</p> <p>Latitud: 42° 28' 43,6728" N</p> <p>hc: 783,477 m</p>
<p><b>Referencias:</b></p> <p>a= 0,65 m Poste</p> <p>b= 1,20 m Mata</p> <p>c= 1,45 m Mata</p>	
	






CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.25  <b>Numero:</b> 25  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 741025,300 m                  Y: 4707307,473 m                  H: 732,093 m</p>
<p><b>Situación:</b>                  A la altura del Km 459,2 de la Carretera N-260 de Biescas a Aínsa, sale al norte un acceso hacia Javierre. Recorriéndolo 80 m encontramos la señal en su margen este.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 04' 08,4743" O                  Latitud: 42° 28' 43,5169" N                  hc: 784,149 m</p>
<p><b>Referencias:</b>                  a= 0,26 m Esq roca                  b= 0,46 m Esq roca                  c= 0,42 m Camino</p>	

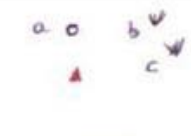


CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.26  <b>Numero:</b> 26  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 741215,818 m                  Y: 4707143,630 m                  H: 718,689 m</p>
<p><b>Situación:</b>                  A la altura del Km 458,6 de la Carretera N-260 de Biescas a Aínsa, está la señal en extremo de un ribazo al sur de la carretera y unos 20 m hacia el sur desde ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 04' 00,3887" O                  Latitud: 42° 28' 37,9983" N                  hc: 770,731 m</p>
<p><b>Referencias:</b>                  a= 0,46 m Esq roca                  b= 0,44 m Esq roca                  c= 1,10 m Arbusto</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
HUESCA  
RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.27</p> <p><b>Numero:</b> 27</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 741406,127 m</p> <p>Y: 4707152,196 m</p> <p>H: 724,472 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 458,3 de la Carretera N-260 de Biescas a Aínsa, sale un camino hacia el norte, en la población de Santa Olaria. Recorriéndolo 20 m encontramos la señal.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 03' 52,0515" O</p> <p>Latitud: 42° 28' 38,0623" N</p> <p>h: 776,520 m</p>
<p><b>Referencias:</b></p> <p>a= 1,77 m Esq sumidero</p> <p>b= 1,21 m Esq registro</p> <p>c= 1,43 m Esq tuerca de farola</p>	
	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
HUESCA  
RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.28</p> <p><b>Numero:</b> 28</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 741629,668 m</p> <p>Y: 4707111,528 m</p> <p>H: 714,445 m</p>
<p><b>Situación:</b></p> <p>Hito situado al sur de poste de telefonía a la altura del pk 458,10 de la carretera N-260.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 03' 42,3353" O</p> <p>Latitud: 42° 28' 36,4946" N</p> <p>h: 766,528 m</p>
<p><b>Referencias:</b></p> <p>a= 0,60 m Poste</p> <p>b= 3,10 m Mata</p> <p>c= 4,50 m Mata</p>	
	



CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.29  <b>Numero:</b> 29  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 741828,733 m                  Y: 4707031,873 m                  H: 705,681 m</p>
<p><b>Situación:</b>                  A la altura del Km 457,9 de la Carretera N-260 de Biescas a Ainsa, está la señal en cabeza de talud al sur de la carretera y unos 20 m hacia el sur desde ésta junto a un poste.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 03' 33,7491" O                  Latitud: 42° 28' 33,6919" N                  h: 757,755 m</p>
<p><b>Referencias:</b>                  a= 2,57 m Esq roca                  b= 0,52 m Cabeza talud                  c= 2,30 m Arbusto</p>	

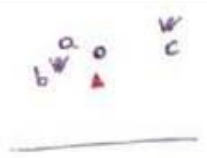


CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.30  <b>Numero:</b> 30  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 742024,156 m                  Y: 4706993,867 m                  H: 705,929 m</p>
<p><b>Situación:</b>                  A la altura del Km 457,7 de la Carretera N-260 de Biescas a Ainsa, está la señal en cabeza de talud al sur de la carretera y unos 30 m hacia el sur desde ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 03' 25,2591" O                  Latitud: 42° 28' 32,2416" N                  h: 757,959 m</p>
<p><b>Referencias:</b>                  a= 2,55 m Arbolito                  b= 5,10 m Arbolito                  c= 5,30 m Arbusto</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA




RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.31</p> <p><b>Numero:</b> 31</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 742274,266 m</p> <p>Y: 4707000,828 m</p> <p>H: 703,100 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 457,47 de la Carretera N-260 de Biescas a Aínsa, está la señal en campo al norte de la carretera y unos 20 m desde ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 03' 14,3086" O</p> <p>Latitud: 42° 28' 32,1857" N</p> <p>hc: 755,159 m</p>
<p><b>Referencias:</b></p> <p>a= 1,12 m Poste</p> <p>b= 1,30 m Mata</p> <p>c= 5,10 m Mata</p>	
	

CARRETERA N-260. TRAMO FISCAL - BALUPOR

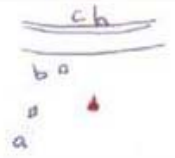


HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.32</p> <p><b>Numero:</b> 32</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 742476,255 m</p> <p>Y: 4706965,302 m</p> <p>H: 701,871 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 457,25 de la Carretera N-260 de Biescas a Aínsa, está la señal en campo al norte de la carretera y unos 20 m desde ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p><b>GEOGRÁFICAS</b></p> <p>Longitud: 0° 03' 05,5282" O</p> <p>Latitud: 42° 28' 30,8078" N</p> <p>hc: 753,904 m</p>
<p><b>Referencias:</b></p> <p>a= 2,15 m Poste</p> <p>b= 2,34 m Esq piedra</p> <p>c= 2,20 m Esq piedra</p>	
	



CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.33  <b>Numero:</b> 33  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 742652,474 m                  Y: 4706911,298 m                  H: 698,419 m</p>
<p><b>Situación:</b>                  A la altura del Km 457,05 de la Carretera N-260 de Biescas a Ainsa, está la señal en campo al sur de la carretera y unos 10 m desde ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 02' 57,9027" O                  Latitud: 42° 28' 28,8606" N                  h: 750,477 m</p>
<p><b>Referencias:</b>                  a= 1,08 m Pie señal                  b= 1,60 m Pie señal                  c= 3,03 m Línea blanca</p>	
	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.34  <b>Numero:</b> 34  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 742891,283 m                  Y: 4706971,972 m                  H: 697,431 m</p>
<p><b>Situación:</b>                  A la altura del Km 456,85 de la Carretera N-260 de Biescas a Ainsa, está la señal en campo al norte de la carretera y unos 15 m desde ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 02' 47,3651" O                  Latitud: 42° 28' 30,5558" N                  h: 749,485 m</p>
<p><b>Referencias:</b>                  a= 1,47m Poste                  b= 4,15 m Piedra                  c= 4,30 m Mata</p>	
	

CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.35</p> <p><b>Numero:</b> 35</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 743126,935 m</p> <p>Y: 4706940,316 m</p> <p>H: 696,787 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 456,65 de la Carretera N-260 de Biescas a Ainsa, está la señal en campo al norte de la carretera y unos 25 m desde ésta.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p>GEOGRÁFICAS</p> <p>Longitud: 0° 02' 37,1061" O</p> <p>Latitud: 42° 28' 29,2646" N</p> <p>hc: 748,834 m</p>
<p><b>Referencias:</b></p> <p>a= 1,35 m Estaca</p> <p>b= 1,47 m Estaca</p> <p>c= 1,62 m Estaca</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.36</p> <p><b>Numero:</b> 36</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 743312,902 m</p> <p>Y: 4706759,171 m</p> <p>H: 691,430 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 456,4 de la Carretera N-260 de Biescas a Ainsa, en la margen sur de la misma y junto a poste encontramos la señal.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p>GEOGRÁFICAS</p> <p>Longitud: 0° 02' 29,2490" O</p> <p>Latitud: 42° 28' 23,1895" N</p> <p>hc: 743,467 m</p>
<p><b>Referencias:</b></p> <p>a= 2,36 m Poste</p> <p>b= 1,30 m Línea blanca</p> <p>c= 1,10 m Borde asfalto</p>	



CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.37  <b>Numero:</b> 37  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 743519,997 m                  Y: 4706678,008 m                  H: 688,097 m</p>
<p><b>Situación:</b>                  A la altura del Km 456,1 de la Carretera N-260 de Biescas a Aínsa, en la margen sur de la misma encontramos la señal.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 02' 20,3154" O                  Latitud: 42° 28' 20,3274" N                  hc: 740,123 m</p>
<p><b>Referencias:</b>                  a= 4,80 m Poste                  b= 1,25 m Coto                  c= 1,50 m Línea blanca</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.38  <b>Numero:</b> 38  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 743615,930 m                  Y: 4706645,306 m                  H: 686,163 m</p>
<p><b>Situación:</b>                  A la altura del Km 456 de la Carretera N-260 de Biescas a Aínsa, en la margen sur de la misma encontramos la señal.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 02' 16,1697" O                  Latitud: 42° 28' 19,1600" N                  hc: 738,188 m</p>
<p><b>Referencias:</b>                  a= 1,04 m Pk                  b= 2,03 m Línea blanca                  c= 3,05 m Poste</p>	



CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.39</p> <p><b>Numero:</b> 39</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 743805,934 m</p> <p>Y: 4706748,632 m</p> <p>H: 689,050 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 455,8 de la Carretera N-260 de Biescas a Ainsa, en campo al norte de la misma y unos 20 m encontramos la señal, junto extremo de vegetación.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p>GEOGRÁFICAS</p> <p>Longitud: 0° 02' 07,7018" O</p> <p>Latitud: 42° 28' 22,2902" N</p> <p>h: 741,046 m</p>
<p><b>Referencias:</b></p> <p>a= 1,30 m Esq vegetación</p> <p>b= 0,90 m Esq vegetación</p> <p>c= 0,75 m Vegetación</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.40</p> <p><b>Numero:</b> 40</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 743996,697 m</p> <p>Y: 4706855,360 m</p> <p>H: 694,446 m</p>
<p><b>Situación:</b></p> <p>A la altura del Km 455,6 de la Carretera N-260 de Biescas a Ainsa, sale al norte un camino hacia la población de Lacort. Recorriéndolo unos 100 m y al oeste del camino encontramos la señal junto a edificio en ruinas.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p>GEOGRÁFICAS</p> <p>Longitud: 0° 01' 59,1951" O</p> <p>Latitud: 42° 28' 25,5297" N</p> <p>h: 746,440 m</p>
<p><b>Referencias:</b></p> <p>a= 1,24 m Esq roca</p> <p>b= 2,10 m Esq roca</p> <p>c= 2 m Esq roca</p>	






CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.41  <b>Numero:</b> 41  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 744274,025 m                  Y: 4706855,801 m                  H: 682,611 m</p>
<p><b>Situación:</b>                  A la altura del Km 455,4 de la Carretera N-260 de Biescas a Ainsa, sale al sur, y junto a una casa, un camino que conduce a una pasarela. Este camino pasa bajo línea de tendido telefónico. La señal se encuentra junto a un poste, al oeste del camino y alejado de él 40 m.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 01' 47,0649" O                  Latitud: 42° 28' 25,2294" N                  hc: 734,602 m</p>
<p><b>Referencias:</b>                  a= 1,37 m Poste                  b= 6,30 m Mala                  c= 8,15 m Mata</p>	

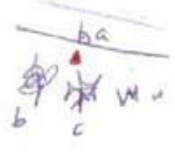


CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.42  <b>Numero:</b> 42  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 744433,904 m                  Y: 4706729,162 m                  H: 677,658 m</p>
<p><b>Situación:</b>                  Hito en borde de camino, en la intersección del camino de Ligierre de Arra con el que da acceso a la pasarela de Lacori.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 01' 40,2666" O                  Latitud: 42° 28' 20,9476" N                  hc: 729,651 m</p>
<p><b>Referencias:</b>                  a= 5,50 m Árbol                  b= 14,40 m Esq casa                  c= 20,80 m Esq casa</p>	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
**RESEÑA DE BASE DE REPLANTEO**

<p><b>Nombre:</b> BR.43 <b>Numero:</b> 43 <b>Hoja MTN 50:</b> 178 <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b> <b>COORDENADAS ED50</b> <u>UTM (Huso 30)</u> X: 744698,389 m Y: 4706648,445 m H: 674,250 m</p>
<p><b>Situación:</b> Hito en lindero de campos de cultivo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b> <b>COORDENADAS WGS84</b> <u>GEOGRÁFICAS</u> Longitud: 0° 01' 28,8231" O Latitud: 42° 28' 18,0336" N hc: 726,282 m</p>
<p><b>Referencias:</b> a= 0,60 m Esq roca b= 0,67 m Esq roca c= 0,31 m Roca</p>	
	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
**RESEÑA DE BASE DE REPLANTEO**

<p><b>Nombre:</b> BR.44 <b>Numero:</b> 44 <b>Hoja MTN 50:</b> 178 <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b> <b>COORDENADAS ED50</b> <u>UTM (Huso 30)</u> X: 744803,099 m Y: 4706483,270 m H: 674,175 m</p>
<p><b>Situación:</b> Hito en borde de campo</p>	<p><b>Sistema Geodésico de Referencia WGS84</b> <b>COORDENADAS WGS84</b> <u>GEOGRÁFICAS</u> Longitud: 0° 01' 24,4975" O Latitud: 42° 28' 12,5664" N hc: 726,187 m</p>
<p><b>Referencias:</b> a= 0,55 m Borde campo b= 1,10 m Arbusto c= 2,50 m Arbusto</p>	
	



CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.45  <b>Numero:</b> 45  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 745092,400 m                  Y: 4706530,610 m                  H: 669,424 m</p>
<p><b>Situación:</b>                  Hito situado en el extremo de un ribazo, 20 m al este de una caseta de piedra.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 01' 11,7724" O                  Latitud: 42° 28' 13,7700" N                  h: 721,440 m</p>
<p><b>Referencias:</b>                  a= 1,30 m Estaca                  b= 1,42 m Estaca                  c= 0,98 m Estaca</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

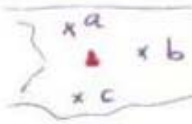


<p><b>Nombre:</b> BR.46  <b>Numero:</b> 46  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 745232,602 m                  Y: 4706466,076 m                  H: 670,814 m</p>
<p><b>Situación:</b>                  Hito en lindero de campos de cultivo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 01' 05,7399" O                  Latitud: 42° 28' 11,5209" N                  h: 722,836 m</p>
<p><b>Referencias:</b>                  a= 1,10 m Estaca                  b= 1,08 m Estaca                  c= 0,80 m Estaca</p>	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR**

**HUESCA**

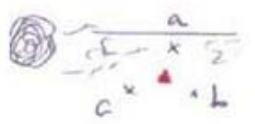
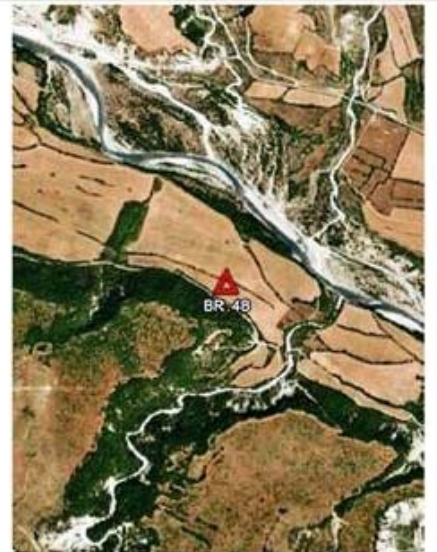

**RESEÑA DE BASE DE REPLANTEO**

<p><b>Nombre:</b> BR.47 <b>Numero:</b> 47 <b>Hoja MTN 50:</b> 178 <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b> <b>COORDENADAS ED50</b> UTM (Huso 30) X: 745418,333 m Y: 4706432,648 m H: 667,160 m</p>
<p><b>Situación:</b> Hito en lindero de campos de cultivo utilizado como paso de tractores.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b> <b>COORDENADAS WGS84</b> GEOGRÁFICAS Longitud: 0° 00' 57,6689" O Latitud: 42° 28' 10,2266" N hc: 719,177 m</p>
<p><b>Referencias:</b> a= 1,45 m Estaca b= 0,80 m Estaca c= 1,10 m Estaca</p>	
	

**CARRETERA N-260. TRAMO FISCAL - BALUPOR**

**HUESCA**

**RESEÑA DE BASE DE REPLANTEO**

<p><b>Nombre:</b> BR.48 <b>Numero:</b> 48 <b>Hoja MTN 50:</b> 178 <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b> <b>COORDENADAS ED50</b> UTM (Huso 30) X: 745642,199 m Y: 4706360,226 m H: 664,677 m</p>
<p><b>Situación:</b> Hito en lindero de campos de cultivo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b> <b>COORDENADAS WGS84</b> GEOGRÁFICAS Longitud: 0° 00' 47,9899" O Latitud: 42° 28' 07,6266" N hc: 716,677 m</p>
<p><b>Referencias:</b> a= 0,67 m Estaca b= 0,83 m Estaca c= 1,10 m Estaca</p>	
	



CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.49  <b>Numero:</b> 49  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 745936,101 m                  Y: 4706372,870 m                  H: 658,467 m</p>
<p><b>Situación:</b>                  Hito en borde de campo de cultivo en cabeza de talud sobre el río Ara.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 00' 35,1173" O                  Latitud: 42° 28' 07,7005" N                  h: 710,459 m</p>
<p><b>Referencias:</b>                  a= 1,10 m Estaca                  b= 1,12 m Estaca                  c= 0,98 m Estaca</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR  
 HUESCA  
 RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.50  <b>Numero:</b> 50  <b>Hoja MTN 50:</b> 178  <b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 746077,692 m                  Y: 4706619,143 m                  H: 665,023 m</p>
<p><b>Situación:</b>                  Hito en borde de camino.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 00' 28,5449" O                  Latitud: 42° 28' 15,5124" N                  h: 716,997 m</p>
<p><b>Referencias:</b>                  a= 1,20 m Estaca                  b= 1,35 m Estaca                  c= 0,85 m Estaca</p>	



CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.51</p> <p><b>Numero:</b> 51</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 746318,253 m</p> <p>Y: 4706595,153 m</p> <p>H: 664,264 m</p>
<p><b>Situación:</b></p> <p>Hito en extremo de ribazo.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p>GEOGRÁFICAS</p> <p>Longitud: 0° 00' 18,0613" O</p> <p>Latitud: 42° 28' 14,4605" N</p> <p>h: 716,239 m</p>
<p><b>Referencias:</b></p> <p>a= 1,15 m Estaca</p> <p>b= 1,21 m Estaca</p> <p>c= 1,05 m Estaca</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.52</p> <p><b>Numero:</b> 52</p> <p><b>Hoja MTN 50:</b> 178</p> <p><b>Señal:</b> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b></p> <p><b>COORDENADAS ED50</b></p> <p>UTM (Huso 30)</p> <p>X: 746526,751 m</p> <p>Y: 4706776,380 m</p> <p>H: 682,874 m</p>
<p><b>Situación:</b></p> <p>Hito en borde sur de la carretera N-260, a la altura del pk. 452,3</p>	<p><b>Sistema Geodésico de Referencia WGS84</b></p> <p><b>COORDENADAS WGS84</b></p> <p>GEOGRÁFICAS</p> <p>Longitud: 0° 00' 08,6626" O</p> <p>Latitud: 42° 28' 20,0895" N</p> <p>h: 734,848 m</p>
<p><b>Referencias:</b></p> <p>a= 4,06 m Viento</p> <p>b= 4,80 m Poste</p> <p>c= 2,70 m Línea blanca</p>	



**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><i>Nombre:</i> BR.53  <i>Numero:</i> 53  <i>Hoja MTN 50:</i> 178  <i>Señal:</i> HITO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 746645,109 m                  Y: 4706646,590 m                  H: 676,861 m</p>
<p><i>Situación:</i>                  Hito en margen sur de la carretera N-260, a la altura del pk: 452,100.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 00' 03,6871" O                  Latitud: 42° 28' 15,7516" N                  h: 728,831 m</p>
<p><i>Referencias:</i>                  a= 2,67 m Línea blanca                  b= 2,55 m Arbusto                  c= 1,20 m Arbusto</p>	




**CARRETERA N-260. TRAMO FISCAL - BALUPOR**  
**HUESCA**  
 RESEÑA DE BASE DE REPLANTEO

<p><i>Nombre:</i> BR.54  <i>Numero:</i> 54  <i>Hoja MTN 50:</i> 178  <i>Señal:</i> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b>  <b>COORDENADAS ED50</b>                  UTM (Huso 30)                  X: 748114,395 m                  Y: 4706280,587 m                  H: 647,387 m</p>
<p><i>Situación:</i>                  Clavo a la altura del pk 450,020 de la carretera N-260.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b>  <b>COORDENADAS WGS84</b>                  GEOGRÁFICAS                  Longitud: 0° 00' 59,9998" E                  Latitud: 42° 28' 02,2130" N                  h: 699,370 m</p>
<p><i>Referencias:</i>                  a= 2,98 m Esq viga blanca                  b= 2,55 m Bionda                  c= 2,20 m Esq viga blanca</p>	

CARRETERA N-260. TRAMO FISCAL - BALUPOR

HUESCA

RESEÑA DE BASE DE REPLANTEO

<p><b>Nombre:</b> BR.55 <b>Numero:</b> 55 <b>Hoja MTN 50:</b> 178 <b>Señal:</b> CLAVO ACERO</p>	<p><b>Sistema Geodésico de Referencia ED 50</b> <b>COORDENADAS ED50</b> UTM (Huso 30) X: 748474,182 m Y: 4706303,967 m H: 640,902 m</p>
<p><b>Situación:</b> Clavo sobre tajea a la altura del pk: 449,850 de la carretera N-260.</p>	<p><b>Sistema Geodésico de Referencia WGS84</b> <b>COORDENADAS WGS84</b> GEOGRÁFICAS Longitud: 0° 01' 15,7699" E Latitud: 42° 28' 02,5551" N hc: 692,883 m</p>
<p><b>Referencias:</b> <math>a = 3,86</math> m Pie bienda <math>b = 2,88</math> m Esq interior tajea <math>c = 2,83</math> m Esq interior tajea</p>	
	



### 3. REPLANTEO DEL EJE

#### 3.1. LISTADO DE COORDENADAS ED 50 HUSO 30

Punto	X	Y	Z	Nombre
1	748331.478	4706339.392	642.736	P.K.0+000
2	748311.500	4706338.464	642.927	P.K.0+020
3	748291.527	4706337.429	643.113	P.K.0+040
4	748271.548	4706336.500	643.263	P.K.0+060
5	748251.560	4706335.822	643.423	P.K.0+080
6	748231.563	4706335.541	643.830	P.K.0+100
7	748211.565	4706335.800	0.000	P.K.0+120
8	748191.587	4706336.711	0.000	P.K.0+140
9	748171.650	4706338.287	0.000	P.K.0+160
10	748151.777	4706340.526	0.000	P.K.0+180
11	748131.989	4706343.427	0.000	P.K.0+200
12	748112.309	4706346.985	0.000	P.K.0+220
13	748092.759	4706351.197	0.000	P.K.0+240
14	748073.359	4706356.059	0.000	P.K.0+260
15	748054.133	4706361.564	0.000	P.K.0+280
16	748035.101	4706367.707	0.000	P.K.0+300
17	748016.276	4706374.460	0.000	P.K.0+320
18	747997.634	4706381.703	0.000	P.K.0+340
19	747979.133	4706389.299	0.000	P.K.0+360
20	747960.722	4706397.111	0.000	P.K.0+380
21	747942.344	4706405.002	0.000	P.K.0+400
22	747923.943	4706412.838	0.000	P.K.0+420
23	747905.511	4706420.601	0.000	P.K.0+440
24	747887.049	4706428.290	0.000	P.K.0+460
25	747868.555	4706435.905	0.000	P.K.0+480
26	747850.031	4706443.446	0.000	P.K.0+500
27	747831.477	4706450.913	0.000	P.K.0+520
28	747812.894	4706458.306	0.000	P.K.0+540
29	747794.281	4706465.624	0.000	P.K.0+560
30	747775.639	4706472.868	0.000	P.K.0+580
31	747756.968	4706480.037	0.000	P.K.0+600
32	747738.268	4706487.131	0.000	P.K.0+620
33	747719.541	4706494.151	0.000	P.K.0+640

Punto	X	Y	Z	Nombre
34	747700.785	4706501.095	0.000	P.K.0+660
35	747682.002	4706507.965	0.000	P.K.0+680
36	747663.191	4706514.759	0.000	P.K.0+700
37	747644.354	4706521.478	0.000	P.K.0+720
38	747625.489	4706528.122	0.000	P.K.0+740
39	747606.599	4706534.690	0.000	P.K.0+760
40	747587.682	4706541.182	0.000	P.K.0+780
41	747568.739	4706547.599	0.000	P.K.0+800
42	747549.771	4706553.940	0.000	P.K.0+820
43	747530.777	4706560.205	0.000	P.K.0+840
44	747511.759	4706566.394	0.000	P.K.0+860
45	747492.716	4706572.506	0.000	P.K.0+880
46	747473.649	4706578.543	0.000	P.K.0+900
47	747454.558	4706584.503	0.000	P.K.0+920
48	747435.443	4706590.387	0.000	P.K.0+940
49	747416.305	4706596.195	0.000	P.K.0+960
50	747397.143	4706601.925	0.000	P.K.0+980
51	747377.959	4706607.579	0.000	P.K.1+000
52	747358.752	4706613.157	0.000	P.K.1+020
53	747339.524	4706618.657	0.000	P.K.1+040
54	747320.273	4706624.081	0.000	P.K.1+060
55	747301.001	4706629.427	0.000	P.K.1+080
56	747281.708	4706634.696	0.000	P.K.1+100
57	747262.393	4706639.888	0.000	P.K.1+120
58	747243.058	4706645.003	0.000	P.K.1+140
59	747223.703	4706650.041	0.000	P.K.1+160
60	747204.328	4706655.000	0.000	P.K.1+180
61	747184.933	4706659.883	0.000	P.K.1+200
62	747165.519	4706664.688	0.000	P.K.1+220
63	747146.086	4706669.415	0.000	P.K.1+240
64	747126.633	4706674.064	0.000	P.K.1+260
65	747107.163	4706678.636	0.000	P.K.1+280
66	747087.674	4706683.129	0.000	P.K.1+300
67	747068.168	4706687.545	0.000	P.K.1+320
68	747048.644	4706691.882	0.000	P.K.1+340
69	747029.103	4706696.142	0.000	P.K.1+360
70	747009.545	4706700.323	0.000	P.K.1+380
71	746989.970	4706704.426	0.000	P.K.1+400

Punto	X	Y	Z	Nombre
72	746970.379	4706708.450	0.000	P.K.1+420
73	746950.772	4706712.396	0.000	P.K.1+440
74	746931.150	4706716.264	0.000	P.K.1+460
75	746911.512	4706720.053	0.000	P.K.1+480
76	746891.857	4706723.752	0.000	P.K.1+500
77	746872.177	4706727.313	0.000	P.K.1+520
78	746852.462	4706730.679	0.000	P.K.1+540
79	746832.706	4706733.794	0.000	P.K.1+560
80	746812.905	4706736.600	0.000	P.K.1+580
81	746793.054	4706739.042	0.000	P.K.1+600
82	746773.157	4706741.063	0.000	P.K.1+620
83	746753.220	4706742.642	0.000	P.K.1+640
84	746733.253	4706743.778	0.000	P.K.1+660
85	746713.265	4706744.470	0.000	P.K.1+680
86	746693.267	4706744.718	0.000	P.K.1+700
87	746673.269	4706744.521	0.000	P.K.1+720
88	746653.279	4706743.880	0.000	P.K.1+740
89	746633.309	4706742.794	0.000	P.K.1+760
90	746613.368	4706741.266	0.000	P.K.1+780
91	746593.466	4706739.294	685.799	P.K.1+800
92	746573.612	4706736.881	680.548	P.K.1+820
93	746553.817	4706734.027	677.859	P.K.1+840
94	746534.091	4706730.735	674.938	P.K.1+860
95	746514.442	4706727.004	671.937	P.K.1+880
96	746494.881	4706722.838	670.799	P.K.1+900
97	746475.418	4706718.238	669.460	P.K.1+920
98	746456.061	4706713.207	669.089	P.K.1+940
99	746436.821	4706707.748	668.169	P.K.1+960
100	746417.708	4706701.861	667.648	P.K.1+980
101	746398.729	4706695.552	667.895	P.K.2+000
102	746379.896	4706688.823	668.238	P.K.2+020
103	746361.217	4706681.676	668.252	P.K.2+040
104	746342.701	4706674.117	666.980	P.K.2+060
105	746324.358	4706666.148	666.824	P.K.2+080
106	746306.196	4706657.773	666.705	P.K.2+100
107	746288.225	4706648.997	666.636	P.K.2+120
108	746270.453	4706639.823	666.220	P.K.2+140
109	746252.890	4706630.257	666.079	P.K.2+160
110	746235.535	4706620.317	666.300	P.K.2+180

Punto	X	Y	Z	Nombre
111	746218.371	4706610.051	665.560	P.K.2+200
112	746201.374	4706599.512	665.415	P.K.2+220
113	746184.516	4706588.750	665.069	P.K.2+240
114	746167.771	4706577.814	664.842	P.K.2+260
115	746151.107	4706566.754	664.415	P.K.2+280
116	746134.495	4706555.617	663.467	P.K.2+300
117	746117.903	4706544.450	661.871	P.K.2+320
118	746101.293	4706533.310	655.119	P.K.2+340
119	746084.619	4706522.265	655.329	P.K.2+360
120	746067.838	4706511.385	655.298	P.K.2+380
121	746050.905	4706500.742	655.314	P.K.2+400
122	746033.781	4706490.409	655.366	P.K.2+420
123	746016.431	4706480.462	655.252	P.K.2+440
124	745998.824	4706470.976	654.509	P.K.2+460
125	745980.954	4706461.996	654.323	P.K.2+480
126	745962.835	4706453.530	654.642	P.K.2+500
127	745944.482	4706445.586	653.842	P.K.2+520
128	745925.909	4706438.169	653.311	P.K.2+540
129	745907.131	4706431.285	653.282	P.K.2+560
130	745888.165	4706424.941	653.201	P.K.2+580
131	745869.025	4706419.141	657.745	P.K.2+600
132	745849.727	4706413.890	658.056	P.K.2+620
133	745830.287	4706409.193	658.319	P.K.2+640
134	745810.721	4706405.053	658.780	P.K.2+660
135	745791.045	4706401.473	659.022	P.K.2+680
136	745771.274	4706398.458	659.336	P.K.2+700
137	745751.426	4706396.008	661.206	P.K.2+720
138	745731.515	4706394.126	661.796	P.K.2+740
139	745711.559	4706392.814	662.205	P.K.2+760
140	745691.573	4706392.072	662.410	P.K.2+780
141	745671.575	4706391.869	662.696	P.K.2+800
142	745651.577	4706392.126	662.818	P.K.2+820
143	745631.587	4706392.761	663.220	P.K.2+840
144	745611.609	4706393.689	663.536	P.K.2+860
145	745591.641	4706394.827	663.975	P.K.2+880
146	745571.681	4706396.093	664.341	P.K.2+900
147	745551.724	4706397.404	664.735	P.K.2+920
148	745531.767	4706398.717	665.136	P.K.2+940
149	745511.811	4706400.030	666.056	P.K.2+960

Punto	X	Y	Z	Nombre
150	745491.854	4706401.343	666.979	P.K.2+980
151	745471.897	4706402.655	667.612	P.K.3+000
152	745451.940	4706403.968	668.190	P.K.3+020
153	745431.983	4706405.281	668.827	P.K.3+040
154	745412.026	4706406.594	669.239	P.K.3+060
155	745392.069	4706407.907	669.532	P.K.3+080
156	745372.113	4706409.220	669.872	P.K.3+100
157	745352.156	4706410.533	670.267	P.K.3+120
158	745332.199	4706411.846	670.622	P.K.3+140
159	745312.242	4706413.159	670.571	P.K.3+160
160	745292.285	4706414.472	671.262	P.K.3+180
161	745272.328	4706415.785	672.581	P.K.3+200
162	745252.371	4706417.098	674.176	P.K.3+220
163	745232.415	4706418.411	672.414	P.K.3+240
164	745212.458	4706419.724	672.573	P.K.3+260
165	745192.501	4706421.037	672.219	P.K.3+280
166	745172.544	4706422.350	671.822	P.K.3+300
167	745152.588	4706423.670	671.202	P.K.3+320
168	745132.636	4706425.060	670.948	P.K.3+340
169	745112.696	4706426.608	671.311	P.K.3+360
170	745092.777	4706428.404	671.055	P.K.3+380
171	745072.891	4706430.534	670.602	P.K.3+400
172	745053.055	4706433.086	670.307	P.K.3+420
173	745033.291	4706436.147	670.215	P.K.3+440
174	745013.623	4706439.768	670.372	P.K.3+460
175	744994.065	4706443.949	670.833	P.K.3+480
176	744974.635	4706448.687	671.215	P.K.3+500
177	744955.348	4706453.978	671.526	P.K.3+520
178	744936.221	4706459.818	671.793	P.K.3+540
179	744917.268	4706466.202	671.676	P.K.3+560
180	744898.505	4706473.124	671.854	P.K.3+580
181	744879.947	4706480.580	672.000	P.K.3+600
182	744861.610	4706488.564	672.132	P.K.3+620
183	744843.509	4706497.067	672.426	P.K.3+640
184	744825.658	4706506.085	672.506	P.K.3+660
185	744808.072	4706515.608	672.392	P.K.3+680
186	744790.765	4706525.630	672.420	P.K.3+700
187	744773.751	4706536.143	672.691	P.K.3+720

Punto	X	Y	Z	Nombre
188	744757.045	4706547.137	672.883	P.K.3+740
189	744740.659	4706558.604	673.071	P.K.3+760
190	744724.608	4706570.534	673.465	P.K.3+780
191	744708.905	4706582.918	673.653	P.K.3+800
192	744693.552	4706595.735	673.625	P.K.3+820
193	744678.513	4706608.919	673.821	P.K.3+840
194	744663.738	4706622.398	673.882	P.K.3+860
195	744649.171	4706636.102	674.020	P.K.3+880
196	744634.753	4706649.963	674.052	P.K.3+900
197	744620.424	4706663.916	674.249	P.K.3+920
198	744606.121	4706677.895	674.442	P.K.3+940
199	744591.739	4706691.793	674.675	P.K.3+960
200	744577.142	4706705.465	674.701	P.K.3+980
201	744562.201	4706718.759	675.606	P.K.4+000
202	744546.800	4706731.517	675.692	P.K.4+020
203	744530.904	4706743.651	675.876	P.K.4+040
204	744514.535	4706755.141	676.053	P.K.4+060
205	744497.719	4706765.966	676.218	P.K.4+080
206	744480.485	4706776.110	676.403	P.K.4+100
207	744462.858	4706785.557	674.804	P.K.4+120
208	744444.867	4706794.292	670.772	P.K.4+140
209	744426.542	4706802.300	670.621	P.K.4+160
210	744407.911	4706809.569	670.591	P.K.4+180
211	744389.005	4706816.087	672.136	P.K.4+200
212	744369.852	4706821.843	673.484	P.K.4+220
213	744350.485	4706826.830	673.321	P.K.4+240
214	744330.934	4706831.038	673.559	P.K.4+260
215	744311.231	4706834.460	677.462	P.K.4+280
216	744291.406	4706837.092	678.744	P.K.4+300
217	744271.492	4706838.929	679.503	P.K.4+320
218	744251.520	4706839.968	682.126	P.K.4+340
219	744231.523	4706840.208	682.548	P.K.4+360
220	744211.532	4706839.648	682.799	P.K.4+380
221	744191.580	4706838.289	683.356	P.K.4+400
222	744171.698	4706836.133	684.168	P.K.4+420
223	744151.918	4706833.184	684.992	P.K.4+440
224	744132.271	4706829.446	686.097	P.K.4+460
225	744112.790	4706824.925	686.718	P.K.4+480



Punto	X	Y	Z	Nombre
226	744093.506	4706819.629	687.919	P.K.4+500
227	744074.439	4706813.594	687.830	P.K.4+520
228	744055.564	4706806.982	688.178	P.K.4+540
229	744036.828	4706799.985	688.359	P.K.4+560
230	744018.171	4706792.780	688.693	P.K.4+580
231	743999.573	4706785.426	688.888	P.K.4+600
232	743981.033	4706777.922	689.017	P.K.4+620
233	743962.555	4706770.271	689.330	P.K.4+640
234	743944.138	4706762.472	689.040	P.K.4+660
235	743925.784	4706754.526	688.967	P.K.4+680
236	743907.495	4706746.434	687.855	P.K.4+700
237	743889.270	4706738.196	686.916	P.K.4+720
238	743871.110	4706729.818	686.519	P.K.4+740
239	743852.937	4706721.465	686.287	P.K.4+760
240	743834.660	4706713.346	686.184	P.K.4+780
241	743816.202	4706705.646	686.252	P.K.4+800
242	743797.503	4706698.555	685.855	P.K.4+820
243	743778.539	4706692.206	686.059	P.K.4+840
244	743759.336	4706686.621	686.701	P.K.4+860
245	743739.925	4706681.808	686.513	P.K.4+880
246	743720.337	4706677.775	686.245	P.K.4+900
247	743700.604	4706674.528	686.191	P.K.4+920
248	743680.756	4706672.073	686.614	P.K.4+940
249	743660.827	4706670.414	686.679	P.K.4+960
250	743640.846	4706669.554	689.574	P.K.4+980
251	743620.848	4706669.492	694.341	P.K.5+000
252	743600.863	4706670.231	696.229	P.K.5+020
253	743580.923	4706671.768	692.772	P.K.5+040
254	743561.061	4706674.102	689.075	P.K.5+060
255	743541.308	4706677.227	687.749	P.K.5+080
256	743521.696	4706681.140	688.142	P.K.5+100
257	743502.256	4706685.835	688.366	P.K.5+120
258	743483.020	4706691.303	688.310	P.K.5+140
259	743464.017	4706697.536	688.649	P.K.5+160
260	743445.279	4706704.523	689.082	P.K.5+180
261	743426.835	4706712.255	689.437	P.K.5+200
262	743408.715	4706720.718	689.767	P.K.5+220
263	743390.949	4706729.898	690.060	P.K.5+240
264	743373.563	4706739.782	690.583	P.K.5+260

Punto	X	Y	Z	Nombre
265	743356.587	4706750.353	691.388	P.K.5+280
266	743340.046	4706761.594	692.540	P.K.5+300
267	743323.932	4706773.439	692.878	P.K.5+320
268	743308.150	4706785.724	692.701	P.K.5+340
269	743292.588	4706798.286	693.499	P.K.5+360
270	743277.123	4706810.968	693.305	P.K.5+380
271	743261.639	4706823.627	692.944	P.K.5+400
272	743246.048	4706836.154	692.525	P.K.5+420
273	743230.264	4706848.436	692.224	P.K.5+440
274	743214.209	4706860.361	692.111	P.K.5+460
275	743197.810	4706871.809	691.470	P.K.5+480
276	743181.008	4706882.655	687.723	P.K.5+500
277	743163.787	4706892.823	686.326	P.K.5+520
278	743146.174	4706902.294	691.120	P.K.5+540
279	743128.196	4706911.054	693.704	P.K.5+560
280	743109.881	4706919.087	694.561	P.K.5+580
281	743091.261	4706926.382	694.061	P.K.5+600
282	743072.363	4706932.926	694.882	P.K.5+620
283	743053.219	4706938.710	695.909	P.K.5+640
284	743033.859	4706943.723	695.251	P.K.5+660
285	743014.314	4706947.958	695.942	P.K.5+680
286	742994.615	4706951.408	696.460	P.K.5+700
287	742974.794	4706954.067	696.646	P.K.5+720
288	742954.882	4706955.932	696.737	P.K.5+740
289	742934.912	4706956.999	696.768	P.K.5+760
290	742914.915	4706957.266	696.365	P.K.5+780
291	742894.923	4706956.740	696.320	P.K.5+800
292	742874.962	4706955.502	695.960	P.K.5+820
293	742855.045	4706953.693	695.702	P.K.5+840
294	742835.171	4706951.450	695.822	P.K.5+860
295	742815.333	4706948.914	695.761	P.K.5+880
296	742795.515	4706946.222	695.794	P.K.5+900
297	742775.700	4706943.506	695.894	P.K.5+920
298	742755.876	4706940.864	695.850	P.K.5+940
299	742736.030	4706938.381	696.033	P.K.5+960
300	742716.156	4706936.144	696.573	P.K.5+980
301	742696.247	4706934.237	697.452	P.K.6+000
302	742676.304	4706932.742	698.549	P.K.6+020
303	742656.332	4706931.691	699.684	P.K.6+040

Punto	X	Y	Z	Nombre
304	742636.341	4706931.084	700.498	P.K.6+060
305	742616.343	4706930.921	700.756	P.K.6+080
306	742596.345	4706931.202	700.837	P.K.6+100
307	742576.359	4706931.928	700.424	P.K.6+120
308	742556.393	4706933.098	700.154	P.K.6+140
309	742536.459	4706934.711	700.249	P.K.6+160
310	742516.565	4706936.765	700.541	P.K.6+180
311	742496.717	4706939.224	700.744	P.K.6+200
312	742476.911	4706942.004	701.014	P.K.6+220
313	742457.140	4706945.019	701.294	P.K.6+240
314	742437.392	4706948.185	701.643	P.K.6+260
315	742417.655	4706951.415	701.955	P.K.6+280
316	742397.918	4706954.652	702.085	P.K.6+300
317	742378.182	4706957.889	702.218	P.K.6+320
318	742358.446	4706961.126	702.419	P.K.6+340
319	742338.709	4706964.363	702.561	P.K.6+360
320	742318.973	4706967.600	702.694	P.K.6+380
321	742299.237	4706970.837	702.840	P.K.6+400
322	742279.500	4706974.074	703.002	P.K.6+420
323	742259.764	4706977.311	703.297	P.K.6+440
324	742240.028	4706980.548	703.450	P.K.6+460
325	742220.291	4706983.784	703.772	P.K.6+480
326	742200.555	4706987.021	704.129	P.K.6+500
327	742180.819	4706990.258	704.499	P.K.6+520
328	742161.083	4706993.495	704.794	P.K.6+540
329	742141.346	4706996.732	705.117	P.K.6+560
330	742121.610	4706999.969	705.462	P.K.6+580
331	742101.874	4707003.206	705.760	P.K.6+600
332	742082.137	4707006.443	706.084	P.K.6+620
333	742062.401	4707009.680	706.380	P.K.6+640
334	742042.665	4707012.917	706.717	P.K.6+660
335	742022.928	4707016.154	707.049	P.K.6+680
336	742003.192	4707019.391	707.315	P.K.6+700
337	741983.456	4707022.627	707.432	P.K.6+720
338	741963.719	4707025.864	707.619	P.K.6+740
339	741943.983	4707029.101	707.784	P.K.6+760
340	741924.247	4707032.338	708.024	P.K.6+780
341	741904.510	4707035.575	708.266	P.K.6+800

Punto	X	Y	Z	Nombre
342	741884.774	4707038.812	708.465	P.K.6+820
343	741865.038	4707042.049	708.646	P.K.6+840
344	741845.301	4707045.286	708.816	P.K.6+860
345	741825.565	4707048.523	709.047	P.K.6+880
346	741805.829	4707051.760	709.256	P.K.6+900
347	741786.092	4707054.997	709.484	P.K.6+920
348	741766.356	4707058.234	709.792	P.K.6+940
349	741746.620	4707061.471	710.020	P.K.6+960
350	741726.883	4707064.707	710.232	P.K.6+980
351	741707.147	4707067.944	710.452	P.K.7+000
352	741687.411	4707071.181	710.749	P.K.7+020
353	741667.674	4707074.418	711.221	P.K.7+040
354	741647.938	4707077.655	711.801	P.K.7+060
355	741628.202	4707080.892	712.519	P.K.7+080
356	741608.466	4707084.129	713.239	P.K.7+100
357	741588.729	4707087.366	714.016	P.K.7+120
358	741568.993	4707090.603	714.729	P.K.7+140
359	741549.257	4707093.840	715.568	P.K.7+160
360	741529.520	4707097.077	716.245	P.K.7+180
361	741509.784	4707100.314	717.031	P.K.7+200
362	741490.048	4707103.551	717.834	P.K.7+220
363	741470.325	4707106.872	718.515	P.K.7+240
364	741450.630	4707110.351	719.296	P.K.7+260
365	741430.964	4707113.988	720.161	P.K.7+280
366	741411.327	4707117.782	720.905	P.K.7+300
367	741391.721	4707121.733	721.239	P.K.7+320
368	741372.148	4707125.840	721.110	P.K.7+340
369	741352.607	4707130.104	721.068	P.K.7+360
370	741333.102	4707134.524	721.017	P.K.7+380
371	741313.633	4707139.100	720.773	P.K.7+400
372	741294.201	4707143.832	720.554	P.K.7+420
373	741274.807	4707148.719	720.464	P.K.7+440
374	741255.453	4707153.761	720.631	P.K.7+460
375	741236.140	4707158.958	720.820	P.K.7+480
376	741216.869	4707164.309	720.995	P.K.7+500
377	741197.642	4707169.814	721.174	P.K.7+520
378	741178.459	4707175.472	721.356	P.K.7+540
379	741159.322	4707181.284	721.649	P.K.7+560

Punto	X	Y	Z	Nombre
380	741140.232	4707187.249	721.928	P.K.7+580
381	741121.186	4707193.351	722.275	P.K.7+600
382	741102.147	4707199.477	722.709	P.K.7+620
383	741083.109	4707205.603	723.379	P.K.7+640
384	741064.070	4707211.730	724.096	P.K.7+660
385	741045.031	4707217.856	724.784	P.K.7+680
386	741025.993	4707223.982	725.546	P.K.7+700
387	741006.954	4707230.108	726.184	P.K.7+720
388	740987.915	4707236.234	726.915	P.K.7+740
389	740968.877	4707242.360	727.659	P.K.7+760
390	740949.838	4707248.486	728.276	P.K.7+780
391	740930.799	4707254.612	728.572	P.K.7+800
392	740911.761	4707260.738	728.743	P.K.7+820
393	740892.722	4707266.864	728.886	P.K.7+840
394	740873.683	4707272.990	729.062	P.K.7+860
395	740854.645	4707279.117	729.105	P.K.7+880
396	740835.606	4707285.243	729.172	P.K.7+900
397	740816.567	4707291.369	729.269	P.K.7+920
398	740797.529	4707297.495	729.316	P.K.7+940
399	740778.490	4707303.621	729.333	P.K.7+960
400	740759.451	4707309.747	729.421	P.K.7+980
401	740740.413	4707315.873	729.360	P.K.8+000
402	740721.374	4707321.999	729.346	P.K.8+020
403	740702.335	4707328.125	729.419	P.K.8+040
404	740683.297	4707334.251	729.467	P.K.8+060
405	740664.258	4707340.377	729.435	P.K.8+080
406	740645.219	4707346.504	729.503	P.K.8+100
407	740626.181	4707352.630	729.513	P.K.8+120
408	740607.142	4707358.756	729.561	P.K.8+140
409	740588.103	4707364.882	729.620	P.K.8+160
410	740569.065	4707371.008	729.652	P.K.8+180
411	740550.026	4707377.134	729.702	P.K.8+200
412	740530.987	4707383.260	729.782	P.K.8+220
413	740511.949	4707389.386	729.941	P.K.8+240
414	740492.921	4707395.512	730.154	P.K.8+260
415	740473.936	4707401.637	730.617	P.K.8+280
416	740454.998	4707408.267	731.346	P.K.8+300
417	740436.107	4707414.834	732.621	P.K.8+320
418	740417.264	4707421.538	734.229	P.K.8+340

Punto	X	Y	Z	Nombre
419	740398.470	4707428.379	733.808	P.K.8+360
420	740379.727	4707435.356	734.080	P.K.8+380
421	740361.035	4707442.470	735.046	P.K.8+400
422	740342.395	4707449.720	735.909	P.K.8+420
423	740323.808	4707457.104	736.760	P.K.8+440
424	740305.276	4707464.624	737.588	P.K.8+460
425	740286.799	4707472.278	738.382	P.K.8+480
426	740268.378	4707480.067	739.259	P.K.8+500
427	740250.014	4707487.989	740.215	P.K.8+520
428	740231.708	4707496.045	741.003	P.K.8+540
429	740213.461	4707504.233	741.938	P.K.8+560
430	740195.274	4707512.554	742.885	P.K.8+580
431	740177.148	4707521.008	743.871	P.K.8+600
432	740159.085	4707529.592	744.579	P.K.8+620
433	740141.088	4707538.317	745.466	P.K.8+640
434	740123.216	4707547.294	747.003	P.K.8+660
435	740105.568	4707556.703	743.653	P.K.8+680
436	740088.256	4707566.714	747.988	P.K.8+700
437	740071.355	4707577.406	748.758	P.K.8+720
438	740054.896	4707588.765	749.353	P.K.8+740
439	740038.903	4707600.773	749.950	P.K.8+760
440	740023.404	4707613.411	750.527	P.K.8+780
441	740008.423	4707626.659	751.097	P.K.8+800
442	739993.983	4707640.495	751.503	P.K.8+820
443	739980.108	4707654.898	751.528	P.K.8+840
444	739966.813	4707669.837	747.432	P.K.8+860
445	739954.017	4707685.208	746.413	P.K.8+880
446	739941.575	4707700.866	744.920	P.K.8+900
447	739929.328	4707716.678	745.517	P.K.8+920
448	739917.122	4707732.521	744.501	P.K.8+940
449	739904.852	4707748.315	739.992	P.K.8+960
450	739892.437	4707763.995	740.301	P.K.8+980
451	739879.801	4707779.497	743.554	P.K.9+000
452	739866.866	4707794.751	743.544	P.K.9+020
453	739853.572	4707809.692	743.309	P.K.9+040
454	739839.908	4707824.296	743.483	P.K.9+060
455	739825.883	4707838.554	742.843	P.K.9+080
456	739811.507	4707852.457	741.819	P.K.9+100
457	739796.787	4707865.996	738.517	P.K.9+120

Punto	X	Y	Z	Nombre
458	739781.733	4707879.163	737.544	P.K.9+140
459	739766.356	4707891.950	736.604	P.K.9+160
460	739750.663	4707904.348	735.660	P.K.9+180
461	739734.665	4707916.350	735.223	P.K.9+200
462	739718.372	4707927.948	735.323	P.K.9+220
463	739701.794	4707939.136	735.835	P.K.9+240
464	739684.942	4707949.905	736.408	P.K.9+260
465	739667.826	4707960.250	737.463	P.K.9+280
466	739650.457	4707970.164	736.388	P.K.9+300
467	739632.845	4707979.641	734.751	P.K.9+320
468	739615.002	4707988.674	733.863	P.K.9+340
469	739596.939	4707997.259	732.916	P.K.9+360
470	739578.666	4708005.389	733.358	P.K.9+380
471	739560.199	4708013.067	738.132	P.K.9+400
472	739541.576	4708020.357	739.218	P.K.9+420
473	739522.838	4708027.350	739.217	P.K.9+440
474	739504.026	4708034.140	745.839	P.K.9+460
475	739485.176	4708040.824	747.202	P.K.9+480
476	739466.320	4708047.492	747.738	P.K.9+500
477	739447.484	4708054.215	750.461	P.K.9+520
478	739428.690	4708061.054	752.217	P.K.9+540
479	739409.961	4708068.069	756.839	P.K.9+560
480	739391.322	4708075.322	755.773	P.K.9+580
481	739372.802	4708082.871	754.456	P.K.9+600
482	739354.430	4708090.775	750.956	P.K.9+620
483	739336.235	4708099.077	751.436	P.K.9+640
484	739318.229	4708107.781	751.495	P.K.9+660
485	739300.421	4708116.883	746.573	P.K.9+680
486	739282.819	4708126.379	745.332	P.K.9+700
487	739265.433	4708136.263	747.681	P.K.9+720
488	739248.271	4708146.532	752.026	P.K.9+740
489	739231.341	4708157.179	755.166	P.K.9+760
490	739214.652	4708168.200	756.011	P.K.9+780
491	739198.207	4708179.581	760.133	P.K.9+800
492	739181.982	4708191.276	763.107	P.K.9+820
493	739165.946	4708203.227	765.728	P.K.9+840
494	739150.061	4708215.379	765.960	P.K.9+860
495	739134.291	4708227.679	763.695	P.K.9+880

Punto	X	Y	Z	Nombre
496	739118.596	4708240.076	765.417	P.K.9+900
497	739102.937	4708252.517	762.251	P.K.9+920
498	739087.266	4708264.943	758.860	P.K.9+940
499	739071.523	4708277.279	758.754	P.K.9+960
500	739055.648	4708289.443	759.474	P.K.9+980
501	739039.580	4708301.352	758.916	P.K.10+000
502	739023.265	4708312.919	759.082	P.K.10+020
503	739006.670	4708324.080	759.372	P.K.10+040
504	738989.801	4708334.824	759.666	P.K.10+060
505	738972.669	4708345.142	759.855	P.K.10+080
506	738955.284	4708355.029	759.936	P.K.10+100
507	738937.658	4708364.478	759.831	P.K.10+120
508	738919.800	4708373.484	759.708	P.K.10+140
509	738901.724	4708382.041	758.897	P.K.10+160
510	738883.439	4708390.143	758.873	P.K.10+180
511	738864.966	4708397.805	758.641	P.K.10+200
512	738846.346	4708405.108	759.366	P.K.10+220
513	738827.625	4708412.142	758.278	P.K.10+240
514	738808.838	4708419.003	757.793	P.K.10+260
515	738790.024	4708425.787	757.527	P.K.10+280
516	738771.206	4708432.562	757.229	P.K.10+300
517	738752.389	4708439.337	756.886	P.K.10+320
518	738733.571	4708446.112	756.592	P.K.10+340
519	738714.754	4708452.887	756.272	P.K.10+360
520	738695.936	4708459.662	755.889	P.K.10+380
521	738677.119	4708466.437	755.522	P.K.10+400
522	738658.301	4708473.212	755.379	P.K.10+420
523	738639.484	4708479.987	755.470	P.K.10+440
524	738620.666	4708486.762	756.135	P.K.10+460
525	738601.849	4708493.537	755.777	P.K.10+480
526	738583.031	4708500.312	751.561	P.K.10+500
527	738564.214	4708507.087	758.535	P.K.10+520
528	738545.401	4708513.875	759.794	P.K.10+540
529	738526.604	4708520.707	760.557	P.K.10+560
530	738507.834	4708527.613	760.542	P.K.10+580
531	738489.103	4708534.624	760.526	P.K.10+600
532	738470.424	4708541.772	760.869	P.K.10+620
533	738451.810	4708549.087	761.036	P.K.10+640



Punto	X	Y	Z	Nombre
534	738433.274	4708556.599	760.781	P.K.10+660
535	738414.833	4708564.338	761.279	P.K.10+680
536	738396.501	4708572.334	759.888	P.K.10+700
537	738378.296	4708580.615	757.615	P.K.10+720
538	738360.231	4708589.197	757.057	P.K.10+740
539	738342.312	4708598.079	756.280	P.K.10+760
540	738324.543	4708607.259	755.409	P.K.10+780
541	738306.930	4708616.733	754.437	P.K.10+800
542	738289.477	4708626.500	753.538	P.K.10+820
543	738272.189	4708636.556	752.608	P.K.10+840
544	738255.071	4708646.898	751.906	P.K.10+860
545	738238.128	4708657.525	751.265	P.K.10+880
546	738221.365	4708668.432	751.079	P.K.10+900
547	738204.785	4708679.618	751.083	P.K.10+920
548	738188.394	4708691.078	751.336	P.K.10+940
549	738172.197	4708702.809	751.698	P.K.10+960
550	738156.197	4708714.809	752.268	P.K.10+980
551	738140.400	4708727.074	757.189	P.K.11+000
552	738124.806	4708739.597	757.762	P.K.11+020
553	738109.402	4708752.353	758.849	P.K.11+040
554	738094.170	4708765.314	759.727	P.K.11+060
555	738079.092	4708778.453	760.407	P.K.11+080
556	738064.146	4708791.744	761.021	P.K.11+100
557	738049.313	4708805.159	761.641	P.K.11+120
558	738034.570	4708818.673	762.751	P.K.11+140
559	738019.896	4708832.263	763.283	P.K.11+160
560	738005.268	4708845.902	767.343	P.K.11+180
561	737990.664	4708859.566	767.927	P.K.11+200
562	737976.061	4708873.232	767.767	P.K.11+220
563	737961.442	4708886.881	768.245	P.K.11+240
564	737946.788	4708900.492	768.486	P.K.11+260
565	737932.084	4708914.048	768.338	P.K.11+280
566	737917.311	4708927.530	768.430	P.K.11+300
567	737902.453	4708940.918	768.213	P.K.11+320
568	737887.493	4708954.193	767.568	P.K.11+340
569	737872.417	4708967.334	765.581	P.K.11+360
570	737857.208	4708980.322	765.775	P.K.11+380
571	737841.852	4708993.136	765.910	P.K.11+400
572	737826.344	4709005.765	766.796	P.K.11+420

Punto	X	Y	Z	Nombre
573	737810.687	4709018.209	768.251	P.K.11+440
574	737794.882	4709030.464	768.513	P.K.11+460
575	737778.932	4709042.530	768.763	P.K.11+480
576	737762.839	4709054.405	769.000	P.K.11+500
577	737746.605	4709066.087	769.395	P.K.11+520
578	737730.233	4709077.574	769.615	P.K.11+540
579	737713.725	4709088.865	770.081	P.K.11+560
580	737697.084	4709099.958	772.322	P.K.11+580
581	737680.311	4709110.851	773.033	P.K.11+600
582	737663.409	4709121.544	773.382	P.K.11+620
583	737646.381	4709132.033	773.750	P.K.11+640
584	737629.229	4709142.319	775.766	P.K.11+660
585	737611.955	4709152.399	776.961	P.K.11+680
586	737594.562	4709162.273	777.842	P.K.11+700
587	737577.052	4709171.938	779.043	P.K.11+720
588	737559.429	4709181.393	780.425	P.K.11+740
589	737541.693	4709190.637	781.547	P.K.11+760
590	737523.850	4709199.670	781.732	P.K.11+780
591	737505.909	4709208.508	768.234	P.K.11+800
592	737487.883	4709217.173	773.639	P.K.11+820
593	737469.785	4709225.686	778.437	P.K.11+840
594	737451.628	4709234.071	778.561	P.K.11+860
595	737433.422	4709242.350	777.983	P.K.11+880
596	737415.179	4709250.546	777.751	P.K.11+900
597	737396.908	4709258.683	777.058	P.K.11+920
598	737378.622	4709266.783	775.853	P.K.11+940
599	737360.331	4709274.872	776.915	P.K.11+960
600	737342.079	4709283.049	774.791	P.K.11+980
601	737323.952	4709291.498	774.045	P.K.12+000
602	737306.045	4709300.404	773.769	P.K.12+020
603	737288.465	4709309.938	774.164	P.K.12+040
604	737271.279	4709320.165	776.675	P.K.12+060
605	737254.516	4709331.072	777.430	P.K.12+080
606	737238.201	4709342.637	777.644	P.K.12+100
607	737222.300	4709354.766	778.201	P.K.12+120
608	737206.705	4709367.287	779.832	P.K.12+140
609	737191.292	4709380.033	782.458	P.K.12+160
610	737175.930	4709392.839	782.580	P.K.12+180
611	737160.473	4709405.531	783.585	P.K.12+200

Punto	X	Y	Z	Nombre
612	737144.772	4709417.919	783.866	P.K.12+220
613	737128.689	4709429.805	785.286	P.K.12+240
614	737112.121	4709441.005	784.454	P.K.12+260
615	737095.075	4709451.463	785.544	P.K.12+280
616	737077.640	4709461.261	784.958	P.K.12+300
617	737059.952	4709470.594	782.447	P.K.12+320
618	737042.132	4709479.673	780.677	P.K.12+340
619	737024.301	4709488.732	777.183	P.K.12+360
620	737006.659	4709498.152	775.701	P.K.12+380
621	736989.467	4709508.366	766.316	P.K.12+400
622	736973.005	4709519.716	761.790	P.K.12+420
623	736957.411	4709532.231	761.172	P.K.12+440
624	736942.767	4709545.847	760.431	P.K.12+460
625	736929.151	4709560.491	759.929	P.K.12+480
626	736916.635	4709576.085	759.757	P.K.12+500
627	736905.286	4709592.547	759.968	P.K.12+520
628	736895.163	4709609.791	760.344	P.K.12+540
629	736886.288	4709627.710	760.485	P.K.12+560
630	736878.390	4709646.083	760.475	P.K.12+580
631	736871.023	4709664.677	761.140	P.K.12+600
632	736868.144	4709672.079	761.453	P.K.12+607.942

**3.2.LISTADO DE COORDENADAS ETRS 98 HUSO 30**

PUNTO	X	Y	Z	NOMBRE
1	748224,492	4706129,178	642,737	P.K.0+000
2	748204,513	4706128,250	642,928	P.K.0+020
3	748184,540	4706127,215	643,114	P.K.0+040
4	748164,560	4706126,286	643,264	P.K.0+060
5	748144,572	4706125,608	643,424	P.K.0+080
6	748124,574	4706125,327	643,831	P.K.0+100
7	748104,575	4706125,583	0,000	P.K.0+120
8	748084,597	4706126,494	0,000	P.K.0+140
9	748064,660	4706128,070	0,000	P.K.0+160
10	748044,786	4706130,309	0,000	P.K.0+180
11	748024,998	4706133,211	0,000	P.K.0+200
12	748005,317	4706136,769	0,000	P.K.0+220
13	747985,767	4706140,981	0,000	P.K.0+240
14	747966,366	4706145,843	0,000	P.K.0+260
15	747947,140	4706151,348	0,000	P.K.0+280
16	747928,107	4706157,491	0,000	P.K.0+300
17	747909,282	4706164,245	0,000	P.K.0+320
18	747890,640	4706171,488	0,000	P.K.0+340
19	747872,138	4706179,084	0,000	P.K.0+360
20	747853,727	4706186,896	0,000	P.K.0+380
21	747835,348	4706194,787	0,000	P.K.0+400
22	747816,947	4706202,624	0,000	P.K.0+420
23	747798,515	4706210,387	0,000	P.K.0+440
24	747780,052	4706218,076	0,000	P.K.0+460
25	747761,558	4706225,691	0,000	P.K.0+480
26	747743,033	4706233,233	0,000	P.K.0+500
27	747724,479	4706240,700	0,000	P.K.0+520
28	747705,895	4706248,093	0,000	P.K.0+540
29	747687,282	4706255,411	0,000	P.K.0+560
30	747668,640	4706262,655	0,000	P.K.0+580
31	747649,968	4706269,825	0,000	P.K.0+600
32	747631,268	4706276,919	0,000	P.K.0+620
33	747612,540	4706283,939	0,000	P.K.0+640
34	747593,784	4706290,883	0,000	P.K.0+660
35	747575,001	4706297,753	0,000	P.K.0+680
36	747556,189	4706304,548	0,000	P.K.0+700
37	747537,352	4706311,267	0,000	P.K.0+720
38	747518,486	4706317,911	0,000	P.K.0+740
39	747499,596	4706324,479	0,000	P.K.0+760
40	747480,678	4706330,971	0,000	P.K.0+780

PUNTO	X	Y	Z	NOMBRE
41	747461,735	4706337,389	0,000	P.K.0+800
42	747442,767	4706343,730	0,000	P.K.0+820
43	747423,772	4706349,995	0,000	P.K.0+840
44	747404,754	4706356,184	0,000	P.K.0+860
45	747385,710	4706362,296	0,000	P.K.0+880
46	747366,643	4706368,333	0,000	P.K.0+900
47	747347,551	4706374,294	0,000	P.K.0+920
48	747328,436	4706380,178	0,000	P.K.0+940
49	747309,298	4706385,986	0,000	P.K.0+960
50	747290,135	4706391,716	0,000	P.K.0+980
51	747270,951	4706397,370	0,000	P.K.1+000
52	747251,743	4706402,948	0,000	P.K.1+020
53	747232,515	4706408,449	0,000	P.K.1+040
54	747213,263	4706413,873	0,000	P.K.1+060
55	747193,991	4706419,219	0,000	P.K.1+080
56	747174,698	4706424,488	0,000	P.K.1+100
57	747155,382	4706429,680	0,000	P.K.1+120
58	747136,047	4706434,795	0,000	P.K.1+140
59	747116,691	4706439,834	0,000	P.K.1+160
60	747097,316	4706444,793	0,000	P.K.1+180
61	747077,920	4706449,676	0,000	P.K.1+200
62	747058,506	4706454,481	0,000	P.K.1+220
63	747039,073	4706459,208	0,000	P.K.1+240
64	747019,619	4706463,857	0,000	P.K.1+260
65	747000,149	4706468,430	0,000	P.K.1+280
66	746980,659	4706472,923	0,000	P.K.1+300
67	746961,153	4706477,339	0,000	P.K.1+320
68	746941,628	4706481,676	0,000	P.K.1+340
69	746922,087	4706485,936	0,000	P.K.1+360
70	746902,528	4706490,117	0,000	P.K.1+380
71	746882,953	4706494,220	0,000	P.K.1+400
72	746863,362	4706498,245	0,000	P.K.1+420
73	746843,754	4706502,191	0,000	P.K.1+440
74	746824,132	4706506,059	0,000	P.K.1+460
75	746804,493	4706509,848	0,000	P.K.1+480
76	746784,838	4706513,547	0,000	P.K.1+500
77	746765,157	4706517,108	0,000	P.K.1+520
78	746745,442	4706520,474	0,000	P.K.1+540
79	746725,685	4706523,589	0,000	P.K.1+560
80	746705,884	4706526,396	0,000	P.K.1+580
81	746686,032	4706528,838	0,000	P.K.1+600

PUNTO	X	Y	Z	NOMBRE
82	746666,135	4706530,859	0,000	P.K.1+620
83	746646,198	4706532,438	0,000	P.K.1+640
84	746626,230	4706533,574	0,000	P.K.1+660
85	746606,242	4706534,266	0,000	P.K.1+680
86	746586,243	4706534,514	0,000	P.K.1+700
87	746566,245	4706534,317	0,000	P.K.1+720
88	746546,254	4706533,676	0,000	P.K.1+740
89	746526,284	4706532,590	0,000	P.K.1+760
90	746506,342	4706531,062	0,000	P.K.1+780
91	746486,440	4706529,093	685,801	P.K.1+800
92	746466,586	4706526,680	680,550	P.K.1+820
93	746446,790	4706523,826	677,861	P.K.1+840
94	746427,064	4706520,534	674,940	P.K.1+860
95	746407,414	4706516,803	671,939	P.K.1+880
96	746387,853	4706512,637	670,801	P.K.1+900
97	746368,390	4706508,036	669,462	P.K.1+920
98	746349,032	4706503,005	669,091	P.K.1+940
99	746329,792	4706497,546	668,171	P.K.1+960
100	746310,678	4706491,659	667,650	P.K.1+980
101	746291,699	4706485,350	667,897	P.K.2+000
102	746272,865	4706478,621	668,240	P.K.2+020
103	746254,186	4706471,474	668,254	P.K.2+040
104	746235,669	4706463,915	666,982	P.K.2+060
105	746217,326	4706455,946	666,826	P.K.2+080
106	746199,164	4706447,570	666,707	P.K.2+100
107	746181,192	4706438,794	666,638	P.K.2+120
108	746163,420	4706429,620	666,222	P.K.2+140
109	746145,856	4706420,054	666,081	P.K.2+160
110	746128,501	4706410,114	666,302	P.K.2+180
111	746111,336	4706399,847	665,562	P.K.2+200
112	746094,339	4706389,308	665,417	P.K.2+220
113	746077,481	4706378,546	665,071	P.K.2+240
114	746060,735	4706367,610	664,844	P.K.2+260
115	746044,071	4706356,550	664,417	P.K.2+280
116	746027,458	4706345,412	663,469	P.K.2+300
117	746010,866	4706334,245	661,873	P.K.2+320
118	745994,255	4706323,105	655,121	P.K.2+340
119	745977,581	4706312,060	655,331	P.K.2+360
120	745960,800	4706301,179	655,300	P.K.2+380
121	745943,866	4706290,536	655,316	P.K.2+400
122	745926,742	4706280,203	655,369	P.K.2+420

PUNTO	X	Y	Z	NOMBRE
123	745909,391	4706270,256	655,255	P.K.2+440
124	745891,784	4706260,770	654,512	P.K.2+460
125	745873,914	4706251,790	654,326	P.K.2+480
126	745855,794	4706243,323	654,645	P.K.2+500
127	745837,441	4706235,379	653,845	P.K.2+520
128	745818,867	4706227,962	653,314	P.K.2+540
129	745800,089	4706221,078	653,285	P.K.2+560
130	745781,122	4706214,734	653,204	P.K.2+580
131	745761,982	4706208,934	657,748	P.K.2+600
132	745742,683	4706203,683	658,059	P.K.2+620
133	745723,243	4706198,986	658,322	P.K.2+640
134	745703,676	4706194,846	658,783	P.K.2+660
135	745684,000	4706191,266	659,025	P.K.2+680
136	745664,229	4706188,251	659,339	P.K.2+700
137	745644,380	4706185,801	661,209	P.K.2+720
138	745624,469	4706183,919	661,799	P.K.2+740
139	745604,512	4706182,607	662,208	P.K.2+760
140	745584,526	4706181,865	662,413	P.K.2+780
141	745564,527	4706181,662	662,699	P.K.2+800
142	745544,529	4706181,919	662,821	P.K.2+820
143	745524,538	4706182,554	663,223	P.K.2+840
144	745504,560	4706183,482	663,539	P.K.2+860
145	745484,591	4706184,620	663,978	P.K.2+880
146	745464,631	4706185,886	664,344	P.K.2+900
147	745444,673	4706187,197	664,738	P.K.2+920
148	745424,716	4706188,510	665,139	P.K.2+940
149	745404,760	4706189,823	666,060	P.K.2+960
150	745384,802	4706191,136	666,983	P.K.2+980
151	745364,845	4706192,448	667,616	P.K.3+000
152	745344,887	4706193,761	668,194	P.K.3+020
153	745324,930	4706195,074	668,831	P.K.3+040
154	745304,972	4706196,388	669,243	P.K.3+060
155	745285,015	4706197,701	669,536	P.K.3+080
156	745265,058	4706199,014	669,876	P.K.3+100
157	745245,101	4706200,327	670,271	P.K.3+120
158	745225,143	4706201,640	670,626	P.K.3+140
159	745205,186	4706202,953	670,575	P.K.3+160
160	745185,229	4706204,266	671,266	P.K.3+180
161	745165,271	4706205,579	672,585	P.K.3+200
162	745145,314	4706206,892	674,180	P.K.3+220
163	745125,357	4706208,205	672,418	P.K.3+240



PUNTO	X	Y	Z	NOMBRE
164	745105,400	4706209,518	672,577	P.K.3+260
165	745085,442	4706210,831	672,223	P.K.3+280
166	745065,485	4706212,144	671,826	P.K.3+300
167	745045,528	4706213,464	671,206	P.K.3+320
168	745025,576	4706214,855	670,952	P.K.3+340
169	745005,635	4706216,403	671,315	P.K.3+360
170	744985,716	4706218,199	671,059	P.K.3+380
171	744965,829	4706220,329	670,606	P.K.3+400
172	744945,993	4706222,881	670,311	P.K.3+420
173	744926,229	4706225,942	670,219	P.K.3+440
174	744906,560	4706229,563	670,376	P.K.3+460
175	744887,002	4706233,744	670,837	P.K.3+480
176	744867,571	4706238,482	671,219	P.K.3+500
177	744848,284	4706243,774	671,530	P.K.3+520
178	744829,156	4706249,614	671,797	P.K.3+540
179	744810,203	4706255,998	671,680	P.K.3+560
180	744791,440	4706262,920	671,858	P.K.3+580
181	744772,881	4706270,376	672,004	P.K.3+600
182	744754,544	4706278,361	672,136	P.K.3+620
183	744736,442	4706286,864	672,430	P.K.3+640
184	744718,591	4706295,882	672,510	P.K.3+660
185	744701,005	4706305,405	672,396	P.K.3+680
186	744683,697	4706315,428	672,424	P.K.3+700
187	744666,683	4706325,941	672,695	P.K.3+720
188	744649,976	4706336,935	672,887	P.K.3+740
189	744633,590	4706348,403	673,075	P.K.3+760
190	744617,539	4706360,333	673,469	P.K.3+780
191	744601,835	4706372,717	673,657	P.K.3+800
192	744586,482	4706385,534	673,629	P.K.3+820
193	744571,443	4706398,719	673,824	P.K.3+840
194	744556,667	4706412,198	673,885	P.K.3+860
195	744542,100	4706425,903	674,023	P.K.3+880
196	744527,682	4706439,764	674,055	P.K.3+900
197	744513,352	4706453,717	674,252	P.K.3+920
198	744499,049	4706467,697	674,445	P.K.3+940
199	744484,667	4706481,595	674,678	P.K.3+960
200	744470,070	4706495,267	674,704	P.K.3+980
201	744455,128	4706508,562	675,609	P.K.4+000
202	744439,727	4706521,320	675,695	P.K.4+020
203	744423,831	4706533,454	675,879	P.K.4+040
204	744407,461	4706544,945	676,056	P.K.4+060

PUNTO	X	Y	Z	NOMBRE
205	744390,645	4706555,770	676,221	P.K.4+080
206	744373,410	4706565,914	676,406	P.K.4+100
207	744355,783	4706575,361	674,807	P.K.4+120
208	744337,792	4706584,097	670,775	P.K.4+140
209	744319,466	4706592,105	670,624	P.K.4+160
210	744300,835	4706599,374	670,594	P.K.4+180
211	744281,928	4706605,892	672,139	P.K.4+200
212	744262,775	4706611,648	673,487	P.K.4+220
213	744243,408	4706616,636	673,324	P.K.4+240
214	744223,856	4706620,844	673,562	P.K.4+260
215	744204,153	4706624,266	677,465	P.K.4+280
216	744184,327	4706626,898	678,747	P.K.4+300
217	744164,413	4706628,735	679,506	P.K.4+320
218	744144,440	4706629,774	682,129	P.K.4+340
219	744124,443	4706630,014	682,551	P.K.4+360
220	744104,451	4706629,454	682,802	P.K.4+380
221	744084,499	4706628,095	683,359	P.K.4+400
222	744064,616	4706625,939	684,171	P.K.4+420
223	744044,836	4706622,990	684,995	P.K.4+440
224	744025,189	4706619,252	686,100	P.K.4+460
225	744005,707	4706614,731	686,721	P.K.4+480
226	743986,423	4706609,435	687,922	P.K.4+500
227	743967,355	4706603,400	687,833	P.K.4+520
228	743948,480	4706596,788	688,181	P.K.4+540
229	743929,743	4706589,791	688,363	P.K.4+560
230	743911,086	4706582,586	688,697	P.K.4+580
231	743892,487	4706575,231	688,892	P.K.4+600
232	743873,947	4706567,727	689,021	P.K.4+620
233	743855,468	4706560,076	689,334	P.K.4+640
234	743837,051	4706552,277	689,044	P.K.4+660
235	743818,697	4706544,331	688,971	P.K.4+680
236	743800,407	4706536,239	687,859	P.K.4+700
237	743782,182	4706528,001	686,920	P.K.4+720
238	743764,021	4706519,622	686,523	P.K.4+740
239	743745,848	4706511,269	686,291	P.K.4+760
240	743727,570	4706503,150	686,188	P.K.4+780
241	743709,112	4706495,450	686,256	P.K.4+800
242	743690,413	4706488,359	685,859	P.K.4+820
243	743671,448	4706482,010	686,063	P.K.4+840
244	743652,245	4706476,425	686,705	P.K.4+860
245	743632,833	4706471,612	686,517	P.K.4+880

PUNTO	X	Y	Z	NOMBRE
246	743613,245	4706467,579	686,249	P.K.4+900
247	743593,511	4706464,332	686,195	P.K.4+920
248	743573,663	4706461,876	686,618	P.K.4+940
249	743553,733	4706460,217	686,683	P.K.4+960
250	743533,752	4706459,358	689,578	P.K.4+980
251	743513,753	4706459,296	694,345	P.K.5+000
252	743493,768	4706460,035	696,234	P.K.5+020
253	743473,827	4706461,572	692,776	P.K.5+040
254	743453,965	4706463,906	689,079	P.K.5+060
255	743434,212	4706467,031	687,753	P.K.5+080
256	743414,599	4706470,944	688,146	P.K.5+100
257	743395,159	4706475,639	688,370	P.K.5+120
258	743375,922	4706481,107	688,314	P.K.5+140
259	743356,919	4706487,341	688,653	P.K.5+160
260	743338,180	4706494,328	689,086	P.K.5+180
261	743319,736	4706502,060	689,441	P.K.5+200
262	743301,616	4706510,523	689,771	P.K.5+220
263	743283,849	4706519,703	690,064	P.K.5+240
264	743266,463	4706529,588	690,587	P.K.5+260
265	743249,486	4706540,159	691,392	P.K.5+280
266	743232,945	4706551,400	692,544	P.K.5+300
267	743216,831	4706563,246	692,882	P.K.5+320
268	743201,048	4706575,531	692,705	P.K.5+340
269	743185,486	4706588,093	693,503	P.K.5+360
270	743170,021	4706600,776	693,309	P.K.5+380
271	743154,536	4706613,435	692,948	P.K.5+400
272	743138,945	4706625,962	692,529	P.K.5+420
273	743123,161	4706638,245	692,228	P.K.5+440
274	743107,105	4706650,170	692,115	P.K.5+460
275	743090,706	4706661,618	691,474	P.K.5+480
276	743073,904	4706672,464	687,727	P.K.5+500
277	743056,682	4706682,633	686,330	P.K.5+520
278	743039,069	4706692,104	691,124	P.K.5+540
279	743021,090	4706700,864	693,708	P.K.5+560
280	743002,775	4706708,897	694,565	P.K.5+580
281	742984,155	4706716,193	694,065	P.K.5+600
282	742965,256	4706722,737	694,886	P.K.5+620
283	742946,112	4706728,521	695,913	P.K.5+640
284	742926,751	4706733,534	695,255	P.K.5+660
285	742907,206	4706737,769	695,946	P.K.5+680
286	742887,506	4706741,219	696,464	P.K.5+700

PUNTO	X	Y	Z	NOMBRE
287	742867,685	4706743,879	696,650	P.K.5+720
288	742847,773	4706745,744	696,741	P.K.5+740
289	742827,802	4706746,811	696,772	P.K.5+760
290	742807,805	4706747,078	696,369	P.K.5+780
291	742787,812	4706746,552	696,324	P.K.5+800
292	742767,851	4706745,314	695,964	P.K.5+820
293	742747,933	4706743,505	695,706	P.K.5+840
294	742728,059	4706741,262	695,826	P.K.5+860
295	742708,220	4706738,726	695,765	P.K.5+880
296	742688,402	4706736,034	695,798	P.K.5+900
297	742668,586	4706733,318	695,898	P.K.5+920
298	742648,762	4706730,676	695,854	P.K.5+940
299	742628,915	4706728,193	696,037	P.K.5+960
300	742609,041	4706725,956	696,577	P.K.5+980
301	742589,132	4706724,049	697,456	P.K.6+000
302	742569,188	4706722,554	698,553	P.K.6+020
303	742549,216	4706721,503	699,688	P.K.6+040
304	742529,224	4706720,896	700,502	P.K.6+060
305	742509,226	4706720,733	700,760	P.K.6+080
306	742489,227	4706721,014	700,841	P.K.6+100
307	742469,241	4706721,740	700,428	P.K.6+120
308	742449,274	4706722,910	700,158	P.K.6+140
309	742429,340	4706724,523	700,253	P.K.6+160
310	742409,445	4706726,577	700,545	P.K.6+180
311	742389,597	4706729,036	700,748	P.K.6+200
312	742369,790	4706731,816	701,018	P.K.6+220
313	742350,019	4706734,832	701,298	P.K.6+240
314	742330,271	4706737,998	701,647	P.K.6+260
315	742310,533	4706741,228	701,959	P.K.6+280
316	742290,796	4706744,465	702,089	P.K.6+300
317	742271,059	4706747,702	702,222	P.K.6+320
318	742251,323	4706750,939	702,423	P.K.6+340
319	742231,585	4706754,176	702,565	P.K.6+360
320	742211,849	4706757,413	702,698	P.K.6+380
321	742192,112	4706760,650	702,844	P.K.6+400
322	742172,375	4706763,888	703,006	P.K.6+420
323	742152,639	4706767,125	703,301	P.K.6+440
324	742132,902	4706770,362	703,454	P.K.6+460
325	742113,165	4706773,598	703,776	P.K.6+480
326	742093,428	4706776,835	704,133	P.K.6+500
327	742073,692	4706780,072	704,503	P.K.6+520

PUNTO	X	Y	Z	NOMBRE
328	742053,955	4706783,309	704,798	P.K.6+540
329	742034,218	4706786,546	705,121	P.K.6+560
330	742014,481	4706789,784	705,466	P.K.6+580
331	741994,745	4706793,021	705,764	P.K.6+600
332	741975,007	4706796,258	706,089	P.K.6+620
333	741955,271	4706799,495	706,385	P.K.6+640
334	741935,535	4706802,732	706,722	P.K.6+660
335	741915,797	4706805,969	707,054	P.K.6+680
336	741896,061	4706809,206	707,320	P.K.6+700
337	741876,324	4706812,442	707,437	P.K.6+720
338	741856,587	4706815,679	707,624	P.K.6+740
339	741836,850	4706818,917	707,789	P.K.6+760
340	741817,114	4706822,154	708,029	P.K.6+780
341	741797,376	4706825,391	708,271	P.K.6+800
342	741777,640	4706828,628	708,470	P.K.6+820
343	741757,904	4706831,865	708,651	P.K.6+840
344	741738,166	4706835,102	708,821	P.K.6+860
345	741718,430	4706838,339	709,052	P.K.6+880
346	741698,693	4706841,576	709,261	P.K.6+900
347	741678,956	4706844,814	709,489	P.K.6+920
348	741659,219	4706848,051	709,797	P.K.6+940
349	741639,483	4706851,288	710,025	P.K.6+960
350	741619,745	4706854,524	710,237	P.K.6+980
351	741600,009	4706857,761	710,457	P.K.7+000
352	741580,272	4706860,998	710,754	P.K.7+020
353	741560,535	4706864,235	711,226	P.K.7+040
354	741540,799	4706867,472	711,806	P.K.7+060
355	741521,062	4706870,709	712,524	P.K.7+080
356	741501,326	4706873,947	713,244	P.K.7+100
357	741481,588	4706877,184	714,021	P.K.7+120
358	741461,852	4706880,421	714,734	P.K.7+140
359	741442,115	4706883,658	715,573	P.K.7+160
360	741422,378	4706886,895	716,250	P.K.7+180
361	741402,641	4706890,132	717,036	P.K.7+200
362	741382,905	4706893,369	717,839	P.K.7+220
363	741363,182	4706896,690	718,520	P.K.7+240
364	741343,486	4706900,170	719,301	P.K.7+260
365	741323,820	4706903,807	720,166	P.K.7+280
366	741304,182	4706907,601	720,910	P.K.7+300
367	741284,576	4706911,552	721,244	P.K.7+320
368	741265,002	4706915,659	721,115	P.K.7+340

PUNTO	X	Y	Z	NOMBRE
369	741245,461	4706919,923	721,073	P.K.7+360
370	741225,955	4706924,343	721,022	P.K.7+380
371	741206,486	4706928,920	720,778	P.K.7+400
372	741187,054	4706933,652	720,559	P.K.7+420
373	741167,659	4706938,539	720,469	P.K.7+440
374	741148,305	4706943,581	720,636	P.K.7+460
375	741128,991	4706948,778	720,825	P.K.7+480
376	741109,720	4706954,129	721,000	P.K.7+500
377	741090,492	4706959,635	721,179	P.K.7+520
378	741071,309	4706965,293	721,361	P.K.7+540
379	741052,171	4706971,105	721,654	P.K.7+560
380	741033,081	4706977,070	721,933	P.K.7+580
381	741014,035	4706983,172	722,280	P.K.7+600
382	740994,995	4706989,298	722,714	P.K.7+620
383	740975,957	4706995,425	723,384	P.K.7+640
384	740956,917	4707001,552	724,101	P.K.7+660
385	740937,878	4707007,678	724,789	P.K.7+680
386	740918,840	4707013,804	725,551	P.K.7+700
387	740899,800	4707019,930	726,189	P.K.7+720
388	740880,761	4707026,057	726,920	P.K.7+740
389	740861,722	4707032,183	727,664	P.K.7+760
390	740842,683	4707038,309	728,281	P.K.7+780
391	740823,643	4707044,435	728,577	P.K.7+800
392	740804,605	4707050,561	728,748	P.K.7+820
393	740785,566	4707056,687	728,891	P.K.7+840
394	740766,526	4707062,814	729,067	P.K.7+860
395	740747,488	4707068,941	729,110	P.K.7+880
396	740728,448	4707075,067	729,177	P.K.7+900
397	740709,409	4707081,193	729,274	P.K.7+920
398	740690,370	4707087,319	729,321	P.K.7+940
399	740671,331	4707093,446	729,338	P.K.7+960
400	740652,292	4707099,572	729,426	P.K.7+980
401	740633,253	4707105,698	729,365	P.K.8+000
402	740614,214	4707111,824	729,351	P.K.8+020
403	740595,174	4707117,950	729,424	P.K.8+040
404	740576,136	4707124,076	729,472	P.K.8+060
405	740557,096	4707130,203	729,440	P.K.8+080
406	740538,057	4707136,330	729,508	P.K.8+100
407	740519,019	4707142,456	729,518	P.K.8+120
408	740499,979	4707148,582	729,566	P.K.8+140
409	740480,940	4707154,708	729,625	P.K.8+160

PUNTO	X	Y	Z	NOMBRE
410	740461,901	4707160,835	729,657	P.K.8+180
411	740442,862	4707166,961	729,707	P.K.8+200
412	740423,822	4707173,087	729,787	P.K.8+220
413	740404,784	4707179,213	729,946	P.K.8+240
414	740385,756	4707185,373	730,159	P.K.8+260
415	740366,770	4707191,664	730,622	P.K.8+280
416	740347,832	4707198,095	731,351	P.K.8+300
417	740328,940	4707204,662	732,626	P.K.8+320
418	740310,097	4707211,366	734,234	P.K.8+340
419	740291,302	4707218,207	733,813	P.K.8+360
420	740272,559	4707225,184	734,085	P.K.8+380
421	740253,867	4707232,299	735,051	P.K.8+400
422	740235,226	4707239,549	735,914	P.K.8+420
423	740216,639	4707246,933	736,765	P.K.8+440
424	740198,106	4707254,453	737,593	P.K.8+460
425	740179,629	4707262,108	738,387	P.K.8+480
426	740161,208	4707269,897	739,264	P.K.8+500
427	740142,843	4707277,819	740,220	P.K.8+520
428	740124,537	4707285,875	741,008	P.K.8+540
429	740106,289	4707294,063	741,943	P.K.8+560
430	740088,102	4707302,385	742,890	P.K.8+580
431	740069,976	4707310,839	743,876	P.K.8+600
432	740051,912	4707319,423	744,584	P.K.8+620
433	740033,915	4707328,148	745,471	P.K.8+640
434	740016,042	4707337,126	747,008	P.K.8+660
435	739998,394	4707346,535	743,658	P.K.8+680
436	739981,082	4707356,546	747,993	P.K.8+700
437	739964,180	4707367,238	748,763	P.K.8+720
438	739947,721	4707378,598	749,358	P.K.8+740
439	739931,727	4707390,606	749,955	P.K.8+760
440	739916,228	4707403,244	750,532	P.K.8+780
441	739901,247	4707416,493	751,102	P.K.8+800
442	739886,807	4707430,329	751,508	P.K.8+820
443	739872,931	4707444,732	751,533	P.K.8+840
444	739859,636	4707459,672	747,436	P.K.8+860
445	739846,840	4707475,043	746,417	P.K.8+880
446	739834,397	4707490,702	744,924	P.K.8+900
447	739822,150	4707506,514	745,521	P.K.8+920
448	739809,944	4707522,357	744,505	P.K.8+940
449	739797,674	4707538,152	739,996	P.K.8+960
450	739785,258	4707553,832	740,305	P.K.8+980

PUNTO	X	Y	Z	NOMBRE
451	739772,622	4707569,335	743,558	P.K.9+000
452	739759,687	4707584,589	743,548	P.K.9+020
453	739746,393	4707599,530	743,313	P.K.9+040
454	739732,728	4707614,135	743,487	P.K.9+060
455	739718,703	4707628,393	742,847	P.K.9+080
456	739704,327	4707642,296	741,823	P.K.9+100
457	739689,606	4707655,836	738,521	P.K.9+120
458	739674,552	4707669,003	737,547	P.K.9+140
459	739659,175	4707681,790	736,607	P.K.9+160
460	739643,481	4707694,189	735,663	P.K.9+180
461	739627,483	4707706,191	735,226	P.K.9+200
462	739611,190	4707717,789	735,326	P.K.9+220
463	739594,611	4707728,978	735,838	P.K.9+240
464	739577,759	4707739,747	736,411	P.K.9+260
465	739560,643	4707750,092	737,466	P.K.9+280
466	739543,273	4707760,006	736,391	P.K.9+300
467	739525,661	4707769,484	734,754	P.K.9+320
468	739507,817	4707778,517	733,866	P.K.9+340
469	739489,754	4707787,102	732,919	P.K.9+360
470	739471,481	4707795,232	733,361	P.K.9+380
471	739453,013	4707802,911	738,135	P.K.9+400
472	739434,390	4707810,201	739,221	P.K.9+420
473	739415,651	4707817,194	739,220	P.K.9+440
474	739396,839	4707823,984	745,842	P.K.9+460
475	739377,989	4707830,668	747,205	P.K.9+480
476	739359,132	4707837,337	747,741	P.K.9+500
477	739340,296	4707844,060	750,464	P.K.9+520
478	739321,501	4707850,899	752,220	P.K.9+540
479	739302,772	4707857,914	756,842	P.K.9+560
480	739284,133	4707865,168	755,776	P.K.9+580
481	739265,612	4707872,717	754,459	P.K.9+600
482	739247,240	4707880,621	750,959	P.K.9+620
483	739229,044	4707888,923	751,439	P.K.9+640
484	739211,038	4707897,627	751,498	P.K.9+660
485	739193,229	4707906,730	746,576	P.K.9+680
486	739175,627	4707916,226	745,335	P.K.9+700
487	739158,241	4707926,110	747,684	P.K.9+720
488	739141,078	4707936,379	752,029	P.K.9+740
489	739124,148	4707947,027	755,169	P.K.9+760
490	739107,459	4707958,048	756,014	P.K.9+780
491	739091,013	4707969,429	760,136	P.K.9+800



PUNTO	X	Y	Z	NOMBRE
492	739074,788	4707981,125	763,110	P.K.9+820
493	739058,752	4707993,076	765,731	P.K.9+840
494	739042,866	4708005,228	765,963	P.K.9+860
495	739027,096	4708017,529	763,698	P.K.9+880
496	739011,401	4708029,926	765,420	P.K.9+900
497	738995,741	4708042,367	762,254	P.K.9+920
498	738980,070	4708054,794	758,863	P.K.9+940
499	738964,327	4708067,130	758,757	P.K.9+960
500	738948,451	4708079,294	759,477	P.K.9+980
501	738932,383	4708091,204	758,919	P.K.10+000
502	738916,068	4708102,771	759,085	P.K.10+020
503	738899,472	4708113,932	759,375	P.K.10+040
504	738882,603	4708124,676	759,669	P.K.10+060
505	738865,470	4708134,995	759,858	P.K.10+080
506	738848,085	4708144,882	759,939	P.K.10+100
507	738830,459	4708154,331	759,834	P.K.10+120
508	738812,600	4708163,337	759,711	P.K.10+140
509	738794,524	4708171,895	758,900	P.K.10+160
510	738776,238	4708179,997	758,876	P.K.10+180
511	738757,765	4708187,659	758,644	P.K.10+200
512	738739,145	4708194,962	759,369	P.K.10+220
513	738720,423	4708201,997	758,281	P.K.10+240
514	738701,636	4708208,858	757,796	P.K.10+260
515	738682,821	4708215,642	757,529	P.K.10+280
516	738664,003	4708222,417	757,231	P.K.10+300
517	738645,186	4708229,192	756,888	P.K.10+320
518	738626,367	4708235,968	756,594	P.K.10+340
519	738607,550	4708242,743	756,274	P.K.10+360
520	738588,731	4708249,518	755,891	P.K.10+380
521	738569,914	4708256,293	755,524	P.K.10+400
522	738551,095	4708263,068	755,381	P.K.10+420
523	738532,278	4708269,844	755,472	P.K.10+440
524	738513,460	4708276,619	756,137	P.K.10+460
525	738494,642	4708283,394	755,779	P.K.10+480
526	738475,824	4708290,169	751,563	P.K.10+500
527	738457,006	4708296,944	758,537	P.K.10+520
528	738438,193	4708303,733	759,796	P.K.10+540
529	738419,395	4708310,565	760,559	P.K.10+560
530	738400,625	4708317,471	760,544	P.K.10+580
531	738381,894	4708324,482	760,528	P.K.10+600
532	738363,214	4708331,630	760,871	P.K.10+620

PUNTO	X	Y	Z	NOMBRE
533	738344,600	4708338,946	761,038	P.K.10+640
534	738326,063	4708346,458	760,783	P.K.10+660
535	738307,622	4708354,197	761,281	P.K.10+680
536	738289,290	4708362,193	759,890	P.K.10+700
537	738271,084	4708370,474	757,617	P.K.10+720
538	738253,019	4708379,057	757,059	P.K.10+740
539	738235,099	4708387,939	756,282	P.K.10+760
540	738217,330	4708397,119	755,411	P.K.10+780
541	738199,717	4708406,593	754,439	P.K.10+800
542	738182,263	4708416,361	753,540	P.K.10+820
543	738164,975	4708426,417	752,610	P.K.10+840
544	738147,856	4708436,759	751,908	P.K.10+860
545	738130,913	4708447,386	751,267	P.K.10+880
546	738114,150	4708458,294	751,081	P.K.10+900
547	738097,569	4708469,480	751,085	P.K.10+920
548	738081,178	4708480,940	751,338	P.K.10+940
549	738064,981	4708492,672	751,700	P.K.10+960
550	738048,980	4708504,672	752,270	P.K.10+980
551	738033,183	4708516,937	757,191	P.K.11+000
552	738017,589	4708529,461	757,764	P.K.11+020
553	738002,184	4708542,217	758,851	P.K.11+040
554	737986,952	4708555,178	759,729	P.K.11+060
555	737971,874	4708568,318	760,409	P.K.11+080
556	737956,927	4708581,609	761,023	P.K.11+100
557	737942,094	4708595,024	761,643	P.K.11+120
558	737927,351	4708608,539	762,753	P.K.11+140
559	737912,676	4708622,129	763,285	P.K.11+160
560	737898,048	4708635,768	767,345	P.K.11+180
561	737883,444	4708649,433	767,929	P.K.11+200
562	737868,840	4708663,099	767,769	P.K.11+220
563	737854,221	4708676,748	768,247	P.K.11+240
564	737839,567	4708690,360	768,487	P.K.11+260
565	737824,863	4708703,916	768,339	P.K.11+280
566	737810,089	4708717,398	768,431	P.K.11+300
567	737795,231	4708730,787	768,214	P.K.11+320
568	737780,271	4708744,062	767,569	P.K.11+340
569	737765,194	4708757,203	765,582	P.K.11+360
570	737749,985	4708770,192	765,776	P.K.11+380
571	737734,629	4708783,006	765,911	P.K.11+400
572	737719,120	4708795,635	766,797	P.K.11+420
573	737703,463	4708808,080	768,252	P.K.11+440

PUNTO	X	Y	Z	NOMBRE
574	737687,658	4708820,335	768,514	P.K.11+460
575	737671,707	4708832,401	768,764	P.K.11+480
576	737655,614	4708844,277	769,001	P.K.11+500
577	737639,380	4708855,959	769,396	P.K.11+520
578	737623,007	4708867,446	769,616	P.K.11+540
579	737606,499	4708878,738	770,082	P.K.11+560
580	737589,858	4708889,831	772,323	P.K.11+580
581	737573,084	4708900,724	773,034	P.K.11+600
582	737556,182	4708911,418	773,383	P.K.11+620
583	737539,153	4708921,907	773,751	P.K.11+640
584	737522,001	4708932,193	775,767	P.K.11+660
585	737504,727	4708942,273	776,962	P.K.11+680
586	737487,333	4708952,148	777,843	P.K.11+700
587	737469,823	4708961,813	779,044	P.K.11+720
588	737452,200	4708971,268	780,426	P.K.11+740
589	737434,463	4708980,512	781,548	P.K.11+760
590	737416,620	4708989,546	781,733	P.K.11+780
591	737398,678	4708998,384	768,235	P.K.11+800
592	737380,652	4709007,049	773,640	P.K.11+820
593	737362,554	4709015,562	778,438	P.K.11+840
594	737344,396	4709023,948	778,562	P.K.11+860
595	737326,190	4709032,227	777,984	P.K.11+880
596	737307,946	4709040,423	777,752	P.K.11+900
597	737289,675	4709048,560	777,059	P.K.11+920
598	737271,388	4709056,661	775,854	P.K.11+940
599	737253,097	4709064,750	776,916	P.K.11+960
600	737234,845	4709072,927	774,792	P.K.11+980
601	737216,717	4709081,376	774,046	P.K.12+000
602	737198,810	4709090,282	773,770	P.K.12+020
603	737181,229	4709099,817	774,164	P.K.12+040
604	737164,043	4709110,044	776,676	P.K.12+060
605	737147,280	4709120,951	777,431	P.K.12+080
606	737130,964	4709132,517	777,644	P.K.12+100
607	737115,063	4709144,646	778,201	P.K.12+120
608	737099,468	4709157,167	779,832	P.K.12+140
609	737084,054	4709169,914	782,458	P.K.12+160
610	737068,692	4709182,720	782,580	P.K.12+180
611	737053,235	4709195,412	783,585	P.K.12+200
612	737037,533	4709207,801	783,866	P.K.12+220
613	737021,450	4709219,687	785,286	P.K.12+240
614	737004,882	4709230,887	784,454	P.K.12+260

PUNTO	X	Y	Z	NOMBRE
615	736987,835	4709241,345	785,544	P.K.12+280
616	736970,400	4709251,144	784,958	P.K.12+300
617	736952,712	4709260,477	782,447	P.K.12+320
618	736934,891	4709269,556	780,677	P.K.12+340
619	736917,060	4709278,615	777,183	P.K.12+360
620	736899,417	4709288,036	775,701	P.K.12+380
621	736882,225	4709298,250	766,316	P.K.12+400
622	736865,763	4709309,600	761,790	P.K.12+420
623	736850,168	4709322,116	761,172	P.K.12+440
624	736835,524	4709335,732	760,430	P.K.12+460
625	736821,908	4709350,376	759,928	P.K.12+480
626	736809,391	4709365,971	759,756	P.K.12+500
627	736798,042	4709382,433	759,967	P.K.12+520
628	736787,919	4709399,677	760,343	P.K.12+540
629	736779,044	4709417,597	760,484	P.K.12+560
630	736771,146	4709435,970	760,474	P.K.12+580
631	736763,779	4709454,565	761,139	P.K.12+600
632	736760,900	4709461,967	761,452	P.K.12+607.942

### 3.3.COMPARATIVA CON LA CARTOGRAFÍA

Punto	X	Y	Z campo	Z carto	Dif.	PK
1	748331.478	4706339.392	642.74	642.50	0.24	P.K.0+000
2	748311.500	4706338.464	642.93	642.68	0.25	P.K.0+020
3	748291.527	4706337.429	643.11	642.90	0.21	P.K.0+040
4	748271.548	4706336.500	643.24	643.10	0.14	P.K.0+060
5	748251.560	4706335.822	643.42	643.39	0.03	P.K.0+080
6	748231.563	4706335.541	643.83	643.94	-0.11	P.K.0+100
7	748211.565	4706335.800			TUNEL	P.K.0+120
8	748191.587	4706336.711			TUNEL	P.K.0+140
9	748171.650	4706338.287			TUNEL	P.K.0+160
10	748151.777	4706340.526			TUNEL	P.K.0+180
11	748131.989	4706343.427			TUNEL	P.K.0+200
12	748112.309	4706346.985			TUNEL	P.K.0+220
13	748092.759	4706351.197			TUNEL	P.K.0+240
14	748073.359	4706356.059			TUNEL	P.K.0+260
15	748054.133	4706361.564			TUNEL	P.K.0+280
16	748035.101	4706367.707			TUNEL	P.K.0+300
17	748016.276	4706374.460			TUNEL	P.K.0+320
18	747997.634	4706381.703			TUNEL	P.K.0+340
19	747979.133	4706389.299			TUNEL	P.K.0+360
20	747960.722	4706397.111			TUNEL	P.K.0+380
21	747942.344	4706405.002			TUNEL	P.K.0+400
22	747923.943	4706412.838			TUNEL	P.K.0+420
23	747905.511	4706420.601			TUNEL	P.K.0+440
24	747887.049	4706428.290			TUNEL	P.K.0+460
25	747868.555	4706435.905			TUNEL	P.K.0+480
26	747850.031	4706443.446			TUNEL	P.K.0+500
27	747831.477	4706450.913			TUNEL	P.K.0+520
28	747812.894	4706458.306			TUNEL	P.K.0+540
29	747794.281	4706465.624			TUNEL	P.K.0+560
30	747775.639	4706472.868			TUNEL	P.K.0+580
31	747756.968	4706480.037			TUNEL	P.K.0+600
32	747738.268	4706487.131			TUNEL	P.K.0+620
33	747719.541	4706494.151			TUNEL	P.K.0+640
34	747700.785	4706501.095			TUNEL	P.K.0+660
35	747682.002	4706507.965			TUNEL	P.K.0+680
36	747663.191	4706514.759			TUNEL	P.K.0+700
37	747644.354	4706521.478			TUNEL	P.K.0+720
38	747625.489	4706528.122			TUNEL	P.K.0+740
39	747606.599	4706534.690			TUNEL	P.K.0+760
40	747587.682	4706541.182			TUNEL	P.K.0+780
41	747568.739	4706547.599			TUNEL	P.K.0+800
42	747549.771	4706553.940			TUNEL	P.K.0+820
43	747530.777	4706560.205			TUNEL	P.K.0+840
44	747511.759	4706566.394			TUNEL	P.K.0+860
45	747492.716	4706572.506			TUNEL	P.K.0+880

Punto	X	Y	Z campo	Z carto	Dif.	PK
46	747473.649	4706578.543			TUNEL	P.K.0+900
47	747454.558	4706584.503			TUNEL	P.K.0+920
48	747435.443	4706590.387			TUNEL	P.K.0+940
49	747416.305	4706596.195			TUNEL	P.K.0+960
50	747397.143	4706601.925			TUNEL	P.K.0+980
51	747377.959	4706607.579			TUNEL	P.K.1+000
52	747358.752	4706613.157			TUNEL	P.K.1+020
53	747339.524	4706618.657			TUNEL	P.K.1+040
54	747320.273	4706624.081			TUNEL	P.K.1+060
55	747301.001	4706629.427			TUNEL	P.K.1+080
56	747281.708	4706634.696			TUNEL	P.K.1+100
57	747262.393	4706639.888			TUNEL	P.K.1+120
58	747243.058	4706645.003			TUNEL	P.K.1+140
59	747223.703	4706650.041			TUNEL	P.K.1+160
60	747204.328	4706655.000			TUNEL	P.K.1+180
61	747184.933	4706659.883			TUNEL	P.K.1+200
62	747165.519	4706664.688			TUNEL	P.K.1+220
63	747146.086	4706669.415			TUNEL	P.K.1+240
64	747126.633	4706674.064			TUNEL	P.K.1+260
65	747107.163	4706678.636			TUNEL	P.K.1+280
66	747087.674	4706683.129			TUNEL	P.K.1+300
67	747068.168	4706687.545			TUNEL	P.K.1+320
68	747048.644	4706691.882			TUNEL	P.K.1+340
69	747029.103	4706696.142			TUNEL	P.K.1+360
70	747009.545	4706700.323			TUNEL	P.K.1+380
71	746989.970	4706704.426			TUNEL	P.K.1+400
72	746970.379	4706708.450			TUNEL	P.K.1+420
73	746950.772	4706712.396			TUNEL	P.K.1+440
74	746931.150	4706716.264			TUNEL	P.K.1+460
75	746911.512	4706720.053			TUNEL	P.K.1+480
76	746891.857	4706723.752			TUNEL	P.K.1+500
77	746872.177	4706727.313			TUNEL	P.K.1+520
78	746852.462	4706730.679			TUNEL	P.K.1+540
79	746832.706	4706733.794			TUNEL	P.K.1+560
80	746812.905	4706736.600			TUNEL	P.K.1+580
81	746793.054	4706739.042			TUNEL	P.K.1+600
82	746773.157	4706741.063			TUNEL	P.K.1+620
83	746753.220	4706742.642			TUNEL	P.K.1+640
84	746733.253	4706743.778			TUNEL	P.K.1+660
85	746713.265	4706744.470			TUNEL	P.K.1+680
86	746693.267	4706744.718			TUNEL	P.K.1+700
87	746673.269	4706744.521			TUNEL	P.K.1+720
88	746653.279	4706743.880			TUNEL	P.K.1+740
89	746633.309	4706742.794			TUNEL	P.K.1+760
90	746613.368	4706741.266			TUNEL	P.K.1+780
91	746593.466	4706739.294	685.80	685.89	-0.09	P.K.1+800
92	746573.612	4706736.881	680.55	680.66	-0.11	P.K.1+820
93	746553.817	4706734.027	677.86	677.68	0.18	P.K.1+840
94	746534.091	4706730.735	674.94	675.21	-0.27	P.K.1+860

Punto	X	Y	Z campo	Z carto	Dif.	PK
95	746514.442	4706727.004	671.94	672.00	-0.06	P.K.1+880
96	746494.881	4706722.838	670.80	671.00	-0.20	P.K.1+900
97	746475.418	4706718.238	669.46	669.71	-0.25	P.K.1+920
98	746456.061	4706713.207	669.09	669.11	-0.02	P.K.1+940
99	746436.821	4706707.748	668.17	668.41	-0.24	P.K.1+960
100	746417.708	4706701.861	667.65	667.89	-0.24	P.K.1+980
101	746398.729	4706695.552	667.90	667.98	-0.09	P.K.2+000
102	746379.896	4706688.823	668.24	668.30	-0.06	P.K.2+020
103	746361.217	4706681.676	668.25	668.46	-0.21	P.K.2+040
104	746342.701	4706674.117	666.98	667.18	-0.20	P.K.2+060
105	746324.358	4706666.148	666.82	666.83	-0.01	P.K.2+080
106	746306.196	4706657.773	666.71	666.76	-0.05	P.K.2+100
107	746288.225	4706648.997	666.64	666.56	0.08	P.K.2+120
108	746270.453	4706639.823	666.22	666.37	-0.15	P.K.2+140
109	746252.890	4706630.257	666.08	665.97	0.11	P.K.2+160
110	746235.535	4706620.317	666.30	666.00	0.30	P.K.2+180
111	746218.371	4706610.051	665.56	665.65	-0.09	P.K.2+200
112	746201.374	4706599.512	665.42	665.51	-0.10	P.K.2+220
113	746184.516	4706588.750	665.07	665.16	-0.09	P.K.2+240
114	746167.771	4706577.814	664.84	664.76	0.08	P.K.2+260
115	746151.107	4706566.754	664.42	664.16	0.25	P.K.2+280
116	746134.495	4706555.617	663.47	663.46	0.01	P.K.2+300
117	746117.903	4706544.450	661.87	662.03	-0.16	P.K.2+320
118	746101.293	4706533.310	655.12	655.00	0.12	P.K.2+340
119	746084.619	4706522.265	655.33	655.00	0.33	P.K.2+360
120	746067.838	4706511.385	655.30	655.12	0.18	P.K.2+380
121	746050.905	4706500.742	655.31	655.04	0.27	P.K.2+400
122	746033.781	4706490.409	655.37	655.08	0.29	P.K.2+420
123	746016.431	4706480.462	655.25	654.93	0.32	P.K.2+440
124	745998.824	4706470.976	654.51	654.00	0.51	P.K.2+460
125	745980.954	4706461.996	654.32	654.09	0.23	P.K.2+480
126	745962.835	4706453.530	654.64	654.33	0.31	P.K.2+500
127	745944.482	4706445.586	653.84	653.52	0.32	P.K.2+520
128	745925.909	4706438.169	653.31	653.45	-0.14	P.K.2+540
129	745907.131	4706431.285	653.28	653.17	0.11	P.K.2+560
130	745888.165	4706424.941	653.20	652.69	0.51	P.K.2+580
131	745869.025	4706419.141	657.75	658.04	-0.29	P.K.2+600
132	745849.727	4706413.890	658.06	658.25	-0.19	P.K.2+620
133	745830.287	4706409.193	658.32	658.55	-0.23	P.K.2+640
134	745810.721	4706405.053	658.78	658.85	-0.07	P.K.2+660
135	745791.045	4706401.473	659.02	659.13	-0.11	P.K.2+680
136	745771.274	4706398.458	659.34	659.36	-0.02	P.K.2+700
137	745751.426	4706396.008	661.21	661.21	0.00	P.K.2+720
138	745731.515	4706394.126	661.80	661.77	0.03	P.K.2+740
139	745711.559	4706392.814	662.21	662.21	0.00	P.K.2+760
140	745691.573	4706392.072	662.41	662.58	-0.17	P.K.2+780
141	745671.575	4706391.869	662.70	662.89	-0.19	P.K.2+800
142	745651.577	4706392.126	662.82	663.04	-0.22	P.K.2+820
143	745631.587	4706392.761	663.22	663.14	0.08	P.K.2+840

Punto	X	Y	Z campo	Z carto	Dif.	PK
144	745611.609	4706393.689	663.54	663.43	0.11	P.K.2+860
145	745591.641	4706394.827	663.98	663.62	0.36	P.K.2+880
146	745571.681	4706396.093	664.34	664.31	0.03	P.K.2+900
147	745551.724	4706397.404	664.74	664.69	0.04	P.K.2+920
148	745531.767	4706398.717	665.14	665.00	0.14	P.K.2+940
149	745511.811	4706400.030	666.06	665.64	0.42	P.K.2+960
150	745491.854	4706401.343	666.98	666.53	0.45	P.K.2+980
151	745471.897	4706402.655	667.61	666.74	0.87	P.K.3+000
152	745451.940	4706403.968	668.19	666.90	1.29	P.K.3+020
153	745431.983	4706405.281	668.83	666.97	1.86	P.K.3+040
154	745412.026	4706406.594	669.24	667.76	1.48	P.K.3+060
155	745392.069	4706407.907	669.53	668.00	1.53	P.K.3+080
156	745372.113	4706409.220	669.87	668.55	1.32	P.K.3+100
157	745352.156	4706410.533	670.27	669.00	1.27	P.K.3+120
158	745332.199	4706411.846	670.62	669.54	1.08	P.K.3+140
159	745312.242	4706413.159	670.57	670.40	0.17	P.K.3+160
160	745292.285	4706414.472	671.26	671.16	0.10	P.K.3+180
161	745272.328	4706415.785	672.58	672.01	0.57	P.K.3+200
162	745252.371	4706417.098	674.18	673.00	1.18	P.K.3+220
163	745232.415	4706418.411	672.41	671.98	0.43	P.K.3+240
164	745212.458	4706419.724	672.57	672.12	0.45	P.K.3+260
165	745192.501	4706421.037	672.22	671.88	0.34	P.K.3+280
166	745172.544	4706422.350	671.82	671.24	0.58	P.K.3+300
167	745152.588	4706423.670	671.20	670.74	0.46	P.K.3+320
168	745132.636	4706425.060	670.95	670.53	0.42	P.K.3+340
169	745112.696	4706426.608	671.31	670.70	0.61	P.K.3+360
170	745092.777	4706428.404	671.06	670.72	0.33	P.K.3+380
171	745072.891	4706430.534	670.60	670.16	0.44	P.K.3+400
172	745053.055	4706433.086	670.31	669.93	0.38	P.K.3+420
173	745033.291	4706436.147	670.22	669.94	0.27	P.K.3+440
174	745013.623	4706439.768	670.37	669.94	0.43	P.K.3+460
175	744994.065	4706443.949	670.83	670.23	0.60	P.K.3+480
176	744974.635	4706448.687	671.22	670.63	0.59	P.K.3+500
177	744955.348	4706453.978	671.53	670.94	0.59	P.K.3+520
178	744936.221	4706459.818	671.79	671.20	0.59	P.K.3+540
179	744917.268	4706466.202	671.68	671.27	0.41	P.K.3+560
180	744898.505	4706473.124	671.85	671.38	0.47	P.K.3+580
181	744879.947	4706480.580	672.00	671.52	0.48	P.K.3+600
182	744861.610	4706488.564	672.13	671.67	0.46	P.K.3+620
183	744843.509	4706497.067	672.43	671.88	0.55	P.K.3+640
184	744825.658	4706506.085	672.51	671.97	0.54	P.K.3+660
185	744808.072	4706515.608	672.39	671.95	0.44	P.K.3+680
186	744790.765	4706525.630	672.42	672.00	0.42	P.K.3+700
187	744773.751	4706536.143	672.69	672.38	0.31	P.K.3+720
188	744757.045	4706547.137	672.88	672.75	0.13	P.K.3+740
189	744740.659	4706558.604	673.07	672.82	0.25	P.K.3+760
190	744724.608	4706570.534	673.47	672.99	0.48	P.K.3+780
191	744708.905	4706582.918	673.65	673.21	0.44	P.K.3+800
192	744693.552	4706595.735	673.63	673.50	0.13	P.K.3+820



Punto	X	Y	Z campo	Z carto	Dif.	PK
193	744678.513	4706608.919	673.82	673.60	0.22	P.K.3+840
194	744663.738	4706622.398	673.88	673.74	0.14	P.K.3+860
195	744649.171	4706636.102	674.02	673.87	0.15	P.K.3+880
196	744634.753	4706649.963	674.05	673.95	0.10	P.K.3+900
197	744620.424	4706663.916	674.25	674.04	0.21	P.K.3+920
198	744606.121	4706677.895	674.44	674.23	0.21	P.K.3+940
199	744591.739	4706691.793	674.68	674.94	-0.27	P.K.3+960
200	744577.142	4706705.465	674.70	674.82	-0.12	P.K.3+980
201	744562.201	4706718.759	675.61	675.00	0.61	P.K.4+000
202	744546.800	4706731.517	675.69	675.48	0.21	P.K.4+020
203	744530.904	4706743.651	675.88	675.83	0.05	P.K.4+040
204	744514.535	4706755.141	676.05	675.88	0.17	P.K.4+060
205	744497.719	4706765.966	676.22	675.97	0.25	P.K.4+080
206	744480.485	4706776.110	676.40	676.09	0.31	P.K.4+100
207	744462.858	4706785.557	674.80	675.13	-0.33	P.K.4+120
208	744444.867	4706794.292	670.77	671.77	-1.00	P.K.4+140
209	744426.542	4706802.300	670.62	670.48	0.14	P.K.4+160
210	744407.911	4706809.569	670.59	670.71	-0.12	P.K.4+180
211	744389.005	4706816.087	672.14	672.02	0.12	P.K.4+200
212	744369.852	4706821.843	673.48	673.14	0.34	P.K.4+220
213	744350.485	4706826.830	673.32	673.28	0.04	P.K.4+240
214	744330.934	4706831.038	673.56	673.96	-0.40	P.K.4+260
215	744311.231	4706834.460	677.46	677.06	0.40	P.K.4+280
216	744291.406	4706837.092	678.74	678.70	0.04	P.K.4+300
217	744271.492	4706838.929	679.50	679.73	-0.23	P.K.4+320
218	744251.520	4706839.968	682.13	682.04	0.09	P.K.4+340
219	744231.523	4706840.208	682.55	682.55	0.00	P.K.4+360
220	744211.532	4706839.648	682.80	682.74	0.06	P.K.4+380
221	744191.580	4706838.289	683.36	683.35	0.01	P.K.4+400
222	744171.698	4706836.133	684.17	684.28	-0.11	P.K.4+420
223	744151.918	4706833.184	684.99	684.89	0.10	P.K.4+440
224	744132.271	4706829.446	686.10	685.98	0.12	P.K.4+460
225	744112.790	4706824.925	686.72	687.20	-0.48	P.K.4+480
226	744093.506	4706819.629	687.92	687.02	0.90	P.K.4+500
227	744074.439	4706813.594	687.83	688.69	-0.86	P.K.4+520
228	744055.564	4706806.982	688.18	688.00	0.18	P.K.4+540
229	744036.828	4706799.985	688.36	688.46	-0.10	P.K.4+560
230	744018.171	4706792.780	688.69	688.68	0.01	P.K.4+580
231	743999.573	4706785.426	688.89	688.81	0.08	P.K.4+600
232	743981.033	4706777.922	689.02	689.00	0.02	P.K.4+620
233	743962.555	4706770.271	689.33	689.00	0.33	P.K.4+640
234	743944.138	4706762.472	689.04	688.99	0.05	P.K.4+660
235	743925.784	4706754.526	688.97	688.80	0.17	P.K.4+680
236	743907.495	4706746.434	687.86	688.00	-0.14	P.K.4+700
237	743889.270	4706738.196	686.92	687.00	-0.08	P.K.4+720
238	743871.110	4706729.818	686.52	686.88	-0.36	P.K.4+740
239	743852.937	4706721.465	686.29	686.75	-0.46	P.K.4+760
240	743834.660	4706713.346	686.18	686.44	-0.26	P.K.4+780
241	743816.202	4706705.646	686.25	686.20	0.05	P.K.4+800

Punto	X	Y	Z campo	Z carto	Dif.	PK
242	743797.503	4706698.555	685.86	685.94	-0.09	P.K.4+820
243	743778.539	4706692.206	686.06	685.98	0.08	P.K.4+840
244	743759.336	4706686.621	686.70	686.40	0.30	P.K.4+860
245	743739.925	4706681.808	686.51	686.32	0.19	P.K.4+880
246	743720.337	4706677.775	686.25	685.97	0.27	P.K.4+900
247	743700.604	4706674.528	686.19	685.92	0.27	P.K.4+920
248	743680.756	4706672.073	686.61	686.22	0.39	P.K.4+940
249	743660.827	4706670.414	686.68	686.77	-0.09	P.K.4+960
250	743640.846	4706669.554	689.57	689.52	0.05	P.K.4+980
251	743620.848	4706669.492	694.34	694.89	-0.55	P.K.5+000
252	743600.863	4706670.231	696.23	696.28	-0.05	P.K.5+020
253	743580.923	4706671.768	692.77	692.57	0.20	P.K.5+040
254	743561.061	4706674.102	689.08	688.88	0.20	P.K.5+060
255	743541.308	4706677.227	687.75	687.31	0.44	P.K.5+080
256	743521.696	4706681.140	688.14	687.76	0.38	P.K.5+100
257	743502.256	4706685.835	688.37	687.76	0.61	P.K.5+120
258	743483.020	4706691.303	688.31	688.16	0.15	P.K.5+140
259	743464.017	4706697.536	688.65	688.57	0.08	P.K.5+160
260	743445.279	4706704.523	689.08	688.91	0.17	P.K.5+180
261	743426.835	4706712.255	689.44	689.05	0.39	P.K.5+200
262	743408.715	4706720.718	689.77	689.43	0.34	P.K.5+220
263	743390.949	4706729.898	690.06	689.91	0.15	P.K.5+240
264	743373.563	4706739.782	690.58	690.21	0.37	P.K.5+260
265	743356.587	4706750.353	691.39	691.55	-0.16	P.K.5+280
266	743340.046	4706761.594	692.54	692.57	-0.03	P.K.5+300
267	743323.932	4706773.439	692.88	692.74	0.14	P.K.5+320
268	743308.150	4706785.724	692.70	692.72	-0.02	P.K.5+340
269	743292.588	4706798.286	693.50	693.36	0.14	P.K.5+360
270	743277.123	4706810.968	693.31	693.21	0.09	P.K.5+380
271	743261.639	4706823.627	692.94	692.93	0.01	P.K.5+400
272	743246.048	4706836.154	692.53	692.51	0.01	P.K.5+420
273	743230.264	4706848.436	692.22	692.25	-0.03	P.K.5+440
274	743214.209	4706860.361	692.11	692.03	0.08	P.K.5+460
275	743197.810	4706871.809	691.47	691.32	0.15	P.K.5+480
276	743181.008	4706882.655	687.72	688.45	-0.73	P.K.5+500
277	743163.787	4706892.823	686.33	685.87	0.46	P.K.5+520
278	743146.174	4706902.294	691.12	691.08	0.04	P.K.5+540
279	743128.196	4706911.054	693.70	693.55	0.15	P.K.5+560
280	743109.881	4706919.087	694.56	693.86	0.70	P.K.5+580
281	743091.261	4706926.382	694.06	693.99	0.07	P.K.5+600
282	743072.363	4706932.926	694.88	694.94	-0.06	P.K.5+620
283	743053.219	4706938.710	695.91	695.49	0.42	P.K.5+640
284	743033.859	4706943.723	695.25	695.41	-0.16	P.K.5+660
285	743014.314	4706947.958	695.94	695.54	0.40	P.K.5+680
286	742994.615	4706951.408	696.46	696.11	0.35	P.K.5+700
287	742974.794	4706954.067	696.65	696.57	0.08	P.K.5+720
288	742954.882	4706955.932	696.74	696.52	0.22	P.K.5+740
289	742934.912	4706956.999	696.77	696.48	0.29	P.K.5+760
290	742914.915	4706957.266	696.37	696.71	-0.35	P.K.5+780

Punto	X	Y	Z campo	Z carto	Dif.	PK
291	742894.923	4706956.740	696.32	696.24	0.08	P.K.5+800
292	742874.962	4706955.502	695.96	695.83	0.13	P.K.5+820
293	742855.045	4706953.693	695.70	695.68	0.02	P.K.5+840
294	742835.171	4706951.450	695.82	695.76	0.06	P.K.5+860
295	742815.333	4706948.914	695.76	695.94	-0.18	P.K.5+880
296	742795.515	4706946.222	695.79	695.79	0.00	P.K.5+900
297	742775.700	4706943.506	695.89	695.96	-0.07	P.K.5+920
298	742755.876	4706940.864	695.85	695.86	-0.01	P.K.5+940
299	742736.030	4706938.381	696.03	696.07	-0.04	P.K.5+960
300	742716.156	4706936.144	696.57	696.45	0.12	P.K.5+980
301	742696.247	4706934.237	697.45	697.48	-0.03	P.K.6+000
302	742676.304	4706932.742	698.55	698.62	-0.07	P.K.6+020
303	742656.332	4706931.691	699.68	699.71	-0.03	P.K.6+040
304	742636.341	4706931.084	700.50	700.48	0.02	P.K.6+060
305	742616.343	4706930.921	700.76	700.69	0.07	P.K.6+080
306	742596.345	4706931.202	700.84	701.00	-0.16	P.K.6+100
307	742576.359	4706931.928	700.42	700.21	0.21	P.K.6+120
308	742556.393	4706933.098	700.15	699.87	0.28	P.K.6+140
309	742536.459	4706934.711	700.25	699.95	0.30	P.K.6+160
310	742516.565	4706936.765	700.54	700.29	0.25	P.K.6+180
311	742496.717	4706939.224	700.74	700.61	0.13	P.K.6+200
312	742476.911	4706942.004	701.01	700.86	0.15	P.K.6+220
313	742457.140	4706945.019	701.29	701.16	0.13	P.K.6+240
314	742437.392	4706948.185	701.64	701.61	0.03	P.K.6+260
315	742417.655	4706951.415	701.96	701.78	0.18	P.K.6+280
316	742397.918	4706954.652	702.09	702.04	0.05	P.K.6+300
317	742378.182	4706957.889	702.22	702.24	-0.02	P.K.6+320
318	742358.446	4706961.126	702.42	702.27	0.15	P.K.6+340
319	742338.709	4706964.363	702.56	702.37	0.19	P.K.6+360
320	742318.973	4706967.600	702.69	702.45	0.24	P.K.6+380
321	742299.237	4706970.837	702.84	702.62	0.22	P.K.6+400
322	742279.500	4706974.074	703.00	702.78	0.22	P.K.6+420
323	742259.764	4706977.311	703.30	703.04	0.26	P.K.6+440
324	742240.028	4706980.548	703.45	703.41	0.04	P.K.6+460
325	742220.291	4706983.784	703.77	703.52	0.25	P.K.6+480
326	742200.555	4706987.021	704.13	703.87	0.26	P.K.6+500
327	742180.819	4706990.258	704.50	704.23	0.27	P.K.6+520
328	742161.083	4706993.495	704.79	704.57	0.22	P.K.6+540
329	742141.346	4706996.732	705.12	704.92	0.20	P.K.6+560
330	742121.610	4706999.969	705.46	705.33	0.13	P.K.6+580
331	742101.874	4707003.206	705.76	705.73	0.03	P.K.6+600
332	742082.137	4707006.443	706.08	706.04	0.04	P.K.6+620
333	742062.401	4707009.680	706.38	706.11	0.27	P.K.6+640
334	742042.665	4707012.917	706.72	706.38	0.34	P.K.6+660
335	742022.928	4707016.154	707.05	706.71	0.34	P.K.6+680
336	742003.192	4707019.391	707.32	706.99	0.33	P.K.6+700
337	741983.456	4707022.627	707.43	707.30	0.13	P.K.6+720
338	741963.719	4707025.864	707.62	707.67	-0.05	P.K.6+740
339	741943.983	4707029.101	707.78	707.81	-0.03	P.K.6+760

Punto	X	Y	Z campo	Z carto	Dif.	PK
340	741924.247	4707032.338	708.02	707.89	0.13	P.K.6+780
341	741904.510	4707035.575	708.27	707.94	0.33	P.K.6+800
342	741884.774	4707038.812	708.47	708.02	0.45	P.K.6+820
343	741865.038	4707042.049	708.65	708.42	0.23	P.K.6+840
344	741845.301	4707045.286	708.82	708.67	0.15	P.K.6+860
345	741825.565	4707048.523	709.05	708.75	0.30	P.K.6+880
346	741805.829	4707051.760	709.26	709.16	0.10	P.K.6+900
347	741786.092	4707054.997	709.48	709.42	0.06	P.K.6+920
348	741766.356	4707058.234	709.79	709.77	0.02	P.K.6+940
349	741746.620	4707061.471	710.02	709.99	0.03	P.K.6+960
350	741726.883	4707064.707	710.23	710.30	-0.07	P.K.6+980
351	741707.147	4707067.944	710.45	710.45	0.00	P.K.7+000
352	741687.411	4707071.181	710.75	710.66	0.09	P.K.7+020
353	741667.674	4707074.418	711.22	711.09	0.13	P.K.7+040
354	741647.938	4707077.655	711.80	711.72	0.08	P.K.7+060
355	741628.202	4707080.892	712.52	712.60	-0.08	P.K.7+080
356	741608.466	4707084.129	713.24	713.39	-0.15	P.K.7+100
357	741588.729	4707087.366	714.02	714.11	-0.09	P.K.7+120
358	741568.993	4707090.603	714.73	714.82	-0.09	P.K.7+140
359	741549.257	4707093.840	715.57	715.62	-0.05	P.K.7+160
360	741529.520	4707097.077	716.25	716.39	-0.14	P.K.7+180
361	741509.784	4707100.314	717.03	717.15	-0.12	P.K.7+200
362	741490.048	4707103.551	717.83	717.86	-0.03	P.K.7+220
363	741470.325	4707106.872	718.52	718.54	-0.02	P.K.7+240
364	741450.630	4707110.351	719.30	719.42	-0.12	P.K.7+260
365	741430.964	4707113.988	720.16	720.25	-0.09	P.K.7+280
366	741411.327	4707117.782	720.91	721.08	-0.18	P.K.7+300
367	741391.721	4707121.733	721.24	721.27	-0.03	P.K.7+320
368	741372.148	4707125.840	721.11	721.22	-0.11	P.K.7+340
369	741352.607	4707130.104	721.07	721.18	-0.11	P.K.7+360
370	741333.102	4707134.524	721.02	721.09	-0.07	P.K.7+380
371	741313.633	4707139.100	720.77	720.96	-0.19	P.K.7+400
372	741294.201	4707143.832	720.55	720.96	-0.41	P.K.7+420
373	741274.807	4707148.719	720.46	720.89	-0.43	P.K.7+440
374	741255.453	4707153.761	720.63	720.82	-0.19	P.K.7+460
375	741236.140	4707158.958	720.82	720.94	-0.12	P.K.7+480
376	741216.869	4707164.309	721.00	721.04	-0.04	P.K.7+500
377	741197.642	4707169.814	721.17	721.29	-0.12	P.K.7+520
378	741178.459	4707175.472	721.36	721.42	-0.06	P.K.7+540
379	741159.322	4707181.284	721.65	721.59	0.06	P.K.7+560
380	741140.232	4707187.249	721.93	721.90	0.03	P.K.7+580
381	741121.186	4707193.351	722.28	722.34	-0.07	P.K.7+600
382	741102.147	4707199.477	722.71	722.79	-0.08	P.K.7+620
383	741083.109	4707205.603	723.38	723.50	-0.12	P.K.7+640
384	741064.070	4707211.730	724.10	724.21	-0.11	P.K.7+660
385	741045.031	4707217.856	724.78	724.87	-0.09	P.K.7+680
386	741025.993	4707223.982	725.55	725.59	-0.04	P.K.7+700
387	741006.954	4707230.108	726.18	726.23	-0.05	P.K.7+720
388	740987.915	4707236.234	726.92	726.88	0.03	P.K.7+740

Punto	X	Y	Z campo	Z carto	Dif.	PK
389	740968.877	4707242.360	727.66	727.63	0.03	P.K.7+760
390	740949.838	4707248.486	728.28	728.28	0.00	P.K.7+780
391	740930.799	4707254.612	728.57	728.44	0.13	P.K.7+800
392	740911.761	4707260.738	728.74	728.56	0.18	P.K.7+820
393	740892.722	4707266.864	728.89	728.77	0.12	P.K.7+840
394	740873.683	4707272.990	729.06	728.94	0.12	P.K.7+860
395	740854.645	4707279.117	729.11	728.93	0.18	P.K.7+880
396	740835.606	4707285.243	729.17	729.02	0.15	P.K.7+900
397	740816.567	4707291.369	729.27	729.18	0.09	P.K.7+920
398	740797.529	4707297.495	729.32	729.17	0.15	P.K.7+940
399	740778.490	4707303.621	729.33	729.22	0.11	P.K.7+960
400	740759.451	4707309.747	729.42	729.30	0.12	P.K.7+980
401	740740.413	4707315.873	729.36	729.21	0.15	P.K.8+000
402	740721.374	4707321.999	729.35	729.19	0.16	P.K.8+020
403	740702.335	4707328.125	729.42	729.31	0.11	P.K.8+040
404	740683.297	4707334.251	729.47	729.33	0.14	P.K.8+060
405	740664.258	4707340.377	729.44	729.16	0.27	P.K.8+080
406	740645.219	4707346.504	729.50	729.22	0.28	P.K.8+100
407	740626.181	4707352.630	729.51	729.42	0.09	P.K.8+120
408	740607.142	4707358.756	729.56	729.47	0.09	P.K.8+140
409	740588.103	4707364.882	729.62	729.34	0.28	P.K.8+160
410	740569.065	4707371.008	729.65	729.39	0.26	P.K.8+180
411	740550.026	4707377.134	729.70	729.56	0.14	P.K.8+200
412	740530.987	4707383.260	729.78	729.75	0.03	P.K.8+220
413	740511.949	4707389.386	729.94	729.87	0.07	P.K.8+240
414	740492.921	4707395.512	730.15	730.01	0.14	P.K.8+260
415	740473.936	4707401.637	730.62	730.72	-0.10	P.K.8+280
416	740454.998	4707408.267	731.35	731.59	-0.24	P.K.8+300
417	740436.107	4707414.834	732.62	732.83	-0.21	P.K.8+320
418	740417.264	4707421.538	734.23	734.07	0.16	P.K.8+340
419	740398.470	4707428.379	733.81	734.09	-0.28	P.K.8+360
420	740379.727	4707435.356	734.08	734.55	-0.47	P.K.8+380
421	740361.035	4707442.470	735.05	734.73	0.32	P.K.8+400
422	740342.395	4707449.720	735.91	735.64	0.27	P.K.8+420
423	740323.808	4707457.104	736.76	736.45	0.31	P.K.8+440
424	740305.276	4707464.624	737.59	737.20	0.39	P.K.8+460
425	740286.799	4707472.278	738.38	738.06	0.32	P.K.8+480
426	740268.378	4707480.067	739.26	738.87	0.39	P.K.8+500
427	740250.014	4707487.989	740.22	739.77	0.45	P.K.8+520
428	740231.708	4707496.045	741.00	740.60	0.40	P.K.8+540
429	740213.461	4707504.233	741.94	741.72	0.22	P.K.8+560
430	740195.274	4707512.554	742.89	742.52	0.37	P.K.8+580
431	740177.148	4707521.008	743.87	743.59	0.28	P.K.8+600
432	740159.085	4707529.592	744.58	744.30	0.28	P.K.8+620
433	740141.088	4707538.317	745.47	745.02	0.45	P.K.8+640
434	740123.216	4707547.294	747.00	746.38	0.62	P.K.8+660
435	740105.568	4707556.703	743.65	743.10	0.55	P.K.8+680
436	740088.256	4707566.714	747.99	747.63	0.36	P.K.8+700
437	740071.355	4707577.406	748.76	748.55	0.21	P.K.8+720

Punto	X	Y	Z campo	Z carto	Dif.	PK
438	740054.896	4707588.765	749.35	749.01	0.34	P.K.8+740
439	740038.903	4707600.773	749.95	749.73	0.22	P.K.8+760
440	740023.404	4707613.411	750.53	750.28	0.25	P.K.8+780
441	740008.423	4707626.659	751.10	750.80	0.30	P.K.8+800
442	739993.983	4707640.495	751.50	751.29	0.21	P.K.8+820
443	739980.108	4707654.898	751.53	751.32	0.21	P.K.8+840
444	739966.813	4707669.837	747.43	749.20	-1.77	P.K.8+860
445	739954.017	4707685.208	746.41	746.48	-0.07	P.K.8+880
446	739941.575	4707700.866	744.92	744.84	0.08	P.K.8+900
447	739929.328	4707716.678	745.52	743.83	1.69	P.K.8+920
448	739917.122	4707732.521	744.50	742.17	2.33	P.K.8+940
449	739904.852	4707748.315	739.99	741.93	-1.94	P.K.8+960
450	739892.437	4707763.995	740.30	741.91	-1.61	P.K.8+980
451	739879.801	4707779.497	743.55	743.73	-0.18	P.K.9+000
452	739866.866	4707794.751	743.54	743.36	0.18	P.K.9+020
453	739853.572	4707809.692	743.31	743.69	-0.38	P.K.9+040
454	739839.908	4707824.296	743.48	743.64	-0.16	P.K.9+060
455	739825.883	4707838.554	742.84	743.26	-0.42	P.K.9+080
456	739811.507	4707852.457	741.82	742.33	-0.51	P.K.9+100
457	739796.787	4707865.996	738.52	739.73	-1.21	P.K.9+120
458	739781.733	4707879.163	737.54	737.68	-0.14	P.K.9+140
459	739766.356	4707891.950	736.60	736.71	-0.11	P.K.9+160
460	739750.663	4707904.348	735.66	735.78	-0.12	P.K.9+180
461	739734.665	4707916.350	735.22	735.30	-0.08	P.K.9+200
462	739718.372	4707927.948	735.32	735.54	-0.22	P.K.9+220
463	739701.794	4707939.136	735.84	735.90	-0.06	P.K.9+240
464	739684.942	4707949.905	736.41	736.59	-0.18	P.K.9+260
465	739667.826	4707960.250	737.46	737.00	0.46	P.K.9+280
466	739650.457	4707970.164	736.39	736.51	-0.12	P.K.9+300
467	739632.845	4707979.641	734.75	735.34	-0.59	P.K.9+320
468	739615.002	4707988.674	733.86	733.03	0.83	P.K.9+340
469	739596.939	4707997.259	732.92	732.93	-0.01	P.K.9+360
470	739578.666	4708005.389	733.36	733.72	-0.36	P.K.9+380
471	739560.199	4708013.067	738.13	739.01	-0.88	P.K.9+400
472	739541.576	4708020.357	739.22	739.67	-0.45	P.K.9+420
473	739522.838	4708027.350	739.22	739.66	-0.44	P.K.9+440
474	739504.026	4708034.140	745.84	745.49	0.35	P.K.9+460
475	739485.176	4708040.824	747.20	746.87	0.33	P.K.9+480
476	739466.320	4708047.492	747.74	747.74	0.00	P.K.9+500
477	739447.484	4708054.215	750.46	750.30	0.16	P.K.9+520
478	739428.690	4708061.054	752.22	752.23	-0.01	P.K.9+540
479	739409.961	4708068.069	756.84	756.76	0.08	P.K.9+560
480	739391.322	4708075.322	755.77	756.25	-0.48	P.K.9+580
481	739372.802	4708082.871	754.46	754.69	-0.23	P.K.9+600
482	739354.430	4708090.775	750.96	751.00	-0.04	P.K.9+620
483	739336.235	4708099.077	751.44	751.21	0.23	P.K.9+640
484	739318.229	4708107.781	751.50	750.66	0.84	P.K.9+660
485	739300.421	4708116.883	746.57	745.87	0.70	P.K.9+680
486	739282.819	4708126.379	745.33	744.84	0.49	P.K.9+700

Punto	X	Y	Z campo	Z carto	Dif.	PK
487	739265.433	4708136.263	747.68	747.36	0.32	P.K.9+720
488	739248.271	4708146.532	752.03	751.83	0.20	P.K.9+740
489	739231.341	4708157.179	755.17	755.02	0.15	P.K.9+760
490	739214.652	4708168.200	756.01	756.67	-0.66	P.K.9+780
491	739198.207	4708179.581	760.13	760.00	0.13	P.K.9+800
492	739181.982	4708191.276	763.11	763.13	-0.02	P.K.9+820
493	739165.946	4708203.227	765.73	766.28	-0.55	P.K.9+840
494	739150.061	4708215.379	765.96	766.50	-0.54	P.K.9+860
495	739134.291	4708227.679	763.70	765.25	-1.55	P.K.9+880
496	739118.596	4708240.076	765.42	765.41	0.01	P.K.9+900
497	739102.937	4708252.517	762.25	762.20	0.05	P.K.9+920
498	739087.266	4708264.943	758.86	758.65	0.21	P.K.9+940
499	739071.523	4708277.279	758.75	758.61	0.14	P.K.9+960
500	739055.648	4708289.443	759.47	759.26	0.21	P.K.9+980
501	739039.580	4708301.352	758.92	758.69	0.23	P.K.10+000
502	739023.265	4708312.919	759.08	758.95	0.13	P.K.10+02
503	739006.670	4708324.080	759.37	759.32	0.05	P.K.10+04
504	738989.801	4708334.824	759.67	759.50	0.17	P.K.10+06
505	738972.669	4708345.142	759.86	759.81	0.05	P.K.10+08
506	738955.284	4708355.029	759.94	759.93	0.01	P.K.10+10
507	738937.658	4708364.478	759.83	759.71	0.12	P.K.10+12
508	738919.800	4708373.484	759.71	759.60	0.11	P.K.10+14
509	738901.724	4708382.041	758.90	759.04	-0.14	P.K.10+16
510	738883.439	4708390.143	758.87	758.98	-0.11	P.K.10+18
511	738864.966	4708397.805	758.64	758.79	-0.15	P.K.10+20
512	738846.346	4708405.108	759.37	759.93	-0.56	P.K.10+22
513	738827.625	4708412.142	758.28	759.01	-0.73	P.K.10+24
514	738808.838	4708419.003	757.79	757.94	-0.15	P.K.10+26
515	738790.024	4708425.787	757.53	757.42	0.11	P.K.10+28
516	738771.206	4708432.562	757.23	756.82	0.41	P.K.10+30
517	738752.389	4708439.337	756.89	756.49	0.40	P.K.10+32
518	738733.571	4708446.112	756.59	756.38	0.21	P.K.10+34
519	738714.754	4708452.887	756.27	755.93	0.34	P.K.10+36
520	738695.936	4708459.662	755.89	755.61	0.28	P.K.10+38
521	738677.119	4708466.437	755.52	755.01	0.51	P.K.10+40
522	738658.301	4708473.212	755.38	755.00	0.38	P.K.10+42
523	738639.484	4708479.987	755.47	755.06	0.41	P.K.10+44
524	738620.666	4708486.762	756.14	755.67	0.47	P.K.10+46
525	738601.849	4708493.537	755.78	755.94	-0.16	P.K.10+48
526	738583.031	4708500.312	751.56	753.84	-2.28	P.K.10+50
527	738564.214	4708507.087	758.54	758.74	-0.21	P.K.10+52
528	738545.401	4708513.875	759.79	759.92	-0.13	P.K.10+54
529	738526.604	4708520.707	760.56	760.00	0.56	P.K.10+56
530	738507.834	4708527.613	760.54	760.04	0.50	P.K.10+58
531	738489.103	4708534.624	760.53	760.92	-0.39	P.K.10+60
532	738470.424	4708541.772	760.87	761.00	-0.13	P.K.10+62
533	738451.810	4708549.087	761.04	761.15	-0.11	P.K.10+64
534	738433.274	4708556.599	760.78	760.77	0.01	P.K.10+66
535	738414.833	4708564.338	761.28	760.92	0.36	P.K.10+68

Punto	X	Y	Z campo	Z carto	Dif.	PK
536	738396.501	4708572.334	759.89	760.05	-0.16	P.K.10+70
537	738378.296	4708580.615	757.62	757.93	-0.31	P.K.10+72
538	738360.231	4708589.197	757.06	757.22	-0.16	P.K.10+74
539	738342.312	4708598.079	756.28	756.36	-0.08	P.K.10+76
540	738324.543	4708607.259	755.41	755.53	-0.12	P.K.10+78
541	738306.930	4708616.733	754.44	754.44	0.00	P.K.10+80
542	738289.477	4708626.500	753.54	753.61	-0.07	P.K.10+82
543	738272.189	4708636.556	752.61	752.76	-0.15	P.K.10+84
544	738255.071	4708646.898	751.91	751.94	-0.03	P.K.10+86
545	738238.128	4708657.525	751.27	751.45	-0.19	P.K.10+88
546	738221.365	4708668.432	751.08	751.13	-0.05	P.K.10+90
547	738204.785	4708679.618	751.08	751.06	0.02	P.K.10+92
548	738188.394	4708691.078	751.34	751.40	-0.06	P.K.10+94
549	738172.197	4708702.809	751.70	751.60	0.10	P.K.10+96
550	738156.197	4708714.809	752.27	752.73	-0.46	P.K.10+98
551	738140.400	4708727.074	757.19	757.00	0.19	P.K.11+00
552	738124.806	4708739.597	757.76	757.90	-0.14	P.K.11+02
553	738109.402	4708752.353	758.85	758.80	0.05	P.K.11+04
554	738094.170	4708765.314	759.73	759.74	-0.01	P.K.11+06
555	738079.092	4708778.453	760.41	760.26	0.15	P.K.11+08
556	738064.146	4708791.744	761.02	760.97	0.05	P.K.11+10
557	738049.313	4708805.159	761.64	761.29	0.35	P.K.11+12
558	738034.570	4708818.673	762.75	762.55	0.20	P.K.11+14
559	738019.896	4708832.263	763.28	763.62	-0.34	P.K.11+16
560	738005.268	4708845.902	767.34	767.01	0.33	P.K.11+18
561	737990.664	4708859.566	767.93	767.52	0.41	P.K.11+20
562	737976.061	4708873.232	767.77	767.76	0.01	P.K.11+22
563	737961.442	4708886.881	768.25	768.02	0.23	P.K.11+24
564	737946.788	4708900.492	768.49	768.19	0.30	P.K.11+26
565	737932.084	4708914.048	768.34	767.94	0.40	P.K.11+28
566	737917.311	4708927.530	768.43	767.94	0.49	P.K.11+30
567	737902.453	4708940.918	768.21	768.10	0.11	P.K.11+32
568	737887.493	4708954.193	767.57	767.32	0.25	P.K.11+34
569	737872.417	4708967.334	765.58	765.56	0.02	P.K.11+36
570	737857.208	4708980.322	765.78	765.77	0.00	P.K.11+38
571	737841.852	4708993.136	765.91	765.89	0.02	P.K.11+40
572	737826.344	4709005.765	766.80	766.79	0.01	P.K.11+42
573	737810.687	4709018.209	768.25	768.25	0.00	P.K.11+44
574	737794.882	4709030.464	768.51	768.51	0.00	P.K.11+46
575	737778.932	4709042.530	768.76	768.76	0.00	P.K.11+48
576	737762.839	4709054.405	769.00	768.99	0.01	P.K.11+50
577	737746.605	4709066.087	769.40	769.39	0.00	P.K.11+52
578	737730.233	4709077.574	769.62	769.61	0.00	P.K.11+54
579	737713.725	4709088.865	770.08	770.40	-0.32	P.K.11+56
580	737697.084	4709099.958	772.32	772.06	0.26	P.K.11+58
581	737680.311	4709110.851	773.03	772.73	0.30	P.K.11+60
582	737663.409	4709121.544	773.38	772.88	0.50	P.K.11+62
583	737646.381	4709132.033	773.75	773.64	0.11	P.K.11+64
584	737629.229	4709142.319	775.77	775.36	0.41	P.K.11+66



Punto	X	Y	Z campo	Z carto	Dif.	PK
585	737611.955	4709152.399	776.96	776.65	0.31	P.K.11+68
586	737594.562	4709162.273	777.84	777.62	0.22	P.K.11+70
587	737577.052	4709171.938	779.04	778.70	0.34	P.K.11+72
588	737559.429	4709181.393	780.43	780.22	0.20	P.K.11+74
589	737541.693	4709190.637	781.55	781.28	0.27	P.K.11+76
590	737523.850	4709199.670	781.73	781.54	0.19	P.K.11+78
591	737505.909	4709208.508	768.23	771.11	-2.88	P.K.11+80
592	737487.883	4709217.173	773.64	769.52	4.12	P.K.11+82
593	737469.785	4709225.686	778.44	778.72	-0.28	P.K.11+84
594	737451.628	4709234.071	778.56	778.76	-0.20	P.K.11+86
595	737433.422	4709242.350	777.98	778.16	-0.18	P.K.11+88
596	737415.179	4709250.546	777.75	777.93	-0.18	P.K.11+90
597	737396.908	4709258.683	777.06	777.24	-0.18	P.K.11+92
598	737378.622	4709266.783	775.85	775.84	0.01	P.K.11+94
599	737360.331	4709274.872	776.92	777.00	-0.09	P.K.11+96
600	737342.079	4709283.049	774.79	775.37	-0.58	P.K.11+98
601	737323.952	4709291.498	774.05	774.34	-0.30	P.K.12+00
602	737306.045	4709300.404	773.77	773.97	-0.20	P.K.12+02
603	737288.465	4709309.938	774.16	774.48	-0.32	P.K.12+04
604	737271.279	4709320.165	776.68	776.44	0.23	P.K.12+06
605	737254.516	4709331.072	777.43	777.41	0.02	P.K.12+08
606	737238.201	4709342.637	777.64	777.46	0.18	P.K.12+10
607	737222.300	4709354.766	778.20	778.05	0.15	P.K.12+12
608	737206.705	4709367.287	779.83	780.37	-0.54	P.K.12+14
609	737191.292	4709380.033	782.46	781.65	0.81	P.K.12+16
610	737175.930	4709392.839	782.58	782.25	0.33	P.K.12+18
611	737160.473	4709405.531	783.59	783.27	0.32	P.K.12+20
612	737144.772	4709417.919	783.87	783.67	0.20	P.K.12+22
613	737128.689	4709429.805	785.29	785.00	0.29	P.K.12+24
614	737112.121	4709441.005	784.45	784.62	-0.17	P.K.12+26
615	737095.075	4709451.463	785.54	785.96	-0.42	P.K.12+28
616	737077.640	4709461.261	784.96	785.06	-0.10	P.K.12+30
617	737059.952	4709470.594	782.45	784.06	-1.61	P.K.12+32
618	737042.132	4709479.673	780.68	781.54	-0.86	P.K.12+34
619	737024.301	4709488.732	777.18	777.75	-0.57	P.K.12+36
620	737006.659	4709498.152	775.70	774.99	0.71	P.K.12+38
621	736989.467	4709508.366	766.32	769.58	-3.26	P.K.12+40
622	736973.005	4709519.716	761.79	761.76	0.03	P.K.12+42
623	736957.411	4709532.231	761.17	761.27	-0.10	P.K.12+44
624	736942.767	4709545.847	760.43	760.87	-0.44	P.K.12+46
625	736929.151	4709560.491	759.93	759.92	0.01	P.K.12+48
626	736916.635	4709576.085	759.76	759.45	0.31	P.K.12+50
627	736905.286	4709592.547	759.97	760.05	-0.08	P.K.12+52
628	736895.163	4709609.791	760.34	760.40	-0.06	P.K.12+54
629	736886.288	4709627.710	760.49	760.53	-0.04	P.K.12+56
630	736878.390	4709646.083	760.48	760.53	-0.05	P.K.12+58
631	736871.023	4709664.677	761.14	761.06	0.08	P.K.12+60
632	736868.144	4709672.079	761.45	761.53	-0.08	P.K.12+60

Intervalo	Nº Puntos	Porcentaje
0.0-0.25	338	61.79
0.25-0.50	146	26.64
0.50-0.75	32	5.93
0.75-1.00	11	2.00
MAS DE 1	20	3.64

		34.70	662.00			PK 1840.00
<b>4. PERFILES TRANSVERSALES</b>				PK 1800.00		-49.31 671.50
<b>4.1. LISTADO</b>				-86.73 667.89		-39.98 671.82
				-76.50 668.33		-35.41 672.98
				-74.22 670.26		-34.37 673.13
				-55.10 671.59		-30.23 673.09
				-53.79 672.80		-25.51 673.31
				-52.01 672.86		-23.15 675.14
				-42.42 674.06		-21.29 675.54
				-40.90 675.57		-12.68 676.29
				-35.04 676.04		-10.97 674.81
				-28.64 678.92		-1.54 675.97
				-26.47 679.25		0.00 677.85
				-24.05 679.40		0.72 677.84
				-23.39 679.52		5.70 678.50
				-14.66 679.93		14.31 680.03
				-14.11 679.95		16.35 679.78
				-12.33 679.80		20.94 681.65
				-9.86 680.92		24.18 681.85
				-8.79 682.50		24.38 681.89
				-6.38 683.25		31.49 682.04
				-0.86 684.17		32.21 682.03
				0.00 685.50		33.39 681.68
				6.13 686.46		36.37 684.50
				7.72 688.14		36.62 685.68
				18.57 689.39		38.75 685.99
				19.93 690.13		51.67 687.09
				25.88 690.49		55.57 688.10
				26.84 691.21	PK 1860.00	-42.70 670.00
				30.08 691.97		-27.45 670.97
						-18.32 671.50
				PK 1820.00		-11.31 674.08
				-69.13 668.47		0.00 674.93
				-68.66 668.52		2.11 674.92
				-66.98 670.18		4.37 676.55
				-60.98 670.46		17.48 677.43
				-49.19 671.47		19.68 678.31
				-41.80 671.90		23.83 678.81
				-38.93 673.48	PK 1880.00	-35.73 669.04
				-38.80 673.50		-22.28 669.97
				-34.38 673.95		-7.51 671.38
				-26.81 674.29		0.00 671.93
				-24.45 676.00		1.31 671.90
				-22.97 676.22		7.04 674.33
				-20.02 676.44		14.51 675.07
				-15.52 676.97		22.29 675.52
				-9.86 677.86	PK 1900.00	-32.73 668.17
				-6.74 678.08		-21.69 668.82
				-6.02 678.29		-10.40 669.73
				-4.30 679.54		0.00 670.79
				-2.35 679.94		1.53 671.04
				0.00 680.54		8.90 671.83
				2.12 680.60		17.57 672.71
				3.14 680.69		
				8.50 680.96		
				9.49 681.00		
				10.70 680.81		
				18.56 683.70		
				21.38 684.15		
				22.67 685.32		
				24.58 686.08		
				25.58 686.23		
				28.91 686.29	PK 1920.00	
						-32.06 667.30

-19.29	668.07	-13.08	666.85	-9.64	665.42	-8.63	663.21
-7.24	669.00	-5.55	666.90	-5.50	665.66	-4.86	663.28
0.00	669.46	0.00	666.98	-2.43	665.88	0.00	663.46
1.96	669.84	2.01	667.15	-1.08	666.30	2.26	663.43
10.33	670.53	9.32	667.12	0.00	666.30	8.66	663.53
19.32	671.27	19.05	667.71	2.18	666.08	13.31	663.69
PK 1940.00		PK 2080.00		8.27	666.15	21.03	664.00
-31.72	666.99	-20.49	666.55	14.64	666.32	PK 2320.00	
-16.59	667.90	-16.88	666.60	20.77	666.37	-26.49	654.31
-6.14	668.72	-12.23	666.67	PK 2200.00		-23.06	654.34
0.00	669.08	-5.06	666.77	-18.52	664.78	-20.67	654.54
3.08	669.29	0.00	666.82	-14.45	664.95	-10.13	657.65
11.99	669.60	3.11	667.01	-10.90	665.12	0.00	661.87
19.83	670.10	8.38	667.01	-3.64	665.46	3.49	663.04
PK 1960.00		16.06	667.28	0.00	665.56	6.10	662.80
-32.62	666.81	20.70	667.47	3.24	665.73	14.40	663.01
-24.85	667.39	PK 2100.00		9.45	665.94	22.48	663.09
-16.01	667.70	-20.20	665.84	12.08	666.21	PK 2340.00	
-6.56	667.96	-18.11	666.48	13.88	666.60	-15.89	654.65
0.00	668.16	-16.71	666.45	16.13	666.14	-6.07	654.82
2.58	668.30	-10.04	666.52	19.15	666.36	0.00	655.11
10.43	668.54	-4.59	666.57	PK 2220.00		9.15	655.00
21.40	669.11	0.00	666.70	-18.24	664.63	22.09	655.36
PK 1980.00		1.84	666.82	-11.26	664.84	34.37	655.50
-31.71	666.05	8.03	666.94	-4.24	665.19	PK 2360.00	
-24.08	666.80	14.60	667.11	0.00	665.41	-14.28	654.70
-14.75	667.08	20.97	667.28	2.10	665.33	-6.34	655.00
-6.75	667.35	PK 2120.00		7.86	665.55	0.00	655.32
0.00	667.64	-20.10	665.63	15.12	665.84	3.20	655.21
2.68	667.71	-15.64	665.75	20.21	666.11	12.78	655.36
10.24	668.11	-12.08	665.94	PK 2240.00		20.92	655.51
21.69	668.86	-10.00	666.50	-16.95	664.54	PK 2380.00	
PK 2000.00		-7.16	666.67	-11.98	664.67	-13.75	654.90
-29.37	665.71	0.00	666.63	-8.47	664.79	-11.00	654.90
-15.29	667.17	4.12	666.84	-3.52	664.93	-4.80	654.95
-7.45	667.53	12.58	666.99	0.00	665.06	0.00	655.29
0.00	667.89	20.96	667.28	3.58	665.18	2.25	655.29
3.99	667.96	PK 2140.00		10.07	665.32	9.39	655.29
11.54	668.20	-19.20	665.68	14.81	665.49	14.65	655.50
20.59	668.60	-10.66	665.90	19.81	665.74	20.93	655.89
PK 2020.00		-4.75	666.04	PK 2260.00		PK 2400.00	
-27.55	666.18	0.00	666.22	-16.39	664.20	-13.76	655.28
-21.82	666.50	1.91	666.39	-9.45	664.40	-5.63	655.40
-14.79	667.08	3.34	666.97	-4.53	664.64	0.00	655.31
-7.19	667.84	7.46	666.58	0.00	664.84	3.15	655.31
0.00	668.23	14.05	666.82	2.63	664.79	4.09	655.11
2.92	668.40	19.26	666.99	8.54	664.91	5.26	655.33
8.64	668.66	PK 2160.00		16.32	665.08	13.10	655.50
14.45	669.05	-17.56	665.50	17.19	665.35	21.67	655.81
19.32	669.30	-16.43	665.53	18.32	665.37	PK 2420.00	
PK 2040.00		-15.36	666.09	20.35	666.03	-15.28	654.94
-24.24	667.34	-10.47	665.72	PK 2280.00		-11.56	654.97
-17.67	667.56	-5.21	665.89	-15.09	663.75	-6.18	654.97
-11.34	667.81	0.00	666.07	-8.04	664.00	0.00	655.36
-4.10	668.25	4.00	666.14	-5.19	664.19	2.78	655.28
0.00	668.25	11.74	666.36	0.00	664.41	8.65	655.36
2.84	668.25	14.95	666.82	2.23	664.35	19.92	655.50
7.32	668.03	17.44	666.70	9.31	664.35	21.42	655.59
9.07	668.81	21.02	666.89	17.21	664.40		
11.65	668.90			22.43	664.60		
18.73	668.95						
PK 2060.00		PK 2180.00		PK 2300.00		PK 2440.00	
-21.26	666.76	-18.09	665.10	-15.46	663.14	-13.48	653.28

**DOCUMENTO TÉCNICO PARA INFORMACIÓN PÚBLICA**

**Proyecto de Trazado. Acondicionamiento de la Carretera N-260. Eje Pirenaico, P.K. 449,600 al P.K. 463,600. Tramo: Túnel de Balupor – Fiscal.**

-11.55	653.50	-14.19	657.78	-12.63	661.24	-9.82	663.60
-8.86	653.80	-6.84	653.30	-5.57	661.17	-3.14	663.50
-7.18	654.87	0.00	653.20	0.00	661.20	0.00	663.53
-3.60	655.00	3.93	653.50	5.73	661.07	3.81	663.43
0.00	655.25	10.16	653.52	9.06	661.20	9.87	663.35
7.07	655.29	20.95	653.66	11.47	661.41	18.26	663.21
12.96	655.29	PK 2600.00		16.36	661.05	PK 2880.00	
20.72	655.29	-15.23	657.74	21.75	660.54	-17.80	664.84
PK 2460.00		-6.27	657.71	PK 2740.00		-17.19	665.01
-12.91	654.20	0.00	657.74	-18.93	661.57	-15.79	664.40
-10.31	653.42	4.86	657.65	-10.95	661.69	-14.88	664.55
-7.15	653.04	6.07	657.74	-5.33	661.76	-13.17	664.45
-2.23	653.97	10.56	656.27	0.00	661.79	-12.73	664.11
0.00	654.50	19.99	653.97	4.09	661.62	-9.65	664.09
5.41	653.71	20.49	653.97	9.95	661.69	-4.21	663.97
9.73	653.34	PK 2620.00		19.97	661.54	0.00	663.97
11.40	653.55	-18.50	658.01	PK 2760.00		2.25	663.89
15.78	654.90	-15.90	658.01	-17.29	662.15	10.26	663.62
20.62	654.95	-9.33	657.98	-10.67	662.17	20.05	663.60
PK 2480.00		-1.78	657.94	-7.21	662.17	PK 2900.00	
-13.51	654.73	0.00	658.05	-4.04	662.17	-17.95	665.21
-9.21	654.65	2.73	657.86	0.00	662.20	-12.88	665.06
-6.36	654.58	12.85	657.86	2.84	662.10	-11.94	665.33
-2.21	654.19	22.97	657.84	8.49	661.98	-10.63	664.82
0.00	654.32	PK 2640.00		13.00	661.98	-8.67	664.34
2.94	654.27	-19.71	658.21	20.10	661.98	-6.66	664.48
14.19	654.53	-12.49	658.23	PK 2780.00		-2.60	664.34
15.49	654.50	-5.35	658.26	-16.20	662.48	0.00	664.34
18.65	654.00	0.00	658.31	-9.77	662.41	3.20	664.21
20.86	654.29	4.05	658.33	-4.16	662.41	7.80	664.04
PK 2500.00		15.64	658.18	0.00	662.41	15.54	663.97
-12.95	654.32	23.16	658.18	3.93	662.36	20.00	663.90
-6.65	654.47	PK 2660.00		10.14	662.26	PK 2920.00	
-4.54	654.47	-18.72	658.61	18.88	662.16	-18.60	665.65
0.00	654.64	-9.67	658.63	PK 2800.00		-12.98	665.28
3.21	654.54	-3.22	658.65	-17.83	662.76	-7.82	665.11
9.08	654.35	0.00	658.78	-9.10	662.69	-6.48	665.43
15.53	654.39	3.26	658.63	-3.86	662.66	-5.01	665.02
17.21	654.25	10.76	658.53	0.00	662.69	-2.41	664.77
20.62	654.32	20.76	658.38	3.47	662.59	0.00	664.73
PK 2520.00		25.02	658.38	9.72	662.51	4.84	664.43
-13.94	653.64	PK 2680.00		18.23	662.39	10.26	664.41
-9.15	653.71	-18.54	658.94	PK 2820.00		18.43	664.38
-3.07	653.59	-10.43	658.97	-16.60	662.98	PK 2940.00	
0.00	653.84	-4.42	658.92	-11.54	662.85	-18.18	666.22
8.80	653.76	0.00	659.02	-5.10	662.78	-12.19	665.59
20.74	654.00	3.83	658.92	0.00	662.81	-6.64	665.44
PK 2540.00		11.02	658.89	3.65	662.73	-2.65	665.39
-13.65	653.09	22.30	658.75	11.34	662.61	-2.21	665.44
-6.59	653.21	PK 2700.00		18.62	662.59	0.00	665.13
0.00	653.31	-20.07	659.54	PK 2840.00		1.41	665.10
3.45	653.38	-10.79	659.37	-17.04	663.41	4.98	665.03
11.51	653.40	-3.20	659.30	-10.92	663.24	9.37	664.78
17.68	654.29	0.00	659.33	-4.57	663.24	13.17	664.76
21.11	654.31	4.16	659.28	0.00	663.22	18.39	664.74
PK 2560.00		11.38	659.20	3.89	663.07		
-14.21	652.91	16.41	659.06	10.53	663.04		
-4.96	653.11	22.78	658.94	18.90	662.90		
0.00	653.28						
5.21	653.28						
14.89	653.50						
21.06	653.54						
PK 2580.00		PK 2720.00		PK 2860.00		PK 2960.00	
-20.20	657.86	-20.40	661.15	-18.03	663.91	-18.25	667.92



-15.00	667.48	-15.33	670.96	-26.89	673.27	-43.12	674.96
-9.65	666.51	-12.58	672.70	-24.93	673.13	-36.03	674.63
-3.61	666.00	-9.58	670.57	-21.85	673.40	-27.95	674.53
0.00	666.05	0.00	669.23	-16.75	673.02	-21.68	674.19
3.04	665.70	5.99	668.41	-10.44	670.95	-18.00	674.29
4.53	665.66	13.83	667.88	-2.12	670.66	-14.54	674.15
5.13	665.87	20.01	667.52	0.00	670.57	-11.77	673.76
6.69	665.41	PK 3080.00		3.64	670.29	-9.24	674.02
8.40	665.53	-21.36	671.78	8.79	670.07	-3.81	674.02
9.32	665.24	-17.98	671.30	16.48	669.76	-2.08	672.96
13.10	665.19	-15.38	672.85	22.95	669.67	0.00	672.58
18.71	664.88	-13.33	670.29	25.14	670.19	3.27	672.48
PK 2980.00		0.00	669.53	26.21	669.98	7.12	672.45
-18.38	668.42	7.09	669.19	27.18	669.98	11.41	672.33
-15.30	668.35	13.79	668.56	28.78	669.79	16.52	672.14
-10.21	667.72	17.61	668.13	32.60	669.57	21.90	671.93
-4.00	667.11	20.59	668.01	35.56	669.69	27.91	671.88
0.00	666.97	PK 3100.00		36.43	669.47	30.80	671.81
2.98	666.70	-21.22	673.02	40.59	669.30	31.82	672.00
9.91	666.26	-16.09	672.67	43.76	669.21	33.81	671.95
10.44	666.45	-11.61	671.64	44.92	669.18	35.60	671.13
12.07	665.56	-7.65	671.16	46.04	669.26	37.30	670.72
13.80	665.80	0.00	669.87	48.37	669.21	40.23	670.32
14.37	665.68	2.75	669.29	PK 3180.00		43.52	670.20
18.55	665.51	9.82	668.76	-49.72	676.61	47.69	670.03
PK 3000.00		18.03	668.38	-32.52	674.83	52.24	669.88
-18.71	671.14	22.59	668.14	-25.58	674.21	PK 3220.00	
-17.83	670.97	PK 3120.00		-20.82	673.54	-66.92	678.99
-15.01	672.16	-23.30	673.17	-18.11	673.56	-62.28	678.27
-12.53	668.87	-18.96	673.26	-16.21	673.71	-55.98	677.93
-5.71	668.09	-10.95	670.40	-11.40	671.93	-43.59	676.92
0.00	667.61	-7.45	670.35	-5.51	671.35	-34.48	676.20
4.03	667.13	0.00	670.26	0.00	671.26	-24.68	674.71
10.30	666.54	3.38	669.73	4.96	671.11	-20.40	674.38
14.06	666.47	7.53	669.22	10.06	670.80	-14.43	674.28
14.52	666.64	10.65	669.01	15.63	670.60	-12.55	674.26
16.41	666.57	14.78	668.86	19.19	670.58	-10.21	673.93
17.75	666.32	21.69	668.57	20.20	671.44	-6.64	674.26
18.28	665.98	PK 3140.00		22.46	671.37	-2.66	674.14
PK 3020.00		-23.08	673.30	27.34	671.18	0.00	674.17
-19.57	671.21	-18.60	672.53	34.22	670.87	2.38	672.74
-15.64	670.97	-11.77	671.19	39.46	670.41	7.49	672.26
-12.84	672.30	-7.29	670.66	46.03	670.20	13.45	672.04
-6.97	668.65	0.00	670.62	48.05	670.15	18.50	671.80
0.00	668.19	2.42	670.30			25.09	671.56
2.90	667.25	5.90	669.80			28.74	671.42
12.86	666.81	9.25	669.61			35.14	671.20
18.24	666.40	12.85	669.41			39.48	671.06
18.90	666.67	15.07	669.27			41.73	671.08
PK 3040.00		19.08	669.13			43.90	670.55
-20.71	674.36	21.70	668.91			45.92	670.27
-18.44	672.22					49.14	670.12
-13.71	670.96					54.02	669.81
-11.26	672.55					63.15	669.71
-7.84	669.50						
0.00	668.82						
8.50	667.31						
18.41	666.95						
20.91	666.78						
PK 3060.00		PK 3160.00		PK 3200.00		PK 3240.00	
-20.61	671.05	-37.93	675.82	-52.36	675.78	-67.25	679.62

-61.50	679.16	-29.85	674.27	-17.63	671.99	-15.57	673.50
-59.98	678.20	-26.90	674.30	-12.78	671.65	-10.71	672.06
-54.54	677.72	-24.37	674.60	-5.25	670.95	-6.18	671.73
-47.74	677.36	-22.53	674.14	0.00	670.60	0.00	671.52
-44.23	676.16	-20.65	673.71	3.72	670.57	3.06	671.44
-39.81	675.92	-19.00	672.89	8.92	670.26	7.52	671.20
-35.63	675.56	-18.23	672.94	16.30	670.07	13.19	671.10
-32.61	675.32	-12.90	672.56	25.08	669.83	19.96	670.96
-30.47	674.84	-5.10	671.96	PK 3420.00		PK 3540.00	
-26.13	674.50	0.00	671.82	-22.05	672.09	-19.65	673.73
-21.75	674.38	2.79	671.71	-9.43	670.77	-15.37	673.54
-16.48	674.26	8.43	671.47	-5.81	670.56	-12.14	672.86
-13.77	674.36	16.87	671.20	0.00	670.30	-8.78	672.38
-11.28	674.15	25.04	671.03	2.76	670.22	-7.86	672.05
-10.54	674.07	PK 3320.00		8.65	670.03	0.00	671.79
-6.78	673.01	-24.30	673.14	14.52	669.91	2.17	671.76
0.00	672.41	-23.14	672.85	19.26	669.79	5.89	671.52
3.18	672.16	-19.71	672.32	22.01	669.82	11.04	671.40
7.98	671.97	-11.99	671.87	26.11	669.70	16.25	671.26
14.02	671.76	-4.91	671.36	PK 3440.00		20.25	671.16
19.89	671.47	0.00	671.20	-24.59	672.58	PK 3560.00	
22.10	671.35	3.18	671.15	-18.07	671.43	-18.94	673.22
26.28	670.99	9.16	670.93	-11.35	670.76	-15.64	672.94
32.22	670.84	15.25	670.69	-5.38	670.47	-13.65	672.82
PK 3260.00		23.04	670.52	0.00	670.21	-11.26	672.22
-54.94	678.83	26.32	670.43	2.26	670.21	-4.43	671.93
-39.88	675.99	PK 3340.00		5.08	670.09	0.00	671.67
-30.62	675.18	-23.99	672.25	9.74	669.97	2.40	671.78
-23.19	674.46	-17.25	671.82	15.10	669.92	7.26	671.67
-18.30	674.46	-9.92	671.34	25.12	669.68	12.42	671.55
-15.24	674.30	-3.67	671.10	PK 3460.00		19.15	671.35
-8.60	673.96	0.00	670.94	-21.01	671.92	PK 3580.00	
-6.00	672.57	5.08	670.82	-13.34	671.06	-18.66	673.04
0.00	672.57	10.09	670.60	-9.22	671.11	-14.37	672.71
4.28	672.08	17.30	670.41	-4.51	670.75	-11.39	672.08
10.98	671.79	25.22	670.19	0.00	670.37	-4.91	671.96
16.88	671.50	PK 3360.00		2.51	670.34	0.00	671.85
24.94	671.12	-22.06	672.24	6.93	670.15	2.76	671.82
PK 3280.00		-17.71	672.05	12.42	670.05	7.48	671.65
-45.88	679.37	-9.71	671.74	17.38	669.98	13.05	671.63
-40.11	676.01	-4.51	671.45	23.92	669.93	18.75	671.56
-32.17	674.90	0.00	671.31	PK 3480.00		PK 3600.00	
-27.02	674.59	2.40	671.16	-21.97	673.77	-17.79	672.71
-23.09	674.38	8.57	670.83	-15.07	672.05	-14.29	672.49
-20.13	674.45	15.41	670.51	-10.75	671.38	-11.34	672.35
-16.22	674.15	21.64	670.23	-5.49	671.14	-7.13	672.14
-13.02	673.33	26.74	670.18	0.00	670.83	0.00	672.00
-11.87	672.45	PK 3380.00		3.21	670.68	2.79	671.97
-9.07	672.42	-21.17	672.72	7.28	670.54	7.92	671.85
-4.25	672.23	-17.38	672.34	12.63	670.39	12.28	671.82
0.00	672.21	-11.10	672.03	22.93	670.15	17.40	671.78
5.33	671.68	-5.03	671.33	PK 3500.00		PK 3620.00	
11.52	671.44	0.00	671.05	-20.32	672.28	-16.66	672.82
17.24	671.29	1.89	671.07	-17.25	671.99	-15.14	672.60
22.37	671.24	7.88	670.78	-12.76	671.46	-10.10	672.41
		14.96	670.45	-8.50	671.13	-5.18	672.29
		20.48	670.25	-5.42	670.99	0.00	672.13
		26.09	670.01	0.00	671.21	3.27	672.27
				2.94	671.10	7.30	672.10
				6.71	671.08	13.12	671.98
				11.88	670.94	18.60	671.98
				16.15	670.77		
				22.45	670.60		
PK 3300.00		PK 3400.00		PK 3520.00		PK 3640.00	
-35.96	676.00	-21.30	672.13	-19.92	673.88	-17.55	673.40

-14.85	673.01	-12.91	673.57	-12.94	674.09	-17.11	675.01
-12.97	672.89	-9.29	673.35	-7.73	674.02	-12.35	674.93
-9.78	672.70	-4.27	673.04	-3.51	673.97	-7.49	674.91
-4.66	672.56	0.00	673.07	0.00	674.02	-3.01	674.72
0.00	672.42	3.70	672.83	3.94	673.85	0.00	674.70
3.06	672.53	8.70	672.66	9.46	673.73	1.56	674.62
6.63	672.42	13.74	672.63	14.87	673.66	3.25	675.46
11.99	672.42	20.01	672.59	21.04	673.66	6.31	676.20
18.00	672.27	PK 3780.00		PK 3900.00		7.04	676.18
PK 3660.00		-18.56	673.67	-21.84	674.28	8.80	675.08
-17.41	673.07	-11.78	673.55	-14.61	674.09	12.69	674.96
-11.53	672.85	-7.19	673.46	-9.09	673.97	17.80	674.98
-5.04	672.61	-3.24	673.41	-3.73	673.90	PK 4000.00	
0.00	672.50	0.00	673.46	0.00	674.05	-22.90	675.19
3.83	672.59	4.73	672.90	3.57	673.88	-16.50	675.16
8.99	672.40	9.03	672.81	8.02	673.78	-11.96	675.16
14.44	672.38	13.84	672.66	12.85	673.81	-6.74	675.12
19.90	672.26	19.54	672.69	20.67	673.66	-2.44	675.07
PK 3680.00		PK 3800.00		PK 3920.00		0.00	675.60
-17.43	672.58	-20.19	673.81	-22.54	674.71	1.37	676.03
-13.20	672.43	-14.40	673.67	-13.87	674.19	4.46	675.55
-8.25	672.36	-8.08	673.57	-8.99	674.21	6.24	675.26
-3.70	672.34	-3.64	673.62	-3.56	674.19	9.73	675.09
0.00	672.39	0.00	673.65	0.00	674.24	13.56	675.14
2.34	672.12	2.75	673.43	2.68	674.04	18.17	675.07
7.58	672.03	9.14	673.21	6.82	673.92	PK 4020.00	
13.05	672.00	15.70	673.07	11.99	674.04	-22.30	675.35
18.94	671.88	20.35	672.97	14.62	673.88	-15.73	675.40
PK 3700.00		PK 3820.00		16.71	674.38	-9.10	675.40
-16.60	672.65	-20.02	673.90	19.87	675.03	-3.82	675.59
-10.43	672.42	-13.55	673.62	PK 3940.00		0.00	675.69
-4.16	672.34	-8.75	673.59	-20.42	674.75	3.05	675.49
0.00	672.42	-4.24	673.57	-12.81	674.48	8.77	675.45
2.68	672.18	0.00	673.62	-8.40	674.46	13.08	675.49
8.05	672.08	3.14	673.50	-3.55	674.39	17.92	675.42
12.57	672.06	10.16	673.45	0.00	674.44	PK 4040.00	
18.88	671.98	19.27	673.30	3.84	674.27	-22.73	675.77
PK 3720.00		PK 3840.00		7.83	674.12	-17.37	675.67
-17.04	673.16	-21.06	674.05	9.16	673.96	-10.94	675.72
-12.31	672.69	-14.70	673.89	11.16	674.58	-4.68	675.84
-8.65	672.69	-8.98	673.82	12.39	674.70	0.00	675.87
-4.54	672.69	-4.35	673.82	13.88	675.39	3.16	675.79
0.00	672.69	0.00	673.82	15.97	674.67	8.10	675.67
2.48	672.54	3.14	673.62	18.61	674.63	14.04	675.65
7.51	672.40	9.13	673.43	PK 3960.00		18.45	675.67
14.20	672.28	13.17	673.34	-21.87	674.86	PK 4060.00	
19.81	672.25	20.20	673.41	-17.42	674.81	-22.49	675.95
PK 3740.00		PK 3860.00		-13.41	674.69	-15.86	675.97
-16.67	673.47	-21.42	674.19	-7.97	674.69	-9.96	676.05
-12.89	673.16	-15.02	674.11	-3.42	674.67	-3.79	676.05
-9.08	672.99	-10.23	673.95	0.00	674.67	0.00	676.05
-4.58	672.92	-5.50	673.92	4.71	674.35	4.38	675.97
0.00	672.88	0.00	673.88	7.23	674.78	11.05	675.93
2.75	672.59	3.45	673.71	9.12	675.19	17.54	675.78
6.91	672.44	9.28	673.54	10.14	674.98	PK 4080.00	
11.82	672.37	15.04	673.49	10.94	675.00	-22.46	676.11
16.77	672.35	21.14	673.44	13.99	674.88	-13.35	676.02
20.56	672.37			18.51	674.86	-6.68	676.00
						0.00	676.21
						4.55	676.00
						8.29	675.88
						18.07	675.83
PK 3760.00		PK 3880.00		PK 3980.00		PK 4100.00	
-17.51	673.59	-21.16	674.21	-22.75	675.10	-23.30	676.23

-12.67	676.12	-13.53	673.36	-18.55	681.70	-16.88	684.46
-5.39	676.30	-5.46	673.34	-15.96	681.65	-9.76	685.03
0.00	676.40	0.00	673.32	-11.85	681.91	-3.90	685.44
3.18	676.21	6.64	673.01	-4.96	682.13	-0.66	685.68
10.17	676.19	10.16	673.01	0.00	682.54	0.00	686.09
14.46	676.10	15.80	672.96	2.95	682.63	2.03	686.40
18.82	676.34	PK 4260.00		11.15	683.30	5.71	687.47
PK 4120.00		-19.37	673.32	18.25	684.06	6.70	687.54
-25.41	676.56	-8.11	673.28	PK 4380.00		7.05	687.57
-17.02	676.59	-1.26	673.21	-20.72	681.95	7.86	687.59
-11.62	676.00	0.00	673.55	-15.25	682.04	11.94	687.69
-5.75	675.57	3.47	674.50	-6.47	682.45	12.28	687.69
-2.77	675.30	11.82	676.71	0.00	682.79	13.28	687.59
0.00	674.80	13.49	676.44	4.22	682.98	14.94	687.66
1.35	674.15	17.05	676.50	11.50	683.69	17.23	687.90
8.39	674.65	PK 4280.00		16.66	684.00	20.01	688.50
10.84	674.50	-25.00	674.70	PK 4400.00		24.54	689.55
15.91	674.26	-21.66	674.80	-21.49	682.32	PK 4480.00	
PK 4140.00		-17.89	675.44	-15.99	682.46	-24.84	683.38
-20.35	674.88	-10.08	676.25	-9.56	682.75	-19.63	683.81
-15.60	674.00	-2.73	677.00	-2.90	683.20	-13.32	684.60
-8.45	672.27	0.00	677.46	0.00	683.35	-8.27	685.22
0.00	670.77	1.35	677.36	3.41	683.54	-6.37	685.46
1.63	670.96	4.04	677.50	6.73	683.63	-3.27	686.04
8.49	670.79	10.28	677.69	9.44	683.82	0.00	686.71
15.59	670.64	20.54	678.02	13.00	684.30	2.92	687.37
PK 4160.00		PK 4300.00		16.97	686.12	4.42	687.71
-20.85	671.00	-29.81	677.52	PK 4420.00		5.08	687.71
0.00	670.62	-18.70	677.93	-21.66	682.89	9.09	687.80
7.52	670.59	-3.39	678.47	-14.22	683.20	9.86	687.80
14.25	670.54	0.00	678.74	-8.55	683.53	15.65	687.90
PK 4180.00		5.25	678.79	-3.24	683.84	31.74	690.43
-18.08	671.02	14.94	678.92	0.00	684.16	PK 4500.00	
-13.54	671.00	17.52	679.02	2.11	684.27	-26.98	683.40
0.00	670.59	22.24	681.77	5.29	684.39	-20.57	682.30
3.47	670.56	PK 4320.00		6.72	684.99	-10.07	685.51
14.42	670.42	-28.55	678.38	11.51	686.57	-6.76	686.83
PK 4200.00		-13.26	678.82	14.45	687.38	-3.53	686.64
-20.37	671.01	0.00	679.50	15.27	687.43	-0.62	687.83
-14.88	671.50	1.25	679.44	PK 4440.00		0.00	687.91
-7.28	672.00	7.87	682.15	-23.25	683.53	1.89	687.66
0.00	672.13	9.08	681.96	-15.31	683.98	3.13	687.78
3.74	672.28	11.09	682.07	-9.32	684.32	6.96	687.80
9.86	672.49	17.99	682.56	-2.80	684.75	11.79	687.80
13.24	671.95	PK 4340.00		0.00	684.99	12.92	687.80
15.03	672.00	-24.25	679.13	1.66	685.10	24.91	688.42
PK 4220.00		-17.04	679.20	2.17	685.27		
-20.24	672.57	-12.33	679.44	6.22	685.44		
-16.86	672.42	-11.09	679.46	8.97	687.30		
-10.17	673.02	-7.99	681.11	10.65	687.35		
-5.45	673.45	-5.12	682.43	11.52	687.45		
-2.71	673.67	-3.13	682.04	15.68	687.47		
0.00	673.48	0.00	682.12				
1.85	673.08	3.36	682.26				
7.99	673.15	10.10	682.71				
14.07	673.02	17.34	683.36				
PK 4240.00		PK 4360.00		PK 4460.00		PK 4520.00	
-19.53	673.39	-20.45	682.01	-22.67	683.93	-22.98	686.37



-18.19	686.58	-18.78	688.73	-28.43	688.02	-69.26	685.04
-11.89	686.80	-13.10	689.31	-20.92	688.55	-67.86	685.78
-5.61	686.94	-8.09	689.74	-14.02	688.98	-66.08	685.81
-4.45	687.30	-5.09	690.07	-9.14	689.44	-59.86	685.09
-2.35	687.51	-4.78	690.33	-5.52	689.75	-55.33	686.07
0.00	687.83	-2.87	690.10	-4.83	690.20	-50.15	685.88
0.65	687.73	-1.99	688.35	-2.99	689.99	-44.18	686.57
1.36	687.80	-1.14	688.66	-1.56	688.57	-35.82	687.07
1.92	687.83	0.00	688.69	0.00	689.01	-31.45	687.12
5.67	687.90	4.77	688.66	0.80	688.93	-27.01	687.65
6.45	687.85	5.81	688.59	5.13	688.96	-20.12	688.13
7.77	687.61	6.26	688.47	5.76	688.96	-12.86	688.39
10.09	687.75	8.42	691.27	7.04	688.81	-6.15	688.80
12.02	687.13	9.66	691.36	7.63	690.80	-2.50	688.94
15.75	687.23	10.39	691.15	9.79	690.92	-1.24	688.89
19.37	685.65	11.36	691.08	15.34	691.04	0.00	689.04
23.28	686.70	14.70	691.17	24.51	691.40	1.98	689.11
26.13	688.30	20.80	691.41	35.30	691.73	6.20	689.13
28.25	688.52	27.68	691.74	38.57	691.68	6.95	689.13
PK 4540.00		34.97	692.15	39.76	692.83	7.65	688.92
-21.03	687.54	PK 4600.00		45.44	692.88	8.56	689.94
-15.77	687.88	-27.01	688.30	53.76	692.90	10.32	689.63
-13.47	688.09	-19.47	688.85	PK 4640.00		11.20	689.54
-8.77	688.36	-13.20	689.42	-61.18	685.52	13.75	689.68
-5.02	688.69	-8.20	690.02	-48.58	686.47	17.51	689.85
-4.16	688.91	-5.58	690.09	-41.31	687.05	26.26	690.21
-2.39	688.79	-5.13	690.43	-32.07	687.72	PK 4680.00	
-1.39	687.66	-2.99	690.26	-27.22	688.10	-70.94	684.25
0.00	688.17	-1.75	688.52	-21.21	688.55	-65.99	684.48
1.07	688.05	-0.78	688.88	-15.93	688.96	-60.73	684.70
5.10	688.19	0.00	688.88	-13.37	689.73	-55.73	685.11
5.81	688.26	0.51	688.83	-12.49	689.44	-48.58	685.61
7.13	688.48	4.88	688.78	-12.04	690.16	-41.87	686.01
9.24	688.81	6.14	688.83	-10.48	689.95	-36.82	686.35
9.45	688.71	6.75	688.73	-7.54	689.49	-36.27	686.85
11.14	688.57	7.28	690.91	-2.71	689.25	-33.15	687.23
12.45	688.55	9.60	691.17	-0.73	689.28	-28.86	686.68
14.88	688.09	10.92	691.17	0.00	689.33	-23.02	687.04
18.75	688.00	15.67	691.46	1.33	689.15	-18.28	687.59
25.21	687.90	23.37	691.72	5.53	689.25	-16.92	687.78
29.46	687.90	28.25	692.01	6.27	689.22	-12.23	688.00
PK 4560.00		38.41	692.99	7.27	689.22	-6.36	688.43
-21.09	688.18			8.17	690.54	-2.48	688.48
-15.65	688.46			9.85	690.56	-1.30	688.88
-9.87	688.97			12.46	690.27	0.00	688.96
-5.37	689.37			17.36	690.37	1.71	688.96
-3.96	689.85			26.84	690.71	2.88	688.98
-2.20	687.99			36.86	691.06	7.04	689.00
-1.03	688.39			45.41	691.76	7.78	689.00
0.00	688.35			47.12	692.28	8.51	688.72
0.62	688.27			48.42	692.09	9.14	689.48
4.78	688.32					10.76	689.46
5.90	688.35					11.48	688.96
6.35	688.25					14.48	689.22
8.26	690.57					20.53	689.46
10.04	690.64						
14.92	690.57						
19.64	690.83						
26.37	690.95						
30.94	691.12						
PK 4580.00		PK 4620.00		PK 4660.00		PK 4700.00	
-22.71	688.45	-37.21	687.48	-71.96	684.61	-65.10	684.15

-59.21	684.34	-25.17	685.45	-20.50	685.21	-17.98	685.03
-50.89	684.86	-16.22	685.80	-15.94	685.49	-12.92	685.28
-45.47	685.21	-8.09	686.20	-12.10	685.73	-7.14	685.45
-43.38	685.26	-3.71	686.29	-6.23	685.99	-4.24	685.50
-40.85	685.64	0.00	686.51	-1.16	686.13	-1.76	686.67
-37.09	685.80	1.33	686.34	0.00	686.25	0.00	686.70
-30.31	686.39	2.26	686.76	1.38	686.08	2.05	686.74
-25.97	686.55	3.22	686.72	2.66	686.32	4.62	686.55
-25.71	686.81	5.34	688.01	5.82	686.67	5.47	686.55
-22.97	686.83	6.32	688.03	7.71	687.26	6.19	686.65
-14.71	687.94	10.71	688.08	8.25	687.28	10.63	686.72
-13.50	687.68	11.89	688.08	9.06	687.30	11.51	686.74
-7.71	687.77	13.38	687.00	13.34	687.35	12.63	686.20
-1.36	687.82	15.49	687.19	14.42	687.35	13.27	686.62
0.00	687.85	20.78	687.47	15.46	687.23	15.20	687.80
3.12	688.55	24.63	687.47	16.28	686.88	17.42	687.85
3.84	688.55	PK 4760.00		17.64	686.97	20.85	687.99
8.09	688.62	-29.10	685.10	20.76	687.35	25.37	687.99
8.76	688.57	-22.12	685.29	26.55	687.61	PK 4880.00	
9.69	688.41	-15.21	685.52	PK 4820.00		-25.81	684.84
10.27	689.21	-9.34	685.78	-25.93	685.02	-19.37	685.02
11.41	689.35	-2.97	686.04	-21.51	685.09	-13.10	685.12
12.33	689.37	0.00	686.28	-16.20	685.33	-7.55	685.31
14.51	688.67	0.91	686.11	-13.52	685.35	-4.75	685.47
17.05	688.71	2.21	686.06	-7.69	685.52	-3.28	685.42
20.28	688.93	3.46	686.67	-1.74	685.77	-2.35	685.68
PK 4720.00		4.76	686.60	0.00	685.85	0.00	686.51
-48.26	684.48	6.05	687.66	1.09	685.59	1.93	686.32
-44.86	684.77	6.78	687.64	2.83	685.94	2.65	686.34
-36.00	685.31	7.66	687.71	4.73	685.82	3.79	686.34
-28.83	685.82	11.88	687.83	7.84	687.02	8.39	686.48
-21.78	686.08	13.28	687.78	8.91	687.11	9.05	686.48
-15.37	686.20	14.96	686.93	13.09	687.14	9.82	686.11
-11.90	686.29	17.87	687.03	14.05	687.11	10.73	686.65
-6.08	686.53	22.61	687.19	15.18	687.07	12.59	687.47
-4.61	686.74	26.73	687.26	16.06	686.74	13.42	687.26
-0.49	686.72	PK 4780.00		17.70	686.76	13.86	686.69
0.00	686.91	-28.08	684.93	21.88	686.90	17.86	686.86
0.86	687.28	-20.01	685.28	26.95	687.16	24.07	687.28
2.35	687.09	-15.42	685.42	PK 4840.00		PK 4900.00	
3.67	688.27	-8.59	685.73	-24.91	685.27	-26.60	684.75
4.32	688.24	-3.08	686.01	-16.88	685.39	-22.33	684.73
5.04	688.32	0.00	686.18	-9.95	685.62	-16.28	684.94
9.32	688.41	2.40	685.96	-3.37	685.76	-10.94	685.13
9.99	688.41	3.15	686.22	-0.95	685.65	-5.70	685.22
10.77	688.29	5.61	686.57	0.00	686.05	-3.58	685.84
11.87	687.68	7.01	687.42	1.09	686.37	-0.98	686.21
13.90	688.20	7.54	687.44	3.58	687.01	0.00	686.24
16.17	688.32	8.52	687.56	4.97	686.89	0.48	686.26
18.97	689.07	12.94	687.61	5.70	686.89	4.93	686.26
20.91	688.46	13.58	687.61	12.25	687.01	5.70	686.26
23.70	688.55	14.25	687.59	13.24	687.01	6.14	686.02
		15.81	686.81	13.89	686.89	8.50	687.03
		17.26	686.88	16.09	686.84	9.46	686.87
		21.56	687.09	18.54	686.94	9.84	686.47
		25.55	687.37	25.74	687.10	12.65	686.63
						15.88	686.82
						19.16	687.06
PK 4740.00		PK 4800.00		PK 4860.00		PK 4920.00	
-30.51	685.24	-27.78	684.91	-24.05	684.91	-25.12	684.87

-21.58	684.87	-15.31	685.75	-26.56	683.36	-23.42	684.71
-16.24	685.03	-15.12	685.64	-20.52	685.36	-15.67	685.07
-11.61	685.32	-14.54	685.64	-18.05	686.94	-11.47	685.39
-8.79	685.17	-11.13	687.31	-15.33	686.98	-11.17	685.57
-8.34	685.55	-9.95	687.00	-14.81	686.98	-8.05	685.93
-6.34	685.93	-6.75	687.31	-9.77	687.10	-5.82	688.04
-4.92	686.11	-4.46	689.33	-8.92	687.08	-3.01	688.09
-3.68	686.16	-2.74	689.12	-8.43	686.70	-2.15	688.09
0.00	686.19	0.00	689.57	-1.21	691.78	0.00	688.14
0.90	686.19	1.18	689.70	0.00	692.77	2.34	688.00
1.69	686.19	2.41	689.42	2.67	693.96	2.97	687.98
2.55	685.86	6.26	691.16	4.67	694.95	3.53	687.77
4.05	687.10	10.23	692.78	8.69	696.06	4.65	688.66
6.24	686.37	11.76	693.49	12.34	697.72	6.95	689.09
7.48	686.44	16.77	694.10	15.37	700.12	7.98	689.00
10.15	687.01	21.28	694.66	21.74	714.32	10.33	690.04
17.20	687.71	25.64	695.51	24.28	715.36	13.97	690.52
PK 4940.00		26.98	696.33	29.04	716.48	18.15	691.81
-27.64	684.90	PK 5000.00		36.46	717.33	20.94	692.95
-26.79	684.50	-22.75	686.08	43.89	717.47	PK 5120.00	
-25.91	684.80	-17.43	686.01	50.83	717.75	-30.38	684.90
-20.74	684.83	-17.10	685.76	PK 5060.00		-23.42	685.29
-17.42	684.95	-13.06	688.01	-30.94	683.34	-18.04	685.47
-12.99	684.88	-8.90	689.66	-23.59	683.47	-11.88	685.70
-12.23	685.47	-8.16	691.16	-19.98	683.54	-9.63	685.79
-9.97	685.89	-6.59	691.58	-19.34	683.77	-5.12	687.86
-8.64	685.94	-2.40	693.09	-14.35	684.11	-2.27	688.54
-3.95	685.96	0.00	694.34	-11.27	686.93	-1.71	688.13
-3.47	685.96	3.89	696.84	-9.98	687.16	-0.87	688.36
-2.58	685.57	5.75	697.10	-9.41	687.25	0.00	688.36
-0.74	686.63	8.05	699.59	-4.77	687.29	4.43	688.15
0.00	686.61	12.88	699.64	-3.80	687.27	5.20	688.15
1.80	686.36	16.26	700.09	-3.48	687.02	5.79	687.83
6.47	687.06	20.85	701.80	0.00	689.07	7.91	689.35
12.02	687.60	24.87	705.00	3.62	690.67	10.89	689.65
17.02	688.40	29.46	705.87	7.71	693.49	14.03	690.97
PK 4960.00		35.06	706.39	13.47	694.94	16.04	691.40
-27.48	684.95	39.79	706.39	20.55	699.55	18.04	692.80
-24.70	685.04	PK 5020.00		27.76	704.54	PK 5140.00	
-19.69	685.33	-31.22	684.20	33.94	706.72	-29.97	685.13
-16.95	685.42	-25.11	686.88	39.65	708.97	-27.33	685.33
-15.46	685.77	-23.79	686.55	PK 5080.00		-23.72	686.49
-14.56	685.80	-21.88	686.58	-33.19	683.72	-19.18	685.90
-10.09	685.77	-20.87	686.55	-26.42	683.78	-16.51	686.10
-9.44	685.84	-15.25	686.48	-19.51	684.03	-10.23	686.44
-8.46	685.30	-14.32	686.46	-14.41	684.24	-8.09	687.12
-6.35	686.41	-13.78	686.27	-14.00	684.37	-1.86	688.24
-5.00	686.22	-5.77	692.24	-11.13	684.37	0.00	688.31
-3.44	686.27	-2.51	694.85	-7.14	687.44	1.29	688.33
-2.04	686.43	-1.63	694.95	-5.84	687.71	5.64	688.40
0.00	686.67	0.00	696.22	-5.12	687.71	6.93	688.19
2.96	686.92	3.19	698.19	-0.71	687.71	8.39	689.05
7.30	687.68	6.66	700.89	0.00	687.74	10.54	690.01
8.74	688.57	15.00	707.80	0.32	687.64	12.98	690.05
9.21	688.40	18.36	712.88	0.56	687.51	17.25	690.83
11.21	688.64	23.11	713.85	1.18	687.80		
15.76	689.44	28.30	714.29	4.95	689.78		
18.46	689.98	34.09	715.09	10.24	690.32		
20.46	689.84	36.16	714.90	14.46	691.78		
22.83	691.11	42.39	715.07	19.52	694.23		
		49.15	715.51	25.76	698.02		
PK 4980.00		PK 5040.00		PK 5100.00			
-20.25	685.92	-29.44	683.36	-31.94	684.30		

PK 5160.00		PK 5220.00		PK 5260.00		PK 5320.00	
-31.92	685.68	-30.09	686.42	-27.80	687.99	-23.44	690.16
-25.47	686.02	-24.33	686.76	-25.63	688.15	-23.02	690.30
-19.00	686.43	-19.24	686.94	-18.63	688.69	-22.03	690.12
-12.18	686.73	-16.32	688.51	-14.18	689.05	-19.59	690.91
-9.97	687.02	-14.42	687.92	-13.24	689.53	-17.39	691.50
-8.56	688.52	-9.31	688.37	-12.39	689.39	-16.81	691.48
-3.14	688.84	-5.11	688.76	-10.70	689.51	-12.15	691.34
-1.04	688.68	-4.72	689.07	-8.73	690.46	-11.16	691.18
0.00	688.64	-4.18	689.05	-7.72	690.48	-8.56	692.55
0.88	688.64	-2.82	689.55	-3.43	690.44	-7.48	692.32
1.81	688.64	-2.23	689.66	-2.66	690.42	-3.29	692.68
6.08	688.79	-1.40	689.71	-2.15	690.10	0.00	692.87
6.82	688.79	0.00	689.76	0.00	690.58	3.77	693.34
7.29	688.52	2.72	689.71	2.55	690.85	8.17	693.66
7.91	689.11	3.69	689.66	5.10	691.26	9.88	694.43
11.20	690.88	4.64	689.28	6.74	692.46	10.59	694.30
12.70	691.27	6.51	689.96	7.80	692.21	12.99	694.45
13.83	691.47	9.25	690.55	11.05	692.64	18.39	695.11
14.65	691.09	10.52	691.32	18.55	693.14	24.67	695.75
16.08	691.79	12.77	691.30	21.11	693.91		
18.39	692.65	14.27	692.59	22.55	695.64	PK 5340.00	
PK 5180.00		15.73	692.50	24.01	695.25	-20.88	690.65
-30.52	686.19	PK 5240.00		PK 5280.00		-18.36	690.90
-19.46	686.87	-29.68	686.81	-26.19	688.70	-17.62	691.70
-13.35	687.19	-25.85	686.96	-21.22	688.99	-17.20	691.72
-9.99	688.78	-25.06	686.99	-17.00	689.17	-11.90	691.76
-7.62	688.78	-21.89	688.08	-16.66	689.83	-9.23	691.79
-2.49	689.19	-20.69	688.12	-15.05	689.79	-7.81	691.47
-1.95	689.51	-11.58	688.74	-12.83	690.72	-3.91	692.51
-0.80	688.73	-8.44	688.99	-6.66	690.63	-1.93	692.42
0.00	689.08	-6.97	689.58	-5.50	690.10	0.00	692.70
0.61	689.12	-5.20	690.03	-1.82	691.24	3.73	693.17
1.55	689.10	-4.07	690.10	0.00	691.38	9.66	693.80
5.69	689.08	0.00	690.06	2.44	692.62	16.39	695.03
6.64	689.05	0.89	689.96	3.51	692.31	23.66	695.73
7.08	688.85	1.96	689.60	6.41	692.62	PK 5360.00	
7.66	689.35	3.20	690.19	12.98	693.21	-19.63	691.71
11.93	692.09	4.83	690.60	15.97	693.51	-16.90	691.85
14.48	692.66	6.78	690.80	17.48	693.92	-12.54	691.94
14.82	693.32	7.87	691.16	18.75	694.80	-11.75	691.90
18.24	693.62	9.55	691.14	19.56	694.58	-11.29	691.65
PK 5200.00		11.70	692.84	22.83	694.98	-8.55	692.94
-31.91	686.25	12.43	692.55	PK 5300.00		-7.58	692.49
-20.80	686.79	16.22	693.07	-25.83	689.24	-3.63	692.80
-16.12	687.06			-21.02	689.49	0.00	693.49
-12.98	687.47			-19.98	689.63	2.86	693.66
-11.66	688.56			-17.63	690.92	8.71	694.37
-10.79	688.31			-16.08	691.15	15.22	695.05
-4.70	688.86			-15.55	691.15	23.04	695.98
-3.34	689.38			-10.75	690.88	PK 5380.00	
-1.57	689.11			-9.90	690.83	-18.78	691.91
-0.38	689.40			-9.42	690.65	-17.72	692.00
0.00	689.43			-5.31	691.67	-17.18	692.07
0.48	689.40			-3.36	692.54	-12.60	692.11
4.69	689.45			-2.42	692.42	-12.04	692.05
5.41	689.43			0.00	692.54	-11.57	691.98
6.04	689.08			2.94	692.74	-11.20	691.75
6.66	689.40			12.83	693.44	-8.95	693.16
8.71	691.26			14.40	694.40	-7.84	692.59
12.42	692.60			15.09	694.33	-3.24	693.16
17.32	696.71			16.01	694.46	0.00	693.30
				18.88	694.60	3.77	693.66
				25.17	695.30	9.61	694.11
						18.10	694.73
						22.25	695.13



PK 5400.00		PK 5480.00		PK 5540.00		PK 5580.00	
-20.47	691.41	-18.75	690.80	-26.28	684.41	-25.63	691.98
-18.37	691.77	-16.22	691.65	-24.10	684.34	-23.52	692.80
-17.30	691.84	-15.52	691.81	-18.08	687.46	-22.31	694.21
-12.66	691.86	-11.17	691.92	-14.57	688.79	-20.72	694.08
-12.21	691.86	-10.68	691.92	-13.28	689.52	-19.27	694.10
-11.84	691.84	-10.50	691.92	-12.80	691.73	-16.25	694.15
-11.14	691.43	-9.62	691.56	-12.56	691.73	-13.10	694.03
-9.69	692.62	-8.33	691.78	-11.70	691.73	-11.71	694.78
-8.91	692.64	-6.70	691.08	-7.75	691.80	-10.71	694.78
-7.91	692.23	-2.74	691.37	-6.99	691.80	-8.60	692.73
-3.03	692.59	0.00	691.47	-5.80	691.50	-7.17	692.94
0.00	692.94	3.14	691.35	-4.82	691.64	-6.70	692.98
4.65	693.09	7.12	691.35	-3.74	691.34	-2.44	693.19
11.32	693.57	13.47	691.24	0.00	691.12	-1.66	693.14
16.90	693.96	16.37	691.21	2.69	690.97	-1.21	692.87
21.43	694.19	18.11	691.26	5.96	691.11	0.00	694.56
PK 5420.00		PK 5500.00		7.20	691.61	2.32	694.81
-20.31	691.35	-26.34	684.05	11.67	691.45	7.56	695.03
-18.14	691.85	-24.96	684.53	13.06	690.22	12.13	695.40
-17.22	691.90	-22.52	684.37	15.79	689.76	14.29	695.97
-12.68	691.88	-21.61	686.14	19.23	689.54	14.79	695.78
-12.30	691.95	-20.02	687.03	PK 5560.00		16.63	695.88
-11.37	691.97	-17.20	687.72	-25.17	689.84	19.10	696.15
-10.08	692.26	-4.32	688.58	-22.47	690.71	PK 5600.00	
-7.90	692.01	0.00	687.72	-21.45	692.35	-25.62	693.19
-2.64	692.42	4.22	688.63	-20.36	692.55	-23.53	693.46
0.00	692.52	6.32	687.28	-17.94	692.80	-22.61	694.51
2.24	692.67	10.87	687.19	-15.14	693.14	-20.49	694.40
8.48	692.86	16.37	687.51	-13.51	693.24	-14.33	694.65
14.17	693.13	18.72	687.33	-11.03	691.96	-10.82	694.62
19.32	693.22	22.50	687.40	-9.54	692.23	-9.48	694.67
PK 5440.00		25.58	687.78	-9.11	692.33	-7.92	693.49
-19.30	691.49	PK 5520.00		-4.55	692.33	-6.96	693.65
-18.09	691.81	-25.70	684.42	-3.91	692.33	-6.23	693.65
-16.86	691.87	-24.04	684.40	-3.40	692.24	-1.66	693.90
-12.33	691.85	-23.37	684.29	-2.76	693.70	-0.97	693.87
-11.76	691.87	-22.31	684.24	-2.30	693.83	-0.46	693.65
-11.46	691.83	-21.47	684.70	-1.23	693.72	0.00	694.06
-11.19	691.67	-19.72	684.72	0.00	693.70	1.48	695.58
-10.23	691.99	-18.26	684.72	11.03	694.72	2.84	695.38
-8.90	691.71	-17.50	684.93	15.34	695.01	7.12	695.54
-3.28	692.03	-15.49	685.40	16.59	695.10	8.30	695.97
0.00	692.22	-8.05	685.81			9.54	696.29
3.52	692.24	-5.29	686.06			10.52	695.81
9.61	692.51	0.00	686.32			12.97	696.04
16.20	692.74	2.29	686.29			18.87	696.47
PK 5460.00		5.60	686.27				
-18.45	691.63	10.59	686.32				
-17.14	691.88	15.79	686.38				
-16.23	691.88	23.31	686.22				
-11.76	691.90	25.68	687.39				
-10.88	691.83						
-10.44	691.65						
-9.41	692.04						
-7.69	691.81						
-3.29	691.99						
0.00	692.11						
4.07	692.10						
9.41	692.17						
16.63	692.33						

PK 5620.00		PK 5660.00		PK 5700.00		PK 5740.00	
-26.50	692.87	-27.52	691.49	-28.60	692.45	-36.26	688.37
-24.62	693.08	-26.12	692.24	-27.08	692.73	-34.09	688.82
-23.88	694.31	-24.85	692.42	-26.49	693.13	-32.97	690.24
-23.27	694.47	-23.72	694.08	-26.09	694.07	-30.32	691.44
-21.58	694.44	-22.24	694.61	-25.71	694.57	-27.79	693.04
-21.05	694.21	-20.94	694.61	-25.01	694.83	-25.38	693.70
-15.80	694.51	-20.30	694.43	-24.04	694.52	-24.82	694.41
-12.56	694.65	-14.09	694.74	-23.33	694.76	-23.78	694.46
-10.50	694.60	-10.94	694.99	-22.88	694.73	-21.68	693.42
-9.46	694.51	-9.80	694.95	-16.76	695.09	-18.00	693.77
-8.40	694.12	-9.14	694.74	-11.63	695.51	-17.61	694.36
-7.74	694.28	-7.95	695.06	-8.54	695.84	-14.88	694.60
-6.64	694.28	-6.68	695.20	-6.82	696.08	-9.12	695.05
-2.20	694.33	-6.12	695.22	-5.43	696.12	-7.25	695.45
-1.27	694.35	-1.47	695.27	-4.39	695.91	-2.87	696.23
-0.99	694.19	-0.58	695.27	-3.50	696.31	-1.21	696.56
0.00	694.88	0.00	695.25	-2.67	696.34	-1.01	696.70
1.14	695.65	1.83	696.52	0.00	696.46	-0.34	696.73
3.09	695.63	3.03	696.18	2.22	696.34	0.00	696.73
5.06	696.13	4.69	696.20	2.71	696.36	4.08	696.84
5.87	695.85	7.09	696.63	3.15	696.36	4.97	696.84
8.53	696.01	11.85	697.00	3.55	695.98	5.74	696.74
12.24	696.33	16.27	697.57	5.25	697.26	6.08	697.19
16.91	696.61	20.13	698.00	7.67	697.54	6.92	697.26
19.80	696.83			12.39	698.01	7.83	697.17
PK 5640.00		PK 5680.00		17.23	698.39	11.45	697.45
-28.08	691.75	-28.36	692.50	21.05	698.77	16.54	698.02
-26.78	692.32	-26.65	692.63	PK 5720.00		18.63	698.25
-25.26	692.55	-26.02	693.75	-29.67	691.19	PK 5760.00	
-24.15	693.21	-25.08	694.36	-26.77	692.06	-40.34	687.02
-23.34	694.44	-24.46	694.64	-25.77	692.60	-37.70	687.47
-21.79	694.44	-22.14	694.80	-25.30	694.16	-36.61	690.06
-21.27	694.19	-21.73	694.71	-23.98	694.40	-33.65	691.14
-19.60	694.39	-14.49	695.14	-23.98	694.40	-32.82	691.80
-15.33	694.57	-10.23	695.41	-22.70	694.44	-32.00	692.21
-11.85	694.73	-7.59	695.59	-22.15	694.18	-31.32	692.09
-10.13	694.78	-6.79	695.48	-15.36	694.65	-28.61	692.09
-9.31	694.62	-6.18	695.57	-10.09	695.31	-28.14	692.23
-7.97	694.76	-5.43	695.71	-6.89	695.48	-27.45	694.42
-6.80	694.85	-4.77	695.78	-6.24	695.86	-20.41	694.44
-1.94	694.80	0.00	695.94	-4.54	696.02	-16.50	694.77
-0.80	694.87	0.79	695.89	-1.12	696.54	-11.05	695.15
-0.47	695.92	1.45	695.66	-0.45	696.64	-7.86	695.08
0.00	695.90	2.93	696.78	0.00	696.64	-4.31	696.64
3.37	695.96	3.30	696.64	4.19	696.85	-3.80	696.71
8.69	696.53	5.12	696.75	4.60	696.87	-3.32	696.71
15.54	696.90	9.81	697.44	5.09	696.87	-2.74	696.73
18.84	697.19	16.11	698.01	5.70	696.59	0.00	696.76
		20.58	698.49	6.20	697.34	1.46	696.73
				7.24	697.84	2.11	696.73
				8.07	697.60	2.71	696.42
				9.73	697.60	3.94	697.16
				14.34	698.10	5.17	697.13
				17.85	698.33	9.33	697.34
						15.44	697.82
						18.14	698.17

PK 5780.00		PK 5820.00		PK 5860.00		PK 5900.00	
-45.15	687.40	-47.32	687.35	-46.85	688.18	-45.82	689.54
-38.80	687.54	-43.52	687.44	-42.07	689.31	-35.47	690.20
-36.21	689.14	-39.43	687.23	-40.73	689.36	-29.86	690.43
-33.42	691.43	-36.86	688.20	-31.88	689.71	-28.88	690.60
-32.33	692.02	-34.05	690.27	-29.22	689.85	-28.43	690.65
-31.36	692.09	-32.56	691.22	-26.32	690.84	-24.79	691.16
-30.65	691.92	-29.10	691.22	-23.22	692.30	-23.59	692.70
-27.85	691.92	-27.55	692.49	-20.70	694.71	-20.81	692.89
-26.87	692.11	-24.68	692.73	-19.07	694.78	-20.18	694.61
-26.58	694.16	-23.73	694.85	-18.12	694.85	-19.50	694.79
-25.73	694.68	-21.34	694.87	-15.29	694.78	-16.30	694.82
-22.10	694.66	-17.85	694.82	-13.24	695.70	-15.65	694.77
-18.43	694.85	-16.52	694.92	-12.49	695.70	-13.52	695.62
-16.45	695.03	-15.68	695.06	-11.73	695.77	-13.01	695.62
-15.40	694.94	-14.35	694.78	-7.49	695.82	-12.26	695.64
-10.62	695.18	-12.51	695.13	-6.88	695.79	-8.05	695.67
-8.05	696.38	-11.53	695.98	-6.66	695.79	-7.61	695.69
-7.31	696.40	-10.81	695.98	-5.88	695.51	-7.23	695.69
-5.82	696.38	-9.94	696.00	-4.73	695.74	-6.35	695.43
-1.58	696.31	-5.70	695.93	-4.15	695.63	-5.62	695.62
-1.31	696.28	-5.24	695.91	0.00	695.82	0.00	695.79
-0.53	696.21	-4.66	695.60	2.89	695.86	4.80	696.14
0.00	696.36	-3.53	695.96	8.36	696.24	12.26	696.73
0.83	697.02	-2.42	695.86	15.21	696.85	18.55	697.44
3.21	696.99	0.00	695.96	PK 5880.00		PK 5920.00	
10.52	697.42	3.05	696.03	-46.61	689.37	-44.73	689.97
18.03	698.05	7.56	696.17	-34.67	689.96	-38.73	690.34
PK 5800.00		13.94	696.92	-30.91	690.19	-32.81	690.53
-44.63	687.00	PK 5840.00		-30.55	690.38	-27.91	690.82
-43.68	687.52	-47.99	687.63	-29.13	690.40	-27.57	690.91
-39.43	687.43	-44.72	687.87	-25.21	691.75	-26.18	691.05
-35.63	689.34	-41.89	688.32	-23.64	692.67	-24.33	692.82
-33.37	690.77	-38.15	688.69	-21.16	693.09	-22.60	693.08
-32.28	691.69	-37.26	688.58	-19.42	694.86	-19.62	694.94
-28.22	691.72	-33.63	688.88	-18.50	694.74	-17.66	694.87
-27.03	692.57	-31.94	689.31	-15.32	694.76	-14.38	695.08
-25.78	692.68	-30.52	690.46	-13.20	695.68	-13.73	695.53
-25.28	694.52	-28.20	690.74	-12.08	695.68	-13.22	695.53
-23.90	694.85	-25.94	691.95	-7.92	695.71	-12.47	695.55
-22.33	695.04	-23.33	692.51	-7.22	695.71	-8.20	695.65
-21.22	694.99	-22.71	694.66	-6.85	695.64	-7.38	695.67
-20.81	695.09	-19.12	694.78	-6.03	695.40	-6.37	695.25
-16.23	694.97	-14.40	694.78	-5.32	695.52	-5.68	695.63
-12.63	695.02	-12.51	695.74	0.00	695.76	0.00	695.89
-11.65	695.14	-11.04	695.79	3.86	696.01	4.65	696.17
-10.19	696.17	-6.75	695.77	8.78	696.32	9.60	696.47
-9.37	696.22	-5.93	695.84	15.38	696.96	18.49	697.35
-8.28	696.24	-4.88	695.39			28.31	698.27
-3.89	696.24	-4.05	695.62			28.92	698.55
-3.15	696.24	0.00	695.70			29.85	698.50
-2.59	695.96	3.41	695.62			30.53	698.67
-1.37	696.24	10.16	696.21				
0.00	696.32	17.48	696.87				
1.98	696.46						
8.79	696.81						
14.85	697.38						

PK 5940.00		PK 5980.00		PK 6040.00		PK 6100.00	
-42.34	690.73	-33.38	692.27	-24.42	697.74	-20.71	699.16
-31.34	691.13	-28.49	693.71	-20.98	697.86	-17.64	699.35
-29.05	691.27	-26.85	694.00	-20.29	698.14	-14.49	699.44
-27.81	691.30	-25.69	695.65	-17.87	698.24	-12.73	699.47
-27.32	691.20	-25.25	695.88	-17.01	698.21	-11.58	699.51
-23.92	693.35	-24.03	695.60	-12.78	698.12	-6.42	699.56
-21.86	693.53	-16.96	695.88	-12.18	698.12	-6.16	699.56
-19.82	694.97	-14.24	696.45	-11.75	698.05	-5.63	699.35
-18.62	695.04	-13.39	696.49	-11.06	697.91	-3.83	700.54
-18.20	694.88	-9.37	696.49	-8.75	699.34	0.00	700.83
-17.74	694.97	-8.67	696.52	-7.80	699.30	3.70	700.97
-14.73	695.28	-8.30	696.54	-3.09	699.56	10.34	701.55
-13.69	695.73	-7.01	695.90	0.00	699.68	16.34	702.16
-13.24	695.73	-5.88	696.42	3.26	699.77	20.48	702.56
-12.51	695.75	-5.17	696.35	8.01	699.98	PK 6120.00	
-8.48	695.77	0.00	696.57	13.59	700.19	-19.75	699.03
-7.94	695.77	3.91	696.61	18.18	700.62	-15.68	699.13
-7.63	695.89	11.33	697.08	PK 6060.00		-11.86	699.31
-6.23	695.11	15.86	697.41	-19.59	698.68	-11.22	699.52
-5.14	695.63	PK 6000.00		-17.60	698.80	-9.77	699.74
0.00	695.85	-21.73	696.27	-16.97	698.82	-8.79	699.74
3.53	696.10	-18.30	696.41	-12.42	698.52	-4.58	699.76
10.09	696.36	-16.47	696.83	-11.84	698.49	-4.07	699.78
16.38	697.02	-15.15	697.04	-11.47	698.52	-3.44	699.76
20.70	697.54	-14.44	697.07	-11.32	698.26	-2.97	699.43
28.80	698.11	-10.10	697.00	-9.38	699.85	-1.21	700.27
29.48	698.32	-9.62	697.00	-8.31	699.83	0.00	700.42
32.36	698.82	-9.18	697.04	-3.58	700.18	3.12	700.46
34.58	701.46	-7.99	696.50	0.00	700.49	7.89	700.74
36.96	701.57	-5.95	697.37	1.96	700.65	12.82	701.21
PK 5960.00		-5.24	697.30	8.95	701.16	17.97	701.59
-34.96	691.55	0.00	697.45	11.12	701.33	PK 6140.00	
-29.76	691.78	4.65	697.63	11.69	701.63	-20.77	698.76
-29.22	691.90	11.14	698.01	14.71	701.73	-16.19	698.95
-28.69	691.78	15.21	698.29	15.68	702.10	-11.92	699.11
-27.42	692.28	PK 6020.00		20.35	702.50	-10.97	699.33
-26.35	693.90	-21.49	697.17	PK 6080.00		-9.66	699.33
-22.83	694.23	-19.78	697.12	-20.88	698.82	-8.06	699.89
-21.64	695.46	-19.18	697.52	-17.02	698.99	-7.32	699.91
-20.42	695.22	-16.71	697.59	-15.43	699.20	-6.51	699.91
-18.35	695.39	-15.86	697.64	-14.74	699.18	-2.27	699.89
-16.96	695.46	-11.31	697.62	-9.98	699.01	-1.35	699.93
-13.58	695.93	-10.69	697.69	-9.46	699.06	-0.64	699.68
-12.78	695.98	-9.67	697.40	-9.08	699.08	0.00	700.15
-8.74	695.95	-7.37	698.44	-8.89	698.87	0.70	700.38
-8.11	696.00	-7.02	698.37	-6.81	700.18	1.03	700.19
-7.69	696.00	-2.29	698.39	0.00	700.75	5.40	700.33
-6.60	695.48	0.00	698.54	2.39	700.93	11.40	700.66
-5.70	695.95	3.06	698.61	8.18	701.47	16.82	700.99
-5.01	695.88	8.98	698.89	16.23	702.38		
0.00	696.03	15.30	699.36	21.76	703.02		
3.72	696.21						
9.44	696.52						
13.55	696.90						
14.70	696.97						
18.86	697.37						
23.16	697.70						



PK 6160.00		PK 6220.00		PK 6280.00		PK 6340.00	
-20.08	698.85	-18.22	699.67	-16.57	700.80	-17.25	701.62
-13.74	699.04	-14.04	699.95	-12.17	701.08	-9.77	701.83
-9.91	699.20	-8.29	700.26	-9.27	701.29	-5.11	702.01
-8.74	699.56	-4.88	700.49	-6.62	701.36	-4.77	702.29
-8.15	699.56	-3.76	700.91	-4.58	701.43	-3.75	702.17
-5.77	700.16	-3.36	700.91	-3.75	701.73	-2.34	702.24
-5.36	700.16	-1.90	700.91	-2.64	701.85	-1.26	702.31
-4.47	700.19	0.00	701.01	-1.50	701.92	0.00	702.41
-0.47	700.21	2.44	700.96	0.00	701.95	2.96	702.29
0.00	700.24	3.09	700.96	2.89	701.95	3.93	702.34
0.75	700.14	4.19	700.47	3.87	701.95	4.46	702.04
1.35	699.84	4.92	700.89	4.52	701.66	6.07	702.80
2.29	700.35	5.20	700.77	5.90	702.32	6.62	702.54
2.68	700.16	7.39	700.89	7.10	702.37	9.76	702.73
4.82	700.28	12.27	701.08	10.62	702.67	14.65	702.94
8.06	700.40	16.94	701.31	14.20	702.79	18.45	703.14
16.24	700.89	PK 6240.00		17.01	703.23	PK 6360.00	
PK 6180.00		-17.52	700.02	19.07	703.42	-17.39	701.82
-19.23	699.04	-14.29	700.25	PK 6300.00		-14.71	701.98
-13.93	699.29	-8.24	700.63	-16.15	701.07	-10.32	702.21
-10.46	699.60	-4.47	700.75	-8.48	701.42	-5.27	702.56
-6.82	699.83	-3.57	701.24	-5.51	701.54	-4.00	702.35
-6.34	700.11	-2.73	701.26	-4.91	701.91	-1.72	702.42
-5.95	700.07	-1.67	701.31	-3.24	701.93	-1.18	702.49
-5.08	700.46	0.00	701.29	-2.66	702.00	0.00	702.56
-4.28	700.46	2.65	701.29	-2.00	702.00	2.96	702.46
-3.18	700.46	3.70	701.29	-1.43	702.05	3.82	702.30
0.00	700.54	4.36	700.98	0.00	702.08	4.49	702.62
0.90	700.42	5.28	701.40	3.66	702.05	6.28	702.95
2.07	700.37	5.53	701.31	4.64	701.75	7.99	704.10
2.51	700.07	7.62	701.45	5.69	702.38	11.53	703.76
3.49	700.68	11.23	701.59	7.59	702.36	15.00	703.80
3.93	700.44	16.40	701.96	12.72	702.68	15.95	703.83
7.47	700.56	PK 6260.00		16.73	702.87	PK 6380.00	
12.05	700.77	-16.65	700.53	18.39	703.29	-17.43	700.91
16.84	701.00	-10.84	700.91	PK 6320.00		-12.15	701.02
PK 6200.00		-7.23	701.03	-16.67	701.26	-10.06	701.23
-17.38	699.42	-4.49	701.10	-13.11	701.40	-8.12	701.39
-12.18	699.75	-3.78	701.38	-9.66	701.63	-6.99	702.08
-7.92	700.10	-2.91	701.59	-4.97	701.79	-4.86	702.50
-5.42	700.20	-1.58	701.64	-4.33	701.97	-1.88	702.59
-4.70	700.64	0.00	701.64	-2.02	702.09	-1.11	702.64
-3.60	700.64	2.66	701.61	-1.35	702.16	0.00	702.69
-2.33	700.71	3.42	701.59	0.00	702.21	3.03	702.59
0.00	700.74	3.82	701.61	2.92	702.14	5.29	702.25
1.81	700.52	4.50	701.21	3.76	702.14	7.23	702.38
2.83	700.52	5.97	702.01	4.58	701.79	11.36	702.45
3.58	700.29	6.18	701.87	5.80	702.55	16.85	702.50
4.26	700.62	9.39	702.10	6.28	702.41		
4.73	700.45	12.96	702.29	8.51	702.44		
7.52	700.59	19.52	702.69	12.55	702.78		
11.64	700.69			16.85	702.97		
15.86	700.92						

PK 6400.00		PK 6460.00		PK 6520.00		PK 6580.00	
-19.57	700.52	-20.93	700.97	-23.95	702.24	-24.75	703.26
-12.95	700.64	-17.46	701.07	-17.04	702.73	-18.50	703.84
-8.49	700.71	-11.80	701.23	-11.35	703.10	-13.21	704.28
-8.00	700.99	-6.29	701.30	-6.71	703.35	-7.62	704.74
-6.12	701.03	-4.31	701.87	-5.58	703.35	-3.81	705.11
-4.12	701.77	-2.09	703.28	-4.70	703.88	-3.38	705.32
-1.79	702.72	-1.55	703.33	-3.62	703.86	-2.42	705.09
-0.96	702.74	-0.70	703.45	-2.62	704.28	-1.32	705.36
0.00	702.84	0.00	703.45	-1.88	704.42	-0.64	705.46
3.10	702.74	3.58	703.31	-0.68	704.42	0.00	705.46
3.75	702.74	4.32	703.31	0.00	704.49	3.61	705.46
4.34	702.88	4.75	703.31	3.35	704.37	4.35	705.46
5.82	702.23	6.44	702.24	4.19	704.37	4.73	705.46
7.19	702.51	8.06	702.34	4.50	704.42	5.52	705.29
7.79	702.33	10.93	702.38	5.12	704.25	7.51	706.38
12.51	702.47	14.28	702.47	6.30	704.60	10.65	706.56
18.31	702.65	18.78	702.59	8.90	704.60	15.80	706.77
PK 6420.00		PK 6480.00		14.72	704.92	19.60	706.93
-18.60	700.36	-20.51	701.43	22.72	705.20	22.38	707.51
-12.23	700.52	-14.13	701.64	29.10	705.36	24.23	708.71
-8.26	700.66	-10.02	701.78	PK 6540.00		25.00	708.57
-7.38	700.96	-5.83	701.87	-24.88	702.68	29.41	708.76
-6.22	700.96	-5.31	701.96	-20.90	702.91	PK 6600.00	
-3.99	701.75	-4.77	701.94	-15.33	703.47	-24.39	703.31
-1.74	702.83	-2.12	703.72	-9.00	703.81	-18.75	703.81
-0.79	702.93	-1.67	703.72	-4.58	703.98	-11.80	704.55
0.00	703.00	-0.66	703.77	-4.23	704.23	-6.06	705.13
3.09	702.88	0.00	703.77	-3.04	704.35	-3.43	705.43
3.95	702.81	3.57	703.58	-1.88	704.69	-3.01	705.55
4.46	703.00	4.22	703.63	-0.70	704.76	-2.32	705.34
5.66	702.32	4.82	703.63	0.00	704.79	-1.53	705.76
6.77	702.56	6.23	702.70	3.30	704.85	-0.61	705.78
7.14	702.42	7.50	702.66	3.97	704.76	0.00	705.76
9.91	702.53	11.38	702.75	4.72	704.76	3.79	705.64
18.13	702.72	19.23	703.07	5.24	704.55	5.08	705.69
PK 6440.00		PK 6500.00		6.45	705.09	5.40	705.55
-21.25	700.77	-19.58	702.01	7.74	705.15	7.08	706.96
-12.61	700.97	-15.19	702.31	11.21	705.36	9.51	707.10
-8.16	701.16	-9.62	702.64	16.17	705.64	14.14	707.14
-7.14	701.44	-6.20	702.75	20.17	705.80	15.89	707.79
-5.04	701.60	-5.02	703.12	20.87	705.76	17.42	708.74
-2.13	703.12	-4.05	703.21	21.61	706.17	20.10	708.76
-1.50	703.17	-3.24	703.54	22.74	706.29	26.00	708.90
-0.63	703.26	-2.29	704.02	26.98	706.47	28.83	708.97
0.00	703.29	-1.76	704.02	PK 6560.00		30.65	709.57
3.42	703.15	-0.64	704.09	-23.82	703.46		
3.90	703.12	0.00	704.12	-16.34	704.00		
4.69	703.12	3.60	704.07	-9.94	704.50		
6.39	702.18	4.37	704.07	-5.16	704.76		
10.27	702.29	4.90	703.95	-3.38	704.83		
14.56	702.45	6.28	703.35	-2.67	704.64		
19.09	702.55	8.68	703.51	-1.67	705.08		
		12.87	703.79	-0.64	705.08		
		16.94	703.95	0.00	705.11		
				3.47	705.08		
				4.32	705.08		
				5.10	704.87		
				7.48	706.03		
				10.49	706.31		
				16.44	706.54		
				23.08	707.25		
				25.09	707.21		
				28.05	707.88		

PK 6620.00		PK 6660.00		PK 6700.00		PK 6760.00	
-28.22	703.30	-20.01	705.48	-21.02	705.92	-20.52	704.43
-24.47	703.62	-16.68	705.73	-16.19	706.26	-18.15	705.93
-18.68	704.07	-11.23	706.23	-10.38	706.69	-15.21	706.86
-11.81	704.66	-6.87	706.61	-6.05	707.19	-7.53	707.23
-6.26	705.14	-5.56	706.55	-4.41	707.17	-3.67	707.59
-3.22	705.41	-4.81	706.77	-3.91	707.31	-1.69	707.48
-2.77	705.78	-4.09	706.86	-3.45	707.33	-1.12	707.71
-2.22	705.64	-2.01	706.50	-1.78	707.19	-0.25	707.80
-1.72	705.85	-1.40	706.64	-0.44	707.28	0.00	707.78
-1.08	706.03	-0.49	706.68	0.00	707.31	4.08	707.87
-0.55	706.08	0.00	706.71	3.99	707.26	4.67	707.84
0.00	706.08	4.42	706.64	4.86	707.26	5.42	707.80
3.89	706.01	5.19	706.64	5.28	707.24	5.88	707.93
4.62	706.03	7.79	708.48	7.66	709.40	6.08	708.71
5.19	705.80	9.73	708.55	8.78	709.29	7.21	709.32
7.25	707.21	13.05	708.64	12.29	709.49	9.42	709.30
8.76	707.81	16.08	708.80	13.18	709.88	14.84	709.62
9.63	707.71	17.47	709.64	14.50	710.84	16.12	710.44
11.75	708.44	21.93	709.73	15.85	710.88	16.82	710.33
15.47	708.65	23.07	710.55	21.25	711.11	20.11	710.39
22.24	709.06	PK 6680.00		26.75	712.00	23.26	710.67
27.48	709.74	-20.92	705.96	PK 6720.00		PK 6780.00	
33.22	710.54	-15.39	706.40	-20.97	705.83	-21.35	703.94
PK 6640.00		-9.00	706.67	-16.34	705.97	-18.01	706.26
-22.61	705.01	-5.48	706.94	-11.05	706.51	-17.62	707.38
-18.26	705.21	-3.84	707.29	-6.11	706.99	-17.07	707.51
-14.07	705.51	-2.99	707.26	-3.33	707.06	-16.36	707.38
-11.33	705.71	-2.06	706.88	-2.92	707.22	-11.53	707.49
-6.70	706.06	-0.96	706.99	-1.98	707.11	-5.61	707.86
-4.92	706.35	-0.44	707.04	-1.21	707.33	-2.61	707.95
-3.54	706.31	0.00	707.04	-0.39	707.40	-2.04	707.81
-2.19	706.15	4.00	706.90	0.00	707.43	-0.76	707.99
-1.13	706.31	4.87	706.92	3.92	707.49	0.00	708.02
-0.53	706.38	5.39	706.83	4.83	707.47	4.15	708.11
0.00	706.38	7.02	708.81	5.56	707.33	4.88	708.11
3.92	706.33	7.83	709.15	8.31	708.97	5.70	707.92
4.78	706.35	12.16	709.40	12.25	709.15	6.06	708.95
5.23	706.17	12.76	709.61	13.58	710.11	7.16	709.52
6.96	707.24	13.42	709.52	14.49	710.32	10.19	709.45
8.02	707.76	15.01	710.72	17.97	710.45	15.09	709.77
9.92	707.79	16.11	710.68	22.33	710.61	16.91	710.66
14.79	708.11	19.90	710.79	26.11	711.11	19.28	710.63
18.12	708.20	23.63	711.18	PK 6740.00		25.27	710.84
18.82	707.97	27.39	711.77	-19.74	706.15	PK 6800.00	
20.25	709.20			-14.79	706.49	-18.67	707.57
22.73	709.20			-7.73	706.97	-17.28	707.59
24.28	709.29			-2.81	707.33	-16.44	707.30
27.10	710.68			-2.25	707.56	-8.12	707.59
29.15	710.73			-0.96	707.58	-3.35	707.96
32.75	710.88			-0.38	707.61	-2.92	708.05
34.82	711.57			0.00	707.61	-2.10	707.82
36.12	711.34			4.05	707.63	-0.89	708.26
				4.83	707.61	0.00	708.26
				5.89	707.51	4.22	708.26
				7.70	708.63	5.15	708.28
				9.70	708.83	5.67	708.14
				14.15	709.15	6.22	709.28
				15.73	710.18	7.75	709.62
				19.24	710.38	12.09	709.74
				19.59	710.22	16.25	709.89
				21.99	710.43	17.61	710.67
						20.57	710.71
						23.54	710.90

PK 6820.00		PK 6880.00		PK 6920.00		PK 6960.00	
-19.69	706.20	-17.37	704.53	-16.44	701.51	-20.15	703.34
-18.72	706.88	-15.43	705.89	-14.05	702.36	-18.76	704.29
-17.70	706.86	-10.83	706.28	-13.87	704.40	-14.53	704.57
-15.25	706.95	-4.38	707.33	-12.58	704.67	-11.88	705.17
-8.44	707.32	-3.49	707.94	-9.29	707.17	-11.12	707.20
-3.61	707.52	-1.37	707.87	-6.35	707.54	-9.82	708.01
-1.49	708.43	-0.64	709.01	-4.48	708.30	-8.56	708.84
-0.60	708.48	-0.37	709.01	-2.29	709.31	-7.22	708.72
0.00	708.46	0.00	709.04	-0.91	709.50	-3.28	708.98
4.31	708.39	0.44	708.94	0.00	709.48	-2.27	709.48
5.46	708.46	4.48	709.04	0.34	709.48	-0.65	710.02
6.00	708.32	5.78	709.04	4.41	709.52	0.00	710.02
7.72	709.18	6.67	708.67	5.08	709.52	0.48	710.02
9.65	709.23	8.04	709.60	6.09	709.43	4.62	710.08
11.82	709.39	10.33	709.54	6.60	710.38	5.53	710.08
17.49	709.62	13.75	709.67	7.43	710.38	6.00	709.90
22.21	710.00	15.93	710.79	9.07	710.40	7.65	711.01
PK 6840.00		16.57	710.74	13.44	710.72	10.20	711.35
-17.32	706.81	17.94	711.65	15.22	711.85	11.25	711.28
-16.51	706.70	21.57	711.93	18.43	712.06	15.57	711.45
-13.74	706.84	PK 6900.00		18.61	713.12	17.00	712.21
-7.32	707.20	-18.66	700.79	19.47	713.42	19.01	712.55
-3.43	707.34	-13.54	703.60	23.49	713.63	24.74	713.13
-1.10	708.61	-12.24	705.35	PK 6940.00		PK 6980.00	
0.00	708.64	-10.96	706.56	-16.73	703.39	-18.23	704.59
4.40	708.57	-8.43	706.88	-14.04	706.07	-14.54	706.42
5.72	708.57	-5.32	707.49	-10.86	708.28	-14.07	708.38
6.33	708.41	-3.10	708.31	-9.15	708.82	-12.37	708.96
7.54	708.86	-1.33	709.11	-6.21	709.46	-11.73	708.82
9.93	708.86	-0.72	709.22	-3.03	709.53	-5.30	709.23
13.17	709.18	0.00	709.25	-0.82	709.76	-2.85	709.42
18.97	709.73	0.42	709.29	0.00	709.79	-1.37	710.23
21.40	710.07	4.47	709.31	0.39	709.79	-0.82	710.27
22.57	710.98	5.42	709.29	4.54	709.90	0.00	710.23
23.27	710.80	5.99	709.13	5.42	709.88	0.48	710.25
PK 6860.00		6.95	709.79	6.00	709.85	4.59	710.27
-17.68	705.23	8.84	709.66	6.67	710.73	5.47	710.27
-13.70	705.34	10.32	710.61	8.73	710.80	6.37	710.16
-12.12	706.35	11.72	710.95	12.39	711.17	7.92	710.94
-9.92	706.35	12.80	711.20	14.08	711.36	10.11	710.92
-8.78	707.39	13.68	711.00	15.63	711.38	14.29	711.03
-6.91	707.30	15.28	711.89	17.08	711.93	16.02	711.08
-3.50	707.53	18.79	712.14	21.72	712.14	17.57	711.70
-0.82	708.81	21.67	712.39	24.38	713.23	19.12	712.10
0.00	708.81			25.77	713.25	22.53	712.44
0.25	708.83						
4.49	708.83						
5.53	708.83						
6.58	708.46						
7.62	708.90						
10.30	709.17						
14.28	709.56						
18.23	709.92						
20.14	710.97						
21.08	710.83						
22.43	711.22						



PK 7000.00		PK 7060.00		PK 7120.00		PK 7180.00	
-18.53	708.90	-20.57	710.41	-21.84	712.16	-27.94	714.62
-12.89	709.22	-15.51	710.66	-19.67	712.39	-19.50	714.94
-7.14	709.57	-11.05	710.89	-14.21	712.94	-13.41	715.15
-2.89	709.78	-5.78	711.06	-6.93	713.15	-7.28	715.45
-1.25	710.42	-2.50	711.29	-2.48	713.40	-2.45	715.70
-0.74	710.42	-1.23	711.77	-1.09	714.01	-1.94	716.07
0.00	710.45	-0.47	711.77	-0.75	714.01	-0.58	716.21
0.43	710.47	0.00	711.80	0.00	714.01	0.00	716.24
4.75	710.51	0.46	711.80	0.37	714.01	0.22	716.24
5.88	710.56	4.73	711.91	4.73	714.07	4.79	716.24
6.53	710.38	5.59	711.91	5.63	714.07	5.38	716.28
8.10	711.21	6.28	711.75	6.31	713.91	5.97	716.28
11.02	711.21	7.62	712.16	8.33	714.42	7.11	715.93
13.95	711.30	10.33	712.37	8.88	714.24	9.17	716.65
15.89	711.62	11.41	712.56	11.94	714.54	11.02	716.49
16.59	711.58	12.29	712.35	17.07	714.77	16.38	716.81
17.98	712.20	13.43	712.60	19.93	714.86	25.63	717.48
18.39	711.99	14.28	712.65	PK 7140.00		PK 7200.00	
20.64	712.45	18.70	712.83	-21.59	712.98	-27.54	715.34
PK 7020.00		PK 7080.00		-16.43	713.26	-20.22	715.78
-18.81	709.33	-21.74	711.00	-9.85	713.56	-12.43	716.12
-12.46	709.74	-13.77	711.35	-5.43	713.81	-5.73	716.49
-7.19	710.02	-6.64	711.60	-2.43	714.05	-2.09	716.75
-2.83	710.32	-2.50	711.95	-0.79	714.72	-1.62	717.00
-1.49	710.71	-2.13	712.18	0.00	714.72	-0.67	717.03
-0.84	710.74	-0.52	712.53	0.27	714.72	0.00	717.03
0.00	710.74	0.00	712.51	4.75	714.72	0.25	717.05
0.46	710.76	0.46	712.55	5.28	714.74	4.86	717.05
4.80	710.76	4.73	712.60	5.98	714.74	5.70	717.07
5.70	710.85	5.24	712.60	6.62	714.51	7.01	716.89
6.35	710.67	6.07	712.69	8.32	714.62	7.89	716.96
8.15	711.50	8.94	713.06	10.81	714.78	9.33	717.42
12.64	711.66	9.77	712.81	15.64	715.06	14.11	717.72
13.72	711.96	12.03	712.97	22.06	715.38	19.89	718.06
14.51	711.96	17.59	713.22	PK 7160.00		24.42	718.41
15.11	711.66	20.12	713.50	-27.89	714.19	PK 7220.00	
16.50	712.58	PK 7100.00		-22.58	714.38	-30.36	715.45
17.45	712.26	-21.38	711.56	-15.34	714.68	-28.42	716.21
19.56	712.56	-15.35	711.91	-9.20	714.86	-27.31	716.00
PK 7040.00		-9.02	712.19	-3.94	715.07	-21.35	716.46
-19.10	709.90	-6.51	712.39	-2.94	715.14	-13.93	716.90
-15.30	710.01	-2.64	712.69	-1.80	715.51	-8.41	717.11
-6.84	710.45	-2.18	712.97	-0.70	715.56	-5.27	717.34
-2.59	710.68	-1.61	713.25	0.00	715.56	-1.83	717.62
-2.23	711.03	-0.51	713.25	0.27	715.56	-0.58	717.80
-1.37	711.10	0.00	713.23	4.77	715.60	0.00	717.83
-0.93	711.10	0.41	713.23	5.59	715.60	0.30	717.85
0.00	711.22	4.80	713.34	6.74	715.42	4.93	717.89
0.48	711.26	5.53	713.34	8.34	715.65	5.75	717.87
4.77	711.28	6.99	713.04	10.30	716.20	7.25	717.62
5.43	711.31	8.57	713.59	11.44	716.27	9.42	718.66
6.37	711.05	9.31	713.32	16.51	716.34	13.19	718.68
7.92	711.84	12.60	713.66	22.89	716.78	18.98	719.03
8.78	711.84	16.62	713.94			26.87	719.56
10.85	711.75	19.55	714.10				
13.38	711.91						
14.42	712.14						
14.87	711.72						
16.21	712.62						
16.63	712.42						
18.44	712.58						

PK 7240.00		PK 7280.00		PK 7300.00		PK 7320.00	
-51.79	714.10	-75.99	714.45	-81.83	715.08	-81.92	715.50
-44.34	714.44	-65.90	715.15	-76.46	715.39	-67.62	716.47
-35.26	715.05	-55.22	715.63	-63.29	716.10	-56.74	717.20
-31.30	715.48	-49.99	715.77	-50.97	716.78	-50.49	717.63
-28.75	716.46	-49.45	715.81	-42.21	717.05	-45.71	717.93
-27.86	716.46	-48.37	715.81	-37.73	717.33	-41.40	718.32
-16.17	717.39	-44.87	712.31	-36.73	717.35	-40.17	718.77
-6.90	717.87	-41.40	713.06	-30.52	713.92	-37.99	718.91
-2.15	718.19	-36.58	713.75	-25.12	716.62	-34.61	719.54
-1.64	718.39	-33.12	714.54	-24.26	716.60	-30.93	719.57
-0.69	718.48	-28.81	717.52	-22.35	716.60	-27.36	719.47
0.00	718.51	-27.91	717.88	-16.17	716.89	-24.72	719.61
4.85	718.57	-26.14	717.88	-15.71	717.92	-22.40	719.91
5.58	718.57	-17.33	718.40	-15.06	717.92	-19.85	719.97
6.83	718.35	-9.03	718.97	-14.53	719.14	-14.77	715.72
9.08	719.51	-4.05	719.36	-13.76	719.01	-5.85	717.70
9.45	719.35	-2.21	719.97	-11.03	719.12	-2.26	717.84
13.42	719.57	-0.92	720.11	-6.19	720.19	-1.68	721.07
20.77	720.01	0.00	720.16	-2.53	720.60	0.00	721.23
29.55	720.64	4.49	720.11	-0.30	720.92	3.34	721.16
38.60	721.14	5.34	719.97	0.00	720.90	4.47	721.16
46.53	721.44	6.15	720.00	4.04	720.80	5.66	720.07
48.39	721.71	8.29	720.86	5.15	720.80	7.31	720.16
49.80	721.71	11.34	720.95	7.47	721.35	8.93	721.36
PK 7260.00		17.81	721.41	10.58	721.28	11.96	721.43
-65.51	711.49	28.03	722.20	17.06	721.35	15.36	722.50
-63.21	711.67	31.17	722.43	19.38	721.33	18.77	724.36
-59.10	713.28	32.80	722.56	21.90	722.71	24.02	724.48
-55.00	714.81	37.30	722.70	23.79	722.80	33.97	724.66
-51.79	715.49	39.30	723.18	30.45	723.17	43.18	724.84
-49.40	715.03	40.46	724.43	33.49	723.40	45.91	725.68
-44.18	715.28	41.87	724.25	37.45	724.26	49.41	726.98
-37.67	715.67	44.66	724.27	39.18	724.53	52.23	726.77
-33.60	716.17	49.94	724.75	42.64	724.62	57.40	726.95
-32.54	716.26	55.67	725.63	49.22	725.49		
-31.49	716.49	62.18	726.63	55.68	726.40		
-30.10	717.24			60.28	727.17		
-29.45	717.08						
-24.76	717.42						
-14.08	717.97						
-6.60	718.44						
-2.08	718.85						
-1.53	719.17						
-0.91	719.24						
0.00	719.29						
4.72	719.31						
5.49	719.31						
5.95	719.35						
6.68	719.17						
8.85	720.35						
9.38	720.17						
11.82	720.24						
17.25	720.56						
25.51	721.13						
36.89	721.92						
41.72	722.15						
45.83	722.54						
46.35	724.19						
48.05	724.15						
52.11	724.35						
57.24	724.76						
60.75	725.29						

PK 7340.00							
-83.04	715.51			PK 7440.00		PK 7500.00	
-76.71	715.99	PK 7380.00	-20.13	-17.67	719.55	-17.34	718.76
-73.10	716.17		-18.25	-13.78	719.70	-12.29	719.08
-72.62	716.45		-14.98	-9.40	719.89	-8.48	719.24
-71.65	716.33		-10.78	-7.24	720.61	-7.87	719.54
-69.99	717.29		-8.07	-6.64	720.55	-6.98	719.56
-69.19	718.01		-7.15	-5.64	720.55	-4.24	720.89
-63.70	718.13		-5.53	-1.07	720.48	-3.47	720.89
-59.72	718.06		-4.30	-0.40	720.48	-2.91	720.89
-52.45	718.42		-3.73	0.00	720.46	0.00	720.99
-46.26	718.85		0.00	1.13	720.68	1.12	720.86
-41.62	719.26		0.47	6.52	720.96	2.57	720.86
-37.76	719.49		1.46	12.40	721.05	3.91	720.32
-33.26	719.90		2.30	19.52	721.71	5.36	720.12
-29.80	720.31		4.09	22.57	723.41	7.49	720.21
-26.07	720.13		4.38	25.96	723.59	11.46	720.30
-24.14	721.40		14.77	PK 7460.00		16.17	720.48
-21.64	721.04		24.82	-18.21	719.17	21.80	720.71
-14.94	720.88		27.32	-11.71	719.53	PK 7520.00	
-8.23	721.01			-8.68	719.85	-17.14	718.95
-2.71	720.97	PK 7400.00	-20.76	-6.31	720.51	-10.75	719.33
-1.41	721.11		-17.74	-5.71	720.51	-7.34	719.42
0.00	721.11		-14.30	-4.67	720.51	-5.39	720.06
2.47	721.04		-13.01	-0.49	720.63	-4.42	719.99
3.70	721.04		-9.64	0.00	720.63	-3.36	721.03
5.50	720.97		-7.96	1.15	720.56	-2.25	721.10
8.41	720.26		-6.64	2.56	720.49	0.00	721.17
12.48	718.60		-5.60	6.93	720.72	1.74	721.10
15.05	718.40		-5.03	13.25	720.90	2.20	721.05
17.88	719.65		-0.71	17.57	721.08	2.87	721.03
20.65	720.38		0.00	24.81	721.58	5.48	720.01
23.45	721.56		0.95	PK 7480.00		6.16	720.10
PK 7360.00			2.63	-20.10	718.86	8.42	720.05
-20.99	720.42		8.38	-13.51	719.18	13.48	720.35
-13.30	720.85		11.63	-7.85	719.43	20.68	720.73
-8.23	721.03		16.56	-7.05	719.77	PK 7540.00	
-6.14	721.42		24.48	-5.32	720.63	-19.30	718.08
-4.78	721.56		29.13	-4.37	720.77	-18.84	718.33
-3.60	720.74		PK 7420.00	-3.78	720.77	-17.00	718.49
-2.99	720.99		-19.27	0.00	720.82	-15.56	719.49
-2.46	721.01		-15.33	0.43	720.86	-14.88	719.33
0.00	721.06		-9.80	0.78	720.86	-9.69	719.62
1.56	720.99		-9.26	2.53	720.82	-5.74	719.85
2.99	720.99		-6.69	3.64	720.20	-3.12	721.30
4.49	721.94		-5.80	6.14	720.34	-2.67	721.30
5.70	723.37		-1.17	10.86	720.43	-1.78	721.30
9.38	723.24		-0.35	15.09	720.63	0.00	721.35
12.29	723.33		0.00	22.39	720.95	2.15	721.21
14.04	723.03		2.35			3.08	721.21
15.86	723.28		5.80			3.87	721.21
19.09	723.31		13.72			6.04	720.42
20.31	723.67		14.16			8.55	720.51
23.29	723.51		15.46			13.00	720.53
23.77	724.78		16.64			19.20	720.76
27.34	724.67		19.81				
			22.35				
			24.71				
			27.54				

		19.75	723.53				
PK 7560.00		PK 7640.00		PK 7700.00		PK 7760.00	
-16.31	720.23	-17.81	722.64	-17.02	724.52	-18.06	725.88
-15.65	720.14	-13.62	722.75	-10.33	724.95	-13.56	726.13
-13.01	720.23	-8.78	723.00	-5.14	725.22	-13.01	726.22
-8.10	720.39	-4.62	723.21	-3.92	725.31	-11.33	726.47
-4.93	720.53	-2.93	723.30	-3.03	725.44	-5.25	727.51
-2.98	721.50	-2.28	723.30	0.00	725.54	-4.53	727.44
-2.50	721.50	0.00	723.37	1.77	725.44	-3.35	727.44
-1.53	721.57	2.35	723.32	2.50	725.44	0.00	727.65
0.00	721.64	3.02	723.32	3.34	725.24	1.36	727.65
2.40	721.58	3.99	723.25	3.48	725.74	2.24	727.62
3.46	721.58	5.50	723.82	14.06	726.60	2.56	727.35
3.99	721.58	7.43	723.75	16.26	726.78	4.04	728.14
4.94	721.15	12.17	723.84	21.63	727.23	7.63	728.32
5.66	720.81	15.71	723.98	26.11	727.44	14.87	728.53
8.11	720.97	20.13	724.13	30.42	727.64	23.63	728.91
12.24	721.04			35.72	727.71	29.70	729.34
19.06	721.11	PK 7660.00		43.11	728.12	PK 7780.00	
PK 7580.00		-17.43	723.25	PK 7720.00		-18.17	727.36
-17.97	720.38	-12.77	723.43	-17.77	725.04	-13.81	727.72
-12.30	720.53	-10.15	723.52	-15.17	725.16	-7.04	727.93
-8.41	720.78	-6.28	723.84	-8.12	725.52	-3.89	728.06
-4.51	721.05	-4.99	724.04	-4.51	725.79	-3.16	728.13
-2.77	721.82	-3.46	723.90	-3.83	726.02	0.00	728.27
-1.64	721.85	-2.69	724.04	-3.10	726.02	1.38	728.13
0.00	721.92	0.00	724.09	0.00	726.18	2.45	728.02
2.53	721.85	2.12	724.06	1.60	726.04	4.20	728.70
3.62	721.80	2.66	724.06	2.10	726.08	7.07	728.63
5.21	721.44	3.28	723.99	3.01	725.97	14.82	728.94
7.46	721.48	3.73	723.72	4.36	727.38	23.19	729.35
11.59	721.51	4.26	724.33	6.89	727.40	29.79	729.78
17.89	721.64	6.23	724.49	14.16	727.65	PK 7800.00	
PK 7600.00		11.18	724.61	22.50	727.99	-17.63	728.07
-17.58	721.11	17.00	724.79	33.65	728.51	-12.28	728.21
-12.71	721.34	26.25	724.99	PK 7740.00		-7.90	728.30
-7.69	721.45	26.44	725.65	-17.72	725.48	-5.40	728.47
-4.61	721.72	28.30	725.62	-13.68	725.68	-3.94	728.49
-4.04	722.27	29.91	725.62	-8.97	725.95	-3.36	728.49
-2.76	722.20	34.65	725.90	-7.05	726.23	0.00	728.57
-1.76	722.22	40.94	726.26	-5.54	726.57	1.20	728.47
0.00	722.27	PK 7680.00		-4.17	726.70	1.53	728.47
2.41	722.20	-16.99	724.07	-3.24	726.72	2.09	728.47
3.24	722.22	-11.54	724.30	0.00	726.91	2.71	728.16
4.05	722.06	-5.43	724.64	1.49	726.81	4.76	729.14
4.84	722.24	-3.75	724.64	2.26	726.79	7.16	729.14
5.39	722.11	-2.96	724.68	2.56	726.63	11.73	729.52
7.85	722.11	0.00	724.78	4.28	727.77	17.76	730.02
12.73	722.20	1.92	724.73	5.40	727.83	22.35	730.37
18.26	722.36	4.65	724.75	10.31	727.95	28.33	730.85
PK 7620.00		7.89	724.82	17.57	728.24	PK 7820.00	
-18.05	721.74	25.19	726.56	26.58	728.63	-18.77	728.43
-12.43	721.99	28.93	726.72	30.99	728.83	-14.92	728.47
-7.99	722.29	33.96	726.99			-9.65	728.54
-4.38	722.56	39.60	727.35			-5.51	728.64
-2.80	722.56					-4.05	728.69
-1.98	722.65					-3.40	728.71
0.00	722.70					0.00	728.74
2.47	722.65					1.19	728.66
3.45	722.65					2.09	728.66
4.13	722.49					2.92	728.52
5.25	723.15					5.66	729.88
6.65	722.99					9.87	730.07
11.57	723.13					16.86	730.88
16.44	723.31					20.93	730.90



29.23	731.33						
PK 7840.00		PK 7900.00		PK 7960.00		PK 8020.00	
-18.86	728.88	-17.87	729.12	-23.84	724.18	-26.98	726.43
-14.16	728.95	-10.35	729.55	-19.62	725.03	-23.70	726.69
-8.37	728.97	-6.77	729.57	-15.99	727.18	-21.13	727.34
-5.56	728.85	-6.25	729.57	-11.25	728.21	-13.44	727.84
-5.02	728.73	-5.58	729.12	-8.61	728.28	-9.84	727.93
-4.19	728.80	-4.90	729.14	-6.10	728.33	-7.91	728.34
-3.61	728.80	-3.86	729.14	-4.76	729.30	-5.71	729.07
0.00	728.88	0.00	729.17	-3.90	729.30	-4.79	729.34
1.20	728.90	1.00	729.19	0.00	729.33	-3.99	729.34
1.91	728.92	1.68	729.19	0.85	729.39	0.00	729.34
2.63	728.66	2.15	729.02	1.27	729.39	0.32	729.40
5.88	730.23	5.29	731.00	1.96	728.13	1.48	729.35
9.29	730.35	8.05	731.05	7.61	725.98	3.15	728.81
15.66	730.90	14.46	731.38	23.78	726.27	9.26	729.21
21.19	731.47	21.39	731.88	32.47	726.94	19.13	729.45
28.80	731.99	30.23	732.64	PK 7980.00		22.38	730.64
PK 7860.00		PK 7920.00		-33.63	726.84	26.44	730.76
-19.18	729.00	-19.00	728.95	-31.82	727.72	27.49	731.26
-13.03	729.09	-11.30	729.30	-25.11	727.89	33.43	731.69
-8.51	729.29	-7.25	729.45	-18.56	728.01	40.78	732.04
-6.19	729.32	-6.44	729.49	-12.01	728.32	PK 8040.00	
-5.57	728.82	-5.83	728.87	-8.09	728.61	-27.56	725.98
-4.68	729.08	-4.87	729.21	-7.32	728.87	-24.07	726.12
-3.52	729.08	-3.77	729.21	-6.22	729.22	-22.61	726.60
0.00	729.06	0.00	729.26	-4.39	729.37	-19.40	727.55
1.14	729.12	0.77	729.21	-3.65	729.39	-18.11	727.98
1.89	729.09	1.96	729.09	0.00	729.42	-14.96	727.21
2.78	729.07	4.74	730.87	0.46	729.51	-11.50	727.55
5.08	730.43	7.52	730.95	1.27	729.51	-8.92	728.05
8.24	730.57	11.17	731.02	2.02	729.18	-6.05	729.12
13.79	730.83	17.14	731.37	3.51	729.82	-4.71	729.36
20.03	731.40	22.05	731.78	6.24	729.91	-4.08	729.38
24.51	731.83	27.34	732.23	10.83	729.99	0.00	729.41
29.87	732.31	31.35	732.59	16.71	730.11	0.79	729.45
PK 7880.00		PK 7940.00		25.33	730.51	3.27	728.71
-19.36	729.05	-17.09	728.38	27.33	731.77	9.92	728.98
-15.75	729.12	-10.64	728.92	28.62	731.70	11.14	729.62
-9.48	729.43	-8.29	729.09	32.08	731.65	15.86	729.86
-6.32	729.59	-5.60	729.26	PK 8000.00		16.65	730.10
-5.18	728.95	-3.85	729.31	-27.02	727.62	17.19	730.31
-4.86	729.05	0.00	729.31	-24.80	727.71	18.45	730.24
-3.74	729.07	0.57	729.33	-19.99	727.83	24.26	730.74
0.00	729.10	1.40	729.33	-14.47	728.07	33.14	731.26
1.07	729.12	2.22	729.16	-9.59	728.31		
2.27	729.02	4.92	730.57	-7.45	728.50		
5.40	730.69	7.60	730.66	-6.96	728.45		
8.56	730.90	14.70	730.95	-4.88	729.38		
14.27	731.09	21.28	731.45	-3.78	729.38		
21.96	731.71	25.61	731.80	0.00	729.36		
29.61	732.36	31.68	732.19	1.33	729.33		
				2.16	729.02		
				3.15	729.50		
				5.39	729.47		
				12.87	729.71		
				21.83	730.07		
				30.80	730.76		
				32.59	732.14		
				32.93	732.14		
				36.72	732.21		
				38.41	732.09		
				43.03	732.35		
				48.84	732.59		

PK 8060.00		PK 8120.00		PK 8180.00		PK 8220.00			
-39.04	725.50	-32.65	726.05	-40.67	726.00	-62.05	723.59		
-30.70	725.86	-27.43	726.31	-33.99	726.15	-58.60	723.72		
-25.92	726.07	-22.10	726.53	-26.04	726.43	-56.05	723.90		
-23.13	726.46	-17.41	726.84	-17.34	726.84	-55.23	723.90		
-21.10	726.96	-14.43	727.08	-12.43	727.10	-50.84	726.07		
-19.28	727.00	-12.48	727.34	-10.61	727.34	-49.55	725.96		
-16.16	727.53	-6.65	729.41	-5.89	729.62	-43.49	726.21		
-13.79	728.26	-4.51	729.53	-4.91	729.62	-35.15	726.30		
-10.00	728.48	0.00	729.51	-0.23	729.72	-28.12	726.57		
-7.06	729.03	1.33	729.58	0.00	729.65	-22.60	726.82		
-6.32	729.29	1.73	729.46	0.99	729.81	-18.67	727.06		
-4.39	729.41	7.04	729.58	1.44	729.65	-17.21	727.20		
0.00	729.46	18.07	730.36	2.20	729.91	-15.74	727.13		
3.32	729.43	19.53	731.05	6.73	730.00	-14.79	727.43		
5.47	729.29	24.22	731.46	14.10	730.53	-13.57	728.92		
6.46	729.41	28.77	731.96	15.32	731.24	-11.95	729.14		
7.02	729.26			17.63	731.38	-9.91	729.41		
11.71	729.38	PK 8140.00	-32.11	726.08	24.97	732.17	-8.41	729.35	
19.68	729.84		-23.85	726.44	32.05	732.98	-6.66	729.71	
22.65	729.93		-16.61	726.72			-5.56	729.75	
24.87	730.72		-12.73	726.96	PK 8200.00	-55.11	723.69	-4.90	729.78
30.87	730.91		-11.41	726.98		-50.44	725.85	-0.47	729.82
PK 8080.00			-6.97	729.46		-49.26	725.74	0.00	729.78
-32.64	725.93		-5.69	729.63		-45.07	725.99	0.96	729.75
-29.58	726.07		-4.62	729.65		-36.52	726.06	5.17	730.43
-21.98	726.50		0.00	729.56		-29.93	726.31	8.09	730.59
-17.53	726.78		1.13	729.63		-21.66	726.58	13.51	730.97
-15.04	727.16		1.65	729.44		-17.08	726.80	21.07	731.56
-12.43	728.16		2.20	729.56		-13.35	727.05	29.30	732.31
-9.59	728.59		6.17	729.60		-11.27	727.26	37.55	733.46
-7.23	728.66		17.89	730.39		-7.07	729.31	39.04	733.62
-5.87	729.31		19.30	731.13		-5.84	729.67	41.40	734.32
-4.28	729.43		21.79	731.44		-5.00	729.67	44.14	735.85
0.00	729.43		29.08	732.41		-0.28	729.72	47.28	735.83
1.21	729.47	PK 8160.00				0.00	729.70	49.80	736.44
2.09	729.12		-32.53	726.07		1.12	729.74	54.29	738.68
2.70	729.23		-24.62	726.40		1.37	729.67	57.85	739.08
5.31	729.23		-18.59	726.66		1.86	729.76	60.83	739.35
12.83	729.59		-13.24	726.92		7.01	729.90	63.61	740.51
17.71	729.88		-10.16	727.14		12.21	730.15	64.93	739.92
21.70	730.14		-6.70	729.31		13.60	730.98	66.16	740.57
23.16	730.81		-5.61	729.66		13.88	730.89		
23.47	730.73		-4.79	729.66		18.74	731.23		
25.94	730.88		0.00	729.62		25.88	732.02		
30.31	731.23		1.10	729.73		34.91	733.15		
PK 8100.00			1.67	729.52		41.50	733.83		
-31.81	726.28		2.24	729.78		44.26	735.73		
-25.55	726.61		5.58	729.95		50.74	736.13		
-19.43	726.90		16.17	730.66		52.44	736.95		
-14.71	727.16		17.42	731.40		55.81	737.13		
-12.22	727.45		17.76	731.26		60.17	738.01		
-5.99	729.45		22.57	731.52					
-4.43	729.57		30.86	732.54					
0.00	729.50								
1.26	729.44								
1.95	729.28								
3.82	729.35								
10.63	729.64								
17.46	730.14								
20.23	730.33								
21.03	730.85								
23.40	730.99								
28.50	731.47								

PK 8240.00		PK 8260.00		PK 8300.00		PK 8340.00	
-57.56	723.97	-64.77	724.52	-44.65	727.61	-45.20	728.43
-55.76	724.20	-56.18	725.13	-38.79	727.97	-35.72	729.67
-54.60	724.29	-46.18	726.17	-33.44	728.49	-32.74	729.90
-51.73	726.21	-36.32	726.82	-28.36	728.92	-32.27	730.17
-50.52	726.00	-30.04	727.16	-25.07	729.17	-31.56	730.08
-42.33	726.46	-26.33	727.34	-23.07	729.10	-28.48	730.96
-32.36	726.75	-25.85	727.50	-19.79	731.43	-26.75	731.93
-26.02	726.91	-23.74	727.71	-19.15	731.61	-25.78	731.91
-21.98	727.16	-21.01	728.77	-18.49	731.27	-19.86	732.36
-21.17	727.20	-19.97	729.26	-16.12	731.29	-14.35	732.72
-20.64	727.07	-15.55	729.47	-10.80	731.29	-7.30	732.95
-19.69	727.65	-10.70	729.63	-6.70	731.38	-2.49	732.97
-18.86	727.97	-8.29	729.78	-6.03	731.38	-1.59	732.97
-17.15	728.20	-7.87	729.96	-1.35	731.45	-1.23	732.84
-16.41	728.87	-6.32	730.05	-0.77	731.45	0.00	734.22
-12.06	729.05	-5.00	730.08	0.00	731.34	3.31	737.29
-7.93	729.33	-0.68	730.17	1.27	731.90	7.61	737.54
-6.48	729.82	0.00	730.15	3.13	733.35	11.03	738.12
-5.93	729.91	0.44	730.10	6.74	733.80	13.70	738.28
-4.90	729.94	1.09	729.99	12.50	734.50	16.05	740.34
-0.64	729.91	3.03	731.07	14.69	734.70	16.61	740.34
0.00	729.94	7.04	731.52	17.04	736.15	17.14	739.68
0.59	729.94	14.03	732.38	18.84	737.71	18.08	740.18
1.10	729.82	20.95	733.33	23.58	738.04	19.94	740.20
2.34	730.30	28.29	734.26	28.85	738.74	23.94	740.68
6.65	730.59	31.53	734.57	PK 8320.00		26.32	741.87
12.13	731.22	33.31	735.36	-42.39	728.34	28.48	741.58
17.03	731.90	33.76	736.13	-39.70	728.65	32.04	741.99
23.25	732.67	38.40	738.91	-32.83	729.42	34.05	742.57
30.92	733.62	39.69	739.09	-27.35	730.08	PK 8360.00	
37.89	734.41	PK 8280.00		-25.56	730.19	-51.34	727.61
40.32	734.86	-53.62	726.13	-23.16	732.16	-44.13	728.35
41.40	736.44	-41.46	727.03	-20.07	732.10	-40.06	728.67
46.30	739.22	-33.54	727.66	-14.30	732.21	-39.79	728.96
49.85	739.54	-27.24	728.23	-11.08	732.41	-38.26	729.21
54.61	740.03	-23.13	728.59	-9.47	732.46	-36.66	730.05
54.91	739.72	-22.12	728.70	-9.12	732.28	-35.88	730.00
55.98	739.74	-21.51	728.43	-8.16	732.21	-32.33	730.00
57.23	740.48	-18.55	730.22	-6.79	732.21	-30.71	729.95
60.46	740.76	-16.20	730.18	-2.06	732.30	-29.12	730.45
		-9.60	730.38	-1.54	732.30	-22.50	730.99
		-6.41	730.56	-1.19	732.32	-13.56	733.03
		-5.46	730.56	-0.73	732.16	-10.19	733.09
		-0.50	730.67	0.00	732.62	-8.08	733.68
		0.00	730.61	2.70	735.07	-6.61	733.68
		0.85	730.49	6.92	735.25	-2.62	733.59
		3.45	732.11	10.62	737.60	-2.01	733.59
		7.66	732.34	15.20	738.12	-1.28	733.57
		14.22	733.24	17.89	738.57	0.00	733.80
		19.75	733.83	20.34	738.91	2.07	734.36
		22.89	734.12	22.21	740.24	2.78	734.36
		23.95	734.51	22.62	740.24	5.52	733.30
		26.59	737.04	23.66	739.81	7.31	734.16
				24.84	740.81	9.52	734.68
				28.75	741.10	10.67	736.78
				33.53	741.73	12.77	736.87
						15.31	738.00
						19.14	738.29
						22.54	738.47
						24.70	737.25
						25.81	737.34
						28.10	741.09

PK 8380.00		PK 8420.00		PK 8460.00		PK 8500.00	
-18.51	730.98	-16.81	732.43	-16.93	733.58	-17.42	735.12
-14.63	731.25	-13.65	732.61	-14.18	733.92	-15.93	735.21
-11.65	732.04	-10.64	732.73	-11.43	734.23	-15.04	735.56
-8.36	733.71	-6.42	735.33	-10.35	734.98	-12.41	735.89
-7.09	734.14	-4.92	735.83	-9.38	735.07	-8.35	736.33
-6.77	734.17	-3.83	735.87	-6.25	736.90	-6.72	736.97
-5.68	734.17	0.00	735.90	-5.10	737.33	-4.11	739.05
-1.53	734.28	0.63	735.85	-3.14	737.53	-1.51	739.18
-0.93	734.26	1.64	735.85	-2.28	737.53	0.00	739.25
-0.60	734.21	2.40	735.78	0.00	737.58	3.17	739.20
0.00	734.08	5.26	737.57	2.36	737.58	3.75	739.20
0.81	733.80	10.29	738.13	3.22	737.58	4.48	739.02
3.38	735.27	11.41	739.40	3.99	737.42	7.17	740.88
5.21	735.59	18.14	740.14	5.19	738.41	9.05	740.55
9.70	735.97	18.76	740.53	8.33	740.92	10.22	740.92
10.35	736.92	19.45	740.25	9.90	740.56	12.15	742.86
13.19	737.22	22.21	742.51	12.47	743.45	12.81	744.28
16.76	737.33	23.18	742.83	14.77	743.31	17.62	745.31
17.44	738.48	25.55	744.73	18.08	743.58	19.51	746.88
22.98	738.84	27.24	744.82	19.05	745.53	22.44	747.46
24.48	740.38	28.81	746.87	22.32	746.02	26.52	749.66
25.72	741.01	31.10	748.36	24.81	747.02	28.54	750.55
27.00	740.33	PK 8440.00		29.10	749.50	PK 8520.00	
PK 8400.00		-18.66	732.08	PK 8480.00		-17.34	735.95
-17.96	731.06	-17.12	732.17	-16.09	734.49	-14.41	736.41
-13.17	731.29	-15.76	732.73	-12.22	734.94	-11.74	736.85
-10.45	731.58	-13.19	732.96	-10.21	735.30	-9.25	737.23
-6.89	734.72	-12.90	734.36	-9.42	735.66	-7.80	737.73
-5.82	734.90	-12.01	734.50	-8.77	735.39	-4.30	739.83
-4.70	734.92	-7.72	735.04	-7.64	736.97	-2.74	740.14
-0.53	735.04	-5.06	736.33	-6.92	737.11	-1.58	740.14
0.00	735.04	-3.66	736.71	-4.99	738.15	0.00	740.21
0.53	735.01	-2.90	736.73	-2.48	738.40	3.33	740.25
1.65	734.76	0.00	736.76	-1.80	738.40	3.87	740.23
2.95	736.14	1.51	736.80	0.00	738.38	4.59	739.98
6.45	736.39	2.61	736.82	2.92	738.53	6.68	741.62
10.39	736.84	3.43	736.80	3.65	738.53	9.62	740.65
11.29	738.11	4.35	737.36	4.34	738.44	10.59	741.20
17.71	738.85	6.08	739.26	7.04	740.72	12.64	745.33
19.09	739.71	9.91	739.51	7.68	740.75	15.45	746.43
22.56	740.14	11.15	741.49	8.17	740.68	18.02	747.84
24.06	742.15	12.08	741.65	8.74	740.11	20.75	748.66
26.22	742.72	14.17	740.43	10.76	743.07	23.18	750.07
28.52	744.55	16.32	742.31	13.20	743.80	24.90	750.38
		18.45	742.33	14.73	743.73	28.04	752.48
		19.67	743.48	15.70	745.97		
		22.03	743.71	20.90	746.73		
		22.44	744.52	22.21	749.17		
		24.52	744.72	24.37	749.40		
		26.66	746.30	25.65	749.49		
		29.34	748.88	28.39	750.03		
		30.55	749.58				
		32.52	749.87				



PK 8540.00		PK 8580.00		PK 8620.00		PK 8680.00	
-18.52	734.88	-17.27	737.05	-17.16	732.16	-17.20	734.82
-14.71	737.68	-14.26	740.56	-15.61	732.12	-13.54	738.44
-11.24	740.07	-11.31	741.02	-13.71	733.82	-10.76	739.65
-9.49	740.11	-9.23	741.37	-11.63	734.96	-8.99	740.49
-7.33	739.89	-6.97	742.81	-9.13	736.47	-7.86	740.69
-5.61	740.80	-4.61	742.74	-6.81	737.99	-6.63	740.03
-1.65	740.91	-1.49	742.83	-4.97	740.00	-5.93	741.72
0.00	741.00	0.00	742.88	-3.90	740.20	-5.17	742.52
3.28	740.95	3.07	742.76	-1.95	740.81	-3.12	742.92
3.94	740.93	3.82	742.74	-1.69	745.27	0.00	743.65
4.45	740.86	4.36	742.57	-1.32	745.32	0.28	747.35
6.43	742.47	5.53	743.14	-1.25	744.48	0.72	747.35
7.22	742.47	7.12	744.86	0.00	744.57	0.85	746.89
9.37	740.71	8.29	747.60	4.16	744.63	5.89	747.09
11.34	743.69	11.60	749.14	4.92	744.61	6.76	746.91
13.07	745.32	15.82	752.52	5.45	744.52	7.55	748.10
14.76	746.16	17.85	754.22	8.44	746.73	9.67	749.67
17.73	747.09	18.79	753.91	10.83	749.77	10.68	750.04
20.85	749.01	21.47	755.43	14.20	750.63	11.66	751.17
23.67	749.89	25.31	757.49	18.94	754.58	17.93	751.63
27.78	752.67	27.74	758.99	19.53	754.36	PK 8700.00	
PK 8560.00		PK 8600.00		20.78	755.09	-15.33	738.90
-20.37	736.14	-16.99	733.90	23.78	756.35	-14.05	739.19
-17.88	736.39	-13.67	736.71	PK 8640.00		-13.13	740.78
-14.98	737.49	-10.97	738.70	-17.86	730.73	-12.49	740.69
-12.49	738.64	-8.76	741.22	-15.99	731.09	-9.87	742.83
-9.23	739.41	-6.78	742.92	-12.06	732.70	-6.61	744.47
-7.37	739.87	-5.25	743.78	-7.05	734.88	-3.52	746.92
-4.11	741.66	-2.00	743.82	-4.33	736.45	-2.39	747.86
-3.00	741.81	-1.27	743.84	-2.34	739.12	0.00	747.98
-1.56	741.88	0.00	743.87	-0.80	740.00	0.90	747.89
0.00	741.93	3.28	743.86	-0.63	746.10	5.44	747.93
3.39	741.86	4.04	743.83	-0.34	746.10	6.55	747.80
3.98	741.84	4.68	743.59	-0.27	745.48	8.32	749.45
4.64	741.53	5.84	744.85	0.00	745.46	12.13	751.02
5.71	741.95	9.06	748.18	5.49	745.43	15.38	754.44
7.63	744.40	10.99	749.84	5.67	745.43	16.32	754.35
9.40	745.43	13.69	750.39	6.09	745.19	18.27	755.63
9.92	745.54	17.21	753.21	7.24	745.61	19.73	756.65
11.13	746.47	18.51	754.10	9.74	748.66	21.12	757.91
11.90	747.97	19.05	754.10	12.92	751.04	21.84	757.93
15.13	749.74	22.28	756.08	13.92	751.22	PK 8720.00	
20.38	754.15	25.74	757.10	16.61	752.78	-16.40	740.75
21.26	754.24	31.20	761.00	PK 8660.00		-14.97	740.70
21.86	753.84			-15.82	728.17	-10.47	745.96
22.34	755.06			-14.12	728.79	-9.02	746.21
24.12	755.52			-11.23	730.13	-5.93	748.50
26.05	756.12			-7.96	731.46	-0.52	748.75
29.03	757.99			-5.33	733.75	0.00	748.75
				-2.65	734.99	4.14	748.70
				-0.14	738.83	5.65	748.55
				0.00	747.00	6.31	750.58
				0.45	746.97	9.25	753.20
				0.63	746.00	12.14	754.77
				5.75	746.24	13.08	754.62
				7.43	746.40	14.48	756.43
				9.22	748.14	18.25	757.29
				10.72	749.14	20.94	758.83
				14.36	752.18	23.03	761.28
				17.61	752.76	25.75	761.94
						27.89	763.75

PK 8740.00		PK 8780.00		PK 8820.00		PK 8860.00	
-16.95	739.44	-15.97	742.24	-15.56	743.03	-16.89	741.13
-13.36	742.06	-13.85	742.62	-12.77	745.22	-16.09	741.34
-9.05	747.23	-12.51	744.74	-10.49	746.39	-14.65	740.55
-6.52	749.15	-9.59	746.34	-7.55	747.09	-11.84	742.27
-5.33	749.12	-7.02	747.70	-6.49	751.10	-7.92	743.02
-3.67	749.15	-4.88	748.93	-6.40	752.17	-6.61	743.93
-3.42	749.68	-4.49	750.75	-6.04	752.12	-5.03	746.24
-3.09	749.72	-4.47	750.03	-5.99	751.40	-1.30	747.03
-3.05	749.21	-4.02	750.77	-5.00	751.52	0.00	747.43
-2.18	749.28	-3.94	750.47	-0.47	751.63	0.29	750.85
0.00	749.35	0.00	750.52	-0.36	751.52	0.39	751.62
2.47	749.32	1.55	750.58	0.00	751.50	0.74	750.99
3.19	749.35	2.30	750.49	0.31	751.47	0.76	751.62
3.49	749.10	2.93	752.38	1.56	754.45	1.42	750.99
3.82	749.21	6.30	754.73	2.90	754.59	6.72	751.03
4.34	751.60	6.70	754.73	4.88	756.22	7.16	750.71
7.80	754.84	13.71	760.72	8.19	756.90	7.94	751.45
8.30	754.84	16.76	762.82	11.47	758.81	9.84	752.38
8.72	754.51	21.47	764.63	15.56	760.46	13.17	754.83
9.76	755.86	25.22	767.01	16.74	760.88	18.05	758.70
13.09	757.75	27.40	767.27	21.26	764.40	22.10	761.96
16.85	759.54	30.14	768.90	24.84	765.38		
20.02	762.39	34.36	770.48	26.82	766.29	PK 8880.00	
22.64	762.90			28.42	768.27	-32.92	733.12
27.34	766.14	PK 8800.00		31.91	768.85	-31.07	733.26
30.04	767.11	-16.14	742.69	35.86	772.04	-28.35	734.08
32.87	768.35	-14.03	743.81			-25.51	734.80
		-12.64	744.54	PK 8840.00		-24.28	736.15
PK 8760.00		-10.93	746.33	-15.92	741.64	-23.16	736.55
-16.12	742.72	-9.71	746.87	-12.92	742.31	-18.71	737.09
-14.23	743.60	-6.08	747.80	-10.73	743.06	-16.25	737.78
-13.86	743.30	-5.61	751.06	-9.48	746.34	-13.10	740.21
-12.23	745.82	-5.51	751.60	-7.74	747.18	-11.46	740.81
-10.12	746.52	-5.08	751.60	-3.91	747.74	-9.56	743.03
-6.24	747.50	-4.95	751.06	-3.46	751.38	-8.39	744.12
-4.41	748.59	0.00	751.09	-3.41	752.14	-3.75	744.47
-4.27	750.18	0.88	750.97	-3.05	752.14	-0.94	745.85
-3.88	750.20	1.12	750.92	-2.99	751.45	0.00	746.41
-3.85	749.67	1.84	753.07	-2.26	751.47	3.19	747.69
0.00	749.95	4.75	754.77	0.00	751.52	3.42	751.37
1.75	749.87	7.49	756.82	2.41	751.45	3.84	751.51
2.81	749.75	10.67	758.33	3.24	751.31	3.93	750.85
3.41	751.94	14.22	760.80	4.52	753.84	4.55	750.76
6.97	754.60	17.14	762.15	6.79	754.71	9.29	750.72
11.41	757.33	19.37	763.83	9.94	756.92	9.81	750.69
15.96	761.29	22.87	765.39	12.79	757.95	10.01	750.58
19.13	762.54	25.85	766.65	15.43	760.02	11.74	751.88
22.28	764.83	27.63	767.58	19.81	762.70	13.77	754.07
24.92	765.81	29.62	769.07	21.85	764.68	18.96	757.82
27.00	767.62	32.97	770.00	25.75	765.73		
33.94	770.28	34.69	770.84	28.92	768.01		
				31.87	769.94		

PK 8900.00		PK 8920.00		PK 8940.00		PK 8960.00	
-50.32	728.72	-56.01	728.36	-54.32	729.00	-50.16	729.92
-44.26	729.07	-52.08	728.54	-49.59	729.21	-40.82	730.60
-41.44	729.37	-45.34	729.06	-42.97	729.75	-40.02	730.90
-40.55	729.26	-38.84	729.62	-39.22	729.93	-37.63	730.76
-38.25	730.49	-36.49	730.01	-37.79	730.14	-34.42	731.36
-35.49	732.31	-36.12	729.78	-35.41	730.45	-30.71	731.78
-31.80	732.57	-35.68	730.06	-32.68	731.38	-26.78	732.39
-27.61	732.78	-33.66	730.10	-29.93	732.66	-22.97	732.86
-25.19	734.50	-30.99	732.48	-27.94	733.71	-20.85	734.72
-22.49	735.18	-30.02	732.62	-26.33	733.34	-19.19	735.81
-19.50	736.53	-25.58	732.97	-23.58	733.43	-16.09	735.95
-18.72	736.36	-22.92	733.62	-21.33	733.66	-12.44	736.16
-15.51	736.83	-21.45	735.16	-20.68	733.59	-9.69	739.26
-13.37	737.97	-19.39	735.28	-20.26	733.99	-8.33	740.29
-12.16	739.46	-16.00	735.44	-19.50	735.32	-4.68	740.29
-10.42	740.49	-12.44	739.26	-14.04	735.22	0.00	739.99
-9.72	740.79	-10.00	740.26	-11.35	738.74	2.49	743.34
-8.65	740.72	-7.84	740.50	-9.97	739.42	3.59	744.90
-5.09	744.22	-4.40	741.10	-8.01	740.32	7.02	744.85
-3.06	744.50	-1.83	742.31	-6.80	740.14	8.71	746.37
0.00	744.92	0.00	745.51	-3.85	740.51	9.24	748.75
1.24	745.57	1.55	746.16	-1.71	741.33	9.54	749.54
3.30	746.59	6.09	746.93	0.00	744.50	9.93	749.54
5.95	748.18	8.39	749.35	2.24	745.03	9.97	748.93
6.19	750.93	8.55	750.56	4.19	745.78	10.66	748.93
6.55	751.04	9.00	750.63	6.48	745.82	15.45	749.16
6.60	750.23	9.03	750.00	8.92	746.99	15.92	749.14
7.23	750.27	9.62	750.02	9.99	749.36	16.51	748.86
12.05	750.32	14.01	750.09	10.12	750.27	18.80	750.45
12.84	750.13	14.88	749.95	10.56	750.27	PK 8980.00	
17.12	754.75	16.34	750.70	10.59	749.53	-46.24	731.14
18.14	755.00	17.75	752.03	11.07	749.53	-34.49	732.30
20.05	756.24			15.59	749.62	-29.74	732.63
				16.20	749.60	-28.34	732.98
				16.69	749.39	-23.91	733.17
				18.24	750.90	-19.74	736.36
						-16.05	736.19
						-12.60	736.45
						-11.21	737.20
						-10.58	739.20
						-9.05	740.16
						-5.42	740.32
						0.00	740.30
						1.86	740.78
						2.84	744.63
						6.10	744.95
						8.58	745.63
						9.01	748.08
						9.21	749.40
						9.56	749.40
						9.64	748.68
						10.42	748.68
						15.83	748.75
						16.11	748.33
						17.98	749.59

PK 9000.00		PK 9040.00		PK 9120.00		PK 9220.00	
-41.98	732.45	-32.32	736.07	-23.76	737.08	-26.47	734.45
-37.98	732.85	-27.91	736.68	-17.50	737.53	-24.73	734.40
-34.69	733.18	-22.14	737.24	-9.01	738.16	-21.53	734.55
-33.46	733.48	-17.79	737.68	-2.65	738.41	-13.27	734.91
-29.74	734.62	-13.06	740.80	0.00	738.51	-6.94	735.22
-27.59	735.58	-7.28	741.04	2.08	741.00	0.00	735.32
-26.82	735.30	-6.00	741.50	4.40	741.44	2.72	735.82
-19.64	736.11	-3.85	743.20	7.48	741.72	11.32	736.30
-16.99	736.56	0.00	743.30	8.20	741.42	19.29	737.11
-14.15	737.25	1.54	743.48	11.41	741.86	29.68	738.36
-11.00	739.49	3.66	744.48	18.07	742.35	40.48	739.46
-5.28	740.00	7.45	747.56	PK 9140.00		PK 9240.00	
-3.34	740.96	10.28	747.61	-25.32	735.95	-24.24	735.11
-2.27	740.77	13.50	747.63	-21.86	736.25	-14.60	735.49
-1.73	742.33	18.17	747.63	-15.62	736.65	-6.10	735.73
-1.19	742.73	PK 9060.00		-8.36	737.23	0.00	735.83
0.00	743.55	-23.33	738.16	-3.92	737.40	3.09	736.02
1.07	743.87	-18.77	738.77	0.00	737.54	10.33	736.35
6.24	744.48	-13.65	739.37	4.93	738.21	18.84	736.90
7.98	747.79	-9.74	740.26	10.76	738.70	26.08	737.43
8.87	748.27	-6.91	741.03	15.28	740.12	34.19	738.29
9.10	749.00	-5.93	741.17	19.57	741.70	40.99	738.85
9.47	748.97	-3.12	743.34	22.44	742.26	47.38	739.49
9.53	748.32	0.00	743.48	PK 9160.00		PK 9260.00	
10.28	748.32	3.07	743.61	-26.43	735.04	-22.88	735.63
14.96	748.23	6.47	745.69	-18.37	735.47	-20.53	735.82
15.38	748.20	9.31	747.60	-10.30	735.97	-15.40	735.99
16.08	748.02	10.83	747.58	-3.20	736.43	-12.26	736.16
16.96	748.76	13.98	747.41	0.00	736.60	-5.05	736.42
PK 9020.00		17.20	747.34	1.82	736.76	0.00	736.40
-35.66	735.15	21.99	747.32	9.47	737.53	3.44	736.63
-34.93	734.89	PK 9080.00		15.76	738.20	8.50	736.80
-29.41	735.24	-20.12	738.78	21.66	738.82	13.27	737.07
-21.21	736.38	-13.92	739.48	PK 9180.00		23.11	737.54
-15.77	737.08	-11.65	739.71	-28.58	734.14	35.50	738.04
-13.19	737.57	-10.56	740.18	-20.69	734.43	43.90	738.52
-9.86	740.60	-7.14	741.11	-12.69	734.84	53.06	739.07
-8.02	740.53	-4.52	743.00	-6.90	735.22	54.70	739.19
-7.18	739.83	0.00	742.84	0.00	735.66	PK 9280.00	
-5.62	740.74	1.91	743.07	3.31	735.99	-23.79	739.36
-2.55	741.58	7.98	743.67	9.32	736.57	-18.65	739.01
-1.27	743.58	10.94	745.09	18.55	737.55	-14.65	738.00
0.00	743.54	16.47	745.75	23.32	738.00	-11.63	737.50
2.33	743.51	17.94	746.56	PK 9200.00		-7.52	737.50
6.23	745.03	PK 9100.00		-27.93	733.85	0.00	737.46
9.38	747.82	-22.26	737.96	-21.89	734.09	11.68	737.48
9.55	747.94	-17.93	738.36	-12.47	734.47	25.75	737.67
9.68	748.43	-11.94	738.92	-5.82	734.88	PK 9300.00	
10.02	748.40	-9.74	739.31	0.00	735.22	-26.45	734.78
10.09	747.96	-4.37	741.85	2.80	735.55	-24.87	734.92
11.01	747.94	-3.21	741.78	9.01	736.17	-14.75	736.20
16.20	747.96	0.00	741.81	16.56	737.01	-4.99	736.35
16.75	747.87	2.61	742.20	22.34	737.64	0.00	736.38
		7.63	742.55	26.88	738.16	5.82	736.61
		12.81	743.32	30.42	738.02	23.64	737.00
		15.79	743.37			25.30	736.44



PK 9320.00		PK 9420.00		PK 9460.00		PK 9500.00	
-27.06	733.50	-30.06	735.30	-28.26	733.97	-18.19	741.49
-14.75	734.01	-22.58	735.19	-26.79	734.20	-16.86	742.04
-2.15	734.50	-11.21	735.64	-23.95	737.17	-16.41	741.94
0.00	734.75	-6.19	738.85	-18.43	737.42	-14.86	743.57
5.44	735.24	0.00	739.21	-15.66	737.55	-14.17	743.59
10.71	734.86	5.47	739.46	-13.65	740.02	-13.98	743.50
16.11	735.82	8.70	742.29	-11.80	740.73	-13.69	743.38
19.47	734.90	13.39	743.50	-6.92	740.98	-11.44	745.49
22.04	734.75	16.02	745.54	-4.81	741.16	-8.55	747.61
24.46	735.04	17.09	745.77	-4.60	743.36	-6.62	747.63
26.91	735.16	17.18	747.23	-4.31	743.36	-0.52	747.73
PK 9340.00		17.59	747.23	-4.04	743.13	-0.25	747.73
-20.22	732.53	17.59	746.64	-2.65	744.07	0.00	747.73
-14.71	732.31	18.91	746.71	-1.36	744.59	0.83	747.54
-10.64	732.58	PK 9440.00		0.00	745.83	1.37	748.52
-6.07	734.00	-32.33	734.12	0.90	746.58	4.16	752.61
0.00	733.86	-28.31	734.39	2.28	746.65	7.40	754.31
0.50	734.41	-22.46	734.65	3.16	746.74	9.36	755.74
12.67	731.83	-18.68	734.92	7.64	746.90	12.62	758.12
24.64	732.40	-16.97	736.66	8.51	746.90	17.23	761.16
PK 9360.00		-13.00	738.44	8.93	746.65	19.95	763.15
-15.03	730.95	-11.16	739.12	9.91	747.22	PK 9520.00	
-9.66	732.15	-6.48	739.24	11.19	749.98	-17.40	744.19
-5.49	732.61	-3.70	739.22	13.71	751.15	-12.26	748.22
0.00	732.91	0.00	739.21	17.70	753.02	-8.84	748.24
3.21	732.95	1.52	740.49	PK 9480.00		-8.17	748.24
6.06	733.23	2.62	743.28	-26.43	736.94	-3.13	748.33
10.74	733.50	3.88	743.37	-24.18	738.47	-2.67	748.26
19.19	733.97	4.56	742.62	-21.88	738.83	-2.00	748.01
PK 9380.00		5.21	743.30	-21.28	738.74	-0.88	749.47
-33.25	730.57	7.99	745.00	-17.11	739.20	0.00	750.46
-30.55	730.96	9.00	745.41	-16.54	741.19	1.46	751.53
-19.41	731.40	9.40	747.03	-13.48	742.03	2.05	753.31
-13.47	731.55	9.80	747.12	-11.06	742.44	4.99	754.22
-11.46	731.95	9.83	746.75	-10.55	743.65	9.81	758.18
-8.77	732.82	10.49	746.75	-10.29	743.65	12.93	759.71
-6.70	732.90	15.16	746.80	-10.29	743.36	17.27	763.11
-0.63	733.37	15.86	746.80	-9.65	743.36	21.84	766.68
0.00	733.35	16.38	746.41	-9.28	743.90	PK 9540.00	
2.30	733.47	18.02	748.93	-8.70	743.93	-18.08	747.20
6.94	735.83	19.81	750.52	-5.36	746.94	-16.39	748.32
14.11	738.00			-4.14	747.04	-15.43	748.94
PK 9400.00				-2.27	747.17	-13.88	748.89
-31.00	732.19			0.00	747.20	-11.40	749.07
-25.83	732.77			2.45	747.13	-10.67	749.10
-21.74	735.61			2.93	747.10	-5.66	749.10
-6.85	735.95			3.48	747.10	-4.72	749.10
-3.68	736.25			6.18	751.35	-4.09	748.98
0.00	738.13			9.34	751.83	-1.34	751.11
0.56	739.06			12.32	753.30	0.00	752.21
9.39	739.50			16.28	755.24	2.15	753.76
12.80	739.94			20.69	757.93	5.01	756.32
18.23	743.36					6.67	757.09
21.88	743.85					7.52	760.98
22.35	743.69					9.42	762.42
24.93	746.58					10.10	762.44
						12.55	763.77
						15.91	766.30
						19.94	768.24
						24.17	771.01
						27.00	772.31

PK 9560.00		PK 9620.00		PK 9660.00		PK 9680.00	
-20.28	745.74	-18.56	744.41	-53.18	727.06	-53.60	727.24
-17.87	747.85	-17.60	744.50	-46.28	727.52	-47.03	727.72
-15.42	749.70	-16.94	744.23	-43.49	727.91	-40.97	728.22
-14.24	749.88	-14.76	746.83	-42.91	728.75	-40.28	728.86
-13.15	749.92	-12.15	748.09	-41.20	728.59	-39.89	729.20
-8.41	749.92	-8.50	750.08	-38.69	728.82	-38.93	728.95
-8.01	749.90	-6.49	751.13	-34.02	729.46	-31.55	729.57
-7.64	749.88	-6.04	751.29	-29.50	732.54	-28.42	730.16
-7.38	749.65	-5.69	751.29	-26.85	734.07	-25.08	733.84
-3.09	754.79	-5.65	750.90	-25.48	734.33	-24.61	734.11
0.00	756.83	-5.08	750.88	-19.30	739.19	-21.03	734.59
1.98	758.49	-0.74	750.99	-18.55	739.10	-19.41	735.23
9.62	762.74	-0.18	750.99	-13.33	742.80	-17.72	737.01
13.70	765.67	0.00	750.95	-10.70	744.31	-16.11	738.04
15.27	766.26	0.82	750.65	-9.25	744.29	-14.70	738.87
18.74	768.73	3.61	753.07	-7.01	746.23	-9.54	739.60
23.20	771.68	6.33	755.38	0.00	751.49	-6.95	741.24
25.61	772.79	10.23	758.05	2.02	751.67	-4.10	743.50
PK 9580.00		15.62	761.87	3.40	751.71	-3.23	744.87
-18.89	748.68	19.82	763.97	3.61	751.92	-2.14	744.85
-16.65	750.46	PK 9640.00		3.92	751.94	-1.88	744.46
-14.89	750.58	-53.41	726.95	3.95	751.64	0.00	746.57
-13.78	750.60	-48.77	727.34	4.66	751.62	1.89	748.76
-9.14	750.37	-46.43	727.75	9.17	751.74	4.86	750.75
-8.91	750.37	-45.56	728.23	9.67	751.69	6.12	752.09
-8.68	750.28	-43.54	728.35	10.43	752.88	8.93	752.62
-6.87	752.66	-39.29	728.94	12.25	753.20	9.00	752.12
-4.29	753.59	-37.33	731.27	15.51	755.51	9.59	752.14
-3.60	754.87	-36.21	731.55	18.61	759.44	14.80	752.39
-2.95	755.63	-32.25	732.12	20.61	760.69	15.26	752.39
0.00	755.77	-30.32	733.70			16.29	752.09
2.03	756.29	-27.45	736.07			16.72	752.96
6.13	758.37	-25.88	736.92			19.39	754.88
10.03	759.88	-23.04	737.74			22.16	756.96
13.44	761.87	-21.96	739.38				
18.84	764.61	-21.05	740.44				
23.18	765.80	-17.92	741.97				
PK 9600.00		-15.28	743.47				
-18.68	746.36	-11.85	745.69				
-16.82	747.11	-8.88	748.00				
-14.81	748.64	-5.87	750.19				
-12.68	749.94	-4.71	751.22				
-11.56	750.29	-2.18	751.22				
-11.35	751.04	-0.33	751.47				
-10.98	751.06	0.00	751.43				
-10.88	750.68	3.72	751.54				
-10.15	750.79	4.09	751.52				
-5.63	750.72	4.44	751.36				
-4.88	750.74	5.98	753.25				
-4.53	750.29	9.08	754.90				
-3.18	751.66	13.38	757.55				
-1.61	752.87	17.72	760.43				
0.00	754.45	20.66	761.82				
2.07	756.57						
6.93	757.28						
11.37	759.72						
14.53	760.50						
17.45	762.99						
20.52	763.58						

PK 9700.00		PK 9720.00		PK 9740.00		PK 9780.00	
-55.10	727.41	-56.55	727.16	-52.02	728.05	-18.29	750.64
-48.66	727.71	-50.73	727.64	-48.21	728.34	-15.98	751.63
-40.72	728.55	-42.39	728.25	-47.02	728.62	-12.41	753.46
-37.64	728.83	-39.86	728.55	-45.76	728.71	-9.07	755.65
-36.82	729.06	-39.47	728.55	-45.17	728.57	-7.63	756.01
-36.59	728.94	-38.76	729.56	-41.65	729.62	-6.63	756.01
-35.70	730.02	-38.16	729.74	-38.84	732.16	-2.04	756.01
-30.09	730.50	-37.30	729.63	-38.17	732.82	-1.36	756.01
-27.06	730.93	-31.22	730.40	-31.81	733.39	-1.13	755.79
-25.44	731.20	-28.14	730.74	-28.96	734.22	0.00	756.01
-20.02	736.05	-27.13	730.70	-26.50	735.43	0.70	757.42
-17.05	736.35	-24.87	733.37	-23.32	738.51	3.25	758.81
-15.06	739.00	-21.86	733.81	-21.63	738.92	4.23	760.88
-8.83	739.41	-18.84	738.47	-20.96	740.89	8.97	760.92
-5.49	741.94	-15.95	739.22	-16.80	742.12	12.53	761.00
-2.82	744.37	-14.81	740.36	-14.43	743.10	16.62	765.44
-2.00	744.82	-11.00	740.41	-11.82	744.18	20.41	765.61
-0.58	744.78	-7.89	743.47	-10.70	745.02	PK 9800.00	
0.00	745.33	-4.48	744.50	-9.79	745.09	-17.94	754.59
3.17	747.34	-3.71	744.93	-6.22	747.10	-15.51	755.82
6.39	749.80	-3.44	744.75	-3.82	748.93	-12.97	756.48
7.13	749.89	0.00	747.68	-1.13	751.15	-11.47	756.81
7.53	753.48	2.44	749.64	0.00	752.02	-6.90	756.83
7.88	753.50	4.06	750.26	0.69	752.13	-6.32	756.88
7.97	752.86	4.39	754.14	0.88	754.80	-6.03	756.88
8.81	752.93	4.79	754.14	1.28	754.83	-5.54	756.69
13.47	752.98	4.88	753.59	1.33	754.30	-1.58	759.84
14.14	752.91	5.66	753.68	2.08	754.32	0.00	760.13
14.80	752.75	10.16	753.73	6.58	754.39	0.72	760.85
16.24	754.21	10.76	753.71	6.97	754.35	6.10	762.29
19.44	758.30	13.45	756.65	7.72	754.05	10.79	763.44
21.95	759.51	16.79	759.51	9.38	755.65	13.03	764.64
		20.12	762.64	11.85	757.48	15.62	765.63
				14.64	759.92	17.72	767.09
				16.76	762.14	20.52	768.98
				19.21	763.30	PK 9820.00	
				PK 9760.00		-20.78	757.73
				-32.45	743.43	-17.84	757.78
				-29.25	743.53	-16.77	757.82
				-26.91	744.07	-12.07	757.75
				-25.26	745.15	-11.31	757.66
				-24.15	745.76	-10.84	757.52
				-23.78	745.17	-10.04	757.92
				-23.30	745.17	-7.03	761.33
				-20.96	747.13	-5.36	761.45
				-17.80	747.43	-2.41	762.86
				-14.07	748.71	0.00	763.10
				-11.43	749.55	1.88	763.82
				-10.63	751.20	3.92	764.04
				-8.11	752.19	7.82	766.37
				-5.02	754.17	11.50	768.06
				-3.58	755.13	16.37	770.79
				-2.65	755.16	22.64	774.18
				-1.89	755.18		
				0.00	755.16		
				2.49	755.20		
				3.43	755.11		
				5.29	756.71		
				9.08	760.00		
				14.48	760.43		
				18.71	764.12		
				20.59	766.24		

PK 9840.00		PK 9900.00		PK 9960.00		PK 10020.00	
-22.15	758.82	-19.52	759.05	-18.40	751.57	-17.20	744.13
-17.10	758.63	-18.11	758.98	-13.26	752.30	-12.95	747.07
-16.35	758.63	-14.83	759.12	-10.08	753.03	-10.79	748.20
-16.11	758.35	-9.76	759.07	-5.72	755.19	-7.44	751.33
-11.53	763.20	-8.98	759.12	-3.25	757.00	-4.83	752.58
-9.56	763.53	-8.58	758.79	-2.14	758.51	-3.02	753.85
-6.96	763.81	-3.87	763.26	-2.11	759.26	-2.59	755.07
-5.12	765.36	-1.73	764.75	-1.69	759.29	-2.48	759.50
-3.84	765.60	0.00	765.41	-1.62	758.65	-2.04	759.50
0.00	765.72	2.30	767.48	-0.80	758.75	-1.98	759.00
2.54	766.14	5.44	768.39	0.00	758.75	-1.09	759.05
4.80	768.63	9.38	770.63	3.70	758.98	0.00	759.08
9.32	769.10	13.90	772.87	4.22	758.98	3.10	759.12
11.69	769.79	18.74	775.34	5.32	758.60	3.87	759.05
15.21	772.09	25.92	778.23	7.35	759.24	4.28	758.91
18.09	772.73	PK 9920.00		10.43	760.11	5.97	760.25
21.95	773.88	-18.05	759.23	12.62	761.31	8.52	761.29
24.70	775.77	-12.73	758.88	14.60	763.66	9.53	761.92
PK 9860.00		-9.92	758.90	15.32	765.41	12.00	765.15
-22.97	759.11	-5.20	758.86	17.73	766.54	13.58	766.63
-17.73	759.03	-4.51	758.71	PK 9980.00		14.59	769.53
-17.40	758.96	-3.97	758.67	-18.24	746.50	17.67	771.62
-16.97	758.87	-2.45	760.62	-15.98	746.75	PK 10040.00	
-13.91	761.74	0.00	762.25	-11.85	750.52	-21.64	746.84
-11.65	763.55	3.76	764.76	-7.09	754.24	-19.51	747.83
-9.71	764.14	6.64	767.47	-2.72	756.10	-18.30	751.24
-7.08	764.59	10.59	768.01	-0.46	758.59	-17.12	752.16
-2.23	765.25	15.34	769.92	-0.31	759.44	-15.55	754.87
0.00	765.96	18.44	771.35	0.00	759.47	-13.41	757.13
1.14	767.39	21.66	773.47	0.30	758.81	-11.91	758.35
6.53	768.50	PK 9940.00		0.91	758.83	-10.75	759.32
11.17	769.42	-16.53	754.71	5.25	758.97	-5.20	759.34
12.04	770.57	-13.96	756.71	5.67	758.97	-2.03	759.39
13.73	770.87	-11.36	758.10	6.49	758.80	0.00	759.37
16.57	771.82	-9.69	759.09	9.02	761.46	2.58	759.37
20.18	773.04	-8.57	758.86	11.95	763.04	3.12	759.34
23.55	776.01	-5.02	758.81	14.54	765.81	3.36	759.22
26.27	778.55	-0.39	758.86	18.18	769.60	4.30	759.95
PK 9880.00		0.00	758.86	PK 10000.00		6.31	762.21
-23.23	759.45	0.51	758.95	-18.22	742.29	7.27	764.66
-20.18	759.05	1.07	758.83	-13.98	745.96	10.44	767.82
-19.47	759.05	2.67	760.41	-13.03	746.76	13.23	770.31
-13.98	759.19	4.57	761.19	-12.38	746.81	16.61	771.30
-13.32	759.02	9.59	764.67	-11.72	746.45	21.11	774.10
-12.80	758.86	15.29	768.98	-7.57	750.85	23.49	774.67
-11.29	760.04	18.98	768.91	-5.49	752.15	26.98	775.65
-8.68	762.27	21.61	770.44	-3.96	753.54		
-7.13	763.14			-2.41	754.69		
0.00	763.69			-1.71	758.79		
3.19	766.60			-1.51	759.68		
8.75	769.33			-1.16	759.71		
17.00	772.58			-1.12	758.86		
20.39	775.24			0.00	758.91		
26.25	779.22			4.18	758.98		
				4.58	758.98		
				5.36	758.88		
				7.52	762.06		
				10.50	765.75		
				14.11	768.84		
				17.35	770.23		



PK 10060.00		PK 10100.00		PK 10160.00		PK 10220.00	
-21.21	756.69	-18.72	756.02	-19.88	755.05	-35.78	751.66
-18.49	756.92	-13.60	756.68	-15.23	755.12	-30.15	752.46
-14.85	757.23	-9.42	759.27	-12.04	756.32	-26.10	753.02
-12.55	757.58	-7.54	759.74	-8.53	758.96	-22.84	754.74
-8.25	760.97	-2.88	759.85	-7.66	759.19	-19.82	755.02
-7.40	761.16	0.00	759.93	-6.39	759.17	-16.92	756.48
-4.34	759.37	2.12	760.04	-1.66	759.21	-11.70	756.70
-2.36	759.61	2.87	760.11	-0.95	759.21	-9.77	758.32
0.00	759.66	3.71	759.71	0.00	758.89	-6.85	758.44
2.37	759.63	4.09	760.23	2.03	760.88	-2.27	758.37
2.89	759.61	4.75	760.87	6.66	761.02	-1.65	758.39
3.32	759.44	5.17	763.41	9.29	763.92	-1.28	758.30
3.78	759.94	6.98	764.49	13.45	763.90	0.00	759.36
4.58	762.64	9.64	765.55	16.47	767.87	0.98	761.50
8.40	764.27	14.81	770.94	19.08	768.23	5.67	761.90
10.21	765.37	15.82	771.25	22.96	768.63	9.78	762.37
13.41	768.06	19.10	771.39	28.48	769.29	14.54	763.92
16.33	771.50	22.47	771.62	PK 10180.00		19.87	765.64
16.99	771.24	24.85	774.54	-18.83	752.89	22.57	766.58
19.18	770.88	PK 10120.00		-16.83	755.24	24.47	768.96
20.56	772.13	-19.83	756.22	-14.15	755.29	28.59	769.67
24.45	772.93	-17.47	756.41	-9.90	758.04	PK 10240.00	
PK 10080.00		-13.59	756.55	-8.30	758.87	-32.02	753.23
-19.05	756.93	-9.36	759.57	-6.87	758.87	-29.88	753.25
-17.10	757.09	-7.76	759.66	-2.12	758.87	-25.31	753.65
-12.20	757.61	-5.03	759.68	-1.54	758.89	-23.29	755.23
-10.88	758.48	-4.11	759.75	-1.06	758.89	-17.73	756.01
-9.00	759.73	0.00	759.83	-0.46	758.61	-13.30	756.59
-8.10	760.34	0.84	759.80	0.00	758.87	-10.23	758.03
-6.98	760.36	1.43	759.80	2.30	760.23	-7.48	758.15
-5.00	759.68	1.76	759.66	4.28	760.94	-6.24	758.17
-3.21	759.73	2.04	759.90	11.43	761.43	-1.79	758.15
-2.62	759.73	3.29	763.76	12.66	763.41	-1.13	758.17
0.00	759.85	6.73	764.39	17.29	763.67	-0.57	758.08
2.44	759.80	9.09	766.75	20.42	766.35	0.00	758.27
3.20	759.80	13.38	770.75	22.05	767.97	1.31	761.47
3.55	759.66	14.23	771.03	28.05	768.42	6.06	762.76
5.52	762.91	19.65	771.67	PK 10200.00		10.86	765.14
8.73	764.08	24.33	772.49	-17.55	755.12	15.66	766.24
11.22	765.56	25.59	772.39	-15.95	755.16	18.56	766.86
15.72	770.11	PK 10140.00		-13.78	755.56	19.52	767.33
16.68	771.26	-19.04	754.82	-8.82	758.63	23.07	768.01
18.14	771.57	-16.86	755.76	-8.09	758.63	27.47	770.65
19.74	772.81	-13.38	756.33	-7.05	758.63	31.75	774.15
24.66	773.66	-7.36	759.29	-2.34	758.58	34.24	774.41
		-5.39	759.60	-1.62	758.54		
		-0.58	759.67	-1.12	758.33		
		0.00	759.70	0.00	758.64		
		0.37	759.34	1.58	758.84		
		3.71	763.81	5.48	760.70		
		8.16	764.05	7.74	761.97		
		11.66	766.38	13.70	762.20		
		12.97	767.79	16.56	763.36		
		15.25	770.33	20.41	765.07		
		19.07	770.52	23.78	766.77		
		23.35	770.78	26.02	768.35		
		26.17	771.35				

PK 10260.00		PK 10300.00		PK 10360.00		PK 10420.00	
-30.68	753.45	-34.94	751.64	-30.76	751.35	-30.73	752.03
-26.45	753.69	-28.77	752.51	-23.49	752.02	-23.92	752.37
-24.91	753.81	-23.15	753.52	-15.06	752.90	-16.24	752.77
-23.28	755.57	-17.01	754.32	-9.42	753.69	-10.21	753.12
-21.67	755.74	-13.41	754.84	-6.85	754.11	-6.43	753.49
-17.18	756.51	-10.12	756.32	-3.04	756.13	-5.21	753.53
-12.62	757.10	-9.03	756.06	-2.27	756.17	-0.61	755.34
-10.67	757.76	-4.81	757.00	-1.50	756.27	0.00	755.37
-9.52	758.04	-4.64	757.17	0.00	756.27	0.88	755.39
-8.29	757.62	-3.92	757.14	2.78	756.24	5.12	755.37
-5.57	757.79	0.00	757.22	3.52	756.24	5.90	755.46
-1.16	757.74	0.51	757.17	4.17	756.24	7.50	755.30
-0.38	757.79	1.27	757.14	5.48	755.85	11.32	755.27
0.00	757.79	2.17	756.98	7.99	755.87	17.29	755.55
0.50	757.76	3.99	757.99	12.53	756.24	19.26	755.81
1.59	761.41	7.38	758.70	18.66	757.07		
5.20	762.23	11.93	759.55			PK 10440.00	
9.32	763.36	15.79	759.90	PK 10380.00		-30.30	753.12
12.73	764.14	19.27	760.60	-33.37	750.93	-23.06	753.45
17.65	765.67	21.44	761.43	-24.16	751.61	-14.46	753.84
22.58	766.87			-15.29	752.37	-7.51	754.24
26.88	768.35	PK 10320.00		-9.07	752.95	-4.24	754.54
31.07	770.68	-34.65	751.72	-6.14	753.39	-1.44	755.58
PK 10280.00		-30.98	752.14	-2.19	755.85	0.00	755.47
-33.38	751.96	-24.66	752.87	-1.52	755.85	0.72	755.53
-31.22	752.38	-17.46	753.93	-0.72	755.92	1.62	755.51
-29.09	753.56	-10.98	754.90	0.00	755.88	5.79	755.51
-24.85	753.65	-8.12	755.18	3.57	755.94	6.89	755.51
-20.65	754.24	-6.37	756.36	4.41	755.90	7.40	755.40
-19.20	755.37	-4.52	756.88	4.85	755.90	8.25	755.98
-14.15	755.82	-3.00	756.88	6.52	755.41	9.05	755.98
-11.63	756.24	0.00	756.88	11.09	755.48	9.68	755.79
-8.18	757.28	2.14	756.88	16.03	756.06	13.32	755.91
-5.96	757.47	2.66	756.73	19.82	756.24	19.94	756.30
-4.84	757.42	3.23	757.65			20.87	756.28
-0.44	757.56	6.01	757.70	PK 10400.00		PK 10460.00	
0.00	757.52	9.55	758.03	-31.72	751.32	-30.00	753.67
0.58	757.52	14.98	758.78	-25.54	751.69	-28.78	753.48
1.16	757.42	18.91	759.35	-19.18	752.13	-26.93	753.30
2.32	759.28			-13.70	752.57	-19.80	753.88
6.42	759.99	PK 10340.00		-8.57	752.96	-11.81	754.48
11.02	760.20	-34.31	751.10	-5.86	753.17	-6.70	755.10
13.83	761.54	-26.81	752.07	-2.02	755.26	-3.72	755.36
16.19	761.63	-18.09	753.27	-1.05	755.52	-1.52	755.52
20.02	763.80	-10.93	754.16	0.00	755.52	0.00	756.13
23.82	764.34	-7.72	754.63	4.34	755.58	1.03	756.03
		-3.67	756.63	5.67	755.65	2.03	756.01
		-3.29	756.63	7.01	755.17	2.56	756.01
		-2.23	756.70	9.80	755.12	6.64	756.03
		0.00	756.59	15.88	755.40	7.60	756.03
		2.02	756.59	20.43	755.82	8.18	756.03
		2.84	756.49			8.99	757.12
		3.11	756.70			9.92	757.19
		3.70	756.54			10.46	757.03
		4.71	756.89			16.89	757.15
		4.97	756.68				
		7.33	756.68				
		11.47	757.03				
		16.52	757.97				
		18.47	758.04				
		20.14	758.54				

PK 10480.00		PK 10540.00		PK 10600.00		PK 10660.00	
-40.92	752.31	-20.43	757.67	-17.14	759.08	-17.35	759.43
-38.08	752.73	-13.69	758.39	-9.28	759.75	-12.75	759.80
-34.86	752.54	-6.79	759.14	-4.42	760.14	-6.56	760.24
-26.73	749.41	0.00	759.79	0.00	760.52	0.00	760.78
-21.69	749.85	2.60	760.06	0.83	760.89	3.34	760.96
-17.18	750.69	4.04	758.53	2.89	762.18	5.17	762.14
-11.01	753.10	4.46	758.53	3.60	761.16	6.89	762.98
-7.30	753.89	5.42	758.69	4.19	761.09	7.10	762.98
-4.85	754.47	9.76	758.93	5.84	761.33	7.55	762.96
-2.77	755.83	10.50	758.90	7.00	761.42	8.03	762.96
0.00	755.77	11.03	758.58	11.68	761.54	12.36	762.86
1.28	755.83	12.56	761.41	12.28	761.54	12.93	762.86
2.02	756.04	14.17	761.71	12.79	761.33	13.39	762.79
2.18	757.04	16.94	762.20	14.23	763.58	18.88	762.93
2.63	757.01	20.14	762.52	14.89	763.65		
2.72	756.34	24.35	763.03	15.95	763.69	PK 10680.00	
7.91	756.53			19.88	763.99	-29.42	757.69
11.44	756.94	PK 10560.00				-22.64	757.90
14.79	757.08	-16.89	758.88	PK 10620.00		-17.99	758.11
15.81	758.22	-9.70	759.52	-17.40	759.16	-15.57	758.27
18.20	758.36	-4.18	760.06	-14.91	759.49	-14.68	760.01
23.71	758.54	0.00	760.55	-9.14	760.09	-9.87	760.38
		1.76	760.73	-3.78	760.51	-4.92	760.78
PK 10500.00		3.30	760.99	0.00	760.86	-2.25	761.13
-31.60	754.83	4.49	759.36	2.01	761.09	0.00	761.27
-20.57	755.61	4.99	759.36	4.47	762.36	1.20	760.96
-13.57	756.08	5.35	759.59	5.51	762.41	4.03	761.59
-10.05	755.94	6.07	759.62	7.37	762.36	6.64	762.19
0.00	751.56	10.49	759.78	12.02	762.55	9.51	763.03
0.76	751.56	11.20	759.78	12.79	762.55	10.89	763.17
1.96	755.68	11.72	759.45	13.23	762.18	11.48	763.05
2.90	757.52	13.45	762.01	14.26	764.01	16.33	762.96
3.39	757.59	14.68	762.49	16.34	764.22	16.77	762.75
3.48	757.03	15.17	762.65	21.12	764.40	17.45	764.12
8.52	757.08	16.35	762.65	PK 10640.00		18.82	764.12
8.71	757.56	17.63	763.79	-16.87	759.26	21.76	764.28
9.15	757.54	20.59	764.00	-12.04	759.63	PK 10700.00	
10.33	753.11			-8.57	760.12	-32.32	755.86
17.21	755.17	PK 10580.00		-3.92	760.65	-26.21	756.33
20.11	757.69	-17.48	759.10	0.00	761.03	-21.16	756.63
22.79	757.97	-10.98	759.61	3.21	761.21	-14.58	756.99
24.11	757.80	-4.81	760.02	4.93	762.63	-10.26	757.36
26.99	758.06	0.00	760.54	6.06	762.58	-8.79	757.48
		0.45	760.56	6.71	762.83	-7.82	759.24
PK 10520.00		3.52	762.30	6.97	762.83	-6.96	759.26
-25.57	756.51	3.74	762.30	7.49	762.83	-3.63	759.66
-16.78	757.18	4.91	760.19	12.05	762.88	0.00	759.88
-11.44	757.64	5.32	760.42	12.64	762.88	6.24	760.23
-4.85	758.11	6.59	760.51	13.64	762.88	8.53	761.43
0.00	758.53	11.09	760.58	14.27	764.20	12.46	761.54
1.68	758.76	11.75	760.60	16.55	764.20	20.04	762.22
2.35	758.73	12.26	760.47	19.70	764.25	PK 10720.00	
3.13	757.69	12.87	760.58			-31.20	755.44
4.77	757.71	13.96	763.57			-24.01	755.96
8.94	757.88	14.79	763.83			-18.64	756.36
9.66	757.92	16.41	763.87			-11.75	756.74
10.44	757.78	18.89	764.01			-4.75	757.28
12.19	760.43					0.00	757.61
14.61	760.77					0.77	757.61
19.26	760.96					1.03	759.13
25.71	761.42					3.34	759.39
						7.86	759.74
						18.25	760.42

PK 10740.00		PK 10840.00		PK 10920.00		PK 10980.00	
-34.50	754.56	-37.47	750.36	-37.36	749.29	-39.02	749.95
-28.73	754.91	-29.44	750.69	-31.18	749.52	-29.98	750.52
-18.19	755.75	-22.70	751.02	-22.69	749.83	-21.00	750.96
-10.56	756.29	-20.67	751.09	-16.94	750.21	-14.16	751.41
-4.62	756.65	-19.58	751.66	-10.39	750.51	-8.17	751.83
0.00	757.05	-18.51	751.77	-3.95	750.93	-2.44	752.07
3.61	757.12	-10.53	752.05	0.00	751.08	0.00	752.26
11.37	757.59	-4.57	752.41	3.89	751.43	2.93	754.11
11.66	758.92	0.00	752.60	9.60	751.69	4.61	754.53
15.01	758.90	2.79	752.64	16.76	752.23	5.73	756.46
19.42	759.42	10.26	752.97	24.44	752.70	6.64	756.62
PK 10760.00		18.01	753.32	PK 10940.00		8.99	756.48
-34.07	753.74	25.27	753.70	-35.19	749.47	14.98	756.74
-20.50	754.72	PK 10860.00		-26.81	749.77	22.13	757.00
-10.54	755.43	-37.40	749.69	-18.60	750.17	27.57	757.56
-4.29	755.97	-31.25	749.95	-10.99	750.71	36.47	758.36
0.00	756.28	-24.32	750.18	-4.12	751.04	45.45	759.79
3.11	756.49	-19.67	750.27	0.00	751.33	48.32	760.05
9.16	756.74	-18.19	751.54	2.49	751.54	50.68	761.81
15.89	757.05	-17.25	751.47	8.05	751.87	52.40	761.79
20.83	757.24	-12.50	751.54	14.51	752.31	55.04	761.70
PK 10780.00		-7.17	751.68	18.17	753.30	56.43	762.05
-35.83	752.72	-3.84	751.80	21.31	754.71	60.67	764.84
-28.18	753.26	0.00	751.90	23.74	755.86	61.54	764.96
-22.88	753.63	3.24	752.01	26.65	757.90	62.33	764.94
-17.21	754.10	9.25	752.18	PK 10960.00		67.71	765.03
-11.08	754.64	16.01	752.41	-36.13	749.59	PK 11000.00	
-4.97	755.07	23.64	752.88	-28.09	749.99	-40.30	750.53
0.00	755.40	PK 10880.00		-21.77	750.42	-31.04	751.07
2.67	755.58	-38.23	749.63	-12.32	750.96	-21.32	751.61
7.55	755.89	-35.19	749.59	-5.65	751.31	-13.08	752.13
13.20	756.24	-26.08	749.89	0.00	751.69	-7.77	752.64
20.58	756.52	-20.54	749.96	2.67	751.73	-6.92	752.50
PK 10800.00		-16.77	749.99	7.98	752.01	-4.75	754.52
-37.40	751.87	-14.62	751.02	12.25	754.76	-2.99	754.71
-33.56	752.05	-13.30	751.00	15.55	756.80	-0.89	757.08
-31.00	752.64	-10.48	750.97	16.62	756.99	0.00	757.18
-22.30	753.20	-4.68	751.18	17.63	756.55	1.88	757.03
-13.61	753.67	0.00	751.26	19.82	756.52	7.37	757.22
-6.84	754.10	5.30	751.37	24.57	756.71	13.62	757.55
0.00	754.43	12.87	751.75			20.24	758.21
3.64	754.54	17.49	751.98			26.93	758.89
10.88	755.06	24.73	752.34			35.21	759.81
16.61	755.27	PK 10900.00				39.41	761.00
23.08	755.53	-37.08	749.51			41.86	761.07
PK 10820.00		-30.83	749.66			44.74	762.91
-38.62	750.85	-24.83	749.77			47.50	762.67
-33.31	751.11	-17.62	750.15			50.77	763.00
-28.05	751.25	-13.13	750.29			54.62	765.35
-26.48	751.39	-11.82	750.85			56.52	765.51
-23.55	752.56	-10.72	750.71			58.04	765.58
-16.69	752.77	-4.45	750.95			62.73	765.63
-10.25	752.98	0.00	751.07			63.42	765.63
-4.31	753.24	3.98	751.30			64.17	765.32
0.00	753.53	10.96	751.75			65.92	767.65
2.44	753.55	18.11	752.17			67.14	767.51
9.32	753.95	24.71	752.45			68.44	767.51
16.36	754.32					69.39	767.37
16.91	754.25					70.58	768.14
22.19	754.49					73.62	768.61
						77.20	771.17
						79.14	771.29



PK 11020.00		PK 11040.00		PK 11060.00		PK 11080.00	
-75.37	749.20	-83.64	749.23	-84.70	746.10	-77.69	746.52
-58.48	750.18	-70.72	750.23	-81.58	749.13	-75.07	748.59
-45.30	751.09	-60.01	750.91	-79.38	749.50	-69.44	751.37
-32.64	751.83	-50.35	751.56	-77.63	750.57	-60.93	751.81
-21.89	752.53	-41.69	752.14	-76.35	750.39	-51.16	752.40
-16.64	752.81	-32.05	752.89	-60.56	751.44	-44.44	753.07
-13.03	753.04	-23.17	753.54	-50.32	752.23	-37.48	753.66
-11.43	755.17	-18.65	753.89	-39.57	753.00	-33.35	754.29
-10.54	755.07	-16.18	755.92	-34.08	753.49	-29.73	754.75
-9.35	755.54	-14.32	756.13	-27.16	753.84	-26.23	756.50
-7.64	757.57	-12.97	758.51	-23.54	754.19	-23.24	758.51
-6.28	757.73	-9.91	758.42	-21.56	756.71	-19.78	758.60
0.00	757.76	-5.62	758.51	-20.67	756.71	-13.28	759.00
5.43	758.17	0.00	758.84	-17.88	758.74	-6.32	759.72
14.52	758.73	4.23	759.07	-16.59	758.41	0.00	760.40
24.31	759.69	11.91	759.70	-5.90	759.11	6.59	761.21
32.32	760.62	21.36	760.44	0.00	759.72	15.37	762.75
36.69	760.97	29.37	761.23	2.73	760.27	23.47	763.71
39.60	762.82	30.15	761.58	4.50	759.97	27.79	764.78
40.47	762.79	30.85	761.37	6.59	760.60	32.36	766.20
42.65	762.77	34.15	763.26	8.86	760.65	36.25	766.43
44.95	763.12	36.26	763.07	14.64	761.14	36.88	766.46
48.71	766.15	40.91	764.87	21.81	762.07	41.55	766.43
49.69	765.68	44.52	765.87	27.74	762.65	42.16	766.43
52.57	765.75	47.17	766.06	32.96	762.98	42.92	766.27
53.41	765.78	47.48	766.06	33.84	763.35		
58.03	765.78	47.97	766.08	39.14	765.52	PK 11100.00	
58.94	765.82	52.63	766.08	40.50	765.92	-69.47	746.42
59.58	765.71	53.23	766.08	42.64	766.17	-62.73	750.61
60.22	767.41	54.01	765.73	47.38	766.20	-59.95	750.87
61.58	767.69	57.64	768.29	48.02	766.20	-57.75	751.50
64.23	767.67	61.68	768.29	48.95	765.94	-56.79	751.31
68.06	768.62	66.62	769.65	51.13	768.02	-52.90	753.13
72.70	770.25	67.70	772.00	53.42	768.06	-51.63	754.00
74.91	772.07	70.36	772.26	57.53	768.09	-45.54	754.25
		73.41	772.37	60.93	769.86	-36.97	755.02
				63.69	770.40	-34.37	755.14
				65.72	772.56	-29.88	758.15
				68.52	772.54	-28.47	758.01
						-26.26	758.15
						-24.59	758.80
						-14.87	759.43
						-6.63	760.25
						0.00	761.02
						6.47	762.02
						15.86	763.81
						20.74	764.26
						22.87	765.63
						26.60	766.10
						27.25	766.40
						29.69	766.59

PK 11120.00		PK 11180.00		PK 11220.00		PK 11260.00	
-39.24	755.43	-34.20	760.41	-25.86	763.07	-23.64	765.56
-36.29	757.86	-24.33	761.13	-22.11	764.26	-22.44	766.07
-35.08	758.11	-16.30	761.99	-18.83	764.72	-17.46	766.49
-33.87	758.98	-9.44	762.81	-15.00	765.38	-13.40	767.19
-25.88	759.28	-6.16	763.32	-11.49	766.40	-9.92	767.75
-17.49	759.82	-2.68	765.24	-9.12	767.99	-7.03	768.31
-6.94	760.87	0.00	767.34	-6.55	768.08	-3.24	768.31
0.00	761.64	1.91	767.47	-0.68	767.87	-2.44	768.38
4.65	762.12	3.42	767.52	0.00	767.76	0.00	768.48
8.18	762.80	4.44	767.50	0.44	767.64	2.72	768.43
13.69	763.36	9.70	767.54	2.67	769.25	3.34	768.43
18.72	764.83	10.49	767.54	4.49	769.85	3.85	768.17
23.00	766.84	11.21	767.24	6.24	769.97	6.52	771.48
23.48	766.84	14.10	770.83	7.72	770.51	10.21	771.55
PK 11140.00		15.20	771.02	11.31	770.60	11.23	772.51
-33.34	759.15	17.01	770.97	13.00	771.51	12.66	772.91
-24.99	759.67	18.59	770.81	15.91	773.05	14.01	773.26
-18.93	760.23	21.28	771.98	18.26	773.12	14.57	772.88
-10.48	761.25	24.42	773.35	20.66	774.38	16.98	773.33
-4.04	762.16	29.59	774.54	24.66	774.80	18.63	774.00
0.00	762.75	PK 11200.00		26.48	776.06	20.01	774.98
3.72	763.19	-29.66	762.43	30.86	777.29	22.73	775.75
7.93	763.70	-20.89	762.90	PK 11240.00		24.63	776.12
8.68	763.68	-14.70	763.44	-22.79	763.69	27.16	777.38
10.62	765.43	-10.84	764.02	-20.08	765.67	29.09	777.99
14.35	765.73	-7.23	765.89	-15.93	766.21	32.08	778.46
16.92	767.01	-4.67	767.45	-11.61	766.63	PK 11280.00	
17.20	767.01	-3.01	767.89	-8.99	767.70	-24.35	758.97
17.99	766.99	-1.92	767.89	-7.49	768.24	-13.97	764.90
23.01	767.04	0.00	767.92	-6.10	768.24	-10.15	767.63
23.75	767.04	3.21	767.68	-0.57	768.17	-6.58	768.21
24.51	766.69	4.06	767.75	0.00	768.24	-2.71	768.30
26.95	768.69	4.63	767.64	0.76	768.10	0.00	768.33
28.02	769.18	6.34	769.31	2.11	769.94	0.51	768.26
30.58	769.34	7.83	769.59	4.50	770.50	0.90	768.26
PK 11160.00		9.54	771.13	6.13	770.40	5.76	768.37
-36.69	759.43	12.61	771.23	9.21	770.73	6.41	768.37
-26.66	759.73	14.12	772.07	11.00	771.99	7.24	768.16
-17.96	760.76	16.92	772.16	14.44	772.27	8.65	769.30
-10.63	761.50	18.87	773.75	17.47	772.55	11.27	771.94
-5.82	762.23	22.22	774.72	20.23	773.93	14.05	772.29
-0.96	762.95	24.85	775.40	21.28	774.37	15.22	772.10
0.00	763.28	26.20	776.71	25.39	775.58	17.90	772.57
0.84	764.39	29.90	777.03	28.43	776.82	19.66	773.18
3.19	765.09	33.61	778.29	31.55	777.17	23.86	777.35
5.20	767.01					24.71	777.61
7.31	767.22					PK 11300.00	
9.98	767.33					-28.73	764.97
11.07	767.33					-20.85	765.63
16.31	767.31					-13.83	766.44
16.93	767.33					-9.16	767.05
17.73	766.98					-5.40	768.10
20.11	769.76					-1.44	768.43
22.10	770.41					0.00	768.43
25.33	770.15					1.34	768.19
28.07	770.83					7.04	768.23
						7.66	768.25
						7.99	768.09
						10.65	771.92
						11.66	772.08
						13.55	772.01
						16.56	772.80
						18.15	772.94

PK 11320.00		PK 11400.00		PK 11460.00		PK 11520.00	
-30.32	763.96	-36.23	757.45	-38.13	759.80	-35.92	761.80
-20.52	764.71	-32.58	760.86	-34.57	760.01	-27.18	762.81
-14.63	765.17	-23.69	761.43	-26.08	760.88	-19.17	763.95
-11.43	765.65	-15.82	762.04	-20.32	761.65	-13.94	764.95
-8.46	765.94	-8.37	762.94	-15.40	762.22	-10.55	765.59
-5.53	767.75	-4.13	763.62	-12.32	762.79	-9.82	767.26
-3.94	768.18	-1.55	764.17	-9.27	763.34	-8.90	768.13
-1.87	768.21	0.00	765.91	-2.30	768.39	-8.29	768.43
0.00	768.21	1.87	766.52	-0.73	768.44	-5.79	769.09
2.59	768.05	3.77	767.76	0.00	768.51	-4.51	769.20
2.95	768.05	4.86	767.87	0.13	768.48	0.00	769.39
7.52	768.07	5.49	767.87	4.96	768.51	0.63	769.29
8.19	768.11	10.58	767.87	5.58	768.51	1.27	769.20
8.87	767.86	11.32	767.92	6.45	771.38	2.05	769.13
9.88	770.95	12.19	767.62	9.79	772.09	5.55	773.06
11.64	771.72	14.55	769.74	12.17	772.55	8.71	774.27
13.96	771.79	17.14	770.47	15.81	773.71	13.89	775.67
17.12	772.77					19.74	778.20
PK 11340.00		PK 11420.00		PK 11480.00			
-30.74	762.48	-36.04	760.21	-37.58	760.10	21.39	779.87
-24.19	762.94	-30.28	760.66	-32.63	760.40	24.52	780.19
-16.99	763.47	-23.84	761.21	-27.08	760.94	27.86	781.49
-10.77	764.15	-17.09	761.87	-19.29	762.04	33.06	785.01
-6.23	764.81	-11.65	762.63	-13.51	763.07		
-3.32	765.23	-7.08	763.31	-11.51	763.64	PK 11540.00	
0.00	767.56	-4.16	764.09	-8.71	765.67	-36.50	762.58
3.36	767.92	0.00	766.79	-7.35	766.04	-30.80	763.01
3.84	767.92	2.02	767.90	-3.60	768.46	-24.76	764.11
8.40	768.03	3.33	767.97	-1.59	768.66	-21.73	764.64
9.73	767.97	4.13	767.97	0.00	768.76	-16.39	765.51
11.06	770.84	8.86	768.02	3.08	768.71	-13.55	765.85
14.47	771.74	9.48	768.04	3.52	768.66	-11.59	766.24
16.46	772.47	10.38	767.72	3.93	768.53	-8.36	769.19
		11.92	769.73	5.57	772.02	-5.64	769.47
		15.19	770.49	8.58	772.43	0.00	769.61
		20.13	772.59	13.09	773.57	0.32	769.61
PK 11360.00		PK 11440.00		PK 11500.00		0.79	769.17
-32.09	761.17	-35.95	760.11	15.83	774.65	2.62	770.93
-31.31	761.28	-26.43	760.91	19.48	775.74	7.16	772.15
-21.67	761.83	-18.41	761.89	20.08	777.96	7.77	774.69
-13.88	762.47	-13.58	762.65	23.28	778.85	10.77	775.19
-9.00	763.20	-11.49	762.85	26.66	780.63	13.22	775.67
-3.73	763.93	-8.66	763.43	29.73	782.35	16.63	777.34
0.00	765.58	-3.41	766.53			22.21	779.58
2.51	767.72	-1.06	767.70			27.72	783.63
4.67	767.86	0.00	768.25				
9.35	767.90	0.93	768.18				
9.88	767.90	2.02	768.18				
10.57	767.68	6.61	768.27				
12.50	769.44	7.34	768.27				
15.42	770.83	8.22	768.25				
		10.38	770.67				
PK 11380.00		12.70	771.24				
-36.16	755.46	16.34	771.99				
-31.54	761.08	19.30	772.59				
-27.40	761.36						
-18.59	761.77						
-10.54	762.52						
-5.66	763.25						
-1.59	764.05						
0.00	765.77						
2.37	766.95						
3.57	767.59						
5.68	767.71						
10.99	767.96						
12.13	767.52						
15.09	770.15						

PK 11560.00		PK 11600.00		PK 11640.00		PK 11680.00	
-34.53	763.96	-33.30	766.46	-34.20	768.80	-19.41	773.27
-28.60	764.70	-28.93	766.87	-31.71	769.12	-12.94	774.12
-20.68	765.64	-23.90	767.33	-29.58	769.15	-7.44	774.99
-16.07	766.44	-20.26	767.74	-27.34	769.44	-6.00	775.42
-13.44	766.94	-17.61	768.10	-25.30	769.88	-3.89	776.75
-9.12	769.46	-14.26	770.37	-23.54	771.30	-2.84	776.57
-7.67	769.66	-12.64	770.53	-21.48	771.36	0.00	776.96
-6.76	769.66	-11.58	770.55	-20.54	771.39	3.28	777.37
-1.52	769.82	-6.57	770.67	-15.77	771.36	10.77	778.10
-0.92	769.82	-6.14	770.69	-14.84	771.39	13.56	780.75
-0.65	769.71	-5.73	770.48	-13.21	771.71	15.19	780.75
0.00	770.08	-5.13	770.69	-11.36	771.91	18.40	781.01
2.37	772.36	-4.59	772.36	-7.10	772.37	19.84	781.88
6.42	773.30	-3.86	772.75	-2.83	773.08	23.14	785.29
8.01	773.92	-2.14	772.80	-0.99	773.40	26.46	785.56
8.41	774.95	0.00	773.03	0.00	773.75	PK 11700.00	
11.41	775.82	2.81	773.25	1.73	774.36	-21.11	774.31
14.23	776.64	5.19	773.76	3.79	776.24	-14.97	774.93
18.37	780.74	8.94	776.46	4.21	776.08	-12.03	775.64
20.24	781.36	12.79	777.28	5.42	775.94	-10.05	777.03
23.93	782.96	13.91	777.67	7.34	776.08	-9.58	777.03
27.36	783.74	16.88	777.83	10.57	776.90	-8.05	776.90
29.45	784.84	17.68	778.43	12.85	779.86	-3.12	777.42
33.86	785.20	19.05	779.07	15.41	780.15	0.00	777.84
35.58	787.35	23.11	780.46	15.88	780.04	5.25	778.57
PK 11580.00		27.30	782.91	20.78	781.32	10.49	779.35
-33.86	765.43	PK 11620.00		23.51	782.81	14.02	780.51
-26.72	766.11	-33.15	767.49	24.70	783.68	19.43	781.86
-22.11	766.78	-27.98	768.00	26.01	785.55	24.31	785.02
-17.42	767.23	-24.30	768.41	29.21	786.19	PK 11720.00	
-14.33	767.90	-21.37	768.80	PK 11660.00		-20.44	776.06
-13.03	769.87	-19.22	770.83	-38.71	769.05	-16.69	776.68
-11.93	769.93	-15.97	770.88	-33.40	769.55	-14.95	777.80
-9.07	770.07	-11.19	770.93	-30.45	769.92	-14.21	777.55
-8.22	770.16	-10.57	770.95	-28.47	770.58	-10.55	777.73
-3.03	770.42	-10.13	770.97	-28.01	771.52	-4.06	778.44
-2.30	770.39	-9.90	770.86	-26.54	771.68	0.00	779.04
-1.47	770.12	-9.13	772.23	-25.48	771.77	3.86	779.49
-0.76	771.81	-6.27	772.32	-24.86	771.73	9.33	780.32
0.00	772.32	-0.87	773.08	-20.04	771.84	13.72	781.30
2.76	772.68	0.00	773.38	-19.30	771.84	17.86	782.01
7.43	773.57	2.33	773.47	-18.84	771.61	20.86	782.56
9.08	774.88	5.32	776.05	-18.15	772.62	23.23	784.30
10.11	777.37	8.09	775.96	-15.96	772.51	26.46	784.46
14.04	778.06	11.39	776.46	-7.79	773.26	PK 11740.00	
18.75	779.34	12.85	776.76	-3.53	773.97	-20.97	777.78
20.98	780.30	15.72	779.94	-1.68	774.50	-19.03	778.84
23.31	781.81	16.02	779.97	0.00	775.76	-18.57	778.61
24.23	781.93	18.10	780.19	1.32	775.96	-16.72	778.72
25.19	781.86	21.07	781.02	10.52	777.27	-9.11	779.27
27.96	782.13	23.25	782.07	12.88	780.13	-3.63	779.91
30.04	784.17	27.16	784.73	14.13	780.56	0.00	780.42
		28.44	785.34	15.14	780.58	4.67	780.96
				17.38	780.68	11.80	782.06
				20.58	781.52	17.14	783.28
				22.69	782.94	21.10	783.92
				24.02	785.41	24.24	784.37
				26.83	785.85		



PK 11760.00		PK 11840.00		PK 11900.00		PK 11960.00	
-22.81	779.61	-26.02	770.07	-16.73	773.74	-20.75	770.72
-21.44	779.64	-23.31	771.99	-15.65	773.85	-18.76	771.30
-20.48	779.38	-20.51	772.68	-13.31	773.99	-16.48	772.94
-15.74	779.86	-18.95	773.41	-8.11	773.97	-15.14	772.59
-7.23	780.62	-12.75	774.05	-7.32	773.69	-13.42	772.52
-2.60	781.17	-11.93	773.92	-6.54	775.96	-8.77	772.66
0.00	781.54	-9.59	777.99	-3.64	776.53	-7.06	772.73
3.86	781.97	-8.66	778.36	-1.67	777.29	-3.47	774.70
8.90	782.54	-3.77	778.61	0.00	777.75	-1.62	776.30
15.47	783.78	0.00	778.43	1.97	778.68	0.00	776.91
18.57	784.33	2.72	778.91	4.87	778.77	3.50	777.97
25.19	785.43	6.89	779.07	8.77	778.87	8.97	781.35
PK 11780.00		8.16	780.12	10.35	779.90	15.13	783.86
-21.09	779.08	9.92	780.35	10.54	781.11	15.34	785.41
-19.82	779.35	13.06	782.00	13.11	781.73	19.32	786.45
-11.85	780.34	14.53	782.59	16.26	783.24	23.59	789.51
-6.11	780.73	16.52	782.75	18.82	784.52	PK 11980.00	
0.00	781.73	19.51	782.75	21.30	786.05	-18.69	771.91
4.13	781.98	22.45	782.68	25.51	789.53	-13.23	772.12
11.12	783.08	PK 11860.00		PK 11920.00		-8.97	772.05
14.53	783.49	-16.17	773.63	-17.71	772.97	-8.00	772.00
18.71	783.97	-13.82	773.73	-14.60	773.36	-5.93	773.19
26.67	784.94	-9.36	773.91	-13.17	773.48	-4.24	774.07
PK 11800.00		-8.16	773.91	-8.47	773.52	-0.64	774.51
-27.94	773.28	-6.83	777.39	-8.05	773.48	0.00	774.79
-27.21	773.01	-3.43	778.39	-7.50	773.29	1.02	776.45
-24.17	773.42	-1.57	778.76	-6.98	773.54	6.51	777.63
-20.38	773.33	0.00	778.56	-6.67	775.35	9.86	779.23
-2.87	767.97	1.96	778.78	-5.54	776.05	14.68	782.27
0.00	768.23	2.49	779.70	-4.13	776.26	16.97	782.89
4.38	768.41	5.92	781.32	-2.02	776.67	17.23	784.47
24.20	769.46	9.66	783.02	0.00	777.05	20.46	785.16
31.90	770.61	13.83	782.95	2.75	777.86	PK 12000.00	
PK 11820.00		21.15	783.02	6.44	778.16	-16.33	771.62
-35.55	763.62	27.44	788.51	9.29	780.29	-13.93	771.72
-24.58	765.45	31.07	790.50	12.38	781.38	-9.37	771.69
-16.25	765.87	33.15	791.81	15.15	783.03	-8.47	771.72
-14.55	766.92	PK 11880.00		18.47	784.65	-8.12	771.65
-10.89	767.65	-17.54	774.34	20.41	786.22	-5.32	773.20
-2.87	769.67	-13.31	774.08	21.22	787.38	0.00	774.04
0.00	773.63	-8.61	774.11	25.88	790.63	2.87	774.57
4.57	774.13	-7.14	774.02	PK 11940.00		5.05	777.00
8.38	776.10	-6.27	774.84	-16.99	772.14	8.54	777.70
16.39	778.34	-5.81	776.58	-15.90	773.04	12.30	779.43
19.52	779.55	-3.76	777.43	-13.29	773.06	16.24	781.10
22.25	780.58	-2.26	777.56	-8.62	773.16	PK 12020.00	
23.86	780.86	0.00	777.98	-7.97	773.18	-16.07	770.86
		1.74	778.71	-7.62	773.11	-14.70	771.14
		6.07	779.00	-6.44	774.99	-10.34	771.27
		6.35	779.60	-5.48	776.03	-9.72	771.27
		9.28	780.77	-3.30	775.94	-9.09	771.04
		13.03	781.09	-1.50	775.71	-6.52	772.83
		13.47	782.14	0.00	775.85	-1.99	773.20
		16.52	783.22	1.06	775.98	0.00	773.76
		19.13	784.66	3.25	778.33	2.78	774.24
		23.17	787.20	7.74	780.02	4.31	776.21
		26.06	788.96	12.44	782.34	7.91	777.32
				17.53	785.05	12.81	779.32
				19.72	787.46	16.69	780.85
				24.64	789.75		

PK 12040.00		PK 12100.00		PK 12160.00		PK 12220.00	
-16.42	770.89	-27.68	769.48	-17.99	774.15	-18.08	769.99
-11.99	770.86	-22.54	769.48	-14.39	774.89	-14.62	776.70
-11.39	770.79	-21.62	769.50	-12.08	776.37	-10.75	778.62
-10.65	770.77	-21.44	769.34	-10.40	777.07	-9.37	779.12
-9.40	772.72	-20.63	770.80	-6.05	777.90	-8.64	778.83
-7.73	772.95	-18.90	771.12	-2.37	779.71	-5.20	781.15
-2.74	773.71	-15.23	771.72	-1.09	782.31	-4.56	782.36
0.00	774.16	-11.81	772.67	0.00	782.45	-0.68	782.81
1.71	774.55	-10.24	772.51	4.01	782.82	0.00	783.86
2.29	774.85	-6.88	774.25	7.28	784.02	2.50	784.92
2.59	776.45	-6.44	776.36	8.41	786.50	7.42	789.00
5.86	777.33	-2.78	777.17	13.46	787.03	12.42	792.05
11.40	779.58	0.00	777.64	15.85	789.54	14.92	796.15
15.69	781.34	2.68	778.24	19.45	790.58	18.93	796.77
15.94	782.62	8.47	780.83	23.27	794.43	22.16	801.42
PK 12060.00		13.54	783.17	28.02	798.09	25.65	801.94
-27.48	769.78	17.89	786.05	29.89	800.04	29.00	806.80
-24.24	770.01	22.63	788.69	31.30	800.66	32.24	809.24
-20.15	770.41	PK 12120.00		PK 12180.00		PK 12240.00	
-19.34	770.55	-25.52	770.48	-16.69	774.65	-17.52	773.31
-14.52	770.59	-24.35	770.78	-13.88	776.92	-14.77	777.05
-14.17	770.59	-22.81	770.87	-12.92	777.48	-12.93	778.31
-13.45	770.45	-18.97	771.59	-7.93	778.08	-10.06	779.14
-10.81	773.07	-13.36	772.68	-6.80	779.75	-8.99	780.25
-6.80	773.81	-10.80	773.49	-4.19	780.26	-7.97	780.65
-3.02	774.32	-8.13	776.39	-2.96	782.32	-5.63	783.43
-1.89	776.09	-2.79	777.52	0.00	782.58	-1.88	784.16
-1.10	776.48	0.00	778.20	2.82	782.95	0.00	785.28
0.00	776.67	2.66	779.03	3.27	784.10	2.34	786.67
3.01	777.24	8.36	782.09	4.89	784.64	5.11	788.38
7.72	779.42	10.97	782.83	6.29	786.63	10.61	794.07
13.32	781.63	12.57	784.29	10.21	787.05	14.00	794.68
13.70	782.85	12.96	785.77	12.48	789.81	16.96	797.36
16.61	783.53	16.10	786.17	15.38	790.32	18.64	800.68
20.33	785.84	20.27	788.23	17.05	793.38	22.63	801.44
23.31	787.37	24.07	789.76	19.98	795.35	30.07	810.44
PK 12080.00		25.66	792.61	PK 12200.00		34.73	811.82
-25.10	769.87	PK 12140.00		-16.93	770.11	41.28	813.71
-23.27	769.96	-19.73	773.33	-15.75	770.32	PK 12260.00	
-18.20	770.08	-14.34	774.35	-12.64	777.53	-18.90	776.32
-17.67	770.08	-10.12	775.26	-9.46	778.71	-13.30	776.74
-17.01	770.05	-7.08	777.16	-5.68	780.47	-10.83	777.24
-16.24	771.91	-4.17	777.34	-4.15	782.02	-7.66	780.25
-14.94	772.44	-2.39	778.16	-1.06	782.81	-4.32	782.43
-10.04	773.14	-1.22	779.27	0.00	783.58	-3.53	783.95
-7.08	773.41	0.00	779.83	2.01	784.43	0.00	784.45
-4.57	776.43	0.82	780.10	7.40	786.59	1.11	784.66
0.00	777.43	2.81	782.54	13.04	791.09	1.94	786.34
3.78	777.91	7.21	782.75	15.49	791.46	4.31	787.57
9.65	780.04	10.44	784.65	17.46	792.87	6.67	790.30
9.90	781.41	11.94	786.08	18.00	794.65	8.36	791.15
12.71	782.61	15.66	786.71	19.33	795.54	9.64	793.17
18.33	785.14	18.51	788.89	24.29	798.78	12.51	793.85
23.61	787.71	23.04	791.62			19.97	800.66
		27.72	796.21			23.60	802.65
						25.14	806.46
						27.67	807.03
						30.33	808.78
						31.35	809.87
						34.48	810.37
						37.23	810.21
						39.36	810.92
						41.30	812.88

PK 12280.00		PK 12320.00		PK 12380.00		PK 12460.00	
-19.52	775.68	-21.37	769.33	-21.43	761.92	-16.54	757.95
-16.79	776.08	-19.60	771.32	-15.70	762.70	-12.75	758.47
-12.72	776.24	-18.43	772.91	-15.13	762.77	-5.28	759.22
-10.40	776.79	-17.04	772.84	-9.31	762.78	-2.61	760.33
-8.98	780.18	-15.05	773.38	-8.92	762.76	-1.20	760.26
-4.99	782.95	-11.06	776.68	-8.20	762.47	-0.76	760.30
-1.71	784.61	-8.33	778.97	-2.78	769.93	0.00	760.43
0.00	785.54	-7.40	779.19	0.00	775.70	4.38	760.42
2.34	786.60	-6.38	778.55	1.20	776.04	4.63	760.28
3.86	787.27	-4.91	778.71	5.20	778.31	5.56	760.05
6.02	790.75	0.00	782.44	8.18	780.68	6.20	761.79
8.91	791.63	1.83	786.85	13.24	785.14	8.01	762.73
10.94	793.07	3.82	786.71	20.31	791.29	9.60	762.90
12.91	793.73	8.80	789.90	25.29	792.61	11.27	763.02
14.14	796.15	18.26	795.37	29.20	793.50	11.38	762.92
16.78	797.79	21.15	798.07	PK 12400.00		15.66	763.02
19.52	799.87	21.62	798.04	-20.83	757.68	16.02	762.94
22.56	801.82	22.85	798.35	-10.94	762.22	18.41	767.88
24.49	804.33	25.49	803.73	-10.08	762.08	22.55	769.64
27.82	804.99	27.92	804.87	-9.26	762.10	26.20	770.60
29.41	807.34	33.69	807.10	-3.81	762.17	29.21	772.00
30.10	807.36	PK 12340.00		-3.51	762.18	PK 12480.00	
31.48	806.58	-19.10	768.72	-2.68	761.83	-28.87	754.12
32.78	806.79	-17.42	770.00	0.00	766.31	-23.05	757.85
34.41	808.57	-7.65	775.58	2.19	772.70	-12.97	758.45
36.93	810.30	0.00	780.67	7.95	777.71	-7.28	759.04
39.15	811.34	2.70	782.78	14.18	782.35	-3.66	759.22
PK 12300.00		9.53	790.02	PK 12420.00		-2.57	759.50
-19.72	775.09	11.59	791.02	-18.28	755.16	-1.32	759.78
-17.81	775.77	12.85	791.79	-17.74	756.04	-0.95	759.88
-13.94	776.25	14.44	791.91	-10.19	761.68	0.00	759.92
-10.98	776.82	16.82	793.68	-8.02	761.52	4.65	759.77
-9.88	778.95	18.48	794.06	-6.04	761.58	5.12	759.68
-7.38	779.90	23.16	799.16	-5.68	761.49	5.51	759.45
-4.80	781.56	26.58	800.60	-4.90	761.54	9.43	762.85
-2.74	784.02	30.28	802.76	0.00	761.79	13.03	763.68
0.00	784.95	PK 12360.00		0.40	761.57	17.99	764.12
2.32	785.63	-22.23	763.13	0.92	761.23	18.67	764.46
4.64	787.48	-15.90	763.28	2.10	762.50	18.79	764.36
5.15	789.97	-15.33	763.22	7.26	774.10	22.98	764.52
8.35	791.11	-14.64	763.12	12.77	776.21	23.11	764.59
11.30	793.86	-10.74	769.45	18.69	783.18	23.38	764.41
13.02	795.82	-5.83	772.50	PK 12440.00		23.55	764.41
16.25	797.27	0.00	777.18	-14.87	755.10	23.70	765.27
18.52	800.16	1.44	777.42	-13.56	756.39	25.49	767.42
22.17	801.23	4.34	781.63	-8.26	760.00	28.55	769.49
23.56	802.29	6.43	782.00	-6.85	760.85	29.27	769.39
25.69	803.15	8.14	783.47	-5.24	760.93	36.45	769.95
28.29	803.67	9.93	785.69	-2.97	760.88	41.73	773.29
30.75	804.99	13.66	787.70	-2.66	760.86	48.25	773.65
32.22	807.93	18.12	790.46	-2.00	760.93		
34.65	808.15	21.07	791.31	0.00	761.17		
37.43	809.50	23.19	793.86	3.01	761.09		
		26.66	795.23	7.60	761.46		
		30.93	798.71	7.98	761.39		
				11.71	768.92		
				15.66	770.19		
				19.83	772.92		

PK 12500.00		PK 12540.00		PK 12580.00	
-34.13	751.40	-28.17	753.52	-24.54	754.55
-30.58	751.54	-23.09	754.18	-21.71	754.72
-24.21	754.55	-11.95	754.89	-18.52	754.74
-20.40	754.71	-7.41	757.55	-13.44	755.29
-19.81	754.94	-4.40	758.88	-7.58	756.07
-11.71	758.93	-0.44	760.36	-3.00	758.30
-5.69	759.22	0.00	760.34	0.00	760.47
-1.67	759.79	6.68	759.94	2.32	760.70
0.00	759.75	11.73	759.08	6.36	760.75
4.39	759.43	12.81	758.51	10.19	760.66
5.11	759.38	14.80	763.31	11.92	758.59
5.78	759.09	18.14	763.40	13.63	758.68
9.27	762.31	21.88	766.91	20.02	758.59
16.66	763.02	24.53	768.53	20.69	758.28
22.16	764.27	25.46	768.01	25.46	766.35
23.35	765.58	30.07	767.96	29.64	769.51
23.91	765.67	35.43	767.91	30.97	769.70
24.11	765.63	39.47	769.76	35.48	769.72
28.15	765.71	42.05	769.95	40.18	769.72
28.41	765.61	46.36	771.28	40.35	769.41
28.57	765.58	50.60	771.24	40.65	769.65
28.69	766.47	PK 12560.00		44.68	769.79
30.50	767.48	-27.48	753.97	47.76	770.55
33.52	769.44	-21.00	754.45	51.02	770.74
37.69	770.02	-12.06	755.25	PK 12600.00	
41.31	770.09	-10.39	755.77	-44.33	752.21
46.03	773.25	-3.78	759.19	-41.42	752.21
PK 12520.00		0.00	760.48	-39.68	752.31
-31.58	752.22	2.27	760.56	-37.74	753.09
-29.61	751.60	8.73	760.35	-34.81	753.33
-25.34	753.12	10.39	758.64	-30.93	754.06
-23.38	753.81	11.39	758.59	-27.10	755.63
-20.33	754.21	16.28	758.59	-22.64	755.39
-13.62	754.40	17.71	758.40	-16.88	755.79
-7.98	758.44	18.59	758.83	-12.11	757.22
-2.30	759.96	23.20	765.81	-8.52	759.85
-1.80	759.96	26.51	767.42	-0.94	761.07
0.00	759.96	28.99	768.84	0.00	761.14
5.15	759.65	33.24	768.84	4.11	761.22
6.67	759.65	38.12	768.87	8.93	761.11
7.78	758.89	38.71	768.75	13.85	761.01
9.83	760.17	41.21	770.05	17.15	758.73
12.65	760.64	44.17	770.13	22.65	758.73
18.26	767.00	46.93	771.41	23.22	758.70
21.95	767.36	50.71	771.55	24.07	758.51
23.04	767.17			26.83	767.37
26.93	767.08			30.07	767.65
31.16	767.10			32.10	769.88
31.51	766.84			37.12	769.97
31.78	767.27			38.85	770.16
32.26	767.62			41.57	770.28
37.09	769.85				
38.79	770.11				
41.92	770.21				
46.24	773.15				



**5. TRABAJOS COMPLEMENTARIOS**

**5.1. LÍNEAS TELEFÓNICAS AFECTADAS**

**5.1.1. Sistema de referencia ED 50 UTM HUSO 30**

Punto	X	Y	Z	Nombre
P.K.1+840				
194	746592.004	4706666.078	668.259	Poste
227	746570.137	4706703.452	673.773	Poste
139	746548.355	4706736.942	677.659	Poste
2	746527.559	4706771.348	681.913	Poste
1	746484.007	4706794.707	678.224	Poste
P.K.4+320				
104	744308.930	4706881.958	681.540	Poste
96	744273.642	4706857.239	682.561	Poste
5	744187.678	4706855.593	686.018	Poste
6	744095.006	4706820.361	687.940	Poste
7	744046.810	4706802.338	688.787	Poste
8	744001.206	4706785.226	688.912	Poste
9	743954.301	4706767.449	689.318	Poste
10	743904.537	4706748.011	688.587	Poste
11	743856.363	4706729.147	687.800	Poste
12	743808.608	4706710.502	687.163	Poste
13	743759.592	4706691.567	686.926	Poste
14	743710.771	4706672.343	685.894	Poste
15	743660.647	4706652.805	685.165	Poste
16	743612.869	4706645.455	686.306	Poste
17	743567.936	4706660.828	687.139	Poste
18	743524.596	4706676.138	688.026	Poste
19	743481.646	4706691.577	688.418	Poste
20	743438.350	4706707.164	689.226	Poste
21	743400.345	4706720.596	689.544	Poste
22	743362.488	4706734.201	690.485	Poste
23	743314.785	4706757.483	691.203	Poste
24	743273.709	4706788.050	691.924	Poste

Punto	X	Y	Z	Nombre
P.K.5+720				
25	743082.617	4706906.736	694.751	Poste
26	743034.267	4706920.697	694.477	Poste
27	742993.818	4706923.675	692.890	Poste
28	742986.320	4706934.379	695.099	Poste
29	742947.611	4706945.736	694.967	Poste
30	742949.604	4706980.701	698.644	Poste
31	742891.136	4706973.265	697.544	Poste
32	742830.939	4706965.290	696.938	Poste
P.K.8+000				
37	741122.260	4707218.963	723.079	Poste
38	741074.305	4707233.253	724.991	Poste
39	741027.579	4707247.030	728.222	Poste
48	740976.454	4707262.755	729.038	Poste
49	740924.615	4707277.702	730.720	Poste
50	740877.437	4707291.739	731.404	Poste
51	740829.502	4707306.013	731.663	Poste
52	740777.198	4707322.106	730.229	Poste
53	740719.390	4707340.615	729.729	Poste
54	740672.172	4707355.541	729.687	Poste
55	740625.289	4707370.744	730.359	Poste
56	740583.350	4707384.445	731.277	Poste
57	740533.040	4707400.946	731.406	Poste
58	740488.658	4707415.549	733.501	Poste
59	740452.474	4707427.314	737.815	Poste
60	740404.674	4707443.292	737.835	Poste
61	740360.441	4707462.387	739.848	Poste
62	740313.313	4707483.396	745.516	Poste
P.K.11+300				
69	737980.266	4708896.107	772.888	Poste
70	737944.423	4708930.788	773.685	Poste
71	737908.247	4708965.638	774.329	Poste

Punto	X	Y	Z	Nombre
72	737869.341	4709003.390	773.728	Poste
79	737822.869	4709036.651	774.335	Poste
78	737777.968	4709068.720	779.143	Poste
77	737694.330	4709127.824	780.008	Poste
76	737655.374	4709155.125	783.582	Poste
75	737613.219	4709184.280	786.283	Poste
74	737573.143	4709213.956	790.926	Poste
73	737535.516	4709240.075	787.036	Poste
P.K.12+000				
80	737346.576	4709307.060	787.299	Poste
81	737330.232	4709290.859	774.646	Poste
82	737311.242	4709275.846	771.529	Poste
83	737266.400	4709297.265	769.797	Poste
P.K.12+460				
84	736946.711	4709578.367	765.808	Poste
85	736969.253	4709561.944	776.336	Poste
71	736957.303	4709525.527	761.246	Poste
140	737024.067	4709452.660	763.364	Poste

**5.1.2. Sistema de referencia ETRS 89 UTM HUSO 30**

Punto	X	Y	Z	Nombre
P.K.1+840				
194	746484,93	4706455,81	668,261	Poste
227	746463,063	4706493,18	673,775	Poste
139	746441,281	4706526,67	677,661	Poste
2	746420,486	4706561,08	681,915	Poste
1	746376,933	4706584,44	678,226	Poste
P.K.4+320				
Punto	X	Y	Z	Nombre
104	744201,808	4706671,74	681,543	Poste
96	744166,518	4706647,02	682,564	Poste
5	744080,552	4706645,38	686,021	Poste
6	743987,877	4706610,15	687,943	Poste
7	743939,68	4706592,13	688,791	Poste
8	743894,074	4706575,02	688,916	Poste
9	743847,168	4706557,24	689,322	Poste
10	743797,402	4706537,8	688,591	Poste
11	743749,227	4706518,94	687,804	Poste
12	743701,47	4706500,29	687,167	Poste
13	743652,453	4706481,36	686,93	Poste
14	743603,63	4706462,14	685,898	Poste
15	743553,505	4706442,6	685,169	Poste
16	743505,725	4706435,25	686,31	Poste
17	743460,792	4706450,62	687,143	Poste
18	743417,451	4706465,94	688,03	Poste
19	743374,5	4706481,38	688,422	Poste
20	743331,204	4706496,96	689,23	Poste
21	743293,198	4706510,4	689,548	Poste
22	743255,34	4706524	690,489	Poste
23	743207,637	4706547,29	691,207	Poste
24	743166,561	4706577,86	691,928	Poste
P.K.5+720				
Punto	X	Y	Z	Nombre
25	742975,467	4706696,55	694,755	Poste
26	742927,116	4706710,51	694,481	Poste
27	742886,666	4706713,49	692,894	Poste

28	742879,168	4706724,19	695,103	Poste
Punto	X	Y	Z	Nombre
29	742840,458	4706735,55	694,971	Poste
30	742842,452	4706770,52	698,648	Poste
31	742783,983	4706763,08	697,548	Poste
32	742723,784	4706755,11	696,942	Poste
P.K.8+000				
Punto	X	Y	Z	Nombre
37	741015,071	4707008,83	723,084	Poste
38	740967,115	4707023,12	724,996	Poste
39	740920,389	4707036,9	728,227	Poste
48	740869,263	4707052,62	729,043	Poste
49	740817,423	4707067,57	730,725	Poste
50	740770,244	4707081,61	731,409	Poste
51	740722,308	4707095,88	731,668	Poste
52	740670,004	4707111,98	730,234	Poste
53	740612,195	4707130,49	729,734	Poste
54	740564,976	4707145,42	729,692	Poste
55	740518,092	4707160,62	730,364	Poste
56	740476,152	4707174,32	731,282	Poste
57	740425,842	4707190,83	731,411	Poste
58	740381,459	4707205,43	733,506	Poste
59	740345,274	4707217,2	737,82	Poste
60	740297,474	4707233,18	737,84	Poste
61	740253,24	4707252,27	739,853	Poste
62	740206,111	4707273,28	745,521	Poste
P.K.11+300				
Punto	X	Y	Z	Nombre
69	737873,041	4708686,08	772,89	Poste
70	737837,198	4708720,76	773,686	Poste
71	737801,022	4708755,61	774,33	Poste
72	737762,116	4708793,37	773,729	Poste
79	737715,644	4708826,63	774,336	Poste
78	737670,743	4708858,7	779,144	Poste
77	737587,104	4708917,81	780,009	Poste
76	737548,148	4708945,11	783,583	Poste
75	737505,992	4708974,27	786,284	Poste
74	737465,916	4709003,94	790,927	Poste
73	737428,289	4709030,06	787,037	Poste

P.K.12+000				
Punto	X	Y	Z	Nombre
80	737239,346	4709097,05	787,3	Poste
81	737223,001	4709080,85	774,647	Poste
82	737204,01	4709065,84	771,53	Poste
83	737159,168	4709087,26	769,797	Poste
P.K.12+460				
Punto	X	Y	Z	Nombre
84	736839,477	4709368,38	765,807	Poste
85	736862,02	4709351,95	776,336	Poste
Punto	X	Y	Z	Nombre
140	736916,832	4709242,66	763,364	Poste

**5.2. LÍNEAS ELÉCTRICAS AFECTADAS**

**5.2.1. Sistema de referencia ED 50 UTM HUSO 30**

Punto	X	Y	Z	Nombre
P.K.7+720 15Kv a C.T JAVIERRE DE ARA				
46	740949.099	4707324.103	733.966	POSTE
47	740987.927	4707286.582	730.581	POSTE
45	741010.780	4707351.806	736.751	POSTE
44	741021.817	4707329.907	734.708	POSTE
41	741031.462	4707268.930	729.049	TORRE
42	741033.878	4707270.541	728.974	
43	741032.146	4707272.933	729.012	
40	741027.705	4707248.528	728.306	POSTE
33	740925.080	4707182.949	723.708	TORRE
34	740924.200	4707183.951	723.792	
35	740923.161	4707183.094	723.708	
36	740923.929	4707181.961	723.564	
P.K.10+680 15kv a C.T. ARRESA				
68	738446.084	4708599.846	767.420	POSTE
67	738403.762	4708553.987	759.722	POSTE
63	738382.544	4708531.738	755.136	TORRE
64	738381.832	4708530.863	755.046	
65	738382.666	4708530.054	755.232	
66	738383.495	4708530.909	755.160	



**5.2.2. Sistema de referencia ETRS 89 UTM HUSO 30**

Punto	X	Y	Z	Nombre
P.K.7+720 15Kv a C.T JAVIERRE DE ARA				
46	740841,909	4707113,972	733,971	POSTE
47	740880,737	4707076,449	730,586	POSTE
45	740903,592	4707141,674	736,756	POSTE
44	740914,628	4707119,774	734,713	POSTE
41	740924,272	4707058,795	729,054	TORRE
42	740926,688	4707060,406	728,979	
43	740924,956	4707062,799	729,017	
40	740920,515	4707038,393	728,311	POSTE
33	740817,886	4706972,815	723,713	TORRE
34	740817,006	4706973,817	723,797	
35	740815,967	4706972,960	723,713	
36	740816,735	4706971,827	723,569	
P.K.10+680 15kv a C.T. ARRESA				
68	738338,864	4708389,799	767,422	POSTE
67	738296,540	4708343,940	759,724	POSTE
63	738275,321	4708321,691	755,138	TORRE
64	738274,609	4708320,816	755,048	
65	738275,443	4708320,007	755,234	
66	738276,272	4708320,862	755,162	

### 5.3. ENLACE CON CARRETERAS EXISTENTES

#### 5.3.1. Sistema de referencia ED 50 UTM HUSO 30

Punto	X	Y	Z
ENLACE N-260 EN P.K. 0+000			
7	748502.602	4706299.371	641.287
8	748490.635	4706305.396	641.323
9	748481.073	4706310.028	641.400
10	748471.206	4706314.248	641.454
11	748462.088	4706317.883	641.506
12	748452.093	4706321.328	641.552
13	748440.767	4706324.803	641.652
14	748430.553	4706327.553	641.740
15	748420.286	4706329.927	641.820
16	748411.185	4706331.730	641.887
17	748398.435	4706333.662	641.966
18	748385.077	4706335.118	642.029
19	748374.512	4706335.817	642.098
20	748364.323	4706336.228	642.199
21	748354.454	4706336.375	642.334
22	748343.988	4706336.235	642.483
23	748334.895	4706335.917	642.580
24	748322.586	4706335.529	642.756
25	748310.235	4706335.188	642.850
26	748294.592	4706334.562	642.969
27	748283.502	4706334.088	643.080
28	748272.197	4706333.575	643.149
29	748263.454	4706333.000	643.279
30	748251.045	4706332.087	643.363
31	748238.923	4706330.942	643.512
32	748227.634	4706329.413	643.650
33	748218.717	4706327.806	643.744
34	748208.581	4706325.263	643.893
35	748199.750	4706322.446	643.888
36	748190.024	4706318.476	643.962
37	748180.165	4706314.216	644.170
40	748159.704	4706309.463	644.612

Punto	X	Y	Z
41	748165.302	4706311.996	644.461
42	748180.054	4706318.471	644.164
43	748194.487	4706324.609	644.040
44	748201.866	4706327.530	644.090
45	748210.262	4706330.195	644.043
46	748218.712	4706332.034	643.941
47	748233.614	4706334.452	643.646
48	748245.271	4706336.063	643.506
49	748254.238	4706336.953	643.381
50	748263.805	4706337.858	643.291
51	748278.357	4706339.144	643.174
52	748287.538	4706339.781	643.091
53	748296.227	4706340.333	643.031
54	748306.244	4706341.014	642.967
55	748316.090	4706341.590	642.865
56	748326.063	4706342.170	642.808
57	748335.105	4706342.649	642.726
58	748343.903	4706343.032	642.684
59	748353.744	4706343.157	642.597
60	748364.661	4706343.080	642.504
61	748376.103	4706342.661	642.416
62	748386.183	4706341.959	642.377
63	748397.209	4706340.769	642.344
64	748406.064	4706339.538	642.305
65	748415.710	4706337.901	642.272
66	748425.717	4706335.803	642.212
67	748435.024	4706333.526	642.137
68	748443.337	4706331.250	642.075
69	748454.149	4706327.864	641.985
70	748464.049	4706324.422	641.888
71	748473.896	4706320.624	641.794
72	748483.567	4706316.592	641.714
73	748493.539	4706311.875	641.605
74	748501.773	4706307.870	641.523
75	748510.181	4706303.662	641.408
100	748186.986	4706317.148	644.052
101	748183.354	4706319.946	644.124
102	748171.706	4706314.832	644.325
103	748172.643	4706310.865	644.327

Punto	X	Y	Z
104	748161.150	4706305.788	644.649
105	748159.229	4706309.307	644.666
106	748148.593	4706304.716	645.101
107	748149.668	4706300.826	645.152
108	748137.338	4706295.554	645.866
109	748135.495	4706299.136	645.944
110	748124.705	4706294.762	646.549
111	748124.399	4706290.155	646.648
112	748116.049	4706286.615	647.188
113	748113.793	4706290.579	647.143
114	748100.505	4706280.677	647.974
115	748098.142	4706285.289	648.067
116	748082.955	4706279.758	648.942
117	748084.085	4706274.805	649.002
118	748073.139	4706270.919	649.906
119	748071.509	4706275.898	649.703
120	748061.799	4706273.918	650.299
121	748061.475	4706267.724	650.670
122	748054.331	4706266.553	651.133
123	748054.062	4706272.994	650.737
124	748043.948	4706273.304	651.382
125	748043.387	4706266.689	651.782
126	748034.735	4706267.941	652.249
127	748026.145	4706270.537	652.714
150	748049.466	4706272.966	651.049
151	748037.045	4706274.376	651.931
152	748027.341	4706276.693	652.615
153	748014.939	4706274.878	653.375
154	748001.293	4706280.003	654.226
155	747985.423	4706284.644	655.243
156	747974.219	4706286.591	656.118
157	747962.303	4706287.523	656.955
158	747954.708	4706287.665	657.432
159	747955.166	4706292.543	657.580
160	747963.805	4706292.526	656.983
161	747972.953	4706291.815	656.341
162	747981.543	4706290.548	655.737
163	747990.398	4706288.683	655.183

Punto	X	Y	Z
164	747999.991	4706285.968	654.545
165	748008.864	4706282.874	653.923
166	748018.825	4706279.156	653.198
167	748026.810	4706276.822	652.653
168	748032.731	4706275.330	652.244
CAMINO ENTRE P.K. 2+840 Y P.K. 3+760			
1	744794.174	4706465.373	677.279
2	744786.301	4706468.979	677.124
3	744779.958	4706473.014	676.509
4	744772.173	4706478.799	676.071
5	744766.136	4706482.535	675.705
6	744753.788	4706488.517	676.203
7	744743.782	4706493.772	676.573
8	744736.811	4706498.116	676.699
9	744729.184	4706502.808	676.621
10	744722.158	4706507.385	676.430
11	744713.714	4706513.064	676.791
12	744706.044	4706518.032	676.946
13	744696.356	4706524.641	677.233
14	744695.224	4706522.847	677.312
15	744704.374	4706516.634	677.153
16	744710.320	4706512.622	676.944
17	744718.803	4706506.850	676.765
18	744727.019	4706501.390	676.731
19	744735.398	4706496.666	676.719
20	744742.026	4706492.456	676.594
21	744750.312	4706487.874	676.415
22	744758.327	4706484.090	676.013
23	744765.887	4706480.229	675.810
24	744773.114	4706475.419	676.135
25	744781.990	4706468.882	676.981
26	744790.525	4706464.090	677.431
27	744801.058	4706462.440	677.437
28	744800.224	4706460.321	677.518
29	744809.405	4706457.317	677.479
30	744809.961	4706459.388	677.471

Punto	X	Y	Z
31	744816.951	4706457.580	677.292
32	744815.805	4706455.557	677.359
33	744824.563	4706453.025	676.692
34	744825.230	4706455.266	676.722
35	744838.145	4706450.090	676.560
36	744838.040	4706447.674	676.773
37	744849.351	4706442.413	676.476
38	744850.481	4706444.645	676.354
39	744859.974	4706440.374	676.488
40	744869.921	4706434.926	676.578
41	744870.443	4706437.816	676.544
42	744879.849	4706437.031	676.642
43	744879.123	4706433.678	676.714
44	744890.080	4706432.034	676.456
45	744890.333	4706434.300	676.435
46	744900.708	4706431.624	676.483
47	744900.060	4706429.150	676.599
48	744911.148	4706425.116	676.872
49	744911.464	4706427.995	676.856
50	744919.751	4706425.544	676.731
51	744919.170	4706423.068	676.868
52	744926.720	4706421.731	676.872
53	744926.827	4706424.183	676.823
54	744934.598	4706423.499	676.632
55	744933.979	4706421.107	676.727
56	744936.534	4706422.959	676.537
57	744934.681	4706422.179	676.668
60	744939.980	4706423.096	676.482
61	744939.488	4706420.900	676.552
62	744950.283	4706420.651	676.270
63	744950.398	4706422.983	676.238
64	744958.783	4706422.795	676.011
65	744958.685	4706420.610	676.054
66	744967.894	4706419.866	675.775
67	744968.378	4706422.024	675.738
68	744974.790	4706420.928	675.580
69	744974.690	4706418.636	675.609
70	744981.298	4706416.840	675.249
71	744981.983	4706418.924	675.298

Punto	X	Y	Z
72	744988.837	4706415.693	674.941
73	744987.963	4706413.799	674.960
200	744998.049	4706411.629	674.753
201	744997.052	4706409.283	674.745
202	745006.263	4706408.802	674.466
203	745005.655	4706406.058	674.499
204	745014.984	4706403.338	674.653
205	745016.047	4706406.174	674.588
206	745024.967	4706404.374	674.766
207	745024.657	4706401.198	674.857
300	745029.397	4706403.678	674.765
301	745028.592	4706400.363	674.867
302	745036.948	4706399.453	674.866
303	745037.323	4706402.703	674.708
304	745048.834	4706401.273	674.701
305	745049.276	4706398.088	674.796
306	745059.856	4706397.094	674.813
307	745060.349	4706399.894	674.757
308	745069.714	4706399.348	674.741
309	745070.119	4706396.876	674.759
310	745079.489	4706397.280	674.419
311	745079.109	4706399.990	674.341
312	745086.020	4706400.281	674.396
313	745086.509	4706397.602	674.396
314	745095.470	4706397.063	674.385
315	745095.545	4706399.637	674.354
316	745105.665	4706398.140	674.347
317	745105.932	4706395.408	674.313
318	745116.089	4706393.983	674.226
319	745115.819	4706396.553	674.249
320	745124.769	4706395.229	674.158
321	745125.508	4706392.547	674.192
322	745133.987	4706392.024	674.013
323	745133.902	4706394.753	673.981
324	745141.490	4706394.794	673.737
325	745141.530	4706392.102	673.900
326	745149.526	4706392.784	674.121
327	745149.255	4706395.206	674.038
400	745152.789	4706395.781	674.080

Punto	X	Y	Z
401	745153.035	4706393.109	674.173
402	745161.133	4706396.801	674.189
403	745161.132	4706394.294	674.195
404	745168.908	4706395.300	674.294
405	745168.359	4706397.721	674.310
406	745177.378	4706398.921	674.432
407	745177.961	4706396.471	674.388
408	745186.080	4706400.062	674.434
409	745186.963	4706397.621	674.400
410	745195.782	4706401.929	674.117
411	745196.282	4706398.768	674.349
412	745205.301	4706400.382	674.489
413	745204.445	4706403.134	674.381
414	745214.865	4706405.170	674.168
415	745215.100	4706402.192	674.213
416	745223.956	4706403.878	674.080
417	745223.674	4706406.695	673.967
418	745233.670	4706407.368	674.226
419	745234.230	4706404.892	674.213
420	745239.999	4706405.066	674.257
421	745239.813	4706407.628	674.260
422	745246.768	4706407.209	674.322
500	745250.553	4706406.990	674.331
501	745250.396	4706404.683	674.281
502	745259.123	4706403.884	674.372
503	745259.201	4706406.201	674.405
504	745267.326	4706404.939	674.368
505	745266.919	4706402.485	674.392
506	745274.325	4706403.093	674.170
507	745274.293	4706403.054	674.177
508	745272.681	4706400.664	674.134
509	745274.961	4706399.132	673.887
510	745276.737	4706402.277	673.957
511	745285.124	4706398.400	674.257
512	745283.733	4706396.239	674.308
513	745292.724	4706392.700	674.210
514	745293.454	4706395.474	674.248
515	745302.021	4706393.374	674.186

Punto	X	Y	Z
516	745301.605	4706390.279	674.170
517	745310.992	4706388.262	674.102
518	745311.448	4706391.319	674.112
519	745321.677	4706389.756	673.916
520	745321.506	4706386.836	673.995
521	745327.814	4706386.047	673.940
522	745334.728	4706385.379	673.845
523	745338.745	4706384.899	673.838
800	745337.849	4706388.344	673.768
801	745338.595	4706385.546	673.747
802	745348.041	4706384.833	673.569
803	745347.792	4706387.448	673.617
804	745356.266	4706387.049	673.363
805	745356.566	4706384.391	673.380
806	745366.366	4706384.553	672.986
807	745366.265	4706387.389	672.958
808	745374.223	4706388.642	672.279
809	745375.451	4706386.243	672.303
810	745383.326	4706388.251	671.689
811	745382.335	4706390.687	671.726
812	745389.245	4706392.284	671.409
813	745390.189	4706389.883	671.376
814	745397.865	4706390.788	671.221
815	745399.404	4706393.485	671.159
816	745409.193	4706393.836	671.024
817	745409.238	4706391.139	670.960
818	745419.253	4706391.740	670.855
819	745420.120	4706394.438	670.770
820	745428.656	4706394.237	670.997
821	745428.323	4706391.922	670.982
822	745432.559	4706393.933	671.011
823	745439.659	4706393.024	670.883
850	745442.026	4706392.848	670.797
851	745440.737	4706390.207	670.914
852	745448.576	4706388.726	670.855
853	745449.079	4706391.513	670.722
854	745458.132	4706390.008	670.788
855	745457.233	4706387.397	670.821



Punto	X	Y	Z
856	745467.938	4706388.347	670.239
857	745467.564	4706385.525	670.178
858	745476.790	4706383.216	669.794
859	745476.705	4706386.205	669.791
860	745484.246	4706383.922	669.501
861	745482.988	4706381.263	669.732
862	745488.106	4706381.979	669.661
863	745487.208	4706379.380	669.771
864	745494.167	4706375.543	669.916
865	745495.195	4706377.671	669.913
900	745497.982	4706376.030	670.009
901	745496.764	4706373.824	670.016
902	745503.169	4706370.000	670.174
903	745509.648	4706365.872	670.286
904	745515.161	4706362.235	670.427
905	745523.388	4706357.211	670.642
906	745530.780	4706353.361	670.446
907	745539.722	4706349.031	670.653
908	745546.786	4706345.559	670.807
909	745554.090	4706341.598	671.052
910	745561.971	4706336.780	670.995
911	745569.089	4706332.469	671.009
912	745575.732	4706328.152	670.970
913	745582.356	4706324.009	670.930
914	745588.285	4706319.832	670.820
915	745593.661	4706315.820	670.727
916	745598.975	4706312.112	670.585
917	745600.857	4706313.725	670.599
918	745593.053	4706319.199	670.684
919	745586.101	4706324.063	670.830
920	745579.136	4706329.073	670.950
921	745573.481	4706332.764	670.989
922	745568.660	4706335.978	670.894
923	745563.520	4706339.080	670.793
924	745556.788	4706342.886	670.977
925	745550.664	4706346.279	670.811
926	745543.329	4706349.985	670.635
927	745537.192	4706353.242	670.519
928	745530.883	4706356.540	670.301

Punto	X	Y	Z
929	745525.487	4706359.320	670.492
930	745518.909	4706362.810	670.456
931	745513.077	4706366.308	670.326
932	745506.679	4706370.490	670.208
933	745499.438	4706375.108	670.031

**5.3.2. Sistema de referencia ETRS 89 UTM HUSO 30**

Punto	X	Y	Z
7	748395,564	4706089,049	641,288
8	748383,597	4706095,075	641,324
9	748374,035	4706099,707	641,401
10	748364,167	4706103,927	641,455
11	748355,049	4706107,563	641,507
12	748345,054	4706111,008	641,553
13	748333,728	4706114,483	641,653
14	748323,514	4706117,234	641,741
15	748313,247	4706119,608	641,821
16	748304,145	4706121,411	641,888
17	748291,395	4706123,343	641,967
18	748278,037	4706124,800	642,030
19	748267,472	4706125,499	642,099
20	748257,282	4706125,910	642,200
21	748247,413	4706126,057	642,335
22	748236,947	4706125,918	642,484
23	748227,854	4706125,600	642,581
24	748215,544	4706125,212	642,757
25	748203,193	4706124,871	642,851
26	748187,550	4706124,246	642,970
27	748176,460	4706123,772	643,081
28	748165,154	4706123,259	643,150
29	748156,411	4706122,684	643,280
30	748144,002	4706121,772	643,364
31	748131,879	4706120,627	643,513
32	748120,590	4706119,098	643,651
33	748111,673	4706117,491	643,745
34	748101,537	4706114,948	643,894
35	748092,705	4706112,132	643,889
36	748082,979	4706108,162	643,963
37	748073,120	4706103,902	644,171
40	748052,658	4706099,149	644,613
41	748058,256	4706101,682	644,462
42	748073,009	4706108,157	644,165
43	748087,442	4706114,295	644,041
44	748094,822	4706117,216	644,091
45	748103,218	4706119,881	644,044
46	748111,668	4706121,719	643,942
47	748126,570	4706124,137	643,647
48	748138,228	4706125,748	643,507

Punto	X	Y	Z
49	748147,195	4706126,638	643,382
50	748156,762	4706127,543	643,292
51	748171,315	4706128,828	643,175
52	748180,496	4706129,465	643,092
53	748189,185	4706130,017	643,032
54	748199,202	4706130,698	642,968
55	748209,048	4706131,273	642,866
56	748219,022	4706131,853	642,809
57	748228,064	4706132,332	642,727
58	748236,862	4706132,715	642,685
59	748246,703	4706132,840	642,598
60	748257,621	4706132,762	642,505
61	748269,063	4706132,343	642,417
62	748279,143	4706131,641	642,378
63	748290,169	4706130,451	642,345
64	748299,025	4706129,219	642,306
65	748308,671	4706127,582	642,273
66	748318,678	4706125,484	642,213
67	748327,985	4706123,207	642,138
68	748336,298	4706120,930	642,076
69	748347,110	4706117,544	641,986
70	748357,011	4706114,102	641,889
71	748366,858	4706110,303	641,795
72	748376,529	4706106,271	641,715
73	748386,501	4706101,554	641,606
74	748394,735	4706097,549	641,524
75	748403,143	4706093,340	641,409
100	748079,941	4706106,834	644,053
101	748076,309	4706109,632	644,125
102	748064,661	4706104,518	644,326
103	748065,597	4706100,551	644,328
104	748054,104	4706095,474	644,651
105	748052,183	4706098,993	644,667
106	748041,547	4706094,402	645,103
107	748042,622	4706090,512	645,154
108	748030,291	4706085,240	645,868
109	748028,448	4706088,822	645,946
110	748017,658	4706084,449	646,551
111	748017,352	4706079,841	646,650
112	748009,002	4706076,302	647,190
113	748006,746	4706080,266	647,145

114	747993,457	4706070,364	647,976
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
115	747991,094	4706074,976	648,069
116	747975,907	4706069,445	648,944
117	747977,037	4706064,492	649,004
118	747966,090	4706060,606	649,908
119	747964,460	4706065,585	649,705
120	747954,750	4706063,605	650,301
121	747954,426	4706057,411	650,672
122	747947,282	4706056,240	651,135
123	747947,013	4706062,682	650,739
124	747936,899	4706062,992	651,384
125	747936,338	4706056,377	651,784
126	747927,685	4706057,629	652,251
127	747919,095	4706060,225	652,716
150	747942,417	4706062,654	651,051
151	747929,996	4706064,064	651,933
152	747920,291	4706066,381	652,617
153	747907,889	4706064,567	653,377
154	747894,243	4706069,692	654,228
155	747878,373	4706074,333	655,245
156	747867,168	4706076,281	656,120
157	747855,252	4706077,213	656,957
158	747847,657	4706077,355	657,434
159	747848,115	4706082,233	657,582
160	747856,754	4706082,216	656,985
161	747865,902	4706081,505	656,343
162	747874,493	4706080,238	655,739
163	747883,348	4706078,372	655,185
164	747892,941	4706075,657	654,547
165	747901,814	4706072,563	653,925
166	747911,775	4706068,845	653,200
167	747919,760	4706066,510	652,655
168	747925,681	4706065,018	652,246
CAMINO ENTRE P.K. 2+840 Y P.K. 3+760			
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
1	744687,054	4706255,137	677,283
2	744679,181	4706258,743	677,128
3	744672,837	4706262,778	676,513
4	744665,052	4706268,564	676,075
5	744659,015	4706272,3	675,709

6	744646,667	4706278,282	676,207
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
7	744636,661	4706283,538	676,577
8	744629,69	4706287,882	676,703
9	744622,063	4706292,574	676,625
10	744615,037	4706297,151	676,434
11	744606,593	4706302,831	676,795
12	744598,923	4706307,799	676,95
13	744589,235	4706314,408	677,237
14	744588,103	4706312,614	677,316
15	744597,253	4706306,401	677,157
16	744603,199	4706302,389	676,948
17	744611,682	4706296,616	676,769
18	744619,898	4706291,156	676,735
19	744628,277	4706286,432	676,723
20	744634,905	4706282,222	676,598
21	744643,191	4706277,639	676,419
22	744651,206	4706273,855	676,017
23	744658,766	4706269,994	675,814
24	744665,993	4706265,184	676,139
25	744674,869	4706258,646	676,985
26	744683,405	4706253,854	677,435
27	744693,938	4706252,204	677,441
28	744693,104	4706250,085	677,522
29	744702,285	4706247,08	677,483
30	744702,841	4706249,151	677,475
31	744709,831	4706247,343	677,296
32	744708,685	4706245,32	677,363
33	744717,443	4706242,788	676,696
34	744718,11	4706245,029	676,726
35	744731,025	4706239,853	676,564
36	744730,92	4706237,437	676,777
37	744742,231	4706232,175	676,48
38	744743,362	4706234,407	676,358
39	744752,855	4706230,136	676,492
40	744762,802	4706224,688	676,582
41	744763,324	4706227,578	676,548
42	744772,73	4706226,792	676,646
43	744772,004	4706223,439	676,718
44	744782,961	4706221,795	676,46
45	744783,214	4706224,061	676,439
46	744793,589	4706221,385	676,487
47	744792,941	4706218,911	676,603

48	744804,029	4706214,876	676,876
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
49	744804,346	4706217,755	676,86
50	744812,633	4706215,304	676,735
51	744812,052	4706212,828	676,872
52	744819,602	4706211,491	676,876
53	744819,709	4706213,943	676,827
54	744827,48	4706213,259	676,636
55	744826,861	4706210,867	676,731
56	744829,416	4706212,719	676,541
57	744827,563	4706211,939	676,672
60	744832,862	4706212,856	676,486
61	744832,37	4706210,66	676,556
62	744843,165	4706210,41	676,274
63	744843,28	4706212,742	676,242
64	744851,666	4706212,554	676,015
65	744851,567	4706210,369	676,058
66	744860,777	4706209,625	675,779
67	744861,261	4706211,783	675,742
68	744867,673	4706210,687	675,584
69	744867,573	4706208,395	675,613
70	744874,181	4706206,599	675,253
71	744874,866	4706208,683	675,302
72	744881,72	4706205,451	674,945
73	744880,846	4706203,557	674,964
200	744890,932	4706201,387	674,757
201	744889,935	4706199,041	674,749
202	744899,146	4706198,56	674,47
203	744898,538	4706195,816	674,503
204	744907,867	4706193,096	674,657
205	744908,93	4706195,932	674,592
206	744917,851	4706194,131	674,77
207	744917,541	4706190,955	674,861
300	744922,281	4706193,435	674,769
301	744921,476	4706190,12	674,871
302	744929,832	4706189,21	674,87
303	744930,207	4706192,46	674,712
304	744941,718	4706191,03	674,705
305	744942,16	4706187,845	674,8
306	744952,74	4706186,85	674,817
307	744953,233	4706189,651	674,761
308	744962,599	4706189,104	674,745

309	744963,004	4706186,632	674,763
310	744972,374	4706187,036	674,423
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
311	744971,994	4706189,746	674,345
312	744978,905	4706190,037	674,4
313	744979,394	4706187,358	674,4
314	744988,355	4706186,819	674,389
315	744988,43	4706189,393	674,358
316	744998,55	4706187,895	674,351
317	744998,817	4706185,163	674,317
318	745008,975	4706183,738	674,23
319	745008,705	4706186,308	674,253
320	745017,655	4706184,984	674,162
321	745018,394	4706182,302	674,196
322	745026,873	4706181,779	674,017
323	745026,788	4706184,508	673,985
324	745034,376	4706184,549	673,741
325	745034,416	4706181,857	673,904
326	745042,412	4706182,538	674,125
327	745042,141	4706184,96	674,042
400	745045,675	4706185,535	674,084
401	745045,921	4706182,863	674,177
402	745054,02	4706186,555	674,193
403	745054,019	4706184,048	674,199
404	745061,795	4706185,054	674,298
405	745061,246	4706187,475	674,314
406	745070,265	4706188,675	674,436
407	745070,848	4706186,225	674,392
408	745078,967	4706189,816	674,438
409	745079,85	4706187,375	674,404
410	745088,67	4706191,683	674,121
411	745089,17	4706188,521	674,353
412	745098,189	4706190,135	674,493
413	745097,333	4706192,887	674,385
414	745107,753	4706194,923	674,172
415	745107,988	4706191,945	674,217
416	745116,844	4706193,631	674,084
417	745116,562	4706196,448	673,971
418	745126,559	4706197,121	674,23
419	745127,119	4706194,645	674,217
420	745132,888	4706194,819	674,261
421	745132,702	4706197,381	674,264

422	745139,657	4706196,962	674,326
500	745143,442	4706196,742	674,335
501	745143,285	4706194,435	674,285
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
502	745152,012	4706193,636	674,376
503	745152,09	4706195,953	674,409
504	745160,215	4706194,691	674,372
505	745159,808	4706192,237	674,396
506	745167,214	4706192,845	674,174
507	745167,182	4706192,806	674,181
508	745165,57	4706190,416	674,138
509	745167,85	4706188,884	673,891
510	745169,626	4706192,029	673,961
511	745178,014	4706188,152	674,261
512	745176,622	4706185,991	674,312
513	745185,614	4706182,451	674,214
514	745186,344	4706185,225	674,252
515	745194,911	4706183,125	674,19
516	745194,495	4706180,03	674,174
517	745203,882	4706178,013	674,106
518	745204,338	4706181,07	674,116
519	745214,567	4706179,507	673,92
520	745214,396	4706176,586	673,999
521	745220,704	4706175,797	673,944
522	745227,618	4706175,129	673,849
523	745231,635	4706174,649	673,842
800	745230,74	4706178,094	673,772
801	745231,486	4706175,296	673,751
802	745240,932	4706174,583	673,573
803	745240,683	4706177,198	673,621
804	745249,157	4706176,799	673,367
805	745249,457	4706174,141	673,384
806	745259,257	4706174,302	672,99
807	745259,156	4706177,138	672,962
808	745267,114	4706178,391	672,283
809	745268,342	4706175,992	672,307
810	745276,218	4706178	671,693
811	745275,227	4706180,436	671,73
812	745282,137	4706182,033	671,413
813	745283,081	4706179,632	671,38
814	745290,757	4706180,537	671,225
815	745292,296	4706183,234	671,163
816	745302,085	4706183,585	671,028

817	745302,13	4706180,888	670,964
818	745312,146	4706181,488	670,859
819	745313,013	4706184,186	670,774
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
820	745321,549	4706183,985	671,001
821	745321,216	4706181,67	670,986
822	745325,452	4706183,681	671,015
823	745332,552	4706182,772	670,887
850	745334,919	4706182,596	670,801
851	745333,63	4706179,955	670,918
852	745341,469	4706178,474	670,859
853	745341,972	4706181,261	670,726
854	745351,025	4706179,756	670,792
855	745350,126	4706177,144	670,825
856	745360,832	4706178,094	670,243
857	745360,457	4706175,272	670,182
858	745369,684	4706172,963	669,798
859	745369,599	4706175,952	669,795
860	745377,14	4706173,669	669,505
861	745375,882	4706171,01	669,736
862	745381	4706171,726	669,665
863	745380,102	4706169,127	669,775
864	745387,061	4706165,289	669,92
865	745388,089	4706167,417	669,917
900	745390,876	4706165,776	670,013
901	745389,658	4706163,57	670,02
902	745396,063	4706159,746	670,178
903	745402,542	4706155,618	670,29
904	745408,055	4706151,981	670,431
905	745416,282	4706146,956	670,646
906	745423,674	4706143,106	670,45
907	745432,616	4706138,776	670,657
908	745439,68	4706135,304	670,811
909	745446,985	4706131,342	671,056
910	745454,866	4706126,524	670,999
911	745461,984	4706122,213	671,013
912	745468,627	4706117,895	670,974
913	745475,251	4706113,752	670,934
914	745481,18	4706109,575	670,824
915	745486,556	4706105,563	670,731
916	745491,87	4706101,855	670,589
917	745493,752	4706103,468	670,603
918	745485,948	4706108,942	670,688

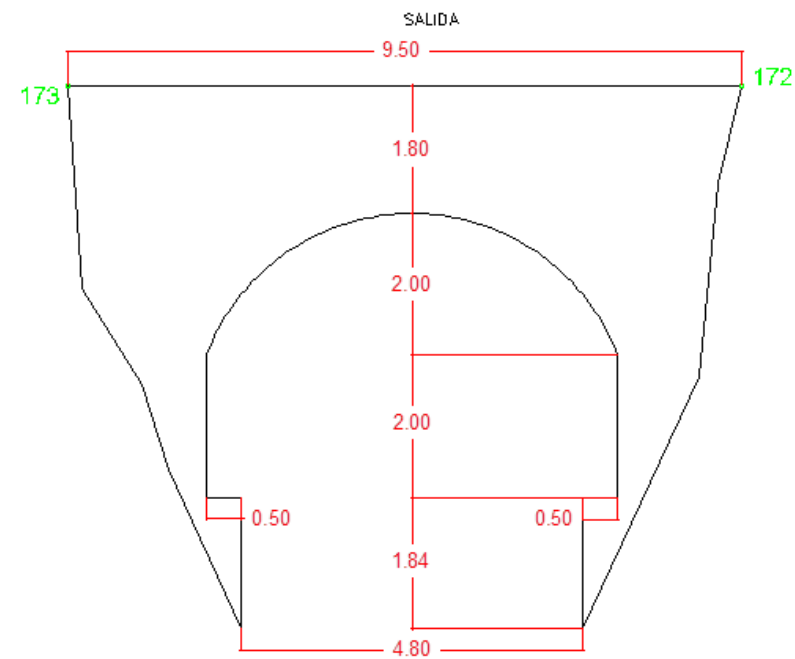
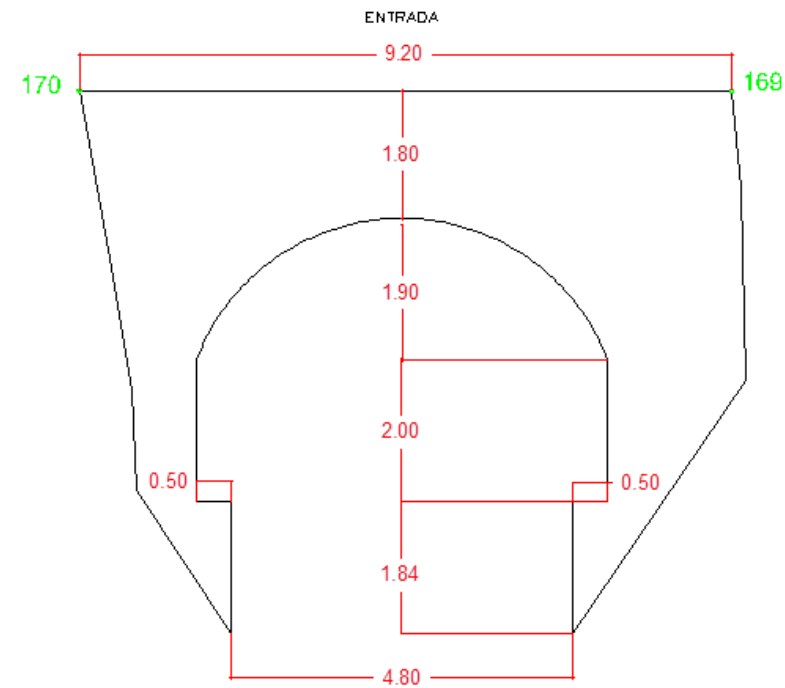
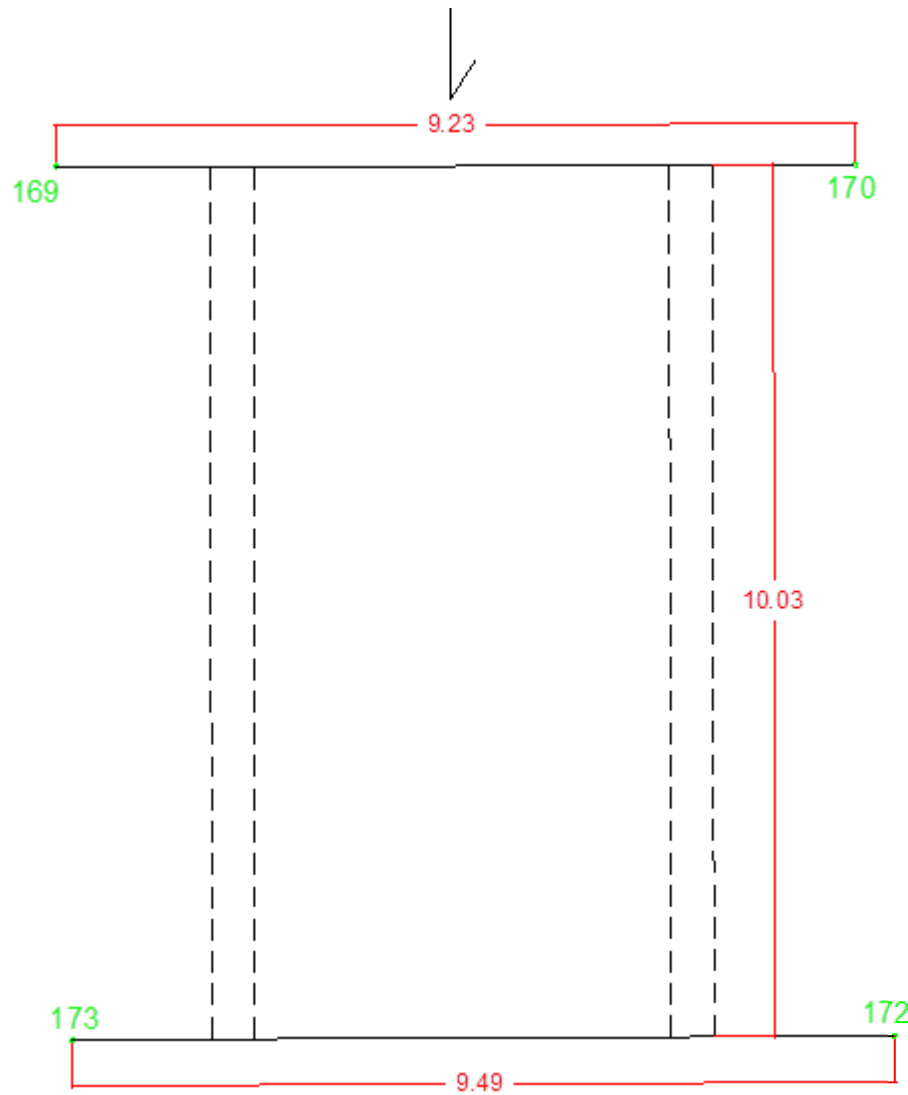


919	745478,996	4706113,806	670,834
920	745472,031	4706118,816	670,954
921	745466,376	4706122,508	670,993
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
922	745461,555	4706125,722	670,898
923	745456,415	4706128,824	670,797
924	745449,683	4706132,63	670,981
925	745443,559	4706136,023	670,815
926	745436,223	4706139,73	670,639
927	745430,086	4706142,987	670,523
928	745423,777	4706146,285	670,305
929	745418,381	4706149,065	670,496
930	745411,803	4706152,556	670,46
931	745405,971	4706156,054	670,33
932	745399,573	4706160,236	670,212
933	745392,332	4706164,854	670,035

5.4. OBRAS DE DRENAJE EXISTENTES

PK 449+700

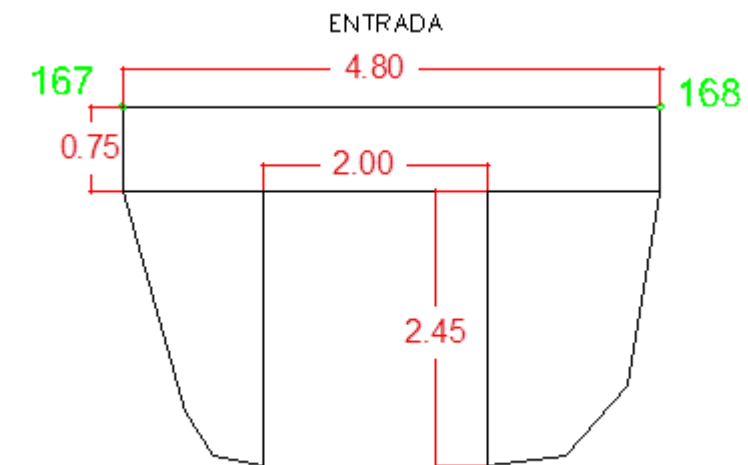
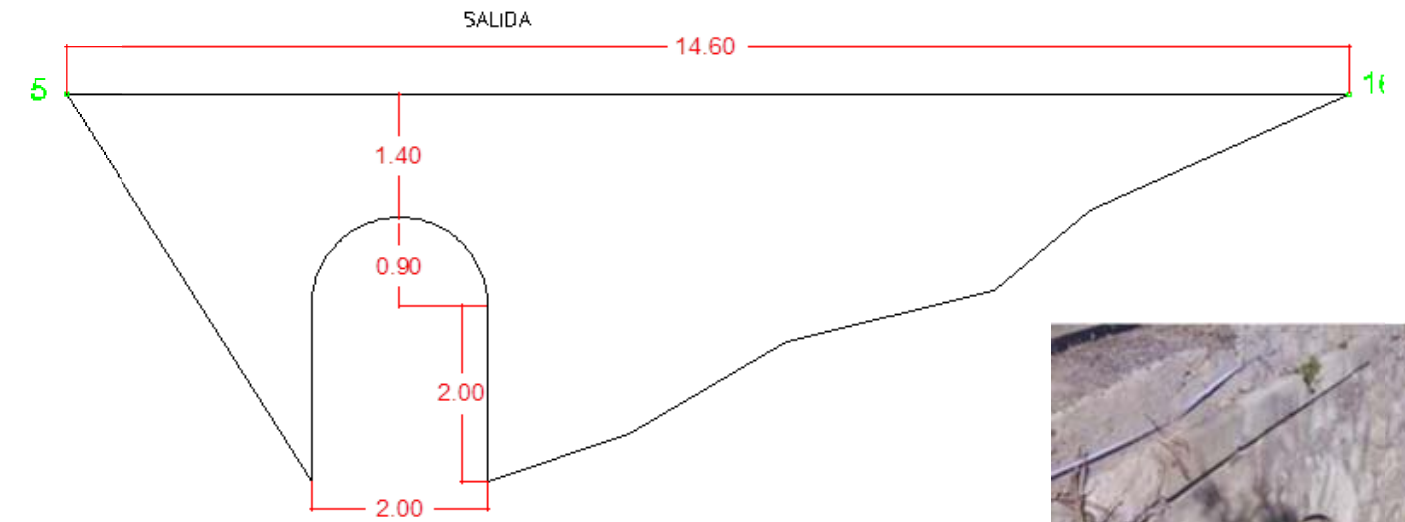
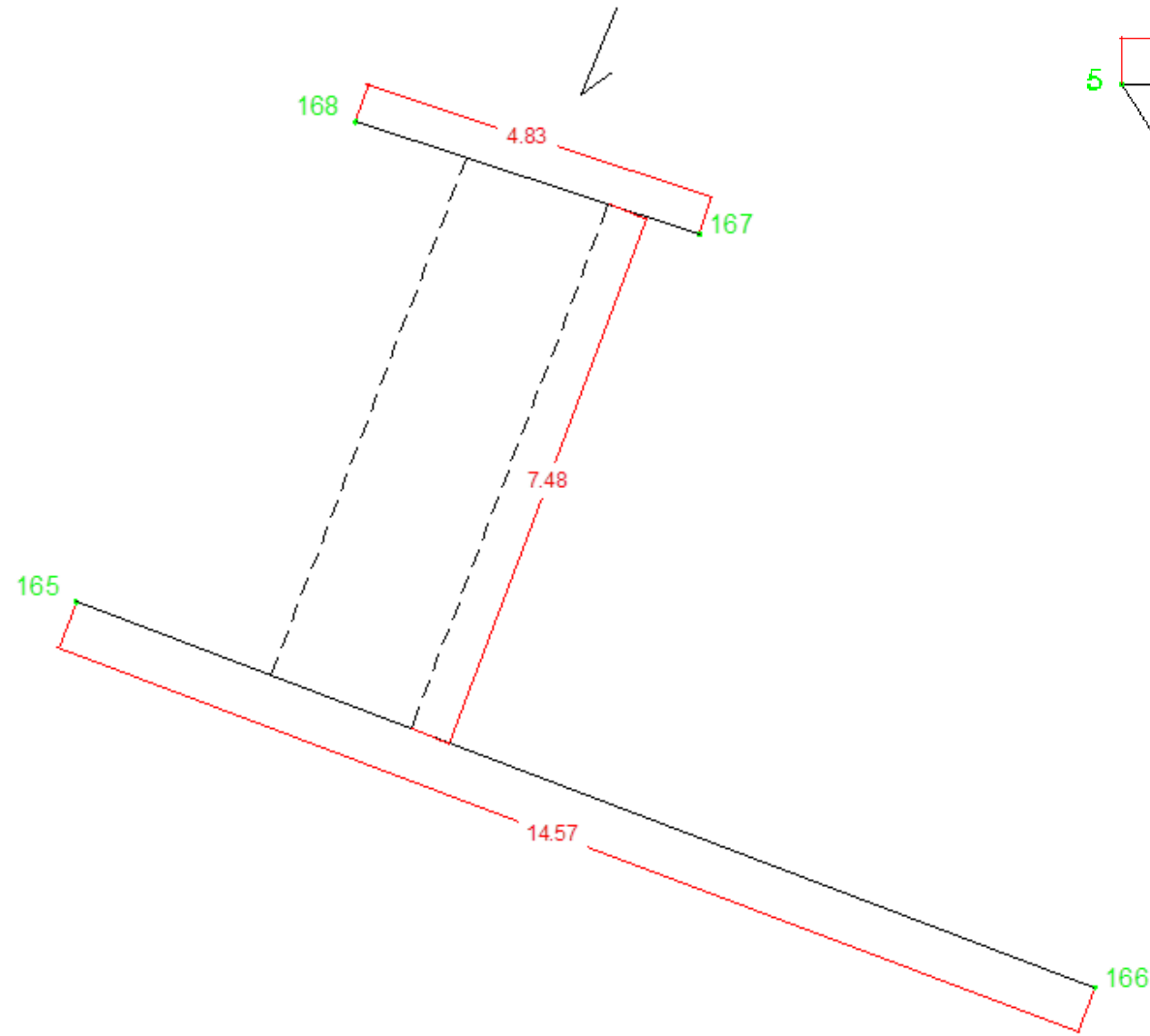
5.4.1. Fichas



ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
169	748243,895	4706134,305	642,752
170	748253,127	4706134,323	642,671
172	748253,575	4706124,297	642,269
173	748244,090	4706124,248	642,422

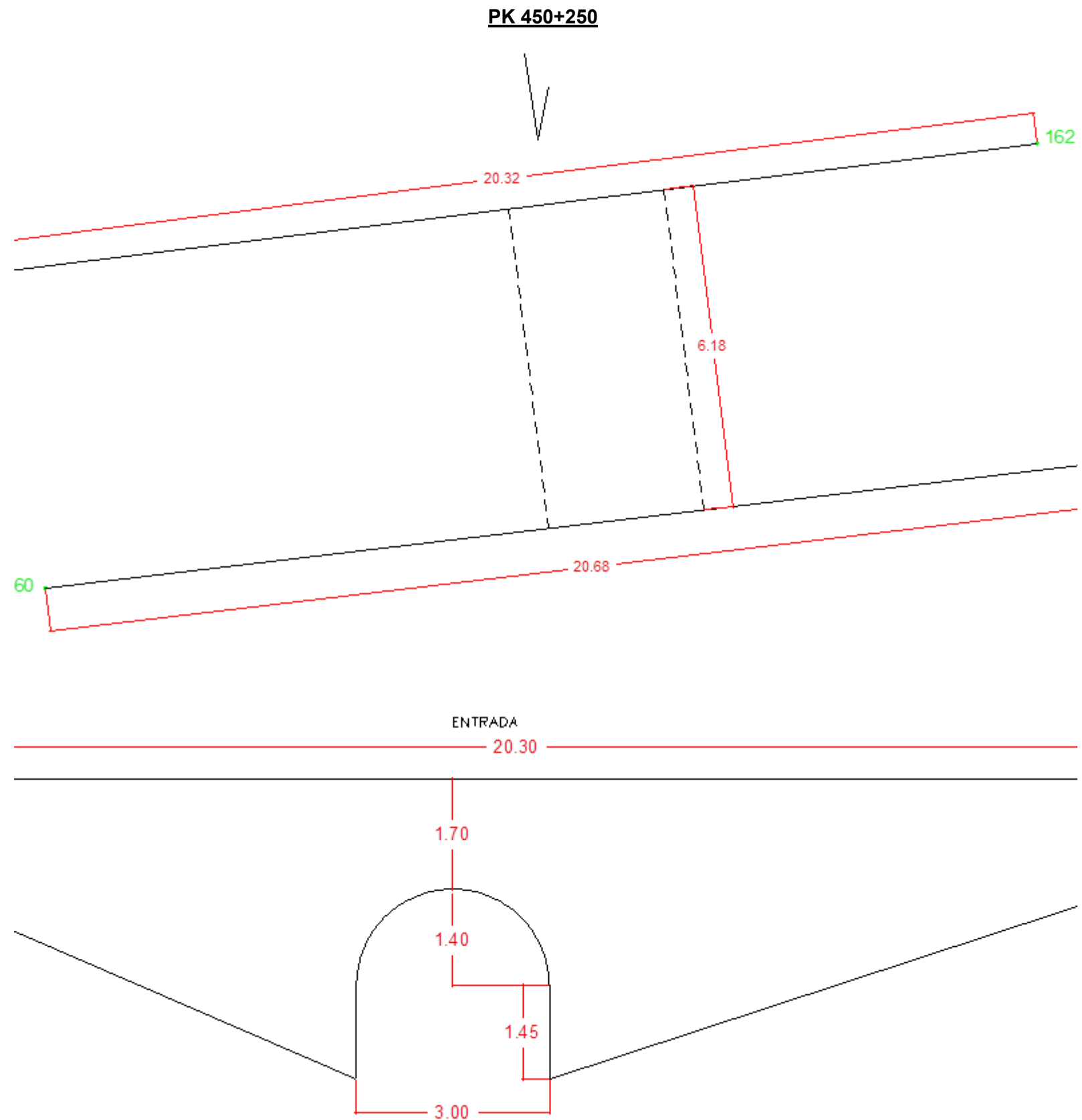
PUNTO	X	Y	Z
172	748360,616	4706334,615	642,268
170	748360,167	4706344,640	642,670
169	748350,936	4706344,622	642,751
173	748351,131	4706334,565	642,421

**PK 450+100**

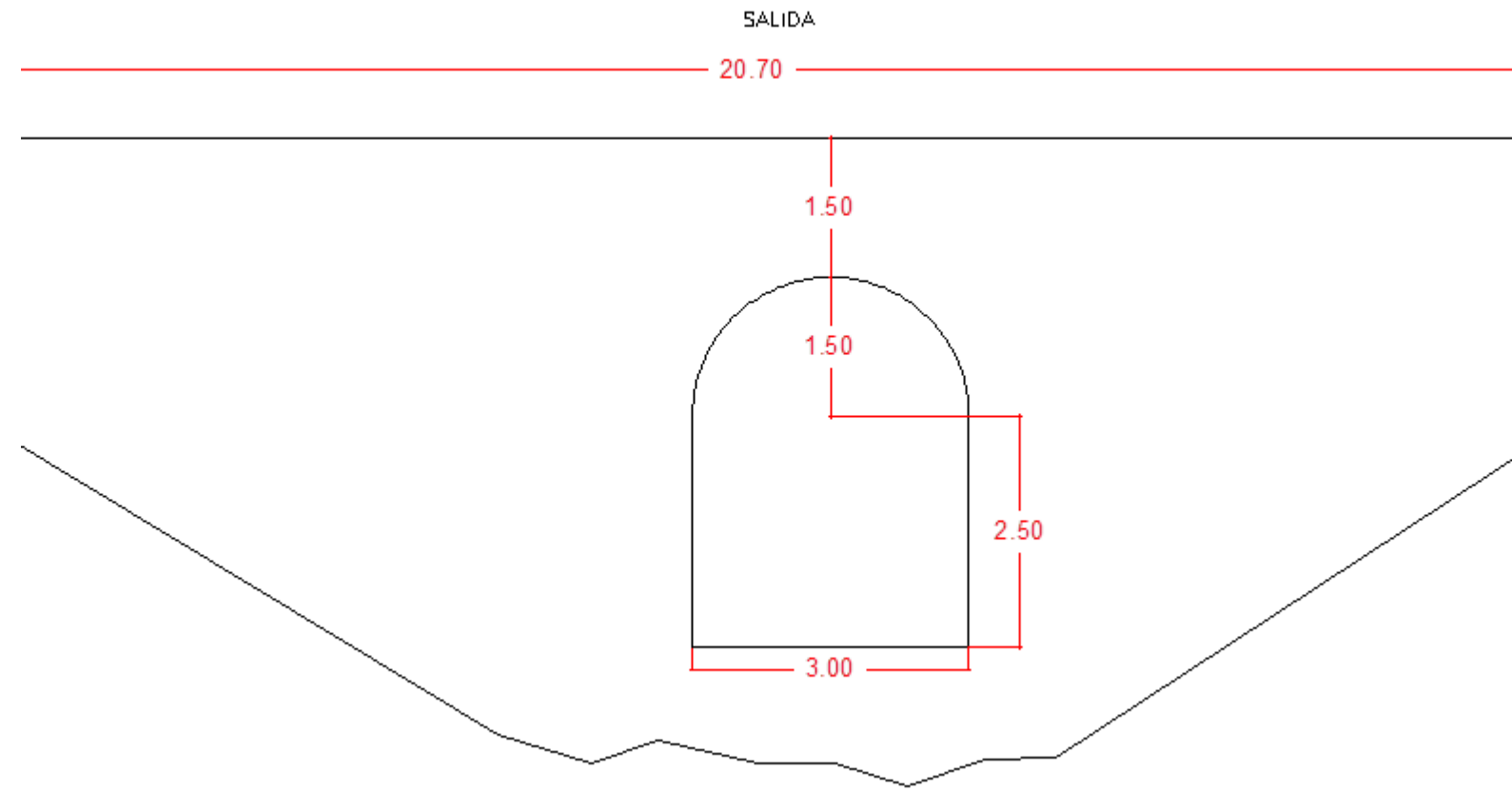


PUNTO	X	Y	Z
168	748019,575	4706279,943	653,000
167	748024,166	4706278,449	652,704
166	748029,459	4706268,397	652,350
165	748015,830	4706273,536	653,163

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
165	747908,780	4706063,225	653,165
166	747922,409	4706058,085	652,352
167	747917,116	4706068,137	652,706
168	747912,525	4706069,632	653,002







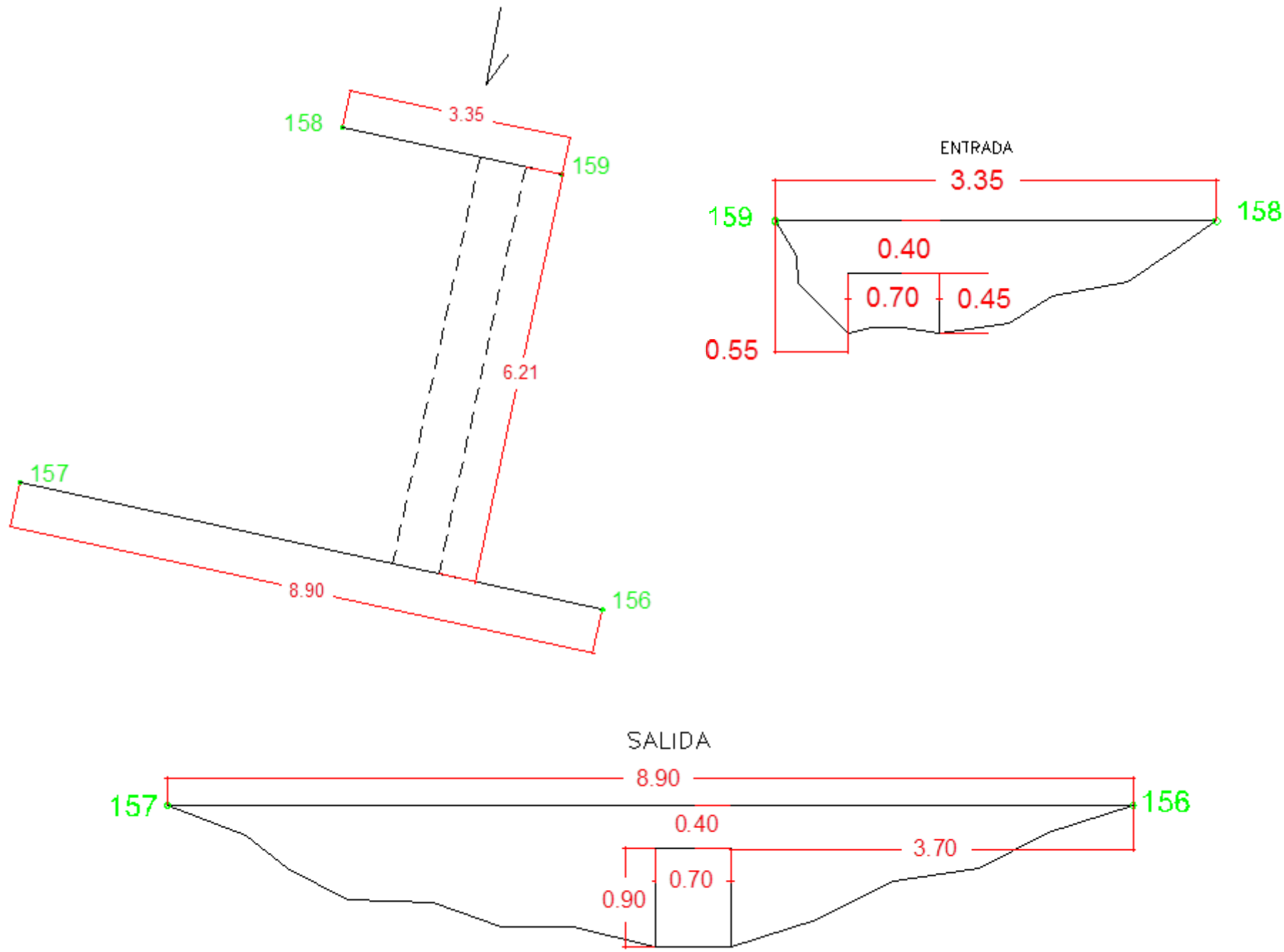
PUNTO	X	Y	Z
160	747879,718	4706278,640	662,070
161	747878,574	4706284,654	662,025
162	747898,740	4706287,153	660,700
163	747900,254	4706281,075	660,661

ETRS89 UTM HUSO 30			
PUNTO	X	Y	Z
160	747772,665	4706068,332	662,072
161	747771,521	4706074,346	662,027
162	747791,688	4706076,844	660,702
163	747793,202	4706070,766	660,663





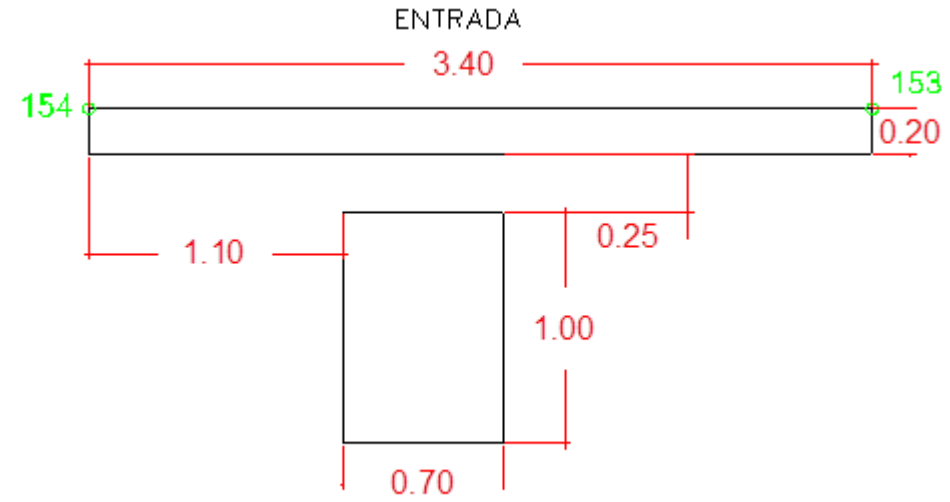
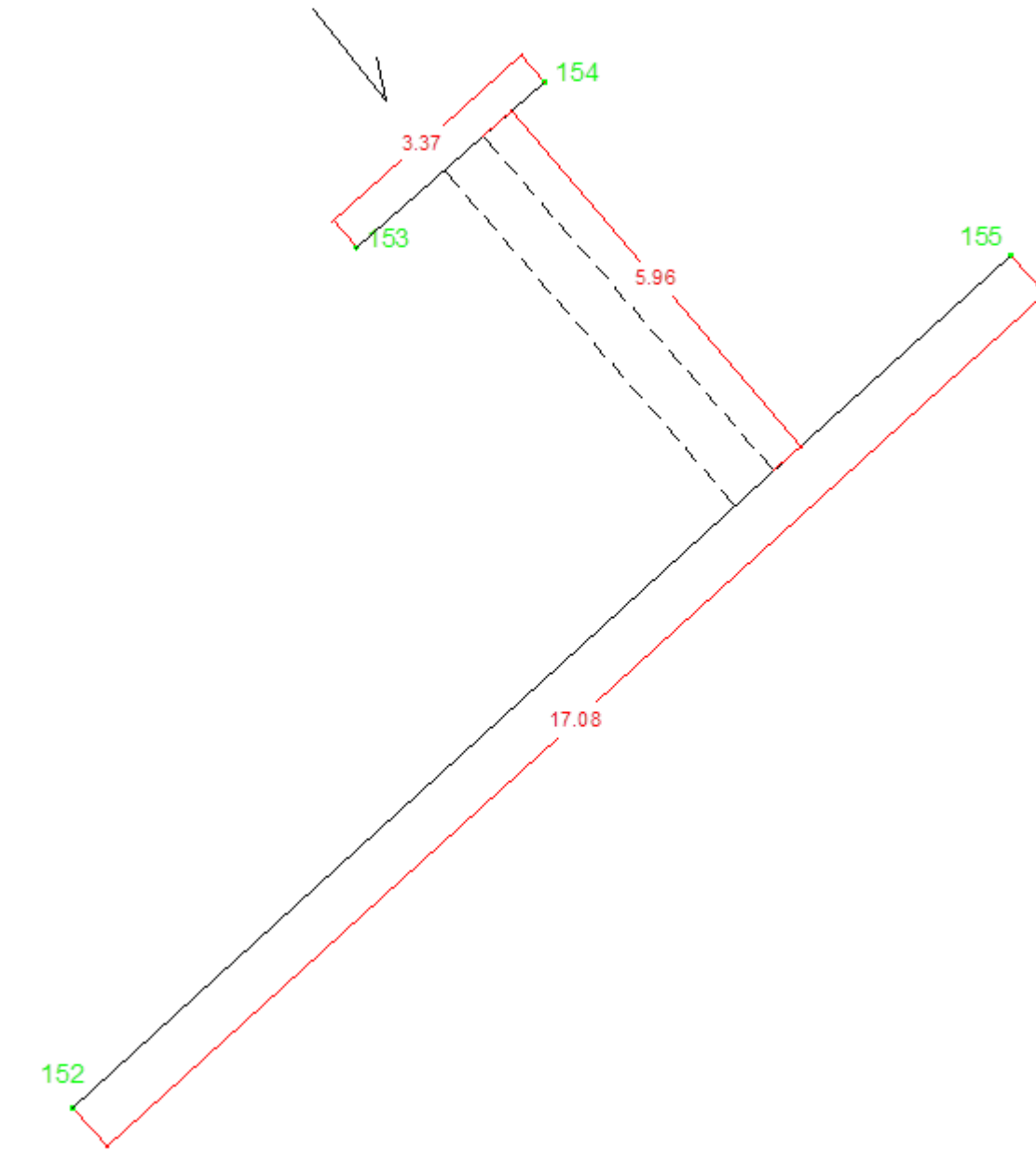
**PK 450+450**



PUNTO	X	Y	Z
156	747684,070	4706321,547	675,552
157	747675,374	4706323,449	676,126
158	747680,189	4706328,746	675,929
159	747683,466	4706328,043	675,764

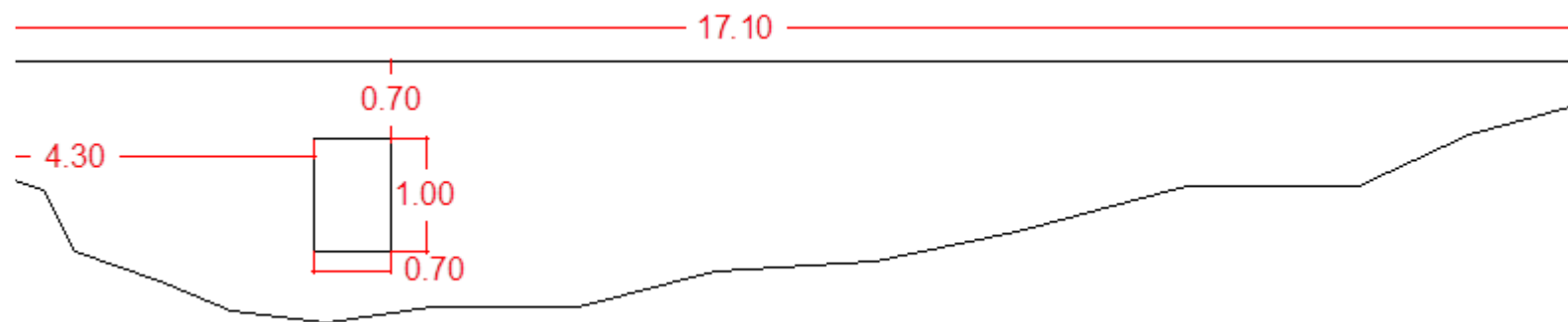
ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
156	747577,013	4706111,244	675,554
157	747568,317	4706113,146	676,129
158	747573,132	4706118,443	675,931
159	747576,410	4706117,740	675,766

**PK 450+800**

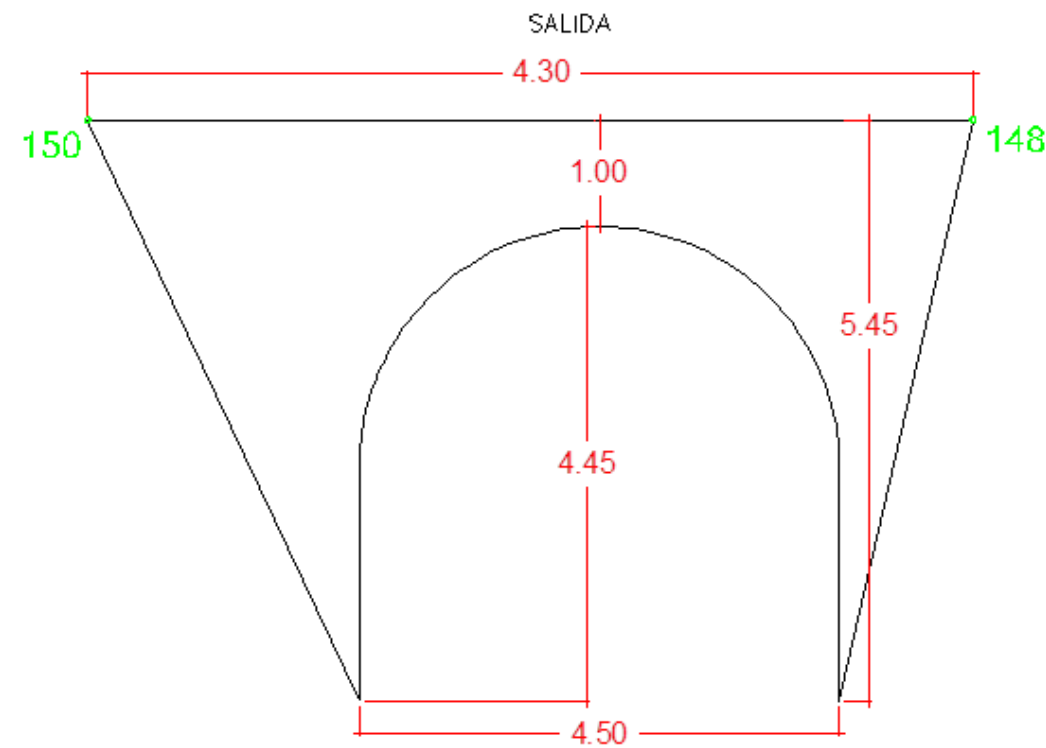
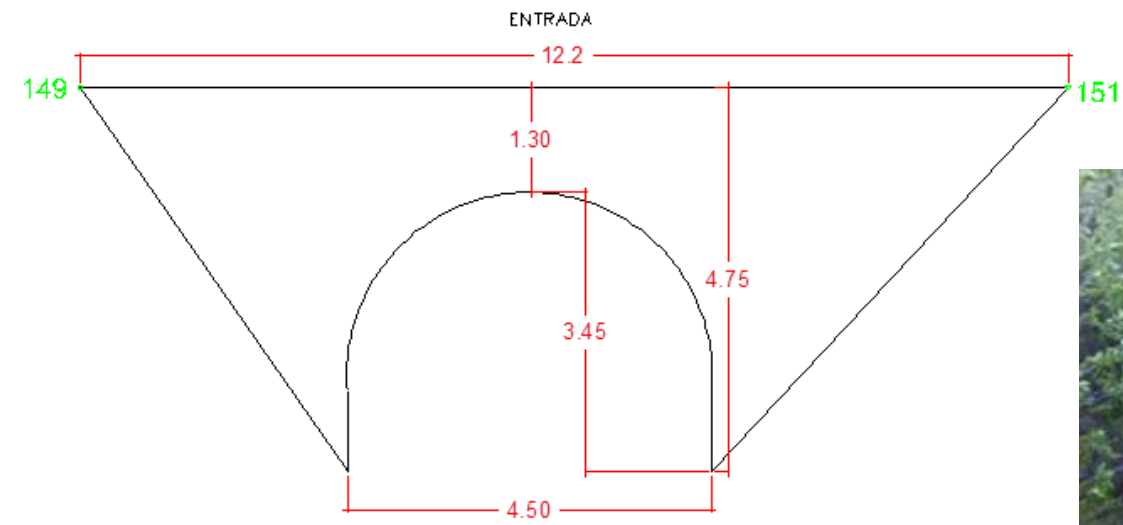
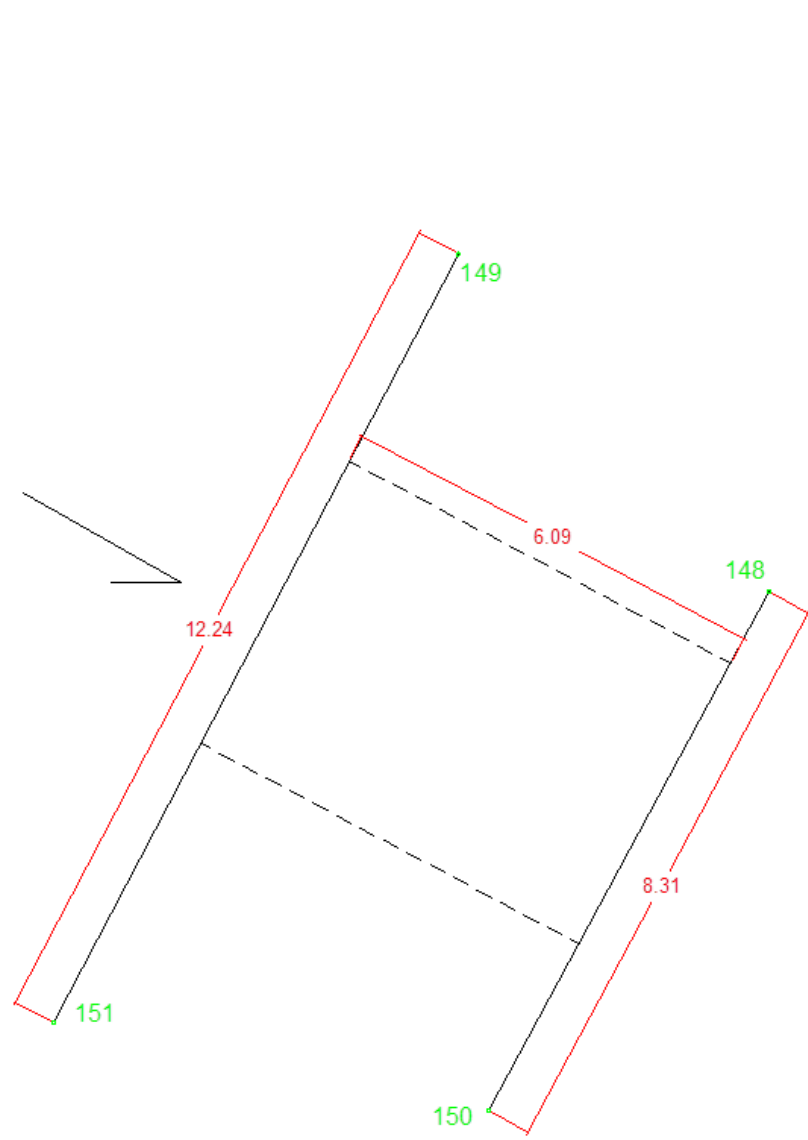


PUNTO	X	Y	Z
152	747378,874	4706339,825	693,397
153	747382,696	4706351,402	693,073
154	747385,238	4706353,618	692,975
155	747391,518	4706351,302	692,642

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
152	747271,811	4706129,529	693,400
153	747275,633	4706141,106	693,076
154	747278,175	4706143,322	692,978
155	747284,455	4706141,006	692,645



**PK 451+050**

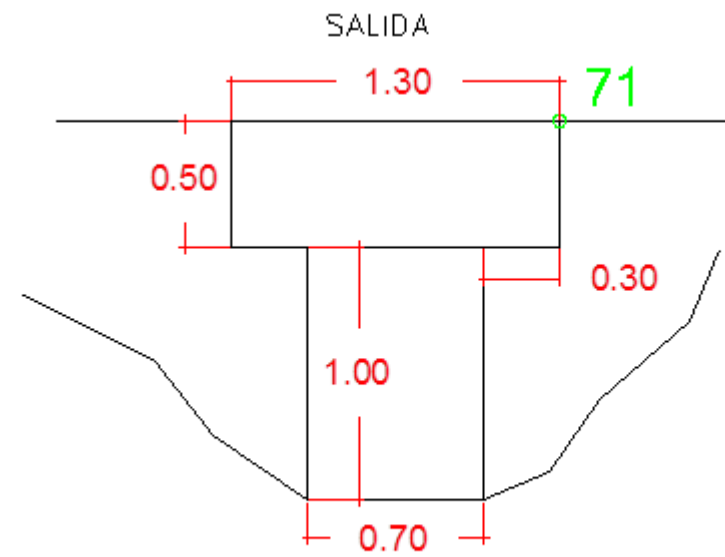
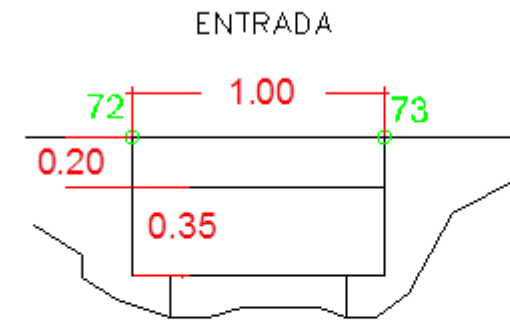
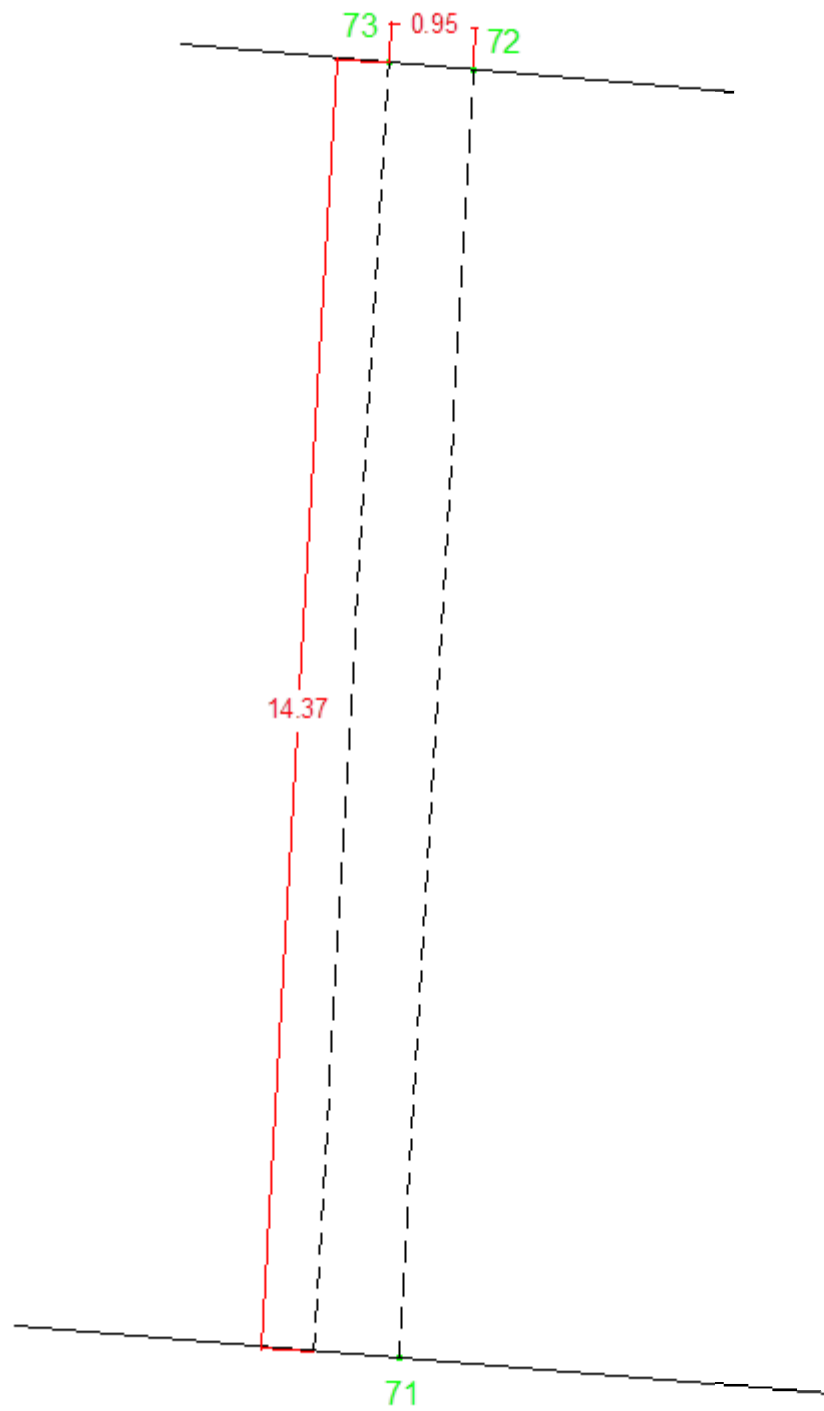


PUNTO	X	Y	Z
148	747181,741	4706296,957	699,909
149	747177,351	4706301,720	700,064
150	747177,786	4706289,649	700,397
151	747171,635	4706290,893	700,582

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
148	747074,672	4706086,665	699,913
149	747070,282	4706091,428	700,068
150	747070,717	4706079,356	700,401
151	747064,566	4706080,601	700,586



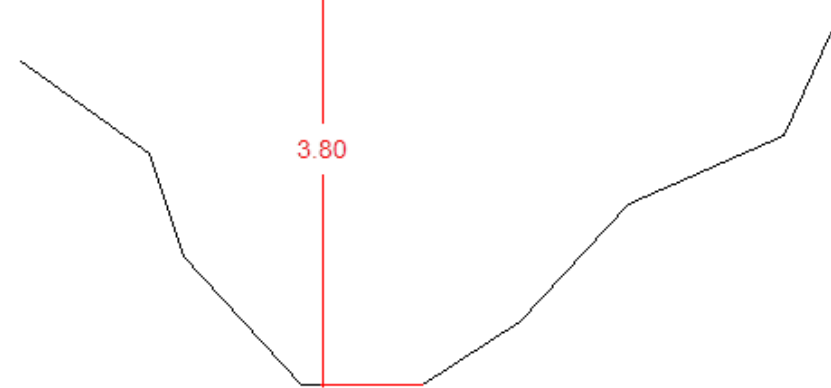
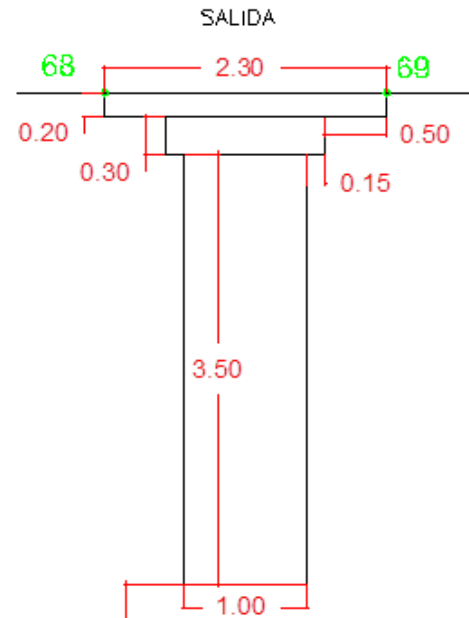
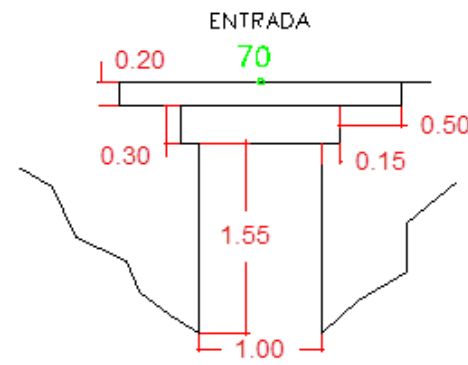
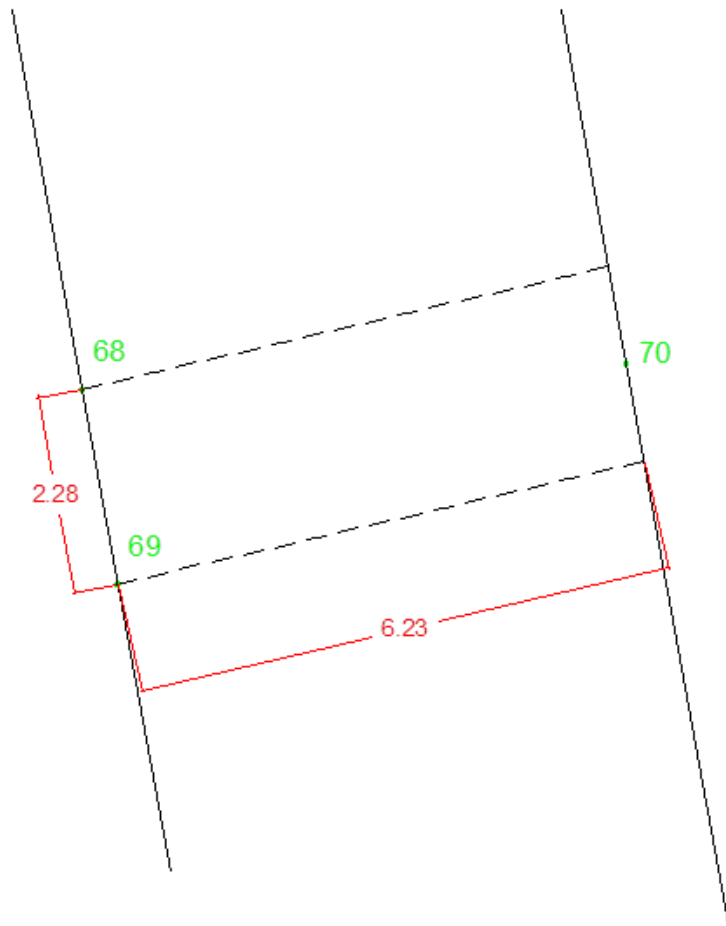
**PK 451+500**



PUNTO	X	Y	Z
71	746918,473	4706227,499	715,281
72	746917,337	4706241,884	715,123
73	746918,291	4706241,871	715,313

ETRS89 UTM HUSO 30			
PUNTO	X	Y	Z
71	746811,397	4706017,211	715,285
72	746811,215	4706031,583	715,317
73	746810,261	4706031,596	715,127

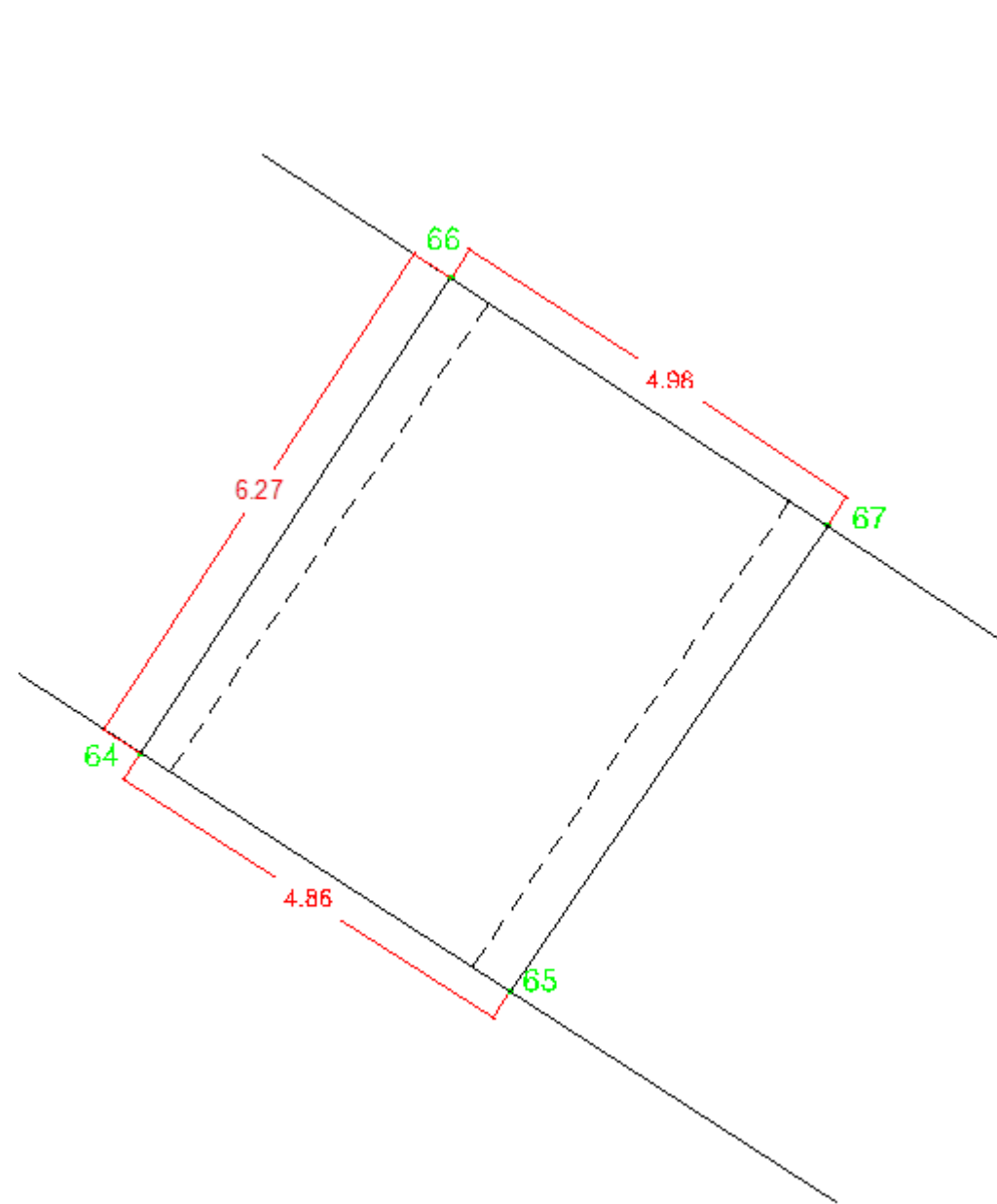
**PK 451+750**



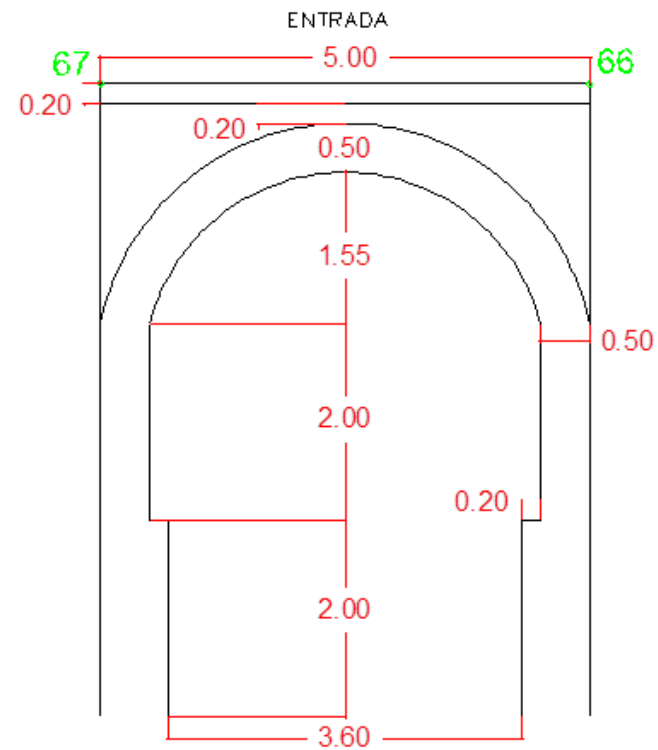
PUNTO	X	Y	Z
68	746833,129	4706438,788	699,888
69	746833,698	4706436,576	700,075
70	746839,371	4706439,521	699,978

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
68	746726,055	4706228,507	699,891
69	746726,624	4706226,294	700,078
70	746732,297	4706229,239	699,981



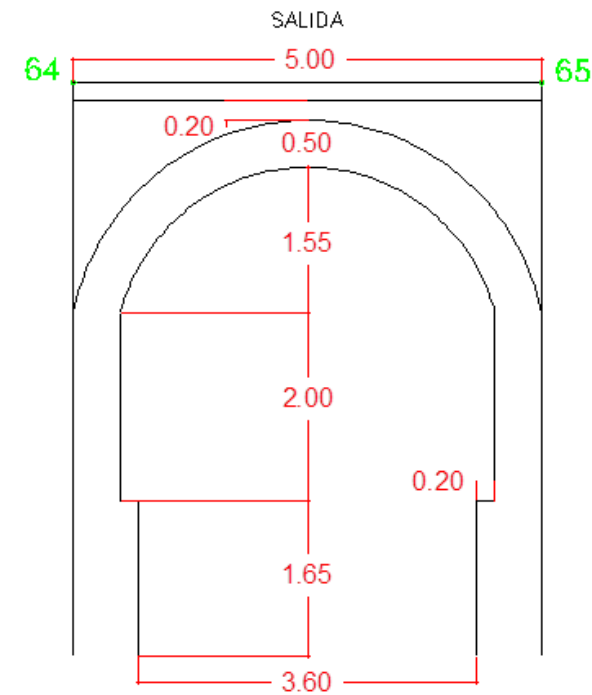


P.K. 451+800

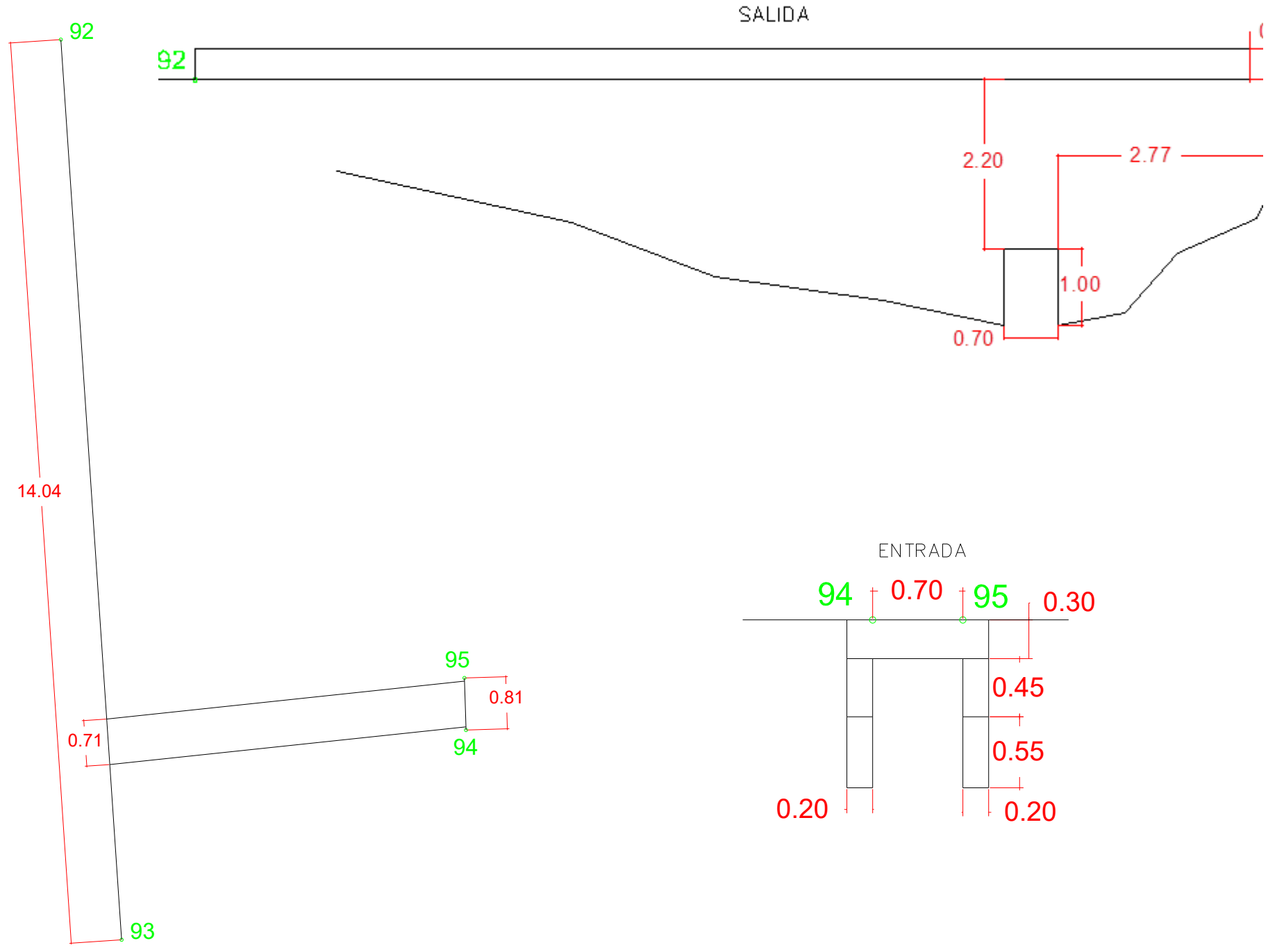


PUNTO	X	Y	Z
64	746808,209	4706495,641	695,732
65	746812,466	4706493,301	696,090
66	746811,260	4706501,118	695,733
67	746815,603	4706498,684	696,059

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
64	746701,136	4706285,361	695,735
65	746705,393	4706283,021	696,093
66	746704,187	4706290,838	695,736
67	746708,530	4706288,404	696,062



P.K. 451+950



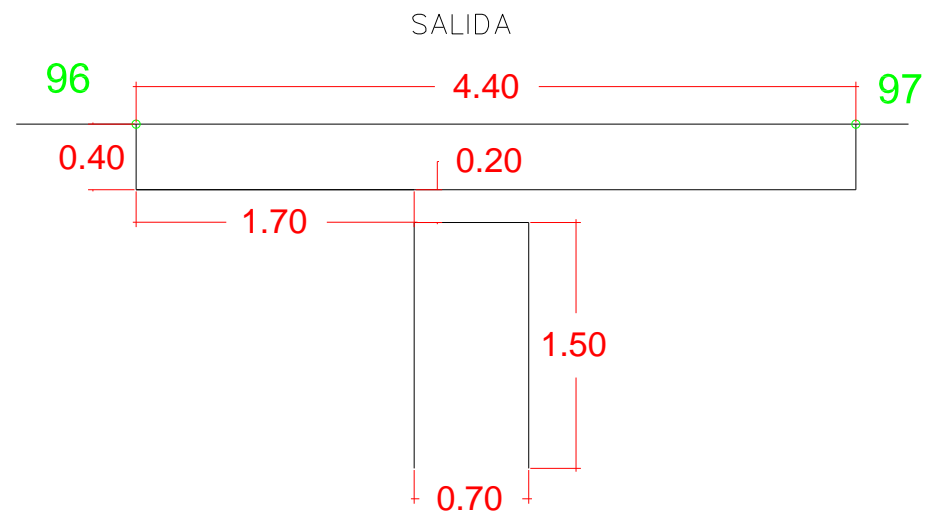
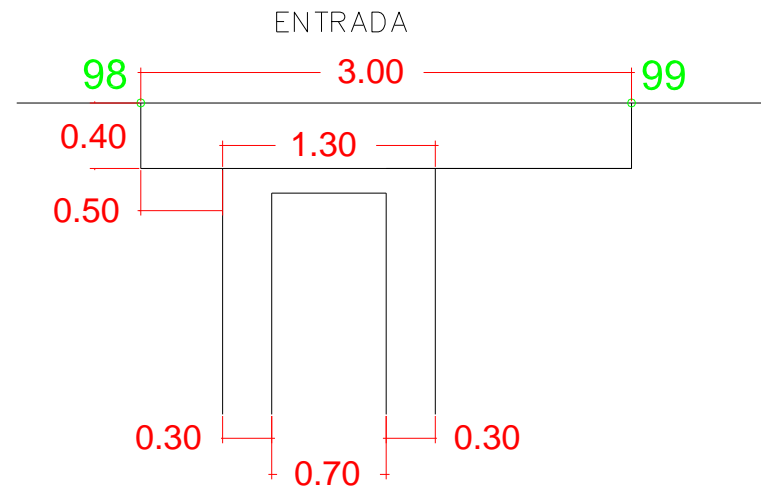
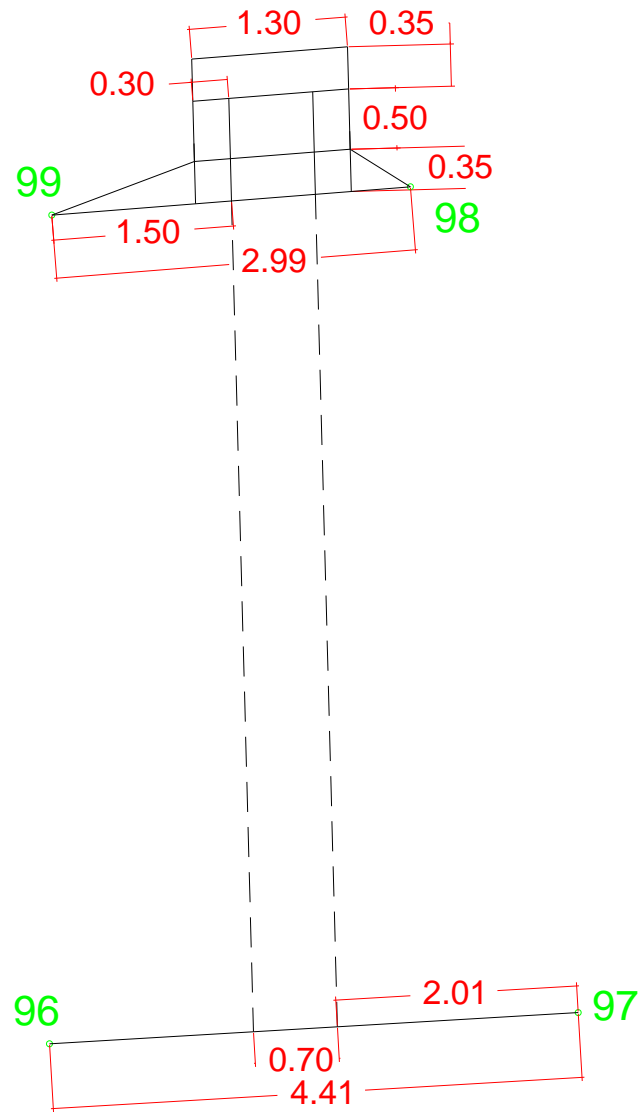
PUNTO	X	Y	Z
92	746698,481	4706538,406	674,928
93	746699,429	4706524,395	674,863
94	746704,799	4706527,659	674,549
95	746704,774	4706528,470	674,545

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
92	746591,406	4706328,130	674,930
93	746592,354	4706314,118	674,865
94	746597,724	4706317,382	674,551
95	746597,699	4706318,193	674,547





**PK 452+500**



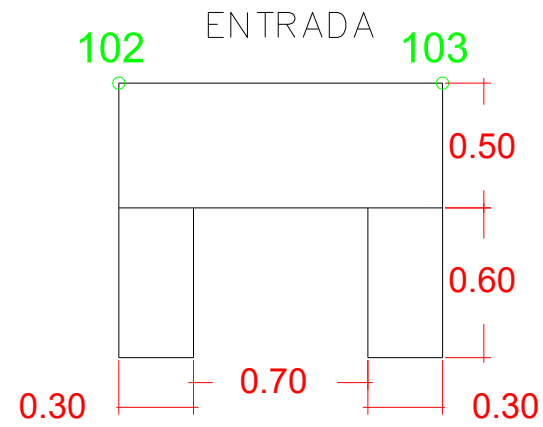
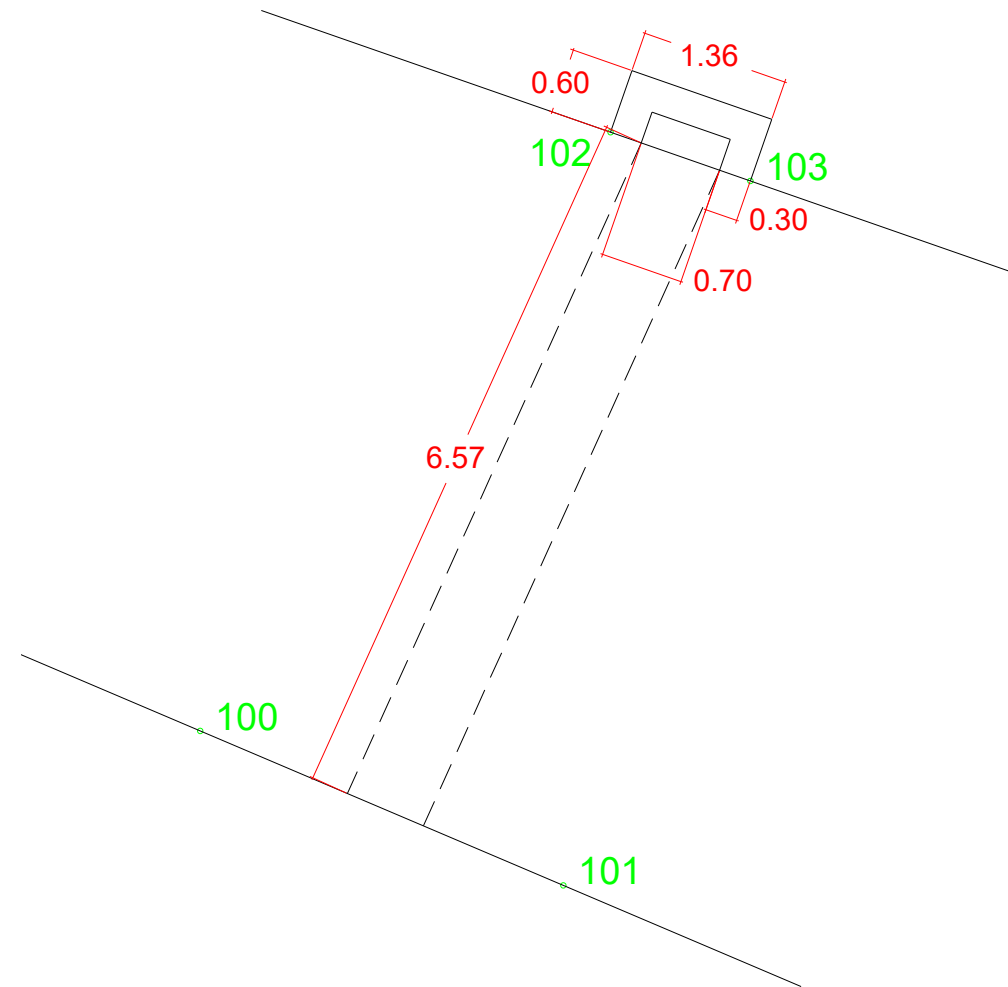
PUNTO	X	Y	Z
96	746363,585	4706865,624	683,162
97	746367,984	4706865,883	683,178
98	746366,588	4706872,740	683,215
99	746363,604	4706872,505	683,161

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
96	746256,510	4706655,363	683,163
97	746260,909	4706655,622	683,179
98	746259,513	4706662,479	683,216
99	746256,529	4706662,244	683,162



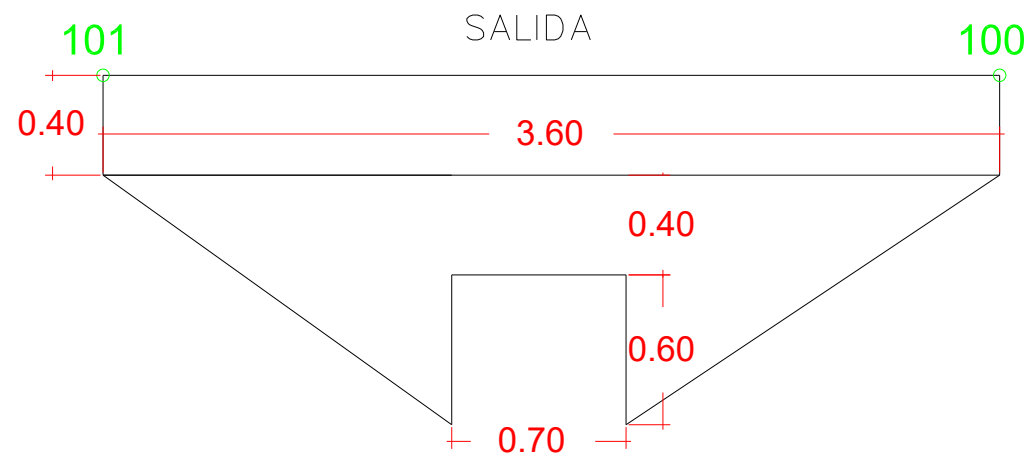


**PK 453+100**



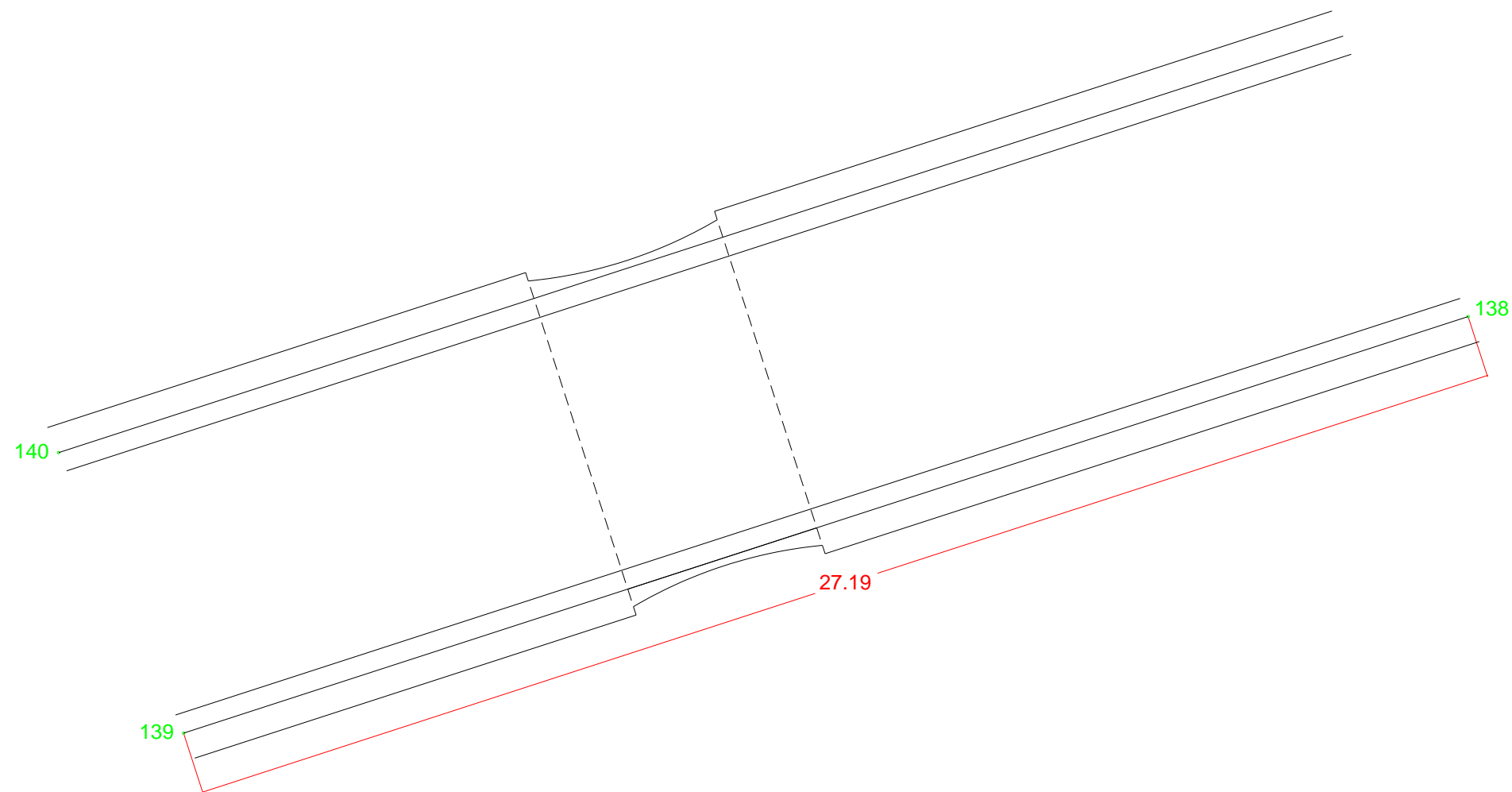
PUNTO	X	Y	Z
100	745720,804	4707030,850	672,948
101	745724,149	4707029,430	673,081
102	745724,584	4707036,354	672,917
103	745725,872	4707035,906	672,871

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
100	745613,718	4706820,607	672,949
101	745617,063	4706819,186	673,082
102	745617,498	4706826,111	672,918
103	745618,786	4706825,663	672,872





**PK 453+250**



ENTRADA

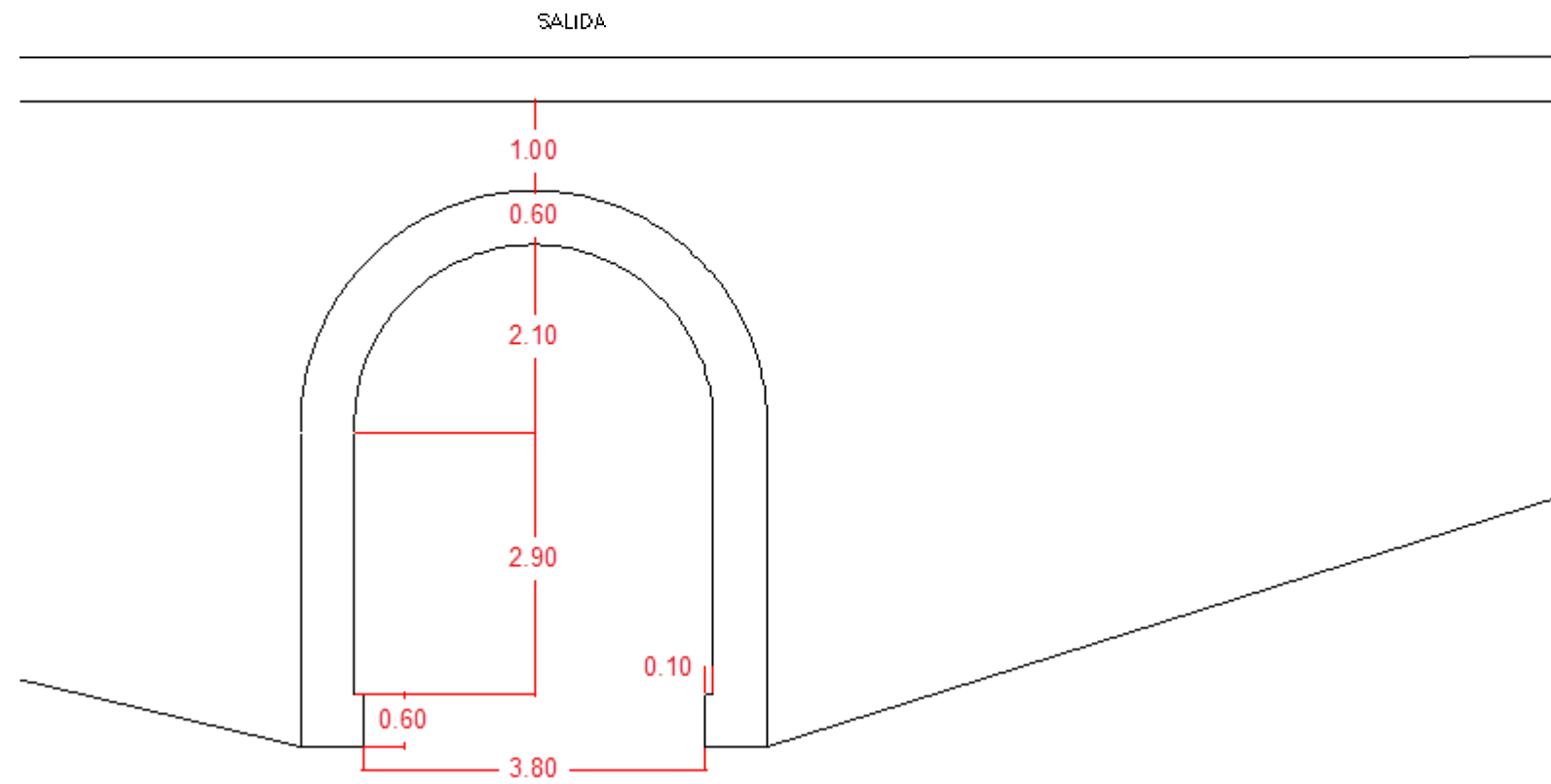
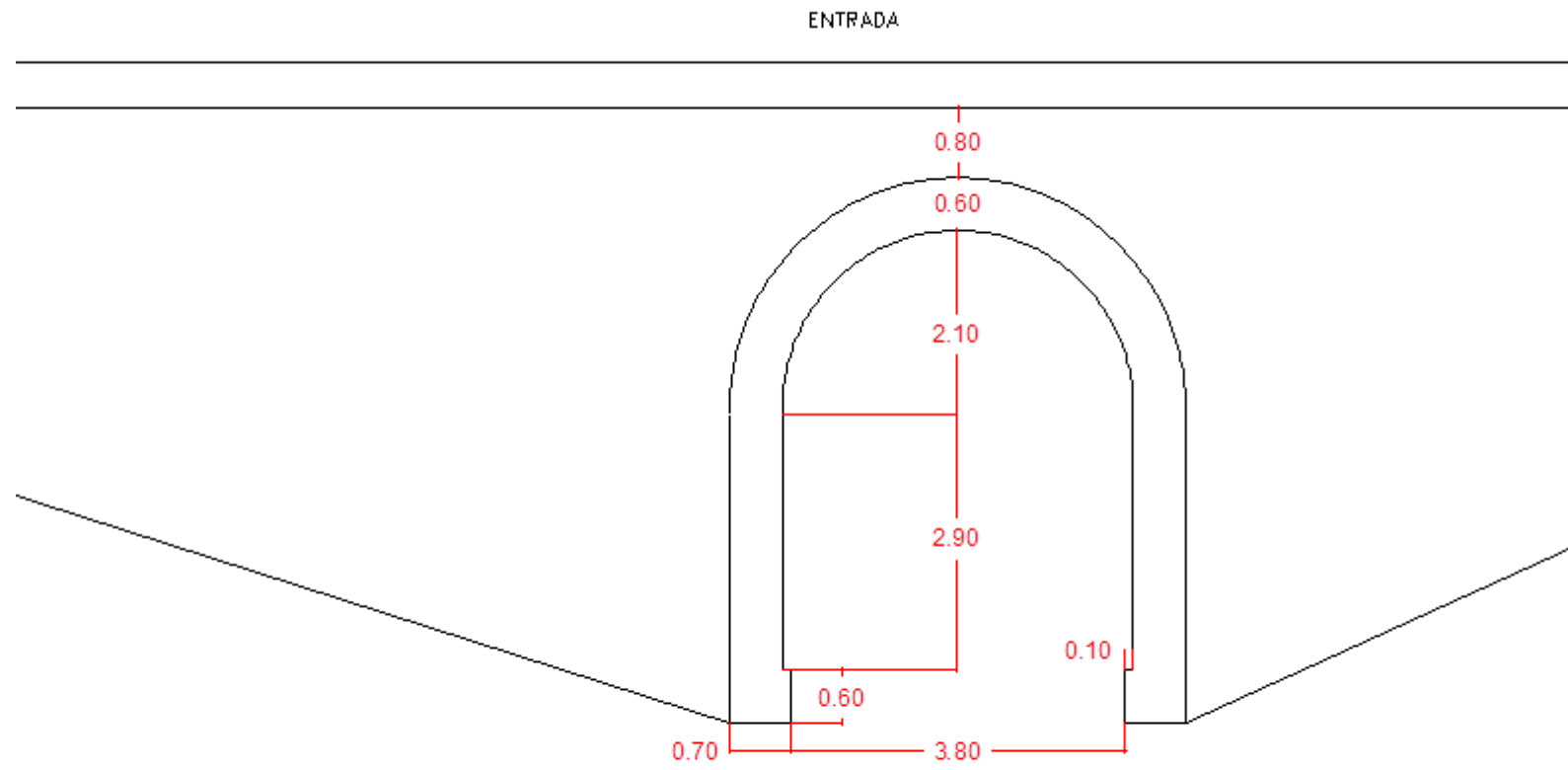
SALIDA



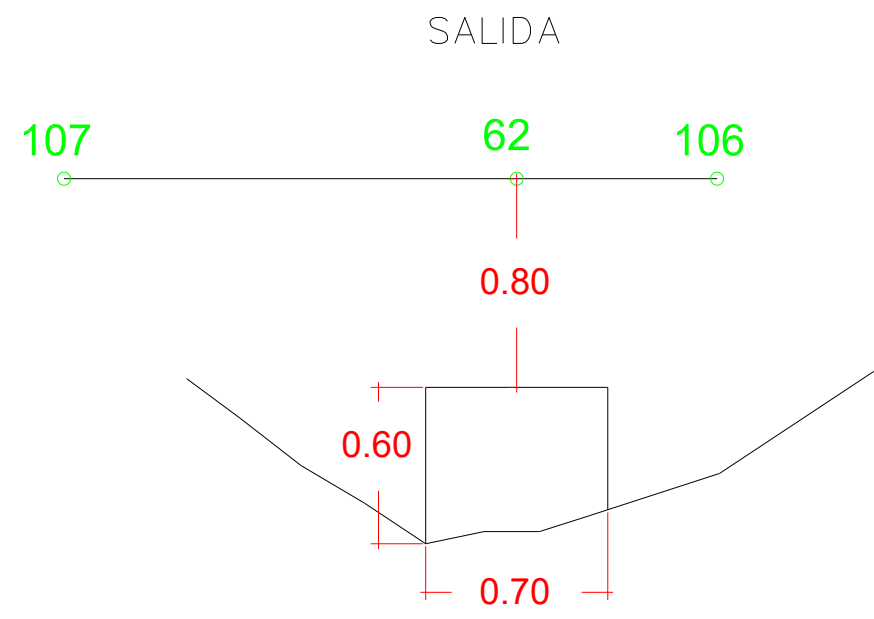
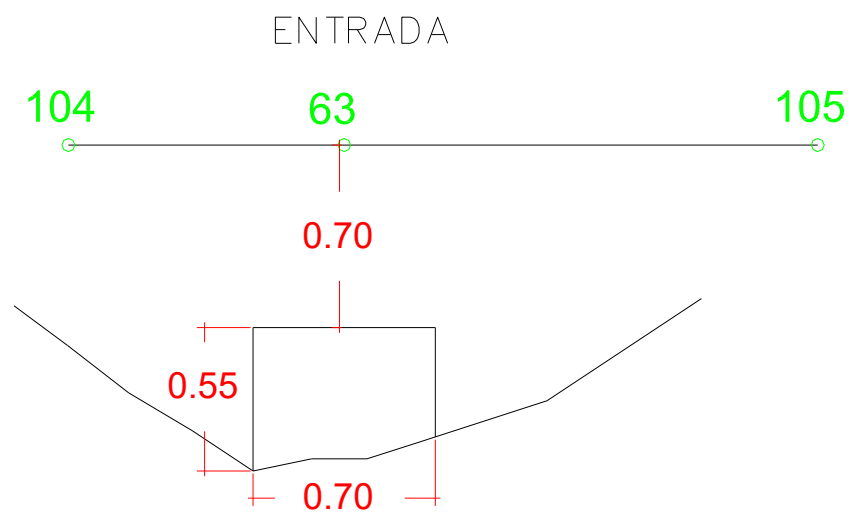
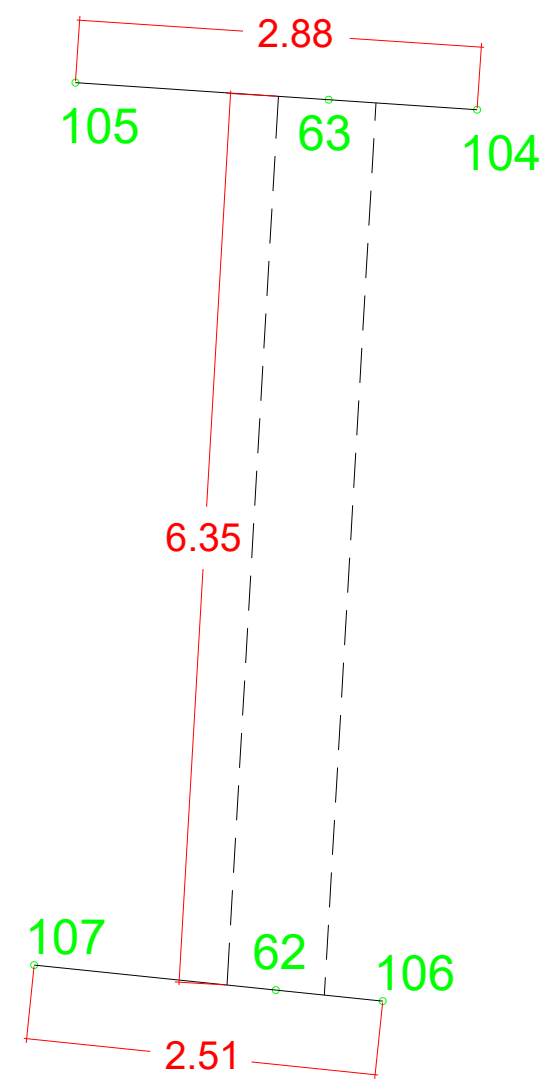
PUNTO	X	Y	Z
138	745625,382	4707094,331	672,846
139	745599,516	4707085,962	673,066
140	745596,998	4707091,598	673,117

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
138	745518,295	4706884,091	672,847
139	745492,428	4706875,723	673,067
140	745489,910	4706881,359	673,118





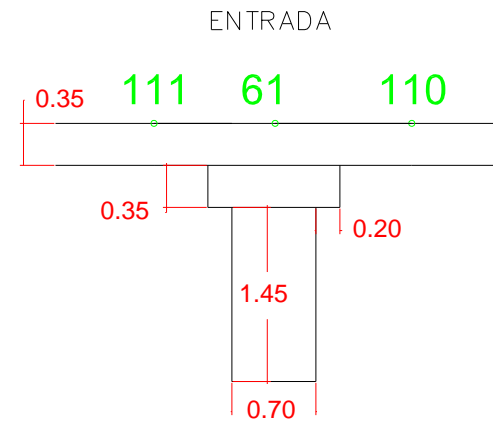
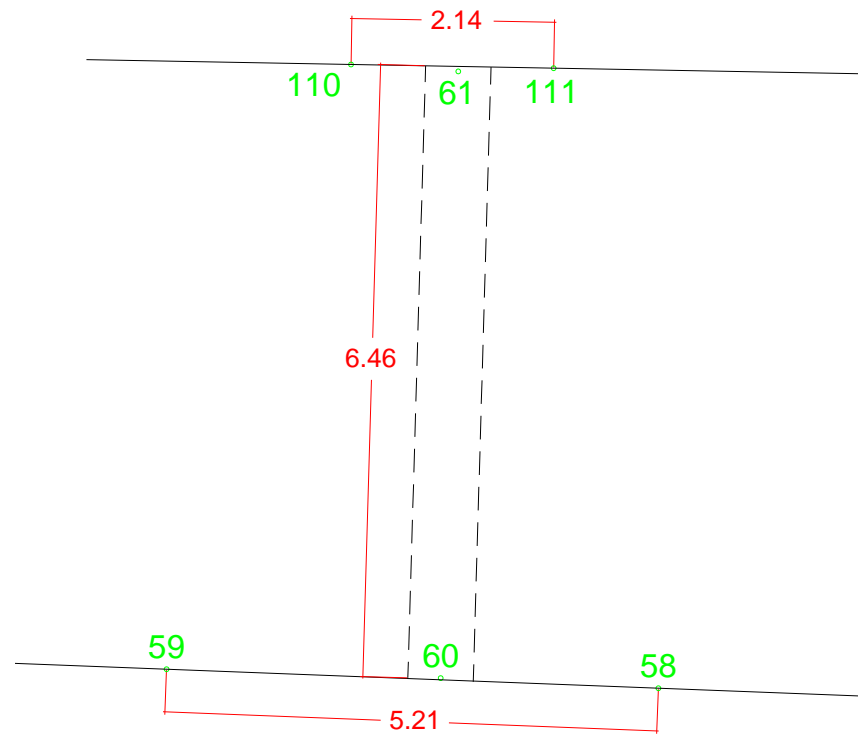
**PK 453+350**



PUNTO	X	Y	Z
62	745510,228	4707047,684	674,078
63	745510,576	4707053,684	674,011
104	745511,652	4707053,681	673,748
105	745508,779	4707053,874	673,656
106	745510,977	4707047,318	673,927
107	745508,484	4707047,575	673,759

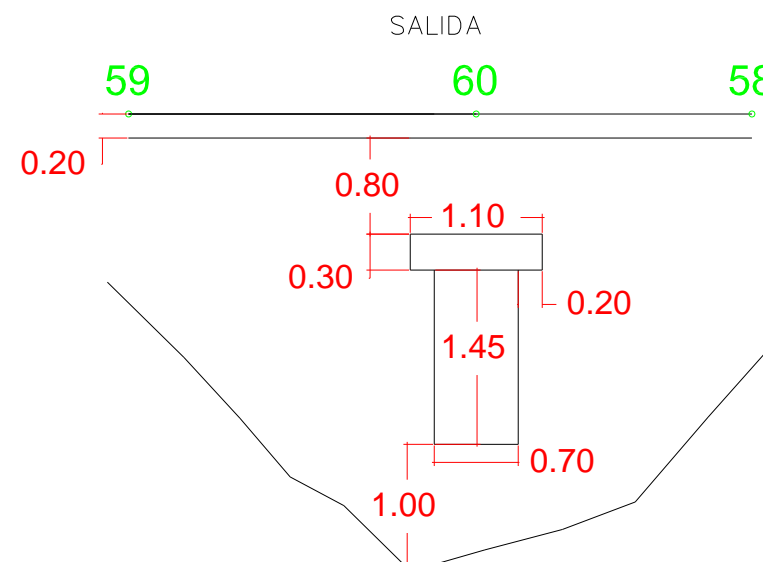
ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
104	745404,561	4706843,443	673,749
105	745401,688	4706843,636	673,657
106	745403,886	4706837,080	673,928
107	745401,393	4706837,337	673,760
62	745403,137	4706837,446	674,079
63	745403,485	4706843,446	674,012

**PK 453+450**



PUNTO	X	Y	Z
58	745408,402	4707050,760	675,781
59	745403,200	4707050,961	675,887
60	745406,099	4707050,867	675,806
61	745406,285	4707057,270	676,042
110	745405,151	4707057,343	676,021
111	745407,294	4707057,304	675,822

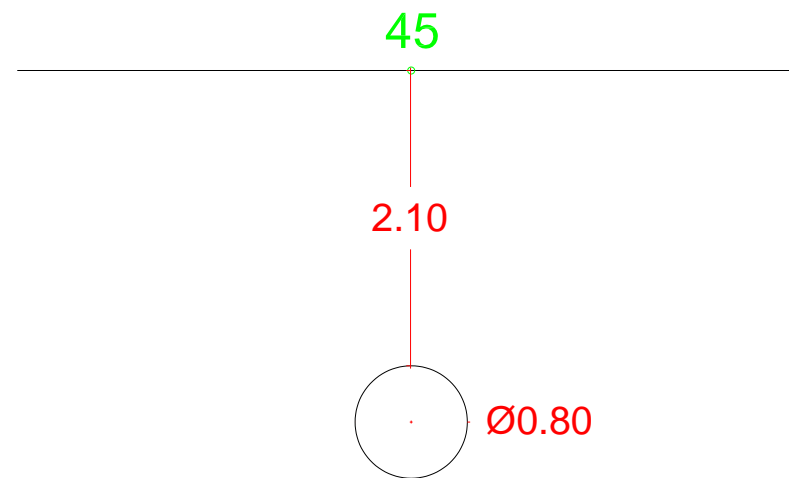
ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
110	745298,058	4706847,107	676,022
111	745300,201	4706847,068	675,823
58	745301,309	4706840,524	675,782
59	745296,107	4706840,725	675,888
60	745299,006	4706840,631	675,807
61	745299,192	4706847,034	676,043





**PK 453+600**

ENTRADA



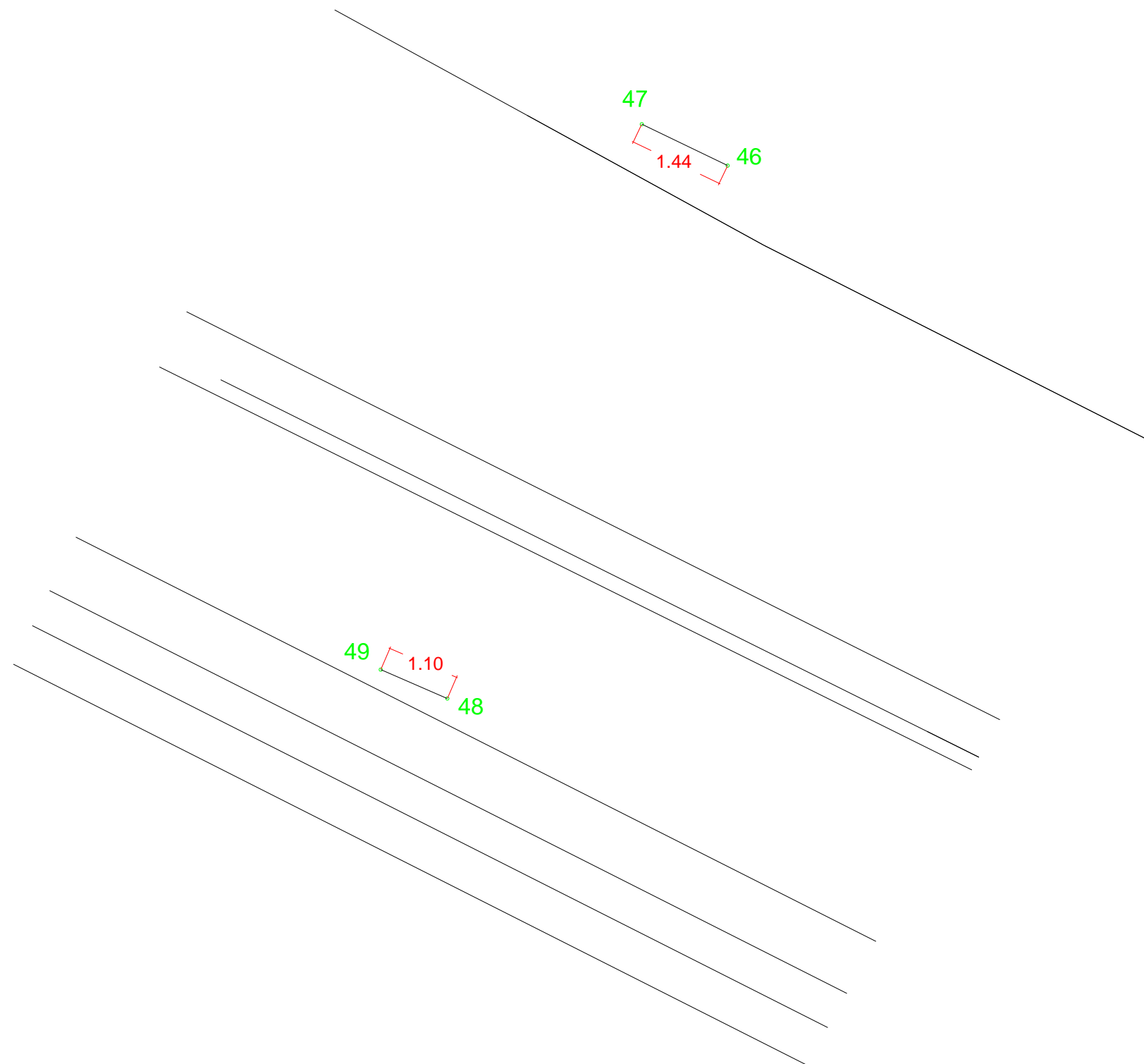
SALIDA NO ENCONTRADA



PUNTO	X	Y	Z
45	745287,608	4707082,539	675,343

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
45	745180,513	4706872,306	675,344

**PK 453+675**

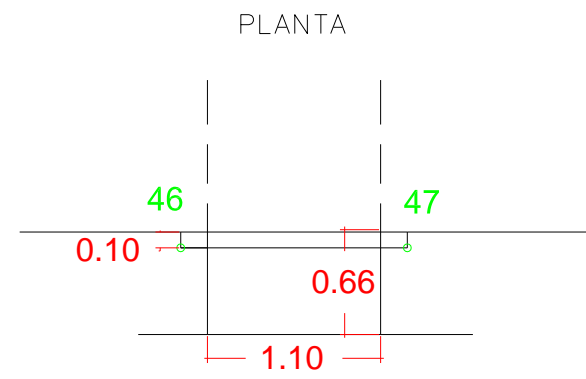
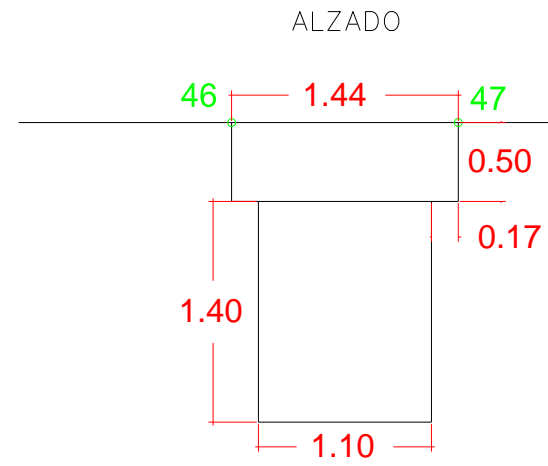


PUNTO	X	Y	Z
46	745209,552	4707108,283	674,599
47	745208,253	4707108,908	674,534
48	745205,310	4707100,237	674,588
49	745204,302	4707100,673	674,586

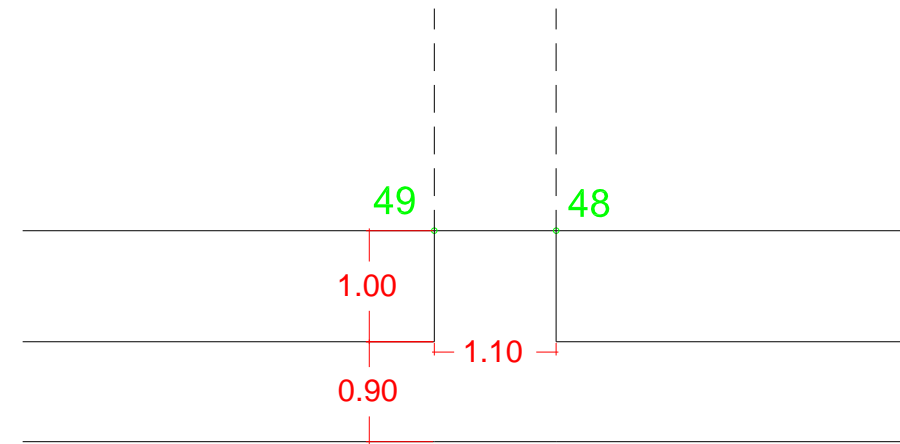
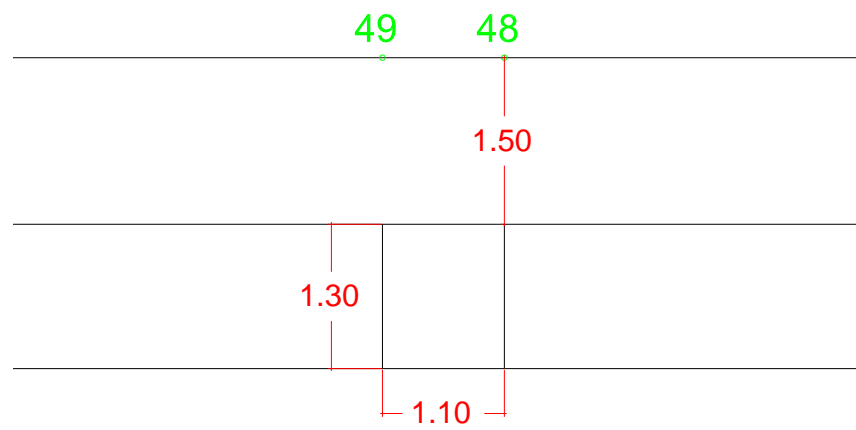
ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
46	745102,455	4706898,053	674,600
47	745101,156	4706898,678	674,535
48	745098,213	4706890,007	674,589
49	745097,205	4706890,443	674,587



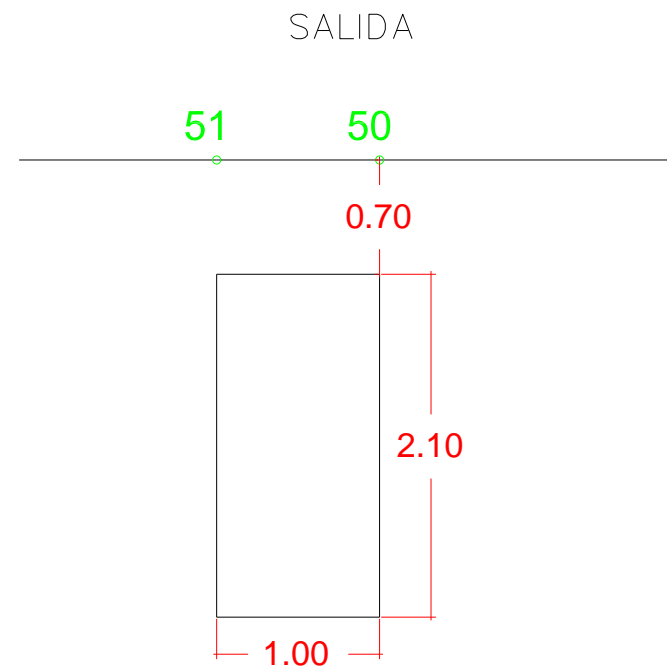
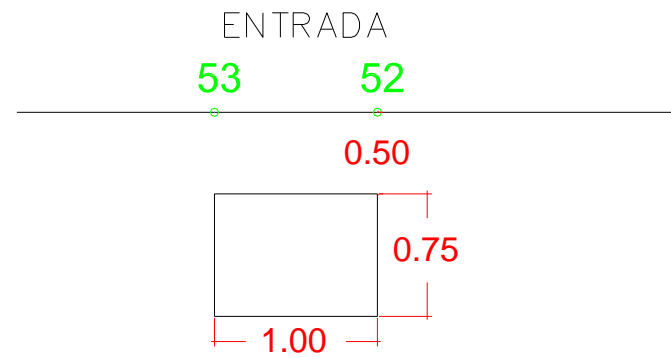
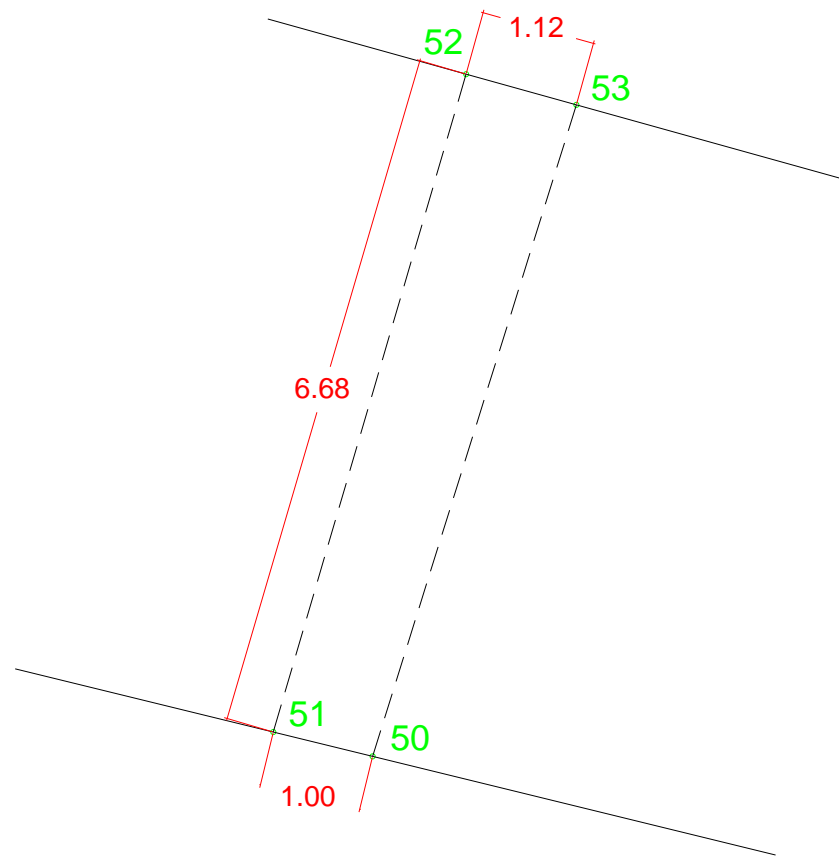
ENTRADA



SALIDA



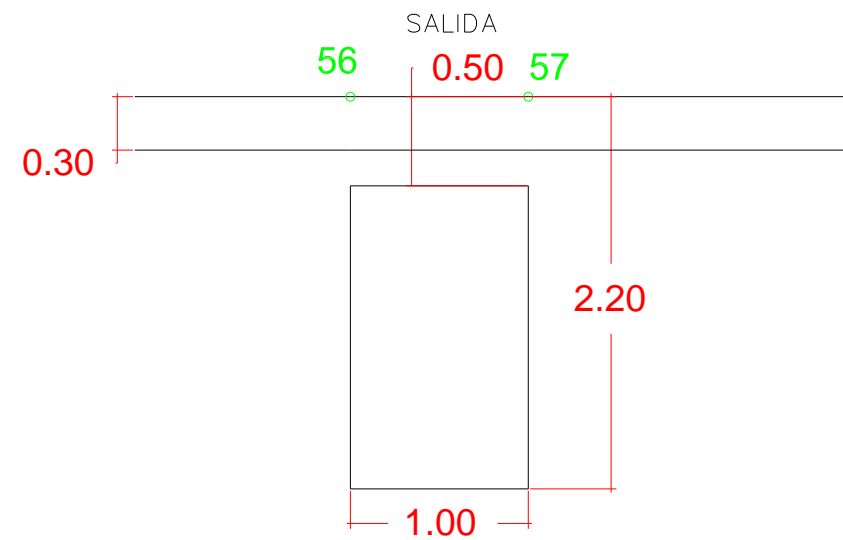
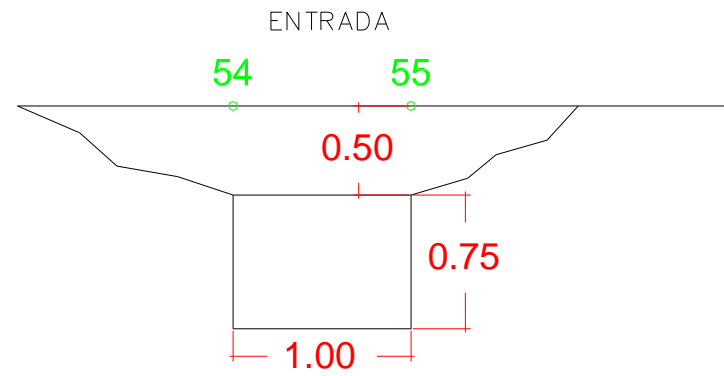
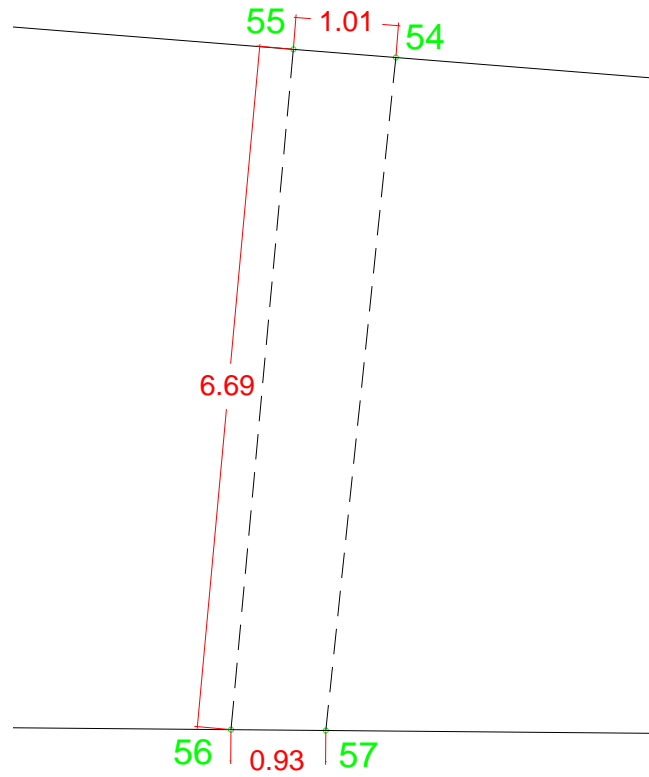
**PK 453+740**



PUNTO	X	Y	Z
50	745142,426	4707129,282	673,831
51	745141,456	4707129,519	673,824
52	745143,339	4707135,930	673,944
53	745144,416	4707135,631	673,943

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
50	745035,328	4706919,054	673,832
51	745034,358	4706919,291	673,825
52	745036,241	4706925,702	673,945
53	745037,319	4706925,403	673,944

**PK 453+750**

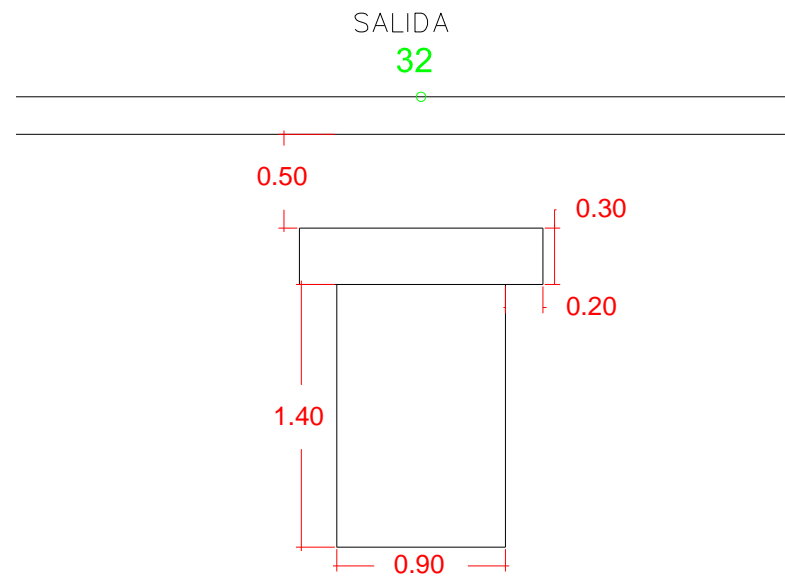
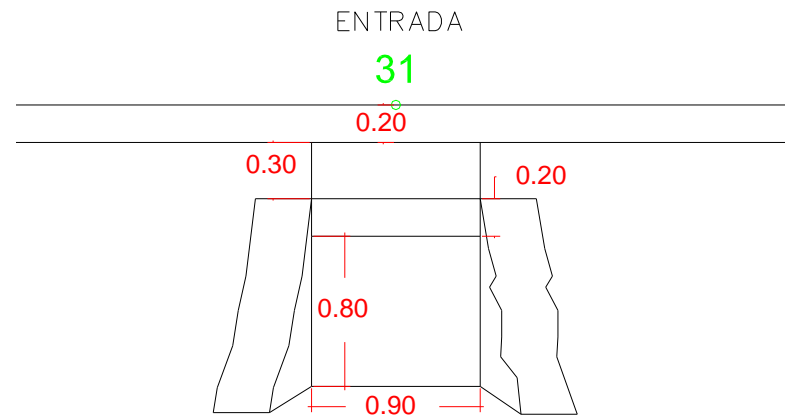
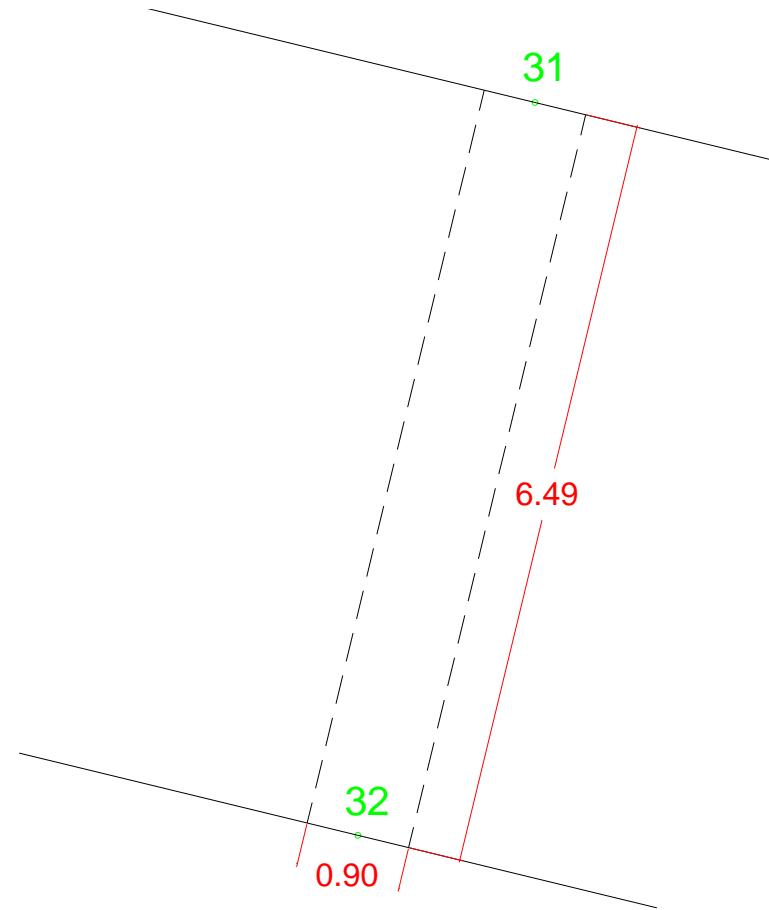


PUNTO	X	Y	Z
54	745121,946	4707139,810	673,623
55	745120,940	4707139,890	673,636
56	745120,328	4707133,227	673,533
57	745121,259	4707133,219	673,547

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
54	745014,848	4706929,582	673,624
55	745013,842	4706929,662	673,637
56	745013,230	4706922,999	673,534
57	745014,161	4706922,991	673,548



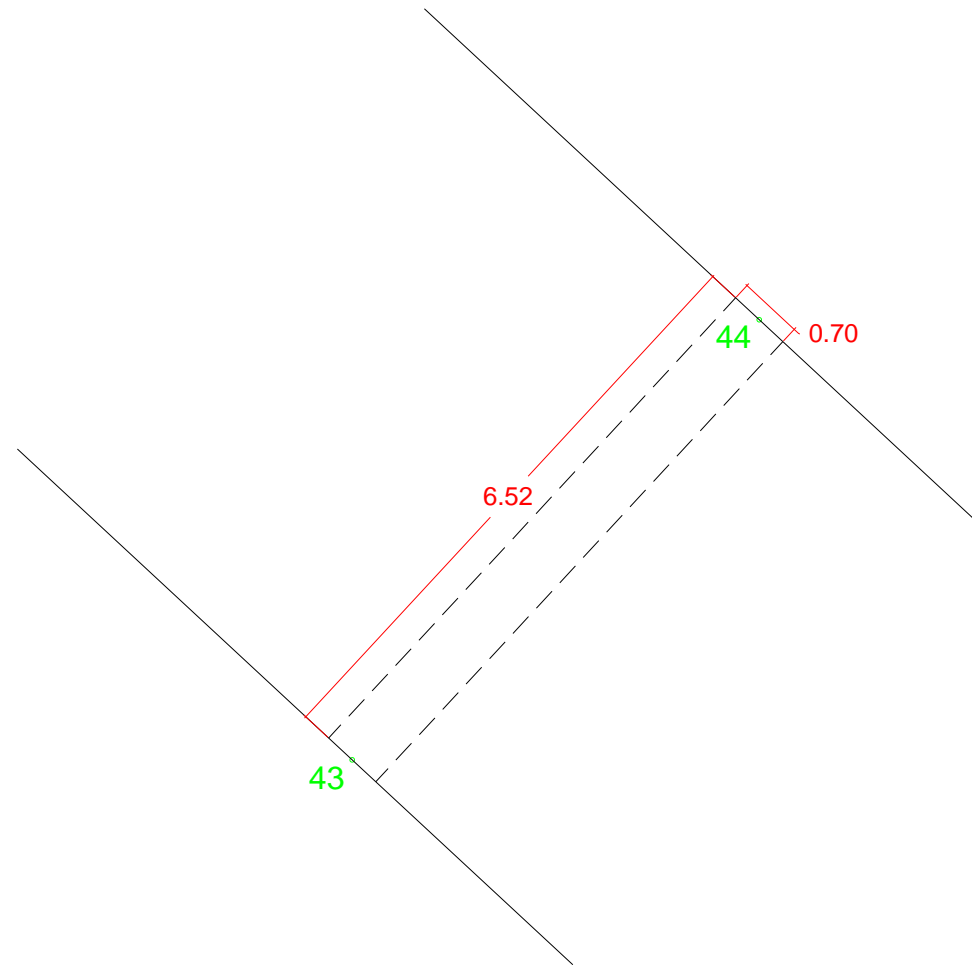
**PK 453+800**



PUNTO	X	Y	Z
31	745058,106	4707150,062	672,552
32	745056,579	4707143,756	672,623

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
31	744951,007	4706939,836	672,553
32	744949,480	4706933,530	672,624

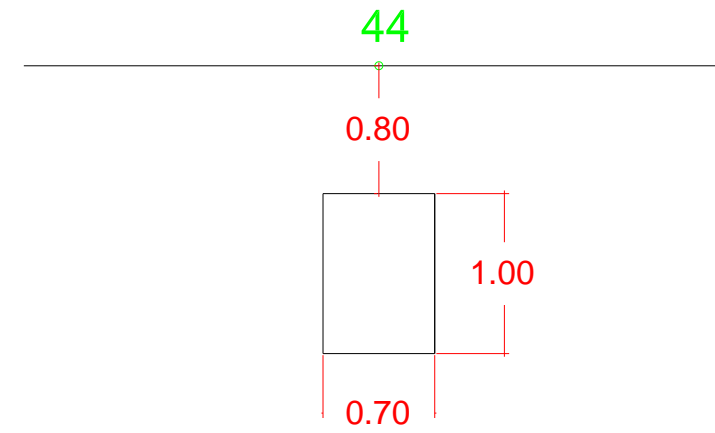
**PK 453+950**



PUNTO	X	Y	Z
44	745002,857	4707194,594	672,770
43	744998,427	4707189,813	672,764

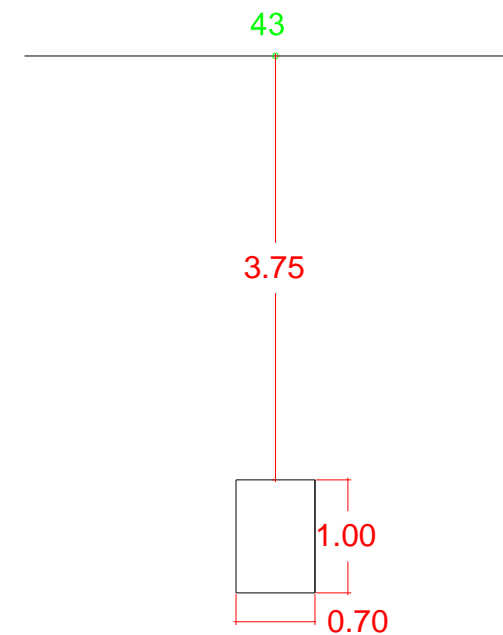
ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
43	744891,327	4706979,589	672,765
44	744895,758	4706984,370	672,771

ENTRADA



AGULERO SIN FORMA, TAPADO POR DERRUMBE.

SALIDA

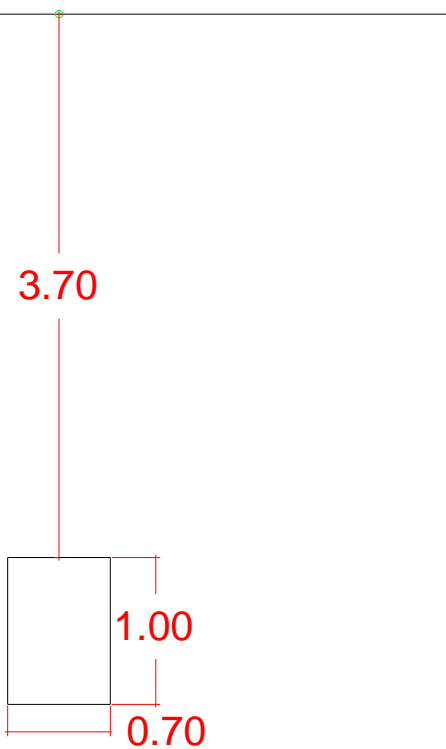




**PK 454+000**

SALIDA

74



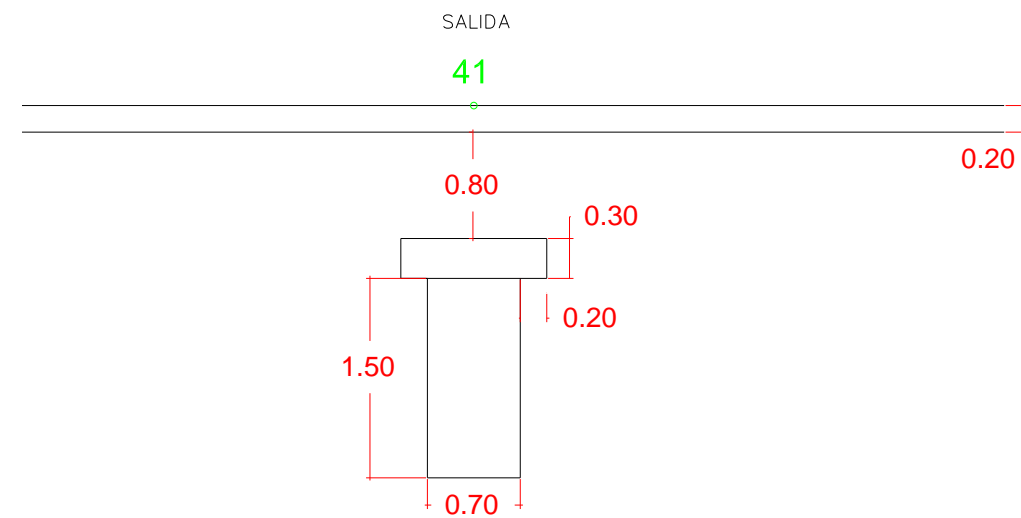
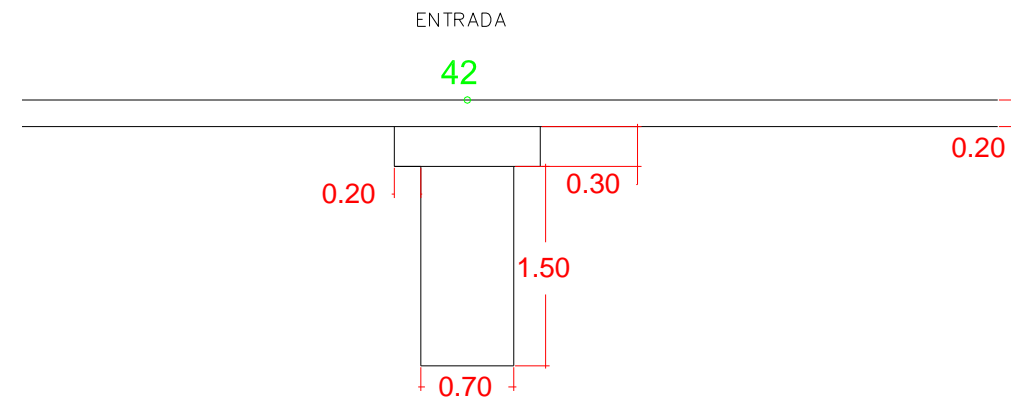
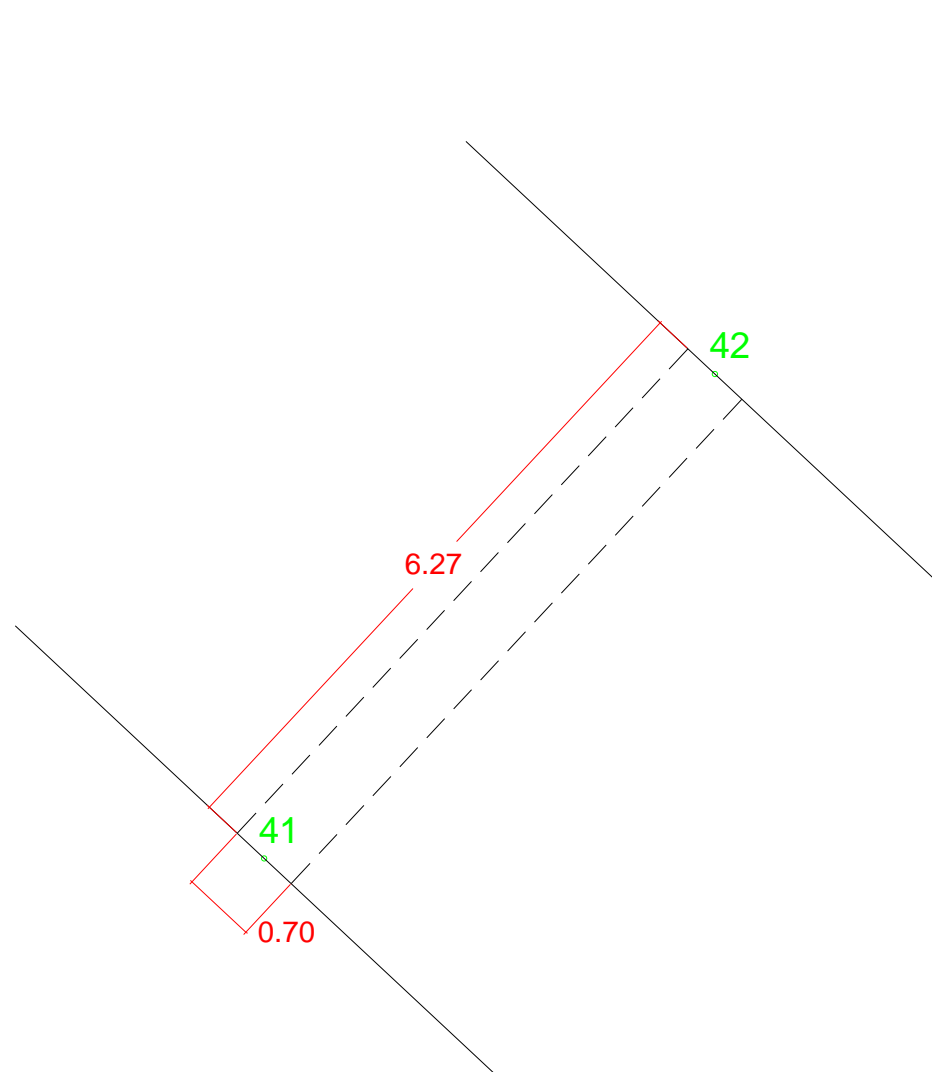
ENTRADA TAPADA POR DESPRENDIMIENTO



PUNTO	X	Y	Z
74	744949,551	4707242,225	675,375

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
74	744842,451	4707032,003	675,376

**PK 454+060**

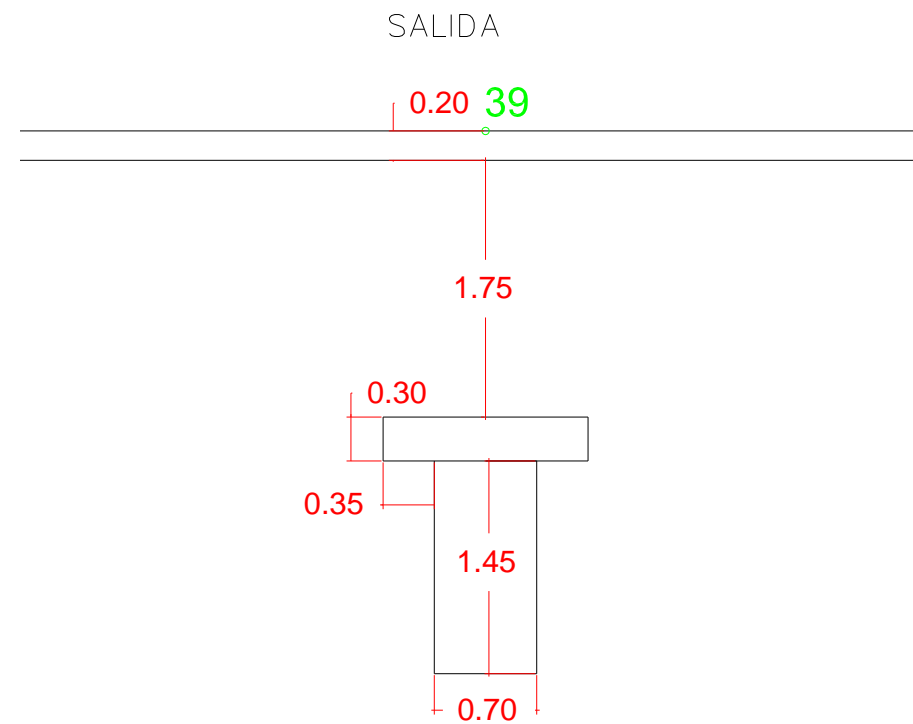
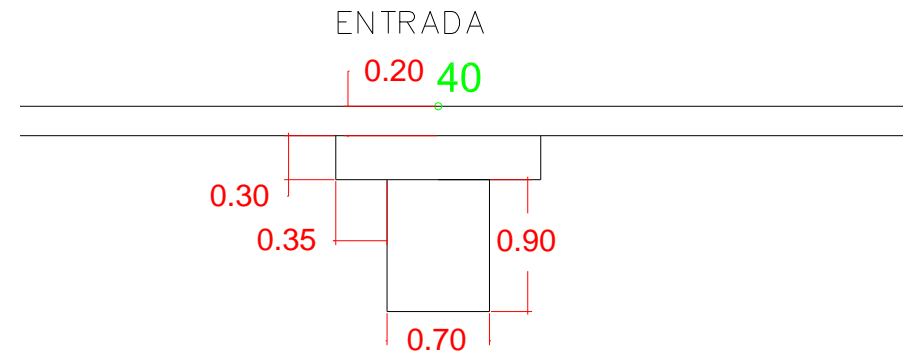
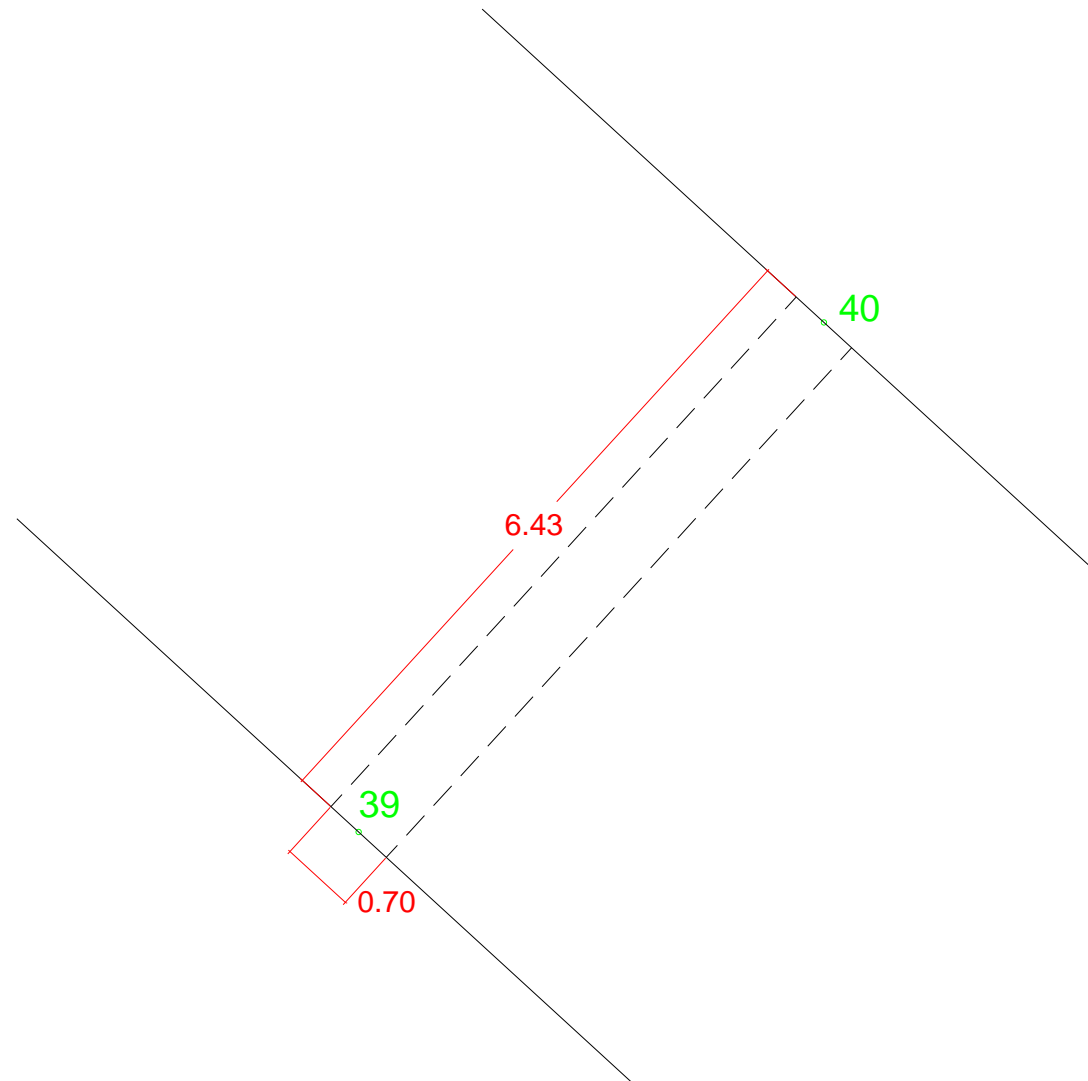


PUNTO	X	Y	Z
42	744900,912	4707278,365	676,075
41	744896,634	4707273,777	675,866

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
41	744789,534	4707063,557	675,867
42	744793,812	4707068,145	676,076



**PK 454+100**

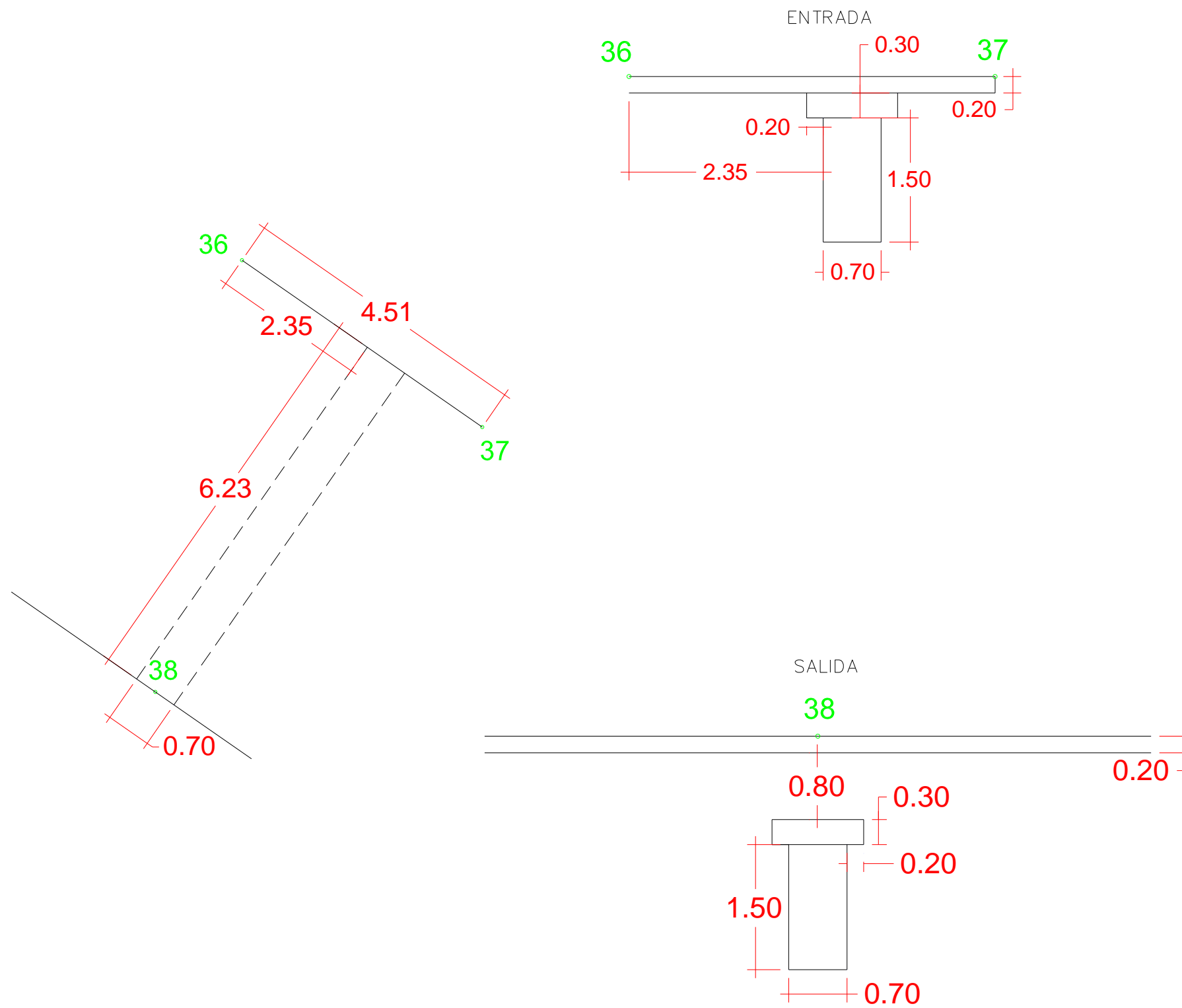


PUNTO	X	Y	Z
39	744866,882	4707300,662	677,055
40	744871,222	4707305,406	677,074

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
39	744759,782	4707090,444	677,056
40	744764,122	4707095,188	677,075

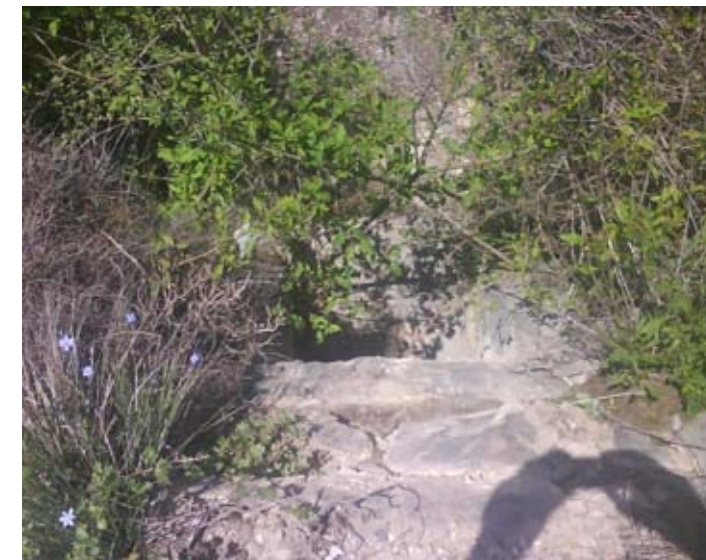


**PK 454+160**



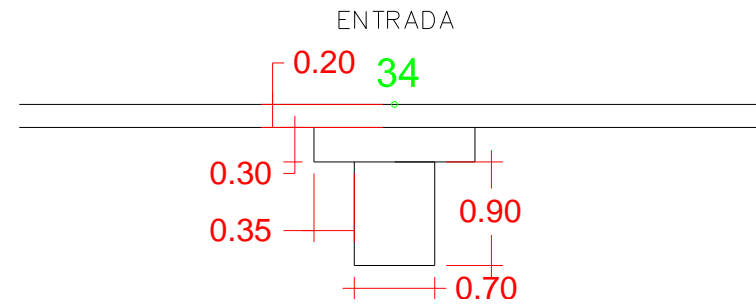
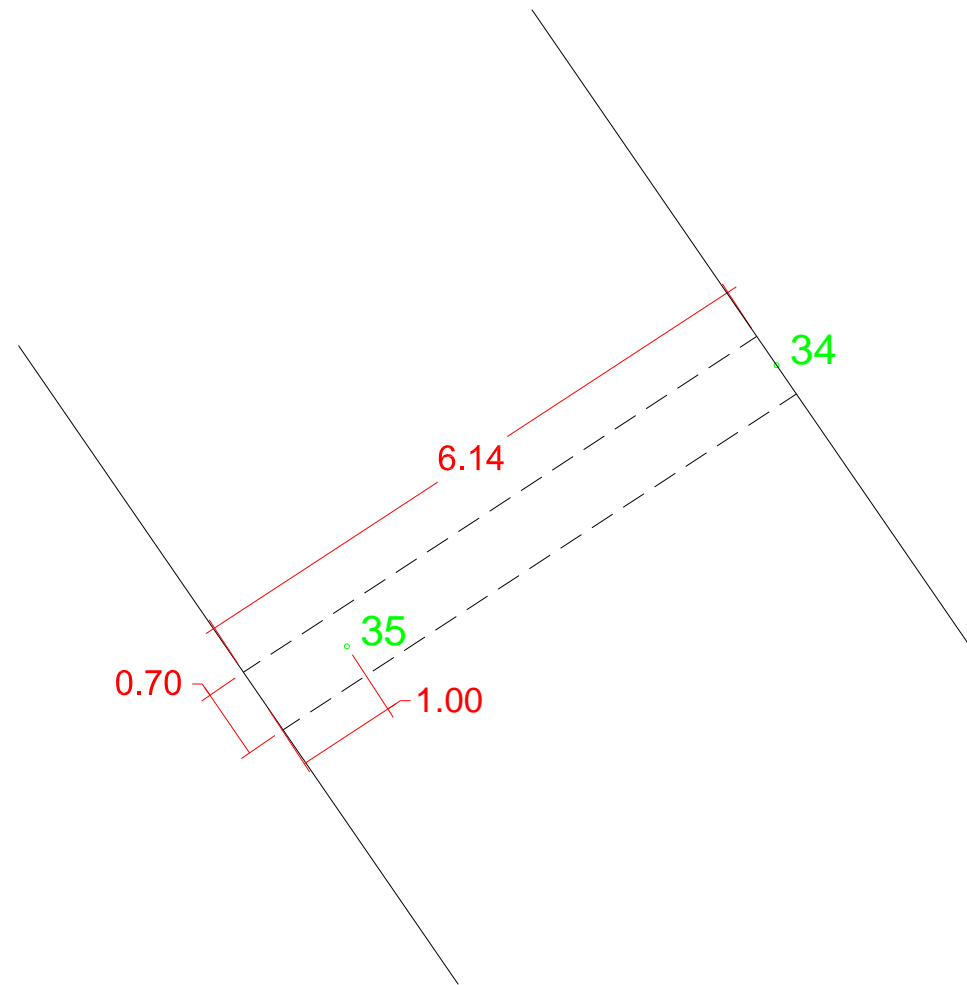
PUNTO	X	Y	Z
36	744818,288	4707345,200	678,636
37	744821,993	4707342,628	678,561
38	744816,951	4707338,546	678,434

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
36	744711,188	4707134,984	678,63
37	744714,893	4707132,412	678,56
38	744709,850	4707128,330	678,43



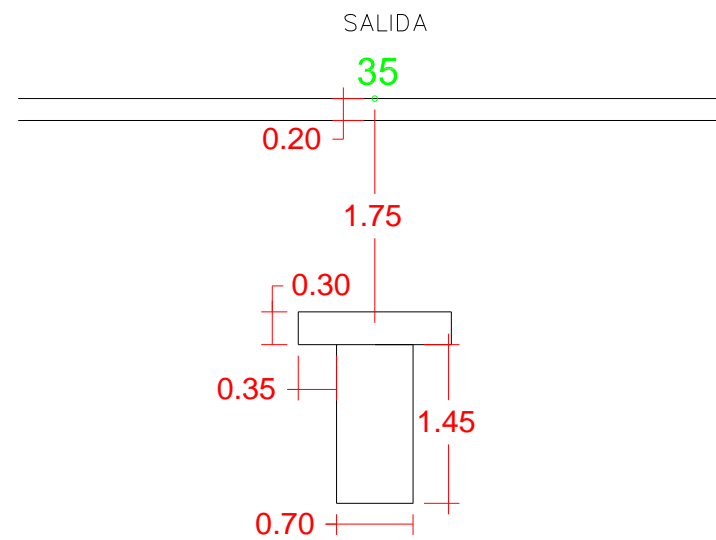


**PK 454+350**

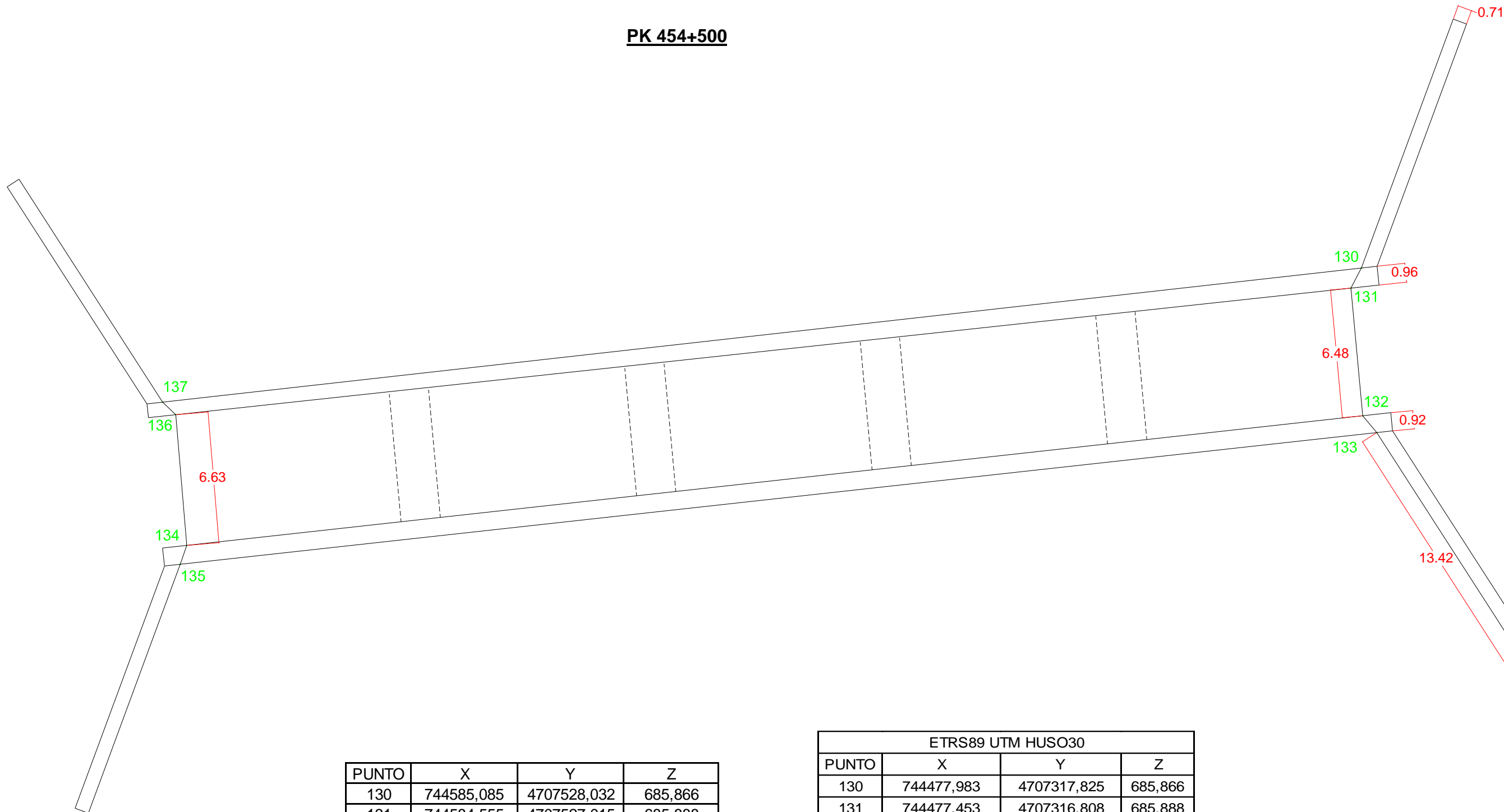


PUNTO	X	Y	Z
34	744685,906	4707453,649	683,528
35	744681,604	4707450,835	683,841

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
34	744578,805	4707243,438	683,528
35	744574,503	4707240,624	683,841

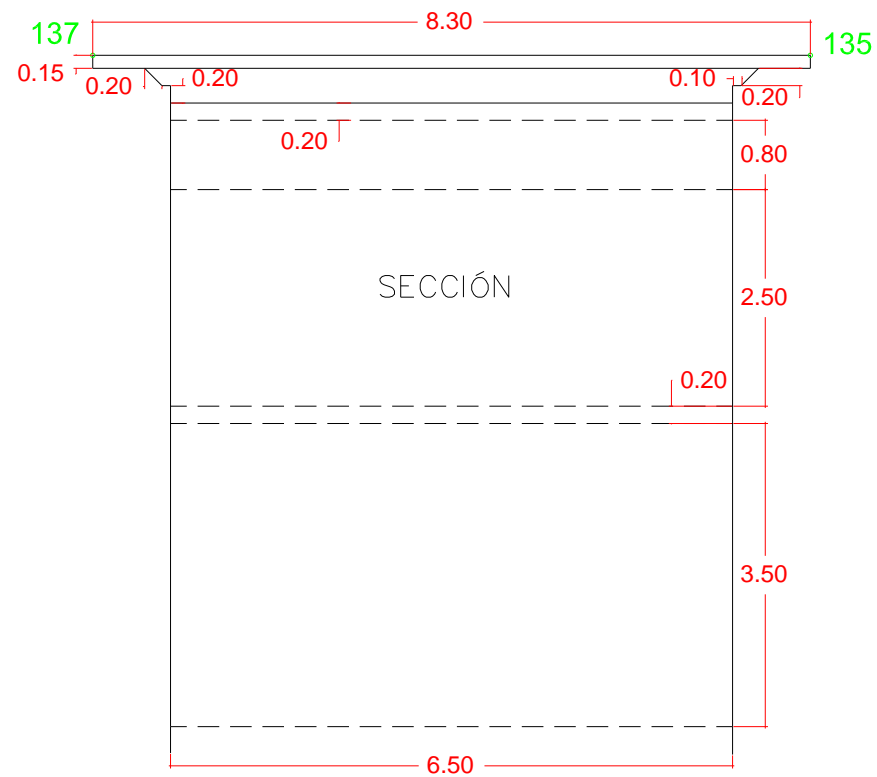
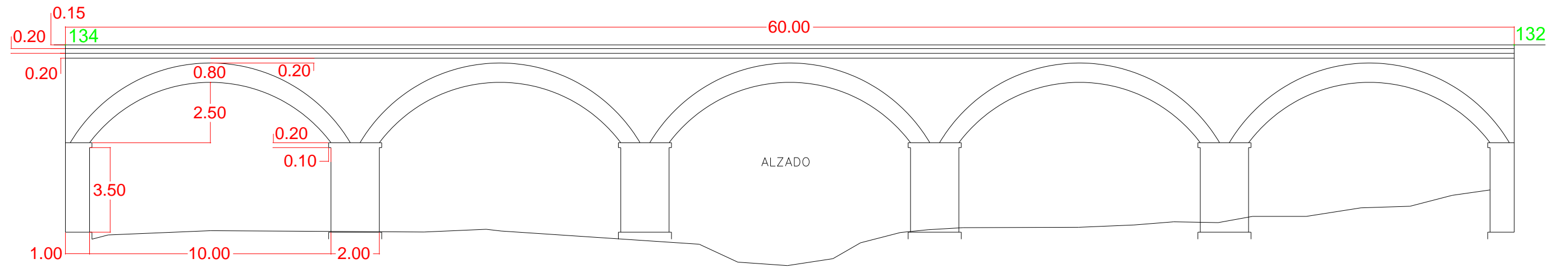


**PK 454+500**



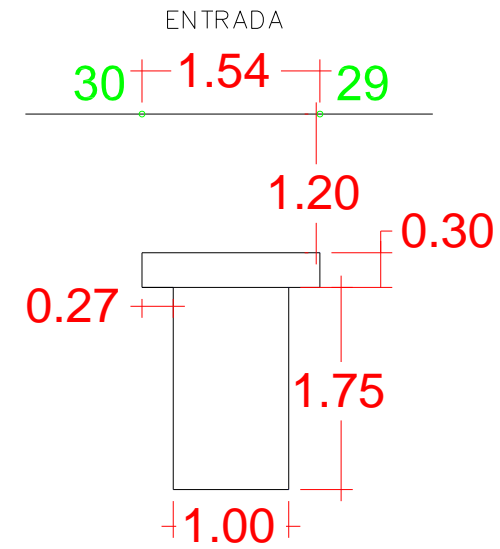
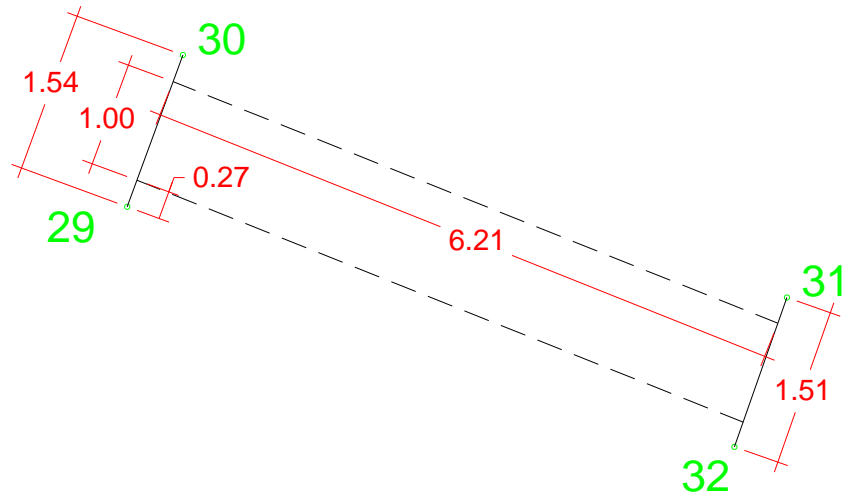
PUNTO	X	Y	Z
130	744585,085	4707528,032	685,866
131	744584,555	4707527,015	685,888
132	744585,151	4707520,561	685,899
133	744585,865	4707519,711	685,924
134	744525,590	4707514,007	685,880
135	744525,260	4707513,052	685,856
136	744525,036	4707520,614	685,895
137	744524,369	4707521,249	685,860

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
130	744477,983	4707317,825	685,866
131	744477,453	4707316,808	685,888
132	744478,049	4707310,354	685,899
133	744478,763	4707309,504	685,924
134	744418,487	4707303,801	685,880
135	744418,156	4707302,846	685,856
136	744417,933	4707310,408	685,895
137	744417,266	4707311,043	685,860



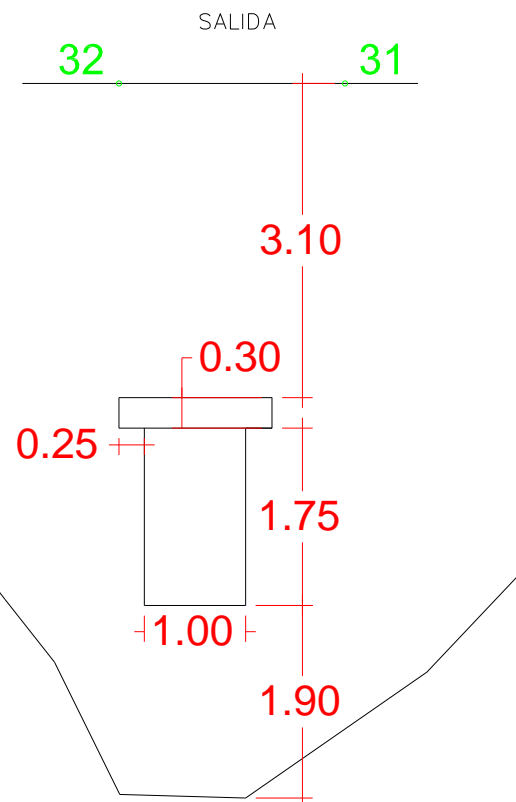


**PK 454+850**



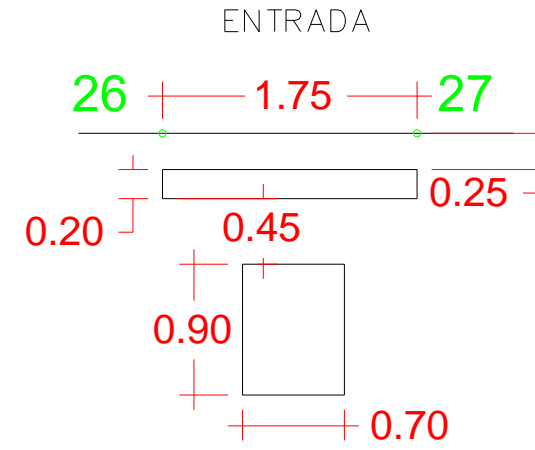
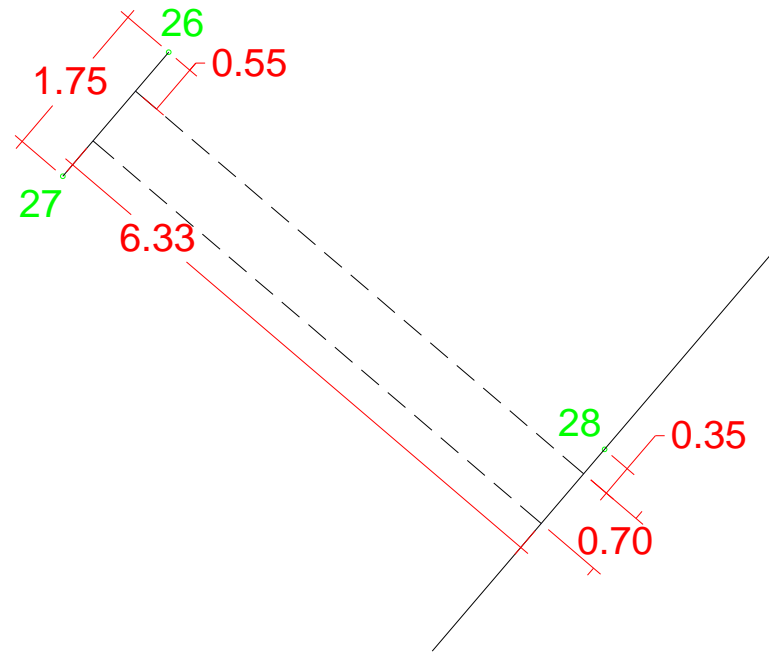
PUNTO	X	Y	Z
29	744472,807	4707269,246	690,003
30	744473,338	4707270,693	689,955
31	744479,099	4707268,381	689,935
32	744478,598	4707266,957	689,931

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
29	744365,697	4707059,036	690,004
30	744366,228	4707060,483	689,956
31	744371,989	4707058,170	689,936
32	744371,488	4707056,746	689,932





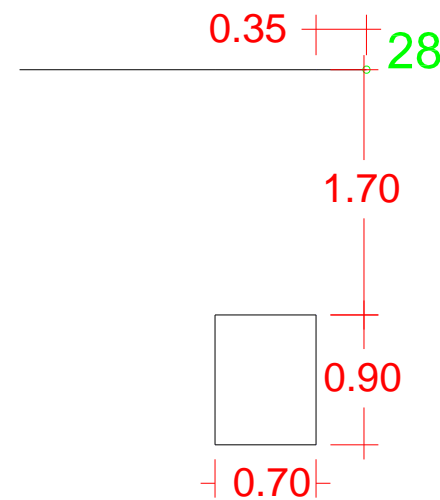
**PK 454+950**



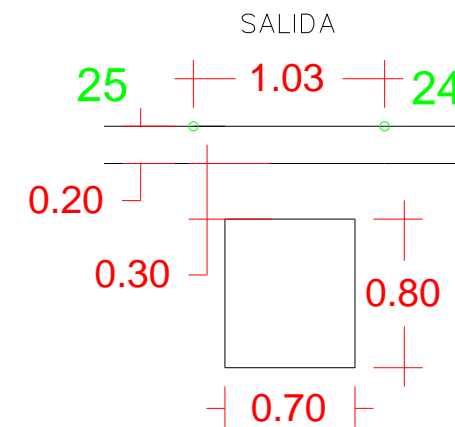
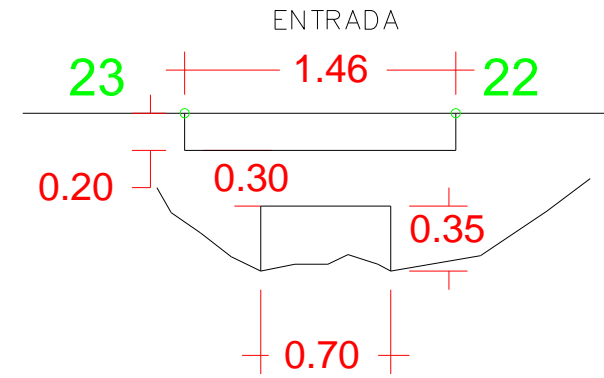
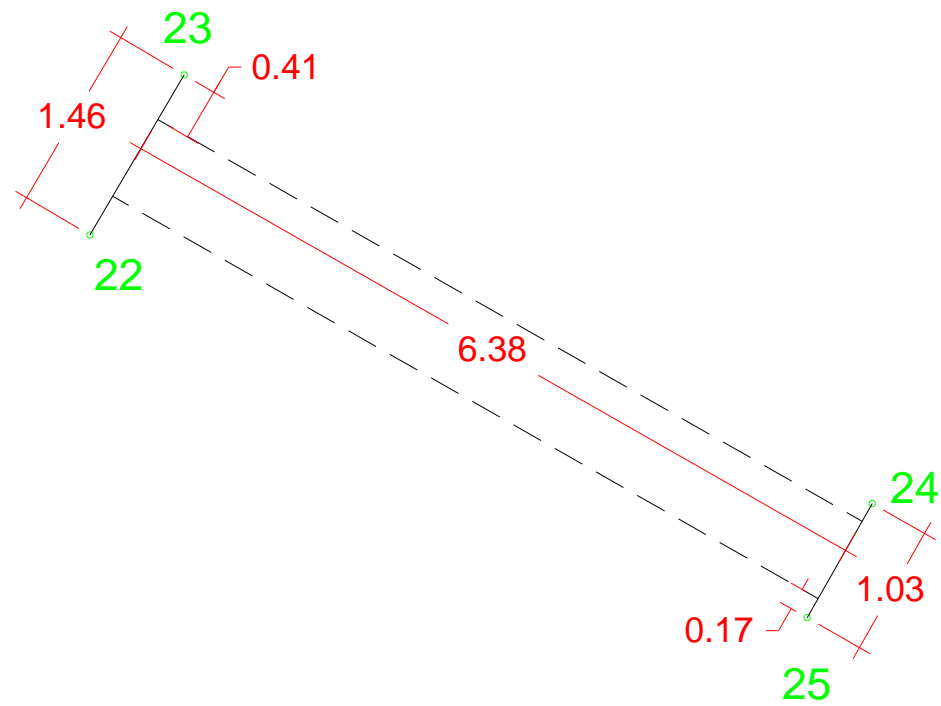
PUNTO	X	Y	Z
26	744439,871	4707190,973	689,374
27	744438,733	4707189,640	689,274
28	744444,556	4707186,705	689,373

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
26	744332,758	4706980,762	689,376
27	744331,620	4706979,429	689,276
28	744337,443	4706976,493	689,375

SALIDA



**PK 455+150**

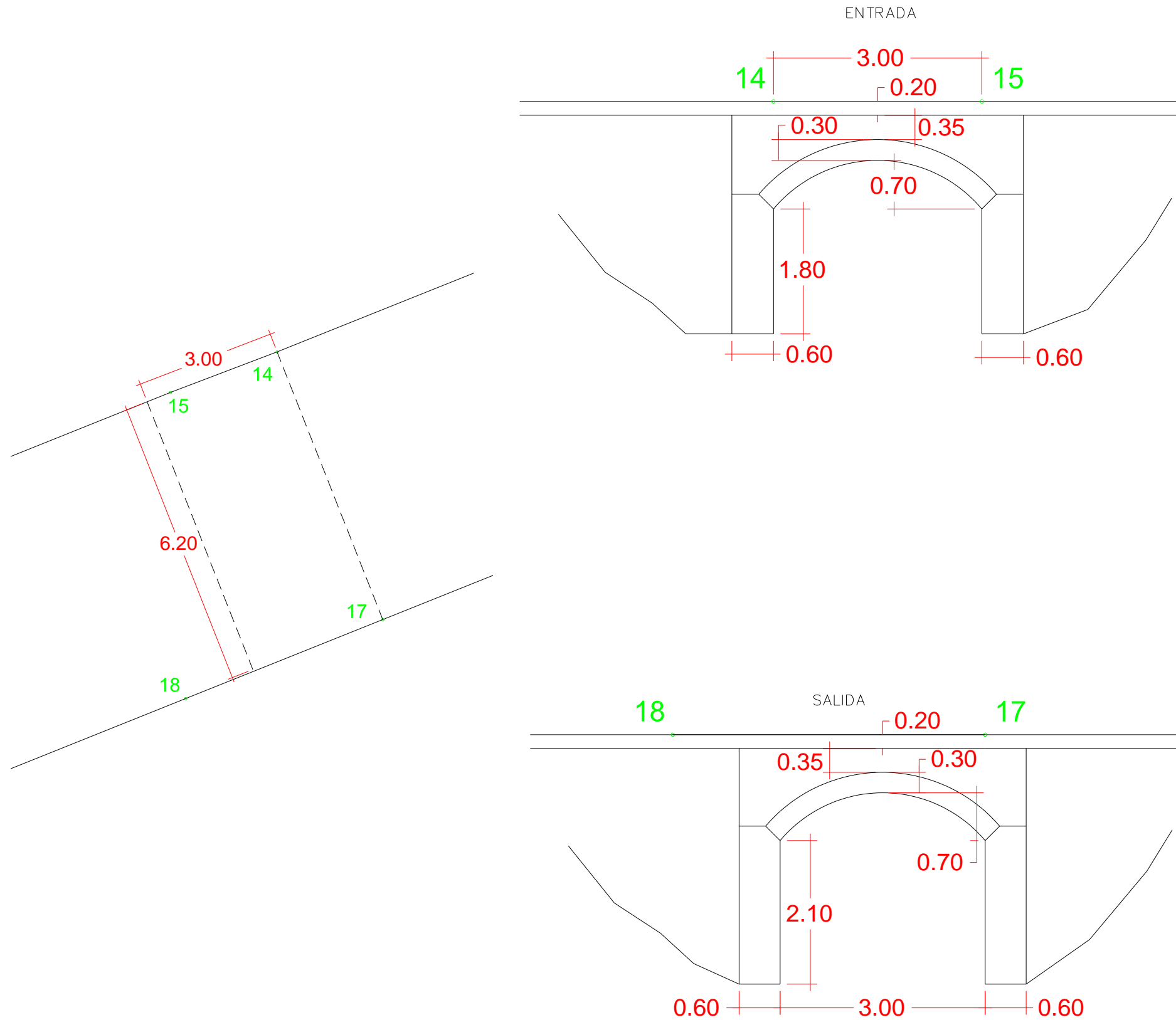


PUNTO	X	Y	Z
22	744316,350	4706999,036	688,986
23	744317,092	4707000,296	688,984
24	744322,508	4706996,922	689,087
25	744321,996	4706996,024	688,999

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
22	744209,230	4706788,823	688,989
23	744209,972	4706790,083	688,987
24	744215,388	4706786,709	689,090
25	744214,876	4706785,811	689,002



**PK 455+550**

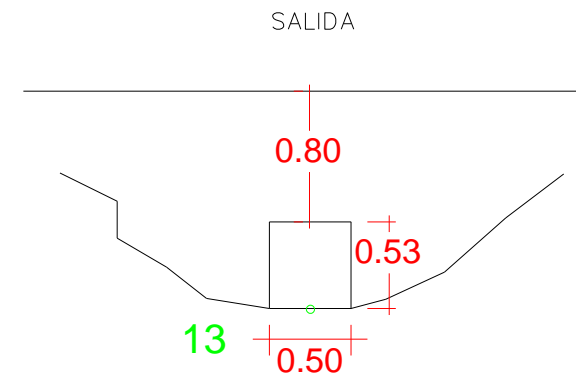
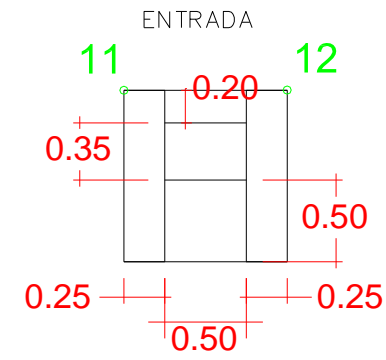
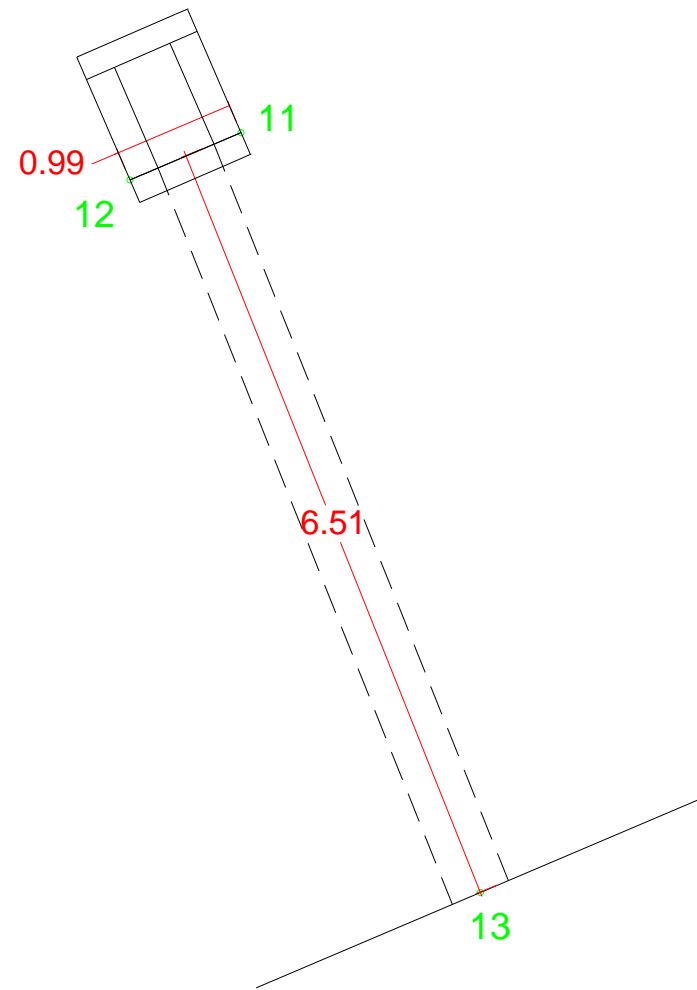


PUNTO	X	Y	Z
14	744083,068	4706824,334	687,802
15	744080,772	4706823,460	687,749
17	744085,346	4706818,565	687,840
18	744081,100	4706816,863	687,812

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
14	743975,939	4706614,122	687,805
15	743973,643	4706613,248	687,752
17	743978,217	4706608,353	687,843
18	743973,971	4706606,651	687,815



**PK 455+975**



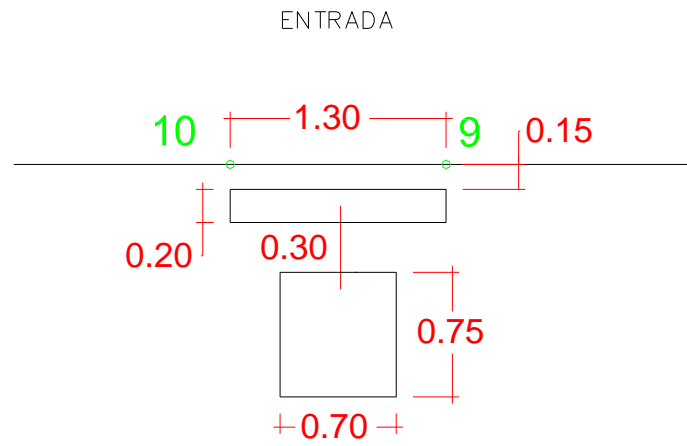
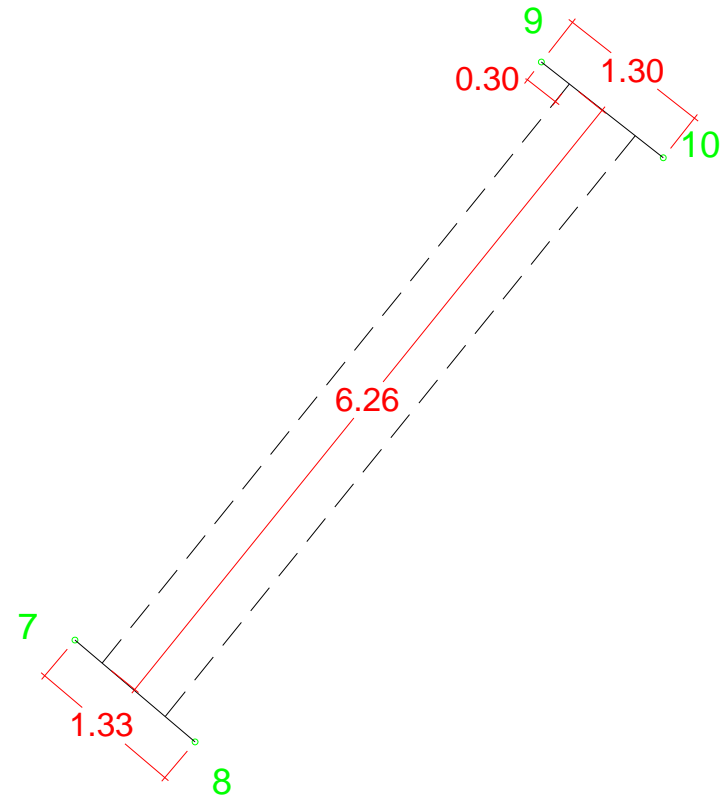
PUNTO	X	Y	Z
11	743656,506	4706659,460	685,601
12	743655,594	4706659,072	685,620
13	743658,471	4706653,223	684,446

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
11	743549,364	4706449,253	685,605
12	743548,452	4706448,865	685,624
13	743551,328	4706443,016	684,450



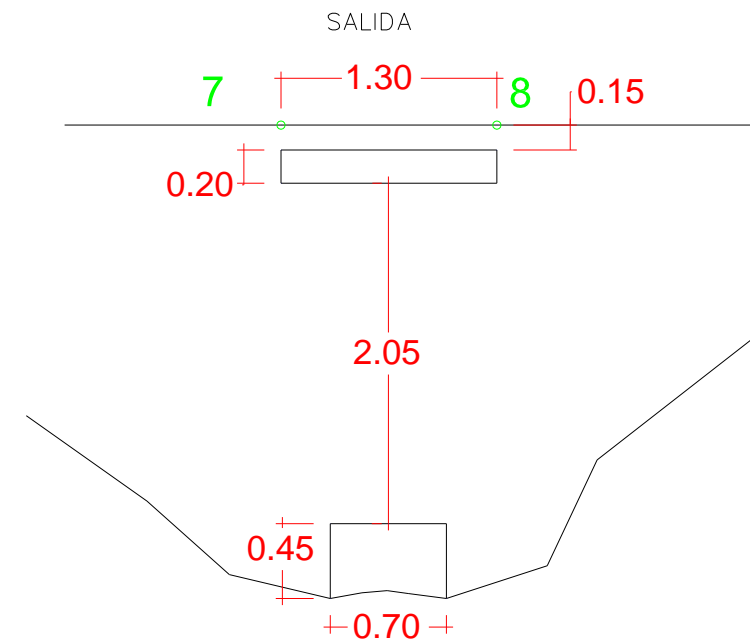


**PK 456+450**

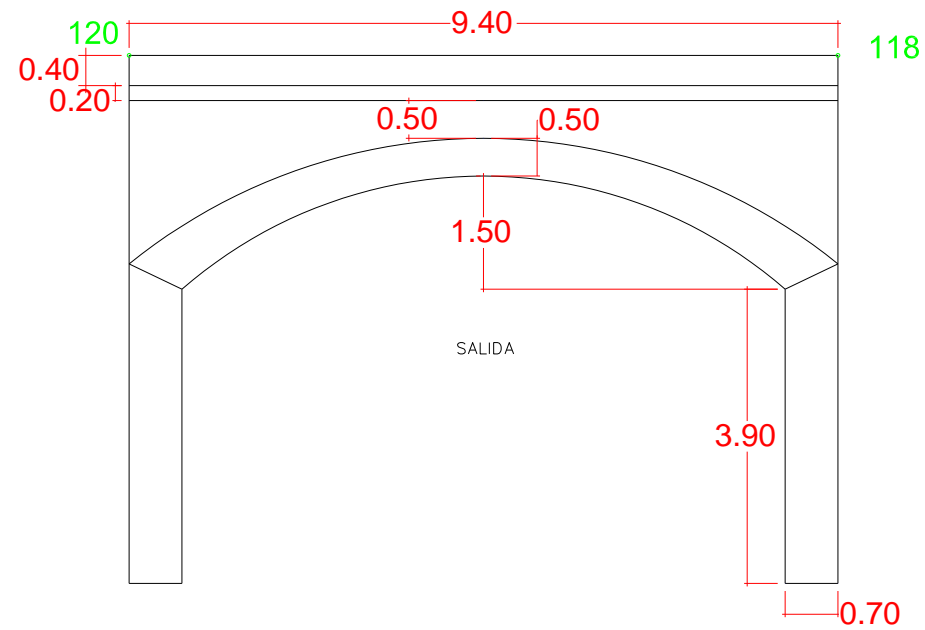
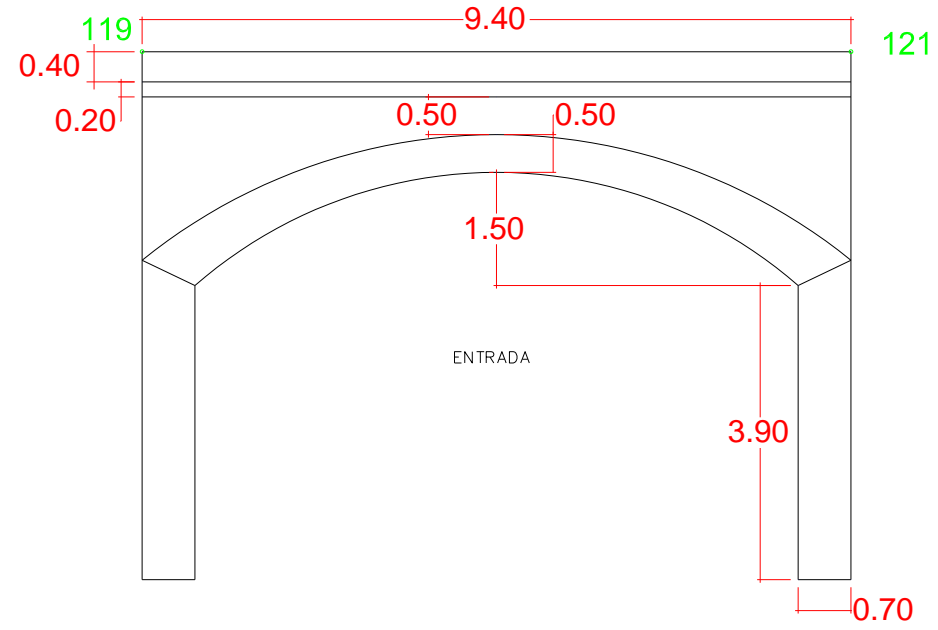
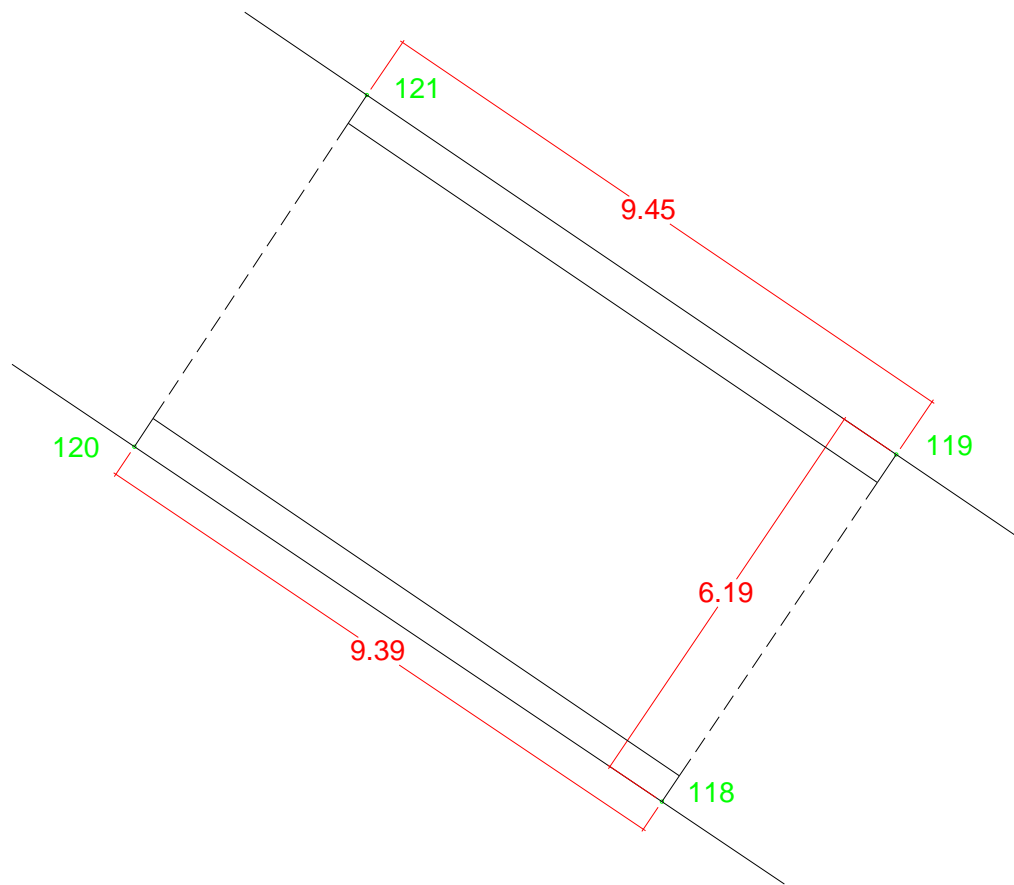


PUNTO	X	Y	Z
7	743293,744	4706774,642	691,539
8	743294,755	4706773,785	691,544
9	743297,670	4706779,507	691,542
10	743298,696	4706778,701	691,539

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
7	743186,596	4706564,446	691,543
8	743187,607	4706563,589	691,548
9	743190,522	4706569,311	691,546
10	743191,548	4706568,505	691,543



**PK 456+550**



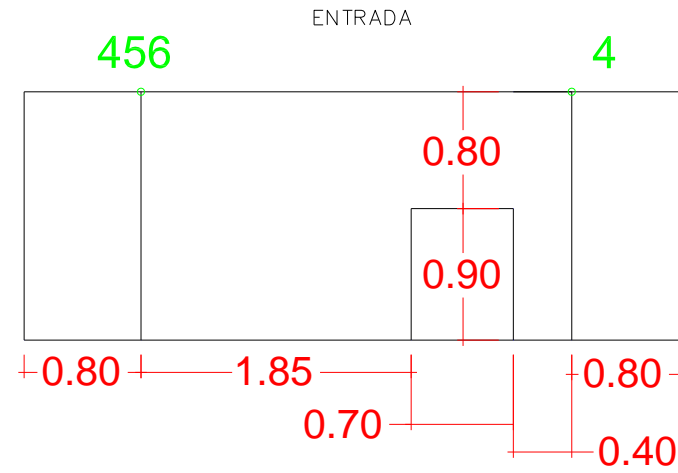
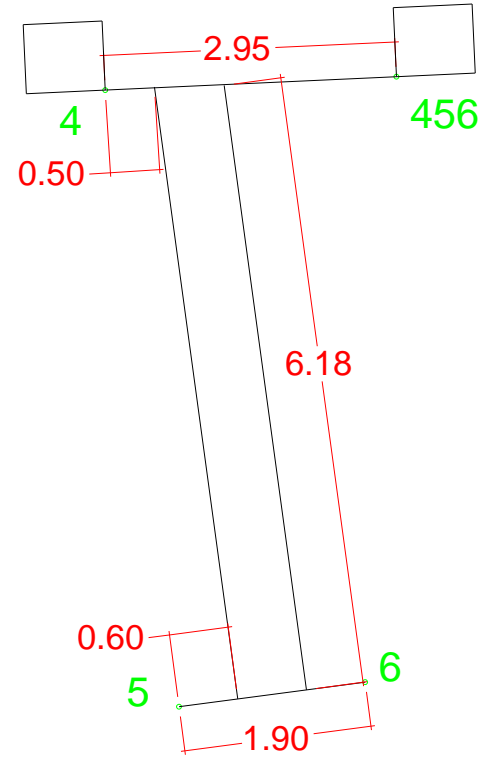
PUNTO	X	Y	Z
118	743163,324	4706875,180	691,67
119	743166,787	4706880,308	691,69
120	743155,529	4706880,423	691,70
121	743158,964	4706885,618	691,64

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
118	743056,175	4706664,989	691,
119	743059,638	4706670,117	691,
120	743048,380	4706670,233	691,
121	743051,815	4706675,428	691,



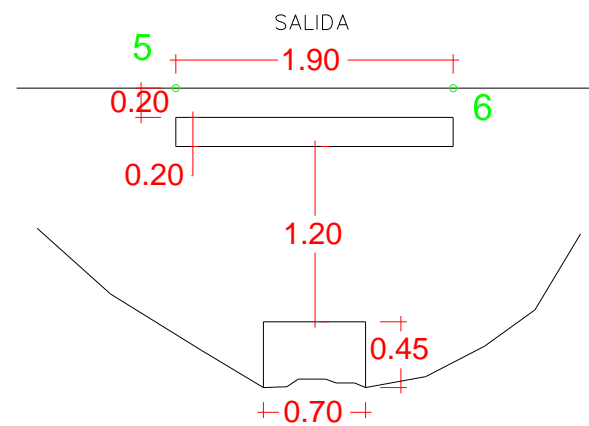


**PK 456+800**

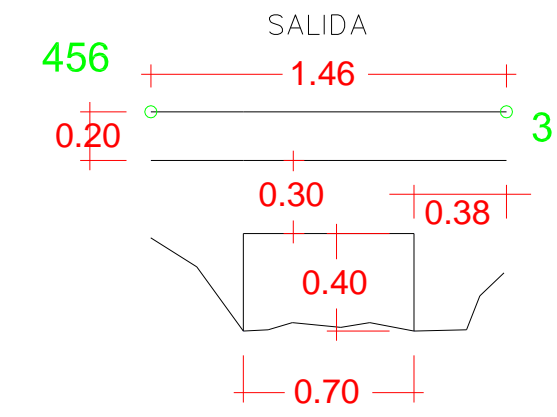
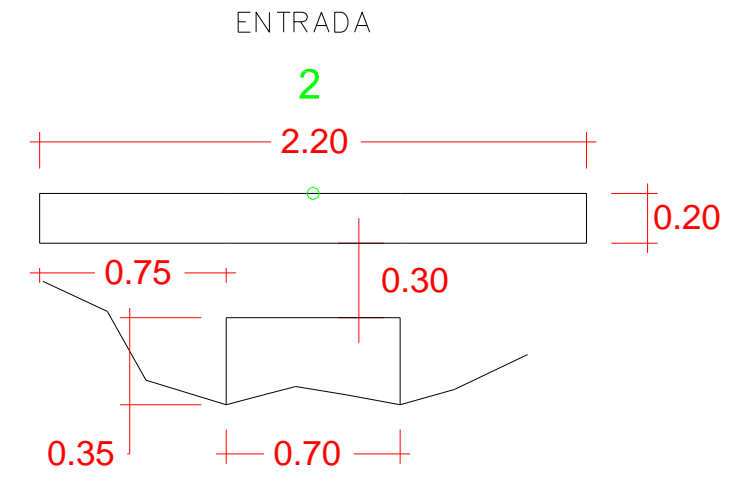
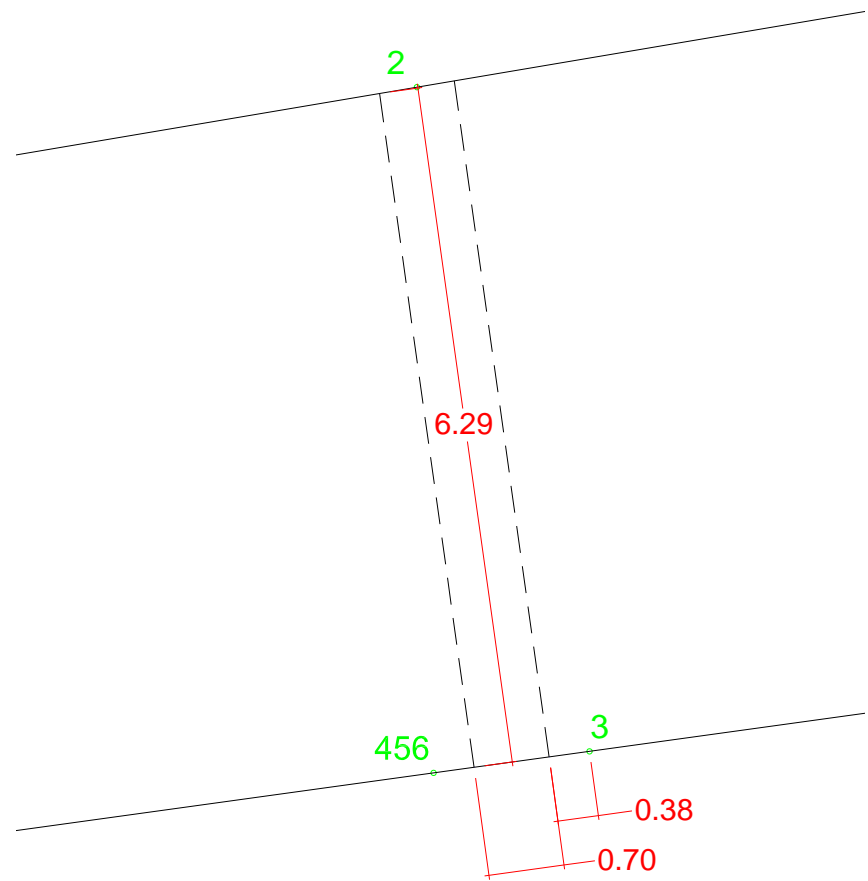


PUNTO	X	Y	Z
4	742943,547	4706960,064	696,807
5	742944,295	4706953,818	696,488
6	742946,181	4706954,067	696,462
456	742946,498	4706960,200	696,894

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
4	742836,395	4706749,880	696,811
5	742837,143	4706743,634	696,492
6	742839,029	4706743,883	696,466
456	742839,346	4706750,016	696,898



**PK 456+950**



PUNTO	X	Y	Z
2	742750,790	4706933,000	695,769
3	742752,385	4706926,863	695,753
456	742750,944	4706926,664	695,815

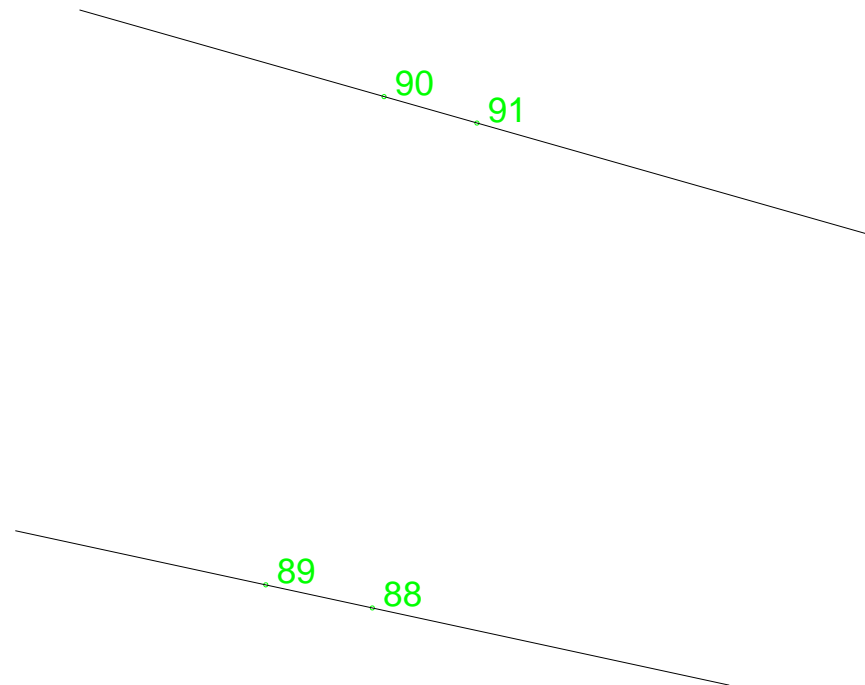
ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
2	742643,633	4706722,820	695,777
3	742645,228	4706716,683	695,755
456	742643,787	4706716,484	695,815





**PK 457+400**

ENTRADA, COMPLETAMENTE ENTERRADA



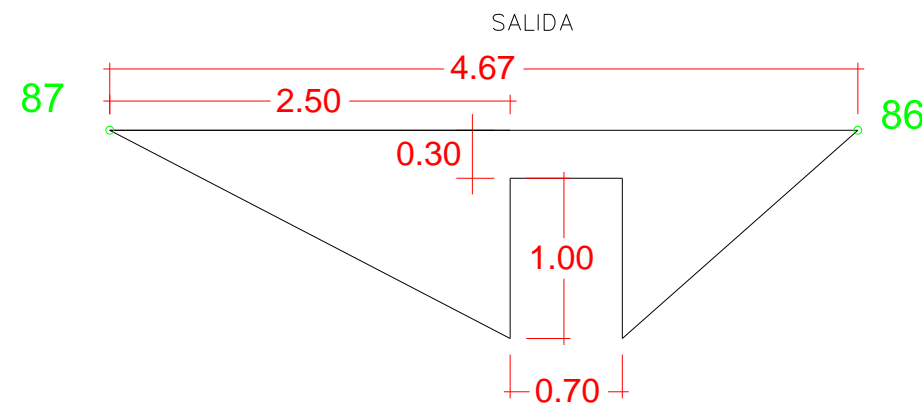
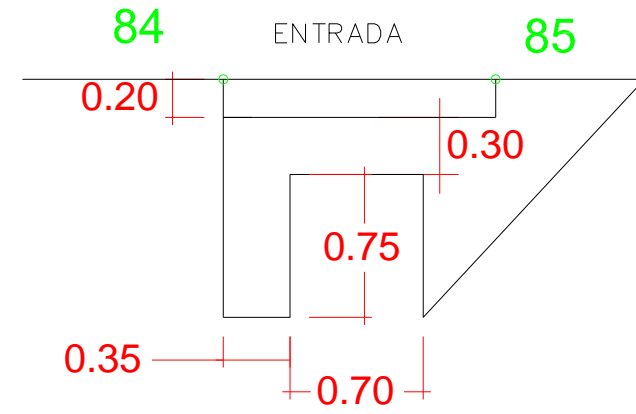
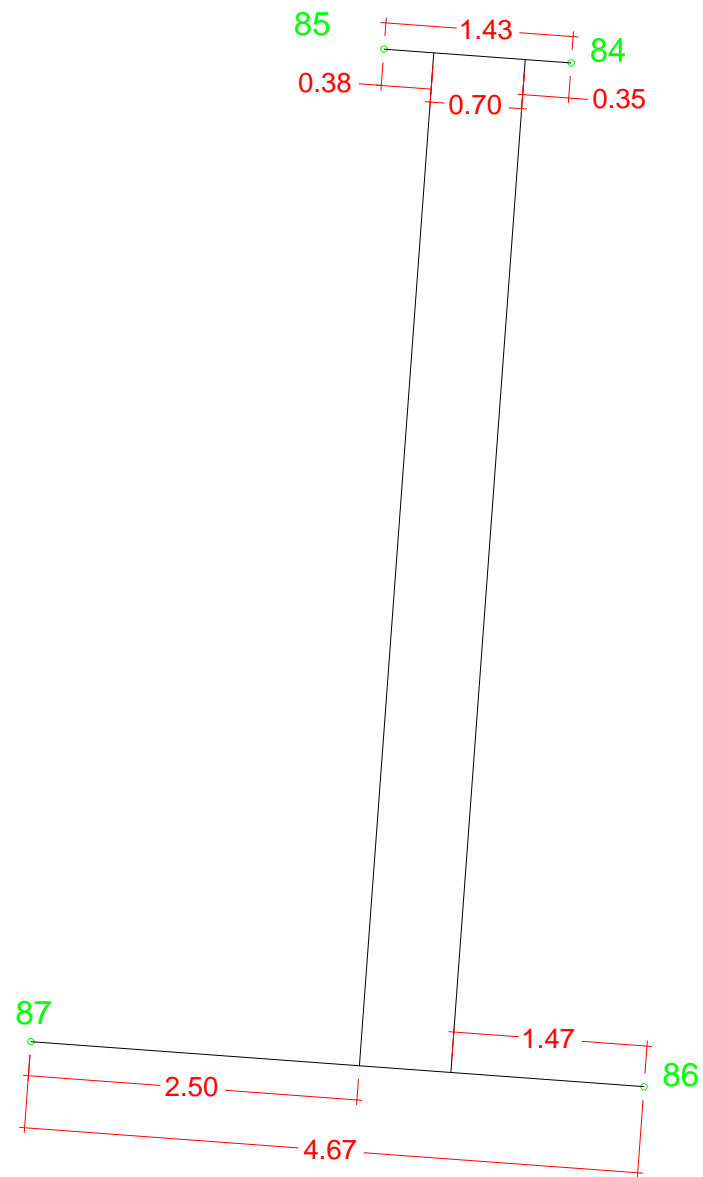
SALIDA, COMPLETAMENTE ENTERRADA

PUNTO	X	Y	Z
88	742322,641	4706964,815	702,604
89	742321,370	4706965,090	702,646
90	742322,781	4706970,913	702,655
91	742323,889	4706970,598	702,678

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
88	742215,474	4706754,645	702,608
89	742214,203	4706754,920	702,650
90	742215,615	4706760,743	702,659
91	742216,723	4706760,428	702,682



**PK 457+600**

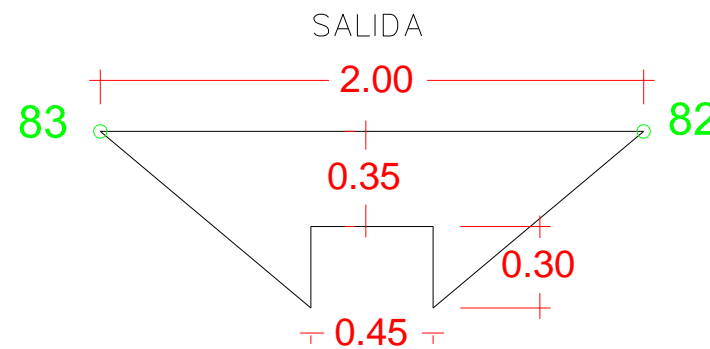
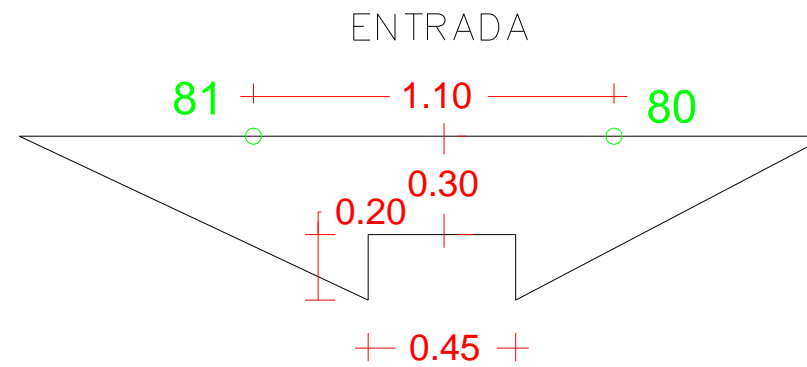


PUNTO	X	Y	Z
84	742150,680	4706999,865	704,990
85	742149,283	4707000,322	704,928
86	742151,259	4706992,441	704,729
87	742146,601	4706992,783	704,666

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
84	742043,499	4706789,713	704,990
85	742042,102	4706790,170	704,928
86	742044,078	4706782,289	704,729
87	742039,420	4706782,631	704,666



**PK 457+900**

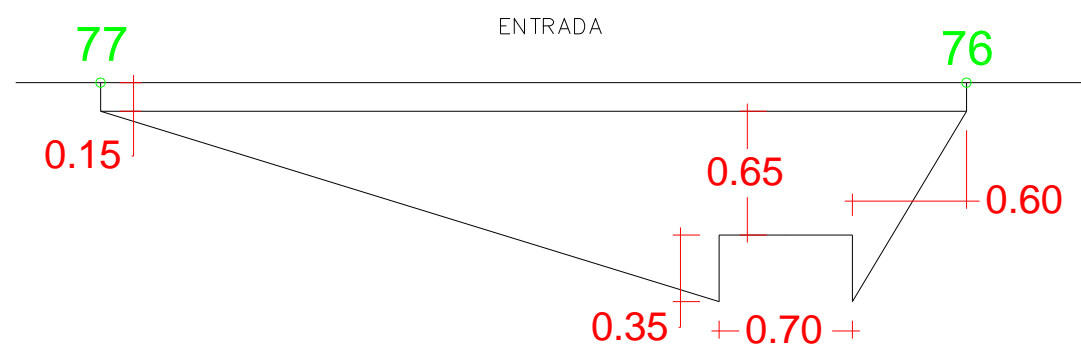
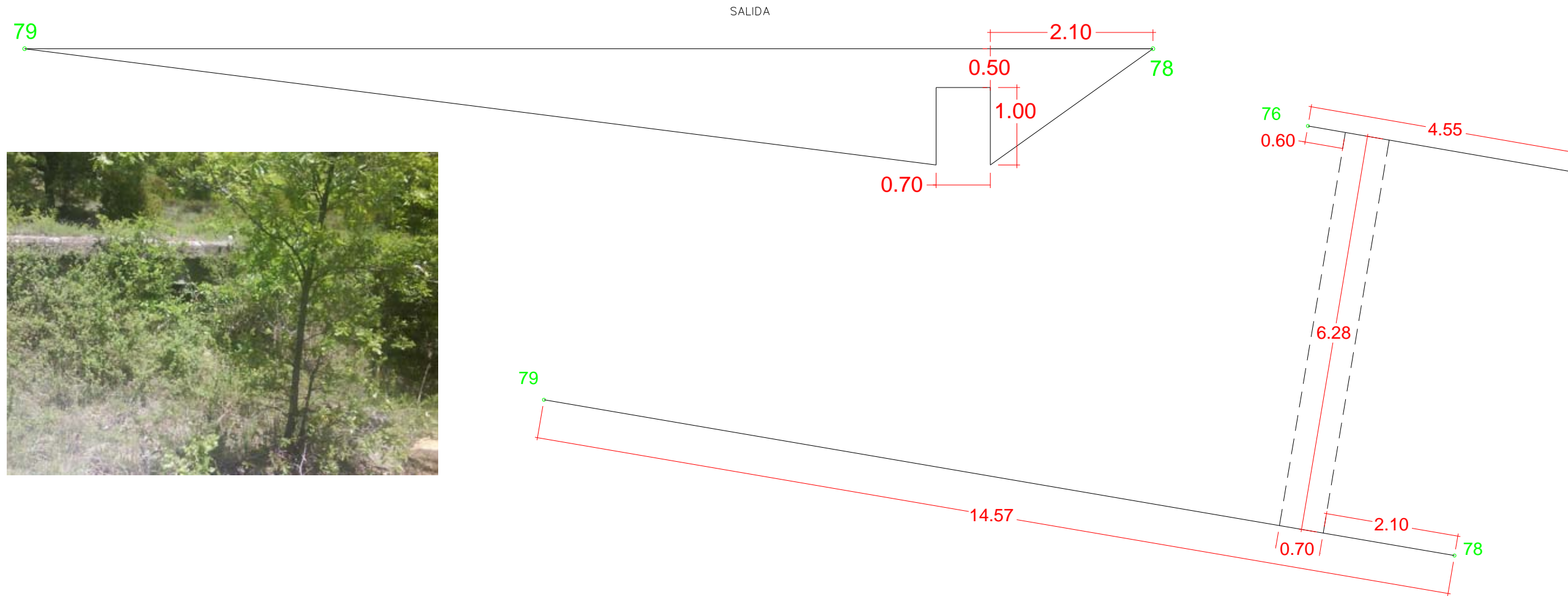


PUNTO	X	Y	Z
80	741897,667	4707042,222	708,308
81	741898,737	4707042,020	708,278
82	741898,594	4707035,795	708,304
83	741896,622	4707036,004	708,347

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
80	741790,492	4706832,063	708,313
81	741791,562	4706831,861	708,283
82	741791,419	4706825,636	708,309
83	741789,447	4706825,845	708,352



**PK 457+950**

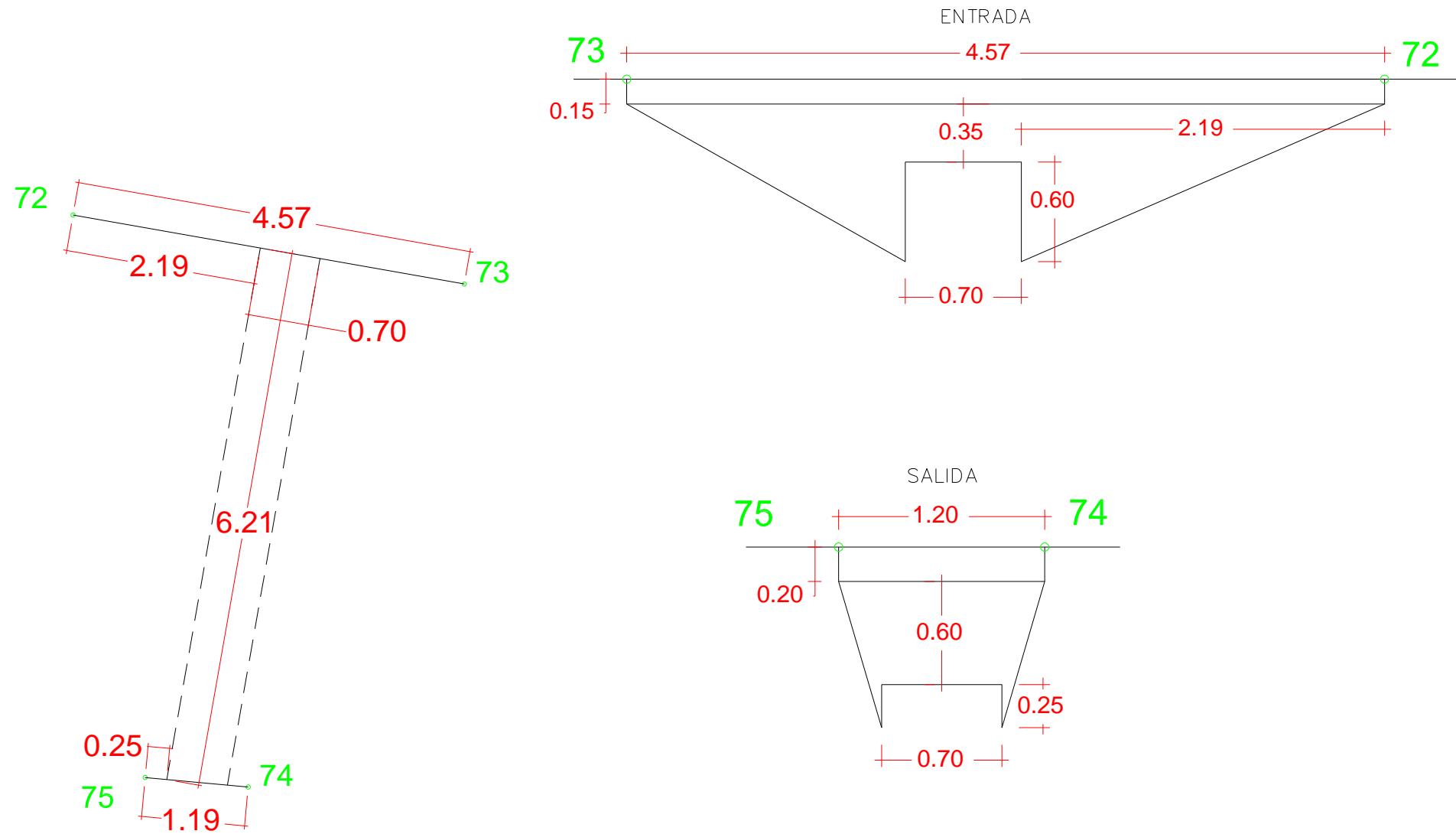


PUNTO	X	Y	Z
76	741829,610	4707053,503	709,056
77	741834,098	4707052,725	709,042
78	741831,921	4707046,736	708,987
79	741817,564	4707049,190	708,959

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
76	741722,434	4706843,346	709,061
77	741726,922	4706842,568	709,047
78	741724,745	4706836,579	708,992
79	741710,388	4706839,033	708,964

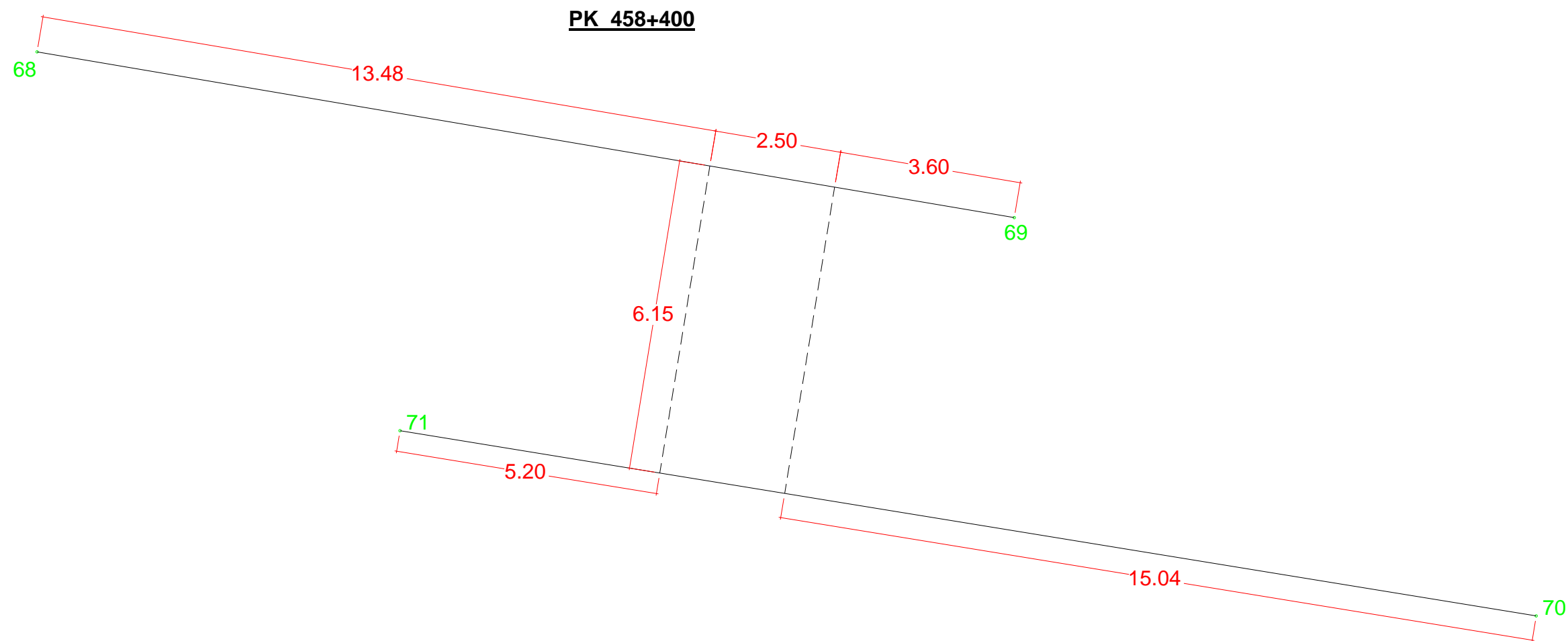


**PK 458+100**

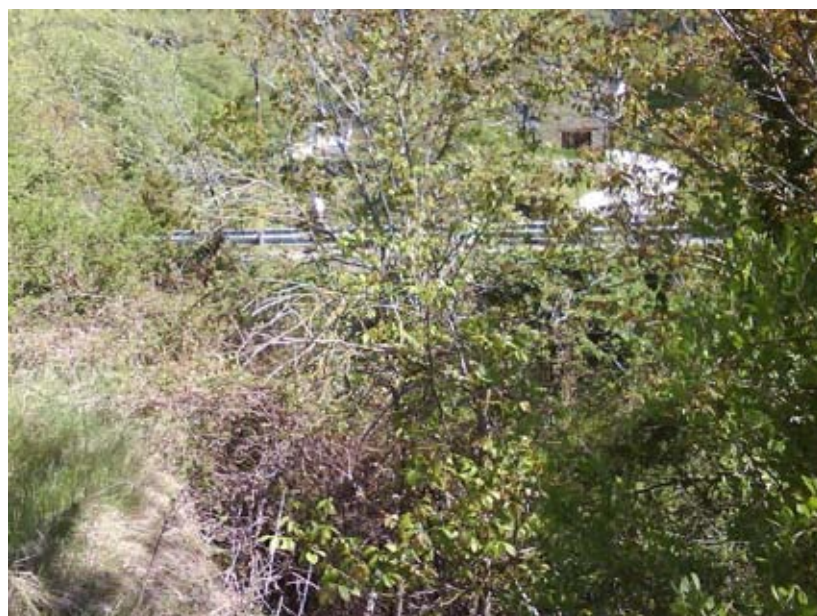


PUNTO	X	Y	Z
72	741613,106	4707089,479	713,125
73	741617,610	4707088,686	713,072
74	741615,122	4707082,900	713,057
75	741613,936	4707083,009	713,052

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
72	741505,926	4706879,327	713,130
73	741510,430	4706878,534	713,077
74	741507,942	4706872,748	713,062
75	741506,756	4706872,857	713,057



ENTREDA



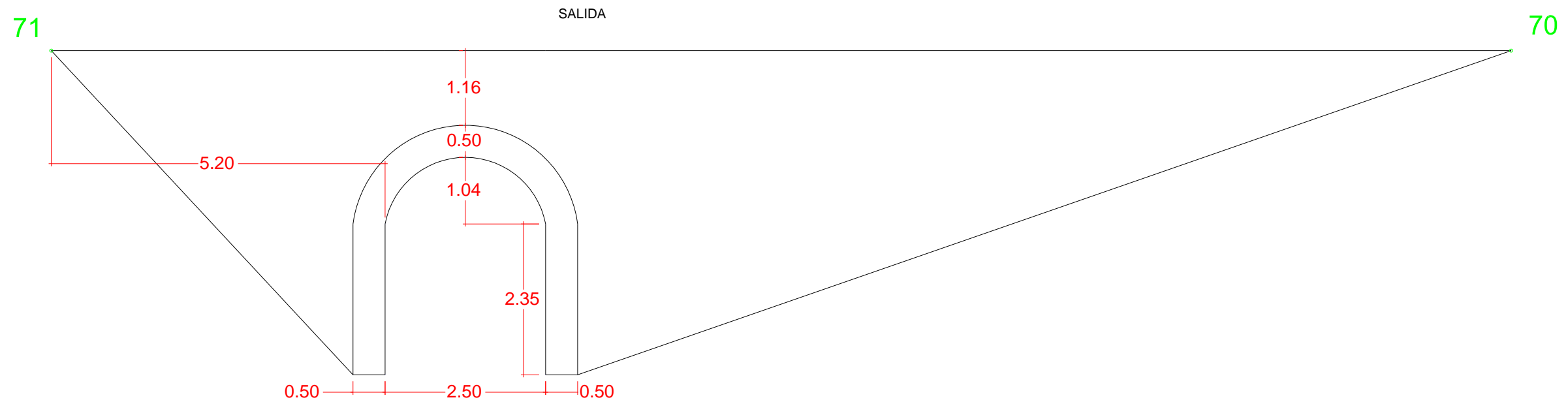
SALIDA





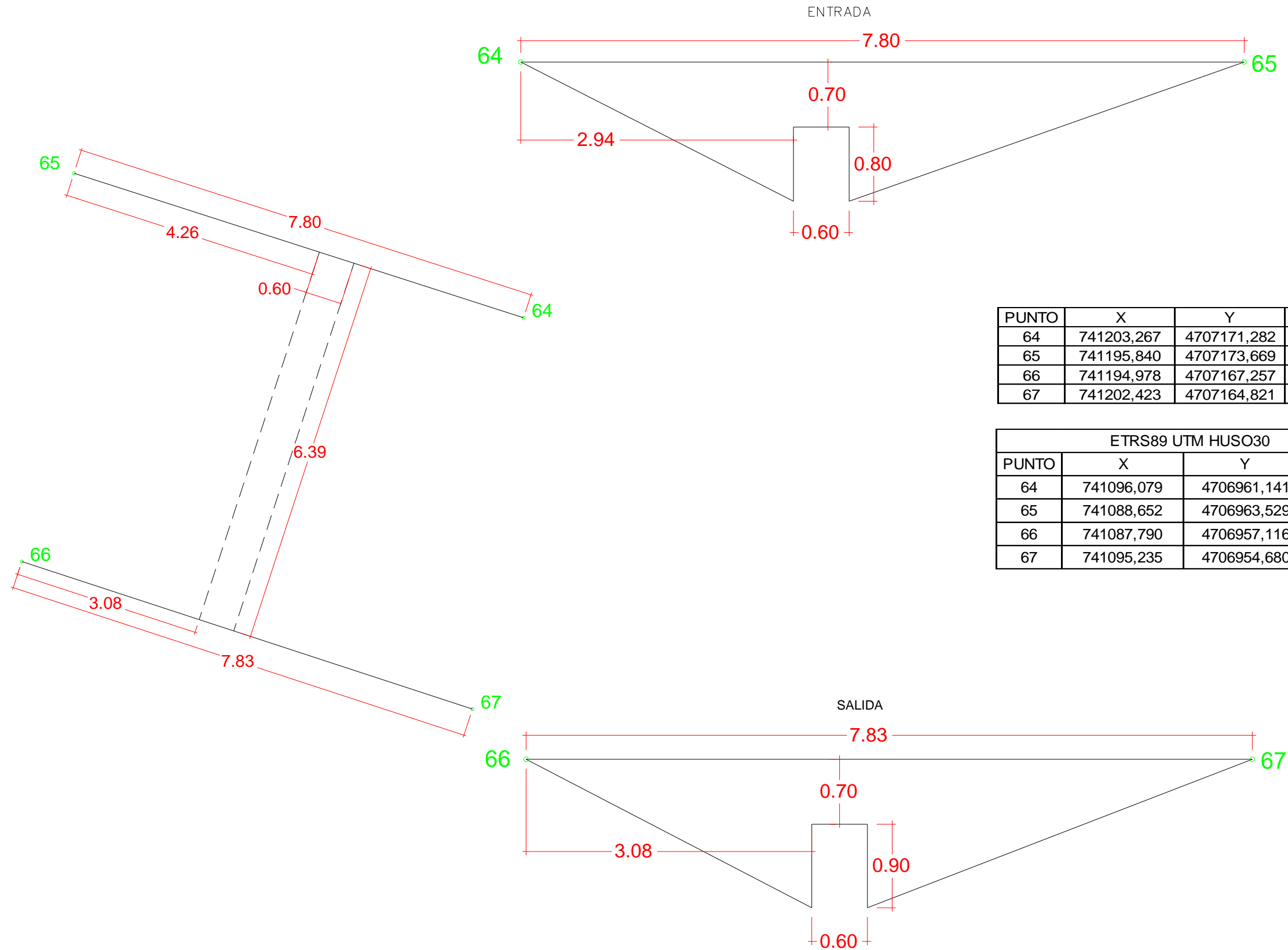
PUNTO	X	Y	Z
68	741374,255	4707129,390	721,131
69	741393,562	4707126,114	721,307
70	741403,874	4707118,243	721,164
71	741381,426	4707121,904	721,135

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
68	741267,070	4706919,245	721,136
69	741286,377	4706915,968	721,312
70	741296,690	4706908,097	721,169
71	741274,241	4706911,758	721,140





**PK 458+550**

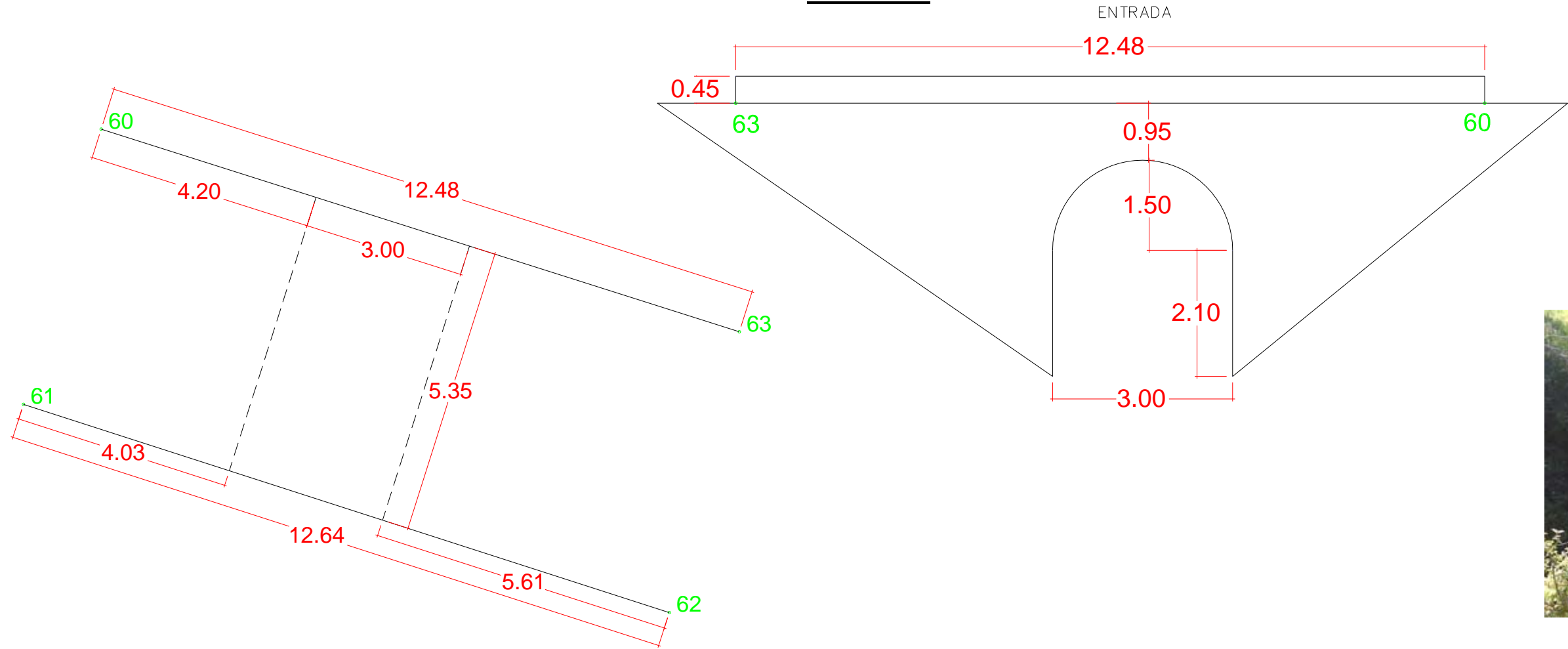


PUNTO	X	Y	Z
64	741203,267	4707171,282	721,033
65	741195,840	4707173,669	721,106
66	741194,978	4707167,257	721,102
67	741202,423	4707164,821	721,042

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
64	741096,079	4706961,141	721,038
65	741088,652	4706963,529	721,111
66	741087,790	4706957,116	721,107
67	741095,235	4706954,680	721,047

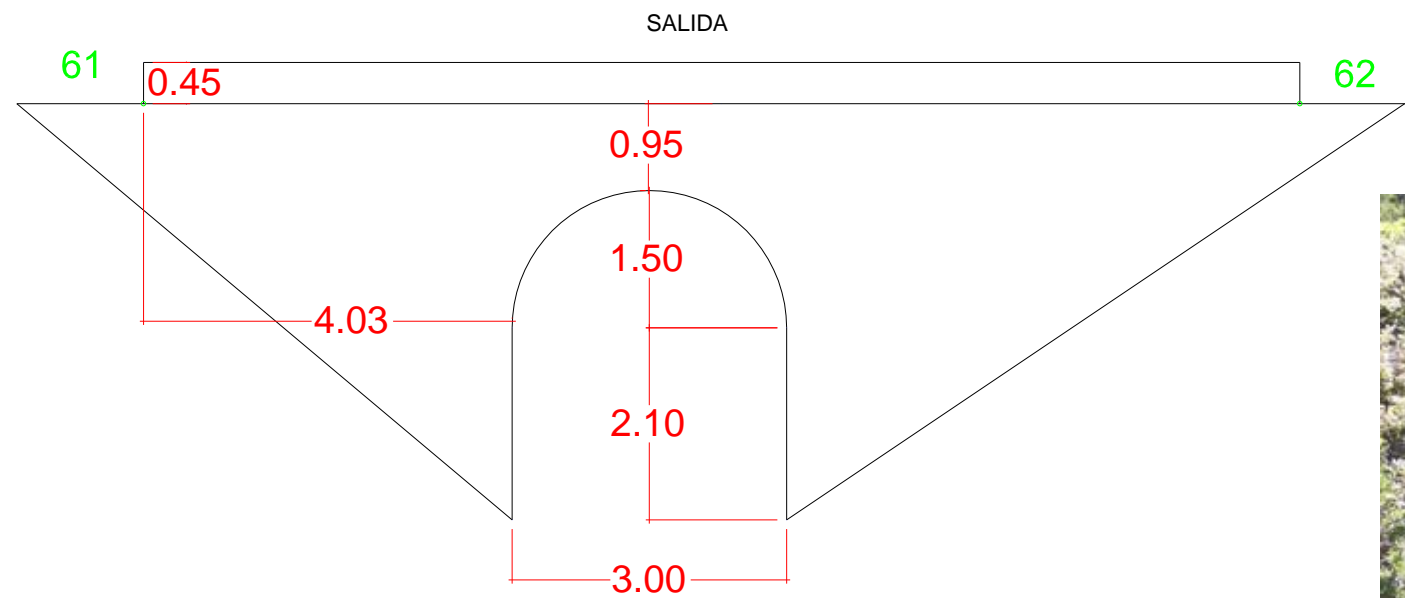


**PK 459+010**

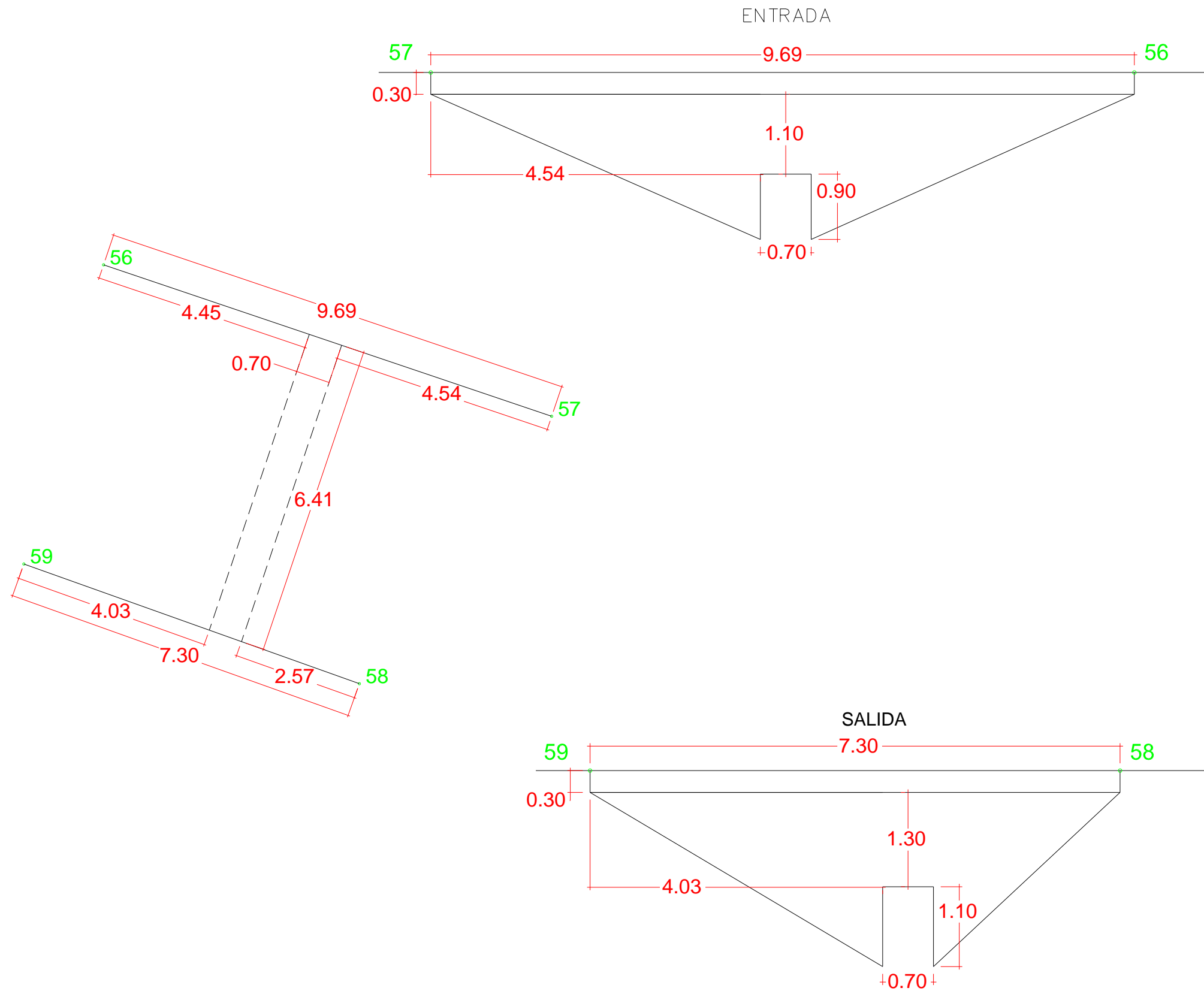


PUNTO	X	Y	Z
60	740775,169	4707305,926	729,409
61	740773,721	4707300,801	729,362
62	740785,755	4707296,923	729,290
63	740787,060	4707302,153	729,309

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
60	740667,974	4707095,798	729,414
61	740666,526	4707090,673	729,367
62	740678,560	4707086,794	729,295
63	740679,865	4707092,025	729,314



**PK 459+100**

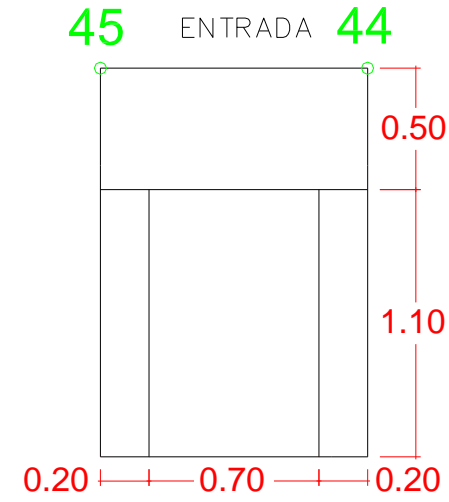
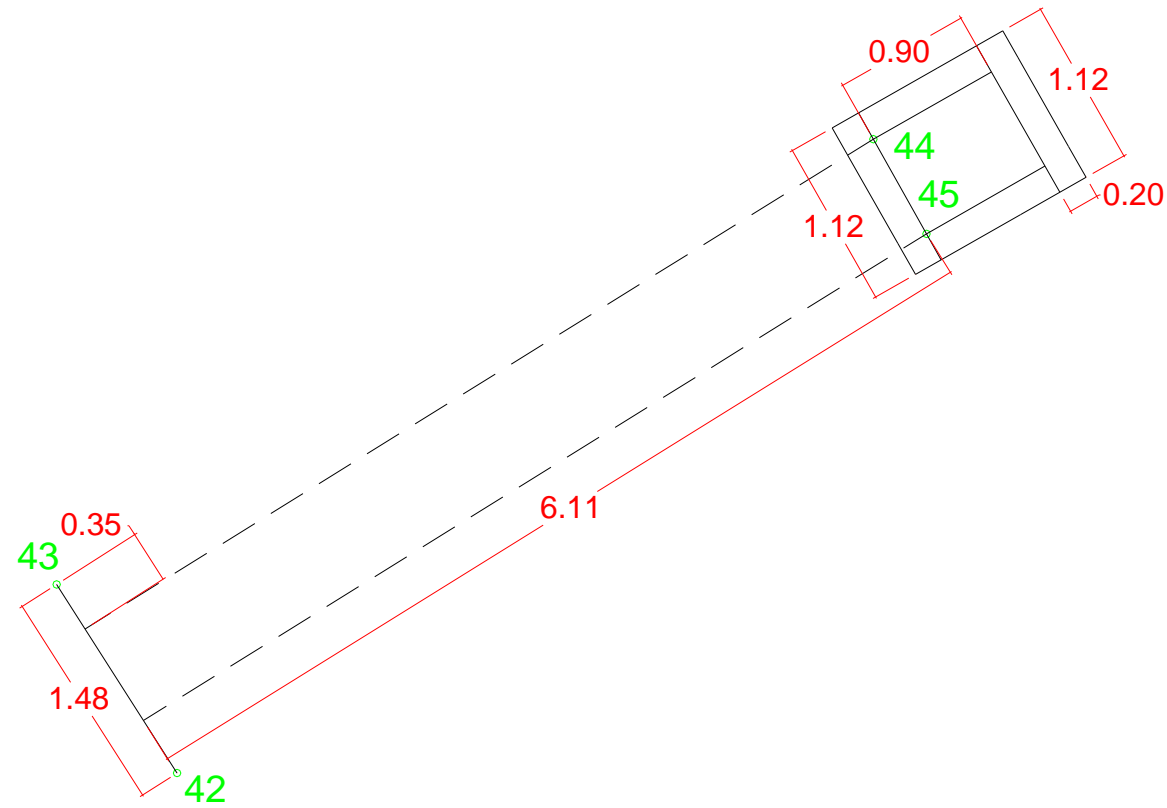


PUNTO	X	Y
56	740689,170	4707333,789
57	740698,353	4707330,685
58	740694,412	4707325,205
59	740687,537	4707327,658

ETRS89 UTM HUSO30		
PUNTO	X	Y
56	740581,974	4707123,663
57	740591,157	4707120,559
58	740587,216	4707115,079
59	740580,341	4707117,532

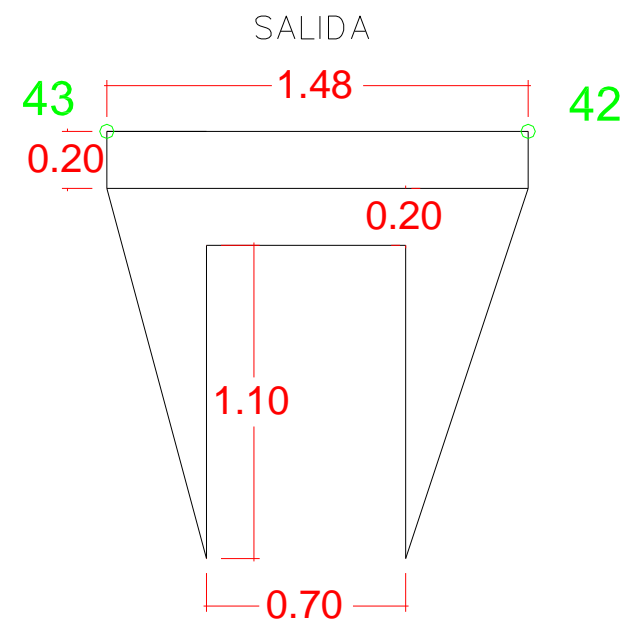


**PK 460+030**



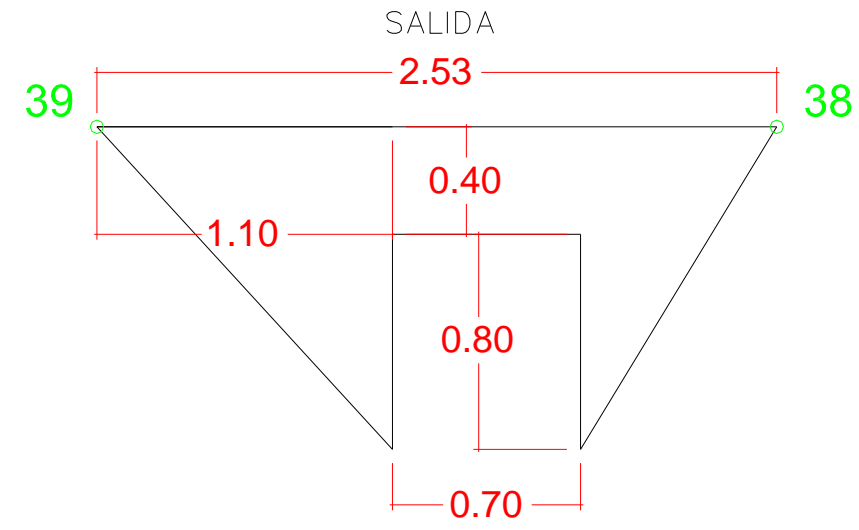
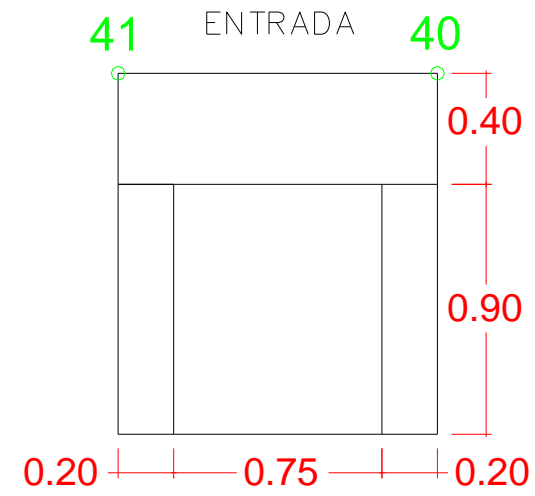
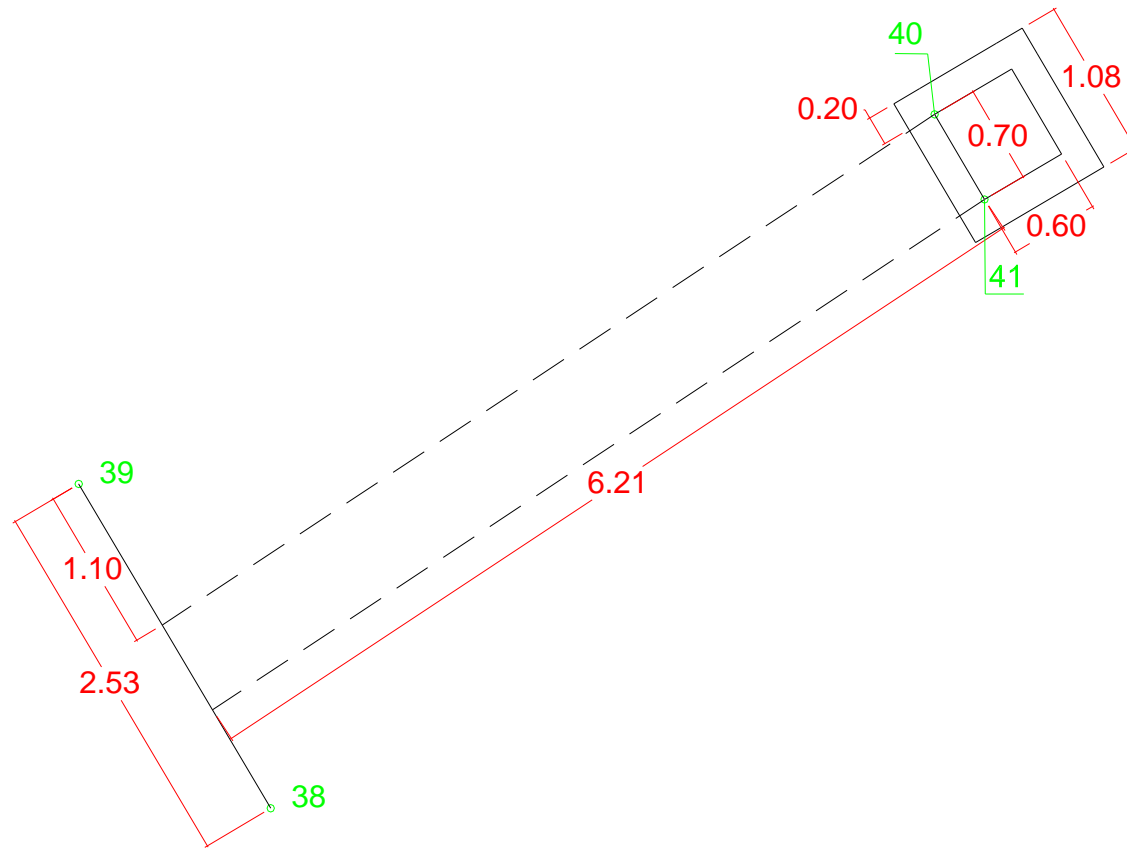
PUNTO	X	Y	Z
42	739849,642	4707838,768	747,090
43	739848,844	4707840,017	747,110
44	739854,255	4707842,966	747,149
45	739854,607	4707842,339	747,202

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
42	739742,437	4707628,673	747,094
43	739741,639	4707629,922	747,114
44	739747,051	4707632,871	747,153
45	739747,403	4707632,244	747,206





**PK 460+100**

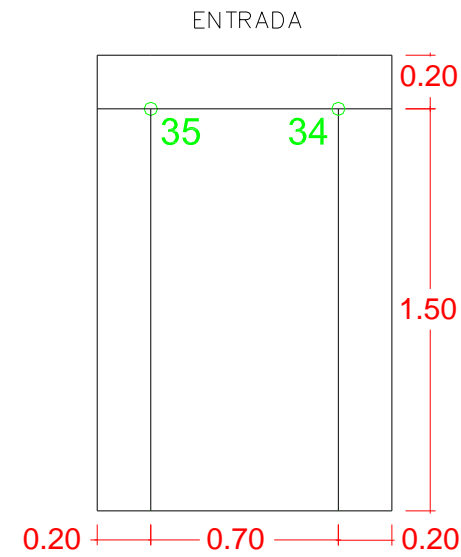
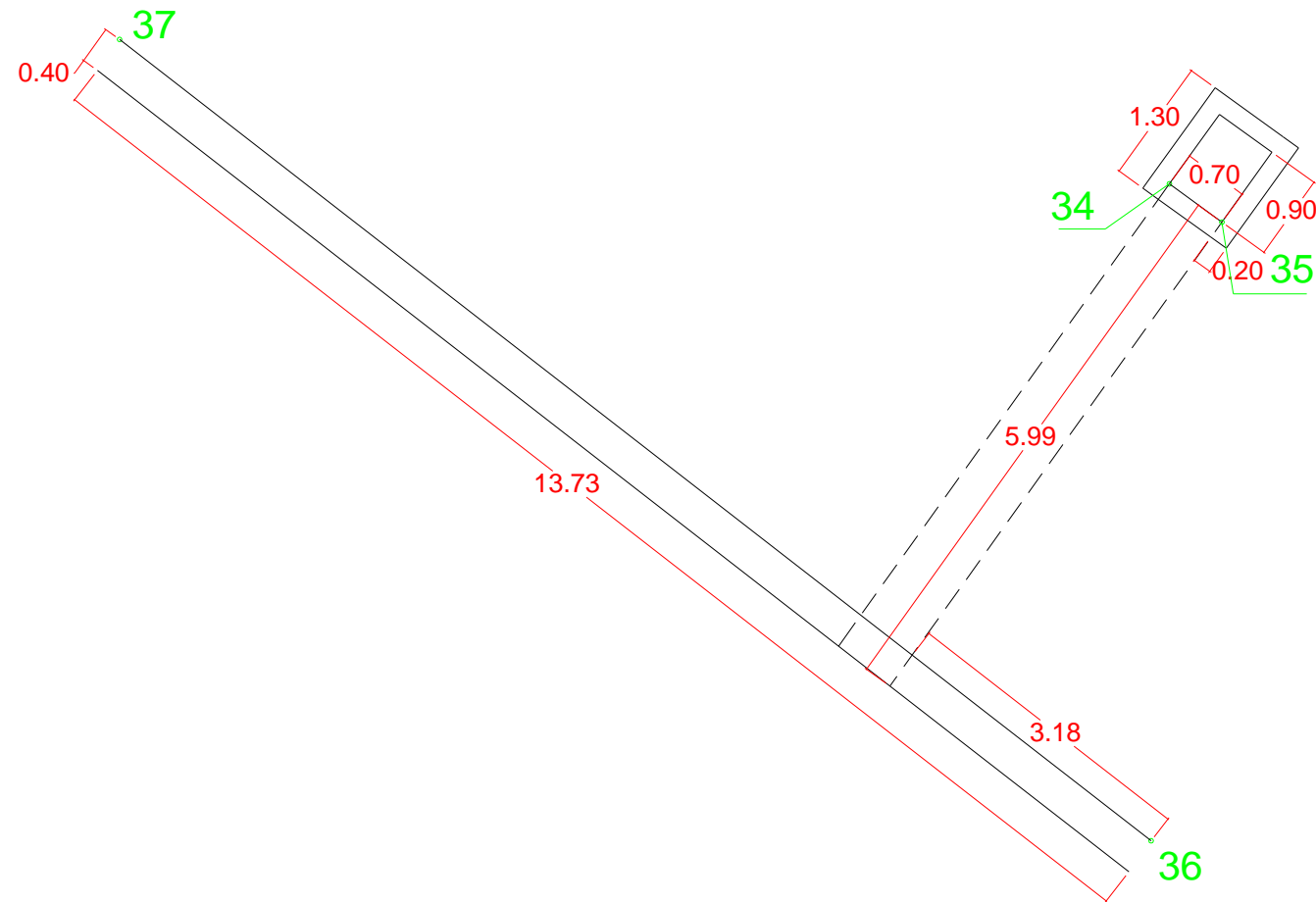


PUNTO	X	Y	Z
38	739804,682	4707911,482	745,598
39	739803,393	4707913,658	745,476
40	739809,138	4707916,138	745,621
41	739809,451	4707915,604	745,617

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
38	739697,478	4707701,389	745,601
39	739696,189	4707703,565	745,479
40	739701,934	4707706,045	745,624
41	739702,247	4707705,511	745,620

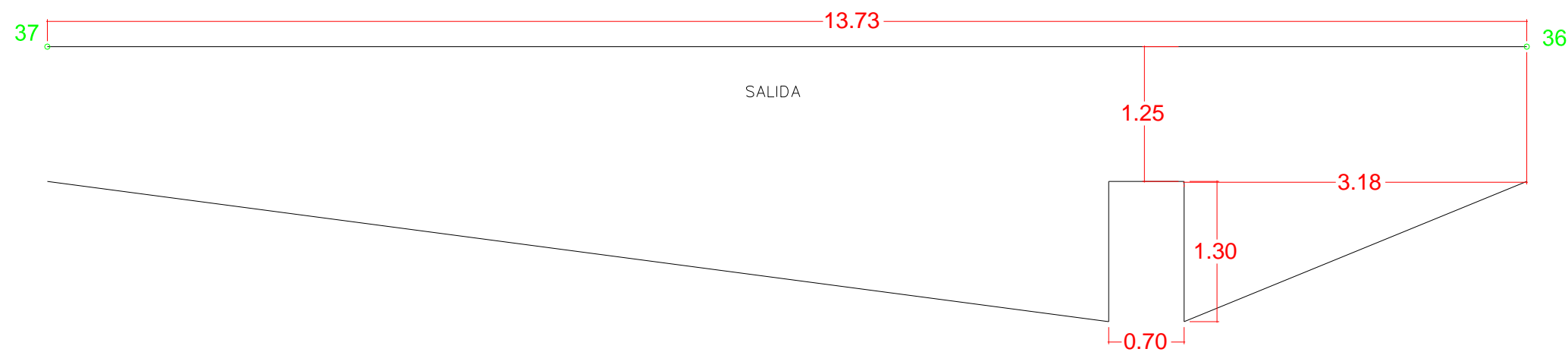


**PK 460+800**

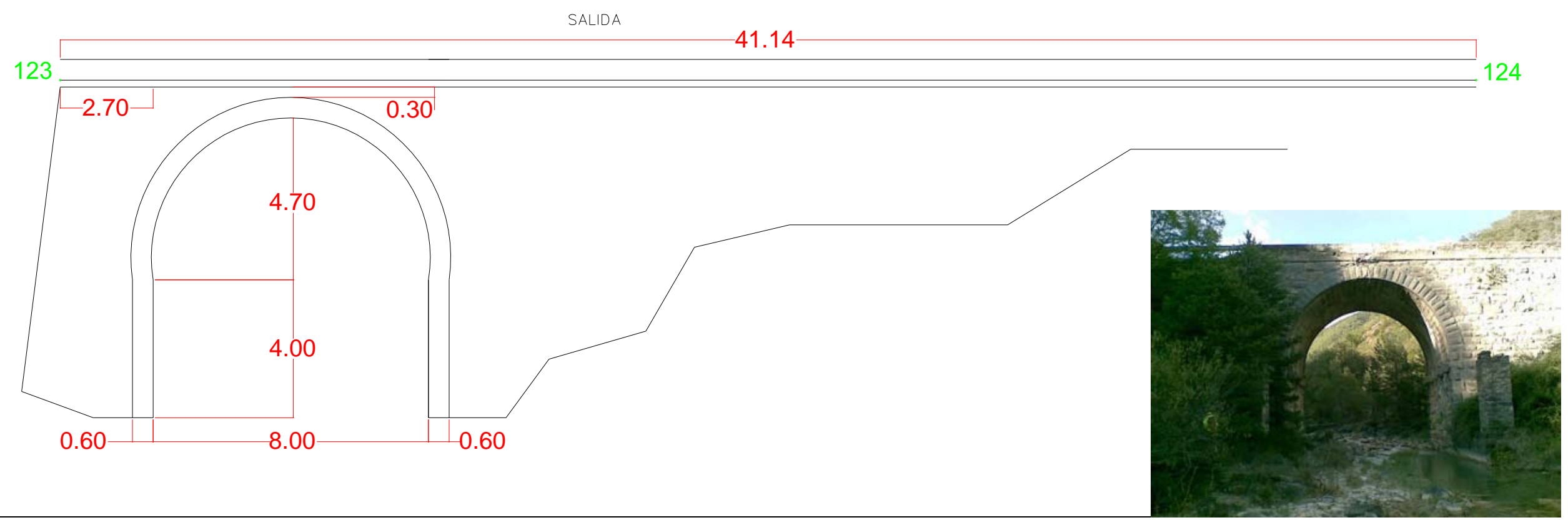
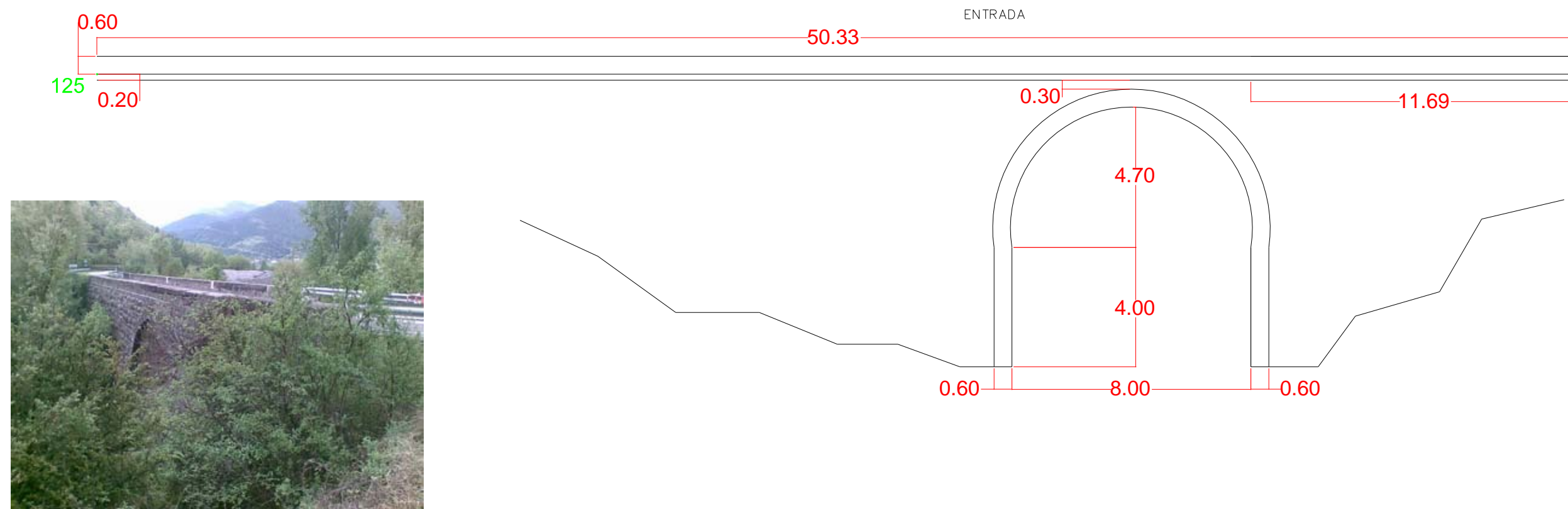


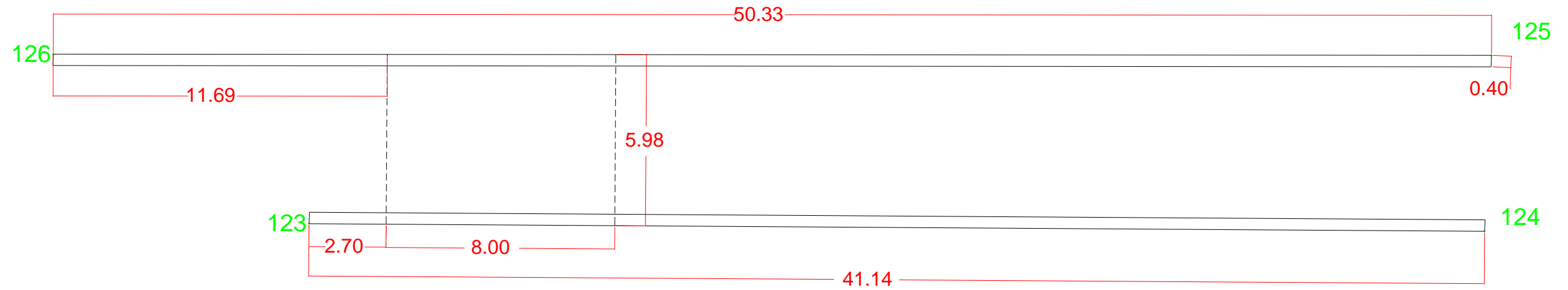
PUNTO	X	Y	Z
34	739360,887	4708085,854	750,894
35	739361,439	4708085,451	750,826
36	739360,695	4708078,951	751,007
37	739349,855	4708087,371	751,089

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
34	739253,677	4707875,775	750,897
35	739254,229	4707875,372	750,829
36	739253,484	4707868,872	751,010
37	739242,644	4707877,292	751,092



**PK 461+000**

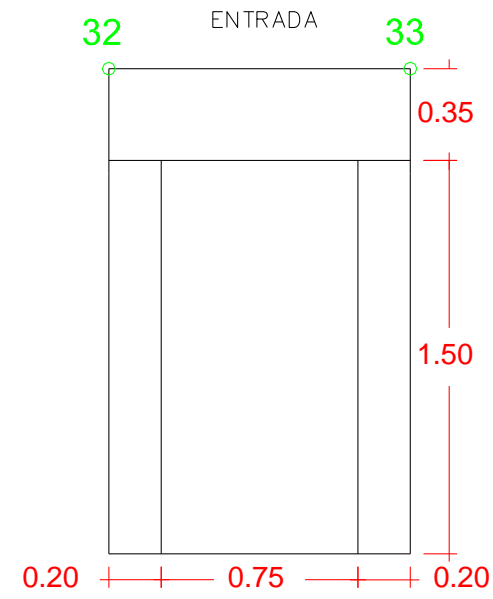
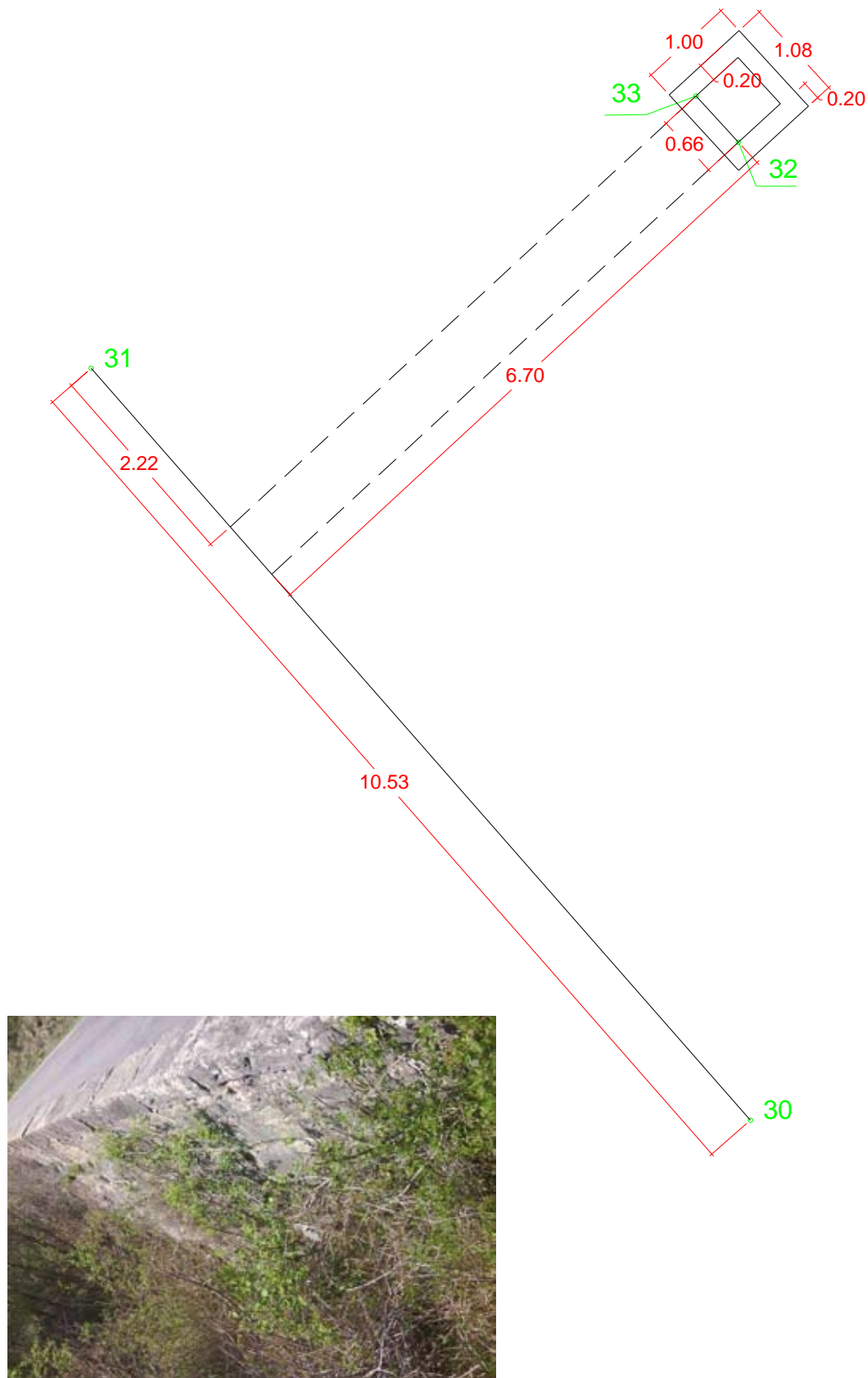




PUNTO	X	Y	Z
123	739675,955	4708096,692	747,978
124	739709,586	4708072,994	746,875
125	739713,293	4708077,902	747,149
126	739671,987	4708106,667	748,356

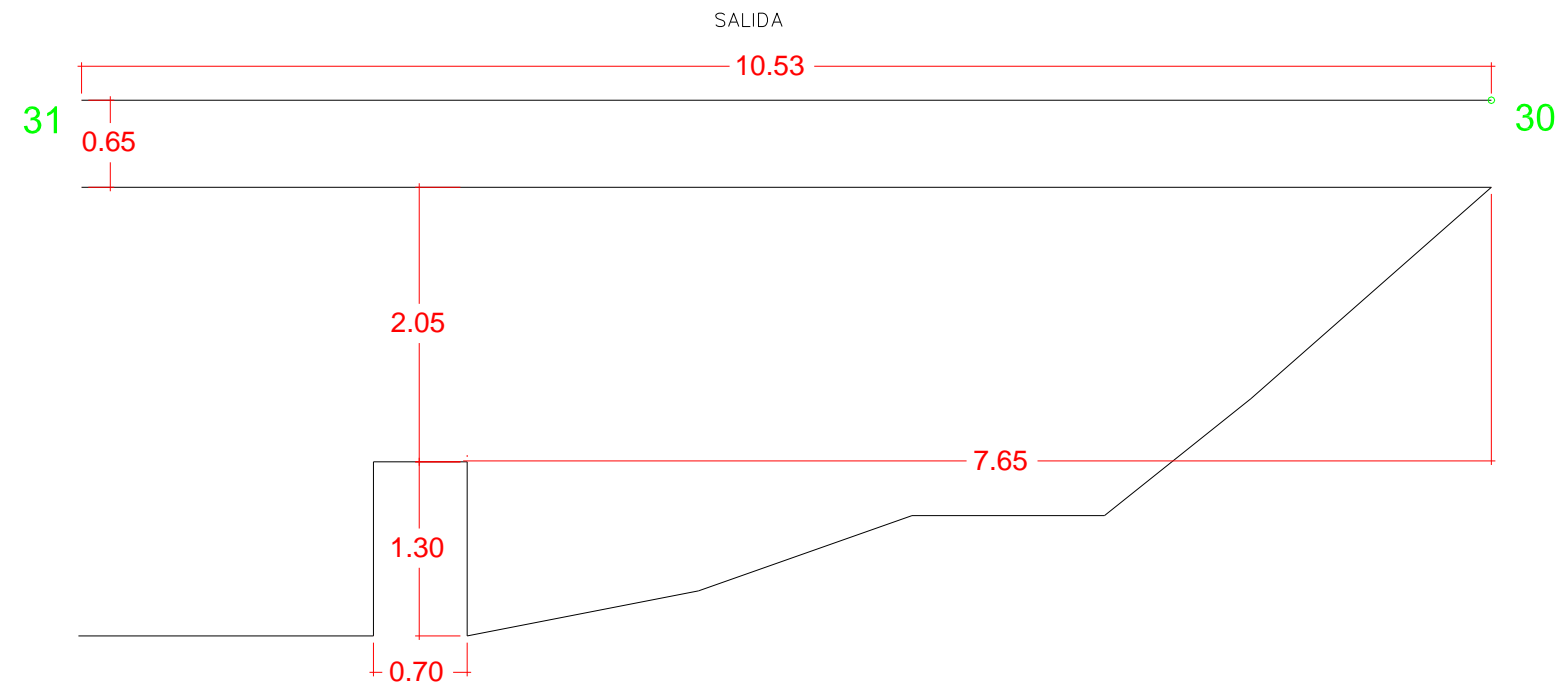
ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
123	739568,752	4707886,606	747,981
124	739602,383	4707862,907	746,878
125	739606,091	4707867,815	747,152
126	739564,784	4707896,582	748,359

**PK 461+230**



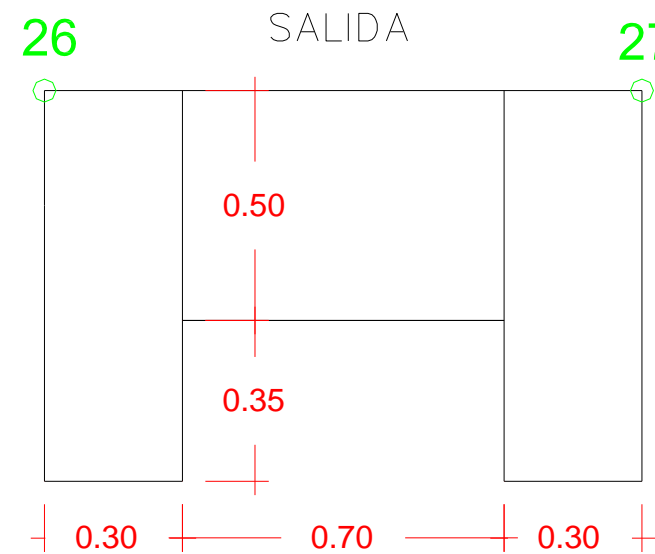
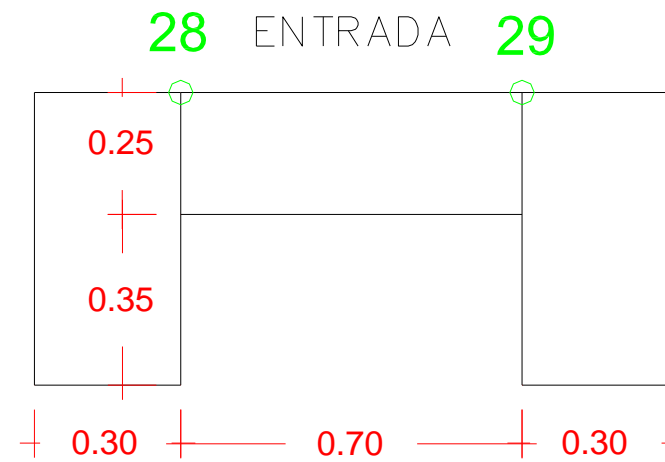
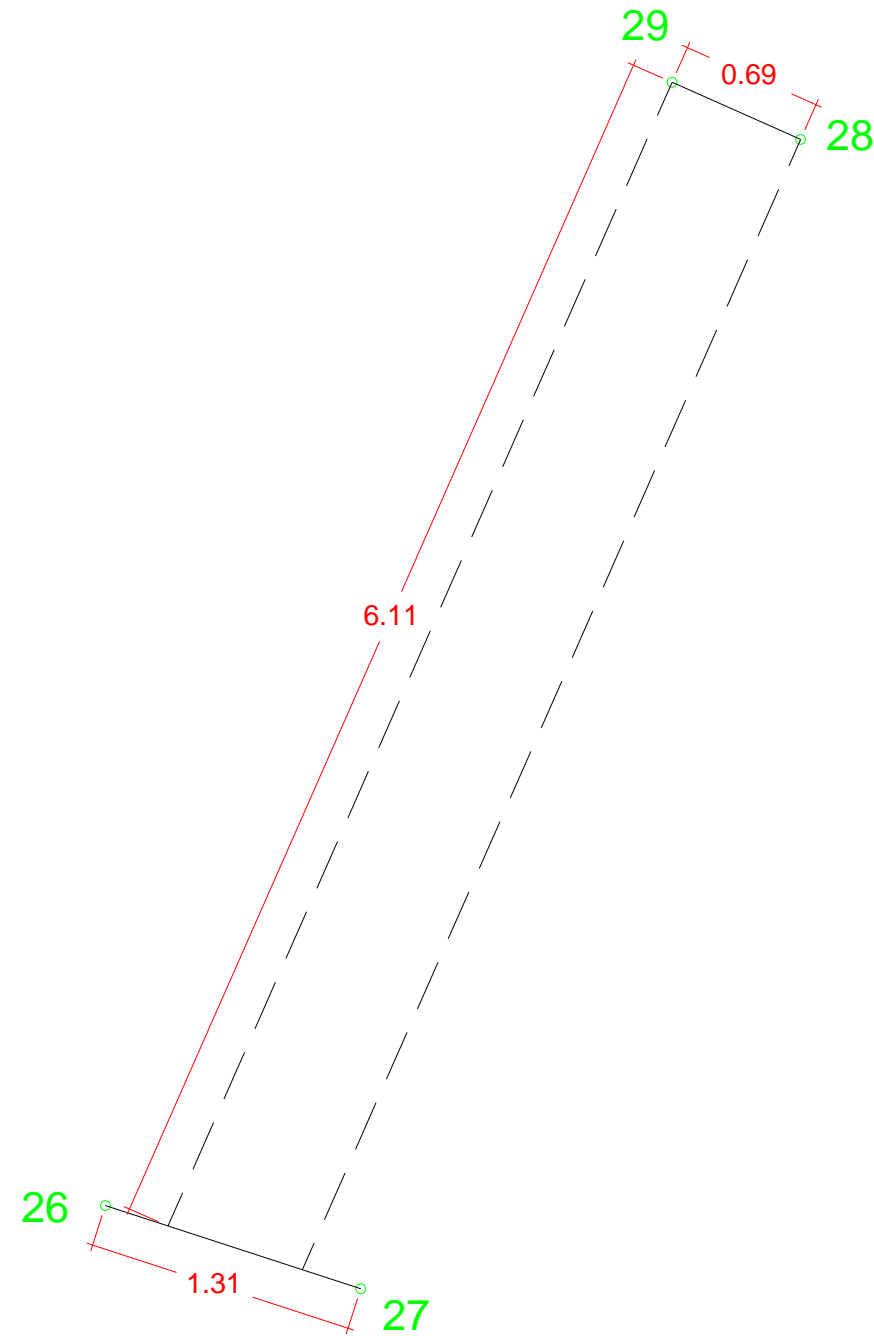
PUNTO	X	Y	Z
30	739076,456	4708269,021	758,705
31	739069,508	4708276,940	758,702
32	739076,330	4708279,320	758,622
33	739075,883	4708279,808	758,637

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
32	738969,117	4708069,252	758,625
30	738969,243	4708058,953	758,708
31	738962,295	4708066,872	758,705
33	738968,670	4708069,740	758,640





**PK 461+420**

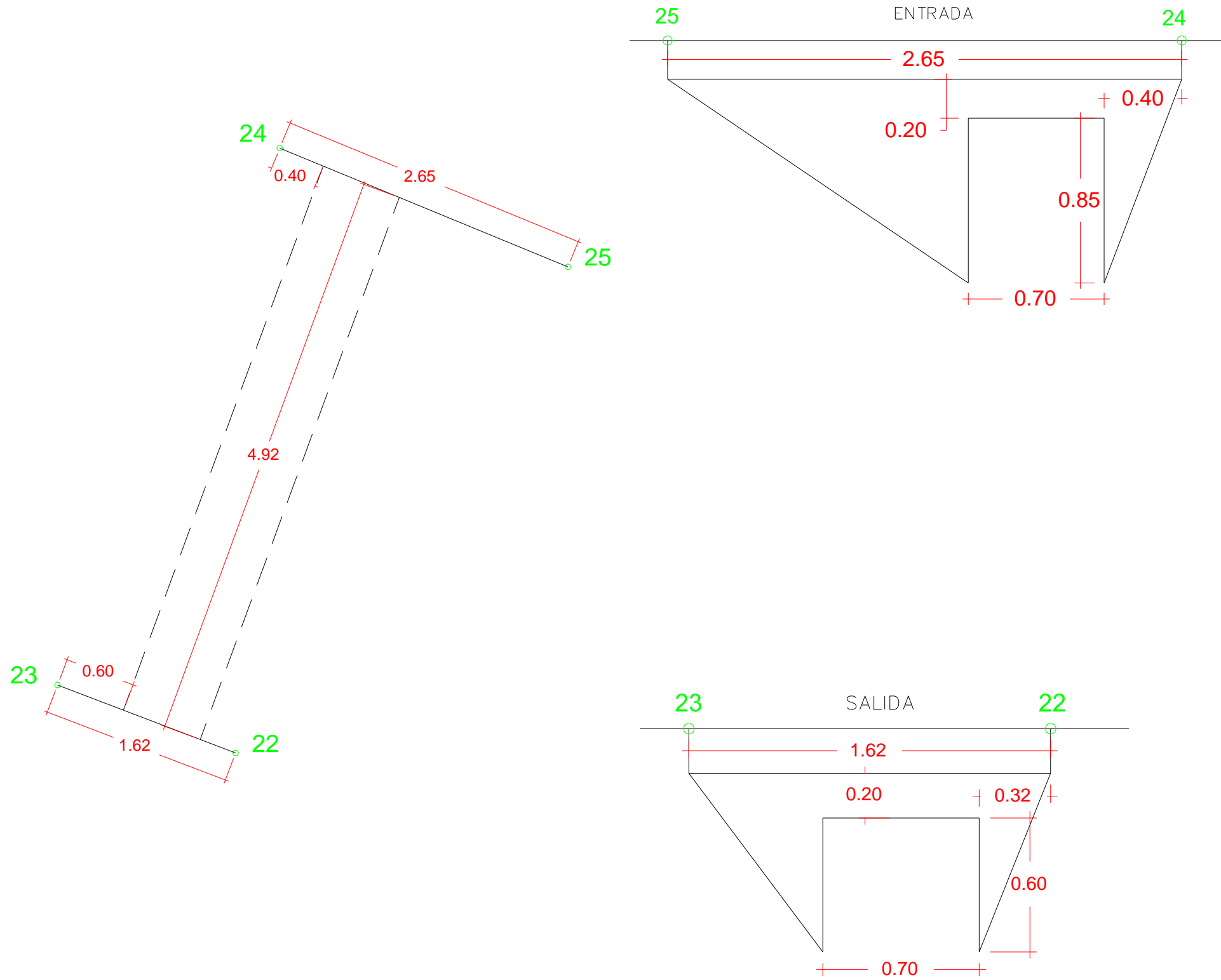


PUNTO	X	Y	Z
26	738834,041	4708401,761	758,227
27	738835,289	4708401,355	758,294
28	738837,438	4708406,969	758,274
29	738836,810	4708407,248	758,229

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
26	738726,825	4708191,701	758,230
27	738728,073	4708191,295	758,297
28	738730,222	4708196,909	758,277
29	738729,594	4708197,188	758,232



**PK 461+500**



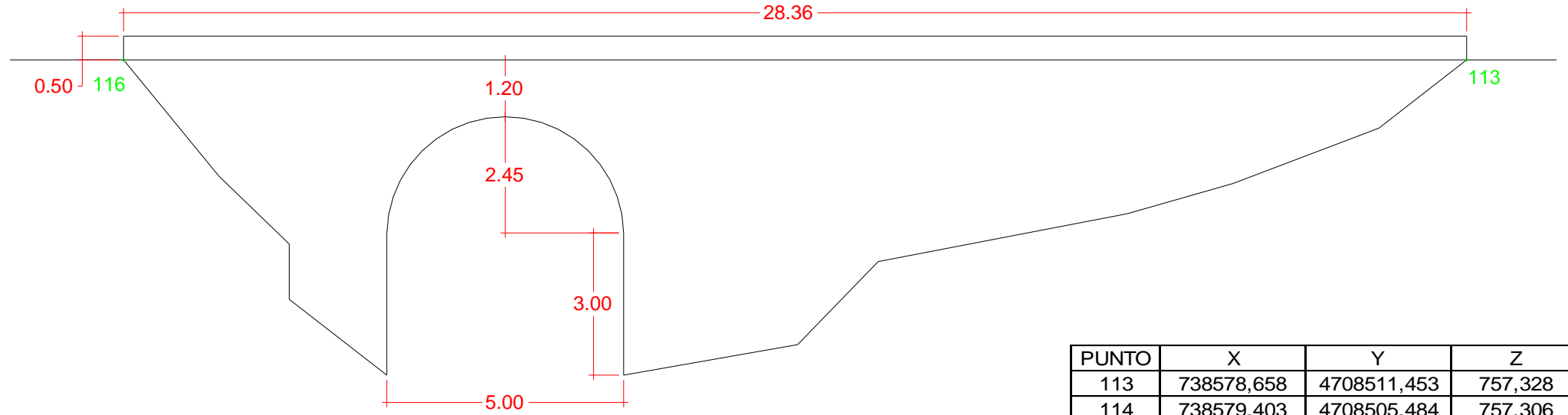
PUNTO	X	Y	Z
22	738771,249	4708427,459	757,073
23	738769,733	4708428,037	757,071
24	738771,625	4708432,608	756,993
25	738774,078	4708431,597	757,094

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
22	738664,032	4708217,401	757,075
23	738662,516	4708217,979	757,073
24	738664,409	4708222,550	756,995
25	738666,862	4708221,539	757,096

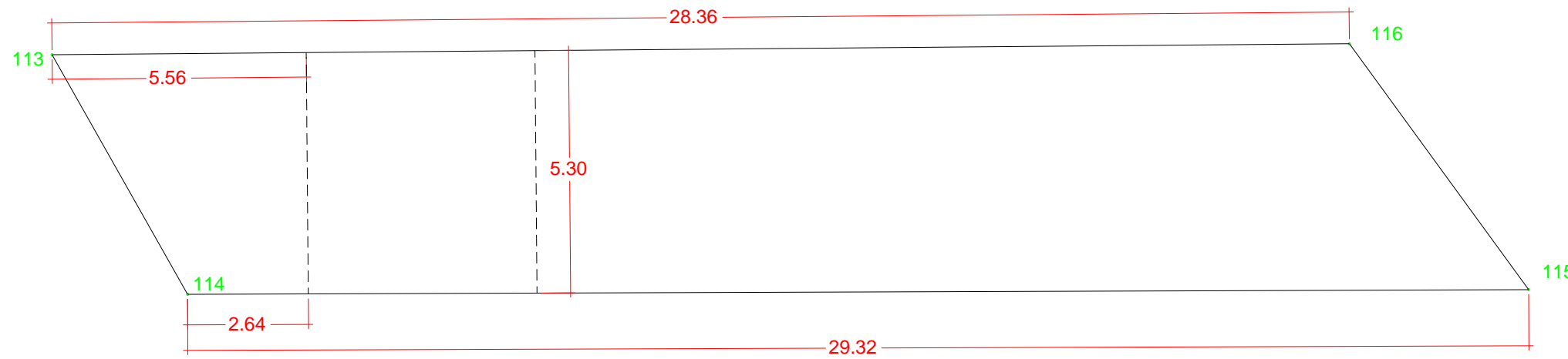


**PK 461+650**

ENTRADA

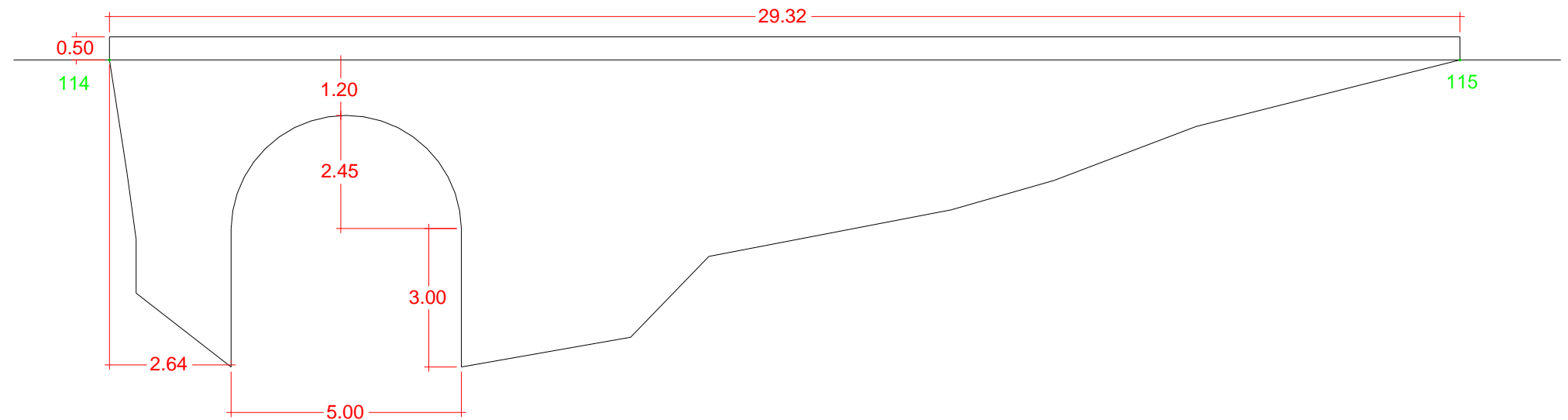


PUNTO	X	Y	Z
113	738578,658	4708511,453	757,328
114	738579,403	4708505,484	757,306
115	738606,547	4708494,408	756,364
116	738604,970	4708500,869	756,502



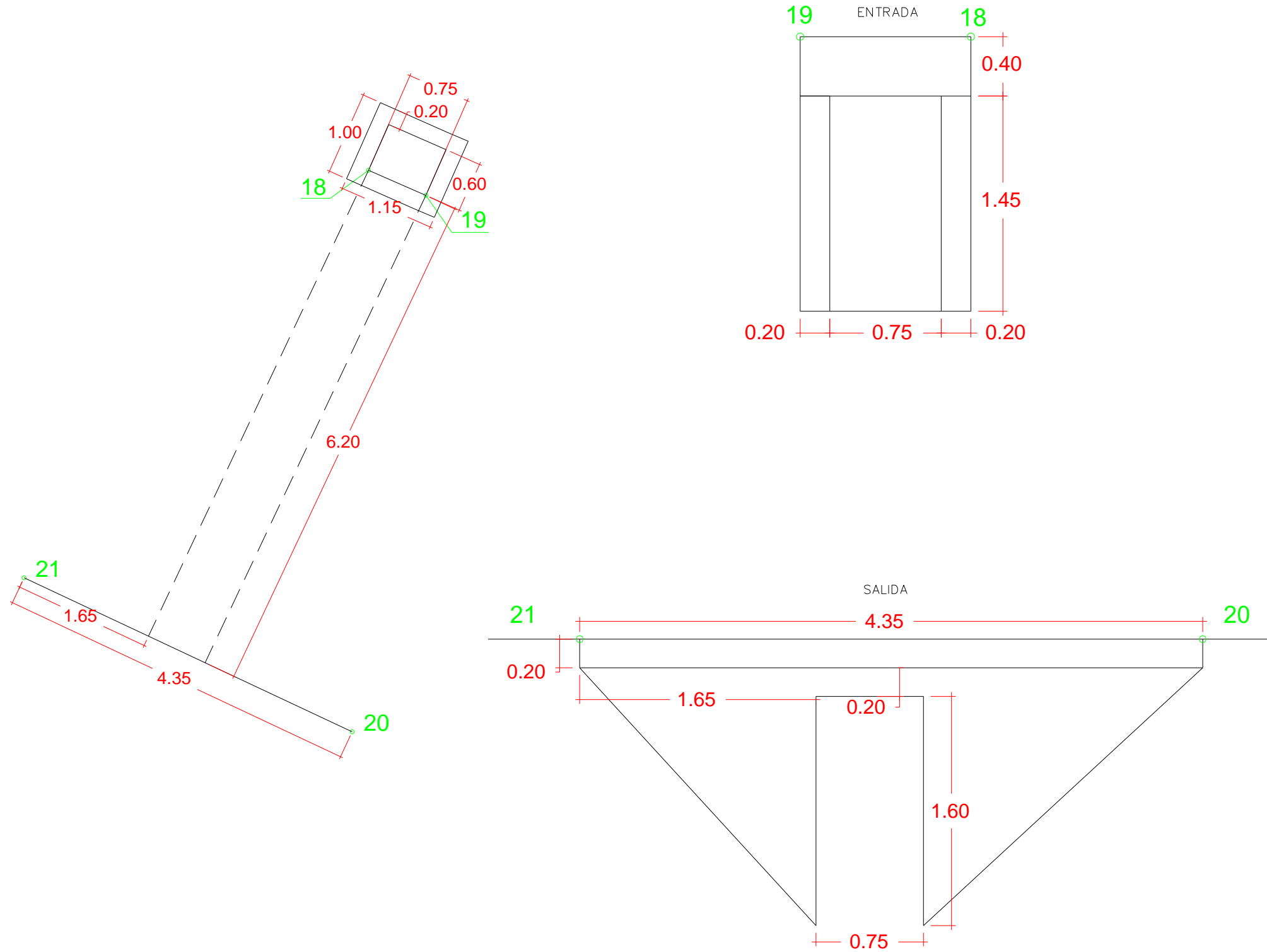
ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
113	738471,439	4708301,401	757,330
114	738472,184	4708295,432	757,308
115	738499,328	4708284,355	756,366
116	738497,751	4708290,816	756,504

SALIDA





**PK 462+100**



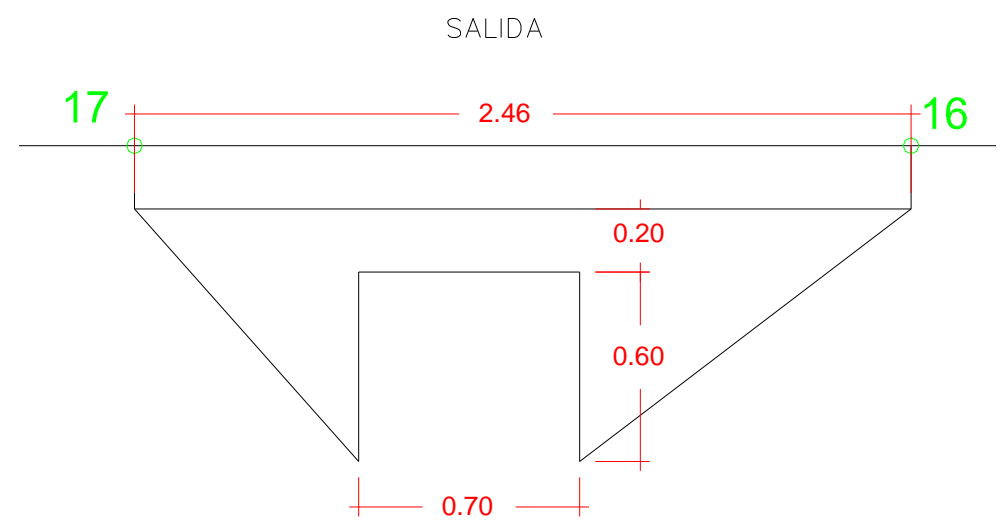
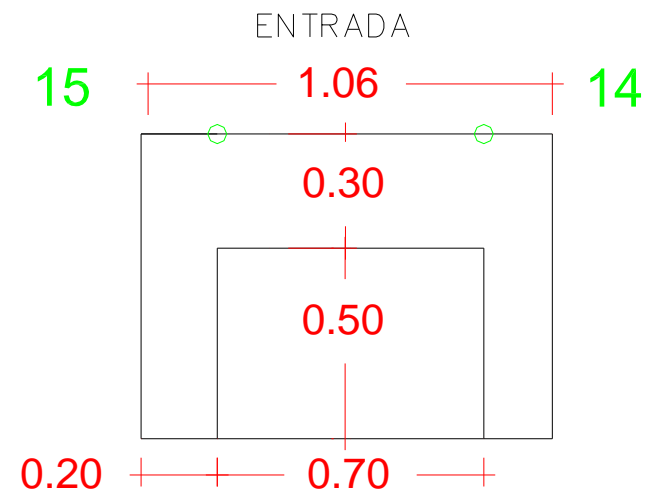
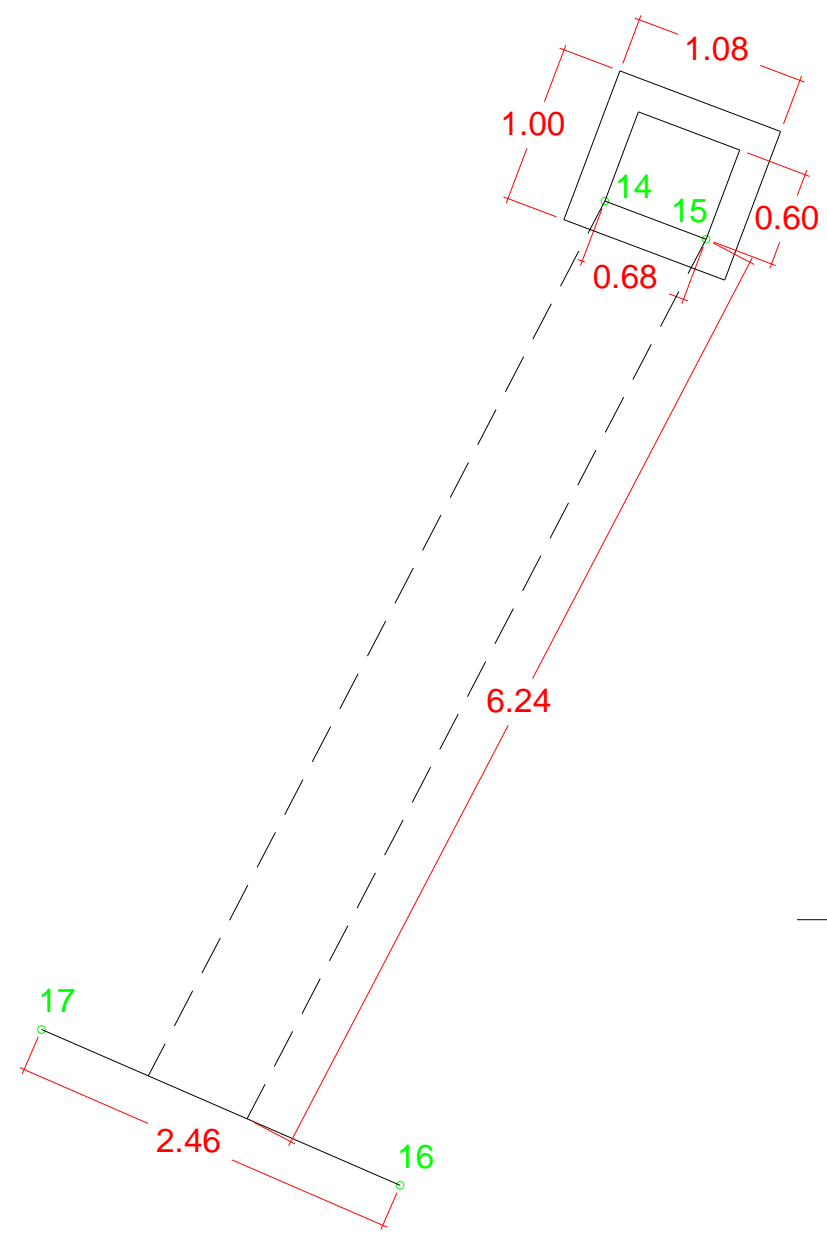
PUNTO	X	Y	Z
18	738289,743	4708726,275	762,57
19	738290,431	4708725,974	762,60
20	738289,547	4708719,536	762,59
21	738285,609	4708721,384	762,58

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
19	738183,210	4708515,934	762,
18	738182,522	4708516,235	762,
20	738182,326	4708509,495	762,
21	738178,388	4708511,344	762,





**PK 462+320**



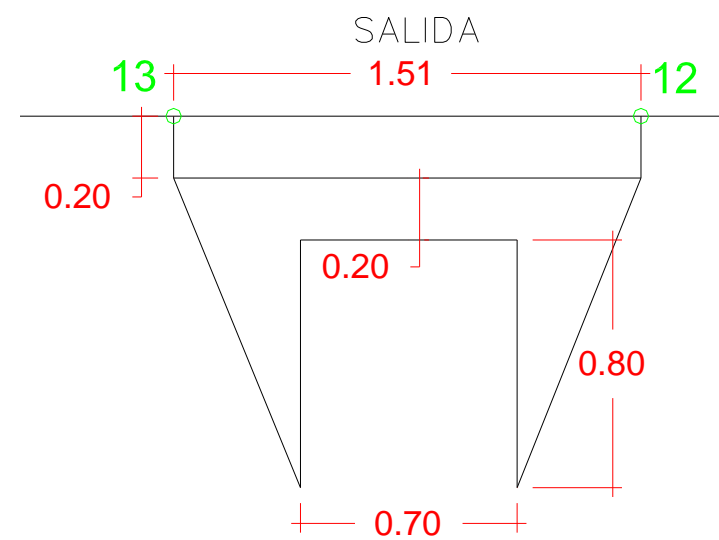
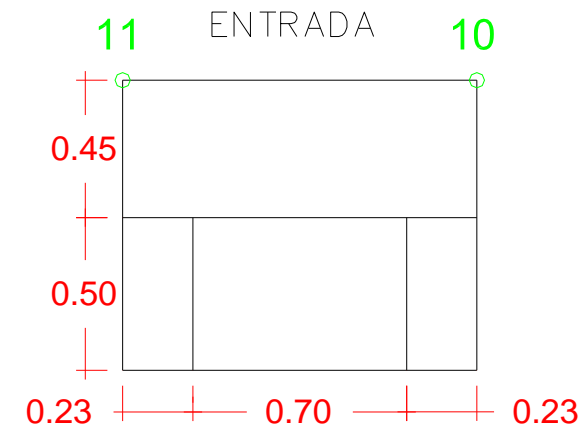
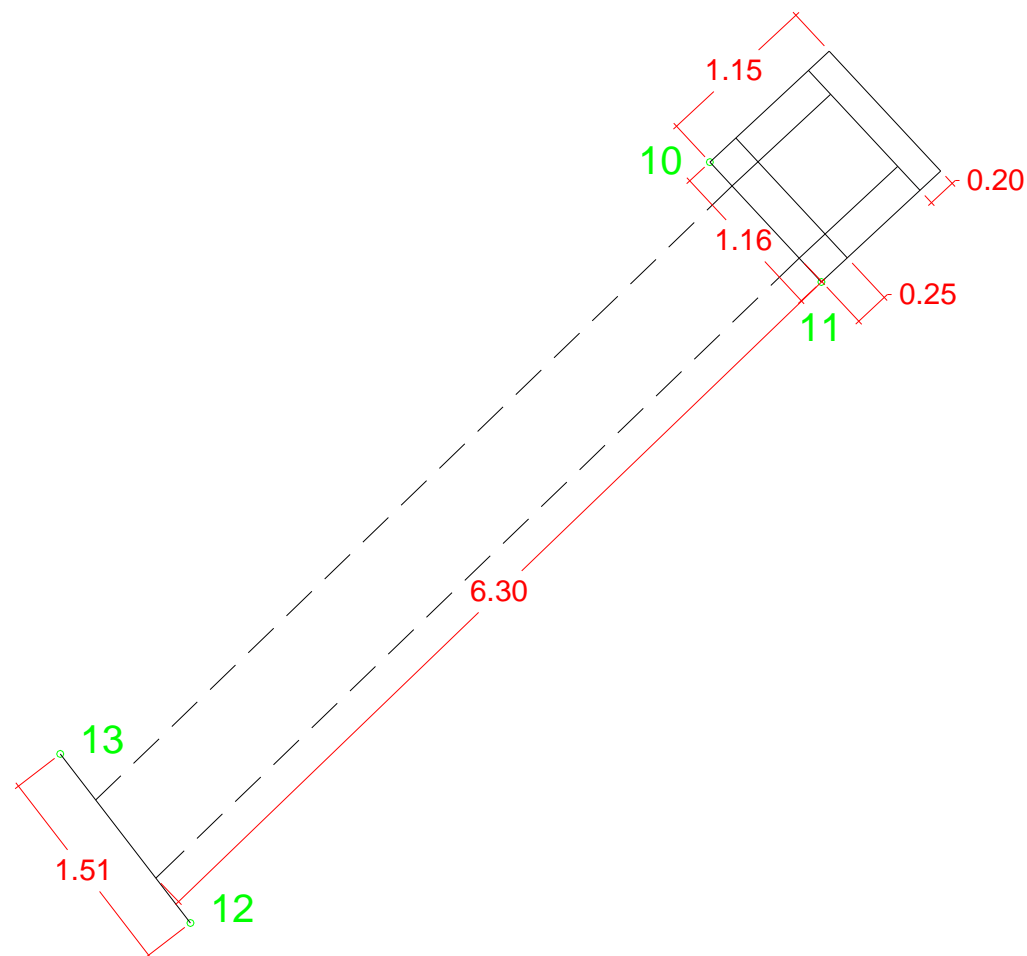
PUNTO	X	Y	Z
14	738143,691	4708793,540	765,981
15	738144,328	4708793,300	765,987
16	738142,403	4708787,349	765,950
17	738140,146	4708788,329	765,992

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
14	738036,468	4708583,504	765,983
15	738037,105	4708583,264	765,989
16	738035,180	4708577,313	765,952
17	738032,923	4708578,293	765,994



ANEJO Nº 2. CARTOGRAFIA Y TOPOGRAFIA

**PK 462+450**



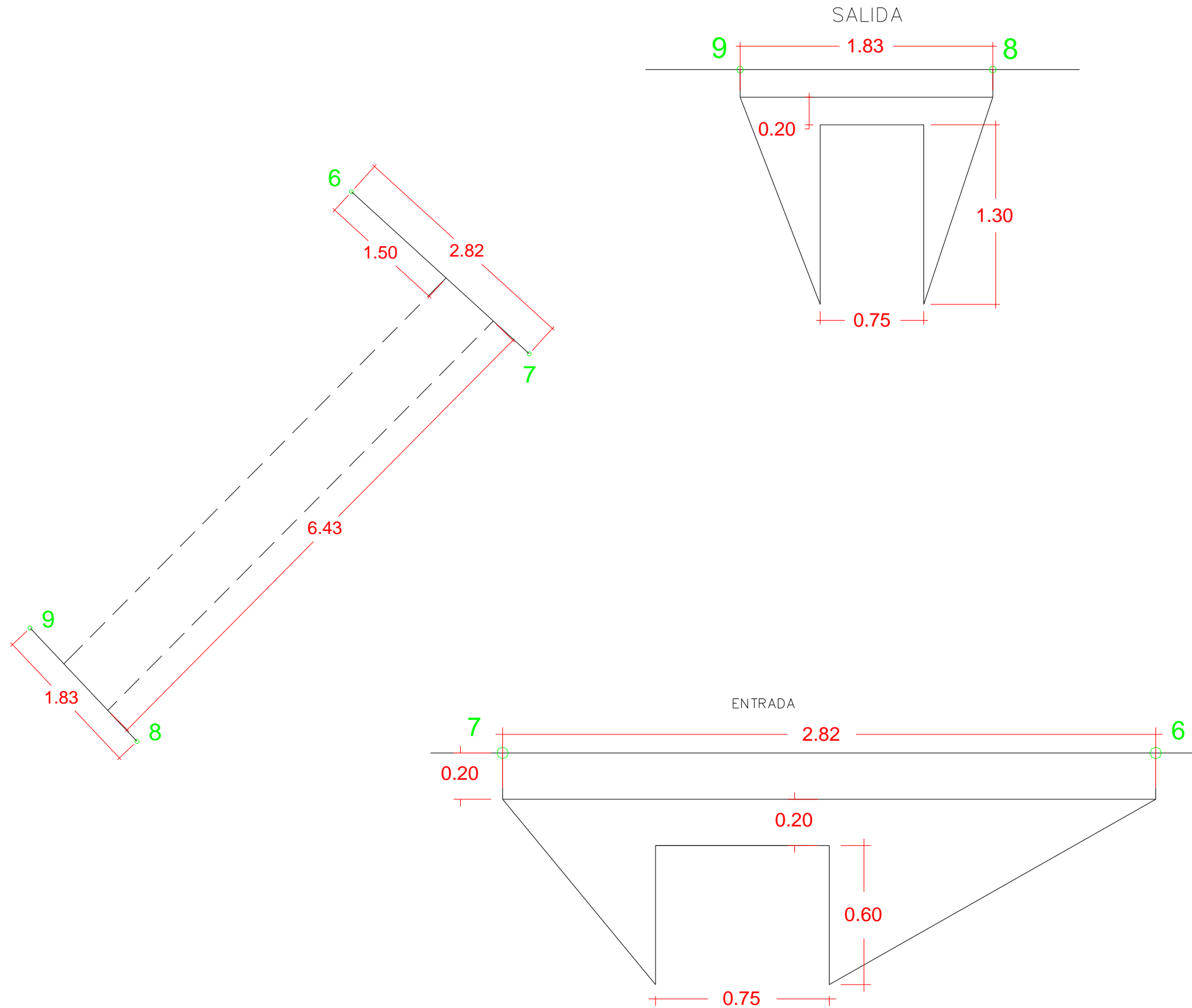
PUNTO	X	Y	Z
10	737965,994	4708881,051	768,192
11	737966,781	4708880,205	768,138
12	737962,328	4708875,682	768,238
13	737961,409	4708876,875	768,374

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
10	737858,769	4708671,021	768,192
11	737859,556	4708670,175	768,140
12	737855,103	4708665,652	768,240
13	737854,184	4708666,845	768,376





**PK 462+600**

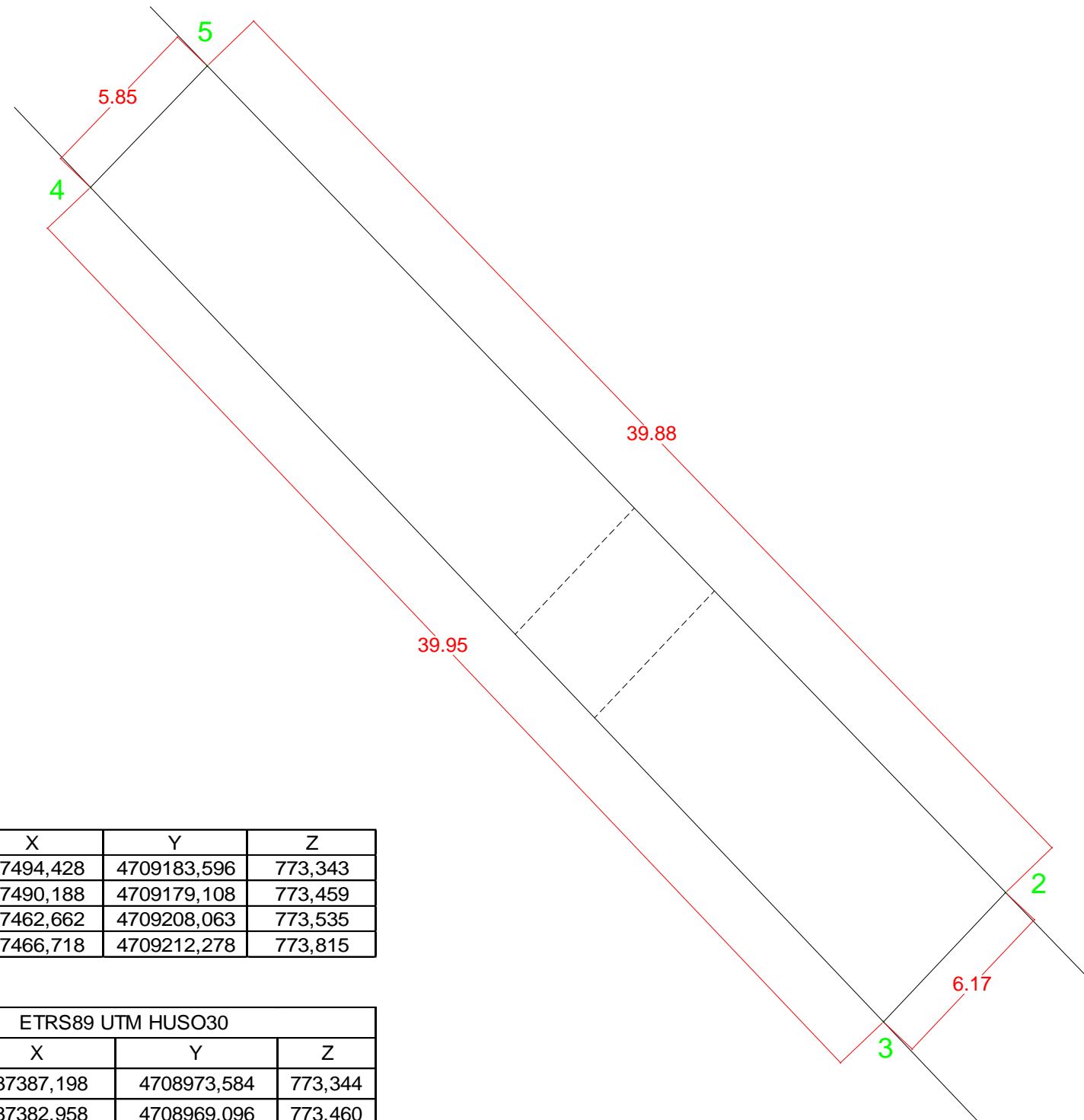


PUNTO	X	Y	Z
6	737866,443	4708987,367	767,917
7	737868,529	4708985,466	767,931
8	737863,925	4708980,918	767,989
9	737862,671	4708982,248	767,980

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
6	737759,218	4708777,342	767,918
7	737761,304	4708775,441	767,932
8	737756,700	4708770,893	767,990
9	737755,446	4708772,223	767,981



**PK 463+100**

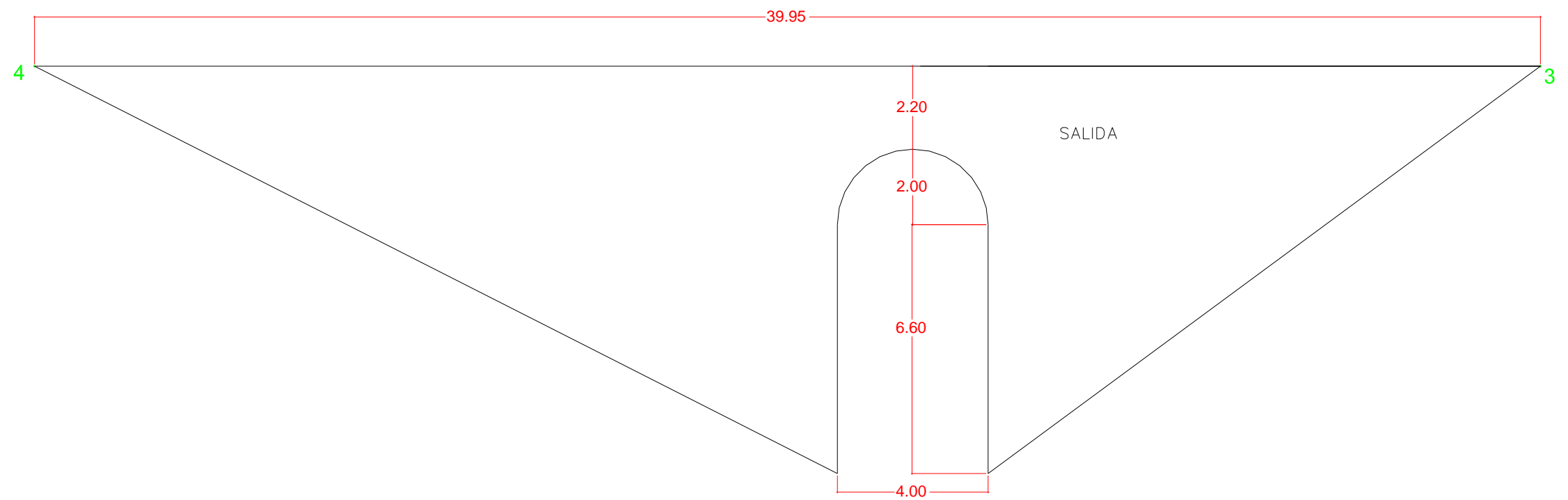
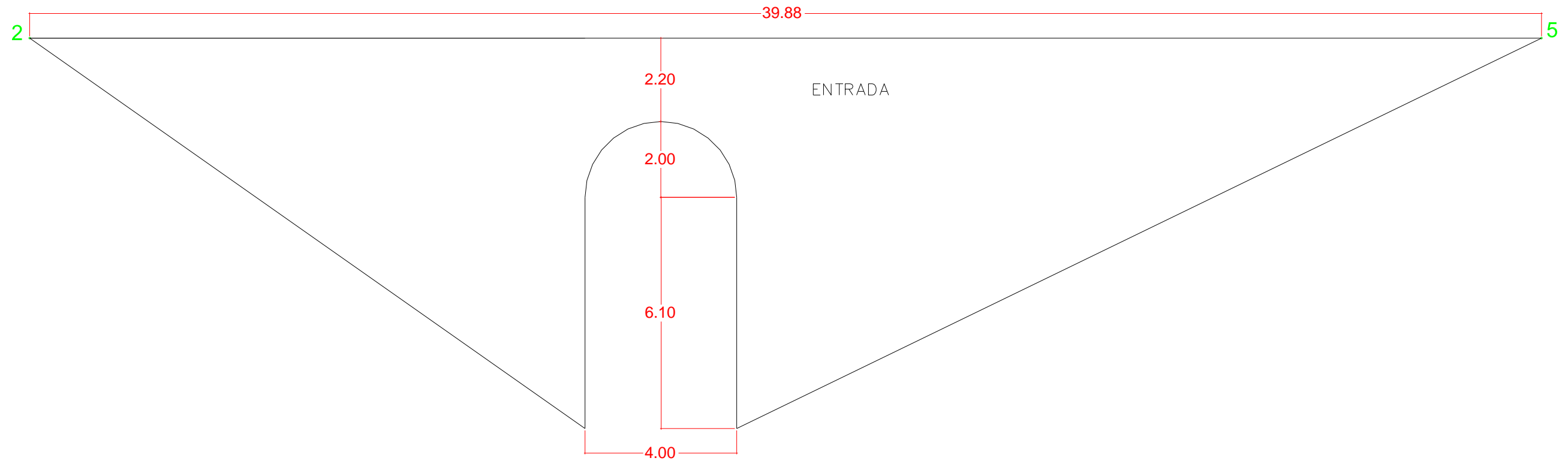


PUNTO	X	Y	Z
2	737494,428	4709183,596	773,343
3	737490,188	4709179,108	773,459
4	737462,662	4709208,063	773,535
5	737466,718	4709212,278	773,815

ETRS89 UTM HUSO30			
PUNTO	X	Y	Z
2	737387,198	4708973,584	773,344
3	737382,958	4708969,096	773,460
4	737355,432	4708998,052	773,536
5	737359,488	4709002,267	773,816







## 5.5.TAQUIMÉTRICOS DE DETALLE

5.5.1. Sistema de referencia ED 50 UTM HUSO 30

P.K. 0+120 Boquilla de entrada al Túnel de Jánovas

Punto	X	Y	Z
5000	748128.54	4706369.33	704.27
5001	748128.73	4706378.79	708.10
5002	748129.40	4706363.33	700.38
5003	748130.16	4706346.89	690.98
5004	748132.63	4706334.84	684.60
5005	748132.69	4706297.91	645.95
5006	748133.11	4706327.49	679.03
5007	748133.16	4706358.91	697.42
5008	748133.75	4706319.87	673.61
5009	748134.75	4706314.71	669.52
5010	748135.17	4706300.16	645.66
5011	748135.21	4706301.10	658.44
5012	748135.23	4706313.27	665.43
5013	748136.05	4706299.58	645.74
5014	748136.18	4706304.77	661.50
5015	748136.60	4706294.82	645.68
5016	748139.42	4706300.74	645.54
5017	748140.96	4706304.03	659.77
5018	748141.15	4706296.10	645.37
5019	748142.00	4706309.11	660.44
5020	748142.55	4706311.13	661.09
5021	748143.51	4706296.30	645.12
5022	748143.62	4706325.61	675.30
5023	748144.13	4706324.88	673.20
5024	748144.29	4706380.49	706.05
5025	748145.02	4706365.68	699.87
5026	748145.49	4706303.60	645.24
5027	748146.21	4706315.02	666.00
5028	748146.74	4706307.23	650.52
5029	748147.60	4706354.70	694.81
5030	748149.10	4706310.48	652.10
5031	748149.56	4706341.09	687.30

Punto	X	Y	Z
5032	748149.68	4706306.13	644.98
5033	748149.94	4706305.29	644.98
5034	748150.54	4706331.42	678.36
5035	748150.88	4706330.47	675.81
5036	748151.18	4706299.48	645.02
5037	748151.42	4706300.98	645.05
5038	748151.59	4706300.48	645.04
5039	748151.63	4706319.35	668.15
5040	748153.45	4706309.80	647.65
5041	748154.21	4706318.70	668.50
5042	748154.86	4706311.95	648.50
5043	748157.11	4706323.55	671.21
5044	748157.98	4706367.70	696.55
5045	748158.55	4706314.76	648.84
5046	748159.00	4706339.28	683.32
5047	748159.24	4706312.23	647.27
5048	748159.51	4706337.62	680.35
5049	748159.70	4706309.46	644.61
5050	748160.37	4706330.03	674.43
5051	748161.75	4706378.64	698.59
5052	748162.33	4706311.49	644.52
5053	748162.77	4706310.99	644.51
5054	748163.50	4706346.46	686.28
5055	748163.75	4706318.65	650.72
5056	748164.55	4706345.35	682.45
5057	748164.92	4706306.94	644.52
5058	748165.30	4706312.00	644.46
5059	748165.52	4706305.29	644.33
5060	748165.65	4706306.49	644.45
5061	748165.68	4706316.64	649.03
5062	748166.06	4706297.96	639.03
5063	748166.40	4706331.56	674.84
5064	748167.22	4706337.99	676.47
5065	748167.32	4706303.08	642.25
5066	748167.83	4706339.28	676.37
5067	748168.41	4706323.85	651.00
5068	748168.89	4706338.17	676.32
5069	748169.49	4706356.82	686.79

Punto	X	Y	Z
5070	748170.02	4706355.61	685.57
5071	748170.32	4706349.94	681.84
5072	748170.37	4706322.51	649.10
5073	748170.43	4706321.11	648.65
5074	748170.77	4706328.52	650.85
5075	748170.92	4706380.61	695.12
5076	748171.30	4706326.76	653.08
5077	748172.37	4706347.03	678.42
5078	748172.52	4706324.40	648.39
5079	748172.91	4706333.80	657.86
5080	748173.00	4706339.46	660.31
5081	748173.05	4706325.65	649.27
5082	748173.18	4706369.48	690.27
5083	748173.19	4706327.52	652.77
5084	748173.32	4706330.26	651.08
5085	748174.15	4706353.08	680.66
5086	748174.70	4706326.14	648.98
5087	748175.68	4706346.24	667.90
5088	748175.70	4706331.32	650.21
5089	748176.01	4706358.15	685.05
5090	748176.08	4706323.46	649.42
5091	748176.39	4706324.85	651.03
5092	748176.58	4706305.90	640.57
5093	748176.67	4706344.74	660.67
5094	748176.83	4706327.75	650.69
5095	748177.66	4706336.97	648.32
5096	748177.78	4706325.71	649.88
5097	748177.78	4706353.76	679.49
5098	748177.88	4706300.26	637.01
5099	748178.67	4706358.07	681.02
5100	748178.71	4706328.70	651.77
5101	748179.86	4706354.64	679.44
5102	748179.88	4706333.10	648.62
5103	748179.92	4706364.91	684.85
5104	748179.97	4706353.62	676.53
5105	748180.05	4706318.47	644.16
5106	748180.17	4706314.22	644.17
5107	748180.46	4706380.57	690.98
5108	748180.72	4706326.84	650.17

Punto	X	Y	Z
5109	748181.29	4706341.24	647.71
5110	748181.37	4706364.09	682.76
5111	748181.62	4706319.96	644.00
5112	748181.72	4706319.30	644.12
5113	748181.82	4706324.16	649.20
5114	748182.40	4706337.28	648.19
5115	748183.38	4706359.89	682.14
5116	748183.59	4706353.91	679.80
5117	748183.90	4706330.48	647.31
5118	748184.03	4706313.60	643.94
5119	748184.06	4706315.35	644.08
5120	748184.27	4706314.25	644.07
5121	748184.32	4706343.80	648.27
5122	748184.38	4706325.39	646.11
5123	748184.44	4706369.11	684.03
5124	748184.56	4706314.70	644.08
5125	748184.71	4706333.40	645.75
5126	748184.90	4706377.92	687.97
5127	748185.12	4706309.39	641.51
5128	748185.20	4706331.50	644.79
5129	748185.35	4706311.89	642.04
5130	748185.57	4706350.76	653.92
5131	748185.71	4706333.30	645.35
5132	748185.82	4706359.40	684.44
5133	748185.90	4706341.22	648.27
5134	748186.14	4706371.17	684.39
5135	748186.49	4706300.19	636.09
5136	748186.75	4706363.25	682.70
5137	748186.78	4706322.17	643.99
5138	748187.27	4706328.79	644.09
5139	748187.43	4706324.96	644.60
5140	748187.72	4706369.23	684.19
5141	748188.19	4706368.29	685.57
5142	748188.42	4706360.92	684.44
5143	748188.93	4706323.87	643.76
5144	748189.07	4706326.92	643.34
5145	748189.14	4706364.82	685.92
5146	748189.28	4706333.73	645.17
5147	748189.92	4706315.99	641.78

Punto	X	Y	Z
5148	748190.00	4706359.53	683.68
5149	748190.02	4706318.48	643.96
5150	748190.42	4706367.22	684.85
5151	748190.57	4706323.71	644.04
5152	748190.66	4706339.05	649.54
5153	748190.84	4706353.14	656.85
5154	748191.24	4706378.04	686.43
5155	748191.29	4706361.63	685.82
5156	748191.39	4706330.26	645.22
5157	748191.45	4706360.80	683.98
5158	748191.64	4706363.98	686.59
5159	748191.91	4706336.58	647.52
5160	748191.92	4706324.57	642.57
5161	748192.04	4706354.67	671.87
5162	748192.42	4706327.05	644.30
5163	748192.60	4706315.95	640.20
5164	748192.67	4706366.02	687.41
5165	748192.70	4706341.12	650.90
5166	748192.88	4706364.50	686.18
5167	748192.98	4706369.55	685.26
5168	748193.16	4706368.84	687.87
5169	748193.36	4706300.43	635.50
5170	748193.82	4706382.58	687.66
5171	748194.00	4706325.19	644.04
5172	748194.25	4706318.26	639.19
5173	748194.26	4706325.34	643.97
5174	748194.40	4706312.42	639.31
5175	748194.49	4706324.61	644.04
5176	748194.50	4706324.78	644.05
5177	748194.86	4706365.91	688.32
5178	748195.30	4706368.08	688.53
5179	748195.96	4706351.26	657.47
5180	748196.51	4706314.18	637.45
5181	748196.70	4706335.24	648.70
5182	748196.79	4706307.44	637.67
5183	748196.94	4706353.28	658.75
5184	748196.97	4706353.25	658.75
5185	748197.04	4706316.51	639.77

Punto	X	Y	Z
5186	748197.24	4706321.02	643.94
5187	748199.75	4706322.45	643.89
5188	748199.76	4706360.13	685.15
5189	748199.90	4706299.44	634.00
5190	748199.98	4706312.64	637.57
5191	748200.02	4706375.33	688.73
5192	748200.21	4706308.12	636.22
5193	748200.39	4706344.33	654.86
5194	748200.45	4706329.43	645.08
5195	748201.23	4706304.07	634.92
5196	748201.37	4706315.39	639.61
5197	748201.68	4706384.84	691.75
5198	748201.80	4706328.35	644.01
5199	748201.87	4706327.53	644.09
5200	748201.98	4706305.93	636.09
5201	748202.33	4706306.28	637.93
5202	748202.41	4706311.41	637.59
5203	748202.60	4706308.85	636.83
5204	748202.74	4706321.42	643.62
5205	748202.88	4706308.38	638.06
5206	748202.97	4706348.77	657.74
5207	748203.14	4706322.18	643.74
5208	748203.72	4706366.99	687.71
5209	748203.76	4706336.81	651.23
5210	748204.31	4706356.84	670.22
5211	748204.33	4706305.65	637.93
5212	748204.70	4706339.86	653.12
5213	748204.81	4706305.19	635.98
5214	748204.89	4706355.74	662.11
5215	748205.15	4706307.79	638.16
5216	748205.74	4706365.10	687.19
5217	748206.56	4706362.21	680.29
5218	748206.59	4706377.82	690.47
5219	748207.01	4706305.57	635.55
5220	748207.75	4706372.94	689.59
5221	748208.58	4706325.26	643.89
5222	748208.99	4706342.77	652.19
5223	748209.19	4706316.97	642.79



Punto	X	Y	Z
5224	748209.22	4706345.24	656.48
5225	748209.99	4706303.13	634.45
5226	748210.26	4706330.20	644.04
5227	748211.30	4706323.93	643.95
5228	748211.50	4706318.26	643.68
5229	748212.06	4706382.57	693.03
5230	748212.49	4706347.11	657.06
5231	748213.22	4706363.54	669.71
5232	748213.58	4706370.20	681.47
5233	748214.00	4706326.11	643.85
5234	748214.06	4706332.03	643.73
5235	748214.15	4706339.40	648.77
5236	748214.17	4706373.84	687.24
5237	748214.23	4706331.31	644.03
5238	748215.99	4706319.60	643.64
5239	748216.18	4706345.88	654.50
5240	748216.80	4706368.24	674.21
5241	748217.00	4706321.04	643.62
5242	748217.14	4706346.76	657.11
5243	748217.28	4706319.87	644.44
5244	748218.01	4706361.81	666.40
5245	748218.20	4706314.91	640.72
5246	748218.26	4706383.11	693.22
5247	748218.45	4706345.17	657.01
5248	748218.70	4706374.10	680.24
5249	748218.71	4706332.03	643.94
5250	748218.72	4706327.81	643.74
5251	748218.77	4706319.41	644.36
5252	748218.87	4706320.69	644.08
5253	748219.37	4706319.06	643.47
5254	748219.57	4706321.25	643.59
5255	748220.04	4706380.21	686.12
5256	748220.08	4706343.03	652.75
5257	748220.47	4706383.30	693.12
5258	748220.70	4706340.41	650.16
5259	748220.95	4706322.27	644.31
5260	748221.03	4706321.51	643.64
5261	748222.08	4706378.76	691.74
5262	748222.09	4706320.97	644.28

Punto	X	Y	Z
5263	748222.11	4706370.51	688.67
5264	748222.29	4706322.66	644.31
5265	748222.39	4706316.06	640.64
5266	748222.59	4706321.28	644.21
5267	748223.02	4706340.88	653.37
5268	748223.14	4706308.54	634.81
5269	748223.55	4706321.16	643.65
5270	748224.32	4706322.58	643.61
5271	748224.35	4706322.97	643.50
5272	748225.34	4706371.05	680.39
5273	748225.47	4706354.97	660.91
5274	748225.89	4706378.26	694.14
5275	748225.94	4706322.80	643.53
5276	748225.94	4706322.42	643.65
5277	748226.01	4706368.60	667.43
5278	748226.63	4706374.50	690.77
5279	748226.99	4706334.10	643.58
5280	748227.37	4706333.53	643.78
5281	748227.52	4706322.26	643.55
5282	748227.54	4706322.75	643.52
5283	748227.63	4706329.41	643.65
5284	748227.89	4706299.22	632.42
5285	748228.22	4706315.22	639.26
5286	748228.84	4706329.03	643.63
5287	748229.11	4706322.04	643.44
5288	748229.12	4706322.51	643.47
5289	748229.54	4706343.09	653.37
5290	748230.05	4706385.97	696.64
5291	748230.21	4706321.02	643.24
5292	748230.56	4706310.23	634.56
5293	748230.82	4706321.83	643.37
5294	748230.85	4706322.20	643.34
5295	748230.85	4706321.84	643.36
5296	748230.86	4706304.70	633.51
5297	748231.03	4706372.33	668.30
5298	748232.34	4706342.34	652.55
5299	748232.44	4706321.63	643.31
5300	748232.46	4706322.01	643.24
5301	748232.48	4706380.36	691.88

Punto	X	Y	Z
5302	748233.61	4706334.45	643.65
5303	748233.73	4706321.91	643.20
5304	748233.73	4706321.53	643.33
5305	748234.43	4706366.63	664.51
5306	748234.69	4706341.55	651.73
5307	748235.33	4706321.89	643.15
5308	748235.36	4706321.52	643.25
5309	748236.33	4706378.19	670.95
5310	748236.48	4706355.73	658.20
5311	748237.10	4706321.92	643.10
5312	748237.12	4706321.53	643.24
5313	748237.28	4706386.80	695.00
5314	748237.89	4706302.47	632.40
5315	748238.76	4706320.49	643.01
5316	748238.78	4706321.48	643.23
5317	748238.80	4706321.88	643.04
5318	748238.91	4706306.10	633.13
5319	748238.92	4706330.94	643.51
5320	748239.55	4706337.75	644.33
5321	748239.57	4706310.49	634.07
5322	748240.04	4706321.88	643.04
5323	748240.06	4706321.49	643.23
5324	748240.87	4706344.42	651.75
5325	748241.70	4706321.94	643.02
5326	748241.70	4706321.52	643.17
5327	748242.66	4706379.18	670.55
5328	748243.36	4706322.06	643.04
5329	748243.38	4706321.63	643.14
5330	748243.43	4706315.38	639.02
5331	748244.31	4706381.29	671.53
5332	748244.96	4706322.21	643.02
5333	748244.97	4706321.78	643.13
5334	748245.27	4706336.06	643.51
5335	748245.95	4706384.36	672.98
5336	748246.70	4706322.39	642.97
5337	748246.76	4706322.00	643.09
5338	748247.97	4706344.36	651.06
5339	748248.21	4706317.27	639.84

Punto	X	Y	Z
5340	748248.29	4706322.59	642.94
5341	748248.37	4706322.19	643.06
5342	748249.24	4706337.30	643.23
5343	748249.38	4706336.61	643.41
5344	748249.71	4706321.15	642.95
5345	748250.41	4706331.29	643.33
5346	748250.95	4706305.85	632.37
5347	748250.96	4706363.50	660.50
5348	748251.05	4706332.09	643.36
5349	748251.92	4706383.37	672.09
5350	748253.82	4706339.38	644.43
5351	748254.24	4706336.95	643.38
5352	748254.53	4706347.20	652.00
5353	748254.53	4706347.19	652.00
5354	748255.10	4706352.40	654.31
5355	748255.12	4706312.32	633.74
5356	748255.51	4706307.89	632.61
5357	748256.54	4706325.73	643.06
5358	748259.13	4706374.37	665.32
5359	748262.36	4706307.31	632.22
5360	748263.45	4706333.00	643.28
5361	748263.55	4706338.12	643.32
5362	748263.58	4706339.04	643.09
5363	748263.81	4706337.86	643.29
5364	748264.33	4706384.90	670.04
5365	748264.57	4706332.45	643.25
5366	748265.31	4706328.01	642.95
5367	748267.44	4706341.03	643.87
5368	748270.99	4706361.73	657.28
5369	748271.21	4706350.48	651.64
5370	748272.20	4706333.58	643.15
5371	748272.43	4706311.91	632.84
5372	748272.76	4706317.90	634.38
5373	748273.19	4706331.67	643.09
5374	748275.84	4706378.54	664.81
5375	748277.05	4706310.21	631.99
5376	748278.06	4706356.38	654.34
5377	748278.08	4706385.89	668.36

Punto	X	Y	Z
5378	748278.36	4706339.14	643.17
5379	748278.93	4706326.01	640.90
5380	748281.22	4706320.05	634.48
5381	748281.59	4706342.89	643.48
5382	748281.78	4706341.45	642.76
5383	748282.23	4706339.83	643.16
5384	748282.43	4706328.81	642.80
5385	748282.48	4706328.79	642.79
5386	748282.49	4706313.77	632.59
5387	748283.25	4706332.30	642.98
5388	748283.50	4706334.09	643.08
5389	748283.61	4706333.01	643.07
5390	748284.50	4706360.10	655.16
5391	748285.31	4706343.13	643.00
5392	748285.33	4706341.97	642.82
5393	748285.85	4706347.91	646.39
5394	748287.54	4706339.78	643.09
5395	748288.68	4706373.09	660.11
5396	748290.12	4706313.90	631.86
5397	748290.42	4706385.66	666.03
5398	748291.30	4706361.31	655.26
5399	748294.59	4706334.56	642.97
5400	748295.33	4706316.65	632.54
5401	748295.37	4706367.87	657.43
5402	748295.54	4706358.76	653.52
5403	748296.11	4706321.71	633.99
5404	748296.23	4706340.33	643.03
5405	748296.25	4706365.06	655.87
5406	748297.43	4706373.42	659.19
5407	748297.73	4706386.19	664.73
5408	748298.66	4706342.75	642.73
5409	748298.70	4706341.27	643.03
5410	748298.71	4706312.73	631.73
5411	748298.90	4706344.23	643.10
5412	748299.02	4706369.10	657.46
5413	748299.47	4706367.77	656.71
5414	748299.47	4706333.25	642.92
5415	748300.28	4706330.88	642.66
5416	748300.86	4706350.17	647.05

Punto	X	Y	Z
5417	748301.00	4706333.02	642.77
5418	748303.38	4706360.04	654.23
5419	748306.24	4706341.01	642.97
5420	748307.59	4706315.05	631.60

P.K. 1+800 Boquilla de salida al Túnel de Jánovas

Punto	X	Y	Z
4000	746495.17	4706670.51	666.95
4001	746499.22	4706681.68	667.52
4002	746502.14	4706690.93	668.17
4003	746505.64	4706661.69	666.85
4004	746508.44	4706705.71	669.44
4005	746512.93	4706728.71	671.91
4006	746513.53	4706733.98	674.33
4007	746513.94	4706719.67	671.38
4008	746514.62	4706674.43	667.88
4009	746515.84	4706690.63	668.70
4010	746520.03	4706709.40	670.33
4011	746520.66	4706742.60	675.29
4012	746521.20	4706742.97	676.60
4013	746522.92	4706754.69	677.80
4014	746523.25	4706686.70	668.69
4015	746524.79	4706726.78	674.23
4016	746526.02	4706721.19	671.82
4017	746526.63	4706653.57	667.26
4018	746527.28	4706752.84	678.53
4019	746527.74	4706668.01	668.19
4020	746528.06	4706767.93	681.74
4021	746528.13	4706761.54	679.43
4022	746529.85	4706769.00	681.85
4023	746531.64	4706771.00	682.61
4024	746531.73	4706735.83	676.53
4025	746532.98	4706745.95	677.33
4026	746533.09	4706733.01	674.93
4027	746533.14	4706772.59	682.77
4028	746533.48	4706772.71	682.64

Punto	X	Y	Z
4029	746533.56	4706716.33	671.56
4030	746533.82	4706746.67	678.06
4031	746534.35	4706769.84	682.50
4032	746534.44	4706682.44	669.04
4033	746534.56	4706699.55	670.19
4034	746535.30	4706779.04	682.39
4035	746535.79	4706719.56	674.08
4036	746536.24	4706662.41	667.97
4037	746536.40	4706758.54	680.76
4038	746536.46	4706776.05	682.68
4039	746536.73	4706776.31	682.62
4040	746538.01	4706751.94	678.60
4041	746538.51	4706781.10	684.87
4042	746538.94	4706760.27	680.73
4043	746538.97	4706763.69	682.18
4044	746538.99	4706741.89	677.84
4045	746539.00	4706740.56	677.17
4046	746539.26	4706781.18	685.86
4047	746539.91	4706647.73	667.24
4048	746539.92	4706711.54	671.48
4049	746540.02	4706730.20	676.69
4050	746540.33	4706765.79	682.26
4051	746540.56	4706766.05	682.32
4052	746540.94	4706648.37	667.36
4053	746540.95	4706753.06	680.24
4054	746541.33	4706792.34	687.41
4055	746542.13	4706794.13	688.30
4056	746543.07	4706736.66	677.27
4057	746543.42	4706756.13	680.34
4058	746543.44	4706737.83	677.65
4059	746543.57	4706769.33	682.27
4060	746543.66	4706798.53	689.17
4061	746543.76	4706769.70	682.26
4062	746544.03	4706736.44	677.33
4063	746544.12	4706646.28	669.09
4064	746544.39	4706736.94	677.56
4065	746544.42	4706770.26	681.87
4066	746544.57	4706746.24	678.20

Punto	X	Y	Z
4067	746544.60	4706803.91	689.44
4068	746544.64	4706707.47	671.79
4069	746545.27	4706771.83	684.68
4070	746545.95	4706657.40	670.19
4071	746545.95	4706804.64	690.99
4072	746546.00	4706724.24	674.73
4073	746546.02	4706674.69	669.31
4074	746546.04	4706646.11	669.19
4075	746546.05	4706712.14	673.55
4076	746546.51	4706771.07	685.90
4077	746546.64	4706656.57	669.89
4078	746546.74	4706725.93	676.46
4079	746546.88	4706782.34	686.98
4080	746547.08	4706747.33	679.76
4081	746547.19	4706659.01	670.11
4082	746547.44	4706784.71	687.94
4083	746547.66	4706645.49	668.44
4084	746548.35	4706755.58	681.70
4085	746549.19	4706692.56	670.69
4086	746549.32	4706769.06	685.42
4087	746549.32	4706677.07	671.60
4088	746549.40	4706810.07	692.42
4089	746549.63	4706707.27	672.12
4090	746549.82	4706699.06	671.53
4091	746549.92	4706757.89	681.85
4092	746549.99	4706758.11	681.89
4093	746550.00	4706707.33	672.39
4094	746550.09	4706656.25	669.07
4095	746550.18	4706707.42	672.31
4096	746550.72	4706741.04	678.29
4097	746550.93	4706656.18	669.50
4098	746551.24	4706750.08	679.78
4099	746551.48	4706719.50	674.13
4100	746551.57	4706741.68	678.99
4101	746551.63	4706721.17	676.46
4102	746551.86	4706739.75	678.11
4103	746551.93	4706762.63	681.85
4104	746552.07	4706766.50	684.20



Punto	X	Y	Z
4105	746552.11	4706762.06	681.88
4106	746552.18	4706728.71	676.79
4107	746552.18	4706739.03	678.17
4108	746552.40	4706763.32	681.49
4109	746552.41	4706740.08	678.67
4110	746552.55	4706694.90	672.92
4111	746552.61	4706702.84	672.10
4112	746552.72	4706793.76	689.76
4113	746552.89	4706732.25	677.46
4114	746553.40	4706774.10	686.19
4115	746553.41	4706688.49	672.26
4116	746553.43	4706728.65	675.40
4117	746553.64	4706717.52	675.85
4118	746553.88	4706732.04	675.93
4119	746553.88	4706648.34	668.93
4120	746553.90	4706734.93	677.87
4121	746553.96	4706775.71	687.20
4122	746554.28	4706723.45	676.38
4123	746554.52	4706765.28	685.13
4124	746554.74	4706707.12	674.53
4125	746554.74	4706793.08	691.30
4126	746554.85	4706783.65	688.53
4127	746554.98	4706723.80	674.81
4128	746555.11	4706711.90	673.37
4129	746555.14	4706799.19	691.94
4130	746555.34	4706711.41	675.53
4131	746555.53	4706696.94	672.81
4132	746555.75	4706686.70	671.82
4133	746555.76	4706747.24	680.07
4134	746555.94	4706741.39	678.82
4135	746556.30	4706763.74	683.75
4136	746556.55	4706686.93	672.11
4137	746556.60	4706720.65	676.25
4138	746556.67	4706746.29	679.60
4139	746556.67	4706708.93	674.87
4140	746556.71	4706696.42	672.74
4141	746556.99	4706741.21	676.73
4142	746557.01	4706693.56	672.54
4143	746557.23	4706696.93	672.87

Punto	X	Y	Z
4144	746557.34	4706721.34	674.85
4145	746557.35	4706788.54	690.26
4146	746557.58	4706750.65	681.45
4147	746557.59	4706772.14	686.24
4148	746557.87	4706764.02	684.71
4149	746557.89	4706750.44	681.54
4150	746557.91	4706696.64	672.87
4151	746557.94	4706708.85	673.31
4152	746557.97	4706772.98	686.34
4153	746558.08	4706729.59	677.66
4154	746558.13	4706751.62	681.42
4155	746558.15	4706790.66	691.33
4156	746558.18	4706750.81	681.50
4157	746558.29	4706751.92	681.48
4158	746558.75	4706714.28	675.55
4159	746559.03	4706772.63	686.31
4160	746559.24	4706749.35	681.39
4161	746559.37	4706748.37	680.90
4162	746559.38	4706715.30	674.29
4163	746559.49	4706749.75	681.39
4164	746559.58	4706748.76	681.17
4165	746559.67	4706708.34	673.29
4166	746559.86	4706748.89	681.18
4167	746559.89	4706724.05	675.26
4168	746559.94	4706748.89	681.37
4169	746560.22	4706749.25	681.37
4170	746560.32	4706725.64	676.93
4171	746560.35	4706668.73	669.72
4172	746560.40	4706643.93	668.82
4173	746560.41	4706736.20	676.81
4174	746560.49	4706694.61	671.82
4175	746560.59	4706724.76	676.74
4176	746560.63	4706762.99	683.75
4177	746560.64	4706704.60	674.07
4178	746560.64	4706703.69	673.42
4179	746560.68	4706778.64	688.68
4180	746560.80	4706755.11	681.40
4181	746560.82	4706763.50	684.78
4182	746560.88	4706783.05	689.54

Punto	X	Y	Z
4183	746560.99	4706755.53	681.37
4184	746561.00	4706780.96	689.11
4185	746561.05	4706756.72	680.93
4186	746561.24	4706747.87	681.34
4187	746561.32	4706747.47	677.07
4188	746561.35	4706781.91	689.78
4189	746561.39	4706747.54	678.31
4190	746561.43	4706736.08	678.38
4191	746561.48	4706763.89	684.72
4192	746561.48	4706679.31	670.66
4193	746561.58	4706748.21	681.30
4194	746561.58	4706787.94	690.52
4195	746562.01	4706747.25	681.27
4196	746562.05	4706757.65	681.57
4197	746562.27	4706747.60	681.25
4198	746562.29	4706712.19	674.82
4199	746562.38	4706716.97	674.20
4200	746562.52	4706720.95	676.35
4201	746562.53	4706766.42	685.34
4202	746562.70	4706739.51	678.47
4203	746562.85	4706757.41	681.01
4204	746562.85	4706775.14	687.19
4205	746563.08	4706746.41	681.25
4206	746563.35	4706746.73	681.27
4207	746563.46	4706768.71	685.64
4208	746563.79	4706804.55	694.61
4209	746564.02	4706791.49	692.04
4210	746564.09	4706717.40	674.72
4211	746564.18	4706746.06	681.25
4212	746564.40	4706702.82	672.88
4213	746564.43	4706658.88	669.08
4214	746564.46	4706766.64	682.44
4215	746564.52	4706787.90	689.76
4216	746564.54	4706686.95	671.56
4217	746564.63	4706780.65	687.03
4218	746564.67	4706776.77	687.03
4219	746564.77	4706745.02	680.89
4220	746564.79	4706770.59	685.71

Punto	X	Y	Z
4221	746564.91	4706718.07	676.24
4222	746564.98	4706717.01	676.13
4223	746565.13	4706775.21	684.95
4224	746565.16	4706774.09	686.44
4225	746565.17	4706744.79	681.20
4226	746565.33	4706776.72	686.03
4227	746565.37	4706745.11	681.23
4228	746565.47	4706752.43	681.09
4229	746565.61	4706740.50	680.31
4230	746565.69	4706744.51	681.18
4231	746565.74	4706752.37	679.76
4232	746566.03	4706716.31	676.18
4233	746566.06	4706714.61	674.85
4234	746566.07	4706745.29	681.02
4235	746566.29	4706802.04	694.32
4236	746566.34	4706780.18	688.16
4237	746566.64	4706745.48	681.03
4238	746566.79	4706751.02	681.11
4239	746566.85	4706797.33	693.04
4240	746567.16	4706764.48	685.86
4241	746567.75	4706719.79	676.52
4242	746568.00	4706751.71	681.04
4243	746568.04	4706672.57	670.36
4244	746568.44	4706726.57	676.74
4245	746568.46	4706775.98	687.75
4246	746568.59	4706794.38	692.64
4247	746568.71	4706758.36	684.04
4248	746568.77	4706748.62	681.09
4249	746568.92	4706699.41	671.61
4250	746568.94	4706762.98	685.96
4251	746569.04	4706749.05	681.10
4252	746569.26	4706749.84	680.89
4253	746569.36	4706733.68	678.08
4254	746569.54	4706765.50	686.29
4255	746569.60	4706798.32	693.70
4256	746569.62	4706800.99	695.06
4257	746569.73	4706755.74	683.68
4258	746569.74	4706639.82	665.68

Punto	X	Y	Z
4259	746569.74	4706784.89	688.40
4260	746569.79	4706772.75	687.05
4261	746570.29	4706769.65	683.16
4262	746570.39	4706671.92	669.26
4263	746570.59	4706713.66	674.35
4264	746570.72	4706674.61	670.03
4265	746570.77	4706761.87	686.37
4266	746570.79	4706769.28	686.66
4267	746570.88	4706758.09	684.15
4268	746571.01	4706761.60	686.37
4269	746571.10	4706715.52	676.19
4270	746571.25	4706702.66	673.88
4271	746571.73	4706758.48	686.14
4272	746571.97	4706778.50	688.49
4273	746572.41	4706681.84	670.34
4274	746572.51	4706792.36	689.78
4275	746572.52	4706778.64	689.21
4276	746572.60	4706784.59	689.48
4277	746572.64	4706789.80	690.07
4278	746572.78	4706665.35	668.52
4279	746573.13	4706642.63	667.79
4280	746573.38	4706784.30	689.71
4281	746573.57	4706767.69	687.17
4282	746573.61	4706671.61	669.22
4283	746573.73	4706643.88	667.34
4284	746573.83	4706648.65	667.59
4285	746573.87	4706734.54	679.94
4286	746574.19	4706720.77	676.59
4287	746574.19	4706727.04	677.86
4288	746574.48	4706767.83	687.86
4289	746574.83	4706672.72	670.24
4290	746574.92	4706753.07	683.79
4291	746575.01	4706783.37	691.04
4292	746575.02	4706793.23	690.72
4293	746575.04	4706736.89	680.47
4294	746575.40	4706755.35	684.55
4295	746575.54	4706737.43	680.55
4296	746575.58	4706755.73	686.20
4297	746576.73	4706710.74	674.28

Punto	X	Y	Z
4298	746576.81	4706714.13	676.22
4299	746577.47	4706754.05	684.58
4300	746578.05	4706716.35	676.44
4301	746578.10	4706761.18	688.06
4302	746578.18	4706713.69	676.28
4303	746578.48	4706698.85	673.52
4304	746578.50	4706758.58	686.88
4305	746578.51	4706799.52	691.94
4306	746578.58	4706739.97	680.75
4307	746578.81	4706727.21	678.08
4308	746578.82	4706749.10	683.94
4309	746579.03	4706740.54	680.81
4310	746580.28	4706741.18	680.61
4311	746580.64	4706747.03	683.82
4312	746580.89	4706770.00	689.94
4313	746580.94	4706769.23	689.33
4314	746581.04	4706752.70	686.39
4315	746581.35	4706638.55	665.22
4316	746582.03	4706779.60	692.56
4317	746582.10	4706687.38	671.47
4318	746582.15	4706774.28	690.44
4319	746582.28	4706749.09	684.43
4320	746582.41	4706774.48	691.32
4321	746583.15	4706752.92	686.65
4322	746583.72	4706728.39	680.02
4323	746584.00	4706755.03	688.24
4324	746584.05	4706721.71	677.56
4325	746584.18	4706786.43	695.08
4326	746584.19	4706728.64	680.01
4327	746584.35	4706728.91	680.09
4328	746584.88	4706643.70	667.25
4329	746585.05	4706742.35	683.76
4330	746585.09	4706788.58	696.61
4331	746585.50	4706693.42	672.07
4332	746585.61	4706705.76	674.42
4333	746585.68	4706694.20	673.18
4334	746586.15	4706771.12	691.44
4335	746586.50	4706678.42	670.80
4336	746586.80	4706656.51	667.65

Punto	X	Y	Z
4337	746586.90	4706667.97	668.27
4338	746587.32	4706713.85	676.94
4339	746587.45	4706795.42	697.88
4340	746587.48	4706732.47	680.30
4341	746587.67	4706708.22	676.49
4342	746587.71	4706732.69	680.31
4343	746588.21	4706776.11	693.19
4344	746588.39	4706734.06	680.00
4345	746589.17	4706669.07	670.14
4346	746589.49	4706742.61	685.60
4347	746589.66	4706742.26	684.18
4347	746589.66	4706742.26	684.18
4348	746589.79	4706759.59	689.39
4349	746590.50	4706764.69	690.50
4350	746590.66	4706759.59	690.14
4351	746590.68	4706765.21	691.21
4352	746590.92	4706748.39	688.12
4353	746591.48	4706778.73	694.39
4354	746591.92	4706719.56	679.57
4355	746592.44	4706719.78	679.59
4356	746592.52	4706719.92	679.68
4357	746592.57	4706641.99	667.22
4358	746593.87	4706638.27	665.70
4359	746594.23	4706650.90	667.32
4360	746594.63	4706732.65	683.24
4361	746595.15	4706743.49	686.42
4362	746595.20	4706737.32	685.46
4363	746595.20	4706790.70	699.36
4364	746596.10	4706707.11	676.45
4365	746596.22	4706722.97	679.86
4366	746596.43	4706626.18	665.34
4367	746596.57	4706723.12	679.88
4368	746596.60	4706689.92	673.03
4369	746597.52	4706756.69	690.75
4370	746597.70	4706723.60	679.71
4371	746597.83	4706734.42	684.16
4372	746597.96	4706756.98	691.47
4373	746598.00	4706742.94	688.21

Punto	X	Y	Z
4374	746598.33	4706766.43	693.78
4375	746598.42	4706780.25	698.04
4376	746598.48	4706697.17	674.06
4377	746598.72	4706749.86	689.42
4378	746598.79	4706698.61	675.56
4379	746598.88	4706680.19	671.18
4380	746599.04	4706750.37	690.13
4381	746599.42	4706740.62	686.59
4382	746599.60	4706664.54	668.28
4383	746599.70	4706628.26	665.29
4384	746599.86	4706633.89	666.05
4385	746600.63	4706625.78	665.70
4386	746600.67	4706731.67	684.00
4387	746600.69	4706731.98	685.40
4388	746600.70	4706697.46	674.97
4389	746601.06	4706637.74	666.40
4390	746601.39	4706707.29	678.97
4391	746601.89	4706692.80	673.98
4392	746601.99	4706635.18	666.20
4393	746602.15	4706708.21	679.11
4394	746602.26	4706665.73	670.25
4395	746602.54	4706708.50	679.23
4396	746602.55	4706781.17	700.42
4397	746602.73	4706642.24	667.16
4398	746603.23	4706688.50	673.27
4399	746603.27	4706790.29	702.69
4400	746603.32	4706774.08	698.28
4401	746603.70	4706735.60	685.72
4402	746603.77	4706737.57	687.74
4403	746604.14	4706727.52	683.75
4404	746604.17	4706632.26	666.40
4405	746605.50	4706748.12	690.81
4406	746605.64	4706656.49	668.05
4407	746605.79	4706748.53	691.51
4408	746606.03	4706778.73	701.69
4409	746606.09	4706711.86	679.41
4410	746606.12	4706711.96	679.33
4411	746606.36	4706680.70	671.39



Punto	X	Y	Z
4412	746606.37	4706784.18	702.69
4413	746606.58	4706741.70	688.81
4414	746606.69	4706767.44	697.90
4415	746606.81	4706741.87	689.80
4416	746606.92	4706713.03	679.04
4417	746606.95	4706681.64	672.62
4418	746607.16	4706661.85	668.41
4419	746607.76	4706719.59	681.82
4420	746607.91	4706641.83	667.80
4421	746608.08	4706636.44	666.88
4422	746608.44	4706719.58	682.65
4423	746608.61	4706696.64	678.47
4424	746608.87	4706785.66	705.85
4425	746609.16	4706744.05	690.62
4426	746609.27	4706756.73	696.45
4427	746609.45	4706744.10	691.06
4428	746610.39	4706735.17	688.77
4429	746610.44	4706697.62	678.64
4430	746610.45	4706728.97	686.64
4431	746610.53	4706739.53	689.96
4432	746610.54	4706697.52	678.78
4433	746610.74	4706685.32	674.81
4434	746610.98	4706724.15	684.25
4435	746611.07	4706780.76	705.92
4436	746611.11	4706674.09	671.09
4437	746611.71	4706675.22	671.27
4438	746611.91	4706640.70	667.09
4439	746612.40	4706712.11	683.43
4440	746612.60	4706782.93	706.11
4441	746613.00	4706678.08	672.17
4442	746613.18	4706716.15	685.11
4443	746614.43	4706748.49	695.39
4444	746614.55	4706644.27	668.16
4445	746614.90	4706699.86	678.82
4446	746614.95	4706772.16	705.09
4447	746615.27	4706722.75	686.59
4448	746615.37	4706699.99	678.73
4449	746615.42	4706709.73	684.80
4450	746615.52	4706726.31	686.48

Punto	X	Y	Z
4451	746615.57	4706661.55	670.52
4452	746616.03	4706700.45	678.58
4453	746616.83	4706659.37	668.95
4454	746617.53	4706647.41	668.59
4455	746617.84	4706655.23	668.72
4456	746618.07	4706658.38	669.01
4457	746618.17	4706685.75	677.97
4458	746618.38	4706685.98	678.29
4459	746618.59	4706640.92	667.49
4460	746618.60	4706709.69	686.76
4461	746618.61	4706686.21	678.46
4462	746618.69	4706655.23	669.31
4463	746618.76	4706686.65	678.26
4464	746618.95	4706643.76	668.25
4465	746619.08	4706732.00	690.05
4466	746619.13	4706622.58	664.64
4467	746619.27	4706647.20	668.02
4468	746619.45	4706687.08	678.22
4469	746619.48	4706780.57	709.93
4470	746619.53	4706674.80	673.43
4471	746619.74	4706741.29	694.74
4472	746619.98	4706682.69	675.87
4473	746620.22	4706724.61	689.44
4474	746620.34	4706628.33	665.74
4475	746620.59	4706726.82	689.34
4476	746620.62	4706775.85	708.42
4477	746620.86	4706659.94	670.09
4478	746620.94	4706642.43	668.41
4479	746621.03	4706748.05	697.80
4480	746621.69	4706663.80	670.81
4481	746621.75	4706665.84	671.35
4482	746622.19	4706758.56	702.44
4483	746622.39	4706709.33	688.70
4484	746622.39	4706659.04	669.41
4485	746622.64	4706689.25	678.31
4486	746622.92	4706689.54	678.30
4487	746623.13	4706669.16	673.00
4488	746623.38	4706656.41	669.73
4489	746623.42	4706690.36	678.07

Punto	X	Y	Z
4490	746623.89	4706766.47	706.99
4491	746623.91	4706659.12	669.57
4492	746624.16	4706640.73	667.20
4493	746624.17	4706622.83	664.76
4494	746624.75	4706677.94	677.87
4495	746624.85	4706707.77	689.16
4496	746624.88	4706725.28	692.24
4497	746624.93	4706675.84	676.04
4498	746625.03	4706784.64	714.61
4499	746625.09	4706678.17	677.87
4500	746625.21	4706697.53	682.11
4501	746625.34	4706713.13	690.76
4502	746625.36	4706678.17	677.85
4503	746625.63	4706657.78	670.43
4504	746625.65	4706668.41	673.06
4505	746626.29	4706665.50	671.20
4506	746626.51	4706777.56	712.04
4507	746626.70	4706694.76	681.53
4508	746626.87	4706732.20	694.96
4509	746626.99	4706651.35	670.01
4510	746627.27	4706712.74	689.53
4511	746627.35	4706698.39	681.81
4512	746627.44	4706669.43	674.57
4513	746627.51	4706709.29	687.11
4514	746627.65	4706717.76	692.14
4515	746627.93	4706695.51	680.66
4516	746627.98	4706670.71	674.58
4517	746628.49	4706704.17	684.60
4518	746628.61	4706762.59	706.73
4519	746628.67	4706680.34	677.88
4520	746628.93	4706642.84	669.36
4521	746629.03	4706742.17	699.33
4522	746629.14	4706680.71	677.91
4523	746629.17	4706718.37	691.83
4524	746629.17	4706670.33	675.67
4525	746629.26	4706728.91	694.77
4526	746629.37	4706639.60	667.34
4527	746629.55	4706680.75	677.63

Punto	X	Y	Z
4528	746629.56	4706704.20	685.57
4529	746629.57	4706666.52	673.76
4530	746629.69	4706687.82	679.33
4531	746629.87	4706749.44	702.60
4532	746629.87	4706687.54	679.05
4533	746629.88	4706668.67	673.33
4534	746630.12	4706759.36	704.84
4535	746630.13	4706725.39	694.70
4536	746630.17	4706728.07	695.30
4537	746630.29	4706621.16	666.00
4538	746630.55	4706631.18	666.41
4539	746630.77	4706667.87	675.72
4540	746631.25	4706770.84	712.69
4541	746631.55	4706725.18	693.99
4542	746631.58	4706669.00	677.48
4543	746631.58	4706669.01	677.60
4544	746631.82	4706669.29	677.49
4545	746631.98	4706694.05	682.34
4546	746632.25	4706715.71	693.11
4547	746632.76	4706779.35	715.52
4548	746632.89	4706707.88	690.60
4549	746633.02	4706730.78	696.57
4550	746633.15	4706643.68	669.86
4551	746633.88	4706739.68	700.11
4552	746634.03	4706664.32	677.28
4553	746634.15	4706641.59	669.36
4554	746634.29	4706664.64	677.32
4555	746634.29	4706736.40	698.64
4556	746634.31	4706664.02	677.15
4557	746634.31	4706729.41	695.76
4558	746634.49	4706676.27	677.16
4559	746634.53	4706675.37	676.99
4560	746634.55	4706719.24	695.29
4561	746634.61	4706685.16	680.73
4562	746634.65	4706688.19	681.71
4563	746635.05	4706671.89	677.53
4564	746635.08	4706769.51	712.70
4565	746635.11	4706673.12	677.30

Punto	X	Y	Z
4566	746635.38	4706672.00	677.50
4567	746635.42	4706680.79	679.67
4568	746635.72	4706773.19	715.60
4569	746635.91	4706672.32	675.59
4570	746636.13	4706621.99	666.79
4571	746636.15	4706608.95	663.87
4572	746636.38	4706671.32	677.30
4573	746636.45	4706649.58	672.61
4574	746636.63	4706677.95	678.16
4575	746636.99	4706702.84	688.86
4576	746637.01	4706725.10	698.00
4577	746637.06	4706670.76	677.07
4578	746637.12	4706736.47	701.66
4579	746637.19	4706758.25	710.38
4580	746637.72	4706739.88	702.45
4581	746637.81	4706732.19	698.82
4582	746637.90	4706680.56	680.32
4583	746638.37	4706658.76	677.06
4584	746638.46	4706679.09	679.33
4585	746638.57	4706697.47	685.58
4586	746638.68	4706658.91	677.10
4587	746638.74	4706731.69	698.96
4588	746638.78	4706769.56	712.08
4589	746639.22	4706676.36	680.14
4590	746639.25	4706658.95	677.14
4591	746639.85	4706694.02	686.90
4592	746640.04	4706772.56	713.83
4593	746640.53	4706737.19	703.31
4594	746640.71	4706632.55	669.63
4595	746640.85	4706673.53	679.65
4596	746641.30	4706729.38	700.79
4597	746641.33	4706758.56	712.45
4598	746641.47	4706762.40	714.42
4599	746641.83	4706734.31	702.33
4600	746642.30	4706661.58	677.16
4601	746642.55	4706671.46	680.46
4602	746642.56	4706661.84	677.14
4603	746642.80	4706738.54	704.54
4604	746642.95	4706737.49	704.54

Punto	X	Y	Z
4605	746643.72	4706662.24	676.42
4606	746643.91	4706711.91	695.57
4607	746644.27	4706734.57	704.20
4608	746644.80	4706776.31	720.86
4609	746644.97	4706767.76	717.46
4610	746645.38	4706612.27	667.13
4611	746645.63	4706643.60	676.30
4612	746646.38	4706722.97	701.73
4613	746646.55	4706700.09	692.57
4614	746646.58	4706619.62	668.35
4615	746646.70	4706733.10	705.13
4616	746647.04	4706668.27	681.74
4617	746647.11	4706749.04	710.29
4618	746647.38	4706773.40	721.22
4619	746648.20	4706686.24	685.92
4620	746648.30	4706645.64	676.59
4621	746648.33	4706770.87	720.63
4622	746649.07	4706646.01	676.62
4623	746649.59	4706635.93	675.96
4624	746650.59	4706659.37	681.35
4625	746650.69	4706766.44	720.26
4626	746651.24	4706717.25	701.45
4627	746652.12	4706739.99	710.90
4628	746652.22	4706648.64	676.63
4629	746652.78	4706649.01	676.57
4630	746653.00	4706649.29	676.44
4631	746653.20	4706674.97	687.09
4632	746654.34	4706624.09	672.49
4633	746654.40	4706732.23	709.00
4634	746655.77	4706753.54	715.90
4635	746655.80	4706766.60	721.72
4636	746655.87	4706713.74	702.08
4637	746656.64	4706615.77	670.12
4638	746656.96	4706647.81	680.30
4639	746657.62	4706627.76	675.62
4640	746659.90	4706629.60	676.01
4641	746660.40	4706642.88	679.53
4642	746660.47	4706630.01	676.04
4643	746660.56	4706623.06	675.58

Punto	X	Y	Z
4644	746661.26	4706664.98	688.84
4645	746662.40	4706634.55	676.24
4646	746662.85	4706728.74	711.03
4647	746662.97	4706755.42	719.68
4648	746663.42	4706700.18	699.83
4649	746664.33	4706672.71	692.21
4650	746664.70	4706632.78	676.04
4651	746664.98	4706637.15	679.20
4652	746665.41	4706632.85	675.93
4653	746666.49	4706770.62	727.03
4654	746667.14	4706710.26	706.70
4655	746667.15	4706739.00	716.78
4656	746668.25	4706647.25	683.00
4657	746669.12	4706686.43	698.56
4658	746671.01	4706748.34	722.72
4659	746671.35	4706720.21	711.42
4660	746673.20	4706655.16	687.91
4661	746673.76	4706699.94	705.26
4662	746676.15	4706757.25	727.53
4663	746676.51	4706707.24	709.14
4664	746676.55	4706728.92	718.05
4665	746677.66	4706763.85	730.33
4666	746678.18	4706667.97	695.33
4667	746679.75	4706715.85	713.98
4668	746680.95	4706738.38	723.46
4669	746682.98	4706726.45	719.77
4670	746683.05	4706680.48	702.25
4671	746686.44	4706750.74	729.54
4672	746687.35	4706691.15	707.54
4673	746690.23	4706739.53	728.46
4674	746690.74	4706758.36	734.11
4675	746691.36	4706703.77	715.56
4676	746693.65	4706747.83	733.49
4677	746696.27	4706717.21	723.89
4678	746699.79	4706728.07	731.19
4679	746702.86	4706760.12	743.57
4680	746704.54	4706738.83	737.82
4681	746708.92	4706751.73	745.34

## P.K. 2+450 Viaducto 1 sobre el Río Ara

Punto	X	Y	Z
3000	745798.19	4706440.62	658.28
3001	745807.68	4706425.59	658.38
3002	745811.28	4706448.70	658.02
3003	745813.79	4706451.50	658.00
3004	745815.87	4706436.49	658.09
3005	745817.35	4706409.36	658.31
3006	745817.58	4706450.41	658.04
3007	745819.75	4706451.24	657.51
3008	745822.33	4706441.23	658.01
3009	745822.82	4706394.52	658.33
3010	745825.64	4706421.94	658.20
3011	745826.09	4706445.84	657.95
3012	745832.92	4706374.71	658.38
3013	745835.70	4706401.23	658.24
3014	745837.81	4706429.11	657.98
3015	745838.27	4706389.03	658.29
3016	745838.60	4706439.69	657.81
3017	745838.92	4706440.05	657.83
3018	745843.07	4706366.77	658.53
3019	745843.91	4706353.16	658.53
3020	745845.50	4706465.09	654.10
3021	745845.66	4706451.81	655.32
3022	745847.16	4706435.36	657.93
3023	745848.37	4706436.05	657.33
3024	745849.36	4706412.15	657.94
3025	745850.10	4706418.26	657.76
3026	745850.62	4706437.79	656.89
3027	745852.97	4706442.54	655.42
3028	745853.37	4706398.41	658.01
3029	745854.27	4706340.87	658.60
3030	745856.17	4706448.52	654.08
3031	745856.95	4706429.49	657.67
3032	745857.14	4706429.91	657.81
3033	745859.20	4706443.61	653.91
3034	745863.98	4706439.00	653.97
3035	745864.50	4706369.76	658.30
3036	745864.84	4706405.81	657.85



Punto	X	Y	Z
3037	745868.62	4706383.26	658.02
3038	745870.16	4706351.59	658.48
3039	745873.55	4706420.73	657.64
3040	745873.75	4706421.84	657.70
3041	745876.34	4706395.78	657.86
3042	745876.49	4706488.96	654.10
3043	745878.58	4706489.62	654.72
3044	745883.75	4706371.65	658.23
3045	745888.57	4706359.72	658.33
3046	745889.24	4706481.39	654.85
3047	745889.68	4706409.42	657.86
3048	745891.25	4706411.58	657.78
3049	745892.30	4706476.55	653.97
3050	745895.87	4706494.72	654.20
3051	745898.68	4706411.89	655.01
3052	745899.04	4706412.07	653.09
3053	745899.33	4706400.93	657.86
3054	745900.04	4706383.61	658.02
3055	745900.37	4706403.23	657.82
3056	745900.67	4706472.17	654.75
3057	745900.87	4706387.66	657.99
3058	745902.65	4706483.92	654.15
3059	745907.77	4706466.33	654.70
3060	745914.24	4706385.24	657.97
3061	745916.19	4706467.03	654.12
3062	745917.68	4706386.45	657.86
3063	745918.71	4706452.29	653.39
3064	745919.35	4706504.62	654.20
3065	745919.46	4706507.04	654.80
3066	745920.75	4706388.38	658.29
3067	745923.20	4706451.27	654.17
3068	745925.42	4706499.65	654.06
3069	745926.21	4706379.98	657.90
3070	745926.94	4706500.48	654.80
3071	745929.19	4706512.07	655.30
3072	745930.74	4706450.39	653.79
3073	745933.50	4706501.77	654.68
3074	745934.18	4706435.56	653.47
3075	745934.51	4706436.92	653.63

Punto	X	Y	Z
3076	745936.88	4706491.41	654.29
3077	745937.40	4706491.63	654.70
3078	745938.47	4706434.23	653.42
3079	745938.81	4706494.03	654.76
3080	745942.09	4706510.08	655.35
3081	745943.46	4706520.12	655.66
3082	745944.36	4706484.69	654.30
3083	745945.82	4706439.64	653.54
3084	745946.39	4706439.69	653.63
3085	745946.47	4706496.60	654.80
3086	745946.76	4706486.78	654.75
3087	745947.36	4706454.31	654.00
3088	745948.91	4706424.01	653.16
3089	745950.13	4706404.82	652.44
3090	745950.34	4706468.59	654.01
3091	745950.69	4706395.20	652.02
3092	745952.31	4706479.16	654.28
3093	745952.64	4706426.31	653.63
3094	745953.67	4706505.95	655.20
3095	745955.99	4706516.96	655.27
3096	745956.54	4706500.13	654.92
3097	745956.63	4706490.90	654.37
3098	745957.17	4706509.42	654.79
3099	745957.21	4706528.46	655.76
3100	745957.75	4706409.54	653.01
3101	745959.05	4706498.65	655.28
3102	745959.41	4706433.44	653.74
3103	745960.44	4706462.56	654.35
3104	745960.56	4706505.74	655.18
3105	745962.15	4706511.75	655.30
3106	745963.02	4706496.04	655.13
3107	745964.17	4706484.45	654.25
3108	745967.10	4706473.86	654.28
3109	745968.48	4706424.44	653.60
3110	745968.82	4706347.83	654.46
3111	745969.01	4706516.51	655.39
3112	745969.13	4706529.07	655.77
3113	745971.03	4706350.69	651.97
3114	745971.50	4706444.46	654.39

Punto	X	Y	Z
3115	745972.17	4706488.34	653.91
3116	745973.87	4706483.34	654.34
3117	745975.57	4706503.40	655.14
3118	745978.30	4706476.34	654.66
3119	745978.55	4706540.23	656.20
3120	745979.47	4706460.10	654.28
3121	745979.93	4706492.60	655.08
3122	745982.18	4706416.49	653.74
3123	745982.33	4706510.27	655.24
3124	745984.13	4706484.10	653.42
3125	745985.11	4706487.66	654.92
3126	745985.54	4706427.05	654.10
3127	745986.66	4706508.16	655.11
3128	745989.92	4706526.22	655.82
3129	745990.16	4706443.78	654.36
3130	745990.50	4706462.87	654.22
3131	745993.33	4706453.74	654.38
3132	745993.81	4706471.77	654.30
3133	745995.20	4706543.02	656.31
3134	745995.32	4706550.35	656.47
3135	745996.98	4706478.42	653.33
3136	745997.50	4706507.89	655.55
3137	745998.23	4706493.96	655.38
3138	746001.90	4706431.93	654.43
3139	746004.41	4706474.83	653.45
3140	746004.60	4706448.13	654.17
3141	746004.65	4706477.64	653.46
3142	746004.83	4706520.86	655.87
3143	746005.05	4706464.35	652.80
3144	746006.44	4706535.64	655.94
3145	746006.59	4706487.26	655.30
3146	746006.61	4706479.37	654.87
3147	746006.92	4706469.54	653.66
3148	746007.11	4706559.92	656.93
3149	746008.70	4706553.53	656.73
3150	746010.03	4706458.65	654.33
3151	746010.15	4706478.34	654.97
3152	746014.08	4706480.77	654.87

Punto	X	Y	Z
3153	746014.59	4706465.48	652.82
3154	746015.26	4706480.27	654.84
3155	746015.37	4706476.46	654.92
3156	746015.66	4706436.26	654.16
3157	746016.99	4706519.39	655.76
3158	746017.04	4706468.38	652.90
3159	746017.54	4706475.30	654.92
3160	746018.12	4706473.81	653.91
3161	746019.87	4706501.96	655.38
3162	746020.39	4706568.17	657.51
3163	746020.85	4706536.70	656.29
3164	746021.20	4706461.64	653.43
3165	746021.23	4706452.78	654.14
3166	746021.50	4706459.32	654.06
3167	746024.28	4706546.31	656.71
3168	746027.93	4706469.81	653.51
3169	746028.07	4706525.68	655.88
3170	746028.47	4706469.89	654.71
3171	746029.28	4706455.58	653.83
3172	746029.38	4706497.86	655.36
3173	746030.61	4706481.17	654.88
3174	746031.07	4706446.42	653.97
3175	746037.52	4706538.18	656.38
3176	746038.27	4706577.61	657.08
3177	746039.50	4706461.00	652.83
3178	746039.70	4706569.64	656.97
3179	746040.45	4706512.53	655.58
3180	746040.58	4706555.41	656.69
3181	746044.20	4706464.31	653.37
3182	746044.48	4706465.16	654.50
3183	746050.69	4706501.55	655.18
3184	746050.78	4706550.39	656.38
3185	746051.13	4706488.07	655.33
3186	746051.65	4706475.30	654.92
3187	746052.60	4706567.50	656.26
3188	746052.62	4706577.35	656.29
3189	746052.79	4706536.78	656.01
3190	746052.81	4706586.59	657.05

Punto	X	Y	Z
3191	746052.92	4706454.33	652.78
3192	746057.40	4706581.94	656.69
3193	746058.43	4706558.54	656.01
3194	746061.04	4706457.24	653.37
3195	746061.49	4706457.77	655.01
3196	746061.69	4706529.14	655.76
3197	746062.43	4706514.08	655.26
3198	746062.80	4706467.09	654.69
3199	746063.04	4706542.23	655.80
3200	746065.10	4706494.99	655.09
3201	746065.58	4706573.17	656.33
3202	746070.90	4706551.12	655.80
3203	746071.21	4706593.23	656.66
3204	746072.57	4706559.16	655.50
3205	746073.70	4706451.35	653.49
3206	746075.65	4706568.70	655.70
3207	746075.98	4706451.75	654.70
3208	746076.11	4706519.57	655.12
3209	746076.81	4706578.94	656.20
3210	746078.03	4706549.39	655.34
3211	746078.12	4706558.74	656.06
3212	746078.36	4706558.90	655.69
3213	746079.17	4706537.53	655.26
3214	746079.34	4706503.56	654.73
3215	746079.57	4706482.44	654.76
3216	746080.82	4706458.89	654.57
3217	746080.92	4706582.38	658.75
3218	746082.59	4706601.27	663.73
3219	746082.65	4706595.80	663.78
3220	746082.97	4706562.39	655.50
3221	746086.56	4706585.22	663.54
3222	746087.03	4706545.75	656.22
3223	746087.17	4706545.94	655.95
3224	746087.98	4706587.73	663.51
3225	746089.06	4706551.71	655.36
3226	746092.17	4706574.50	662.99
3227	746092.44	4706474.03	654.60
3228	746093.58	4706521.04	655.07
3229	746093.88	4706495.83	654.46

Punto	X	Y	Z
3230	746094.80	4706603.67	664.74
3231	746095.11	4706540.54	655.41
3232	746095.28	4706540.53	655.09
3233	746095.52	4706540.05	654.91
3234	746096.84	4706543.26	655.21
3235	746098.51	4706566.46	662.95
3236	746099.27	4706578.71	663.66
3237	746099.43	4706508.98	654.83
3238	746099.43	4706553.57	659.64
3239	746103.35	4706558.37	663.04
3240	746103.56	4706517.80	654.85
3241	746104.60	4706590.65	664.49
3242	746105.49	4706498.27	654.34
3243	746105.54	4706532.60	654.85
3244	746108.26	4706553.67	662.90
3245	746109.13	4706612.79	665.23
3246	746109.14	4706567.03	663.35
3247	746109.24	4706534.57	654.72
3248	746109.68	4706483.31	654.46
3249	746111.35	4706549.11	663.09
3250	746112.32	4706513.11	654.68
3251	746112.42	4706506.58	654.97
3252	746114.45	4706510.84	655.09
3253	746114.55	4706525.83	654.49
3254	746115.38	4706505.53	655.21
3255	746116.18	4706578.36	664.24
3256	746116.71	4706557.04	663.08
3257	746118.07	4706529.83	654.55
3258	746118.59	4706508.14	654.43
3259	746118.69	4706548.04	662.79
3260	746118.79	4706498.32	654.14
3261	746118.90	4706504.02	654.92
3262	746118.94	4706603.25	665.09
3263	746119.13	4706537.11	657.50
3264	746120.51	4706617.18	665.57
3265	746121.72	4706620.59	666.53
3266	746122.60	4706505.53	655.19
3267	746123.89	4706494.65	654.04
3268	746124.65	4706505.20	654.48

Punto	X	Y	Z
3269	746125.16	4706516.50	654.35
3270	746125.41	4706527.59	654.44
3271	746127.74	4706567.08	663.69
3272	746128.93	4706612.58	666.36
3273	746129.87	4706542.33	662.93
3274	746129.89	4706608.15	665.32
3275	746130.27	4706543.80	662.94
3276	746130.82	4706552.28	663.10
3277	746131.58	4706585.61	664.58
3278	746131.83	4706509.75	654.28
3279	746134.19	4706601.34	665.12
3280	746134.99	4706506.89	654.12
3281	746137.13	4706522.72	654.23
3282	746138.45	4706540.60	663.01
3283	746141.85	4706557.02	663.44
3284	746143.09	4706587.62	664.68
3285	746143.76	4706569.42	664.19
3286	746144.13	4706536.71	663.29
3287	746146.10	4706519.20	654.01
3288	746146.88	4706536.11	663.21
3289	746147.76	4706545.00	663.36
3290	746149.32	4706555.22	663.67
3291	746152.28	4706553.00	663.67
3292	746152.35	4706556.40	663.74
3293	746152.58	4706526.25	659.83
3294	746152.66	4706554.30	663.76
3295	746154.19	4706530.26	663.03
3296	746156.50	4706529.88	662.87
3297	746156.68	4706578.29	664.65
3298	746157.80	4706565.09	664.25
3299	746158.28	4706538.01	663.10
3300	746158.32	4706513.11	653.81
3301	746161.71	4706549.97	663.42
3302	746163.28	4706551.11	663.40
3303	746164.39	4706525.39	662.82
3304	746164.70	4706552.78	663.76
3305	746165.40	4706523.19	662.82
3306	746166.79	4706527.74	662.74

Punto	X	Y	Z
3307	746172.85	4706519.11	662.57
3308	746174.14	4706521.79	662.53

P.K. 4+180 Viaducto 2 sobre el Río Ara

Punto	X	Y	Z
2000	744257.44	4706776.01	678.61
2001	744257.48	4706787.49	678.68
2002	744258.66	4706774.45	678.70
2003	744260.04	4706772.28	674.78
2004	744262.77	4706769.52	674.51
2005	744263.16	4706805.86	678.51
2006	744263.87	4706795.75	678.50
2007	744265.45	4706780.79	678.44
2008	744266.27	4706778.18	674.86
2009	744266.80	4706845.40	682.01
2010	744266.90	4706849.59	682.30
2011	744267.81	4706844.53	682.20
2012	744268.85	4706824.20	678.82
2013	744269.71	4706785.44	678.18
2014	744270.74	4706773.71	674.15
2015	744271.69	4706810.38	678.38
2016	744272.47	4706839.70	679.44
2017	744276.82	4706843.08	679.38
2018	744277.63	4706781.55	674.11
2019	744277.77	4706837.44	679.22
2020	744278.31	4706850.82	681.91
2021	744279.29	4706876.14	683.56
2022	744280.40	4706793.00	677.75
2023	744281.59	4706769.10	673.92
2024	744281.83	4706851.53	682.05
2025	744282.36	4706790.91	677.59
2026	744282.47	4706790.26	674.92
2027	744283.27	4706866.24	682.45
2028	744283.73	4706786.98	673.92
2029	744284.25	4706804.85	677.58
2030	744284.57	4706846.23	679.18
2031	744284.70	4706827.70	678.35



Punto	X	Y	Z
2032	744286.12	4706899.50	684.97
2033	744286.93	4706893.66	684.23
2034	744288.02	4706775.22	673.83
2035	744288.69	4706851.29	679.17
2036	744288.89	4706784.69	673.80
2037	744289.45	4706878.96	682.80
2038	744289.49	4706818.49	677.93
2039	744290.65	4706802.05	677.37
2040	744290.91	4706906.01	684.55
2041	744291.16	4706901.76	683.81
2042	744291.88	4706904.42	683.82
2043	744292.05	4706859.56	681.75
2044	744292.80	4706899.00	684.09
2045	744294.31	4706764.30	673.71
2046	744295.52	4706860.69	681.72
2047	744296.59	4706836.16	678.36
2048	744297.37	4706759.30	673.85
2049	744297.38	4706805.30	677.37
2050	744297.97	4706886.27	682.53
2051	744298.32	4706855.78	678.75
2052	744298.46	4706904.95	683.81
2053	744298.48	4706792.16	673.61
2054	744298.55	4706804.10	674.95
2055	744298.55	4706775.63	673.69
2056	744299.02	4706776.72	673.75
2057	744299.08	4706844.42	678.39
2058	744300.28	4706898.31	682.92
2059	744300.56	4706809.59	677.18
2060	744301.07	4706818.23	677.22
2061	744301.36	4706774.89	673.73
2062	744301.47	4706783.81	673.66
2063	744301.52	4706900.45	682.74
2064	744301.70	4706764.81	673.90
2065	744302.26	4706902.99	682.87
2066	744302.44	4706905.18	683.28
2067	744302.48	4706861.83	678.71
2068	744302.89	4706797.71	673.75
2069	744303.21	4706810.62	677.20
2070	744303.27	4706765.38	673.89

Punto	X	Y	Z
2071	744303.45	4706869.64	681.24
2072	744303.87	4706761.79	674.21
2073	744304.40	4706811.61	677.08
2074	744305.12	4706810.77	675.52
2075	744305.16	4706869.99	681.37
2076	744305.74	4706760.46	673.87
2077	744305.74	4706771.90	673.75
2078	744306.04	4706776.93	673.78
2079	744306.13	4706907.62	683.00
2080	744306.16	4706768.82	673.80
2081	744306.22	4706896.30	682.47
2082	744306.54	4706817.66	677.11
2083	744306.56	4706817.06	677.79
2084	744306.96	4706772.33	673.85
2085	744307.24	4706852.22	678.37
2086	744307.80	4706905.18	682.60
2087	744307.85	4706774.47	673.68
2088	744308.35	4706826.97	677.21
2089	744308.98	4706768.12	674.23
2090	744309.25	4706888.54	681.64
2091	744309.30	4706772.76	673.98
2092	744309.51	4706810.98	674.71
2093	744309.66	4706896.29	681.61
2094	744309.85	4706898.09	681.90
2095	744310.88	4706901.51	682.17
2096	744311.16	4706810.86	674.91
2097	744311.20	4706865.82	678.41
2098	744311.24	4706824.26	675.45
2099	744311.38	4706799.98	674.61
2100	744311.49	4706901.07	682.08
2101	744311.56	4706901.95	681.99
2102	744311.95	4706824.15	675.56
2103	744312.31	4706837.51	677.40
2104	744312.39	4706781.10	673.57
2105	744312.66	4706873.78	680.30
2106	744313.11	4706872.69	679.63
2107	744313.42	4706811.09	674.89
2108	744313.70	4706876.37	680.91
2109	744313.72	4706834.78	676.10

Punto	X	Y	Z
2110	744313.81	4706745.43	673.94
2111	744314.46	4706834.45	676.18
2112	744314.68	4706783.16	674.08
2113	744314.77	4706823.68	675.51
2114	744314.81	4706891.56	681.43
2115	744314.94	4706779.00	673.82
2116	744315.04	4706821.53	675.45
2117	744315.28	4706795.28	674.45
2118	744315.49	4706758.46	673.80
2119	744315.66	4706804.74	674.61
2120	744315.72	4706813.44	674.91
2121	744315.92	4706771.48	673.63
2122	744316.38	4706796.67	674.34
2123	744316.50	4706848.32	677.73
2124	744316.78	4706817.10	675.21
2125	744316.92	4706834.06	676.10
2126	744317.14	4706795.46	674.34
2127	744317.25	4706818.46	675.23
2128	744317.39	4706831.62	676.11
2129	744317.47	4706824.68	675.90
2130	744317.66	4706891.56	680.48
2131	744317.82	4706824.46	675.87
2132	744318.05	4706846.60	676.62
2133	744318.09	4706794.99	674.17
2134	744318.16	4706893.69	680.68
2135	744318.18	4706807.38	673.68
2136	744318.66	4706882.68	680.54
2137	744318.77	4706846.06	676.83
2138	744318.84	4706810.61	673.57
2139	744318.92	4706824.09	676.22
2140	744318.97	4706778.34	674.88
2141	744319.00	4706798.37	673.67
2142	744319.34	4706777.85	673.74
2143	744319.34	4706903.82	681.34
2144	744319.42	4706826.64	676.67
2145	744319.45	4706782.88	674.20
2146	744319.54	4706788.01	674.36
2147	744319.88	4706741.57	672.00

Punto	X	Y	Z
2148	744320.16	4706826.40	676.82
2149	744320.35	4706898.47	680.94
2150	744320.52	4706889.57	679.93
2151	744320.59	4706895.64	680.79
2152	744321.06	4706789.44	674.11
2153	744321.07	4706856.13	677.30
2154	744321.14	4706845.23	676.89
2155	744321.28	4706872.87	678.27
2156	744321.54	4706885.36	680.34
2157	744321.57	4706860.34	677.82
2158	744321.84	4706843.18	677.21
2159	744322.18	4706781.61	674.86
2160	744322.20	4706900.00	680.85
2161	744322.28	4706855.60	677.45
2162	744322.43	4706781.40	674.28
2163	744323.05	4706790.01	674.02
2164	744323.12	4706747.13	672.15
2165	744323.26	4706830.95	676.54
2166	744323.60	4706781.82	674.06
2167	744323.99	4706830.93	676.78
2168	744324.09	4706881.52	679.74
2169	744324.66	4706854.53	677.48
2170	744324.69	4706886.56	679.65
2171	744324.77	4706809.13	673.36
2172	744324.92	4706883.13	679.28
2173	744324.93	4706866.95	677.99
2174	744325.20	4706896.38	680.36
2175	744325.37	4706784.56	674.11
2176	744325.49	4706764.11	673.63
2177	744325.55	4706873.93	678.27
2178	744325.73	4706771.76	673.49
2179	744325.77	4706855.46	677.72
2180	744326.20	4706866.59	678.14
2181	744326.20	4706824.20	673.40
2182	744326.43	4706883.82	679.36
2183	744326.92	4706888.82	680.01
2184	744327.16	4706876.80	678.74
2185	744327.20	4706794.45	673.68

Punto	X	Y	Z
2186	744327.88	4706875.75	678.73
2187	744328.35	4706892.51	680.01
2188	744328.80	4706866.58	678.23
2189	744329.26	4706884.28	679.61
2190	744329.39	4706865.35	678.12
2191	744329.57	4706774.71	673.64
2192	744329.62	4706838.78	676.52
2193	744329.67	4706756.92	673.36
2194	744329.73	4706847.27	676.94
2195	744329.87	4706829.09	673.23
2196	744329.98	4706838.46	676.71
2197	744330.01	4706774.33	673.70
2198	744330.51	4706875.74	679.03
2199	744330.66	4706885.77	679.41
2200	744330.98	4706870.69	678.31
2201	744331.45	4706772.21	676.15
2202	744331.72	4706785.88	673.74
2203	744331.74	4706878.94	678.96
2204	744331.95	4706781.48	673.49
2205	744332.26	4706765.11	673.60
2206	744332.41	4706777.86	673.61
2207	744332.48	4706854.88	677.12
2208	744333.35	4706764.91	676.49
2209	744333.50	4706765.18	676.35
2210	744334.46	4706860.48	677.28
2211	744334.96	4706803.88	673.38
2212	744335.15	4706768.80	676.36
2213	744335.44	4706755.47	671.42
2214	744335.71	4706893.11	679.12
2215	744335.77	4706761.87	672.71
2216	744335.93	4706878.07	678.29
2217	744336.04	4706785.61	673.41
2218	744336.19	4706762.53	676.63
2219	744336.22	4706767.82	676.49
2220	744336.35	4706767.93	676.52
2221	744336.37	4706765.28	676.51
2222	744336.43	4706780.16	673.10
2223	744336.72	4706762.78	676.66
2224	744337.05	4706777.49	673.37

Punto	X	Y	Z
2225	744337.20	4706784.43	673.67
2226	744337.26	4706766.37	676.54
2227	744337.27	4706827.03	673.17
2228	744337.56	4706764.29	676.54
2229	744337.68	4706850.70	676.35
2230	744338.44	4706765.34	676.54
2231	744338.57	4706764.63	676.71
2232	744338.80	4706765.25	676.55
2233	744338.97	4706850.20	676.72
2234	744339.08	4706765.53	672.62
2235	744339.16	4706755.66	671.85
2236	744339.43	4706787.12	673.37
2237	744340.12	4706895.30	678.66
2238	744340.62	4706782.51	673.07
2239	744341.36	4706787.57	673.92
2240	744341.74	4706868.56	677.08
2241	744341.77	4706814.60	673.26
2242	744342.50	4706780.08	673.08
2243	744342.87	4706804.77	673.41
2244	744342.99	4706791.38	673.32
2245	744343.37	4706880.58	677.83
2246	744343.58	4706790.32	673.88
2247	744344.00	4706776.00	672.74
2248	744345.46	4706846.24	672.78
2249	744345.50	4706865.32	676.56
2250	744345.83	4706786.05	672.93
2251	744346.07	4706771.53	672.69
2252	744346.17	4706762.84	671.61
2253	744346.68	4706864.67	677.00
2254	744347.40	4706783.25	672.97
2255	744348.51	4706767.56	671.94
2256	744348.94	4706751.26	676.75
2257	744350.37	4706753.55	677.19
2258	744351.00	4706890.22	677.63
2259	744351.23	4706844.88	672.97
2260	744351.64	4706871.84	676.66
2261	744352.44	4706769.50	671.85
2262	744352.55	4706870.48	677.13
2263	744352.57	4706783.66	673.20

Punto	X	Y	Z
2264	744352.59	4706833.12	673.04
2265	744353.44	4706853.64	673.07
2266	744353.46	4706836.71	673.01
2267	744353.63	4706830.13	673.16
2268	744353.67	4706803.98	673.20
2269	744354.28	4706835.49	673.30
2270	744354.30	4706794.33	672.69
2271	744354.66	4706803.45	674.25
2272	744354.66	4706829.56	673.16
2273	744354.93	4706765.42	671.11
2274	744355.11	4706881.34	677.01
2275	744355.55	4706793.53	672.69
2276	744355.75	4706814.81	673.20
2277	744357.25	4706809.22	673.17
2278	744357.81	4706831.88	673.51
2279	744357.86	4706839.75	673.11
2280	744357.95	4706842.13	672.87
2281	744358.68	4706808.38	674.09
2282	744358.72	4706742.04	676.82
2283	744358.91	4706831.97	673.31
2284	744359.13	4706791.66	673.14
2285	744360.46	4706743.94	676.77
2286	744361.41	4706836.53	673.66
2287	744361.44	4706878.11	676.18
2288	744362.50	4706876.72	676.67
2289	744363.04	4706802.46	672.46
2290	744363.82	4706801.09	672.60
2291	744364.14	4706836.42	672.97
2292	744364.72	4706799.51	672.95
2293	744365.06	4706779.86	672.16
2294	744365.19	4706785.56	672.14
2295	744366.41	4706890.77	676.37
2296	744367.00	4706820.37	673.10
2297	744367.01	4706777.61	671.07
2298	744368.12	4706819.27	673.99
2299	744370.55	4706882.14	676.17
2300	744371.31	4706861.38	672.84
2301	744371.88	4706845.18	672.96

Punto	X	Y	Z
2302	744373.15	4706870.07	672.74
2303	744373.71	4706785.14	671.06
2304	744374.05	4706724.97	671.64
2305	744374.67	4706886.73	675.63
2306	744375.29	4706819.04	672.29
2307	744375.61	4706799.48	672.09
2308	744376.06	4706819.12	672.26
2309	744376.30	4706886.09	675.69
2310	744377.74	4706793.19	671.82
2311	744378.09	4706817.58	672.27
2312	744379.35	4706816.43	672.83
2313	744380.05	4706853.51	672.89
2314	744381.23	4706835.06	673.02
2315	744381.91	4706835.26	673.00
2316	744382.20	4706795.82	671.02
2317	744383.11	4706827.07	672.17
2318	744383.47	4706826.75	672.16
2319	744384.03	4706831.56	672.98
2320	744384.21	4706870.37	672.72
2321	744385.05	4706880.73	672.72
2322	744385.41	4706824.72	672.20
2323	744386.54	4706812.08	672.35
2324	744387.12	4706860.94	672.80
2325	744387.55	4706823.72	672.48
2326	744387.98	4706831.36	672.13
2327	744388.23	4706830.09	672.10
2328	744389.72	4706827.54	672.12
2329	744390.61	4706845.80	673.08
2330	744390.74	4706837.92	672.93
2331	744391.20	4706847.17	672.78
2332	744391.55	4706844.84	673.51
2333	744393.63	4706826.35	672.50
2334	744394.33	4706839.66	672.27
2335	744395.09	4706827.41	672.44
2336	744396.02	4706891.48	672.30
2337	744396.28	4706852.38	673.02
2338	744396.56	4706842.92	672.47
2339	744397.07	4706736.11	675.22



Punto	X	Y	Z
2340	744398.25	4706872.21	672.66
2341	744398.68	4706735.02	674.29
2342	744398.80	4706841.19	672.24
2343	744399.20	4706831.34	671.61
2344	744399.68	4706886.70	672.39
2345	744399.83	4706834.42	671.63
2346	744400.03	4706824.98	672.09
2347	744400.94	4706848.30	672.56
2348	744401.68	4706734.04	676.33
2349	744403.86	4706852.72	673.24
2350	744405.33	4706731.78	677.29
2351	744407.66	4706833.71	670.89
2352	744408.32	4706844.57	672.28
2353	744408.38	4706855.61	672.53
2354	744409.52	4706763.94	671.02
2355	744409.84	4706853.69	672.45
2356	744410.22	4706747.42	675.22
2357	744410.58	4706838.75	670.91
2358	744411.02	4706830.55	670.96
2359	744411.25	4706878.99	672.44
2360	744411.37	4706730.01	677.41
2361	744411.64	4706834.25	670.61
2362	744412.66	4706746.71	674.22
2363	744412.78	4706746.69	674.20
2364	744414.41	4706733.36	677.29
2365	744414.69	4706745.22	675.04
2366	744414.80	4706752.42	675.41
2367	744416.32	4706750.76	674.13
2368	744416.62	4706845.59	671.59
2369	744418.10	4706876.47	672.47
2370	744418.98	4706739.84	676.86
2371	744420.45	4706871.52	673.11
2372	744422.89	4706731.16	677.37
2373	744424.92	4706869.33	672.64
2374	744425.11	4706859.71	671.73
2375	744428.20	4706763.48	675.17
2376	744428.31	4706745.86	676.66
2377	744430.82	4706734.06	677.18
2378	744432.80	4706871.88	671.99

Punto	X	Y	Z
2379	744432.89	4706734.12	677.22
2380	744434.31	4706753.14	676.06
2381	744435.05	4706744.32	676.54
2382	744435.20	4706715.98	677.93
2383	744436.69	4706743.76	676.52
2384	744436.82	4706773.74	675.27
2385	744437.85	4706756.03	675.85
2386	744437.94	4706770.66	674.93
2387	744438.16	4706733.47	676.86
2388	744438.23	4706720.15	677.09
2389	744438.94	4706777.60	675.11
2390	744439.36	4706756.73	675.78
2391	744439.67	4706770.81	674.95
2392	744439.73	4706770.75	674.92
2393	744439.88	4706761.54	675.58
2394	744440.02	4706751.80	676.04
2395	744440.23	4706769.67	674.12
2396	744440.61	4706742.65	676.52
2397	744440.62	4706790.70	670.98
2398	744440.93	4706769.09	675.12
2399	744441.12	4706774.67	674.72
2400	744441.34	4706768.06	675.30
2401	744441.35	4706771.43	674.88
2402	744441.35	4706768.08	675.29
2403	744441.38	4706767.32	675.27
2404	744441.98	4706756.54	675.77
2405	744442.43	4706786.20	672.27
2406	744443.37	4706758.72	675.68
2407	744443.68	4706775.04	674.66
2408	744443.83	4706771.26	674.99
2409	744443.95	4706767.88	675.27
2410	744443.96	4706773.25	674.82
2411	744444.19	4706774.34	674.78
2412	744444.20	4706784.08	674.30
2413	744444.39	4706775.36	674.77
2414	744444.41	4706772.72	674.02
2415	744444.63	4706771.95	674.85
2416	744444.70	4706771.97	674.86
2417	744444.83	4706757.75	676.22

Punto	X	Y	Z
2418	744444.91	4706764.67	675.62
2419	744445.10	4706771.48	674.98
2420	744445.47	4706783.12	674.39
2421	744446.79	4706884.77	670.81
2422	744447.24	4706781.57	674.30
2423	744449.15	4706779.85	674.91
2424	744450.78	4706755.13	676.42
2425	744453.48	4706763.61	676.66
2426	744453.95	4706721.48	676.53
2427	744454.36	4706762.56	676.61
2428	744455.68	4706770.61	676.61
2429	744456.41	4706793.31	674.10
2430	744456.95	4706731.08	676.41
2431	744457.57	4706746.15	676.17
2432	744457.79	4706791.74	674.19
2433	744458.92	4706787.34	674.65
2434	744460.46	4706761.54	676.18
2435	744460.65	4706800.84	673.99
2436	744462.33	4706799.41	673.95
2437	744463.22	4706714.92	676.51
2438	744463.89	4706786.43	674.15
2439	744464.07	4706798.10	674.09
2440	744465.30	4706775.80	676.43
2441	744465.36	4706785.74	675.38
2442	744465.68	4706738.83	676.18
2443	744466.40	4706774.89	676.46
2444	744467.04	4706774.25	676.54
2445	744468.21	4706783.13	676.09
2446	744469.30	4706793.05	673.89
2447	744469.55	4706795.16	674.66
2448	744470.12	4706771.26	676.27
2449	744470.33	4706791.18	675.31
2450	744472.11	4706752.46	676.10
2451	744472.34	4706809.99	673.68
2452	744472.72	4706822.06	670.89
2453	744473.14	4706724.66	676.22
2454	744473.77	4706808.71	673.76
2455	744474.95	4706764.71	676.12

Punto	X	Y	Z
2456	744475.01	4706818.19	673.74
2457	744477.22	4706789.41	676.05
2458	744477.37	4706815.53	673.60
2459	744478.51	4706788.03	676.03
2460	744479.76	4706739.43	676.18
2461	744480.51	4706709.10	676.25
2462	744480.70	4706757.07	676.22
2463	744481.50	4706783.70	676.18
2464	744481.63	4706804.02	674.66
2465	744482.84	4706800.37	673.94
2466	744483.66	4706799.88	675.43
2467	744485.04	4706798.56	675.70
2468	744485.55	4706779.94	676.08
2469	744487.20	4706788.92	676.10
2470	744487.22	4706825.21	673.39
2471	744487.64	4706718.78	676.15
2472	744488.19	4706793.28	676.34
2473	744488.26	4706799.62	675.88
2474	744488.65	4706813.06	674.88
2475	744489.05	4706823.63	673.49
2476	744492.01	4706733.16	675.98
2477	744492.14	4706833.95	673.29
2478	744492.17	4706800.55	675.89
2479	744492.55	4706763.76	676.03
2480	744492.72	4706773.52	675.95
2481	744492.92	4706799.90	675.89
2482	744493.01	4706799.59	676.30
2483	744493.87	4706831.44	673.26
2484	744494.26	4706814.53	673.82
2485	744494.38	4706795.62	676.03
2486	744494.74	4706814.02	674.84
2487	744495.61	4706829.51	673.29
2488	744495.68	4706703.15	676.08
2489	744497.23	4706750.00	675.98
2490	744497.42	4706809.68	676.14
2491	744501.70	4706809.06	676.16
2492	744502.66	4706808.49	676.64
2493	744502.69	4706787.50	675.87

Punto	X	Y	Z
2494	744502.70	4706802.08	676.06
2495	744503.02	4706812.80	676.22
2496	744503.14	4706841.17	673.26
2497	744503.33	4706733.39	675.91
2498	744503.91	4706838.44	672.95
2499	744504.06	4706835.77	673.00
2500	744504.14	4706769.57	675.84
2501	744504.27	4706826.66	674.62
2502	744504.30	4706854.38	670.81
2503	744504.77	4706826.14	673.81
2504	744505.57	4706852.08	671.40
2505	744506.04	4706822.63	675.07
2506	744507.60	4706819.83	676.29
2507	744511.13	4706759.46	675.91
2508	744511.41	4706817.60	676.39
2509	744512.48	4706811.50	676.04
2510	744512.51	4706854.11	672.97
2511	744512.64	4706798.43	675.79
2512	744513.66	4706848.92	672.85
2513	744514.34	4706823.59	676.54
2514	744515.60	4706846.04	672.80
2515	744516.97	4706833.00	675.26
2516	744517.96	4706785.03	675.67
2517	744522.73	4706829.36	676.67
2518	744523.59	4706805.67	675.82
2519	744524.20	4706822.71	676.18
2520	744524.50	4706834.92	676.70
2521	744524.74	4706846.55	673.52
2522	744526.21	4706843.82	675.21
2523	744529.57	4706841.58	676.50
2524	744530.34	4706828.97	676.35

P.K. 9+350 Paso sobre el Barranco de Santiago

Punto	X	Y	Z
1000	739520.35	4708015.64	739.11
1001	739522.27	4708023.69	739.22
1002	739526.37	4708009.95	735.15
1003	739528.59	4708027.14	739.57

Punto	X	Y	Z
1004	739531.16	4708014.75	738.79
1005	739533.91	4707999.12	735.19
1006	739534.00	4708031.25	743.35
1007	739534.48	4707991.55	735.79
1008	739534.78	4708029.42	743.07
1009	739537.05	4708031.92	743.01
1010	739537.67	4708009.91	735.65
1011	739537.89	4707987.24	732.51
1012	739538.57	4707993.08	735.56
1013	739539.23	4708026.57	739.43
1014	739540.05	4708020.66	739.17
1015	739540.68	4707976.96	730.15
1016	739540.81	4707978.51	732.07
1017	739541.52	4707966.98	730.08
1018	739542.13	4708031.96	743.44
1019	739542.20	4708032.57	743.26
1020	739542.60	4708007.25	735.97
1021	739543.10	4707973.15	730.08
1022	739543.94	4708028.73	742.29
1023	739545.59	4708014.52	738.90
1024	739546.88	4708030.57	742.68
1025	739547.44	4708038.12	746.72
1026	739547.50	4708032.41	743.31
1027	739547.59	4708027.54	741.58
1028	739547.60	4707965.55	728.43
1029	739548.70	4707984.28	732.19
1030	739548.78	4707953.85	728.21
1031	739548.97	4708037.36	746.70
1032	739549.14	4708001.00	735.44
1033	739549.20	4708036.41	746.56
1034	739549.95	4707958.74	728.26
1035	739550.11	4708023.88	739.52
1036	739550.28	4708029.23	741.79
1037	739550.39	4708024.96	740.78
1038	739550.88	4708014.24	738.95
1039	739551.64	4707977.63	730.55
1040	739551.98	4707983.75	730.49
1041	739552.10	4707970.45	730.30
1042	739552.26	4708008.95	736.22

Punto	X	Y	Z
1043	739553.21	4707989.59	732.83
1044	739553.27	4708012.75	738.95
1045	739554.24	4707960.52	728.88
1046	739554.85	4707964.94	728.67
1047	739555.19	4707944.73	730.49
1048	739555.85	4708029.20	741.58
1049	739556.62	4708044.39	746.45
1050	739556.74	4708018.51	739.29
1051	739556.94	4707993.05	735.63
1052	739557.00	4708043.67	746.72
1053	739557.02	4708043.37	746.72
1054	739557.19	4708038.87	746.72
1055	739557.36	4708013.26	739.02
1056	739557.44	4708038.45	746.71
1057	739557.75	4707983.99	730.65
1058	739557.80	4708036.19	746.40
1059	739557.94	4707986.78	732.46
1060	739558.09	4708025.38	741.15
1061	739558.54	4708032.03	743.44
1062	739558.96	4707955.02	728.44
1063	739560.04	4707988.72	732.67
1064	739560.52	4708029.53	741.70
1065	739560.60	4707979.62	730.85
1066	739560.61	4707971.16	729.53
1067	739561.14	4708033.70	743.51
1068	739562.00	4707947.68	731.00
1069	739562.10	4708033.20	743.76
1070	739562.31	4708026.64	741.31
1071	739562.38	4708024.95	739.84
1072	739562.53	4708003.74	735.88
1073	739563.46	4707974.62	730.88
1074	739563.62	4707940.25	731.17
1075	739563.84	4708030.57	743.46
1076	739563.94	4708013.85	739.11
1077	739563.96	4707989.45	731.17
1078	739563.98	4707963.37	729.70
1079	739564.17	4707925.63	730.78
1080	739564.30	4707960.43	728.54

Punto	X	Y	Z
1081	739564.75	4707929.80	729.14
1082	739564.86	4707968.07	729.31
1083	739564.88	4707924.82	730.78
1084	739565.03	4708010.14	736.29
1085	739565.16	4707924.01	729.87
1086	739565.55	4707995.49	735.61
1087	739566.17	4708027.24	741.87
1088	739566.43	4707971.82	730.10
1089	739568.61	4707951.24	731.85
1090	739569.62	4708025.07	740.14
1091	739569.89	4707918.90	729.84
1092	739570.31	4708036.38	746.60
1093	739570.31	4708000.59	735.97
1094	739570.48	4707996.57	732.68
1095	739570.49	4707957.96	728.71
1096	739570.62	4707992.21	731.59
1097	739570.75	4708033.50	743.90
1098	739571.14	4707987.50	731.40
1099	739571.74	4707981.05	731.08
1100	739571.95	4708014.38	739.34
1101	739572.27	4708004.95	736.20
1102	739573.09	4707928.46	731.06
1103	739573.22	4708023.48	740.14
1104	739573.26	4708011.14	736.64
1105	739573.76	4708000.51	733.12
1106	739573.80	4708019.89	739.90
1107	739574.51	4707927.64	730.14
1108	739574.54	4708028.78	742.84
1109	739574.55	4707912.53	730.00
1110	739574.59	4707980.42	730.77
1111	739574.86	4707997.11	732.81
1112	739574.99	4707972.58	730.09
1113	739575.07	4708024.02	740.72
1114	739575.41	4708049.97	751.46
1115	739575.52	4707968.77	729.88
1116	739576.03	4707965.07	729.32
1117	739576.20	4708016.68	739.72
1118	739576.34	4708015.85	739.62



Punto	X	Y	Z
1119	739576.48	4707908.92	729.87
1120	739576.77	4707956.50	732.10
1121	739576.84	4708034.85	745.27
1122	739576.98	4707993.64	731.52
1123	739577.02	4707962.16	729.05
1124	739577.21	4707907.80	730.56
1125	739577.32	4708010.93	736.66
1126	739577.72	4708054.31	753.72
1127	739578.34	4708040.00	746.91
1128	739578.84	4708046.20	746.62
1129	739579.04	4707908.92	730.88
1130	739579.12	4708046.75	745.56
1131	739579.30	4708028.18	741.63
1132	739579.35	4707979.05	731.08
1133	739579.40	4708046.31	746.62
1134	739579.41	4708019.33	739.58
1135	739579.61	4708024.41	740.74
1136	739579.81	4708040.16	745.26
1137	739579.98	4707947.84	732.02
1138	739580.45	4707936.53	731.70
1139	739580.45	4708006.58	733.48
1140	739580.61	4708040.33	746.74
1141	739580.78	4707940.34	730.87
1142	739581.15	4707924.71	729.98
1143	739581.64	4707914.56	730.16
1144	739581.74	4708036.29	744.98
1145	739581.96	4708053.03	752.47
1146	739582.00	4707970.95	729.70
1147	739582.20	4708034.15	743.18
1148	739582.76	4707952.61	732.40
1149	739582.97	4707998.79	733.02
1150	739583.01	4708028.18	741.35
1151	739583.69	4707929.41	730.64
1152	739584.18	4708047.75	746.51
1153	739584.22	4707958.96	732.49
1154	739584.58	4708055.58	754.43
1155	739584.83	4708047.06	746.86
1156	739584.85	4708042.20	746.90
1157	739584.93	4708041.82	746.92

Punto	X	Y	Z
1158	739584.96	4708046.68	746.86
1159	739585.06	4707930.99	731.93
1160	739585.33	4708014.74	735.18
1161	739586.13	4708000.12	733.47
1162	739586.28	4708039.94	747.15
1163	739586.72	4708033.07	742.65
1164	739586.77	4708050.07	748.32
1165	739586.83	4707910.88	730.46
1166	739587.94	4708035.52	743.09
1167	739588.91	4707910.02	731.79
1168	739589.68	4707979.17	730.36
1169	739589.69	4708000.33	733.27
1170	739590.85	4708057.96	754.57
1171	739591.44	4707959.50	732.66
1172	739591.86	4708011.04	733.98
1173	739591.92	4708034.06	742.58
1174	739592.62	4707950.15	732.34
1175	739592.98	4707975.24	730.28
1176	739593.15	4708058.06	754.36
1177	739593.17	4707921.50	732.00
1178	739593.41	4708026.44	735.79
1179	739593.43	4707933.73	732.41
1180	739593.51	4708041.62	746.73
1181	739593.71	4707945.55	732.07
1182	739593.76	4707936.05	732.07
1183	739594.14	4708059.35	754.45
1184	739594.31	4708016.55	735.27
1185	739595.03	4708038.20	743.04
1186	739595.30	4708007.34	733.98
1187	739595.32	4708062.62	757.07
1188	739595.44	4707942.33	732.87
1189	739595.57	4707972.44	731.95
1190	739595.64	4707928.26	732.29
1191	739595.99	4708002.71	733.49
1192	739596.50	4708037.13	742.97
1193	739596.75	4707915.01	731.88
1194	739597.81	4707991.95	732.55
1195	739598.08	4707989.24	731.04
1196	739598.37	4707994.83	732.52

Punto	X	Y	Z
1197	739599.30	4708053.57	748.63
1198	739599.70	4707976.59	732.12
1199	739599.79	4708051.29	746.75
1200	739599.95	4708050.25	747.02
1201	739599.96	4708049.95	747.05
1202	739600.28	4707970.26	732.30
1203	739600.89	4708029.08	736.09
1204	739600.89	4708045.03	747.02
1205	739601.03	4708041.12	746.76
1206	739601.07	4708044.67	747.02
1207	739601.42	4707947.97	732.32
1208	739602.07	4707984.16	730.97
1209	739602.08	4707925.35	732.39
1210	739602.30	4707915.70	731.82
1211	739602.36	4707962.55	733.12
1212	739602.57	4708002.98	732.99
1213	739603.51	4707945.28	733.44
1214	739603.53	4708018.22	735.34
1215	739603.57	4707927.86	732.89
1216	739604.29	4707979.89	734.00
1217	739604.69	4707935.64	733.12
1218	739605.38	4708065.37	756.66
1219	739605.40	4707954.03	732.65
1220	739605.75	4708027.19	735.88
1221	739606.23	4708002.78	732.13
1222	739606.80	4707926.39	733.23
1223	739607.07	4708000.70	731.71
1224	739607.11	4708019.36	734.08
1225	739607.21	4707977.31	732.34
1226	739607.46	4707989.58	731.41
1227	739607.47	4708035.65	739.23
1228	739607.71	4708011.81	733.58
1229	739608.91	4708028.91	735.88
1230	739609.51	4707983.15	734.25
1231	739609.81	4708058.19	752.54
1232	739609.92	4708062.83	754.55
1233	739610.28	4708053.97	746.99
1234	739610.64	4708053.68	747.02

Punto	X	Y	Z
1235	739611.06	4708053.72	747.08
1236	739611.82	4708065.30	755.61
1237	739612.73	4708068.51	756.89
1238	739612.88	4707919.53	732.83
1239	739612.93	4708028.46	737.29
1240	739613.19	4708044.64	747.20
1241	739613.61	4708026.08	735.66
1242	739613.61	4708049.38	747.28
1243	739613.77	4708049.08	747.27
1244	739615.26	4708024.36	734.45
1245	739615.50	4708032.12	738.36
1246	739615.75	4707954.53	733.19
1247	739615.90	4708066.01	754.43
1248	739616.03	4707982.46	733.03
1249	739616.13	4707963.67	733.28
1250	739616.18	4708069.91	756.34
1251	739616.28	4708008.69	732.91
1252	739616.61	4708029.04	737.43
1253	739617.22	4708038.37	741.15
1254	739617.29	4707930.85	734.15
1255	739617.59	4707942.66	734.12
1256	739618.24	4707992.30	734.51
1257	739618.32	4708006.89	732.05
1258	739618.33	4708026.25	734.60
1259	739618.68	4708065.46	753.87
1260	739618.72	4708059.76	747.22
1261	739619.17	4708059.36	747.29
1262	739619.31	4708059.27	747.32
1263	739619.49	4707971.84	733.12
1264	739619.93	4708071.73	754.49
1265	739621.53	4708047.87	747.35
1266	739621.59	4708017.78	733.77
1267	739622.02	4708066.41	752.21
1268	739622.11	4708034.63	738.16
1269	739622.15	4708076.36	755.91
1270	739622.48	4707924.63	733.29
1271	739622.82	4707982.60	733.87
1272	739623.62	4708077.60	755.46

Punto	X	Y	Z
1273	739624.28	4708056.44	747.64
1274	739624.44	4707977.23	733.44
1275	739624.50	4708056.29	747.65
1276	739624.79	4708075.11	754.44
1277	739625.11	4708004.63	732.01
1278	739625.60	4708072.39	749.98
1279	739625.81	4707957.10	734.05
1280	739625.86	4707966.65	734.01
1281	739626.35	4708050.85	747.54
1282	739626.35	4707945.13	734.24
1283	739627.04	4708036.42	737.63
1284	739628.20	4707993.10	734.10
1285	739628.37	4708079.49	754.17
1286	739628.49	4708053.04	747.62
1287	739628.51	4708071.31	747.59
1288	739628.61	4708034.18	737.54
1289	739629.10	4708019.17	734.11
1290	739629.27	4708070.73	747.84
1291	739629.29	4708037.42	736.70
1292	739629.36	4708031.66	735.00
1293	739629.39	4708070.63	747.86
1294	739629.41	4708001.36	734.79
1295	739629.82	4708026.75	734.71
1296	739629.88	4708081.75	753.62
1297	739630.39	4707995.32	734.83
1298	739630.51	4707938.79	734.40
1299	739630.68	4707983.03	734.56
1300	739630.71	4708018.07	734.40
1301	739631.31	4708078.17	750.27
1379	739652.38	4708007.64	735.35
1380	739652.70	4707962.49	736.38
1381	739652.99	4708059.99	738.08
1382	739653.11	4707954.08	736.20
1383	739653.20	4708048.13	734.78
1384	739653.22	4708083.82	742.48
1385	739653.84	4708027.36	734.23
1386	739654.38	4708055.49	735.01
1387	739654.40	4708063.34	736.55
1388	739654.48	4707983.85	736.79

Punto	X	Y	Z
1389	739654.64	4708033.32	734.53
1390	739655.47	4708069.43	737.37
1391	739655.61	4708062.84	736.25
1392	739656.46	4708087.53	742.28
1393	739656.59	4707995.09	736.18
1394	739656.79	4708058.35	735.49
1395	739657.08	4708022.81	735.71
1396	739657.13	4707955.30	736.10
1397	739657.40	4708020.15	735.83
1398	739657.53	4708017.75	736.73
1399	739657.72	4707959.30	737.16
1400	739657.86	4707991.51	736.33
1401	739657.88	4708041.92	734.78
1402	739658.30	4708086.52	742.26
1403	739658.34	4707944.19	739.01
1404	739659.08	4707998.18	736.23
1405	739659.46	4707953.94	736.14
1406	739659.72	4708083.30	740.66
1407	739659.83	4708079.69	739.54
1408	739660.58	4708079.14	738.28
1409	739661.30	4708063.94	736.30
1410	739661.68	4708074.28	736.95
1411	739662.28	4708058.41	735.44
1412	739662.47	4707992.43	736.44
1413	739662.65	4708036.95	737.17
1414	739663.48	4708013.15	736.58
1415	739663.69	4708053.81	736.58
1416	739663.76	4707949.46	737.77
1417	739664.08	4707953.10	737.73
1418	739664.20	4707969.01	738.04
1419	739664.21	4707972.32	736.75
1420	739664.69	4708030.35	736.85
1421	739664.84	4708061.32	737.34
1422	739665.12	4707967.73	736.69
1423	739665.51	4707960.41	736.20
1424	739666.08	4708004.08	736.51
1425	739667.35	4707972.72	738.56
1426	739667.55	4708037.98	737.51
1427	739667.67	4707987.40	737.28

Punto	X	Y	Z
1428	739667.89	4708066.44	737.25
1429	739667.94	4707965.21	737.95
1430	739668.10	4708048.71	737.26
1431	739668.29	4708044.44	737.33
1432	739668.43	4708033.84	737.38
1433	739668.55	4708082.44	737.64
1434	739668.57	4707969.57	736.74
1435	739668.88	4708018.69	736.99
1436	739669.01	4707972.43	737.48
1437	739669.69	4707954.77	737.55
1438	739670.55	4707995.95	737.94
1439	739670.92	4708057.04	736.85
1440	739671.12	4708071.88	737.62
1441	739671.18	4708075.11	737.31
1442	739671.34	4707959.21	736.37
1443	739671.39	4708064.16	736.98
1444	739671.70	4707957.61	737.00
1445	739671.76	4708033.92	737.92
1446	739672.47	4707981.01	737.84
1447	739673.27	4708054.37	738.24
1448	739673.32	4707956.70	736.38
1449	739674.44	4707953.24	736.27
1450	739674.46	4708007.72	737.92
1451	739674.70	4707968.06	736.56
1452	739674.84	4708068.81	737.40
1453	739675.86	4707958.65	737.41
1454	739675.89	4708025.65	738.34
1455	739675.96	4708016.20	738.25
1456	739676.51	4707966.17	736.51
1457	739676.85	4708070.52	738.75
1458	739677.20	4707968.87	737.48
1459	739677.37	4708031.40	738.33
1460	739678.79	4708047.86	738.31
1461	739680.92	4707999.25	738.03
1462	739680.94	4707969.06	737.80
1463	739681.11	4708033.27	738.43
1464	739681.63	4707985.39	737.79
1465	739682.05	4708038.39	738.31

Punto	X	Y	Z
1466	739682.06	4707992.23	737.91
1467	739682.19	4708008.25	738.07
1468	739682.36	4707998.23	738.16
1469	739685.55	4707962.90	737.01
1470	739685.88	4708030.93	738.47
1471	739685.90	4707974.56	737.70
1472	739686.82	4708027.22	738.30
1473	739687.70	4707964.56	737.52
1474	739688.76	4708020.51	738.39
1475	739689.06	4707996.23	738.04
1476	739689.28	4707967.83	737.43
1477	739691.00	4707967.85	737.47
1478	739691.99	4708017.72	738.30
1479	739692.37	4707986.49	737.88
1480	739693.27	4708017.14	738.71
1481	739694.79	4708003.99	738.36
1482	739695.14	4708019.30	738.93
1483	739698.18	4707985.30	737.89
1484	739699.14	4707960.82	737.00
1485	739700.17	4707983.58	738.06
1486	739701.21	4708014.66	738.85
1487	739703.50	4707996.35	738.34
1488	739704.80	4707994.75	738.79
1489	739707.10	4707973.18	737.69
1490	739712.36	4707978.89	738.19

P.K. 12+410 Viaducto



Punto	X	Y	Z
1	736884.00	4709563.43	751.61
2	736887.52	4709558.24	751.43
3	736890.46	4709561.86	751.59
4	736895.46	4709546.49	751.20
5	736895.88	4709546.61	751.38
6	736896.87	4709567.67	754.43
7	736897.04	4709559.65	754.60
8	736898.01	4709558.58	754.46
9	736899.69	4709553.11	754.49
10	736899.83	4709569.41	754.55
11	736900.12	4709558.88	754.89
12	736900.52	4709560.90	754.80
13	736900.58	4709547.57	754.05
14	736900.68	4709547.60	754.06
15	736900.84	4709558.91	755.13
16	736900.92	4709543.60	754.01
17	736901.06	4709558.46	755.32
18	736901.81	4709553.60	754.66
19	736902.87	4709560.09	755.44
20	736903.06	4709547.87	754.22
21	736904.96	4709544.76	754.10
22	736905.56	4709554.06	756.97
23	736905.57	4709560.91	758.48
24	736905.61	4709562.10	758.65
25	736906.68	4709530.90	751.12
26	736906.99	4709530.78	751.19
27	736907.02	4709556.51	756.84
28	736907.50	4709558.10	758.36
29	736907.62	4709531.21	753.90
30	736907.73	4709570.97	759.01
31	736908.45	4709535.63	754.36
32	736908.66	4709578.44	759.58
33	736908.99	4709550.88	758.05
34	736909.08	4709581.86	759.77
35	736910.24	4709572.67	759.58
36	736911.03	4709536.36	754.20
37	736911.46	4709574.64	759.67

Punto	X	Y	Z
38	736912.18	4709555.59	758.22
39	736912.30	4709543.71	757.76
40	736912.52	4709572.16	759.22
41	736912.60	4709555.08	758.12
42	736912.81	4709522.55	751.86
43	736912.88	4709555.20	758.12
44	736912.92	4709522.91	754.17
45	736912.97	4709578.00	759.85
46	736913.79	4709543.02	757.81
47	736914.70	4709540.72	757.81
48	736915.27	4709585.45	759.47
49	736915.91	4709572.84	759.53
50	736916.14	4709572.59	759.65
51	736916.16	4709585.76	759.47
52	736916.72	4709530.56	754.47
53	736916.80	4709573.25	759.76
54	736916.81	4709538.54	757.81
55	736916.84	4709586.33	758.92
56	736917.44	4709567.85	759.17
57	736917.99	4709571.72	759.81
58	736920.21	4709591.05	762.33
59	736920.86	4709535.37	757.81
60	736920.87	4709577.68	759.43
61	736921.43	4709513.54	752.82
62	736921.52	4709576.81	759.38
63	736921.87	4709514.46	754.16
64	736922.07	4709577.15	759.35
65	736922.07	4709584.55	762.28
66	736922.43	4709577.61	759.16
67	736922.46	4709528.99	755.10
68	736922.58	4709587.36	762.33
69	736922.95	4709565.90	759.83
70	736923.29	4709526.98	754.59
71	736923.87	4709563.88	759.66
72	736923.91	4709563.93	759.76
73	736924.51	4709564.20	759.77
74	736925.05	4709559.98	759.25
75	736926.06	4709533.91	757.95
76	736926.08	4709522.03	754.73

Punto	X	Y	Z
77	736926.39	4709570.71	759.58
78	736926.82	4709507.38	752.81
79	736926.93	4709507.64	753.99
80	736927.04	4709528.32	755.19
81	736927.24	4709588.63	762.87
82	736927.53	4709576.45	762.38
83	736927.58	4709528.66	756.62
84	736928.37	4709568.35	759.52
85	736928.84	4709568.71	759.49
86	736929.08	4709568.85	759.35
87	736929.14	4709559.10	759.90
88	736929.74	4709596.11	763.63
89	736929.94	4709599.88	766.28
90	736930.06	4709557.25	759.76
91	736930.41	4709557.34	759.80
92	736930.43	4709574.92	762.95
93	736930.67	4709557.47	759.83
94	736930.98	4709554.48	759.77
95	736931.29	4709599.58	766.31
96	736931.70	4709501.46	752.87
97	736931.74	4709550.85	759.15
98	736931.87	4709501.50	753.71
99	736932.17	4709555.85	759.98
100	736932.18	4709564.08	759.73
101	736932.18	4709564.06	759.74
102	736932.33	4709552.72	759.79
103	736932.40	4709596.99	766.07
104	736932.89	4709577.89	763.53
105	736933.00	4709533.26	757.67
106	736933.50	4709593.80	765.95
107	736934.17	4709593.97	765.91
108	736934.41	4709602.59	766.45
109	736934.82	4709602.45	766.44
110	736934.95	4709602.55	766.45
111	736935.32	4709591.34	765.73
112	736935.62	4709486.97	750.69
113	736935.77	4709527.70	756.81
114	736936.00	4709587.03	764.49

Punto	X	Y	Z
115	736936.02	4709561.06	759.52
116	736936.39	4709599.98	766.76
117	736936.70	4709587.45	765.34
118	736936.80	4709533.56	758.60
119	736936.89	4709558.85	759.99
120	736937.18	4709529.20	756.96
121	736937.23	4709587.87	765.55
122	736937.39	4709587.92	765.46
123	736937.57	4709601.26	767.76
124	736937.98	4709547.31	759.89
125	736938.24	4709595.63	765.80
126	736938.44	4709526.81	755.38
127	736938.45	4709525.37	754.97
128	736939.03	4709548.71	760.26
129	736939.05	4709527.11	756.10
130	736939.20	4709562.63	762.81
131	736939.52	4709529.00	756.92
132	736939.55	4709566.34	763.44
133	736939.56	4709493.38	752.53
134	736939.60	4709493.51	753.63
135	736939.94	4709547.76	760.17
136	736940.24	4709545.15	760.32
137	736940.56	4709547.13	760.21
138	736940.76	4709590.04	765.48
139	736940.86	4709545.80	760.23
140	736940.92	4709575.32	763.95
141	736941.02	4709590.18	765.47
142	736941.18	4709590.22	765.41
143	736941.25	4709590.26	766.38
144	736942.14	4709538.43	759.25
145	736942.24	4709592.39	767.43
146	736942.29	4709605.92	769.94
147	736942.39	4709575.69	764.74
148	736942.52	4709575.71	764.65
149	736942.84	4709597.97	769.41
150	736942.89	4709586.54	765.98
151	736943.16	4709510.28	754.50
152	736943.34	4709551.84	760.29

Punto	X	Y	Z
153	736943.71	4709551.38	760.18
154	736943.88	4709525.21	756.63
155	736943.91	4709551.19	760.18
156	736943.94	4709554.01	761.95
157	736944.46	4709607.87	770.17
158	736944.55	4709550.50	760.18
159	736944.79	4709476.75	750.39
160	736944.85	4709550.30	760.21
161	736944.92	4709542.48	760.44
162	736945.01	4709601.31	769.98
163	736945.22	4709601.59	770.01
164	736945.29	4709599.31	770.05
165	736945.32	4709541.40	760.40
166	736945.44	4709551.17	759.98
167	736945.51	4709523.16	755.12
168	736945.54	4709537.14	760.41
169	736945.57	4709593.42	769.43
170	736946.08	4709577.38	764.70
171	736946.18	4709577.46	764.78
172	736946.38	4709590.46	769.51
173	736946.44	4709577.54	764.59
174	736946.59	4709577.59	764.58
175	736946.67	4709577.72	765.42
176	736947.02	4709562.90	763.47
177	736947.30	4709581.38	767.58
178	736947.51	4709539.07	760.49
179	736947.55	4709563.05	763.82
180	736947.56	4709485.05	752.40
181	736947.64	4709563.08	763.69
182	736947.80	4709501.30	754.36
183	736947.85	4709539.21	760.50
184	736948.06	4709531.58	760.34
185	736948.22	4709603.79	770.22
186	736948.35	4709485.55	753.96
187	736948.59	4709534.22	760.41
188	736948.67	4709545.97	760.55
189	736949.28	4709610.45	773.17
190	736949.54	4709552.66	762.90
191	736949.69	4709518.92	755.09

Punto	X	Y	Z
191	736949.69	4709518.92	755.09
192	736949.87	4709583.39	769.39
193	736950.24	4709569.11	764.93
194	736950.50	4709529.67	760.59
195	736950.51	4709580.59	769.55
196	736950.93	4709553.63	763.02
197	736950.96	4709571.27	767.27
198	736951.09	4709553.62	762.92
199	736951.31	4709564.70	763.85
200	736951.37	4709564.75	763.89
201	736951.40	4709535.62	760.77
202	736951.42	4709520.02	756.25
203	736951.65	4709564.72	763.70
204	736951.81	4709564.71	763.69
205	736951.90	4709564.87	764.54
206	736952.30	4709546.90	762.71
207	736952.51	4709542.84	760.66
208	736952.80	4709567.00	767.35
209	736952.83	4709534.15	760.77
210	736952.93	4709543.04	760.39
211	736953.11	4709595.12	769.94
212	736953.91	4709533.12	760.83
213	736954.65	4709591.62	769.93
214	736954.73	4709490.69	754.36
215	736954.75	4709572.86	769.39
216	736954.83	4709554.81	762.85
217	736954.86	4709539.39	760.81
218	736955.13	4709554.94	762.76
219	736955.29	4709555.01	762.81
220	736955.46	4709571.35	769.37
221	736955.47	4709554.88	763.52
222	736955.60	4709600.32	773.27
223	736955.71	4709554.63	762.95
224	736955.82	4709523.95	761.15
225	736956.02	4709463.90	750.02
226	736956.19	4709566.95	769.21
227	736956.33	4709528.85	761.02
228	736956.44	4709557.79	767.93
229	736956.56	4709476.28	752.09

Punto	X	Y	Z
230	736956.60	4709537.63	760.85
231	736956.77	4709476.58	753.57
232	736957.05	4709568.37	769.75
233	736957.08	4709537.42	760.92
234	736957.12	4709538.09	760.81
235	736957.31	4709536.72	760.95
236	736957.38	4709618.63	774.83
237	736957.54	4709529.19	760.99
238	736957.56	4709529.08	761.05
239	736957.57	4709555.19	766.90
240	736957.71	4709537.92	761.33
241	736957.75	4709582.85	769.96
242	736957.98	4709558.88	768.90
243	736958.06	4709537.44	761.07
244	736958.42	4709566.52	770.07
245	736958.43	4709570.78	769.67
246	736958.47	4709609.55	773.65
247	736959.06	4709563.47	769.81
248	736959.11	4709509.22	755.16
249	736959.25	4709560.54	769.59
250	736959.30	4709510.02	756.06
251	736959.76	4709560.36	769.62
252	736960.49	4709574.50	770.00
253	736960.49	4709422.54	758.45
254	736960.68	4709589.01	773.31
255	736960.95	4709615.50	774.69
256	736961.02	4709532.79	761.17
257	736961.08	4709544.33	766.90
258	736961.39	4709532.40	761.10
259	736962.15	4709564.93	770.85
260	736962.34	4709524.27	761.03
261	736962.49	4709519.25	761.36
262	736963.05	4709418.95	758.40
263	736963.05	4709549.20	767.89
264	736963.08	4709418.96	758.38
265	736963.30	4709572.78	772.47
266	736963.72	4709582.13	773.27
267	736963.80	4709601.05	773.58

Punto	X	Y	Z
268	736963.94	4709471.03	752.19
269	736964.00	4709471.62	753.86
270	736964.24	4709534.37	761.19
271	736964.27	4709534.40	761.20
272	736964.34	4709575.67	772.72
273	736964.48	4709534.58	761.09
274	736964.94	4709456.83	749.88
275	736965.52	4709618.36	776.40
276	736965.57	4709527.64	761.27
277	736965.67	4709612.17	773.89
278	736966.10	4709540.22	769.22
279	736966.29	4709572.05	772.82
280	736966.90	4709582.73	773.48
281	736967.13	4709576.46	773.22
282	736967.19	4709593.99	773.74
283	736967.62	4709479.62	754.59
284	736967.66	4709496.45	755.16
285	736967.78	4709496.48	755.10
286	736967.87	4709528.15	761.26
287	736968.15	4709496.27	756.02
288	736968.20	4709610.01	773.98
289	736968.99	4709550.87	775.50
290	736969.02	4709524.10	761.39
291	736969.67	4709523.85	761.42
292	736969.82	4709524.15	761.39
293	736969.94	4709523.96	761.08
294	736970.12	4709614.99	775.17
295	736971.91	4709463.96	752.74
296	736972.01	4709433.17	759.61
297	736972.21	4709538.83	771.65
298	736972.44	4709551.84	779.92
299	736972.74	4709466.13	754.05
300	736973.46	4709488.67	756.73
301	736973.83	4709495.10	757.11
302	736973.83	4709588.07	777.73
303	736974.17	4709503.36	762.05
304	736974.56	4709430.46	759.79
305	736975.02	4709436.44	760.19



Punto	X	Y	Z
306	736975.21	4709527.35	773.83
307	736975.62	4709554.16	782.50
308	736975.93	4709438.35	760.35
309	736976.43	4709580.94	780.20
310	736976.71	4709433.76	759.82
311	736976.77	4709533.71	775.00
312	736976.89	4709605.93	780.15
313	736978.32	4709524.76	774.21
314	736978.91	4709446.72	749.88
315	736979.05	4709459.04	752.67
316	736979.34	4709570.10	782.94
317	736979.55	4709504.06	762.02
318	736979.77	4709504.22	761.95
319	736980.38	4709476.67	755.11
320	736980.40	4709530.14	776.21
321	736980.46	4709500.58	761.85
322	736980.48	4709504.72	761.96
323	736980.80	4709476.70	756.00
324	736980.82	4709460.45	755.14
325	736981.36	4709501.30	762.19
326	736981.51	4709480.76	758.59
327	736982.15	4709466.68	755.37
328	736982.31	4709454.20	751.03
329	736982.37	4709466.65	755.48
330	736982.69	4709522.74	774.49
331	736983.02	4709469.14	755.30
332	736983.36	4709469.33	756.11
333	736983.79	4709519.26	773.07
334	736984.03	4709459.26	755.37
335	736984.59	4709483.80	758.82
336	736985.13	4709594.82	782.67
337	736985.20	4709542.82	788.86
338	736985.65	4709447.94	760.83
339	736985.72	4709563.08	788.41
340	736985.72	4709556.74	790.00
341	736985.72	4709448.02	760.83
342	736986.50	4709447.96	761.00
343	736986.55	4709447.89	760.90
344	736986.91	4709496.43	762.33

Punto	X	Y	Z
345	736987.08	4709496.49	762.22
346	736987.51	4709577.15	787.36
347	736987.58	4709497.07	762.25
348	736987.89	4709444.84	760.77
349	736987.93	4709504.52	762.21
350	736987.96	4709444.75	760.86
351	736988.12	4709546.70	790.17
352	736988.13	4709504.75	762.22
353	736988.14	4709513.28	773.54
354	736988.42	4709444.50	760.84
355	736988.49	4709505.64	761.86
356	736988.62	4709444.71	760.82
357	736988.63	4709444.70	760.84
358	736990.04	4709485.67	761.61
359	736990.33	4709469.64	757.74
360	736990.62	4709469.63	760.28
361	736991.91	4709448.86	761.18
362	736992.00	4709448.84	761.25
363	736992.00	4709587.47	787.66
364	736992.39	4709448.45	761.19
365	736992.51	4709467.24	758.02
366	736992.61	4709467.29	760.27
367	736993.06	4709455.38	761.61
368	736993.26	4709488.89	762.41
369	736993.29	4709506.80	771.73
370	736993.47	4709454.98	761.60
371	736993.48	4709454.95	761.56
372	736994.11	4709556.93	794.18
373	736994.28	4709562.23	793.63
374	736994.43	4709488.68	762.62
375	736994.46	4709489.01	762.45
376	736995.16	4709489.07	762.55
377	736996.14	4709533.66	790.49
378	736996.27	4709463.15	759.67
379	736996.34	4709463.24	760.27
380	736996.52	4709579.00	792.40
381	736997.11	4709513.93	779.11
382	736997.35	4709459.52	762.01
383	736997.36	4709446.62	752.55

Punto	X	Y	Z
384	736997.64	4709453.26	759.89
385	736997.68	4709541.65	791.88
386	736997.69	4709459.24	761.97
387	736997.69	4709463.67	760.12
388	736997.70	4709459.23	761.97
389	736997.72	4709459.30	761.96
390	736997.81	4709494.31	762.64
391	736997.93	4709516.83	780.94
392	736998.18	4709494.50	762.64
393	736998.53	4709460.44	762.05
394	736998.53	4709495.16	762.33
395	736999.06	4709456.09	761.80
396	736999.07	4709462.18	760.16
397	736999.08	4709455.97	761.91
398	736999.19	4709483.66	762.94
399	736999.37	4709483.79	762.76
400	736999.57	4709455.74	761.85
401	736999.74	4709484.18	762.84
402	736999.90	4709503.02	773.23
403	737000.32	4709519.73	783.88
404	737000.47	4709464.83	760.27
405	737001.21	4709545.93	795.43
406	737001.42	4709456.36	759.92
407	737001.58	4709467.29	760.35
408	737002.02	4709537.53	791.74
409	737002.09	4709449.88	759.84
410	737002.31	4709464.62	762.40
411	737002.66	4709464.39	762.39
412	737003.01	4709430.80	749.81
413	737003.05	4709465.89	760.37
414	737003.11	4709443.80	755.89
415	737003.63	4709465.52	762.46
416	737003.97	4709457.08	759.96
417	737004.28	4709571.41	799.38
418	737004.38	4709503.23	776.23
419	737004.52	4709469.41	762.40
420	737004.82	4709469.87	762.46
421	737004.83	4709477.02	762.98

Punto	X	Y	Z
422	737004.85	4709477.06	762.81
423	737005.04	4709462.08	762.38
424	737005.04	4709462.03	762.44
425	737005.08	4709440.12	752.74
426	737005.25	4709456.46	759.97
427	737005.40	4709468.01	762.19
428	737005.41	4709461.71	762.31
429	737005.51	4709456.76	759.98
430	737005.60	4709459.60	761.71
431	737005.75	4709473.28	762.85
432	737005.85	4709468.01	762.69
433	737005.87	4709473.28	762.80
434	737005.93	4709467.83	762.65
435	737006.01	4709477.27	762.90
436	737006.13	4709470.71	762.84
437	737006.31	4709470.78	762.76
438	737006.36	4709457.93	760.76
439	737006.60	4709455.93	759.97
440	737006.72	4709460.45	761.70
441	737006.74	4709524.55	790.99
442	737007.72	4709492.36	768.38
443	737007.80	4709498.52	776.04
444	737007.96	4709457.72	760.76
445	737008.04	4709528.59	791.83
446	737008.08	4709457.80	761.74
447	737008.68	4709434.78	752.69
448	737008.87	4709438.88	755.70
449	737008.89	4709522.97	791.10
450	737009.30	4709482.39	763.06
451	737009.39	4709464.70	762.68
452	737009.46	4709465.34	762.82
453	737009.47	4709482.68	763.02
454	737009.57	4709466.18	762.79
455	737009.57	4709540.87	796.08
456	737009.59	4709466.11	762.92
457	737009.70	4709465.08	763.00
458	737009.94	4709483.15	762.78
459	737010.19	4709501.97	778.31

Punto	X	Y	Z
460	737010.36	4709560.01	804.75
461	737010.55	4709521.50	791.01
462	737011.03	4709464.00	763.62
463	737011.60	4709535.96	794.08
464	737012.10	4709440.03	755.74
465	737012.24	4709466.50	762.97
466	737012.25	4709466.42	763.05
467	737012.74	4709441.72	755.91
468	737013.21	4709552.80	805.06
469	737013.36	4709462.78	763.65
470	737014.21	4709439.18	755.75
471	737014.52	4709498.45	778.00
472	737014.68	4709460.16	761.74
473	737014.78	4709496.80	777.19
474	737014.86	4709465.61	763.14
475	737014.88	4709465.53	763.24
476	737015.13	4709444.91	756.42
477	737015.90	4709499.82	779.71
478	737016.33	4709460.04	763.68
479	737016.53	4709466.00	763.24
480	737017.50	4709507.25	785.17
481	737017.63	4709442.26	756.08
482	737017.82	4709463.83	763.38
483	737017.94	4709514.86	791.33
484	737017.98	4709464.04	763.33
485	737018.03	4709497.06	779.90
486	737018.08	4709480.59	769.59
487	737018.59	4709449.95	761.72
488	737018.71	4709491.86	775.08
489	737018.88	4709501.75	782.61
490	737019.03	4709472.16	763.37
491	737019.08	4709528.03	794.10
492	737019.48	4709472.60	763.31
493	737019.77	4709473.21	763.26
494	737019.89	4709499.45	780.83
495	737019.98	4709461.99	763.50
496	737020.04	4709462.05	763.37
497	737020.46	4709462.34	763.44
498	737020.92	4709541.73	802.21

Punto	X	Y	Z
499	737020.98	4709456.28	762.63
500	737022.06	4709482.32	772.36
501	737022.09	4709455.42	762.46
502	737022.38	4709455.87	763.83
503	737023.47	4709493.92	780.70
504	737023.97	4709499.20	783.18
505	737024.03	4709497.37	781.00
506	737024.08	4709514.93	792.16
507	737024.27	4709450.11	761.24
508	737024.31	4709528.49	795.83
509	737024.36	4709490.20	777.14
510	737025.15	4709452.38	763.91
511	737025.18	4709453.05	763.85
512	737025.31	4709452.37	763.86
513	737025.85	4709455.96	763.80
514	737026.20	4709456.26	763.78
515	737026.84	4709454.88	763.88
516	737026.85	4709454.89	763.86
517	737026.86	4709454.90	763.86
518	737027.10	4709530.42	798.11
519	737027.43	4709467.36	767.94
520	737028.16	4709513.54	793.91
521	737028.29	4709449.28	763.91
522	737028.39	4709462.57	763.66
523	737028.51	4709491.54	782.32
524	737028.51	4709495.70	783.47
525	737028.65	4709465.01	768.76
526	737028.70	4709463.16	763.58
527	737028.86	4709463.43	763.55
528	737029.73	4709497.04	785.69
529	737029.80	4709448.81	764.09
530	737030.31	4709465.88	769.33
531	737030.35	4709488.38	780.17
532	737030.43	4709509.61	791.25
533	737031.11	4709506.54	790.62
534	737032.07	4709533.31	802.36
535	737032.51	4709448.79	764.19
536	737032.70	4709449.79	764.06
537	737033.81	4709462.51	768.72

Punto	X	Y	Z
538	737036.23	4709481.67	778.85
539	737036.64	4709454.01	764.22
540	737036.82	4709521.36	798.53
541	737037.10	4709454.41	764.10
542	737037.36	4709499.01	790.36
543	737038.22	4709473.09	775.58
544	737038.38	4709507.24	793.85
545	737038.67	4709504.63	791.40
546	737039.05	4709459.90	769.24
547	737040.40	4709486.49	785.59
548	737040.86	4709492.63	790.31
549	737041.03	4709515.64	799.28
550	737042.56	4709523.95	801.71
551	737042.62	4709496.82	791.73
552	737042.82	4709508.01	796.46
553	737045.79	4709495.53	792.73
554	737045.87	4709481.28	783.45
555	737046.11	4709488.33	790.02
556	737046.75	4709497.43	793.29
557	737046.78	4709522.10	802.68
558	737046.97	4709461.94	774.31
559	737047.83	4709495.53	793.35
560	737048.36	4709502.77	798.30
561	737048.98	4709513.55	801.38
562	737049.94	4709490.91	791.39
563	737050.44	4709487.78	790.74
564	737050.51	4709492.36	791.72
565	737051.33	4709518.37	803.92
566	737051.87	4709468.39	776.64
567	737054.51	4709499.23	799.57
568	737055.87	4709482.22	789.36
569	737058.11	4709488.97	792.86
570	737058.99	4709490.65	795.87
571	737059.89	4709493.17	796.28
572	737060.61	4709472.30	786.85
573	737062.56	4709472.60	786.23
574	737066.27	4709490.10	797.34
575	737067.36	4709487.28	795.37



**5.5.2. Sistema de referencia ETRS 89 UTM HUSO 30**

P.K. 0+120 Boquilla de entrada al Túnel de Jánovas

Punto	X	Y	Z
5000	748021,495	4706159,018	704,273
5001	748021,685	4706168,479	708,103
5002	748022,355	4706153,018	700,383
5003	748023,114	4706136,578	690,982
5004	748025,584	4706124,527	684,602
5005	748025,643	4706087,596	645,952
5006	748026,064	4706117,177	679,032
5007	748026,115	4706148,598	697,423
5008	748026,704	4706109,557	673,612
5009	748027,704	4706104,397	669,522
5010	748028,123	4706089,846	645,662
5011	748028,163	4706090,787	658,442
5012	748028,184	4706102,957	665,432
5013	748029,003	4706089,266	645,742
5014	748029,134	4706094,457	661,502
5015	748029,553	4706084,506	645,682
5016	748032,373	4706090,426	645,542
5017	748033,914	4706093,716	659,772
5018	748034,103	4706085,786	645,372
5019	748034,954	4706098,797	660,442
5020	748035,504	4706100,817	661,092
5021	748036,463	4706085,986	645,122
5022	748036,574	4706115,297	675,302
5023	748037,084	4706114,567	673,202
5024	748037,245	4706170,178	706,053
5025	748037,975	4706155,368	699,873
5026	748038,444	4706093,286	645,242
5027	748039,164	4706104,707	666,002
5028	748039,694	4706096,916	650,522
5029	748040,555	4706144,388	694,812
5030	748042,054	4706100,166	652,102
5031	748042,515	4706130,777	687,302
5032	748042,634	4706095,816	644,982
5033	748042,894	4706094,976	644,982
5034	748043,494	4706121,107	678,362
5035	748043,834	4706120,157	675,812
5036	748044,134	4706089,166	645,022
5037	748044,374	4706090,666	645,052

Punto	X	Y	Z
5038	748044,544	4706090,166	645,042
5039	748044,584	4706109,037	668,152
5040	748046,404	4706099,486	647,652
5041	748047,164	4706108,387	668,502
5042	748047,814	4706101,636	648,502
5043	748050,064	4706113,237	671,212
5044	748050,935	4706157,388	696,552
5045	748051,504	4706104,446	648,842
5046	748051,955	4706128,967	683,322
5047	748052,194	4706101,916	647,272
5048	748052,465	4706127,307	680,352
5049	748052,654	4706099,146	644,611
5050	748053,325	4706119,717	674,432
5051	748054,706	4706168,328	698,592
5052	748055,284	4706101,176	644,521
5053	748055,724	4706100,676	644,511
5054	748056,455	4706136,147	686,282
5055	748056,704	4706108,336	650,722
5056	748057,505	4706135,037	682,452
5057	748057,874	4706096,626	644,521
5058	748058,254	4706101,686	644,461
5059	748058,474	4706094,976	644,331
5060	748058,604	4706096,176	644,451
5061	748058,634	4706106,326	649,032
5062	748059,014	4706087,646	639,031
5063	748059,355	4706121,247	674,842
5064	748060,175	4706127,677	676,472
5065	748060,274	4706092,766	642,251
5066	748060,785	4706128,967	676,372
5067	748061,365	4706113,536	651,002
5068	748061,845	4706127,857	676,322
5069	748062,445	4706146,507	686,792
5070	748062,975	4706145,297	685,572
5071	748063,275	4706139,627	681,842
5072	748063,325	4706112,196	649,102
5073	748063,385	4706110,796	648,652
5074	748063,725	4706118,206	650,852
5075	748063,876	4706170,298	695,122
5076	748064,255	4706116,446	653,082
5077	748065,325	4706136,717	678,422
5078	748065,475	4706114,086	648,392
5079	748065,865	4706123,486	657,862

Punto	X	Y	Z
5080	748065,955	4706129,147	660,312
5081	748066,005	4706115,336	649,272
5082	748066,136	4706159,167	690,272
5083	748066,145	4706117,206	652,772
5084	748066,275	4706119,946	651,082
5085	748067,105	4706142,767	680,662
5086	748067,655	4706115,826	648,982
5087	748068,635	4706135,927	667,902
5088	748068,655	4706121,006	650,212
5089	748068,966	4706147,837	685,052
5090	748069,035	4706113,146	649,422
5091	748069,345	4706114,536	651,032
5092	748069,534	4706095,586	640,571
5093	748069,625	4706134,427	660,672
5094	748069,785	4706117,436	650,692
5095	748070,615	4706126,656	648,321
5096	748070,735	4706115,396	649,882
5097	748070,736	4706143,447	679,492
5098	748070,834	4706089,945	637,011
5099	748071,626	4706147,757	681,022
5100	748071,665	4706118,386	651,772
5101	748072,816	4706144,327	679,442
5102	748072,835	4706122,786	648,621
5103	748072,876	4706154,597	684,852
5104	748072,926	4706143,307	676,532
5105	748073,005	4706108,156	644,161
5106	748073,125	4706103,906	644,171
5107	748073,416	4706170,258	690,982
5108	748073,675	4706116,526	650,172
5109	748074,245	4706130,926	647,711
5110	748074,326	4706153,777	682,762
5111	748074,575	4706109,646	644,001
5112	748074,675	4706108,986	644,121
5113	748074,775	4706113,846	649,202
5114	748075,355	4706126,966	648,191
5115	748076,336	4706149,577	682,142
5116	748076,546	4706143,597	679,802
5117	748076,855	4706120,166	647,311
5118	748076,985	4706103,286	643,941
5119	748077,015	4706105,036	644,081
5120	748077,225	4706103,936	644,071

Punto	X	Y	Z
5121	748077,275	4706133,486	648,271
5122	748077,335	4706115,076	646,111
5123	748077,396	4706158,797	684,032
5124	748077,515	4706104,386	644,081
5125	748077,665	4706123,086	645,751
5126	748077,856	4706167,607	687,972
5127	748078,075	4706099,076	641,511
5128	748078,155	4706121,186	644,791
5129	748078,305	4706101,576	642,041
5130	748078,526	4706140,447	653,922
5131	748078,665	4706122,986	645,351
5132	748078,776	4706149,087	684,442
5133	748078,855	4706130,906	648,271
5134	748079,096	4706160,857	684,392
5135	748079,445	4706089,875	636,091
5136	748079,706	4706152,937	682,702
5137	748079,735	4706111,856	643,991
5138	748080,225	4706118,476	644,091
5139	748080,385	4706114,646	644,601
5140	748080,676	4706158,917	684,192
5141	748081,146	4706157,977	685,572
5142	748081,376	4706150,607	684,442
5143	748081,885	4706113,556	643,761
5144	748082,025	4706116,606	643,341
5145	748082,096	4706154,507	685,922
5146	748082,235	4706123,416	645,171
5147	748082,875	4706105,676	641,781
5148	748082,956	4706149,217	683,682
5149	748082,975	4706108,166	643,961
5150	748083,376	4706156,907	684,852
5151	748083,525	4706113,396	644,041
5152	748083,616	4706128,736	649,541
5153	748083,796	4706142,827	656,852
5154	748084,196	4706167,727	686,432
5155	748084,246	4706151,317	685,822
5156	748084,345	4706119,946	645,221
5157	748084,406	4706150,487	683,982
5158	748084,596	4706153,667	686,592
5159	748084,865	4706126,266	647,521
5160	748084,875	4706114,256	642,571
5161	748084,996	4706144,357	671,872

5162	748085,375	4706116,736	644,301
5163	748085,555	4706105,636	640,201
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
5164	748085,626	4706155,707	687,412
5165	748085,656	4706130,806	650,901
5166	748085,836	4706154,187	686,182
5167	748085,936	4706159,237	685,262
5168	748086,116	4706158,527	687,872
5169	748086,315	4706090,115	635,501
5170	748086,777	4706172,267	687,662
5171	748086,955	4706114,876	644,041
5172	748087,205	4706107,946	639,191
5173	748087,215	4706115,026	643,971
5174	748087,355	4706102,105	639,311
5175	748087,445	4706114,296	644,041
5176	748087,455	4706114,466	644,051
5177	748087,816	4706155,597	688,322
5178	748088,256	4706157,767	688,532
5179	748088,916	4706140,946	657,472
5180	748089,465	4706103,865	637,451
5181	748089,656	4706124,926	648,701
5182	748089,745	4706097,125	637,671
5183	748089,896	4706142,966	658,752
5184	748089,926	4706142,936	658,752
5185	748089,995	4706106,195	639,771
5186	748090,195	4706110,706	643,941
5187	748092,705	4706112,136	643,891
5188	748092,716	4706149,817	685,152
5189	748092,855	4706089,125	634,001
5190	748092,935	4706102,325	637,571
5191	748092,977	4706165,017	688,732
5192	748093,165	4706097,805	636,221
5193	748093,346	4706134,016	654,862
5194	748093,406	4706119,116	645,081
5195	748094,185	4706093,755	634,921
5196	748094,325	4706105,075	639,611
5197	748094,637	4706174,527	691,752
5198	748094,756	4706118,036	644,011
5199	748094,826	4706117,216	644,091
5200	748094,935	4706095,615	636,091
5201	748095,285	4706095,965	637,931
5202	748095,365	4706101,095	637,591
5203	748095,555	4706098,535	636,831

5204	748095,695	4706111,105	643,621
5205	748095,835	4706098,065	638,061
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
5206	748095,926	4706138,456	657,742
5207	748096,095	4706111,865	643,741
5208	748096,676	4706156,677	687,712
5209	748096,716	4706126,496	651,232
5210	748097,266	4706146,526	670,222
5211	748097,285	4706095,335	637,931
5212	748097,656	4706129,546	653,122
5213	748097,765	4706094,875	635,981
5214	748097,846	4706145,426	662,112
5215	748098,105	4706097,475	638,161
5216	748098,696	4706154,787	687,192
5217	748099,516	4706151,896	680,292
5218	748099,547	4706167,507	690,472
5219	748099,965	4706095,255	635,551
5220	748100,707	4706162,627	689,592
5221	748101,536	4706114,945	643,891
5222	748101,946	4706132,456	652,192
5223	748102,145	4706106,655	642,791
5224	748102,176	4706134,926	656,482
5225	748102,945	4706092,815	634,451
5226	748103,216	4706119,886	644,041
5227	748104,256	4706113,615	643,951
5228	748104,456	4706107,945	643,681
5229	748105,017	4706172,257	693,032
5230	748105,446	4706136,796	657,062
5231	748106,177	4706153,226	669,712
5232	748106,537	4706159,887	681,472
5233	748106,956	4706115,795	643,851
5234	748107,016	4706121,715	643,731
5235	748107,106	4706129,086	648,771
5236	748107,127	4706163,527	687,242
5237	748107,186	4706120,995	644,031
5238	748108,946	4706109,285	643,641
5239	748109,136	4706135,566	654,502
5240	748109,757	4706157,926	674,212
5241	748109,956	4706110,725	643,621
5242	748110,096	4706136,446	657,112
5243	748110,236	4706109,555	644,441
5244	748110,967	4706151,496	666,402
5245	748111,156	4706104,595	640,721

5246	748111,217	4706172,797	693,222
5247	748111,406	4706134,856	657,012
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
5248	748111,657	4706163,786	680,242
5249	748111,666	4706121,715	643,941
5250	748111,676	4706117,495	643,741
5251	748111,726	4706109,095	644,361
5252	748111,826	4706110,375	644,081
5253	748112,326	4706108,745	643,471
5254	748112,526	4706110,935	643,591
5255	748112,997	4706169,897	686,122
5256	748113,036	4706132,716	652,752
5257	748113,427	4706172,987	693,122
5258	748113,656	4706130,096	650,161
5259	748113,906	4706111,955	644,311
5260	748113,986	4706111,195	643,641
5261	748115,037	4706168,447	691,742
5262	748115,046	4706110,655	644,281
5263	748115,067	4706160,196	688,672
5264	748115,246	4706112,345	644,311
5265	748115,346	4706105,745	640,641
5266	748115,546	4706110,965	644,211
5267	748115,976	4706130,566	653,372
5268	748116,096	4706098,225	634,811
5269	748116,506	4706110,845	643,651
5270	748117,276	4706112,265	643,611
5271	748117,306	4706112,655	643,501
5272	748118,297	4706160,736	680,392
5273	748118,427	4706144,656	660,912
5274	748118,847	4706167,946	694,142
5275	748118,896	4706112,485	643,531
5276	748118,896	4706112,105	643,651
5277	748118,967	4706158,286	667,432
5278	748119,587	4706164,186	690,772
5279	748119,946	4706123,785	643,581
5280	748120,326	4706123,215	643,781
5281	748120,476	4706111,945	643,551
5282	748120,496	4706112,435	643,521
5283	748120,586	4706119,095	643,651
5284	748120,845	4706088,904	632,421
5285	748121,176	4706104,905	639,261
5286	748121,796	4706118,715	643,631

5287	748122,066	4706111,725	643,441
5288	748122,076	4706112,195	643,471
5289	748122,496	4706132,775	653,372
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
5290	748123,007	4706175,657	696,642
5291	748123,166	4706110,705	643,241
5292	748123,516	4706099,915	634,561
5293	748123,776	4706111,515	643,371
5294	748123,806	4706111,885	643,341
5295	748123,806	4706111,525	643,361
5296	748123,816	4706094,384	633,511
5297	748123,987	4706162,016	668,302
5298	748125,297	4706132,025	652,551
5299	748125,396	4706111,315	643,311
5300	748125,416	4706111,695	643,241
5301	748125,437	4706170,046	691,882
5302	748126,566	4706124,135	643,651
5303	748126,686	4706111,595	643,201
5304	748126,686	4706111,215	643,331
5305	748127,387	4706156,316	664,512
5306	748127,647	4706131,235	651,731
5307	748128,286	4706111,575	643,151
5308	748128,316	4706111,205	643,251
5309	748129,287	4706167,876	670,952
5310	748129,437	4706145,416	658,202
5311	748130,056	4706111,605	643,101
5312	748130,076	4706111,215	643,241
5313	748130,238	4706176,486	695,002
5314	748130,846	4706092,154	632,401
5315	748131,716	4706110,175	643,011
5316	748131,736	4706111,165	643,231
5317	748131,756	4706111,565	643,041
5318	748131,866	4706095,784	633,131
5319	748131,876	4706120,625	643,511
5320	748132,507	4706127,435	644,331
5321	748132,526	4706100,174	634,071
5322	748132,996	4706111,565	643,041
5323	748133,016	4706111,175	643,231
5324	748133,827	4706134,105	651,751
5325	748134,656	4706111,625	643,021
5326	748134,656	4706111,205	643,171
5327	748135,618	4706168,866	670,552



5328	748136,316	4706111,745	643,041
5329	748136,336	4706111,315	643,141
5330	748136,386	4706105,064	639,021
5331	748137,268	4706170,976	671,532
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
5332	748137,916	4706111,895	643,021
5333	748137,926	4706111,465	643,131
5334	748138,227	4706125,745	643,511
5335	748138,908	4706174,046	672,982
5336	748139,656	4706112,075	642,971
5337	748139,716	4706111,685	643,091
5338	748140,927	4706134,045	651,061
5339	748141,166	4706106,954	639,841
5340	748141,246	4706112,274	642,941
5341	748141,326	4706111,874	643,061
5342	748142,197	4706126,985	643,231
5343	748142,337	4706126,295	643,411
5344	748142,666	4706110,834	642,951
5345	748143,367	4706120,975	643,331
5346	748143,906	4706095,534	632,371
5347	748143,917	4706153,185	660,502
5348	748144,007	4706121,775	643,361
5349	748144,878	4706173,056	672,092
5350	748146,777	4706129,065	644,431
5351	748147,197	4706126,635	643,381
5352	748147,487	4706136,885	652,001
5353	748147,487	4706136,875	652,001
5354	748148,057	4706142,085	654,311
5355	748148,076	4706102,004	633,741
5356	748148,466	4706097,574	632,611
5357	748149,497	4706115,414	643,061
5358	748152,088	4706164,056	665,322
5359	748155,316	4706096,994	632,221
5360	748156,407	4706122,684	643,281
5361	748156,507	4706127,805	643,321
5362	748156,537	4706128,725	643,091
5363	748156,767	4706127,545	643,291
5364	748157,288	4706174,586	670,042
5365	748157,527	4706122,134	643,251
5366	748158,267	4706117,694	642,951
5367	748160,397	4706130,714	643,871
5368	748163,948	4706151,415	657,282
5369	748164,168	4706140,165	651,641

5370	748165,157	4706123,264	643,151
5371	748165,387	4706101,594	632,841
5372	748165,717	4706107,584	634,381
5373	748166,147	4706121,354	643,091
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
5374	748168,798	4706168,225	664,812
5375	748170,007	4706099,894	631,991
5376	748171,018	4706146,065	654,341
5377	748171,039	4706175,575	668,362
5378	748171,318	4706128,824	643,171
5379	748171,887	4706115,694	640,901
5380	748174,177	4706109,734	634,481
5381	748174,548	4706132,574	643,481
5382	748174,738	4706131,134	642,761
5383	748175,188	4706129,514	643,161
5384	748175,387	4706118,494	642,801
5385	748175,437	4706118,474	642,791
5386	748175,447	4706103,453	632,591
5387	748176,207	4706121,984	642,981
5388	748176,458	4706123,774	643,081
5389	748176,568	4706122,694	643,071
5390	748177,458	4706149,785	655,161
5391	748178,268	4706132,814	643,001
5392	748178,288	4706131,654	642,821
5393	748178,808	4706137,594	646,391
5394	748180,498	4706129,464	643,091
5395	748181,639	4706162,775	660,112
5396	748183,077	4706103,583	631,861
5397	748183,379	4706175,345	666,032
5398	748184,258	4706150,994	655,261
5399	748187,548	4706124,244	642,971
5400	748188,287	4706106,333	632,541
5401	748188,329	4706157,555	657,431
5402	748188,498	4706148,444	653,521
5403	748189,068	4706111,393	633,991
5404	748189,188	4706130,014	643,031
5405	748189,209	4706154,744	655,871
5406	748190,389	4706163,105	659,191
5407	748190,689	4706175,875	664,732
5408	748191,618	4706132,434	642,731
5409	748191,658	4706130,954	643,031
5410	748191,667	4706102,413	631,731
5411	748191,858	4706133,914	643,101

5412	748191,979	4706158,785	657,461
5413	748192,429	4706157,454	656,711
5414	748192,428	4706122,934	642,921
5415	748193,238	4706120,564	642,661
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
5416	748193,818	4706139,854	647,051
5417	748193,958	4706122,704	642,771
5418	748196,339	4706149,724	654,231
5419	748199,198	4706130,694	642,971
5420	748200,548	4706104,733	631,601

P.K. 1+800 Boquilla de salida al Túnel de Jánovas

Punto	X	Y	Z
4000	746495,170	4706670,510	666,950
4001	746499,220	4706681,680	667,520
4002	746502,140	4706690,930	668,170
4003	746505,640	4706661,690	666,850
4004	746508,440	4706705,710	669,440
4005	746512,930	4706728,710	671,910
4006	746513,530	4706733,980	674,330
4007	746513,940	4706719,670	671,380
4008	746514,620	4706674,430	667,880
4009	746515,840	4706690,630	668,700
4010	746520,030	4706709,400	670,330
4011	746520,660	4706742,600	675,290
4012	746521,200	4706742,970	676,600
4013	746522,920	4706754,690	677,800
4014	746523,250	4706686,700	668,690
4015	746524,790	4706726,780	674,230
4016	746526,020	4706721,190	671,820
4017	746526,630	4706653,570	667,260
4018	746527,280	4706752,840	678,530
4019	746527,740	4706668,010	668,190
4020	746528,060	4706767,930	681,740
4021	746528,130	4706761,540	679,430
4022	746529,850	4706769,000	681,850
4023	746531,640	4706771,000	682,610
4024	746531,730	4706735,830	676,530
4025	746532,980	4706745,950	677,330
4026	746533,090	4706733,010	674,930
4027	746533,140	4706772,590	682,770
4028	746533,480	4706772,710	682,640

4029	746533,560	4706716,330	671,560
4030	746533,820	4706746,670	678,060
4031	746534,350	4706769,840	682,500
4032	746534,440	4706682,440	669,040
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4033	746534,560	4706699,550	670,190
4034	746535,300	4706779,040	682,390
4035	746535,790	4706719,560	674,080
4036	746536,240	4706662,410	667,970
4037	746536,400	4706758,540	680,760
4038	746536,460	4706776,050	682,680
4039	746536,730	4706776,310	682,620
4040	746538,010	4706751,940	678,600
4041	746538,510	4706781,100	684,870
4042	746538,940	4706760,270	680,730
4043	746538,970	4706763,690	682,180
4044	746538,990	4706741,890	677,840
4045	746539,000	4706740,560	677,170
4046	746539,260	4706781,180	685,860
4047	746539,910	4706647,730	667,240
4048	746539,920	4706711,540	671,480
4049	746540,020	4706730,200	676,690
4050	746540,330	4706765,790	682,260
4051	746540,560	4706766,050	682,320
4052	746540,940	4706648,370	667,360
4053	746540,950	4706753,060	680,240
4054	746541,330	4706792,340	687,410
4055	746542,130	4706794,130	688,300
4056	746543,070	4706736,660	677,270
4057	746543,420	4706756,130	680,340
4058	746543,440	4706737,830	677,650
4059	746543,570	4706769,330	682,270
4060	746543,660	4706798,530	689,170
4061	746543,760	4706769,700	682,260
4062	746544,030	4706736,440	677,330
4063	746544,120	4706646,280	669,090
4064	746544,390	4706736,940	677,560
4065	746544,420	4706770,260	681,870
4066	746544,570	4706746,240	678,200
4067	746544,600	4706803,910	689,440
4068	746544,640	4706707,470	671,790
4069	746545,270	4706771,830	684,680

4070	746545,950	4706657,400	670,190
4071	746545,950	4706804,640	690,990
4072	746546,000	4706724,240	674,730
4073	746546,020	4706674,690	669,310
4074	746546,040	4706646,110	669,190
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4075	746546,050	4706712,140	673,550
4076	746546,510	4706771,070	685,900
4077	746546,640	4706656,570	669,890
4078	746546,740	4706725,930	676,460
4079	746546,880	4706782,340	686,980
4080	746547,080	4706747,330	679,760
4081	746547,190	4706659,010	670,110
4082	746547,440	4706784,710	687,940
4083	746547,660	4706645,490	668,440
4084	746548,350	4706755,580	681,700
4085	746549,190	4706692,560	670,690
4086	746549,320	4706769,060	685,420
4087	746549,320	4706677,070	671,600
4088	746549,400	4706810,070	692,420
4089	746549,630	4706707,270	672,120
4090	746549,820	4706699,060	671,530
4091	746549,920	4706757,890	681,850
4092	746549,990	4706758,110	681,890
4093	746550,000	4706707,330	672,390
4094	746550,090	4706656,250	669,070
4095	746550,180	4706707,420	672,310
4096	746550,720	4706741,040	678,290
4097	746550,930	4706656,180	669,500
4098	746551,240	4706750,080	679,780
4099	746551,480	4706719,500	674,130
4100	746551,570	4706741,680	678,990
4101	746551,630	4706721,170	676,460
4102	746551,860	4706739,750	678,110
4103	746551,930	4706762,630	681,850
4104	746552,070	4706766,500	684,200
4105	746552,110	4706762,060	681,880
4106	746552,180	4706728,710	676,790
4107	746552,180	4706739,030	678,170
4108	746552,400	4706763,320	681,490
4109	746552,410	4706740,080	678,670
4110	746552,550	4706694,900	672,920
4111	746552,610	4706702,840	672,100

4112	746552,720	4706793,760	689,760
4113	746552,890	4706732,250	677,460
4114	746553,400	4706774,100	686,190
4115	746553,410	4706688,490	672,260
4116	746553,430	4706728,650	675,400
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4117	746553,640	4706717,520	675,850
4118	746553,880	4706732,040	675,930
4119	746553,880	4706648,340	668,930
4120	746553,900	4706734,930	677,870
4121	746553,960	4706775,710	687,200
4122	746554,280	4706723,450	676,380
4123	746554,520	4706765,280	685,130
4124	746554,740	4706707,120	674,530
4125	746554,740	4706793,080	691,300
4126	746554,850	4706783,650	688,530
4127	746554,980	4706723,800	674,810
4128	746555,110	4706711,900	673,370
4129	746555,140	4706799,190	691,940
4130	746555,340	4706711,410	675,530
4131	746555,530	4706696,940	672,810
4132	746555,750	4706686,700	671,820
4133	746555,760	4706747,240	680,070
4134	746555,940	4706741,390	678,820
4135	746556,300	4706763,740	683,750
4136	746556,550	4706686,930	672,110
4137	746556,600	4706720,650	676,250
4138	746556,670	4706746,290	679,600
4139	746556,670	4706708,930	674,870
4140	746556,710	4706696,420	672,740
4141	746556,990	4706741,210	676,730
4142	746557,010	4706693,560	672,540
4143	746557,230	4706696,930	672,870
4144	746557,340	4706721,340	674,850
4145	746557,350	4706788,540	690,260
4146	746557,580	4706750,650	681,450
4147	746557,590	4706772,140	686,240
4148	746557,870	4706764,020	684,710
4149	746557,890	4706750,440	681,540
4150	746557,910	4706696,640	672,870
4151	746557,940	4706708,850	673,310
4152	746557,970	4706772,980	686,340
4153	746558,080	4706729,590	677,660

4154	746558,130	4706751,620	681,420
4155	746558,150	4706790,660	691,330
4156	746558,180	4706750,810	681,500
4157	746558,290	4706751,920	681,480
4158	746558,750	4706714,280	675,550
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4159	746559,030	4706772,630	686,310
4160	746559,240	4706749,350	681,390
4161	746559,370	4706748,370	680,900
4162	746559,380	4706715,300	674,290
4163	746559,490	4706749,750	681,390
4164	746559,580	4706748,760	681,170
4165	746559,670	4706708,340	673,290
4166	746559,860	4706748,890	681,180
4167	746559,890	4706724,050	675,260
4168	746559,940	4706748,890	681,370
4169	746560,220	4706749,250	681,370
4170	746560,320	4706725,640	676,930
4171	746560,350	4706668,730	669,720
4172	746560,400	4706643,930	668,820
4173	746560,410	4706736,200	676,810
4174	746560,490	4706694,610	671,820
4175	746560,590	4706724,760	676,740
4176	746560,630	4706762,990	683,750
4177	746560,640	4706704,600	674,070
4178	746560,640	4706703,690	673,420
4179	746560,680	4706778,640	688,680
4180	746560,800	4706755,110	681,400
4181	746560,820	4706763,500	684,780
4182	746560,880	4706783,050	689,540
4183	746560,990	4706755,530	681,370
4184	746561,000	4706780,960	689,110
4185	746561,050	4706756,720	680,930
4186	746561,240	4706747,870	681,340
4187	746561,320	4706747,470	677,070
4188	746561,350	4706781,910	689,780
4189	746561,390	4706747,540	678,310
4190	746561,430	4706736,080	678,380
4191	746561,480	4706763,890	684,720
4192	746561,480	4706679,310	670,660
4193	746561,580	4706748,210	681,300
4194	746561,580	4706787,940	690,520

4195	746562,010	4706747,250	681,270
4196	746562,050	4706757,650	681,570
4197	746562,270	4706747,600	681,250
4198	746562,290	4706712,190	674,820
4199	746562,380	4706716,970	674,200
4200	746562,520	4706720,950	676,350
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4201	746562,530	4706766,420	685,340
4202	746562,700	4706739,510	678,470
4203	746562,850	4706757,410	681,010
4204	746562,850	4706775,140	687,190
4205	746563,080	4706746,410	681,250
4206	746563,350	4706746,730	681,270
4207	746563,460	4706768,710	685,640
4208	746563,790	4706804,550	694,610
4209	746564,020	4706791,490	692,040
4210	746564,090	4706717,400	674,720
4211	746564,180	4706746,060	681,250
4212	746564,400	4706702,820	672,880
4213	746564,430	4706658,880	669,080
4214	746564,460	4706766,640	682,440
4215	746564,520	4706787,900	689,760
4216	746564,540	4706686,950	671,560
4217	746564,630	4706780,650	687,030
4218	746564,670	4706776,770	687,030
4219	746564,770	4706745,020	680,890
4220	746564,790	4706770,590	685,710
4221	746564,910	4706718,070	676,240
4222	746564,980	4706717,010	676,130
4223	746565,130	4706775,210	684,950
4224	746565,160	4706774,090	686,440
4225	746565,170	4706744,790	681,200
4226	746565,330	4706776,720	686,030
4227	746565,370	4706745,110	681,230
4228	746565,470	4706752,430	681,090
4229	746565,610	4706740,500	680,310
4230	746565,690	4706744,510	681,180
4231	746565,740	4706752,370	679,760
4232	746566,030	4706716,310	676,180
4233	746566,060	4706714,610	674,850
4234	746566,070	4706745,290	681,020
4235	746566,290	4706802,040	694,320



4236	746566,340	4706780,180	688,160
4237	746566,640	4706745,480	681,030
4238	746566,790	4706751,020	681,110
4239	746566,850	4706797,330	693,040
4240	746567,160	4706764,480	685,860
4241	746567,750	4706719,790	676,520
4242	746568,000	4706751,710	681,040
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4243	746568,040	4706672,570	670,360
4244	746568,440	4706726,570	676,740
4245	746568,460	4706775,980	687,750
4246	746568,590	4706794,380	692,640
4247	746568,710	4706758,360	684,040
4248	746568,770	4706748,620	681,090
4249	746568,920	4706699,410	671,610
4250	746568,940	4706762,980	685,960
4251	746569,040	4706749,050	681,100
4252	746569,260	4706749,840	680,890
4253	746569,360	4706733,680	678,080
4254	746569,540	4706765,500	686,290
4255	746569,600	4706798,320	693,700
4256	746569,620	4706800,990	695,060
4257	746569,730	4706755,740	683,680
4258	746569,740	4706639,820	665,680
4259	746569,740	4706784,890	688,400
4260	746569,790	4706772,750	687,050
4261	746570,290	4706769,650	683,160
4262	746570,390	4706671,920	669,260
4263	746570,590	4706713,660	674,350
4264	746570,720	4706674,610	670,030
4265	746570,770	4706761,870	686,370
4266	746570,790	4706769,280	686,660
4267	746570,880	4706758,090	684,150
4268	746571,010	4706761,600	686,370
4269	746571,100	4706715,520	676,190
4270	746571,250	4706702,660	673,880
4271	746571,730	4706758,480	686,140
4272	746571,970	4706778,500	688,490
4273	746572,410	4706681,840	670,340
4274	746572,510	4706792,360	689,780
4275	746572,520	4706778,640	689,210
4276	746572,600	4706784,590	689,480
4277	746572,640	4706789,800	690,070

4278	746572,780	4706665,350	668,520
4279	746573,130	4706642,630	667,790
4280	746573,380	4706784,300	689,710
4281	746573,570	4706767,690	687,170
4282	746573,610	4706671,610	669,220
4283	746573,730	4706643,880	667,340
4284	746573,830	4706648,650	667,590
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4285	746573,870	4706734,540	679,940
4286	746574,190	4706720,770	676,590
4287	746574,190	4706727,040	677,860
4288	746574,480	4706767,830	687,860
4289	746574,830	4706672,720	670,240
4290	746574,920	4706753,070	683,790
4291	746575,010	4706783,370	691,040
4292	746575,020	4706793,230	690,720
4293	746575,040	4706736,890	680,470
4294	746575,400	4706755,350	684,550
4295	746575,540	4706737,430	680,550
4296	746575,580	4706755,730	686,200
4297	746576,730	4706710,740	674,280
4298	746576,810	4706714,130	676,220
4299	746577,470	4706754,050	684,580
4300	746578,050	4706716,350	676,440
4301	746578,100	4706761,180	688,060
4302	746578,180	4706713,690	676,280
4303	746578,480	4706698,850	673,520
4304	746578,500	4706758,580	686,880
4305	746578,510	4706799,520	691,940
4306	746578,580	4706739,970	680,750
4307	746578,810	4706727,210	678,080
4308	746578,820	4706749,100	683,940
4309	746579,030	4706740,540	680,810
4310	746580,280	4706741,180	680,610
4311	746580,640	4706747,030	683,820
4312	746580,890	4706770,000	689,940
4313	746580,940	4706769,230	689,330
4314	746581,040	4706752,700	686,390
4315	746581,350	4706638,550	665,220
4316	746582,030	4706779,600	692,560
4317	746582,100	4706687,380	671,470
4318	746582,150	4706774,280	690,440
4319	746582,280	4706749,090	684,430

4320	746582,410	4706774,480	691,320
4321	746583,150	4706752,920	686,650
4322	746583,720	4706728,390	680,020
4323	746584,000	4706755,030	688,240
4324	746584,050	4706721,710	677,560
4325	746584,180	4706786,430	695,080
4326	746584,190	4706728,640	680,010
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4327	746584,350	4706728,910	680,090
4328	746584,880	4706643,700	667,250
4329	746585,050	4706742,350	683,760
4330	746585,090	4706788,580	696,610
4331	746585,500	4706693,420	672,070
4332	746585,610	4706705,760	674,420
4333	746585,680	4706694,200	673,180
4334	746586,150	4706771,120	691,440
4335	746586,500	4706678,420	670,800
4336	746586,800	4706656,510	667,650
4337	746586,900	4706667,970	668,270
4338	746587,320	4706713,850	676,940
4339	746587,450	4706795,420	697,880
4340	746587,480	4706732,470	680,300
4341	746587,670	4706708,220	676,490
4342	746587,710	4706732,690	680,310
4343	746588,210	4706776,110	693,190
4344	746588,390	4706734,060	680,000
4345	746589,170	4706669,070	670,140
4346	746589,490	4706742,610	685,600
4347	746589,660	4706742,260	684,180
4348	746589,790	4706759,590	689,390
4349	746590,500	4706764,690	690,500
4350	746590,660	4706759,590	690,140
4351	746590,680	4706765,210	691,210
4352	746590,920	4706748,390	688,120
4353	746591,480	4706778,730	694,390
4354	746591,920	4706719,560	679,570
4355	746592,440	4706719,780	679,590
4356	746592,520	4706719,920	679,680
4357	746592,570	4706641,990	667,220
4358	746593,870	4706638,270	665,700
4359	746594,230	4706650,900	667,320
4360	746594,630	4706732,650	683,240

4361	746595,150	4706743,490	686,420
4362	746595,200	4706737,320	685,460
4363	746595,200	4706790,700	699,360
4364	746596,100	4706707,110	676,450
4365	746596,220	4706722,970	679,860
4366	746596,430	4706626,180	665,340
4367	746596,570	4706723,120	679,880
4368	746596,600	4706689,920	673,030
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4369	746597,520	4706756,690	690,750
4370	746597,700	4706723,600	679,710
4371	746597,830	4706734,420	684,160
4372	746597,960	4706756,980	691,470
4373	746598,000	4706742,940	688,210
4374	746598,330	4706766,430	693,780
4375	746598,420	4706780,250	698,040
4376	746598,480	4706697,170	674,060
4377	746598,720	4706749,860	689,420
4378	746598,790	4706698,610	675,560
4379	746598,880	4706680,190	671,180
4380	746599,040	4706750,370	690,130
4381	746599,420	4706740,620	686,590
4382	746599,600	4706664,540	668,280
4383	746599,700	4706628,260	665,290
4384	746599,860	4706633,890	666,050
4385	746600,630	4706625,780	665,700
4386	746600,670	4706731,670	684,000
4387	746600,690	4706731,980	685,400
4388	746600,700	4706697,460	674,970
4389	746601,060	4706637,740	666,400
4390	746601,390	4706707,290	678,970
4391	746601,890	4706692,800	673,980
4392	746601,990	4706635,180	666,200
4393	746602,150	4706708,210	679,110
4394	746602,260	4706665,730	670,250
4395	746602,540	4706708,500	679,230
4396	746602,550	4706781,170	700,420
4397	746602,730	4706642,240	667,160
4398	746603,230	4706688,500	673,270
4399	746603,270	4706790,290	702,690
4400	746603,320	4706774,080	698,280
4401	746603,700	4706735,600	685,720

4402	746603,770	4706737,570	687,740
4403	746604,140	4706727,520	683,750
4404	746604,170	4706632,260	666,400
4405	746605,500	4706748,120	690,810
4406	746605,640	4706656,490	668,050
4407	746605,790	4706748,530	691,510
4408	746606,030	4706778,730	701,690
4409	746606,090	4706711,860	679,410
4410	746606,120	4706711,960	679,330
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4411	746606,360	4706680,700	671,390
4412	746606,370	4706784,180	702,690
4413	746606,580	4706741,700	688,810
4414	746606,690	4706767,440	697,900
4415	746606,810	4706741,870	689,800
4416	746606,920	4706713,030	679,040
4417	746606,950	4706681,640	672,620
4418	746607,160	4706661,850	668,410
4419	746607,760	4706719,590	681,820
4420	746607,910	4706641,830	667,800
4421	746608,080	4706636,440	666,880
4422	746608,440	4706719,580	682,650
4423	746608,610	4706696,640	678,470
4424	746608,870	4706785,660	705,850
4425	746609,160	4706744,050	690,620
4426	746609,270	4706756,730	696,450
4427	746609,450	4706744,100	691,060
4428	746610,390	4706735,170	688,770
4429	746610,440	4706697,620	678,640
4430	746610,450	4706728,970	686,640
4431	746610,530	4706739,530	689,960
4432	746610,540	4706697,520	678,780
4433	746610,740	4706685,320	674,810
4434	746610,980	4706724,150	684,250
4435	746611,070	4706780,760	705,920
4436	746611,110	4706674,090	671,090
4437	746611,710	4706675,220	671,270
4438	746611,910	4706640,700	667,090
4439	746612,400	4706712,110	683,430
4440	746612,600	4706782,930	706,110
4441	746613,000	4706678,080	672,170
4442	746613,180	4706716,150	685,110
4443	746614,430	4706748,490	695,390

4444	746614,550	4706644,270	668,160
4445	746614,900	4706699,860	678,820
4446	746614,950	4706772,160	705,090
4447	746615,270	4706722,750	686,590
4448	746615,370	4706699,990	678,730
4449	746615,420	4706709,730	684,800
4450	746615,520	4706726,310	686,480
4451	746615,570	4706661,550	670,520
4452	746616,030	4706700,450	678,580
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4453	746616,830	4706659,370	668,950
4454	746617,530	4706647,410	668,590
4455	746617,840	4706655,230	668,720
4456	746618,070	4706658,380	669,010
4457	746618,170	4706685,750	677,970
4458	746618,380	4706685,980	678,290
4459	746618,590	4706640,920	667,490
4460	746618,600	4706709,690	686,760
4461	746618,610	4706686,210	678,460
4462	746618,690	4706655,230	669,310
4463	746618,760	4706686,650	678,260
4464	746618,950	4706643,760	668,250
4465	746619,080	4706732,000	690,050
4466	746619,130	4706622,580	664,640
4467	746619,270	4706647,200	668,020
4468	746619,450	4706687,080	678,220
4469	746619,480	4706780,570	709,930
4470	746619,530	4706674,800	673,430
4471	746619,740	4706741,290	694,740
4472	746619,980	4706682,690	675,870
4473	746620,220	4706724,610	689,440
4474	746620,340	4706628,330	665,740
4475	746620,590	4706726,820	689,340
4476	746620,620	4706775,850	708,420
4477	746620,860	4706659,940	670,090
4478	746620,940	4706642,430	668,410
4479	746621,030	4706748,050	697,800
4480	746621,690	4706663,800	670,810
4481	746621,750	4706665,840	671,350
4482	746622,190	4706758,560	702,440
4483	746622,390	4706709,330	688,700
4484	746622,390	4706659,040	669,410
4485	746622,640	4706689,250	678,310

4486	746622,920	4706689,540	678,300
4487	746623,130	4706669,160	673,000
4488	746623,380	4706656,410	669,730
4489	746623,420	4706690,360	678,070
4490	746623,890	4706766,470	706,990
4491	746623,910	4706659,120	669,570
4492	746624,160	4706640,730	667,200
4493	746624,170	4706622,830	664,760
4494	746624,750	4706677,940	677,870
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4495	746624,850	4706707,770	689,160
4496	746624,880	4706725,280	692,240
4497	746624,930	4706675,840	676,040
4498	746625,030	4706784,640	714,610
4499	746625,090	4706678,170	677,870
4500	746625,210	4706697,530	682,110
4501	746625,340	4706713,130	690,760
4502	746625,360	4706678,170	677,850
4503	746625,630	4706657,780	670,430
4504	746625,650	4706668,410	673,060
4505	746626,290	4706665,500	671,200
4506	746626,510	4706777,560	712,040
4507	746626,700	4706694,760	681,530
4508	746626,870	4706732,200	694,960
4509	746626,990	4706651,350	670,010
4510	746627,270	4706712,740	689,530
4511	746627,350	4706698,390	681,810
4512	746627,440	4706669,430	674,570
4513	746627,510	4706709,290	687,110
4514	746627,650	4706717,760	692,140
4515	746627,930	4706695,510	680,660
4516	746627,980	4706670,710	674,580
4517	746628,490	4706704,170	684,600
4518	746628,610	4706762,590	706,730
4519	746628,670	4706680,340	677,880
4520	746628,930	4706642,840	669,360
4521	746629,030	4706742,170	699,330
4522	746629,140	4706680,710	677,910
4523	746629,170	4706718,370	691,830
4524	746629,170	4706670,330	675,670
4525	746629,260	4706728,910	694,770
4526	746629,370	4706639,600	667,340

4527	746629,550	4706680,750	677,630
4528	746629,560	4706704,200	685,570
4529	746629,570	4706666,520	673,760
4530	746629,690	4706687,820	679,330
4531	746629,870	4706749,440	702,600
4532	746629,870	4706687,540	679,050
4533	746629,880	4706668,670	673,330
4534	746630,120	4706759,360	704,840
4535	746630,130	4706725,390	694,700
4536	746630,170	4706728,070	695,300
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4537	746630,290	4706621,160	666,000
4538	746630,550	4706631,180	666,410
4539	746630,770	4706667,870	675,720
4540	746631,250	4706770,840	712,690
4541	746631,550	4706725,180	693,990
4542	746631,580	4706669,000	677,480
4543	746631,580	4706669,010	677,600
4544	746631,820	4706669,290	677,490
4545	746631,980	4706694,050	682,340
4546	746632,250	4706715,710	693,110
4547	746632,760	4706779,350	715,520
4548	746632,890	4706707,880	690,600
4549	746633,020	4706730,780	696,570
4550	746633,150	4706643,680	669,860
4551	746633,880	4706739,680	700,110
4552	746634,030	4706664,320	677,280
4553	746634,150	4706641,590	669,360
4554	746634,290	4706664,640	677,320
4555	746634,290	4706736,400	698,640
4556	746634,310	4706664,020	677,150
4557	746634,310	4706729,410	695,760
4558	746634,490	4706676,270	677,160
4559	746634,530	4706675,370	676,990
4560	746634,550	4706719,240	695,290
4561	746634,610	4706685,160	680,730
4562	746634,650	4706688,190	681,710
4563	746635,050	4706671,890	677,530
4564	746635,080	4706769,510	712,700
4565	746635,110	4706673,120	677,300
4566	746635,380	4706672,000	677,500
4567	746635,420	4706680,790	679,670

4568	746635,720	4706773,190	715,600
4569	746635,910	4706672,320	675,590
4570	746636,130	4706621,990	666,790
4571	746636,150	4706608,950	663,870
4572	746636,380	4706671,320	677,300
4573	746636,450	4706649,580	672,610
4574	746636,630	4706677,950	678,160
4575	746636,990	4706702,840	688,860
4576	746637,010	4706725,100	698,000
4577	746637,060	4706670,760	677,070
4578	746637,120	4706736,470	701,660
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4579	746637,190	4706758,250	710,380
4580	746637,720	4706739,880	702,450
4581	746637,810	4706732,190	698,820
4582	746637,900	4706680,560	680,320
4583	746638,370	4706658,760	677,060
4584	746638,460	4706679,090	679,330
4585	746638,570	4706697,470	685,580
4586	746638,680	4706658,910	677,100
4587	746638,740	4706731,690	698,960
4588	746638,780	4706769,560	712,080
4589	746639,220	4706676,360	680,140
4590	746639,250	4706658,950	677,140
4591	746639,850	4706694,020	686,900
4592	746640,040	4706772,560	713,830
4593	746640,530	4706737,190	703,310
4594	746640,710	4706632,550	669,630
4595	746640,850	4706673,530	679,650
4596	746641,300	4706729,380	700,790
4597	746641,330	4706758,560	712,450
4598	746641,470	4706762,400	714,420
4599	746641,830	4706734,310	702,330
4600	746642,300	4706661,580	677,160
4601	746642,550	4706671,460	680,460
4602	746642,560	4706661,840	677,140
4603	746642,800	4706738,540	704,540
4604	746642,950	4706737,490	704,540
4605	746643,720	4706662,240	676,420
4606	746643,910	4706711,910	695,570
4607	746644,270	4706734,570	704,200
4608	746644,800	4706776,310	720,860
4609	746644,970	4706767,760	717,460

4610	746645,380	4706612,270	667,130
4611	746645,630	4706643,600	676,300
4612	746646,380	4706722,970	701,730
4613	746646,550	4706700,090	692,570
4614	746646,580	4706619,620	668,350
4615	746646,700	4706733,100	705,130
4616	746647,040	4706668,270	681,740
4617	746647,110	4706749,040	710,290
4618	746647,380	4706773,400	721,220
4619	746648,200	4706686,240	685,920
4620	746648,300	4706645,640	676,590
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4621	746648,330	4706770,870	720,630
4622	746649,070	4706646,010	676,620
4623	746649,590	4706635,930	675,960
4624	746650,590	4706659,370	681,350
4625	746650,690	4706766,440	720,260
4626	746651,240	4706717,250	701,450
4627	746652,120	4706739,990	710,900
4628	746652,220	4706648,640	676,630
4629	746652,780	4706649,010	676,570
4630	746653,000	4706649,290	676,440
4631	746653,200	4706674,970	687,090
4632	746654,340	4706624,090	672,490
4633	746654,400	4706732,230	709,000
4634	746655,770	4706753,540	715,900
4635	746655,800	4706766,600	721,720
4636	746655,870	4706713,740	702,080
4637	746656,640	4706615,770	670,120
4638	746656,960	4706647,810	680,300
4639	746657,620	4706627,760	675,620
4640	746659,900	4706629,600	676,010
4641	746660,400	4706642,880	679,530
4642	746660,470	4706630,010	676,040
4643	746660,560	4706623,060	675,580
4644	746661,260	4706664,980	688,840
4645	746662,400	4706634,550	676,240
4646	746662,850	4706728,740	711,030
4647	746662,970	4706755,420	719,680
4648	746663,420	4706700,180	699,830
4649	746664,330	4706672,710	692,210
4650	746664,700	4706632,780	676,040
4651	746664,980	4706637,150	679,200



4652	746665,410	4706632,850	675,930
4653	746666,490	4706770,620	727,030
4654	746667,140	4706710,260	706,700
4655	746667,150	4706739,000	716,780
4656	746668,250	4706647,250	683,000
4657	746669,120	4706686,430	698,560
4658	746671,010	4706748,340	722,720
4659	746671,350	4706720,210	711,420
4660	746673,200	4706655,160	687,910
4661	746673,760	4706699,940	705,260
4662	746676,150	4706757,250	727,530
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
4663	746676,510	4706707,240	709,140
4664	746676,550	4706728,920	718,050
4665	746677,660	4706763,850	730,330
4666	746678,180	4706667,970	695,330
4667	746679,750	4706715,850	713,980
4668	746680,950	4706738,380	723,460
4669	746682,980	4706726,450	719,770
4670	746683,050	4706680,480	702,250
4671	746686,440	4706750,740	729,540
4672	746687,350	4706691,150	707,540
4673	746690,230	4706739,530	728,460
4674	746690,740	4706758,360	734,110
4675	746691,360	4706703,770	715,560
4676	746693,650	4706747,830	733,490
4677	746696,270	4706717,210	723,890
4678	746699,790	4706728,070	731,190
4679	746702,860	4706760,120	743,570
4680	746704,540	4706738,830	737,820
4681	746708,920	4706751,730	745,340

P.K. 2+450 Viaducto 1 sobre el Río Ara

Punto	X	Y	Z
3000	745798,190	4706440,620	658,280
3001	745807,680	4706425,590	658,380
3002	745811,280	4706448,700	658,020
3003	745813,790	4706451,500	658,000
3004	745815,870	4706436,490	658,090
3005	745817,350	4706409,360	658,310
3006	745817,580	4706450,410	658,040
3007	745819,750	4706451,240	657,510

3008	745822,330	4706441,230	658,010
3009	745822,820	4706394,520	658,330
3010	745825,640	4706421,940	658,200
3011	745826,090	4706445,840	657,950
3012	745832,920	4706374,710	658,380
3013	745835,700	4706401,230	658,240
3014	745837,810	4706429,110	657,980
3015	745838,270	4706389,030	658,290
3016	745838,600	4706439,690	657,810
3017	745838,920	4706440,050	657,830
3018	745843,070	4706366,770	658,530
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
3019	745843,910	4706353,160	658,530
3020	745845,500	4706465,090	654,100
3021	745845,660	4706451,810	655,320
3022	745847,160	4706435,360	657,930
3023	745848,370	4706436,050	657,330
3024	745849,360	4706412,150	657,940
3025	745850,100	4706418,260	657,760
3026	745850,620	4706437,790	656,890
3027	745852,970	4706442,540	655,420
3028	745853,370	4706398,410	658,010
3029	745854,270	4706340,870	658,600
3030	745856,170	4706448,520	654,080
3031	745856,950	4706429,490	657,670
3032	745857,140	4706429,910	657,810
3033	745859,200	4706443,610	653,910
3034	745863,980	4706439,000	653,970
3035	745864,500	4706369,760	658,300
3036	745864,840	4706405,810	657,850
3037	745868,620	4706383,260	658,020
3038	745870,160	4706351,590	658,480
3039	745873,550	4706420,730	657,640
3040	745873,750	4706421,840	657,700
3041	745876,340	4706395,780	657,860
3042	745876,490	4706488,960	654,100
3043	745878,580	4706489,620	654,720
3044	745883,750	4706371,650	658,230
3045	745888,570	4706359,720	658,330
3046	745889,240	4706481,390	654,850
3047	745889,680	4706409,420	657,860
3048	745891,250	4706411,580	657,780

3049	745892,300	4706476,550	653,970
3050	745895,870	4706494,720	654,200
3051	745898,680	4706411,890	655,010
3052	745899,040	4706412,070	653,090
3053	745899,330	4706400,930	657,860
3054	745900,040	4706383,610	658,020
3055	745900,370	4706403,230	657,820
3056	745900,670	4706472,170	654,750
3057	745900,870	4706387,660	657,990
3058	745902,650	4706483,920	654,150
3059	745907,770	4706466,330	654,700
3060	745914,240	4706385,240	657,970
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
3061	745916,190	4706467,030	654,120
3062	745917,680	4706386,450	657,860
3063	745918,710	4706452,290	653,390
3064	745919,350	4706504,620	654,200
3065	745919,460	4706507,040	654,800
3066	745920,750	4706388,380	658,290
3067	745923,200	4706451,270	654,170
3068	745925,420	4706499,650	654,060
3069	745926,210	4706379,980	657,900
3070	745926,940	4706500,480	654,800
3071	745929,190	4706512,070	655,300
3072	745930,740	4706450,390	653,790
3073	745933,500	4706501,770	654,680
3074	745934,180	4706435,560	653,470
3075	745934,510	4706436,920	653,630
3076	745936,880	4706491,410	654,290
3077	745937,400	4706491,630	654,700
3078	745938,470	4706434,230	653,420
3079	745938,810	4706494,030	654,760
3080	745942,090	4706510,080	655,350
3081	745943,460	4706520,120	655,660
3082	745944,360	4706484,690	654,300
3083	745945,820	4706439,640	653,540
3084	745946,390	4706439,690	653,630
3085	745946,470	4706496,600	654,800
3086	745946,760	4706486,780	654,750
3087	745947,360	4706454,310	654,000
3088	745948,910	4706424,010	653,160
3089	745950,130	4706404,820	652,440
3090	745950,340	4706468,590	654,010

3091	745950,690	4706395,200	652,020
3092	745952,310	4706479,160	654,280
3093	745952,640	4706426,310	653,630
3094	745953,670	4706505,950	655,200
3095	745955,990	4706516,960	655,270
3096	745956,540	4706500,130	654,920
3097	745956,630	4706490,900	654,370
3098	745957,170	4706509,420	654,790
3099	745957,210	4706528,460	655,760
3100	745957,750	4706409,540	653,010
3101	745959,050	4706498,650	655,280
3102	745959,410	4706433,440	653,740
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
3103	745960,440	4706462,560	654,350
3104	745960,560	4706505,740	655,180
3105	745962,150	4706511,750	655,300
3106	745963,020	4706496,040	655,130
3107	745964,170	4706484,450	654,250
3108	745967,100	4706473,860	654,280
3109	745968,480	4706424,440	653,600
3110	745968,820	4706347,830	654,460
3111	745969,010	4706516,510	655,390
3112	745969,130	4706529,070	655,770
3113	745971,030	4706350,690	651,970
3114	745971,500	4706444,460	654,390
3115	745972,170	4706488,340	653,910
3116	745973,870	4706483,340	654,340
3117	745975,570	4706503,400	655,140
3118	745978,300	4706476,340	654,660
3119	745978,550	4706540,230	656,200
3120	745979,470	4706460,100	654,280
3121	745979,930	4706492,600	655,080
3122	745982,180	4706416,490	653,740
3123	745982,330	4706510,270	655,240
3124	745984,130	4706484,100	653,420
3125	745985,110	4706487,660	654,920
3126	745985,540	4706427,050	654,100
3127	745986,660	4706508,160	655,110
3128	745989,920	4706526,220	655,820
3129	745990,160	4706443,780	654,360
3130	745990,500	4706462,870	654,220
3131	745993,330	4706453,740	654,380
3132	745993,810	4706471,770	654,300

3133	745995,200	4706543,020	656,310
3134	745995,320	4706550,350	656,470
3135	745996,980	4706478,420	653,330
3136	745997,500	4706507,890	655,550
3137	745998,230	4706493,960	655,380
3138	746001,900	4706431,930	654,430
3139	746004,410	4706474,830	653,450
3140	746004,600	4706448,130	654,170
3141	746004,650	4706477,640	653,460
3142	746004,830	4706520,860	655,870
3143	746005,050	4706464,350	652,800
3144	746006,440	4706535,640	655,940
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
3145	746006,590	4706487,260	655,300
3146	746006,610	4706479,370	654,870
3147	746006,920	4706469,540	653,660
3148	746007,110	4706559,920	656,930
3149	746008,700	4706553,530	656,730
3150	746010,030	4706458,650	654,330
3151	746010,150	4706478,340	654,970
3152	746014,080	4706480,770	654,870
3153	746014,590	4706465,480	652,820
3154	746015,260	4706480,270	654,840
3155	746015,370	4706476,460	654,920
3156	746015,660	4706436,260	654,160
3157	746016,990	4706519,390	655,760
3158	746017,040	4706468,380	652,900
3159	746017,540	4706475,300	654,920
3160	746018,120	4706473,810	653,910
3161	746019,870	4706501,960	655,380
3162	746020,390	4706568,170	657,510
3163	746020,850	4706536,700	656,290
3164	746021,200	4706461,640	653,430
3165	746021,230	4706452,780	654,140
3166	746021,500	4706459,320	654,060
3167	746024,280	4706546,310	656,710
3168	746027,930	4706469,810	653,510
3169	746028,070	4706525,680	655,880
3170	746028,470	4706469,890	654,710
3171	746029,280	4706455,580	653,830
3172	746029,380	4706497,860	655,360
3173	746030,610	4706481,170	654,880

3174	746031,070	4706446,420	653,970
3175	746037,520	4706538,180	656,380
3176	746038,270	4706577,610	657,080
3177	746039,500	4706461,000	652,830
3178	746039,700	4706569,640	656,970
3179	746040,450	4706512,530	655,580
3180	746040,580	4706555,410	656,690
3181	746044,200	4706464,310	653,370
3182	746044,480	4706465,160	654,500
3183	746050,690	4706501,550	655,180
3184	746050,780	4706550,390	656,380
3185	746051,130	4706488,070	655,330
3186	746051,650	4706475,300	654,920
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
3187	746052,600	4706567,500	656,260
3188	746052,620	4706577,350	656,290
3189	746052,790	4706536,780	656,010
3190	746052,810	4706586,590	657,050
3191	746052,920	4706454,330	652,780
3192	746057,400	4706581,940	656,690
3193	746058,430	4706558,540	656,010
3194	746061,040	4706457,240	653,370
3195	746061,490	4706457,770	655,010
3196	746061,690	4706529,140	655,760
3197	746062,430	4706514,080	655,260
3198	746062,800	4706467,090	654,690
3199	746063,040	4706542,230	655,800
3200	746065,100	4706494,990	655,090
3201	746065,580	4706573,170	656,330
3202	746070,900	4706551,120	655,800
3203	746071,210	4706593,230	656,660
3204	746072,570	4706559,160	655,500
3205	746073,700	4706451,350	653,490
3206	746075,650	4706568,700	655,700
3207	746075,980	4706451,750	654,700
3208	746076,110	4706519,570	655,120
3209	746076,810	4706578,940	656,200
3210	746078,030	4706549,390	655,340
3211	746078,120	4706558,740	656,060
3212	746078,360	4706558,900	655,690
3213	746079,170	4706537,530	655,260
3214	746079,340	4706503,560	654,730

3215	746079,570	4706482,440	654,760
3216	746080,820	4706458,890	654,570
3217	746080,920	4706582,380	658,750
3218	746082,590	4706601,270	663,730
3219	746082,650	4706595,800	663,780
3220	746082,970	4706562,390	655,500
3221	746086,560	4706585,220	663,540
3222	746087,030	4706545,750	656,220
3223	746087,170	4706545,940	655,950
3224	746087,980	4706587,730	663,510
3225	746089,060	4706551,710	655,360
3226	746092,170	4706574,500	662,990
3227	746092,440	4706474,030	654,600
3228	746093,580	4706521,040	655,070
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
3229	746093,880	4706495,830	654,460
3230	746094,800	4706603,670	664,740
3231	746095,110	4706540,540	655,410
3232	746095,280	4706540,530	655,090
3233	746095,520	4706540,050	654,910
3234	746096,840	4706543,260	655,210
3235	746098,510	4706566,460	662,950
3236	746099,270	4706578,710	663,660
3237	746099,430	4706508,980	654,830
3238	746099,430	4706553,570	659,640
3239	746103,350	4706558,370	663,040
3240	746103,560	4706517,800	654,850
3241	746104,600	4706590,650	664,490
3242	746105,490	4706498,270	654,340
3243	746105,540	4706532,600	654,850
3244	746108,260	4706553,670	662,900
3245	746109,130	4706612,790	665,230
3246	746109,140	4706567,030	663,350
3247	746109,240	4706534,570	654,720
3248	746109,680	4706483,310	654,460
3249	746111,350	4706549,110	663,090
3250	746112,320	4706513,110	654,680
3251	746112,420	4706506,580	654,970
3252	746114,450	4706510,840	655,090
3253	746114,550	4706525,830	654,490
3254	746115,380	4706505,530	655,210
3255	746116,180	4706578,360	664,240
3256	746116,710	4706557,040	663,080

3257	746118,070	4706529,830	654,550
3258	746118,590	4706508,140	654,430
3259	746118,690	4706548,040	662,790
3260	746118,790	4706498,320	654,140
3261	746118,900	4706504,020	654,920
3262	746118,940	4706603,250	665,090
3263	746119,130	4706537,110	657,500
3264	746120,510	4706617,180	665,570
3265	746121,720	4706620,590	666,530
3266	746122,600	4706505,530	655,190
3267	746123,890	4706494,650	654,040
3268	746124,650	4706505,200	654,480
3269	746125,160	4706516,500	654,350
3270	746125,410	4706527,590	654,440
<b>Punto</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
3271	746127,740	4706567,080	663,690
3272	746128,930	4706612,580	666,360
3273	746129,870	4706542,330	662,930
3274	746129,890	4706608,150	665,320
3275	746130,270	4706543,800	662,940
3276	746130,820	4706552,280	663,100
3277	746131,580	4706585,610	664,580
3278	746131,830	4706509,750	654,280
3279	746134,190	4706601,340	665,120
3280	746134,990	4706506,890	654,120
3281	746137,130	4706522,720	654,230
3282	746138,450	4706540,600	663,010
3283	746141,850	4706557,020	663,440
3284	746143,090	4706587,620	664,680
3285	746143,760	4706569,420	664,190
3286	746144,130	4706536,710	663,290
3287	746146,100	4706519,200	654,010
3288	746146,880	4706536,110	663,210
3289	746147,760	4706545,000	663,360
3290	746149,320	4706555,220	663,670
3291	746152,280	4706553,000	663,670
3292	746152,350	4706556,400	663,740
3293	746152,580	4706526,250	659,830
3294	746152,660	4706554,300	663,760
3295	746154,190	4706530,260	663,030
3296	746156,500	4706529,880	662,870
3297	746156,680	4706578,290	664,650
3298	746157,800	4706565,090	664,250

3299	746158,280	4706538,010	663,100
3300	746158,320	4706513,110	653,810
3301	746161,710	4706549,970	663,420
3302	746163,280	4706551,110	663,400
3303	746164,390	4706525,390	662,820
3304	746164,700	4706552,780	663,760
3305	746165,400	4706523,190	662,820
3306	746166,790	4706527,740	662,740
3307	746172,850	4706519,110	662,570
3308	746174,140	4706521,790	662,530

P.K. 4+180 Viaducto 2 sobre el Río Ara

Punto	X	Y	Z
2000	744257.44	4706776.01	678.61
2001	744257.48	4706787.49	678.68
2002	744258.66	4706774.45	678.70
2003	744260.04	4706772.28	674.78
2004	744262.77	4706769.52	674.51
2005	744263.16	4706805.86	678.51
2006	744263.87	4706795.75	678.50
2007	744265.45	4706780.79	678.44
2008	744266.27	4706778.18	674.86
2009	744266.80	4706845.40	682.01
2010	744266.90	4706849.59	682.30
2011	744267.81	4706844.53	682.20
2012	744268.85	4706824.20	678.82
2013	744269.71	4706785.44	678.18
2014	744270.74	4706773.71	674.15
2015	744271.69	4706810.38	678.38
2016	744272.47	4706839.70	679.44
2017	744276.82	4706843.08	679.38
2018	744277.63	4706781.55	674.11
2019	744277.77	4706837.44	679.22
2020	744278.31	4706850.82	681.91
2021	744279.29	4706876.14	683.56
2022	744280.40	4706793.00	677.75
2023	744281.59	4706769.10	673.92
2024	744281.83	4706851.53	682.05
2025	744282.36	4706790.91	677.59
2026	744282.47	4706790.26	674.92

Punto	X	Y	Z
2027	744283.27	4706866.24	682.45
2028	744283.73	4706786.98	673.92
2029	744284.25	4706804.85	677.58
2030	744284.57	4706846.23	679.18
2031	744284.70	4706827.70	678.35
2032	744286.12	4706899.50	684.97
2033	744286.93	4706893.66	684.23
2034	744288.02	4706775.22	673.83
2035	744288.69	4706851.29	679.17
2036	744288.89	4706784.69	673.80
2037	744289.45	4706878.96	682.80
2038	744289.49	4706818.49	677.93
2039	744290.65	4706802.05	677.37
2040	744290.91	4706906.01	684.55
2041	744291.16	4706901.76	683.81
2042	744291.88	4706904.42	683.82
2043	744292.05	4706859.56	681.75
2044	744292.80	4706899.00	684.09
2045	744294.31	4706764.30	673.71
2046	744295.52	4706860.69	681.72
2047	744296.59	4706836.16	678.36
2048	744297.37	4706759.30	673.85
2049	744297.38	4706805.30	677.37
2050	744297.97	4706886.27	682.53
2051	744298.32	4706855.78	678.75
2052	744298.46	4706904.95	683.81
2053	744298.48	4706792.16	673.61
2054	744298.55	4706804.10	674.95
2055	744298.55	4706775.63	673.69
2056	744299.02	4706776.72	673.75
2057	744299.08	4706844.42	678.39
2058	744300.28	4706898.31	682.92
2059	744300.56	4706809.59	677.18
2060	744301.07	4706818.23	677.22
2061	744301.36	4706774.89	673.73
2062	744301.47	4706783.81	673.66
2063	744301.52	4706900.45	682.74
2064	744301.70	4706764.81	673.90



Punto	X	Y	Z
2065	744302.26	4706902.99	682.87
2066	744302.44	4706905.18	683.28
2067	744302.48	4706861.83	678.71
2068	744302.89	4706797.71	673.75
2069	744303.21	4706810.62	677.20
2070	744303.27	4706765.38	673.89
2071	744303.45	4706869.64	681.24
2072	744303.87	4706761.79	674.21
2073	744304.40	4706811.61	677.08
2074	744305.12	4706810.77	675.52
2075	744305.16	4706869.99	681.37
2076	744305.74	4706760.46	673.87
2077	744305.74	4706771.90	673.75
2078	744306.04	4706776.93	673.78
2079	744306.13	4706907.62	683.00
2080	744306.16	4706768.82	673.80
2081	744306.22	4706896.30	682.47
2082	744306.54	4706817.66	677.11
2083	744306.56	4706817.06	677.79
2084	744306.96	4706772.33	673.85
2085	744307.24	4706852.22	678.37
2086	744307.80	4706905.18	682.60
2087	744307.85	4706774.47	673.68
2088	744308.35	4706826.97	677.21
2089	744308.98	4706768.12	674.23
2090	744309.25	4706888.54	681.64
2091	744309.30	4706772.76	673.98
2092	744309.51	4706810.98	674.71
2093	744309.66	4706896.29	681.61
2094	744309.85	4706898.09	681.90
2095	744310.88	4706901.51	682.17
2096	744311.16	4706810.86	674.91
2097	744311.20	4706865.82	678.41
2098	744311.24	4706824.26	675.45
2099	744311.38	4706799.98	674.61
2100	744311.49	4706901.07	682.08
2101	744311.56	4706901.95	681.99
2102	744311.95	4706824.15	675.56
2103	744312.31	4706837.51	677.40

Punto	X	Y	Z
2104	744312.39	4706781.10	673.57
2105	744312.66	4706873.78	680.30
2106	744313.11	4706872.69	679.63
2107	744313.42	4706811.09	674.89
2108	744313.70	4706876.37	680.91
2109	744313.72	4706834.78	676.10
2110	744313.81	4706745.43	673.94
2111	744314.46	4706834.45	676.18
2112	744314.68	4706783.16	674.08
2113	744314.77	4706823.68	675.51
2114	744314.81	4706891.56	681.43
2115	744314.94	4706779.00	673.82
2116	744315.04	4706821.53	675.45
2117	744315.28	4706795.28	674.45
2118	744315.49	4706758.46	673.80
2119	744315.66	4706804.74	674.61
2120	744315.72	4706813.44	674.91
2121	744315.92	4706771.48	673.63
2122	744316.38	4706796.67	674.34
2123	744316.50	4706848.32	677.73
2124	744316.78	4706817.10	675.21
2125	744316.92	4706834.06	676.10
2126	744317.14	4706795.46	674.34
2127	744317.25	4706818.46	675.23
2128	744317.39	4706831.62	676.11
2129	744317.47	4706824.68	675.90
2130	744317.66	4706891.56	680.48
2131	744317.82	4706824.46	675.87
2132	744318.05	4706846.60	676.62
2133	744318.09	4706794.99	674.17
2134	744318.16	4706893.69	680.68
2135	744318.18	4706807.38	673.68
2136	744318.66	4706882.68	680.54
2137	744318.77	4706846.06	676.83
2138	744318.84	4706810.61	673.57
2139	744318.92	4706824.09	676.22
2140	744318.97	4706778.34	674.88
2141	744319.00	4706798.37	673.67
2142	744319.34	4706777.85	673.74

Punto	X	Y	Z
2143	744319.34	4706903.82	681.34
2144	744319.42	4706826.64	676.67
2145	744319.45	4706782.88	674.20
2146	744319.54	4706788.01	674.36
2147	744319.88	4706741.57	672.00
2148	744320.16	4706826.40	676.82
2149	744320.35	4706898.47	680.94
2150	744320.52	4706889.57	679.93
2151	744320.59	4706895.64	680.79
2152	744321.06	4706789.44	674.11
2153	744321.07	4706856.13	677.30
2154	744321.14	4706845.23	676.89
2155	744321.28	4706872.87	678.27
2156	744321.54	4706885.36	680.34
2157	744321.57	4706860.34	677.82
2158	744321.84	4706843.18	677.21
2159	744322.18	4706781.61	674.86
2160	744322.20	4706900.00	680.85
2161	744322.28	4706855.60	677.45
2162	744322.43	4706781.40	674.28
2163	744323.05	4706790.01	674.02
2164	744323.12	4706747.13	672.15
2165	744323.26	4706830.95	676.54
2166	744323.60	4706781.82	674.06
2167	744323.99	4706830.93	676.78
2168	744324.09	4706881.52	679.74
2169	744324.66	4706854.53	677.48
2170	744324.69	4706886.56	679.65
2171	744324.77	4706809.13	673.36
2172	744324.92	4706883.13	679.28
2173	744324.93	4706866.95	677.99
2174	744325.20	4706896.38	680.36
2175	744325.37	4706784.56	674.11
2176	744325.49	4706764.11	673.63
2177	744325.55	4706873.93	678.27
2178	744325.73	4706771.76	673.49
2179	744325.77	4706855.46	677.72
2180	744326.20	4706866.59	678.14

Punto	X	Y	Z
2181	744326.20	4706824.20	673.40
2182	744326.43	4706883.82	679.36
2183	744326.92	4706888.82	680.01
2184	744327.16	4706876.80	678.74
2185	744327.20	4706794.45	673.68
2186	744327.88	4706875.75	678.73
2187	744328.35	4706892.51	680.01
2188	744328.80	4706866.58	678.23
2189	744329.26	4706884.28	679.61
2190	744329.39	4706865.35	678.12
2191	744329.57	4706774.71	673.64
2192	744329.62	4706838.78	676.52
2193	744329.67	4706756.92	673.36
2194	744329.73	4706847.27	676.94
2195	744329.87	4706829.09	673.23
2196	744329.98	4706838.46	676.71
2197	744330.01	4706774.33	673.70
2198	744330.51	4706875.74	679.03
2199	744330.66	4706885.77	679.41
2200	744330.98	4706870.69	678.31
2201	744331.45	4706772.21	676.15
2202	744331.72	4706785.88	673.74
2203	744331.74	4706878.94	678.96
2204	744331.95	4706781.48	673.49
2205	744332.26	4706765.11	673.60
2206	744332.41	4706777.86	673.61
2207	744332.48	4706854.88	677.12
2208	744333.35	4706764.91	676.49
2209	744333.50	4706765.18	676.35
2210	744334.46	4706860.48	677.28
2211	744334.96	4706803.88	673.38
2212	744335.15	4706768.80	676.36
2213	744335.44	4706755.47	671.42
2214	744335.71	4706893.11	679.12
2215	744335.77	4706761.87	672.71
2216	744335.93	4706878.07	678.29
2217	744336.04	4706785.61	673.41
2218	744336.19	4706762.53	676.63

Punto	X	Y	Z
2219	744336.22	4706767.82	676.49
2220	744336.35	4706767.93	676.52
2221	744336.37	4706765.28	676.51
2222	744336.43	4706780.16	673.10
2223	744336.72	4706762.78	676.66
2224	744337.05	4706777.49	673.37
2225	744337.20	4706784.43	673.67
2226	744337.26	4706766.37	676.54
2227	744337.27	4706827.03	673.17
2228	744337.56	4706764.29	676.54
2229	744337.68	4706850.70	676.35
2230	744338.44	4706765.34	676.54
2231	744338.57	4706764.63	676.71
2232	744338.80	4706765.25	676.55
2233	744338.97	4706850.20	676.72
2234	744339.08	4706765.53	672.62
2235	744339.16	4706755.66	671.85
2236	744339.43	4706787.12	673.37
2237	744340.12	4706895.30	678.66
2238	744340.62	4706782.51	673.07
2239	744341.36	4706787.57	673.92
2240	744341.74	4706868.56	677.08
2241	744341.77	4706814.60	673.26
2242	744342.50	4706780.08	673.08
2243	744342.87	4706804.77	673.41
2244	744342.99	4706791.38	673.32
2245	744343.37	4706880.58	677.83
2246	744343.58	4706790.32	673.88
2247	744344.00	4706776.00	672.74
2248	744345.46	4706846.24	672.78
2249	744345.50	4706865.32	676.56
2250	744345.83	4706786.05	672.93
2251	744346.07	4706771.53	672.69
2252	744346.17	4706762.84	671.61
2253	744346.68	4706864.67	677.00
2254	744347.40	4706783.25	672.97
2255	744348.51	4706767.56	671.94
2256	744348.94	4706751.26	676.75
2257	744350.37	4706753.55	677.19

Punto	X	Y	Z
2258	744351.00	4706890.22	677.63
2259	744351.23	4706844.88	672.97
2260	744351.64	4706871.84	676.66
2261	744352.44	4706769.50	671.85
2262	744352.55	4706870.48	677.13
2263	744352.57	4706783.66	673.20
2264	744352.59	4706833.12	673.04
2265	744353.44	4706853.64	673.07
2266	744353.46	4706836.71	673.01
2267	744353.63	4706830.13	673.16
2268	744353.67	4706803.98	673.20
2269	744354.28	4706835.49	673.30
2270	744354.30	4706794.33	672.69
2271	744354.66	4706803.45	674.25
2272	744354.66	4706829.56	673.16
2273	744354.93	4706765.42	671.11
2274	744355.11	4706881.34	677.01
2275	744355.55	4706793.53	672.69
2276	744355.75	4706814.81	673.20
2277	744357.25	4706809.22	673.17
2278	744357.81	4706831.88	673.51
2279	744357.86	4706839.75	673.11
2280	744357.95	4706842.13	672.87
2281	744358.68	4706808.38	674.09
2282	744358.72	4706742.04	676.82
2283	744358.91	4706831.97	673.31
2284	744359.13	4706791.66	673.14
2285	744360.46	4706743.94	676.77
2286	744361.41	4706836.53	673.66
2287	744361.44	4706878.11	676.18
2288	744362.50	4706876.72	676.67
2289	744363.04	4706802.46	672.46
2290	744363.82	4706801.09	672.60
2291	744364.14	4706836.42	672.97
2292	744364.72	4706799.51	672.95
2293	744365.06	4706779.86	672.16
2294	744365.19	4706785.56	672.14
2295	744366.41	4706890.77	676.37
2296	744367.00	4706820.37	673.10

Punto	X	Y	Z
2297	744367.01	4706777.61	671.07
2298	744368.12	4706819.27	673.99
2299	744370.55	4706882.14	676.17
2300	744371.31	4706861.38	672.84
2301	744371.88	4706845.18	672.96
2302	744373.15	4706870.07	672.74
2303	744373.71	4706785.14	671.06
2304	744374.05	4706724.97	671.64
2305	744374.67	4706886.73	675.63
2306	744375.29	4706819.04	672.29
2307	744375.61	4706799.48	672.09
2308	744376.06	4706819.12	672.26
2309	744376.30	4706886.09	675.69
2310	744377.74	4706793.19	671.82
2311	744378.09	4706817.58	672.27
2312	744379.35	4706816.43	672.83
2313	744380.05	4706853.51	672.89
2314	744381.23	4706835.06	673.02
2315	744381.91	4706835.26	673.00
2316	744382.20	4706795.82	671.02
2317	744383.11	4706827.07	672.17
2318	744383.47	4706826.75	672.16
2319	744384.03	4706831.56	672.98
2320	744384.21	4706870.37	672.72
2321	744385.05	4706880.73	672.72
2322	744385.41	4706824.72	672.20
2323	744386.54	4706812.08	672.35
2324	744387.12	4706860.94	672.80
2325	744387.55	4706823.72	672.48
2326	744387.98	4706831.36	672.13
2327	744388.23	4706830.09	672.10
2328	744389.72	4706827.54	672.12
2329	744390.61	4706845.80	673.08
2330	744390.74	4706837.92	672.93
2331	744391.20	4706847.17	672.78
2332	744391.55	4706844.84	673.51
2333	744393.63	4706826.35	672.50
2334	744394.33	4706839.66	672.27

Punto	X	Y	Z
2335	744395.09	4706827.41	672.44
2336	744396.02	4706891.48	672.30
2337	744396.28	4706852.38	673.02
2338	744396.56	4706842.92	672.47
2339	744397.07	4706736.11	675.22
2340	744398.25	4706872.21	672.66
2341	744398.68	4706735.02	674.29
2342	744398.80	4706841.19	672.24
2343	744399.20	4706831.34	671.61
2344	744399.68	4706886.70	672.39
2345	744399.83	4706834.42	671.63
2346	744400.03	4706824.98	672.09
2347	744400.94	4706848.30	672.56
2348	744401.68	4706734.04	676.33
2349	744403.86	4706852.72	673.24
2350	744405.33	4706731.78	677.29
2351	744407.66	4706833.71	670.89
2352	744408.32	4706844.57	672.28
2353	744408.38	4706855.61	672.53
2354	744409.52	4706763.94	671.02
2355	744409.84	4706853.69	672.45
2356	744410.22	4706747.42	675.22
2357	744410.58	4706838.75	670.91
2358	744411.02	4706830.55	670.96
2359	744411.25	4706878.99	672.44
2360	744411.37	4706730.01	677.41
2361	744411.64	4706834.25	670.61
2362	744412.66	4706746.71	674.22
2363	744412.78	4706746.69	674.20
2364	744414.41	4706733.36	677.29
2365	744414.69	4706745.22	675.04
2366	744414.80	4706752.42	675.41
2367	744416.32	4706750.76	674.13
2368	744416.62	4706845.59	671.59
2369	744418.10	4706876.47	672.47
2370	744418.98	4706739.84	676.86
2371	744420.45	4706871.52	673.11
2372	744422.89	4706731.16	677.37

Punto	X	Y	Z
2373	744424.92	4706869.33	672.64
2374	744425.11	4706859.71	671.73
2375	744428.20	4706763.48	675.17
2376	744428.31	4706745.86	676.66
2377	744430.82	4706734.06	677.18
2378	744432.80	4706871.88	671.99
2379	744432.89	4706734.12	677.22
2380	744434.31	4706753.14	676.06
2381	744435.05	4706744.32	676.54
2382	744435.20	4706715.98	677.93
2383	744436.69	4706743.76	676.52
2384	744436.82	4706773.74	675.27
2385	744437.85	4706756.03	675.85
2386	744437.94	4706770.66	674.93
2387	744438.16	4706733.47	676.86
2388	744438.23	4706720.15	677.09
2389	744438.94	4706777.60	675.11
2390	744439.36	4706756.73	675.78
2391	744439.67	4706770.81	674.95
2392	744439.73	4706770.75	674.92
2393	744439.88	4706761.54	675.58
2394	744440.02	4706751.80	676.04
2395	744440.23	4706769.67	674.12
2396	744440.61	4706742.65	676.52
2397	744440.62	4706790.70	670.98
2398	744440.93	4706769.09	675.12
2399	744441.12	4706774.67	674.72
2400	744441.34	4706768.06	675.30
2401	744441.35	4706771.43	674.88
2402	744441.35	4706768.08	675.29
2403	744441.38	4706767.32	675.27
2404	744441.98	4706756.54	675.77
2405	744442.43	4706786.20	672.27
2406	744443.37	4706758.72	675.68
2407	744443.68	4706775.04	674.66
2408	744443.83	4706771.26	674.99
2409	744443.95	4706767.88	675.27
2410	744443.96	4706773.25	674.82
2411	744444.19	4706774.34	674.78

Punto	X	Y	Z
2412	744444.20	4706784.08	674.30
2413	744444.39	4706775.36	674.77
2414	744444.41	4706772.72	674.02
2415	744444.63	4706771.95	674.85
2416	744444.70	4706771.97	674.86
2417	744444.83	4706757.75	676.22
2418	744444.91	4706764.67	675.62
2419	744445.10	4706771.48	674.98
2420	744445.47	4706783.12	674.39
2421	744446.79	4706884.77	670.81
2422	744447.24	4706781.57	674.30
2423	744449.15	4706779.85	674.91
2424	744450.78	4706755.13	676.42
2425	744453.48	4706763.61	676.66
2426	744453.95	4706721.48	676.53
2427	744454.36	4706762.56	676.61
2428	744455.68	4706770.61	676.61
2429	744456.41	4706793.31	674.10
2430	744456.95	4706731.08	676.41
2431	744457.57	4706746.15	676.17
2432	744457.79	4706791.74	674.19
2433	744458.92	4706787.34	674.65
2434	744460.46	4706761.54	676.18
2435	744460.65	4706800.84	673.99
2436	744462.33	4706799.41	673.95
2437	744463.22	4706714.92	676.51
2438	744463.89	4706786.43	674.15
2439	744464.07	4706798.10	674.09
2440	744465.30	4706775.80	676.43
2441	744465.36	4706785.74	675.38
2442	744465.68	4706738.83	676.18
2443	744466.40	4706774.89	676.46
2444	744467.04	4706774.25	676.54
2445	744468.21	4706783.13	676.09
2446	744469.30	4706793.05	673.89
2447	744469.55	4706795.16	674.66
2448	744470.12	4706771.26	676.27
2449	744470.33	4706791.18	675.31
2450	744472.11	4706752.46	676.10



Punto	X	Y	Z
2451	744472.34	4706809.99	673.68
2452	744472.72	4706822.06	670.89
2453	744473.14	4706724.66	676.22
2454	744473.77	4706808.71	673.76
2455	744474.95	4706764.71	676.12
2456	744475.01	4706818.19	673.74
2457	744477.22	4706789.41	676.05
2458	744477.37	4706815.53	673.60
2459	744478.51	4706788.03	676.03
2460	744479.76	4706739.43	676.18
2461	744480.51	4706709.10	676.25
2462	744480.70	4706757.07	676.22
2463	744481.50	4706783.70	676.18
2464	744481.63	4706804.02	674.66
2465	744482.84	4706800.37	673.94
2466	744483.66	4706799.88	675.43
2467	744485.04	4706798.56	675.70
2468	744485.55	4706779.94	676.08
2469	744487.20	4706788.92	676.10
2470	744487.22	4706825.21	673.39
2471	744487.64	4706718.78	676.15
2472	744488.19	4706793.28	676.34
2473	744488.26	4706799.62	675.88
2474	744488.65	4706813.06	674.88
2475	744489.05	4706823.63	673.49
2476	744492.01	4706733.16	675.98
2477	744492.14	4706833.95	673.29
2478	744492.17	4706800.55	675.89
2479	744492.55	4706763.76	676.03
2480	744492.72	4706773.52	675.95
2481	744492.92	4706799.90	675.89
2482	744493.01	4706799.59	676.30
2483	744493.87	4706831.44	673.26
2484	744494.26	4706814.53	673.82
2485	744494.38	4706795.62	676.03
2486	744494.74	4706814.02	674.84
2487	744495.61	4706829.51	673.29
2488	744495.68	4706703.15	676.08

Punto	X	Y	Z
2489	744497.23	4706750.00	675.98
2490	744497.42	4706809.68	676.14
2491	744501.70	4706809.06	676.16
2492	744502.66	4706808.49	676.64
2493	744502.69	4706787.50	675.87
2494	744502.70	4706802.08	676.06
2495	744503.02	4706812.80	676.22
2496	744503.14	4706841.17	673.26
2497	744503.33	4706733.39	675.91
2498	744503.91	4706838.44	672.95
2499	744504.06	4706835.77	673.00
2500	744504.14	4706769.57	675.84
2501	744504.27	4706826.66	674.62
2502	744504.30	4706854.38	670.81
2503	744504.77	4706826.14	673.81
2504	744505.57	4706852.08	671.40
2505	744506.04	4706822.63	675.07
2506	744507.60	4706819.83	676.29
2507	744511.13	4706759.46	675.91
2508	744511.41	4706817.60	676.39
2509	744512.48	4706811.50	676.04
2510	744512.51	4706854.11	672.97
2511	744512.64	4706798.43	675.79
2512	744513.66	4706848.92	672.85
2513	744514.34	4706823.59	676.54
2514	744515.60	4706846.04	672.80
2515	744516.97	4706833.00	675.26
2516	744517.96	4706785.03	675.67
2517	744522.73	4706829.36	676.67
2518	744523.59	4706805.67	675.82
2519	744524.20	4706822.71	676.18
2520	744524.50	4706834.92	676.70
2521	744524.74	4706846.55	673.52
2522	744526.21	4706843.82	675.21
2523	744529.57	4706841.58	676.50
2524	744530.34	4706828.97	676.35

P.K. 9+350 Paso sobre el Barranco de Santiago

Punto	X	Y	Z
1000	739520.35	4708015.64	739.11
1001	739522.27	4708023.69	739.22
1002	739526.37	4708009.95	735.15
1003	739528.59	4708027.14	739.57
1004	739531.16	4708014.75	738.79
1005	739533.91	4707999.12	735.19
1006	739534.00	4708031.25	743.35
1007	739534.48	4707991.55	735.79
1008	739534.78	4708029.42	743.07
1009	739537.05	4708031.92	743.01
1010	739537.67	4708009.91	735.65
1011	739537.89	4707987.24	732.51
1012	739538.57	4707993.08	735.56
1013	739539.23	4708026.57	739.43
1014	739540.05	4708020.66	739.17
1015	739540.68	4707976.96	730.15
1016	739540.81	4707978.51	732.07
1017	739541.52	4707966.98	730.08
1018	739542.13	4708031.96	743.44
1019	739542.20	4708032.57	743.26
1020	739542.60	4708007.25	735.97
1021	739543.10	4707973.15	730.08
1022	739543.94	4708028.73	742.29
1023	739545.59	4708014.52	738.90
1024	739546.88	4708030.57	742.68
1025	739547.44	4708038.12	746.72
1026	739547.50	4708032.41	743.31
1027	739547.59	4708027.54	741.58
1028	739547.60	4707965.55	728.43
1029	739548.70	4707984.28	732.19
1030	739548.78	4707953.85	728.21
1031	739548.97	4708037.36	746.70
1032	739549.14	4708001.00	735.44
1033	739549.20	4708036.41	746.56
1034	739549.95	4707958.74	728.26
1035	739550.11	4708023.88	739.52
1036	739550.28	4708029.23	741.79

Punto	X	Y	Z
1037	739550.39	4708024.96	740.78
1038	739550.88	4708014.24	738.95
1039	739551.64	4707977.63	730.55
1040	739551.98	4707983.75	730.49
1041	739552.10	4707970.45	730.30
1042	739552.26	4708008.95	736.22
1043	739553.21	4707989.59	732.83
1044	739553.27	4708012.75	738.95
1045	739554.24	4707960.52	728.88
1046	739554.85	4707964.94	728.67
1047	739555.19	4707944.73	730.49
1048	739555.85	4708029.20	741.58
1049	739556.62	4708044.39	746.45
1050	739556.74	4708018.51	739.29
1051	739556.94	4707993.05	735.63
1052	739557.00	4708043.67	746.72
1053	739557.02	4708043.37	746.72
1054	739557.19	4708038.87	746.72
1055	739557.36	4708013.26	739.02
1056	739557.44	4708038.45	746.71
1057	739557.75	4707983.99	730.65
1058	739557.80	4708036.19	746.40
1059	739557.94	4707986.78	732.46
1060	739558.09	4708025.38	741.15
1061	739558.54	4708032.03	743.44
1062	739558.96	4707955.02	728.44
1063	739560.04	4707988.72	732.67
1064	739560.52	4708029.53	741.70
1065	739560.60	4707979.62	730.85
1066	739560.61	4707971.16	729.53
1067	739561.14	4708033.70	743.51
1068	739562.00	4707947.68	731.00
1069	739562.10	4708033.20	743.76
1070	739562.31	4708026.64	741.31
1071	739562.38	4708024.95	739.84
1072	739562.53	4708003.74	735.88
1073	739563.46	4707974.62	730.88
1074	739563.62	4707940.25	731.17
1075	739563.84	4708030.57	743.46

Punto	X	Y	Z
1076	739563.94	4708013.85	739.11
1077	739563.96	4707989.45	731.17
1078	739563.98	4707963.37	729.70
1079	739564.17	4707925.63	730.78
1080	739564.30	4707960.43	728.54
1081	739564.75	4707929.80	729.14
1082	739564.86	4707968.07	729.31
1083	739564.88	4707924.82	730.78
1084	739565.03	4708010.14	736.29
1085	739565.16	4707924.01	729.87
1086	739565.55	4707995.49	735.61
1087	739566.17	4708027.24	741.87
1088	739566.43	4707971.82	730.10
1089	739568.61	4707951.24	731.85
1090	739569.62	4708025.07	740.14
1091	739569.89	4707918.90	729.84
1092	739570.31	4708036.38	746.60
1093	739570.31	4708000.59	735.97
1094	739570.48	4707996.57	732.68
1095	739570.49	4707957.96	728.71
1096	739570.62	4707992.21	731.59
1097	739570.75	4708033.50	743.90
1098	739571.14	4707987.50	731.40
1099	739571.74	4707981.05	731.08
1100	739571.95	4708014.38	739.34
1101	739572.27	4708004.95	736.20
1102	739573.09	4707928.46	731.06
1103	739573.22	4708023.48	740.14
1104	739573.26	4708011.14	736.64
1105	739573.76	4708000.51	733.12
1106	739573.80	4708019.89	739.90
1107	739574.51	4707927.64	730.14
1108	739574.54	4708028.78	742.84
1109	739574.55	4707912.53	730.00
1110	739574.59	4707980.42	730.77
1111	739574.86	4707997.11	732.81
1112	739574.99	4707972.58	730.09
1113	739575.07	4708024.02	740.72

Punto	X	Y	Z
1114	739575.41	4708049.97	751.46
1115	739575.52	4707968.77	729.88
1116	739576.03	4707965.07	729.32
1117	739576.20	4708016.68	739.72
1118	739576.34	4708015.85	739.62
1119	739576.48	4707908.92	729.87
1120	739576.77	4707956.50	732.10
1121	739576.84	4708034.85	745.27
1122	739576.98	4707993.64	731.52
1123	739577.02	4707962.16	729.05
1124	739577.21	4707907.80	730.56
1125	739577.32	4708010.93	736.66
1126	739577.72	4708054.31	753.72
1127	739578.34	4708040.00	746.91
1128	739578.84	4708046.20	746.62
1129	739579.04	4707908.92	730.88
1130	739579.12	4708046.75	745.56
1131	739579.30	4708028.18	741.63
1132	739579.35	4707979.05	731.08
1133	739579.40	4708046.31	746.62
1134	739579.41	4708019.33	739.58
1135	739579.61	4708024.41	740.74
1136	739579.81	4708040.16	745.26
1137	739579.98	4707947.84	732.02
1138	739580.45	4707936.53	731.70
1139	739580.45	4708006.58	733.48
1140	739580.61	4708040.33	746.74
1141	739580.78	4707940.34	730.87
1142	739581.15	4707924.71	729.98
1143	739581.64	4707914.56	730.16
1144	739581.74	4708036.29	744.98
1145	739581.96	4708053.03	752.47
1146	739582.00	4707970.95	729.70
1147	739582.20	4708034.15	743.18
1148	739582.76	4707952.61	732.40
1149	739582.97	4707998.79	733.02
1150	739583.01	4708028.18	741.35
1151	739583.69	4707929.41	730.64

Punto	X	Y	Z
1152	739584.18	4708047.75	746.51
1153	739584.22	4707958.96	732.49
1154	739584.58	4708055.58	754.43
1155	739584.83	4708047.06	746.86
1156	739584.85	4708042.20	746.90
1157	739584.93	4708041.82	746.92
1158	739584.96	4708046.68	746.86
1159	739585.06	4707930.99	731.93
1160	739585.33	4708014.74	735.18
1161	739586.13	4708000.12	733.47
1162	739586.28	4708039.94	747.15
1163	739586.72	4708033.07	742.65
1164	739586.77	4708050.07	748.32
1165	739586.83	4707910.88	730.46
1166	739587.94	4708035.52	743.09
1167	739588.91	4707910.02	731.79
1168	739589.68	4707979.17	730.36
1169	739589.69	4708000.33	733.27
1170	739590.85	4708057.96	754.57
1171	739591.44	4707959.50	732.66
1172	739591.86	4708011.04	733.98
1173	739591.92	4708034.06	742.58
1174	739592.62	4707950.15	732.34
1175	739592.98	4707975.24	730.28
1176	739593.15	4708058.06	754.36
1177	739593.17	4707921.50	732.00
1178	739593.41	4708026.44	735.79
1179	739593.43	4707933.73	732.41
1180	739593.51	4708041.62	746.73
1181	739593.71	4707945.55	732.07
1182	739593.76	4707936.05	732.07
1183	739594.14	4708059.35	754.45
1184	739594.31	4708016.55	735.27
1185	739595.03	4708038.20	743.04
1186	739595.30	4708007.34	733.98
1187	739595.32	4708062.62	757.07
1188	739595.44	4707942.33	732.87
1189	739595.57	4707972.44	731.95
1190	739595.64	4707928.26	732.29

Punto	X	Y	Z
1191	739595.99	4708002.71	733.49
1192	739596.50	4708037.13	742.97
1193	739596.75	4707915.01	731.88
1194	739597.81	4707991.95	732.55
1195	739598.08	4707989.24	731.04
1196	739598.37	4707994.83	732.52
1197	739599.30	4708053.57	748.63
1198	739599.70	4707976.59	732.12
1199	739599.79	4708051.29	746.75
1200	739599.95	4708050.25	747.02
1201	739599.96	4708049.95	747.05
1202	739600.28	4707970.26	732.30
1203	739600.89	4708029.08	736.09
1204	739600.89	4708045.03	747.02
1205	739601.03	4708041.12	746.76
1206	739601.07	4708044.67	747.02
1207	739601.42	4707947.97	732.32
1208	739602.07	4707984.16	730.97
1209	739602.08	4707925.35	732.39
1210	739602.30	4707915.70	731.82
1211	739602.36	4707962.55	733.12
1212	739602.57	4708002.98	732.99
1213	739603.51	4707945.28	733.44
1214	739603.53	4708018.22	735.34
1215	739603.57	4707927.86	732.89
1216	739604.29	4707979.89	734.00
1217	739604.69	4707935.64	733.12
1218	739605.38	4708065.37	756.66
1219	739605.40	4707954.03	732.65
1220	739605.75	4708027.19	735.88
1221	739606.23	4708002.78	732.13
1222	739606.80	4707926.39	733.23
1223	739607.07	4708000.70	731.71
1224	739607.11	4708019.36	734.08
1225	739607.21	4707977.31	732.34
1226	739607.46	4707989.58	731.41
1227	739607.47	4708035.65	739.23
1228	739607.71	4708011.81	733.58
1229	739608.91	4708028.91	735.88

Punto	X	Y	Z
1230	739609.51	4707983.15	734.25
1231	739609.81	4708058.19	752.54
1232	739609.92	4708062.83	754.55
1233	739610.28	4708053.97	746.99
1234	739610.64	4708053.68	747.02
1235	739611.06	4708053.72	747.08
1236	739611.82	4708065.30	755.61
1237	739612.73	4708068.51	756.89
1238	739612.88	4707919.53	732.83
1239	739612.93	4708028.46	737.29
1240	739613.19	4708044.64	747.20
1241	739613.61	4708026.08	735.66
1242	739613.61	4708049.38	747.28
1243	739613.77	4708049.08	747.27
1244	739615.26	4708024.36	734.45
1245	739615.50	4708032.12	738.36
1246	739615.75	4707954.53	733.19
1247	739615.90	4708066.01	754.43
1248	739616.03	4707982.46	733.03
1249	739616.13	4707963.67	733.28
1250	739616.18	4708069.91	756.34
1251	739616.28	4708008.69	732.91
1252	739616.61	4708029.04	737.43
1253	739617.22	4708038.37	741.15
1254	739617.29	4707930.85	734.15
1255	739617.59	4707942.66	734.12
1256	739618.24	4707992.30	734.51
1257	739618.32	4708006.89	732.05
1258	739618.33	4708026.25	734.60
1259	739618.68	4708065.46	753.87
1260	739618.72	4708059.76	747.22
1261	739619.17	4708059.36	747.29
1262	739619.31	4708059.27	747.32
1263	739619.49	4707971.84	733.12
1264	739619.93	4708071.73	754.49
1265	739621.53	4708047.87	747.35
1266	739621.59	4708017.78	733.77
1267	739622.02	4708066.41	752.21

Punto	X	Y	Z
1268	739622.11	4708034.63	738.16
1269	739622.15	4708076.36	755.91
1270	739622.48	4707924.63	733.29
1271	739622.82	4707982.60	733.87
1272	739623.62	4708077.60	755.46
1273	739624.28	4708056.44	747.64
1274	739624.44	4707977.23	733.44
1275	739624.50	4708056.29	747.65
1276	739624.79	4708075.11	754.44
1277	739625.11	4708004.63	732.01
1278	739625.60	4708072.39	749.98
1279	739625.81	4707957.10	734.05
1280	739625.86	4707966.65	734.01
1281	739626.35	4708050.85	747.54
1282	739626.35	4707945.13	734.24
1283	739627.04	4708036.42	737.63
1284	739628.20	4707993.10	734.10
1285	739628.37	4708079.49	754.17
1286	739628.49	4708053.04	747.62
1287	739628.51	4708071.31	747.59
1288	739628.61	4708034.18	737.54
1289	739629.10	4708019.17	734.11
1290	739629.27	4708070.73	747.84
1291	739629.29	4708037.42	736.70
1292	739629.36	4708031.66	735.00
1293	739629.39	4708070.63	747.86
1294	739629.41	4708001.36	734.79
1295	739629.82	4708026.75	734.71
1296	739629.88	4708081.75	753.62
1297	739630.39	4707995.32	734.83
1298	739630.51	4707938.79	734.40
1299	739630.68	4707983.03	734.56
1300	739630.71	4708018.07	734.40
1301	739631.31	4708078.17	750.27
1302	739631.31	4708008.34	732.63
1303	739631.41	4708035.39	736.99
1304	739631.55	4707999.37	734.79
1305	739631.86	4708081.60	752.86



Punto	X	Y	Z
1306	739631.86	4708081.60	752.86
1307	739631.96	4708015.50	732.77
1308	739632.61	4708037.23	735.85
1309	739633.25	4708066.44	747.93
1310	739633.41	4708066.27	747.92
1311	739633.72	4707947.27	734.56
1312	739633.93	4708055.31	747.62
1313	739634.11	4707991.29	735.61
1314	739634.56	4708000.68	734.44
1315	739634.77	4707987.49	734.37
1316	739634.82	4707960.20	734.05
1317	739634.86	4707972.89	734.74
1318	739635.67	4708081.10	748.09
1319	739636.45	4708062.62	747.73
1320	739636.61	4708080.59	748.20
1321	739636.87	4708080.49	748.22
1322	739637.23	4708023.95	734.83
1323	739637.57	4707933.05	733.70
1324	739637.63	4708038.43	735.45
1325	739638.03	4707991.42	735.11
1326	739638.22	4708004.47	734.69
1327	739638.45	4708007.89	734.78
1328	739639.03	4708039.93	735.76
1329	739639.48	4708013.11	733.11
1330	739639.55	4708021.47	733.27
1331	739639.72	4707972.32	736.03
1332	739639.86	4708063.40	748.06
1333	739640.95	4707986.56	736.72
1334	739641.01	4708078.46	748.17
1335	739641.34	4708078.33	748.17
1336	739641.47	4707997.10	734.90
1337	739641.51	4707963.31	736.12
1338	739641.66	4707992.49	735.94
1339	739641.87	4708060.35	743.07
1340	739642.45	4708059.30	742.98
1341	739642.47	4708079.19	748.21
1342	739642.87	4708078.93	748.19
1343	739643.08	4708009.49	735.38
1344	739643.42	4708043.66	735.73

Punto	X	Y	Z
1345	739643.74	4708043.60	735.58
1346	739643.94	4708062.31	743.12
1347	739644.25	4708077.76	748.06
1348	739644.43	4708047.98	736.67
1349	739644.50	4708080.42	747.94
1350	739644.62	4707962.52	736.49
1351	739644.93	4708033.31	735.78
1352	739645.05	4707993.89	735.81
1353	739645.38	4707946.69	736.35
1354	739645.87	4708035.62	735.58
1355	739645.92	4708085.27	748.19
1356	739646.20	4707938.13	736.17
1357	739646.72	4707999.19	735.15
1358	739646.72	4707950.69	736.45
1359	739646.73	4708044.05	735.75
1360	739647.20	4708051.24	736.56
1361	739647.34	4708064.35	743.16
1362	739647.52	4708060.00	743.07
1363	739647.71	4708085.87	748.21
1364	739648.08	4708032.30	734.21
1365	739649.18	4707936.86	735.18
1366	739649.47	4707972.07	736.31
1367	739649.56	4708087.32	748.00
1368	739649.67	4708073.41	743.06
1369	739649.73	4708045.44	735.97
1370	739649.96	4708022.43	733.82
1371	739650.52	4708014.45	735.52
1372	739650.62	4707943.29	735.36
1373	739650.75	4708035.95	734.70
1374	739651.43	4708078.93	742.71
1375	739651.90	4707951.17	736.09
1376	739651.99	4708055.44	736.31
1377	739652.04	4708004.45	735.90
1378	739652.06	4708042.87	734.78
1379	739652.38	4708007.64	735.35
1380	739652.70	4707962.49	736.38
1381	739652.99	4708059.99	738.08
1382	739653.11	4707954.08	736.20
1383	739653.20	4708048.13	734.78

Punto	X	Y	Z
1384	739653.22	4708083.82	742.48
1385	739653.84	4708027.36	734.23
1386	739654.38	4708055.49	735.01
1387	739654.40	4708063.34	736.55
1388	739654.48	4707983.85	736.79
1389	739654.64	4708033.32	734.53
1390	739655.47	4708069.43	737.37
1391	739655.61	4708062.84	736.25
1392	739656.46	4708087.53	742.28
1393	739656.59	4707995.09	736.18
1394	739656.79	4708058.35	735.49
1395	739657.08	4708022.81	735.71
1396	739657.13	4707955.30	736.10
1397	739657.40	4708020.15	735.83
1398	739657.53	4708017.75	736.73
1399	739657.72	4707959.30	737.16
1400	739657.86	4707991.51	736.33
1401	739657.88	4708041.92	734.78
1402	739658.30	4708086.52	742.26
1403	739658.34	4707944.19	739.01
1404	739659.08	4707998.18	736.23
1405	739659.46	4707953.94	736.14
1406	739659.72	4708083.30	740.66
1407	739659.83	4708079.69	739.54
1408	739660.58	4708079.14	738.28
1409	739661.30	4708063.94	736.30
1410	739661.68	4708074.28	736.95
1411	739662.28	4708058.41	735.44
1412	739662.47	4707992.43	736.44
1413	739662.65	4708036.95	737.17
1414	739663.48	4708013.15	736.58
1415	739663.69	4708053.81	736.58
1416	739663.76	4707949.46	737.77
1417	739664.08	4707953.10	737.73
1418	739664.20	4707969.01	738.04
1419	739664.21	4707972.32	736.75
1420	739664.69	4708030.35	736.85
1421	739664.84	4708061.32	737.34

Punto	X	Y	Z
1422	739665.12	4707967.73	736.69
1423	739665.51	4707960.41	736.20
1424	739666.08	4708004.08	736.51
1425	739667.35	4707972.72	738.56
1426	739667.55	4708037.98	737.51
1427	739667.67	4707987.40	737.28
1428	739667.89	4708066.44	737.25
1429	739667.94	4707965.21	737.95
1430	739668.10	4708048.71	737.26
1431	739668.29	4708044.44	737.33
1432	739668.43	4708033.84	737.38
1433	739668.55	4708082.44	737.64
1434	739668.57	4707969.57	736.74
1435	739668.88	4708018.69	736.99
1436	739669.01	4707972.43	737.48
1437	739669.69	4707954.77	737.55
1438	739670.55	4707995.95	737.94
1439	739670.92	4708057.04	736.85
1440	739671.12	4708071.88	737.62
1441	739671.18	4708075.11	737.31
1442	739671.34	4707959.21	736.37
1443	739671.39	4708064.16	736.98
1444	739671.70	4707957.61	737.00
1445	739671.76	4708033.92	737.92
1446	739672.47	4707981.01	737.84
1447	739673.27	4708054.37	738.24
1448	739673.32	4707956.70	736.38
1449	739674.44	4707953.24	736.27
1450	739674.46	4708007.72	737.92
1451	739674.70	4707968.06	736.56
1452	739674.84	4708068.81	737.40
1453	739675.86	4707958.65	737.41
1454	739675.89	4708025.65	738.34
1455	739675.96	4708016.20	738.25
1456	739676.51	4707966.17	736.51
1457	739676.85	4708070.52	738.75
1458	739677.20	4707968.87	737.48
1459	739677.37	4708031.40	738.33

Punto	X	Y	Z
1460	739678.79	4708047.86	738.31
1461	739680.92	4707999.25	738.03
1462	739680.94	4707969.06	737.80
1463	739681.11	4708033.27	738.43
1464	739681.63	4707985.39	737.79
1465	739682.05	4708038.39	738.31
1466	739682.06	4707992.23	737.91
1467	739682.19	4708008.25	738.07
1468	739682.36	4707998.23	738.16
1469	739685.55	4707962.90	737.01
1470	739685.88	4708030.93	738.47
1471	739685.90	4707974.56	737.70
1472	739686.82	4708027.22	738.30
1473	739687.70	4707964.56	737.52
1474	739688.76	4708020.51	738.39
1475	739689.06	4707996.23	738.04
1476	739689.28	4707967.83	737.43
1477	739691.00	4707967.85	737.47
1478	739691.99	4708017.72	738.30
1479	739692.37	4707986.49	737.88
1480	739693.27	4708017.14	738.71
1481	739694.79	4708003.99	738.36
1482	739695.14	4708019.30	738.93
1483	739698.18	4707985.30	737.89
1484	739699.14	4707960.82	737.00
1485	739700.17	4707983.58	738.06
1486	739701.21	4708014.66	738.85
1487	739703.50	4707996.35	738.34
1488	739704.80	4707994.75	738.79
1489	739707.10	4707973.18	737.69
1490	739712.36	4707978.89	738.19

P.K. 12+410 Viaducto

Punto	X	Y	Z
1	736884.00	4709563.43	751.61

Punto	X	Y	Z
2	736887.52	4709558.24	751.43
3	736890.46	4709561.86	751.59
4	736895.46	4709546.49	751.20
5	736895.88	4709546.61	751.38
6	736896.87	4709567.67	754.43
7	736897.04	4709559.65	754.60
8	736898.01	4709558.58	754.46
9	736899.69	4709553.11	754.49
10	736899.83	4709569.41	754.55
11	736900.12	4709558.88	754.89
12	736900.52	4709560.90	754.80
13	736900.58	4709547.57	754.05
14	736900.68	4709547.60	754.06
15	736900.84	4709558.91	755.13
16	736900.92	4709543.60	754.01
17	736901.06	4709558.46	755.32
18	736901.81	4709553.60	754.66
19	736902.87	4709560.09	755.44
20	736903.06	4709547.87	754.22
21	736904.96	4709544.76	754.10
22	736905.56	4709554.06	756.97
23	736905.57	4709560.91	758.48
24	736905.61	4709562.10	758.65
25	736906.68	4709530.90	751.12
26	736906.99	4709530.78	751.19
27	736907.02	4709556.51	756.84
28	736907.50	4709558.10	758.36
29	736907.62	4709531.21	753.90
30	736907.73	4709570.97	759.01
31	736908.45	4709535.63	754.36
32	736908.66	4709578.44	759.58
33	736908.99	4709550.88	758.05
34	736909.08	4709581.86	759.77
35	736910.24	4709572.67	759.58
36	736911.03	4709536.36	754.20
37	736911.46	4709574.64	759.67
38	736912.18	4709555.59	758.22
39	736912.30	4709543.71	757.76
40	736912.52	4709572.16	759.22

Punto	X	Y	Z
41	736912.60	4709555.08	758.12
42	736912.81	4709522.55	751.86
43	736912.88	4709555.20	758.12
44	736912.92	4709522.91	754.17
45	736912.97	4709578.00	759.85
46	736913.79	4709543.02	757.81
47	736914.70	4709540.72	757.81
48	736915.27	4709585.45	759.47
49	736915.91	4709572.84	759.53
50	736916.14	4709572.59	759.65
51	736916.16	4709585.76	759.47
52	736916.72	4709530.56	754.47
53	736916.80	4709573.25	759.76
54	736916.81	4709538.54	757.81
55	736916.84	4709586.33	758.92
56	736917.44	4709567.85	759.17
57	736917.99	4709571.72	759.81
58	736920.21	4709591.05	762.33
59	736920.86	4709535.37	757.81
60	736920.87	4709577.68	759.43
61	736921.43	4709513.54	752.82
62	736921.52	4709576.81	759.38
63	736921.87	4709514.46	754.16
64	736922.07	4709577.15	759.35
65	736922.07	4709584.55	762.28
66	736922.43	4709577.61	759.16
67	736922.46	4709528.99	755.10
68	736922.58	4709587.36	762.33
69	736922.95	4709565.90	759.83
70	736923.29	4709526.98	754.59
71	736923.87	4709563.88	759.66
72	736923.91	4709563.93	759.76
73	736924.51	4709564.20	759.77
74	736925.05	4709559.98	759.25
75	736926.06	4709533.91	757.95
76	736926.08	4709522.03	754.73
77	736926.39	4709570.71	759.58
78	736926.82	4709507.38	752.81

Punto	X	Y	Z
79	736926.93	4709507.64	753.99
80	736927.04	4709528.32	755.19
81	736927.24	4709588.63	762.87
82	736927.53	4709576.45	762.38
83	736927.58	4709528.66	756.62
84	736928.37	4709568.35	759.52
85	736928.84	4709568.71	759.49
86	736929.08	4709568.85	759.35
87	736929.14	4709559.10	759.90
88	736929.74	4709596.11	763.63
89	736929.94	4709599.88	766.28
90	736930.06	4709557.25	759.76
91	736930.41	4709557.34	759.80
92	736930.43	4709574.92	762.95
93	736930.67	4709557.47	759.83
94	736930.98	4709554.48	759.77
95	736931.29	4709599.58	766.31
96	736931.70	4709501.46	752.87
97	736931.74	4709550.85	759.15
98	736931.87	4709501.50	753.71
99	736932.17	4709555.85	759.98
100	736932.18	4709564.08	759.73
101	736932.18	4709564.06	759.74
102	736932.33	4709552.72	759.79
103	736932.40	4709596.99	766.07
104	736932.89	4709577.89	763.53
105	736933.00	4709533.26	757.67
106	736933.50	4709593.80	765.95
107	736934.17	4709593.97	765.91
108	736934.41	4709602.59	766.45
109	736934.82	4709602.45	766.44
110	736934.95	4709602.55	766.45
111	736935.32	4709591.34	765.73
112	736935.62	4709486.97	750.69
113	736935.77	4709527.70	756.81
114	736936.00	4709587.03	764.49
115	736936.02	4709561.06	759.52
116	736936.39	4709599.98	766.76

Punto	X	Y	Z
117	736936.70	4709587.45	765.34
118	736936.80	4709533.56	758.60
119	736936.89	4709558.85	759.99
120	736937.18	4709529.20	756.96
121	736937.23	4709587.87	765.55
122	736937.39	4709587.92	765.46
123	736937.57	4709601.26	767.76
124	736937.98	4709547.31	759.89
125	736938.24	4709595.63	765.80
126	736938.44	4709526.81	755.38
127	736938.45	4709525.37	754.97
128	736939.03	4709548.71	760.26
129	736939.05	4709527.11	756.10
130	736939.20	4709562.63	762.81
131	736939.52	4709529.00	756.92
132	736939.55	4709566.34	763.44
133	736939.56	4709493.38	752.53
134	736939.60	4709493.51	753.63
135	736939.94	4709547.76	760.17
136	736940.24	4709545.15	760.32
137	736940.56	4709547.13	760.21
138	736940.76	4709590.04	765.48
139	736940.86	4709545.80	760.23
140	736940.92	4709575.32	763.95
141	736941.02	4709590.18	765.47
142	736941.18	4709590.22	765.41
143	736941.25	4709590.26	766.38
144	736942.14	4709538.43	759.25
145	736942.24	4709592.39	767.43
146	736942.29	4709605.92	769.94
147	736942.39	4709575.69	764.74
148	736942.52	4709575.71	764.65
149	736942.84	4709597.97	769.41
150	736942.89	4709586.54	765.98
151	736943.16	4709510.28	754.50
152	736943.34	4709551.84	760.29
153	736943.71	4709551.38	760.18
154	736943.88	4709525.21	756.63
155	736943.91	4709551.19	760.18

Punto	X	Y	Z
156	736943.94	4709554.01	761.95
157	736944.46	4709607.87	770.17
158	736944.55	4709550.50	760.18
159	736944.79	4709476.75	750.39
160	736944.85	4709550.30	760.21
161	736944.92	4709542.48	760.44
162	736945.01	4709601.31	769.98
163	736945.22	4709601.59	770.01
164	736945.29	4709599.31	770.05
165	736945.32	4709541.40	760.40
166	736945.44	4709551.17	759.98
167	736945.51	4709523.16	755.12
168	736945.54	4709537.14	760.41
169	736945.57	4709593.42	769.43
170	736946.08	4709577.38	764.70
171	736946.18	4709577.46	764.78
172	736946.38	4709590.46	769.51
173	736946.44	4709577.54	764.59
174	736946.59	4709577.59	764.58
175	736946.67	4709577.72	765.42
176	736947.02	4709562.90	763.47
177	736947.30	4709581.38	767.58
178	736947.51	4709539.07	760.49
179	736947.55	4709563.05	763.82
180	736947.56	4709485.05	752.40
181	736947.64	4709563.08	763.69
182	736947.80	4709501.30	754.36
183	736947.85	4709539.21	760.50
184	736948.06	4709531.58	760.34
185	736948.22	4709603.79	770.22
186	736948.35	4709485.55	753.96
187	736948.59	4709534.22	760.41
188	736948.67	4709545.97	760.55
189	736949.28	4709610.45	773.17
190	736949.54	4709552.66	762.90
191	736949.69	4709518.92	755.09
192	736949.87	4709583.39	769.39
193	736950.24	4709569.11	764.93
194	736950.50	4709529.67	760.59



Punto	X	Y	Z
195	736950.51	4709580.59	769.55
196	736950.93	4709553.63	763.02
197	736950.96	4709571.27	767.27
198	736951.09	4709553.62	762.92
199	736951.31	4709564.70	763.85
200	736951.37	4709564.75	763.89
201	736951.40	4709535.62	760.77
202	736951.42	4709520.02	756.25
203	736951.65	4709564.72	763.70
204	736951.81	4709564.71	763.69
205	736951.90	4709564.87	764.54
206	736952.30	4709546.90	762.71
207	736952.51	4709542.84	760.66
208	736952.80	4709567.00	767.35
209	736952.83	4709534.15	760.77
210	736952.93	4709543.04	760.39
211	736953.11	4709595.12	769.94
212	736953.91	4709533.12	760.83
213	736954.65	4709591.62	769.93
214	736954.73	4709490.69	754.36
215	736954.75	4709572.86	769.39
216	736954.83	4709554.81	762.85
217	736954.86	4709539.39	760.81
218	736955.13	4709554.94	762.76
219	736955.29	4709555.01	762.81
220	736955.46	4709571.35	769.37
221	736955.47	4709554.88	763.52
222	736955.60	4709600.32	773.27
223	736955.71	4709554.63	762.95
224	736955.82	4709523.95	761.15
225	736956.02	4709463.90	750.02
226	736956.19	4709566.95	769.21
227	736956.33	4709528.85	761.02
228	736956.44	4709557.79	767.93
229	736956.56	4709476.28	752.09
230	736956.60	4709537.63	760.85
231	736956.77	4709476.58	753.57
232	736957.05	4709568.37	769.75

Punto	X	Y	Z
233	736957.08	4709537.42	760.92
234	736957.12	4709538.09	760.81
235	736957.31	4709536.72	760.95
236	736957.38	4709618.63	774.83
237	736957.54	4709529.19	760.99
238	736957.56	4709529.08	761.05
239	736957.57	4709555.19	766.90
240	736957.71	4709537.92	761.33
241	736957.75	4709582.85	769.96
242	736957.98	4709558.88	768.90
243	736958.06	4709537.44	761.07
244	736958.42	4709566.52	770.07
245	736958.43	4709570.78	769.67
246	736958.47	4709609.55	773.65
247	736959.06	4709563.47	769.81
248	736959.11	4709509.22	755.16
249	736959.25	4709560.54	769.59
250	736959.30	4709510.02	756.06
251	736959.76	4709560.36	769.62
252	736960.49	4709574.50	770.00
253	736960.49	4709422.54	758.45
254	736960.68	4709589.01	773.31
255	736960.95	4709615.50	774.69
256	736961.02	4709532.79	761.17
257	736961.08	4709544.33	766.90
258	736961.39	4709532.40	761.10
259	736962.15	4709564.93	770.85
260	736962.34	4709524.27	761.03
261	736962.49	4709519.25	761.36
262	736963.05	4709418.95	758.40
263	736963.05	4709549.20	767.89
264	736963.08	4709418.96	758.38
265	736963.30	4709572.78	772.47
266	736963.72	4709582.13	773.27
267	736963.80	4709601.05	773.58
268	736963.94	4709471.03	752.19
269	736964.00	4709471.62	753.86
270	736964.24	4709534.37	761.19

Punto	X	Y	Z
271	736964.27	4709534.40	761.20
272	736964.34	4709575.67	772.72
273	736964.48	4709534.58	761.09
274	736964.94	4709456.83	749.88
275	736965.52	4709618.36	776.40
276	736965.57	4709527.64	761.27
277	736965.67	4709612.17	773.89
278	736966.10	4709540.22	769.22
279	736966.29	4709572.05	772.82
280	736966.90	4709582.73	773.48
281	736967.13	4709576.46	773.22
282	736967.19	4709593.99	773.74
283	736967.62	4709479.62	754.59
284	736967.66	4709496.45	755.16
285	736967.78	4709496.48	755.10
286	736967.87	4709528.15	761.26
287	736968.15	4709496.27	756.02
288	736968.20	4709610.01	773.98
289	736968.99	4709550.87	775.50
290	736969.02	4709524.10	761.39
291	736969.67	4709523.85	761.42
292	736969.82	4709524.15	761.39
293	736969.94	4709523.96	761.08
294	736970.12	4709614.99	775.17
295	736971.91	4709463.96	752.74
296	736972.01	4709433.17	759.61
297	736972.21	4709538.83	771.65
298	736972.44	4709551.84	779.92
299	736972.74	4709466.13	754.05
300	736973.46	4709488.67	756.73
301	736973.83	4709495.10	757.11
302	736973.83	4709588.07	777.73
303	736974.17	4709503.36	762.05
304	736974.56	4709430.46	759.79
305	736975.02	4709436.44	760.19
306	736975.21	4709527.35	773.83
307	736975.62	4709554.16	782.50
308	736975.93	4709438.35	760.35
309	736976.43	4709580.94	780.20

Punto	X	Y	Z
310	736976.71	4709433.76	759.82
311	736976.77	4709533.71	775.00
312	736976.89	4709605.93	780.15
313	736978.32	4709524.76	774.21
314	736978.91	4709446.72	749.88
315	736979.05	4709459.04	752.67
316	736979.34	4709570.10	782.94
317	736979.55	4709504.06	762.02
318	736979.77	4709504.22	761.95
319	736980.38	4709476.67	755.11
320	736980.40	4709530.14	776.21
321	736980.46	4709500.58	761.85
322	736980.48	4709504.72	761.96
323	736980.80	4709476.70	756.00
324	736980.82	4709460.45	755.14
325	736981.36	4709501.30	762.19
326	736981.51	4709480.76	758.59
327	736982.15	4709466.68	755.37
328	736982.31	4709454.20	751.03
329	736982.37	4709466.65	755.48
330	736982.69	4709522.74	774.49
331	736983.02	4709469.14	755.30
332	736983.36	4709469.33	756.11
333	736983.79	4709519.26	773.07
334	736984.03	4709459.26	755.37
335	736984.59	4709483.80	758.82
336	736985.13	4709594.82	782.67
337	736985.20	4709542.82	788.86
338	736985.65	4709447.94	760.83
339	736985.72	4709563.08	788.41
340	736985.72	4709556.74	790.00
341	736985.72	4709448.02	760.83
342	736986.50	4709447.96	761.00
343	736986.55	4709447.89	760.90
344	736986.91	4709496.43	762.33
345	736987.08	4709496.49	762.22
346	736987.51	4709577.15	787.36
347	736987.58	4709497.07	762.25
348	736987.89	4709444.84	760.77

Punto	X	Y	Z
349	736987.93	4709504.52	762.21
350	736987.96	4709444.75	760.86
351	736988.12	4709546.70	790.17
352	736988.13	4709504.75	762.22
353	736988.14	4709513.28	773.54
354	736988.42	4709444.50	760.84
355	736988.49	4709505.64	761.86
356	736988.62	4709444.71	760.82
357	736988.63	4709444.70	760.84
358	736990.04	4709485.67	761.61
359	736990.33	4709469.64	757.74
360	736990.62	4709469.63	760.28
361	736991.91	4709448.86	761.18
362	736992.00	4709448.84	761.25
363	736992.00	4709587.47	787.66
364	736992.39	4709448.45	761.19
365	736992.51	4709467.24	758.02
366	736992.61	4709467.29	760.27
367	736993.06	4709455.38	761.61
368	736993.26	4709488.89	762.41
369	736993.29	4709506.80	771.73
370	736993.47	4709454.98	761.60
371	736993.48	4709454.95	761.56
372	736994.11	4709556.93	794.18
373	736994.28	4709562.23	793.63
374	736994.43	4709488.68	762.62
375	736994.46	4709489.01	762.45
376	736995.16	4709489.07	762.55
377	736996.14	4709533.66	790.49
378	736996.27	4709463.15	759.67
379	736996.34	4709463.24	760.27
380	736996.52	4709579.00	792.40
381	736997.11	4709513.93	779.11
382	736997.35	4709459.52	762.01
383	736997.36	4709446.62	752.55
384	736997.64	4709453.26	759.89
385	736997.68	4709541.65	791.88
386	736997.69	4709459.24	761.97

Punto	X	Y	Z
387	736997.69	4709463.67	760.12
388	736997.70	4709459.23	761.97
389	736997.72	4709459.30	761.96
390	736997.81	4709494.31	762.64
391	736997.93	4709516.83	780.94
392	736998.18	4709494.50	762.64
393	736998.53	4709460.44	762.05
394	736998.53	4709495.16	762.33
395	736999.06	4709456.09	761.80
396	736999.07	4709462.18	760.16
397	736999.08	4709455.97	761.91
398	736999.19	4709483.66	762.94
399	736999.37	4709483.79	762.76
400	736999.57	4709455.74	761.85
401	736999.74	4709484.18	762.84
402	736999.90	4709503.02	773.23
403	737000.32	4709519.73	783.88
404	737000.47	4709464.83	760.27
405	737001.21	4709545.93	795.43
406	737001.42	4709456.36	759.92
407	737001.58	4709467.29	760.35
408	737002.02	4709537.53	791.74
409	737002.09	4709449.88	759.84
410	737002.31	4709464.62	762.40
411	737002.66	4709464.39	762.39
412	737003.01	4709430.80	749.81
413	737003.05	4709465.89	760.37
414	737003.11	4709443.80	755.89
415	737003.63	4709465.52	762.46
416	737003.97	4709457.08	759.96
417	737004.28	4709571.41	799.38
418	737004.38	4709503.23	776.23
419	737004.52	4709469.41	762.40
420	737004.82	4709469.87	762.46
421	737004.83	4709477.02	762.98
422	737004.85	4709477.06	762.81
423	737005.04	4709462.08	762.38
424	737005.04	4709462.03	762.44

Punto	X	Y	Z
425	737005.08	4709440.12	752.74
426	737005.25	4709456.46	759.97
427	737005.40	4709468.01	762.19
428	737005.41	4709461.71	762.31
429	737005.51	4709456.76	759.98
430	737005.60	4709459.60	761.71
431	737005.75	4709473.28	762.85
432	737005.85	4709468.01	762.69
433	737005.87	4709473.28	762.80
434	737005.93	4709467.83	762.65
435	737006.01	4709477.27	762.90
436	737006.13	4709470.71	762.84
437	737006.31	4709470.78	762.76
438	737006.36	4709457.93	760.76
439	737006.60	4709455.93	759.97
440	737006.72	4709460.45	761.70
441	737006.74	4709524.55	790.99
442	737007.72	4709492.36	768.38
443	737007.80	4709498.52	776.04
444	737007.96	4709457.72	760.76
445	737008.04	4709528.59	791.83
446	737008.08	4709457.80	761.74
447	737008.68	4709434.78	752.69
448	737008.87	4709438.88	755.70
449	737008.89	4709522.97	791.10
450	737009.30	4709482.39	763.06
451	737009.39	4709464.70	762.68
452	737009.46	4709465.34	762.82
453	737009.47	4709482.68	763.02
454	737009.57	4709466.18	762.79
455	737009.57	4709540.87	796.08
456	737009.59	4709466.11	762.92
457	737009.70	4709465.08	763.00
458	737009.94	4709483.15	762.78
459	737010.19	4709501.97	778.31
460	737010.36	4709560.01	804.75
461	737010.55	4709521.50	791.01
462	737011.03	4709464.00	763.62
463	737011.60	4709535.96	794.08

Punto	X	Y	Z
464	737012.10	4709440.03	755.74
465	737012.24	4709466.50	762.97
466	737012.25	4709466.42	763.05
467	737012.74	4709441.72	755.91
468	737013.21	4709552.80	805.06
469	737013.36	4709462.78	763.65
470	737014.21	4709439.18	755.75
471	737014.52	4709498.45	778.00
472	737014.68	4709460.16	761.74
473	737014.78	4709496.80	777.19
474	737014.86	4709465.61	763.14
475	737014.88	4709465.53	763.24
476	737015.13	4709444.91	756.42
477	737015.90	4709499.82	779.71
478	737016.33	4709460.04	763.68
479	737016.53	4709466.00	763.24
480	737017.50	4709507.25	785.17
481	737017.63	4709442.26	756.08
482	737017.82	4709463.83	763.38
483	737017.94	4709514.86	791.33
484	737017.98	4709464.04	763.33
485	737018.03	4709497.06	779.90
486	737018.08	4709480.59	769.59
487	737018.59	4709449.95	761.72
488	737018.71	4709491.86	775.08
489	737018.88	4709501.75	782.61
490	737019.03	4709472.16	763.37
491	737019.08	4709528.03	794.10
492	737019.48	4709472.60	763.31
493	737019.77	4709473.21	763.26
494	737019.89	4709499.45	780.83
495	737019.98	4709461.99	763.50
496	737020.04	4709462.05	763.37
497	737020.46	4709462.34	763.44
498	737020.92	4709541.73	802.21
499	737020.98	4709456.28	762.63
500	737022.06	4709482.32	772.36
501	737022.09	4709455.42	762.46
502	737022.38	4709455.87	763.83

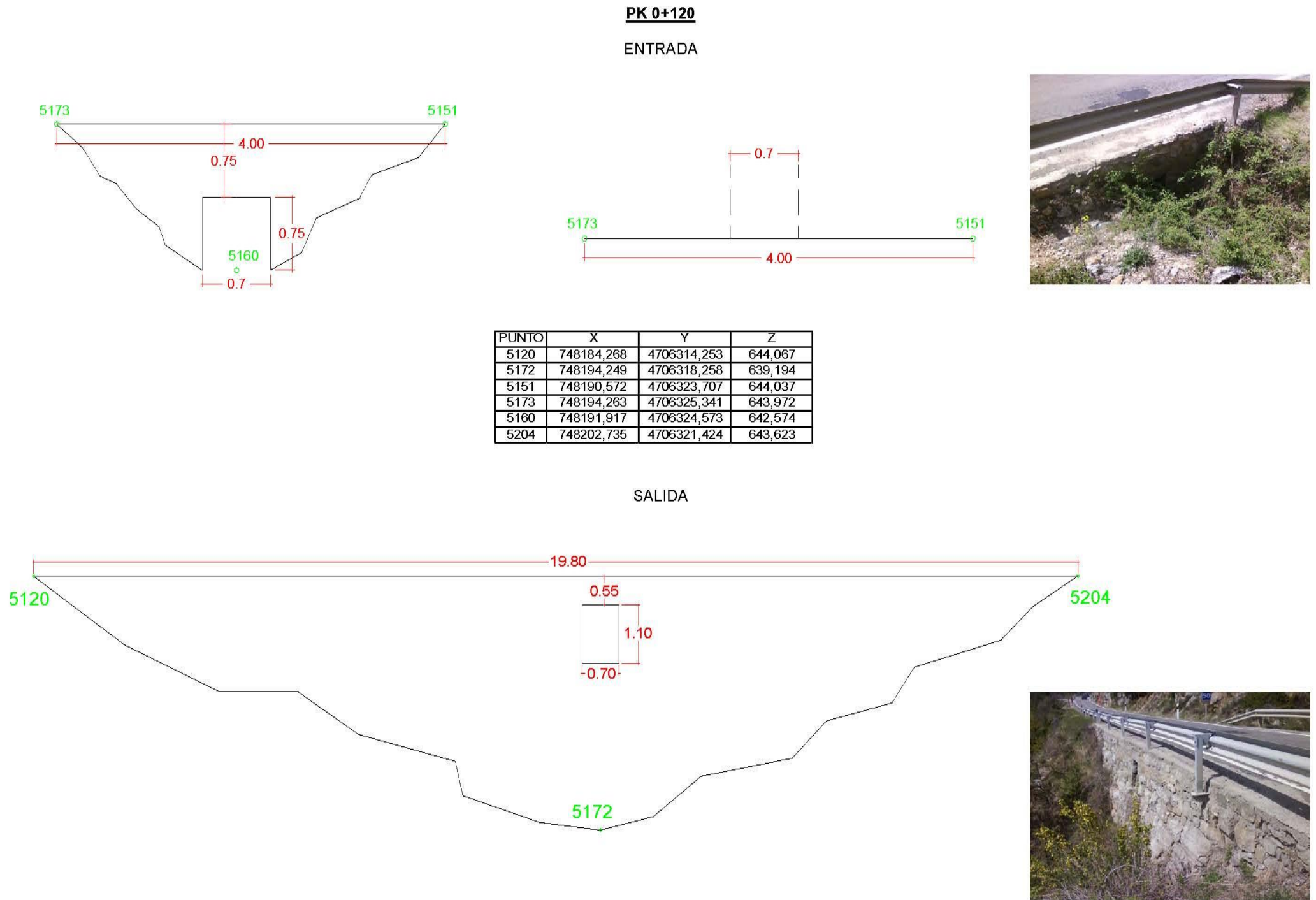
Punto	X	Y	Z
503	737023.47	4709493.92	780.70
504	737023.97	4709499.20	783.18
505	737024.03	4709497.37	781.00
506	737024.08	4709514.93	792.16
507	737024.27	4709450.11	761.24
508	737024.31	4709528.49	795.83
509	737024.36	4709490.20	777.14
510	737025.15	4709452.38	763.91
511	737025.18	4709453.05	763.85
512	737025.31	4709452.37	763.86
513	737025.85	4709455.96	763.80
514	737026.20	4709456.26	763.78
515	737026.84	4709454.88	763.88
516	737026.85	4709454.89	763.86
517	737026.86	4709454.90	763.86
518	737027.10	4709530.42	798.11
519	737027.43	4709467.36	767.94
520	737028.16	4709513.54	793.91
521	737028.29	4709449.28	763.91
522	737028.39	4709462.57	763.66
523	737028.51	4709491.54	782.32
524	737028.51	4709495.70	783.47
525	737028.65	4709465.01	768.76
526	737028.70	4709463.16	763.58
527	737028.86	4709463.43	763.55
528	737029.73	4709497.04	785.69
529	737029.80	4709448.81	764.09
530	737030.31	4709465.88	769.33
531	737030.35	4709488.38	780.17
532	737030.43	4709509.61	791.25
533	737031.11	4709506.54	790.62
534	737032.07	4709533.31	802.36
535	737032.51	4709448.79	764.19
536	737032.70	4709449.79	764.06
537	737033.81	4709462.51	768.72
538	737036.23	4709481.67	778.85
539	737036.64	4709454.01	764.22
540	737036.82	4709521.36	798.53

Punto	X	Y	Z
541	737037.10	4709454.41	764.10
542	737037.36	4709499.01	790.36
542	737037.36	4709499.01	790.36
543	737038.22	4709473.09	775.58
544	737038.38	4709507.24	793.85
545	737038.67	4709504.63	791.40
546	737039.05	4709459.90	769.24
547	737040.40	4709486.49	785.59
548	737040.86	4709492.63	790.31
549	737041.03	4709515.64	799.28
550	737042.56	4709523.95	801.71
551	737042.62	4709496.82	791.73
552	737042.82	4709508.01	796.46
553	737045.79	4709495.53	792.73
554	737045.87	4709481.28	783.45
555	737046.11	4709488.33	790.02
556	737046.75	4709497.43	793.29
557	737046.78	4709522.10	802.68
558	737046.97	4709461.94	774.31
559	737047.83	4709495.53	793.35
560	737048.36	4709502.77	798.30
561	737048.98	4709513.55	801.38
562	737049.94	4709490.91	791.39
563	737050.44	4709487.78	790.74
564	737050.51	4709492.36	791.72
565	737051.33	4709518.37	803.92
566	737051.87	4709468.39	776.64
567	737054.51	4709499.23	799.57
568	737055.87	4709482.22	789.36
569	737058.11	4709488.97	792.86
570	737058.99	4709490.65	795.87
571	737059.89	4709493.17	796.28
572	737060.61	4709472.30	786.85
573	737062.56	4709472.60	786.23
574	737066.27	4709490.10	797.34
575	737067.36	4709487.28	795.37

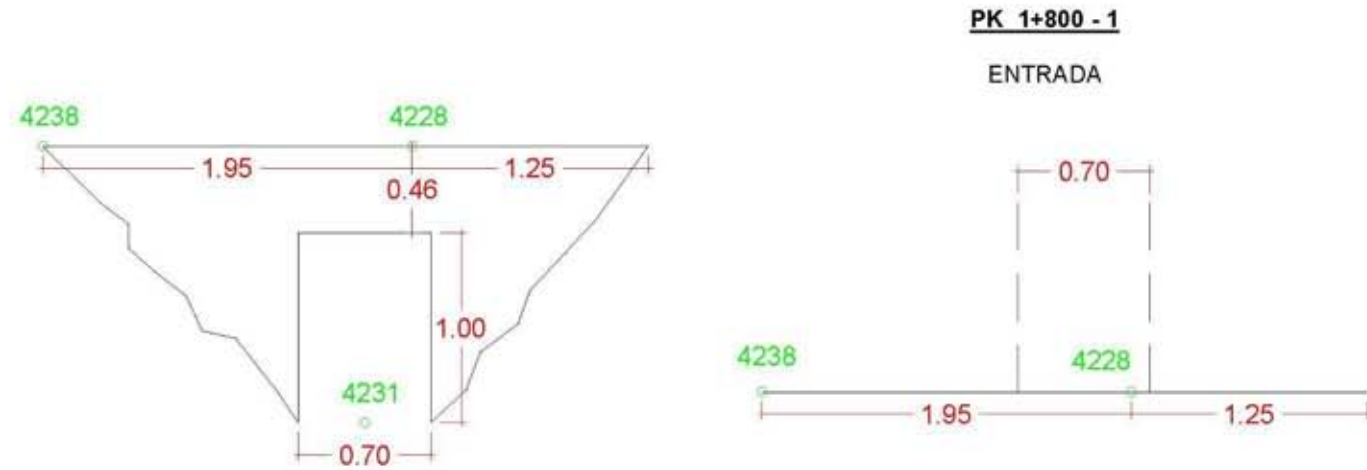


5.5.3. Fichas de obras de drenaje existentes en taquimétricos

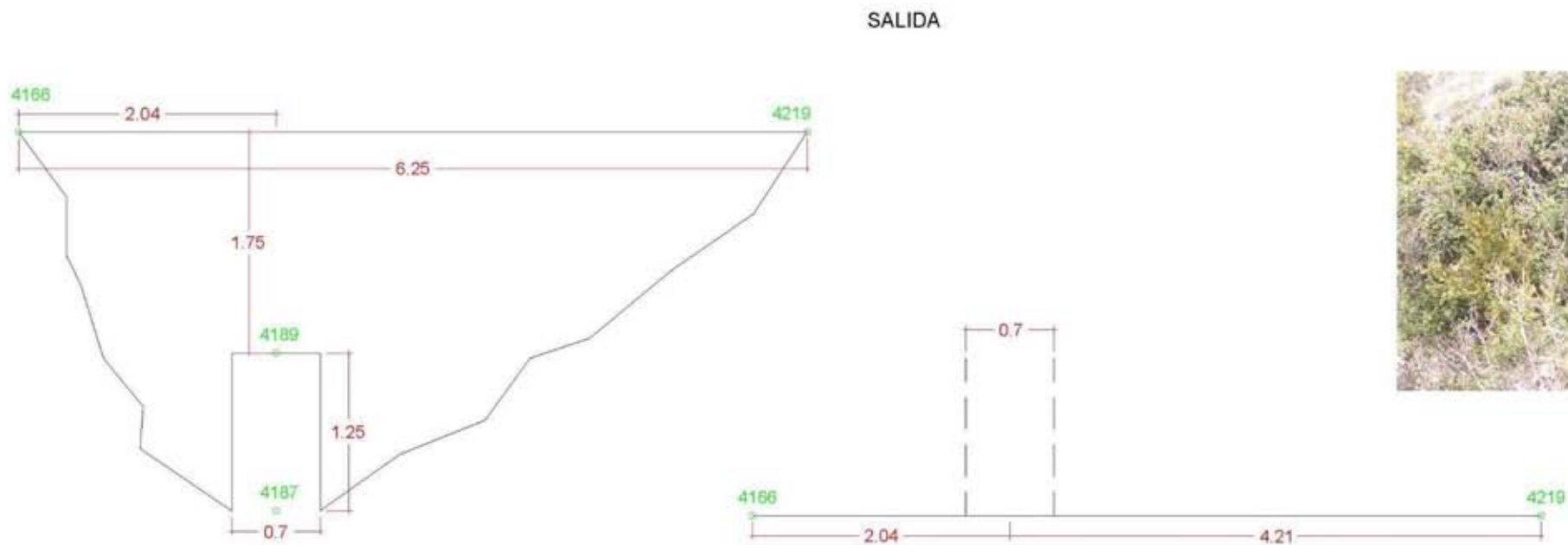
P.K. 0+120 Boquilla de entrada al Túnel de Jánovas



P.K. 1+800 Boquilla de salida al Túnel de Jánovas

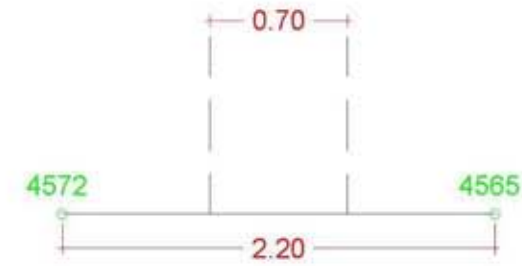
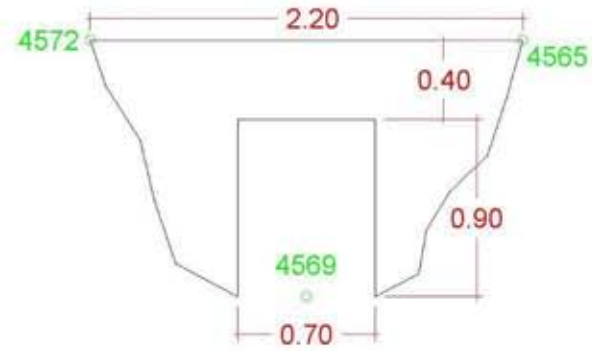


PUNTO	X	Y	Z
4166	746559,860	4706748,889	681,184
4219	746564,772	4706745,019	680,889
4228	746565,469	4706752,429	681,093
4238	746566,793	4706751,023	681,113
4231	746565,744	4706752,368	679,757
4189	746561,394	4706747,540	678,314
4187	746561,315	4706747,471	677,069



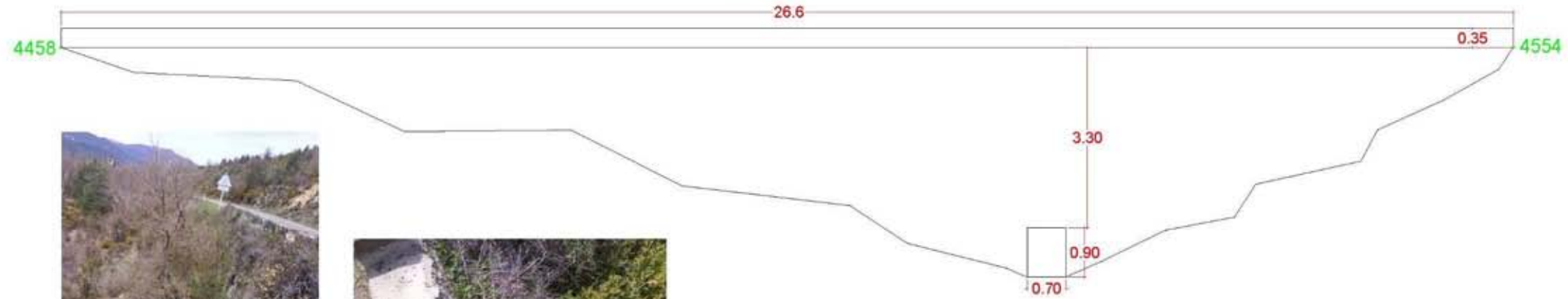
**PK 1+800 - 2**

**ENTRADA**



PUNTO	X	Y	Z
4458	746618,376	4706685,982	678,294
4569	746635,911	4706672,322	675,591
4565	746635,112	4706673,116	677,301
4572	746636,376	4706671,315	677,302
4554	746634,293	4706664,641	677,324

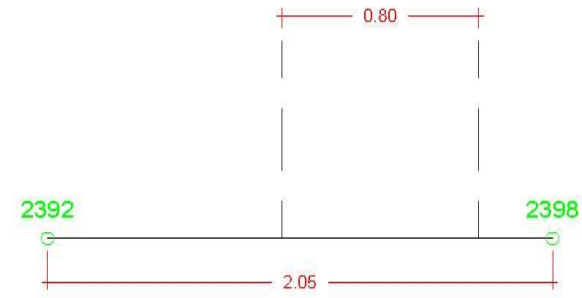
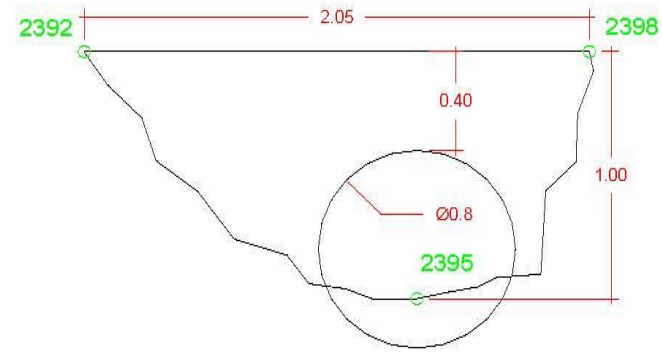
**SALIDA**





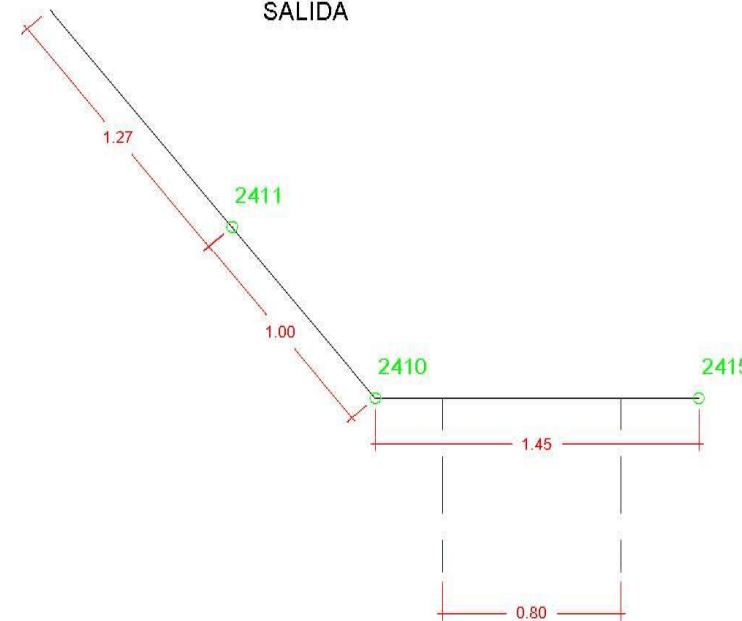
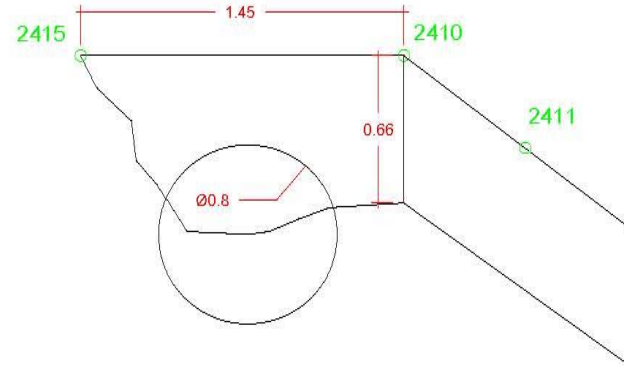
**PK 4+180**

**ENTRADA**



PUNTO	X	Y	Z
2395	744440,225	4706769,671	674,115
2398	744440,934	4706769,090	675,116
2392	744439,729	4706770,747	674,923
2411	744444,189	4706774,339	674,775
2410	744443,958	4706773,249	674,817
2415	744444,630	4706771,947	674,848

**SALIDA**

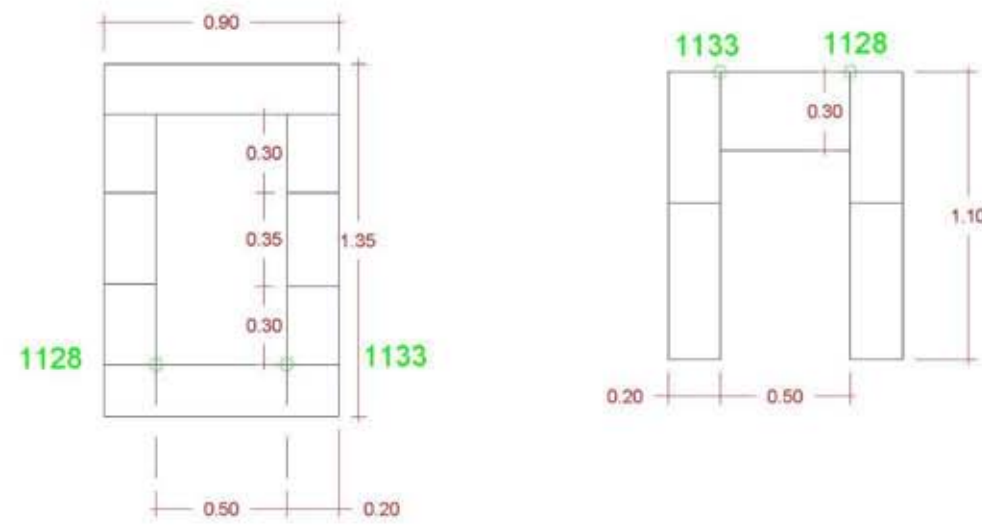


P.K. 9+350 Paso sobre el Barranco de Santiago

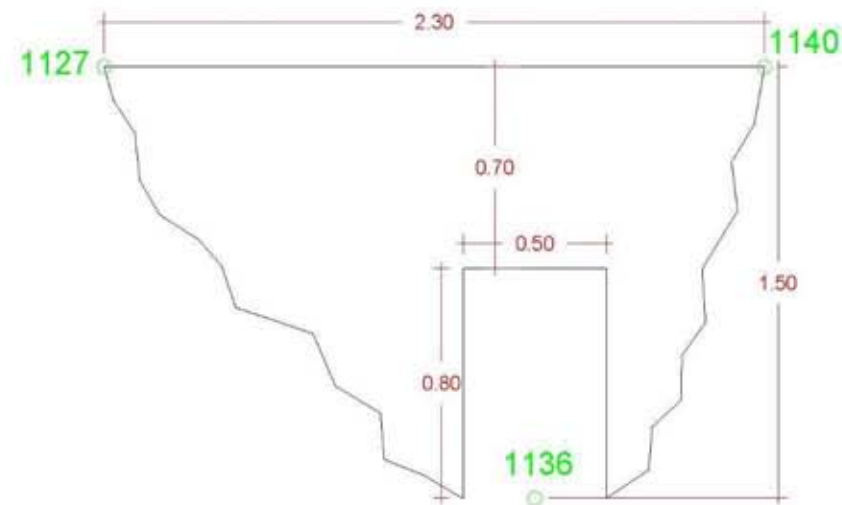
PUNTO	X	Y	Z
1140	739580,605	4708040,326	746,739
1127	739578,341	4708040,001	746,914
1136	739579,808	4708040,164	745,262
1133	739579,401	4708046,305	746,615
1128	739578,844	4708046,200	746,623

**PK 9+350**

**ENTRADA**



**SALIDA**





**5.6.TAQUIMÉTRICO GLORIETA DE FISCAL.  
CARRETERA NACIONAL 260 FISCAL-EL PUENTE SABIÑANIGO**

**5.6.1. Sistema de referencia: ED50 UTM HUSO 30**

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1	736801,323	4709645,467	761,981
2	736797,378	4709642,727	762,014
3	736792,203	4709639,037	762,028
4	736786,801	4709635,133	762,084
5	736787,292	4709634,004	762,023
6	736795,245	4709639,896	761,998
7	736800,190	4709643,392	761,975
8	736785,687	4709632,843	762,024
9	736777,803	4709626,713	762,110
10	736776,999	4709627,569	762,181
11	736771,126	4709622,646	762,231
12	736765,764	4709617,767	762,356
13	736767,038	4709617,223	762,256
14	736760,667	4709624,232	762,924
15	736761,462	4709623,227	762,837
16	736765,478	4709626,827	762,713
17	736767,744	4709628,823	762,658
18	736772,107	4709632,477	762,567
19	736775,207	4709634,926	762,506
20	736779,950	4709638,615	762,405
21	736779,319	4709639,568	762,461
22	736774,319	4709635,664	762,569
23	736766,122	4709628,917	762,780
24	736760,656	4709624,211	762,922
25	736765,505	4709628,385	762,774
26	736771,672	4709621,479	762,120
27	736781,562	4709629,917	762,040
28	736804,208	4709646,374	761,957
29	736827,281	4709662,097	761,784
30	736822,581	4709669,517	761,801
31	736833,423	4709677,212	761,713
32	736838,703	4709669,574	761,691
33	736831,543	4709675,658	761,717
34	736902,222	4709592,577	760,154
35	736909,401	4709597,644	759,627
36	736878,516	4709693,767	761,096
37	736876,297	4709698,418	761,061

Nombre	Coordenada X	Coordenada Y	Coordenada Z
38	736871,005	4709702,773	761,041
39	736865,018	4709704,083	761,157
40	736858,539	4709702,386	761,333
41	736853,002	4709696,735	761,655
42	736851,634	4709687,889	761,903
43	736855,728	4709680,294	761,933
44	736865,499	4709676,528	761,727
45	736872,583	4709678,706	761,483
46	736878,132	4709685,660	761,203
47	736878,758	4709692,782	761,084
48	736875,744	4709699,539	760,973
49	736876,395	4709700,204	760,908
50	736870,218	4709704,405	760,930
51	736869,885	4709703,523	760,970
52	736860,325	4709703,473	761,168
53	736859,753	4709704,246	761,121
54	736862,141	4709704,979	761,083
55	736862,276	4709704,064	761,094
56	736856,046	4709700,935	761,352
57	736855,290	4709701,526	761,308
58	736850,608	4709693,721	761,638
59	736851,521	4709693,404	761,655
60	736852,190	4709685,083	761,844
61	736851,415	4709684,638	761,802
62	736857,794	4709677,347	761,739
63	736858,384	4709678,057	761,768
64	736868,791	4709676,727	761,517
65	736869,095	4709675,831	761,475
66	736878,626	4709683,796	761,148
67	736877,848	4709684,230	761,155
68	736877,591	4709672,740	761,225
69	736877,456	4709673,013	761,212
70	736877,153	4709672,953	761,248
71	736876,191	4709672,364	761,254
72	736875,440	4709671,902	761,282
73	736873,961	4709671,177	761,312
74	736872,750	4709670,671	761,305
75	736872,536	4709670,450	761,345
76	736872,605	4709670,137	761,320
77	736873,954	4709668,799	761,303

78	736875,450	4709667,201	761,256
79	736877,031	4709665,152	761,204
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
80	736878,313	4709663,331	761,141
81	736878,665	4709663,129	761,133
82	736878,904	4709663,568	761,109
83	736878,683	4709664,833	761,128
84	736878,293	4709666,979	761,184
85	736878,003	4709669,051	761,189
86	736877,751	4709671,223	761,214
87	736877,315	4709672,736	761,320
88	736876,218	4709672,006	761,360
89	736875,180	4709671,453	761,415
90	736872,813	4709670,375	761,425
91	736874,572	4709668,602	761,402
92	736876,486	4709666,314	761,321
93	736878,040	4709664,127	761,253
94	736878,503	4709663,435	761,225
95	736878,566	4709663,354	761,218
96	736878,640	4709663,495	761,227
97	736878,327	4709665,080	761,227
98	736877,887	4709667,890	761,279
99	736877,501	4709670,758	761,325
100	736877,333	4709672,729	761,308
101	736878,559	4709675,262	761,202
102	736878,616	4709673,171	761,205
103	736879,012	4709668,579	761,153
104	736879,877	4709663,686	761,068
105	736881,051	4709658,979	760,994
106	736882,095	4709655,432	760,903
107	736883,168	4709652,177	760,855
108	736884,328	4709648,670	760,785
109	736887,520	4709639,570	760,616
110	736889,911	4709632,912	760,535
111	736893,259	4709623,606	760,388
112	736896,939	4709613,878	760,190
113	736901,503	4709603,535	759,998
114	736904,323	4709597,873	759,931
115	736908,316	4709590,859	759,821
116	736912,371	4709584,396	759,739
117	736917,254	4709577,530	759,699
118	736922,360	4709571,163	759,737
119	736928,068	4709564,497	759,855

120	736936,766	4709555,141	760,198
121	736935,011	4709553,002	760,170
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
122	736934,807	4709552,827	760,136
123	736938,515	4709557,733	760,089
124	736938,308	4709557,498	760,113
125	736933,676	4709563,094	759,793
126	736928,515	4709559,460	759,958
127	736922,763	4709565,640	759,917
128	736927,544	4709570,322	759,607
129	736922,403	4709576,889	759,462
130	736922,102	4709576,701	759,509
131	736916,461	4709573,253	759,885
132	736916,199	4709573,030	759,894
133	736909,690	4709581,244	759,983
134	736915,494	4709587,107	759,478
135	736909,922	4709596,689	759,614
136	736901,394	4709594,009	760,177
137	736897,698	4709600,752	760,283
138	736898,682	4709601,219	760,225
139	736904,896	4709604,391	759,810
140	736905,704	4709605,060	759,753
141	736900,360	4709617,806	760,017
142	736890,696	4709617,286	760,476
143	736886,462	4709628,843	760,604
144	736887,469	4709629,149	760,577
145	736894,028	4709631,838	760,373
146	736894,982	4709632,401	760,359
147	736891,821	4709641,222	760,555
148	736889,158	4709648,936	760,685
149	736885,652	4709660,731	760,873
150	736884,419	4709670,006	761,066
151	736885,296	4709680,115	761,057
152	736886,251	4709687,130	760,965
153	736886,168	4709693,984	760,846
154	736883,511	4709701,257	760,755
155	736875,933	4709708,590	760,883
156	736872,372	4709710,680	760,819
157	736867,283	4709714,329	760,861
158	736846,853	4709707,430	760,988
159	736846,174	4709702,162	761,195
160	736844,225	4709694,774	761,443
161	736841,263	4709688,010	761,563

162	736837,237	4709681,673	761,684
163	736833,800	4709677,524	761,716
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
164	736832,984	4709676,874	761,730
165	736827,054	4709672,752	761,758
166	736820,304	4709668,161	761,821
167	736812,875	4709663,054	761,900
168	736806,418	4709658,735	761,999
169	736806,937	4709657,676	761,999
170	736808,613	4709654,674	761,989
171	736810,579	4709651,787	761,938
172	736811,108	4709650,823	761,897
173	736818,754	4709655,982	761,865
174	736825,121	4709660,368	761,806
175	736832,908	4709665,635	761,759
176	736838,703	4709669,574	761,699
177	736840,839	4709670,486	761,668
178	736843,385	4709671,170	761,655
179	736847,863	4709671,686	761,635
180	736853,526	4709671,368	761,586
181	736859,047	4709669,928	761,516
182	736864,823	4709667,583	761,351
183	736868,369	4709665,014	761,182
184	736871,401	4709661,626	761,053
185	736874,441	4709657,281	760,911
186	736877,341	4709651,960	760,811
187	736879,941	4709646,254	760,755
188	736882,236	4709640,680	760,688
189	736883,051	4709641,026	760,714
190	736881,385	4709645,173	760,754
191	736878,890	4709650,952	760,811
192	736875,995	4709656,332	760,906
193	736871,572	4709662,668	761,100
194	736868,199	4709666,255	761,247
195	736863,291	4709669,472	761,452
196	736857,532	4709671,537	761,612
197	736852,107	4709672,538	761,635
198	736844,495	4709672,155	761,665
199	736838,798	4709670,516	761,690
200	736837,276	4709669,765	761,728
201	736835,049	4709668,497	761,723
202	736831,319	4709674,548	761,745

203	736833,127	4709675,884	761,749
204	736834,557	4709677,094	761,726
205	736837,399	4709680,241	761,686
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
206	736839,981	4709683,922	761,639
207	736842,218	4709687,664	761,591
208	736844,851	4709693,403	761,496
209	736846,653	4709699,339	761,334
210	736847,269	4709702,383	761,235
211	736848,008	4709707,758	761,020
212	736848,202	4709712,524	760,828
213	736848,046	4709716,062	760,687
214	736847,160	4709722,905	760,412
215	736852,801	4709723,342	760,567
216	736852,452	4709723,438	760,567
217	736852,254	4709723,151	760,614
218	736852,845	4709720,477	760,705
219	736853,391	4709716,873	760,825
220	736853,757	4709712,518	760,987
221	736853,837	4709708,565	761,110
222	736853,936	4709708,272	761,132
223	736854,233	4709708,244	761,104
224	736856,050	4709709,253	761,061
225	736857,896	4709710,002	761,002
226	736860,656	4709710,826	760,940
227	736860,893	4709711,030	760,962
228	736860,855	4709711,350	760,933
229	736858,884	4709713,660	760,869
230	736857,334	4709715,699	760,837
231	736855,400	4709718,843	760,713
232	736852,815	4709723,326	760,586
233	736852,539	4709723,184	760,664
234	736853,383	4709721,682	760,751
235	736852,957	4709721,418	760,728
236	736854,979	4709718,931	760,819
237	736853,692	4709717,309	760,884
238	736853,986	4709713,466	761,047
239	736854,110	4709710,272	761,146
240	736854,078	4709708,535	761,203
241	736854,905	4709708,983	761,163
242	736857,204	4709710,043	761,092
243	736859,075	4709710,709	761,080

244	736860,629	4709711,103	761,064
245	736858,390	4709713,797	761,012
246	736856,604	4709716,238	760,926
247	736853,805	4709719,848	760,863
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
248	736858,898	4709712,900	761,041
249	736858,890	4709710,901	761,122
250	736850,500	4709710,556	760,990
251	736850,476	4709709,758	761,015
252	736850,754	4709707,592	761,095
253	736850,051	4709707,630	761,091
254	736849,756	4709707,063	761,102
255	736850,973	4709707,003	761,118
256	736850,394	4709707,019	761,119
257	736849,749	4709707,038	761,129
258	736852,342	4709706,351	761,169
259	736852,338	4709705,788	761,165
260	736851,594	4709705,139	761,201
261	736851,552	4709705,638	761,191
262	736848,003	4709702,079	761,263
263	736847,938	4709702,528	761,247
264	736848,712	4709703,186	761,244
265	736848,761	4709702,698	761,260
266	736858,222	4709699,714	761,472
267	736859,691	4709700,266	761,420
268	736852,933	4709691,646	761,830
269	736855,166	4709684,265	761,985
270	736856,167	4709683,002	761,972
271	736862,444	4709678,284	761,895
272	736873,581	4709682,800	761,605
273	736875,033	4709683,438	761,457
274	736876,939	4709685,702	761,277
275	736874,970	4709671,250	761,434
276	736874,781	4709668,945	761,416
277	736877,559	4709665,898	761,347
278	736881,091	4709671,134	761,150
279	736880,455	4709674,598	761,161
280	736881,679	4709674,683	761,147
281	736878,986	4709674,930	761,238
282	736878,848	4709675,409	761,239
283	736884,031	4709679,527	761,025
284	736884,024	4709680,060	761,038
285	736887,488	4709651,055	760,731

286	736886,256	4709654,981	760,792
287	736884,845	4709660,656	760,882
288	736883,549	4709668,981	761,020
289	736883,595	4709674,993	761,045
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
290	736884,009	4709678,536	761,050
291	736884,677	4709682,681	760,996
292	736885,123	4709687,074	760,963
293	736885,010	4709692,664	760,899
294	736883,940	4709697,504	760,847
295	736881,738	4709701,742	760,803
296	736876,403	4709706,895	760,830
297	736871,274	4709710,217	760,837
298	736867,039	4709713,291	760,843
299	736863,013	4709717,266	760,794
300	736845,930	4709684,705	761,701
301	736843,908	4709681,853	761,743
302	736841,271	4709678,616	761,751
303	736838,444	4709675,621	761,778
304	736836,142	4709673,711	761,800
305	736832,750	4709671,237	761,830
306	736830,841	4709669,898	761,818
307	736834,546	4709672,258	761,790
308	736838,759	4709674,514	761,758
309	736842,681	4709676,097	761,769
310	736846,574	4709677,096	761,749
311	736849,777	4709677,442	761,760
312	736849,042	4709678,380	761,758
313	736848,277	4709679,589	761,758
314	736847,499	4709680,973	761,754
315	736846,577	4709682,854	761,737
316	736845,928	4709684,677	761,711
317	736845,539	4709682,321	761,737
318	736845,273	4709682,157	761,719
319	736844,436	4709681,134	761,736
320	736843,594	4709679,965	761,751
321	736842,745	4709678,937	761,766
322	736841,415	4709677,461	761,770
323	736841,274	4709677,095	761,794
324	736841,695	4709676,828	761,798
325	736842,907	4709677,184	761,774
326	736844,313	4709677,499	761,748
327	736845,713	4709677,841	761,776

328	736847,349	4709678,091	761,754
329	736847,648	4709678,227	761,773
330	736847,674	4709678,589	761,763
331	736847,222	4709679,497	761,742
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
332	736846,403	4709680,796	761,740
333	736845,878	4709682,015	761,723
334	736845,611	4709682,268	761,738
335	736845,300	4709682,121	761,737
336	736845,566	4709681,994	761,810
337	736844,423	4709680,651	761,849
338	736843,038	4709678,856	761,868
339	736841,523	4709677,237	761,846
340	736841,999	4709677,218	761,863
341	736843,588	4709677,613	761,868
342	736845,080	4709678,010	761,861
343	736847,365	4709678,406	761,850
344	736846,899	4709679,252	761,839
345	736846,246	4709680,547	761,818
346	736845,592	4709682,013	761,800
347	736845,144	4709681,521	761,843
348	736844,704	4709680,403	761,897
349	736845,878	4709680,375	761,896
350	736843,736	4709678,505	761,941
351	736842,270	4709756,929	759,314
352	736796,162	4709792,861	759,455
353	736805,061	4709785,063	759,233
354	736812,986	4709777,697	759,081
355	736823,646	4709766,276	759,049
356	736831,964	4709754,787	759,139
357	736837,507	4709745,370	759,417
358	736844,750	4709727,452	760,104
359	736846,839	4709712,637	760,700
360	736845,946	4709703,050	760,944
361	736842,840	4709691,410	761,517
362	736833,485	4709677,171	761,705
363	736838,752	4709669,564	761,663
364	736855,130	4709670,966	761,435
365	736866,507	4709666,264	761,028
366	736875,500	4709655,263	760,765
367	736881,044	4709643,380	760,642
368	736887,091	4709626,996	760,579

369	736894,337	4709608,165	760,361
370	736899,557	4709597,120	760,229
371	736907,961	4709583,652	760,015
372	736920,816	4709567,751	759,899
373	736940,038	4709546,827	760,388
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
374	736934,928	4709551,420	760,105
375	736933,100	4709552,978	760,049
376	736929,478	4709556,848	759,993
377	736930,365	4709555,673	760,050
378	736931,105	4709555,749	759,926
379	736939,855	4709557,840	760,100
380	736943,063	4709554,722	760,058
381	736917,609	4709584,344	759,513
382	736913,852	4709592,261	759,069
383	736913,911	4709592,249	759,245
384	736914,204	4709592,325	759,229
385	736914,225	4709592,547	759,247
386	736913,647	4709593,147	759,319
387	736912,814	4709596,650	759,538
388	736912,330	4709599,488	759,722
389	736911,981	4709599,592	758,955
390	736909,568	4709600,725	759,136
391	736906,496	4709605,821	759,422
392	736909,792	4709602,305	759,188
393	736910,226	4709603,190	758,893
394	736911,319	4709602,128	758,916
395	736900,719	4709620,717	759,540
396	736899,859	4709622,981	759,530
397	736900,209	4709622,845	759,485
398	736900,925	4709621,013	759,467
399	736902,655	4709621,314	758,288
400	736902,539	4709621,538	758,233
401	736903,353	4709621,626	758,237
402	736903,008	4709621,744	758,267
403	736902,422	4709623,625	758,253
404	736902,512	4709623,897	758,324
405	736901,933	4709623,419	758,224
406	736902,275	4709623,535	757,457
407	736902,919	4709621,769	757,215
408	736902,232	4709622,566	757,271
409	736900,034	4709624,222	759,493



410	736899,374	4709627,494	759,823
411	736896,040	4709633,316	760,120
412	736887,263	4709660,044	760,653
413	736885,986	4709667,913	760,826
414	736885,660	4709668,562	760,794
415	736886,472	4709678,635	760,753
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
416	736845,337	4709707,457	760,673
417	736843,378	4709721,914	759,659
418	736842,628	4709715,872	759,076
419	736841,035	4709710,493	758,634
420	736839,681	4709705,407	758,583
421	736837,476	4709702,079	758,152
422	736832,891	4709694,571	757,371
423	736829,383	4709689,646	756,832
424	736826,627	4709684,257	756,889
425	736826,111	4709679,007	757,076
426	736826,466	4709675,491	757,024
427	736835,514	4709663,120	757,140
428	736839,397	4709661,203	756,995
429	736841,854	4709660,457	756,910
430	736845,666	4709658,372	756,909
431	736849,288	4709654,646	756,697
432	736852,901	4709650,426	756,814
433	736857,761	4709646,625	757,085
434	736865,138	4709638,096	757,708
435	736868,875	4709632,912	757,817
436	736873,128	4709628,583	757,972
437	736877,370	4709621,706	757,726
438	736879,618	4709618,605	757,437
439	736912,292	4709544,369	757,935
440	736909,675	4709547,333	757,882
441	736909,056	4709550,033	757,968
442	736908,658	4709551,340	757,892
443	736907,877	4709552,124	757,639
444	736906,343	4709553,305	757,056
445	736904,075	4709555,091	756,248
446	736901,896	4709557,526	755,505
447	736900,471	4709560,017	754,990
448	736900,291	4709560,244	754,967
449	736900,365	4709559,140	754,884
450	736900,654	4709556,927	754,811
451	736901,898	4709553,337	754,664

452	736902,870	4709549,057	754,348
453	736903,736	4709546,892	754,257
454	736909,158	4709539,006	754,371
455	736914,215	4709533,873	754,497
456	736908,514	4709530,288	754,048
457	736904,478	4709537,323	754,023
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
458	736900,590	4709544,883	754,127
459	736900,611	4709547,105	754,129
460	736900,653	4709548,997	754,164
461	736899,622	4709552,757	754,447
462	736897,067	4709558,871	754,573
463	736896,699	4709565,563	754,447
464	736901,182	4709566,732	754,849
465	736900,503	4709571,885	755,161
466	736899,296	4709576,612	755,384
467	736897,167	4709574,907	754,818
468	736898,122	4709571,961	754,688
469	736899,467	4709569,685	754,610
470	736898,908	4709576,524	755,287
471	736895,677	4709577,039	754,320
472	736896,574	4709580,667	754,832
473	736895,837	4709581,658	754,739
474	736892,526	4709584,613	754,084
475	736891,519	4709583,408	753,960
476	736890,538	4709582,800	753,953
477	736891,598	4709580,248	754,358
478	736888,323	4709580,863	754,015
479	736884,245	4709592,561	754,097
480	736885,430	4709593,004	754,152
481	736887,110	4709594,377	754,416
482	736885,176	4709598,570	754,682
483	736881,314	4709605,627	754,792
484	736878,447	4709611,647	755,343
485	736881,153	4709612,639	756,223
486	736883,254	4709613,544	756,712
487	736882,049	4709614,101	756,130
488	736880,618	4709613,285	755,720
489	736878,613	4709612,254	755,294
490	736877,465	4709612,006	755,110
491	736877,926	4709613,452	755,292
492	736879,986	4709614,869	755,788
493	736882,129	4709616,284	756,424

494	736882,631	4709616,184	756,475
495	736882,493	4709616,399	756,576
496	736883,301	4709614,511	756,449
497	736883,353	4709614,288	756,480
498	736881,706	4709616,805	756,805
499	736880,428	4709616,636	756,788
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
500	736878,376	4709616,316	756,443
501	736876,400	4709615,976	756,204
502	736875,982	4709617,344	756,509
503	736875,598	4709619,664	756,942
504	736872,754	4709625,062	757,250
505	736870,559	4709627,415	757,239
506	736864,837	4709636,865	757,476
507	736865,488	4709637,996	757,799
508	736866,412	4709636,166	757,834
509	736867,666	4709636,620	758,230
510	736870,003	4709635,922	758,636
511	736871,328	4709633,122	758,447
512	736875,154	4709629,404	758,519
513	736875,662	4709624,670	757,878
514	736876,925	4709621,747	757,649
515	736876,923	4709621,739	757,652
516	736879,185	4709621,310	758,062
517	736881,751	4709622,798	758,822
518	736883,939	4709621,476	759,188
519	736885,867	4709619,323	759,587
520	736886,588	4709619,638	760,015
521	736885,952	4709623,047	760,124
522	736888,260	4709617,051	760,128
523	736885,389	4709614,820	758,572
524	736885,668	4709614,930	758,567
525	736884,489	4709617,106	758,529
526	736884,768	4709617,216	758,589
527	736876,376	4709612,400	754,986
528	736873,260	4709613,286	754,873
529	736873,409	4709615,551	755,389
530	736870,319	4709621,756	755,668
531	736867,125	4709623,895	755,185
532	736866,366	4709627,196	755,837
533	736863,595	4709628,884	755,420
534	736864,600	4709631,158	756,191

535	736860,149	4709632,643	755,132
536	736858,332	4709635,613	754,990
537	736859,720	4709637,118	755,879
538	736857,310	4709641,408	756,010
539	736854,082	4709642,326	755,387
540	736853,558	4709646,676	756,100
541	736855,466	4709648,889	756,917
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
542	736859,776	4709642,362	756,888
543	736861,560	4709636,873	756,564
544	736859,182	4709632,281	754,776
545	736852,930	4709739,211	759,495
546	736852,796	4709739,124	759,521
547	736851,802	4709741,479	759,476
548	736851,673	4709741,420	759,508
549	736853,976	4709742,265	758,429
550	736854,027	4709742,425	758,441
551	736855,146	4709740,523	758,450
552	736854,865	4709740,479	758,415
553	736853,965	4709739,994	758,394
554	736819,303	4709722,847	758,053
555	736819,037	4709722,700	758,026
556	736818,178	4709725,024	758,032
557	736817,940	4709724,916	757,999
558	736817,102	4709721,902	755,652
559	736816,124	4709723,903	755,698
560	736818,865	4709722,763	755,763
561	736817,906	4709724,649	755,773
562	736799,069	4709788,566	759,023
563	736796,773	4709790,209	758,869
564	736794,493	4709789,819	758,413
565	736795,448	4709786,256	757,770
566	736794,191	4709784,825	756,878
567	736795,627	4709782,012	756,999
568	736798,108	4709781,600	757,846
569	736801,572	4709781,252	758,313
570	736803,299	4709783,298	758,831
571	736802,915	4709779,226	758,278
572	736800,174	4709779,183	757,991
573	736802,928	4709773,677	757,914
574	736807,383	4709774,937	758,329
575	736812,540	4709774,359	758,735

576	736815,748	4709771,892	758,779
577	736811,182	4709767,835	758,316
578	736806,173	4709764,654	757,969
579	736806,828	4709760,002	758,045
580	736811,807	4709760,598	758,166
581	736816,590	4709763,817	758,412
582	736822,786	4709764,017	758,699
583	736825,024	4709760,256	758,672
Nombre	Coordenada X	Coordenada Y	Coordenada Z
584	736819,399	4709757,283	758,277
585	736814,989	4709753,970	758,160
586	736811,299	4709750,593	758,116
587	736812,806	4709745,804	757,912
588	736821,551	4709749,866	758,102
589	736825,646	4709751,593	758,341
590	736830,134	4709751,989	758,773
591	736832,735	4709747,843	758,779
592	736827,852	4709745,130	758,339
593	736823,211	4709743,342	758,001
594	736818,330	4709740,705	757,754
595	736817,298	4709734,476	758,108
596	736823,687	4709733,811	758,412
597	736828,711	4709738,511	758,463
598	736836,134	4709740,462	758,884
599	736839,783	4709734,917	759,262
600	736834,842	4709732,769	758,692
601	736828,612	4709730,222	758,549
602	736823,091	4709728,889	758,392
603	736820,545	4709724,706	758,098
604	736828,560	4709724,805	758,303
605	736836,895	4709725,231	758,762
606	736842,919	4709723,672	759,641
607	736839,181	4709719,352	758,978
608	736831,807	4709717,692	758,252
609	736823,878	4709717,142	757,514
610	736819,805	4709712,626	757,228
611	736824,872	4709709,758	757,425
612	736832,080	4709712,103	757,939
613	736839,144	4709715,855	758,737
614	736842,044	4709716,951	758,997
615	736838,532	4709709,799	758,274
616	736832,702	4709707,694	757,666
617	736826,771	4709705,475	757,315

618	736827,374	4709701,786	756,779
619	736828,544	4709697,868	756,377
620	736825,643	4709694,629	755,845
621	736821,773	4709694,634	755,534
622	736820,582	4709689,697	754,971
623	736819,746	4709685,929	754,579
624	736816,936	4709687,114	754,160
625	736819,012	4709681,332	754,066
Nombre	Coordenada X	Coordenada Y	Coordenada Z
626	736815,021	4709684,862	753,706
627	736815,014	4709689,115	754,074
628	736818,563	4709693,754	755,759
629	736819,419	4709706,088	757,163
630	736817,601	4709710,984	757,109
631	736817,370	4709713,908	756,998
632	736821,161	4709718,166	757,366
633	736819,890	4709722,040	757,654
634	736817,606	4709727,082	757,784
635	736813,361	4709730,825	757,263
636	736814,047	4709736,019	757,624
637	736810,759	4709744,592	757,819
638	736808,265	4709750,780	757,722
639	736803,959	4709760,267	757,842
640	736800,361	4709772,697	757,656
641	736797,855	4709781,427	757,729
642	736795,640	4709788,176	758,224
643	736793,528	4709793,022	758,713
644	736805,848	4709783,065	759,112
645	736802,792	4709781,300	758,480
646	736832,595	4709752,294	759,169
647	736830,565	4709698,078	756,647
648	736827,700	4709694,565	756,046
649	736824,474	4709691,042	755,593
650	736821,973	4709687,441	755,069
651	736821,102	4709681,313	754,229
652	736820,862	4709676,986	753,610
653	736821,556	4709674,668	753,279
654	736812,739	4709681,811	752,255
655	736869,094	4709714,322	760,738
656	736869,751	4709713,950	760,754
657	736858,368	4709728,663	760,263
658	736887,484	4709694,334	760,925
659	736887,038	4709694,947	761,109

660	736885,650	4709668,628	760,777
661	736886,014	4709667,921	760,830
662	736893,515	4709673,948	759,951
663	736887,815	4709672,396	760,514
664	736890,756	4709666,684	760,118
665	736892,646	4709656,548	759,961
666	736894,975	4709642,322	760,131
667	736898,753	4709633,931	759,720
Nombre	Coordenada X	Coordenada Y	Coordenada Z
668	736899,273	4709628,513	759,836
669	736902,762	4709626,629	758,528
670	736900,564	4709625,014	759,396
671	736895,472	4709636,679	760,131
672	736891,344	4709647,867	760,389
673	736875,400	4709690,231	761,289
674	736873,588	4709693,267	761,297
675	736871,064	4709696,860	761,332
676	736866,509	4709699,036	761,299
677	736861,765	4709698,871	761,394
678	736857,586	4709697,297	761,585
679	736855,352	4709693,329	761,763
680	736855,782	4709688,029	761,943
681	736858,505	4709682,761	761,925
682	736862,898	4709680,850	761,947
683	736866,769	4709681,779	761,948
684	736871,421	4709684,552	761,758
685	736870,267	4709685,822	761,850
686	736867,860	4709686,004	762,061
687	736865,114	4709686,687	762,050
688	736861,521	4709688,294	761,975
689	736860,363	4709691,028	761,969
690	736862,006	4709694,574	761,670
691	736865,557	4709693,138	761,935
692	736868,150	4709690,452	761,972
693	736868,243	4709685,906	762,025
694	736866,584	4709686,715	762,128
695	736863,894	4709688,782	762,024
696	736860,842	4709690,814	761,971
697	736860,558	4709692,680	761,849
698	736866,606	4709690,078	762,051
699	736867,835	4709689,326	761,999
700	736869,050	4709688,360	761,976

701	736879,823	4709693,511	760,964
702	736863,143	4709710,229	760,952
703	736859,119	4709714,859	760,842
704	736854,811	4709721,645	760,619
705	736844,833	4709741,682	759,831
706	736858,382	4709703,632	761,177
707	736859,227	4709703,998	761,159
708	736844,765	4709741,797	759,837
709	736839,470	4709751,547	759,475
Nombre	Coordenada X	Coordenada Y	Coordenada Z
710	736832,375	4709762,061	759,196
711	736816,854	4709779,097	759,245
712	736806,471	4709788,238	759,369
713	736795,573	4709797,699	759,493
714	736783,423	4709809,641	759,856
715	736784,098	4709814,244	759,838
716	736793,464	4709803,397	759,518
717	736807,469	4709791,289	759,388
718	736819,013	4709781,708	759,255
719	736831,871	4709768,315	759,337
720	736842,739	4709752,866	759,607
721	736850,705	4709737,963	760,077
722	736858,505	4709723,671	760,559
723	736870,215	4709710,897	760,834
724	736870,096	4709712,191	760,844
725	736862,718	4709719,143	760,720
726	736855,557	4709730,619	760,293
727	736849,006	4709743,663	759,863
728	736841,104	4709757,785	759,474
729	736831,697	4709769,611	759,304
730	736819,996	4709781,310	759,201
731	736805,310	4709793,493	759,357
732	736792,513	4709804,706	759,649
733	736778,284	4709810,539	760,060
734	736784,195	4709814,769	759,800
735	736788,471	4709799,946	759,629
736	736796,286	4709792,816	759,472
737	736807,397	4709783,053	759,272
738	736819,917	4709770,808	759,070
739	736830,774	4709756,875	759,171
740	736840,026	4709740,695	759,660
741	736845,128	4709726,609	760,239

742	736846,963	4709713,415	760,752
743	736845,878	4709700,611	761,281
744	736846,939	4709700,510	761,304
745	736848,102	4709709,655	760,937
746	736856,760	4709708,554	761,046
747	736852,714	4709706,033	761,175
748	736852,448	4709716,573	760,815
749	736847,702	4709719,494	760,570
750	736850,798	4709725,502	760,431
751	736844,405	4709732,560	760,033
Nombre	Coordenada X	Coordenada Y	Coordenada Z
752	736846,704	4709737,107	760,008
753	736839,354	4709744,622	759,547
754	736829,752	4709759,695	759,137
755	736818,016	4709773,181	759,075
756	736802,792	4709787,978	759,371
757	736790,279	4709798,924	759,562
758	736778,592	4709810,813	760,071
759	736788,303	4709810,509	759,819
760	736795,965	4709803,419	759,545
761	736806,729	4709794,196	759,392
762	736817,989	4709784,899	759,301
763	736831,183	4709772,661	759,069
764	736843,781	4709759,906	758,919
765	736852,146	4709750,234	758,649
766	736860,090	4709742,347	758,837
767	736866,790	4709734,176	758,724
768	736873,973	4709723,114	759,061
769	736879,803	4709712,484	760,161
770	736843,860	4709759,339	758,708
771	736843,643	4709759,660	758,913
772	736836,581	4709766,858	758,873
773	736836,516	4709767,061	759,100
774	736824,755	4709778,630	758,973
775	736824,684	4709778,731	759,211
776	736814,320	4709787,516	759,110
777	736814,346	4709787,548	759,323
778	736802,833	4709797,020	759,164
779	736802,831	4709797,110	759,354
780	736793,934	4709804,709	759,330
781	736793,957	4709804,711	759,580
782	736786,188	4709812,744	759,671
783	736786,233	4709812,764	759,918

784	736785,840	4709802,217	759,741
785	736785,533	4709801,723	759,688
786	736796,067	4709792,860	759,452
787	736795,720	4709792,427	759,404
788	736811,475	4709777,441	758,911
789	736811,823	4709776,780	759,013
790	736832,234	4709751,884	759,117
791	736832,862	4709751,565	759,068
792	736845,551	4709722,703	760,188
793	736845,500	4709721,882	760,220
Nombre	Coordenada X	Coordenada Y	Coordenada Z
794	736844,691	4709698,752	761,162
795	736844,396	4709697,826	761,121
796	736844,701	4709698,731	761,154
797	736834,101	4709678,356	761,573
798	736833,624	4709679,191	761,592
799	736840,721	4709688,561	761,434
800	736833,320	4709678,325	761,081
801	736833,439	4709681,130	761,112
802	736835,179	4709685,219	760,913
803	736837,473	4709690,000	760,725
804	736840,419	4709695,849	760,649
805	736842,337	4709701,707	760,380
806	736844,182	4709706,991	760,338
807	736845,549	4709712,260	760,431
808	736845,399	4709719,657	760,151
809	736832,705	4709699,327	757,220
810	736830,341	4709695,274	757,124
811	736825,994	4709689,956	756,499
812	736823,043	4709684,184	756,720
813	736822,685	4709676,565	756,907
814	736841,843	4709657,304	756,185
815	736837,833	4709655,655	756,536
816	736834,420	4709656,477	756,759
817	736831,195	4709659,609	756,860
818	736835,427	4709663,553	757,147
819	736840,359	4709661,080	757,065
820	736843,347	4709656,357	755,346
821	736857,881	4709651,555	758,168
822	736863,326	4709646,838	758,553
823	736869,505	4709640,586	758,936
824	736875,135	4709632,773	759,014
825	736879,488	4709628,436	759,180



826	736883,263	4709623,411	759,347
827	736885,684	4709624,205	760,201
828	736883,160	4709631,057	760,239
829	736880,087	4709633,823	759,790
830	736880,381	4709639,069	760,273
831	736875,647	4709642,333	759,686
832	736876,938	4709648,737	760,445
833	736870,801	4709652,688	759,863
834	736871,134	4709658,504	760,438
835	736864,830	4709658,517	759,934

Nombre	Coordenada X	Coordenada Y	Coordenada Z
836	736865,819	4709664,040	760,626
837	736859,205	4709663,446	760,173
838	736857,822	4709667,559	760,899
839	736852,274	4709666,280	760,511
840	736847,266	4709668,419	760,822
841	736850,856	4709671,034	761,273
842	736851,514	4709670,746	761,336
843	736866,038	4709665,752	761,008
844	736870,804	4709661,211	760,833
845	736865,761	4709666,270	760,977
846	736881,988	4709638,053	760,463
847	736881,550	4709638,480	760,515
848	736891,337	4709611,740	760,347
849	736891,505	4709612,614	760,204
850	736906,546	4709584,046	759,764
851	736905,824	4709584,423	759,908
852	736911,572	4709556,033	758,286
853	736906,530	4709558,841	758,486
854	736905,480	4709563,075	758,642
855	736906,964	4709568,027	759,157
856	736907,206	4709573,968	758,923
857	736904,766	4709577,623	758,821
858	736903,181	4709582,831	759,254
859	736900,576	4709588,373	759,438
860	736897,566	4709593,967	759,449
861	736893,464	4709601,943	759,721
862	736891,110	4709607,401	759,917
863	736888,936	4709613,995	760,058
864	736887,292	4709615,422	759,569
865	736905,158	4709682,281	769,269
866	736904,960	4709678,865	769,076

867	736900,397	4709682,527	769,513
868	736900,230	4709679,291	769,213
869	736881,416	4709721,063	771,158
870	736901,218	4709675,954	769,628
871	736903,776	4709666,156	769,459
872	736906,005	4709657,764	769,069
873	736910,822	4709643,502	768,451
874	736914,850	4709629,653	768,121
875	736917,171	4709621,637	767,931
876	736922,340	4709606,329	766,999
877	736932,268	4709596,160	765,972

Nombre	Coordenada X	Coordenada Y	Coordenada Z
878	736936,503	4709586,201	765,291
879	736940,696	4709577,260	764,678
880	736941,835	4709577,377	764,819
881	736945,177	4709579,773	764,902
882	736938,575	4709585,265	765,368
883	736941,090	4709589,348	765,525
884	736932,956	4709597,009	766,093
885	736934,484	4709602,376	766,449
886	736924,227	4709617,542	767,477
887	736928,225	4709621,115	767,510
888	736925,505	4709613,009	767,379
889	736923,476	4709612,361	767,388
890	736921,339	4709611,654	767,415
891	736922,150	4709611,581	767,435
892	736917,273	4709624,668	768,027
893	736917,293	4709624,646	768,030
894	736921,152	4709627,458	767,938
895	736925,599	4709629,493	767,915
896	736912,382	4709640,855	768,630
897	736907,307	4709657,198	769,392
898	736911,665	4709659,198	769,405
899	736910,498	4709663,166	769,630
900	736910,341	4709663,335	769,725
901	736908,472	4709662,691	769,765
902	736905,752	4709661,935	769,753
903	736906,280	4709662,458	769,749
904	736910,348	4709663,337	769,716
905	736908,541	4709669,066	770,017
906	736909,709	4709673,175	770,283
907	736914,050	4709678,715	770,752

908	736917,810	4709674,013	770,540
909	736915,443	4709670,928	770,203
910	736914,686	4709666,476	769,787
911	736950,795	4709564,723	763,866
912	736945,631	4709567,858	764,158
913	736880,684	4709603,409	754,512
914	736877,216	4709604,529	754,389
915	736877,353	4709605,595	754,435
916	736933,443	4709562,890	759,790
917	736927,306	4709570,122	759,610
918	736915,231	4709586,943	759,480
919	736909,652	4709596,537	759,610
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
920	736882,838	4709709,881	759,800
921	736885,603	4709704,152	759,800
922	736889,179	4709694,823	759,840
923	736892,069	4709685,029	759,740
924	736898,466	4709657,876	760,050
925	736902,516	4709644,089	760,108
926	736905,923	4709627,183	759,194
927	736907,302	4709616,201	759,419
928	736903,686	4709529,554	750,783
929	736899,100	4709535,436	750,803
930	736893,456	4709542,249	750,803
931	736889,729	4709549,570	750,823
932	736880,563	4709552,955	751,123
933	736867,990	4709572,677	751,493
934	736842,826	4709628,994	752,183
935	736853,546	4709602,515	751,923
936	736829,833	4709654,090	752,253
937	736808,410	4709691,697	752,653
938	736799,629	4709716,509	753,163
939	736796,548	4709738,346	753,590
940	736791,919	4709747,835	753,795
941	736790,045	4709762,067	754,073
942	736783,435	4709780,065	754,445
943	736774,824	4709792,710	754,741

## 5.6.2. Sistema de referencia: ETRS89 UTM HUSO 30

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1	736694,079	4709435,351	761,981
2	736690,133	4709432,611	762,014
3	736684,958	4709428,921	762,028
4	736679,557	4709425,017	762,084
5	736680,048	4709423,888	762,023
6	736688,001	4709429,780	761,998
7	736692,946	4709433,276	761,975
8	736678,442	4709422,727	762,024
9	736670,559	4709416,597	762,110
10	736669,754	4709417,453	762,181
11	736663,882	4709412,530	762,231
12	736658,519	4709407,651	762,356
13	736659,794	4709407,107	762,256
14	736653,422	4709414,116	762,924
15	736654,218	4709413,111	762,837
16	736658,233	4709416,711	762,713
17	736660,499	4709418,707	762,658
18	736664,863	4709422,361	762,567
19	736667,962	4709424,810	762,506
20	736672,705	4709428,499	762,405
21	736672,074	4709429,452	762,461
22	736667,075	4709425,548	762,569
23	736658,877	4709418,801	762,780
24	736653,411	4709414,095	762,922
25	736658,260	4709418,269	762,774
26	736664,427	4709411,363	762,120
27	736674,317	4709419,801	762,040
28	736696,963	4709436,258	761,957
29	736720,037	4709451,981	761,784
30	736715,336	4709459,401	761,801
31	736726,178	4709467,096	761,713
32	736731,458	4709459,458	761,691
33	736724,299	4709465,542	761,717
34	736794,978	4709382,461	760,154
35	736802,156	4709387,528	759,627
36	736771,272	4709483,651	761,096
37	736769,052	4709488,302	761,061

Nombre	Coordenada X	Coordenada Y	Coordenada Z
38	736763,760	4709492,657	761,041
39	736757,774	4709493,967	761,157
40	736751,294	4709492,270	761,333
41	736745,758	4709486,619	761,655
42	736744,389	4709477,773	761,903
43	736748,483	4709470,178	761,933
44	736758,255	4709466,412	761,727
45	736765,338	4709468,590	761,483
46	736770,887	4709475,544	761,203
47	736771,513	4709482,666	761,084
48	736768,500	4709489,423	760,973
49	736769,150	4709490,088	760,908
50	736762,974	4709494,289	760,930
51	736762,641	4709493,407	760,970
52	736753,080	4709493,357	761,168
53	736752,508	4709494,130	761,121
54	736754,896	4709494,863	761,083
55	736755,031	4709493,948	761,094
56	736748,802	4709490,819	761,352
57	736748,045	4709491,410	761,308
58	736743,363	4709483,605	761,638
59	736744,277	4709483,288	761,655
60	736744,945	4709474,967	761,844
61	736744,170	4709474,522	761,802
62	736750,550	4709467,231	761,739
63	736751,140	4709467,941	761,768
64	736761,546	4709466,611	761,517
65	736761,850	4709465,715	761,475
66	736771,381	4709473,680	761,148
67	736770,604	4709474,114	761,155
68	736770,346	4709462,624	761,225
69	736770,211	4709462,897	761,212
70	736769,908	4709462,837	761,248
71	736768,946	4709462,248	761,254
72	736768,196	4709461,786	761,282
73	736766,717	4709461,061	761,312
74	736765,505	4709460,555	761,305
75	736765,292	4709460,334	761,345
76	736765,360	4709460,021	761,320
77	736766,710	4709458,683	761,303
78	736768,205	4709457,085	761,256

79	736769,786	4709455,036	761,204
Nombre	Coordenada X	Coordenada Y	Coordenada Z
80	736771,069	4709453,215	761,141
81	736771,421	4709453,013	761,133
82	736771,659	4709453,452	761,109
83	736771,438	4709454,717	761,128
84	736771,048	4709456,863	761,184
85	736770,759	4709458,935	761,189
86	736770,507	4709461,107	761,214
87	736770,071	4709462,620	761,320
88	736768,973	4709461,890	761,360
89	736767,935	4709461,337	761,415
90	736765,568	4709460,259	761,425
91	736767,328	4709458,486	761,402
92	736769,241	4709456,198	761,321
93	736770,795	4709454,011	761,253
94	736771,258	4709453,319	761,225
95	736771,321	4709453,237	761,218
96	736771,395	4709453,379	761,227
97	736771,082	4709454,964	761,227
98	736770,642	4709457,774	761,279
99	736770,257	4709460,642	761,325
100	736770,089	4709462,613	761,308
101	736771,314	4709465,146	761,202
102	736771,371	4709463,055	761,205
103	736771,767	4709458,463	761,153
104	736772,633	4709453,570	761,068
105	736773,806	4709448,863	760,994
106	736774,850	4709445,316	760,903
107	736775,924	4709442,061	760,855
108	736777,084	4709438,554	760,785
109	736780,275	4709429,454	760,616
110	736782,666	4709422,796	760,535
111	736786,014	4709413,490	760,388
112	736789,694	4709403,762	760,190
113	736794,258	4709393,419	759,998
114	736797,079	4709387,757	759,931
115	736801,071	4709380,743	759,821
116	736805,127	4709374,280	759,739
117	736810,010	4709367,414	759,699
118	736815,115	4709361,047	759,737
119	736820,823	4709354,381	759,855
120	736829,522	4709345,025	760,198

121	736827,766	4709342,886	760,170
Nombre	Coordenada X	Coordenada Y	Coordenada Z
122	736827,563	4709342,711	760,136
123	736831,271	4709347,617	760,089
124	736831,064	4709347,382	760,113
125	736826,431	4709352,978	759,793
126	736821,270	4709349,344	759,958
127	736815,519	4709355,524	759,917
128	736820,299	4709360,206	759,607
129	736815,158	4709366,773	759,462
130	736814,858	4709366,585	759,509
131	736809,216	4709363,137	759,885
132	736808,954	4709362,914	759,894
133	736802,445	4709371,128	759,983
134	736808,250	4709376,991	759,478
135	736802,677	4709386,573	759,614
136	736794,149	4709383,893	760,177
137	736790,453	4709390,636	760,283
138	736791,437	4709391,103	760,225
139	736797,651	4709394,275	759,810
140	736798,460	4709394,944	759,753
141	736793,115	4709407,690	760,017
142	736783,451	4709407,170	760,476
143	736779,217	4709418,727	760,604
144	736780,224	4709419,033	760,577
145	736786,783	4709421,722	760,373
146	736787,738	4709422,285	760,359
147	736784,577	4709431,106	760,555
148	736781,914	4709438,820	760,685
149	736778,408	4709450,615	760,873
150	736777,174	4709459,890	761,066
151	736778,052	4709469,999	761,057
152	736779,007	4709477,014	760,965
153	736778,923	4709483,868	760,846
154	736776,267	4709491,141	760,755
155	736768,688	4709498,474	760,883
156	736765,127	4709500,564	760,819
157	736760,038	4709504,213	760,861
158	736739,608	4709497,314	760,988
159	736738,929	4709492,046	761,195
160	736736,980	4709484,658	761,443
161	736734,018	4709477,894	761,563
162	736729,993	4709471,557	761,684

Nombre	Coordenada X	Coordenada Y	Coordenada Z
163	736726,555	4709467,408	761,716
164	736725,739	4709466,758	761,730
165	736719,809	4709462,636	761,758
166	736713,060	4709458,044	761,821
167	736705,631	4709452,938	761,900
168	736699,174	4709448,619	761,999
169	736699,693	4709447,560	761,999
170	736701,369	4709444,558	761,989
171	736703,334	4709441,671	761,938
172	736703,863	4709440,707	761,897
173	736711,509	4709445,866	761,865
174	736717,877	4709450,252	761,806
175	736725,663	4709455,519	761,759
176	736731,458	4709459,458	761,699
177	736733,595	4709460,370	761,668
178	736736,140	4709461,054	761,655
179	736740,618	4709461,570	761,635
180	736746,282	4709461,252	761,586
181	736751,802	4709459,812	761,516
182	736757,579	4709457,467	761,351
183	736761,124	4709454,898	761,182
184	736764,157	4709451,509	761,053
185	736767,196	4709447,165	760,911
186	736770,096	4709441,844	760,811
187	736772,696	4709436,138	760,755
188	736774,991	4709430,564	760,688
189	736775,807	4709430,910	760,714
190	736774,140	4709435,056	760,754
191	736771,646	4709440,836	760,811
192	736768,750	4709446,216	760,906
193	736764,327	4709452,552	761,100
194	736760,955	4709456,139	761,247
195	736756,046	4709459,356	761,452
196	736750,287	4709461,421	761,612
197	736744,862	4709462,422	761,635
198	736737,250	4709462,039	761,665
199	736731,554	4709460,400	761,690
200	736730,031	4709459,649	761,728
201	736727,805	4709458,381	761,723
202	736724,074	4709464,432	761,745
203	736725,882	4709465,768	761,749

Nombre	Coordenada X	Coordenada Y	Coordenada Z
204	736727,313	4709466,978	761,726
205	736730,154	4709470,124	761,686
206	736732,736	4709473,805	761,639
207	736734,974	4709477,548	761,591
208	736737,607	4709483,287	761,496
209	736739,408	4709489,223	761,334
210	736740,025	4709492,267	761,235
211	736740,764	4709497,642	761,020
212	736740,957	4709502,408	760,828
213	736740,801	4709505,946	760,687
214	736739,916	4709512,789	760,412
215	736745,556	4709513,226	760,567
216	736745,207	4709513,322	760,567
217	736745,009	4709513,035	760,614
218	736745,601	4709510,361	760,705
219	736746,146	4709506,757	760,825
220	736746,513	4709502,402	760,987
221	736746,593	4709498,449	761,110
222	736746,691	4709498,156	761,132
223	736746,989	4709498,128	761,104
224	736748,806	4709499,137	761,061
225	736750,652	4709499,886	761,002
226	736753,412	4709500,709	760,940
227	736753,649	4709500,914	760,962
228	736753,611	4709501,234	760,933
229	736751,639	4709503,544	760,869
230	736750,089	4709505,583	760,837
231	736748,155	4709508,727	760,713
232	736745,571	4709513,210	760,586
233	736745,294	4709513,067	760,664
234	736746,139	4709511,566	760,751
235	736745,713	4709511,302	760,728
236	736747,735	4709508,815	760,819
237	736746,447	4709507,193	760,884
238	736746,742	4709503,350	761,047
239	736746,865	4709500,156	761,146
240	736746,833	4709498,419	761,203
241	736747,660	4709498,867	761,163
242	736749,959	4709499,927	761,092
243	736751,830	4709500,593	761,080
244	736753,384	4709500,987	761,064



245	736751,146	4709503,681	761,012
246	736749,359	4709506,122	760,926
247	736746,561	4709509,732	760,863
Nombre	Coordenada X	Coordenada Y	Coordenada Z
248	736751,653	4709502,784	761,041
249	736751,645	4709500,785	761,122
250	736743,255	4709500,440	760,990
251	736743,232	4709499,642	761,015
252	736743,510	4709497,476	761,095
253	736742,807	4709497,514	761,091
254	736742,511	4709496,947	761,102
255	736743,729	4709496,887	761,118
256	736743,149	4709496,903	761,119
257	736742,505	4709496,922	761,129
258	736745,097	4709496,235	761,169
259	736745,093	4709495,672	761,165
260	736744,349	4709495,023	761,201
261	736744,307	4709495,522	761,191
262	736740,759	4709491,963	761,263
263	736740,694	4709492,412	761,247
264	736741,468	4709493,070	761,244
265	736741,517	4709492,582	761,260
266	736750,978	4709489,598	761,472
267	736752,447	4709490,150	761,420
268	736745,689	4709481,530	761,830
269	736747,922	4709474,149	761,985
270	736748,922	4709472,886	761,972
271	736755,199	4709468,168	761,895
272	736766,337	4709472,684	761,605
273	736767,788	4709473,322	761,457
274	736769,695	4709475,586	761,277
275	736767,725	4709461,134	761,434
276	736767,536	4709458,829	761,416
277	736770,314	4709455,782	761,347
278	736773,846	4709461,018	761,150
279	736773,210	4709464,481	761,161
280	736774,434	4709464,567	761,147
281	736771,742	4709464,814	761,238
282	736771,603	4709465,293	761,239
283	736776,786	4709469,411	761,025
284	736776,779	4709469,944	761,038
285	736780,243	4709440,939	760,731
286	736779,012	4709444,865	760,792

287	736777,600	4709450,540	760,882
288	736776,305	4709458,865	761,020
289	736776,351	4709464,877	761,045
Nombre	Coordenada X	Coordenada Y	Coordenada Z
290	736776,765	4709468,420	761,050
291	736777,432	4709472,565	760,996
292	736777,879	4709476,958	760,963
293	736777,765	4709482,548	760,899
294	736776,695	4709487,388	760,847
295	736774,493	4709491,626	760,803
296	736769,158	4709496,779	760,830
297	736764,029	4709500,101	760,837
298	736759,794	4709503,175	760,843
299	736755,768	4709507,150	760,794
300	736738,685	4709474,589	761,701
301	736736,663	4709471,737	761,743
302	736734,026	4709468,500	761,751
303	736731,200	4709465,505	761,778
304	736728,898	4709463,595	761,800
305	736725,506	4709461,121	761,830
306	736723,596	4709459,782	761,818
307	736727,301	4709462,142	761,790
308	736731,515	4709464,398	761,758
309	736735,437	4709465,981	761,769
310	736739,329	4709466,980	761,749
311	736742,532	4709467,326	761,760
312	736741,797	4709468,264	761,758
313	736741,032	4709469,473	761,758
314	736740,254	4709470,857	761,754
315	736739,333	4709472,738	761,737
316	736738,683	4709474,561	761,711
317	736738,295	4709472,205	761,737
318	736738,028	4709472,041	761,719
319	736737,192	4709471,018	761,736
320	736736,349	4709469,849	761,751
321	736735,500	4709468,821	761,766
322	736734,170	4709467,344	761,770
323	736734,030	4709466,979	761,794
324	736734,450	4709466,712	761,798
325	736735,663	4709467,068	761,774
326	736737,069	4709467,383	761,748
327	736738,469	4709467,725	761,776
328	736740,105	4709467,975	761,754

329	736740,404	4709468,111	761,773
330	736740,429	4709468,473	761,763
331	736739,977	4709469,381	761,742
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
332	736739,159	4709470,679	761,740
333	736738,633	4709471,899	761,723
334	736738,366	4709472,152	761,738
335	736738,055	4709472,005	761,737
336	736738,321	4709471,878	761,810
337	736737,178	4709470,535	761,849
338	736735,794	4709468,740	761,868
339	736734,278	4709467,121	761,846
340	736734,754	4709467,102	761,863
341	736736,343	4709467,497	761,868
342	736737,836	4709467,894	761,861
343	736740,120	4709468,290	761,850
344	736739,654	4709469,136	761,839
345	736739,002	4709470,431	761,818
346	736738,348	4709471,897	761,800
347	736737,899	4709471,405	761,843
348	736737,459	4709470,287	761,897
349	736738,634	4709470,259	761,896
350	736736,492	4709468,389	761,941
351	736735,026	4709546,813	759,314
352	736688,917	4709582,745	759,455
353	736697,817	4709574,947	759,233
354	736705,742	4709567,581	759,081
355	736716,401	4709556,160	759,049
356	736724,719	4709544,671	759,139
357	736730,263	4709535,254	759,417
358	736737,505	4709517,336	760,104
359	736739,594	4709502,521	760,700
360	736738,702	4709492,934	760,944
361	736735,596	4709481,294	761,517
362	736726,240	4709467,055	761,705
363	736731,508	4709459,448	761,663
364	736747,885	4709460,849	761,435
365	736759,262	4709456,148	761,028
366	736768,255	4709445,147	760,765
367	736773,799	4709433,264	760,642
368	736779,846	4709416,880	760,579
369	736787,093	4709398,049	760,361

370	736792,313	4709387,004	760,229
371	736800,716	4709373,536	760,015
372	736813,571	4709357,635	759,899
373	736832,793	4709336,711	760,388
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
374	736827,683	4709341,304	760,105
375	736825,856	4709342,862	760,049
376	736822,233	4709346,732	759,993
377	736823,120	4709345,557	760,050
378	736823,860	4709345,633	759,926
379	736832,610	4709347,724	760,100
380	736835,818	4709344,605	760,058
381	736810,365	4709374,228	759,513
382	736806,608	4709382,145	759,069
383	736806,666	4709382,133	759,245
384	736806,959	4709382,209	759,229
385	736806,980	4709382,431	759,247
386	736806,402	4709383,031	759,319
387	736805,570	4709386,534	759,538
388	736805,086	4709389,372	759,722
389	736804,736	4709389,476	758,955
390	736802,323	4709390,609	759,136
391	736799,251	4709395,705	759,422
392	736802,548	4709392,189	759,188
393	736802,982	4709393,074	758,893
394	736804,075	4709392,012	758,916
395	736793,474	4709410,601	759,540
396	736792,614	4709412,865	759,530
397	736792,965	4709412,729	759,485
398	736793,680	4709410,897	759,467
399	736795,411	4709411,197	758,288
400	736795,295	4709411,422	758,233
401	736796,108	4709411,510	758,237
402	736795,763	4709411,628	758,267
403	736795,177	4709413,509	758,253
404	736795,267	4709413,781	758,324
405	736794,688	4709413,303	758,224
406	736795,030	4709413,418	757,457
407	736795,674	4709411,652	757,215
408	736794,987	4709412,450	757,271
409	736792,790	4709414,106	759,493
410	736792,129	4709417,378	759,823

411	736788,796	4709423,200	760,120
412	736780,018	4709449,928	760,653
413	736778,742	4709457,797	760,826
414	736778,416	4709458,446	760,794
415	736779,227	4709468,519	760,753
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
416	736738,093	4709497,341	760,673
417	736736,133	4709511,798	759,659
418	736735,384	4709505,756	759,076
419	736733,790	4709500,377	758,634
420	736732,436	4709495,291	758,583
421	736730,232	4709491,963	758,152
422	736725,647	4709484,455	757,371
423	736722,139	4709479,530	756,832
424	736719,382	4709474,141	756,889
425	736718,867	4709468,891	757,076
426	736719,221	4709465,375	757,024
427	736728,270	4709453,003	757,140
428	736732,153	4709451,087	756,995
429	736734,609	4709450,340	756,910
430	736738,422	4709448,256	756,909
431	736742,044	4709444,530	756,697
432	736745,657	4709440,310	756,814
433	736750,516	4709436,509	757,085
434	736757,893	4709427,980	757,708
435	736761,630	4709422,796	757,817
436	736765,883	4709418,467	757,972
437	736770,125	4709411,589	757,726
438	736772,373	4709408,489	757,437
439	736805,047	4709334,253	757,935
440	736802,431	4709337,217	757,882
441	736801,811	4709339,917	757,968
442	736801,414	4709341,224	757,892
443	736800,632	4709342,008	757,639
444	736799,098	4709343,189	757,056
445	736796,830	4709344,975	756,248
446	736794,652	4709347,410	755,505
447	736793,226	4709349,901	754,990
448	736793,046	4709350,128	754,967
449	736793,120	4709349,024	754,884
450	736793,409	4709346,811	754,811
451	736794,654	4709343,221	754,664
452	736795,625	4709338,941	754,348

453	736796,492	4709336,776	754,257
454	736801,914	4709328,890	754,371
455	736806,970	4709323,757	754,497
456	736801,269	4709320,172	754,048
457	736797,233	4709327,207	754,023
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
458	736793,345	4709334,766	754,127
459	736793,366	4709336,989	754,129
460	736793,408	4709338,881	754,164
461	736792,378	4709342,641	754,447
462	736789,823	4709348,755	754,573
463	736789,455	4709355,447	754,447
464	736793,938	4709356,616	754,849
465	736793,258	4709361,769	755,161
466	736792,051	4709366,496	755,384
467	736789,922	4709364,791	754,818
468	736790,877	4709361,845	754,688
469	736792,222	4709359,569	754,610
470	736791,663	4709366,408	755,287
471	736788,433	4709366,923	754,320
472	736789,329	4709370,551	754,832
473	736788,592	4709371,542	754,739
474	736785,281	4709374,497	754,084
475	736784,274	4709373,292	753,960
476	736783,294	4709372,684	753,953
477	736784,354	4709370,132	754,358
478	736781,079	4709370,747	754,015
479	736777,001	4709382,445	754,097
480	736778,186	4709382,888	754,152
481	736779,866	4709384,261	754,416
482	736777,932	4709388,454	754,682
483	736774,070	4709395,511	754,792
484	736771,202	4709401,531	755,343
485	736773,908	4709402,523	756,223
486	736776,010	4709403,428	756,712
487	736774,805	4709403,985	756,130
488	736773,374	4709403,168	755,720
489	736771,368	4709402,138	755,294
490	736770,220	4709401,890	755,110
491	736770,682	4709403,336	755,292
492	736772,741	4709404,753	755,788
493	736774,884	4709406,168	756,424
494	736775,386	4709406,068	756,475

495	736775,249	4709406,283	756,576
496	736776,057	4709404,395	756,449
497	736776,108	4709404,172	756,480
498	736774,461	4709406,689	756,805
499	736773,184	4709406,520	756,788
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
500	736771,131	4709406,200	756,443
501	736769,155	4709405,860	756,204
502	736768,737	4709407,228	756,509
503	736768,353	4709409,548	756,942
504	736765,509	4709414,946	757,250
505	736763,314	4709417,299	757,239
506	736757,593	4709426,749	757,476
507	736758,244	4709427,880	757,799
508	736759,167	4709426,050	757,834
509	736760,422	4709426,504	758,230
510	736762,758	4709425,805	758,636
511	736764,083	4709423,006	758,447
512	736767,909	4709419,288	758,519
513	736768,417	4709414,554	757,878
514	736769,680	4709411,631	757,649
515	736769,678	4709411,623	757,652
516	736771,940	4709411,194	758,062
517	736774,507	4709412,682	758,822
518	736776,694	4709411,360	759,188
519	736778,622	4709409,207	759,587
520	736779,343	4709409,522	760,015
521	736778,708	4709412,931	760,124
522	736781,016	4709406,935	760,128
523	736778,144	4709404,704	758,572
524	736778,423	4709404,814	758,567
525	736777,244	4709406,990	758,529
526	736777,523	4709407,100	758,589
527	736769,132	4709402,284	754,986
528	736766,016	4709403,170	754,873
529	736766,164	4709405,435	755,389
530	736763,074	4709411,639	755,668
531	736759,880	4709413,779	755,185
532	736759,121	4709417,080	755,837
533	736756,350	4709418,768	755,420
534	736757,355	4709421,042	756,191
535	736752,904	4709422,527	755,132

536	736751,088	4709425,497	754,990
537	736752,475	4709427,002	755,879
538	736750,066	4709431,292	756,010
539	736746,838	4709432,210	755,387
540	736746,314	4709436,560	756,100
541	736748,221	4709438,773	756,917
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
542	736752,532	4709432,246	756,888
543	736754,316	4709426,757	756,564
544	736751,938	4709422,165	754,776
545	736745,686	4709529,095	759,495
546	736745,551	4709529,008	759,521
547	736744,558	4709531,363	759,476
548	736744,429	4709531,304	759,508
549	736746,731	4709532,149	758,429
550	736746,782	4709532,309	758,441
551	736747,902	4709530,407	758,450
552	736747,621	4709530,363	758,415
553	736746,721	4709529,878	758,394
554	736712,059	4709512,731	758,053
555	736711,793	4709512,584	758,026
556	736710,933	4709514,907	758,032
557	736710,696	4709514,800	757,999
558	736709,858	4709511,786	755,652
559	736708,880	4709513,787	755,698
560	736711,620	4709512,647	755,763
561	736710,661	4709514,533	755,773
562	736691,824	4709578,450	759,023
563	736689,528	4709580,093	758,869
564	736687,248	4709579,703	758,413
565	736688,203	4709576,139	757,770
566	736686,947	4709574,709	756,878
567	736688,382	4709571,896	756,999
568	736690,863	4709571,484	757,846
569	736694,328	4709571,136	758,313
570	736696,054	4709573,182	758,831
571	736695,670	4709569,110	758,278
572	736692,929	4709569,067	757,991
573	736695,684	4709563,561	757,914
574	736700,139	4709564,821	758,329
575	736705,295	4709564,243	758,735
576	736708,503	4709561,776	758,779

577	736703,938	4709557,719	758,316
578	736698,928	4709554,538	757,969
579	736699,583	4709549,886	758,045
580	736704,562	4709550,482	758,166
581	736709,346	4709553,701	758,412
582	736715,541	4709553,901	758,699
583	736717,779	4709550,140	758,672
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
584	736712,154	4709547,167	758,277
585	736707,744	4709543,854	758,160
586	736704,054	4709540,477	758,116
587	736705,561	4709535,688	757,912
588	736714,307	4709539,750	758,102
589	736718,401	4709541,476	758,341
590	736722,889	4709541,873	758,773
591	736725,490	4709537,727	758,779
592	736720,607	4709535,014	758,339
593	736715,967	4709533,226	758,001
594	736711,085	4709530,588	757,754
595	736710,053	4709524,360	758,108
596	736716,443	4709523,695	758,412
597	736721,466	4709528,395	758,463
598	736728,890	4709530,346	758,884
599	736732,539	4709524,801	759,262
600	736727,598	4709522,653	758,692
601	736721,368	4709520,106	758,549
602	736715,846	4709518,773	758,392
603	736713,300	4709514,590	758,098
604	736721,315	4709514,689	758,303
605	736729,650	4709515,115	758,762
606	736735,675	4709513,556	759,641
607	736731,936	4709509,236	758,978
608	736724,563	4709507,576	758,252
609	736716,633	4709507,026	757,514
610	736712,560	4709502,510	757,228
611	736717,628	4709499,642	757,425
612	736724,836	4709501,987	757,939
613	736731,900	4709505,739	758,737
614	736734,800	4709506,835	758,997
615	736731,287	4709499,683	758,274
616	736725,458	4709497,578	757,666
617	736719,526	4709495,359	757,315
618	736720,129	4709491,670	756,779

619	736721,299	4709487,752	756,377
620	736718,398	4709484,513	755,845
621	736714,528	4709484,518	755,534
622	736713,337	4709479,581	754,971
623	736712,501	4709475,813	754,579
624	736709,692	4709476,998	754,160
625	736711,767	4709471,216	754,066
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
626	736707,777	4709474,746	753,706
627	736707,769	4709478,999	754,074
628	736711,319	4709483,638	755,759
629	736712,174	4709495,972	757,163
630	736710,356	4709500,868	757,109
631	736710,125	4709503,792	756,998
632	736713,916	4709508,050	757,366
633	736712,645	4709511,924	757,654
634	736710,361	4709516,966	757,784
635	736706,116	4709520,709	757,263
636	736706,803	4709525,903	757,624
637	736703,514	4709534,476	757,819
638	736701,020	4709540,664	757,722
639	736696,714	4709550,151	757,842
640	736693,116	4709562,581	757,656
641	736690,610	4709571,311	757,729
642	736688,395	4709578,060	758,224
643	736686,284	4709582,906	758,713
644	736698,604	4709572,949	759,112
645	736695,548	4709571,184	758,480
646	736725,351	4709542,178	759,169
647	736723,320	4709487,962	756,647
648	736720,456	4709484,449	756,046
649	736717,229	4709480,926	755,593
650	736714,729	4709477,325	755,069
651	736713,857	4709471,197	754,229
652	736713,618	4709466,870	753,610
653	736714,312	4709464,552	753,279
654	736705,494	4709471,695	752,255
655	736761,849	4709504,206	760,738
656	736762,506	4709503,834	760,754
657	736751,124	4709518,547	760,263
658	736780,240	4709484,218	760,925
659	736779,793	4709484,831	761,109
660	736778,405	4709458,512	760,777



661	736778,769	4709457,805	760,830
662	736786,271	4709463,832	759,951
663	736780,570	4709462,280	760,514
664	736783,511	4709456,568	760,118
665	736785,401	4709446,432	759,961
666	736787,730	4709432,206	760,131
667	736791,509	4709423,815	759,720
Nombre	Coordenada X	Coordenada Y	Coordenada Z
668	736792,028	4709418,397	759,836
669	736795,517	4709416,513	758,528
670	736793,319	4709414,898	759,396
671	736788,227	4709426,563	760,131
672	736784,099	4709437,751	760,389
673	736768,155	4709480,115	761,289
674	736766,344	4709483,151	761,297
675	736763,819	4709486,744	761,332
676	736759,264	4709488,920	761,299
677	736754,520	4709488,755	761,394
678	736750,341	4709487,181	761,585
679	736748,107	4709483,213	761,763
680	736748,537	4709477,912	761,943
681	736751,261	4709472,645	761,925
682	736755,654	4709470,734	761,947
683	736759,525	4709471,663	761,948
684	736764,176	4709474,436	761,758
685	736763,023	4709475,706	761,850
686	736760,616	4709475,888	762,061
687	736757,870	4709476,571	762,050
688	736754,276	4709478,178	761,975
689	736753,118	4709480,912	761,969
690	736754,762	4709484,458	761,670
691	736758,312	4709483,022	761,935
692	736760,905	4709480,336	761,972
693	736760,998	4709475,790	762,025
694	736759,339	4709476,599	762,128
695	736756,649	4709478,666	762,024
696	736753,598	4709480,698	761,971
697	736753,313	4709482,564	761,849
698	736759,362	4709479,962	762,051
699	736760,591	4709479,210	761,999
700	736761,806	4709478,243	761,976
701	736772,578	4709483,395	760,964

702	736755,899	4709500,113	760,952
703	736751,875	4709504,743	760,842
704	736747,567	4709511,529	760,619
705	736737,588	4709531,566	759,831
706	736751,137	4709493,516	761,177
707	736751,983	4709493,882	761,159
708	736737,520	4709531,680	759,837
709	736732,226	4709541,431	759,475
Nombre	Coordenada X	Coordenada Y	Coordenada Z
710	736725,130	4709551,945	759,196
711	736709,610	4709568,981	759,245
712	736699,227	4709578,122	759,369
713	736688,328	4709587,583	759,493
714	736676,178	4709599,525	759,856
715	736676,854	4709604,128	759,838
716	736686,219	4709593,281	759,518
717	736700,224	4709581,173	759,388
718	736711,768	4709571,592	759,255
719	736724,627	4709558,199	759,337
720	736735,495	4709542,750	759,607
721	736743,460	4709527,847	760,077
722	736751,260	4709513,555	760,559
723	736762,971	4709500,781	760,834
724	736762,852	4709502,075	760,844
725	736755,473	4709509,027	760,720
726	736748,312	4709520,503	760,293
727	736741,762	4709533,547	759,863
728	736733,859	4709547,669	759,474
729	736724,452	4709559,495	759,304
730	736712,752	4709571,194	759,201
731	736698,065	4709583,377	759,357
732	736685,269	4709594,590	759,649
733	736671,039	4709600,423	760,060
734	736676,951	4709604,653	759,800
735	736681,226	4709589,830	759,629
736	736689,041	4709582,700	759,472
737	736700,152	4709572,937	759,272
738	736712,672	4709560,692	759,070
739	736723,529	4709546,759	759,171
740	736732,782	4709530,578	759,660
741	736737,884	4709516,493	760,239
742	736739,719	4709503,298	760,752

743	736738,633	4709490,495	761,281
744	736739,695	4709490,394	761,304
745	736740,858	4709499,539	760,937
746	736749,516	4709498,438	761,046
747	736745,469	4709495,917	761,175
748	736745,203	4709506,457	760,815
749	736740,457	4709509,378	760,570
750	736743,553	4709515,386	760,431
751	736737,161	4709522,444	760,033
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
752	736739,460	4709526,991	760,008
753	736732,109	4709534,506	759,547
754	736722,507	4709549,579	759,137
755	736710,772	4709563,065	759,075
756	736695,548	4709577,862	759,371
757	736683,034	4709588,808	759,562
758	736671,347	4709600,697	760,071
759	736681,059	4709600,393	759,819
760	736688,720	4709593,303	759,545
761	736699,484	4709584,080	759,392
762	736710,745	4709574,783	759,301
763	736723,939	4709562,544	759,069
764	736736,536	4709549,790	758,919
765	736744,901	4709540,117	758,649
766	736752,845	4709532,231	758,837
767	736759,545	4709524,060	758,724
768	736766,728	4709512,998	759,061
769	736772,558	4709502,368	760,161
770	736736,616	4709549,223	758,708
771	736736,399	4709549,544	758,913
772	736729,337	4709556,742	758,873
773	736729,271	4709556,945	759,100
774	736717,511	4709568,514	758,973
775	736717,439	4709568,615	759,211
776	736707,075	4709577,400	759,110
777	736707,101	4709577,431	759,323
778	736695,588	4709586,904	759,164
779	736695,587	4709586,994	759,354
780	736686,689	4709594,593	759,330
781	736686,712	4709594,595	759,580
782	736678,943	4709602,628	759,671
783	736678,989	4709602,648	759,918
784	736678,595	4709592,101	759,741

785	736678,288	4709591,607	759,688
786	736688,822	4709582,744	759,452
787	736688,475	4709582,311	759,404
788	736704,231	4709567,325	758,911
789	736704,579	4709566,664	759,013
790	736724,990	4709541,768	759,117
791	736725,618	4709541,448	759,068
792	736738,306	4709512,587	760,188
793	736738,255	4709511,766	760,220
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
794	736737,446	4709488,636	761,162
795	736737,152	4709487,710	761,121
796	736737,457	4709488,615	761,154
797	736726,857	4709468,240	761,573
798	736726,379	4709469,075	761,592
799	736733,476	4709478,445	761,434
800	736726,075	4709468,209	761,081
801	736726,195	4709471,014	761,112
802	736727,934	4709475,103	760,913
803	736730,228	4709479,884	760,725
804	736733,174	4709485,733	760,649
805	736735,092	4709491,590	760,380
806	736736,938	4709496,875	760,338
807	736738,304	4709502,144	760,431
808	736738,155	4709509,541	760,151
809	736725,460	4709489,211	757,220
810	736723,096	4709485,158	757,124
811	736718,749	4709479,840	756,499
812	736715,798	4709474,068	756,720
813	736715,441	4709466,449	756,907
814	736734,598	4709447,188	756,185
815	736730,589	4709445,539	756,536
816	736727,175	4709446,361	756,759
817	736723,950	4709449,493	756,860
818	736728,182	4709453,437	757,147
819	736733,114	4709450,964	757,065
820	736736,102	4709446,241	755,346
821	736750,636	4709441,439	758,168
822	736756,081	4709436,722	758,553
823	736762,261	4709430,469	758,936
824	736767,891	4709422,657	759,014
825	736772,244	4709418,320	759,180
826	736776,018	4709413,295	759,347

827	736778,439	4709414,089	760,201
828	736775,915	4709420,941	760,239
829	736772,843	4709423,707	759,790
830	736773,137	4709428,953	760,273
831	736768,402	4709432,217	759,686
832	736769,693	4709438,621	760,445
833	736763,556	4709442,572	759,863
834	736763,889	4709448,388	760,438
835	736757,585	4709448,401	759,934
Nombre	Coordenada X	Coordenada Y	Coordenada Z
836	736758,574	4709453,924	760,626
837	736751,960	4709453,330	760,173
838	736750,578	4709457,443	760,899
839	736745,030	4709456,164	760,511
840	736740,021	4709458,303	760,822
841	736743,611	4709460,918	761,273
842	736744,270	4709460,630	761,336
843	736758,793	4709455,636	761,008
844	736763,560	4709451,095	760,833
845	736758,516	4709456,154	760,977
846	736774,743	4709427,937	760,463
847	736774,305	4709428,364	760,515
848	736784,093	4709401,623	760,347
849	736784,261	4709402,497	760,204
850	736799,302	4709373,930	759,764
851	736798,580	4709374,307	759,908
852	736804,328	4709345,917	758,286
853	736799,286	4709348,725	758,486
854	736798,235	4709352,958	758,642
855	736799,719	4709357,911	759,157
856	736799,961	4709363,852	758,923
857	736797,522	4709367,507	758,821
858	736795,936	4709372,715	759,254
859	736793,331	4709378,257	759,438
860	736790,321	4709383,851	759,449
861	736786,220	4709391,827	759,721
862	736783,865	4709397,285	759,917
863	736781,691	4709403,879	760,058
864	736780,047	4709405,306	759,569
865	736797,913	4709472,165	769,269
866	736797,715	4709468,749	769,076
867	736793,152	4709472,411	769,513

868	736792,985	4709469,175	769,213
869	736774,171	4709510,947	771,158
870	736793,973	4709465,838	769,628
871	736796,531	4709456,040	769,459
872	736798,760	4709447,648	769,069
873	736803,577	4709433,386	768,451
874	736807,606	4709419,537	768,121
875	736809,926	4709411,521	767,931
876	736815,096	4709396,213	766,999
877	736825,024	4709386,044	765,972
Nombre	Coordenada X	Coordenada Y	Coordenada Z
878	736829,258	4709376,084	765,291
879	736833,451	4709367,144	764,678
880	736834,590	4709367,261	764,819
881	736837,932	4709369,657	764,902
882	736831,331	4709375,149	765,368
883	736833,846	4709379,232	765,525
884	736825,711	4709386,893	766,093
885	736827,240	4709392,260	766,449
886	736816,982	4709407,426	767,477
887	736820,980	4709410,998	767,510
888	736818,260	4709402,893	767,379
889	736816,231	4709402,245	767,388
890	736814,094	4709401,538	767,415
891	736814,905	4709401,465	767,435
892	736810,028	4709414,552	768,027
893	736810,048	4709414,530	768,030
894	736813,908	4709417,342	767,938
895	736818,354	4709419,377	767,915
896	736805,138	4709430,739	768,630
897	736800,063	4709447,082	769,392
898	736804,421	4709449,082	769,405
899	736803,253	4709453,050	769,630
900	736803,096	4709453,219	769,725
901	736801,227	4709452,575	769,765
902	736798,508	4709451,819	769,753
903	736799,035	4709452,342	769,749
904	736803,103	4709453,221	769,716
905	736801,296	4709458,950	770,017
906	736802,465	4709463,059	770,283
907	736806,805	4709468,599	770,752
908	736810,565	4709463,897	770,540

909	736808,198	4709460,812	770,203
910	736807,441	4709456,360	769,787
911	736843,551	4709354,607	763,866
912	736838,386	4709357,742	764,158
913	736773,440	4709393,293	754,512
914	736769,971	4709394,413	754,389
915	736770,108	4709395,479	754,435
916	736826,198	4709352,774	759,790
917	736820,061	4709360,006	759,610
918	736807,986	4709376,827	759,480
919	736802,407	4709386,421	759,610
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
920	736775,593	4709499,765	759,800
921	736778,358	4709494,036	759,800
922	736781,934	4709484,707	759,840
923	736784,825	4709474,913	759,740
924	736791,222	4709447,760	760,050
925	736795,271	4709433,973	760,108
926	736798,678	4709417,067	759,194
927	736800,057	4709406,085	759,419
928	736796,441	4709319,438	750,783
929	736791,856	4709325,320	750,803
930	736786,212	4709332,133	750,803
931	736782,485	4709339,454	750,823
932	736773,318	4709342,839	751,123
933	736760,746	4709362,560	751,493
934	736735,581	4709418,878	752,183
935	736746,302	4709392,398	751,923
936	736722,588	4709443,974	752,253
937	736701,165	4709481,581	752,653
938	736692,384	4709506,393	753,163
939	736689,304	4709528,230	753,590
940	736684,674	4709537,719	753,795
941	736682,800	4709551,950	754,073
942	736676,190	4709569,949	754,445
943	736667,579	4709582,594	754,741

## 5.7. TAQUIMÉTRICO EN EL BARRANCO DE GUARGAS

### 5.7.1. Sistema de referencia: ED50 UTM HUSO 30

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1	744589,578	4707524,331	685,897
2	744585,063	4707527,983	685,720
3	744584,543	4707527,011	685,824
4	744585,849	4707526,937	685,828
5	744585,817	4707526,678	685,852
6	744585,166	4707520,542	685,806
7	744585,759	4707520,008	685,835
8	744571,193	4707518,117	685,816
9	744571,046	4707519,023	685,841
10	744571,040	4707519,285	685,876
11	744571,003	4707519,510	685,881
12	744566,947	4707524,711	685,855
13	744566,847	4707524,940	685,833
14	744566,720	4707525,022	685,797
15	744566,574	4707525,938	685,784
16	744566,560	4707525,037	685,796
17	744523,213	4707521,247	685,847
18	744523,285	4707520,786	685,935
19	744524,309	4707520,880	685,881
20	744524,419	4707521,254	685,817
21	744524,325	4707520,184	685,948
22	744524,341	4707520,059	685,961
23	744521,975	4707519,620	686,041
24	744522,040	4707519,777	686,035
25	744518,932	4707519,109	686,154
26	744518,987	4707518,873	686,159
27	744515,703	4707517,869	686,317
28	744515,643	4707518,220	686,299
29	744511,075	4707516,290	686,566
30	744511,202	4707515,953	686,564
31	744508,262	4707514,085	686,674
32	744508,105	4707514,485	686,663
33	744504,529	4707511,254	686,849
34	744504,719	4707510,924	686,840
35	744501,841	4707507,260	686,962

36	744501,577	4707507,570	686,971
37	744499,736	4707504,266	687,093
38	744499,792	4707503,594	687,099
Nombre	Coordenada X	Coordenada Y	Coordenada Z
39	744498,579	4707500,516	687,213
40	744498,251	4707500,712	687,190
41	744497,075	4707496,491	687,321
42	744497,507	4707496,308	687,322
43	744496,878	4707491,081	687,457
44	744496,620	4707491,084	687,445
45	744525,522	4707513,968	685,819
46	744525,204	4707513,362	685,828
47	744524,135	4707513,264	685,714
48	744524,175	4707512,793	685,665
49	744525,169	4707513,370	685,818
50	744524,583	4707514,206	685,880
51	744524,474	4707514,338	685,890
52	744523,959	4707513,672	685,752
53	744521,333	4707513,164	685,792
54	744515,873	4707511,832	686,042
55	744515,470	4707511,535	686,053
56	744515,358	4707511,124	686,070
57	744515,866	4707509,278	686,088
58	744510,246	4707508,501	686,364
59	744508,770	4707506,826	686,439
60	744506,755	4707504,349	686,606
61	744503,788	4707498,891	686,909
62	744502,130	4707491,933	687,228
63	744501,976	4707488,301	687,364
64	744502,094	4707482,198	687,510
65	744502,518	4707471,812	687,840
66	744502,865	4707463,513	687,936
67	744497,848	4707459,687	688,109
68	744503,585	4707445,624	688,377
69	744498,641	4707439,913	688,559
70	744504,147	4707430,119	688,816
71	744504,527	4707420,167	689,049
72	744504,888	4707409,951	689,308
73	744499,960	4707408,024	689,362
74	744505,328	4707398,479	689,618
75	744505,752	4707387,251	689,902
76	744506,071	4707377,534	690,165



77	744506,074	4707367,985	690,437
78	744505,885	4707359,143	690,637
79	744505,264	4707352,206	690,728
80	744504,149	4707344,671	690,694
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
81	744502,981	4707338,934	690,634
82	744501,374	4707333,048	690,570
83	744500,145	4707329,138	690,528
84	744494,842	4707329,544	690,390
85	744497,319	4707321,074	690,423
86	744494,378	4707312,820	690,323
87	744490,025	4707300,611	690,124
88	744484,799	4707286,098	690,036
89	744480,571	4707274,328	689,974
90	744475,906	4707261,092	689,894
91	744469,311	4707242,191	689,865
92	744467,316	4707236,431	689,833
93	744464,757	4707229,141	689,806
94	744462,761	4707223,433	689,773
95	744459,829	4707215,814	689,722
96	744456,831	4707209,108	689,680
97	744454,785	4707205,049	689,644
98	744452,484	4707200,853	689,594
99	744449,569	4707196,065	689,522
100	744446,307	4707199,925	689,406
101	744552,598	4707268,766	676,454
102	744555,623	4707266,886	676,262
103	744558,924	4707264,538	676,080
104	744561,755	4707261,752	675,805
105	744563,629	4707258,212	675,576
106	744564,177	4707255,180	675,477
107	744564,662	4707251,816	675,218
108	744564,714	4707246,021	674,766
109	744564,633	4707241,612	674,579
110	744564,115	4707235,437	674,166
111	744564,706	4707228,991	673,705
112	744565,506	4707222,127	673,318
113	744566,864	4707214,730	672,956
114	744569,195	4707207,344	672,679
115	744569,745	4707200,081	672,300
116	744569,822	4707195,103	672,124
117	744566,000	4707169,896	671,051
118	744593,330	4707200,788	670,758

119	744571,004	4707193,089	671,958
120	744573,591	4707189,391	671,802
121	744578,845	4707187,769	671,095
122	744585,278	4707187,666	670,844
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
123	744590,364	4707187,825	670,605
124	744594,365	4707187,665	670,551
125	744597,831	4707187,228	670,381
126	744602,046	4707186,349	669,965
127	744604,762	4707184,636	668,943
128	744605,070	4707186,999	669,977
129	744602,350	4707188,972	670,036
130	744597,876	4707189,956	670,628
131	744592,856	4707192,356	670,857
132	744588,843	4707192,919	671,108
133	744583,800	4707194,877	671,273
134	744580,293	4707192,700	671,311
135	744576,992	4707192,018	671,465
136	744576,618	4707195,929	671,705
137	744573,178	4707197,981	672,015
138	744572,129	4707201,691	672,138
139	744571,855	4707205,138	672,190
140	744571,516	4707207,714	672,166
141	744574,589	4707206,717	672,033
142	744578,658	4707206,869	671,909
143	744579,768	4707202,690	671,701
144	744583,390	4707200,558	671,348
145	744587,844	4707199,238	671,077
146	744591,826	4707197,237	670,863
147	744596,675	4707194,869	670,528
148	744599,157	4707193,961	670,439
149	744603,881	4707190,974	670,272
150	744605,278	4707190,314	670,199
151	744608,959	4707191,618	669,896
152	744610,207	4707194,345	670,305
153	744608,205	4707197,281	670,363
154	744604,644	4707200,258	670,476
155	744599,356	4707202,586	670,770
156	744594,269	4707208,095	671,154
157	744589,328	4707210,581	671,438
158	744583,609	4707212,659	671,690
159	744579,917	4707211,979	671,958
160	744577,454	4707216,462	672,394

161	744572,884	4707215,110	672,413
162	744569,416	4707217,604	672,557
163	744569,225	4707221,855	672,818
164	744571,933	4707223,819	672,763
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
165	744576,708	4707223,093	672,558
166	744577,257	4707227,552	672,586
167	744571,591	4707231,255	672,969
168	744567,255	4707233,986	673,084
169	744571,950	4707236,184	673,087
170	744576,857	4707234,285	672,568
171	744579,650	4707230,867	672,566
172	744583,363	4707227,279	672,220
173	744588,443	4707225,284	671,902
174	744594,219	4707220,738	671,530
175	744599,206	4707217,774	671,301
176	744601,693	4707214,497	671,160
177	744605,962	4707211,352	670,755
178	744609,024	4707208,698	670,965
179	744608,989	4707202,849	670,678
180	744610,159	4707196,949	670,464
181	744612,034	4707194,544	670,301
182	744615,766	4707197,938	670,372
183	744616,987	4707199,634	670,405
184	744613,713	4707201,967	670,709
185	744608,897	4707204,972	670,772
186	744603,053	4707209,233	670,709
187	744595,643	4707213,149	671,352
188	744590,460	4707216,940	671,652
189	744586,056	4707222,421	672,123
190	744578,713	4707226,515	672,505
191	744575,996	4707230,961	672,757
192	744568,427	4707238,974	673,116
193	744569,715	4707243,334	672,922
194	744569,723	4707246,869	673,236
195	744572,253	4707242,568	672,946
196	744577,029	4707238,789	672,654
197	744582,975	4707239,274	672,518
198	744587,930	4707235,474	672,298
199	744593,733	4707233,951	671,963
200	744598,009	4707228,230	671,710
201	744603,407	4707230,751	671,860

202	744602,144	4707235,556	672,118
203	744599,531	4707241,186	672,417
204	744598,484	4707246,593	672,626
205	744595,500	4707249,757	672,549
206	744593,373	4707255,429	672,787
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
207	744590,751	4707261,428	673,006
208	744588,066	4707266,873	673,097
209	744585,054	4707273,520	673,428
210	744581,301	4707278,429	673,846
211	744576,737	4707283,269	674,393
212	744572,041	4707286,947	674,778
213	744568,394	4707289,656	675,136
214	744563,731	4707293,431	675,222
215	744565,057	4707298,488	675,060
216	744565,047	4707302,849	674,986
217	744563,706	4707307,093	675,134
218	744569,623	4707308,059	674,551
219	744573,908	4707310,434	674,253
220	744575,806	4707305,740	674,271
221	744579,289	4707300,973	674,194
222	744583,003	4707292,157	674,086
223	744584,395	4707283,199	673,815
224	744591,313	4707274,792	673,313
225	744595,096	4707265,633	672,980
226	744628,909	4707240,482	670,322
227	744635,115	4707239,179	671,075
228	744638,426	4707236,010	671,136
229	744639,466	4707232,141	670,688
230	744636,180	4707229,264	670,445
231	744637,323	4707225,513	670,318
232	744642,354	4707225,972	670,422
233	744641,754	4707222,445	670,139
234	744646,074	4707227,726	670,194
235	744646,228	4707231,005	670,384
236	744648,243	4707230,844	670,653
237	744650,875	4707229,617	670,171
238	744652,917	4707227,560	670,437
239	744652,990	4707227,628	670,441
240	744652,148	4707224,707	670,156
241	744653,989	4707222,721	670,113
242	744650,701	4707223,537	670,123

243	744658,449	4707224,763	670,002
244	744658,550	4707227,122	670,249
245	744660,566	4707225,212	670,071
246	744658,995	4707223,906	670,050
247	744654,763	4707221,148	669,948
248	744647,136	4707217,621	669,981
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
249	744643,804	4707218,203	670,012
250	744639,438	4707216,742	669,990
251	744636,894	4707220,298	670,042
252	744641,712	4707224,154	670,190
253	744644,932	4707224,875	670,134
254	744642,553	4707227,266	670,616
255	744640,519	4707229,722	670,642
256	744638,738	4707232,331	670,836
257	744637,853	4707235,038	671,126
258	744634,949	4707238,910	671,106
259	744670,621	4707237,021	669,170
260	744667,109	4707238,210	669,133
261	744664,260	4707237,625	668,595
262	744661,941	4707240,903	668,797
263	744661,113	4707245,488	669,175
264	744657,526	4707249,146	669,273
265	744653,847	4707248,507	669,055
266	744649,902	4707249,704	669,038
267	744643,475	4707250,694	668,887
268	744640,019	4707254,184	668,957
269	744638,859	4707256,986	669,175
270	744638,054	4707260,478	669,351
271	744633,157	4707261,808	669,399
272	744629,506	4707263,920	669,696
273	744630,703	4707267,632	669,382
274	744626,603	4707269,017	669,655
275	744623,203	4707271,162	669,834
276	744623,521	4707273,976	669,519
277	744621,973	4707275,978	669,443
278	744619,451	4707275,480	669,755
279	744617,878	4707273,265	670,450
280	744616,177	4707276,307	670,268
281	744616,718	4707279,853	669,905
282	744615,671	4707282,153	670,177
283	744613,158	4707281,896	670,172
284	744611,725	4707285,244	670,508

285	744610,669	4707289,270	671,185
286	744608,025	4707295,897	671,692
287	744602,498	4707373,472	674,389
288	744603,013	4707368,358	674,317
289	744601,097	4707364,867	674,039
290	744600,344	4707361,024	673,871
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
291	744601,382	4707356,707	673,766
292	744601,540	4707352,052	673,564
293	744604,050	4707344,716	673,334
294	744606,870	4707339,697	673,162
295	744610,630	4707334,390	672,951
296	744613,391	4707331,640	672,997
297	744632,435	4707314,928	672,120
298	744636,749	4707311,783	672,203
299	744641,151	4707308,289	672,417
300	744646,870	4707303,813	672,146
301	744652,187	4707301,120	671,744
302	744660,610	4707300,826	671,523
303	744657,449	4707302,470	671,547
304	744655,174	4707305,032	671,633
305	744651,077	4707305,909	672,027
306	744651,469	4707309,195	671,934
307	744653,860	4707311,299	672,135
308	744655,079	4707312,384	672,050
309	744656,570	4707314,057	672,584
310	744654,090	4707316,214	672,675
311	744651,463	4707311,644	671,842
312	744647,366	4707309,548	672,199
313	744642,416	4707311,830	672,471
314	744643,189	4707316,094	672,413
315	744647,753	4707319,247	672,492
316	744651,125	4707323,237	672,510
317	744652,256	4707326,992	672,570
318	744646,003	4707328,935	672,604
319	744643,704	4707326,973	672,748
320	744642,048	4707323,744	672,840
321	744639,193	4707320,514	672,773
322	744636,650	4707316,897	672,992
323	744633,525	4707319,984	672,929
324	744632,614	4707322,989	673,078
325	744634,933	4707326,453	673,090
326	744638,995	4707329,275	673,011

327	744645,454	4707330,935	672,699
328	744652,351	4707328,541	672,557
329	744647,738	4707332,870	672,785
330	744643,280	4707329,526	672,578
331	744639,811	4707327,138	672,873
332	744635,251	4707325,667	673,065
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
333	744632,277	4707324,235	673,073
334	744628,250	4707326,997	673,165
335	744625,477	4707325,894	672,467
336	744622,071	4707323,625	672,317
337	744617,132	4707326,865	672,442
338	744617,528	4707330,624	672,629
339	744623,983	4707329,235	672,749
340	744627,185	4707332,734	673,505
341	744627,576	4707337,111	673,593
342	744629,093	4707339,686	673,241
343	744626,409	4707343,016	673,457
344	744623,281	4707345,537	673,671
345	744620,565	4707341,344	673,802
346	744617,700	4707338,146	673,198
347	744614,388	4707334,574	672,774
348	744611,966	4707336,627	672,896
349	744612,957	4707342,067	673,230
350	744617,780	4707343,802	673,660
351	744620,637	4707346,832	673,754
352	744618,544	4707349,502	673,758
353	744614,921	4707351,532	673,948
354	744613,343	4707348,629	673,753
355	744611,244	4707345,576	673,479
356	744606,331	4707345,480	673,401
357	744607,963	4707349,130	673,569
358	744608,710	4707352,013	673,756
359	744611,127	4707356,468	674,253
360	744606,433	4707356,162	673,860
361	744603,037	4707356,741	673,806
362	744602,863	4707360,552	673,865
363	744604,543	4707363,236	674,168
364	744606,918	4707364,856	674,358
365	744604,826	4707368,116	674,480
366	744620,713	4707397,269	674,688
367	744626,471	4707394,487	674,676

368	744631,970	4707394,902	674,751
369	744634,002	4707389,283	674,322
370	744645,666	4707381,143	674,084
371	744648,851	4707373,569	673,788
372	744653,466	4707371,866	673,731
373	744660,898	4707367,814	673,322
374	744664,586	4707362,339	673,302
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
375	744667,205	4707358,416	673,203
376	744674,983	4707360,085	672,981
377	744681,750	4707356,263	672,878
378	744687,114	4707350,415	672,487
379	744689,604	4707344,544	672,427
380	744690,237	4707336,141	672,365
381	744693,834	4707333,521	672,239
382	744698,290	4707338,566	672,079
383	744709,081	4707334,510	671,674
384	744710,819	4707328,518	671,570
385	744716,557	4707324,504	671,653
386	744715,575	4707315,506	671,313
387	744718,394	4707308,644	671,172
388	744728,671	4707332,715	672,109
389	744729,630	4707340,850	672,193
390	744727,437	4707346,593	672,306
391	744725,583	4707350,265	672,476
392	744720,763	4707355,159	672,776
393	744715,136	4707359,825	672,978
394	744712,438	4707365,320	673,154
395	744708,232	4707369,035	673,436
396	744701,349	4707369,618	673,671
397	744698,460	4707377,033	673,972
398	744690,771	4707378,314	673,921
399	744685,162	4707386,042	674,199
400	744685,217	4707389,925	674,351
401	744682,025	4707393,048	674,497
402	744677,112	4707399,050	674,851
403	744674,296	4707403,304	674,748
404	744673,242	4707408,677	674,977
405	744669,569	4707415,015	675,234
406	744663,707	4707421,099	675,571
407	744657,224	4707426,569	675,688
408	744653,963	4707433,212	675,954

409	744650,403	4707437,116	676,042
410	744647,880	4707441,695	676,393
411	744644,415	4707440,546	676,330
412	744639,853	4707442,593	676,464
413	744643,855	4707449,774	676,650
414	744637,739	4707453,147	676,914
415	744635,497	4707460,542	677,248
416	744633,700	4707467,758	677,488
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
417	744626,813	4707472,849	677,995
418	744623,283	4707474,647	678,044
419	744616,297	4707476,117	677,475
420	744610,110	4707478,539	677,572
421	744606,629	4707484,361	677,707
422	744625,615	4707455,429	677,179
423	744624,974	4707450,410	676,888
424	744624,959	4707445,259	676,698
425	744614,161	4707427,199	676,166
426	744612,933	4707434,127	676,393
427	744615,324	4707442,175	676,890
428	744616,749	4707449,360	677,196
429	744616,784	4707453,810	677,268
430	744615,199	4707460,537	677,016
431	744613,341	4707467,033	677,069
432	744586,874	4707501,309	677,949
433	744583,317	4707502,261	678,402
434	744578,871	4707508,673	678,789
435	744579,457	4707511,606	678,599
436	744579,441	4707511,630	678,615
437	744579,529	4707513,871	678,776
438	744573,443	4707515,255	679,549
439	744573,279	4707511,951	679,139
440	744575,788	4707509,895	678,960
441	744577,975	4707508,040	678,703
442	744574,010	4707505,467	678,904
443	744571,837	4707503,906	678,327
444	744568,079	4707502,132	677,581
445	744564,241	4707502,494	677,614
446	744564,048	4707507,616	677,936
447	744564,702	4707511,137	678,190
448	744562,861	4707514,708	678,734
449	744560,272	4707511,084	678,383
450	744558,611	4707509,806	677,838

451	744558,605	4707501,385	677,771
452	744565,298	4707502,339	677,612
453	744565,926	4707496,626	677,571
454	744571,080	4707493,686	677,539
455	744576,111	4707492,578	678,091
456	744581,405	4707490,380	678,057
457	744584,853	4707487,361	677,861
458	744583,829	4707482,758	677,860
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
459	744577,408	4707483,308	678,019
460	744574,250	4707486,232	677,643
461	744571,015	4707487,685	677,232
462	744564,473	4707488,812	677,392
463	744557,475	4707485,713	677,337
464	744562,810	4707481,632	677,415
465	744568,024	4707479,893	676,981
466	744571,765	4707477,339	676,926
467	744571,872	4707474,925	676,806
468	744573,547	4707475,608	677,765
469	744576,819	4707473,516	677,556
470	744581,421	4707478,113	677,914
471	744585,982	4707475,163	677,611
472	744587,154	4707472,882	677,464
473	744591,018	4707470,446	677,331
474	744590,058	4707466,059	677,449
475	744586,084	4707465,768	677,072
476	744582,871	4707464,470	676,851
477	744580,484	4707462,894	677,106
478	744576,348	4707461,821	677,214
479	744573,295	4707461,127	677,164
480	744573,129	4707457,444	677,045
481	744571,541	4707457,844	676,243
482	744570,763	4707461,882	676,069
483	744566,695	4707464,669	676,643
484	744562,870	4707470,890	677,025
485	744565,166	4707463,330	676,592
486	744566,261	4707459,125	676,505
487	744570,962	4707460,914	676,095
488	744571,125	4707456,932	676,151
489	744573,755	4707458,670	677,048
490	744578,136	4707461,500	677,124
491	744581,186	4707459,143	677,141
492	744586,985	4707455,965	676,357



493	744591,041	4707454,913	676,525
494	744594,773	4707457,468	676,637
495	744601,839	4707458,538	676,543
496	744608,028	4707457,281	676,724
497	744609,995	4707449,668	676,135
498	744607,441	4707445,727	676,221
499	744603,411	4707443,755	675,865
500	744600,446	4707443,311	676,160
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
501	744596,711	4707441,144	676,170
502	744592,898	4707439,819	676,115
503	744588,643	4707439,977	676,162
504	744582,000	4707439,008	676,314
505	744579,798	4707437,502	676,255
506	744576,441	4707439,138	675,845
507	744574,790	4707444,226	676,017
508	744572,940	4707448,904	676,214
509	744569,074	4707452,904	675,858
510	744565,519	4707452,823	676,310
511	744562,840	4707449,820	676,165
512	744564,709	4707447,164	676,047
513	744567,610	4707443,471	675,587
514	744569,731	4707442,721	676,103
515	744572,534	4707439,259	676,029
516	744575,840	4707435,578	675,870
517	744578,877	4707436,010	675,871
518	744582,061	4707431,037	675,721
519	744584,292	4707426,358	675,503
520	744586,765	4707422,365	675,346
521	744588,249	4707422,800	675,849
522	744590,822	4707426,513	675,600
523	744590,700	4707433,109	675,843
524	744586,951	4707438,185	676,168
525	744591,596	4707434,295	675,731
526	744596,046	4707431,989	675,930
527	744598,584	4707430,553	675,905
528	744599,547	4707427,880	675,205
529	744601,212	4707425,342	675,361
530	744600,056	4707420,370	675,337
531	744595,562	4707418,994	675,205
532	744593,254	4707417,931	675,652
533	744597,807	4707415,285	675,322

534	744602,324	4707410,347	675,010
535	744603,427	4707408,354	675,102
536	744608,971	4707406,690	675,196
537	744611,956	4707404,130	675,172
538	744617,240	4707404,598	674,851
539	744621,537	4707398,655	674,772
540	744615,582	4707393,584	674,704
541	744617,067	4707389,048	674,601
542	744620,871	4707387,319	674,478
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
543	744625,764	4707385,631	674,251
544	744626,551	4707380,713	674,029
545	744449,135	4707205,434	689,450
546	744452,188	4707211,315	689,497
547	744455,082	4707217,786	689,548
548	744457,936	4707225,205	689,604
549	744461,186	4707234,482	689,674
550	744464,457	4707243,878	689,744
551	744467,756	4707253,335	689,816
552	744471,270	4707263,400	689,891
553	744475,729	4707276,051	689,986
554	744479,962	4707287,835	690,075
555	744485,187	4707302,344	690,185
556	744489,537	4707314,546	690,277
557	744492,474	4707322,787	690,339
558	744496,442	4707334,496	690,322
559	744497,979	4707340,125	690,247
560	744499,086	4707345,560	690,175
561	744500,158	4707352,811	690,079
562	744500,750	4707359,427	689,993
563	744500,935	4707368,039	689,881
564	744500,931	4707377,449	689,759
565	744500,616	4707387,070	689,634
566	744500,193	4707398,285	689,489
567	744478,369	4707266,371	684,800
568	744479,705	4707261,560	684,800
569	744481,494	4707256,911	684,800
570	744485,492	4707254,314	684,800
571	744490,466	4707253,894	684,800
572	744494,998	4707253,094	684,800
573	744490,463	4707251,147	684,800
574	744485,703	4707249,647	684,800

575	744486,440	4707245,451	684,800
576	744490,992	4707243,744	684,800
577	744495,987	4707243,771	684,800
578	744500,985	4707243,845	684,800
579	744505,917	4707244,615	684,800
580	744504,930	4707240,615	684,800
581	744502,108	4707236,494	684,800
582	744501,691	4707232,381	684,800
583	744528,891	4707357,073	684,800
584	744528,925	4707352,082	684,800
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
585	744528,880	4707347,085	684,800
586	744528,629	4707342,092	684,800
587	744527,289	4707337,308	684,800
588	744525,828	4707332,578	684,800
589	744526,961	4707327,773	684,800
590	744524,635	4707323,386	684,800
591	744522,450	4707318,910	684,800
592	744520,756	4707314,211	684,800
593	744519,318	4707309,423	684,800
594	744517,995	4707304,603	684,800
595	744516,532	4707299,823	684,800
596	744514,430	4707295,296	684,800
597	744512,587	4707290,649	684,800
598	744510,569	4707286,087	684,800
599	744509,067	4707281,339	684,800
600	744508,361	4707276,398	684,800
601	744506,031	4707272,887	684,800
602	744501,061	4707272,400	684,800
603	744496,212	4707271,243	684,800
604	744491,296	4707270,406	684,800
605	744486,406	4707269,396	684,800
606	744481,563	4707268,443	684,800
607	744556,734	4707335,777	678,800
608	744554,042	4707331,572	678,800
609	744551,983	4707327,040	678,800
610	744550,065	4707322,431	678,800
611	744547,438	4707318,227	678,800
612	744546,310	4707313,473	678,800
613	744545,617	4707308,565	678,800
614	744543,905	4707303,882	678,800
615	744542,254	4707299,166	678,800
616	744540,715	4707294,413	678,800

617	744539,268	4707289,637	678,800
618	744537,823	4707284,858	678,800
619	744535,186	4707280,640	678,800
620	744534,585	4707275,681	678,800
621	744533,916	4707270,736	678,800
622	744531,338	4707266,592	678,800
623	744526,374	4707266,261	678,800
624	744521,379	4707266,167	678,800
625	744516,859	4707265,261	678,800
626	744520,637	4707263,013	678,800
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
627	744525,618	4707262,630	678,800
628	744527,981	4707260,660	678,800
629	744549,347	4707342,916	679,800
630	744550,228	4707338,084	679,800
631	744552,336	4707333,833	679,800
632	744551,051	4707329,021	679,800
633	744549,089	4707324,453	679,800
634	744545,708	4707320,905	679,800
635	744542,402	4707317,212	679,800
636	744542,507	4707312,235	679,800
637	744542,782	4707307,262	679,800
638	744541,637	4707302,412	679,800
639	744539,164	4707298,100	679,800
640	744537,817	4707293,297	679,800
641	744536,824	4707288,422	679,800
642	744534,752	4707283,901	679,800
643	744532,168	4707279,732	679,800
644	744531,318	4707274,847	679,800
645	744531,331	4707269,857	679,800
646	744529,272	4707268,129	679,800
647	744524,338	4707267,499	679,800
648	744519,358	4707267,447	679,800
649	744514,393	4707266,907	679,800
650	744509,475	4707266,767	679,800
651	744509,179	4707263,378	679,800
652	744513,579	4707261,099	679,800
653	744518,508	4707260,416	679,800
654	744522,785	4707260,264	679,800
655	744521,759	4707255,736	679,800
656	744543,130	4707348,925	681,800
657	744543,466	4707343,945	681,800
658	744542,869	4707338,986	681,800

659	744542,416	4707334,007	681,800
660	744541,516	4707329,108	681,800
661	744539,071	4707324,811	681,800
662	744537,900	4707319,967	681,800
663	744537,502	4707314,996	681,800
664	744536,851	4707310,043	681,800
665	744535,638	4707305,216	681,800
666	744533,115	4707300,907	681,800
667	744531,439	4707296,213	681,800
668	744530,879	4707291,247	681,800
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
669	744528,981	4707286,667	681,800
670	744525,447	4707283,181	681,800
671	744524,092	4707278,446	681,800
672	744524,893	4707273,540	681,800
673	744523,410	4707270,045	681,800
674	744518,415	4707270,011	681,800
675	744513,416	4707270,034	681,800
676	744508,432	4707270,334	681,800
677	744503,618	4707269,333	681,800
678	744498,855	4707267,851	681,800
679	744494,977	4707264,958	681,800
680	744491,803	4707261,219	681,800
681	744486,878	4707261,316	681,800
682	744487,624	4707257,785	681,800
683	744492,017	4707255,569	681,800
684	744497,000	4707255,583	681,800
685	744501,899	4707256,552	681,800
686	744506,516	4707258,435	681,800
687	744511,110	4707259,005	681,800
688	744514,233	4707255,573	681,800
689	744512,919	4707250,808	681,800
690	744514,628	4707247,532	681,800
691	744535,642	4707353,844	682,800
692	744535,740	4707348,847	682,800
693	744535,834	4707343,853	682,800
694	744535,678	4707338,859	682,800
695	744535,847	4707333,862	682,800
696	744535,965	4707328,870	682,800
697	744535,474	4707323,899	682,800
698	744535,755	4707318,931	682,800
699	744535,934	4707313,948	682,800

700	744535,125	4707309,024	682,800
701	744533,184	4707304,443	682,800
702	744531,107	4707299,897	682,800
703	744529,811	4707295,072	682,800
704	744528,192	4707290,355	682,800
705	744525,373	4707286,297	682,800
706	744522,259	4707282,418	682,800
707	744522,146	4707277,475	682,800
708	744522,309	4707272,481	682,800
709	744518,317	4707271,212	682,800
710	744513,338	4707271,098	682,800
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
711	744508,376	4707270,885	682,800
712	744503,454	4707270,238	682,800
713	744498,560	4707269,282	682,800
714	744493,789	4707267,805	682,800
715	744489,418	4707265,480	682,800
716	744484,955	4707264,041	682,800
717	744480,781	4707263,774	682,800
718	744482,239	4707259,029	682,800
719	744485,495	4707255,429	682,800
720	744490,411	4707254,693	682,800
721	744495,405	4707254,695	682,800
722	744500,345	4707255,333	682,800
723	744505,323	4707255,423	682,800
724	744509,750	4707254,687	682,800
725	744510,163	4707249,764	682,800
726	744509,483	4707244,885	682,800
727	744557,749	4707334,796	677,800
728	744555,830	4707330,181	677,800
729	744553,609	4707325,705	677,800
730	744551,166	4707321,346	677,800
731	744549,050	4707316,832	677,800
732	744547,672	4707312,058	677,800
733	744546,975	4707307,113	677,800
734	744545,421	4707302,383	677,800
735	744543,369	4707297,829	677,800
736	744541,886	4707293,062	677,800
737	744540,856	4707288,173	677,800
738	744539,553	4707283,346	677,800
739	744537,695	4707278,760	677,800
740	744536,211	4707274,060	677,800

741	744535,631	4707269,108	677,800
742	744532,125	4707265,803	677,800
743	744527,248	4707265,034	677,800
744	744525,436	4707263,473	677,800
745	744530,334	4707263,940	677,800
746	744534,630	4707263,710	677,800
747	744544,900	4707347,214	680,800
748	744544,651	4707342,223	680,800
749	744544,241	4707337,241	680,800
750	744543,605	4707332,283	680,800
751	744542,870	4707327,341	680,800
752	744542,202	4707322,390	680,800
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
753	744540,105	4707317,937	680,800
754	744539,641	4707312,959	680,800
755	744538,804	4707308,034	680,800
756	744537,297	4707303,276	680,800
757	744534,477	4707299,173	680,800
758	744533,235	4707294,355	680,800
759	744532,836	4707289,373	680,800
760	744530,936	4707284,873	680,800
761	744527,229	4707281,629	680,800
762	744526,898	4707276,701	680,800
763	744528,143	4707271,865	680,800
764	744524,879	4707269,018	680,800
765	744519,888	4707268,821	680,800
766	744514,905	4707268,633	680,800
767	744509,934	4707268,713	680,800
768	744504,966	4707268,282	680,800
769	744500,837	4707265,613	680,800
770	744497,893	4707261,599	680,800
771	744496,836	4707258,227	680,800
772	744501,801	4707258,068	680,800
773	744506,363	4707259,812	680,800
774	744511,082	4707260,258	680,800
775	744515,681	4707258,917	680,800
776	744517,093	4707255,812	680,800
777	744516,716	4707251,475	680,800
778	744560,368	4707332,265	675,800
779	744558,619	4707327,612	675,800
780	744557,808	4707322,682	675,800
781	744558,516	4707317,765	675,800
782	744558,761	4707312,794	675,800

783	744557,745	4707307,930	675,800
784	744554,284	4707304,492	675,800
785	744553,454	4707299,954	675,800
786	744555,779	4707295,529	675,800
787	744557,683	4707290,919	675,800
788	744558,326	4707286,114	675,800
789	744555,679	4707281,910	675,800
790	744556,657	4707277,296	675,800
791	744591,767	4707323,216	672,850
792	744593,676	4707317,877	672,702
793	744595,491	4707312,606	672,488
794	744597,741	4707304,007	672,169
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
795	744614,136	4707303,371	672,443
796	744614,773	4707295,568	672,187
797	744618,008	4707285,254	671,944
798	744618,853	4707283,565	671,798
799	744620,262	4707286,314	671,961
800	744622,129	4707285,427	671,855
801	744622,813	4707281,360	671,709
802	744624,519	4707277,384	671,597
803	744628,958	4707273,296	671,243
804	744632,311	4707270,596	670,836
805	744635,354	4707267,390	670,598
806	744638,304	4707264,357	670,333
807	744642,557	4707260,834	670,174
808	744645,691	4707258,063	670,244
809	744649,612	4707256,584	670,741
810	744651,862	4707255,326	670,710
811	744655,928	4707253,520	670,521
812	744659,397	4707251,365	670,411
813	744662,287	4707249,615	670,343
814	744670,198	4707245,596	669,931
815	744676,005	4707244,069	669,789
816	744682,324	4707241,795	669,394
817	744692,271	4707238,689	669,755
818	744700,311	4707239,877	669,953
819	744702,652	4707240,785	670,160
820	744701,858	4707241,674	670,112
821	744704,957	4707235,892	668,927
822	744706,287	4707235,180	668,797
823	744713,251	4707237,411	668,590
824	744717,954	4707238,633	668,621

825	744726,804	4707240,111	668,503
826	744731,405	4707240,920	668,438
827	744731,412	4707240,904	668,429
828	744732,067	4707239,251	668,297
829	744732,829	4707234,928	668,115
830	744732,167	4707226,406	667,777
831	744730,666	4707225,019	667,502
832	744726,901	4707225,871	667,621
833	744730,851	4707231,969	668,048
834	744726,731	4707232,435	667,948
835	744723,203	4707229,620	667,793
836	744719,284	4707227,915	667,734
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
837	744719,067	4707224,420	667,530
838	744715,401	4707223,862	667,687
839	744730,761	4707240,144	668,260
840	744725,865	4707238,996	668,095
841	744717,782	4707237,310	667,905
842	744712,046	4707235,396	667,910
843	744708,422	4707234,324	667,968
844	744705,335	4707233,695	668,021
845	744704,481	4707233,708	668,100
846	744700,908	4707234,710	668,300
847	744695,335	4707236,548	668,623
848	744697,537	4707237,918	669,024
849	744701,472	4707239,179	669,058
850	744704,535	4707240,274	669,013
851	744690,814	4707237,400	668,690
852	744687,178	4707238,477	668,636
853	744682,857	4707240,192	668,739
854	744678,670	4707241,817	668,941
855	744674,159	4707243,463	669,220
856	744668,970	4707244,835	669,159
857	744665,570	4707246,634	669,387
858	744660,653	4707248,817	669,334
859	744660,230	4707247,189	669,325
860	744663,869	4707245,266	669,269
861	744666,182	4707241,791	669,242
862	744669,220	4707238,590	669,395
863	744673,960	4707239,672	669,106
864	744678,550	4707238,747	669,048
865	744680,749	4707233,982	669,107

866	744686,704	4707233,670	668,827
867	744689,969	4707234,229	668,688
868	744693,908	4707232,888	668,699
869	744674,213	4707225,079	667,793
870	744671,276	4707229,539	668,019
871	744668,722	4707232,217	668,137
872	744663,255	4707227,840	668,473
873	744659,616	4707231,280	668,889
874	744657,696	4707230,409	669,169
875	744650,775	4707234,465	669,677
876	744650,801	4707238,027	669,597
877	744646,466	4707241,637	669,706
878	744641,012	4707239,380	670,074
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
879	744638,546	4707241,701	670,104
880	744636,135	4707243,857	670,235
881	744639,845	4707246,147	669,788
882	744633,608	4707246,228	670,268
883	744631,356	4707248,018	670,130
884	744625,499	4707251,090	670,366
885	744622,248	4707252,723	670,375
886	744618,593	4707254,132	670,415
887	744612,139	4707258,910	670,680
888	744609,500	4707260,004	671,030
889	744604,919	4707266,598	671,454
890	744600,563	4707274,716	671,705
891	744596,954	4707284,862	671,551
892	744592,103	4707296,250	671,889
893	744589,501	4707302,765	672,088
894	744587,129	4707309,611	672,367
895	744585,894	4707316,244	672,339
896	744583,345	4707324,612	672,479
897	744584,405	4707324,456	672,388
898	744588,217	4707321,886	672,188
899	744588,774	4707315,751	672,222
900	744590,338	4707311,618	672,193
901	744590,255	4707306,978	672,165
902	744594,383	4707304,680	672,128
903	744595,955	4707295,923	672,068
904	744597,518	4707291,187	671,855
905	744602,372	4707290,727	671,773
906	744607,344	4707292,151	671,596



907	744610,098	4707291,373	671,474
908	744611,227	4707288,040	671,084
909	744610,910	4707287,198	671,073
910	744610,722	4707285,310	670,870
911	744610,140	4707283,057	671,070
912	744610,899	4707279,117	671,134
913	744612,380	4707276,986	671,172
914	744613,739	4707276,640	670,836
915	744614,169	4707274,561	670,651
916	744616,179	4707272,178	670,695
917	744618,759	4707273,004	670,446
918	744619,563	4707275,186	669,871
919	744621,997	4707273,882	669,671
920	744623,000	4707274,704	669,537
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
921	744623,370	4707275,049	669,647
922	744627,500	4707272,537	669,612
923	744631,437	4707268,966	669,512
924	744636,360	4707264,945	669,717
925	744638,492	4707262,265	669,631
926	744635,209	4707259,084	669,480
927	744633,924	4707258,479	669,694
928	744632,706	4707258,987	669,744
929	744630,949	4707259,080	670,146
930	744627,835	4707260,310	670,363
931	744626,391	4707262,172	670,566
932	744625,782	4707265,241	670,379
933	744623,935	4707267,372	670,524
934	744621,821	4707268,119	670,802
935	744619,951	4707268,657	670,817
936	744616,893	4707267,975	670,848
937	744616,547	4707271,316	671,041
938	744612,456	4707272,665	671,080
939	744610,834	4707273,529	671,049
940	744609,184	4707276,702	671,366
941	744611,622	4707279,073	671,052
942	744608,439	4707280,813	671,288
943	744606,566	4707283,739	671,534
944	744603,228	4707287,970	671,823
945	744601,588	4707291,817	671,818
946	744599,477	4707296,421	671,813
947	744601,510	4707300,505	672,040
948	744602,789	4707303,303	672,209

949	744605,965	4707305,090	672,321
950	744607,851	4707302,879	672,065
951	744602,852	4707308,322	672,377
952	744596,721	4707308,053	672,309
953	744597,599	4707301,960	671,952
954	744599,449	4707297,595	671,800
955	744595,855	4707306,104	671,809
956	744594,223	4707311,208	671,917
957	744592,382	4707317,802	672,091
958	744588,625	4707325,928	672,103
959	744582,616	4707326,961	672,509
960	744584,582	4707333,233	672,342
961	744582,371	4707337,353	672,483
962	744578,004	4707335,921	672,551
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
963	744574,928	4707337,212	672,711
964	744578,156	4707342,894	672,684
965	744575,313	4707346,371	672,987
966	744569,444	4707346,398	673,317
967	744572,122	4707351,536	673,333
968	744567,729	4707352,846	672,993
969	744569,054	4707355,823	673,333
970	744567,893	4707356,915	673,034
971	744566,800	4707358,282	672,891
972	744565,732	4707358,072	672,966
973	744565,180	4707357,216	673,096
974	744566,563	4707354,891	673,037
975	744568,216	4707351,602	673,007
976	744568,616	4707349,035	673,243
977	744566,061	4707358,613	673,630
978	744567,554	4707359,572	673,600
979	744568,452	4707358,565	673,657
980	744572,185	4707355,117	674,032
981	744576,048	4707348,932	673,641
982	744578,661	4707345,420	673,483
983	744581,180	4707341,571	673,484
984	744583,665	4707338,597	673,340
985	744586,249	4707334,568	673,262
986	744587,818	4707331,752	673,163
987	744591,004	4707325,224	672,939
988	744593,015	4707320,324	672,708
989	744595,059	4707321,495	672,766
990	744594,386	4707325,067	672,809

991	744596,252	4707326,482	673,063
992	744599,127	4707327,375	673,089
993	744597,267	4707331,566	673,055
994	744594,989	4707332,140	673,036
995	744591,333	4707332,848	673,038
996	744588,375	4707335,039	673,085
997	744588,208	4707339,772	673,249
998	744585,376	4707340,029	673,267
999	744603,112	4707331,677	672,335
1000	744601,306	4707330,107	672,613
1001	744599,645	4707328,408	672,944
1002	744605,558	4707323,227	672,976
1003	744606,694	4707323,769	672,290
1004	744609,283	4707320,413	672,201
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1005	744608,141	4707319,490	672,674
1006	744610,797	4707315,073	672,500
1007	744614,762	4707314,478	672,113
1008	744618,101	4707312,967	672,040
1009	744618,492	4707312,809	672,068
1010	744618,960	4707312,794	671,696
1011	744622,369	4707310,676	671,426
1012	744625,684	4707308,817	671,344
1013	744631,634	4707305,064	671,274
1014	744637,040	4707301,983	671,021
1015	744644,723	4707299,075	670,676
1016	744653,280	4707294,410	670,461
1017	744660,116	4707291,415	670,546
1018	744667,884	4707288,181	670,492
1019	744675,231	4707282,878	670,276
1020	744681,397	4707281,041	670,099
1021	744685,921	4707277,592	670,122
1022	744691,336	4707273,246	670,042
1023	744695,907	4707267,748	669,637
1024	744700,414	4707264,072	669,293
1025	744707,280	4707261,710	668,883
1026	744711,843	4707260,209	668,464
1027	744708,996	4707259,684	669,123
1028	744706,001	4707261,143	669,344
1029	744705,554	4707256,806	669,236
1030	744701,876	4707256,787	669,367
1031	744701,017	4707258,499	669,450

1032	744698,778	4707256,837	669,478
1033	744698,422	4707260,010	669,441
1034	744698,550	4707262,062	669,515
1035	744694,545	4707267,486	669,702
1036	744691,621	4707264,614	669,558
1037	744691,985	4707262,156	669,697
1038	744690,026	4707261,049	669,830
1039	744687,868	4707261,897	669,909
1040	744688,511	4707265,850	669,665
1041	744689,587	4707268,558	669,837
1042	744690,743	4707269,595	669,828
1043	744691,665	4707269,306	669,827
1044	744693,290	4707269,503	669,912
1045	744690,385	4707272,881	670,166
1046	744685,783	4707272,269	669,999
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1047	744684,678	4707270,471	669,910
1048	744682,933	4707267,625	669,544
1049	744680,060	4707271,115	669,885
1050	744674,264	4707269,493	669,954
1051	744672,574	4707261,869	670,679
1052	744675,929	4707257,635	670,340
1053	744678,737	4707255,237	670,278
1054	744678,278	4707251,823	670,037
1055	744679,943	4707248,298	669,779
1056	744683,658	4707246,436	669,531
1057	744684,350	4707242,672	669,447
1058	744688,131	4707243,582	670,151
1059	744689,803	4707241,705	669,869
1060	744690,083	4707239,186	669,924
1061	744688,530	4707239,438	670,019
1062	744695,460	4707240,747	670,113
1063	744699,047	4707240,417	669,925
1064	744700,422	4707238,376	669,185
1065	744700,344	4707236,834	668,979
1066	744700,171	4707235,217	668,433
1067	744705,093	4707233,791	668,098
1068	744707,781	4707234,159	667,984
1069	744712,295	4707235,540	667,919
1070	744716,848	4707236,888	667,863
1071	744721,213	4707238,002	667,920
1072	744726,517	4707237,918	668,099

1073	744728,465	4707238,291	668,222
1074	744730,856	4707237,993	668,425
1075	744730,930	4707237,081	668,351
1076	744717,000	4707242,773	668,843
1077	744716,302	4707243,085	668,917
1078	744716,471	4707244,018	669,535
1079	744716,586	4707244,942	669,644
1080	744717,316	4707246,055	669,756
1081	744719,313	4707245,111	669,788
1082	744719,433	4707247,976	669,787
1083	744721,740	4707249,409	669,912
1084	744723,220	4707250,491	669,817
1085	744724,161	4707250,048	669,762
1086	744726,442	4707251,912	668,628
1087	744722,401	4707250,830	669,820
1088	744720,157	4707251,333	670,089
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1089	744718,010	4707253,732	669,046
1090	744717,314	4707255,405	668,862
1091	744717,442	4707257,192	668,343
1092	744717,245	4707256,710	668,697
1093	744713,312	4707259,236	668,527
1094	744713,165	4707258,678	668,735
1095	744711,924	4707256,558	668,968
1096	744706,880	4707263,242	668,852
1097	744706,350	4707262,554	669,030
1098	744706,176	4707260,466	669,248
1099	744705,417	4707258,593	669,255
1100	744704,588	4707256,680	669,315
1101	744701,554	4707256,757	669,366
1102	744701,279	4707255,392	670,063
1103	744700,548	4707257,246	669,368
1104	744700,401	4707258,802	669,437
1105	744700,207	4707260,484	669,523
1106	744700,437	4707261,977	669,618
1107	744699,751	4707263,148	669,467
1108	744700,491	4707264,008	669,297
1109	744696,359	4707257,383	669,529
1110	744692,444	4707259,496	669,791
1111	744689,547	4707260,975	669,885
1112	744687,253	4707262,301	669,916
1113	744688,962	4707264,630	669,556
1114	744691,453	4707265,001	669,623

1115	744693,540	4707265,956	669,595
1116	744694,689	4707266,718	669,707
1117	744695,931	4707267,361	669,620
1118	744699,387	4707270,727	669,768
1119	744700,980	4707271,354	669,679
1120	744702,596	4707271,329	669,636
1121	744704,190	4707270,235	669,649
1122	744704,961	4707268,528	669,429
1123	744706,701	4707268,208	669,465
1124	744707,348	4707267,250	669,210
1125	744708,082	4707268,006	669,297
1126	744708,688	4707267,462	669,128
1127	744709,934	4707266,564	669,184
1128	744711,062	4707265,642	669,196
1129	744711,843	4707264,380	669,002
1130	744711,367	4707263,234	668,657
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1131	744712,962	4707264,191	668,964
1132	744712,309	4707265,917	669,125
1133	744709,288	4707267,097	669,140
1134	744705,663	4707266,321	669,051
1135	744702,893	4707268,681	669,197
1136	744700,679	4707268,030	669,590
1137	744697,899	4707268,500	669,682
1138	744692,320	4707264,207	669,570
1139	744689,498	4707266,067	669,761
1140	744686,930	4707268,452	669,723
1141	744685,643	4707269,162	669,852
1142	744688,468	4707261,565	669,909
1143	744688,481	4707261,476	669,898
1144	744687,202	4707264,861	669,478
1145	744685,813	4707264,654	669,609
1146	744686,316	4707265,578	669,382
1147	744686,352	4707267,394	669,663
1148	744685,379	4707268,658	669,778
1149	744683,206	4707270,181	669,758
1150	744679,991	4707271,467	669,940
1151	744676,865	4707271,200	669,852
1152	744677,112	4707268,149	669,871
1153	744677,488	4707264,764	670,165
1154	744678,698	4707264,268	670,064
1155	744675,275	4707265,398	670,248
1156	744672,581	4707266,107	670,167

1157	744667,937	4707266,999	670,367
1158	744664,508	4707268,355	670,459
1159	744662,851	4707272,266	670,350
1160	744620,912	4707300,751	672,222
1161	744621,360	4707301,309	672,209
1162	744617,262	4707303,486	672,337
1163	744613,947	4707304,984	672,431
1164	744585,148	4707312,903	673,057
1165	744584,850	4707310,588	673,184
1166	744582,074	4707307,878	673,716
1167	744578,441	4707307,354	673,878
1168	744576,077	4707303,898	674,099
1169	744573,092	4707299,206	674,325
1170	744570,525	4707295,606	674,665
1171	744568,686	4707291,333	675,209
1172	744565,058	4707285,595	675,574
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1173	744560,353	4707283,564	675,808
1174	744556,640	4707281,530	675,914
1175	744553,630	4707278,473	676,252
1176	744551,621	4707272,033	676,688
1177	744549,506	4707269,498	676,708
1178	744548,299	4707266,350	676,507
1179	744544,816	4707269,017	676,984
1180	744544,037	4707266,258	676,707
1181	744537,190	4707265,096	677,673
1182	744536,792	4707261,905	677,936
1183	744527,992	4707260,682	679,179
1184	744527,839	4707257,427	679,289
1185	744520,809	4707256,949	680,340
1186	744520,345	4707253,675	680,514
1187	744514,853	4707251,835	681,400
1188	744511,258	4707242,748	683,087
1189	744511,255	4707242,742	683,101
1190	744507,539	4707241,462	683,670
1191	744507,197	4707237,196	684,268
1192	744501,869	4707235,452	684,997
1193	744500,431	4707230,799	685,336
1194	744495,977	4707229,915	685,906
1195	744490,481	4707226,079	686,489
1196	744484,297	4707221,168	686,913
1197	744475,370	4707215,359	687,559

1198	744464,153	4707206,624	688,301
1199	744456,976	4707203,447	689,015
1200	744456,302	4707199,122	688,942
1201	744463,648	4707202,834	688,419
1202	744472,572	4707210,326	687,720
1203	744482,167	4707216,878	686,869
1204	744488,648	4707221,283	686,330
1205	744494,607	4707224,820	686,002
1206	744496,810	4707224,641	685,988
1207	744500,566	4707224,842	685,487
1208	744505,931	4707226,300	685,075
1209	744509,880	4707228,996	684,915
1210	744512,715	4707231,176	684,803
1211	744517,182	4707235,428	684,558
1212	744518,932	4707237,628	684,533
1213	744518,383	4707239,261	684,594
1214	744515,475	4707241,393	684,969
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1215	744512,664	4707239,008	685,081
1216	744508,099	4707235,296	685,161
1217	744504,988	4707233,335	685,285
1218	744501,838	4707231,174	685,420
1219	744563,323	4707361,473	673,621
1220	744562,848	4707363,768	673,801
1221	744560,554	4707369,134	674,422
1222	744559,563	4707375,831	674,510
1223	744558,580	4707382,843	674,585
1224	744562,358	4707381,193	674,121
1225	744562,744	4707379,600	674,056
1226	744564,674	4707377,024	674,001
1227	744568,501	4707374,586	673,874
1228	744572,483	4707371,857	673,675
1229	744575,618	4707368,412	673,320
1230	744580,006	4707365,170	673,055
1231	744582,913	4707362,972	673,087
1232	744583,183	4707361,412	673,036
1233	744586,078	4707358,170	672,998
1234	744588,380	4707356,246	673,132
1235	744591,907	4707353,963	672,948
1236	744593,549	4707350,209	672,797
1237	744594,697	4707347,720	672,660
1238	744598,081	4707342,351	672,513

1239	744581,441	4707358,883	673,590
1240	744577,288	4707360,307	673,925
1241	744572,733	4707363,831	674,261
1242	744570,611	4707364,607	674,289
1243	744569,283	4707372,137	673,940
1244	744565,276	4707374,124	674,109
1245	744563,819	4707376,121	674,059
1246	744570,332	4707410,149	675,047
1247	744573,657	4707410,271	675,043
1248	744574,182	4707414,389	674,920
1249	744573,148	4707417,027	674,818
1250	744570,257	4707418,201	674,983
1251	744565,850	4707422,239	675,177
1252	744561,140	4707420,751	675,259
1253	744561,228	4707425,439	675,457
1254	744560,591	4707432,232	675,710
1255	744562,404	4707440,050	675,184
1256	744556,413	4707451,099	675,744
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1257	744552,652	4707456,123	675,929
1258	744549,810	4707460,896	676,005
1259	744549,126	4707463,930	676,048
1260	744548,940	4707467,748	676,393
1261	744548,477	4707471,487	676,521
1262	744552,294	4707475,633	677,034
1263	744553,777	4707480,112	677,221
1264	744555,890	4707488,054	677,477
1265	744557,154	4707494,622	677,597
1266	744556,974	4707502,721	677,827
1267	744558,251	4707508,597	677,924
1268	744556,707	4707511,827	677,369
1269	744554,716	4707511,408	676,282
1270	744554,014	4707509,046	676,298
1271	744552,306	4707506,054	676,232
1272	744555,802	4707503,696	677,804
1273	744553,104	4707497,089	677,545
1274	744550,302	4707497,458	676,038
1275	744548,390	4707493,626	676,127
1276	744550,809	4707491,424	677,417
1277	744548,626	4707486,394	677,343
1278	744548,044	4707486,494	676,398
1279	744545,324	4707479,994	675,936
1280	744546,389	4707479,087	676,838

1281	744545,716	4707470,101	676,399
1282	744543,288	4707470,358	675,410
1283	744542,656	4707466,349	675,315
1284	744545,937	4707466,585	676,353
1285	744550,261	4707454,358	676,178
1286	744549,717	4707452,010	675,212
1287	744554,885	4707442,529	675,005
1288	744557,193	4707441,920	675,856
1289	744559,581	4707431,923	675,715
1290	744557,960	4707429,433	674,809
1291	744559,473	4707419,511	674,580
1292	744561,288	4707419,853	675,223
1293	744562,800	4707413,697	675,573
1294	744565,307	4707409,149	675,183
1295	744563,426	4707406,563	674,431
1296	744565,043	4707402,653	674,324
1297	744568,714	4707401,268	674,953
1298	744567,397	4707398,128	674,359
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1299	744570,329	4707388,326	674,038
1300	744573,418	4707389,246	674,927
1301	744575,702	4707381,244	674,592
1302	744573,942	4707380,942	673,986
1303	744578,735	4707375,338	674,225
1304	744581,366	4707372,612	674,028
1305	744581,639	4707369,726	673,318
1306	744587,904	4707368,877	673,986
1307	744586,647	4707368,004	673,700
1308	744584,848	4707366,894	673,257
1309	744592,866	4707365,332	673,943
1310	744592,734	4707360,450	673,102
1311	744596,226	4707357,276	672,943
1312	744596,924	4707358,170	673,245
1313	744601,586	4707351,817	673,636
1314	744604,012	4707344,604	673,383
1315	744602,680	4707342,888	672,344
1316	744604,039	4707340,792	672,429
1317	744605,671	4707338,340	672,352
1318	744607,392	4707338,993	673,142
1319	744609,448	4707336,098	673,110
1320	744610,282	4707331,416	672,346
1321	744614,182	4707325,342	672,309
1322	744616,864	4707327,106	672,523



1323	744619,685	4707328,324	672,649
1324	744622,827	4707325,878	672,515
1325	744623,269	4707322,378	672,379
1326	744622,420	4707318,498	672,093
1327	744625,760	4707312,437	671,403
1328	744630,673	4707309,899	671,281
1329	744632,323	4707310,997	671,543
1330	744634,213	4707312,341	671,694
1331	744635,139	4707311,759	671,658
1332	744630,333	4707315,507	671,685
1333	744628,876	4707317,794	671,860
1334	744631,687	4707316,256	672,199
1335	744635,604	4707312,639	672,196
1336	744639,789	4707309,702	672,412
1337	744639,979	4707309,236	671,142
1338	744643,847	4707306,874	672,352
1339	744643,557	4707306,359	670,766
1340	744648,500	4707302,980	672,187
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1341	744651,331	4707301,463	671,837
1342	744652,456	4707300,054	670,565
1343	744660,346	4707298,861	671,460
1344	744660,017	4707296,374	670,504
1345	744662,284	4707295,558	670,492
1346	744665,333	4707294,378	670,479
1347	744666,467	4707296,305	671,397
1348	744669,611	4707293,425	670,450
1349	744673,571	4707293,294	671,738
1350	744678,964	4707290,049	671,537
1351	744680,554	4707288,827	671,429
1352	744679,769	4707291,599	671,393
1353	744678,540	4707295,109	671,348
1354	744674,983	4707301,784	671,533
1355	744676,224	4707302,657	670,895
1356	744679,079	4707298,530	670,519
1357	744681,366	4707292,408	670,368
1358	744683,340	4707287,886	670,398
1359	744683,341	4707287,891	670,398
1360	744683,239	4707286,416	669,981
1361	744684,740	4707285,602	670,064
1362	744688,635	4707284,437	670,073
1363	744691,291	4707284,612	670,050

1364	744693,264	4707284,986	670,023
1365	744690,182	4707286,350	670,257
1366	744687,083	4707288,354	670,420
1367	744686,118	4707292,317	670,388
1368	744684,358	4707294,421	670,396
1369	744684,551	4707298,957	670,458
1370	744681,371	4707299,701	670,447
1371	744687,907	4707287,744	670,372
1372	744685,702	4707293,473	670,377
1373	744684,494	4707298,216	670,443
1374	744682,061	4707305,377	670,518
1375	744681,028	4707312,631	670,717
1376	744680,532	4707317,821	670,759
1377	744678,842	4707317,291	670,884
1378	744677,414	4707315,780	671,213
1379	744675,138	4707316,206	671,196
1380	744672,329	4707317,207	671,457
1381	744671,645	4707320,885	671,607
1382	744672,964	4707323,797	671,533
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1383	744674,742	4707325,158	671,724
1384	744677,562	4707327,521	671,291
1385	744678,137	4707331,442	671,268
1386	744676,888	4707334,476	671,436
1387	744670,542	4707336,556	671,678
1388	744667,880	4707332,712	671,893
1389	744669,503	4707341,916	671,695
1390	744668,839	4707345,745	671,778
1391	744664,000	4707345,986	671,935
1392	744662,918	4707351,948	671,928
1393	744659,419	4707351,101	672,012
1394	744653,900	4707356,741	672,045
1395	744651,675	4707356,340	672,253
1396	744645,875	4707356,064	672,422
1397	744640,945	4707357,004	672,845
1398	744638,792	4707361,375	672,840
1399	744634,389	4707366,246	673,055
1400	744629,920	4707364,803	673,198
1401	744625,644	4707365,702	673,278
1402	744621,517	4707372,991	673,531
1403	744615,788	4707374,188	673,512
1404	744613,253	4707379,316	673,554

1405	744609,988	4707379,787	673,584
1406	744607,883	4707384,226	673,680
1407	744605,070	4707388,161	673,818
1408	744602,152	4707392,111	673,881
1409	744598,919	4707396,004	674,043
1410	744593,351	4707404,408	674,221
1411	744587,905	4707411,634	674,591
1412	744581,527	4707418,513	674,840
1413	744576,166	4707423,944	674,944
1414	744570,981	4707428,492	675,089
1415	744565,961	4707433,724	675,145
1416	744562,807	4707439,642	675,155
1417	744559,791	4707445,692	675,313
1418	744555,702	4707451,926	675,831
1419	744549,487	4707464,390	676,093
1420	744548,585	4707469,851	676,548
1421	744549,983	4707473,095	676,693
1422	744552,519	4707475,304	677,025
1423	744553,759	4707478,646	677,196
1424	744558,468	4707482,123	677,306
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1425	744563,781	4707482,050	677,501
1426	744564,421	4707488,995	677,481
1427	744564,701	4707494,365	677,669
1428	744565,840	4707500,621	677,619
1429	744565,802	4707500,631	677,620
1430	744564,386	4707504,066	677,702
1431	744559,694	4707501,538	677,860
1432	744559,024	4707498,803	677,746
1433	744557,091	4707494,710	677,606
1434	744553,881	4707490,721	677,523
1435	744552,000	4707486,529	677,306
1436	744554,777	4707483,552	677,423
1437	744553,644	4707478,944	677,210
1438	744551,557	4707474,696	677,023
1439	744548,543	4707473,912	676,778
1440	744547,298	4707470,980	676,603
1441	744552,235	4707475,753	677,027
1442	744558,677	4707479,639	677,259
1443	744559,670	4707475,273	677,158
1444	744561,111	4707470,845	676,954
1445	744562,199	4707466,459	676,839
1446	744565,305	4707463,438	676,686

1447	744566,421	4707459,293	676,573
1448	744563,544	4707454,077	676,368
1449	744563,189	4707448,180	676,150
1450	744569,310	4707433,612	675,349
1451	744567,263	4707429,210	675,104
1452	744575,796	4707427,302	675,133
1453	744574,048	4707422,124	674,876
1454	744582,422	4707420,118	674,836
1455	744585,771	4707416,195	674,717
1456	744580,348	4707413,351	674,746
1457	744579,586	4707410,352	674,793
1458	744579,429	4707404,830	674,973
1459	744577,343	4707398,773	674,978
1460	744575,281	4707393,430	674,950
1461	744577,687	4707387,937	674,680
1462	744582,248	4707387,381	674,530
1463	744587,020	4707389,103	674,598
1464	744593,451	4707389,667	674,498
1465	744598,188	4707390,955	674,380
1466	744599,959	4707391,958	673,986
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1467	744603,525	4707392,339	674,026
1468	744606,955	4707388,132	673,912
1469	744606,679	4707382,970	673,685
1470	744612,774	4707382,082	673,757
1471	744612,145	4707375,367	673,681
1472	744615,820	4707371,757	673,552
1473	744624,249	4707374,635	673,591
1474	744624,626	4707363,737	673,349
1475	744630,563	4707370,667	673,335
1476	744630,941	4707359,408	673,182
1477	744640,695	4707364,744	672,558
1478	744646,260	4707362,251	672,054
1479	744649,465	4707360,943	672,078
1480	744650,728	4707353,718	672,312
1481	744657,652	4707356,766	672,076
1482	744658,252	4707350,590	672,011
1483	744665,165	4707351,525	671,968
1484	744665,792	4707342,835	671,889
1485	744672,754	4707344,737	671,753
1486	744677,353	4707336,945	671,303
1487	744674,342	4707332,517	671,339
1488	744680,116	4707329,681	671,185

1489	744677,071	4707326,401	671,218
1490	744681,971	4707322,051	670,926
1491	744678,971	4707314,977	670,809
1492	744684,761	4707311,315	670,748
1493	744685,396	4707302,838	670,499
1494	744679,586	4707298,056	670,460
1495	744681,378	4707292,391	670,370
1496	744691,320	4707290,426	670,324
1497	744692,659	4707288,744	670,259
1498	744699,235	4707287,815	670,123
1499	744698,961	4707280,861	669,815
1500	744707,353	4707275,658	669,736
1501	744707,703	4707276,461	670,517
1502	744704,881	4707278,465	670,596
1503	744714,607	4707271,403	669,322
1504	744715,421	4707273,482	670,415
1505	744722,444	4707268,592	669,009
1506	744736,971	4707262,018	668,708
1507	744736,397	4707257,372	668,703
1508	744740,756	4707254,993	668,637
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1509	744744,777	4707251,089	668,617
1510	744749,289	4707255,087	668,226
1511	744751,105	4707248,732	668,463
1512	744755,710	4707244,024	668,339
1513	744759,507	4707242,184	668,180
1514	744764,531	4707239,450	668,114
1515	744768,197	4707239,189	668,157
1516	744769,892	4707241,683	668,042
1517	744772,115	4707240,372	668,016
1518	744772,606	4707237,626	668,002
1519	744773,948	4707233,411	667,842
1520	744774,535	4707229,781	667,748
1521	744776,204	4707225,634	667,587
1522	744779,577	4707226,397	667,619
1523	744782,530	4707225,244	667,651
1524	744783,539	4707231,366	667,732
1525	744785,182	4707234,085	667,811
1526	744777,693	4707218,435	666,785
1527	744780,684	4707218,854	666,787
1528	744782,086	4707218,984	666,790
1529	744769,259	4707218,395	666,851

1530	744767,945	4707218,632	666,916
1531	744767,099	4707220,121	667,346
1532	744767,684	4707220,865	667,413
1533	744766,592	4707221,791	667,472
1534	744765,097	4707221,627	667,213
1535	744764,657	4707221,884	667,071
1536	744764,536	4707223,067	667,161
1537	744764,925	4707223,289	667,332
1538	744765,274	4707224,265	667,506
1539	744764,748	4707225,490	667,379
1540	744765,101	4707225,865	667,564
1541	744764,883	4707227,226	667,538
1542	744765,829	4707226,927	667,574
1543	744766,279	4707226,224	667,618
1544	744762,944	4707227,235	667,536
1545	744762,407	4707229,388	667,741
1546	744761,993	4707230,800	667,767
1547	744760,265	4707229,660	667,858
1548	744758,814	4707228,778	667,827
1549	744757,889	4707227,302	667,869
1550	744756,369	4707224,359	667,589
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1551	744753,533	4707223,900	667,480
1552	744752,571	4707225,485	667,320
1553	744751,381	4707224,674	667,463
1554	744755,995	4707220,835	667,108
1555	744752,789	4707220,860	667,125
1556	744749,028	4707221,717	667,162
1557	744747,834	4707226,456	667,451
1558	744746,787	4707226,331	667,412
1559	744745,400	4707227,190	667,500
1560	744745,665	4707227,984	667,784
1561	744744,020	4707228,327	667,516
1562	744743,643	4707229,434	667,740
1563	744742,197	4707229,973	667,573
1564	744741,115	4707231,121	667,678
1565	744740,481	4707232,401	667,836
1566	744741,069	4707233,586	667,893
1567	744741,010	4707234,882	668,039
1568	744742,194	4707235,911	668,300
1569	744743,878	4707238,957	668,489
1570	744744,031	4707241,122	668,522

1571	744745,168	4707242,506	668,370
1572	744741,824	4707244,924	668,524
1573	744739,155	4707245,489	668,619
1574	744737,186	4707245,830	668,753
1575	744736,013	4707244,911	668,618
1576	744735,397	4707242,321	668,281
1577	744736,628	4707246,338	668,707
1578	744736,855	4707244,337	668,672
1579	744735,865	4707241,218	668,303
1580	744736,365	4707239,492	668,229
1581	744735,972	4707238,283	668,078
1582	744735,191	4707240,037	668,119
1583	744734,726	4707241,628	668,143
1584	744734,250	4707243,269	668,171
1585	744734,865	4707243,745	668,367
1586	744735,318	4707245,327	668,515
1587	744735,950	4707237,098	667,973
1588	744739,767	4707237,652	668,322
1589	744740,869	4707231,971	667,777
1590	744744,046	4707227,965	667,507
1591	744745,670	4707227,797	667,626
1592	744746,883	4707228,081	667,849
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1593	744746,581	4707229,430	668,022
1594	744746,680	4707230,184	668,016
1595	744747,767	4707231,211	668,072
1596	744743,504	4707229,666	667,741
1597	744738,524	4707230,108	667,839
1598	744737,695	4707229,173	667,906
1599	744737,774	4707228,293	667,984
1600	744738,671	4707227,834	667,969
1601	744739,685	4707227,231	667,830
1602	744742,269	4707226,234	667,497
1603	744742,780	4707224,712	667,468
1604	744740,465	4707222,583	667,443
1605	744737,924	4707224,875	667,591
1606	744737,365	4707228,831	667,813
1607	744733,597	4707228,327	667,811
1608	744733,754	4707229,454	667,891
1609	744732,377	4707230,392	667,944
1610	744732,578	4707233,952	668,117
1611	744733,711	4707237,528	667,927
1612	744729,660	4707238,644	668,294

1613	744726,304	4707237,498	668,071
1614	744722,289	4707236,860	667,938
1615	744717,363	4707236,327	667,816
1616	744713,865	4707235,197	667,843
1617	744706,225	4707232,707	667,967
1618	744701,012	4707234,077	668,166
1619	744695,909	4707233,235	668,486
1620	744690,621	4707235,296	668,536
1621	744686,809	4707234,535	668,750
1622	744682,505	4707235,669	668,890
1623	744677,824	4707236,907	669,027
1624	744672,839	4707235,974	669,271
1625	744666,252	4707242,649	669,321
1626	744656,314	4707248,727	669,275
1627	744641,302	4707257,399	669,257
1628	744635,260	4707263,071	669,506
1629	744630,180	4707275,024	671,154
1630	744626,754	4707278,666	671,292
1631	744623,407	4707282,627	671,688
1632	744623,245	4707287,459	671,923
1633	744621,963	4707291,894	672,133
1634	744621,125	4707296,952	672,171
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1635	744619,723	4707300,748	672,288
1636	744615,043	4707306,903	672,384
1637	744615,029	4707312,179	672,259
1638	744608,663	4707311,158	672,558
1639	744603,314	4707314,130	672,616
1640	744601,199	4707320,926	672,963
1641	744597,604	4707320,802	672,963
1642	744598,137	4707324,649	673,023
1643	744600,910	4707332,832	672,594
1644	744583,398	4707319,660	673,065
1645	744585,424	4707312,873	673,077
1646	744586,166	4707306,182	673,423
1647	744587,652	4707300,675	673,803
1648	744590,578	4707293,226	673,685
1649	744594,634	4707285,095	673,480
1650	744597,536	4707277,618	673,360
1651	744599,932	4707269,811	673,036
1652	744604,348	4707262,112	672,904
1653	744608,487	4707257,122	672,729
1654	744613,713	4707254,647	672,345

1655	744617,805	4707253,267	671,630
1656	744622,505	4707250,700	671,436
1657	744628,915	4707247,344	671,143
1658	744634,600	4707242,745	671,358
1659	744638,419	4707239,653	671,100
1660	744643,785	4707235,575	670,704
1661	744647,593	4707232,804	670,799
1662	744650,768	4707231,781	670,340
1663	744654,323	4707229,743	669,814
1664	744657,600	4707228,034	670,406
1665	744659,854	4707224,578	670,269
1666	744653,280	4707214,970	668,363
1667	744657,445	4707216,254	668,133
1668	744661,590	4707216,906	668,198
1669	744667,920	4707218,349	667,956
1670	744672,997	4707221,963	667,994
1671	744674,059	4707224,119	667,846
1672	744679,110	4707223,843	667,872
1673	744683,661	4707225,933	667,898
1674	744689,082	4707227,158	667,885
1675	744696,682	4707228,546	667,888
1676	744703,647	4707229,508	667,863
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1677	744708,500	4707230,803	667,772
1678	744697,326	4707232,570	668,573
1679	744693,845	4707231,520	668,747
1680	744690,303	4707229,990	668,858
1681	744685,560	4707228,926	668,863
1682	744682,497	4707228,294	668,976
1683	744678,583	4707227,077	669,077
1684	744676,323	4707226,799	669,040
1685	744673,252	4707229,970	668,986
1686	744668,697	4707235,379	669,010
1687	744665,934	4707238,352	669,179
1688	744663,078	4707240,656	669,142
1689	744661,110	4707243,330	669,186
1690	744659,252	4707241,323	668,518
1691	744661,407	4707239,053	668,292
1692	744664,410	4707236,657	668,289
1693	744667,033	4707234,120	668,219
1694	744662,961	4707230,220	668,193
1695	744660,087	4707233,174	668,087

1696	744657,018	4707235,797	668,275
1697	744653,491	4707238,544	668,441
1698	744650,673	4707240,620	668,428
1699	744648,647	4707242,388	668,529
1700	744646,543	4707244,209	668,742
1701	744644,263	4707245,532	668,894
1702	744640,137	4707247,994	669,285
1703	744634,633	4707250,311	669,618
1704	744668,867	4707221,894	668,296
1705	744671,632	4707223,922	668,110
1706	744671,263	4707227,921	668,045
1707	744666,634	4707230,510	668,222
1708	744662,750	4707231,541	668,109
1709	744661,887	4707235,575	668,261
1710	744661,327	4707238,327	668,276
1711	744659,563	4707241,459	668,556
1712	744656,708	4707239,414	668,210
1713	744653,519	4707240,008	668,441
1714	744651,825	4707243,221	668,399
1715	744652,619	4707245,357	668,669
1716	744652,814	4707248,019	669,124
1717	744653,338	4707251,077	669,350
1718	744649,979	4707249,699	669,130
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1719	744647,717	4707248,300	668,654
1720	744644,844	4707247,991	668,877
1721	744640,756	4707249,468	669,301
1722	744642,255	4707252,773	668,893
1723	744642,454	4707256,527	669,287
1724	744638,632	4707257,395	669,136
1725	744635,571	4707254,115	669,718
1726	744634,985	4707251,116	669,563
1727	744631,388	4707253,922	669,849
1728	744632,523	4707256,756	669,733
1729	744634,787	4707259,008	669,609
1730	744636,438	4707261,091	669,447
1731	744635,068	4707264,769	669,504
1732	744632,027	4707264,147	669,500
1733	744630,742	4707261,937	669,809
1734	744628,974	4707259,458	670,267
1735	744626,680	4707256,439	669,922
1736	744621,857	4707253,906	670,308



1737	744622,452	4707257,129	670,041
1738	744623,601	4707260,040	670,463
1739	744625,955	4707262,047	670,590
1740	744622,664	4707264,311	670,584
1741	744618,764	4707262,049	670,775
1742	744614,297	4707261,642	670,840
1743	744611,816	4707261,903	670,969
1744	744612,136	4707265,938	671,168
1745	744608,636	4707265,953	671,223
1746	744606,379	4707269,176	671,376
1747	744604,583	4707274,100	671,685
1748	744604,499	4707278,980	671,675
1749	744601,350	4707281,246	671,451
1750	744599,367	4707287,182	671,748
1751	744596,407	4707291,704	671,883
1752	744595,905	4707296,470	672,059
1753	744591,767	4707300,017	672,014
1754	744594,817	4707304,016	672,117
1755	744595,735	4707305,067	671,856
1756	744592,277	4707306,285	672,133
1757	744588,626	4707309,424	672,181
1758	744590,502	4707313,797	672,177
1759	744591,477	4707316,842	672,268
1760	744588,366	4707319,405	672,222
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1761	744585,945	4707321,906	672,278
1762	744586,978	4707325,565	672,284
1763	744586,022	4707329,958	672,316
1764	744583,096	4707330,044	672,389
1765	744583,749	4707333,186	672,328
1766	744580,961	4707334,911	672,393
1767	744580,278	4707338,739	672,502
1768	744576,731	4707338,983	672,892
1769	744576,848	4707342,359	672,885
1770	744572,650	4707344,784	673,097
1771	744572,408	4707348,593	673,220
1772	744570,119	4707350,746	673,079
1773	744568,176	4707352,688	672,988
1774	744569,250	4707355,928	673,397
1775	744566,931	4707357,296	672,909
1776	744568,575	4707360,958	673,951
1777	744566,591	4707361,967	673,644
1778	744564,651	4707363,230	673,722

1779	744565,925	4707365,933	673,933
1780	744567,524	4707368,960	674,171
1781	744566,080	4707371,253	674,090
1782	744562,936	4707373,140	674,133
1783	744562,205	4707375,706	674,128
1784	744567,115	4707373,358	674,066
1785	744570,289	4707370,410	674,087
1786	744572,105	4707366,131	674,092
1787	744572,810	4707363,603	674,252
1788	744572,509	4707361,293	674,302
1789	744576,626	4707361,324	674,125
1790	744580,027	4707359,875	673,769
1791	744578,828	4707357,242	674,098
1792	744577,833	4707354,413	674,103
1793	744580,169	4707353,460	673,904
1794	744583,818	4707353,656	673,672
1795	744586,888	4707354,229	673,458
1796	744589,404	4707351,050	673,310
1797	744586,136	4707349,885	673,492
1798	744583,180	4707349,903	673,697
1799	744580,220	4707349,878	673,826
1800	744577,609	4707351,771	673,736
1801	744579,002	4707346,503	673,525
1802	744581,695	4707343,993	673,463
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1803	744586,604	4707346,600	673,375
1804	744590,090	4707349,110	673,369
1805	744590,426	4707345,136	673,367
1806	744592,069	4707343,859	673,317
1807	744591,616	4707341,543	673,242
1808	744593,505	4707339,045	672,971
1809	744593,751	4707335,364	673,219
1810	744596,867	4707332,662	673,077
1811	744599,366	4707328,556	672,978
1812	744598,142	4707325,659	673,029
1813	744598,869	4707324,755	673,061
1814	744602,211	4707323,878	672,889
1815	744599,542	4707319,693	672,930
1816	744595,915	4707315,720	672,597
1817	744597,237	4707311,805	672,406
1818	744602,665	4707312,526	672,636
1819	744605,122	4707316,139	672,760
1820	744607,953	4707316,854	672,714

1821	744609,155	4707313,345	672,670
1822	744605,678	4707310,274	672,572
1823	744601,505	4707307,064	672,369
1824	744598,729	4707302,547	672,083
1825	744601,415	4707299,755	672,006
1826	744604,915	4707301,663	672,123
1827	744608,938	4707304,864	672,091
1828	744611,364	4707307,539	672,416
1829	744615,575	4707310,024	672,263
1830	744620,252	4707308,393	672,125
1831	744619,457	4707303,877	672,269
1832	744615,043	4707303,070	672,452
1833	744611,076	4707300,847	672,022
1834	744608,772	4707297,775	671,964
1835	744611,177	4707295,917	671,603
1836	744612,960	4707298,233	671,863
1837	744613,700	4707302,066	672,278
1838	744617,458	4707303,777	672,311
1839	744622,228	4707305,749	672,372
1840	744619,195	4707308,236	672,077
1841	744625,219	4707303,834	672,225
1842	744627,770	4707302,494	672,343
1843	744625,967	4707298,642	672,235
1844	744623,280	4707295,272	672,232
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1845	744621,084	4707292,396	672,096
1846	744619,346	4707287,830	672,066
1847	744623,164	4707285,614	671,813
1848	744625,856	4707288,997	672,066
1849	744627,493	4707291,504	671,932
1850	744629,913	4707293,241	671,941
1851	744631,962	4707294,890	671,519
1852	744633,420	4707296,620	672,105
1853	744634,288	4707299,293	672,006
1854	744636,091	4707300,301	671,748
1855	744636,972	4707295,653	671,750
1856	744635,209	4707292,167	671,502
1857	744634,510	4707288,830	671,644
1858	744631,960	4707286,114	671,730
1859	744631,628	4707282,254	671,665
1860	744630,297	4707276,503	671,292
1861	744630,004	4707274,153	671,182

1862	744635,462	4707273,290	670,954
1863	744638,390	4707276,557	671,310
1864	744641,614	4707280,554	671,492
1865	744643,962	4707283,034	671,218
1866	744646,319	4707287,032	671,323
1867	744645,544	4707292,901	671,471
1868	744651,310	4707291,514	671,273
1869	744654,755	4707288,913	671,086
1870	744653,566	4707284,462	671,121
1871	744650,542	4707281,128	671,118
1872	744648,005	4707277,833	670,961
1873	744646,748	4707276,637	671,377
1874	744645,370	4707272,683	671,008
1875	744643,726	4707270,340	671,221
1876	744640,000	4707270,094	670,920
1877	744640,938	4707266,419	670,867
1878	744642,105	4707263,698	670,336
1879	744644,812	4707262,979	670,637
1880	744647,976	4707265,334	670,753
1881	744648,553	4707268,229	670,960
1882	744649,134	4707272,503	671,342
1883	744651,614	4707273,274	671,458
1884	744652,810	4707275,726	670,715
1885	744655,199	4707279,153	670,746
1886	744656,785	4707283,998	670,910
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1887	744658,553	4707288,189	671,049
1888	744663,315	4707286,652	670,812
1889	744661,677	4707281,002	670,711
1890	744660,227	4707278,268	670,890
1891	744657,891	4707273,519	670,572
1892	744657,289	4707270,866	671,107
1893	744655,636	4707267,014	671,139
1894	744652,243	4707261,938	671,007
1895	744655,541	4707256,963	670,722
1896	744659,679	4707258,844	670,764
1897	744662,667	4707263,411	670,806
1898	744664,049	4707267,217	670,778
1899	744665,762	4707269,365	670,313
1900	744668,822	4707272,532	670,421
1901	744671,358	4707277,862	670,517
1902	744672,805	4707281,552	670,572

1903	744679,631	4707278,848	670,420
1904	744677,079	4707274,574	670,217
1905	744675,564	4707271,158	669,933
1906	744674,632	4707267,321	669,980
1907	744674,814	4707264,572	670,416
1908	744674,165	4707262,373	670,640
1909	744672,211	4707259,014	670,470
1910	744669,159	4707255,416	670,352
1911	744667,071	4707251,204	670,200
1912	744670,515	4707248,243	669,972
1913	744674,212	4707249,733	670,011
1914	744677,960	4707248,987	669,938
1915	744678,949	4707253,170	670,038
1916	744681,874	4707256,847	670,260
1917	744685,179	4707259,002	670,670
1918	744683,932	4707261,048	670,785
1919	744686,986	4707256,087	670,886
1920	744689,673	4707257,035	670,860
1921	744689,699	4707254,444	670,805
1922	744687,624	4707251,423	670,636
1923	744689,137	4707246,183	670,665
1924	744692,464	4707247,400	670,486
1925	744695,297	4707251,011	670,333
1926	744697,667	4707250,305	669,915
1927	744700,463	4707250,482	669,524
1928	744701,738	4707252,507	669,748
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1929	744705,597	4707252,807	670,152
1930	744708,029	4707253,470	670,283
1931	744706,762	4707249,089	669,857
1932	744703,314	4707247,385	669,431
1933	744700,960	4707246,515	669,455
1934	744698,426	4707245,766	670,016
1935	744696,662	4707241,114	670,093
1936	744699,936	4707241,043	669,989
1937	744703,652	4707242,558	669,298
1938	744706,460	4707242,861	669,337
1939	744708,034	4707245,669	669,687
1940	744709,847	4707248,701	670,126
1941	744715,145	4707249,862	670,028
1942	744717,932	4707249,461	669,796
1943	744717,411	4707246,760	669,668
1944	744692,650	4707256,989	670,695

1945	744689,082	4707259,545	670,705
1946	744685,713	4707261,667	670,852
1947	744683,331	4707262,500	670,822
1948	744680,271	4707262,433	670,869
1949	744676,123	4707263,440	670,809
1950	744672,089	4707264,932	670,564
1951	744621,572	4707301,342	672,184
1952	744583,199	4707319,447	672,976
1953	744582,527	4707323,252	673,095
1954	744580,930	4707327,643	673,396
1955	744578,565	4707332,017	673,462
1956	744576,300	4707334,190	673,593
1957	744572,121	4707337,524	673,734
1958	744568,033	4707341,012	674,516
1959	744566,376	4707343,668	675,687
1960	744563,348	4707347,418	678,021
1961	744560,325	4707351,076	678,553
1962	744558,339	4707357,561	678,807
1963	744556,300	4707363,514	678,959
1964	744555,721	4707369,759	679,162
1965	744555,918	4707371,913	679,195
1966	744553,745	4707378,002	679,162
1967	744553,479	4707381,296	678,873
1968	744549,800	4707395,890	681,084
1969	744547,233	4707400,971	681,711
1970	744542,892	4707413,126	682,867
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
1971	744540,381	4707420,062	683,521
1972	744541,780	4707417,047	683,191
1973	744535,573	4707430,047	683,950
1974	744534,794	4707437,580	684,083
1975	744532,149	4707447,435	684,653
1976	744521,724	4707467,727	687,797
1977	744521,506	4707472,129	687,840
1978	744521,216	4707476,730	687,726
1979	744519,281	4707480,845	688,097
1980	744517,958	4707483,273	688,178
1981	744515,723	4707486,321	688,142
1982	744513,441	4707486,398	688,245
1983	744510,139	4707484,906	688,743
1984	744511,368	4707487,355	687,218
1985	744513,523	4707488,356	687,086
1986	744515,497	4707489,359	687,038

1987	744517,183	4707489,459	686,861
1988	744518,103	4707490,223	686,659
1989	744515,042	4707490,655	688,006
1990	744511,621	4707489,632	688,243
1991	744508,516	4707487,500	688,059
1992	744516,458	4707492,525	687,606
1993	744517,169	4707500,271	688,226
1994	744520,357	4707512,194	685,877
1995	744518,728	4707509,558	685,630
1996	744517,679	4707507,380	686,697
1997	744516,089	4707507,464	686,945
1998	744515,214	4707502,831	687,862
1999	744511,455	4707500,194	687,825
2000	744509,786	4707495,486	688,275
2001	744513,051	4707492,927	688,828
2002	744509,375	4707490,986	688,409
2003	744515,644	4707486,171	688,192
2004	744512,837	4707483,204	688,679
2005	744511,688	4707479,836	689,188
2006	744515,521	4707477,168	688,965
2007	744519,253	4707475,969	688,140
2008	744515,674	4707472,411	689,032
2009	744513,442	4707469,245	689,429
2010	744513,795	4707465,055	689,286
2011	744513,454	4707462,529	689,383
2012	744519,563	4707461,688	687,932
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
2013	744522,285	4707457,093	687,339
2014	744518,502	4707453,201	688,098
2015	744522,706	4707452,994	687,247
2016	744525,040	4707453,056	685,832
2017	744521,629	4707451,949	687,450
2018	744519,385	4707444,969	688,071
2019	744522,128	4707443,578	687,503
2020	744527,219	4707443,702	685,130
2021	744525,613	4707439,651	685,813
2022	744527,555	4707435,327	685,742
2023	744524,553	4707427,606	686,334
2024	744531,013	4707425,099	685,459
2025	744526,572	4707419,394	686,280
2026	744530,235	4707415,071	685,674
2027	744535,530	4707417,301	684,070

2028	744539,014	4707414,381	683,474
2029	744539,044	4707408,824	683,138
2030	744541,446	4707387,546	681,361
2031	744544,974	4707391,506	681,314
2032	744541,928	4707397,006	682,135
2033	744546,238	4707396,901	681,551
2034	744546,185	4707394,916	681,412
2035	744547,777	4707390,071	680,631
2036	744542,851	4707390,274	681,487
2037	744541,562	4707386,609	681,266
2038	744541,186	4707383,399	681,240
2039	744546,144	4707380,872	680,897
2040	744546,476	4707376,706	681,112
2041	744545,908	4707371,062	681,511
2042	744545,210	4707364,259	681,734
2043	744544,506	4707358,542	681,839
2044	744541,143	4707351,213	682,326
2045	744548,057	4707378,959	679,797
2046	744550,412	4707375,450	679,662
2047	744547,813	4707372,055	680,062
2048	744547,585	4707367,995	680,153
2049	744551,788	4707367,391	679,625
2050	744549,065	4707363,277	680,032
2051	744554,111	4707365,851	679,347
2052	744552,789	4707362,218	679,503
2053	744554,539	4707357,153	679,329
2054	744556,327	4707350,062	679,108
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
2055	744551,771	4707344,457	679,684
2056	744550,374	4707337,862	679,932
2057	744555,906	4707346,097	679,183
2058	744559,597	4707347,392	678,910
2059	744560,000	4707343,594	678,774
2060	744562,691	4707341,725	677,041
2061	744558,910	4707338,264	678,478
2062	744557,855	4707335,076	678,183
2063	744561,438	4707333,268	676,092
2064	744565,000	4707331,634	675,212
2065	744562,132	4707326,395	675,520
2066	744568,499	4707326,339	674,759
2067	744571,819	4707323,178	674,343
2068	744567,556	4707320,175	674,500

2069	744572,400	4707317,726	674,375
2070	744574,887	4707312,927	674,308
2071	744570,911	4707307,418	674,561
2072	744575,984	4707307,077	674,349
2073	744580,698	4707304,742	674,196
2074	744581,456	4707298,959	674,169
2075	744583,688	4707291,197	674,045
2076	744585,167	4707282,421	673,791
2077	744590,075	4707276,095	673,505
2078	744595,099	4707270,330	673,095
2079	744600,072	4707262,645	672,942
2080	744605,329	4707255,581	672,772
2081	744604,457	4707249,760	672,620
2082	744610,844	4707246,301	672,637
2083	744616,586	4707241,592	672,475
2084	744621,273	4707238,018	671,957
2085	744625,397	4707234,823	671,804
2086	744626,470	4707229,720	671,659
2087	744623,367	4707224,277	671,550
2088	744625,204	4707219,182	671,470
2089	744629,314	4707210,837	671,183
2090	744627,202	4707206,681	670,832
2091	744621,529	4707209,940	670,943
2092	744617,536	4707216,377	671,244
2093	744607,848	4707236,986	672,160
2094	744602,696	4707244,415	672,528
2095	744596,444	4707253,997	672,825
2096	744590,593	4707261,848	673,106
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
2097	744584,680	4707269,415	673,376
2098	744578,983	4707279,484	674,217
2099	744573,009	4707287,325	674,695
2100	744572,096	4707294,295	674,842
2101	744569,893	4707300,507	674,818
2102	744568,020	4707306,397	674,715
2103	744566,023	4707314,327	675,051
2104	744565,821	4707323,810	675,031
2105	744559,992	4707375,639	674,476
2106	744559,177	4707382,989	674,436
2107	744526,890	4707504,523	677,414
2108	744528,624	4707498,820	677,212
2109	744528,443	4707491,989	677,344
2110	744529,105	4707484,851	676,992

2111	744530,761	4707475,007	676,754
2112	744532,330	4707469,923	676,019
2113	744534,539	4707463,447	675,274
2114	744537,604	4707459,254	675,606
2115	744538,662	4707455,385	675,323
2116	744541,443	4707450,223	675,140
2117	744542,350	4707446,895	675,309
2118	744542,014	4707442,055	675,468
2119	744543,827	4707437,171	675,259
2120	744545,246	4707432,001	675,128
2121	744548,584	4707424,492	674,706
2122	744549,963	4707416,175	674,711
2123	744551,997	4707407,523	674,695
2124	744554,777	4707400,541	674,325
2125	744556,991	4707394,224	674,317
2126	744555,095	4707409,413	674,552
2127	744555,424	4707414,269	674,730
2128	744552,568	4707418,821	674,779
2129	744553,340	4707423,938	674,943
2130	744549,643	4707428,143	674,994
2131	744532,492	4707470,474	675,986
2132	744533,853	4707474,712	676,262
2133	744535,201	4707482,154	676,345
2134	744536,777	4707488,420	676,727
2135	744537,900	4707493,323	677,122
2136	744539,851	4707498,056	677,555
2137	744543,953	4707504,461	677,341
2138	744544,577	4707506,413	677,613
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
2139	744545,644	4707509,970	677,743
2140	744547,719	4707509,774	676,518
2141	744546,503	4707506,295	676,400
2142	744545,297	4707503,596	676,276
2143	744543,636	4707499,624	676,297
2144	744542,016	4707496,832	676,218
2145	744540,059	4707493,145	676,221
2146	744538,247	4707488,888	676,035
2147	744537,245	4707486,489	675,954
2148	744536,432	4707481,299	675,654
2149	744534,942	4707475,995	675,432
2150	744533,988	4707472,415	675,556
2151	744532,584	4707473,116	676,476
2152	744532,169	4707476,950	676,505



2153	744532,626	4707481,398	676,438
2154	744531,459	4707484,968	676,680
2155	744534,528	4707488,937	676,642
2156	744536,286	4707493,904	676,804
2157	744532,910	4707496,451	676,943
2158	744530,858	4707502,232	677,178
2159	744529,278	4707507,944	677,289
2160	744532,829	4707509,739	677,127
2161	744534,569	4707505,182	676,963
2162	744536,164	4707500,041	676,962
2163	744538,333	4707497,417	677,516
2164	744540,399	4707501,219	677,525
2165	744542,319	4707504,798	677,547
2166	744538,729	4707505,558	677,651
2167	744539,019	4707510,312	677,878
2168	744543,606	4707511,514	678,039
2169	744569,940	4707434,857	676,052
2170	744573,862	4707430,488	675,849
2171	744579,475	4707425,440	675,744
2172	744582,012	4707422,457	675,572
2173	744584,687	4707419,239	675,380
2174	744589,457	4707414,042	675,368
2175	744595,041	4707407,317	675,211
2176	744597,753	4707402,559	675,022
2177	744600,596	4707398,163	674,364
2178	744603,634	4707399,428	674,903
2179	744605,207	4707395,593	674,852
2180	744607,495	4707390,987	674,553
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
2181	744611,948	4707385,959	674,516
2182	744616,696	4707380,860	674,348
2183	744623,751	4707376,868	674,227
2184	744628,972	4707374,256	674,086
2185	744637,999	4707368,026	673,309
2186	744644,733	4707365,502	673,848
2187	744649,229	4707363,512	673,374
2188	744653,507	4707361,108	673,143
2189	744658,927	4707357,929	673,041
2190	744663,869	4707354,467	673,042
2191	744669,025	4707350,189	672,749
2192	744672,704	4707346,872	672,781
2193	744675,709	4707343,241	672,639

2194	744679,431	4707336,915	672,427
2195	744680,698	4707332,494	672,408
2196	744682,429	4707326,290	672,121
2197	744684,547	4707319,622	671,663
2198	744685,836	4707312,012	671,297
2199	744686,483	4707306,434	671,139
2200	744687,462	4707301,281	671,069
2201	744689,751	4707297,282	671,143
2202	744691,949	4707292,882	671,059
2203	744693,960	4707288,574	670,860
2204	744696,556	4707284,122	670,547
2205	744701,295	4707280,541	670,231
2206	744704,186	4707278,931	670,545
2207	744717,727	4707272,190	670,322
2208	744723,527	4707270,683	670,148
2209	744730,220	4707267,522	669,546
2210	744737,829	4707263,571	669,468
2211	744744,562	4707260,331	669,753
2212	744753,216	4707256,081	669,581
2213	744761,006	4707252,795	669,492
2214	744767,033	4707251,012	669,429
2215	744774,472	4707250,673	669,355
2216	744779,698	4707250,863	669,137
2217	744786,216	4707250,598	668,610
2218	744785,042	4707249,628	668,017
2219	744778,050	4707249,196	668,116
2220	744771,461	4707248,726	668,125
2221	744765,886	4707249,078	668,107
2222	744761,361	4707250,393	668,184
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
2223	744755,994	4707252,560	668,345
2224	744750,009	4707255,325	668,372
2225	744757,994	4707258,217	669,636
2226	744760,363	4707261,767	669,681
2227	744763,860	4707268,252	669,838
2228	744775,575	4707268,870	669,704
2229	744780,108	4707259,533	669,260
2230	744785,658	4707254,262	668,750
2231	744780,280	4707256,517	668,927
2232	744776,820	4707260,090	669,241
2233	744776,637	4707270,094	669,736
2234	744773,495	4707265,797	669,581

2235	744771,077	4707272,215	669,891
2236	744765,923	4707274,078	669,995
2237	744762,544	4707267,322	669,844
2238	744755,344	4707262,725	669,738
2239	744750,949	4707262,393	669,670
2240	744750,319	4707269,385	669,972
2241	744744,625	4707266,183	669,992
2242	744739,888	4707269,235	670,150
2243	744743,885	4707275,849	670,244
2244	744750,373	4707281,172	670,409
2245	744748,560	4707286,430	670,355
2246	744744,831	4707282,970	670,383
2247	744742,093	4707278,903	670,270
2248	744741,137	4707271,820	670,075
2249	744737,030	4707270,240	670,112
2250	744733,645	4707275,406	670,270
2251	744733,135	4707281,560	670,426
2252	744734,477	4707291,952	670,612
2253	744733,454	4707299,255	670,862
2254	744726,287	4707304,325	670,994
2255	744722,983	4707299,435	671,159
2256	744720,971	4707290,590	671,016
2257	744718,944	4707284,837	670,442
2258	744713,434	4707281,303	670,359
2259	744705,648	4707283,292	670,535
2260	744703,307	4707289,803	670,823
2261	744703,988	4707297,138	671,030
2262	744708,445	4707305,280	671,434
2263	744708,162	4707311,775	671,598
2264	744711,943	4707315,601	671,541
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
2265	744704,515	4707311,574	671,708
2266	744698,542	4707313,778	671,689
2267	744698,511	4707313,699	671,682
2268	744704,800	4707317,824	671,729
2269	744697,203	4707317,706	671,705
2270	744691,451	4707313,353	671,254
2271	744692,838	4707303,963	671,101
2272	744689,442	4707311,248	671,412
2273	744689,471	4707318,509	671,725
2274	744690,888	4707324,588	671,940
2275	744698,761	4707326,128	672,152
2276	744693,412	4707331,394	672,317

2277	744697,128	4707337,693	672,293
2278	744700,687	4707343,825	672,217
2279	744688,870	4707344,440	672,562
2280	744680,661	4707345,812	672,808
2281	744681,494	4707338,868	672,470
2282	744681,616	4707356,126	672,906
2283	744672,572	4707357,487	673,179
2284	744675,868	4707369,361	673,400
2285	744665,821	4707370,093	673,528
2286	744657,116	4707366,034	673,359
2287	744654,363	4707377,097	674,008
2288	744654,892	4707385,140	674,052
2289	744647,013	4707376,671	674,139
2290	744653,307	4707386,504	674,255
2291	744648,154	4707393,601	674,809
2292	744642,996	4707396,071	675,252
2293	744638,323	4707389,251	674,933
2294	744635,519	4707381,858	674,515
2295	744626,856	4707379,130	674,095
2296	744625,645	4707385,932	674,308
2297	744620,743	4707386,700	674,482
2298	744613,103	4707392,377	674,750
2299	744617,028	4707399,957	674,911
2300	744621,694	4707405,611	675,327
2301	744621,030	4707413,710	675,737
2302	744615,274	4707415,058	675,410
2303	744610,461	4707415,976	675,406
2304	744606,431	4707411,013	675,411
2305	744600,112	4707413,222	675,232
2306	744596,787	4707416,429	675,296
<b>Nombre</b>	<b>Coordenada X</b>	<b>Coordenada Y</b>	<b>Coordenada Z</b>
2307	744603,034	4707422,190	675,693
2308	744601,939	4707428,044	675,450
2309	744603,790	4707436,156	675,898
2310	744604,020	4707443,285	676,007
2311	744605,816	4707453,833	676,445
2312	744601,601	4707458,973	676,606
2313	744602,442	4707464,494	676,956
2314	744597,967	4707471,526	677,310
2315	744593,441	4707473,915	677,143
2316	744590,890	4707478,043	677,280
2317	744591,184	4707483,279	677,832
2318	744585,544	4707488,414	677,928

2319	744580,560	4707492,297	678,460
2320	744577,946	4707490,551	678,188
2321	744576,875	4707485,594	678,027
2322	744570,256	4707487,932	677,355
2323	744564,375	4707486,747	677,397
2324	744557,897	4707481,610	677,274
2325	744560,975	4707474,095	677,211
2326	744565,884	4707468,987	676,941
2327	744563,500	4707461,114	676,642
2328	744563,823	4707454,576	676,446
2329	744568,137	4707452,266	675,908
2330	744566,405	4707445,981	675,781
2331	744570,404	4707443,429	676,181
2332	744575,882	4707442,908	676,300
2333	744577,134	4707436,632	675,892
2334	744582,783	4707434,150	676,356
2335	744584,573	4707427,389	675,729
2336	744551,844	4707265,812	676,054
2337	744554,223	4707265,162	675,790
2338	744554,263	4707264,475	676,131
2339	744554,223	4707263,327	676,295
2340	744554,704	4707261,875	676,262
2341	744555,740	4707262,940	676,214
2342	744558,881	4707261,056	675,757
2343	744560,456	4707257,925	675,654
2344	744561,750	4707254,521	675,405
2345	744562,027	4707250,115	675,197
2346	744562,008	4707246,469	674,898
2347	744561,313	4707241,574	674,734
2348	744561,413	4707237,666	674,366
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2349	744561,890	4707232,555	673,912
2350	744562,059	4707226,982	673,583
2351	744563,171	4707218,965	673,187
2352	744565,165	4707211,866	672,783
2353	744567,196	4707203,708	672,624
2354	744567,275	4707196,883	672,323
2355	744566,968	4707192,923	672,111
2356	744566,010	4707189,144	671,915
2357	744564,902	4707185,432	671,764
2358	744563,649	4707182,281	671,628
2359	744565,653	4707180,871	671,588

2360	744566,452	4707182,104	671,635
2361	744567,637	4707184,817	671,701
2362	744568,343	4707186,872	671,777
2363	744568,711	4707188,774	671,843
2364	744568,900	4707190,543	671,961
2365	744569,451	4707189,605	671,902
2366	744571,085	4707187,847	671,787
2367	744573,453	4707186,616	671,639
2368	744575,333	4707185,770	671,505
2369	744578,407	4707185,279	671,167
2370	744583,019	4707184,732	670,799
2371	744586,943	4707184,679	670,637
2372	744591,052	4707184,565	670,450
2373	744594,388	4707184,541	670,201
2374	744599,687	4707184,584	669,631
2375	744602,771	4707183,782	669,109
2376	744604,218	4707182,609	668,719
2377	744606,087	4707182,913	668,013
2378	744605,374	4707182,003	668,038
2379	744602,132	4707182,384	669,846
2380	744601,759	4707182,974	669,921
2381	744600,995	4707183,092	670,086
2382	744600,453	4707183,268	670,156
2383	744595,712	4707183,515	670,382
2384	744595,338	4707181,843	670,402
2385	744592,921	4707181,202	670,399
2386	744589,353	4707180,743	670,510
2387	744583,924	4707182,399	670,785
2388	744581,435	4707179,040	670,887
2389	744581,931	4707175,604	670,779
2390	744581,363	4707171,099	670,296
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2391	744584,680	4707170,830	670,077
2392	744586,742	4707167,861	669,637
2393	744589,100	4707166,814	669,518
2394	744589,709	4707166,093	669,423
2395	744590,136	4707165,724	667,299
2396	744587,639	4707167,796	669,609
2397	744585,023	4707168,975	669,768
2398	744584,601	4707172,931	670,159
2399	744581,830	4707175,710	670,786
2400	744582,932	4707180,696	670,822

2401	744587,677	4707187,441	670,714
2402	744589,309	4707192,420	671,036
2403	744592,287	4707196,859	670,836
2404	744594,093	4707201,266	670,844
2405	744594,712	4707203,720	670,680
2406	744596,701	4707207,022	671,016
2407	744599,717	4707210,909	671,090
2408	744603,706	4707215,394	670,869
2409	744606,772	4707218,614	671,082
2410	744609,265	4707222,727	671,495
2411	744614,600	4707226,326	671,861
2412	744618,173	4707226,812	671,839
2413	744620,470	4707228,286	671,805
2414	744620,859	4707231,189	671,967
2415	744623,622	4707234,116	671,971
2416	744625,404	4707232,551	671,789
2417	744622,249	4707232,669	672,024
2418	744621,071	4707233,864	672,054
2419	744621,571	4707236,408	672,043
2420	744623,049	4707239,765	671,734
2421	744621,028	4707230,076	671,898
2422	744619,943	4707225,889	671,725
2423	744619,588	4707226,578	671,844
2424	744618,517	4707222,596	671,574
2425	744621,347	4707217,600	671,265
2426	744623,783	4707216,161	671,258
2427	744625,568	4707214,064	671,269
2428	744626,903	4707209,913	670,977
2429	744627,482	4707207,111	670,806
2430	744628,332	4707204,736	670,461
2431	744627,484	4707203,693	670,422
2432	744626,379	4707203,096	670,273
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2433	744623,058	4707201,698	670,141
2434	744620,103	4707200,028	670,206
2435	744617,626	4707198,636	670,295
2436	744616,782	4707197,545	670,287
2437	744615,614	4707196,683	670,166
2438	744612,344	4707193,857	670,287
2439	744610,103	4707191,644	670,063
2440	744608,464	4707190,190	670,239
2441	744612,716	4707191,202	669,156
2442	744615,170	4707190,946	668,044

2443	744616,524	4707195,440	669,285
2444	744620,347	4707199,152	669,629
2445	744627,841	4707203,232	669,461
2446	744632,563	4707207,674	669,964
2447	744632,188	4707209,097	670,267
2448	744631,526	4707208,965	670,914
2449	744630,947	4707211,088	671,016
2450	744631,840	4707211,071	670,121
2451	744629,142	4707217,969	670,822
2452	744628,364	4707217,565	671,002
2453	744625,950	4707219,311	671,370
2454	744623,506	4707221,469	671,599
2455	744622,055	4707225,774	671,593
2456	744619,483	4707228,896	671,880
2457	744614,522	4707226,564	671,852
2458	744610,205	4707224,212	671,613
2459	744606,840	4707221,179	671,360
2460	744603,533	4707219,221	671,000
2461	744599,078	4707216,580	671,298
2462	744608,510	4707229,684	671,944
2463	744608,741	4707233,585	672,040
2464	744608,008	4707236,927	672,139
2465	744608,199	4707240,028	672,244
2466	744608,211	4707240,097	672,249
2467	744608,918	4707245,687	672,502
2468	744607,662	4707249,495	672,554
2469	744606,151	4707251,792	672,550
2470	744604,900	4707255,864	672,690
2471	744602,421	4707258,927	672,703
2472	744599,792	4707262,748	672,848
2473	744598,330	4707266,287	672,907
2474	744597,268	4707269,284	673,033
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2475	744595,660	4707274,240	673,207
2476	744593,403	4707278,191	673,282
2477	744589,364	4707279,027	673,458
2478	744580,916	4707275,035	673,683
2479	744577,312	4707276,579	673,929
2480	744574,064	4707276,452	674,165
2481	744571,516	4707276,153	674,292
2482	744568,834	4707275,120	674,321
2483	744567,327	4707276,843	674,583
2484	744566,456	4707279,022	674,798

2485	744564,860	4707280,768	675,372
2486	744563,924	4707279,982	675,351
2487	744563,643	4707278,141	675,309
2488	744564,465	4707276,174	675,396
2489	744560,878	4707278,630	675,543
2490	744559,075	4707275,960	675,793
2491	744566,960	4707282,668	675,093
2492	744573,323	4707287,063	674,569
2493	744578,819	4707287,596	674,220
2494	744583,756	4707289,054	673,909
2495	744595,307	4707273,629	673,159
2496	744596,482	4707269,214	672,976
2497	744599,880	4707264,420	672,848
2498	744602,405	4707261,737	672,805
2499	744604,483	4707258,698	672,712
2500	744606,047	4707255,410	672,648
2501	744608,202	4707251,619	672,526
2502	744610,927	4707251,164	672,496
2503	744614,086	4707249,630	672,179
2504	744617,652	4707250,874	671,494
2505	744621,250	4707250,832	671,412
2506	744622,065	4707250,737	671,327
2507	744622,022	4707250,781	671,360
2508	744624,025	4707249,188	671,312
2509	744622,080	4707246,499	671,411
2510	744623,296	4707240,525	671,613
2511	744626,598	4707238,535	671,184
2512	744631,778	4707245,003	671,112
2513	744629,819	4707246,430	671,045
2514	744630,862	4707247,415	670,265
2515	744633,277	4707245,130	670,705
2516	744633,156	4707244,262	671,053
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2517	744637,719	4707240,192	670,946
2518	744639,227	4707240,762	670,056
2519	744641,957	4707240,870	669,952
2520	744644,860	4707238,378	669,963
2521	744644,865	4707236,512	669,890
2522	744644,067	4707235,442	670,597
2523	744650,085	4707235,902	669,555
2524	744650,467	4707234,345	669,697
2525	744649,570	4707231,856	670,609

2526	744651,793	4707227,230	670,358
2527	744651,998	4707228,332	670,135
2528	744653,272	4707231,333	669,733
2529	744656,534	4707232,263	669,076
2530	744658,317	4707229,904	668,992
2531	744662,116	4707226,852	668,616
2532	744660,084	4707225,661	670,121
2533	744661,886	4707225,391	668,902
2534	744665,259	4707226,450	668,296
2535	744667,254	4707225,808	668,141
2536	744670,631	4707226,107	668,122
2537	744673,029	4707224,198	667,909
2538	744670,834	4707221,467	667,982
2539	744671,324	4707220,830	667,737
2540	744668,004	4707218,026	667,638
2541	744661,524	4707216,536	667,682
2542	744660,828	4707217,664	668,303
2543	744659,405	4707218,282	668,421
2544	744657,327	4707217,601	668,425
2545	744656,209	4707217,078	668,407
2546	744653,851	4707216,002	668,365
2547	744655,508	4707215,256	667,655
2548	744652,796	4707215,421	668,397
2549	744657,499	4707218,254	668,517
2550	744659,380	4707218,220	668,441
2551	744663,642	4707219,282	668,383
2552	744670,300	4707223,791	668,159
2553	744673,669	4707225,315	667,759
2554	744670,153	4707230,091	667,985
2555	744667,774	4707229,787	668,082
2556	744663,758	4707230,457	668,050
2557	744663,308	4707237,100	668,193
2558	744664,031	4707238,897	668,779
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2559	744666,238	4707239,686	669,135
2560	744669,165	4707237,908	669,329
2561	744671,869	4707234,628	669,226
2562	744671,567	4707232,133	668,798
2563	744673,052	4707229,899	668,798
2564	744674,657	4707228,302	668,715
2565	744676,625	4707229,006	668,994
2566	744676,238	4707226,707	668,950



2567	744678,363	4707227,204	669,067
2568	744682,690	4707228,336	668,952
2569	744680,651	4707232,784	669,132
2570	744682,194	4707235,938	668,794
2571	744685,100	4707235,529	668,671
2572	744680,828	4707237,867	668,884
2573	744676,660	4707239,003	668,997
2574	744673,104	4707241,007	669,105
2575	744670,348	4707241,780	669,052
2576	744667,362	4707242,490	669,197
2577	744665,441	4707242,291	669,216
2578	744662,413	4707241,736	668,993
2579	744660,359	4707241,060	668,468
2580	744658,826	4707242,202	668,521
2581	744656,601	4707244,883	668,915
2582	744652,235	4707248,353	669,000
2583	744649,922	4707250,247	669,057
2584	744648,605	4707252,919	669,312
2585	744645,750	4707253,913	669,244
2586	744642,160	4707255,426	668,975
2587	744639,782	4707257,459	669,078
2588	744636,633	4707259,961	669,152
2589	744632,302	4707257,865	669,878
2590	744629,430	4707259,473	670,148
2591	744626,905	4707260,889	670,332
2592	744623,841	4707263,263	670,460
2593	744620,850	4707265,353	670,613
2594	744617,154	4707267,719	670,773
2595	744614,342	4707267,770	671,077
2596	744611,765	4707272,208	671,020
2597	744608,902	4707273,843	671,142
2598	744607,507	4707276,810	671,471
2599	744606,318	4707281,116	671,396
2600	744607,409	4707284,299	671,394
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2601	744607,656	4707289,732	671,354
2602	744605,281	4707380,677	674,197
2603	744605,998	4707379,448	674,366
2604	744607,849	4707376,983	674,319
2605	744609,270	4707375,441	674,357
2606	744611,953	4707373,023	674,438
2607	744615,771	4707369,061	674,257
2608	744618,549	4707366,952	674,174

2609	744621,433	4707363,847	673,948
2610	744624,346	4707361,355	673,933
2611	744628,604	4707358,896	673,802
2612	744633,444	4707355,810	673,624
2613	744639,217	4707353,172	673,421
2614	744644,014	4707352,238	673,232
2615	744649,069	4707351,629	673,170
2616	744652,546	4707350,006	672,975
2617	744656,529	4707347,650	672,769
2618	744658,895	4707346,174	672,783
2619	744662,650	4707343,723	672,474
2620	744666,183	4707340,429	672,120
2621	744667,966	4707336,031	671,948
2622	744672,502	4707332,761	671,647
2623	744673,992	4707329,209	671,650
2624	744674,611	4707325,397	671,581
2625	744676,861	4707318,099	671,287
2626	744677,661	4707313,658	671,079
2627	744678,317	4707307,621	670,920
2628	744679,035	4707301,957	670,520
2629	744678,638	4707293,556	671,427
2630	744677,613	4707295,749	671,347
2631	744675,550	4707294,921	671,497
2632	744674,525	4707298,331	671,365
2633	744672,688	4707297,829	671,576
2634	744672,946	4707300,331	671,595
2635	744672,096	4707301,898	671,637
2636	744672,960	4707304,368	672,045
2637	744672,166	4707306,724	672,018
2638	744669,005	4707311,201	672,229
2639	744666,337	4707310,692	672,360
2640	744663,356	4707309,636	672,232
2641	744667,250	4707313,921	672,155
2642	744664,935	4707314,271	672,431
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2643	744663,617	4707314,089	672,419
2644	744662,454	4707314,548	672,457
2645	744661,499	4707312,412	672,407
2646	744657,481	4707312,258	672,511
2647	744656,133	4707312,399	672,234
2648	744656,105	4707313,388	672,522
2649	744654,503	4707314,312	672,340
2650	744654,008	4707315,467	672,585

2651	744654,263	4707316,306	672,670
2652	744655,207	4707317,376	672,403
2653	744655,791	4707319,421	672,147
2654	744656,651	4707320,065	672,134
2655	744658,045	4707319,204	672,072
2656	744657,670	4707320,585	672,129
2657	744657,815	4707322,018	672,189
2658	744659,328	4707322,918	672,068
2659	744660,670	4707322,283	672,078
2660	744661,532	4707320,758	671,979
2661	744664,387	4707324,305	671,945
2662	744666,017	4707321,542	671,855
2663	744666,336	4707319,777	671,618
2664	744666,017	4707318,660	671,389
2665	744669,010	4707317,667	671,196
2666	744669,720	4707317,650	671,148
2667	744670,735	4707316,592	671,076
2668	744671,000	4707313,181	671,044
2669	744669,970	4707312,529	671,635
2670	744673,682	4707308,292	670,958
2671	744674,717	4707308,606	670,869
2672	744676,436	4707309,034	670,874
2673	744677,306	4707307,572	670,726
2674	744676,893	4707306,271	670,689
2675	744674,754	4707304,637	670,922
2676	744676,675	4707304,455	670,591
2677	744677,794	4707303,942	670,587
2678	744678,497	4707302,882	670,522
2679	744677,847	4707300,683	670,540
2680	744675,654	4707312,653	671,039
2681	744674,236	4707315,235	671,237
2682	744672,890	4707317,258	671,276
2683	744672,782	4707320,186	671,317
2684	744672,820	4707322,562	671,368
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2685	744673,387	4707325,758	671,495
2686	744671,733	4707326,494	671,501
2687	744669,442	4707327,168	671,569
2688	744667,393	4707327,352	671,644
2689	744665,454	4707326,665	671,897
2690	744663,541	4707327,432	672,080
2691	744662,092	4707328,724	672,128

2692	744660,439	4707330,289	672,170
2693	744657,492	4707330,413	672,260
2694	744655,666	4707329,003	672,436
2695	744660,712	4707332,285	672,270
2696	744661,222	4707333,877	672,064
2697	744661,326	4707336,690	671,843
2698	744662,230	4707337,870	671,912
2699	744663,350	4707338,959	671,964
2700	744663,970	4707340,314	672,194
2701	744663,013	4707341,200	672,407
2702	744662,645	4707342,871	672,471
2703	744661,623	4707344,017	672,648
2704	744660,348	4707343,286	672,413
2705	744658,803	4707344,447	672,527
2706	744656,411	4707344,846	672,560
2707	744656,096	4707346,139	672,745
2708	744656,236	4707347,897	672,817
2709	744652,255	4707350,283	673,021
2710	744651,240	4707349,640	673,010
2711	744649,974	4707349,145	672,996
2712	744649,114	4707347,372	673,039
2713	744648,433	4707344,906	672,807
2714	744647,854	4707343,290	672,810
2715	744646,027	4707342,394	672,999
2716	744642,304	4707341,087	673,223
2717	744638,802	4707338,314	673,325
2718	744637,946	4707336,264	673,092
2719	744635,293	4707337,743	673,211
2720	744634,648	4707339,722	673,254
2721	744633,418	4707339,848	673,359
2722	744633,148	4707342,854	673,526
2723	744634,309	4707343,627	673,511
2724	744637,422	4707344,520	673,326
2725	744637,863	4707345,815	673,411
2726	744624,577	4707345,475	673,607
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2727	744625,894	4707348,811	673,781
2728	744628,119	4707350,149	673,800
2729	744628,553	4707352,841	673,652
2730	744630,080	4707356,316	673,688
2731	744625,858	4707358,410	673,812
2732	744623,298	4707356,757	673,886

2733	744619,258	4707354,754	673,872
2734	744616,096	4707354,582	673,871
2735	744621,101	4707360,189	674,016
2736	744617,261	4707360,189	674,029
2737	744615,419	4707366,003	674,202
2738	744610,973	4707366,702	674,146
2739	744608,547	4707372,534	674,335
2740	744604,660	4707373,132	674,180
2741	744602,682	4707372,402	674,461
2742	744604,109	4707377,612	674,207
2743	744602,362	4707378,416	674,055
2744	744600,963	4707378,846	673,865
2745	744599,222	4707380,760	674,038
2746	744595,146	4707380,236	673,997
2747	744595,394	4707378,121	673,970
2748	744594,862	4707376,085	673,991
2749	744594,310	4707373,033	673,778
2750	744594,794	4707369,889	673,780
2751	744593,459	4707369,072	673,892
2752	744594,195	4707367,753	673,848
2753	744594,783	4707366,385	673,766
2754	744594,998	4707366,010	673,821
2755	744596,192	4707364,790	673,362
2756	744599,026	4707360,932	673,467
2757	744598,844	4707361,402	673,415
2758	744598,805	4707362,644	673,326
2759	744599,036	4707364,164	673,268
2760	744600,134	4707366,230	673,340
2761	744600,712	4707367,647	673,432
2762	744601,037	4707369,440	673,379
2763	744600,968	4707371,080	673,455
2764	744601,102	4707373,223	673,604
2765	744600,971	4707376,834	673,707
2766	744597,723	4707378,921	673,854
2767	744613,151	4707392,459	674,674
2768	744614,748	4707396,015	674,767
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2769	744616,308	4707399,672	674,854
2770	744617,419	4707402,853	674,788
2771	744626,478	4707395,756	674,721
2772	744643,826	4707381,738	674,084
2773	744649,241	4707379,489	674,056
2774	744653,881	4707377,903	673,942

2775	744659,386	4707375,895	673,782
2776	744664,342	4707374,357	673,595
2777	744669,034	4707371,819	673,431
2778	744675,079	4707369,364	673,312
2779	744679,701	4707366,217	673,104
2780	744685,428	4707362,900	672,824
2781	744691,005	4707361,535	673,480
2782	744698,006	4707358,757	673,404
2783	744700,866	4707355,742	673,017
2784	744703,831	4707351,906	672,566
2785	744705,083	4707347,859	672,216
2786	744705,104	4707344,867	672,095
2787	744709,368	4707341,910	671,915
2788	744714,079	4707340,906	672,197
2789	744714,663	4707340,853	672,267
2790	744716,083	4707339,927	672,206
2791	744713,848	4707340,271	672,161
2792	744717,782	4707336,914	672,014
2793	744721,585	4707333,738	671,601
2794	744726,648	4707330,778	671,784
2795	744725,890	4707327,944	671,157
2796	744725,762	4707326,257	670,745
2797	744725,164	4707325,077	670,604
2798	744724,901	4707323,618	670,579
2799	744724,817	4707322,518	670,956
2800	744724,677	4707321,181	671,223
2801	744725,439	4707319,757	671,220
2802	744726,715	4707318,023	671,166
2803	744727,635	4707316,312	671,135
2804	744726,676	4707314,938	671,162
2805	744725,306	4707314,706	671,029
2806	744723,063	4707313,939	670,783
2807	744720,206	4707313,515	671,065
2808	744718,598	4707310,967	671,215
2809	744727,819	4707339,746	672,203
2810	744727,125	4707344,313	672,246
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2811	744727,340	4707347,934	672,337
2812	744729,175	4707351,292	672,347
2813	744731,685	4707354,652	672,543
2814	744732,439	4707358,152	672,636
2815	744734,712	4707361,210	672,748
2816	744738,305	4707360,673	672,763

2817	744735,672	4707370,261	674,226
2818	744733,252	4707367,368	673,343
2819	744729,519	4707365,035	672,979
2820	744725,440	4707364,966	672,900
2821	744723,398	4707368,478	673,168
2822	744724,374	4707371,376	673,422
2823	744727,176	4707376,921	674,682
2824	744717,670	4707384,390	674,170
2825	744711,390	4707387,109	674,277
2826	744704,241	4707397,286	674,957
2827	744695,953	4707402,932	674,998
2828	744687,317	4707414,708	675,523
2829	744677,880	4707419,994	675,587
2830	744670,858	4707426,435	676,193
2831	744666,671	4707433,111	676,952
2832	744663,045	4707438,013	676,746
2833	744657,493	4707441,717	676,558
2834	744657,660	4707447,669	676,758
2835	744656,165	4707453,637	676,961
2836	744658,019	4707458,973	677,142
2837	744655,390	4707462,640	677,263
2838	744651,444	4707466,178	677,502
2839	744648,356	4707470,969	677,817
2840	744644,623	4707473,344	677,908
2841	744640,557	4707471,368	677,748
2842	744638,274	4707474,030	677,787
2843	744634,581	4707476,352	677,876
2844	744634,558	4707482,872	678,021
2845	744635,242	4707488,436	678,182
2846	744634,373	4707493,817	678,391
2847	744632,844	4707497,822	678,526
2848	744627,183	4707496,013	678,728
2849	744625,928	4707493,463	678,587
2850	744625,650	4707490,709	678,558
2851	744624,539	4707488,695	678,249
2852	744622,151	4707488,981	677,909
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2853	744617,908	4707490,716	677,929
2854	744616,052	4707489,070	677,776
2855	744616,368	4707485,348	677,610
2856	744616,476	4707481,946	677,594
2857	744613,579	4707479,857	677,573

2858	744608,520	4707479,623	677,676
2859	744608,287	4707464,654	676,907
2860	744609,426	4707465,062	676,418
2861	744612,184	4707463,292	676,304
2862	744608,588	4707468,067	676,455
2863	744609,941	4707469,550	676,453
2864	744606,735	4707469,659	676,957
2865	744604,180	4707473,925	677,244
2866	744604,550	4707475,461	676,948
2867	744606,365	4707478,451	676,799
2868	744607,611	4707480,046	677,664
2869	744602,794	4707486,017	677,711
2870	744600,931	4707485,961	677,046
2871	744598,158	4707485,757	677,044
2872	744596,591	4707485,064	677,719
2873	744592,197	4707484,517	677,859
2874	744599,960	4707488,268	677,872
2875	744596,637	4707493,492	677,982
2876	744594,809	4707496,257	678,178
2877	744593,243	4707491,545	677,530
2878	744594,060	4707492,522	677,051
2879	744595,089	4707493,293	677,098
2880	744588,341	4707497,890	677,905
2881	744588,690	4707499,007	677,735
2882	744588,992	4707500,662	677,773
2883	744588,831	4707502,995	677,932
2884	744589,023	4707504,545	678,158
2885	744589,257	4707506,348	678,237
2886	744586,738	4707509,257	678,255
2887	744585,039	4707509,523	678,058
2888	744583,628	4707509,199	678,078
2889	744583,024	4707510,263	678,039
2890	744591,203	4707510,125	679,078
2891	744591,514	4707510,260	679,132
2892	744590,697	4707510,831	679,071
2893	744591,031	4707511,046	679,157
2894	744590,344	4707511,378	679,465
Nombre	Coordenada X	Coordenada Y	Coordenada Z
2895	744590,257	4707511,504	679,464
2896	744593,081	4707520,593	685,739
2897	744593,113	4707519,975	685,578
2898	744588,006	4707520,286	685,785

2899	744588,043	4707519,668	685,763
2900	744586,940	4707520,148	685,787
2901	744586,981	4707519,684	685,831
2902	744592,473	4707521,650	685,802
2903	744591,979	4707521,793	685,827
2904	744587,081	4707521,277	685,877
2905	744587,036	4707521,066	685,872
2906	744585,879	4707519,691	685,848
2907	744592,355	4707521,357	685,652
2908	744589,244	4707528,808	685,222
2909	744589,300	4707528,372	685,631
2910	744587,328	4707528,118	685,665
2911	744586,292	4707527,897	685,735
2912	744586,254	4707528,290	685,654
2913	744589,444	4707527,338	685,779
2914	744589,402	4707527,071	685,819



## 5.7.2. Sistema de referencia: ETRS89 UTM HUSO 30

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1	744482,437	4707314,171	685,897
2	744477,921	4707317,823	685,720
3	744477,402	4707316,851	685,824
4	744478,708	4707316,777	685,828
5	744478,676	4707316,518	685,852
6	744478,025	4707310,382	685,806
7	744478,618	4707309,848	685,835
8	744464,052	4707307,957	685,816
9	744463,905	4707308,862	685,841
10	744463,899	4707309,125	685,876
11	744463,862	4707309,350	685,881
12	744459,806	4707314,551	685,855
13	744459,706	4707314,779	685,833
14	744459,578	4707314,862	685,797
15	744459,433	4707315,777	685,784
16	744459,419	4707314,877	685,796
17	744416,072	4707311,087	685,847
18	744416,144	4707310,626	685,935
19	744417,167	4707310,720	685,881
20	744417,278	4707311,093	685,817
21	744417,184	4707310,023	685,948
22	744417,200	4707309,899	685,961
23	744414,834	4707309,460	686,041
24	744414,899	4707309,617	686,035
25	744411,791	4707308,949	686,154
26	744411,846	4707308,712	686,159
27	744408,562	4707307,709	686,317
28	744408,502	4707308,060	686,299
29	744403,934	4707306,130	686,566
30	744404,061	4707305,793	686,564
31	744401,121	4707303,925	686,674
32	744400,963	4707304,324	686,663
33	744397,387	4707301,094	686,849
34	744397,578	4707300,764	686,840
35	744394,700	4707297,100	686,962
36	744394,436	4707297,410	686,971
37	744392,595	4707294,106	687,093
38	744392,651	4707293,434	687,099
39	744391,438	4707290,355	687,213
40	744391,110	4707290,552	687,190

Nombre	Coordenada X	Coordenada Y	Coordenada Z
41	744389,934	4707286,331	687,321
42	744390,366	4707286,148	687,322
43	744389,737	4707280,921	687,457
44	744389,478	4707280,924	687,445
45	744418,381	4707303,808	685,819
46	744418,063	4707303,201	685,828
47	744416,994	4707303,104	685,714
48	744417,034	4707302,633	685,665
49	744418,028	4707303,209	685,818
50	744417,442	4707304,046	685,880
51	744417,333	4707304,178	685,890
52	744416,818	4707303,512	685,752
53	744414,191	4707303,003	685,792
54	744408,732	4707301,672	686,042
55	744408,329	4707301,374	686,053
56	744408,217	4707300,964	686,070
57	744408,725	4707299,118	686,088
58	744403,105	4707298,341	686,364
59	744401,629	4707296,666	686,439
60	744399,614	4707294,189	686,606
61	744396,647	4707288,731	686,909
62	744394,989	4707281,773	687,228
63	744394,835	4707278,140	687,364
64	744394,953	4707272,038	687,510
65	744395,377	4707261,652	687,840
66	744395,724	4707253,353	687,936
67	744390,707	4707249,527	688,109
68	744396,444	4707235,464	688,377
69	744391,500	4707229,753	688,559
70	744397,006	4707219,959	688,816
71	744397,385	4707210,007	689,049
72	744397,747	4707199,790	689,308
73	744392,819	4707197,864	689,362
74	744398,187	4707188,319	689,618
75	744398,611	4707177,090	689,902
76	744398,929	4707167,374	690,165
77	744398,933	4707157,825	690,437
78	744398,743	4707148,982	690,637
79	744398,123	4707142,046	690,728
80	744397,008	4707134,510	690,694
81	744395,840	4707128,774	690,634

Nombre	Coordenada X	Coordenada Y	Coordenada Z
82	744394,233	4707122,888	690,570
83	744393,004	4707118,978	690,528
84	744387,701	4707119,384	690,390
85	744390,178	4707110,914	690,423
86	744387,237	4707102,660	690,323
87	744382,884	4707090,450	690,124
88	744377,658	4707075,937	690,036
89	744373,430	4707064,168	689,974
90	744368,765	4707050,932	689,894
91	744362,170	4707032,031	689,865
92	744360,175	4707026,271	689,833
93	744357,616	4707018,981	689,806
94	744355,620	4707013,273	689,773
95	744352,688	4707005,653	689,722
96	744349,690	4706998,948	689,680
97	744347,644	4706994,889	689,644
98	744345,343	4706990,693	689,594
99	744342,427	4706985,905	689,522
100	744339,165	4706989,765	689,406
101	744445,457	4707058,606	676,454
102	744448,482	4707056,725	676,262
103	744451,783	4707054,378	676,080
104	744454,614	4707051,592	675,805
105	744456,488	4707048,051	675,576
106	744457,036	4707045,020	675,477
107	744457,520	4707041,656	675,218
108	744457,573	4707035,861	674,766
109	744457,492	4707031,452	674,579
110	744456,974	4707025,277	674,166
111	744457,565	4707018,831	673,705
112	744458,365	4707011,966	673,318
113	744459,723	4707004,570	672,956
114	744462,054	4706997,184	672,679
115	744462,604	4706989,921	672,300
116	744462,681	4706984,942	672,124
117	744458,859	4706959,735	671,051
118	744486,189	4706990,628	670,758
119	744463,863	4706982,929	671,958
120	744466,450	4706979,230	671,802
121	744471,704	4706977,608	671,095
122	744478,137	4706977,506	670,844
123	744483,223	4706977,665	670,605

Nombre	Coordenada X	Coordenada Y	Coordenada Z
124	744487,224	4706977,505	670,551
125	744490,690	4706977,068	670,381
126	744494,905	4706976,188	669,965
127	744497,621	4706974,475	668,943
128	744497,929	4706976,839	669,977
129	744495,209	4706978,812	670,036
130	744490,735	4706979,796	670,628
131	744485,715	4706982,196	670,857
132	744481,702	4706982,759	671,108
133	744476,659	4706984,717	671,273
134	744473,152	4706982,539	671,311
135	744469,850	4706981,858	671,465
136	744469,477	4706985,769	671,705
137	744466,037	4706987,821	672,015
138	744464,988	4706991,530	672,138
139	744464,714	4706994,977	672,190
140	744464,375	4706997,554	672,166
141	744467,448	4706996,556	672,033
142	744471,517	4706996,709	671,909
143	744472,627	4706992,530	671,701
144	744476,249	4706990,398	671,348
145	744480,703	4706989,078	671,077
146	744484,685	4706987,077	670,863
147	744489,534	4706984,709	670,528
148	744492,016	4706983,800	670,439
149	744496,740	4706980,814	670,272
150	744498,137	4706980,154	670,199
151	744501,818	4706981,458	669,896
152	744503,066	4706984,185	670,305
153	744501,064	4706987,121	670,363
154	744497,503	4706990,098	670,476
155	744492,214	4706992,425	670,770
156	744487,128	4706997,935	671,154
157	744482,187	4707000,421	671,438
158	744476,468	4707002,499	671,690
159	744472,776	4707001,819	671,958
160	744470,313	4707006,302	672,394
161	744465,743	4707004,949	672,413
162	744462,275	4707007,444	672,557
163	744462,083	4707011,695	672,818
164	744464,792	4707013,659	672,763
165	744469,567	4707012,932	672,558

Nombre	Coordenada X	Coordenada Y	Coordenada Z
166	744470,116	4707017,392	672,586
167	744464,450	4707021,095	672,969
168	744460,114	4707023,825	673,084
169	744464,809	4707026,024	673,087
170	744469,716	4707024,125	672,568
171	744472,509	4707020,707	672,566
172	744476,222	4707017,119	672,220
173	744481,302	4707015,124	671,902
174	744487,078	4707010,578	671,530
175	744492,065	4707007,613	671,301
176	744494,552	4707004,336	671,160
177	744498,821	4707001,192	670,755
178	744501,882	4706998,538	670,965
179	744501,848	4706992,689	670,678
180	744503,018	4706986,788	670,464
181	744504,893	4706984,384	670,301
182	744508,625	4706987,778	670,372
183	744509,846	4706989,474	670,405
184	744506,572	4706991,807	670,709
185	744501,756	4706994,811	670,772
186	744495,912	4706999,072	670,709
187	744488,502	4707002,989	671,352
188	744483,319	4707006,780	671,652
189	744478,915	4707012,261	672,123
190	744471,571	4707016,355	672,505
191	744468,855	4707020,801	672,757
192	744461,285	4707028,813	673,116
193	744462,574	4707033,174	672,922
194	744462,582	4707036,709	673,236
195	744465,111	4707032,408	672,946
196	744469,888	4707028,629	672,654
197	744475,834	4707029,114	672,518
198	744480,789	4707025,314	672,298
199	744486,592	4707023,791	671,963
200	744490,868	4707018,070	671,710
201	744496,266	4707020,591	671,860
202	744495,003	4707025,396	672,118
203	744492,390	4707031,025	672,417
204	744491,343	4707036,433	672,626
205	744488,359	4707039,597	672,549
206	744486,232	4707045,269	672,787

Nombre	Coordenada X	Coordenada Y	Coordenada Z
207	744483,610	4707051,268	673,006
208	744480,924	4707056,713	673,097
209	744477,913	4707063,360	673,428
210	744474,160	4707068,269	673,846
211	744469,596	4707073,109	674,393
212	744464,900	4707076,787	674,778
213	744461,253	4707079,496	675,136
214	744456,590	4707083,270	675,222
215	744457,916	4707088,327	675,060
216	744457,906	4707092,689	674,986
217	744456,565	4707096,933	675,134
218	744462,482	4707097,899	674,551
219	744466,767	4707100,274	674,253
220	744468,664	4707095,579	674,271
221	744472,148	4707090,812	674,194
222	744475,862	4707081,997	674,086
223	744477,254	4707073,039	673,815
224	744484,172	4707064,632	673,313
225	744487,955	4707055,473	672,980
226	744521,768	4707030,322	670,322
227	744527,974	4707029,019	671,075
228	744531,285	4707025,850	671,136
229	744532,325	4707021,981	670,688
230	744529,039	4707019,104	670,445
231	744530,182	4707015,353	670,318
232	744535,213	4707015,812	670,422
233	744534,613	4707012,285	670,139
234	744538,933	4707017,566	670,194
235	744539,086	4707020,845	670,384
236	744541,102	4707020,684	670,653
237	744543,734	4707019,457	670,171
238	744545,776	4707017,400	670,437
239	744545,849	4707017,467	670,441
240	744545,007	4707014,547	670,156
241	744546,848	4707012,561	670,113
242	744543,559	4707013,377	670,123
243	744551,308	4707014,603	670,002
244	744551,409	4707016,962	670,249
245	744553,425	4707015,052	670,071
246	744551,854	4707013,745	670,050
247	744547,622	4707010,988	669,948

Nombre	Coordenada X	Coordenada Y	Coordenada Z
248	744539,995	4707007,460	669,981
249	744536,663	4707008,043	670,012
250	744532,297	4707006,582	669,990
251	744529,753	4707010,137	670,042
252	744534,571	4707013,994	670,190
253	744537,791	4707014,715	670,134
254	744535,412	4707017,106	670,616
255	744533,378	4707019,561	670,642
256	744531,597	4707022,171	670,836
257	744530,711	4707024,878	671,126
258	744527,808	4707028,749	671,106
259	744563,480	4707026,861	669,170
260	744559,968	4707028,050	669,133
261	744557,119	4707027,465	668,595
262	744554,800	4707030,743	668,797
263	744553,971	4707035,328	669,175
264	744550,385	4707038,986	669,273
265	744546,706	4707038,347	669,055
266	744542,761	4707039,544	669,038
267	744536,334	4707040,533	668,887
268	744532,878	4707044,024	668,957
269	744531,718	4707046,826	669,175
270	744530,913	4707050,318	669,351
271	744526,016	4707051,647	669,399
272	744522,365	4707053,760	669,696
273	744523,562	4707057,472	669,382
274	744519,462	4707058,856	669,655
275	744516,062	4707061,002	669,834
276	744516,380	4707063,815	669,519
277	744514,832	4707065,818	669,443
278	744512,310	4707065,320	669,755
279	744510,737	4707063,105	670,450
280	744509,036	4707066,147	670,268
281	744509,577	4707069,692	669,905
282	744508,530	4707071,993	670,177
283	744506,017	4707071,736	670,172
284	744504,583	4707075,084	670,508
285	744503,528	4707079,109	671,185
286	744500,884	4707085,736	671,692
287	744495,357	4707163,312	674,389
288	744495,872	4707158,198	674,317
289	744493,956	4707154,706	674,039

Nombre	Coordenada X	Coordenada Y	Coordenada Z
290	744493,203	4707150,864	673,871
291	744494,241	4707146,547	673,766
292	744494,399	4707141,892	673,564
293	744496,909	4707134,556	673,334
294	744499,729	4707129,537	673,162
295	744503,489	4707124,230	672,951
296	744506,250	4707121,480	672,997
297	744525,294	4707104,768	672,120
298	744529,608	4707101,622	672,203
299	744534,010	4707098,129	672,417
300	744539,729	4707093,653	672,146
301	744545,046	4707090,959	671,744
302	744553,469	4707090,666	671,523
303	744550,308	4707092,310	671,547
304	744548,033	4707094,872	671,633
305	744543,936	4707095,748	672,027
306	744544,328	4707099,035	671,934
307	744546,719	4707101,138	672,135
308	744547,938	4707102,224	672,050
309	744549,429	4707103,897	672,584
310	744546,948	4707106,054	672,675
311	744544,321	4707101,484	671,842
312	744540,225	4707099,388	672,199
313	744535,275	4707101,670	672,471
314	744536,048	4707105,934	672,413
315	744540,612	4707109,087	672,492
316	744543,984	4707113,077	672,510
317	744545,115	4707116,832	672,570
318	744538,862	4707118,775	672,604
319	744536,563	4707116,813	672,748
320	744534,907	4707113,584	672,840
321	744532,052	4707110,354	672,773
322	744529,509	4707106,737	672,992
323	744526,384	4707109,824	672,929
324	744525,473	4707112,829	673,078
325	744527,792	4707116,293	673,090
326	744531,854	4707119,114	673,011
327	744538,313	4707120,775	672,699
328	744545,210	4707118,381	672,557
329	744540,596	4707122,709	672,785
330	744536,139	4707119,366	672,578
331	744532,670	4707116,978	672,873

Nombre	Coordenada X	Coordenada Y	Coordenada Z
332	744528,110	4707115,507	673,065
333	744525,136	4707114,075	673,073
334	744521,109	4707116,837	673,165
335	744518,336	4707115,734	672,467
336	744514,930	4707113,464	672,317
337	744509,991	4707116,705	672,442
338	744510,387	4707120,464	672,629
339	744516,842	4707119,075	672,749
340	744520,044	4707122,574	673,505
341	744520,435	4707126,951	673,593
342	744521,952	4707129,526	673,241
343	744519,268	4707132,856	673,457
344	744516,140	4707135,377	673,671
345	744513,424	4707131,184	673,802
346	744510,559	4707127,985	673,198
347	744507,247	4707124,414	672,774
348	744504,825	4707126,467	672,896
349	744505,816	4707131,907	673,230
350	744510,639	4707133,641	673,660
351	744513,496	4707136,672	673,754
352	744511,403	4707139,342	673,758
353	744507,780	4707141,372	673,948
354	744506,202	4707138,469	673,753
355	744504,103	4707135,416	673,479
356	744499,190	4707135,320	673,401
357	744500,822	4707138,970	673,569
358	744501,569	4707141,853	673,756
359	744503,985	4707146,307	674,253
360	744499,292	4707146,002	673,860
361	744495,896	4707146,581	673,806
362	744495,722	4707150,391	673,865
363	744497,402	4707153,076	674,168
364	744499,777	4707154,696	674,358
365	744497,684	4707157,956	674,480
366	744513,572	4707187,109	674,688
367	744519,330	4707184,327	674,676
368	744524,829	4707184,742	674,751
369	744526,861	4707179,123	674,322
370	744538,525	4707170,983	674,084
371	744541,710	4707163,409	673,788
372	744546,325	4707161,706	673,731

Nombre	Coordenada X	Coordenada Y	Coordenada Z
373	744553,757	4707157,654	673,322
374	744557,445	4707152,179	673,302
375	744560,064	4707148,256	673,203
376	744567,841	4707149,925	672,981
377	744574,609	4707146,102	672,878
378	744579,973	4707140,255	672,487
379	744582,463	4707134,384	672,427
380	744583,096	4707125,981	672,365
381	744586,693	4707123,361	672,239
382	744591,149	4707128,406	672,079
383	744601,940	4707124,349	671,674
384	744603,678	4707118,358	671,570
385	744609,416	4707114,344	671,653
386	744608,434	4707105,346	671,313
387	744611,252	4707098,484	671,172
388	744621,530	4707122,555	672,109
389	744622,489	4707130,690	672,193
390	744620,296	4707136,433	672,306
391	744618,442	4707140,104	672,476
392	744613,622	4707144,999	672,776
393	744607,995	4707149,665	672,978
394	744605,297	4707155,160	673,154
395	744601,091	4707158,875	673,436
396	744594,208	4707159,458	673,671
397	744591,319	4707166,873	673,972
398	744583,630	4707168,154	673,921
399	744578,021	4707175,882	674,199
400	744578,076	4707179,765	674,351
401	744574,884	4707182,888	674,497
402	744569,971	4707188,890	674,851
403	744567,155	4707193,143	674,748
404	744566,100	4707198,516	674,977
405	744562,428	4707204,855	675,234
406	744556,566	4707210,939	675,571
407	744550,083	4707216,408	675,688
408	744546,822	4707223,052	675,954
409	744543,262	4707226,956	676,042
410	744540,739	4707231,534	676,393
411	744537,274	4707230,386	676,330
412	744532,712	4707232,433	676,464
413	744536,714	4707239,614	676,650



Nombre	Coordenada X	Coordenada Y	Coordenada Z
414	744530,598	4707242,987	676,914
415	744528,355	4707250,382	677,248
416	744526,559	4707257,598	677,488
417	744519,672	4707262,689	677,995
418	744516,142	4707264,487	678,044
419	744509,156	4707265,957	677,475
420	744502,969	4707268,379	677,572
421	744499,488	4707274,200	677,707
422	744518,474	4707245,269	677,179
423	744517,833	4707240,250	676,888
424	744517,818	4707235,099	676,698
425	744507,019	4707217,039	676,166
426	744505,792	4707223,967	676,393
427	744508,183	4707232,015	676,890
428	744509,608	4707239,199	677,196
429	744509,643	4707243,650	677,268
430	744508,058	4707250,377	677,016
431	744506,200	4707256,873	677,069
432	744479,733	4707291,149	677,949
433	744476,176	4707292,100	678,402
434	744471,730	4707298,513	678,789
435	744472,316	4707301,446	678,599
436	744472,299	4707301,470	678,615
437	744472,388	4707303,711	678,776
438	744466,302	4707305,095	679,549
439	744466,138	4707301,791	679,139
440	744468,647	4707299,735	678,960
441	744470,834	4707297,879	678,703
442	744466,869	4707295,306	678,904
443	744464,696	4707293,746	678,327
444	744460,938	4707291,972	677,581
445	744457,100	4707292,334	677,614
446	744456,907	4707297,456	677,936
447	744457,561	4707300,977	678,190
448	744455,720	4707304,548	678,734
449	744453,131	4707300,924	678,383
450	744451,470	4707299,646	677,838
451	744451,464	4707291,225	677,771
452	744458,157	4707292,179	677,612
453	744458,784	4707286,466	677,571
454	744463,939	4707283,526	677,539
455	744468,970	4707282,418	678,091

Nombre	Coordenada X	Coordenada Y	Coordenada Z
456	744474,264	4707280,220	678,057
457	744477,712	4707277,201	677,861
458	744476,688	4707272,598	677,860
459	744470,267	4707273,148	678,019
460	744467,108	4707276,072	677,643
461	744463,874	4707277,525	677,232
462	744457,331	4707278,652	677,392
463	744450,333	4707275,553	677,337
464	744455,669	4707271,472	677,415
465	744460,883	4707269,733	676,981
466	744464,624	4707267,179	676,926
467	744464,731	4707264,764	676,806
468	744466,406	4707265,448	677,765
469	744469,677	4707263,356	677,556
470	744474,280	4707267,953	677,914
471	744478,841	4707265,003	677,611
472	744480,013	4707262,722	677,464
473	744483,877	4707260,286	677,331
474	744482,917	4707255,899	677,449
475	744478,943	4707255,608	677,072
476	744475,730	4707254,310	676,851
477	744473,343	4707252,733	677,106
478	744469,207	4707251,661	677,214
479	744466,154	4707250,967	677,164
480	744465,988	4707247,284	677,045
481	744464,400	4707247,683	676,243
482	744463,622	4707251,721	676,069
483	744459,554	4707254,509	676,643
484	744455,729	4707260,730	677,025
485	744458,025	4707253,169	676,592
486	744459,120	4707248,964	676,505
487	744463,821	4707250,753	676,095
488	744463,983	4707246,771	676,151
489	744466,614	4707248,509	677,048
490	744470,995	4707251,339	677,124
491	744474,045	4707248,983	677,141
492	744479,843	4707245,805	676,357
493	744483,900	4707244,753	676,525
494	744487,632	4707247,308	676,637
495	744494,698	4707248,378	676,543
496	744500,887	4707247,121	676,724
497	744502,853	4707239,508	676,135

Nombre	Coordenada X	Coordenada Y	Coordenada Z
498	744500,299	4707235,567	676,221
499	744496,270	4707233,595	675,865
500	744493,305	4707233,151	676,160
501	744489,570	4707230,984	676,170
502	744485,757	4707229,659	676,115
503	744481,502	4707229,817	676,162
504	744474,859	4707228,848	676,314
505	744472,657	4707227,342	676,255
506	744469,300	4707228,978	675,845
507	744467,649	4707234,066	676,017
508	744465,799	4707238,744	676,214
509	744461,933	4707242,744	675,858
510	744458,377	4707242,663	676,310
511	744455,699	4707239,660	676,165
512	744457,568	4707237,004	676,047
513	744460,468	4707233,310	675,587
514	744462,590	4707232,561	676,103
515	744465,393	4707229,099	676,029
516	744468,699	4707225,418	675,870
517	744471,736	4707225,849	675,871
518	744474,919	4707220,877	675,721
519	744477,151	4707216,197	675,503
520	744479,624	4707212,205	675,346
521	744481,108	4707212,639	675,849
522	744483,681	4707216,353	675,600
523	744483,559	4707222,948	675,843
524	744479,810	4707228,025	676,168
525	744484,455	4707224,135	675,731
526	744488,905	4707221,829	675,930
527	744491,443	4707220,393	675,905
528	744492,405	4707217,720	675,205
529	744494,071	4707215,181	675,361
530	744492,915	4707210,210	675,337
531	744488,421	4707208,833	675,205
532	744486,113	4707207,771	675,652
533	744490,666	4707205,125	675,322
534	744495,183	4707200,187	675,010
535	744496,286	4707198,194	675,102
536	744501,830	4707196,530	675,196
537	744504,815	4707193,970	675,172
538	744510,099	4707194,438	674,851

Nombre	Coordenada X	Coordenada Y	Coordenada Z
539	744514,395	4707188,495	674,772
540	744508,441	4707183,423	674,704
541	744509,926	4707178,888	674,601
542	744513,730	4707177,159	674,478
543	744518,623	4707175,471	674,251
544	744519,410	4707170,553	674,029
545	744341,994	4706995,274	689,450
546	744345,047	4707001,155	689,497
547	744347,941	4707007,626	689,548
548	744350,795	4707015,045	689,604
549	744354,044	4707024,322	689,674
550	744357,315	4707033,718	689,744
551	744360,615	4707043,175	689,816
552	744364,129	4707053,240	689,891
553	744368,588	4707065,891	689,986
554	744372,821	4707077,675	690,075
555	744378,046	4707092,184	690,185
556	744382,396	4707104,385	690,277
557	744385,333	4707112,626	690,339
558	744389,301	4707124,336	690,322
559	744390,838	4707129,965	690,247
560	744391,945	4707135,400	690,175
561	744393,017	4707142,651	690,079
562	744393,609	4707149,267	689,993
563	744393,794	4707157,879	689,881
564	744393,790	4707167,289	689,759
565	744393,475	4707176,909	689,634
566	744393,052	4707188,125	689,489
567	744371,228	4707056,211	684,800
568	744372,564	4707051,400	684,800
569	744374,353	4707046,751	684,800
570	744378,351	4707044,154	684,800
571	744383,325	4707043,734	684,800
572	744387,857	4707042,934	684,800
573	744383,322	4707040,987	684,800
574	744378,562	4707039,487	684,800
575	744379,299	4707035,291	684,800
576	744383,851	4707033,584	684,800
577	744388,846	4707033,611	684,800
578	744393,844	4707033,685	684,800
579	744398,776	4707034,455	684,800

Nombre	Coordenada X	Coordenada Y	Coordenada Z
580	744397,789	4707030,455	684,800
581	744394,967	4707026,334	684,800
582	744394,550	4707022,221	684,800
583	744421,750	4707146,913	684,800
584	744421,784	4707141,922	684,800
585	744421,739	4707136,925	684,800
586	744421,488	4707131,932	684,800
587	744420,148	4707127,148	684,800
588	744418,687	4707122,418	684,800
589	744419,820	4707117,613	684,800
590	744417,494	4707113,226	684,800
591	744415,309	4707108,750	684,800
592	744413,615	4707104,051	684,800
593	744412,177	4707099,263	684,800
594	744410,854	4707094,443	684,800
595	744409,391	4707089,663	684,800
596	744407,289	4707085,136	684,800
597	744405,446	4707080,489	684,800
598	744403,428	4707075,927	684,800
599	744401,926	4707071,179	684,800
600	744401,220	4707066,238	684,800
601	744398,890	4707062,727	684,800
602	744393,920	4707062,240	684,800
603	744389,071	4707061,083	684,800
604	744384,155	4707060,246	684,800
605	744379,265	4707059,236	684,800
606	744374,422	4707058,283	684,800
607	744449,593	4707125,617	678,800
608	744446,901	4707121,412	678,800
609	744444,842	4707116,880	678,800
610	744442,924	4707112,271	678,800
611	744440,297	4707108,067	678,800
612	744439,169	4707103,313	678,800
613	744438,476	4707098,405	678,800
614	744436,764	4707093,722	678,800
615	744435,113	4707089,006	678,800
616	744433,574	4707084,253	678,800
617	744432,127	4707079,477	678,800
618	744430,682	4707074,698	678,800
619	744428,045	4707070,480	678,800
620	744427,444	4707065,521	678,800
621	744426,775	4707060,576	678,800

Nombre	Coordenada X	Coordenada Y	Coordenada Z
622	744424,197	4707056,432	678,800
623	744419,233	4707056,101	678,800
624	744414,238	4707056,007	678,800
625	744409,718	4707055,101	678,800
626	744413,496	4707052,853	678,800
627	744418,477	4707052,470	678,800
628	744420,840	4707050,500	678,800
629	744442,206	4707132,756	679,800
630	744443,087	4707127,924	679,800
631	744445,195	4707123,673	679,800
632	744443,910	4707118,861	679,800
633	744441,948	4707114,293	679,800
634	744438,567	4707110,745	679,800
635	744435,261	4707107,052	679,800
636	744435,366	4707102,075	679,800
637	744435,641	4707097,102	679,800
638	744434,496	4707092,252	679,800
639	744432,023	4707087,940	679,800
640	744430,676	4707083,137	679,800
641	744429,683	4707078,262	679,800
642	744427,611	4707073,741	679,800
643	744425,027	4707069,572	679,800
644	744424,177	4707064,687	679,800
645	744424,190	4707059,697	679,800
646	744422,131	4707057,969	679,800
647	744417,197	4707057,339	679,800
648	744412,217	4707057,287	679,800
649	744407,252	4707056,747	679,800
650	744402,334	4707056,607	679,800
651	744402,038	4707053,218	679,800
652	744406,438	4707050,939	679,800
653	744411,367	4707050,256	679,800
654	744415,644	4707050,104	679,800
655	744414,618	4707045,576	679,800
656	744435,989	4707138,765	681,800
657	744436,325	4707133,785	681,800
658	744435,728	4707128,826	681,800
659	744435,275	4707123,847	681,800
660	744434,375	4707118,948	681,800
661	744431,930	4707114,651	681,800
662	744430,759	4707109,807	681,800
663	744430,361	4707104,836	681,800

Nombre	Coordenada X	Coordenada Y	Coordenada Z
664	744429,710	4707099,883	681,800
665	744428,497	4707095,056	681,800
666	744425,974	4707090,747	681,800
667	744424,298	4707086,053	681,800
668	744423,738	4707081,087	681,800
669	744421,840	4707076,507	681,800
670	744418,306	4707073,021	681,800
671	744416,951	4707068,286	681,800
672	744417,752	4707063,380	681,800
673	744416,269	4707059,885	681,800
674	744411,274	4707059,851	681,800
675	744406,275	4707059,874	681,800
676	744401,291	4707060,174	681,800
677	744396,477	4707059,173	681,800
678	744391,714	4707057,691	681,800
679	744387,836	4707054,798	681,800
680	744384,662	4707051,059	681,800
681	744379,737	4707051,156	681,800
682	744380,483	4707047,625	681,800
683	744384,876	4707045,409	681,800
684	744389,859	4707045,423	681,800
685	744394,758	4707046,392	681,800
686	744399,375	4707048,275	681,800
687	744403,969	4707048,845	681,800
688	744407,092	4707045,413	681,800
689	744405,778	4707040,648	681,800
690	744407,487	4707037,372	681,800
691	744428,501	4707143,684	682,800
692	744428,599	4707138,687	682,800
693	744428,693	4707133,693	682,800
694	744428,537	4707128,699	682,800
695	744428,706	4707123,702	682,800
696	744428,824	4707118,710	682,800
697	744428,333	4707113,739	682,800
698	744428,614	4707108,771	682,800
699	744428,793	4707103,788	682,800
700	744427,984	4707098,864	682,800
701	744426,043	4707094,283	682,800
702	744423,966	4707089,737	682,800
703	744422,670	4707084,912	682,800
704	744421,051	4707080,195	682,800

Nombre	Coordenada X	Coordenada Y	Coordenada Z
705	744418,232	4707076,137	682,800
706	744415,118	4707072,258	682,800
707	744415,005	4707067,315	682,800
708	744415,168	4707062,321	682,800
709	744411,176	4707061,052	682,800
710	744406,197	4707060,938	682,800
711	744401,235	4707060,725	682,800
712	744396,313	4707060,078	682,800
713	744391,419	4707059,122	682,800
714	744386,648	4707057,645	682,800
715	744382,277	4707055,320	682,800
716	744377,814	4707053,881	682,800
717	744373,640	4707053,614	682,800
718	744375,098	4707048,869	682,800
719	744378,354	4707045,269	682,800
720	744383,270	4707044,533	682,800
721	744388,264	4707044,535	682,800
722	744393,204	4707045,173	682,800
723	744398,182	4707045,263	682,800
724	744402,609	4707044,527	682,800
725	744403,022	4707039,604	682,800
726	744402,342	4707034,725	682,800
727	744450,608	4707124,636	677,800
728	744448,689	4707120,021	677,800
729	744446,468	4707115,545	677,800
730	744444,025	4707111,186	677,800
731	744441,909	4707106,672	677,800
732	744440,531	4707101,898	677,800
733	744439,834	4707096,953	677,800
734	744438,280	4707092,223	677,800
735	744436,228	4707087,669	677,800
736	744434,745	4707082,902	677,800
737	744433,715	4707078,013	677,800
738	744432,412	4707073,186	677,800
739	744430,554	4707068,600	677,800
740	744429,070	4707063,900	677,800
741	744428,490	4707058,948	677,800
742	744424,984	4707055,643	677,800
743	744420,107	4707054,874	677,800
744	744418,295	4707053,313	677,800
745	744423,193	4707053,780	677,800

Nombre	Coordenada X	Coordenada Y	Coordenada Z
746	744427,489	4707053,550	677,800
747	744437,759	4707137,054	680,800
748	744437,510	4707132,063	680,800
749	744437,100	4707127,081	680,800
750	744436,464	4707122,123	680,800
751	744435,729	4707117,181	680,800
752	744435,061	4707112,230	680,800
753	744432,964	4707107,777	680,800
754	744432,500	4707102,799	680,800
755	744431,663	4707097,874	680,800
756	744430,156	4707093,116	680,800
757	744427,336	4707089,013	680,800
758	744426,094	4707084,195	680,800
759	744425,695	4707079,213	680,800
760	744423,795	4707074,713	680,800
761	744420,088	4707071,469	680,800
762	744419,757	4707066,541	680,800
763	744421,002	4707061,705	680,800
764	744417,738	4707058,858	680,800
765	744412,747	4707058,661	680,800
766	744407,764	4707058,473	680,800
767	744402,793	4707058,553	680,800
768	744397,825	4707058,122	680,800
769	744393,696	4707055,453	680,800
770	744390,752	4707051,439	680,800
771	744389,695	4707048,067	680,800
772	744394,660	4707047,908	680,800
773	744399,222	4707049,652	680,800
774	744403,941	4707050,098	680,800
775	744408,540	4707048,757	680,800
776	744409,952	4707045,652	680,800
777	744409,575	4707041,315	680,800
778	744453,227	4707122,105	675,800
779	744451,478	4707117,452	675,800
780	744450,667	4707112,522	675,800
781	744451,375	4707107,605	675,800
782	744451,620	4707102,634	675,800
783	744450,604	4707097,770	675,800
784	744447,143	4707094,332	675,800
785	744446,313	4707089,794	675,800
786	744448,638	4707085,369	675,800
787	744450,542	4707080,759	675,800

Nombre	Coordenada X	Coordenada Y	Coordenada Z
788	744451,185	4707075,954	675,800
789	744448,538	4707071,750	675,800
790	744449,516	4707067,136	675,800
791	744484,626	4707113,055	672,850
792	744486,534	4707107,717	672,702
793	744488,350	4707102,446	672,488
794	744490,600	4707093,847	672,169
795	744506,995	4707093,211	672,443
796	744507,632	4707085,408	672,187
797	744510,867	4707075,094	671,944
798	744511,712	4707073,405	671,798
799	744513,120	4707076,154	671,961
800	744514,988	4707075,266	671,855
801	744515,672	4707071,200	671,709
802	744517,377	4707067,224	671,597
803	744521,817	4707063,136	671,243
804	744525,169	4707060,436	670,836
805	744528,213	4707057,230	670,598
806	744531,162	4707054,197	670,333
807	744535,415	4707050,674	670,174
808	744538,550	4707047,903	670,244
809	744542,471	4707046,424	670,741
810	744544,721	4707045,166	670,710
811	744548,787	4707043,360	670,521
812	744552,256	4707041,204	670,411
813	744555,146	4707039,455	670,343
814	744563,057	4707035,436	669,931
815	744568,864	4707033,909	669,789
816	744575,183	4707031,634	669,394
817	744585,130	4707028,529	669,755
818	744593,170	4707029,717	669,953
819	744595,510	4707030,625	670,160
820	744594,717	4707031,513	670,112
821	744597,816	4707025,732	668,927
822	744599,146	4707025,020	668,797
823	744606,110	4707027,251	668,590
824	744610,813	4707028,473	668,621
825	744619,662	4707029,951	668,503
826	744624,264	4707030,760	668,438
827	744624,271	4707030,743	668,429
828	744624,926	4707029,091	668,297
829	744625,688	4707024,768	668,115



Nombre	Coordenada X	Coordenada Y	Coordenada Z
830	744625,026	4707016,246	667,777
831	744623,525	4707014,859	667,502
832	744619,760	4707015,711	667,621
833	744623,710	4707021,809	668,048
834	744619,590	4707022,275	667,948
835	744616,062	4707019,460	667,793
836	744612,143	4707017,754	667,734
837	744611,926	4707014,260	667,530
838	744608,260	4707013,702	667,687
839	744623,620	4707029,983	668,260
840	744618,724	4707028,836	668,095
841	744610,641	4707027,149	667,905
842	744604,905	4707025,236	667,910
843	744601,281	4707024,164	667,968
844	744598,194	4707023,535	668,021
845	744597,340	4707023,548	668,100
846	744593,767	4707024,549	668,300
847	744588,194	4707026,388	668,623
848	744590,396	4707027,758	669,024
849	744594,331	4707029,019	669,058
850	744597,394	4707030,114	669,013
851	744583,672	4707027,239	668,690
852	744580,037	4707028,317	668,636
853	744575,716	4707030,031	668,739
854	744571,529	4707031,657	668,941
855	744567,018	4707033,303	669,220
856	744561,829	4707034,674	669,159
857	744558,429	4707036,474	669,387
858	744553,512	4707038,656	669,334
859	744553,089	4707037,029	669,325
860	744556,728	4707035,106	669,269
861	744559,041	4707031,631	669,242
862	744562,079	4707028,430	669,395
863	744566,819	4707029,511	669,106
864	744571,409	4707028,587	669,048
865	744573,608	4707023,822	669,107
866	744579,563	4707023,509	668,827
867	744582,828	4707024,069	668,688
868	744586,767	4707022,728	668,699
869	744567,072	4707014,919	667,793
870	744564,135	4707019,379	668,019

Nombre	Coordenada X	Coordenada Y	Coordenada Z
871	744561,581	4707022,057	668,137
872	744556,114	4707017,680	668,473
873	744552,475	4707021,120	668,889
874	744550,555	4707020,249	669,169
875	744543,634	4707024,305	669,677
876	744543,660	4707027,867	669,597
877	744539,325	4707031,477	669,706
878	744533,871	4707029,219	670,074
879	744531,405	4707031,540	670,104
880	744528,993	4707033,697	670,235
881	744532,704	4707035,986	669,788
882	744526,467	4707036,067	670,268
883	744524,215	4707037,858	670,130
884	744518,358	4707040,930	670,366
885	744515,107	4707042,563	670,375
886	744511,452	4707043,971	670,415
887	744504,998	4707048,750	670,680
888	744502,359	4707049,844	671,030
889	744497,778	4707056,438	671,454
890	744493,422	4707064,556	671,705
891	744489,812	4707074,702	671,551
892	744484,961	4707086,090	671,889
893	744482,360	4707092,605	672,088
894	744479,988	4707099,451	672,367
895	744478,752	4707106,083	672,339
896	744476,204	4707114,452	672,479
897	744477,264	4707114,296	672,388
898	744481,076	4707111,726	672,188
899	744481,633	4707105,590	672,222
900	744483,197	4707101,458	672,193
901	744483,114	4707096,818	672,165
902	744487,242	4707094,520	672,128
903	744488,814	4707085,763	672,068
904	744490,377	4707081,027	671,855
905	744495,231	4707080,567	671,773
906	744500,203	4707081,991	671,596
907	744502,957	4707081,213	671,474
908	744504,086	4707077,880	671,084
909	744503,769	4707077,038	671,073
910	744503,581	4707075,150	670,870
911	744502,998	4707072,897	671,070

Nombre	Coordenada X	Coordenada Y	Coordenada Z
912	744503,757	4707068,957	671,134
913	744505,238	4707066,826	671,172
914	744506,598	4707066,480	670,836
915	744507,028	4707064,401	670,651
916	744509,037	4707062,017	670,695
917	744511,617	4707062,844	670,446
918	744512,422	4707065,026	669,871
919	744514,856	4707063,722	669,671
920	744515,859	4707064,544	669,537
921	744516,229	4707064,889	669,647
922	744520,359	4707062,377	669,612
923	744524,296	4707058,806	669,512
924	744529,219	4707054,785	669,717
925	744531,351	4707052,105	669,631
926	744528,068	4707048,924	669,480
927	744526,783	4707048,319	669,694
928	744525,565	4707048,826	669,744
929	744523,808	4707048,920	670,146
930	744520,693	4707050,150	670,363
931	744519,250	4707052,012	670,566
932	744518,641	4707055,081	670,379
933	744516,794	4707057,212	670,524
934	744514,680	4707057,959	670,802
935	744512,810	4707058,497	670,817
936	744509,752	4707057,814	670,848
937	744509,406	4707061,156	671,041
938	744505,315	4707062,505	671,080
939	744503,693	4707063,369	671,049
940	744502,043	4707066,542	671,366
941	744504,480	4707068,913	671,052
942	744501,298	4707070,653	671,288
943	744499,425	4707073,579	671,534
944	744496,087	4707077,810	671,823
945	744494,447	4707081,657	671,818
946	744492,336	4707086,261	671,813
947	744494,368	4707090,345	672,040
948	744495,648	4707093,143	672,209
949	744498,824	4707094,930	672,321
950	744500,710	4707092,719	672,065
951	744495,711	4707098,162	672,377
952	744489,580	4707097,893	672,309
953	744490,458	4707091,800	671,952

Nombre	Coordenada X	Coordenada Y	Coordenada Z
954	744492,308	4707087,435	671,800
955	744488,713	4707095,944	671,809
956	744487,082	4707101,048	671,917
957	744485,241	4707107,641	672,091
958	744481,484	4707115,768	672,103
959	744475,475	4707116,801	672,509
960	744477,441	4707123,073	672,342
961	744475,230	4707127,192	672,483
962	744470,863	4707125,761	672,551
963	744467,787	4707127,052	672,711
964	744471,015	4707132,734	672,684
965	744468,172	4707136,211	672,987
966	744462,302	4707136,237	673,317
967	744464,980	4707141,376	673,333
968	744460,588	4707142,686	672,993
969	744461,913	4707145,663	673,333
970	744460,752	4707146,755	673,034
971	744459,659	4707148,122	672,891
972	744458,591	4707147,912	672,966
973	744458,039	4707147,056	673,096
974	744459,422	4707144,731	673,037
975	744461,074	4707141,442	673,007
976	744461,475	4707138,875	673,243
977	744458,920	4707148,453	673,630
978	744460,413	4707149,412	673,600
979	744461,311	4707148,405	673,657
980	744465,044	4707144,957	674,032
981	744468,907	4707138,772	673,641
982	744471,520	4707135,260	673,483
983	744474,039	4707131,411	673,484
984	744476,524	4707128,437	673,340
985	744479,108	4707124,408	673,262
986	744480,676	4707121,591	673,163
987	744483,863	4707115,064	672,939
988	744485,874	4707110,164	672,708
989	744487,918	4707111,334	672,766
990	744487,245	4707114,907	672,809
991	744489,111	4707116,322	673,063
992	744491,985	4707117,214	673,089
993	744490,126	4707121,406	673,055
994	744487,848	4707121,980	673,036
995	744484,192	4707122,688	673,038

Nombre	Coordenada X	Coordenada Y	Coordenada Z
996	744481,234	4707124,878	673,085
997	744481,067	4707129,612	673,249
998	744478,235	4707129,869	673,267
999	744495,971	4707121,517	672,335
1000	744494,165	4707119,947	672,613
1001	744492,503	4707118,248	672,944
1002	744498,417	4707113,067	672,976
1003	744499,553	4707113,609	672,290
1004	744502,142	4707110,253	672,201
1005	744501,000	4707109,330	672,674
1006	744503,656	4707104,912	672,500
1007	744507,621	4707104,318	672,113
1008	744510,960	4707102,807	672,040
1009	744511,351	4707102,649	672,068
1010	744511,819	4707102,634	671,696
1011	744515,228	4707100,515	671,426
1012	744518,543	4707098,656	671,344
1013	744524,493	4707094,904	671,274
1014	744529,899	4707091,823	671,021
1015	744537,582	4707088,915	670,676
1016	744546,139	4707084,250	670,461
1017	744552,975	4707081,254	670,546
1018	744560,743	4707078,021	670,492
1019	744568,089	4707072,718	670,276
1020	744574,256	4707070,881	670,099
1021	744578,780	4707067,432	670,122
1022	744584,194	4707063,086	670,042
1023	744588,766	4707057,588	669,637
1024	744593,273	4707053,911	669,293
1025	744600,139	4707051,550	668,883
1026	744604,702	4707050,048	668,464
1027	744601,855	4707049,524	669,123
1028	744598,860	4707050,983	669,344
1029	744598,413	4707046,645	669,236
1030	744594,735	4707046,627	669,367
1031	744593,876	4707048,339	669,450
1032	744591,637	4707046,677	669,478
1033	744591,281	4707049,849	669,441
1034	744591,409	4707051,902	669,515
1035	744587,404	4707057,326	669,702
1036	744584,480	4707054,454	669,558

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1037	744584,844	4707051,996	669,697
1038	744582,885	4707050,889	669,830
1039	744580,727	4707051,737	669,909
1040	744581,370	4707055,690	669,665
1041	744582,446	4707058,398	669,837
1042	744583,602	4707059,435	669,828
1043	744584,524	4707059,146	669,827
1044	744586,149	4707059,342	669,912
1045	744583,244	4707062,720	670,166
1046	744578,642	4707062,109	669,999
1047	744577,537	4707060,311	669,910
1048	744575,792	4707057,465	669,544
1049	744572,919	4707060,955	669,885
1050	744567,122	4707059,333	669,954
1051	744565,433	4707051,709	670,679
1052	744568,788	4707047,475	670,340
1053	744571,596	4707045,077	670,278
1054	744571,137	4707041,663	670,037
1055	744572,802	4707038,138	669,779
1056	744576,517	4707036,276	669,531
1057	744577,209	4707032,512	669,447
1058	744580,990	4707033,422	670,151
1059	744582,662	4707031,545	669,869
1060	744582,942	4707029,026	669,924
1061	744581,389	4707029,278	670,019
1062	744588,319	4707030,586	670,113
1063	744591,906	4707030,257	669,925
1064	744593,281	4707028,216	669,185
1065	744593,203	4707026,674	668,979
1066	744593,030	4707025,057	668,433
1067	744597,952	4707023,631	668,098
1068	744600,640	4707023,999	667,984
1069	744605,154	4707025,379	667,919
1070	744609,707	4707026,728	667,863
1071	744614,071	4707027,842	667,920
1072	744619,376	4707027,758	668,099
1073	744621,324	4707028,131	668,222
1074	744623,715	4707027,833	668,425
1075	744623,789	4707026,921	668,351
1076	744609,859	4707032,612	668,843
1077	744609,160	4707032,925	668,917

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1078	744609,330	4707033,858	669,535
1079	744609,445	4707034,782	669,644
1080	744610,175	4707035,895	669,756
1081	744612,172	4707034,950	669,788
1082	744612,292	4707037,816	669,787
1083	744614,598	4707039,249	669,912
1084	744616,078	4707040,331	669,817
1085	744617,020	4707039,888	669,762
1086	744619,301	4707041,752	668,628
1087	744615,260	4707040,670	669,820
1088	744613,016	4707041,173	670,089
1089	744610,868	4707043,572	669,046
1090	744610,173	4707045,245	668,862
1091	744610,301	4707047,031	668,343
1092	744610,104	4707046,550	668,697
1093	744606,171	4707049,076	668,527
1094	744606,024	4707048,518	668,735
1095	744604,782	4707046,397	668,968
1096	744599,739	4707053,082	668,852
1097	744599,208	4707052,394	669,030
1098	744599,035	4707050,306	669,248
1099	744598,275	4707048,433	669,255
1100	744597,446	4707046,519	669,315
1101	744594,412	4707046,597	669,366
1102	744594,138	4707045,232	670,063
1103	744593,407	4707047,086	669,368
1104	744593,260	4707048,642	669,437
1105	744593,066	4707050,324	669,523
1106	744593,296	4707051,817	669,618
1107	744592,610	4707052,988	669,467
1108	744593,350	4707053,848	669,297
1109	744589,218	4707047,223	669,529
1110	744585,303	4707049,335	669,791
1111	744582,406	4707050,815	669,885
1112	744580,112	4707052,141	669,916
1113	744581,821	4707054,470	669,556
1114	744584,312	4707054,841	669,623
1115	744586,399	4707055,796	669,595
1116	744587,548	4707056,558	669,707
1117	744588,790	4707057,201	669,620
1118	744592,246	4707060,567	669,768
1119	744593,839	4707061,194	669,679

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1120	744595,455	4707061,169	669,636
1121	744597,049	4707060,075	669,649
1122	744597,820	4707058,368	669,429
1123	744599,559	4707058,048	669,465
1124	744600,207	4707057,090	669,210
1125	744600,941	4707057,845	669,297
1126	744601,547	4707057,302	669,128
1127	744602,792	4707056,404	669,184
1128	744603,921	4707055,482	669,196
1129	744604,702	4707054,220	669,002
1130	744604,225	4707053,074	668,657
1131	744605,821	4707054,030	668,964
1132	744605,168	4707055,757	669,125
1133	744602,147	4707056,936	669,140
1134	744598,522	4707056,160	669,051
1135	744595,752	4707058,521	669,197
1136	744593,538	4707057,870	669,590
1137	744590,757	4707058,339	669,682
1138	744585,179	4707054,047	669,570
1139	744582,357	4707055,907	669,761
1140	744579,789	4707058,291	669,723
1141	744578,502	4707059,002	669,852
1142	744581,327	4707051,405	669,909
1143	744581,340	4707051,316	669,898
1144	744580,061	4707054,701	669,478
1145	744578,672	4707054,494	669,609
1146	744579,175	4707055,417	669,382
1147	744579,211	4707057,234	669,663
1148	744578,238	4707058,498	669,778
1149	744576,065	4707060,021	669,758
1150	744572,850	4707061,306	669,940
1151	744569,724	4707061,040	669,852
1152	744569,971	4707057,989	669,871
1153	744570,347	4707054,604	670,165
1154	744571,557	4707054,108	670,064
1155	744568,134	4707055,238	670,248
1156	744565,439	4707055,946	670,167
1157	744560,796	4707056,839	670,367
1158	744557,367	4707058,195	670,459
1159	744555,710	4707062,106	670,350
1160	744513,771	4707090,591	672,222
1161	744514,219	4707091,149	672,209

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1162	744510,121	4707093,326	672,337
1163	744506,806	4707094,824	672,431
1164	744478,007	4707102,743	673,057
1165	744477,708	4707100,428	673,184
1166	744474,933	4707097,718	673,716
1167	744471,300	4707097,193	673,878
1168	744468,936	4707093,738	674,099
1169	744465,951	4707089,046	674,325
1170	744463,384	4707085,446	674,665
1171	744461,545	4707081,173	675,209
1172	744457,916	4707075,435	675,574
1173	744453,212	4707073,404	675,808
1174	744449,498	4707071,369	675,914
1175	744446,489	4707068,313	676,252
1176	744444,480	4707061,873	676,688
1177	744442,365	4707059,338	676,708
1178	744441,157	4707056,190	676,507
1179	744437,675	4707058,857	676,984
1180	744436,896	4707056,097	676,707
1181	744430,049	4707054,936	677,673
1182	744429,651	4707051,745	677,936
1183	744420,851	4707050,522	679,179
1184	744420,698	4707047,267	679,289
1185	744413,667	4707046,789	680,340
1186	744413,204	4707043,515	680,514
1187	744407,712	4707041,675	681,400
1188	744404,117	4707032,588	683,087
1189	744404,114	4707032,582	683,101
1190	744400,398	4707031,301	683,670
1191	744400,056	4707027,036	684,268
1192	744394,728	4707025,292	684,997
1193	744393,289	4707020,639	685,336
1194	744388,836	4707019,755	685,906
1195	744383,339	4707015,919	686,489
1196	744377,155	4707011,008	686,913
1197	744368,229	4707005,198	687,559
1198	744357,012	4706996,464	688,301
1199	744349,835	4706993,287	689,015
1200	744349,161	4706988,962	688,942
1201	744356,507	4706992,674	688,419
1202	744365,431	4707000,166	687,720

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1203	744375,026	4707006,718	686,869
1204	744381,507	4707011,123	686,330
1205	744387,466	4707014,660	686,002
1206	744389,669	4707014,481	685,988
1207	744393,425	4707014,682	685,487
1208	744398,790	4707016,140	685,075
1209	744402,739	4707018,835	684,915
1210	744405,574	4707021,016	684,803
1211	744410,041	4707025,267	684,558
1212	744411,790	4707027,468	684,533
1213	744411,242	4707029,101	684,594
1214	744408,334	4707031,233	684,969
1215	744405,523	4707028,847	685,081
1216	744400,958	4707025,136	685,161
1217	744397,847	4707023,175	685,285
1218	744394,697	4707021,014	685,420
1219	744456,182	4707151,313	673,621
1220	744455,707	4707153,608	673,801
1221	744453,412	4707158,974	674,422
1222	744452,422	4707165,670	674,510
1223	744451,439	4707172,682	674,585
1224	744455,217	4707171,033	674,121
1225	744455,603	4707169,440	674,056
1226	744457,533	4707166,864	674,001
1227	744461,360	4707164,425	673,874
1228	744465,342	4707161,697	673,675
1229	744468,477	4707158,252	673,320
1230	744472,865	4707155,010	673,055
1231	744475,772	4707152,812	673,087
1232	744476,042	4707151,252	673,036
1233	744478,937	4707148,010	672,998
1234	744481,239	4707146,086	673,132
1235	744484,766	4707143,803	672,948
1236	744486,408	4707140,049	672,797
1237	744487,556	4707137,560	672,660
1238	744490,940	4707132,191	672,513
1239	744474,299	4707148,723	673,590
1240	744470,147	4707150,147	673,925
1241	744465,592	4707153,671	674,261
1242	744463,470	4707154,446	674,289
1243	744462,142	4707161,977	673,940



Nombre	Coordenada X	Coordenada Y	Coordenada Z
1244	744458,135	4707163,963	674,109
1245	744456,678	4707165,961	674,059
1246	744463,191	4707199,989	675,047
1247	744466,516	4707200,111	675,043
1248	744467,041	4707204,229	674,920
1249	744466,007	4707206,867	674,818
1250	744463,115	4707208,041	674,983
1251	744458,709	4707212,079	675,177
1252	744453,999	4707210,591	675,259
1253	744454,087	4707215,279	675,457
1254	744453,449	4707222,071	675,710
1255	744455,263	4707229,890	675,184
1256	744449,272	4707240,939	675,744
1257	744445,511	4707245,963	675,929
1258	744442,669	4707250,736	676,005
1259	744441,985	4707253,770	676,048
1260	744441,799	4707257,587	676,393
1261	744441,336	4707261,327	676,521
1262	744445,152	4707265,473	677,034
1263	744446,636	4707269,952	677,221
1264	744448,749	4707277,894	677,477
1265	744450,012	4707284,462	677,597
1266	744449,833	4707292,561	677,827
1267	744451,110	4707298,437	677,924
1268	744449,566	4707301,667	677,369
1269	744447,575	4707301,248	676,282
1270	744446,873	4707298,886	676,298
1271	744445,164	4707295,894	676,232
1272	744448,661	4707293,536	677,804
1273	744445,963	4707286,928	677,545
1274	744443,161	4707287,298	676,038
1275	744441,248	4707283,466	676,127
1276	744443,668	4707281,264	677,417
1277	744441,485	4707276,234	677,343
1278	744440,903	4707276,334	676,398
1279	744438,183	4707269,834	675,936
1280	744439,247	4707268,927	676,838
1281	744438,575	4707259,940	676,399
1282	744436,147	4707260,198	675,410
1283	744435,515	4707256,189	675,315
1284	744438,796	4707256,425	676,353
1285	744443,120	4707244,198	676,178

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1286	744442,576	4707241,850	675,212
1287	744447,744	4707232,368	675,005
1288	744450,052	4707231,760	675,856
1289	744452,439	4707221,763	675,715
1290	744450,819	4707219,273	674,809
1291	744452,332	4707209,351	674,580
1292	744454,147	4707209,693	675,223
1293	744455,659	4707203,537	675,573
1294	744458,166	4707198,989	675,183
1295	744456,285	4707196,403	674,431
1296	744457,902	4707192,493	674,324
1297	744461,573	4707191,108	674,953
1298	744460,255	4707187,968	674,359
1299	744463,188	4707178,166	674,038
1300	744466,277	4707179,086	674,927
1301	744468,561	4707171,084	674,592
1302	744466,801	4707170,782	673,986
1303	744471,593	4707165,178	674,225
1304	744474,225	4707162,452	674,028
1305	744474,498	4707159,566	673,318
1306	744480,763	4707158,717	673,986
1307	744479,505	4707157,844	673,700
1308	744477,707	4707156,734	673,257
1309	744485,725	4707155,171	673,943
1310	744485,593	4707150,289	673,102
1311	744489,084	4707147,115	672,943
1312	744489,782	4707148,010	673,245
1313	744494,444	4707141,657	673,636
1314	744496,871	4707134,444	673,383
1315	744495,539	4707132,728	672,344
1316	744496,897	4707130,632	672,429
1317	744498,530	4707128,180	672,352
1318	744500,251	4707128,833	673,142
1319	744502,307	4707125,938	673,110
1320	744503,140	4707121,256	672,346
1321	744507,041	4707115,182	672,309
1322	744509,723	4707116,946	672,523
1323	744512,544	4707118,163	672,649
1324	744515,686	4707115,718	672,515
1325	744516,128	4707112,218	672,379
1326	744515,279	4707108,338	672,093
1327	744518,619	4707102,277	671,403

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1328	744523,532	4707099,739	671,281
1329	744525,182	4707100,837	671,543
1330	744527,072	4707102,181	671,694
1331	744527,997	4707101,599	671,658
1332	744523,192	4707105,347	671,685
1333	744521,735	4707107,634	671,860
1334	744524,546	4707106,095	672,199
1335	744528,463	4707102,479	672,196
1336	744532,647	4707099,542	672,412
1337	744532,838	4707099,076	671,142
1338	744536,706	4707096,713	672,352
1339	744536,416	4707096,199	670,766
1340	744541,359	4707092,820	672,187
1341	744544,190	4707091,303	671,837
1342	744545,315	4707089,893	670,565
1343	744553,205	4707088,701	671,460
1344	744552,876	4707086,214	670,504
1345	744555,142	4707085,398	670,492
1346	744558,192	4707084,218	670,479
1347	744559,326	4707086,145	671,397
1348	744562,470	4707083,265	670,450
1349	744566,430	4707083,134	671,738
1350	744571,823	4707079,889	671,537
1351	744573,412	4707078,667	671,429
1352	744572,628	4707081,439	671,393
1353	744571,399	4707084,948	671,348
1354	744567,842	4707091,624	671,533
1355	744569,083	4707092,496	670,895
1356	744571,938	4707088,370	670,519
1357	744574,225	4707082,248	670,368
1358	744576,199	4707077,726	670,398
1359	744576,199	4707077,730	670,398
1360	744576,098	4707076,255	669,981
1361	744577,599	4707075,441	670,064
1362	744581,494	4707074,276	670,073
1363	744584,150	4707074,452	670,050
1364	744586,123	4707074,826	670,023
1365	744583,041	4707076,189	670,257
1366	744579,942	4707078,194	670,420
1367	744578,977	4707082,157	670,388
1368	744577,216	4707084,261	670,396

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1369	744577,410	4707088,797	670,458
1370	744574,230	4707089,541	670,447
1371	744580,766	4707077,584	670,372
1372	744578,561	4707083,313	670,377
1373	744577,353	4707088,056	670,443
1374	744574,920	4707095,217	670,518
1375	744573,887	4707102,471	670,717
1376	744573,390	4707107,660	670,759
1377	744571,701	4707107,131	670,884
1378	744570,273	4707105,620	671,213
1379	744567,997	4707106,045	671,196
1380	744565,188	4707107,046	671,457
1381	744564,504	4707110,725	671,607
1382	744565,823	4707113,637	671,533
1383	744567,601	4707114,998	671,724
1384	744570,421	4707117,361	671,291
1385	744570,996	4707121,282	671,268
1386	744569,747	4707124,315	671,436
1387	744563,401	4707126,396	671,678
1388	744560,739	4707122,552	671,893
1389	744562,362	4707131,756	671,695
1390	744561,698	4707135,585	671,778
1391	744556,859	4707135,826	671,935
1392	744555,777	4707141,788	671,928
1393	744552,278	4707140,941	672,012
1394	744546,759	4707146,581	672,045
1395	744544,534	4707146,180	672,253
1396	744538,733	4707145,904	672,422
1397	744533,804	4707146,844	672,845
1398	744531,650	4707151,215	672,840
1399	744527,248	4707156,086	673,055
1400	744522,779	4707154,642	673,198
1401	744518,503	4707155,542	673,278
1402	744514,376	4707162,831	673,531
1403	744508,647	4707164,028	673,512
1404	744506,112	4707169,156	673,554
1405	744502,847	4707169,627	673,584
1406	744500,742	4707174,066	673,680
1407	744497,929	4707178,001	673,818
1408	744495,011	4707181,951	673,881
1409	744491,778	4707185,844	674,043

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1410	744486,210	4707194,248	674,221
1411	744480,763	4707201,474	674,591
1412	744474,386	4707208,353	674,840
1413	744469,025	4707213,784	674,944
1414	744463,840	4707218,332	675,089
1415	744458,820	4707223,564	675,145
1416	744455,666	4707229,482	675,155
1417	744452,650	4707235,532	675,313
1418	744448,561	4707241,766	675,831
1419	744442,346	4707254,230	676,093
1420	744441,443	4707259,691	676,548
1421	744442,842	4707262,935	676,693
1422	744445,378	4707265,144	677,025
1423	744446,617	4707268,486	677,196
1424	744451,327	4707271,963	677,306
1425	744456,640	4707271,890	677,501
1426	744457,279	4707278,834	677,481
1427	744457,560	4707284,204	677,669
1428	744458,699	4707290,461	677,619
1429	744458,661	4707290,471	677,620
1430	744457,245	4707293,906	677,702
1431	744452,553	4707291,378	677,860
1432	744451,883	4707288,642	677,746
1433	744449,950	4707284,550	677,606
1434	744446,740	4707280,561	677,523
1435	744444,859	4707276,369	677,306
1436	744447,636	4707273,392	677,423
1437	744446,502	4707268,784	677,210
1438	744444,416	4707264,536	677,023
1439	744441,402	4707263,752	676,778
1440	744440,157	4707260,820	676,603
1441	744445,094	4707265,592	677,027
1442	744451,536	4707269,479	677,259
1443	744452,529	4707265,113	677,158
1444	744453,970	4707260,685	676,954
1445	744455,058	4707256,299	676,839
1446	744458,164	4707253,277	676,686
1447	744459,279	4707249,133	676,573
1448	744456,403	4707243,917	676,368
1449	744456,048	4707238,020	676,150
1450	744462,169	4707223,452	675,349
1451	744460,122	4707219,050	675,104

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1452	744468,655	4707217,142	675,133
1453	744466,907	4707211,964	674,876
1454	744475,281	4707209,958	674,836
1455	744478,630	4707206,035	674,717
1456	744473,207	4707203,191	674,746
1457	744472,445	4707200,192	674,793
1458	744472,288	4707194,669	674,973
1459	744470,202	4707188,613	674,978
1460	744468,140	4707183,270	674,950
1461	744470,546	4707177,777	674,680
1462	744475,106	4707177,220	674,530
1463	744479,879	4707178,943	674,598
1464	744486,310	4707179,507	674,498
1465	744491,047	4707180,795	674,380
1466	744492,818	4707181,798	673,986
1467	744496,384	4707182,179	674,026
1468	744499,814	4707177,972	673,912
1469	744499,538	4707172,810	673,685
1470	744505,633	4707171,922	673,757
1471	744505,004	4707165,207	673,681
1472	744508,679	4707161,597	673,552
1473	744517,108	4707164,475	673,591
1474	744517,485	4707153,577	673,349
1475	744523,422	4707160,507	673,335
1476	744523,800	4707149,248	673,182
1477	744533,554	4707154,584	672,558
1478	744539,119	4707152,091	672,054
1479	744542,324	4707150,782	672,078
1480	744543,587	4707143,558	672,312
1481	744550,510	4707146,606	672,076
1482	744551,111	4707140,430	672,011
1483	744558,024	4707141,365	671,968
1484	744558,651	4707132,675	671,889
1485	744565,613	4707134,576	671,753
1486	744570,211	4707126,785	671,303
1487	744567,201	4707122,357	671,339
1488	744572,975	4707119,521	671,185
1489	744569,929	4707116,241	671,218
1490	744574,830	4707111,890	670,926
1491	744571,830	4707104,816	670,809
1492	744577,620	4707101,155	670,748
1493	744578,255	4707092,678	670,499

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1494	744572,445	4707087,896	670,460
1495	744574,237	4707082,230	670,370
1496	744584,179	4707080,266	670,324
1497	744585,518	4707078,584	670,259
1498	744592,094	4707077,655	670,123
1499	744591,820	4707070,701	669,815
1500	744600,212	4707065,497	669,736
1501	744600,562	4707066,301	670,517
1502	744597,740	4707068,304	670,596
1503	744607,466	4707061,243	669,322
1504	744608,280	4707063,321	670,415
1505	744615,303	4707058,432	669,009
1506	744629,829	4707051,858	668,708
1507	744629,256	4707047,212	668,703
1508	744633,615	4707044,833	668,637
1509	744637,636	4707040,929	668,617
1510	744642,148	4707044,927	668,226
1511	744643,964	4707038,571	668,463
1512	744648,569	4707033,864	668,339
1513	744652,366	4707032,024	668,180
1514	744657,390	4707029,290	668,114
1515	744661,056	4707029,029	668,157
1516	744662,751	4707031,523	668,042
1517	744664,973	4707030,212	668,016
1518	744665,465	4707027,465	668,002
1519	744666,807	4707023,251	667,842
1520	744667,394	4707019,621	667,748
1521	744669,063	4707015,474	667,587
1522	744672,436	4707016,236	667,619
1523	744675,389	4707015,084	667,651
1524	744676,398	4707021,206	667,732
1525	744678,041	4707023,925	667,811
1526	744670,551	4707008,275	666,785
1527	744673,543	4707008,694	666,787
1528	744674,945	4707008,824	666,790
1529	744662,118	4707008,235	666,851
1530	744660,804	4707008,472	666,916
1531	744659,958	4707009,961	667,346
1532	744660,543	4707010,705	667,413
1533	744659,451	4707011,631	667,472
1534	744657,956	4707011,466	667,213

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1535	744657,516	4707011,724	667,071
1536	744657,395	4707012,907	667,161
1537	744657,784	4707013,129	667,332
1538	744658,133	4707014,104	667,506
1539	744657,607	4707015,330	667,379
1540	744657,960	4707015,705	667,564
1541	744657,742	4707017,066	667,538
1542	744658,688	4707016,767	667,574
1543	744659,138	4707016,064	667,618
1544	744655,803	4707017,074	667,536
1545	744655,266	4707019,228	667,741
1546	744654,852	4707020,640	667,767
1547	744653,123	4707019,500	667,858
1548	744651,673	4707018,617	667,827
1549	744650,748	4707017,142	667,869
1550	744649,228	4707014,199	667,589
1551	744646,392	4707013,740	667,480
1552	744645,430	4707015,325	667,320
1553	744644,240	4707014,514	667,463
1554	744648,854	4707010,675	667,108
1555	744645,648	4707010,700	667,125
1556	744641,887	4707011,556	667,162
1557	744640,693	4707016,296	667,451
1558	744639,646	4707016,170	667,412
1559	744638,258	4707017,030	667,500
1560	744638,524	4707017,823	667,784
1561	744636,878	4707018,166	667,516
1562	744636,502	4707019,274	667,740
1563	744635,056	4707019,812	667,573
1564	744633,974	4707020,961	667,678
1565	744633,340	4707022,241	667,836
1566	744633,927	4707023,426	667,893
1567	744633,869	4707024,722	668,039
1568	744635,053	4707025,751	668,300
1569	744636,737	4707028,797	668,489
1570	744636,890	4707030,962	668,522
1571	744638,027	4707032,346	668,370
1572	744634,683	4707034,764	668,524
1573	744632,014	4707035,329	668,619
1574	744630,045	4707035,670	668,753
1575	744628,872	4707034,751	668,618

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1576	744628,256	4707032,161	668,281
1577	744629,487	4707036,178	668,707
1578	744629,714	4707034,177	668,672
1579	744628,724	4707031,058	668,303
1580	744629,224	4707029,332	668,229
1581	744628,831	4707028,122	668,078
1582	744628,049	4707029,877	668,119
1583	744627,585	4707031,468	668,143
1584	744627,109	4707033,108	668,171
1585	744627,724	4707033,585	668,367
1586	744628,177	4707035,167	668,515
1587	744628,809	4707026,938	667,973
1588	744632,626	4707027,492	668,322
1589	744633,728	4707021,811	667,777
1590	744636,904	4707017,805	667,507
1591	744638,529	4707017,637	667,626
1592	744639,742	4707017,921	667,849
1593	744639,440	4707019,270	668,022
1594	744639,539	4707020,023	668,016
1595	744640,626	4707021,050	668,072
1596	744636,363	4707019,506	667,741
1597	744631,382	4707019,948	667,839
1598	744630,554	4707019,013	667,906
1599	744630,633	4707018,133	667,984
1600	744631,529	4707017,674	667,969
1601	744632,544	4707017,071	667,830
1602	744635,128	4707016,074	667,497
1603	744635,639	4707014,551	667,468
1604	744633,324	4707012,423	667,443
1605	744630,783	4707014,714	667,591
1606	744630,224	4707018,671	667,813
1607	744626,456	4707018,167	667,811
1608	744626,613	4707019,294	667,891
1609	744625,236	4707020,232	667,944
1610	744625,437	4707023,792	668,117
1611	744626,570	4707027,368	667,927
1612	744622,519	4707028,484	668,294
1613	744619,162	4707027,338	668,071
1614	744615,148	4707026,700	667,938
1615	744610,221	4707026,167	667,816
1616	744606,723	4707025,037	667,843
1617	744599,084	4707022,547	667,967

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1618	744593,871	4707023,917	668,166
1619	744588,768	4707023,075	668,486
1620	744583,480	4707025,136	668,536
1621	744579,668	4707024,375	668,750
1622	744575,364	4707025,509	668,890
1623	744570,683	4707026,747	669,027
1624	744565,698	4707025,814	669,271
1625	744559,110	4707032,489	669,321
1626	744549,173	4707038,566	669,275
1627	744534,160	4707047,239	669,257
1628	744528,118	4707052,910	669,506
1629	744523,039	4707064,864	671,154
1630	744519,613	4707068,506	671,292
1631	744516,266	4707072,467	671,688
1632	744516,103	4707077,299	671,923
1633	744514,822	4707081,734	672,133
1634	744513,984	4707086,792	672,171
1635	744512,582	4707090,588	672,288
1636	744507,902	4707096,742	672,384
1637	744507,888	4707102,019	672,259
1638	744501,522	4707100,998	672,558
1639	744496,173	4707103,970	672,616
1640	744494,058	4707110,766	672,963
1641	744490,463	4707110,642	672,963
1642	744490,996	4707114,489	673,023
1643	744493,769	4707122,672	672,594
1644	744476,257	4707109,500	673,065
1645	744478,283	4707102,713	673,077
1646	744479,025	4707096,022	673,423
1647	744480,510	4707090,515	673,803
1648	744483,437	4707083,066	673,685
1649	744487,493	4707074,935	673,480
1650	744490,395	4707067,458	673,360
1651	744492,791	4707059,651	673,036
1652	744497,206	4707051,952	672,904
1653	744501,346	4707046,962	672,729
1654	744506,571	4707044,487	672,345
1655	744510,664	4707043,107	671,630
1656	744515,364	4707040,540	671,436
1657	744521,774	4707037,184	671,143
1658	744527,459	4707032,585	671,358
1659	744531,278	4707029,492	671,100



Nombre	Coordenada X	Coordenada Y	Coordenada Z
1660	744536,644	4707025,414	670,704
1661	744540,452	4707022,644	670,799
1662	744543,627	4707021,621	670,340
1663	744547,181	4707019,583	669,814
1664	744550,459	4707017,874	670,406
1665	744552,713	4707014,418	670,269
1666	744546,139	4707004,810	668,363
1667	744550,304	4707006,094	668,133
1668	744554,449	4707006,746	668,198
1669	744560,779	4707008,189	667,956
1670	744565,855	4707011,803	667,994
1671	744566,918	4707013,958	667,846
1672	744571,969	4707013,683	667,872
1673	744576,520	4707015,773	667,898
1674	744581,941	4707016,998	667,885
1675	744589,541	4707018,385	667,888
1676	744596,506	4707019,348	667,863
1677	744601,359	4707020,642	667,772
1678	744590,184	4707022,410	668,573
1679	744586,704	4707021,359	668,747
1680	744583,162	4707019,830	668,858
1681	744578,419	4707018,766	668,863
1682	744575,355	4707018,134	668,976
1683	744571,441	4707016,917	669,077
1684	744569,181	4707016,639	669,040
1685	744566,111	4707019,810	668,986
1686	744561,556	4707025,219	669,010
1687	744558,793	4707028,192	669,179
1688	744555,937	4707030,496	669,142
1689	744553,969	4707033,170	669,186
1690	744552,111	4707031,162	668,518
1691	744554,266	4707028,893	668,292
1692	744557,269	4707026,497	668,289
1693	744559,892	4707023,960	668,219
1694	744555,820	4707020,060	668,193
1695	744552,946	4707023,013	668,087
1696	744549,877	4707025,637	668,275
1697	744546,350	4707028,384	668,441
1698	744543,532	4707030,460	668,428
1699	744541,506	4707032,228	668,529
1700	744539,402	4707034,048	668,742

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1701	744537,122	4707035,372	668,894
1702	744532,996	4707037,833	669,285
1703	744527,491	4707040,151	669,618
1704	744561,726	4707011,734	668,296
1705	744564,491	4707013,762	668,110
1706	744564,122	4707017,761	668,045
1707	744559,493	4707020,350	668,222
1708	744555,609	4707021,381	668,109
1709	744554,746	4707025,414	668,261
1710	744554,186	4707028,167	668,276
1711	744552,422	4707031,299	668,556
1712	744549,567	4707029,254	668,210
1713	744546,378	4707029,848	668,441
1714	744544,684	4707033,061	668,399
1715	744545,478	4707035,196	668,669
1716	744545,673	4707037,859	669,124
1717	744546,196	4707040,917	669,350
1718	744542,838	4707039,539	669,130
1719	744540,576	4707038,139	668,654
1720	744537,703	4707037,831	668,877
1721	744533,615	4707039,308	669,301
1722	744535,114	4707042,613	668,893
1723	744535,313	4707046,367	669,287
1724	744531,491	4707047,235	669,136
1725	744528,430	4707043,955	669,718
1726	744527,844	4707040,956	669,563
1727	744524,247	4707043,761	669,849
1728	744525,382	4707046,596	669,733
1729	744527,646	4707048,848	669,609
1730	744529,297	4707050,931	669,447
1731	744527,927	4707054,609	669,504
1732	744524,885	4707053,987	669,500
1733	744523,601	4707051,777	669,809
1734	744521,833	4707049,298	670,267
1735	744519,539	4707046,279	669,922
1736	744514,716	4707043,746	670,308
1737	744515,311	4707046,969	670,041
1738	744516,460	4707049,879	670,463
1739	744518,814	4707051,887	670,590
1740	744515,523	4707054,151	670,584
1741	744511,623	4707051,888	670,775

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1742	744507,156	4707051,482	670,840
1743	744504,675	4707051,743	670,969
1744	744504,995	4707055,778	671,168
1745	744501,495	4707055,793	671,223
1746	744499,238	4707059,016	671,376
1747	744497,442	4707063,940	671,685
1748	744497,358	4707068,819	671,675
1749	744494,209	4707071,086	671,451
1750	744492,226	4707077,022	671,748
1751	744489,266	4707081,544	671,883
1752	744488,764	4707086,310	672,059
1753	744484,626	4707089,856	672,014
1754	744487,676	4707093,856	672,117
1755	744488,594	4707094,907	671,856
1756	744485,136	4707096,125	672,133
1757	744481,485	4707099,264	672,181
1758	744483,361	4707103,637	672,177
1759	744484,336	4707106,681	672,268
1760	744481,225	4707109,245	672,222
1761	744478,804	4707111,746	672,278
1762	744479,837	4707115,404	672,284
1763	744478,881	4707119,798	672,316
1764	744475,955	4707119,884	672,389
1765	744476,608	4707123,026	672,328
1766	744473,820	4707124,751	672,393
1767	744473,137	4707128,579	672,502
1768	744469,590	4707128,823	672,892
1769	744469,707	4707132,198	672,885
1770	744465,509	4707134,624	673,097
1771	744465,267	4707138,433	673,220
1772	744462,978	4707140,586	673,079
1773	744461,035	4707142,527	672,988
1774	744462,109	4707145,768	673,397
1775	744459,790	4707147,136	672,909
1776	744461,434	4707150,798	673,951
1777	744459,450	4707151,807	673,644
1778	744457,510	4707153,070	673,722
1779	744458,784	4707155,773	673,933
1780	744460,382	4707158,800	674,171
1781	744458,939	4707161,093	674,090
1782	744455,795	4707162,980	674,133
1783	744455,064	4707165,546	674,128

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1784	744459,974	4707163,198	674,066
1785	744463,148	4707160,250	674,087
1786	744464,964	4707155,970	674,092
1787	744465,669	4707153,443	674,252
1788	744465,368	4707151,133	674,302
1789	744469,485	4707151,164	674,125
1790	744472,886	4707149,715	673,769
1791	744471,687	4707147,082	674,098
1792	744470,692	4707144,253	674,103
1793	744473,027	4707143,300	673,904
1794	744476,677	4707143,496	673,672
1795	744479,747	4707144,069	673,458
1796	744482,263	4707140,890	673,310
1797	744478,995	4707139,724	673,492
1798	744476,039	4707139,743	673,697
1799	744473,078	4707139,718	673,826
1800	744470,468	4707141,611	673,736
1801	744471,861	4707136,343	673,525
1802	744474,554	4707133,833	673,463
1803	744479,463	4707136,440	673,375
1804	744482,949	4707138,950	673,369
1805	744483,285	4707134,975	673,367
1806	744484,928	4707133,699	673,317
1807	744484,475	4707131,383	673,242
1808	744486,363	4707128,884	672,971
1809	744486,610	4707125,203	673,219
1810	744489,726	4707122,502	673,077
1811	744492,225	4707118,396	672,978
1812	744491,001	4707115,499	673,029
1813	744491,728	4707114,595	673,061
1814	744495,070	4707113,718	672,889
1815	744492,401	4707109,533	672,930
1816	744488,774	4707105,560	672,597
1817	744490,096	4707101,645	672,406
1818	744495,524	4707102,366	672,636
1819	744497,981	4707105,979	672,760
1820	744500,812	4707106,694	672,714
1821	744502,014	4707103,185	672,670
1822	744498,537	4707100,114	672,572
1823	744494,363	4707096,903	672,369
1824	744491,588	4707092,386	672,083
1825	744494,274	4707089,594	672,006

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1826	744497,774	4707091,503	672,123
1827	744501,797	4707094,703	672,091
1828	744504,223	4707097,379	672,416
1829	744508,434	4707099,864	672,263
1830	744513,111	4707098,233	672,125
1831	744512,316	4707093,717	672,269
1832	744507,902	4707092,910	672,452
1833	744503,935	4707090,687	672,022
1834	744501,630	4707087,615	671,964
1835	744504,036	4707085,757	671,603
1836	744505,819	4707088,073	671,863
1837	744506,559	4707091,906	672,278
1838	744510,317	4707093,617	672,311
1839	744515,087	4707095,588	672,372
1840	744512,054	4707098,076	672,077
1841	744518,078	4707093,674	672,225
1842	744520,629	4707092,334	672,343
1843	744518,826	4707088,482	672,235
1844	744516,138	4707085,112	672,232
1845	744513,942	4707082,236	672,096
1846	744512,204	4707077,670	672,066
1847	744516,023	4707075,453	671,813
1848	744518,715	4707078,837	672,066
1849	744520,352	4707081,344	671,932
1850	744522,772	4707083,081	671,941
1851	744524,821	4707084,730	671,519
1852	744526,279	4707086,460	672,105
1853	744527,147	4707089,132	672,006
1854	744528,949	4707090,141	671,748
1855	744529,831	4707085,493	671,750
1856	744528,068	4707082,007	671,502
1857	744527,369	4707078,670	671,644
1858	744524,819	4707075,953	671,730
1859	744524,487	4707072,094	671,665
1860	744523,156	4707066,343	671,292
1861	744522,863	4707063,992	671,182
1862	744528,321	4707063,129	670,954
1863	744531,249	4707066,397	671,310
1864	744534,473	4707070,394	671,492
1865	744536,821	4707072,874	671,218
1866	744539,178	4707076,872	671,323

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1867	744538,403	4707082,741	671,471
1868	744544,169	4707081,354	671,273
1869	744547,614	4707078,753	671,086
1870	744546,425	4707074,302	671,121
1871	744543,401	4707070,968	671,118
1872	744540,864	4707067,673	670,961
1873	744539,607	4707066,477	671,377
1874	744538,229	4707062,523	671,008
1875	744536,584	4707060,180	671,221
1876	744532,859	4707059,934	670,920
1877	744533,797	4707056,259	670,867
1878	744534,964	4707053,538	670,336
1879	744537,671	4707052,819	670,637
1880	744540,835	4707055,173	670,753
1881	744541,412	4707058,068	670,960
1882	744541,993	4707062,343	671,342
1883	744544,473	4707063,113	671,458
1884	744545,669	4707065,566	670,715
1885	744548,058	4707068,993	670,746
1886	744549,644	4707073,838	670,910
1887	744551,412	4707078,028	671,049
1888	744556,174	4707076,492	670,812
1889	744554,536	4707070,842	670,711
1890	744553,086	4707068,108	670,890
1891	744550,750	4707063,358	670,572
1892	744550,148	4707060,706	671,107
1893	744548,495	4707056,854	671,139
1894	744545,101	4707051,778	671,007
1895	744548,400	4707046,803	670,722
1896	744552,538	4707048,684	670,764
1897	744555,526	4707053,250	670,806
1898	744556,908	4707057,057	670,778
1899	744558,620	4707059,205	670,313
1900	744561,681	4707062,372	670,421
1901	744564,217	4707067,702	670,517
1902	744565,664	4707071,391	670,572
1903	744572,490	4707068,688	670,420
1904	744569,938	4707064,414	670,217
1905	744568,423	4707060,998	669,933
1906	744567,491	4707057,161	669,980
1907	744567,673	4707054,412	670,416

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1908	744567,024	4707052,213	670,640
1909	744565,069	4707048,854	670,470
1910	744562,017	4707045,256	670,352
1911	744559,930	4707041,044	670,200
1912	744563,374	4707038,083	669,972
1913	744567,071	4707039,572	670,011
1914	744570,819	4707038,827	669,938
1915	744571,808	4707043,010	670,038
1916	744574,733	4707046,687	670,260
1917	744578,037	4707048,842	670,670
1918	744576,791	4707050,888	670,785
1919	744579,845	4707045,927	670,886
1920	744582,532	4707046,875	670,860
1921	744582,557	4707044,284	670,805
1922	744580,483	4707041,263	670,636
1923	744581,996	4707036,022	670,665
1924	744585,323	4707037,240	670,486
1925	744588,156	4707040,851	670,333
1926	744590,526	4707040,145	669,915
1927	744593,322	4707040,322	669,524
1928	744594,596	4707042,347	669,748
1929	744598,456	4707042,646	670,152
1930	744600,888	4707043,310	670,283
1931	744599,621	4707038,928	669,857
1932	744596,173	4707037,225	669,431
1933	744593,819	4707036,355	669,455
1934	744591,285	4707035,606	670,016
1935	744589,521	4707030,953	670,093
1936	744592,795	4707030,883	669,989
1937	744596,511	4707032,398	669,298
1938	744599,319	4707032,701	669,337
1939	744600,892	4707035,508	669,687
1940	744602,706	4707038,541	670,126
1941	744608,004	4707039,702	670,028
1942	744610,791	4707039,301	669,796
1943	744610,270	4707036,600	669,668
1944	744585,508	4707046,828	670,695
1945	744581,941	4707049,385	670,705
1946	744578,572	4707051,507	670,852
1947	744576,190	4707052,340	670,822
1948	744573,130	4707052,273	670,869
1949	744568,982	4707053,280	670,809

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1950	744564,948	4707054,772	670,564
1951	744514,431	4707091,182	672,184
1952	744476,058	4707109,287	672,976
1953	744475,386	4707113,092	673,095
1954	744473,789	4707117,483	673,396
1955	744471,424	4707121,857	673,462
1956	744469,159	4707124,030	673,593
1957	744464,980	4707127,364	673,734
1958	744460,892	4707130,852	674,516
1959	744459,235	4707133,508	675,687
1960	744456,207	4707137,257	678,021
1961	744453,184	4707140,916	678,553
1962	744451,198	4707147,401	678,807
1963	744449,159	4707153,354	678,959
1964	744448,579	4707159,599	679,162
1965	744448,777	4707161,753	679,195
1966	744446,604	4707167,842	679,162
1967	744446,338	4707171,135	678,873
1968	744442,659	4707185,730	681,084
1969	744440,092	4707190,811	681,711
1970	744435,750	4707202,966	682,867
1971	744433,240	4707209,902	683,521
1972	744434,639	4707206,887	683,191
1973	744428,432	4707219,886	683,950
1974	744427,653	4707227,419	684,083
1975	744425,008	4707237,274	684,653
1976	744414,583	4707257,566	687,797
1977	744414,365	4707261,969	687,840
1978	744414,075	4707266,570	687,726
1979	744412,140	4707270,684	688,097
1980	744410,817	4707273,112	688,178
1981	744408,582	4707276,161	688,142
1982	744406,300	4707276,238	688,245
1983	744402,998	4707274,746	688,743
1984	744404,227	4707277,195	687,218
1985	744406,382	4707278,196	687,086
1986	744408,356	4707279,199	687,038
1987	744410,042	4707279,299	686,861
1988	744410,962	4707280,063	686,659
1989	744407,900	4707280,495	688,006
1990	744404,480	4707279,472	688,243
1991	744401,375	4707277,339	688,059

Nombre	Coordenada X	Coordenada Y	Coordenada Z
1992	744409,317	4707282,365	687,606
1993	744410,028	4707290,111	688,226
1994	744413,216	4707302,034	685,877
1995	744411,586	4707299,398	685,630
1996	744410,538	4707297,220	686,697
1997	744408,948	4707297,304	686,945
1998	744408,073	4707292,671	687,862
1999	744404,314	4707290,034	687,825
2000	744402,645	4707285,326	688,275
2001	744405,909	4707282,767	688,828
2002	744402,233	4707280,826	688,409
2003	744408,502	4707276,011	688,192
2004	744405,696	4707273,044	688,679
2005	744404,547	4707269,675	689,188
2006	744408,380	4707267,007	688,965
2007	744412,112	4707265,809	688,140
2008	744408,532	4707262,250	689,032
2009	744406,301	4707259,084	689,429
2010	744406,654	4707254,895	689,286
2011	744406,313	4707252,368	689,383
2012	744412,421	4707251,528	687,932
2013	744415,144	4707246,933	687,339
2014	744411,361	4707243,041	688,098
2015	744415,564	4707242,834	687,247
2016	744417,899	4707242,896	685,832
2017	744414,488	4707241,789	687,450
2018	744412,244	4707234,809	688,071
2019	744414,987	4707233,418	687,503
2020	744420,078	4707233,542	685,130
2021	744418,472	4707229,491	685,813
2022	744420,414	4707225,167	685,742
2023	744417,412	4707217,446	686,334
2024	744423,872	4707214,939	685,459
2025	744419,431	4707209,234	686,280
2026	744423,094	4707204,911	685,674
2027	744428,389	4707207,140	684,070
2028	744431,873	4707204,221	683,474
2029	744431,903	4707198,664	683,138
2030	744434,305	4707177,386	681,361
2031	744437,833	4707181,346	681,314
2032	744434,787	4707186,846	682,135

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2033	744439,097	4707186,741	681,551
2034	744439,044	4707184,755	681,412
2035	744440,636	4707179,911	680,631
2036	744435,710	4707180,114	681,487
2037	744434,421	4707176,449	681,266
2038	744434,045	4707173,239	681,240
2039	744439,003	4707170,712	680,897
2040	744439,335	4707166,546	681,112
2041	744438,767	4707160,901	681,511
2042	744438,069	4707154,099	681,734
2043	744437,365	4707148,382	681,839
2044	744434,002	4707141,053	682,326
2045	744440,915	4707168,799	679,797
2046	744443,271	4707165,290	679,662
2047	744440,672	4707161,895	680,062
2048	744440,444	4707157,835	680,153
2049	744444,647	4707157,231	679,625
2050	744441,924	4707153,117	680,032
2051	744446,970	4707155,690	679,347
2052	744445,647	4707152,057	679,503
2053	744447,398	4707146,993	679,329
2054	744449,186	4707139,902	679,108
2055	744444,630	4707134,297	679,684
2056	744443,233	4707127,702	679,932
2057	744448,765	4707135,937	679,183
2058	744452,456	4707137,232	678,910
2059	744452,859	4707133,434	678,774
2060	744455,549	4707131,565	677,041
2061	744451,769	4707128,104	678,478
2062	744450,714	4707124,916	678,183
2063	744454,297	4707123,108	676,092
2064	744457,859	4707121,474	675,212
2065	744454,991	4707116,235	675,520
2066	744461,358	4707116,179	674,759
2067	744464,678	4707113,017	674,343
2068	744460,414	4707110,015	674,500
2069	744465,259	4707107,566	674,375
2070	744467,746	4707102,766	674,308
2071	744463,770	4707097,258	674,561
2072	744468,843	4707096,917	674,349
2073	744473,557	4707094,582	674,196



Nombre	Coordenada X	Coordenada Y	Coordenada Z
2074	744474,315	4707088,799	674,169
2075	744476,547	4707081,037	674,045
2076	744478,026	4707072,261	673,791
2077	744482,934	4707065,935	673,505
2078	744487,958	4707060,169	673,095
2079	744492,931	4707052,484	672,942
2080	744498,188	4707045,421	672,772
2081	744497,316	4707039,600	672,620
2082	744503,703	4707036,141	672,637
2083	744509,445	4707031,432	672,475
2084	744514,132	4707027,858	671,957
2085	744518,256	4707024,663	671,804
2086	744519,329	4707019,560	671,659
2087	744516,225	4707014,117	671,550
2088	744518,063	4707009,021	671,470
2089	744522,173	4707000,677	671,183
2090	744520,061	4706996,521	670,832
2091	744514,388	4706999,780	670,943
2092	744510,395	4707006,217	671,244
2093	744500,707	4707026,826	672,160
2094	744495,555	4707034,254	672,528
2095	744489,303	4707043,837	672,825
2096	744483,452	4707051,688	673,106
2097	744477,539	4707059,255	673,376
2098	744471,842	4707069,324	674,217
2099	744465,868	4707077,165	674,695
2100	744464,955	4707084,134	674,842
2101	744462,752	4707090,347	674,818
2102	744460,879	4707096,237	674,715
2103	744458,882	4707104,167	675,051
2104	744458,680	4707113,650	675,031
2105	744452,851	4707165,479	674,476
2106	744452,036	4707172,829	674,436
2107	744419,749	4707294,363	677,414
2108	744421,483	4707288,659	677,212
2109	744421,302	4707281,829	677,344
2110	744421,964	4707274,690	676,992
2111	744423,620	4707264,847	676,754
2112	744425,189	4707259,763	676,019
2113	744427,398	4707253,286	675,274
2114	744430,463	4707249,094	675,606
2115	744431,521	4707245,225	675,323

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2116	744434,302	4707240,062	675,140
2117	744435,209	4707236,735	675,309
2118	744434,873	4707231,894	675,468
2119	744436,686	4707227,011	675,259
2120	744438,105	4707221,840	675,128
2121	744441,443	4707214,332	674,706
2122	744442,822	4707206,015	674,711
2123	744444,856	4707197,363	674,695
2124	744447,636	4707190,381	674,325
2125	744449,850	4707184,064	674,317
2126	744447,954	4707199,253	674,552
2127	744448,282	4707204,109	674,730
2128	744445,427	4707208,661	674,779
2129	744446,199	4707213,778	674,943
2130	744442,502	4707217,983	674,994
2131	744425,351	4707260,313	675,986
2132	744426,712	4707264,552	676,262
2133	744428,060	4707271,993	676,345
2134	744429,636	4707278,260	676,727
2135	744430,759	4707283,162	677,122
2136	744432,710	4707287,896	677,555
2137	744436,812	4707294,301	677,341
2138	744437,436	4707296,253	677,613
2139	744438,503	4707299,810	677,743
2140	744440,578	4707299,614	676,518
2141	744439,362	4707296,135	676,400
2142	744438,156	4707293,436	676,276
2143	744436,495	4707289,464	676,297
2144	744434,875	4707286,672	676,218
2145	744432,917	4707282,985	676,221
2146	744431,106	4707278,728	676,035
2147	744430,103	4707276,328	675,954
2148	744429,291	4707271,139	675,654
2149	744427,801	4707265,835	675,432
2150	744426,846	4707262,254	675,556
2151	744425,443	4707262,956	676,476
2152	744425,027	4707266,790	676,505
2153	744425,485	4707271,238	676,438
2154	744424,317	4707274,808	676,680
2155	744427,387	4707278,777	676,642
2156	744429,144	4707283,743	676,804
2157	744425,769	4707286,291	676,943

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2158	744423,717	4707292,072	677,178
2159	744422,137	4707297,783	677,289
2160	744425,688	4707299,579	677,127
2161	744427,427	4707295,022	676,963
2162	744429,023	4707289,881	676,962
2163	744431,192	4707287,257	677,516
2164	744433,258	4707291,059	677,525
2165	744435,177	4707294,638	677,547
2166	744431,588	4707295,398	677,651
2167	744431,878	4707300,152	677,878
2168	744436,465	4707301,354	678,039
2169	744462,799	4707224,697	676,052
2170	744466,721	4707220,328	675,849
2171	744472,333	4707215,280	675,744
2172	744474,871	4707212,297	675,572
2173	744477,546	4707209,079	675,380
2174	744482,316	4707203,882	675,368
2175	744487,900	4707197,157	675,211
2176	744490,611	4707192,399	675,022
2177	744493,455	4707188,003	674,364
2178	744496,492	4707189,268	674,903
2179	744498,066	4707185,433	674,852
2180	744500,354	4707180,826	674,553
2181	744504,807	4707175,798	674,516
2182	744509,555	4707170,700	674,348
2183	744516,610	4707166,707	674,227
2184	744521,831	4707164,096	674,086
2185	744530,858	4707157,866	673,309
2186	744537,592	4707155,342	673,848
2187	744542,088	4707153,352	673,374
2188	744546,366	4707150,947	673,143
2189	744551,786	4707147,768	673,041
2190	744556,728	4707144,307	673,042
2191	744561,884	4707140,029	672,749
2192	744565,563	4707136,712	672,781
2193	744568,568	4707133,081	672,639
2194	744572,290	4707126,755	672,427
2195	744573,557	4707122,334	672,408
2196	744575,288	4707116,129	672,121
2197	744577,406	4707109,462	671,663
2198	744578,695	4707101,852	671,297

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2199	744579,342	4707096,274	671,139
2200	744580,321	4707091,121	671,069
2201	744582,610	4707087,122	671,143
2202	744584,808	4707082,722	671,059
2203	744586,819	4707078,414	670,860
2204	744589,414	4707073,962	670,547
2205	744594,154	4707070,381	670,231
2206	744597,045	4707068,770	670,545
2207	744610,586	4707062,030	670,322
2208	744616,385	4707060,523	670,148
2209	744623,079	4707057,362	669,546
2210	744630,688	4707053,411	669,468
2211	744637,421	4707050,171	669,753
2212	744646,075	4707045,921	669,581
2213	744653,865	4707042,635	669,492
2214	744659,892	4707040,852	669,429
2215	744667,331	4707040,513	669,355
2216	744672,556	4707040,703	669,137
2217	744679,075	4707040,437	668,610
2218	744677,900	4707039,468	668,017
2219	744670,909	4707039,036	668,116
2220	744664,320	4707038,565	668,125
2221	744658,745	4707038,918	668,107
2222	744654,220	4707040,232	668,184
2223	744648,853	4707042,400	668,345
2224	744642,868	4707045,165	668,372
2225	744650,853	4707048,056	669,636
2226	744653,222	4707051,607	669,681
2227	744656,719	4707058,092	669,838
2228	744668,434	4707058,710	669,704
2229	744672,967	4707049,373	669,260
2230	744678,517	4707044,101	668,750
2231	744673,139	4707046,357	668,927
2232	744669,679	4707049,930	669,241
2233	744669,496	4707059,934	669,736
2234	744666,354	4707055,637	669,581
2235	744663,936	4707062,055	669,891
2236	744658,782	4707063,918	669,995
2237	744655,403	4707057,162	669,844
2238	744648,203	4707052,565	669,738
2239	744643,808	4707052,232	669,670

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2240	744643,178	4707059,225	669,972
2241	744637,484	4707056,023	669,992
2242	744632,747	4707059,074	670,150
2243	744636,744	4707065,689	670,244
2244	744643,232	4707071,012	670,409
2245	744641,419	4707076,270	670,355
2246	744637,689	4707072,810	670,383
2247	744634,952	4707068,743	670,270
2248	744633,996	4707061,660	670,075
2249	744629,889	4707060,080	670,112
2250	744626,504	4707065,246	670,270
2251	744625,993	4707071,399	670,426
2252	744627,336	4707081,792	670,612
2253	744626,313	4707089,094	670,862
2254	744619,146	4707094,165	670,994
2255	744615,841	4707089,275	671,159
2256	744613,830	4707080,430	671,016
2257	744611,803	4707074,677	670,442
2258	744606,293	4707071,143	670,359
2259	744598,507	4707073,132	670,535
2260	744596,166	4707079,643	670,823
2261	744596,847	4707086,978	671,030
2262	744601,304	4707095,120	671,434
2263	744601,021	4707101,615	671,598
2264	744604,802	4707105,441	671,541
2265	744597,373	4707101,414	671,708
2266	744591,400	4707103,618	671,689
2267	744591,370	4707103,539	671,682
2268	744597,659	4707107,664	671,729
2269	744590,061	4707107,546	671,705
2270	744584,310	4707103,192	671,254
2271	744585,697	4707093,803	671,101
2272	744582,301	4707101,088	671,412
2273	744582,330	4707108,348	671,725
2274	744583,747	4707114,427	671,940
2275	744591,620	4707115,967	672,152
2276	744586,270	4707121,234	672,317
2277	744589,987	4707127,533	672,293
2278	744593,546	4707133,664	672,217
2279	744581,729	4707134,280	672,562
2280	744573,520	4707135,651	672,808
2281	744574,353	4707128,708	672,470

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2282	744574,475	4707145,966	672,906
2283	744565,431	4707147,327	673,179
2284	744568,726	4707159,201	673,400
2285	744558,680	4707159,933	673,528
2286	744549,975	4707155,874	673,359
2287	744547,222	4707166,937	674,008
2288	744547,751	4707174,980	674,052
2289	744539,872	4707166,510	674,139
2290	744546,166	4707176,344	674,255
2291	744541,013	4707183,441	674,809
2292	744535,855	4707185,911	675,252
2293	744531,182	4707179,091	674,933
2294	744528,378	4707171,698	674,515
2295	744519,714	4707168,970	674,095
2296	744518,504	4707175,772	674,308
2297	744513,601	4707176,540	674,482
2298	744505,962	4707182,217	674,750
2299	744509,887	4707189,796	674,911
2300	744514,553	4707195,451	675,327
2301	744513,889	4707203,550	675,737
2302	744508,133	4707204,897	675,410
2303	744503,320	4707205,816	675,406
2304	744499,290	4707200,853	675,411
2305	744492,971	4707203,062	675,232
2306	744489,646	4707206,269	675,296
2307	744495,893	4707212,030	675,693
2308	744494,798	4707217,884	675,450
2309	744496,649	4707225,996	675,898
2310	744496,879	4707233,125	676,007
2311	744498,675	4707243,673	676,445
2312	744494,460	4707248,813	676,606
2313	744495,301	4707254,334	676,956
2314	744490,826	4707261,366	677,310
2315	744486,300	4707263,755	677,143
2316	744483,749	4707267,883	677,280
2317	744484,042	4707273,118	677,832
2318	744478,403	4707278,254	677,928
2319	744473,419	4707282,137	678,460
2320	744470,805	4707280,391	678,188
2321	744469,734	4707275,434	678,027
2322	744463,115	4707277,772	677,355
2323	744457,234	4707276,587	677,397

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2324	744450,756	4707271,450	677,274
2325	744453,834	4707263,935	677,211
2326	744458,743	4707258,827	676,941
2327	744456,359	4707250,953	676,642
2328	744456,682	4707244,416	676,446
2329	744460,996	4707242,106	675,908
2330	744459,264	4707235,821	675,781
2331	744463,263	4707233,269	676,181
2332	744468,740	4707232,748	676,300
2333	744469,993	4707226,472	675,892
2334	744475,642	4707223,990	676,356
2335	744477,432	4707217,228	675,729
2336	744444,703	4707055,652	676,054
2337	744447,082	4707055,002	675,790
2338	744447,122	4707054,315	676,131
2339	744447,082	4707053,167	676,295
2340	744447,563	4707051,715	676,262
2341	744448,598	4707052,780	676,214
2342	744451,740	4707050,896	675,757
2343	744453,315	4707047,764	675,654
2344	744454,609	4707044,361	675,405
2345	744454,886	4707039,955	675,197
2346	744454,867	4707036,309	674,898
2347	744454,172	4707031,414	674,734
2348	744454,272	4707027,506	674,366
2349	744454,749	4707022,394	673,912
2350	744454,918	4707016,822	673,583
2351	744456,030	4707008,805	673,187
2352	744458,024	4707001,706	672,783
2353	744460,055	4706993,548	672,624
2354	744460,134	4706986,723	672,323
2355	744459,827	4706982,763	672,111
2356	744458,869	4706978,983	671,915
2357	744457,760	4706975,272	671,764
2358	744456,508	4706972,121	671,628
2359	744458,512	4706970,711	671,588
2360	744459,311	4706971,944	671,635
2361	744460,495	4706974,656	671,701
2362	744461,201	4706976,712	671,777
2363	744461,570	4706978,614	671,843
2364	744461,759	4706980,383	671,961

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2365	744462,310	4706979,445	671,902
2366	744463,943	4706977,687	671,787
2367	744466,312	4706976,456	671,639
2368	744468,192	4706975,609	671,505
2369	744471,266	4706975,119	671,167
2370	744475,877	4706974,572	670,799
2371	744479,802	4706974,519	670,637
2372	744483,911	4706974,405	670,450
2373	744487,247	4706974,381	670,201
2374	744492,546	4706974,424	669,631
2375	744495,630	4706973,622	669,109
2376	744497,077	4706972,449	668,719
2377	744498,946	4706972,752	668,013
2378	744498,233	4706971,843	668,038
2379	744494,991	4706972,224	669,846
2380	744494,618	4706972,814	669,921
2381	744493,854	4706972,931	670,086
2382	744493,312	4706973,108	670,156
2383	744488,571	4706973,355	670,382
2384	744488,197	4706971,683	670,402
2385	744485,780	4706971,042	670,399
2386	744482,212	4706970,583	670,510
2387	744476,783	4706972,239	670,785
2388	744474,294	4706968,880	670,887
2389	744474,789	4706965,444	670,779
2390	744474,222	4706960,939	670,296
2391	744477,539	4706960,670	670,077
2392	744479,601	4706957,701	669,637
2393	744481,959	4706956,654	669,518
2394	744482,568	4706955,933	669,423
2395	744482,995	4706955,564	667,299
2396	744480,498	4706957,636	669,609
2397	744477,882	4706958,815	669,768
2398	744477,460	4706962,771	670,159
2399	744474,689	4706965,549	670,786
2400	744475,791	4706970,536	670,822
2401	744480,536	4706977,281	670,714
2402	744482,168	4706982,260	671,036
2403	744485,146	4706986,698	670,836
2404	744486,952	4706991,105	670,844
2405	744487,571	4706993,560	670,680

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2406	744489,560	4706996,862	671,016
2407	744492,576	4707000,749	671,090
2408	744496,565	4707005,234	670,869
2409	744499,631	4707008,454	671,082
2410	744502,124	4707012,567	671,495
2411	744507,458	4707016,166	671,861
2412	744511,032	4707016,652	671,839
2413	744513,329	4707018,126	671,805
2414	744513,718	4707021,029	671,967
2415	744516,481	4707023,956	671,971
2416	744518,263	4707022,391	671,789
2417	744515,108	4707022,509	672,024
2418	744513,930	4707023,703	672,054
2419	744514,430	4707026,248	672,043
2420	744515,908	4707029,605	671,734
2421	744513,887	4707019,916	671,898
2422	744512,802	4707015,729	671,725
2423	744512,447	4707016,418	671,844
2424	744511,376	4707012,436	671,574
2425	744514,206	4707007,440	671,265
2426	744516,642	4707006,001	671,258
2427	744518,427	4707003,903	671,269
2428	744519,762	4706999,753	670,977
2429	744520,341	4706996,951	670,806
2430	744521,191	4706994,576	670,461
2431	744520,343	4706993,533	670,422
2432	744519,238	4706992,936	670,273
2433	744515,917	4706991,537	670,141
2434	744512,961	4706989,868	670,206
2435	744510,485	4706988,476	670,295
2436	744509,641	4706987,385	670,287
2437	744508,473	4706986,523	670,166
2438	744505,203	4706983,697	670,287
2439	744502,962	4706981,484	670,063
2440	744501,323	4706980,030	670,239
2441	744505,575	4706981,042	669,156
2442	744508,029	4706980,786	668,044
2443	744509,383	4706985,280	669,285
2444	744513,206	4706988,991	669,629
2445	744520,699	4706993,072	669,461
2446	744525,421	4706997,514	669,964
2447	744525,047	4706998,936	670,267

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2448	744524,385	4706998,805	670,914
2449	744523,806	4707000,927	671,016
2450	744524,698	4707000,911	670,121
2451	744522,000	4707007,808	670,822
2452	744521,223	4707007,405	671,002
2453	744518,809	4707009,151	671,370
2454	744516,365	4707011,309	671,599
2455	744514,914	4707015,614	671,593
2456	744512,342	4707018,736	671,880
2457	744507,381	4707016,404	671,852
2458	744503,064	4707014,052	671,613
2459	744499,699	4707011,019	671,360
2460	744496,392	4707009,061	671,000
2461	744491,937	4707006,419	671,298
2462	744501,368	4707019,524	671,944
2463	744501,600	4707023,425	672,040
2464	744500,867	4707026,767	672,139
2465	744501,058	4707029,868	672,244
2466	744501,070	4707029,936	672,249
2467	744501,777	4707035,527	672,502
2468	744500,521	4707039,334	672,554
2469	744499,010	4707041,632	672,550
2470	744497,759	4707045,704	672,690
2471	744495,280	4707048,767	672,703
2472	744492,651	4707052,588	672,848
2473	744491,189	4707056,127	672,907
2474	744490,127	4707059,124	673,033
2475	744488,519	4707064,080	673,207
2476	744486,262	4707068,030	673,282
2477	744482,223	4707068,867	673,458
2478	744473,775	4707064,874	673,683
2479	744470,171	4707066,418	673,929
2480	744466,923	4707066,292	674,165
2481	744464,375	4707065,993	674,292
2482	744461,693	4707064,960	674,321
2483	744460,186	4707066,683	674,583
2484	744459,314	4707068,861	674,798
2485	744457,719	4707070,608	675,372
2486	744456,783	4707069,822	675,351
2487	744456,502	4707067,981	675,309
2488	744457,324	4707066,014	675,396
2489	744453,737	4707068,470	675,543



Nombre	Coordenada X	Coordenada Y	Coordenada Z
2490	744451,934	4707065,799	675,793
2491	744459,819	4707072,508	675,093
2492	744466,182	4707076,903	674,569
2493	744471,678	4707077,435	674,220
2494	744476,615	4707078,894	673,909
2495	744488,166	4707063,469	673,159
2496	744489,341	4707059,054	672,976
2497	744492,738	4707054,260	672,848
2498	744495,264	4707051,577	672,805
2499	744497,341	4707048,538	672,712
2500	744498,906	4707045,250	672,648
2501	744501,061	4707041,458	672,526
2502	744503,786	4707041,003	672,496
2503	744506,945	4707039,469	672,179
2504	744510,511	4707040,714	671,494
2505	744514,109	4707040,672	671,412
2506	744514,924	4707040,577	671,327
2507	744514,881	4707040,621	671,360
2508	744516,884	4707039,027	671,312
2509	744514,939	4707036,339	671,411
2510	744516,155	4707030,365	671,613
2511	744519,457	4707028,374	671,184
2512	744524,637	4707034,843	671,112
2513	744522,678	4707036,270	671,045
2514	744523,721	4707037,255	670,265
2515	744526,136	4707034,970	670,705
2516	744526,015	4707034,102	671,053
2517	744530,578	4707030,031	670,946
2518	744532,086	4707030,602	670,056
2519	744534,816	4707030,709	669,952
2520	744537,719	4707028,218	669,963
2521	744537,724	4707026,352	669,890
2522	744536,926	4707025,282	670,597
2523	744542,944	4707025,742	669,555
2524	744543,326	4707024,185	669,697
2525	744542,429	4707021,695	670,609
2526	744544,652	4707017,069	670,358
2527	744544,857	4707018,172	670,135
2528	744546,131	4707021,173	669,733
2529	744549,393	4707022,103	669,076
2530	744551,176	4707019,744	668,992

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2531	744554,975	4707016,691	668,616
2532	744552,943	4707015,500	670,121
2533	744554,745	4707015,230	668,902
2534	744558,118	4707016,289	668,296
2535	744560,113	4707015,648	668,141
2536	744563,490	4707015,947	668,122
2537	744565,888	4707014,037	667,909
2538	744563,693	4707011,307	667,982
2539	744564,182	4707010,670	667,737
2540	744560,863	4707007,866	667,638
2541	744554,383	4707006,376	667,682
2542	744553,687	4707007,504	668,303
2543	744552,264	4707008,122	668,421
2544	744550,186	4707007,440	668,425
2545	744549,068	4707006,918	668,407
2546	744546,710	4707005,842	668,365
2547	744548,367	4707005,096	667,655
2548	744545,655	4707005,260	668,397
2549	744550,358	4707008,094	668,517
2550	744552,239	4707008,060	668,441
2551	744556,501	4707009,122	668,383
2552	744563,159	4707013,630	668,159
2553	744566,528	4707015,155	667,759
2554	744563,012	4707019,931	667,985
2555	744560,633	4707019,627	668,082
2556	744556,617	4707020,296	668,050
2557	744556,167	4707026,940	668,193
2558	744556,890	4707028,737	668,779
2559	744559,097	4707029,526	669,135
2560	744562,024	4707027,748	669,329
2561	744564,728	4707024,467	669,226
2562	744564,426	4707021,973	668,798
2563	744565,911	4707019,739	668,798
2564	744567,516	4707018,142	668,715
2565	744569,484	4707018,846	668,994
2566	744569,097	4707016,547	668,950
2567	744571,222	4707017,044	669,067
2568	744575,549	4707018,176	668,952
2569	744573,510	4707022,624	669,132
2570	744575,052	4707025,778	668,794
2571	744577,958	4707025,369	668,671

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2572	744573,686	4707027,707	668,884
2573	744569,519	4707028,843	668,997
2574	744565,963	4707030,847	669,105
2575	744563,207	4707031,620	669,052
2576	744560,221	4707032,329	669,197
2577	744558,300	4707032,130	669,216
2578	744555,272	4707031,576	668,993
2579	744553,218	4707030,900	668,468
2580	744551,685	4707032,042	668,521
2581	744549,460	4707034,723	668,915
2582	744545,094	4707038,192	669,000
2583	744542,781	4707040,087	669,057
2584	744541,464	4707042,759	669,312
2585	744538,608	4707043,753	669,244
2586	744535,019	4707045,266	668,975
2587	744532,641	4707047,299	669,078
2588	744529,492	4707049,801	669,152
2589	744525,160	4707047,705	669,878
2590	744522,289	4707049,313	670,148
2591	744519,764	4707050,729	670,332
2592	744516,700	4707053,103	670,460
2593	744513,708	4707055,193	670,613
2594	744510,013	4707057,558	670,773
2595	744507,201	4707057,610	671,077
2596	744504,624	4707062,048	671,020
2597	744501,761	4707063,683	671,142
2598	744500,365	4707066,650	671,471
2599	744499,177	4707070,956	671,396
2600	744500,268	4707074,139	671,394
2601	744500,515	4707079,572	671,354
2602	744498,140	4707170,516	674,197
2603	744498,857	4707169,287	674,366
2604	744500,708	4707166,823	674,319
2605	744502,129	4707165,281	674,357
2606	744504,812	4707162,863	674,438
2607	744508,630	4707158,901	674,257
2608	744511,407	4707156,792	674,174
2609	744514,292	4707153,686	673,948
2610	744517,205	4707151,195	673,933
2611	744521,463	4707148,736	673,802
2612	744526,303	4707145,650	673,624
2613	744532,076	4707143,012	673,421

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2614	744536,873	4707142,078	673,232
2615	744541,928	4707141,469	673,170
2616	744545,405	4707139,846	672,975
2617	744549,388	4707137,489	672,769
2618	744551,754	4707136,014	672,783
2619	744555,509	4707133,563	672,474
2620	744559,042	4707130,269	672,120
2621	744560,825	4707125,871	671,948
2622	744565,361	4707122,601	671,647
2623	744566,851	4707119,049	671,650
2624	744567,470	4707115,237	671,581
2625	744569,720	4707107,939	671,287
2626	744570,520	4707103,498	671,079
2627	744571,176	4707097,461	670,920
2628	744571,894	4707091,797	670,520
2629	744571,497	4707083,396	671,427
2630	744570,472	4707085,589	671,347
2631	744568,409	4707084,761	671,497
2632	744567,384	4707088,171	671,365
2633	744565,547	4707087,669	671,576
2634	744565,805	4707090,171	671,595
2635	744564,955	4707091,737	671,637
2636	744565,819	4707094,208	672,045
2637	744565,025	4707096,564	672,018
2638	744561,864	4707101,041	672,229
2639	744559,196	4707100,532	672,360
2640	744556,215	4707099,476	672,232
2641	744560,108	4707103,761	672,155
2642	744557,794	4707104,111	672,431
2643	744556,476	4707103,929	672,419
2644	744555,313	4707104,388	672,457
2645	744554,358	4707102,252	672,407
2646	744550,340	4707102,098	672,511
2647	744548,992	4707102,239	672,234
2648	744548,964	4707103,227	672,522
2649	744547,362	4707104,152	672,340
2650	744546,867	4707105,307	672,585
2651	744547,122	4707106,146	672,670
2652	744548,066	4707107,215	672,403
2653	744548,650	4707109,261	672,147
2654	744549,510	4707109,905	672,134
2655	744550,904	4707109,044	672,072

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2656	744550,529	4707110,425	672,129
2657	744550,674	4707111,858	672,189
2658	744552,187	4707112,758	672,068
2659	744553,529	4707112,123	672,078
2660	744554,391	4707110,598	671,979
2661	744557,246	4707114,145	671,945
2662	744558,876	4707111,381	671,855
2663	744559,195	4707109,617	671,618
2664	744558,876	4707108,500	671,389
2665	744561,869	4707107,507	671,196
2666	744562,579	4707107,490	671,148
2667	744563,594	4707106,432	671,076
2668	744563,859	4707103,020	671,044
2669	744562,829	4707102,369	671,635
2670	744566,541	4707098,132	670,958
2671	744567,576	4707098,446	670,869
2672	744569,295	4707098,873	670,874
2673	744570,165	4707097,412	670,726
2674	744569,752	4707096,111	670,689
2675	744567,613	4707094,476	670,922
2676	744569,534	4707094,295	670,591
2677	744570,653	4707093,782	670,587
2678	744571,356	4707092,722	670,522
2679	744570,706	4707090,523	670,540
2680	744568,513	4707102,493	671,039
2681	744567,095	4707105,074	671,237
2682	744565,749	4707107,098	671,276
2683	744565,641	4707110,026	671,317
2684	744565,679	4707112,402	671,368
2685	744566,246	4707115,598	671,495
2686	744564,592	4707116,334	671,501
2687	744562,301	4707117,008	671,569
2688	744560,252	4707117,192	671,644
2689	744558,313	4707116,505	671,897
2690	744556,400	4707117,272	672,080
2691	744554,951	4707118,564	672,128
2692	744553,297	4707120,128	672,170
2693	744550,351	4707120,253	672,260
2694	744548,525	4707118,843	672,436
2695	744553,571	4707122,125	672,270
2696	744554,081	4707123,717	672,064

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2697	744554,185	4707126,530	671,843
2698	744555,089	4707127,710	671,912
2699	744556,209	4707128,799	671,964
2700	744556,829	4707130,154	672,194
2701	744555,872	4707131,040	672,407
2702	744555,504	4707132,711	672,471
2703	744554,482	4707133,857	672,648
2704	744553,207	4707133,126	672,413
2705	744551,662	4707134,287	672,527
2706	744549,270	4707134,686	672,560
2707	744548,955	4707135,979	672,745
2708	744549,095	4707137,736	672,817
2709	744545,113	4707140,123	673,021
2710	744544,099	4707139,480	673,010
2711	744542,833	4707138,984	672,996
2712	744541,973	4707137,212	673,039
2713	744541,292	4707134,746	672,807
2714	744540,713	4707133,130	672,810
2715	744538,886	4707132,234	672,999
2716	744535,163	4707130,927	673,223
2717	744531,661	4707128,154	673,325
2718	744530,804	4707126,103	673,092
2719	744528,152	4707127,582	673,211
2720	744527,507	4707129,562	673,254
2721	744526,277	4707129,688	673,359
2722	744526,007	4707132,693	673,526
2723	744527,168	4707133,466	673,511
2724	744530,281	4707134,360	673,326
2725	744530,722	4707135,655	673,411
2726	744517,436	4707135,315	673,607
2727	744518,753	4707138,651	673,781
2728	744520,978	4707139,989	673,800
2729	744521,412	4707142,681	673,652
2730	744522,939	4707146,156	673,688
2731	744518,717	4707148,250	673,812
2732	744516,157	4707146,596	673,886
2733	744512,117	4707144,594	673,872
2734	744508,955	4707144,422	673,871
2735	744513,960	4707150,029	674,016
2736	744510,120	4707150,029	674,029
2737	744508,278	4707155,842	674,202

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2738	744503,832	4707156,542	674,146
2739	744501,406	4707162,374	674,335
2740	744497,519	4707162,972	674,180
2741	744495,540	4707162,242	674,461
2742	744496,968	4707167,452	674,207
2743	744495,221	4707168,256	674,055
2744	744493,822	4707168,685	673,865
2745	744492,081	4707170,600	674,038
2746	744488,005	4707170,076	673,997
2747	744488,253	4707167,961	673,970
2748	744487,721	4707165,925	673,991
2749	744487,169	4707162,873	673,778
2750	744487,652	4707159,729	673,780
2751	744486,318	4707158,912	673,892
2752	744487,054	4707157,593	673,848
2753	744487,642	4707156,225	673,766
2754	744487,857	4707155,850	673,821
2755	744489,051	4707154,629	673,362
2756	744491,885	4707150,772	673,467
2757	744491,703	4707151,242	673,415
2758	744491,664	4707152,484	673,326
2759	744491,895	4707154,004	673,268
2760	744492,993	4707156,070	673,340
2761	744493,571	4707157,487	673,432
2762	744493,896	4707159,280	673,379
2763	744493,826	4707160,920	673,455
2764	744493,961	4707163,063	673,604
2765	744493,830	4707166,674	673,707
2766	744490,582	4707168,760	673,854
2767	744506,010	4707182,299	674,674
2768	744507,607	4707185,855	674,767
2769	744509,167	4707189,512	674,854
2770	744510,278	4707192,693	674,788
2771	744519,337	4707185,596	674,721
2772	744536,685	4707171,578	674,084
2773	744542,100	4707169,329	674,056
2774	744546,740	4707167,743	673,942
2775	744552,245	4707165,735	673,782
2776	744557,201	4707164,197	673,595
2777	744561,893	4707161,659	673,431
2778	744567,937	4707159,203	673,312
2779	744572,559	4707156,057	673,104

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2780	744578,287	4707152,740	672,824
2781	744583,864	4707151,375	673,480
2782	744590,865	4707148,597	673,404
2783	744593,725	4707145,582	673,017
2784	744596,690	4707141,746	672,566
2785	744597,942	4707137,698	672,216
2786	744597,963	4707134,707	672,095
2787	744602,227	4707131,749	671,915
2788	744606,938	4707130,746	672,197
2789	744607,522	4707130,692	672,267
2790	744608,942	4707129,767	672,206
2791	744606,707	4707130,111	672,161
2792	744610,641	4707126,754	672,014
2793	744614,443	4707123,578	671,601
2794	744619,507	4707120,618	671,784
2795	744618,749	4707117,784	671,157
2796	744618,620	4707116,097	670,745
2797	744618,023	4707114,917	670,604
2798	744617,760	4707113,457	670,579
2799	744617,676	4707112,358	670,956
2800	744617,536	4707111,020	671,223
2801	744618,298	4707109,597	671,220
2802	744619,574	4707107,863	671,166
2803	744620,494	4707106,152	671,135
2804	744619,535	4707104,777	671,162
2805	744618,164	4707104,546	671,029
2806	744615,922	4707103,779	670,783
2807	744613,065	4707103,355	671,065
2808	744611,456	4707100,806	671,215
2809	744620,678	4707129,586	672,203
2810	744619,984	4707134,153	672,246
2811	744620,199	4707137,774	672,337
2812	744622,034	4707141,132	672,347
2813	744624,544	4707144,492	672,543
2814	744625,298	4707147,992	672,636
2815	744627,571	4707151,050	672,748
2816	744631,164	4707150,513	672,763
2817	744628,531	4707160,101	674,226
2818	744626,110	4707157,208	673,343
2819	744622,377	4707154,875	672,979
2820	744618,299	4707154,806	672,900
2821	744616,257	4707158,317	673,168

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2822	744617,233	4707161,216	673,422
2823	744620,035	4707166,761	674,682
2824	744610,529	4707174,230	674,170
2825	744604,249	4707176,949	674,277
2826	744597,100	4707187,126	674,957
2827	744588,812	4707192,771	674,998
2828	744580,176	4707204,548	675,523
2829	744570,738	4707209,834	675,587
2830	744563,717	4707216,274	676,193
2831	744559,530	4707222,951	676,952
2832	744555,904	4707227,853	676,746
2833	744550,352	4707231,557	676,558
2834	744550,519	4707237,509	676,758
2835	744549,024	4707243,477	676,961
2836	744550,878	4707248,812	677,142
2837	744548,248	4707252,480	677,263
2838	744544,303	4707256,017	677,502
2839	744541,215	4707260,809	677,817
2840	744537,482	4707263,184	677,908
2841	744533,416	4707261,208	677,748
2842	744531,133	4707263,870	677,787
2843	744527,440	4707266,192	677,876
2844	744527,417	4707272,712	678,021
2845	744528,101	4707278,275	678,182
2846	744527,231	4707283,657	678,391
2847	744525,703	4707287,662	678,526
2848	744520,042	4707285,853	678,728
2849	744518,787	4707283,303	678,587
2850	744518,509	4707280,549	678,558
2851	744517,398	4707278,534	678,249
2852	744515,010	4707278,820	677,909
2853	744510,767	4707280,556	677,929
2854	744508,911	4707278,910	677,776
2855	744509,227	4707275,188	677,610
2856	744509,335	4707271,786	677,594
2857	744506,437	4707269,697	677,573
2858	744501,379	4707269,463	677,676
2859	744501,146	4707254,494	676,907
2860	744502,284	4707254,902	676,418
2861	744505,043	4707253,132	676,304
2862	744501,447	4707257,907	676,455

Nombre	Coordenada X	Coordenada Y	Coordenada Z
2863	744502,800	4707259,390	676,453
2864	744499,593	4707259,499	676,957
2865	744497,039	4707263,765	677,244
2866	744497,409	4707265,301	676,948
2867	744499,223	4707268,291	676,799
2868	744500,470	4707269,886	677,664
2869	744495,653	4707275,857	677,711
2870	744493,790	4707275,801	677,046
2871	744491,017	4707275,597	677,044
2872	744489,450	4707274,904	677,719
2873	744485,056	4707274,357	677,859
2874	744492,819	4707278,107	677,872
2875	744489,496	4707283,331	677,982
2876	744487,668	4707286,097	678,178
2877	744486,102	4707281,385	677,530
2878	744486,919	4707282,362	677,051
2879	744487,948	4707283,133	677,098
2880	744481,200	4707287,730	677,905
2881	744481,549	4707288,847	677,735
2882	744481,851	4707290,502	677,773
2883	744481,690	4707292,835	677,932
2884	744481,882	4707294,385	678,158
2885	744482,115	4707296,188	678,237
2886	744479,597	4707299,097	678,255
2887	744477,897	4707299,363	678,058
2888	744476,487	4707299,039	678,078
2889	744475,882	4707300,103	678,039
2890	744484,062	4707299,965	679,078
2891	744484,373	4707300,100	679,132
2892	744483,556	4707300,671	679,071
2893	744483,890	4707300,886	679,157
2894	744483,203	4707301,218	679,465
2895	744483,115	4707301,343	679,464
2896	744485,940	4707310,433	685,739
2897	744485,972	4707309,815	685,578
2898	744480,865	4707310,126	685,785
2899	744480,902	4707309,508	685,763
2900	744479,799	4707309,988	685,787
2901	744479,840	4707309,524	685,831
2902	744485,332	4707311,490	685,802
2903	744484,838	4707311,633	685,827



Nombre	Coordenada X	Coordenada Y	Coordenada Z
2904	744479,940	4707311,117	685,877
2905	744479,895	4707310,906	685,872
2906	744478,738	4707309,531	685,848
2907	744485,214	4707311,196	685,652
2908	744482,103	4707318,648	685,222
2909	744482,159	4707318,212	685,631
2910	744480,186	4707317,957	685,665
2911	744479,151	4707317,737	685,735
2912	744479,112	4707318,130	685,654
2913	744482,303	4707317,178	685,779
2914	744482,261	4707316,911	685,819

## 6. FOTOS DEL VUELO CON SITUACIÓN DE PUNTOS DE APOYO





