

Proyecto de Urbanización de la  
Unidad de Ejecución 1 de la  
Actuación Integrada 1 del Área  
Mixta de Zorrotzaurre.

**ANEJO Nº 3. TRAZADO**



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIAK OREZKARITZA

12/01/2018

VISADO BISATUA

**A03-2. ZONA RIBERA ZORROZAURRE**





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## ÍNDICE

1. INTRODUCCIÓN .....	1
2. EXPLICACIONES AL LISTADO DE ALINEACIONES EN PLANTA.....	1
3. EXPLICACIONES AL LISTADO DE RASANTES.....	2
4. EXPLICACIONES AL LISTADO DE PUNTOS CADA 10 METROS.....	2
5. LISTADO DE LAS ALINEACIONES.....	3





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## 1. INTRODUCCIÓN

Para la definición y diseño del proyecto **“Recuperación Integral de Sabino Arana. Tramo: Avenida del Ferrocarril - Autonomía”** se ha utilizado el software de ingeniería civil Mx.

Mx es un sistema pionero en el diseño interactivo que consta de un conjunto de módulos de ordenador que permiten la definición, diseño, dibujo, mediciones y presupuesto de una obra, sea esta un ferrocarril, una carretera, una urbanización, trabajos de rehabilitación y renovación de firmes, obras hidráulicas o trabajos de movimientos de tierra de forma integrada e interactiva.

Se compone de los siguientes módulos:

- MxRoad es una aplicación que permite el diseño eficaz de una solución de carretera desde la introducción de los datos del terreno existente hasta la producción de planos e informes que definen la solución. Durante todo el diseño, hay herramientas disponibles que permiten el análisis o visualización del diseño de forma que puede comprobarse y confirmarse cada paso del proceso del diseño.
- MxRenew es una herramienta informatizada que permite adaptar diseños a firmes existentes a efectos de rehabilitación, refuerzo y ensanche. Ofrece una solución global al complejo problema de la restauración de capas de rodadura.
- MxRail utiliza toda la potencia y flexibilidad de Mx permitiendo diseñar ejes tridimensionales que representan vías de línea sencilla, desvíos sencillos, cruces de rombo, vías de cruce y distribuciones complejas de varias entradas. Se ha desarrollado en conjunción con reputados ingenieros ferroviarios internacionales y se basa en los métodos de diseño tradicionales utilizados en todo el mundo y desarrollados por la industria ferroviaria durante muchos años. MxRail se ha concebido específicamente para el diseño de vías férreas o metro ligero, no obstante, cuando se utiliza junto con otros módulos, el paquete se puede emplear para integrar el diseño de almacenes de estación, terminales de carga y otras instalaciones del ferrocarril.
- MxSite se utiliza para el desarrollo de zonas residenciales, comerciales e industriales. Es ideal tanto para el Diseño 2D y como 3D de carreteras, cruces, fondos de saco, movimientos de tierras, diseño de zonas de aparcamiento, secciones, drenaje, y volúmenes.
- MxUrban es una aplicación para el diseño de mejoras viarias en zonas urbanas. Admite todo tipo de tareas de rehabilitación urbana, desde refuerzos entre las líneas de los bordillos ya existentes hasta la reconstrucción completa tanto de la calle como de las aceras.
- MxDraw se usa para una producción final de planos rápida y eficaz. Se pueden crear presentaciones compuestas para plantas, longitudinales y perfiles transversales.

Con el mismo software se han obtenido los listados que aparecen en el apartado 5 de este mismo anejo. Para un mejor entendimiento de los mismos se dará previamente una breve explicación en los apartados 2, 3 y 4.

## 2. EXPLICACIONES AL LISTADO DE ALINEACIONES EN PLANTA

El listado de salida del estado de alineaciones en planta de un eje contiene 5 columnas, representando cada una de las mismas lo siguiente:

- NOM : Código interno del ordenador
- CARACTERÍSTICAS : Clasifica el tipo de alineación - circular, curva de transición (clotoide) y recta -, representando los datos que definen cada una de ellas:
  - XC : Abscisa del centro en alineación circular.
  - YC : Ordenada del centro en alineación circular.
  - R : Radio de la alineación circular en metros:
    - ~ (+) giro derecha.
    - ~ (-) giro izquierda.
  - A : Parámetro de la curva de transición (clotoide).
- ACIMUT : Acimut de la alineación recta en grados centesimales.
- DESARROLLO : Longitud parcial en metros de cada alineación.
- P.K : Punto kilométrico, en metros, de los puntos de tangencia de cada alineación.
- X : Abscisa del punto singular en metros.
- Y : Ordenada del punto singular en metros.

### 3. EXPLICACIONES AL LISTADO DE RASANTES

El listado de salida para la definición del estado de rasantes se compone de 5 columnas, con el siguiente significado:

- NOM : Código interno del ordenador.
- CARACTERÍSTICAS : Clasifica el tipo de alineación (rampa, pendiente y acuerdo vertical), representando los datos que definen cada una de ellas:
  - PENTE: Inclinación de la rasante entre acuerdos verticales:
    - ~ (+) rampa.
    - ~ (-) pendiente.
  - Kv: Parámetro del acuerdo vertical correspondiente:
    - ~ (+) cóncavo.
    - ~ (-) convexo.
  - En los casos correspondientes también ofrece el punto kilométrico (P.K.) y la cota (Z) del punto del acuerdo con pendiente cero.
- DESARROLLO : Longitud del acuerdo vertical, o del tramo en rampa o pendiente comprendido entre acuerdos.
- P.K : Punto kilométrico en metros.
- COTA : Altitud o cota de la rasante.

### 4. EXPLICACIONES AL LISTADO DE PUNTOS CADA 10 METROS

El listado de salida de la relación de puntos sucesivos del eje contiene 7 columnas, representando los datos que definen el mencionado eje tanto en planta como en alzado. El significado de cada columna es el siguiente:

- PUNTO: Enumeración de los puntos considerados (singulares y cada 10 m)
- X: Abscisa del punto en metros
- Y: Ordenada del punto, en metros.
- COTA: Altitud o cota de la rasante en metros
- P.K.: Punto kilométrico en metros
- ACIMUT: Acimut de la tangente al punto en grados centesimales.
- RADIO: Radio de curvatura instantáneo en el punto considerado.



## 5. LISTADO DE LAS ALINEACIONES

A continuación se incluyen los listados de las alineaciones en planta, alzado y puntos cada 10 metros de los diferentes ejes que forman parte del proyecto.

Los ejes se han dispuesto en el siguiente orden:

- EJE 04
- EJE 12
- EJE 13
- EJE 14
- EJE 15
- EJE 16
- EJE 17
- EJE 18

Nota : El "EJE 03" pertenece al tramo 2 del proyecto.



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EJE 04





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ALINEACIONES EN PLANTA

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-04	Centreline Alignment	0+000.00	0+615.84	615.8368

  

Point	Station	Easting	Northing	Elevation	Bearing	Alignment Radius	Entity	Alignment Point Code
1	0+000.00	502434.9194	4791654.0594		94° 9' 41.052"	Infinity	Line	Start Point
2	0+160.37	502594.8677	4791642.4219		94° 9' 41.052"	110.0000	Curve	Tangent Point
3	0+195.92	502629.2911	4791634.2094		112° 40' 30.723"	Infinity	Line	Tangent Point
4	0+241.89	502671.7154	4791616.4845		112° 40' 30.723"	400.0000	Curve	Tangent Point
5	0+251.88	502680.8854	4791612.5181		114° 6' 22.896"	-400.0000	Curve	Tangent Point
6	0+261.88	502690.0554	4791608.5516		112° 40' 30.720"	Infinity	Line	Tangent Point
7	0+359.74	502780.3593	4791570.8226		112° 40' 30.720"	-85.0000	Curve	Tangent Point
8	0+425.97	502844.9215	4791570.4227		68° 2' 4.207"	Infinity	Line	Tangent Point
9	0+615.84	503021.0054	4791641.4419		68° 2' 4.207"	Infinity	Line	End Point

ALINEACIONES EN ALZADO

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-04	Layout Profile	0+130.00	0+590.83	460.8348

  

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
1	0+000.00					Start Point	
2	0+130.00	11.094	-1.00 %	Infinity	Tangent		Start Point
3	0+140.50	10.989	-1.00 %	1320.0000	Symmetric Parabolic		Tangent Point
4	0+160.37	10.641	-2.51 %	1320.0000	Symmetric Parabolic	Tangent Point	
5	0+177.81	10.089	-3.83 %	Infinity	Tangent		Tangent Point
6	0+183.69	9.864	-3.83 %	9999.9530	Symmetric Parabolic		Tangent Point
7	0+195.92	9.388	-3.95 %	9999.9530	Symmetric Parabolic	Tangent Point	
8	0+201.05	9.184	-4.00 %	Infinity	Tangent		Tangent Point
9	0+219.73	8.437	-4.00 %	-4999.9986	Symmetric Parabolic		Tangent Point
10	0+241.89	7.600	-3.56 %	-4999.9986	Symmetric Parabolic	Tangent Point	
11	0+251.88	7.254	-3.36 %	-4999.9986	Symmetric Parabolic	Tangent Point	
12	0+258.56	7.035	-3.22 %	Infinity	Tangent		Tangent Point
13	0+261.88	6.928	-3.22 %	Infinity	Tangent	Tangent Point	
14	0+265.21	6.821	-3.22 %	-2000.0004	Symmetric Parabolic		Tangent Point
15	0+313.67	5.846	-0.80 %	Infinity	Tangent		Tangent Point
16	0+359.74	5.477	-0.80 %	Infinity	Tangent	Tangent Point	
17	0+363.40	5.448	-0.80 %	-1499.9981	Symmetric Parabolic		Tangent Point
18	0+375.40	5.400	0.00 %	-1499.9981	Symmetric Parabolic		Sag Point
19	0+387.40	5.448	0.80 %	Infinity	Tangent		Tangent Point
20	0+423.65	5.738	0.80 %	-750.0007	Symmetric Parabolic		Tangent Point
21	0+425.97	5.760	1.11 %	-750.0007	Symmetric Parabolic	Tangent Point	
22	0+444.31	6.188	3.56 %	Infinity	Tangent		Tangent Point
23	0+452.47	6.478	3.56 %	500.0001	Symmetric Parabolic		Tangent Point
24	0+470.25	6.794	0.00 %	500.0001	Symmetric Parabolic		Crest Point
25	0+488.03	6.478	-3.56 %	Infinity	Tangent		Tangent Point
26	0+546.93	4.384	-3.56 %	-390.0000	Symmetric Parabolic		Tangent Point
27	0+560.79	4.138	0.00 %	-390.0000	Symmetric Parabolic		Sag Point
28	0+564.89	4.159	1.05 %	Infinity	Tangent		Tangent Point
29	0+571.85	4.232	1.05 %	-115.0000	Symmetric Parabolic		Tangent Point
30	0+588.15	5.559	15.23 %	Infinity	Tangent		Tangent Point
31	0+590.83	5.967	15.23 %	Infinity	Tangent		End Point
32	0+615.84					End Point	

PUNTOS SINGULARES Y CADA 10 METROS

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-04	Layout Profile	0+130.00	0+590.83	460.8348

  

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
1	0+000.00	502434.9194	4791654.0594		Infinity	
2	0+010.00	502444.8930	4791653.3338		Infinity	
3	0+020.00	502454.8666	4791652.6081		Infinity	
4	0+030.00	502464.8403	4791651.8824		Infinity	
5	0+040.00	502474.8139	4791651.1568		Infinity	
6	0+050.00	502484.7875	4791650.4311		Infinity	
7	0+060.00	502494.7612	4791649.7054		Infinity	
8	0+070.00	502504.7348	4791648.9798		Infinity	
9	0+080.00	502514.7085	4791648.2541		Infinity	
10	0+090.00	502524.6821	4791647.5285		Infinity	
11	0+100.00	502534.6557	4791646.8028		Infinity	
12	0+110.00	502544.6294	4791646.0771		Infinity	
13	0+120.00	502554.6030	4791645.3515		Infinity	
14	0+130.00	502564.5766	4791644.6258	11.094	Infinity	Start Point
15	0+130.00	502564.5766	4791644.6258	11.094	Infinity	
16	0+140.00	502574.5503	4791643.9001	10.994	Infinity	
17	0+150.00	502584.5239	4791643.1745	10.860	Infinity	
18	0+160.00	502594.4975	4791642.4488	10.650	Infinity	
19	0+170.00	502604.4284	4791641.3040	10.364	110.0000	
20	0+180.00	502614.2143	4791639.2629	10.005	110.0000	
21	0+190.00	502623.7746	4791636.3419	9.620	110.0000	
22	0+200.00	502633.0603	4791632.6347	9.226	Infinity	
23	0+210.00	502642.2874	4791628.7796	8.826	Infinity	
24	0+220.00	502651.5144	4791624.9245	8.426	Infinity	
25	0+230.00	502660.7415	4791621.0695	8.037	Infinity	
26	0+240.00	502669.9685	4791617.2144	7.668	Infinity	
27	0+250.00	502679.1634	4791613.2837	7.318	400.0000	
28	0+260.00	502688.3262	4791609.2788	6.988	-400.0000	
29	0+270.00	502697.5515	4791605.4197	6.672	Infinity	

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
30	0+280.00	502706.7786	4791601.5647	6.398	Infinity	
31	0+290.00	502716.0056	4791597.7096	6.175	Infinity	
32	0+300.00	502725.2327	4791593.8545	6.002	Infinity	
33	0+310.00	502734.4597	4791589.9995	5.878	Infinity	
34	0+320.00	502743.6868	4791586.1444	5.795	Infinity	
35	0+330.00	502752.9138	4791582.2893	5.715	Infinity	
36	0+340.00	502762.1409	4791578.4343	5.635	Infinity	
37	0+350.00	502771.3679	4791574.5792	5.555	Infinity	
38	0+360.00	502780.5951	4791570.7245	5.475	-85.0000	
39	0+370.00	502790.0373	4791567.4488	5.409	-85.0000	
40	0+380.00	502799.7987	4791565.3040	5.407	-85.0000	
41	0+390.00	502809.7444	4791564.3199	5.469	-85.0000	
42	0+400.00	502819.7368	4791564.5099	5.549	-85.0000	
43	0+410.00	502829.6378	4791565.8714	5.629	-85.0000	
44	0+420.00	502839.3106	4791568.3857	5.709	-85.0000	
45	0+430.00	502848.6586	4791571.9300	5.816	Infinity	
46	0+440.00	502857.9327	4791575.6705	6.047	Infinity	
47	0+450.00	502867.2068	4791579.4110	6.390	Infinity	
48	0+460.00	502876.4809	4791583.1514	6.689	Infinity	
49	0+470.00	502885.7550	4791586.8919	6.794	Infinity	
50	0+480.00	502895.0290	4791590.6324	6.699	Infinity	
51	0+490.00	502904.3031	4791594.3729	6.408	Infinity	
52	0+500.00	502913.5772	4791598.1134	6.052	Infinity	
53	0+510.00	502922.8513	4791601.8538	5.697	Infinity	
54	0+520.00	502932.1254	4791605.5943	5.341	Infinity	
55	0+530.00	502941.3995	4791609.3348	4.986	Infinity	
56	0+540.00	502950.6736	4791613.0753	4.630	Infinity	
57	0+550.00	502959.9477	4791616.8158	4.287	Infinity	
58	0+560.00	502969.2218	4791620.5563	4.138	Infinity	
59	0+570.00	502978.4959	4791624.2967	4.213	Infinity	
60	0+580.00	502987.7700	4791628.0372	4.606	Infinity	
61	0+590.00	502997.0441	4791631.7777	5.840	Infinity	
62	0+590.83	502997.8182	4791632.0899	5.967	Infinity	End Point
63	0+600.00	503006.3182	4791635.5182		Infinity	
64	0+610.00	503015.5923	4791639.2587		Infinity	
65	0+615.84	503021.0054	4791641.4419		Infinity	



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EJE 12

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ALINEACIONES EN PLANTA

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-12	Centreline Alignment	0+000.00	1+047.72	1047.7188

  

Point	Station	Easting	Northing	Elevation	Bearing	Alignment Radius	Entity	Alignment Point Code
1	0+000.00	502695.5272	4791606.1225		358° 53' 22.929"	Infinity	Line	Start Point
2	0+237.80	502690.9193	4791843.8815		358° 53' 22.929"	-13.5000	Curve	Tangent Point
3	0+253.96	502682.1091	4791856.2801		290° 18' 59.392"	Infinity	Line	Tangent Point
4	0+348.05	502593.8734	4791888.9483		290° 18' 59.392"	-14.0000	Curve	Tangent Point
5	0+373.80	502575.0642	4791877.0217		184° 55' 37.878"	Infinity	Line	Tangent Point
6	0+417.44	502571.3162	4791833.5450		184° 55' 37.878"	-1000.0000	Curve	Tangent Point
7	0+553.48	502568.8731	4791697.6266		177° 7' 56.531"	Infinity	Line	Tangent Point
8	0+581.53	502570.2760	4791669.6194		177° 7' 56.531"	-760.0000	Curve	Tangent Point
9	0+837.91	502625.6448	4791420.5260		157° 48' 12.853"	Infinity	Line	Tangent Point
10	0+876.45	502640.2023	4791384.8475		157° 48' 12.853"	-12.5000	Curve	Tangent Point
11	0+891.19	502651.7264	4791377.0699		90° 13' 37.917"	Infinity	Line	Tangent Point
12	1+010.12	502770.6559	4791376.5983		90° 13' 37.917"	-18.0000	Curve	Tangent Point
13	1+047.72	502786.4015	4791403.4480		330° 33' 1.671"	-18.0000	Curve	End Point

ALINEACIONES EN ALZADO

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-12	Layout Profile	0+007.41	1+022.46	1015.0530

  

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
1	0+000.00					Start Point	
2	0+007.41	6.665	-1.00 %	Infinity	Tangent		Start Point
3	0+136.03	5.379	-1.00 %	-5000.0189	Symmetric Parabolic		Tangent Point
4	0+146.03	5.289	-0.80 %	Infinity	Tangent		Tangent Point
5	0+201.45	4.845	-0.80 %	-2300.0000	Symmetric Parabolic		Tangent Point
6	0+219.85	4.772	0.00 %	-2300.0000	Symmetric Parabolic		Sag Point
7	0+237.80	4.842	0.78 %	-2300.0000	Symmetric Parabolic	Tangent Point	
8	0+238.25	4.845	0.80 %	Infinity	Tangent		Tangent Point
9	0+253.96	4.971	0.80 %	Infinity	Tangent	Tangent Point	
10	0+277.76	5.161	0.80 %	2500.0004	Symmetric Parabolic		Tangent Point
11	0+297.76	5.241	0.00 %	2500.0004	Symmetric Parabolic		Crest Point
12	0+325.26	5.090	-1.10 %	Infinity	Tangent		Tangent Point
13	0+348.05	4.839	-1.10 %	Infinity	Tangent	Tangent Point	
14	0+373.80	4.556	-1.10 %	Infinity	Tangent	Tangent Point	
15	0+417.44	4.076	-1.10 %	Infinity	Tangent	Tangent Point	
16	0+426.73	3.974	-1.10 %	-1799.9995	Symmetric Parabolic		Tangent Point
17	0+446.53	3.865	0.00 %	-1799.9995	Symmetric Parabolic		Sag Point
18	0+460.93	3.923	0.80 %	Infinity	Tangent	Tangent Point	
19	0+513.84	4.346	0.80 %	1999.9992	Symmetric Parabolic		Tangent Point
20	0+529.84	4.410	0.00 %	1999.9992	Symmetric Parabolic		Crest Point
21	0+553.48	4.270	-1.18 %	1999.9992	Symmetric Parabolic	Tangent Point	
22	0+553.84	4.266	-1.20 %	Infinity	Tangent	Tangent Point	
23	0+581.53	3.934	-1.20 %	Infinity	Tangent	Tangent Point	
24	0+590.60	3.825	-1.20 %	-1699.9999	Symmetric Parabolic		Tangent Point
25	0+611.00	3.702	0.00 %	-1699.9999	Symmetric Parabolic		Sag Point
26	0+631.40	3.825	1.20 %	Infinity	Tangent	Tangent Point	
27	0+661.11	4.181	1.20 %	1499.9997	Symmetric Parabolic		Tangent Point
28	0+679.11	4.289	0.00 %	1499.9997	Symmetric Parabolic		Crest Point
29	0+694.11	4.214	-1.00 %	Infinity	Tangent	Tangent Point	
30	0+711.62	4.039	-1.00 %	-1999.9986	Symmetric Parabolic		Tangent Point
31	0+731.62	3.939	0.00 %	-1999.9986	Symmetric Parabolic		Sag Point
32	0+747.62	4.003	0.80 %	Infinity	Tangent	Tangent Point	
33	0+790.77	4.348	0.80 %	1999.9987	Symmetric Parabolic		Tangent Point
34	0+806.77	4.412	0.00 %	1999.9987	Symmetric Parabolic		Crest Point
35	0+822.77	4.348	-0.80 %	Infinity	Tangent	Tangent Point	
36	0+837.91	4.227	-0.80 %	Infinity	Tangent	Tangent Point	
37	0+849.36	4.136	-0.80 %	-2000.0001	Symmetric Parabolic		Tangent Point
38	0+865.36	4.072	0.00 %	-2000.0001	Symmetric Parabolic		Sag Point
39	0+876.45	4.102	0.55 %	-2000.0001	Symmetric Parabolic	Tangent Point	
40	0+881.36	4.136	0.80 %	Infinity	Tangent	Tangent Point	
41	0+891.19	4.214	0.80 %	Infinity	Tangent	Tangent Point	
42	0+984.32	4.959	0.80 %	1500.0019	Symmetric Parabolic		Tangent Point
43	0+996.32	5.007	0.00 %	1500.0019	Symmetric Parabolic		Crest Point
44	1+010.12	4.944	-0.92 %	1500.0019	Symmetric Parabolic	Tangent Point	
45	1+011.32	4.932	-1.00 %	Infinity	Tangent	Tangent Point	
46	1+022.46	4.821	-1.00 %	Infinity	Tangent	Tangent Point	
47	1+047.72					End Point	

PUNTOS SINGULARES Y CADA 10 METROS

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-12	Layout Profile	0+007.41	1+022.46	1015.0530

  

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
1	0+000.00	502695.5272	4791606.1225		Infinity	
2	0+007.41	502695.3837	4791613.5271	6.665	Infinity	Start Point
3	0+010.00	502695.3335	4791616.1206	6.639	Infinity	
4	0+020.00	502695.1397	4791626.1187	6.539	Infinity	
5	0+030.00	502694.9459	4791636.1169	6.439	Infinity	
6	0+040.00	502694.7521	4791646.1150	6.339	Infinity	
7	0+050.00	502694.5584	4791656.1131	6.239	Infinity	
8	0+060.00	502694.3646	4791666.1112	6.139	Infinity	
9	0+070.00	502694.1708	4791676.1094	6.039	Infinity	
10	0+080.00	502693.9771	4791686.1075	5.939	Infinity	
11	0+090.00	502693.7833	4791696.1056	5.839	Infinity	
12	0+100.00	502693.5895	4791706.1037	5.739	Infinity	

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
13	0+110.00	502693.3957	4791716.1018	5.639	Infinity	
14	0+120.00	502693.2020	4791726.1000	5.539	Infinity	
15	0+130.00	502693.0082	4791736.0981	5.439	Infinity	
16	0+140.00	502692.8144	4791746.0962	5.341	Infinity	
17	0+150.00	502692.6207	4791756.0943	5.257	Infinity	
18	0+160.00	502692.4269	4791766.0925	5.177	Infinity	
19	0+170.00	502692.2331	4791776.0906	5.097	Infinity	
20	0+180.00	502692.0393	4791786.0887	5.017	Infinity	
21	0+190.00	502691.8456	4791796.0868	4.937	Infinity	
22	0+200.00	502691.6518	4791806.0849	4.857	Infinity	
23	0+210.00	502691.4580	4791816.0831	4.793	Infinity	
24	0+220.00	502691.2643	4791826.0812	4.772	Infinity	
25	0+230.00	502691.0705	4791836.0793	4.794	Infinity	
26	0+240.00	502690.8768	4791846.0643	4.859	-13.5000	
27	0+250.00	502685.5702	4791854.3835	4.939	-13.5000	
28	0+260.00	502676.4456	4791858.3769	5.019	Infinity	
29	0+270.00	502667.0677	4791861.8490	5.099	Infinity	
30	0+280.00	502657.6898	4791865.3210	5.178	Infinity	
31	0+290.00	502648.3120	4791868.7931	5.229	Infinity	
32	0+300.00	502638.9341	4791872.2651	5.240	Infinity	
33	0+310.00	502629.5562	4791875.7372	5.211	Infinity	
34	0+320.00	502620.1783	4791879.2092	5.142	Infinity	
35	0+330.00	502610.8004	4791882.6813	5.038	Infinity	
36	0+340.00	502601.4225	4791886.1534	4.928	Infinity	
37	0+350.00	502592.0034	4791889.4961	4.818	-14.0000	
38	0+360.00	502582.3130	4791888.1122	4.708	-14.0000	
39	0+370.00	502575.8978	4791880.7186	4.598	-14.0000	
40	0+380.00	502574.5319	4791870.8460	4.488	Infinity	
41	0+390.00	502573.6730	4791860.8830	4.378	Infinity	
42	0+400.00	502572.8141	4791850.9199	4.268	Infinity	
43	0+410.00	502571.9552	4791840.9569	4.158	Infinity	
44	0+420.00	502571.0995	4791830.9936	4.048	-1000.0000	
45	0+430.00	502570.3160	4791821.0243	3.941	-1000.0000	
46	0+440.00	502569.6322	4791811.0478	3.877	-1000.0000	
47	0+450.00	502569.0482	4791801.0649	3.868	-1000.0000	
48	0+460.00	502568.5640	4791791.0767	3.915	-1000.0000	
49	0+470.00	502568.1797	4791781.0841	3.995	-1000.0000	
50	0+480.00	502567.8954	4791771.0882	4.075	-1000.0000	
51	0+490.00	502567.7111	4791761.0899	4.155	-1000.0000	
52	0+500.00	502567.6267	4791751.0903	4.235	-1000.0000	
53	0+510.00	502567.6424	4791741.0904	4.315	-1000.0000	
54	0+520.00	502567.7580	4791731.0911	4.386	-1000.0000	
55	0+530.00	502567.9737	4791721.0934	4.410	-1000.0000	
56	0+540.00	502568.2893	4791711.0985	4.384	-1000.0000	
57	0+550.00	502568.7048	4791701.1072	4.308	-1000.0000	
58	0+560.00	502569.1990	4791691.1194	4.192	Infinity	
59	0+570.00	502569.6993	4791681.1319	4.072	Infinity	
60	0+580.00	502570.1996	4791671.1444	3.952	Infinity	
61	0+590.00	502570.7470	4791661.1595	3.832	-760.0000	
62	0+600.00	502571.4243	4791651.1825	3.738	-760.0000	
63	0+610.00	502572.2328	4791641.2153	3.703	-760.0000	
64	0+620.00	502573.1723	4791631.2596	3.726	-760.0000	
65	0+630.00	502574.2427	4791621.3172	3.809	-760.0000	
66	0+640.00	502575.4439	4791611.3896	3.928	-760.0000	
67	0+650.00	502576.7756	4791601.4788	4.048	-760.0000	
68	0+660.00	502578.2376	4791591.5863	4.168	-760.0000	
69	0+670.00	502579.8296	4791581.7139	4.262	-760.0000	
70	0+680.00	502581.5514	4791571.8633	4.289	-760.0000	
71	0+690.00	502583.4026	4791562.0362	4.250	-760.0000	
72	0+700.00	502585.3830	4791552.2344	4.155	-760.0000	
73	0+710.00	502587.4921	4791542.4594	4.055	-760.0000	
74	0+720.00	502589.7297	4791532.7130	3.973	-760.0000	
75	0+730.00	502592.0954	4791522.9969	3.940	-760.0000	
76	0+740.00	502594.5886	4791513.3128	3.957	-760.0000	
77	0+750.00	502597.2091	4791503.6624	4.022	-760.0000	
78	0+760.00	502599.9563	4791494.0472	4.102	-760.0000	
79	0+770.00	502602.8299	4791484.4690	4.182	-760.0000	
80	0+780.00	502605.8291	4791474.9295	4.		



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIAK OREZKARITZA

12/01/2018

VISADO BISATUA

EJE 13

COAVIN  
12/01/2018  
COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIA ORDEZKARITZA  
VISADO BISATUA



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIAK OREZKARITZA

12/01/2018

VISADO BISATUA

ALINEACIONES EN PLANTA

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-13	Centreline Alignment	0+000.00	0+037.38	37.3762

  

Point	Station	Easting	Northing	Elevation	Bearing	Alignment Radius	Entity	Alignment Point Code
1	0+000.00	502673.8711	4791597.0372		108° 0' 16.679"	21.0000	Curve	Start Point
2	0+022.63	502688.0440	4791580.8078		169° 44' 5.185"	Infinity	Line	Tangent Point
3	0+037.38	502690.6727	4791566.2930		169° 44' 5.195"	Infinity	Line	End Point

ALINEACIONES EN ALZADO

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-13	Layout Profile	-0.093	0+037.38	37.4691

  

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
1	0+000.00	6.975	-4.12 ‰	Infinity	Tangent	Start Point	
2	0+013.62	6.414	-4.12 ‰	-500.0006	Symmetric Parabolic		Tangent Point
3	0+022.63	6.124	-2.32 ‰	-500.0006	Symmetric Parabolic	Tangent Point	
4	0+024.53	6.084	-1.94 ‰	Infinity	Tangent		Tangent Point
5	0+037.38	5.835	-1.94 ‰	Infinity	Tangent		End Point
6	0+037.38					End Point	

PUNTOS SINGULARES Y CADA 10 METROS

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-13	Layout Profile	-0.093	0+037.38	37.4691

  

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
1	0+000.00	502673.8711	4791597.0372	6.975	21.0000	
2	0+010.00	502682.3039	4791591.8398	6.563	21.0000	
3	0+020.00	502687.4161	4791583.3551	6.192	21.0000	
4	0+030.00	502689.3582	4791573.5511	5.978	Infinity	
5	0+037.38	502690.6727	4791566.2932	5.835	Infinity	End Point
6	0+037.38	502690.6727	4791566.2930		Infinity	

COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
 EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
 DELEGACION EN BIZKAIA  
 BIZKAIAK OREZKARITZA  
**VISADO BISATUA**  
 12/01/2018



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIA ORDEZKARITZA

12/01/2018

VISADO BISATUA

EJE 14

12/01/2018  
COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIA ORDENANTZA  
VISADO BISATUA



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIA ORDEZKARITZA

12/01/2018

VISADO BISATUA



ALINEACIONES EN PLANTA

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-14	Centreline Alignment	-0+000.00	0+024.99	24.9890

  

Point	Station	Easting	Northing	Elevation	Bearing	Alignment Radius	Entity	Alignment Point Code
1	-0+000.00	502707.5522	4791577.2925		349° 42' 52.456"	-606.9999	Curve	Start Point
2	0+000.60	502707.4443	4791577.8852		349° 39' 27.731"	9.0000	Curve	Tangent Point
3	0+018.72	502718.6310	4791588.1934		105° 1' 22.953"	103.1500	Curve	Tangent Point
4	0+024.99	502724.6288	4791586.3867		108° 30' 10.724"	103.1500	Curve	End Point

ALINEACIONES EN ALZADO

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-14	Layout Profile	-0+000.00	24.990	24.9895

  

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
1	-0+000.00	6.004	2.18 %	Infinity	Tangent	Start Point	Start Point
2	0+000.35	6.012	2.18 %	399.9999	Symmetric Parabolic		Tangent Point
3	0+000.60	6.017	2.12 %	399.9999	Symmetric Parabolic	Tangent Point	
4	0+009.07	6.107	0.00 %	399.9999	Symmetric Parabolic		Crest Point
5	0+018.72	5.990	-2.41 %	399.9999	Symmetric Parabolic	Tangent Point	
6	0+019.99	5.957	-2.73 %	Infinity	Tangent		Tangent Point
7	0+024.99	5.821	-2.73 %	Infinity	Tangent	End Point	

PUNTOS SINGULARES Y CADA 10 METROS

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-14	Layout Profile	-0+000.00	24.990	24.9895

  

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
1	-0+000.00	502707.5522	4791577.2925	6.004	-606.9999	Start Point
2	0+000.00	502707.5522	4791577.2925	6.004	-606.9999	
3	0+010.00	502710.4512	4791586.3430	6.105	9.0000	
4	0+020.00	502719.8613	4791587.8550	5.957	103.1500	
5	0+024.99	502724.6288	4791586.3867	5.821	103.1500	

COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
 EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
 DELEGACION EN BIZKAIA  
 BIZKAIAK OREZKARITZA  
**VISADO BISATUA**  
 12/01/2018



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIAK OREZKARITZA

12/01/2018

VISADO BISATUA

EJE 15

12/01/2018  
COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIA ORDENANTZA  
VISADO BISATUA



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIAK OREZKARITZA

12/01/2018

VISADO BISATUA

ALINEACIONES EN PLANTA

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-15	Centreline Alignment	0+000.00	0+307.86	307.8562

  

Point	Station	Easting	Northing	Elevation	Bearing	Alignment Radius	Entity	Alignment Point Code
1	0+000.00	502434.3388	4791646.0805		94° 9' 41.052"	Infinity	Line	Start Point
2	0+149.62	502583.5638	4791635.2232		94° 9' 41.052"	110.0000	Curve	Tangent Point
3	0+185.16	502617.9872	4791627.0107		112° 40' 30.718"	Infinity	Line	Tangent Point
4	0+238.80	502667.4748	4791606.3348		112° 40' 30.718"	-110.0000	Curve	Tangent Point
5	0+273.33	502700.8872	4791598.2006		94° 41' 22.686"	110.0000	Curve	Tangent Point
6	0+307.86	502734.2995	4791590.0664		112° 40' 30.727"	110.0000	Curve	End Point

ALINEACIONES EN ALZADO

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-15	Layout Profile	0+130.00	307.935	177.9350

  

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
1	0+000.00					Start Point	
2	0+130.00	11.094	-1.00 %	Infinity	Tangent		Start Point
3	0+141.66	10.977	-1.00 %	1049.9987	Symmetric Parabolic		Tangent Point
4	0+149.62	10.868	-1.76 %	1049.9987	Symmetric Parabolic	Tangent Point	
5	0+173.75	10.166	-4.06 %	Infinity	Tangent		Tangent Point
6	0+185.16	9.703	-4.06 %	Infinity	Tangent	Tangent Point	
7	0+198.68	9.155	-4.06 %	-4999.7537	Symmetric Parabolic		Tangent Point
8	0+201.73	9.032	-4.00 %	Infinity	Tangent		Tangent Point
9	0+233.67	7.756	-4.00 %	1000.0027	Symmetric Parabolic		Tangent Point
10	0+238.80	7.538	-4.51 %	1000.0027	Symmetric Parabolic	Tangent Point	
11	0+241.37	7.419	-4.76 %	Infinity	Tangent		Tangent Point
12	0+245.83	7.207	-4.76 %	-300.0005	Symmetric Parabolic		Tangent Point
13	0+257.16	6.881	-0.99 %	Infinity	Tangent		Tangent Point
14	0+265.20	6.801	-0.99 %	-499.9972	Symmetric Parabolic		Tangent Point
15	0+267.45	6.784	-0.54 %	Infinity	Tangent		Tangent Point
16	0+268.83	6.777	-0.54 %	450.0001	Symmetric Parabolic		Tangent Point
17	0+273.33	6.730	-1.54 %	450.0001	Symmetric Parabolic	Tangent Point	
18	0+282.16	6.507	-3.50 %	Infinity	Tangent		Tangent Point
19	0+286.97	6.339	-3.50 %	-799.9993	Symmetric Parabolic		Tangent Point
20	0+306.72	5.892	-1.03 %	Infinity	Tangent		Tangent Point
21	0+307.86	5.880	-1.03 %	Infinity	Tangent	End Point	

PUNTOS SINGULARES Y CADA 10 METROS

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-15	Layout Profile	0+130.00	307.935	177.9350

  

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
1	0+000.00	502434.3388	4791646.0805		Infinity	
2	0+010.00	502444.3124	4791645.3548		Infinity	
3	0+020.00	502454.2861	4791644.6292		Infinity	
4	0+030.00	502464.2597	4791643.9035		Infinity	
5	0+040.00	502474.2333	4791643.1779		Infinity	
6	0+050.00	502484.2070	4791642.4522		Infinity	
7	0+060.00	502494.1806	4791641.7265		Infinity	
8	0+070.00	502504.1542	4791641.0009		Infinity	
9	0+080.00	502514.1279	4791640.2752		Infinity	
10	0+090.00	502524.1015	4791639.5495		Infinity	
11	0+100.00	502534.0752	4791638.8239		Infinity	
12	0+110.00	502544.0488	4791638.0982		Infinity	
13	0+120.00	502554.0224	4791637.3725		Infinity	
14	0+130.00	502563.9961	4791636.6469	11.094	Infinity	Start Point
15	0+140.00	502573.9697	4791635.9212	10.994	Infinity	
16	0+150.00	502583.9433	4791635.1949	10.861	110.0000	
17	0+160.00	502593.9169	4791634.4686	10.634	110.0000	
18	0+170.00	502603.8905	4791633.7423	10.312	110.0000	
19	0+180.00	502613.8641	4791633.0160	9.913	110.0000	
20	0+190.00	502622.8377	4791629.2897	9.507	Infinity	
21	0+200.00	502631.8113	4791625.5634	9.102	Infinity	
22	0+210.00	502640.7849	4791621.8371	8.702	Infinity	
23	0+220.00	502650.7585	4791618.1108	8.302	Infinity	
24	0+230.00	502659.7321	4791614.3845	7.903	Infinity	
25	0+240.00	502668.7057	4791610.6582	7.483	-110.0000	
26	0+250.00	502678.6793	4791606.9319	7.037	-110.0000	
27	0+260.00	502687.6529	4791603.2056	6.853	-110.0000	
28	0+270.00	502697.6265	4791599.4793	6.769	-110.0000	
29	0+280.00	502707.6001	4791595.7530	6.578	110.0000	
30	0+290.00	502717.5737	4791592.0267	6.239	110.0000	
31	0+300.00	502726.5473	4791588.3004	5.989	110.0000	
32	0+307.86	502734.5209	4791590.0664	5.880	110.0000	



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIA ORDEZKARITZA

12/01/2018

VISADO BISATUA

EJE 16

COAVIN  
12/01/2018  
COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
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ALINEACIONES EN PLANTA

Alignment/Profile Name	Type	Start Station	End Station	Length				
EJE-16	Centreline Alignment	0+000.00	2+049.63	2049.6269				
Point	Station	Easting	Northing	Elevation	Bearing	Alignment Radius	Entity	Alignment Point Code
1	0+000.00	502434.6291	4791650.0700		94° 9' 41.052"	Infinity	Line	Start Point
2	0+150.62	502584.8480	4791639.1403		94° 9' 41.052"	Infinity	Spiral	Tangent Point
3	0+162.62	502596.7947	4791638.0305		97° 35' 56.940"	100.0000	Curve	Tangent Point
4	0+182.93	502616.5189	4791633.3249		109° 14' 14.832"	100.0000	Spiral	Tangent Point
5	0+194.93	502627.6799	4791628.9219		112° 40' 30.720"	Infinity	Line	Tangent Point
6	0+239.35	502668.6721	4791611.7953		112° 40' 30.720"	Infinity	Spiral	Tangent Point
7	0+251.35	502679.4483	4791606.5514		122° 29' 50.402"	35.0000	Curve	Tangent Point
8	0+274.28	502693.5393	4791588.9863		160° 1' 41.538"	35.0000	Spiral	Tangent Point
9	0+286.28	502696.3213	4791577.3294		169° 51' 1.223"	Infinity	Spiral	Tangent Point
10	0+306.28	502700.1729	4791557.7060		166° 59' 7.982"	-200.0000	Curve	Tangent Point
11	0+353.65	502716.1810	4791513.2409		153° 24' 54.573"	-200.0000	Spiral	Tangent Point
12	0+373.65	502725.7215	4791495.6656		150° 33' 1.333"	Infinity	Line	Tangent Point
13	0+614.63	502844.2021	4791285.8216		150° 33' 1.333"	Infinity	Spiral	Tangent Point
14	0+634.63	502853.9771	4791268.3732		151° 7' 23.981"	1000.0000	Curve	Tangent Point
15	0+665.06	502868.2651	4791241.5070		152° 52' 0.709"	1000.0000	Spiral	Tangent Point
16	0+685.06	502877.2674	4791223.6477		153° 26' 23.357"	Infinity	Line	Tangent Point
17	0+937.50	502990.1394	4790997.8556		153° 26' 23.357"	Infinity	Spiral	Tangent Point
18	0+957.50	502999.1448	4790979.9979		152° 50' 12.149"	-950.0000	Curve	Tangent Point
19	1+180.44	503123.1635	4790795.3441		139° 23' 25.708"	-950.0000	Spiral	Tangent Point
20	1+200.44	503136.2877	4790780.2526		138° 47' 14.499"	Infinity	Line	Tangent Point
21	1+213.66	503144.9949	4790770.3108		138° 47' 14.499"	Infinity	Spiral	Tangent Point
22	1+233.66	503158.2141	4790755.3024		138° 18' 21.181"	-1190.0000	Curve	Tangent Point
23	1+483.66	503342.8189	4790587.3991		126° 16' 8.236"	-1190.0000	Spiral	Tangent Point
24	1+503.66	503359.0099	4790575.6581		125° 47' 14.919"	Infinity	Line	Tangent Point
25	1+574.52	503416.4962	4790534.2167		125° 47' 14.919"	Infinity	Spiral	Tangent Point
26	1+594.52	503432.7974	4790522.6298		124° 38' 29.623"	-500.0000	Curve	Tangent Point
27	1+621.13	503455.0789	4790508.0951		121° 35' 33.802"	-500.0000	Spiral	Tangent Point
28	1+641.13	503472.2714	4790497.8778		120° 7' 42.590"	-1800.0000	Curve	Tangent Point
29	1+694.03	503518.4109	4790471.9997		118° 26' 40.355"	-1800.0000	Spiral	Tangent Point
30	1+714.03	503536.1200	4790462.7075		116° 29' 21.159"	-350.0000	Curve	Tangent Point
31	1+728.39	503549.0952	4790456.5702		114° 8' 21.667"	-350.0000	Spiral	Tangent Point
32	1+748.39	503567.4981	4790448.7404		112° 30' 8.387"	Infinity	Line	Tangent Point
33	1+788.39	503604.4527	4790433.4316		112° 30' 8.387"	Infinity	Spiral	Tangent Point
34	1+803.39	503618.3576	4790427.8066		111° 4' 11.767"	-300.0000	Curve	Tangent Point
35	1+820.54	503634.5297	4790422.1013		107° 47' 39.423"	-300.0000	Spiral	Tangent Point
36	1+835.54	503648.8861	4790417.7561		106° 21' 42.803"	Infinity	Line	Tangent Point
37	1+883.63	503695.0300	4790404.2086		106° 21' 42.803"	Infinity	Spiral	Tangent Point
38	1+903.63	503714.2627	4790398.7236		105° 1' 45.947"	-430.0000	Curve	Tangent Point
39	2+049.63	503858.9364	4790385.2956		85° 34' 33.851"	-430.0000	Curve	End Point

ALINEACIONES EN ALZADO

Alignment/Profile Name	Type	Start Station	End Station	Length			
EJE-16	Layout Profile	0+139.16	1+904.17	1765.0018			
Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
1	0+000.00					Start Point	
2	0+139.16	11.040	-1.00 %	Infinity	Tangent		Start Point
3	0+141.02	11.021	-1.00 %	1200.0010	Symmetric Parabolic		Tangent Point
4	0+150.62	10.887	-1.80 %	1200.0010	Symmetric Parabolic	Tangent Point	
5	0+162.62	10.611	-2.80 %	1200.0010	Symmetric Parabolic	Tangent Point	
6	0+177.02	10.121	-4.00 %	Infinity	Tangent		Tangent Point
7	0+182.93	9.885	-4.00 %	Infinity	Tangent	Tangent Point	
8	0+194.93	9.405	-4.00 %	Infinity	Tangent	Tangent Point	
9	0+239.35	7.628	-4.00 %	Infinity	Tangent	Tangent Point	
10	0+240.98	7.563	-4.00 %	-2500.0006	Symmetric Parabolic		Tangent Point
11	0+251.35	7.170	-3.58 %	-2500.0006	Symmetric Parabolic	Tangent Point	
12	0+274.28	6.453	-2.67 %	-2500.0006	Symmetric Parabolic	Tangent Point	
13	0+286.28	6.162	-2.19 %	-2500.0006	Symmetric Parabolic	Tangent Point	
14	0+306.28	5.804	-1.39 %	-2500.0006	Symmetric Parabolic	Tangent Point	
15	0+320.98	5.643	-0.80 %	Infinity	Tangent		Tangent Point
16	0+353.65	5.382	-0.80 %	Infinity	Tangent	Tangent Point	
17	0+373.65	5.222	-0.80 %	Infinity	Tangent	Tangent Point	
18	0+442.65	4.670	-0.80 %	-2499.9999	Symmetric Parabolic		Tangent Point
19	0+462.65	4.590	0.00 %	-2499.9999	Symmetric Parabolic		Sag Point
20	0+482.65	4.670	0.80 %	Infinity	Tangent		Tangent Point
21	0+614.63	5.726	0.80 %	Infinity	Tangent	Tangent Point	
22	0+627.37	5.828	0.80 %	2499.9998	Symmetric Parabolic		Tangent Point
23	0+634.63	5.875	0.51 %	2499.9998	Symmetric Parabolic	Tangent Point	
24	0+647.37	5.908	0.00 %	2499.9998	Symmetric Parabolic		Crest Point
25	0+665.06	5.845	-0.71 %	2499.9998	Symmetric Parabolic	Tangent Point	
26	0+667.37	5.828	-0.80 %	Infinity	Tangent		Tangent Point
27	0+685.06	5.686	-0.80 %	Infinity	Tangent	Tangent Point	
28	0+840.20	4.445	-0.80 %	-2499.9997	Symmetric Parabolic		Tangent Point
29	0+860.20	4.365	0.00 %	-2499.9997	Symmetric Parabolic		Sag Point
30	0+880.20	4.445	0.80 %	Infinity	Tangent		Tangent Point
31	0+937.50	4.903	0.80 %	Infinity	Tangent	Tangent Point	
32	0+957.50	5.063	0.80 %	Infinity	Tangent	Tangent Point	
33	0+964.44	5.119	0.80 %	2500.0000	Symmetric Parabolic		Tangent Point
34	0+984.44	5.199	0.00 %	2500.0000	Symmetric Parabolic		Crest Point
35	1+004.44	5.119	-0.80 %	Infinity	Tangent		Tangent Point
36	1+063.68	4.645	-0.80 %	-2500.0000	Symmetric Parabolic		Tangent Point
37	1+083.68	4.565	0.00 %	-2500.0000	Symmetric Parabolic		Sag Point
38	1+103.68	4.645	0.80 %	Infinity	Tangent		Tangent Point
39	1+180.44	5.259	0.80 %	Infinity	Tangent	Tangent Point	
40	1+200.44	5.419	0.80 %	Infinity	Tangent	Tangent Point	
41	1+213.66	5.525	0.80 %	Infinity	Tangent	Tangent Point	

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
42	1+229.05	5.648	0.80 %	2499.9999	Symmetric Parabolic		Tangent Point
43	1+233.66	5.681	0.62 %	2499.9999	Symmetric Parabolic	Tangent Point	
44	1+249.05	5.728	0.00 %	2499.9999	Symmetric Parabolic		Crest Point
45	1+269.05	5.648	-0.80 %	Infinity	Tangent		Tangent Point
46	1+361.21	4.911	-0.80 %	-2500.0000	Symmetric Parabolic		Tangent Point
47	1+381.21	4.831	0.00 %	-2500.0000	Symmetric Parabolic		Sag Point
48	1+401.21	4.911	0.80 %	Infinity	Tangent		Tangent Point
49	1+483.66	5.570	0.80 %	Infinity	Tangent	Tangent Point	
50	1+503.66	5.730	0.80 %	Infinity	Tangent	Tangent Point	
51	1+571.03	6.269	0.80 %	2500.0002	Symmetric Parabolic		Tangent Point
52	1+574.52	6.295	0.66 %	2500.0002	Symmetric Parabolic	Tangent Point	
53	1+591.03	6.349	0.00 %	2500.0002	Symmetric Parabolic		Crest Point
54	1+594.52	6.347	-0.14 %	2500.0002	Symmetric Parabolic	Tangent Point	
55	1+611.03	6.269	-0.80 %	Infinity	Tangent		Tangent Point
56	1+621.13	6.189	-0.80 %	Infinity	Tangent	Tangent Point	
57	1+641.13	6.029	-0.80 %	Infinity	Tangent	Tangent Point	
58	1+694.03	5.605	-0.80 %	Infinity	Tangent	Tangent Point	
59	1+714.03	5.445	-0.80 %	Infinity	Tangent	Tangent Point	
60	1+728.39	5.330	-0.80 %	Infinity	Tangent	Tangent Point	
61	1+748.39	5.170	-0.80 %	Infinity	Tangent	Tangent Point	
62	1+778.27	4.931	-0.80 %	-2500.0005	Symmetric Parabolic		Tangent Point
63	1+788.39	4.871	-0.40 %	-2500.0005	Symmetric Parabolic	Tangent Point	
64	1+798.27	4.851	0.00 %	-2500.0005	Symmetric Parabolic		Sag Point
65	1+803.39	4.857	0.20 %	-2500.0005	Symmetric Parabolic	Tangent Point	
66	1+818.27	4.931	0.80 %	Infinity	Tangent		Tangent Point
67	1+820.54	4.949	0.80 %	Infinity	Tangent	Tangent Point	
68	1+835.54	5.069	0.80 %	Infinity	Tangent	Tangent Point	
69	1+883.63	5.454	0.80 %	Infinity	Tangent	Tangent Point	
70	1+903.63	5.614	0.80 %	Infinity	Tangent	Tangent Point	
71	1+904.17	5.618	0.80 %	Infinity	Tangent		End Point
72	2+049.63						

PUNTOS SINGULARES Y CADA 10 METROS

Alignment/Profile Name	Type	Start Station	End Station	Length		
EJE-16	Layout Profile	0+139.16	1+904.17	1765.0018		
Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
1	0+000.00	502434.6291	4791650.0700		Infinity	
2	0+010.00	502444.6027	4791649.3443		Infinity	
3	0+020.00	502454.5764	4791648.6186		Infinity	
4	0+030.00	502464.5500	4791647.8930		Infinity	
5	0+040.00	502474.5236	4791647.1673		Infinity	
6	0+050.00	502484.4973	4791646.4417		Infinity	
7	0+060.00	502494.4709	4791645.7160		Infinity	
8	0+070.00	502504.4446	4791644.9903		Infinity	
9	0+080.00	502514.4182	4791644.2647		Infinity	
10	0+090.00	502524.3918	4791643.5390		Infinity	
11	0+100.00	502534.3655	4791642.8133		Infinity	

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
56	0+540.00	502807.5085	4791350.8106	5.129	Infinity	
57	0+550.00	502812.4251	4791342.1028	5.209	Infinity	
58	0+560.00	502817.3416	4791333.3949	5.289	Infinity	
59	0+570.00	502822.2582	4791324.6870	5.369	Infinity	
60	0+580.00	502827.1748	4791315.9791	5.449	Infinity	
61	0+590.00	502832.0914	4791307.2712	5.529	Infinity	
62	0+600.00	502837.0080	4791298.5633	5.609	Infinity	
63	0+610.00	502841.9246	4791289.8555	5.689	Infinity	
64	0+620.00	502846.8400	4791281.1469	5.769	3726.0844	
65	0+630.00	502851.7314	4791272.4249	5.847	1301.4424	
66	0+640.00	502856.5567	4791263.6661	5.897	1000.0000	
67	0+650.00	502861.2949	4791254.8599	5.906	1000.0000	
68	0+660.00	502865.9448	4791246.0068	5.876	1000.0000	
69	0+670.00	502870.5068	4791237.1081	5.807	1327.7681	
70	0+680.00	502875.0026	4791228.1758	5.727	3950.3279	
71	0+690.00	502879.4750	4791219.2316	5.647	Infinity	
72	0+700.00	502883.9464	4791210.2869	5.567	Infinity	
73	0+710.00	502888.4177	4791201.3423	5.487	Infinity	
74	0+720.00	502892.8891	4791192.3976	5.407	Infinity	
75	0+730.00	502897.3605	4791183.4530	5.327	Infinity	
76	0+740.00	502901.8319	4791174.5083	5.247	Infinity	
77	0+750.00	502906.3032	4791165.5637	5.167	Infinity	
78	0+760.00	502910.7746	4791156.6190	5.087	Infinity	
79	0+770.00	502915.2460	4791147.6744	5.007	Infinity	
80	0+780.00	502919.7174	4791138.7297	4.927	Infinity	
81	0+790.00	502924.1887	4791129.7851	4.847	Infinity	
82	0+800.00	502928.6601	4791120.8404	4.767	Infinity	
83	0+810.00	502933.1315	4791111.8958	4.687	Infinity	
84	0+820.00	502937.6029	4791102.9511	4.607	Infinity	
85	0+830.00	502942.0742	4791094.0065	4.527	Infinity	
86	0+840.00	502946.5456	4791085.0618	4.447	Infinity	
87	0+850.00	502951.0170	4791076.1172	4.366	Infinity	
88	0+860.00	502955.4884	4791067.1725	4.286	Infinity	
89	0+870.00	502959.9597	4791058.2279	4.206	Infinity	
90	0+880.00	502964.4311	4791049.2832	4.126	Infinity	
91	0+890.00	502968.9025	4791040.3385	4.046	Infinity	
92	0+900.00	502973.3739	4791031.3939	3.966	Infinity	
93	0+910.00	502977.8452	4791022.4492	3.886	Infinity	
94	0+920.00	502982.3166	4791013.5046	3.806	Infinity	
95	0+930.00	502986.7880	4791004.5599	3.726	Infinity	
96	0+940.00	502991.2595	4790995.6153	3.646	-7585.7748	
97	0+950.00	502995.7461	4790986.6783	3.566	-1519.4301	
98	0+960.00	503000.2212	4790977.7710	3.486	-950.0000	
99	0+970.00	503004.6966	4790968.8103	3.406	-950.0000	
100	0+980.00	503009.1720	4790960.0988	3.326	-950.0000	
101	0+990.00	503013.6474	4790951.3377	3.246	-950.0000	
102	1+000.00	503018.1228	4790942.6278	3.166	-950.0000	
103	1+010.00	503022.5982	4790933.9179	3.086	-950.0000	
104	1+020.00	503027.0736	4790925.2080	3.006	-950.0000	
105	1+030.00	503031.5490	4790916.4981	2.926	-950.0000	
106	1+040.00	503036.0244	4790907.7882	2.846	-950.0000	
107	1+050.00	503040.5000	4790899.0783	2.766	-950.0000	
108	1+060.00	503044.9754	4790890.3684	2.686	-950.0000	
109	1+070.00	503049.4508	4790881.6585	2.606	-950.0000	
110	1+080.00	503053.9262	4790872.9486	2.526	-950.0000	
111	1+090.00	503058.4016	4790864.2387	2.446	-950.0000	
112	1+100.00	503062.8770	4790855.5288	2.366	-950.0000	
113	1+110.00	503067.3524	4790846.8189	2.286	-950.0000	
114	1+120.00	503071.8278	4790838.1090	2.206	-950.0000	
115	1+130.00	503076.3032	4790829.3991	2.126	-950.0000	
116	1+140.00	503080.7786	4790820.6892	2.046	-950.0000	
117	1+150.00	503085.2540	4790811.9793	1.966	-950.0000	
118	1+160.00	503089.7294	4790803.2694	1.886	-950.0000	
119	1+170.00	503094.2048	4790794.5595	1.806	-950.0000	
120	1+180.00	503098.6802	4790785.8496	1.726	-950.0000	
121	1+190.00	503103.1556	4790777.1397	1.646	-950.0000	
122	1+200.00	503107.6310	4790768.4298	1.566	-950.0000	
123	1+210.00	503112.1064	4790759.7199	1.486	-950.0000	
124	1+220.00	503116.5818	4790751.0100	1.406	-950.0000	
125	1+230.00	503121.0572	4790742.3001	1.326	-950.0000	
126	1+240.00	503125.5326	4790733.5902	1.246	-950.0000	
127	1+250.00	503129.9980	4790724.8803	1.166	-950.0000	
128	1+260.00	503134.4734	4790716.1704	1.086	-950.0000	
129	1+270.00	503138.9488	4790707.4605	1.006	-950.0000	
130	1+280.00	503143.4242	4790698.7506	0.926	-950.0000	
131	1+290.00	503147.8996	4790690.0407	0.846	-950.0000	
132	1+300.00	503152.3750	4790681.3308	0.766	-950.0000	
133	1+310.00	503156.8504	4790672.6209	0.686	-950.0000	
134	1+320.00	503161.3258	4790663.9110	0.606	-950.0000	
135	1+330.00	503165.8012	4790655.2011	0.526	-950.0000	
136	1+340.00	503170.2766	4790646.4912	0.446	-950.0000	
137	1+350.00	503174.7520	4790637.7813	0.366	-950.0000	
138	1+360.00	503179.2274	4790629.0714	0.286	-950.0000	
139	1+370.00	503183.7028	4790620.3615	0.206	-950.0000	
140	1+380.00	503188.1782	4790611.6516	0.126	-950.0000	
141	1+390.00	503192.6536	4790602.9417	0.046	-950.0000	
142	1+400.00	503197.1290	4790594.2318	0.000	-950.0000	
143	1+410.00	503201.6044	4790585.5219	0.000	-950.0000	
144	1+420.00	503206.0798	4790576.8120	0.000	-950.0000	
145	1+430.00	503210.5552	4790568.1021	0.000	-950.0000	
146	1+440.00	503215.0306	4790559.3922	0.000	-950.0000	
147	1+450.00	503219.5060	4790550.6823	0.000	-950.0000	
148	1+460.00	503223.9814	4790541.9724	0.000	-950.0000	
149	1+470.00	503228.4568	4790533.2625	0.000	-950.0000	
150	1+480.00	503232.9322	4790524.5526	0.000	-950.0000	
151	1+490.00	503237.4076	4790515.8427	0.000	-950.0000	

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
152	1+500.00	503241.8830	4790507.1328	5.701	-6506.1119	
153	1+510.00	503246.3584	4790498.4229	5.781	Infinity	
154	1+520.00	503250.8338	4790489.7130	5.861	Infinity	
155	1+530.00	503255.3092	4790481.0031	5.941	Infinity	
156	1+540.00	503259.7846	4790472.2932	6.021	Infinity	
157	1+550.00	503264.2600	4790463.5833	6.101	Infinity	
158	1+560.00	503268.7354	4790454.8734	6.181	Infinity	
159	1+570.00	503273.2108	4790446.1635	6.261	Infinity	
160	1+580.00	503277.6862	4790437.4536	6.325	-1826.3677	
161	1+590.00	503282.1616	4790428.7437	6.349	-646.1890	
162	1+600.00	503286.6370	4790420.0338	6.333	-500.0000	
163	1+610.00	503291.1124	4790411.3239	6.277	-500.0000	
164	1+620.00	503295.5878	4790402.6140	6.198	-500.0000	
165	1+630.00	503300.0632	4790393.9041	6.118	-735.5937	
166	1+640.00	503304.5386	4790385.1942	6.038	-1569.3073	
167	1+650.00	503309.0140	4790376.4843	5.958	-1800.0000	
168	1+660.00	503313.4894	4790367.7744	5.878	-1800.0000	
169	1+670.00	503317.9648	4790359.0645	5.798	-1800.0000	
170	1+680.00	503322.4402	4790350.3546	5.718	-1800.0000	
171	1+690.00	503326.9156	4790341.6447	5.638	-1800.0000	
172	1+700.00	503331.3910	4790332.9348	5.558	-805.0588	
173	1+710.00	503335.8664	4790324.2249	5.478	-417.8962	
174	1+720.00	503340.3418	4790315.5150	5.398	-350.0000	
175	1+730.00	503344.8172	4790306.8051	5.318	-380.6780	
176	1+740.00	503349.2926	4790298.0952	5.238	-834.5013	
177	1+750.00	503353.7680	4790289.3853	5.158	Infinity	
178	1+760.00	503358.2434	4790280.6754	5.078	Infinity	
179	1+770.00	503362.7188	4790271.9655	4.998	Infinity	
180	1+780.00	503367.1942	4790263.2556	4.918	Infinity	
181	1+790.00	503371.6696	4790254.5457	4.865	-2791.9827	
182	1+800.00	503376.1450	4790245.8358	4.852	-387.5382	
183	1+810.00	503380.6204	4790237.1259	4.879	-300.0000	
184	1+820.00	503385.0958	4790228.4160	4.945	-300.0000	
185	1+830.00	503389.5712	4790219.7061	5.025	-812.3461	
186	1+840.00	503394.0466	4790211.0000	5.105	Infinity	
187	1+850.00	503398.5220	4790202.2900	5.185	Infinity	
188	1+860.00	503402.9974	4790193.5801	5.265	Infinity	
189	1+870.00	503407.4728	4790184.8702	5.345	Infinity	
190	1+880.00	503411.9482	4790176.1603	5.425	Infinity	
191	1+890.00	503416.4236	4790167.4504	5.505	-1350.3039	
192	1+900.00	503420.8990	4790158.7405	5.585	-525.3854	
193	1+904.17	503714.7801	4790398.5850	5.618	-430.0000	End Point
194	1+910.00	503720.4257	4790397.1176		-430.0000	
195	1+920.00	503730.1486	4790394.7807		-430.0000	
196	1+930.00	503739.9232	4790392.6706		-430.0000	
197	1+940.00	503749.7442	4790390.7883		-430.0000	
198	1+950.00	503759.6064	4790389.1349		-430.0000	
199	1+960.00	503769.5043	4790387.7113		-430.0000	
200	1+970.00	503779.4326	4790386.5182		-430.0000</	

EJE 17

12/01/2018  
COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIA ORDENANTZA  
VISADO BISATUA



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIAK OREZKARITZA

12/01/2018

VISADO BISATUA

ALINEACIONES EN PLANTA

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-17	Centreline Alignment	-0+000.00	1+620.56	1620.5606

  

Point	Station	Easting	Northing	Elevation	Bearing	Alignment Radius	Entity	Alignment Point Code
1	-0+000.00	502695.3084	4791617.4150		178° 53' 22.930"	-175.0000	Curve	Start Point
2	0+031.13	502698.6696	4791586.5072		168° 41' 50.093"	600.0000	Curve	Tangent Point
3	0+047.68	502701.6882	4791570.2406		170° 16' 37.789"	-200.0000	Curve	Tangent Point
4	0+116.54	502724.6576	4791505.6857		150° 33' 1.677"	Infinity	Line	Tangent Point
5	0+371.70	502850.1136	4791283.4865		150° 33' 1.677"	-275.0000	Curve	Tangent Point
6	0+394.59	502862.1788	4791264.0524		145° 46' 59.441"	175.0000	Curve	Tangent Point
7	0+416.42	502873.2987	4791245.2820		152° 55' 50.855"	2000.0000	Curve	Tangent Point
8	0+434.42	502881.4177	4791229.2169		153° 26' 47.251"	Infinity	Line	Tangent Point
9	0+458.48	502892.1743	4791207.6931		153° 26' 47.261"	200.0000	Curve	Tangent Point
10	0+479.44	502900.5460	4791188.4860		159° 27' 5.745"	-200.0000	Curve	Tangent Point
11	0+500.43	502908.9283	4791169.2580		153° 26' 23.082"	Infinity	Line	Tangent Point
12	0+684.35	502991.1687	4791004.7427		153° 26' 23.082"	-150.0000	Curve	Tangent Point
13	0+705.66	503002.0149	4790986.4244		145° 18' 4.693"	200.0000	Curve	Tangent Point
14	0+728.13	503013.7441	4790967.2688		151° 44' 21.776"	-946.0000	Curve	Tangent Point
15	0+758.13	503028.3652	4790941.0744		149° 55' 20.600"	200.0000	Curve	Tangent Point
16	0+777.96	503037.4342	4790923.4569		155° 36' 4.384"	-200.0000	Curve	Tangent Point
17	0+808.42	503052.0806	4790896.7743		146° 52' 22.444"	-946.0000	Curve	Tangent Point
18	0+897.10	503103.9499	4790824.8888		141° 30' 7.289"	-150.0000	Curve	Tangent Point
19	0+916.36	503116.8739	4790810.6240		134° 8' 40.176"	-250.0000	Curve	Tangent Point
20	0+937.20	503131.2029	4790795.5075		138° 55' 9.892"	-9999.9999	Curve	Tangent Point
21	0+979.14	503158.8330	4790763.9468		138° 40' 44.683"	250.0000	Curve	Tangent Point
22	1+000.01	503171.9436	4790747.7156		143° 27' 44.352"	-180.0000	Curve	Tangent Point
23	1+021.76	503185.9104	4790731.0695		136° 32' 29.167"	-1186.0000	Curve	Tangent Point
24	1+221.76	503335.0370	4790598.1539		126° 52' 45.895"	-400.0000	Curve	Tangent Point
25	1+262.95	503369.1985	4790575.1728		120° 58' 45.658"	600.0000	Curve	Tangent Point
26	1+326.09	503421.5266	4790539.8847		127° 0' 32.944"	-500.0000	Curve	Tangent Point
27	1+384.17	503469.8321	4790507.6918		120° 21' 12.093"	-1792.7500	Curve	Tangent Point
28	1+453.49	503530.3110	4790473.8280		118° 8' 16.663"	-125.0000	Curve	Tangent Point
29	1+474.82	503549.8823	4790465.4194		108° 21' 44.502"	300.0000	Curve	Tangent Point
30	1+496.50	503570.1909	4790457.8537		112° 30' 8.391"	Infinity	Line	Tangent Point
31	1+555.20	503624.4253	4790435.3865		112° 30' 8.391"	Infinity	Spiral	Tangent Point
32	1+571.20	503639.7049	4790430.8906		94° 10' 3.651"	-25.0000	Curve	Tangent Point
33	1+593.84	503660.0162	4790439.0032		42° 17' 14.778"	-25.0000	Spiral	Tangent Point
34	1+609.84	503667.9941	4790452.7885		23° 57' 10.038"	Infinity	Line	Tangent Point
35	1+620.56	503672.3478	4790462.5888		23° 57' 10.038"	Infinity	Line	End Point

ALINEACIONES EN ALZADO

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-17	Layout Profile	0+022.36	1621.520	1599.1606

  

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
1	-0+000.00					Start Point	
2	0+022.36	6.684	-2.60 ‰	Infinity	Tangent		Start Point
3	0+031.13	6.456	-2.60 ‰	Infinity	Tangent	Tangent Point	
4	0+047.68	6.026	-2.60 ‰	Infinity	Tangent	Tangent Point	
5	0+052.19	5.909	-2.60 ‰	-800.0007	Symmetric Parabolic		Tangent Point
6	0+066.56	5.664	-0.80 ‰	Infinity	Tangent	Tangent Point	
7	0+116.54	5.262	-0.80 ‰	Infinity	Tangent	Tangent Point	
8	0+194.78	4.634	-0.80 ‰	-2499.9998	Symmetric Parabolic	Tangent Point	
9	0+214.88	4.553	0.00 ‰	-2499.9998	Symmetric Parabolic	Sag Point	
10	0+234.88	4.633	0.80 ‰	Infinity	Tangent	Tangent Point	
11	0+368.17	5.699	0.80 ‰	3000.0015	Symmetric Parabolic	Tangent Point	
12	0+371.70	5.725	0.68 ‰	3000.0015	Symmetric Parabolic	Tangent Point	
13	0+392.17	5.795	0.00 ‰	3000.0015	Symmetric Parabolic		Crest Point
14	0+394.59	5.794	-0.08 ‰	3000.0015	Symmetric Parabolic	Tangent Point	
15	0+411.70	5.732	-0.65 ‰	Infinity	Tangent	Tangent Point	
16	0+416.42	5.701	-0.65 ‰	Infinity	Tangent	Tangent Point	
17	0+434.42	5.584	-0.65 ‰	Infinity	Tangent	Tangent Point	
18	0+458.48	5.427	-0.65 ‰	Infinity	Tangent	Tangent Point	
19	0+479.44	5.291	-0.65 ‰	Infinity	Tangent	Tangent Point	
20	0+486.91	5.242	-0.65 ‰	11999.8883	Symmetric Parabolic	Tangent Point	
21	0+500.43	5.147	-0.76 ‰	11999.8883	Symmetric Parabolic	Tangent Point	
22	0+505.04	5.110	-0.80 ‰	Infinity	Tangent	Tangent Point	
23	0+592.68	4.408	-0.80 ‰	-2499.9974	Symmetric Parabolic	Tangent Point	
24	0+612.72	4.327	0.00 ‰	-2499.9974	Symmetric Parabolic	Sag Point	
25	0+632.72	4.407	0.80 ‰	Infinity	Tangent	Tangent Point	
26	0+684.35	4.820	0.80 ‰	Infinity	Tangent	Tangent Point	
27	0+684.60	4.822	0.80 ‰	4999.9772	Symmetric Parabolic	Tangent Point	
28	0+696.89	4.906	0.55 ‰	Infinity	Tangent	Tangent Point	
29	0+705.66	4.954	0.55 ‰	Infinity	Tangent	Tangent Point	
30	0+725.75	5.065	0.55 ‰	2000.0004	Symmetric Parabolic	Tangent Point	
31	0+728.13	5.077	0.43 ‰	2000.0004	Symmetric Parabolic	Tangent Point	
32	0+736.83	5.096	0.00 ‰	2000.0004	Symmetric Parabolic		Crest Point
33	0+749.58	5.056	-0.64 ‰	Infinity	Tangent	Tangent Point	
34	0+758.13	5.001	-0.64 ‰	Infinity	Tangent	Tangent Point	
35	0+777.96	4.875	-0.64 ‰	Infinity	Tangent	Tangent Point	
36	0+791.64	4.787	-0.64 ‰	9999.9949	Symmetric Parabolic	Tangent Point	
37	0+808.03	4.670	-0.80 ‰	Infinity	Tangent	Tangent Point	
38	0+808.42	4.666	-0.80 ‰	Infinity	Tangent	Tangent Point	
39	0+815.65	4.609	-0.80 ‰	-2500.0000	Symmetric Parabolic	Tangent Point	
40	0+835.68	4.528	0.00 ‰	-2500.0000	Symmetric Parabolic	Sag Point	
41	0+855.77	4.609	0.80 ‰	Infinity	Tangent	Tangent Point	
42	0+892.14	4.901	0.80 ‰	9999.9571	Symmetric Parabolic	Tangent Point	
43	0+897.10	4.940	0.75 ‰	9999.9571	Symmetric Parabolic	Tangent Point	
44	0+909.62	5.026	0.63 ‰	Infinity	Tangent	Tangent Point	
45	0+916.36	5.069	0.63 ‰	Infinity	Tangent	Tangent Point	

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
46	0+924.01	5.117	0.63 ‰	-9999.9058	Symmetric Parabolic		Tangent Point
47	0+937.20	5.209	0.76 ‰	-9999.9058	Symmetric Parabolic	Tangent Point	
48	0+941.22	5.240	0.80 ‰	Infinity	Tangent		Tangent Point
49	0+979.14	5.544	0.80 ‰	Infinity	Tangent	Tangent Point	
50	0+985.59	5.595	0.80 ‰	2299.9983	Symmetric Parabolic		Tangent Point
51	1+000.01	5.666	0.17 ‰	2299.9983	Symmetric Parabolic	Tangent Point	
52	1+004.01	5.669	0.00 ‰	2299.9983	Symmetric Parabolic		Crest Point
53	1+021.76	5.601	-0.77 ‰	2299.9983	Symmetric Parabolic	Tangent Point	
54	1+022.47	5.595	-0.80 ‰	Infinity	Tangent		Tangent Point
55	1+112.96	4.869	-0.80 ‰	-2399.9986	Symmetric Parabolic	Tangent Point	
56	1+132.23	4.791	0.00 ‰	-2399.9986	Symmetric Parabolic		Sag Point
57	1+151.44	4.868	0.80 ‰	Infinity	Tangent		Tangent Point
58	1+221.76	5.431	0.80 ‰	Infinity	Tangent	Tangent Point	
59	1+231.69	5.510	0.80 ‰	9999.9718	Symmetric Parabolic		Tangent Point
60	1+247.87	5.627	0.64 ‰	Infinity	Tangent		Tangent Point
61	1+262.95	5.723	0.64 ‰	Infinity	Tangent	Tangent Point	
62	1+288.32	5.885	0.64 ‰	-10000.0960	Symmetric Parabolic		Tangent Point
63	1+304.45	6.001	0.80 ‰	Infinity	Tangent		Tangent Point
64	1+323.18	6.151	0.80 ‰	2380.0030	Symmetric Parabolic		Tangent Point
65	1+326.09	6.173	0.68 ‰	2380.0030	Symmetric Parabolic	Tangent Point	
66	1+342.22	6.227	0.00 ‰	2380.0030	Symmetric Parabolic		Crest Point
67	1+361.36	6.150	-0.80 ‰	Infinity	Tangent		Tangent Point
68	1+384.17	5.967	-0.80 ‰	Infinity	Tangent	Tangent Point	
69	1+450.70	5.432	-0.80 ‰	9499.9573	Symmetric Parabolic		Tangent Point
70	1+453.49	5.409	-0.83 ‰	9499.9573	Symmetric Parabolic	Tangent Point	
71	1+472.06	5.236	-1.03 ‰	Infinity	Tangent		Tangent Point
72	1+474.82	5.207	-1.03 ‰	Infinity	Tangent	Tangent Point	
73	1+476.64	5.189	-1.03 ‰	-9499.9758	Symmetric Parabolic		Tangent Point
74	1+496.50	5.005	-0.82 ‰	-9499.9758	Symmetric Parabolic	Tangent Point	
75	1+498.34	4.990	-0.80 ‰	Infinity	Tangent		Tangent Point
76	1+529.90	4.737	-0.80 ‰	-1200.0004	Symmetric Parabolic		Tangent Point
77	1+539.51	4.699	0.00 ‰	-1200.0004	Symmetric Parabolic		Sag Point
78	1+553.92	4.785	1.20 ‰	Infinity	Tangent		Tangent Point
79	1+555.20	4.801	1.20 ‰	Infinity	Tangent	Tangent Point	
80	1+571.20	4.993	1.20 ‰	Infinity	Tangent	Tangent Point	
81	1+593.84	5.265	1.20 ‰	Infinity	Tangent	Tangent Point	
82	1+609.84	5.457	1.20 ‰	Infinity	Tangent	Tangent Point	
83	1+620.56	5.585	1.20 ‰	Infinity	Tangent	End Point	

PUNTOS SINGULARES Y CADA 10 METROS

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-17	Layout Profile	0+022.36	1621.520	1599.1606

  

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
1	-0+000.00	502695.3084	4791617.4150		-175.0000	
2	0+000.00	502695.3084	4791617.4150		-175.0000	
3	0+010.00	502695.7876	4791607.4278		-175.0000	
4	0+020.00	502696.8365	4791597.4844		-175.0000	
5	0+022.36	502697.1667	4791595.1482	6.684	-175.0000	Start Point
6	0+030.00	502698.4515	4791587.6170	6.485	-175.0000	
7	0+040.00	502700.3435	4791577.7977	6.225	600.0000	
8	0+050.00	502702.0940	4791567.9522	5.965	-200.0000	
9	0+060.00	502704.1423	4791558.1653	5.744	-200.0000	
10	0+070.00	502706.6772	4791548.4930	5.636	-200.0000	
11	0+080.00	502709.6924	4791538.9595	5.556	-200.0000	
12	0+090.00	502713.1803	4791529.5886	5.476	-200.0000	
13	0+100.00	502717.1322	4791520.4037	5.395	-200.0000	
14	0+110.00	502721.5381	4791511.4278	5.315	-200.0000	
15	0+120.00	502726.3612	4791502.6685	5.235	Infinity	
16	0+130.00	502731.2777	4791493.9606	5.154	Infinity	
17	0+140.00	502736.1943	4791485.2527	5.074	Infinity	
18	0+150.00	502				

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
49	0+460.00	502892.8487	4791206.3305	5.417	200.0000	
50	0+470.00	502897.0247	4791197.2453	5.352	200.0000	
51	0+480.00	502900.7428	4791187.9633	5.287	-200.0000	
52	0+490.00	502904.5113	4791178.7017	5.222	-200.0000	
53	0+500.00	502908.7379	4791169.6399	5.150	-200.0000	
54	0+510.00	502913.2089	4791160.6951	5.071	Infinity	
55	0+520.00	502917.6803	4791151.7505	4.991	Infinity	
56	0+530.00	502922.1516	4791142.8058	4.910	Infinity	
57	0+540.00	502926.6230	4791133.8612	4.830	Infinity	
58	0+550.00	502931.0944	4791124.9165	4.750	Infinity	
59	0+560.00	502935.5658	4791115.9719	4.670	Infinity	
60	0+570.00	502940.0372	4791107.0272	4.590	Infinity	
61	0+580.00	502944.5086	4791098.0826	4.509	Infinity	
62	0+590.00	502948.9800	4791089.1379	4.429	Infinity	
63	0+600.00	502953.4514	4791080.1933	4.360	Infinity	
64	0+610.00	502957.9227	4791071.2486	4.329	Infinity	
65	0+620.00	502962.3941	4791062.3040	4.338	Infinity	
66	0+630.00	502966.8655	4791053.3593	4.387	Infinity	
67	0+640.00	502971.3369	4791044.4147	4.466	Infinity	
68	0+650.00	502975.8083	4791035.4701	4.546	Infinity	
69	0+660.00	502980.2797	4791026.5254	4.626	Infinity	
70	0+670.00	502984.7511	4791017.5808	4.706	Infinity	
71	0+680.00	502989.2225	4791008.6361	4.786	Infinity	
72	0+690.00	502993.7883	4790999.7402	4.863	-150.0000	
73	0+700.00	502998.8819	4790991.1368	4.923	-150.0000	
74	0+710.00	503004.4470	4790982.8290	4.978	200.0000	
75	0+720.00	503009.7490	4790974.3515	5.034	200.0000	
76	0+730.00	503014.6300	4790965.6246	5.085	-946.0000	
77	0+740.00	503019.4287	4790956.8512	5.094	-946.0000	
78	0+750.00	503024.3198	4790948.1291	5.053	-946.0000	
79	0+760.00	503029.2936	4790939.4538	4.989	200.0000	
80	0+770.00	503034.0048	4790930.6343	4.925	200.0000	
81	0+780.00	503038.2884	4790921.5990	4.862	-200.0000	
82	0+790.00	503042.7369	4790912.6441	4.798	-200.0000	
83	0+800.00	503047.6275	4790903.9228	4.731	-200.0000	
84	0+810.00	503052.9437	4790895.4541	4.654	-946.0000	
85	0+820.00	503058.4667	4790887.1177	4.577	-946.0000	
86	0+830.00	503064.0776	4790878.8402	4.535	-946.0000	
87	0+840.00	503069.7756	4790870.6224	4.532	-946.0000	
88	0+850.00	503075.5602	4790862.4654	4.569	-946.0000	
89	0+860.00	503081.4307	4790854.3699	4.643	-946.0000	
90	0+870.00	503087.3865	4790846.3370	4.723	-946.0000	
91	0+880.00	503093.4268	4790838.3674	4.804	-946.0000	
92	0+890.00	503099.5510	4790830.4622	4.884	-946.0000	
93	0+900.00	503105.7768	4790822.6369	4.961	-150.0000	
94	0+910.00	503112.4038	4790815.1506	5.029	-150.0000	
95	0+920.00	503119.4658	4790808.0715	5.092	250.0000	
96	0+930.00	503126.3963	4790800.8635	5.156	250.0000	
97	0+940.00	503133.0453	4790793.3947	5.230	-9999.9999	
98	0+950.00	503139.6223	4790785.8620	5.310	-9999.9999	
99	0+960.00	503146.2069	4790778.3359	5.390	-9999.9999	
100	0+970.00	503152.7991	4790770.8163	5.471	-9999.9999	
101	0+980.00	503159.3976	4790763.3023	5.551	250.0000	
102	0+990.00	503165.8222	4790755.6400	5.626	250.0000	
103	1+000.00	503171.9352	4790747.7269	5.666	250.0000	
104	1+010.00	503178.1082	4790739.8612	5.661	-180.0000	
105	1+020.00	503184.7084	4790732.3505	5.614	-180.0000	
106	1+030.00	503191.6012	4790725.1056	5.535	-1186.0000	
107	1+040.00	503198.5601	4790717.9242	5.454	-1186.0000	
108	1+050.00	503205.5793	4790710.8017	5.374	-1186.0000	
109	1+060.00	503212.6583	4790703.7386	5.294	-1186.0000	
110	1+070.00	503219.7966	4790696.7354	5.213	-1186.0000	
111	1+080.00	503226.9937	4790689.7927	5.133	-1186.0000	
112	1+090.00	503234.2491	4790682.9110	5.053	-1186.0000	
113	1+100.00	503241.5623	4790676.0906	4.973	-1186.0000	
114	1+110.00	503248.9327	4790669.3322	4.892	-1186.0000	
115	1+120.00	503256.3598	4790662.6361	4.822	-1186.0000	
116	1+130.00	503263.8431	4790656.0029	4.792	-1186.0000	
117	1+140.00	503271.3821	4790649.4330	4.804	-1186.0000	
118	1+150.00	503278.9762	4790642.9270	4.857	-1186.0000	
119	1+160.00	503286.6249	4790636.4852	4.937	-1186.0000	
120	1+170.00	503294.3276	4790630.1081	5.017	-1186.0000	
121	1+180.00	503302.0839	4790623.7962	5.097	-1186.0000	
122	1+190.00	503309.8930	4790617.5499	5.177	-1186.0000	
123	1+200.00	503317.7546	4790611.3696	5.257	-1186.0000	
124	1+210.00	503325.6680	4790605.2559	5.337	-1186.0000	
125	1+220.00	503333.6326	4790599.2091	5.417	-1186.0000	
126	1+230.00	503341.6814	4790593.2750	5.497	-400.0000	
127	1+240.00	503349.8744	4790587.5419	5.573	-400.0000	
128	1+250.00	503358.2083	4790582.0154	5.640	-400.0000	
129	1+260.00	503366.6776	4790576.6990	5.704	-400.0000	
130	1+270.00	503375.2241	4790571.5069	5.768	600.0000	
131	1+280.00	503383.6924	4790566.1885	5.832	600.0000	
132	1+290.00	503392.0709	4790560.7297	5.896	600.0000	
133	1+300.00	503400.3572	4790555.1320	5.967	600.0000	
134	1+310.00	503408.5491	4790549.3970	6.046	600.0000	
135	1+320.00	503416.6443	4790543.5263	6.126	600.0000	
136	1+330.00	503424.6574	4790537.5439	6.196	-500.0000	
137	1+340.00	503432.7486	4790531.6678	6.226	-500.0000	
138	1+350.00	503440.9558	4790525.9547	6.214	-500.0000	
139	1+360.00	503449.2755	4790520.4068	6.161	-500.0000	
140	1+370.00	503457.7046	4790515.0265	6.081	-500.0000	
141	1+380.00	503466.2395	4790509.8158	6.000	-500.0000	
142	1+390.00	503474.8647	4790504.7557	5.920	-1792.7500	
143	1+400.00	503483.5243	4790499.7546	5.839	-1792.7500	
144	1+410.00	503492.2117	4790494.8018	5.759	-1792.7500	

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
145	1+420.00	503500.9265	4790489.8976	5.679	-1792.7500	
146	1+430.00	503509.6686	4790485.0421	5.598	-1792.7500	
147	1+440.00	503518.4376	4790480.2355	5.518	-1792.7500	
148	1+450.00	503527.2333	4790475.4778	5.437	-1792.7500	
149	1+460.00	503536.1271	4790470.9096	5.352	-125.0000	
150	1+470.00	503545.3390	4790467.0253	5.257	-125.0000	
151	1+480.00	503554.7851	4790463.7449	5.155	300.0000	
152	1+490.00	503564.1632	4790460.2746	5.061	300.0000	
153	1+500.00	503573.4283	4790456.5126	4.977	Infinity	
154	1+510.00	503582.6669	4790452.6854	4.897	Infinity	
155	1+520.00	503591.9056	4790448.8582	4.817	Infinity	
156	1+530.00	503601.1442	4790445.0309	4.737	Infinity	
157	1+540.00	503610.3828	4790441.2037	4.699	Infinity	
158	1+550.00	503619.6215	4790437.3765	4.745	Infinity	
159	1+560.00	503628.8774	4790433.5920	4.858	-83.3279	
160	1+570.00	503638.5108	4790431.0057	4.978	-27.0265	
161	1+580.00	503648.4132	4790431.7931	5.098	-25.0000	
162	1+590.00	503657.2274	4790436.3737	5.219	-25.0000	
163	1+600.00	503663.6443	4790443.9729	5.339	-40.6640	
164	1+610.00	503668.0604	4790452.9377	5.459	Infinity	
165	1+620.00	503672.1202	4790462.0765	5.579	Infinity	
166	1+620.56	503672.3478	4790462.5888	5.585	Infinity	

EJE 18

12/01/2018  
COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIA ORDEZKARITZA  
VISADO BISATUA



COLEGIO OFICIAL DE ARQUITECTOS VASCO-NAVARRO  
EUSKAL HERRIKO ARKITEKTOEN ELKARGO OFIZIALA  
DELEGACION EN BIZKAIA  
BIZKAIAK OREZKARITZA

12/01/2018

VISADO BISATUA



ALINEACIONES EN PLANTA

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-18	Centreline Alignment	0+000.00	1+296.15	1296.1516

  

Point	Station	Easting	Northing	Elevation	Bearing	Alignment Radius	Entity	Alignment Point Code
1	0+000.00	502695.5272	4791606.1225		178° 53' 22.915"	Infinity	Line	Start Point
2	0+005.00	502695.6241	4791601.1234		178° 53' 22.915"	60.0000	Curve	Tangent Point
3	0+020.06	502694.0341	4791586.1916		193° 16' 0.613"	-40.0000	Curve	Tangent Point
4	0+035.76	502693.4849	4791570.5936		170° 45' 58.011"	-207.2613	Curve	Tangent Point
5	0+108.89	502717.5797	4791501.9501		150° 33' 1.376"	Infinity	Line	Tangent Point
6	0+364.56	502843.2827	4791279.3143		150° 33' 1.376"	150.0000	Curve	Tangent Point
7	0+384.24	502851.8080	4791261.5929		158° 4' 2.686"	-200.0000	Curve	Tangent Point
8	0+403.46	502859.8301	4791244.1397		152° 33' 44.855"	2000.0000	Curve	Tangent Point
9	0+434.11	502873.7449	4791216.8284		153° 26' 26.088"	Infinity	Line	Tangent Point
10	0+477.11	502892.9712	4791178.3665		153° 26' 26.080"	-200.0000	Curve	Tangent Point
11	0+498.10	502903.3236	4791160.1177		147° 25' 38.202"	200.0000	Curve	Tangent Point
12	0+519.09	502913.6748	4791141.8715		153° 26' 23.082"	Infinity	Line	Tangent Point
13	0+647.73	502971.1953	4791026.8063		153° 26' 23.082"	200.0000	Curve	Tangent Point
14	0+672.23	502980.7832	4791004.2739		160° 27' 33.470"	-200.0000	Curve	Tangent Point
15	0+699.73	502991.7293	4790979.0747		152° 34' 56.636"	Infinity	Line	Tangent Point
16	0+706.48	502994.8388	4790973.0803		152° 34' 56.625"	-150.0000	Curve	Tangent Point
17	0+728.91	503006.6133	4790954.0165		144° 0' 56.363"	250.0000	Curve	Tangent Point
18	0+753.89	503020.2593	4790933.1007		149° 44' 29.728"	-954.0000	Curve	Tangent Point
19	0+890.29	503097.1651	4790820.5905		141° 32' 58.805"	250.0000	Curve	Tangent Point
20	0+911.86	503109.8306	4790803.1444		146° 29' 31.603"	-150.0000	Curve	Tangent Point
21	0+931.68	503121.8335	4790787.3850		138° 55' 11.297"	-9999.9999	Curve	Tangent Point
22	0+973.73	503149.5335	4790755.7443		138° 40' 43.899"	-150.0000	Curve	Tangent Point
23	0+993.43	503163.4683	4790741.8494		131° 9' 24.391"	200.0000	Curve	Tangent Point
24	1+012.87	503177.4611	4790728.3643		136° 43' 34.102"	-1194.0000	Curve	Tangent Point
25	1+240.28	503348.1312	4790578.5868		125° 48' 47.838"	Infinity	Line	Tangent Point
26	1+271.11	503373.1319	4790560.5469		125° 48' 47.838"	14.0000	Curve	Tangent Point
27	1+296.15	503374.2562	4790538.7437		228° 16' 58.554"	14.0000	Curve	End Point

ALINEACIONES EN ALZADO

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-18	Layout Profile	-0.052	1296.725	1296.7770

  

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
1	0+000.00	6.741	1.00 %	Infinity	Tangent	Start Point	
2	0+002.58	6.766	1.00 %	199.9995	Symmetric Parabolic		Tangent Point
3	0+004.58	6.776	0.00 %	199.9995	Symmetric Parabolic		Crest Point
4	0+005.00	6.776	-0.21 %	199.9995	Symmetric Parabolic	Tangent Point	
5	0+011.15	6.668	-3.29 %	Infinity	Tangent		Tangent Point
6	0+017.99	6.443	-3.29 %	-1000.0001	Symmetric Parabolic		Tangent Point
7	0+020.06	6.378	-3.08 %	-1000.0001	Symmetric Parabolic	Tangent Point	
8	0+029.74	6.126	-2.11 %	Infinity	Tangent		Tangent Point
9	0+035.00	6.015	-2.11 %	-1999.9956	Symmetric Parabolic		Tangent Point
10	0+035.76	5.999	-2.07 %	-1999.9956	Symmetric Parabolic	Tangent Point	
11	0+061.46	5.631	-0.79 %	Infinity	Tangent		Tangent Point
12	0+108.89	5.256	-0.79 %	Infinity	Tangent	Tangent Point	
13	0+187.71	4.634	-0.79 %	-2500.0008	Symmetric Parabolic		Tangent Point
14	0+207.46	4.556	0.00 %	-2500.0008	Symmetric Parabolic	Sag Point	
15	0+227.46	4.636	0.80 %	Infinity	Tangent		Tangent Point
16	0+364.56	5.732	0.80 %	Infinity	Tangent	Tangent Point	
17	0+368.24	5.762	0.80 %	2500.0015	Symmetric Parabolic		Tangent Point
18	0+384.24	5.839	0.16 %	2500.0015	Symmetric Parabolic	Tangent Point	
19	0+388.24	5.842	0.00 %	2500.0015	Symmetric Parabolic		Crest Point
20	0+403.46	5.796	-0.61 %	2500.0015	Symmetric Parabolic	Tangent Point	
21	0+408.11	5.763	-0.79 %	Infinity	Tangent		Tangent Point
22	0+434.11	5.556	-0.79 %	Infinity	Tangent	Tangent Point	
23	0+477.11	5.215	-0.79 %	Infinity	Tangent	Tangent Point	
24	0+477.61	5.211	-0.79 %	-8000.0038	Symmetric Parabolic		Tangent Point
25	0+493.75	5.099	-0.59 %	Infinity	Tangent	Tangent Point	
26	0+498.10	5.073	-0.59 %	Infinity	Tangent	Tangent Point	
27	0+503.39	5.042	-0.59 %	7999.9551	Symmetric Parabolic		Tangent Point
28	0+519.09	4.933	-0.79 %	7999.9551	Symmetric Parabolic	Tangent Point	
29	0+519.97	4.926	-0.80 %	Infinity	Tangent	Tangent Point	
30	0+584.80	4.407	-0.80 %	-2499.9979	Symmetric Parabolic		Tangent Point
31	0+604.80	4.328	0.00 %	-2499.9979	Symmetric Parabolic	Sag Point	
32	0+624.79	4.407	0.80 %	Infinity	Tangent	Tangent Point	
33	0+647.73	4.591	0.80 %	Infinity	Tangent	Tangent Point	
34	0+648.20	4.595	0.80 %	7499.9569	Symmetric Parabolic		Tangent Point
35	0+669.47	4.734	0.52 %	Infinity	Tangent	Tangent Point	
36	0+672.23	4.749	0.52 %	Infinity	Tangent	Tangent Point	
37	0+674.28	4.759	0.52 %	-7999.9992	Symmetric Parabolic		Tangent Point
38	0+697.04	4.909	0.80 %	Infinity	Tangent	Tangent Point	
39	0+699.73	4.931	0.80 %	Infinity	Tangent	Tangent Point	
40	0+706.48	4.985	0.80 %	Infinity	Tangent	Tangent Point	
41	0+715.69	5.058	0.80 %	2300.0012	Symmetric Parabolic		Tangent Point
42	0+728.91	5.126	0.23 %	2300.0012	Symmetric Parabolic	Tangent Point	
43	0+734.11	5.132	0.00 %	2300.0012	Symmetric Parabolic		Crest Point
44	0+752.42	5.059	-0.80 %	Infinity	Tangent	Tangent Point	
45	0+753.89	5.047	-0.80 %	Infinity	Tangent	Tangent Point	
46	0+809.31	4.606	-0.80 %	-2499.9985	Symmetric Parabolic		Tangent Point
47	0+829.22	4.527	0.00 %	-2499.9985	Symmetric Parabolic	Sag Point	
48	0+849.14	4.606	0.80 %	Infinity	Tangent	Tangent Point	
49	0+887.53	4.912	0.80 %	9999.9427	Symmetric Parabolic		Tangent Point
50	0+890.29	4.934	0.77 %	9999.9427	Symmetric Parabolic	Tangent Point	
51	0+909.23	5.062	0.58 %	Infinity	Tangent	Tangent Point	
52	0+911.86	5.077	0.58 %	Infinity	Tangent	Tangent Point	
53	0+913.57	5.087	0.58 %	-10000.0333	Symmetric Parabolic		Tangent Point

Point	Station	Elevation	Gradient	Profile Radius	Profile Entity	Alignment Point Code	Profile Point Code
54	0+931.68	5.208	0.76 %	-10000.0333	Symmetric Parabolic	Tangent Point	
55	0+935.48	5.238	0.80 %	Infinity	Tangent		Tangent Point
56	0+973.73	5.544	0.80 %	Infinity	Tangent	Tangent Point	
57	0+981.19	5.603	0.80 %	2200.0015	Symmetric Parabolic		Tangent Point
58	0+993.43	5.667	0.24 %	2200.0015	Symmetric Parabolic	Tangent Point	
59	0+998.77	5.674	0.00 %	2200.0015	Symmetric Parabolic		Crest Point
60	1+012.87	5.628	-0.64 %	2200.0015	Symmetric Parabolic	Tangent Point	
61	1+016.31	5.604	-0.80 %	Infinity	Tangent		Tangent Point
62	1+108.13	4.872	-0.80 %	-2500.0004	Symmetric Parabolic	Tangent Point	
63	1+128.06	4.792	0.00 %	-2500.0004	Symmetric Parabolic		Sag Point
64	1+148.05	4.872	0.80 %	Infinity	Tangent		Tangent Point
65	1+240.28	5.609	0.80 %	Infinity	Tangent	Tangent Point	
66	1+268.33	5.833	0.80 %	900.0012	Symmetric Parabolic		Tangent Point
67	1+271.11	5.851	0.49 %	900.0012	Symmetric Parabolic	Tangent Point	
68	1+275.52	5.862	0.00 %	900.0012	Symmetric Parabolic		Crest Point
69	1+286.63	5.794	-1.23 %	Infinity	Tangent		Tangent Point
70	1+296.15	5.676	-1.23 %	Infinity	Tangent	End Point	

PUNTOS SINGULARES Y CADA 10 METROS

Alignment/Profile Name	Type	Start Station	End Station	Length
EJE-18	Layout Profile	-0.052	1296.725	1296.7770

  

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
1	0+000.00	502695.5272	4791606.1225	6.741	Infinity	
2	0+010.00	502695.5127	4791596.1261	6.703	60.0000	
3	0+020.00	502694.0468	4791586.2458	6.379	60.0000	
4	0+030.00	502692.9724	4791576.3299	6.121	-40.0000	
5	0+040.00	502694.2073	4791566.4199	5.916	-207.2613	
6	0+050.00	502696.2498	4791556.6317	5.754	-207.2613	
7	0+060.00	502698.7621	4791546.9534	5.643	-207.2613	
8	0+070.00	502701.7382	4791537.4075	5.563	-207.2613	
9	0+080.00	502705.1712	4791528.0163	5.484	-207.2613	
10	0+090.00	502709.0532	4791518.8016	5.405	-207.2613	
11	0+100.00	502713.3751	4791509.7849	5.326	-207.2613	
12	0+110.00	502718.1243	4791500.9856	5.247	Infinity	
13	0+120.00	502723.0408	4791492.2777	5.168	Infinity	
14	0+130.00	502727.9574	4791483.5698	5.089	Infinity	
15	0+140.00	502732.8740	4791474.8619	5.010	Infinity	
16	0+150.00	502737.7906	4791466.1540	4.931	Infinity	
17	0+160.00	502742.7072	4791457.4462	4.852	Infinity	
18	0+170.00	502747.6237	4791448.7383	4.773	Infinity	
19	0+180.00	502752.5403	4791440.0304	4.694	Infinity	
20	0+190.00	502757.4569	4791431.3225	4.617	Infinity	
21	0+200.00	502762.3735	4791422.6146	4.567	Infinity	
22	0+210.00	502767.2901	4791413.9067	4.557	Infinity	
23	0+220.00	502772.2066	4791405.1989	4.587	Infinity	
24	0+230.00	502777.1232	4791396.4910	4.656	Infinity	
25	0+240.00	502782.0398	4791387.7831	4.736	Infinity	
26	0+250.00	502786.9564	4791379.0752	4.816	Infinity	
27	0+260.00	502791.8730	4791370.3673	4.896	Infinity	
28	0+270.00	502796.7895	4791361.6594	4.976	Infinity	
29	0+280.00	502801.7061	4791352.9516	5.056	Infinity	
30	0+290.00	502806.6227	4791344.2437	5.136	Infinity	
31	0+300.00	502811.5393	4791335.5358	5.216	Infinity	
32	0+310.00	502816.4559	4791326.8279	5.296	Infinity	
33	0+320.00	502821.3724	4791318.1200	5.376	Infinity	
34	0+330.00	502826.2890	4791309.4121	5.456	Infinity	
35	0+340.00	502831.2056	4791300.7043	5.536	Infinity	
36	0+350.00	502836.1222	4791291.9964	5.616	Infinity	
37	0+360.00	502841.0388	4791283.2885	5.696	Infinity	
38	0+370.00	502845.9554	4791274.5806	5.776	150.0000	
39	0+380.00	502850.8720	4791265.8727	5.828	150.0000	
40	0+390.00	502855.7886	4791256.1648	5.841	-200.0000	
41	0+400.00	502858.2627	479124			

Point	Station	Easting	Northing	Elevation	Alignment Radius	Profile Point Code
70	0+690.00	502987.4612	4790987.8161	4.856	-200.0000	
71	0+700.00	502991.8542	4790978.8339	4.933	Infinity	
72	0+710.00	502996.4954	4790969.9764	5.013	-150.0000	
73	0+720.00	503001.5956	4790961.3769	5.089	-150.0000	
74	0+730.00	503007.2522	4790953.1326	5.128	250.0000	
75	0+740.00	503012.9286	4790944.9006	5.125	250.0000	
76	0+750.00	503018.2713	4790936.4482	5.077	250.0000	
77	0+760.00	503023.3532	4790927.8359	4.999	-954.0000	
78	0+770.00	503028.4924	4790919.2576	4.919	-954.0000	
79	0+780.00	503033.7213	4790910.7336	4.840	-954.0000	
80	0+790.00	503039.0392	4790902.2649	4.760	-954.0000	
81	0+800.00	503044.4455	4790893.8524	4.680	-954.0000	
82	0+810.00	503049.9398	4790885.4970	4.601	-954.0000	
83	0+820.00	503055.5213	4790877.1997	4.544	-954.0000	
84	0+830.00	503061.1895	4790868.9613	4.527	-954.0000	
85	0+840.00	503066.9438	4790860.7829	4.550	-954.0000	
86	0+850.00	503072.7834	4790852.6651	4.613	-954.0000	
87	0+860.00	503078.7079	4790844.6091	4.693	-954.0000	
88	0+870.00	503084.7164	4790836.6155	4.773	-954.0000	
89	0+880.00	503090.8084	4790828.6854	4.852	-954.0000	
90	0+890.00	503096.9832	4790820.8196	4.932	-954.0000	
91	0+900.00	503103.0524	4790812.8728	5.004	250.0000	
92	0+910.00	503108.7992	4790804.6898	5.066	250.0000	
93	0+920.00	503114.5074	4790796.4809	5.126	-150.0000	
94	0+930.00	503120.7352	4790788.6592	5.196	-150.0000	
95	0+940.00	503127.3018	4790781.1174	5.274	-9999.9999	
96	0+950.00	503133.8830	4790773.5883	5.354	-9999.9999	
97	0+960.00	503140.4717	4790766.0657	5.434	-9999.9999	
98	0+970.00	503147.0680	4790758.5498	5.514	-9999.9999	
99	0+980.00	503153.7673	4790751.1268	5.594	-150.0000	
100	0+990.00	503160.9136	4790744.1345	5.656	-150.0000	
101	1+000.00	503168.3448	4790737.4435	5.673	200.0000	
102	1+010.00	503175.4800	4790730.4386	5.645	200.0000	
103	1+020.00	503182.3652	4790723.1865	5.574	-1194.0000	
104	1+030.00	503189.2937	4790715.9757	5.494	-1194.0000	
105	1+040.00	503196.2823	4790708.8232	5.415	-1194.0000	
106	1+050.00	503203.3306	4790701.7294	5.335	-1194.0000	
107	1+060.00	503210.4380	4790694.6950	5.255	-1194.0000	
108	1+070.00	503217.6041	4790687.7203	5.176	-1194.0000	
109	1+080.00	503224.8284	4790680.8058	5.096	-1194.0000	
110	1+090.00	503232.1103	4790673.9521	5.016	-1194.0000	
111	1+100.00	503239.4493	4790667.1597	4.936	-1194.0000	
112	1+110.00	503246.8450	4790660.4289	4.857	-1194.0000	
113	1+120.00	503254.2968	4790653.7603	4.805	-1194.0000	
114	1+130.00	503261.8042	4790647.1544	4.793	-1194.0000	
115	1+140.00	503269.3667	4790640.6116	4.821	-1194.0000	
116	1+150.00	503276.9837	4790634.1323	4.888	-1194.0000	
117	1+160.00	503284.6547	4790627.7170	4.967	-1194.0000	
118	1+170.00	503292.3791	4790621.3663	5.047	-1194.0000	
119	1+180.00	503300.1565	4790615.0804	5.127	-1194.0000	
120	1+190.00	503307.9862	4790608.8599	5.207	-1194.0000	
121	1+200.00	503315.8678	4790602.7052	5.287	-1194.0000	
122	1+210.00	503323.8006	4790596.6167	5.367	-1194.0000	
123	1+220.00	503331.7841	4790590.5949	5.447	-1194.0000	
124	1+230.00	503339.8178	4790584.6401	5.527	-1194.0000	
125	1+240.00	503347.9011	4790578.7528	5.607	-1194.0000	
126	1+250.00	503356.0104	4790572.9014	5.687	Infinity	
127	1+260.00	503364.1196	4790567.0499	5.767	Infinity	
128	1+270.00	503372.2289	4790561.1984	5.845	Infinity	
129	1+280.00	503378.2683	4790553.4779	5.851	14.0000	
130	1+290.00	503377.8167	4790543.6995	5.752	14.0000	
131	1+296.15	503374.2562	4790538.7437	5.676	14.0000	

COAVIN  
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 EUSKAL HERRIKO ARKITEKTEN ELKARGO OFIZIALA  
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 BIZKAIA ORDEZKARITZA  
 12/01/2018  
 VISADO BISATUA