

ANEJO N° 6.

MODIFICACIÓN DE LA CONEXIÓN FERROVIARIA EN GALTZARABORDA



**ADENDA A PROPUESTA
CONEXIÓN FERROVIARIA EN GALTZARABORDA
(V03-October 2023)-Rev01**

LISTADO DE ALINEACIONES Y ESTADOS RASANTES

PROYECTO CONSTRUCTIVO DEL METRO DONOSTIALDEA.

TRAMO: ALTZA-GALTZARABORDA.

07 marzo 2024



1. OBJETO	2
2. LISTADOS DE ALINEACIONES	2
3. ESTADOS DE RASANTE	2
ANEJO Nº 1.- Listados de alineaciones	3
ANEJO Nº 2.- Estados de rasantes	8

1. OBJETO

El presente documento es una adenda a la propuesta de conexión ferroviaria en Galtzaraborda (V03-October 2023). Rev01, de fecha 16 de octubre de 2023, y su objeto es recoger los listados de alineaciones y estados de rasantes, referidos a los distintos ejes, de la totalidad del trazado ferroviario:

- Eje de la infraestructura
- Eje vía derecha
- Eje vía izquierda
- Eje vía mercancías

2. LISTADOS DE ALINEACIONES

En el Anejo nº 1, se incluyen los listados de alineaciones de los cuatro ejes mencionados de la totalidad del trazado ferroviario.

3. ESTADOS DE RASANTE

El Anejo nº 2, recoge el estado de rasantes de los cuatro ejes.



ANEJO Nº 1.- Listados de alineaciones

PUNTOS SINGULARES

<u>Estación</u>	<u>Longitud</u>	<u>Coord. X</u>	<u>Coord. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>	<u>X Centro</u>	<u>Y Centro</u>
1+000,000	0,000	586.884,498	4.796.364,187	126,4217	-375,000		587.035,705	4.796.707,351
1+104,582	104,582	586.984,808	4.796.335,821	108,6673	-375,000		587.035,705	4.796.707,351
1+169,582	65,000	587.049,646	4.796.333,247	95,7605	-280,000	268,034	587.031,013	4.796.612,626
1+369,582	200,000	587.228,106	4.796.413,744	50,2877	-280,000		587.031,013	4.796.612,626
1+429,582	60,000	587.267,581	4.796.458,889	43,4667	Infinito	129,615		
1+525,934	96,352	587.328,374	4.796.533,641	43,4667	Infinito			
1+585,935	60,000	587.367,849	4.796.578,787	50,2877	280,000	129,615	587.564,942	4.796.379,904
1+903,766	317,831	587.662,065	4.796.642,520	122,5511	280,000		587.564,942	4.796.379,904
1+963,766	60,000	587.716,684	4.796.617,757	129,3720	Infinito	129,615		
2+055,495	91,729	587.798,822	4.796.576,921	129,3720	Infinito			
2+085,495	30,000	587.825,572	4.796.563,343	130,9636	600,000	134,164	587.545,117	4.796.032,923
2+155,940	70,445	587.885,774	4.796.526,839	138,4380	600,000		587.545,117	4.796.032,923
2+185,940	30,000	587.910,182	4.796.509,397	140,0296	Infinito	134,164		
2+493,573	307,633	588.158,978	4.796.328,460	140,0296	Infinito			
2+523,573	30,000	588.183,113	4.796.310,642	141,3938	700,000	144,914	587.759,365	4.795.753,473
2+575,163	51,590	588.222,989	4.796.277,928	146,0856	700,000		587.759,365	4.795.753,473
2+605,163	30,000	588.245,179	4.796.257,739	147,4498	Infinito	144,914		
2+692,800	87,637	588.309,580	4.796.198,302	147,4498	Infinito			
2+742,800	50,000	588.347,238	4.796.165,435	142,1447	-300,000	122,474	588.531,649	4.796.402,063
2+849,928	107,128	588.441,585	4.796.115,901	119,4114	-300,000		588.531,649	4.796.402,063
2+899,927	50,000	588.490,024	4.796.103,566	114,1063	Infinito	122,474		
2+932,367	32,440	588.521,671	4.796.096,436	114,1063	Infinito			
2+962,367	30,000	588.551,028	4.796.090,275	111,2977	-340,000	100,995	588.611,050	4.796.424,935
3+016,621	54,254	588.604,966	4.796.084,990	101,1391	-340,000		588.611,050	4.796.424,935
3+046,621	30,000	588.634,962	4.796.085,335	98,3305	Infinito	100,995		
3+115,560	68,939	588.703,877	4.796.087,143	98,3305	Infinito			

PUNTOS SINGULARES

<u>Estación</u>	<u>Longitud</u>	<u>Coord. X</u>	<u>Coord. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>	<u>X Centro</u>	<u>Y Centro</u>
1+000,000	0,000	586.883,793	4.796.362,586	126,4221	-376,750		587.035,708	4.796.707,350
1+106,738	106,738	586.986,224	4.796.333,864	108,3858	-376,750		587.035,708	4.796.707,350
1+171,738	65,000	587.051,072	4.796.331,555	95,5179	-280,500	267,146	587.031,340	4.796.611,360
1+371,078	199,340	587.228,822	4.796.412,159	50,2760	-280,500		587.031,340	4.796.611,360
1+431,077	60,000	587.268,293	4.796.457,306	43,4673	Infinito	129,730		
1+523,974	92,897	587.326,907	4.796.529,377	43,4673	Infinito			
1+594,136	70,162	587.373,399	4.796.581,858	51,5241	277,195	139,458	587.564,657	4.796.381,215
1+898,020	303,884	587.655,744	4.796.643,017	121,3156	277,195		587.564,657	4.796.381,215
1+968,182	70,162	587.719,785	4.796.614,479	129,3725	Infinito	139,458		
2+053,481	85,299	587.796,165	4.796.576,505	129,3725	Infinito			
2+093,170	39,690	587.831,494	4.796.558,424	131,6012	566,850	149,994	587.561,529	4.796.059,988
2+148,373	55,203	587.878,679	4.796.529,813	137,8009	566,850		587.561,529	4.796.059,988
2+188,063	39,690	587.911,046	4.796.506,846	140,0297	Infinito	149,994		
2+491,063	302,999	588.156,095	4.796.328,633	140,0297	Infinito			
2+531,952	40,889	588.188,907	4.796.304,238	142,0418	646,850	162,632	587.792,112	4.795.793,386
2+566,461	34,509	588.215,583	4.796.282,352	145,4381	646,850		587.792,112	4.795.793,386
2+607,350	40,889	588.245,920	4.796.254,939	147,4503	Infinito	162,632		
2+694,568	87,218	588.310,012	4.796.195,786	147,4503	Infinito			
2+744,551	49,984	588.347,676	4.796.162,950	142,0384	-293,991	121,222	588.528,005	4.796.395,140
2+848,535	103,984	588.439,262	4.796.114,863	119,5214	-293,991		588.528,005	4.796.395,140
2+898,553	50,018	588.487,711	4.796.102,496	114,1058	Infinito	121,264		
2+938,056	39,503	588.526,248	4.796.093,814	114,1058	Infinito			
2+958,057	20,000	588.545,815	4.796.089,680	111,5593	-249,999	70,711	588.590,959	4.796.335,569
2+958,353	0,296	588.546,106	4.796.089,627	111,4838	-249,999		588.590,959	4.796.335,569
2+978,353	20,000	588.565,869	4.796.086,564	108,9373	Infinito	70,711		
2+989,981	11,628	588.577,382	4.796.084,937	108,9373	Infinito			
3+005,077	15,096	588.592,416	4.796.083,647	101,9646	-137,833		588.596,669	4.796.221,414

PUNTOS SINGULARES

<u>Estación</u>	<u>Longitud</u>	<u>Coord. X</u>	<u>Coord. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>	<u>X Centro</u>	<u>Y Centro</u>
1+000,000	0,000	586.885,103	4.796.365,560	126,4216	-373,500		587.035,705	4.796.707,352
1+100,767	100,767	586.981,649	4.796.337,784	109,2461	-373,500		587.035,705	4.796.707,352
1+175,317	74,550	587.055,985	4.796.335,264	94,3320	-277,195	283,098	587.031,338	4.796.611,361
1+361,712	186,395	587.222,598	4.796.410,720	51,5237	-277,195		587.031,338	4.796.611,361
1+431,874	70,162	587.269,089	4.796.463,201	43,4668	Infinito	139,458		
1+524,769	92,895	587.327,701	4.796.535,271	43,4668	Infinito			
1+584,768	60,000	587.367,173	4.796.580,419	50,2755	280,500	129,730	587.564,656	4.796.381,219
1+903,273	318,505	587.662,002	4.796.644,285	122,5630	280,500		587.564,656	4.796.381,219
1+963,273	60,000	587.716,619	4.796.619,519	129,3717	Infinito	129,730		
2+058,489	95,217	587.801,880	4.796.577,131	129,3717	Infinito			
2+088,489	30,000	587.828,624	4.796.563,541	131,0471	570,000	130,767	587.561,532	4.796.059,992
2+153,914	65,424	587.884,537	4.796.529,638	138,3542	570,000		587.561,532	4.796.059,992
2+183,914	30,000	587.908,952	4.796.512,208	140,0295	Infinito	130,767		
2+497,202	313,289	588.162,323	4.796.327,944	140,0295	Infinito			
2+527,202	30,000	588.186,448	4.796.310,113	141,4986	650,000	139,642	587.792,116	4.795.793,391
2+572,963	45,760	588.221,819	4.796.281,095	145,9804	650,000		587.792,116	4.795.793,391
2+602,962	30,000	588.244,020	4.796.260,919	147,4495	Infinito	139,642		
2+689,538	86,575	588.307,641	4.796.202,203	147,4495	Infinito			
2+751,733	62,195	588.354,796	4.796.161,697	140,6393	-290,700	134,462	588.528,018	4.796.395,151
2+841,797	90,064	588.434,219	4.796.120,000	120,9157	-290,700		588.528,018	4.796.395,151
2+903,991	62,195	588.494,337	4.796.104,185	114,1056	Infinito	134,462		
2+935,298	31,307	588.524,879	4.796.097,305	114,1056	Infinito			
2+955,298	20,000	588.544,445	4.796.093,171	111,5591	-250,000	70,711	588.589,589	4.796.339,061
2+957,182	1,884	588.546,299	4.796.092,838	111,0794	-250,000		588.589,589	4.796.339,061
2+977,182	20,000	588.566,081	4.796.089,901	108,5329	Infinito	70,711		
2+977,560	0,378	588.566,456	4.796.089,851	108,5329	Infinito			
2+997,559	20,000	588.586,309	4.796.087,446	105,9524	-246,700	70,242	588.609,342	4.796.333,069
3+017,095	19,536	588.605,811	4.796.086,394	100,9110	-246,700		588.609,342	4.796.333,069
3+037,095	20,000	588.625,808	4.796.086,648	98,3305	Infinito	70,242		
3+115,148	78,053	588.703,834	4.796.088,695	98,3305	Infinito			

PUNTOS SINGULARES

<u>Estación</u>	<u>Longitud</u>	<u>Coord. X</u>	<u>Coord. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>	<u>X Centro</u>	<u>Y Centro</u>
0+000,000	0,000	588.473,476	4.796.084,366	104,6562	-368,265		588.500,387	4.796.451,646
0+032,912	32,912	588.506,364	4.796.083,430	98,9667	-368,265		588.500,387	4.796.451,646
0+052,912	20,000	588.526,351	4.796.084,116	97,2381	Infinito	85,821		
0+072,912	20,000	588.546,340	4.796.084,762	99,3601	300,000	77,460	588.549,355	4.795.784,777
0+075,167	2,255	588.548,594	4.796.084,776	99,8386	300,000		588.549,355	4.795.784,777
0+095,167	20,000	588.568,590	4.796.084,382	101,9607	Infinito	77,460		
0+124,217	29,050	588.597,626	4.796.083,488	101,9607	Infinito			
0+137,217	13,000	588.610,623	4.796.083,200	100,3055	-250,000	57,009	588.611,823	4.796.333,197
0+137,493	0,275	588.610,898	4.796.083,199	100,2354	-250,000		588.611,823	4.796.333,197
0+152,492	15,000	588.625,895	4.796.083,443	98,3255	Infinito	61,237		
0+230,542	78,050	588.703,918	4.796.085,496	98,3255	Infinito			



ANEJO Nº 2.- Estados de rasantes

DATOS DE ENTRADA

<u>Ver.</u>	<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>	<u>Long.(L)</u>	<u>Radio(kv)</u>	<u>Flecha</u>
1	0+910,000	27,000•				
2	0+990,505	27,000•	0,0000	80,004	-2.000,000•	-0,400
3	1+136,148	21,174•	-4,0002	39,962	-16.666,668•	-0,012
4	1+864,315	-9,700•	-4,2400	84,799	2.000,000•	0,449
5	2+103,677	-9,700•	0,0000	49,802	100.000,000•	0,003
6	2+314,513	-9,595•	0,0498	89,005	2.000,000•	0,495
7	2+950,754	19,036•	4,5001	63,490	-1.100,000•	-0,458
8	3+115,665	16,939•	-1,2718			

DATOS DE ENTRADA

<u>Ver.</u>	<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>	<u>Long.(L)</u>	<u>Radio(kv)</u>	<u>Flecha</u>
1	0+910,000	27,000•				
2	0+989,387	27,000•	0,0000	79,402	-2.000,000•	-0,394
3	1+120,291	21,803•	-3,9701	39,971	-18.166,191•	-0,011
4	1+401,763	10,009•	-4,1901	40,074	-80.303,956•	-0,002
5	1+866,596	-9,700•	-4,2400	84,800	2.000,000•	0,449
6	2+103,909	-9,700•	0,0000	49,915	100.000,000•	0,003
7	2+314,265	-9,595•	0,0499	89,004	2.000,000•	0,495
8	2+721,522	8,732•	4,5001	14,595	-77.882,856•	0,000
9	2+951,675	19,046•	4,4814	62,602	-1.100,000•	-0,445
10	3+005,077	18,400•	-1,2097			

DATOS DE ENTRADA

<u>Ver.</u>	<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>	<u>Long.(L)</u>	<u>Radio(kv)</u>	<u>Flecha</u>
1	0+910,000	27,000•				
2	0+989,437	27,000•	0,0000	79,993	-2.000,000•	-0,400
3	1+118,324	21,845•	-3,9996	40,099	-16.666,667•	-0,012
4	1+553,844	3,378•	-4,2402	40,297	80.138,442•	0,003
5	1+865,973	-9,700•	-4,1899	85,804	2.047,858•	0,449
6	2+104,970	-9,700•	0,0000	50,000	100.000,000•	0,003
7	2+314,970	-9,595•	0,0500	89,009	2.000,000•	0,495
8	2+512,550	-0,703•	4,5005	36,979	-164.559,339•	-0,001
9	2+588,812	2,712•	4,4780	36,227	164.559,339•	0,001
10	2+951,701	19,042•	4,5000	63,647	-1.100,000•	-0,460
11	3+115,147	16,940•	-1,2861			

DATOS DE ENTRADA

<u>Ver.</u>	<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>	<u>Long.(L)</u>	<u>Radio(kv)</u>	<u>Flecha</u>
1	0+000,000	19,297•				
2	0+053,750	19,190•	-0,1991	70,831	-7.000,000•	-0,090
3	0+132,945	18,231•	-1,2109	19,457	-20.651,000•	-0,002
4	0+211,020	17,212•	-1,3052			