

Dirección General de Carreteras  
CONSEJERÍA DE TRANSPORTES  
E INFRAESTRUCTURAS  
Comunidad de Madrid

CLAVE:

A-SER-002167/2017

## ESTUDIO INFORMATIVO

TÍTULO:

**ESTUDIO INFORMATIVO DE LA DUPLICACIÓN DE  
CALZADA DE LA CARRETERA M-121. TRAMO A-2  
(ALCALÁ DE HENARES) - MECO**

INGENIERA DIRECTORA DEL ESTUDIO:

**MARÍA LÓPEZ UREÑA**

INGENIERO AUTOR DEL ESTUDIO:

**JAIME ALONSO HERAS**

**DOCUMENTO II. ESTUDIO INFORMATIVO.**

**PLANOS: TOMO II de III**

CONSULTOR:



FECHA:

**JUNIO 2023**



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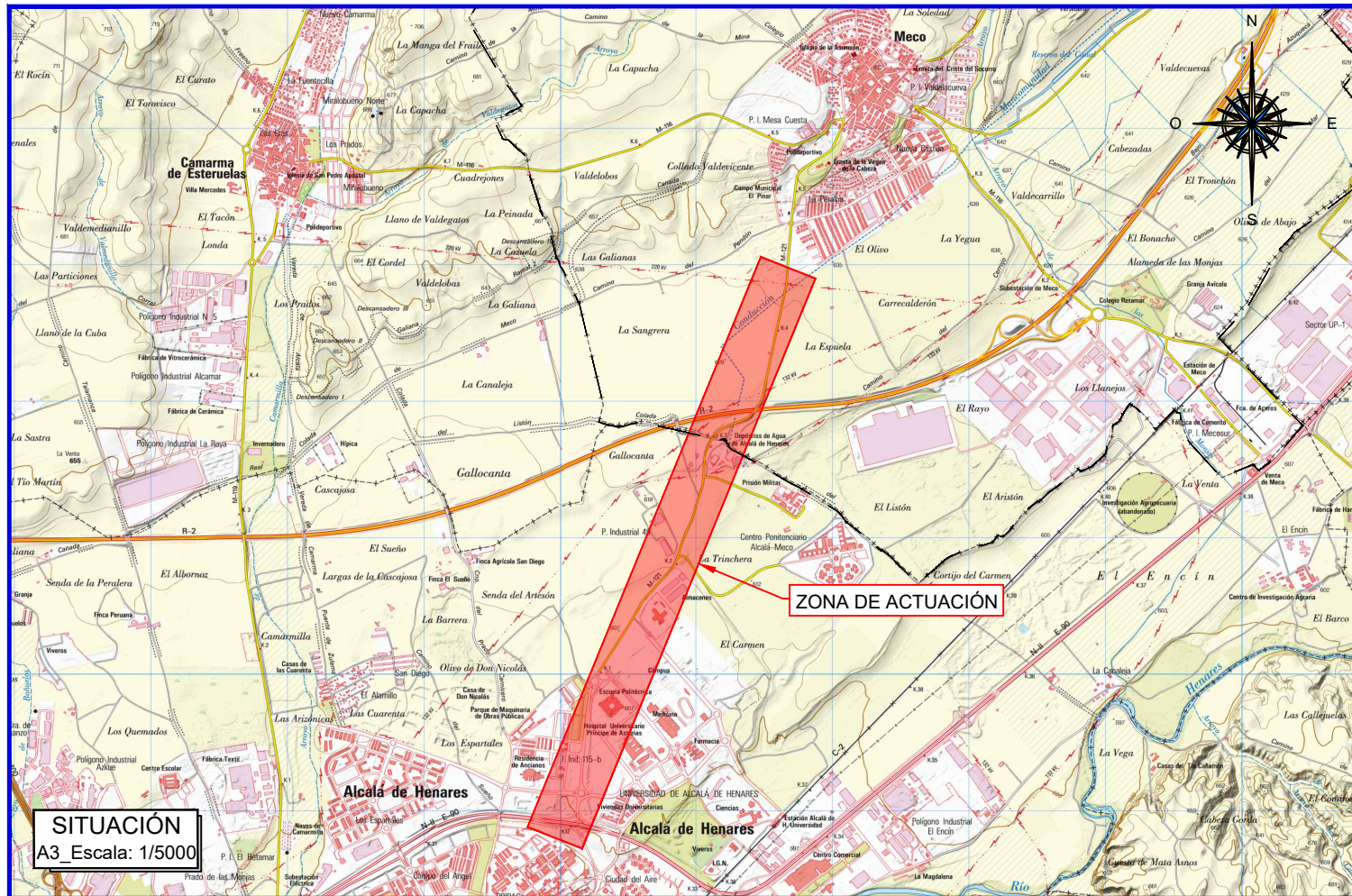
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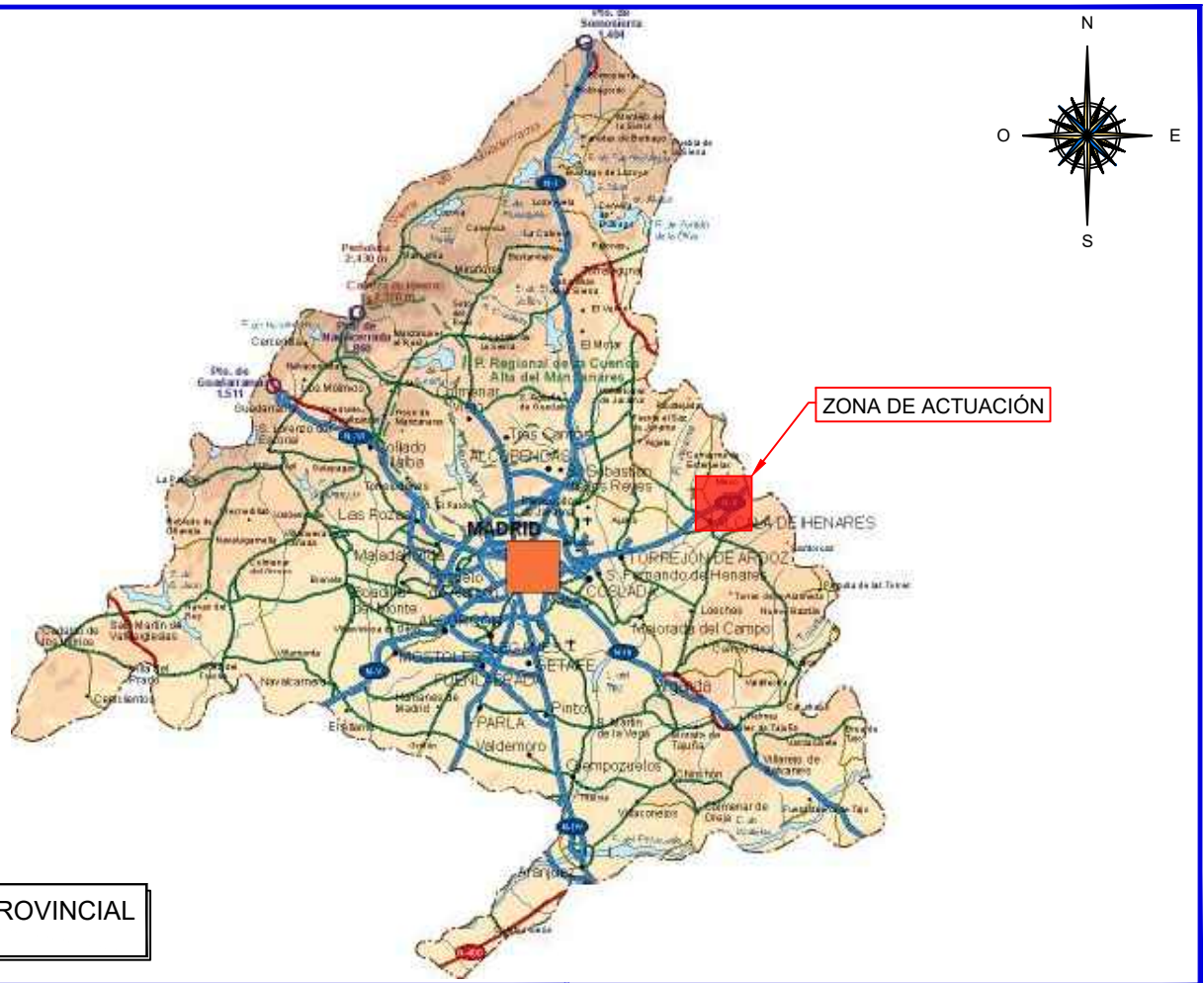
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ORGANISMO	CONSULTOR	AUTOR DEL ESTUDIO	ESCALAS	TÍTULO DE PROYECTO	FECHA	DESIGNACIÓN	Nº PLANO
		 JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	SIN ESCALA	NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	JUNIO 2023	ÍNDICE DE PLANOS	00-01
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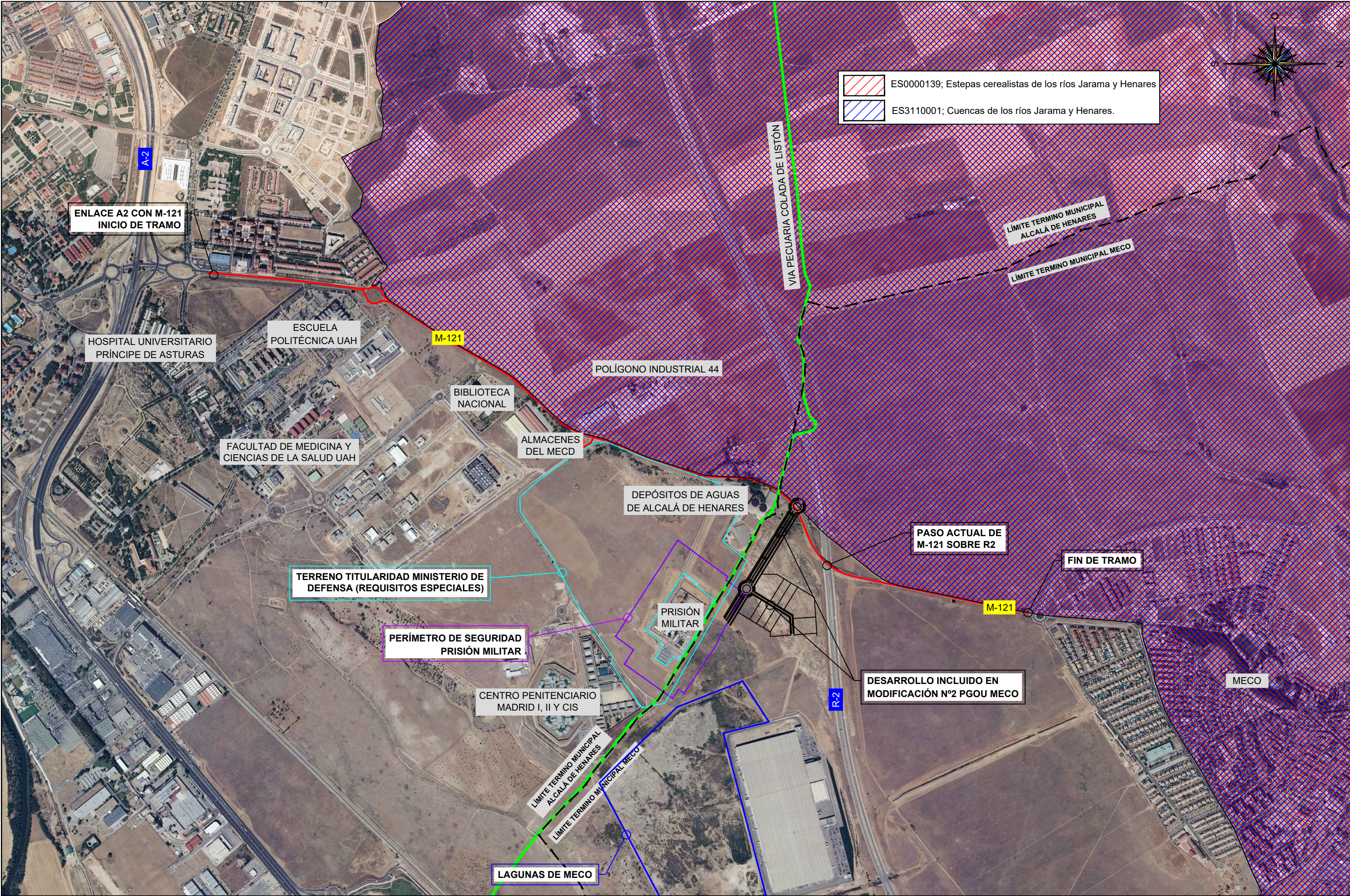
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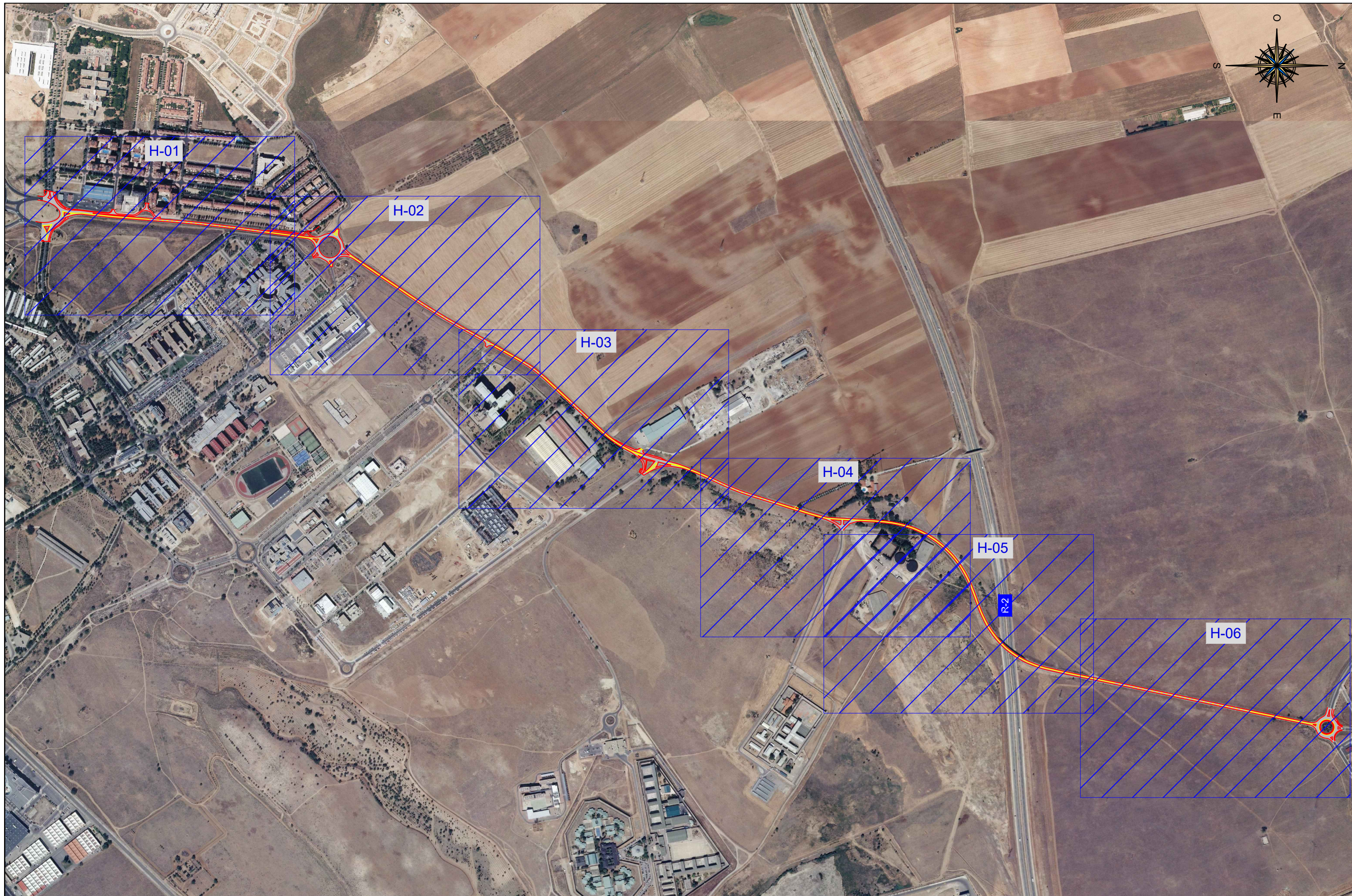




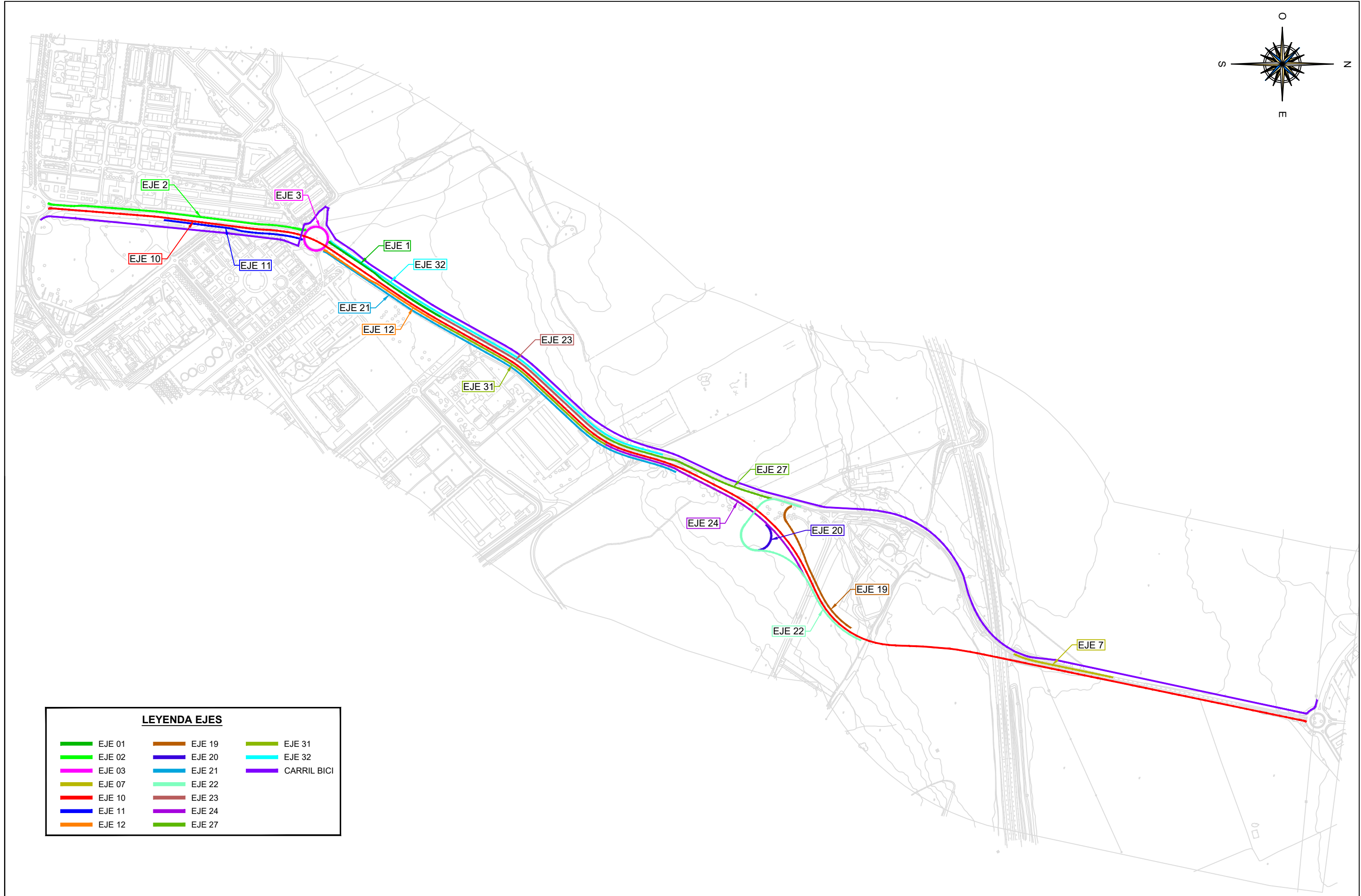












LEYENDA EJES

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EJE 02	EJE 20	EJE 32
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EJE 07	EJE 22	
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EJE 12	EJE 27	

ORGANISMO



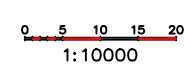
CONSULTOR



AUTOR DEL ESTUDIO



ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

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JUNIO 2023

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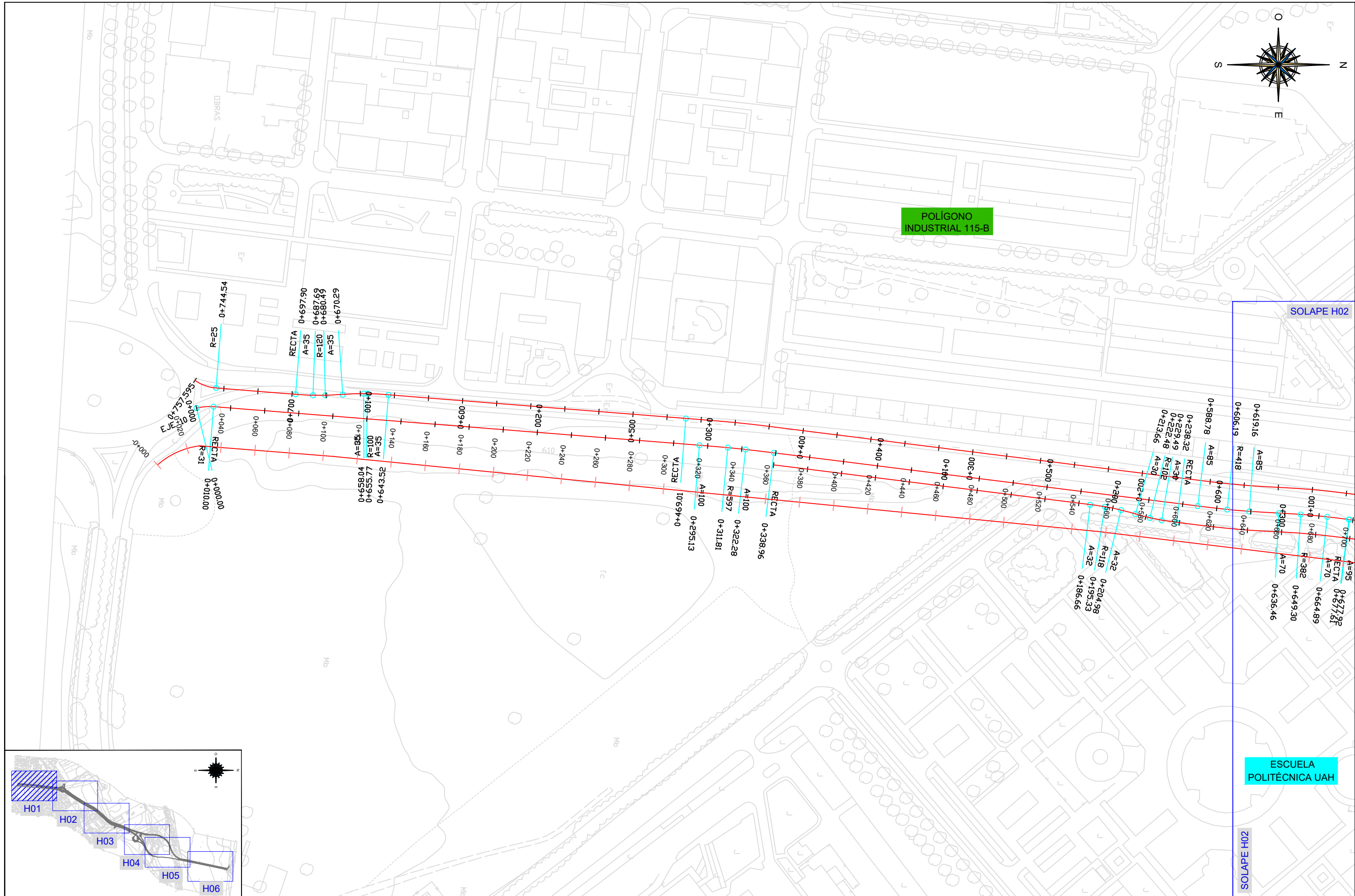
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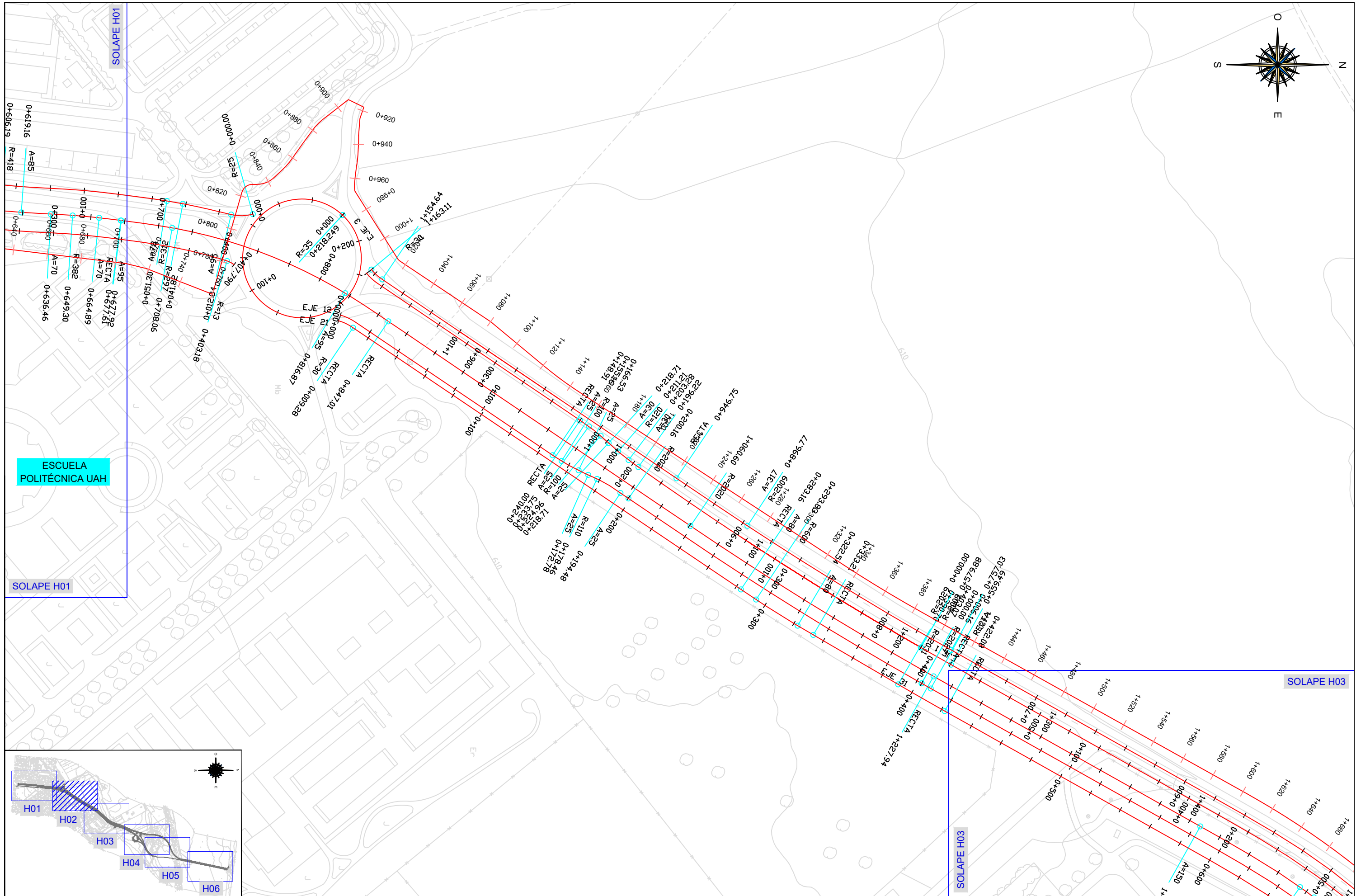
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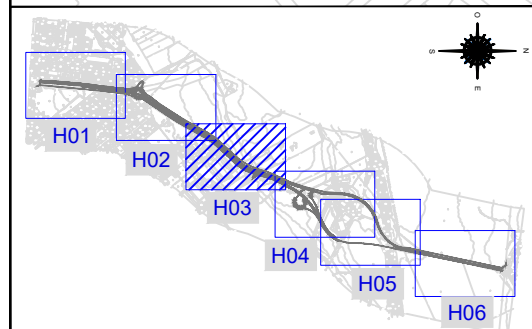
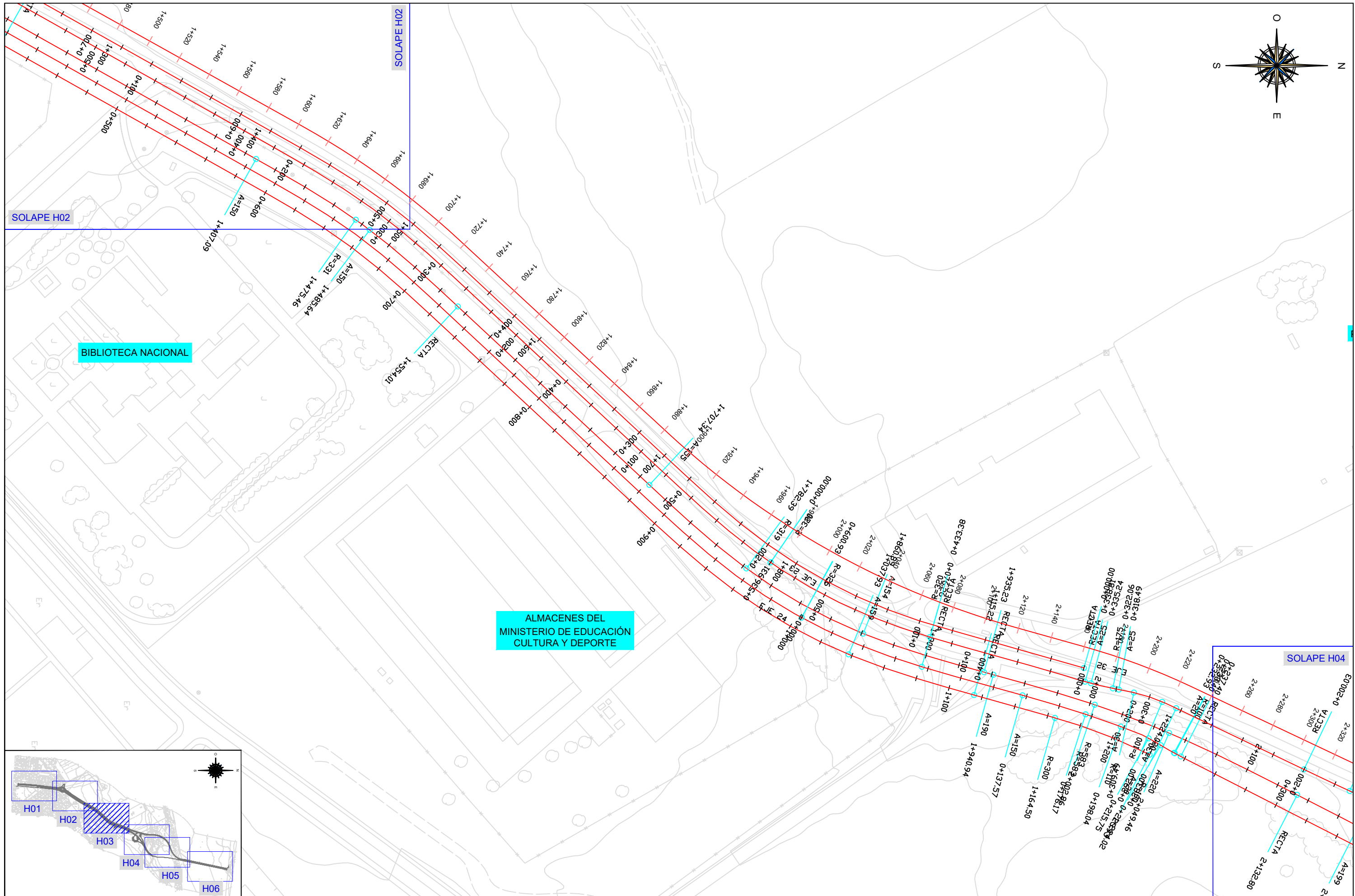
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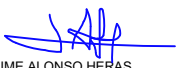
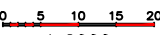






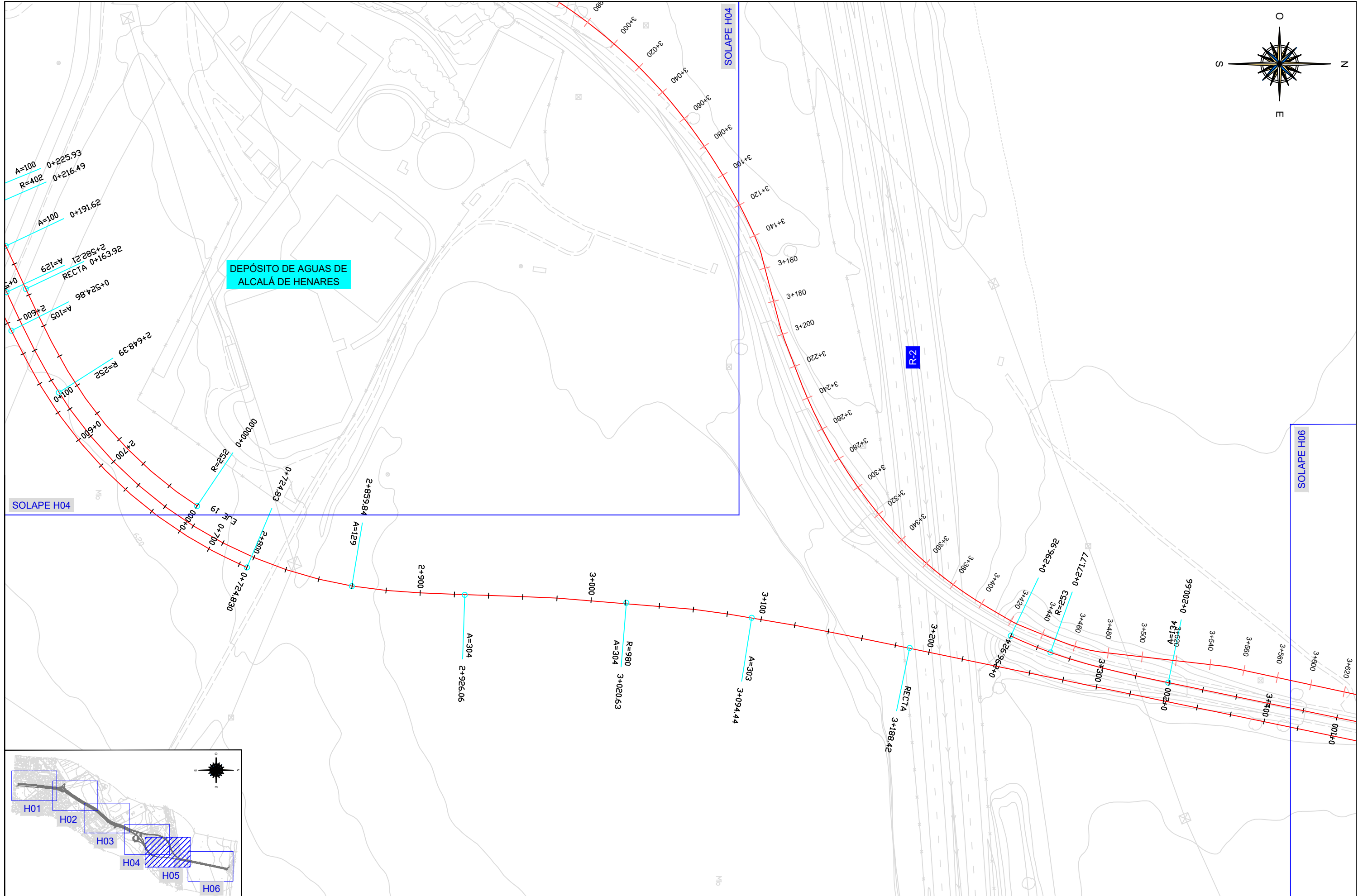




<p>ORGANISMO</p>  <p>CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS <b>Comunidad de Madrid</b></p>	<p>CONSULTOR</p>  <p>INGEMED INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.</p>	<p>AUTOR DEL ESTUDIO</p>  <p>JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS</p>	<p>ESCALAS</p>  <p>0 5 10 15 20 1: 2000</p>	<p>TÍTULO DE PROYECTO</p> <p>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</p>	<p>FECHA</p> <p>JUNIO 2023</p> <p>FICHERO</p> <p>04-01.dwg</p>	<p>DESIGNACIÓN</p> <p>PLANTA REPLANTEO. ALTERNATIVA 1</p>	<p>Nº PLANO</p> <p>04-01</p> <p>HOJA 4 DE 7</p>
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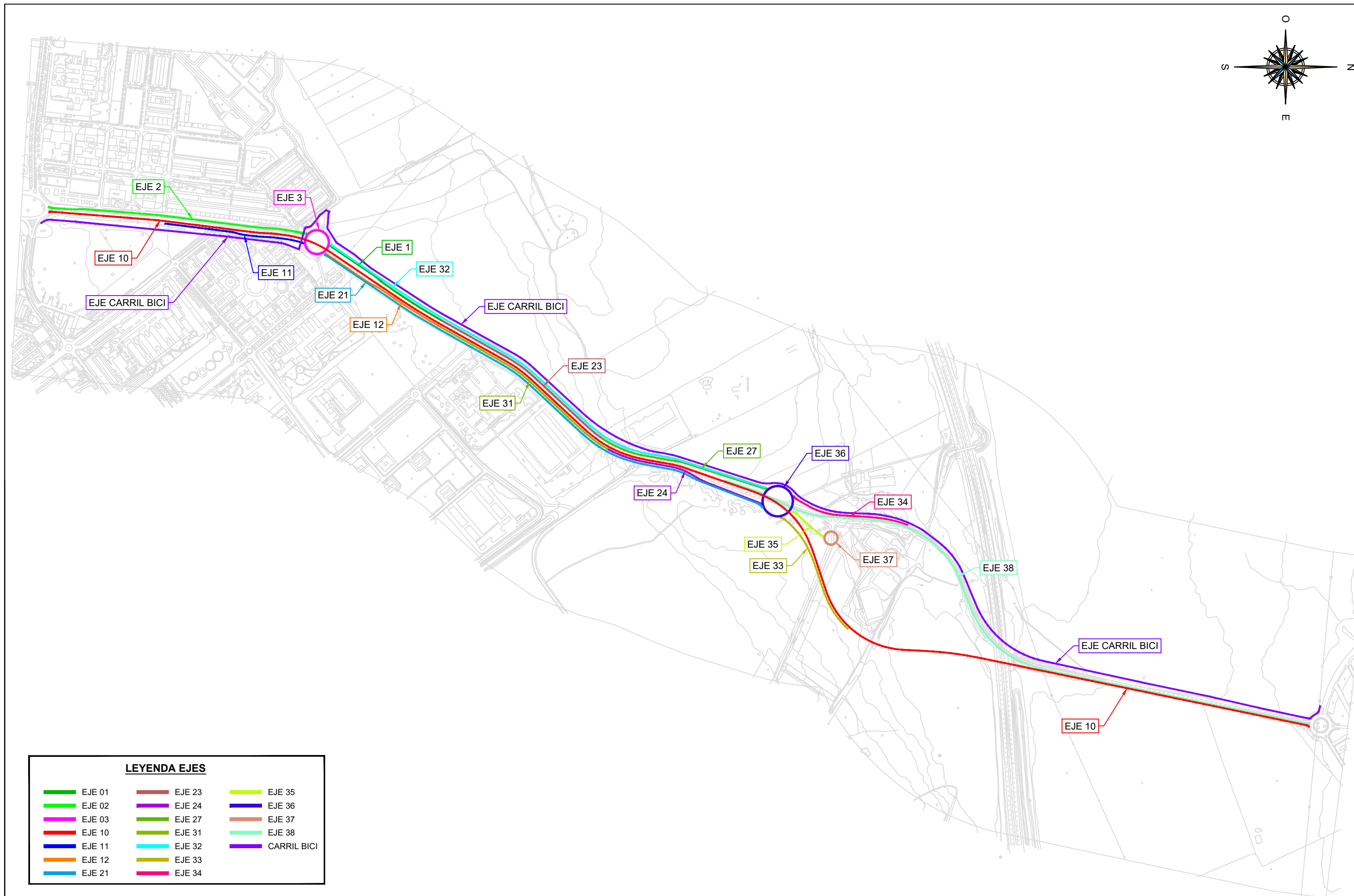




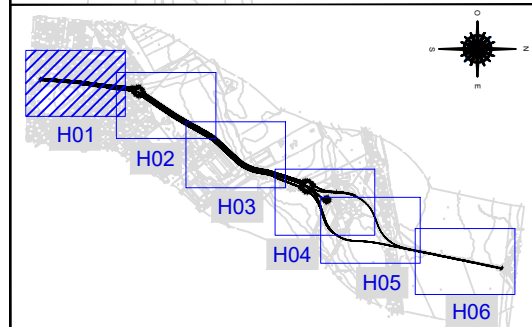
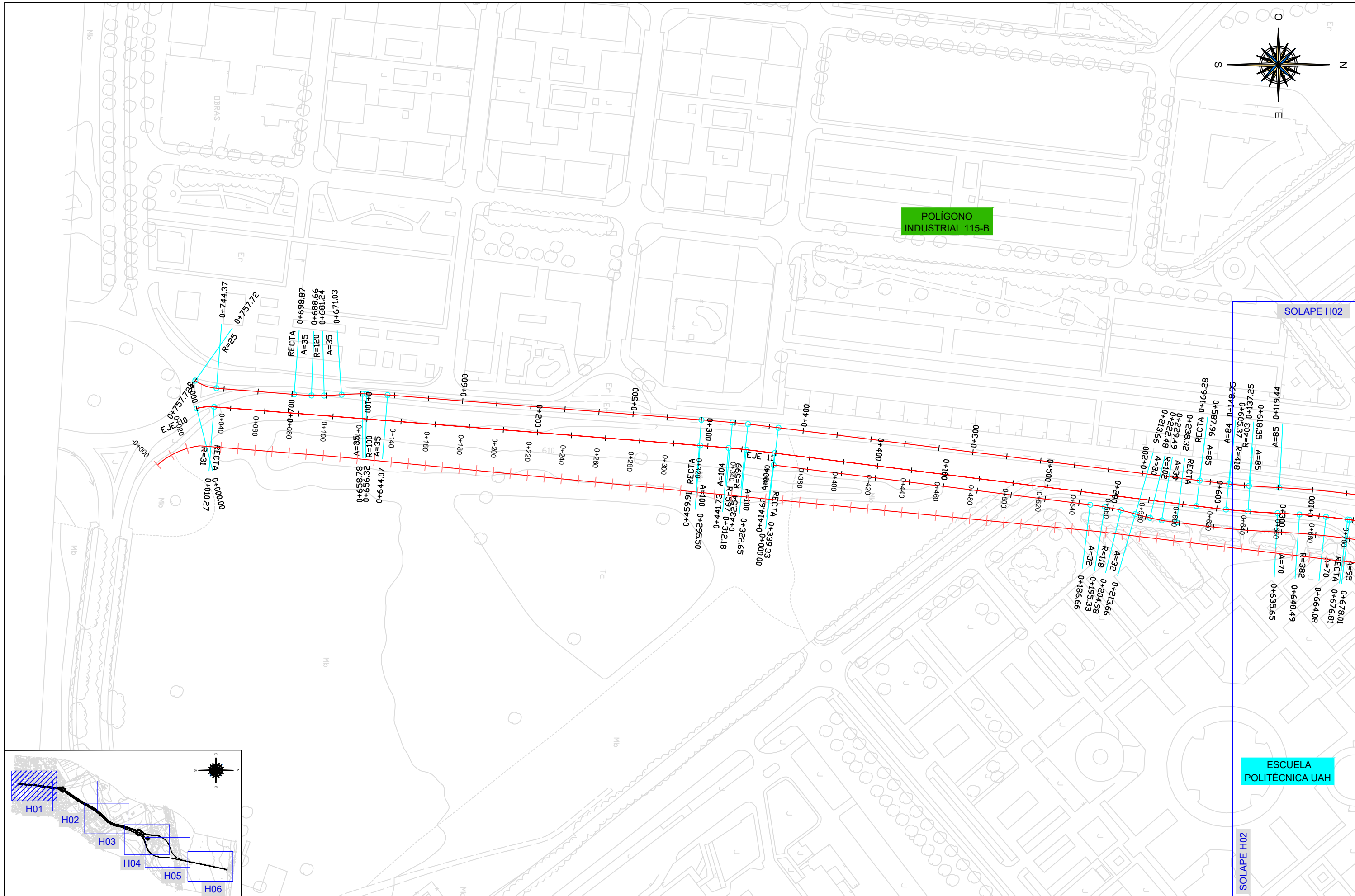




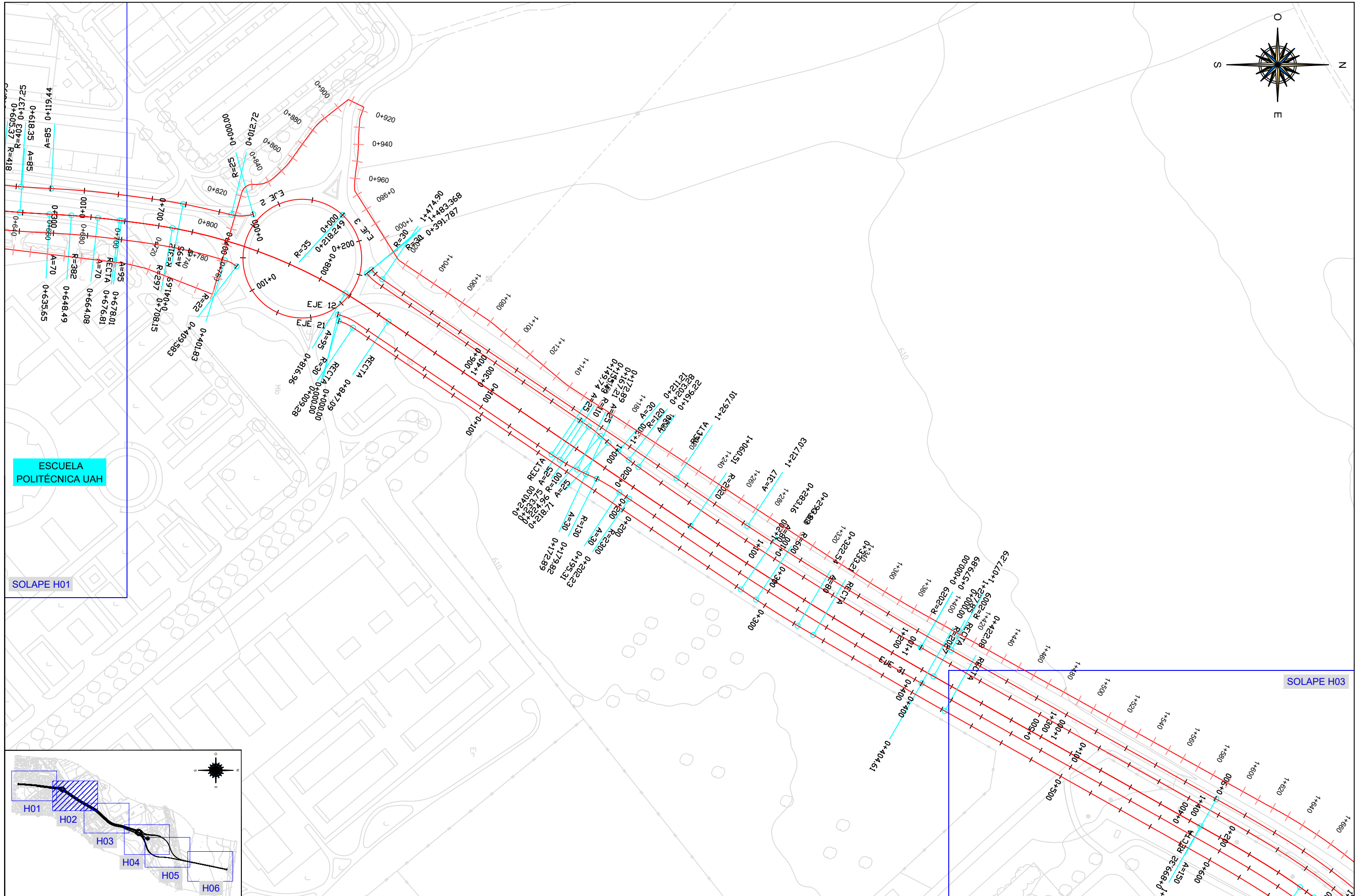




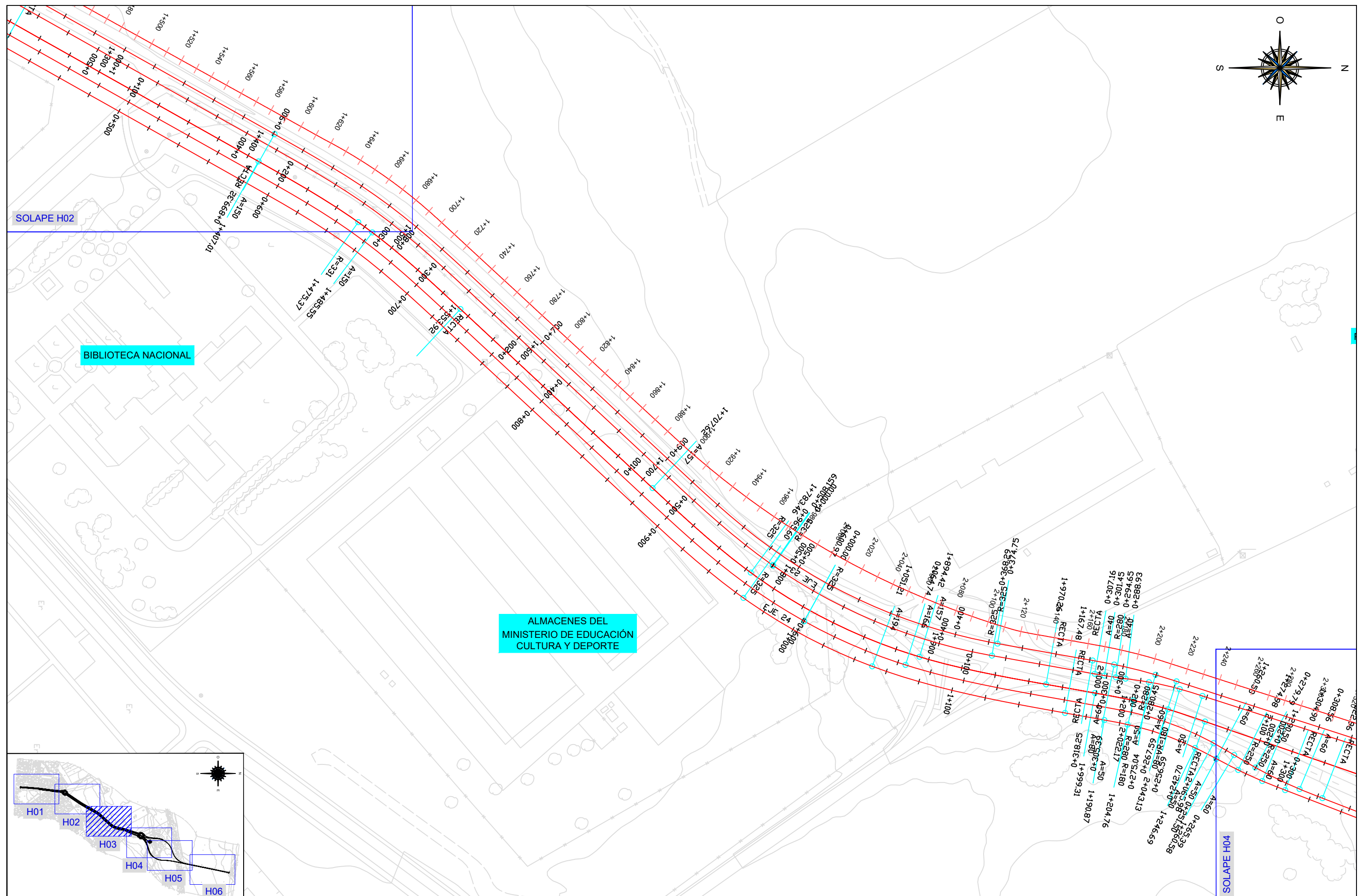




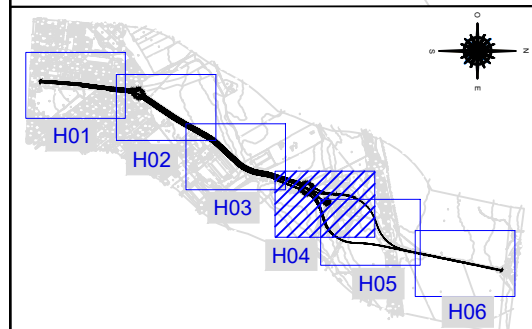
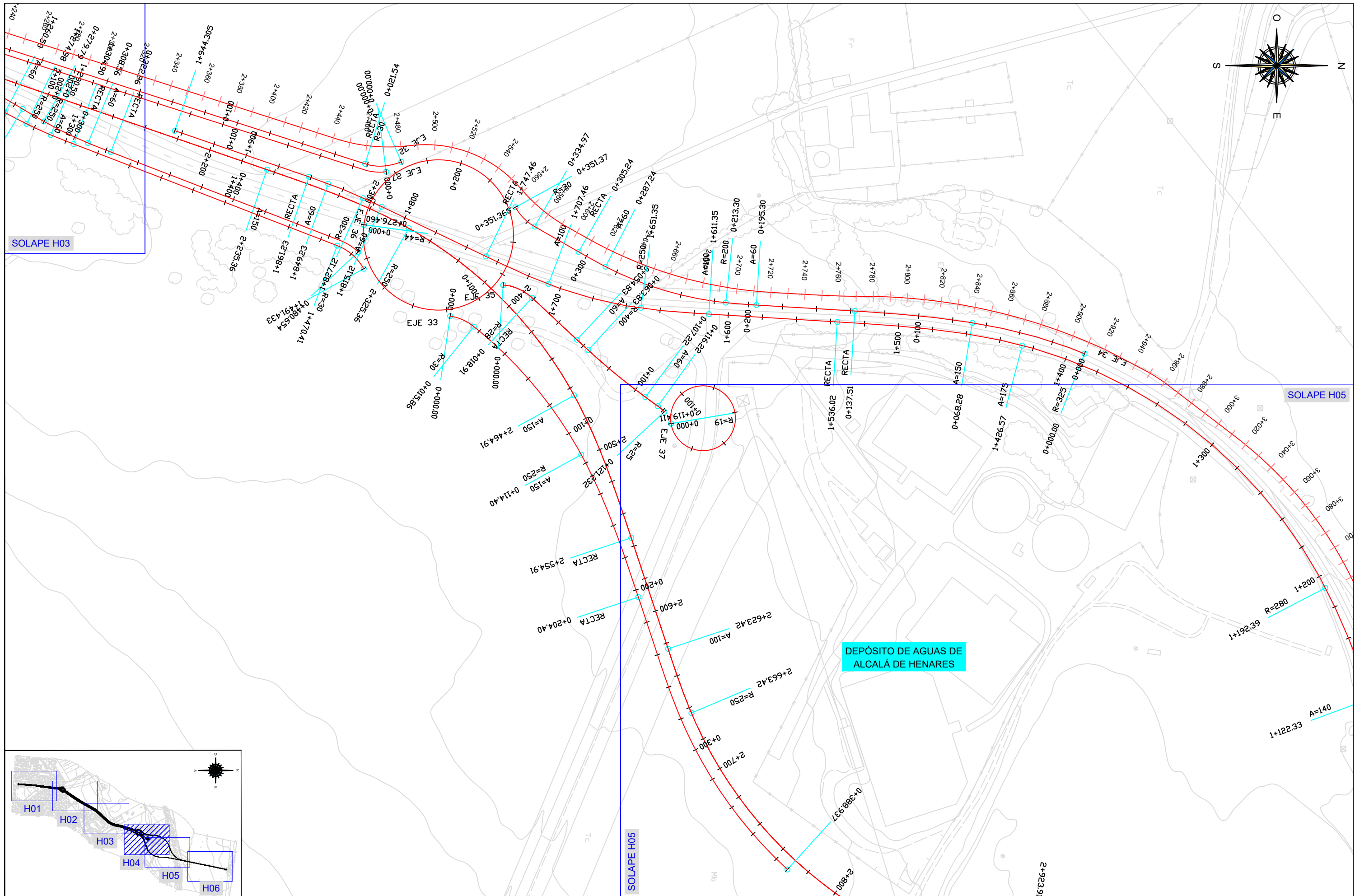




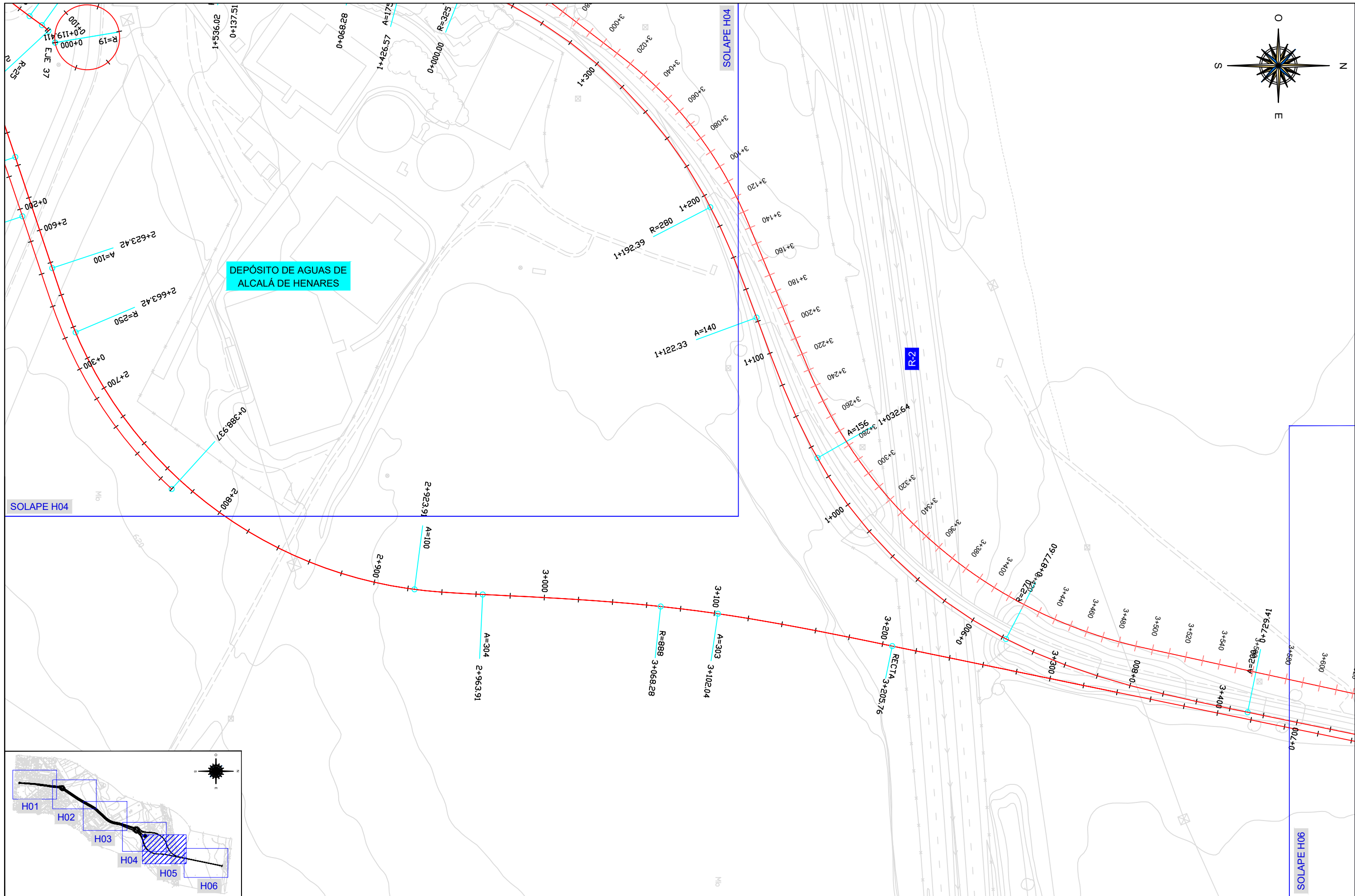




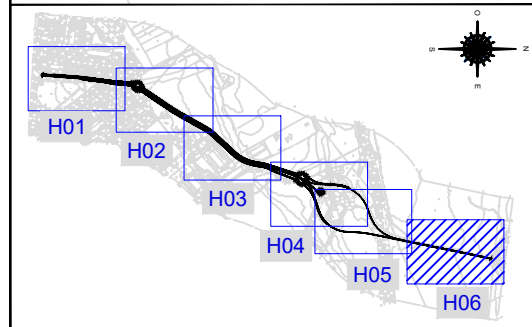
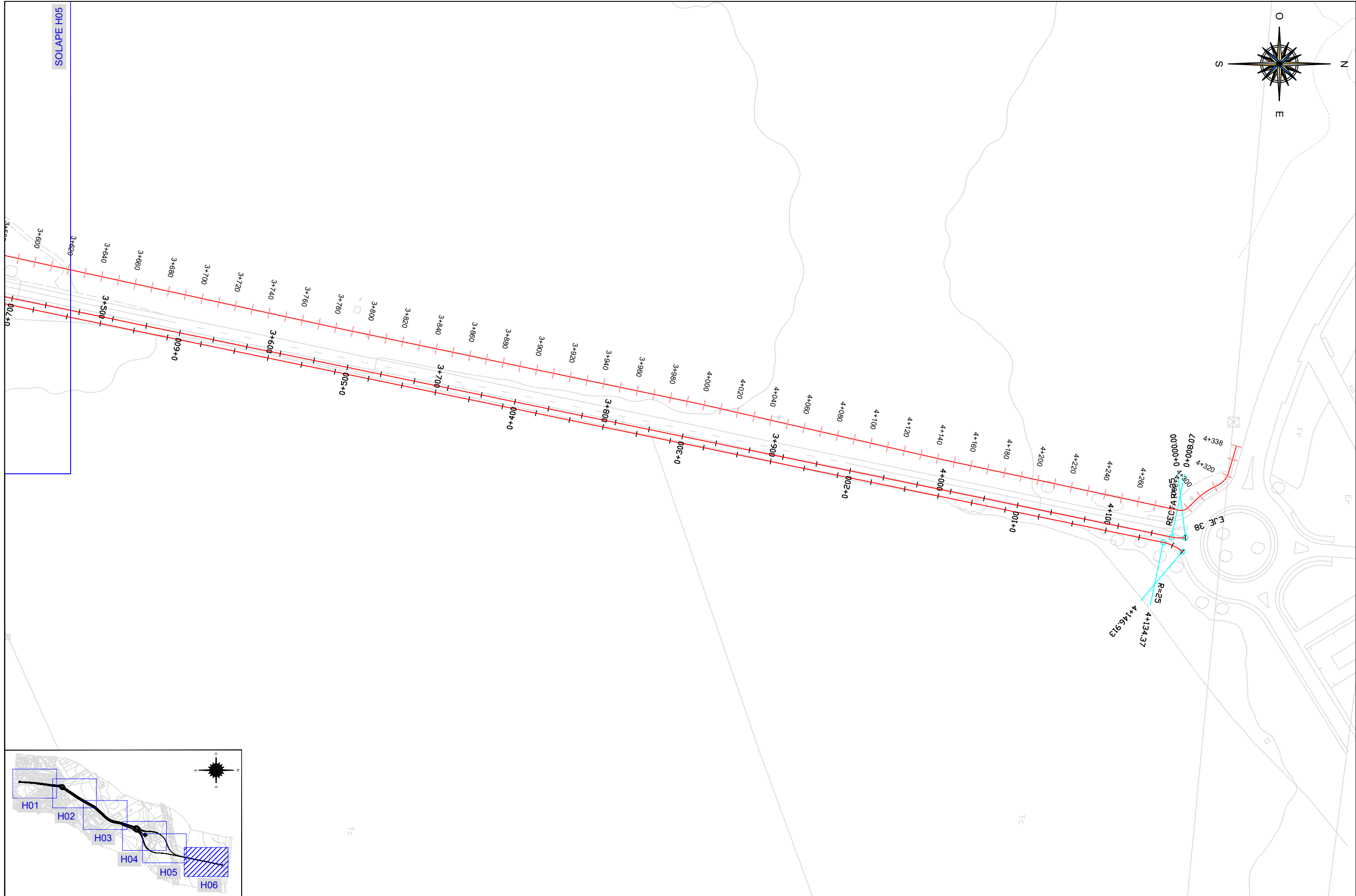





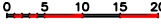




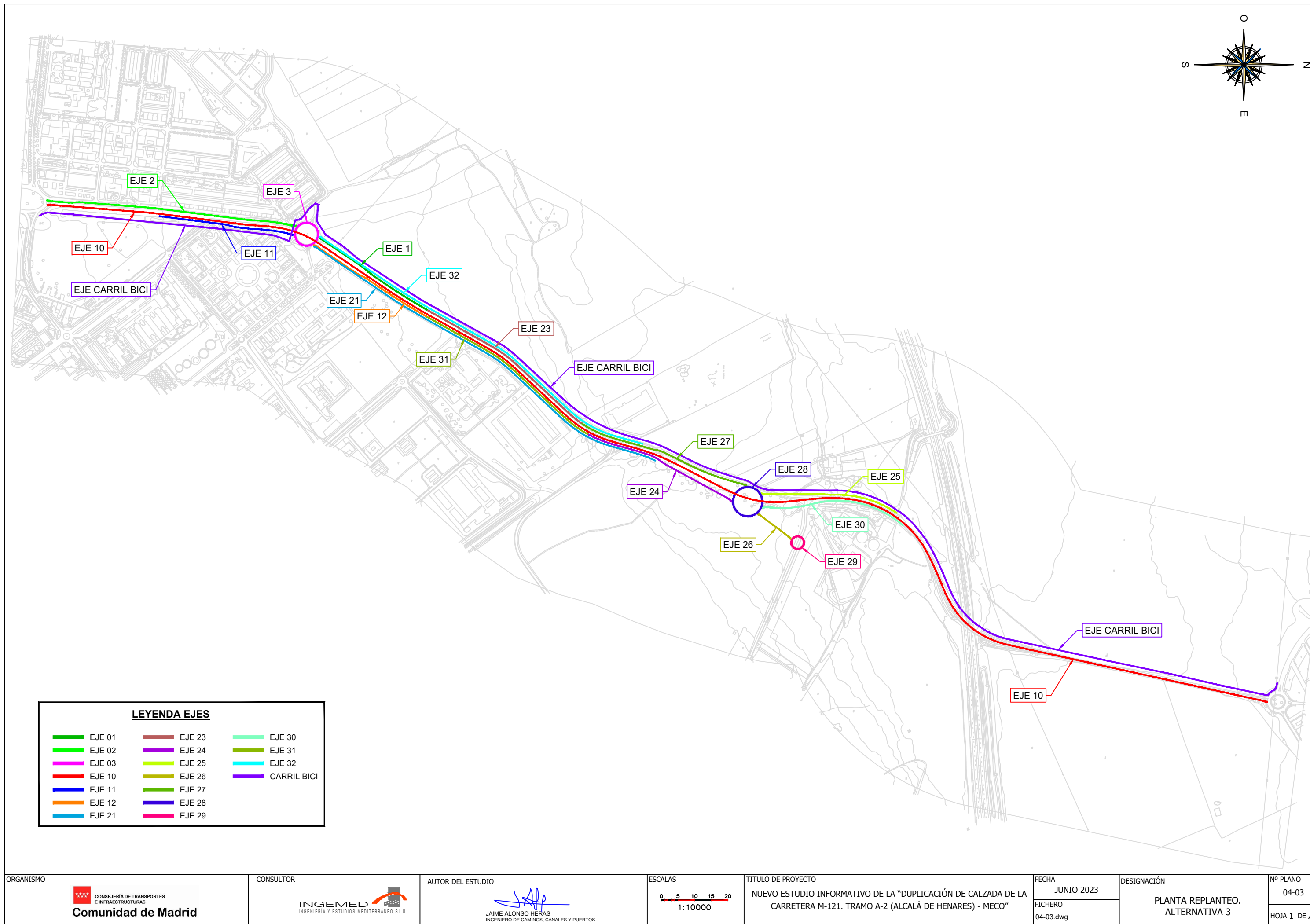






<div>ORGANISMO</div> <div></div>	<div>CONSULTOR</div> <div></div>	<div>AUTOR DEL ESTUDIO</div> <div> JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS</div>	<div>ESCALAS</div> <div> 1: 2000</div>	<div>TITULO DE PROYECTO</div> <div>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</div>	FECHA	DESIGNACIÓN	Nº PLANO
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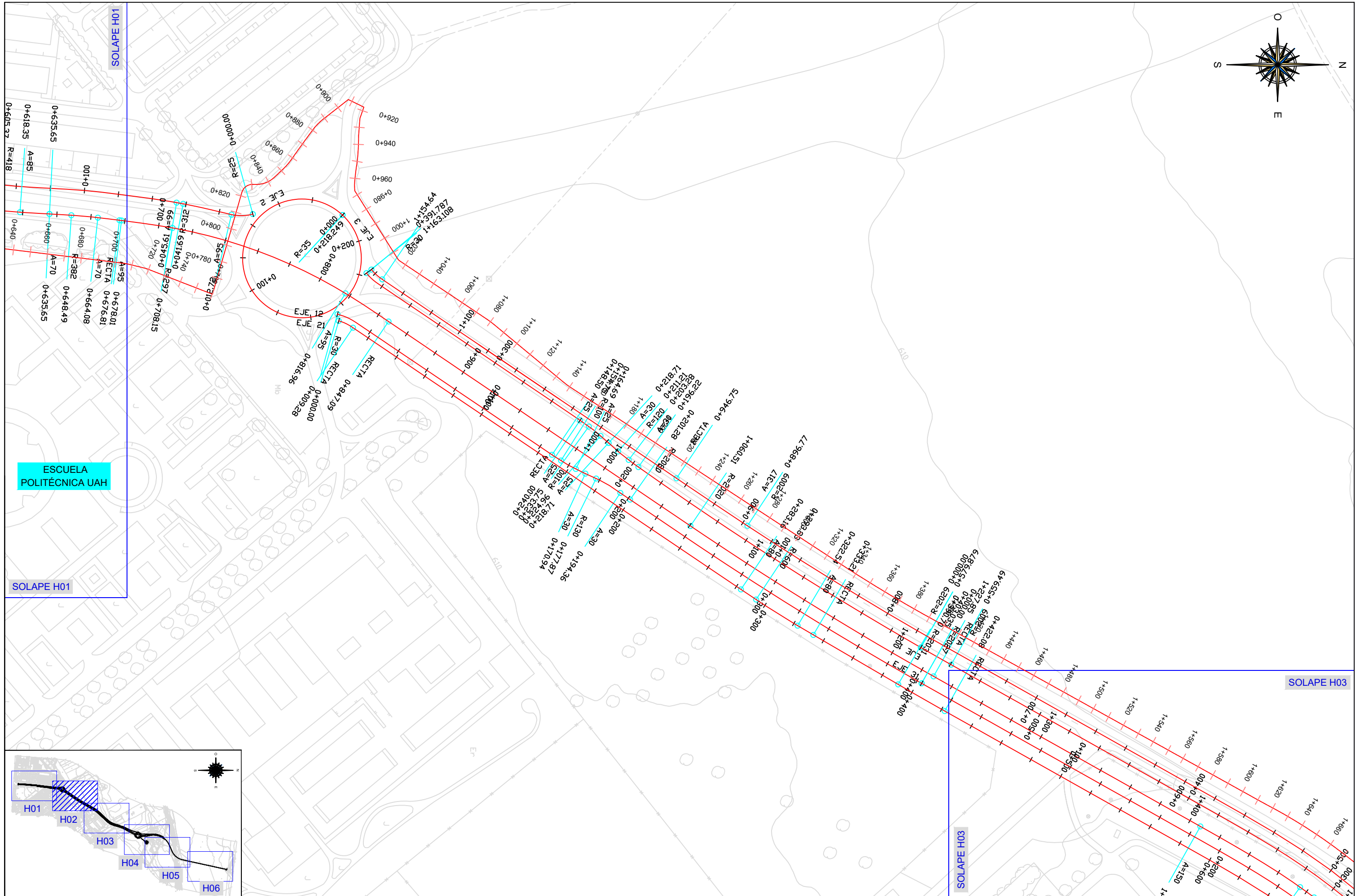




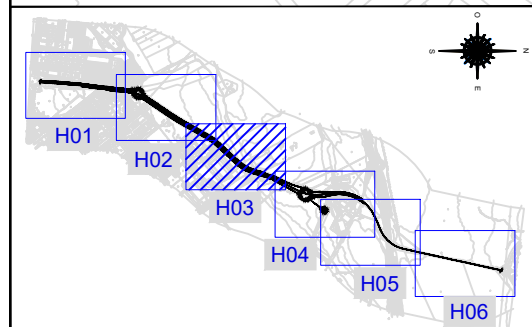
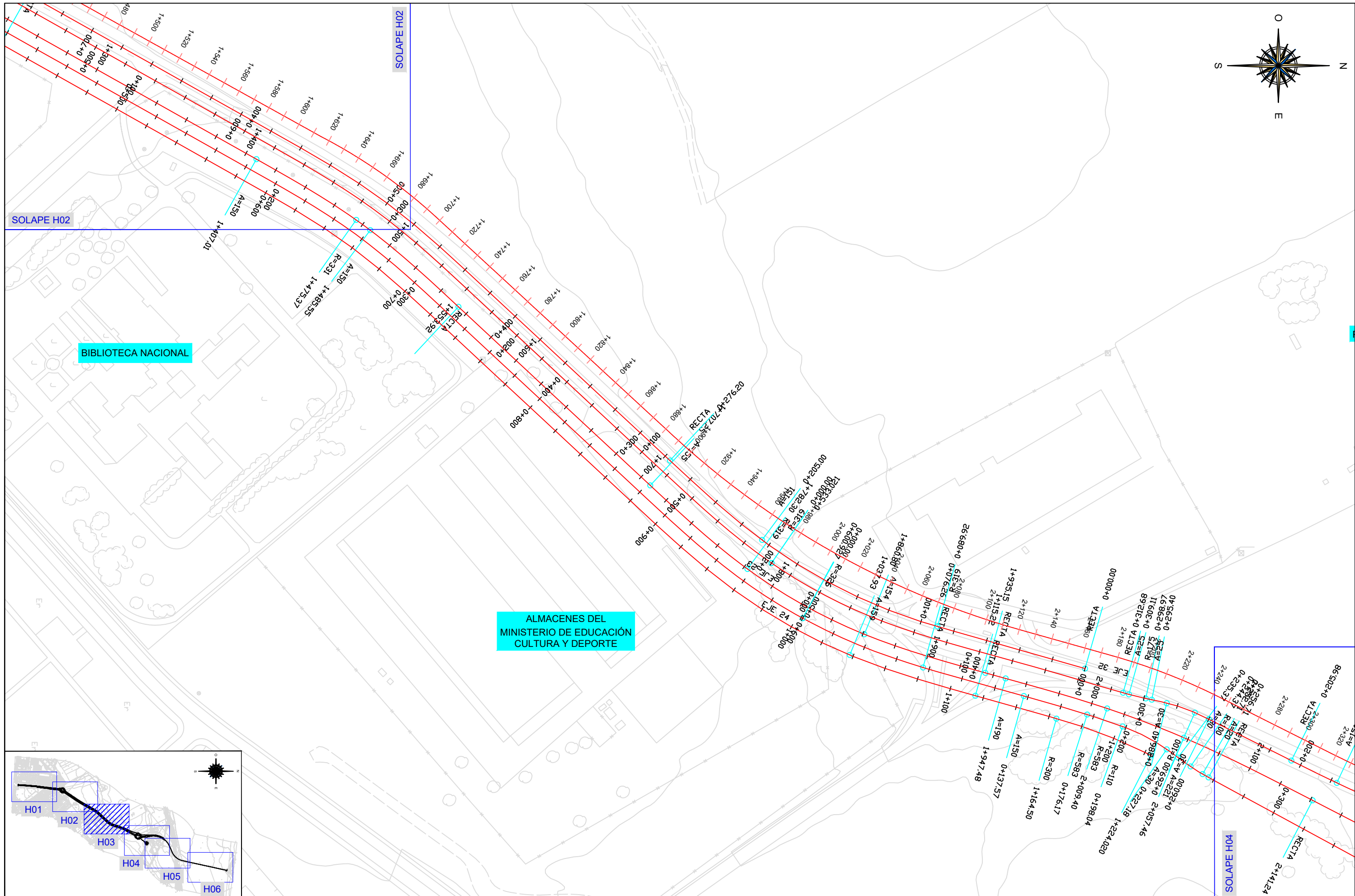





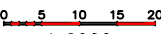








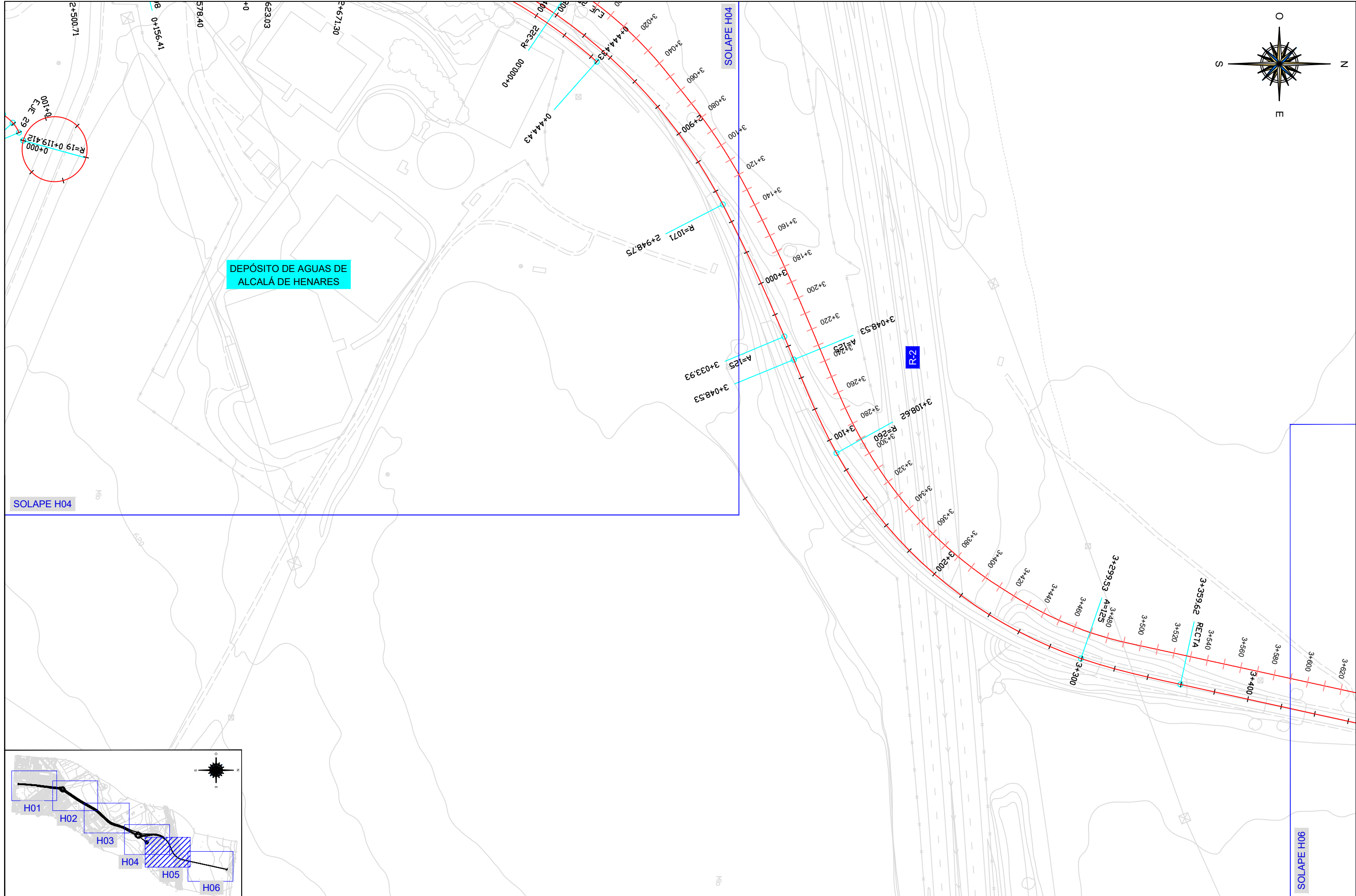


<b>ORGANISMO</b> 	<b>CONSULTOR</b> 	<b>AUTOR DEL ESTUDIO</b>  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 04-03.dwg	<b>DESIGNACIÓN</b> PLANTA REPLANTEO. ALTERNATIVA 3	<b>Nº PLANO</b> 04-03 <b>HOJA 4 DE 7</b>
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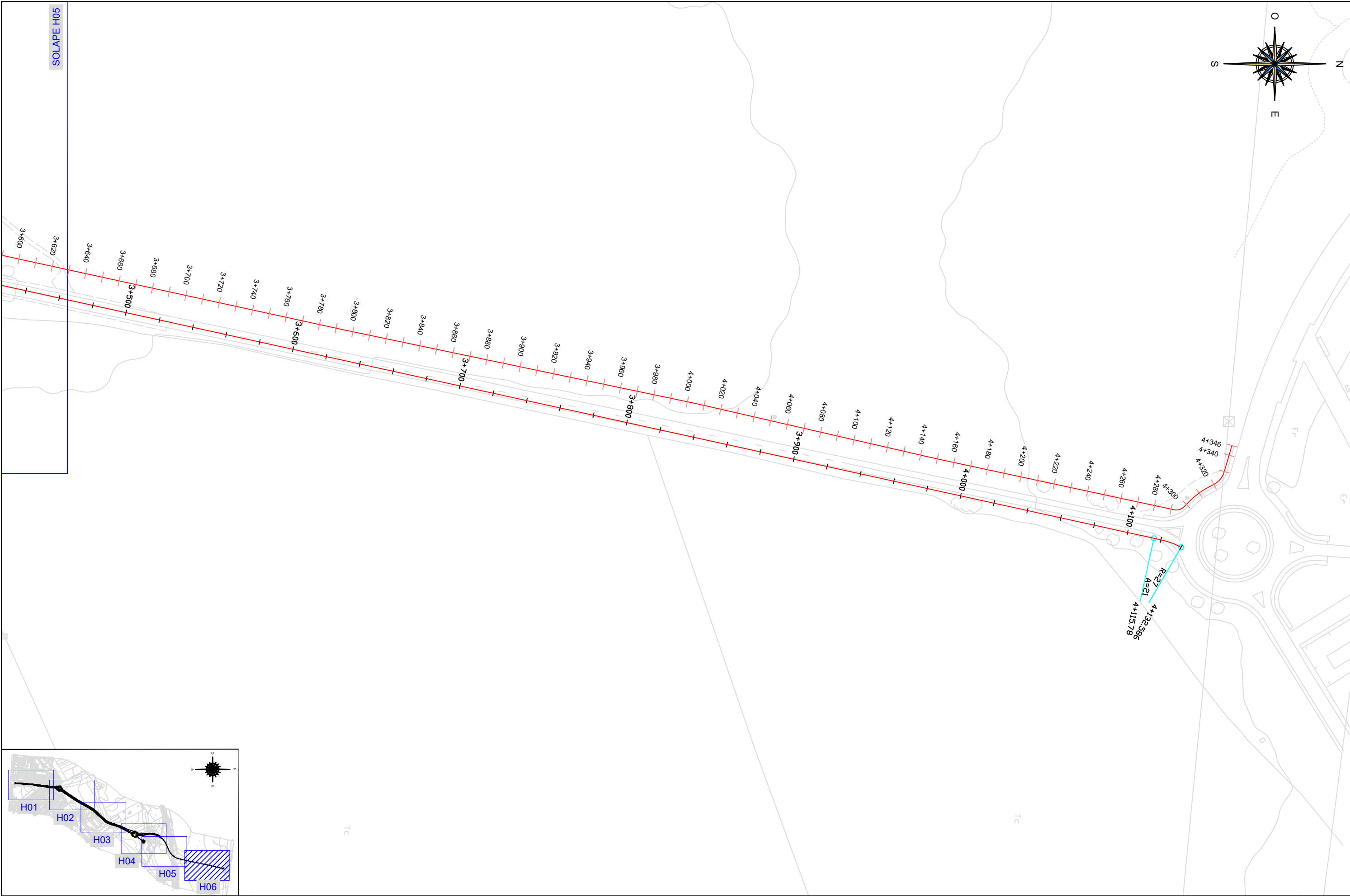




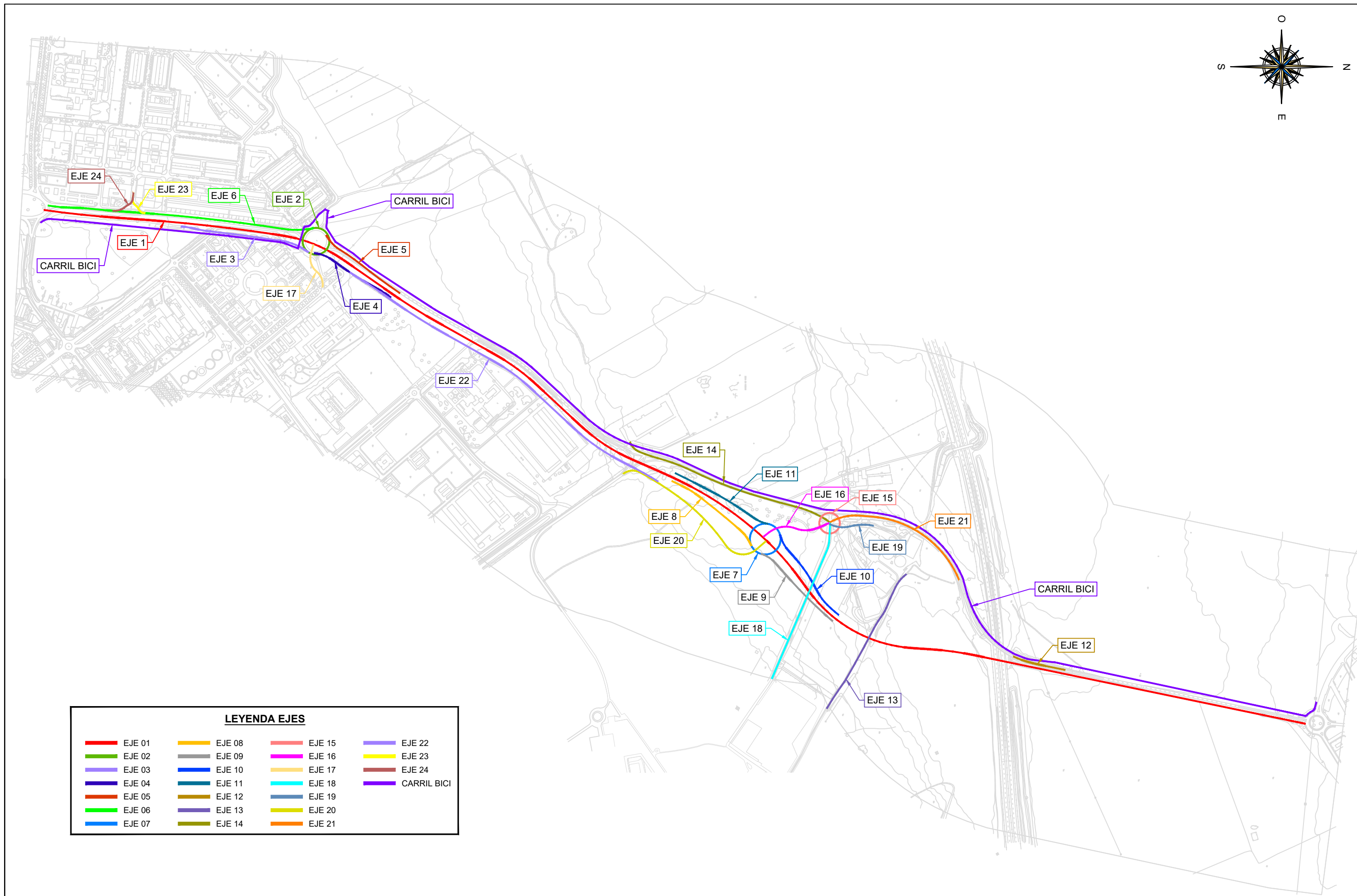




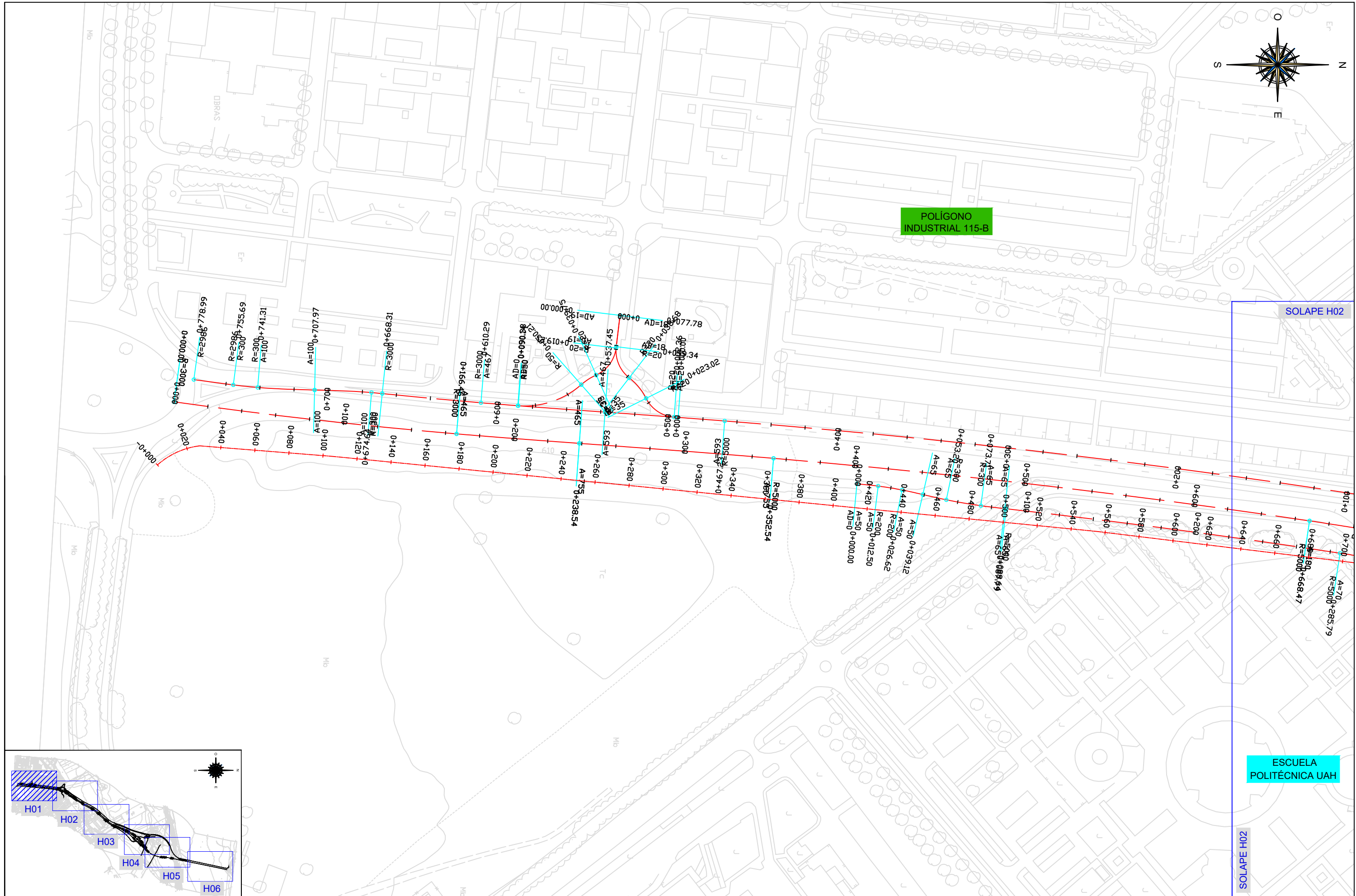








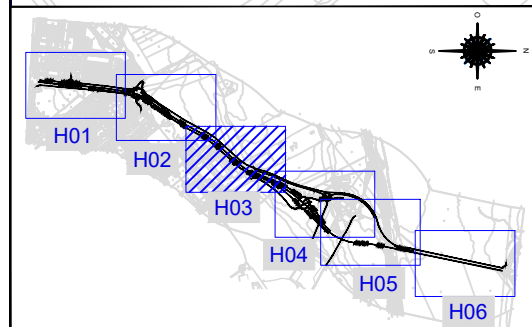
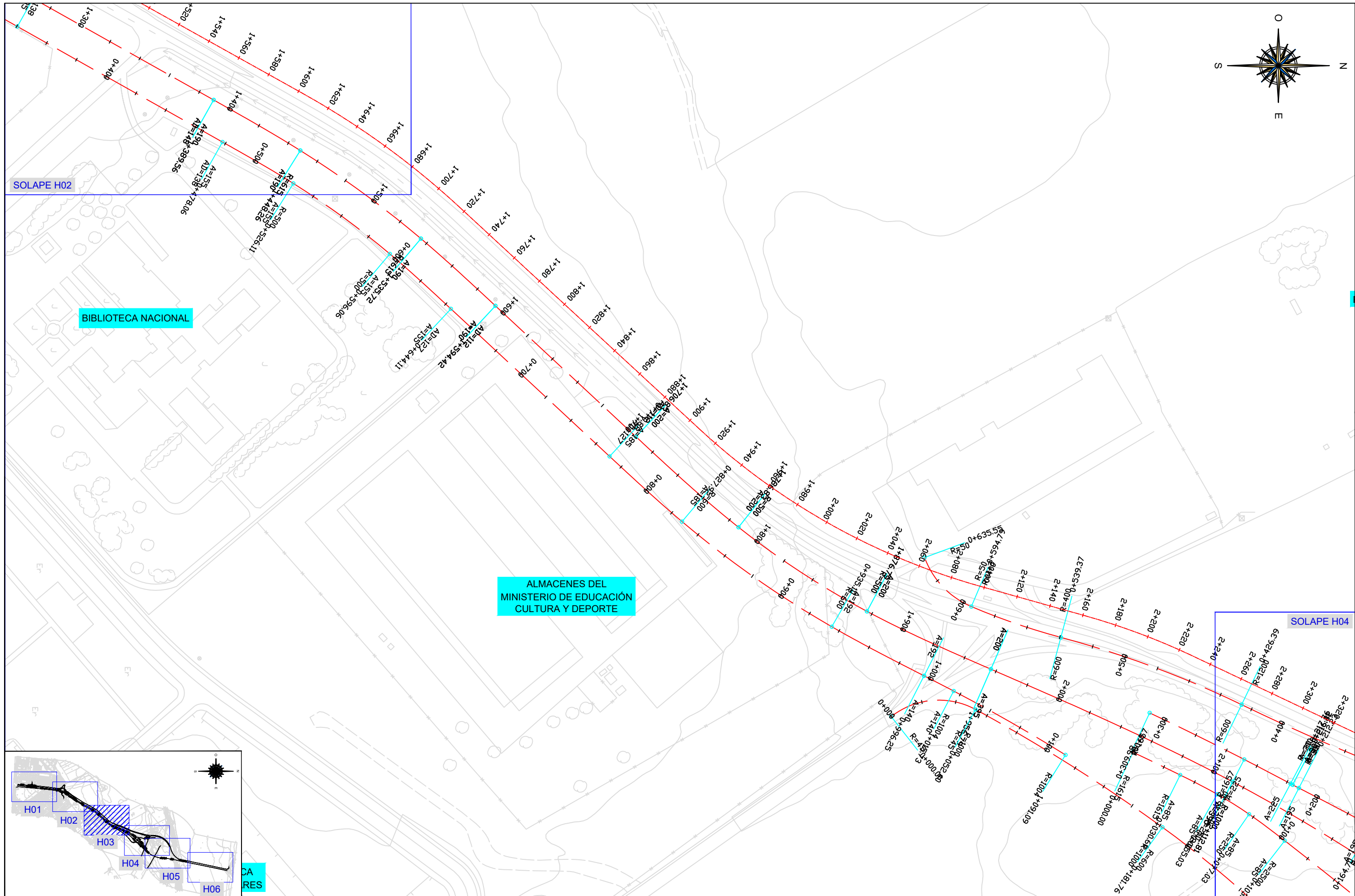








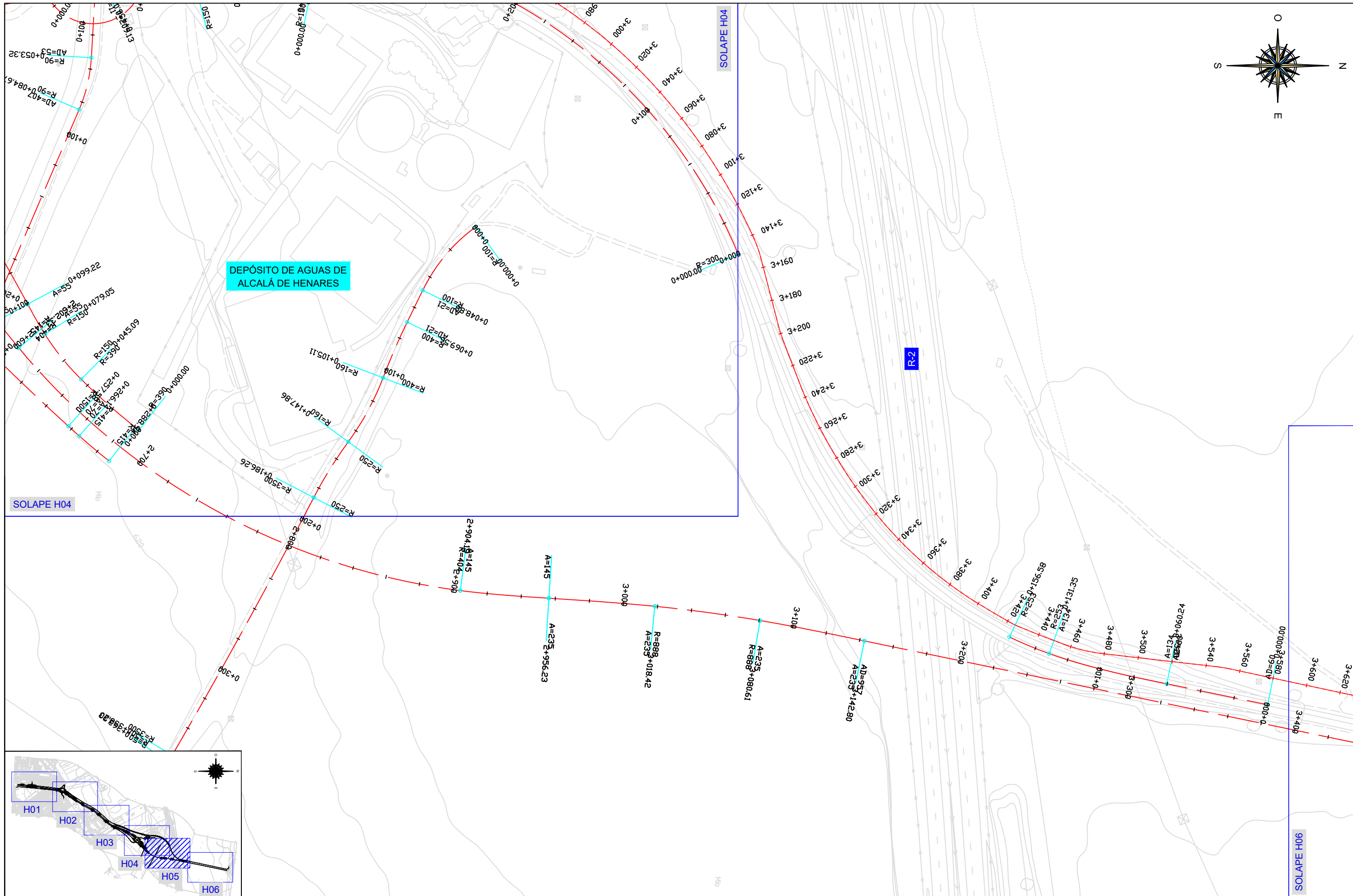




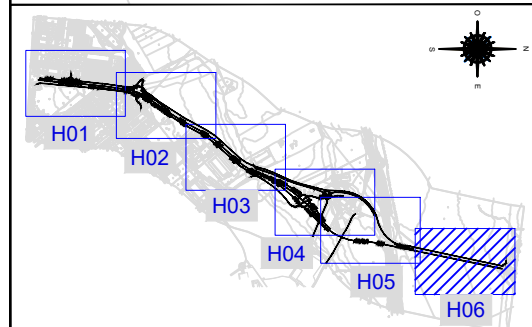
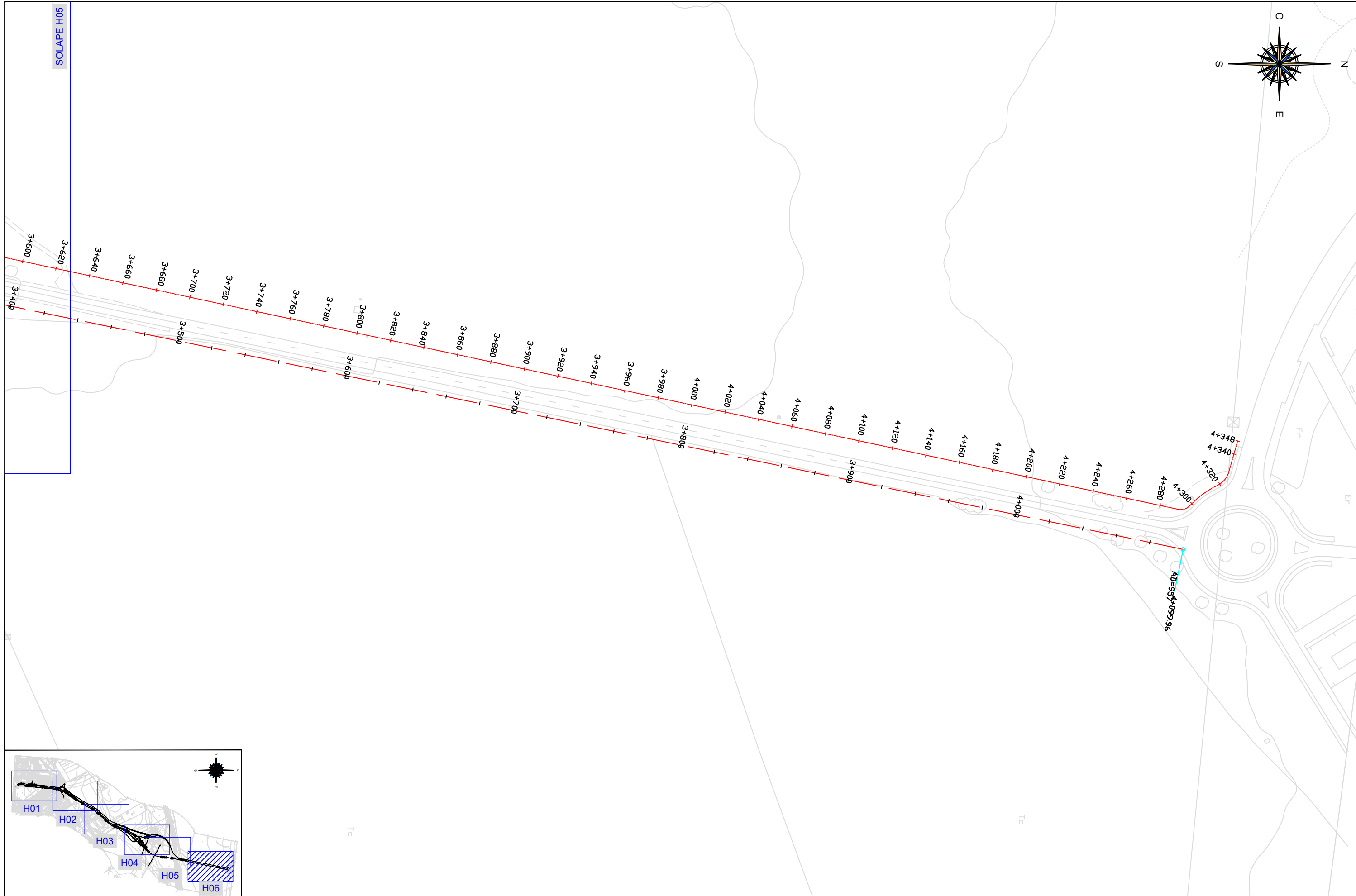










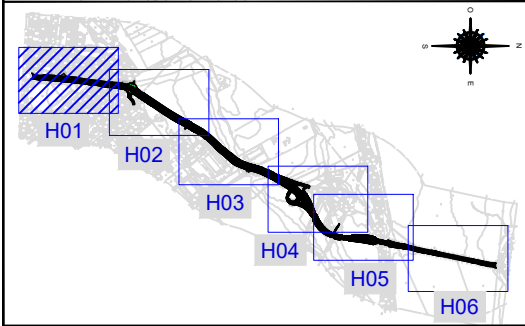
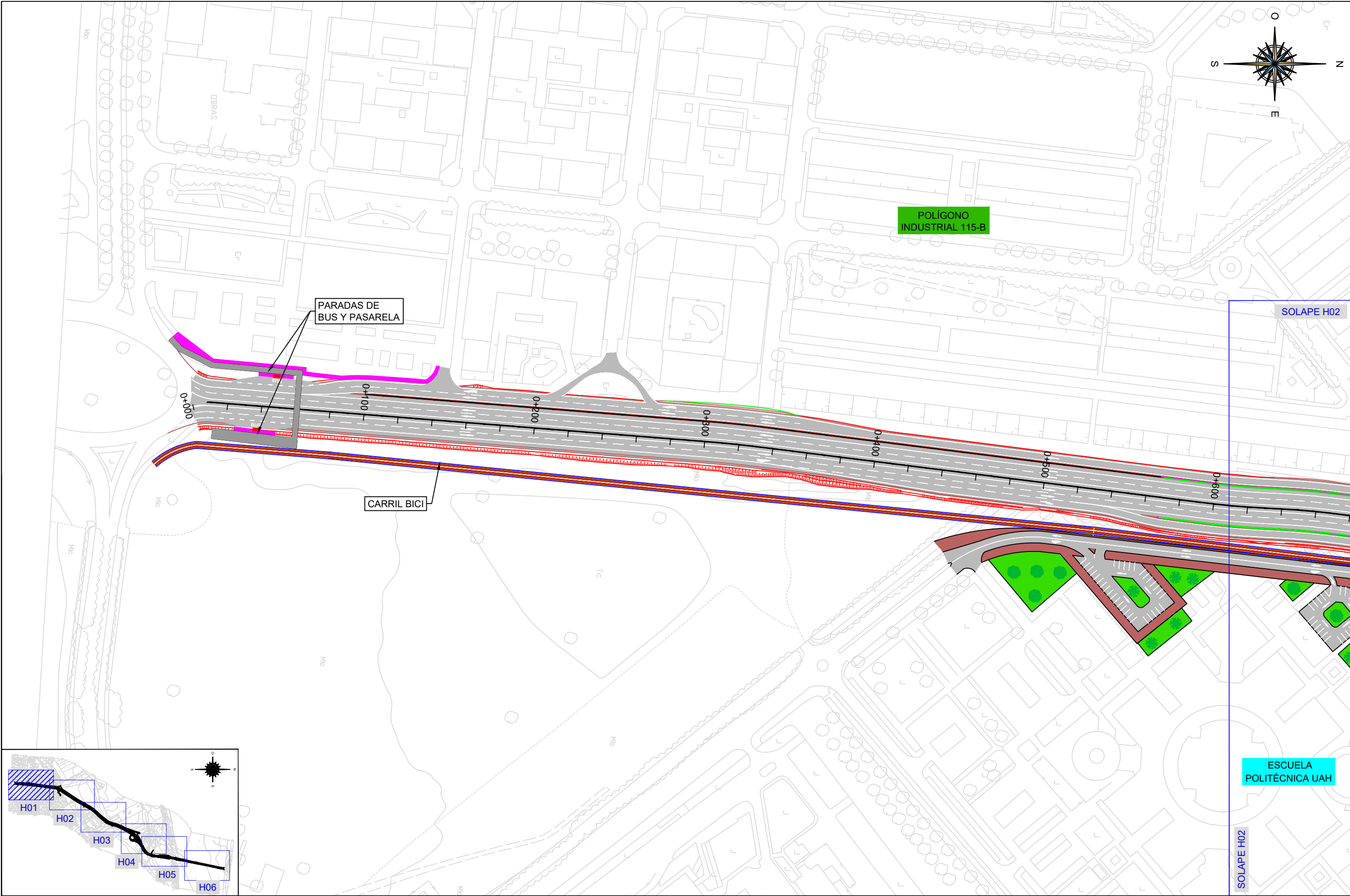





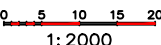




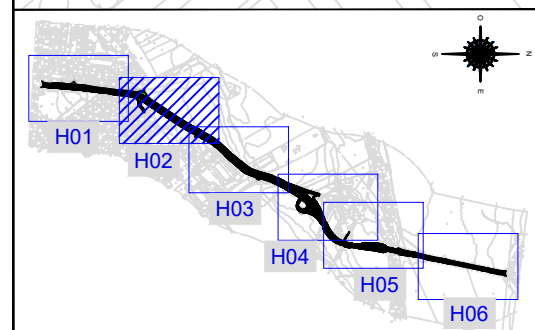
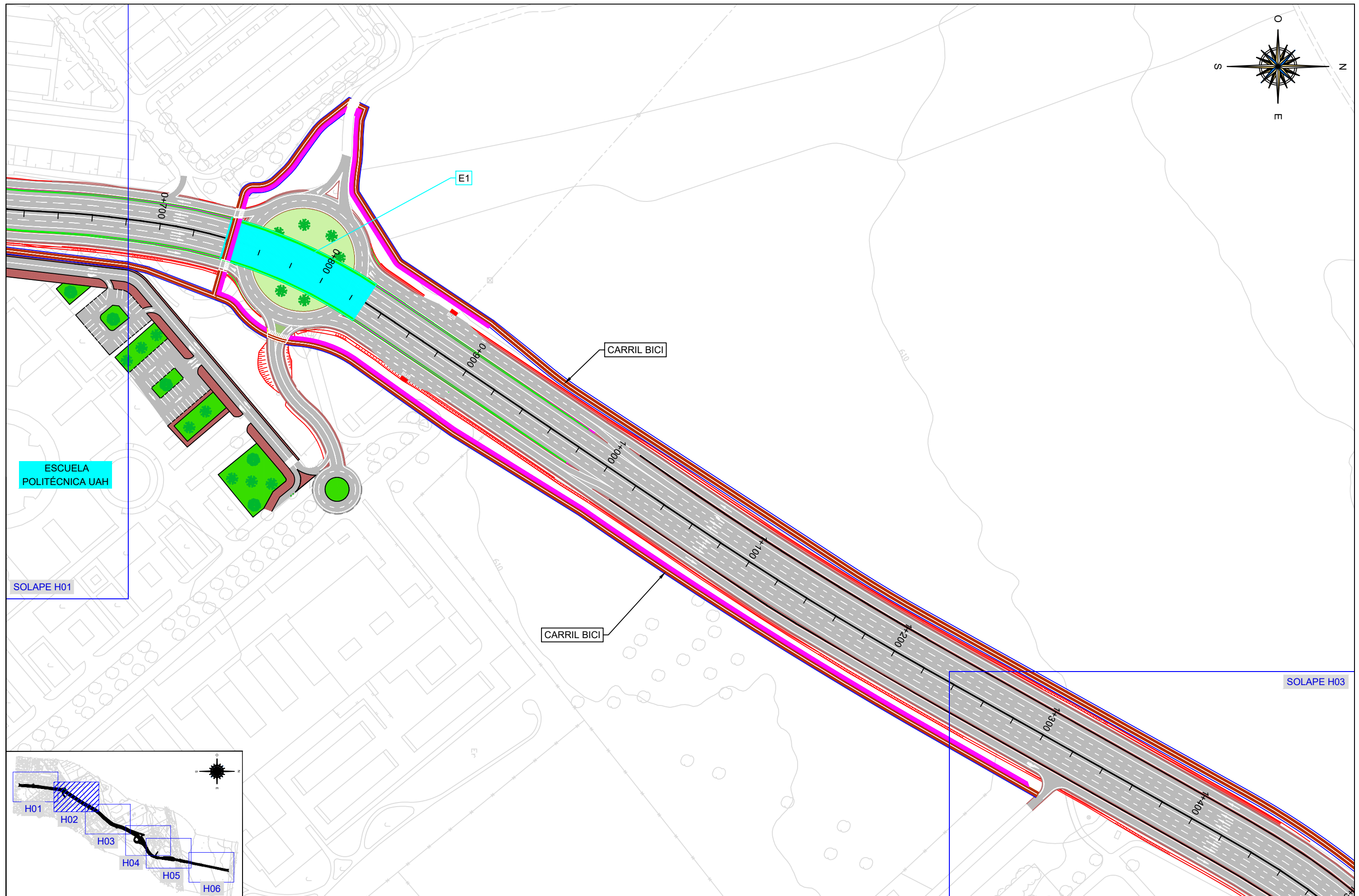
ORGANISMO 	CONSULTOR 	AUTOR DEL ESTUDIO  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	ESCALAS  1: 2000	TÍTULO DE PROYECTO NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	FECHA JUNIO 2023	DESIGNACIÓN PLANTA REPLANTEO. ALTERNATIVA 4	Nº PLANO 04-04 HOJA 7 DE 7
					FICHERO 04-04.dwg		




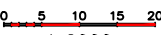


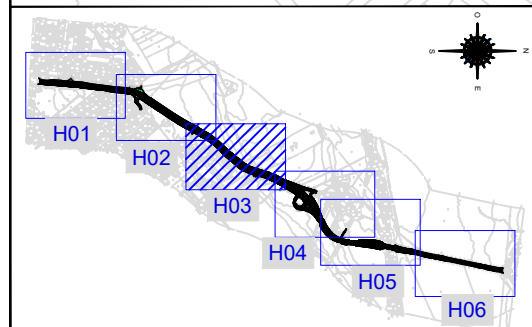
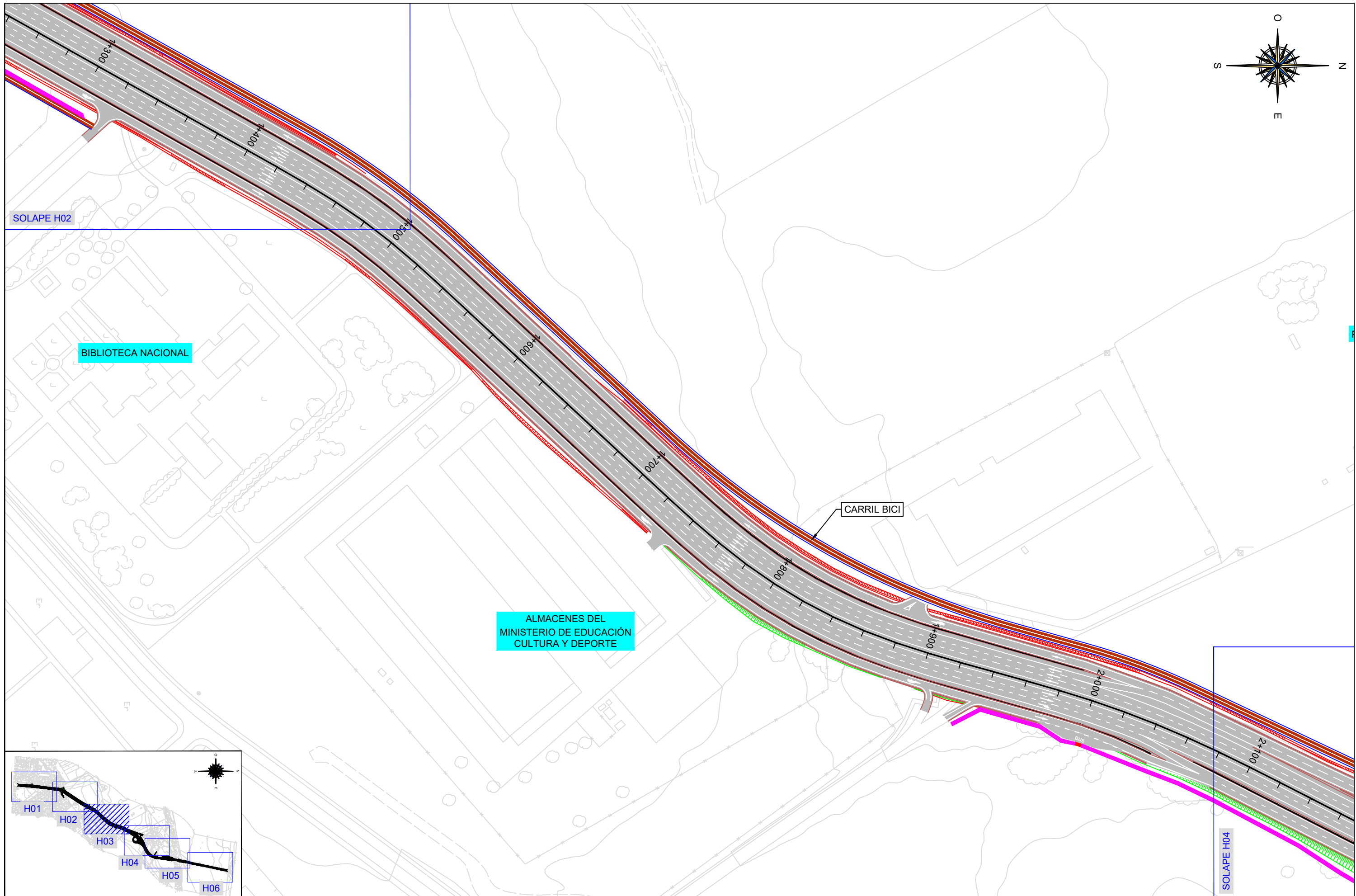




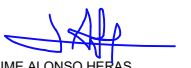
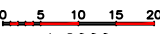
<p>ORGANISMO</p>  <p>CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS <b>Comunidad de Madrid</b></p>	<p>CONSULTOR</p>  <p>INGEMED INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.</p>	<p>AUTOR DEL ESTUDIO</p>  <p>JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS</p>	<p>ESCALAS</p>  <p>0 5 10 15 20 1: 2000</p>	<p>TÍTULO DE PROYECTO</p> <p>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</p>	<p>FECHA</p> <p>JUNIO 2023</p> <p>FICHERO</p> <p>05-01.dwg</p>	<p>DESIGNACIÓN</p> <p>PLANTA GENERAL ALTERNATIVA 1</p>	<p>Nº PLANO</p> <p>05-01</p> <p>HOJA 1 DE 6</p>
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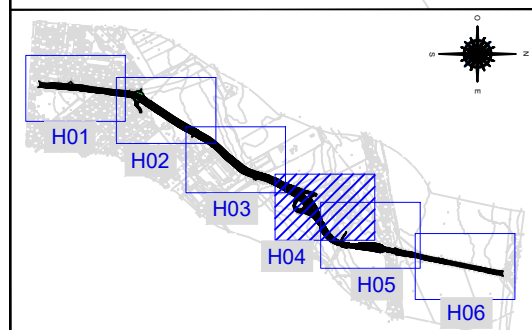
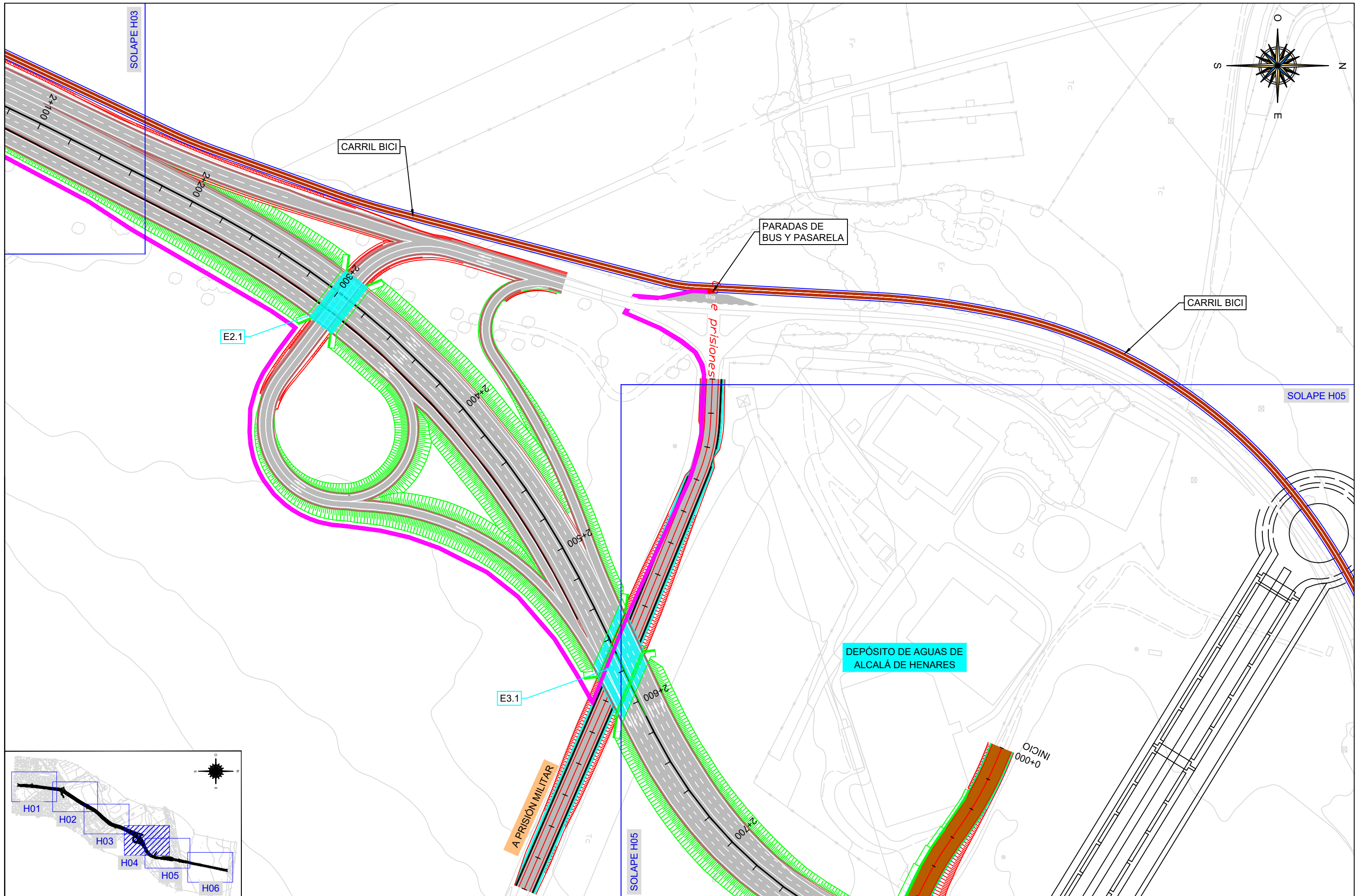


<b>ORGANISMO</b>  <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-01.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 1	<b>Nº PLANO</b> 05-01 HOJA 2 DE 6
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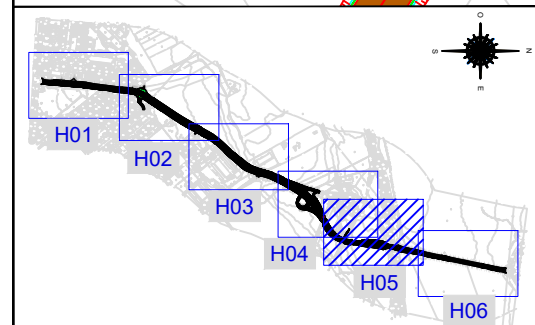
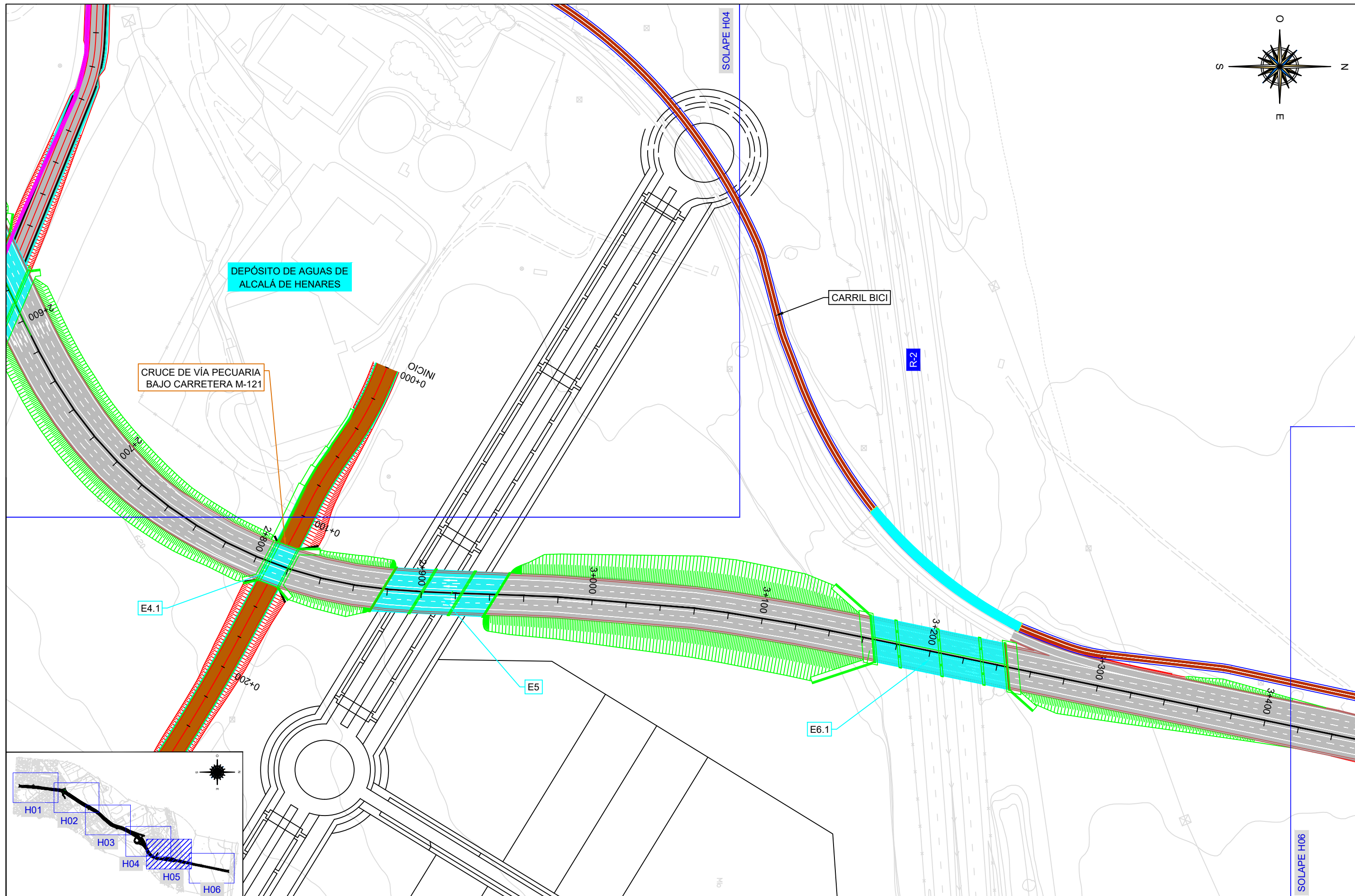


<b>ORGANISMO</b>  <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-01.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 1	<b>Nº PLANO</b> 05-01 <b>HOJA 3 DE 6</b>
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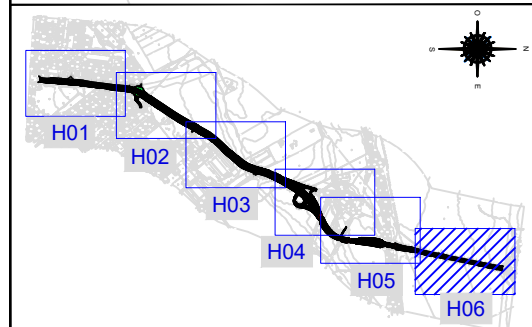
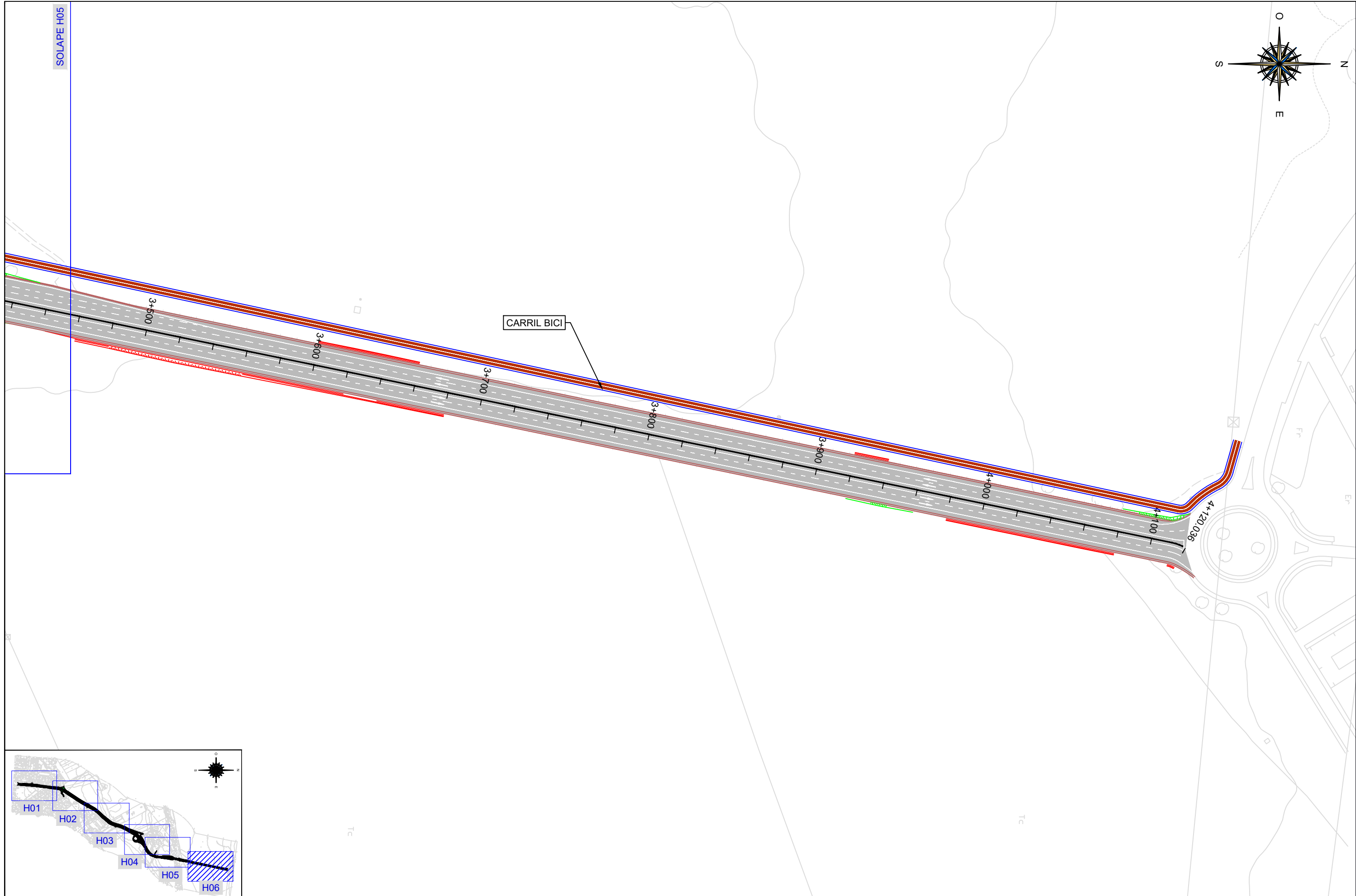


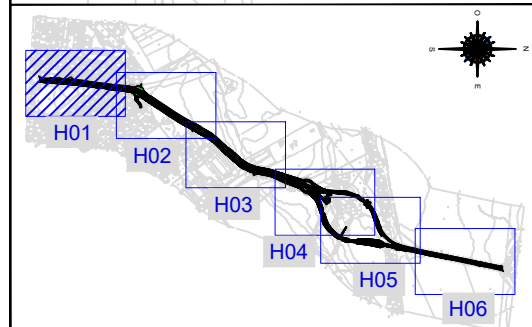
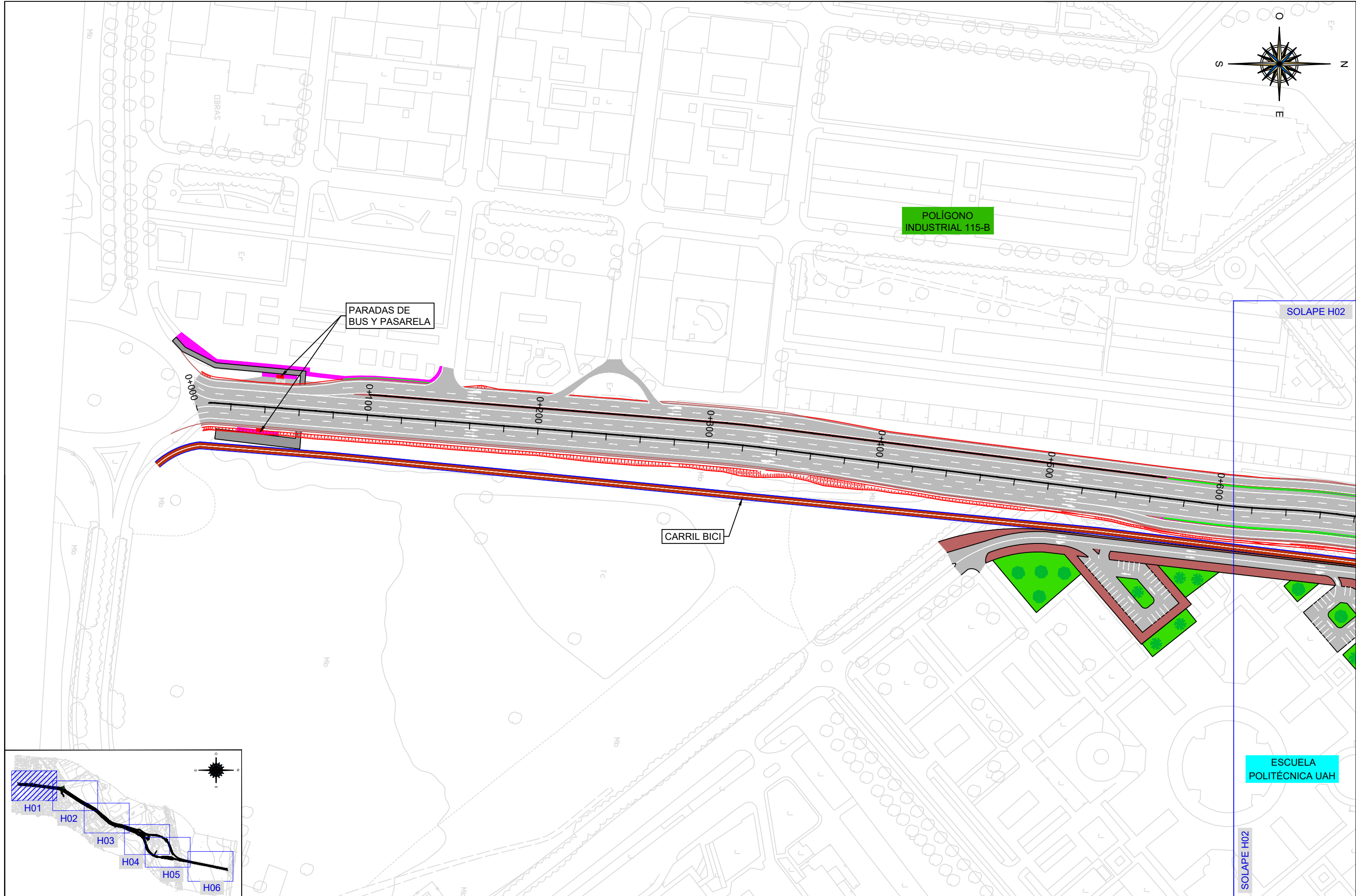





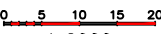


<p>ORGANISMO</p> <p>CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS</p> <p>Comunidad de Madrid</p>	<p>CONSULTOR</p> <p>INGEMED</p> <p>INGENIERÍA Y ESTUDIOS MEDITERRANEO, S.L.U.</p>	<p>AUTOR DEL ESTUDIO</p> <p>JAIME ALONSO HERAS</p> <p>INGENIERO DE CAMINOS, CANALES Y PUERTOS</p>	<p>ESCALAS</p> <p>0 5 10 15 20</p> <p>1: 2000</p>	<p>TÍTULO DE PROYECTO</p> <p>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</p>	<p>FECHA</p> <p>JUNIO 2023</p> <p>FICHERO</p> <p>05-01.dwg</p>	<p>DESIGNACIÓN</p> <p>PLANTA GENERAL ALTERNATIVA 1</p>	<p>Nº PLANO</p> <p>05-01</p> <p>HOJA 5 DE 6</p>
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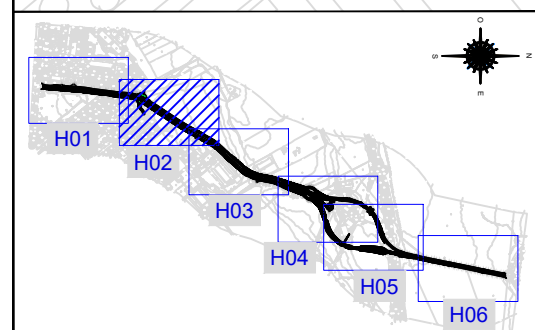
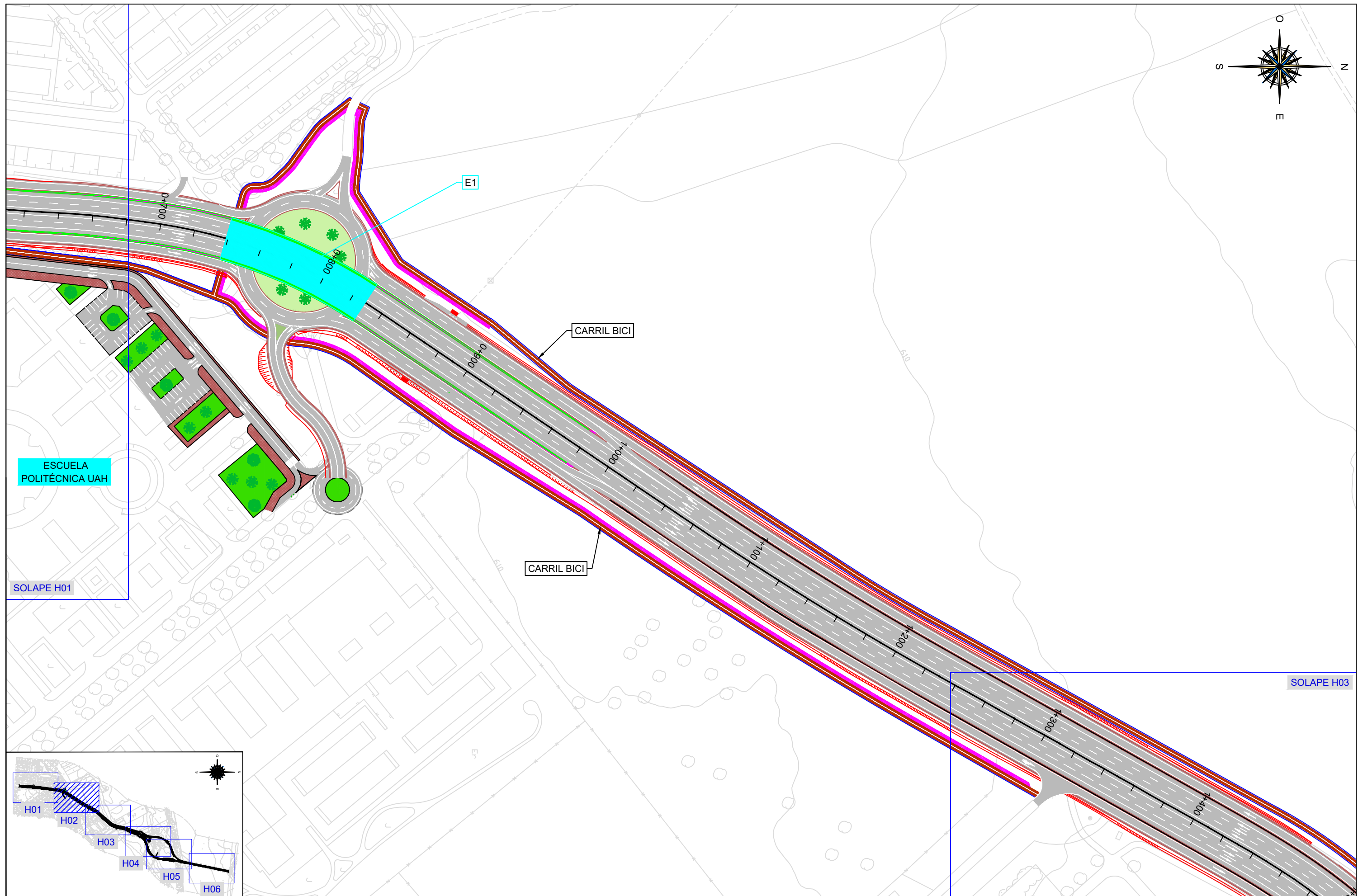




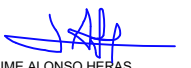
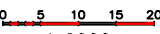


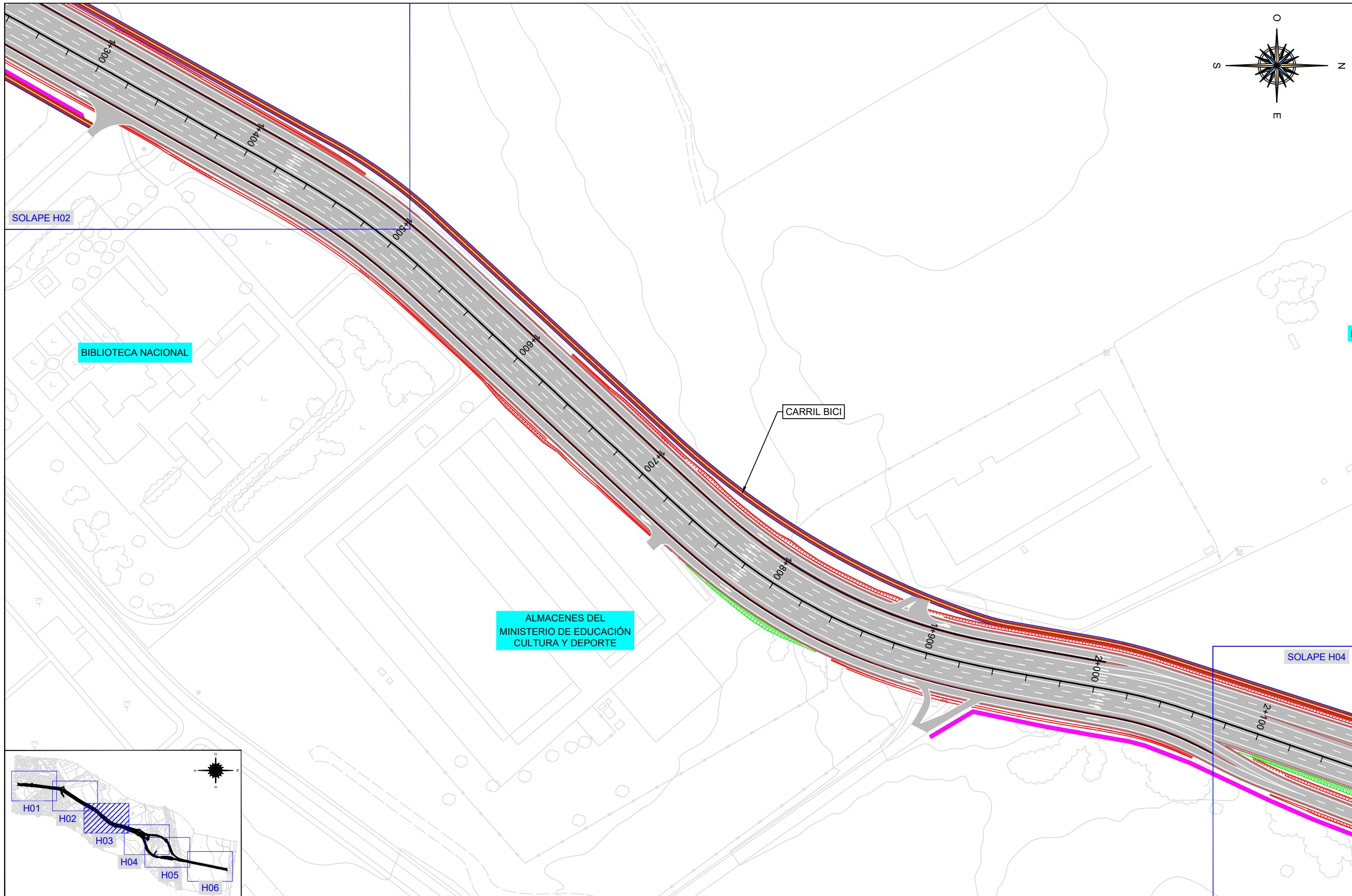


<b>ORGANISMO</b>  <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  0 5 10 15 20 1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-02.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 2	<b>Nº PLANO</b> 05-02 <b>HOJA 1 DE 6</b>
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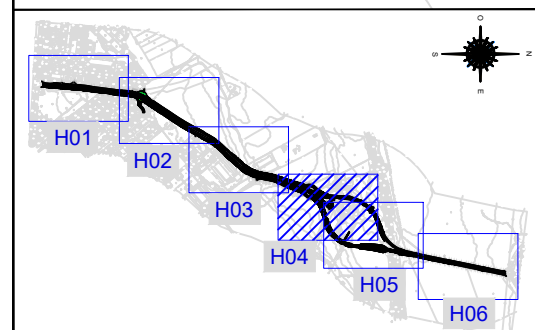
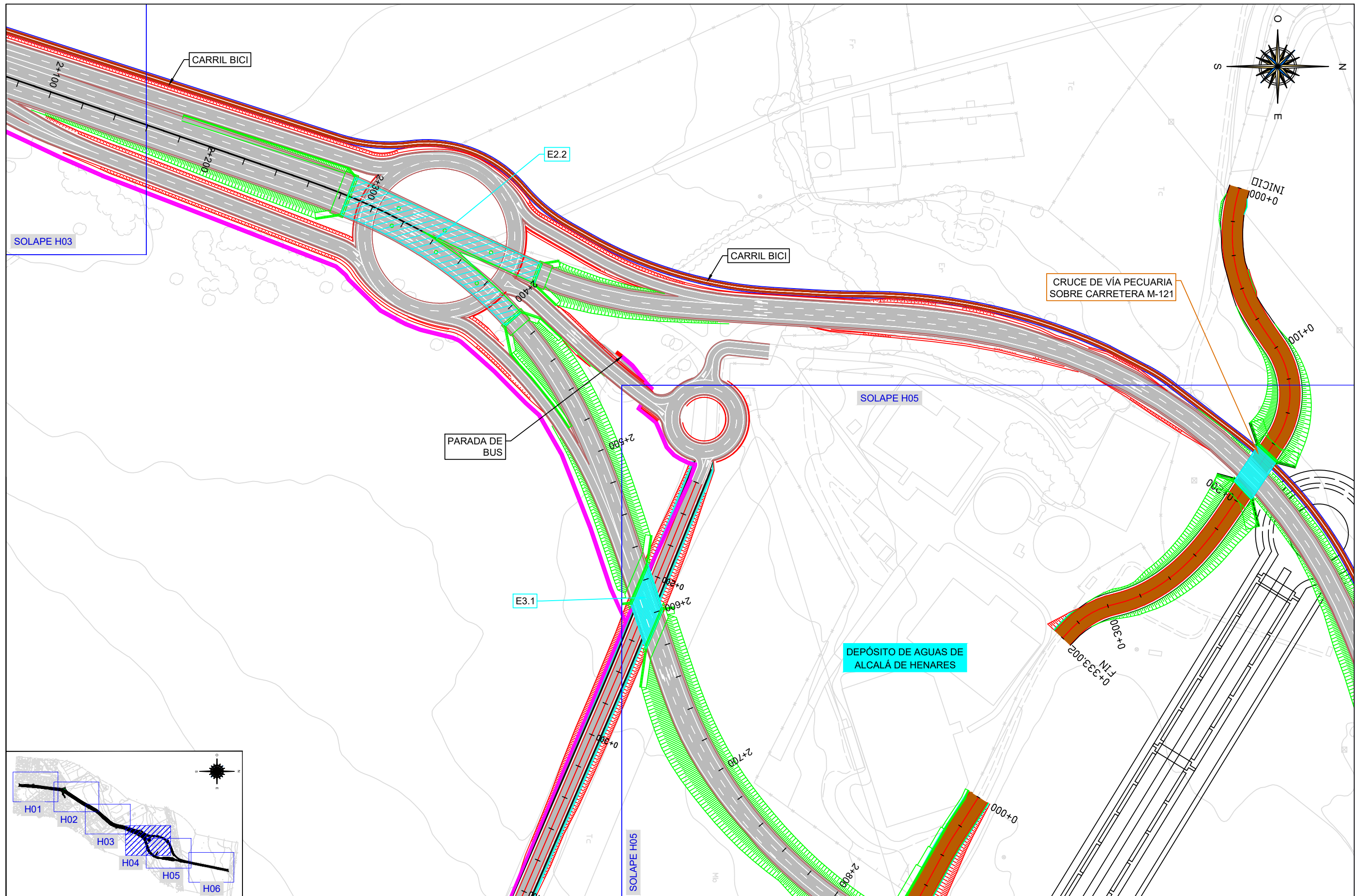





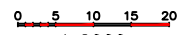


<b>ORGANISMO</b>  <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-02.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 2	<b>Nº PLANO</b> 05-02 <b>HOJA 2 DE 6</b>
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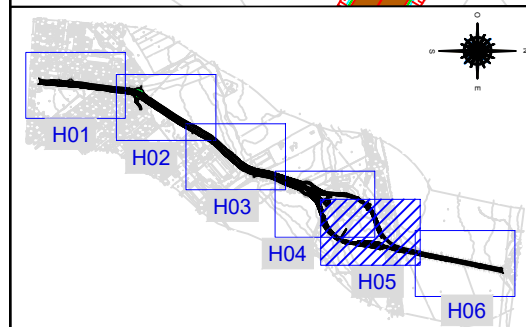
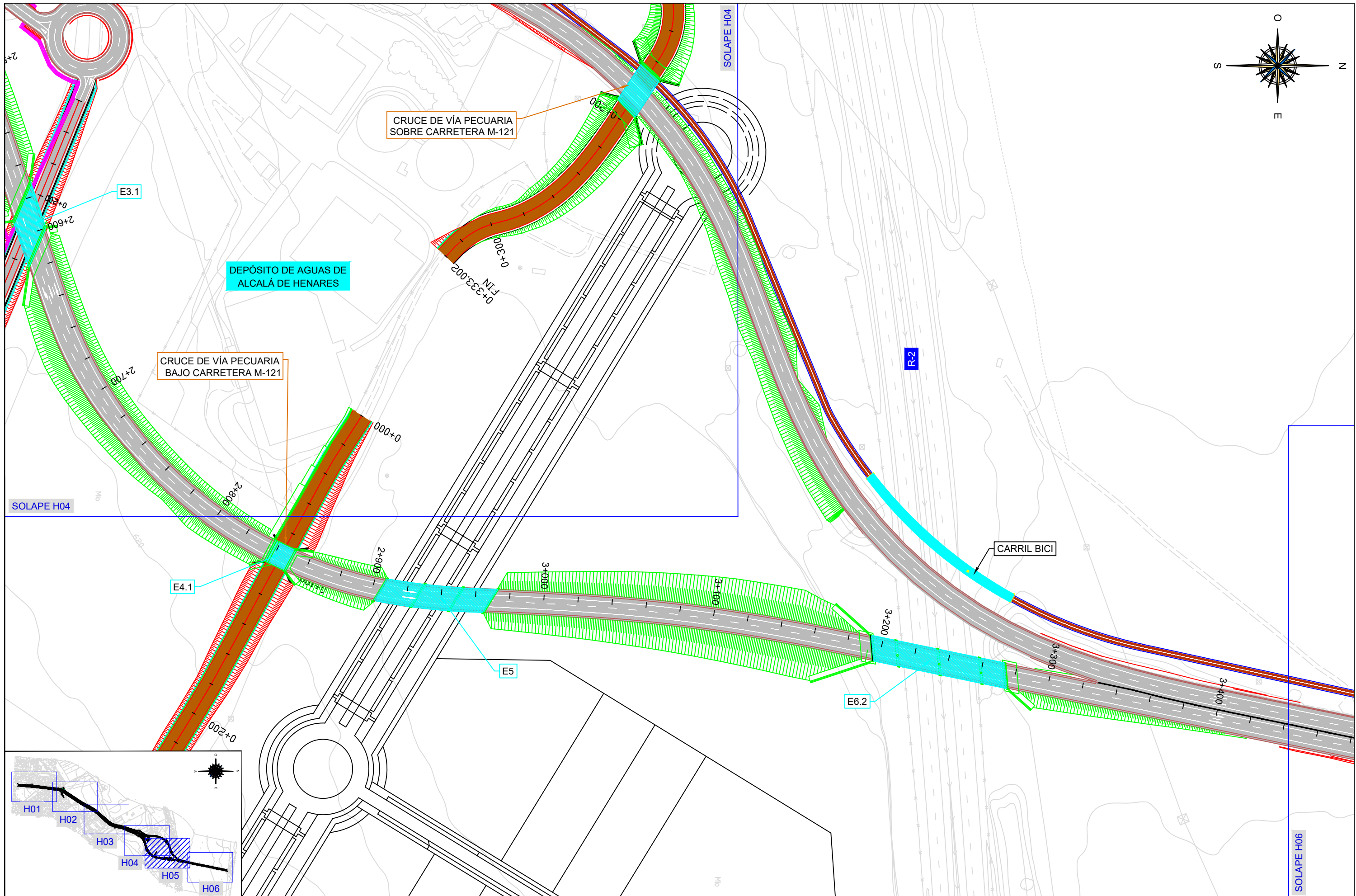




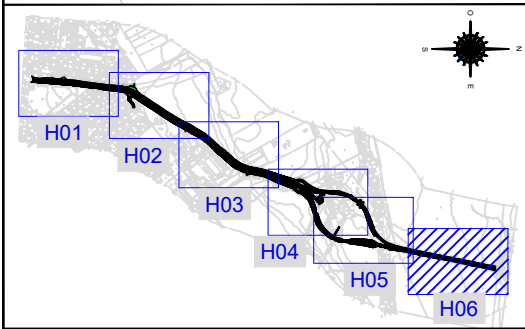
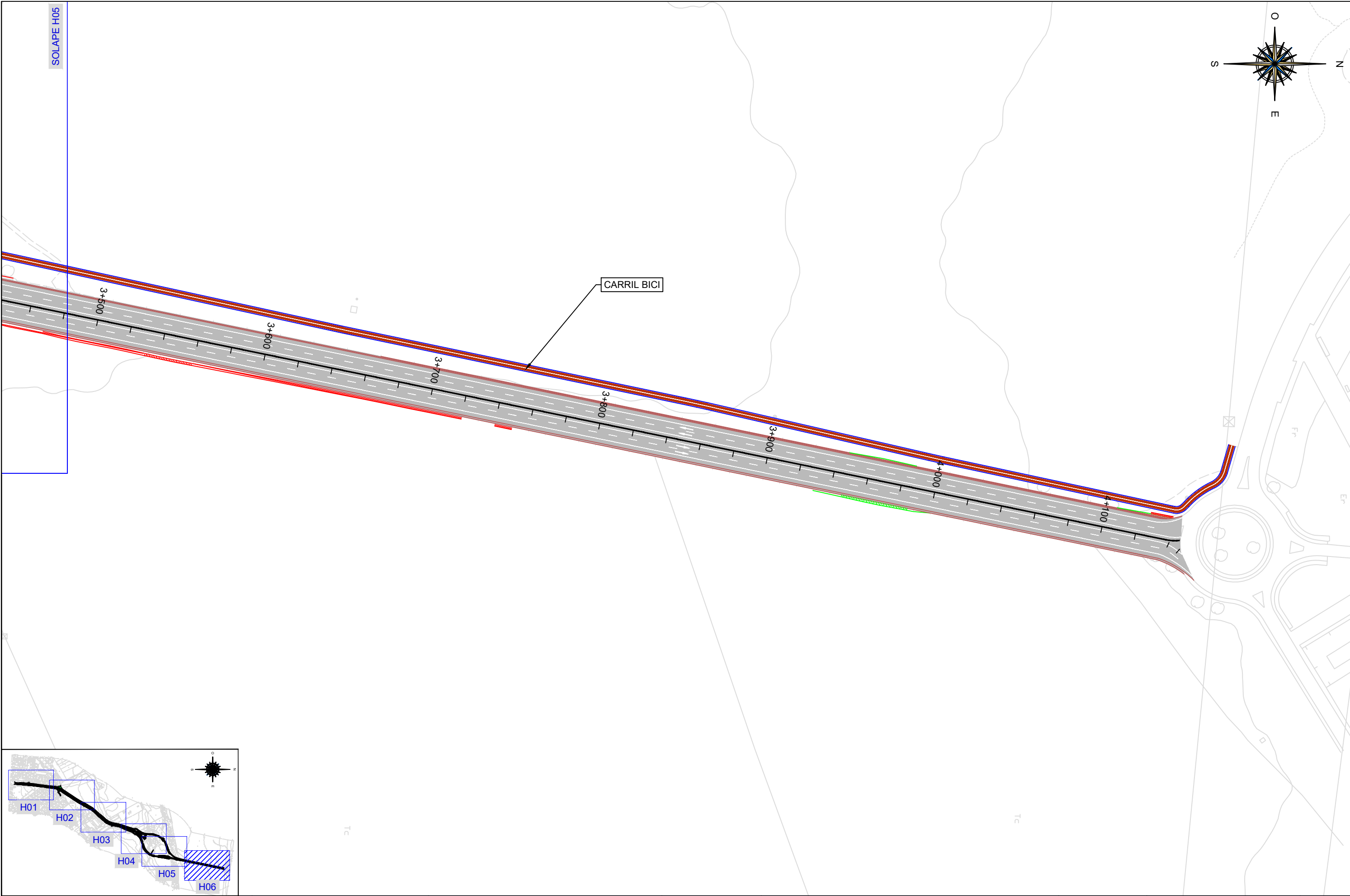


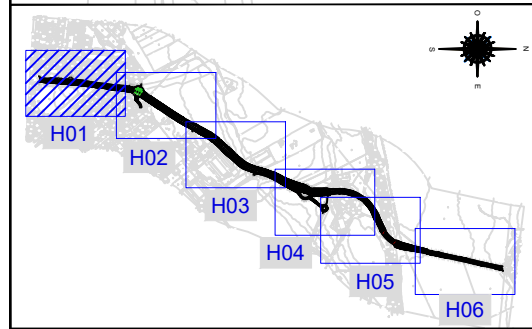
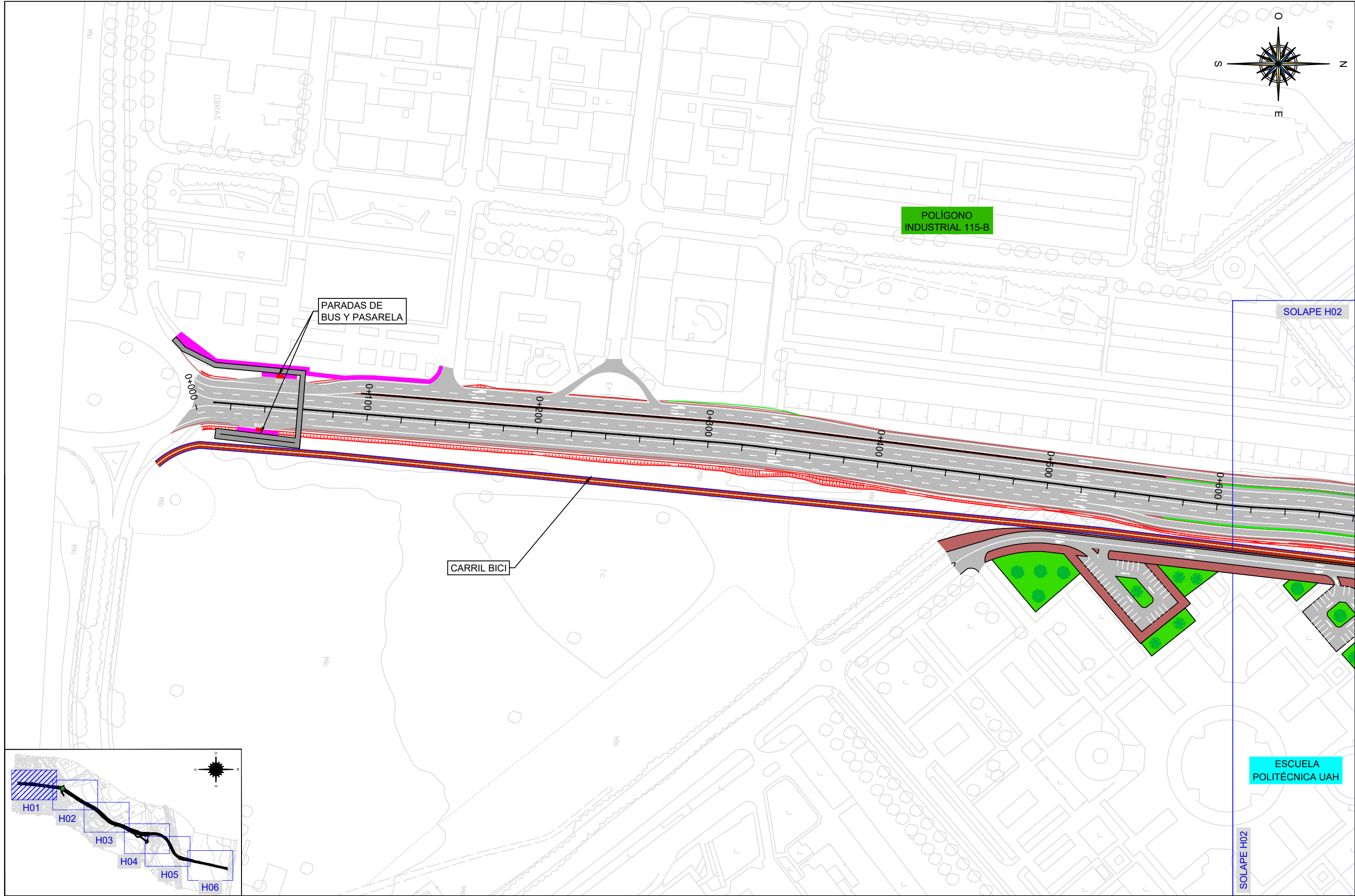
<b>ORGANISMO</b>  CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  INGEMED INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  0 5 10 15 20 1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-02.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 2	<b>Nº PLANO</b> 05-02 <b>HOJA 4 DE 6</b>
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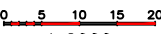




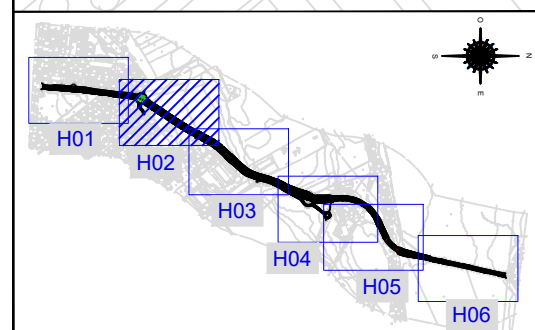
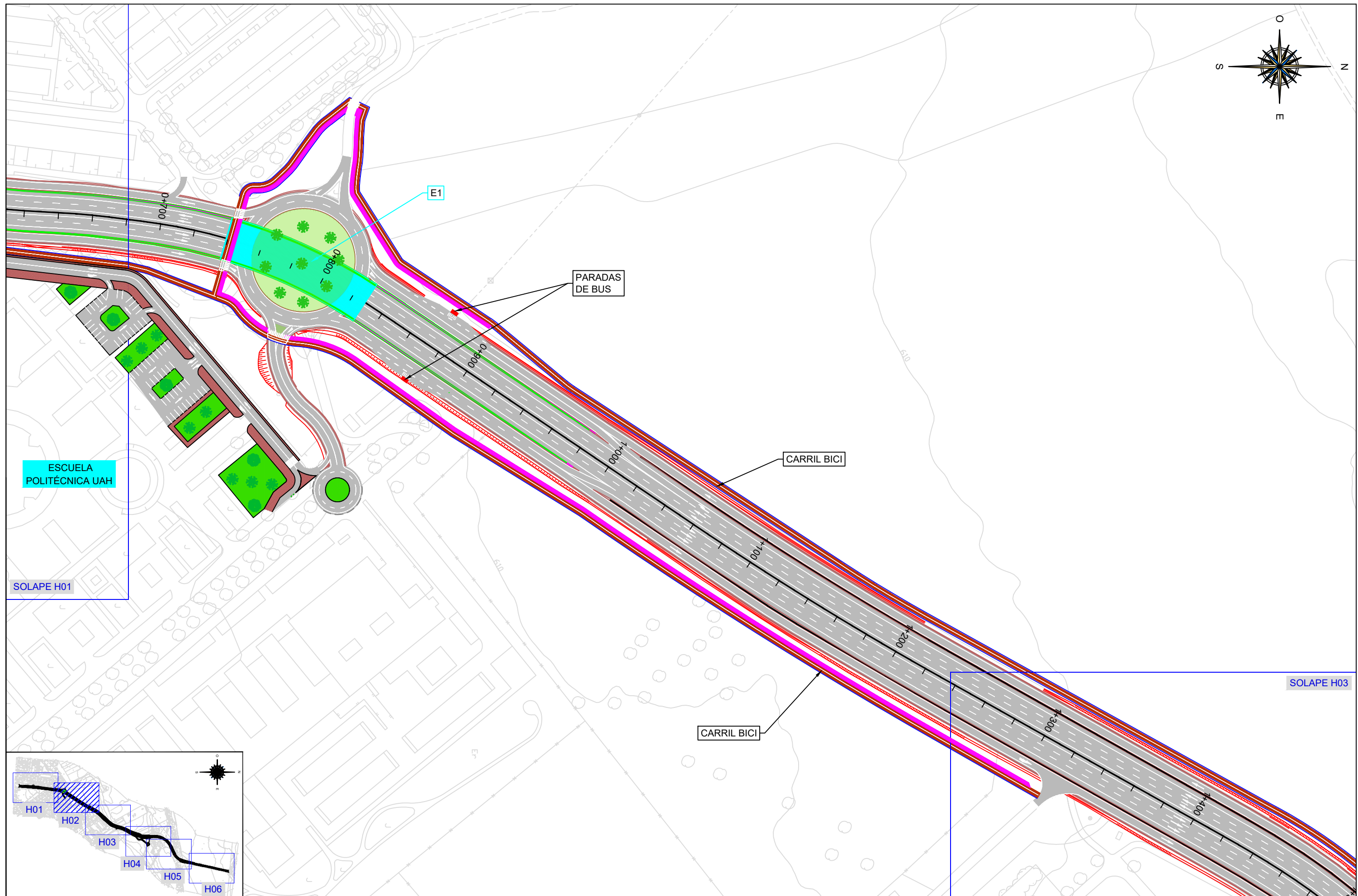


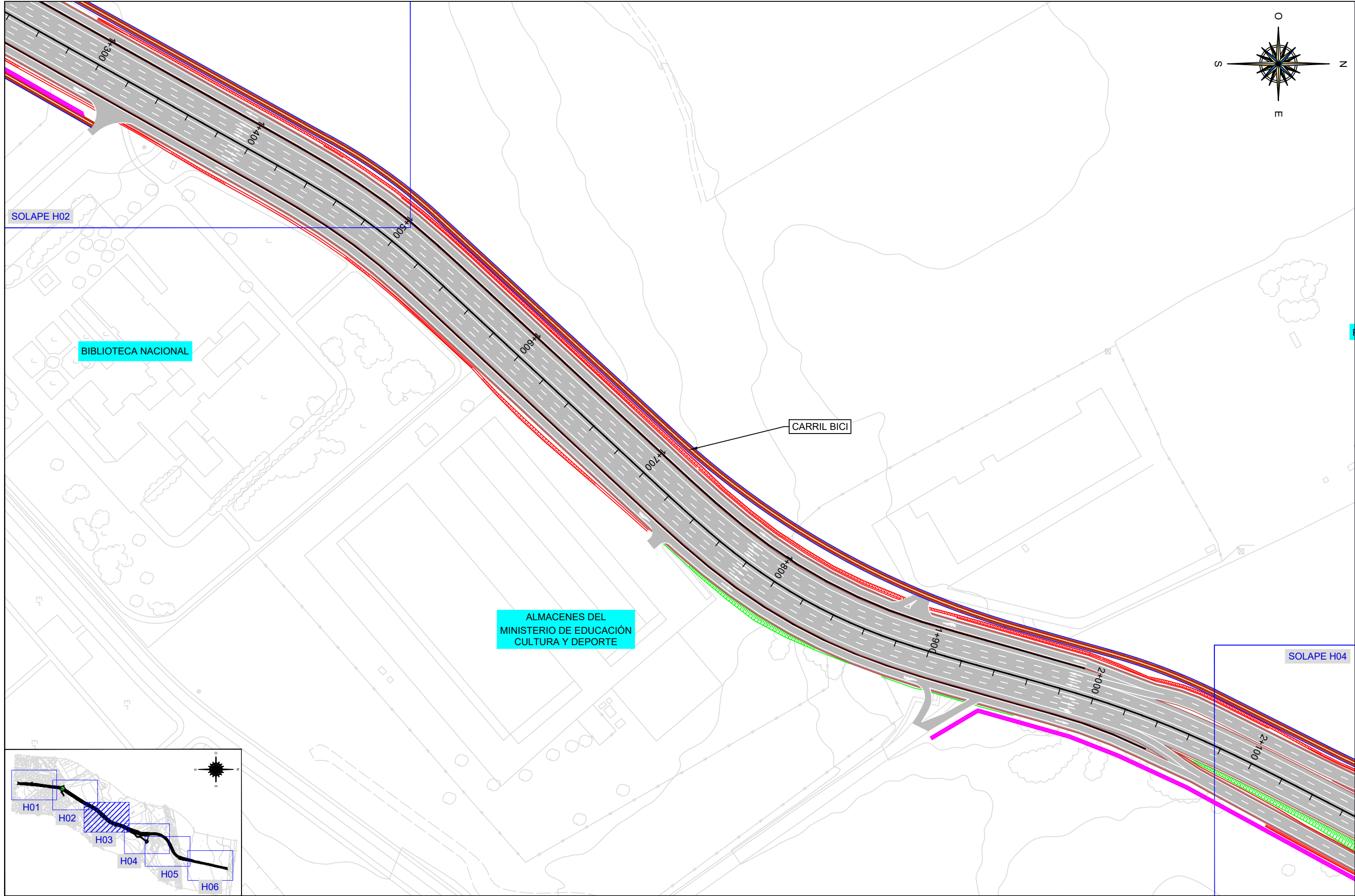




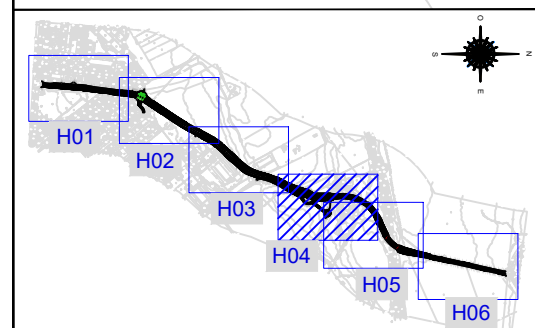
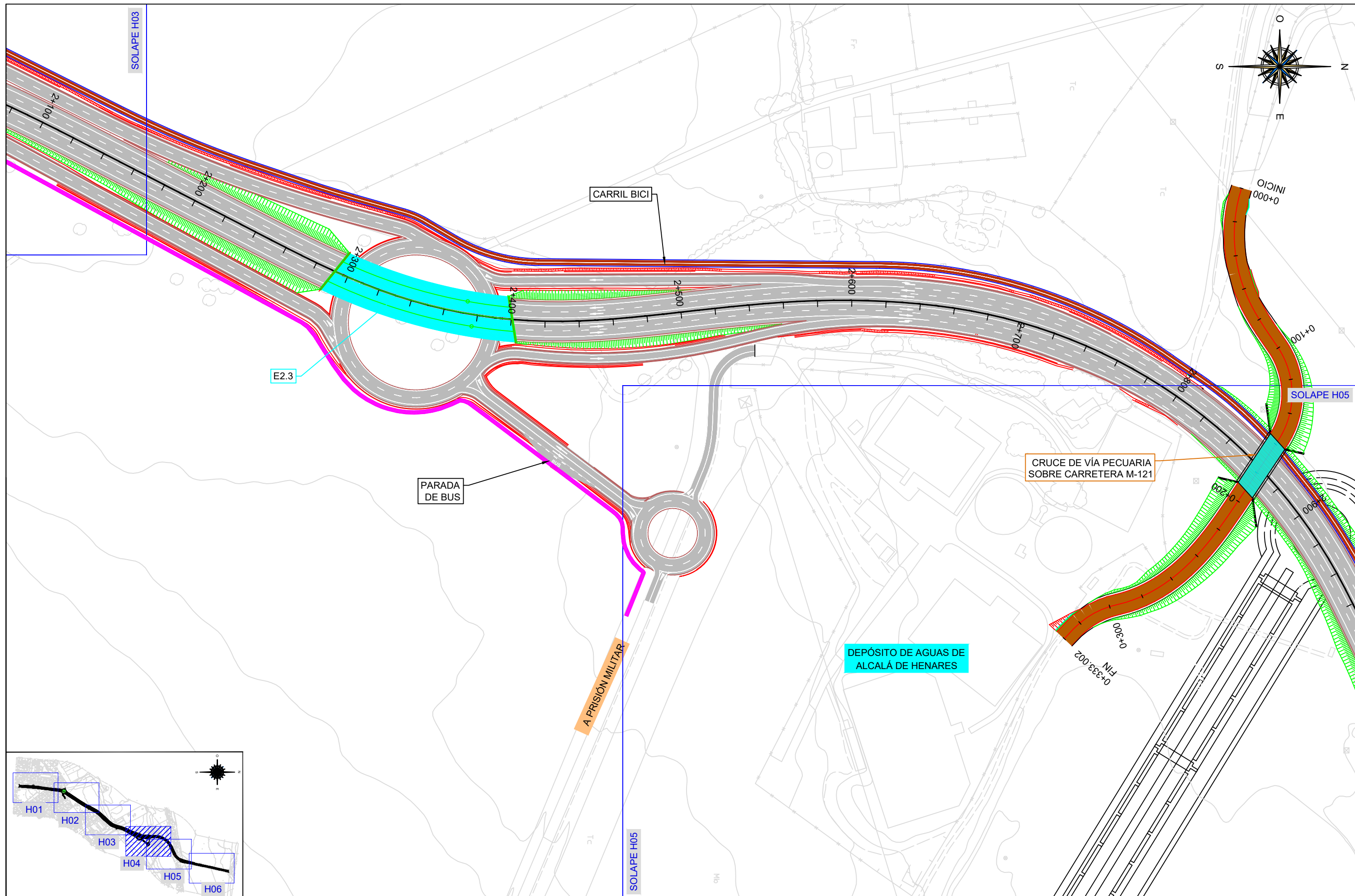
<p>ORGANISMO</p> <p> <b>CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS</b> <b>Comunidad de Madrid</b></p>	<p>CONSULTOR</p> <p> <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.</p>	<p>AUTOR DEL ESTUDIO</p> <p> <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS</p>	<p>ESCALAS</p> <p> 1: 2000</p>	<p>TÍTULO DE PROYECTO</p> <p>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</p>	<p>FECHA</p> <p>JUNIO 2023</p> <p>FICHERO</p> <p>05-03.dwg</p>	<p>DESIGNACIÓN</p> <p>PLANTA GENERAL ALTERNATIVA 3</p>	<p>Nº PLANO</p> <p>05-03</p> <p>HOJA 1 DE 6</p>
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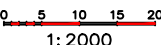


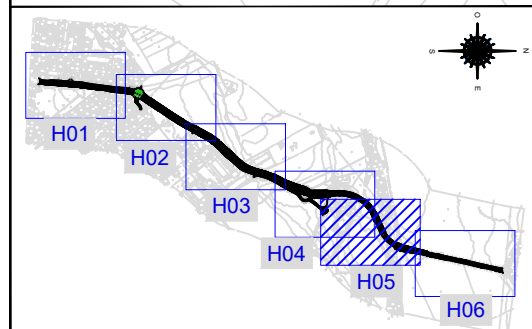
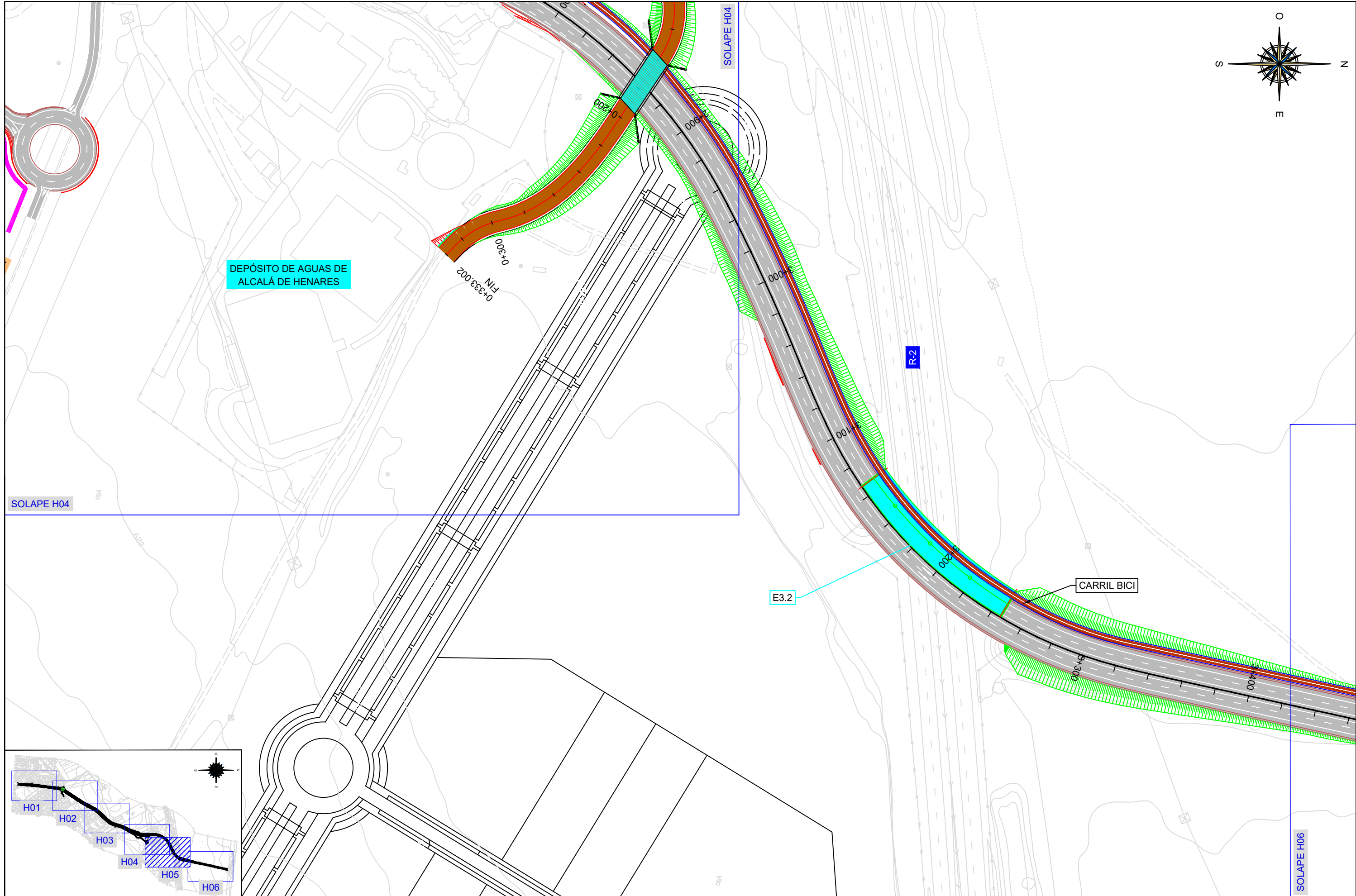




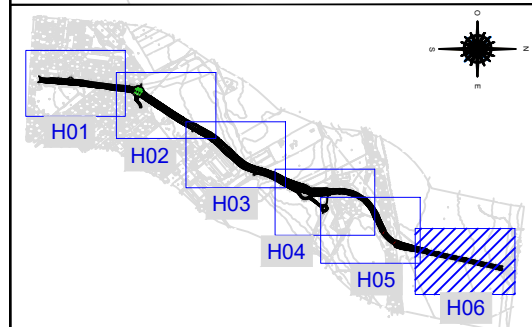





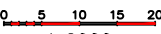


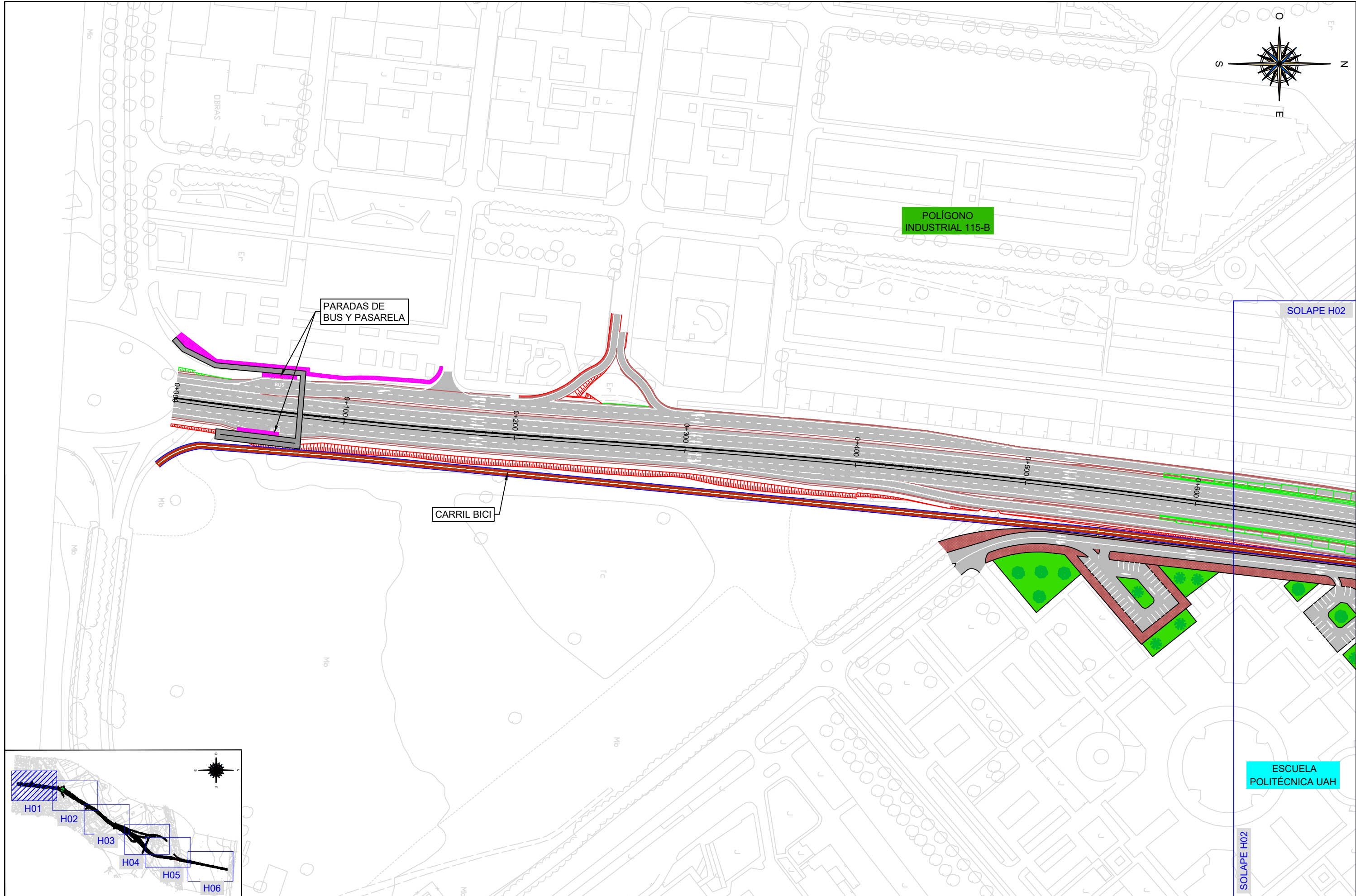
<b>ORGANISMO</b> 	<b>CONSULTOR</b> 	<b>AUTOR DEL ESTUDIO</b>  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-03.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 3	<b>Nº PLANO</b> 05-03 <b>HOJA 4 DE 6</b>
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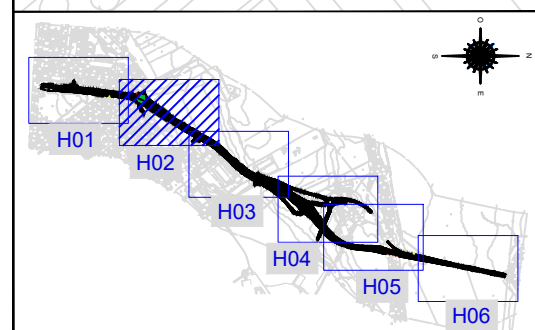
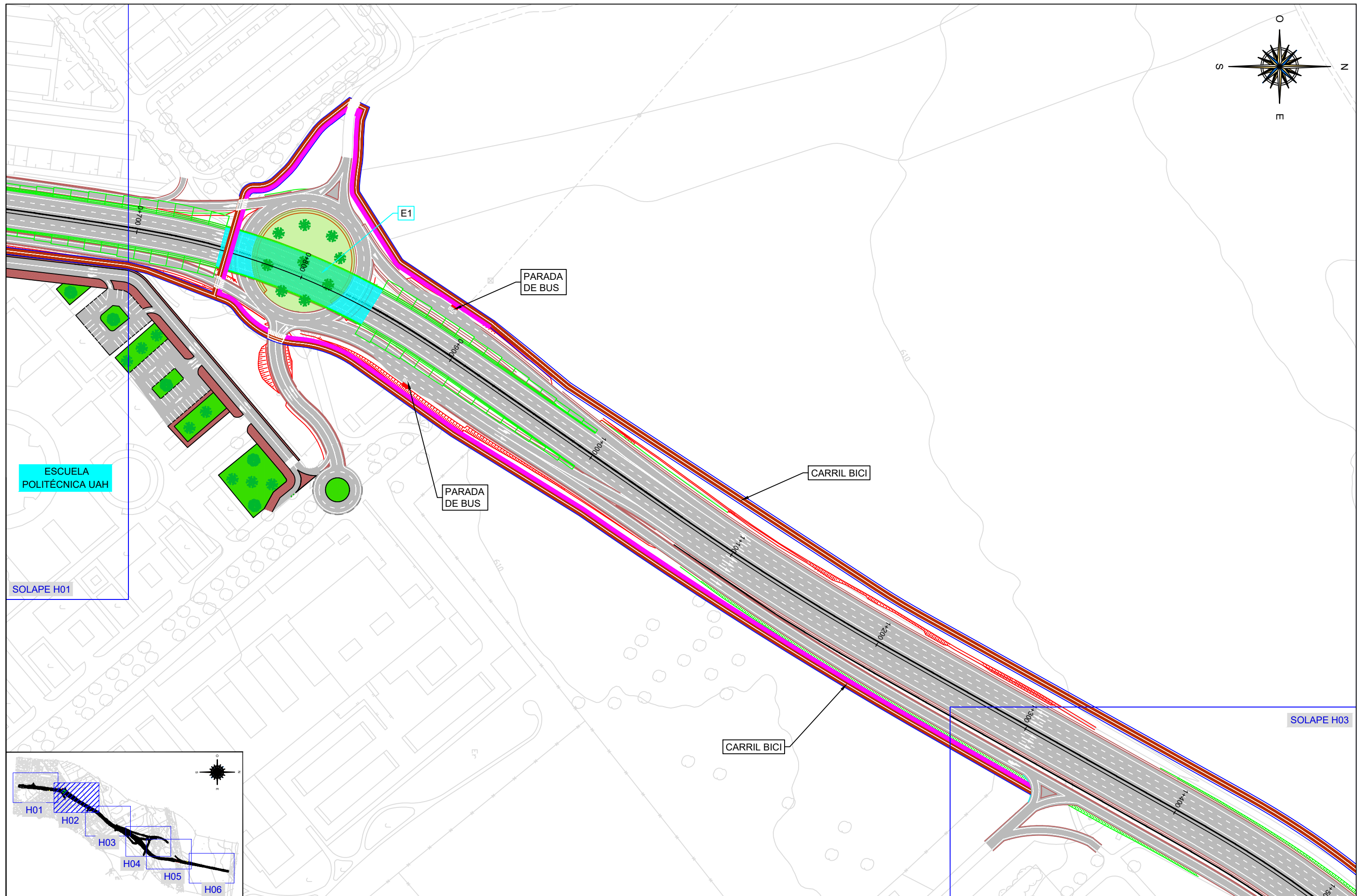




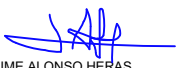
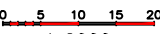


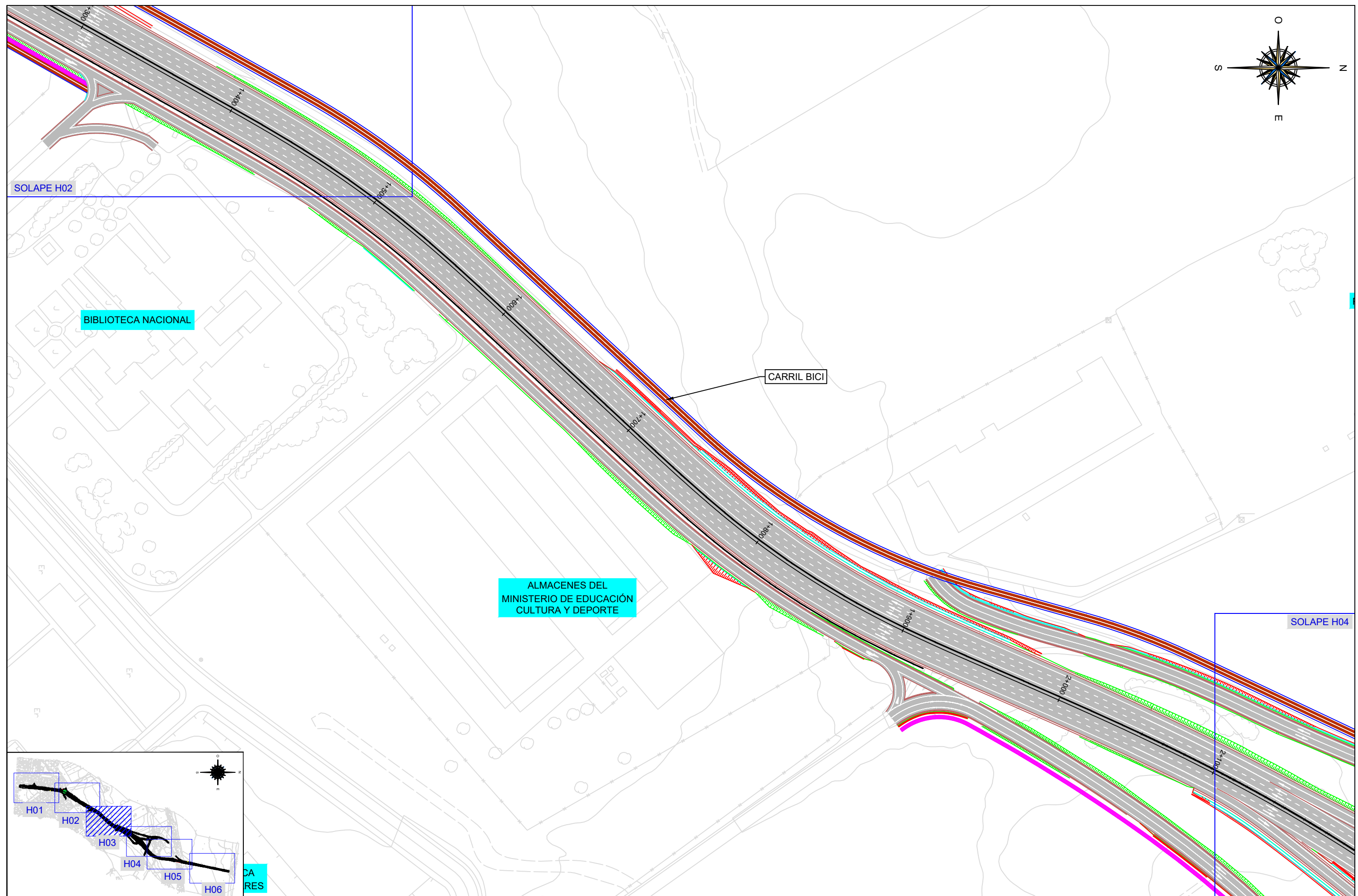
<b>ORGANISMO</b>  <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  0 5 10 15 20 1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-03.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 3	<b>Nº PLANO</b> 05-03 <b>HOJA 6 DE 6</b>
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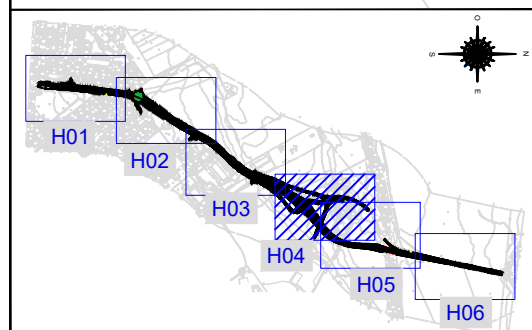
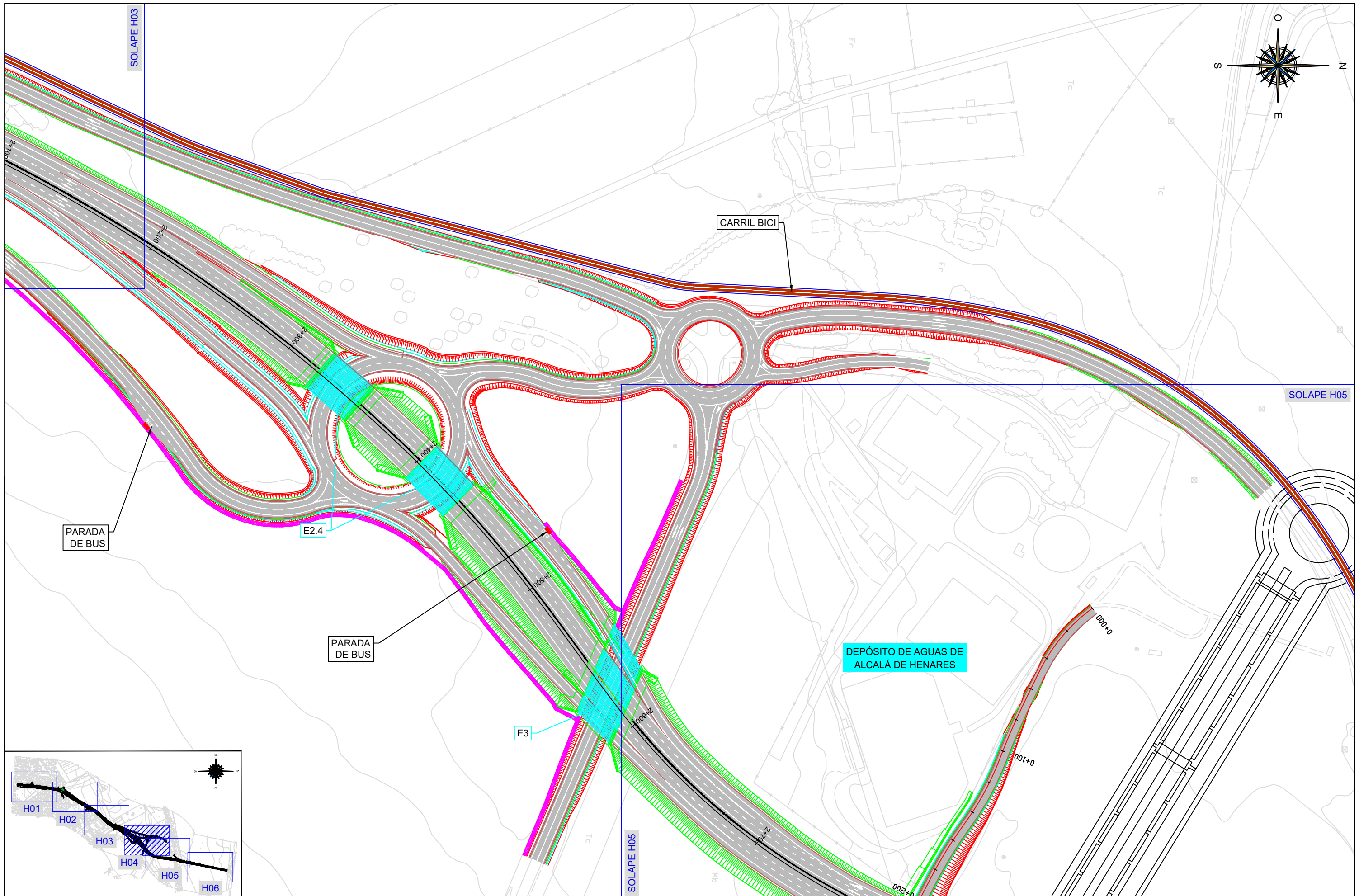




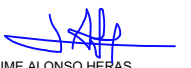
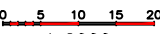


<p>ORGANISMO</p> <p> <b>CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS</b> <b>Comunidad de Madrid</b></p>	<p>CONSULTOR</p> <p> <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.</p>	<p>AUTOR DEL ESTUDIO</p> <p> <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS</p>	<p>ESCALAS</p> <p> 1: 2000</p>	<p>TÍTULO DE PROYECTO</p> <p>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</p>	<p>FECHA</p> <p>JUNIO 2023</p> <p>FICHERO</p> <p>05-04.dwg</p>	<p>DESIGNACIÓN</p> <p>PLANTA GENERAL ALTERNATIVA 4</p>	<p>Nº PLANO</p> <p>05-04</p> <p>HOJA 2 DE 6</p>
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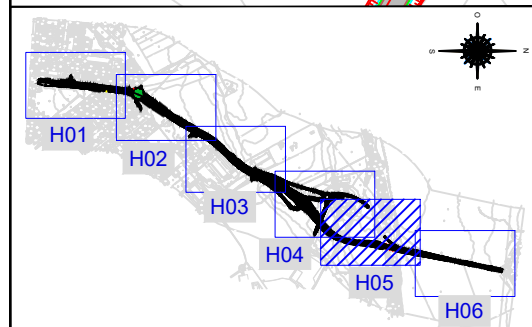
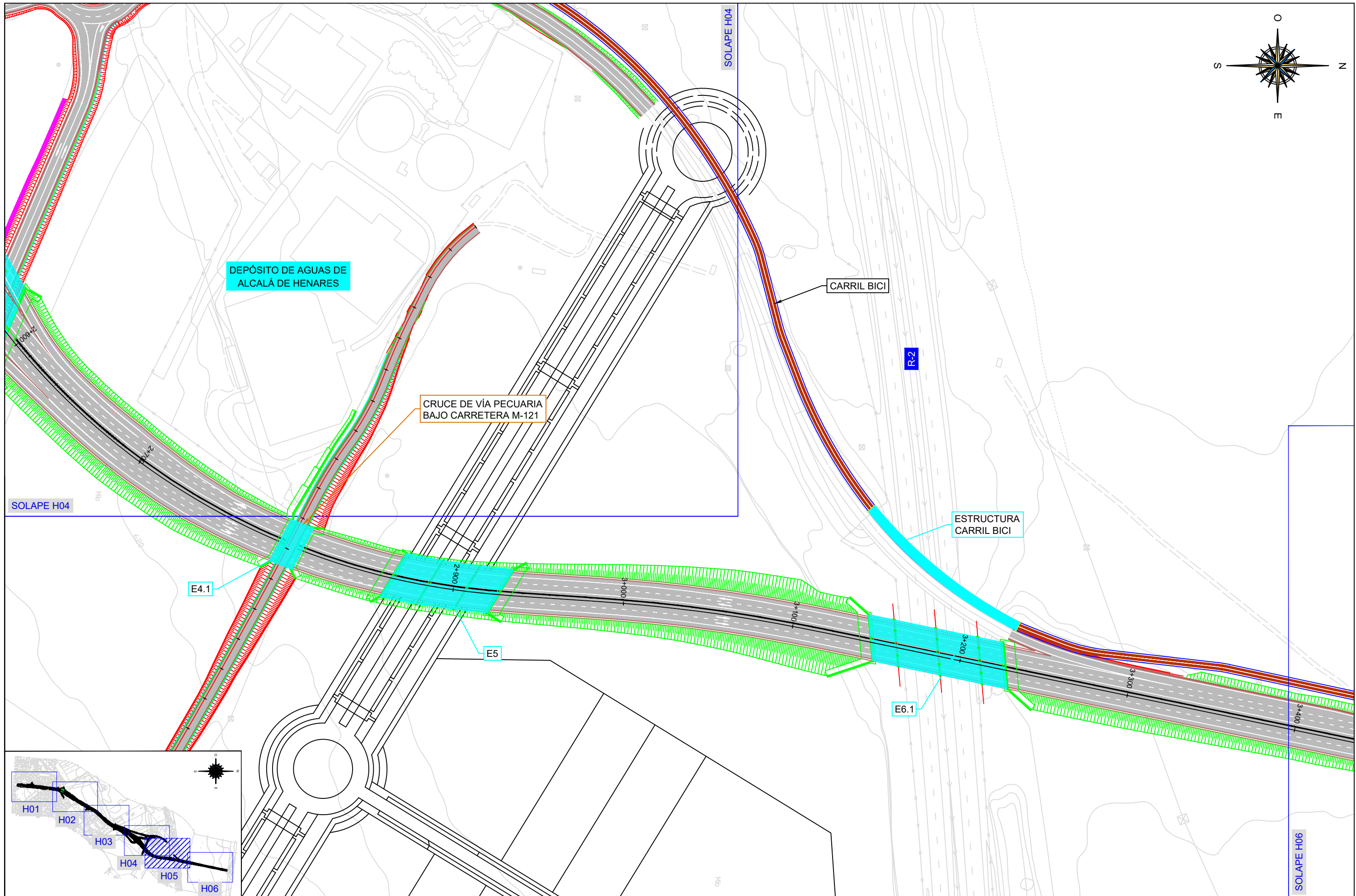




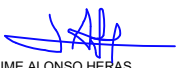
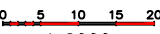




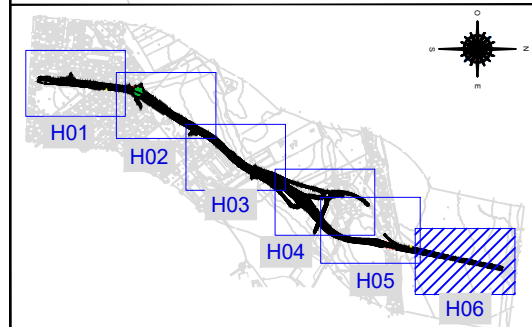
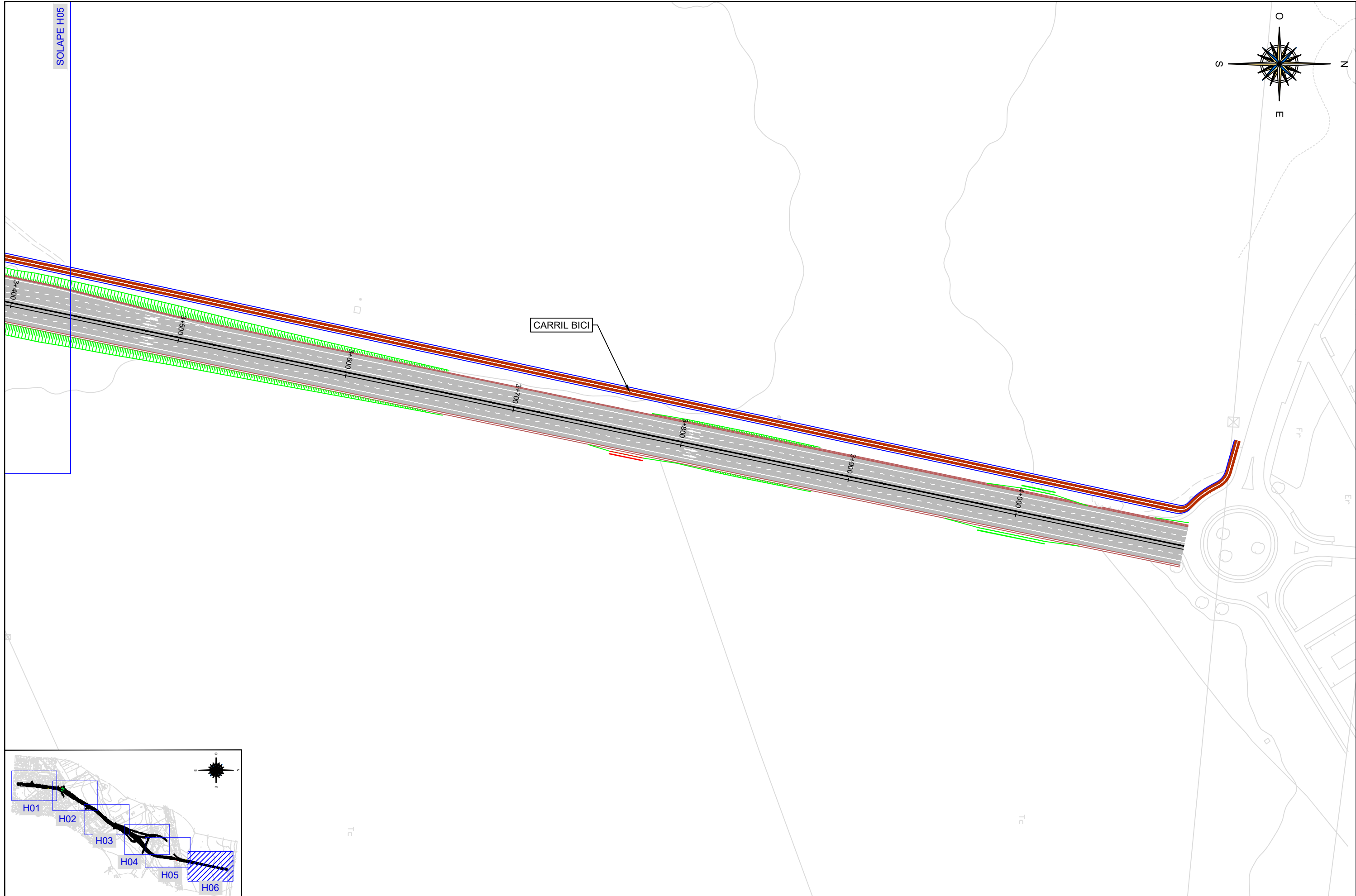
<b>ORGANISMO</b>  <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRANEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  0 5 10 15 20 1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-04.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 4	<b>Nº PLANO</b> 05-04 <b>HOJA 4 DE 6</b>
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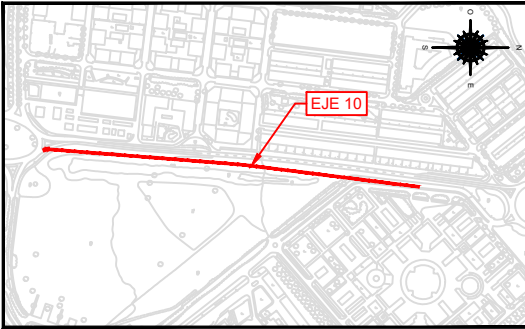




<b>ORGANISMO</b>  <b>CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS</b> <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRANEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 05-04.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 4	<b>Nº PLANO</b> 05-04 <b>HOJA 5 DE 6</b>
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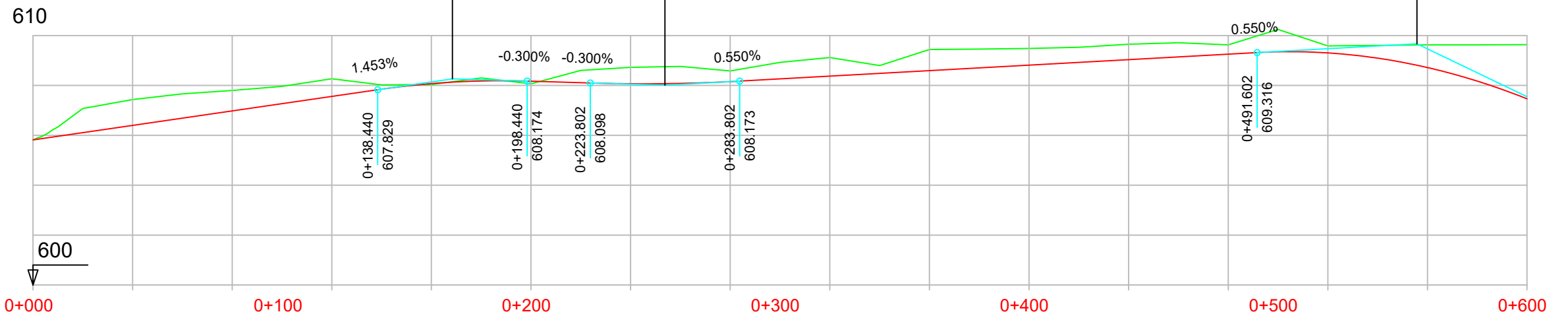
EJE 10  
PK 0+000 - 0+600

**LEYENDA**  
— RASANTE  
— TERRENO

PK= 0+168.440  
CV= 608.264  
KV= 3422.704  
W = -0.018  
Lv= 60.000  
D = 0.131

PK= 0+253.802  
CV= 608.008  
KV= 7058.824  
W = 0.008  
Lv= 60.000  
D = -0.064

PK= 0+555.802  
CV= 609.669  
KV= 2400.000  
W = -0.053  
Lv= 128.400  
D = 0.859



P.K.		
COTAS	RASANTE	TERRENO

605.817	606.04	606.398	606.979	607.561	608.074	608.170	608.068	608.153	608.372	608.592	608.812	609.032	609.252	609.304	608.718	607.465
606.04	607.43	607.80	608.27	608.04	608.07	608.73	608.58	609.12	609.44	609.48	609.65	609.63	609.58	609.63	609.63	609.63

DIAGRAMA  
DE  
CURVATURAS

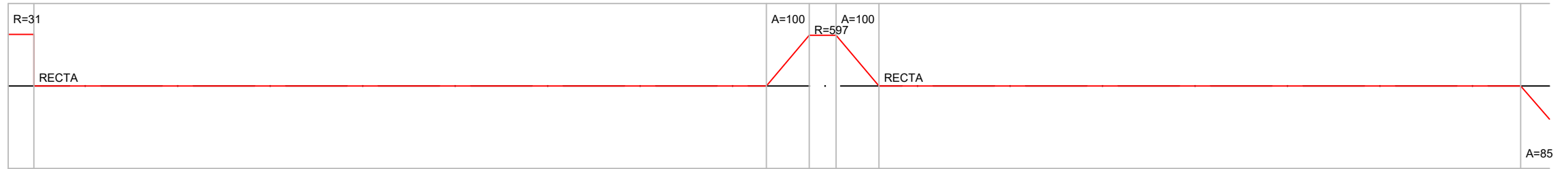
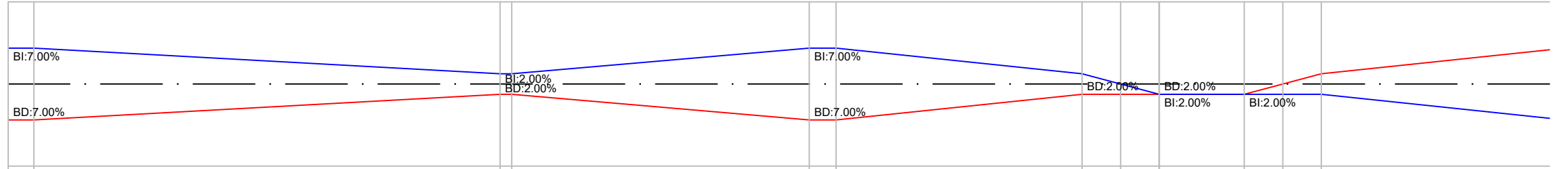
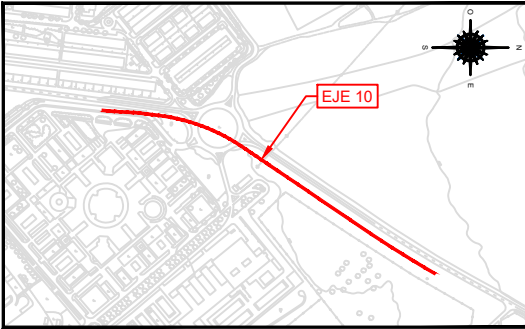


DIAGRAMA  
DE  
PERALTES



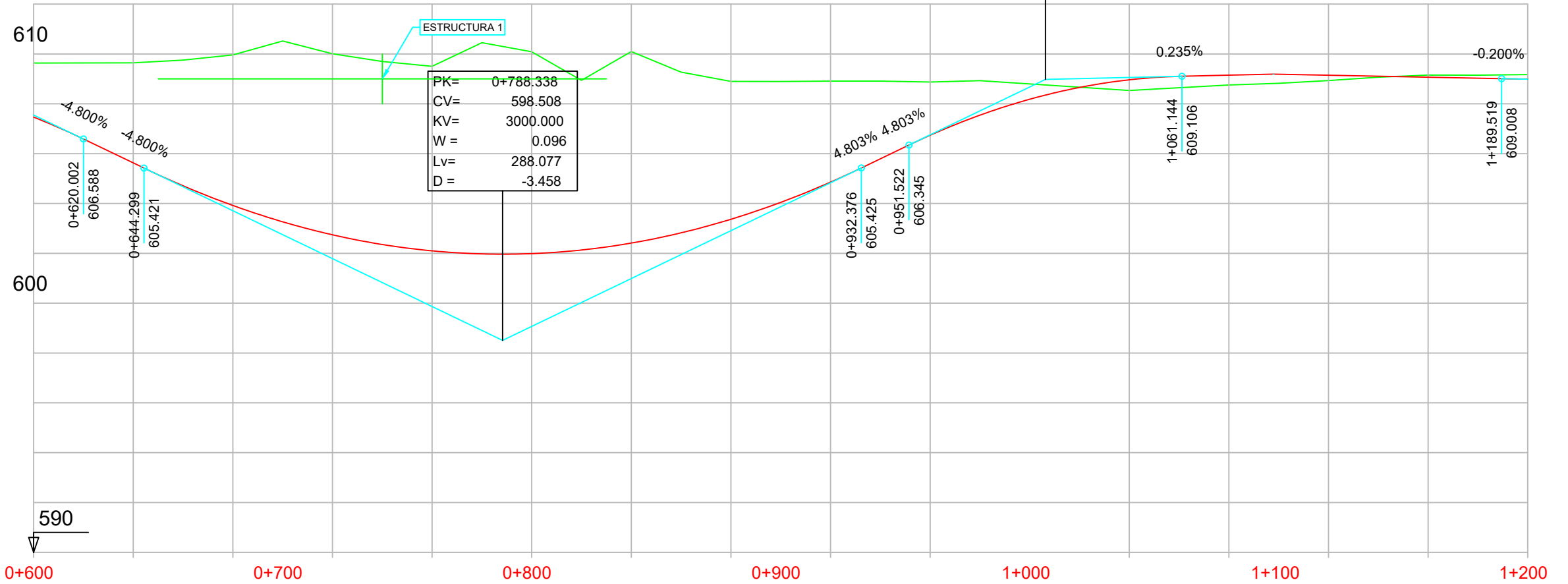




EJE 10  
PK 0+600 - 1+200

PK= 1+006.333  
CV= 608.977  
KV= 2400.000  
W = -0.046  
Lv= 109.622  
D = 0.626

LEYENDA  
— RASANTE  
— TERRENO



P.K.		
COTAS	RASANTE	TERRENO

0+600		0+700		0+800		0+900		1+000		1+100		1+200																	
607.465	609.63	605.628	609.65	603.920	609.96	602.743	610.01	602.099	609.50	601.988	610.09	602.411	610.10	603.367	608.90	604.856	608.91	606.737	608.87	608.963	608.53	609.150	608.75	609.147	608.93	609.067	609.15	608.995	609.17

DIAGRAMA  
DE  
CURVATURAS

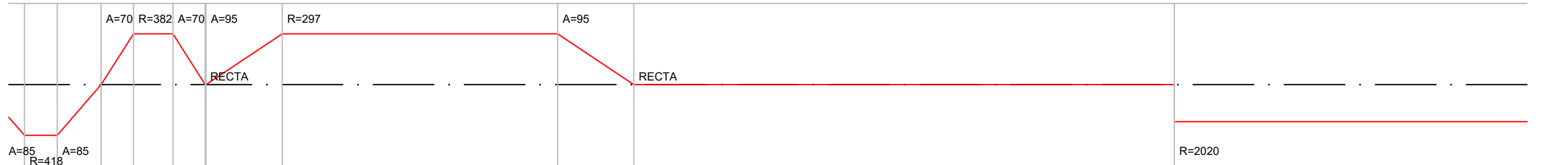
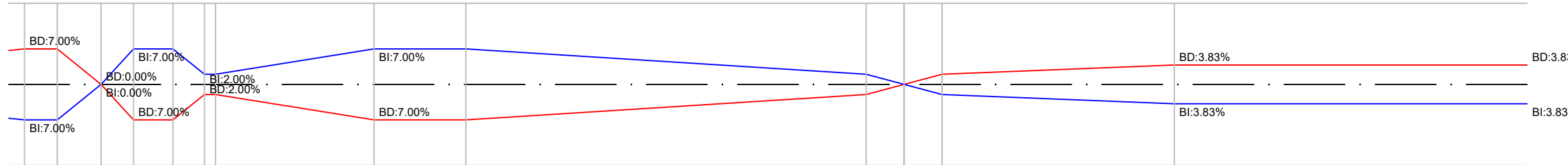


DIAGRAMA  
DE  
PERALTES



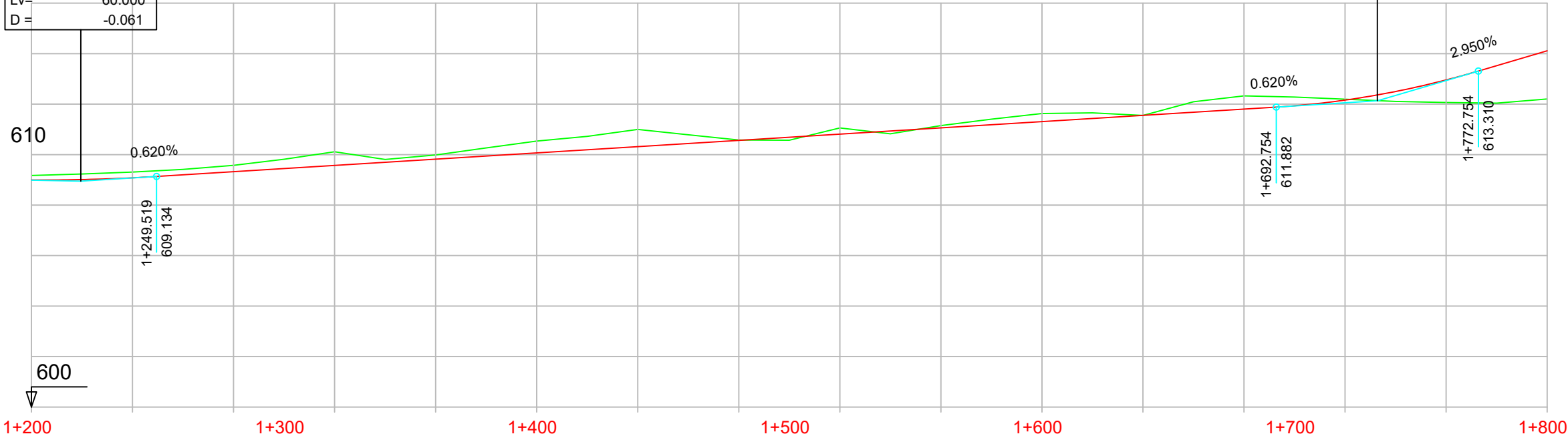


EJE 10  
PK 1+200 - 1+800

**LEYENDA**  
— RASANTE  
— TERRENO

PK= 1+219.519  
CV= 608.948  
KV= 7317.073  
W = 0.008  
Lv= 60.000  
D = -0.061

PK= 1+732.754  
CV= 612.130  
KV= 3433.476  
W = 0.023  
Lv= 80.000  
D = -0.233

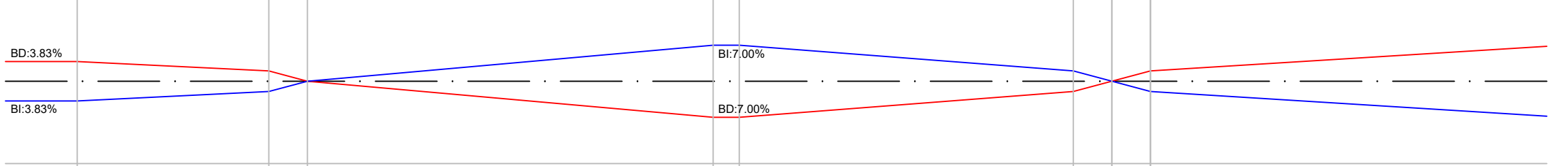
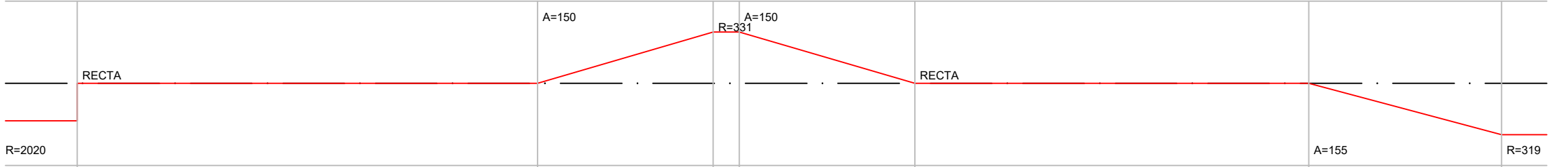


P.K.		
COTAS	RASANTE	TERRENO

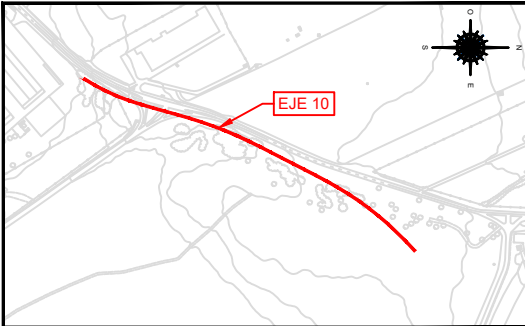
DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES

608.995	609.17	609.082	609.31	609.323	609.57	609.571	610.11	609.819	609.98	610.067	610.53	610.315	611.00	610.563	610.58	610.811	611.06	611.059	611.15	611.307	611.63	611.555	611.55	611.803	612.32	612.159	612.19	612.958	612.06	614.114	612.20
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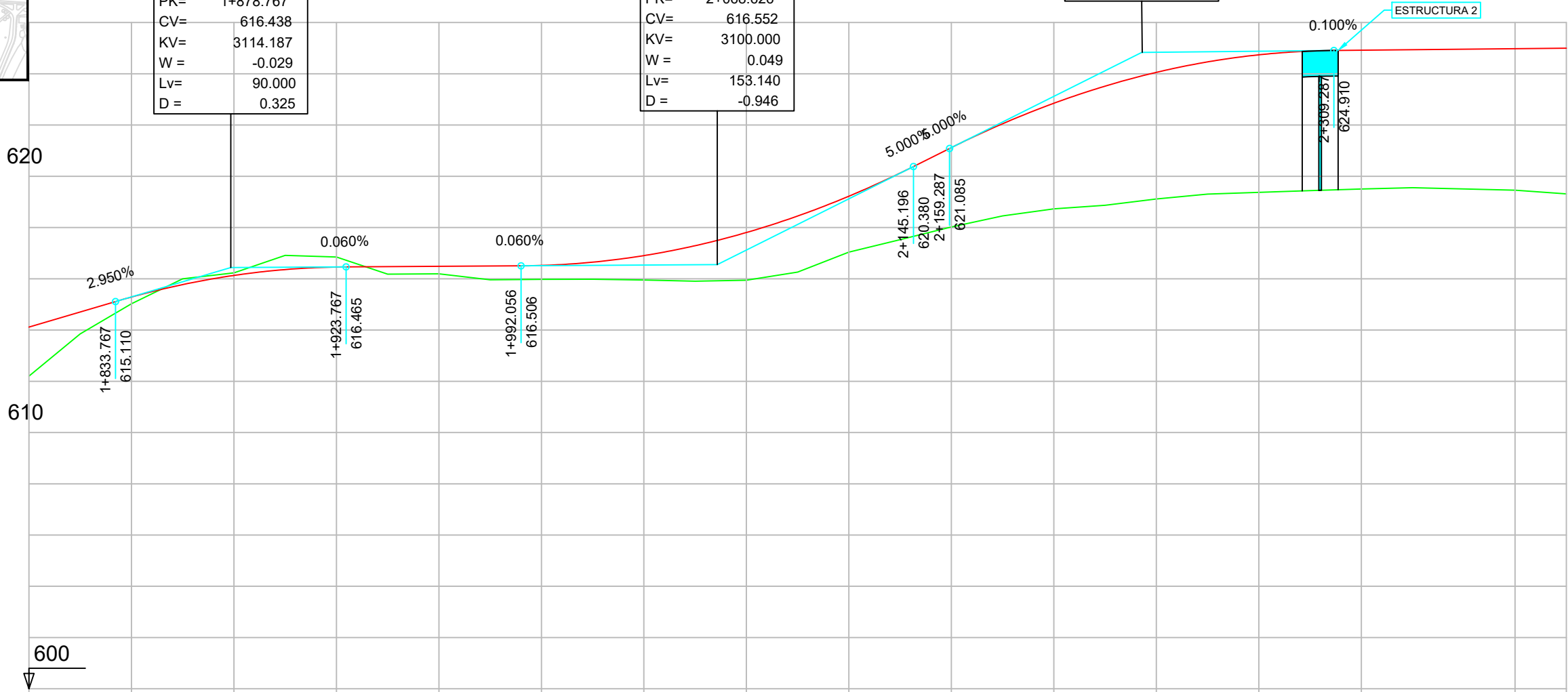
EJE 10  
PK 1+800 - 2+400

PK=	2+234.287
CV=	624.835
KV=	3061.224
W =	-0.049
Lv=	150.000
D =	0.919

PK=	1+878.767
CV=	616.438
KV=	3114.187
W =	-0.029
Lv=	90.000
D =	0.325

PK=	2+068.626
CV=	616.552
KV=	3100.000
W =	0.049
Lv=	153.140
D =	-0.946

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

1+800		1+900		2+000		2+100		2+200		2+300		2+400																			
614.114	612.20	615.288	615.03	616.131	616.23	616.460	616.85	616.487	616.19	616.521	615.98	616.905	615.95	617.806	615.94	619.223	617.04	621.120	618.02	622.850	618.73	624.056	619.11	624.740	619.37	624.920	619.50	624.980	619.46	625.000	619.31

DIAGRAMA  
DE  
CURVATURAS

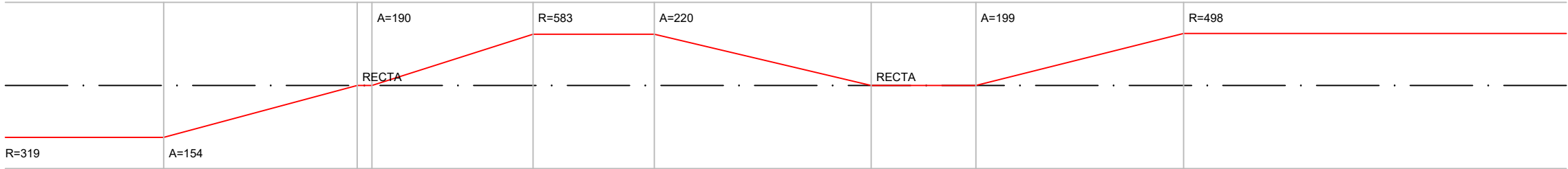
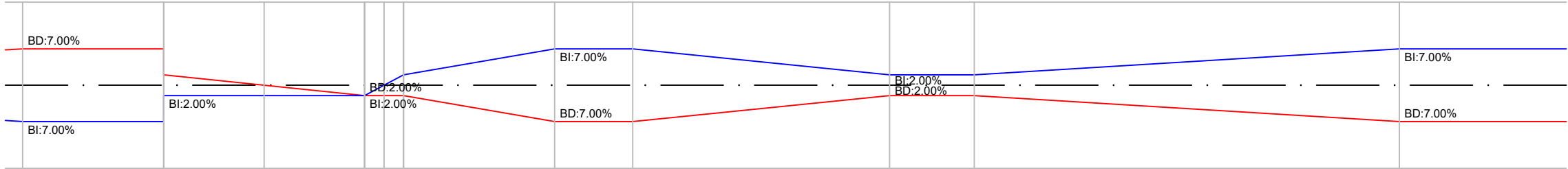
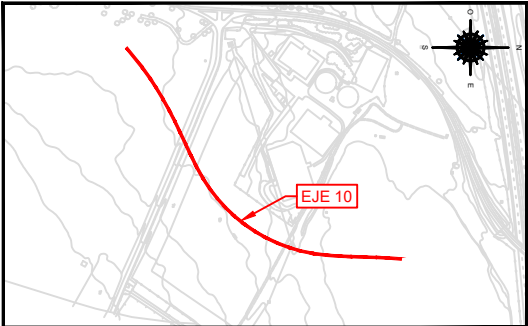


DIAGRAMA  
DE  
PERALTES

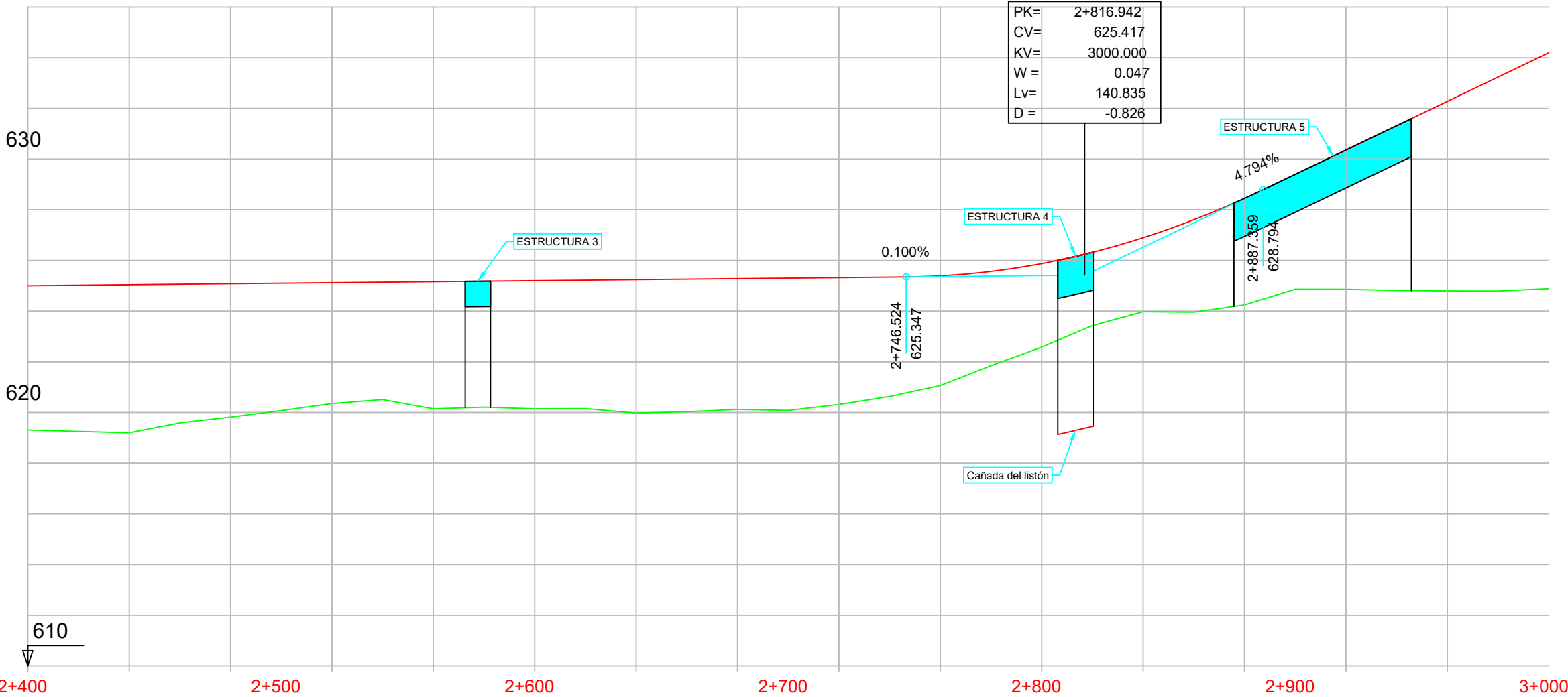




EJE 10  
PK 2+400 - 3+000

**LEYENDA**

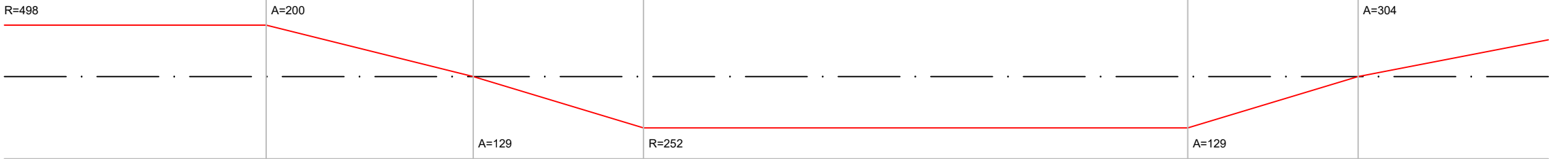
- RASANTE
- TERRENO



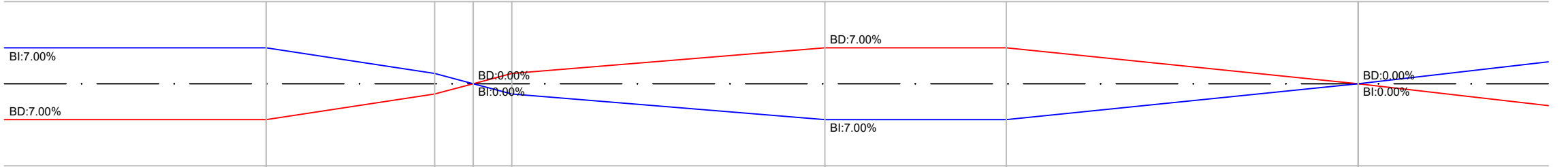
P.K.		
COTAS	RASANTE	TERRENO

2+400	2+500	2+600	2+700	2+800	2+900	3+000
625.000 619.31	625.040 619.20	625.080 619.82	625.120 620.35	625.160 620.15	625.200 620.15	625.240 619.98
625.280 620.12	625.320 620.31	625.391 621.06	625.877 622.58	626.897 623.98	628.450 624.25	630.359 624.86
632.276 624.80						

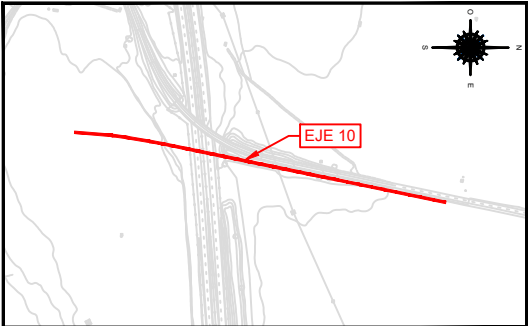
**DIAGRAMA DE CURVATURAS**



**DIAGRAMA DE PERALTES**







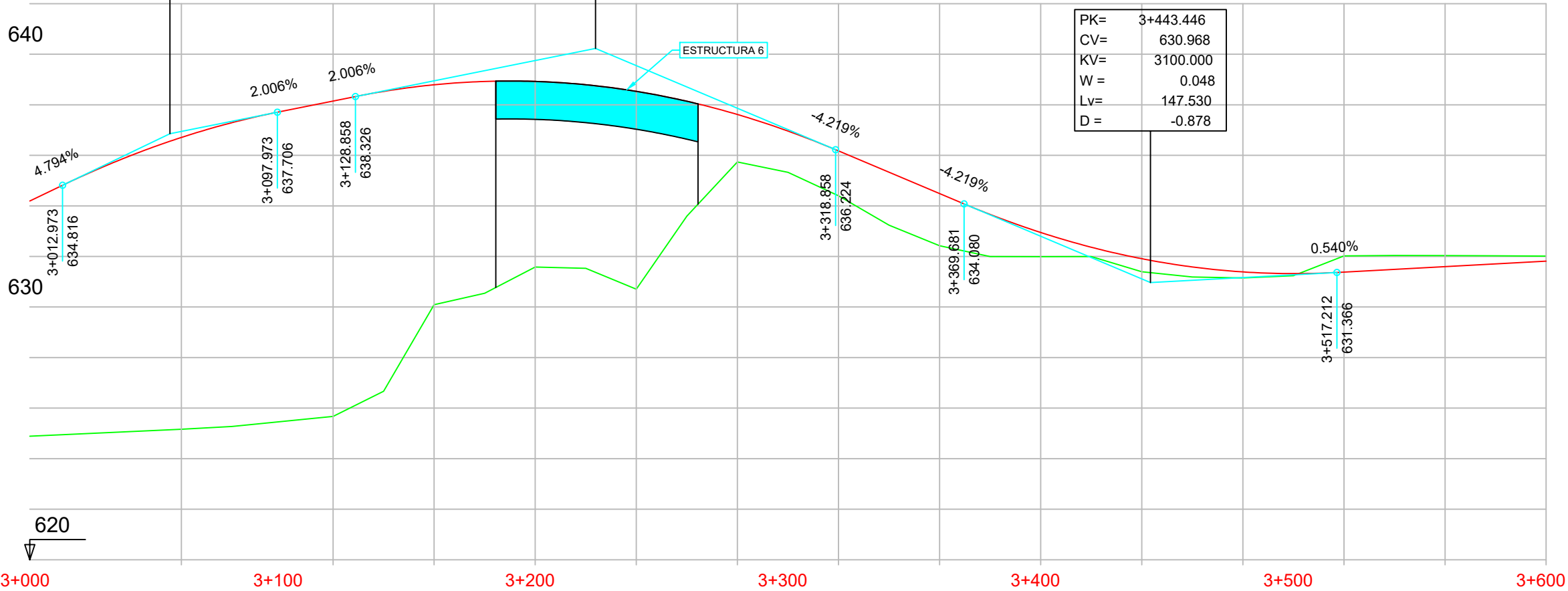
PK= 3+223.858  
CV= 640.231  
KV= 3052.384  
W = -0.062  
Lv= 190.000  
D = 1.478

EJE 10  
PK 3+000 - 3+600

PK= 3+055.473  
CV= 636.854  
KV= 3048.154  
W = -0.028  
Lv= 85.000  
D = 0.296

PK= 3+443.446  
CV= 630.968  
KV= 3100.000  
W = 0.048  
Lv= 147.530  
D = -0.878

**LEYENDA**  
— RASANTE  
— TERRENO



P.K.		
COTAS	RASANTE	TERRENO

636.708	638.148	638.792	638.924	638.532	637.616	636.175	634.488	632.949	631.911	631.388	631.381	631.597	631.813
625.16	625.67	630.09	631.58	630.70	635.74	634.40	632.42	631.99	631.39	631.15	632.02	632.03	632.01

DIAGRAMA  
DE  
CURVATURAS

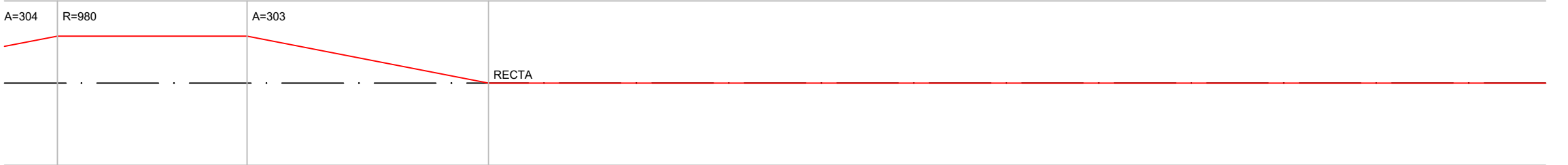
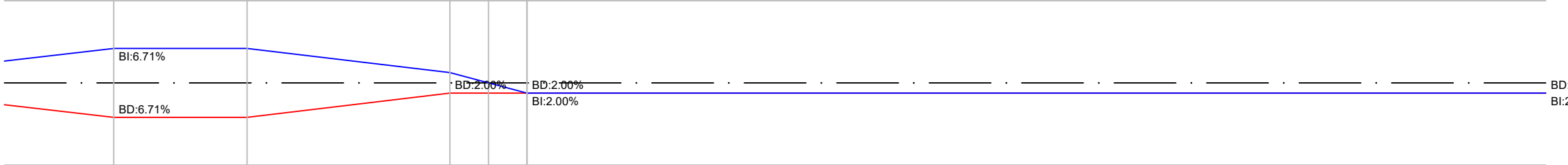
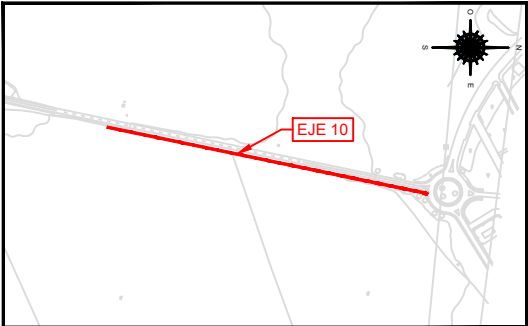


DIAGRAMA  
DE  
PERALTES

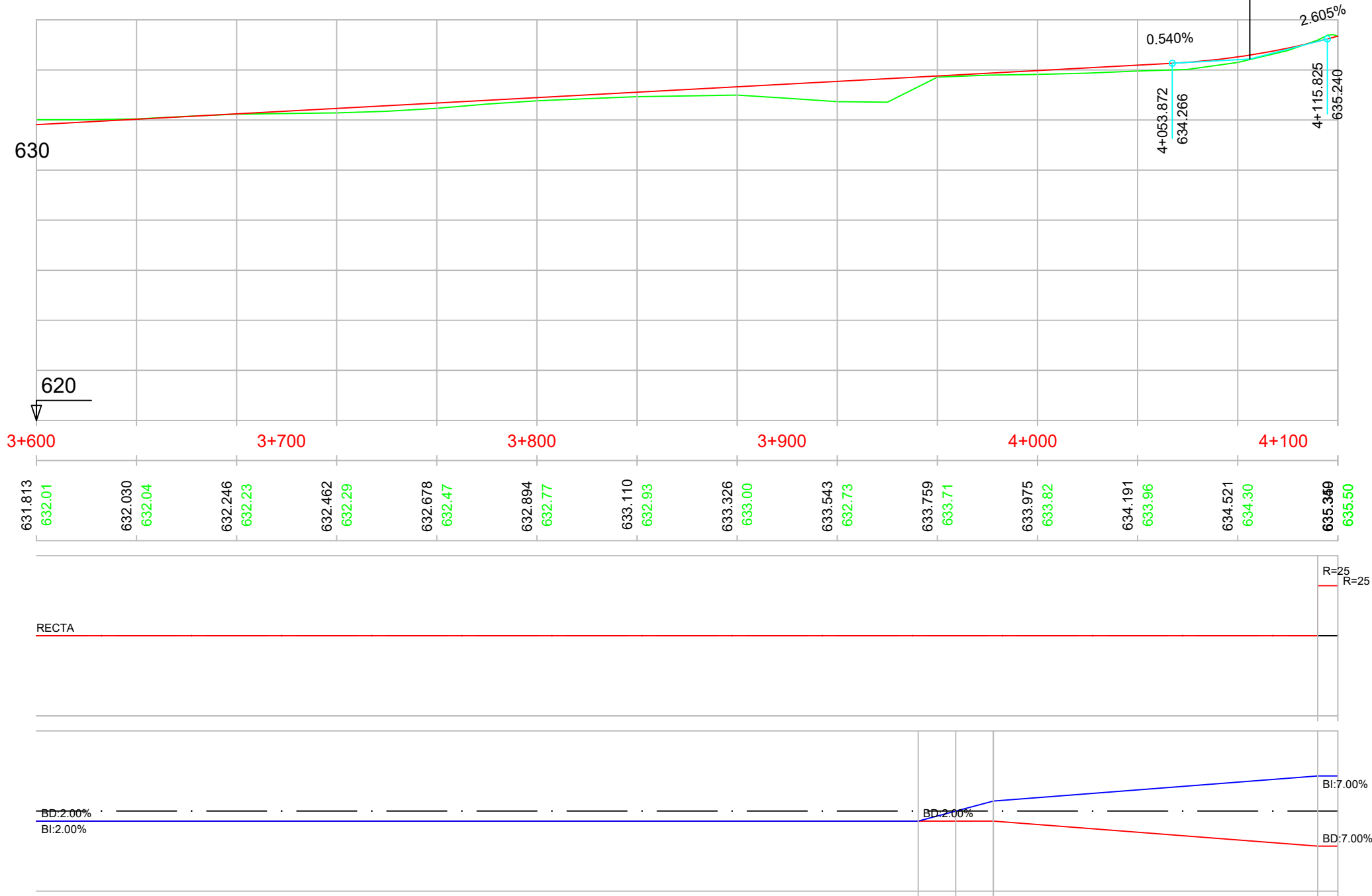




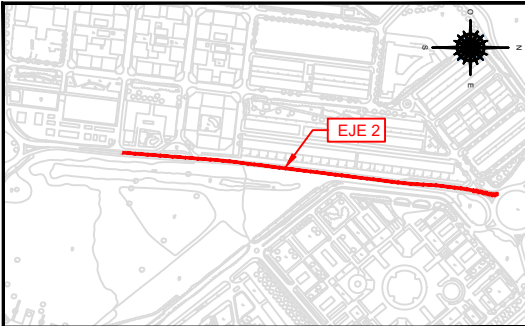
EJE 10  
PK 3+600 - 4+120,036

PK=	4+084.848
CV=	634.433
KV=	3000.000
W=	0.021
Lv=	61.953
D=	-0.160

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO







EJE 2  
PK 0+000 - 0+600

**LEYENDA**

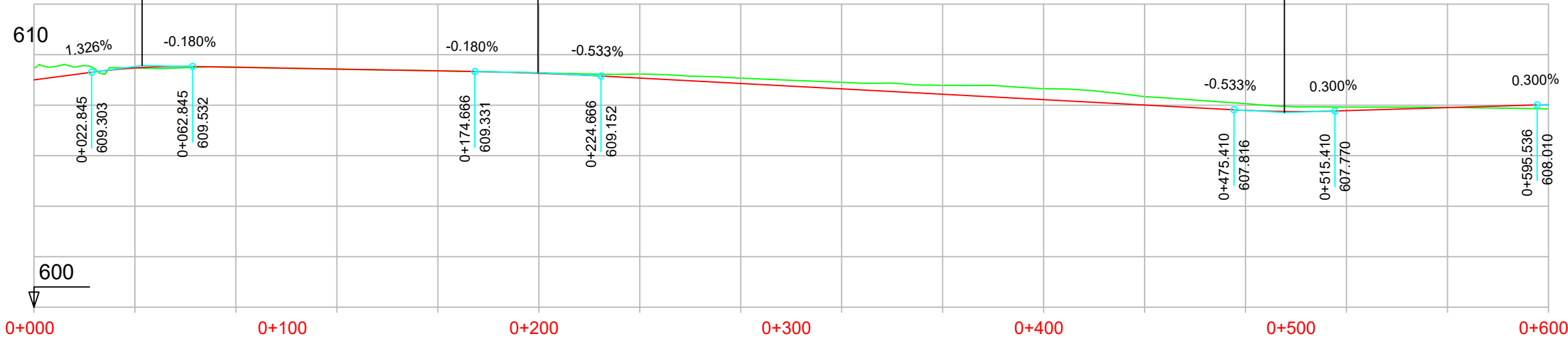
— RASANTE

— TERRENO

PK= 0+042.845  
CV= 609.568  
KV= 2656.484  
W = -0.015  
Lv= 40.000  
D = 0.075

PK= 0+199.666  
CV= 609.286  
KV= 14176.598  
W = -0.004  
Lv= 50.000  
D = 0.022

PK= 0+495.410  
CV= 607.710  
KV= 4803.241  
W = 0.008  
Lv= 40.000  
D = -0.042



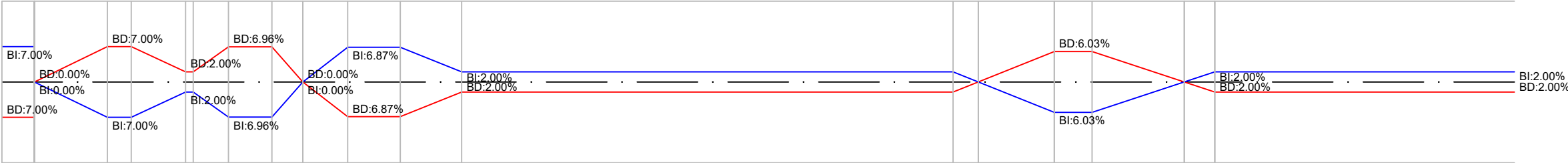
P.K.		
COTAS	RASANTE	TERRENO

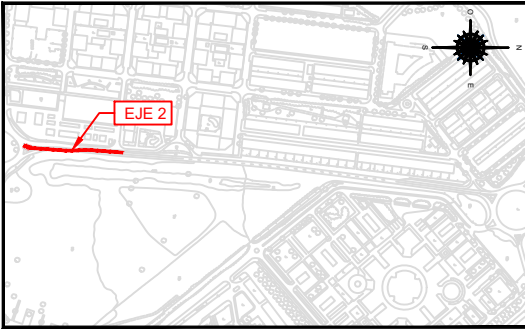
609.000	609.475	609.501	609.429	609.357	609.262	609.071	608.858	608.644	608.431	608.218	608.005	607.794	607.784	607.904	608.019
609.45	609.47	609.50	609.42	609.36	609.28	609.23	609.07	608.90	608.79	608.65	608.34	608.06	607.92	607.91	607.86

**DIAGRAMA DE CURVATURAS**



**DIAGRAMA DE PERALTES**



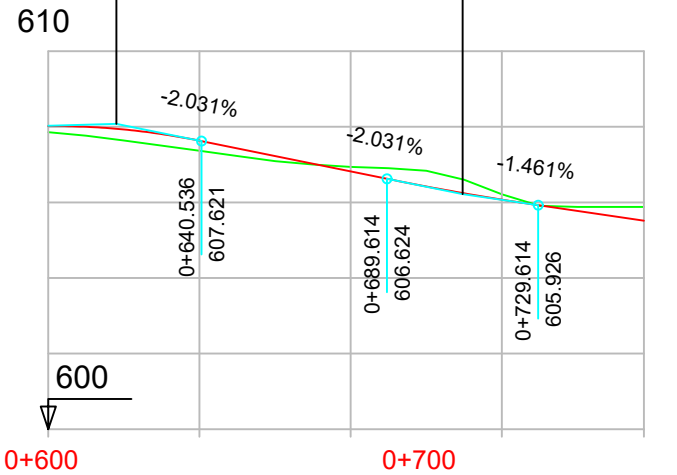


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 2  
PK 0+600 - 0+757,595

PK= 0+618.036  
CV= 608.078  
KV= 1930.428  
W = -0.023  
Lv= 45.000  
D = 0.131

PK= 0+709.614  
CV= 606.218  
KV= 7010.810  
W = 0.006  
Lv= 40.000  
D = -0.029



P.K.		
COTAS	RASANTE	TERRENO

P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS		

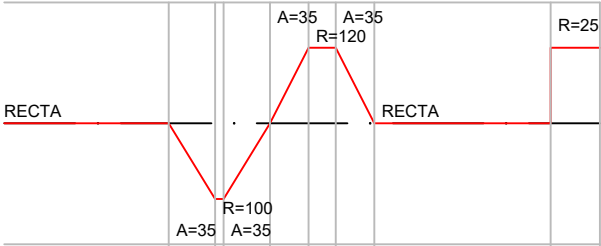
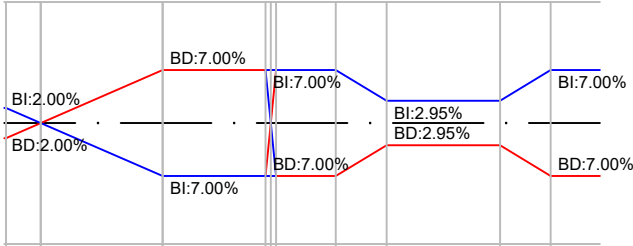
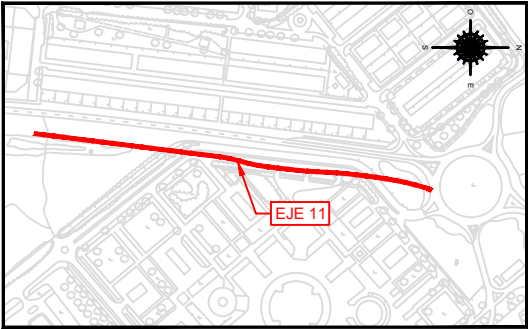


DIAGRAMA DE PERALTES		





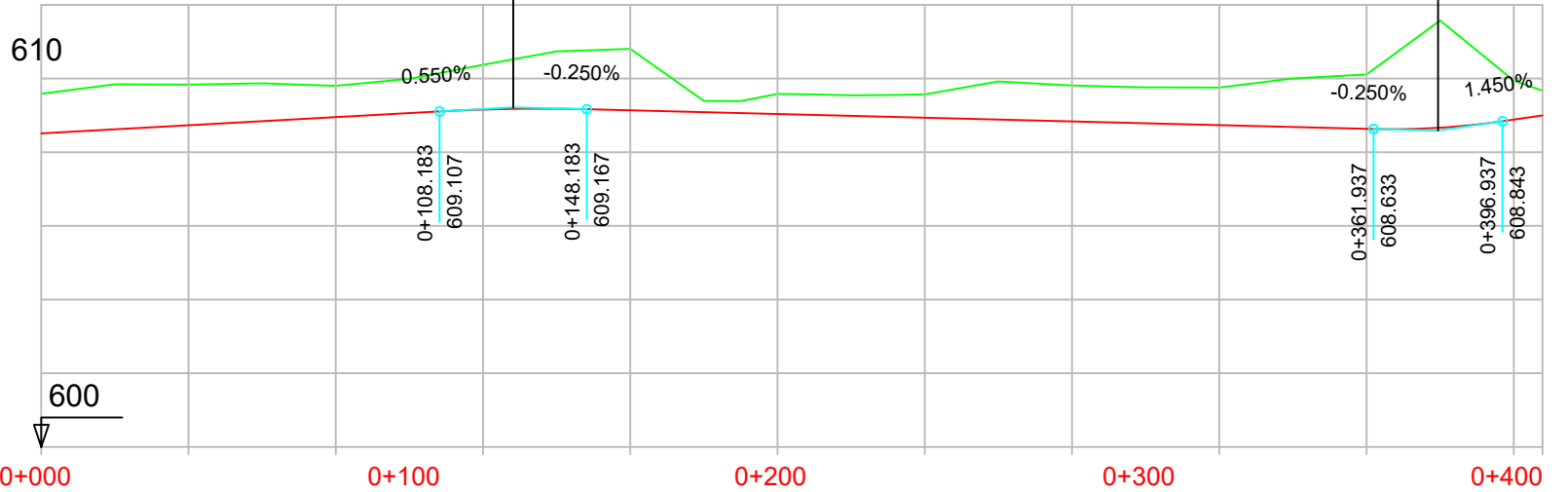


EJE 11  
PK 0+000 - 0+407,790

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

PK=	0+128.183
CV=	609.217
KV=	5000.000
W =	-0.008
Lv=	40.000
D =	0.040

PK=	0+379.437
CV=	608.589
KV=	2058.824
W =	0.017
Lv=	35.000
D =	-0.074



P.K.		
COTAS	RASANTE	TERRENO

608.512	609.59	608.732	609.84	608.952	609.81	609.158	610.37	609.137	610.80	609.037	609.59	608.937	609.57	608.837	609.81	608.737	609.76	608.637	610.11	608.887	609.000	609.94	609.67
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DIAGRAMA DE CURVATURAS	
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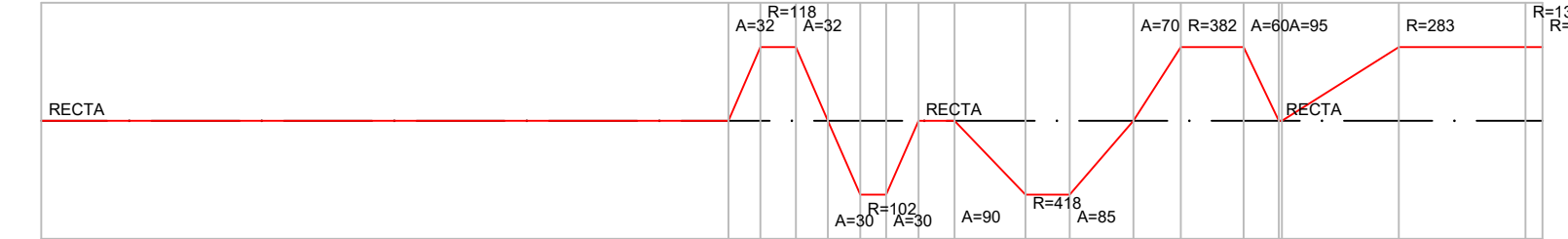
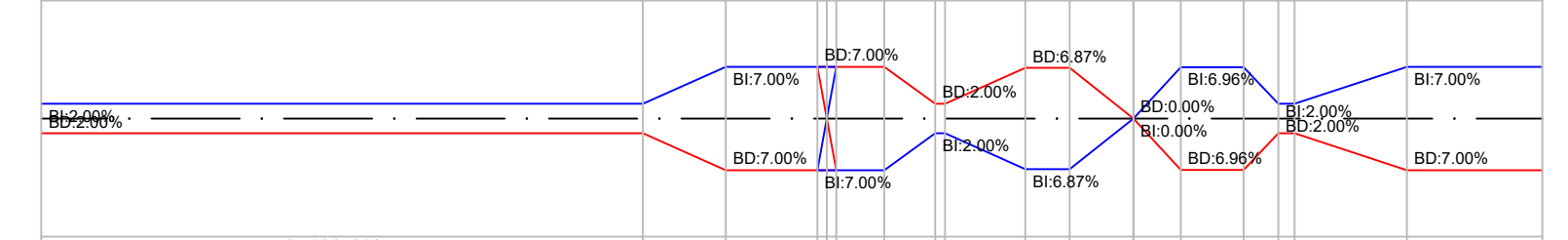
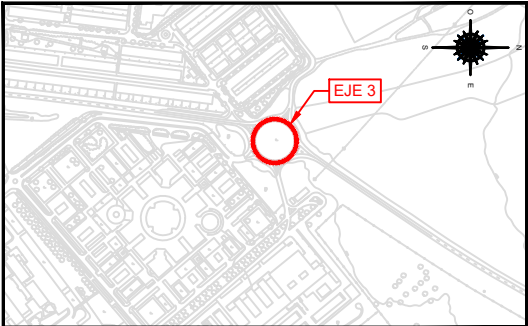


DIAGRAMA DE PERALTES	
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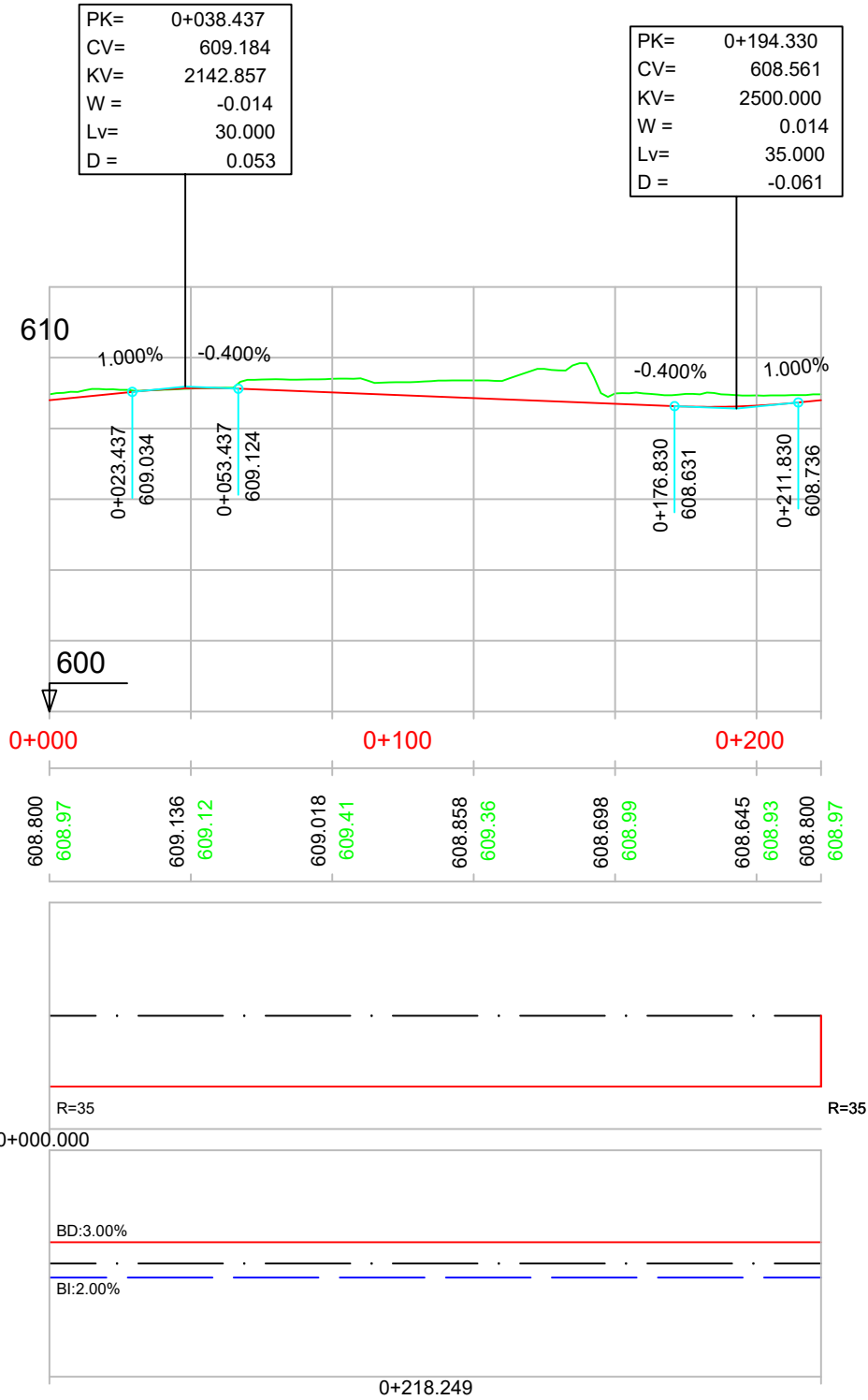


**LEYENDA**

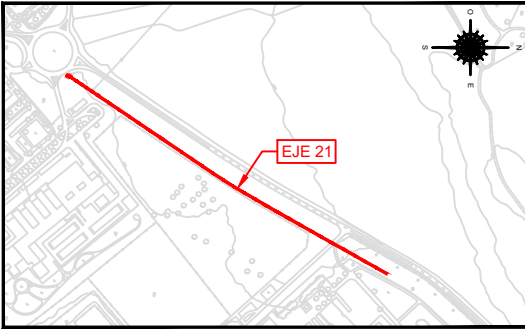
— RASANTE

— TERRENO

EJE 3  
PK 0+000 - 0+218,249







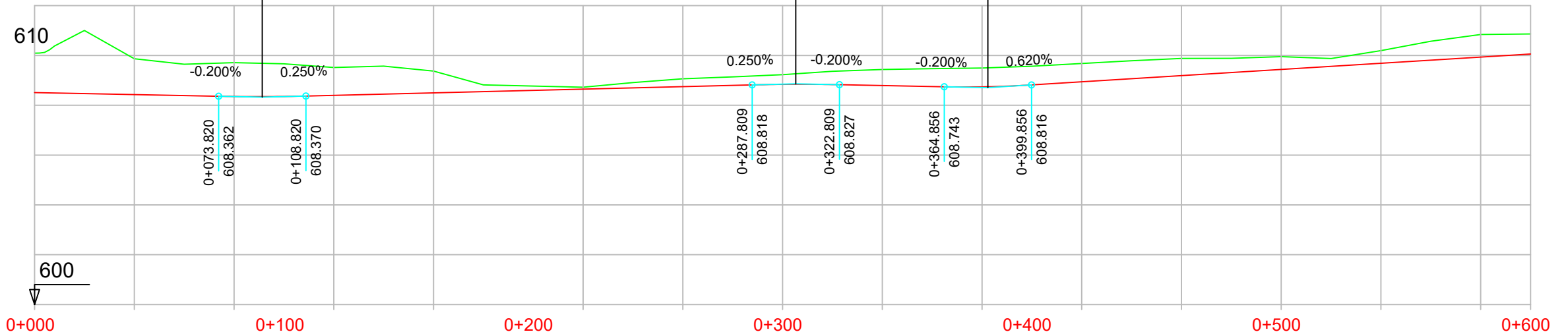
EJE-21  
PK 0+000 - 0+600

**LEYENDA**  
— RASANTE  
— TERRENO

PK= 0+091.320  
CV= 608.327  
KV= 7777.778  
W = 0.004  
Lv= 35.000  
D = -0.020

PK= 0+305.309  
CV= 608.862  
KV= 7777.778  
W = -0.004  
Lv= 35.000  
D = 0.020

PK= 0+382.356  
CV= 608.708  
KV= 4268.293  
W = 0.008  
Lv= 35.000  
D = -0.036



P.K.	COTAS	
	RASANTE	TERRENO
0+000	608.509	610.09
0+050	608.429	609.87
0+100	608.352	609.71
0+150	608.398	609.52
0+200	608.498	609.37
0+250	608.648	608.72
0+300	608.748	609.06
0+350	608.839	609.23
0+400	608.792	609.43
0+450	608.739	609.49
0+500	608.941	609.68
0+550	609.189	609.88
0+600	609.437	609.95
0+650	609.685	610.19
0+700	609.933	610.84
0+750	610.057	610.86

DIAGRAMA  
DE  
CURVATURAS

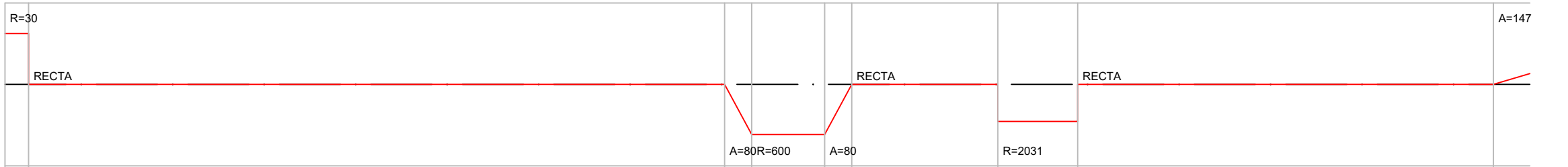
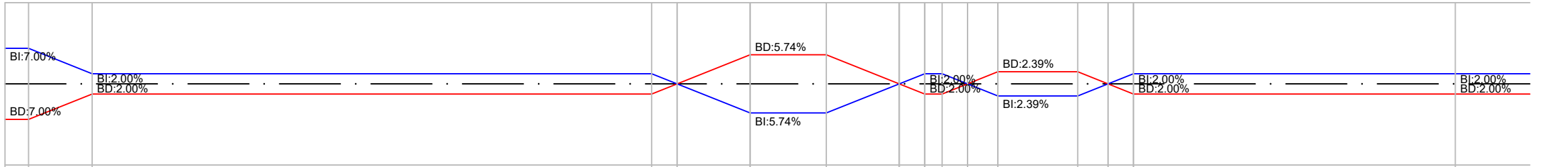
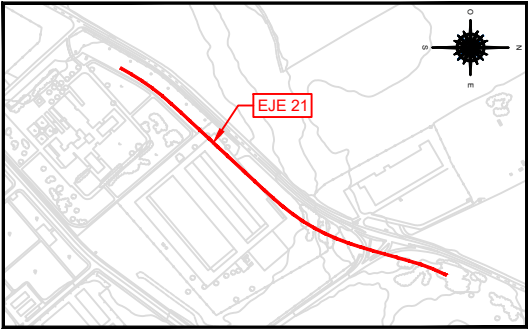


DIAGRAMA  
DE  
PERALTES



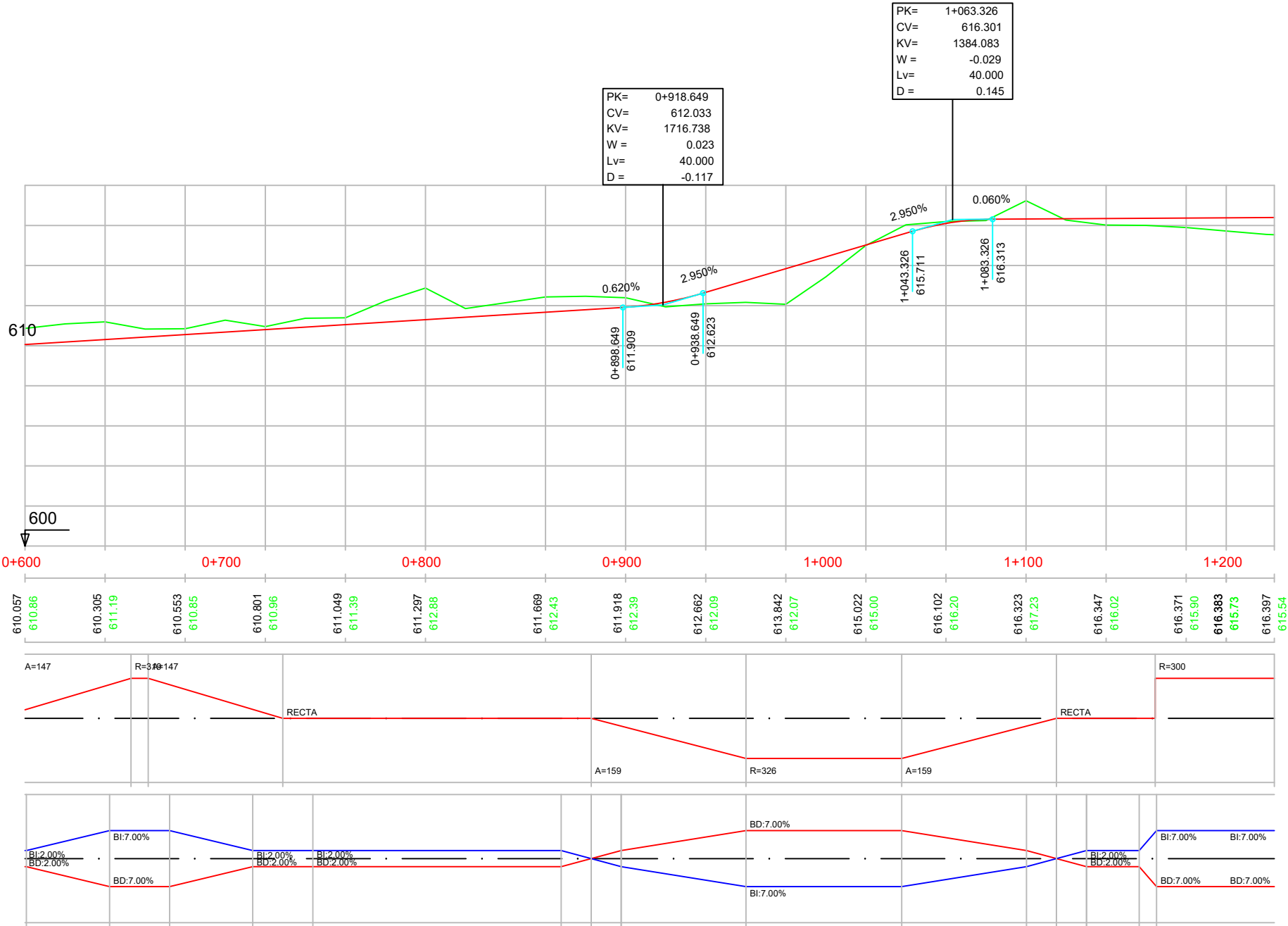


EJE 21  
PK 0+600 - 1+224,020

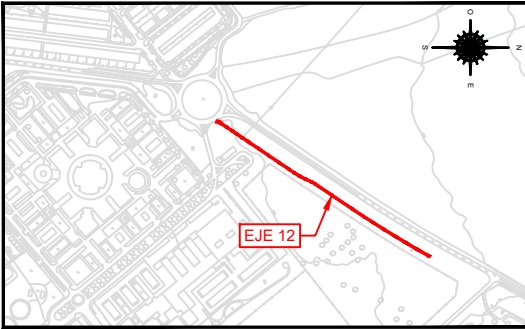
**LEYENDA**

— RASANTE

— TERRENO







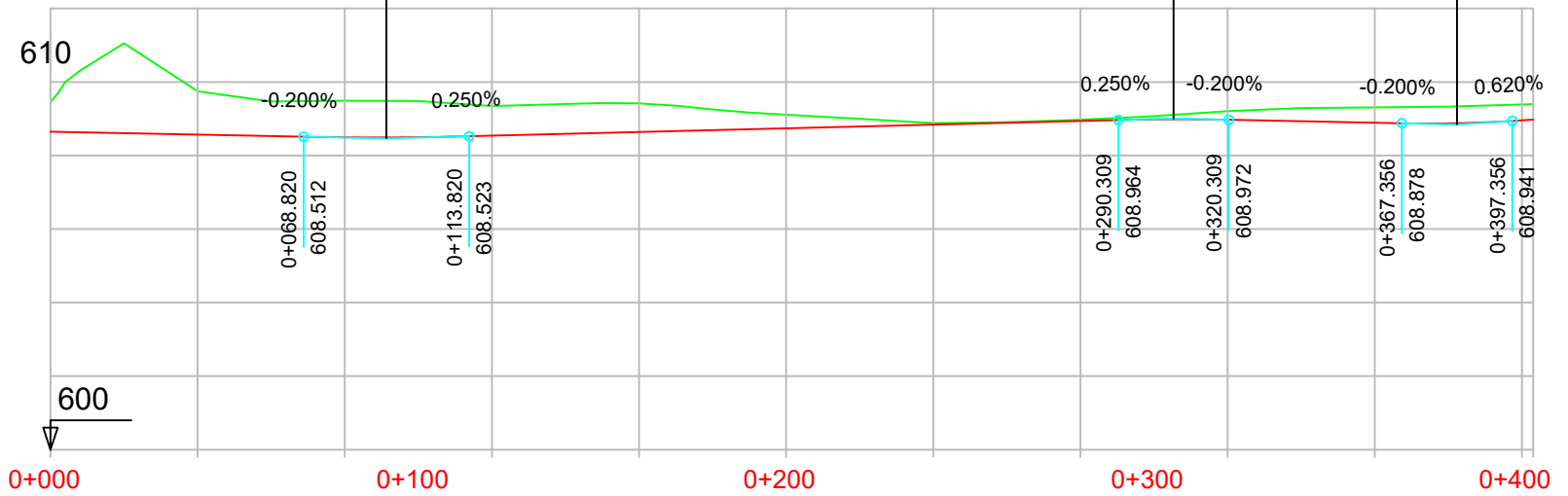
EJE 12  
PK 0+000 - 0+403,069

**LEYENDA**  
— RASANTE  
— TERRENO

PK= 0+091.320  
CV= 608.467  
KV= 10000.000  
W = 0.004  
Lv= 45.000  
D = -0.025

PK= 0+305.309  
CV= 609.002  
KV= 6666.667  
W = -0.004  
Lv= 30.000  
D = 0.017

PK= 0+382.356  
CV= 608.848  
KV= 3658.537  
W = 0.008  
Lv= 30.000  
D = -0.031



P.K.	COTAS	
	RASANTE	TERRENO

608.649	609.46	608.569	609.75	608.496	609.49	608.538	609.35	608.638	609.42	608.738	609.11	608.838	608.88	608.938	608.97	608.972	609.21	608.892	609.31	608.957	608.976	609.39	609.40
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DIAGRAMA  
DE  
CURVATURAS

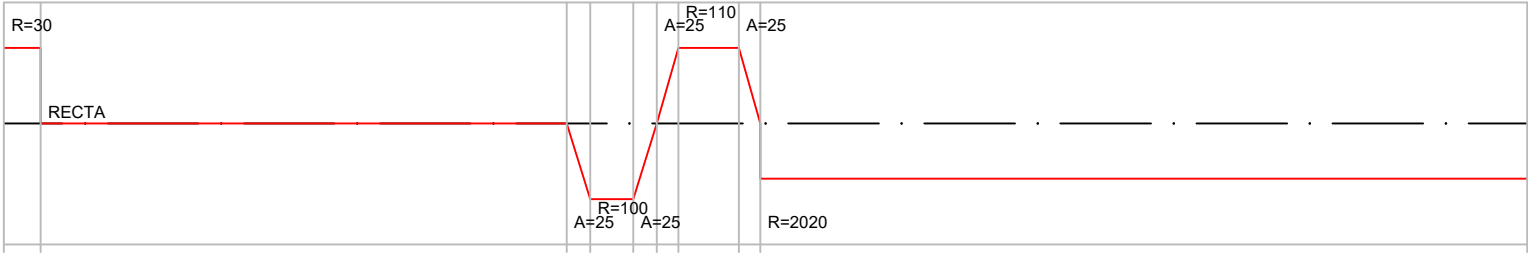
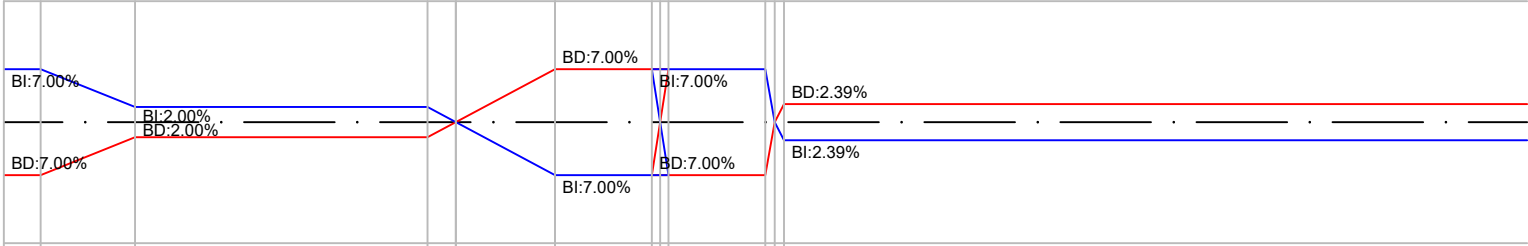
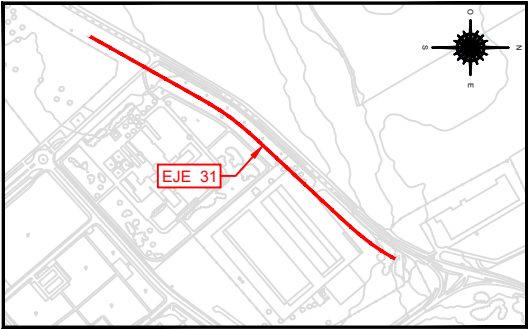


DIAGRAMA  
DE  
PERALTES

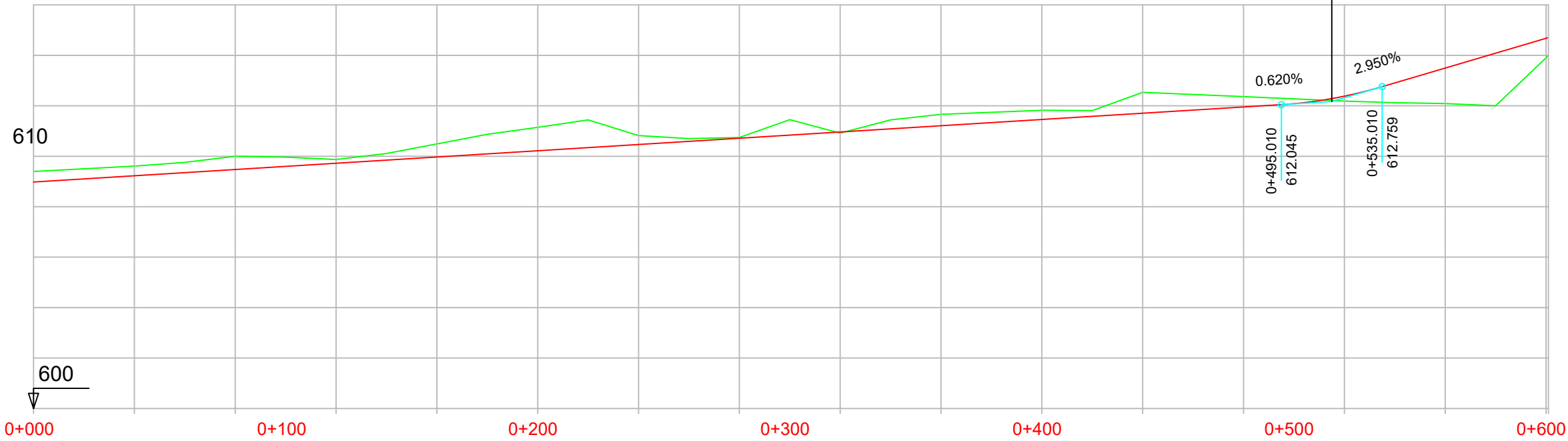




EJE 31  
PK 0+000 - 0+600,927

PK= 0+515.010  
CV= 612.169  
KV= 1716.738  
W = 0.023  
Lv= 40.000  
D = -0.117

**LEYENDA**  
— RASANTE  
— TERRENO

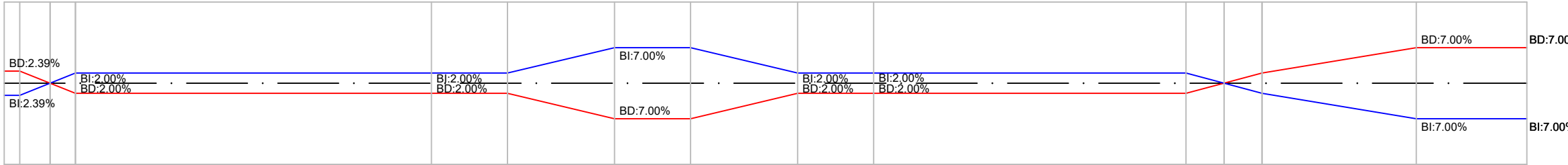
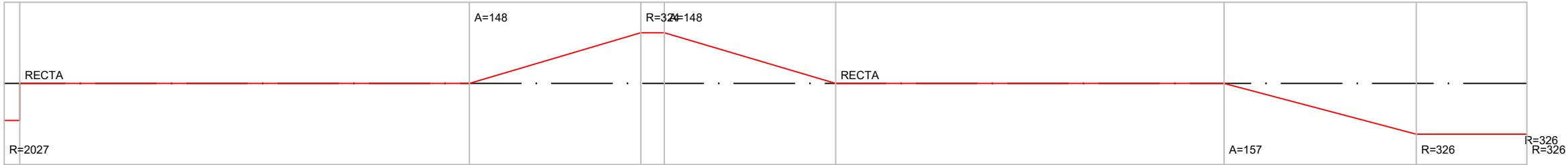


P.K.		
COTAS	RASANTE	TERRENO

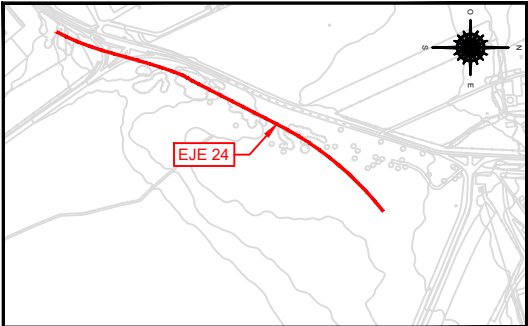
DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES

608.976	609.40	609.224	609.61	609.472	610.00	609.720	609.87	609.968	610.49	610.216	611.15	610.464	610.82	610.712	610.74	610.960	610.92	611.208	611.66	611.456	611.82	611.704	612.53	611.952	612.36	612.382	612.19	613.496	612.09	614.676	614.704	613.90	614.01
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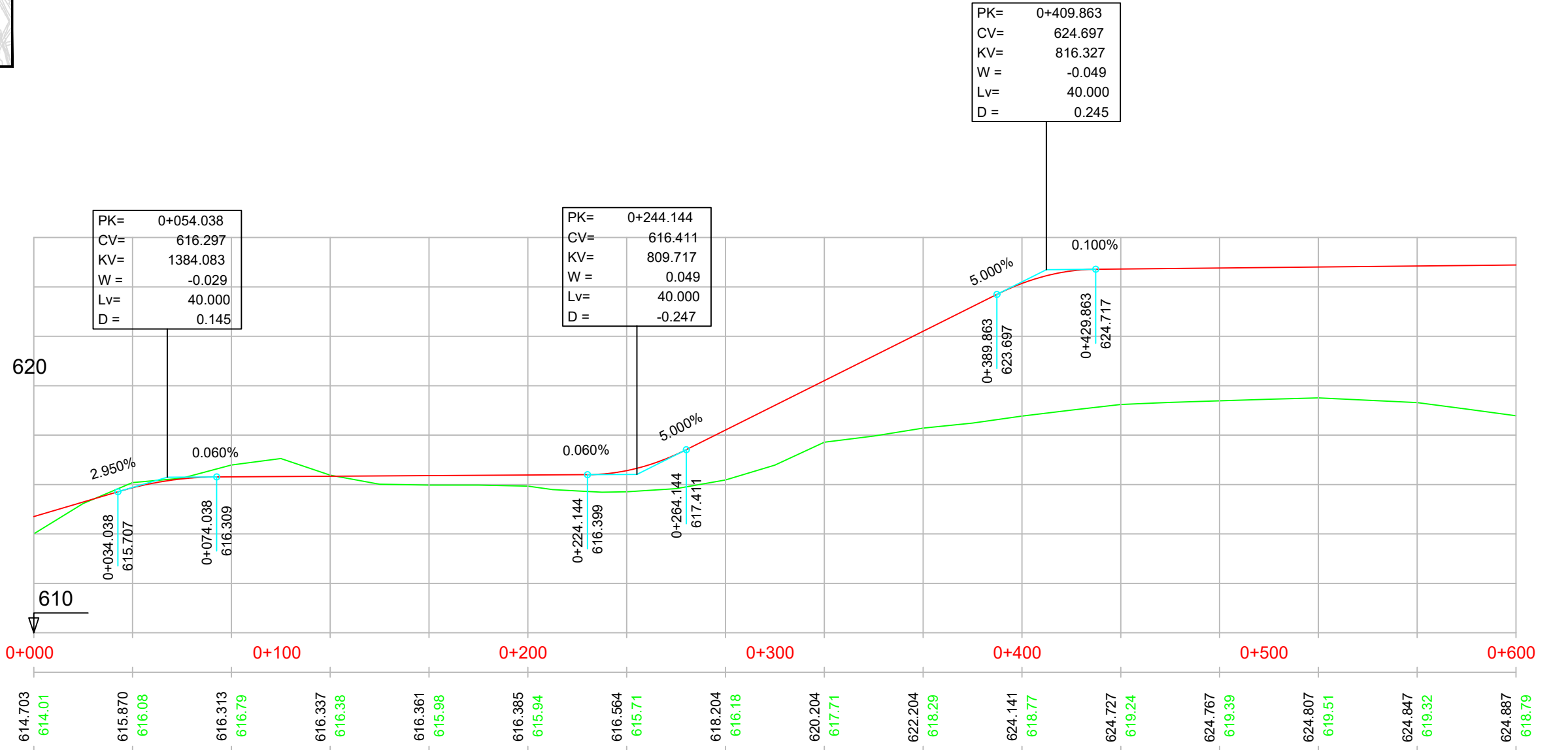






EJE 24  
PK 0+000 - 0+600

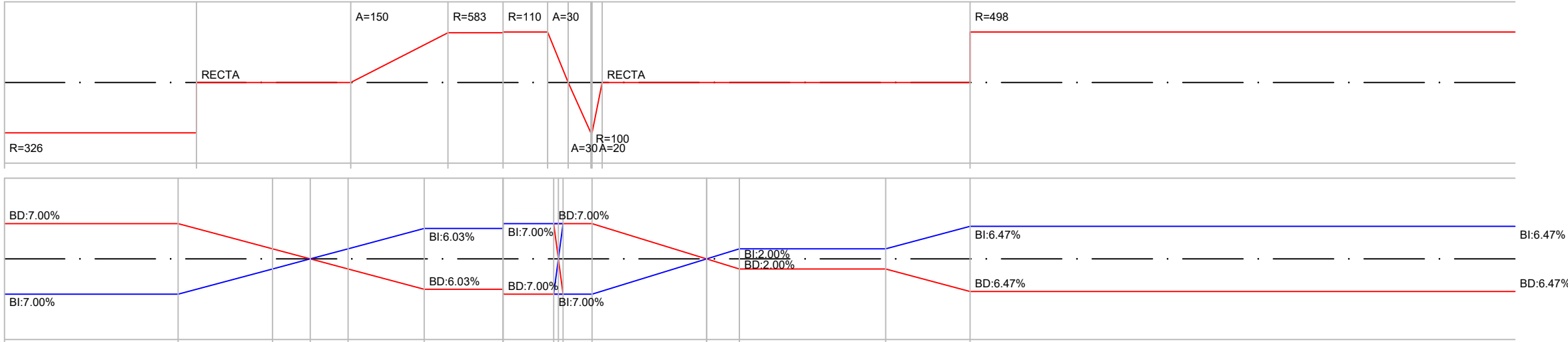
**LEYENDA**  
— RASANTE  
— TERRENO



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES



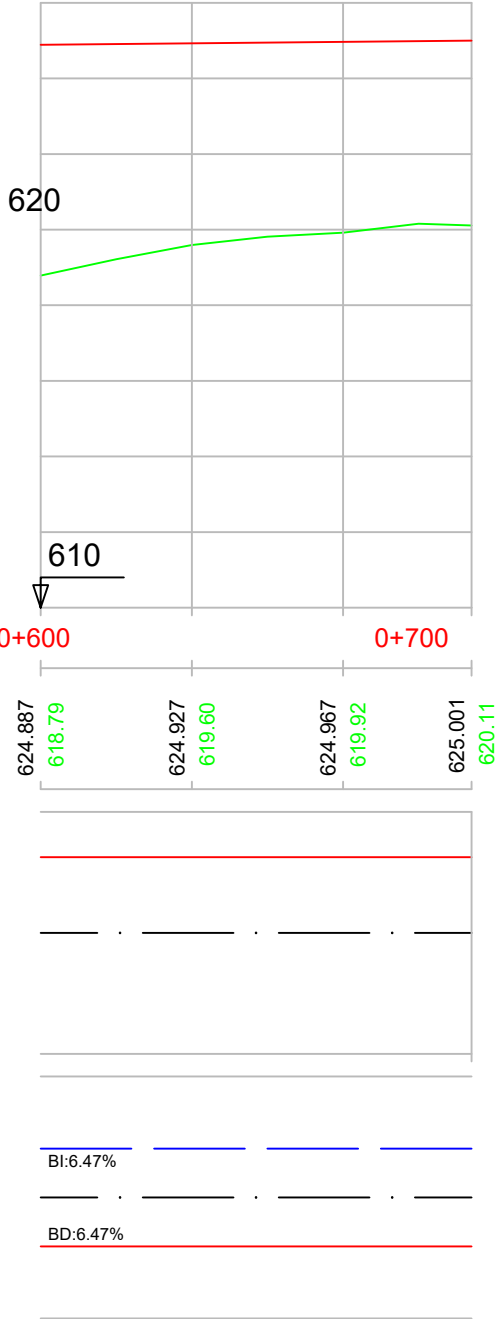


EJE 24  
PK 0+600 - 0+714,012

LEYENDA

RASANTE

TERRENO



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES



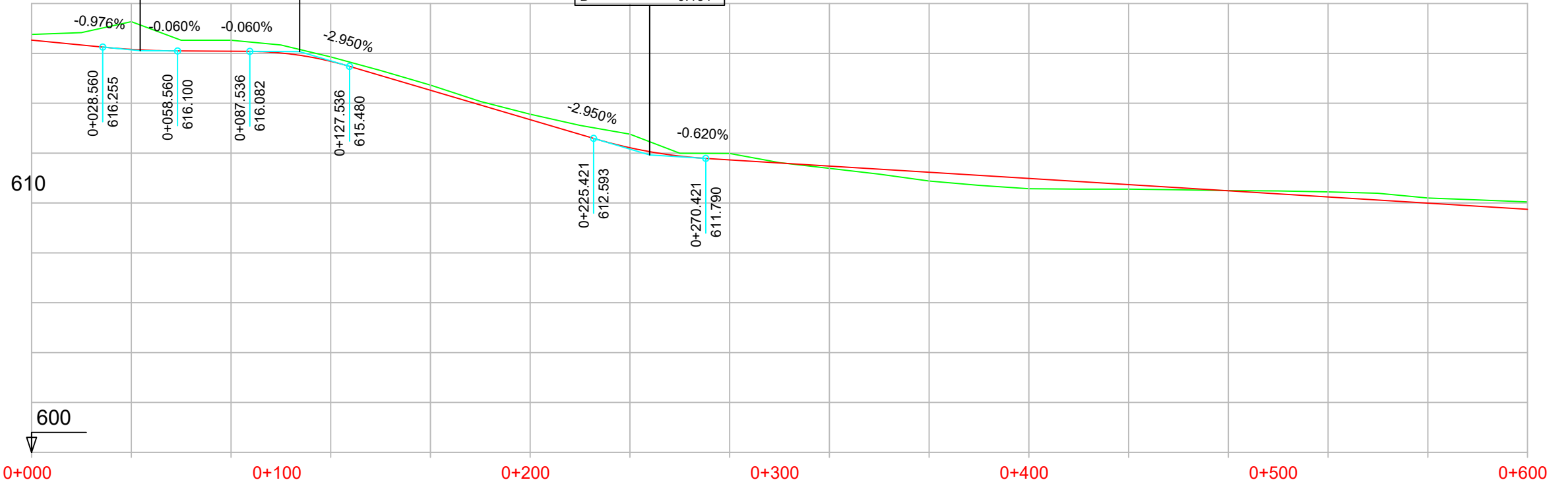


ENLACE 32  
PK 0+000 - 0+600

PK=	0+043.560	PK=	0+107.536
CV=	616.109	CV=	616.070
KV=	3274.394	KV=	1384.083
W=	0.009	W=	-0.029
Lv=	30.000	Lv=	40.000
D=	-0.034	D=	0.145

PK=	0+247.921
CV=	611.929
KV=	1931.330
W=	0.023
Lv=	45.000
D=	-0.131

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

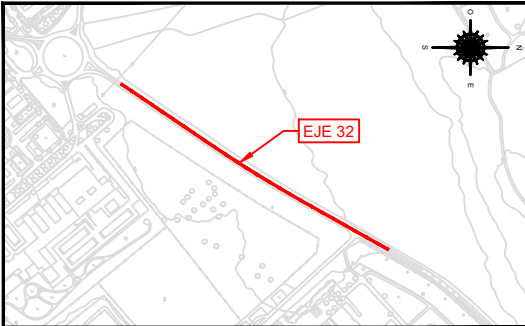


P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200	0+300	0+400	0+500	0+600
616.534	616.164	616.087	615.682	614.523	613.343	612.218
616.76	617.27	616.53	615.86	614.73	613.56	612.76
						611.730
						611.99
						611.482
						611.39
						611.234
						610.88
						610.986
						610.57
						610.738
						610.56
						610.490
						610.50
						610.242
						610.45
						609.994
						610.20
						609.746
						610.05

DIAGRAMA DE CURVATURAS	
RECTA	R=319
	A=151
RECTA	
	A=154
	R=342 A=154
RECTA	

DIAGRAMA DE PERALTES	
BI:2.00%	BD:2.00%
BI:7.00%	BD:7.00%
BI:2.00%	BD:2.00%
BI:7.00%	BD:7.00%
BI:2.00%	BD:2.00%



EJE 32  
PK 0+600 - 1+163,110

**LEYENDA**

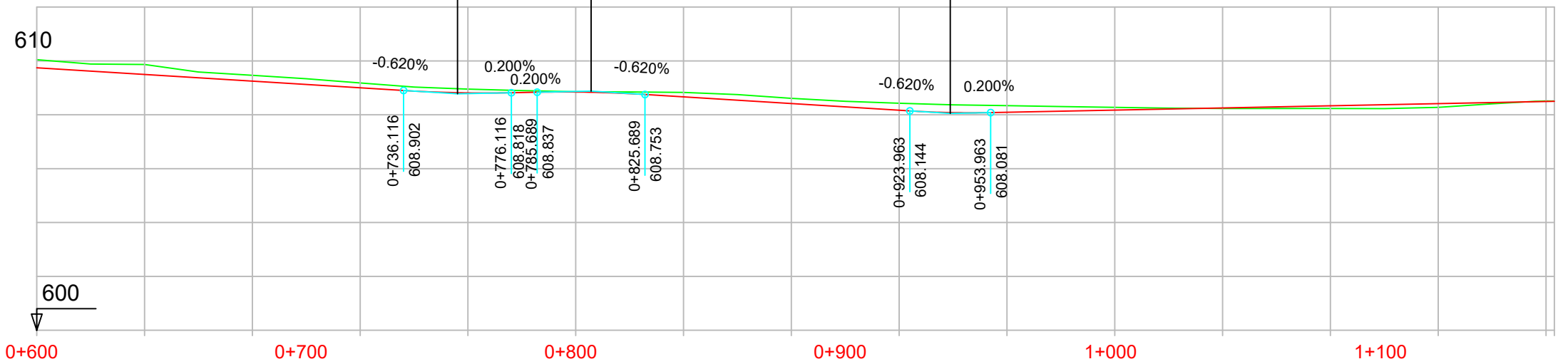
— RASANTE

— TERRENO

PK=	0+756.116
CV=	608.778
KV=	4878.049
W =	0.008
Lv=	40.000
D =	-0.041

PK=	0+805.689
CV=	608.877
KV=	4878.049
W =	-0.008
Lv=	40.000
D =	0.041

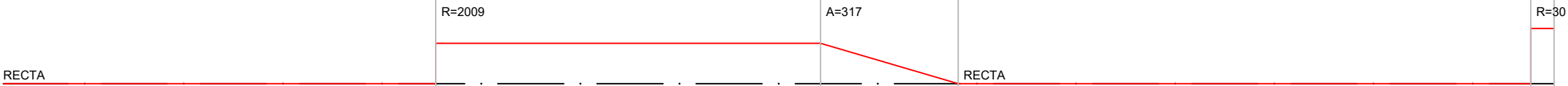
PK=	0+938.963
CV=	608.051
KV=	3658.537
W =	0.008
Lv=	30.000
D =	-0.031



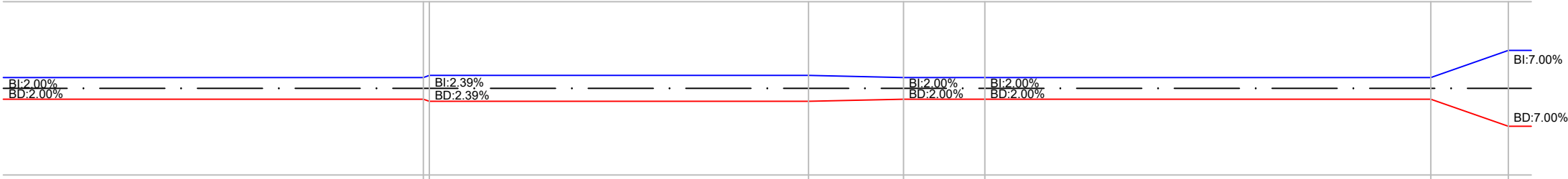
P.K.		
COTAS	RASANTE	TERRENO

609.746	609.498	609.250	609.002	608.813	608.845	608.665	608.417	608.169	608.093	608.173	608.253	608.333	608.413	608.493
610.05	609.87	609.47	609.18	608.95	608.85	608.83	608.61	608.43	608.34	608.27	608.23	608.23	608.27	608.51

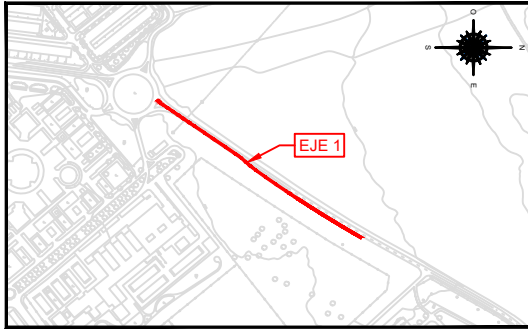
**DIAGRAMA DE CURVATURAS**



**DIAGRAMA DE PERALTES**







EJE 1  
PK 0+000 - 0+391,787

**LEYENDA**

— RASANTE

— TERRENO

PK= 0+032.706  
CV= 609.027  
KV= 3658.537  
W = -0.008  
Lv= 30.000  
D = 0.031

PK= 0+179.999  
CV= 608.114  
KV= 4022.989  
W = 0.009  
Lv= 35.000  
D = -0.038

PK= 0+243.137  
CV= 608.272  
KV= 60000.000  
W = -0.000  
Lv= 30.000  
D = 0.002



P.K.		
COTAS	RASANTE	TERRENO

P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

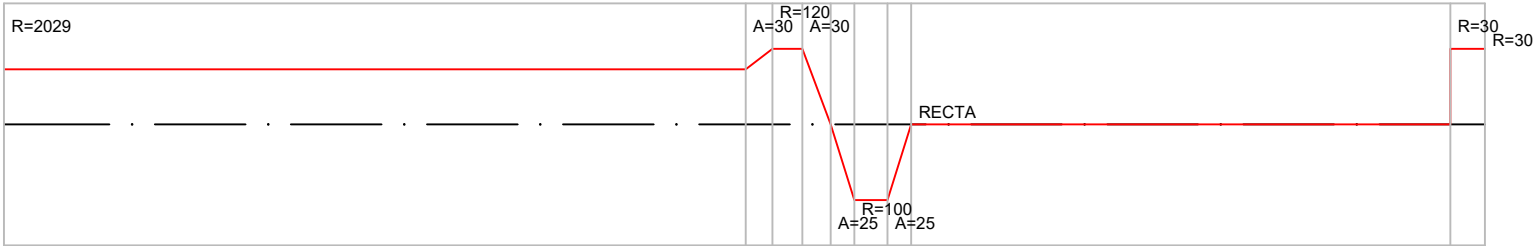
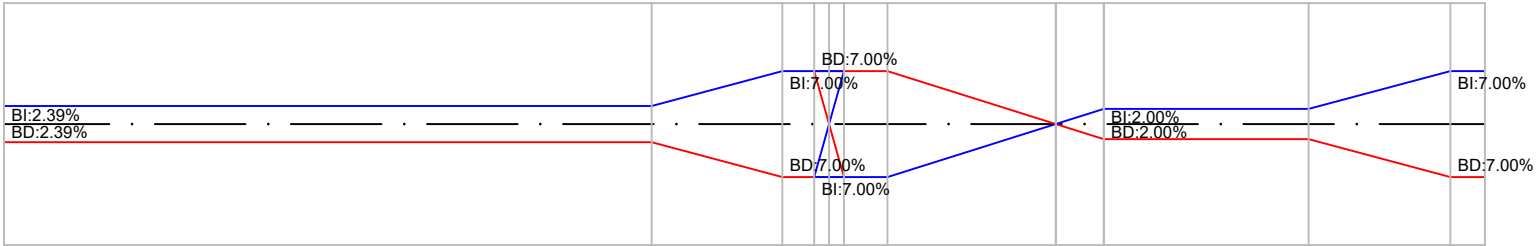
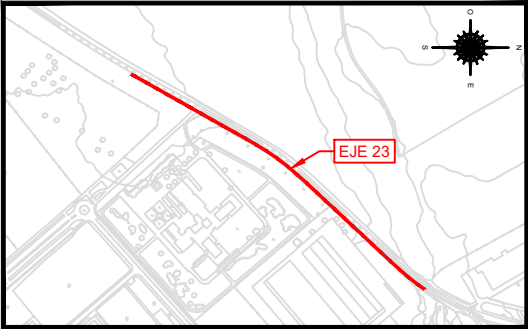


DIAGRAMA  
DE  
PERALTES





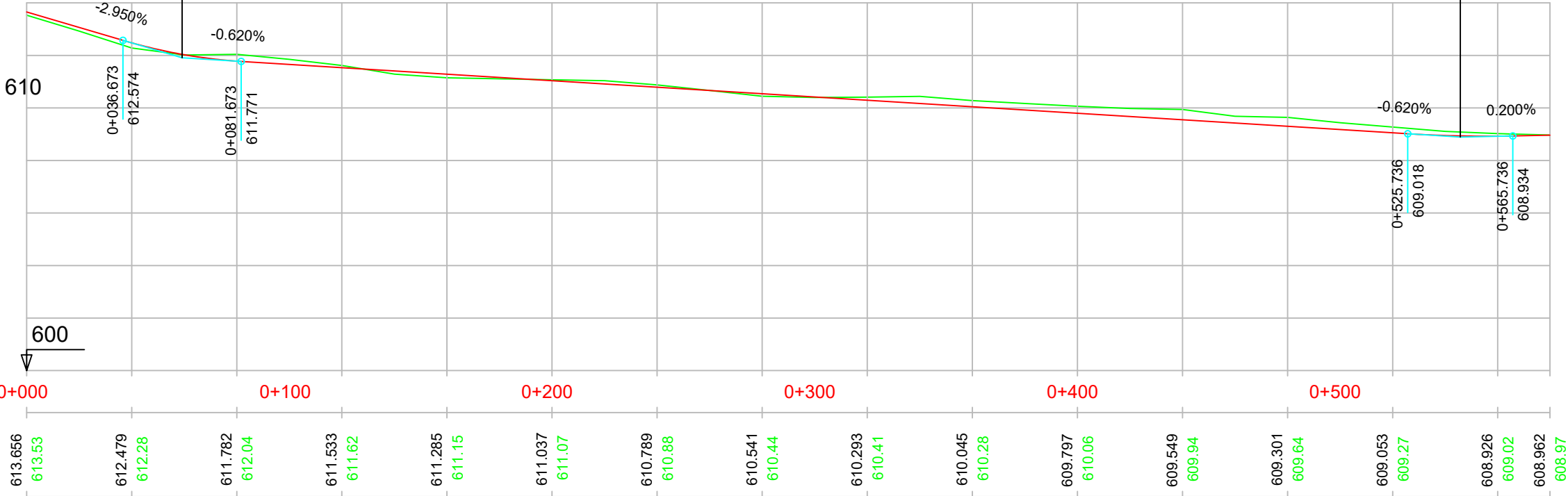
EJE 23  
PK 0+000 - 0+579,879

LEYENDA

- RASANTE
- TERRENO

PK=	0+059.173
CV=	611.910
KV=	1931.330
W =	0.023
Lv=	45.000
D =	-0.131

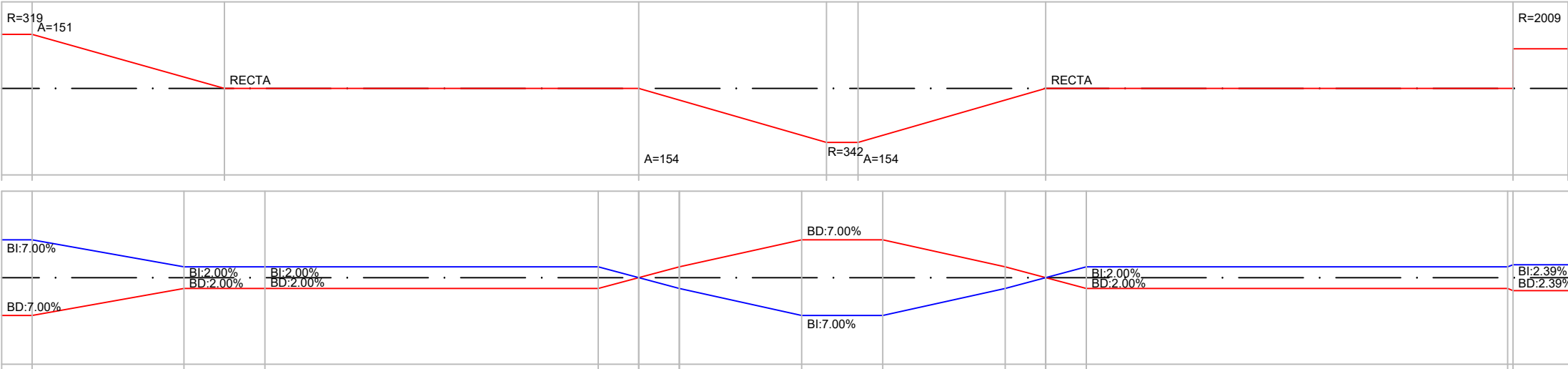
PK=	0+545.736
CV=	608.894
KV=	4878.049
W =	0.008
Lv=	40.000
D =	-0.041



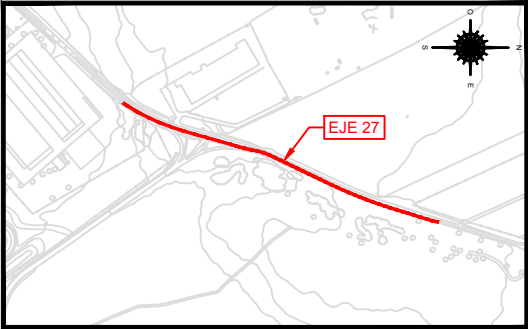
P.K.	RASANTE	TERRENO
COTAS		

DIAGRAMA DE CURVATURAS

DIAGRAMA DE PERALTES



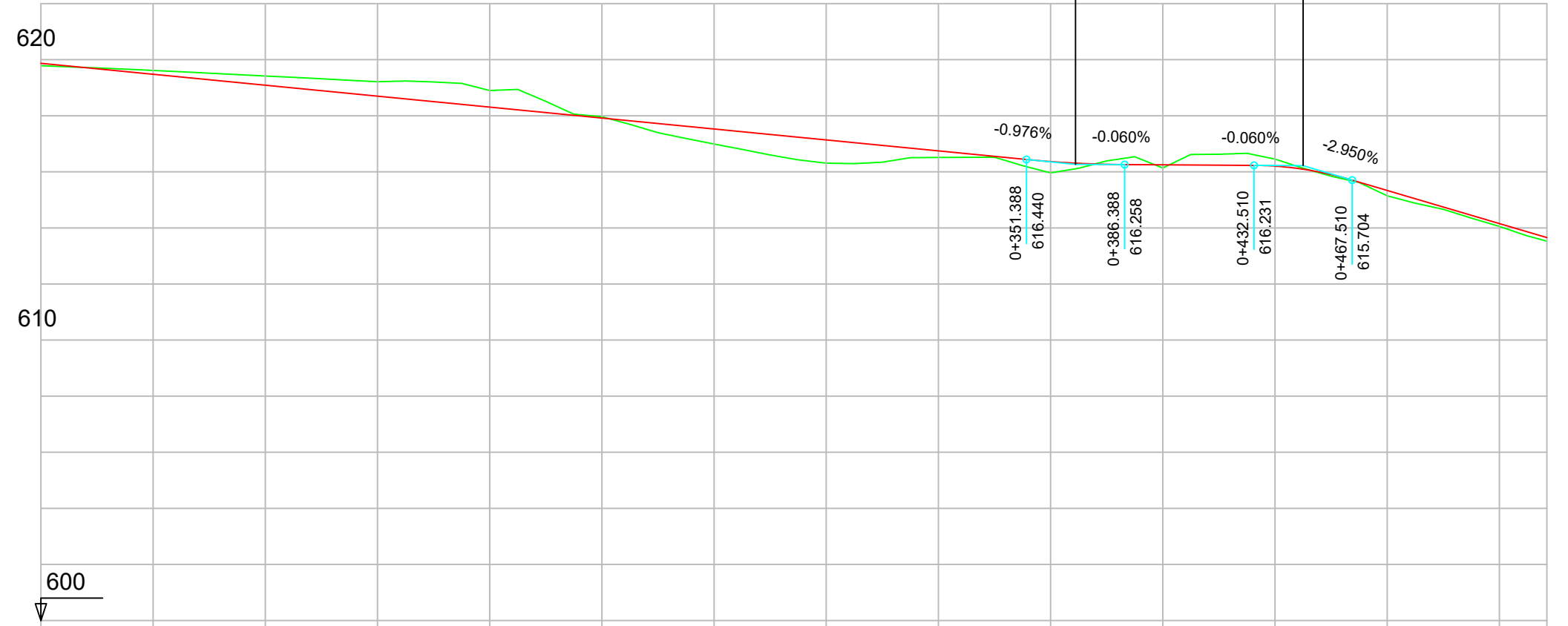




EJE 27  
PK 0+000 - 0+536,931

PK=	0+368.888	PK=	0+450.010
CV=	616.269	CV=	616.220
KV=	3820.039	KV=	1211.073
W =	0.009	W =	-0.029
Lv=	35.000	Lv=	35.000
D =	-0.040	D =	0.126

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200	0+300	0+400	0+500
619.870	619.480	619.089	618.699	618.308	617.918
619.79	619.62	619.42	619.21	618.90	617.96
617.527	617.137	616.746	616.355	616.250	616.203
616.99	616.31	616.51	615.96	616.14	616.45
615.335	614.155	613.656	613.53		
615.15	614.05				

DIAGRAMA DE CURVATURAS	
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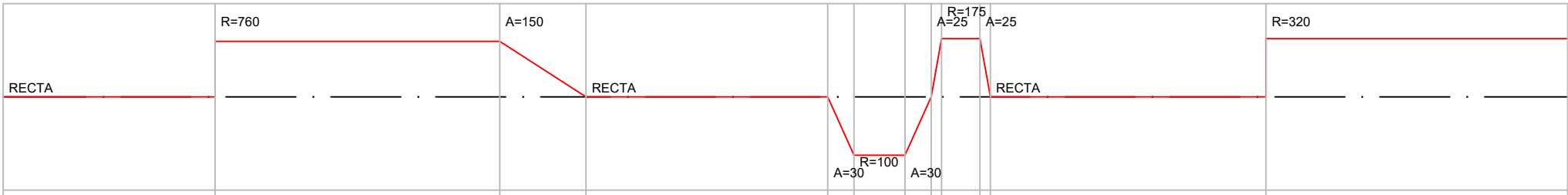
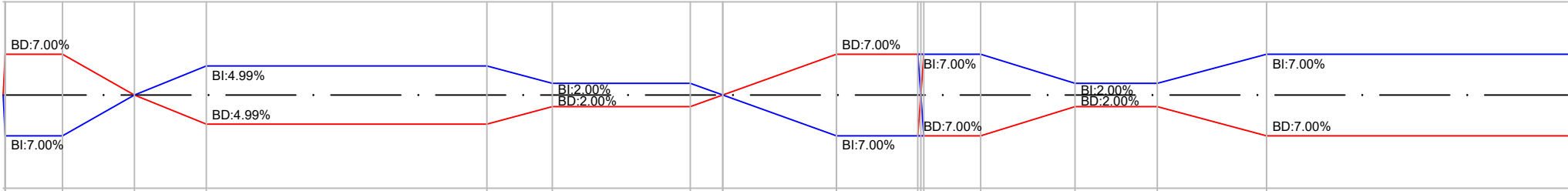


DIAGRAMA DE PERALTES	
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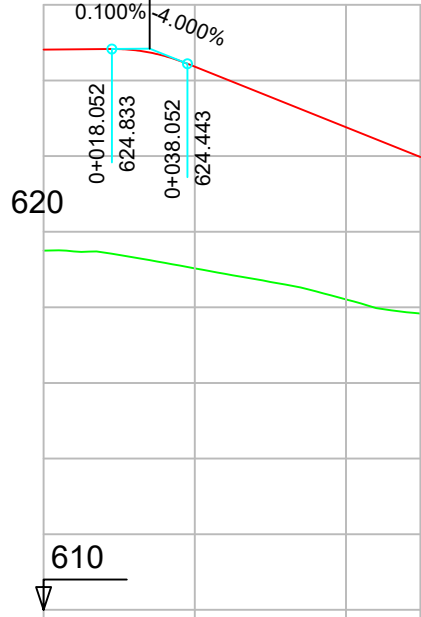
LEYENDA

RASANTE

TERRENO

EJE 20  
PK 0+000 - 0+099,671

PK= 0+028.052  
CV= 624.843  
KV= 487.805  
W = -0.041  
Lv= 20.000  
D = 0.102



P.K.		
COTAS	RASANTE	TERRENO

624.815	624.365	622.765	621.978
619.50	619.03	618.21	617.84

DIAGRAMA  
DE  
CURVATURAS

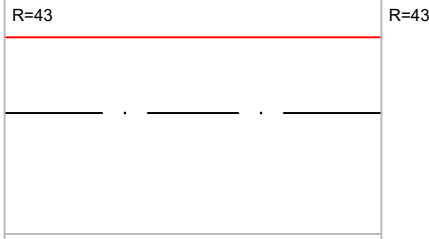
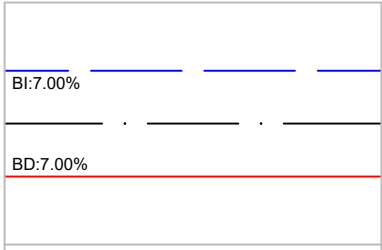


DIAGRAMA  
DE  
PERALTES







EJE 22  
PK 0+000 - 0+600

**LEYENDA**

— RASANTE

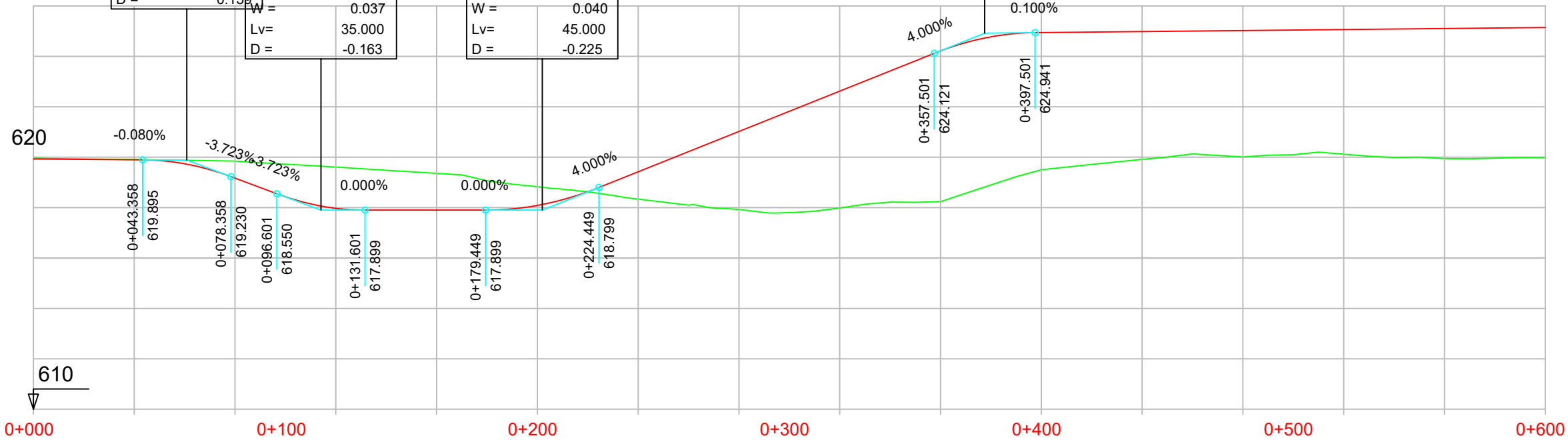
— TERRENO

PK= 0+060.858  
CV= 619.881  
KV= 960.891  
W = -0.036  
Lv= 35.000  
D = 0.159

PK= 0+114.101  
CV= 617.899  
KV= 940.164  
W = 0.037  
Lv= 35.000  
D = -0.163

PK= 0+201.949  
CV= 617.899  
KV= 1125.000  
W = 0.040  
Lv= 45.000  
D = -0.225

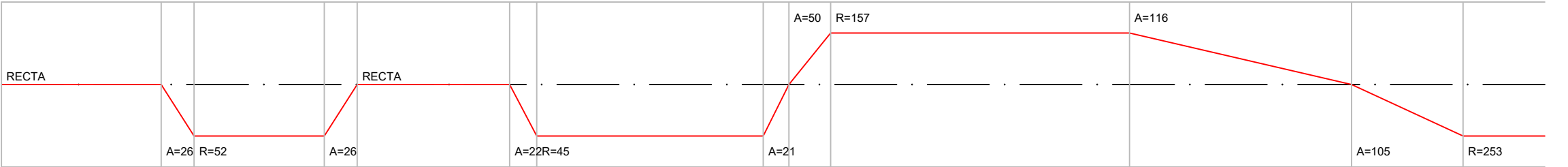
PK= 0+377.501  
CV= 624.921  
KV= 1025.641  
W = -0.039  
Lv= 40.000  
D = 0.195



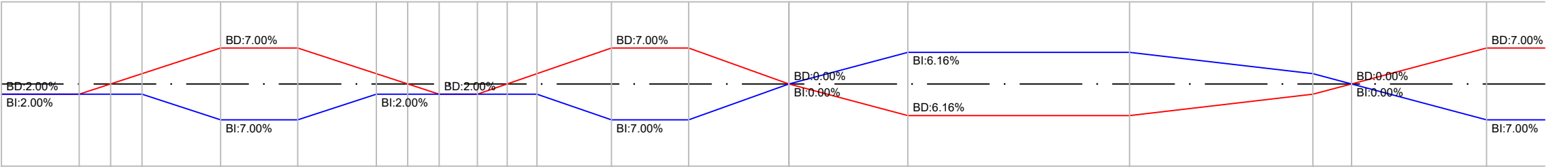
P.K.		
COTAS	RASANTE	TERRENO

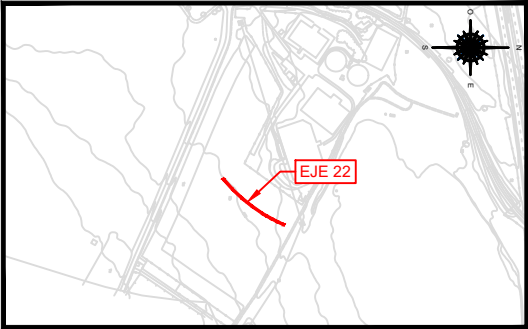
0+000		0+100		0+200		0+300		0+400		0+500		0+600																			
619.930	619.96	619.898	619.90	619.169	619.85	617.971	619.61	617.899	619.36	618.087	618.83	619.421	618.34	621.021	617.92	622.621	617.98	624.218	618.24	624.944	619.50	624.994	619.91	625.024	620.01	625.064	620.12	625.104	619.94	625.144	619.98

**DIAGRAMA DE CURVATURAS**



**DIAGRAMA DE PERALTES**



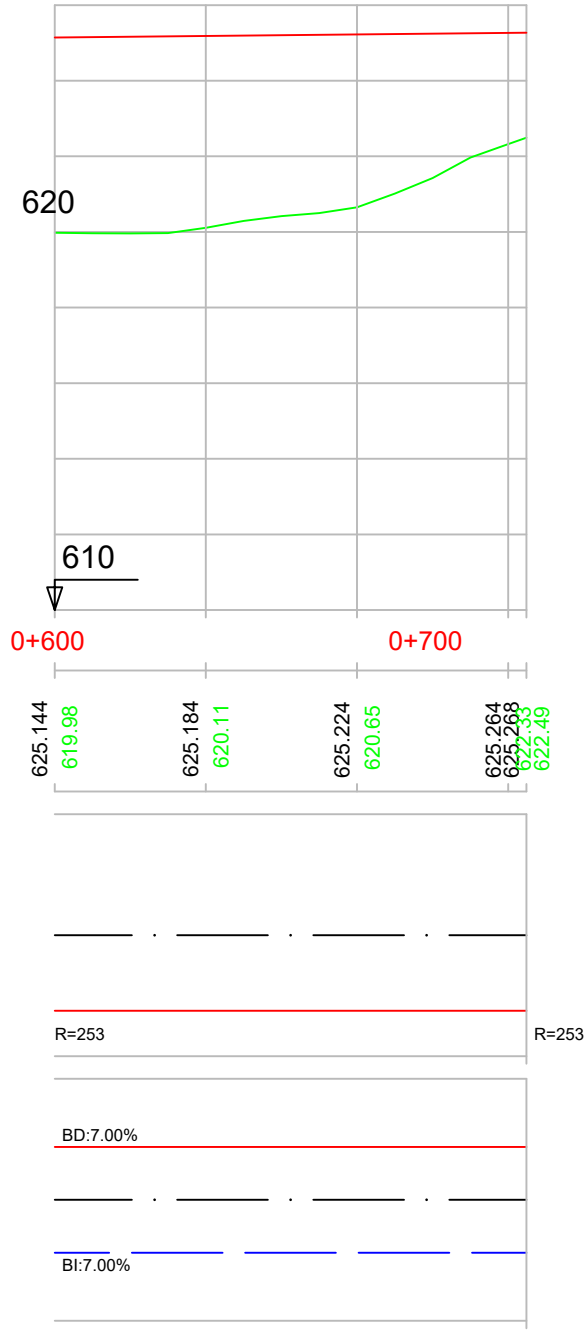


EJE 22  
PK 0+600 - 0+724,830

LEYENDA

RASANTE

TERRENO



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA

DE

CURVATURAS

DIAGRAMA

DE

PERALTES



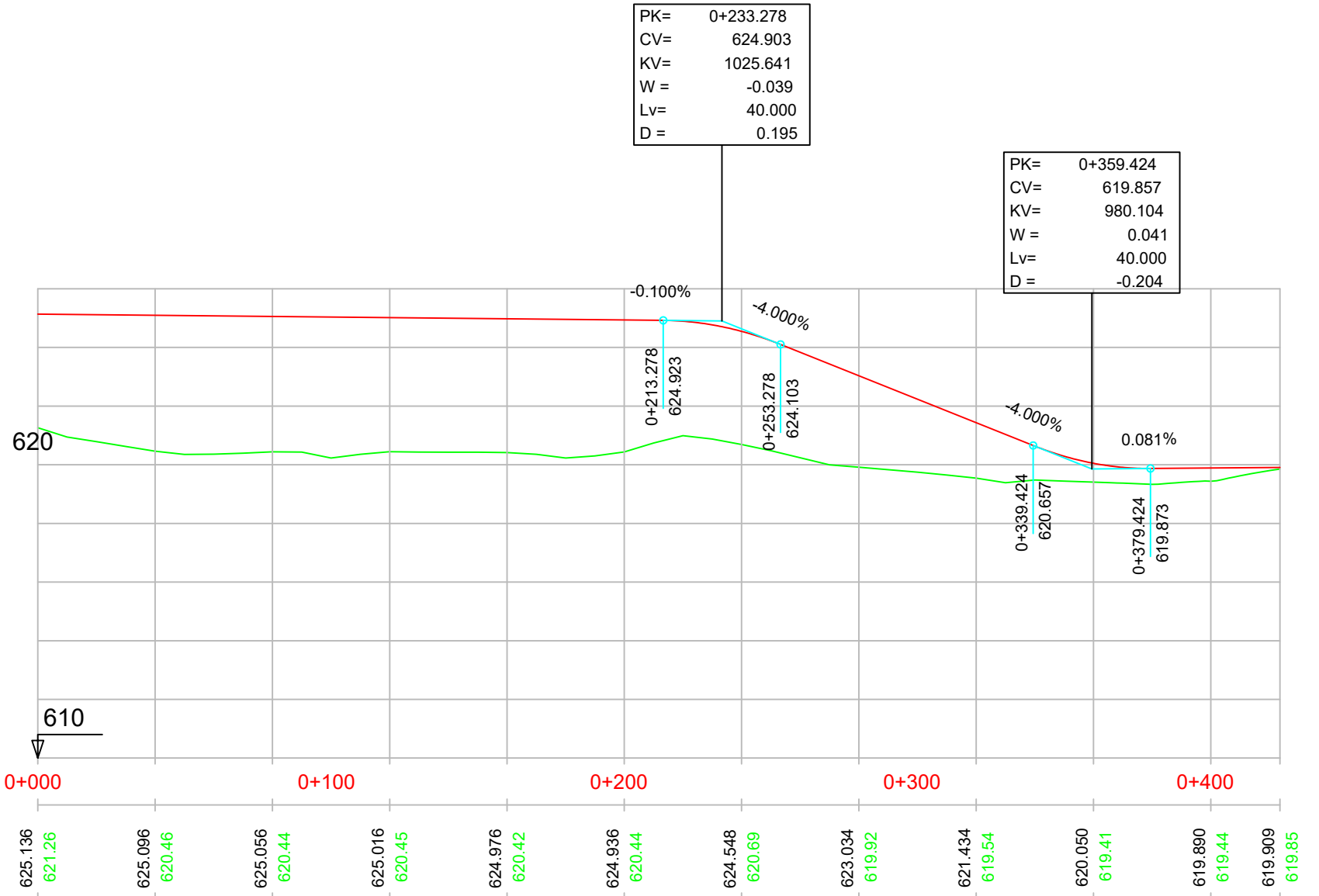


EJE 19  
PK 0+000 - 0+423,573

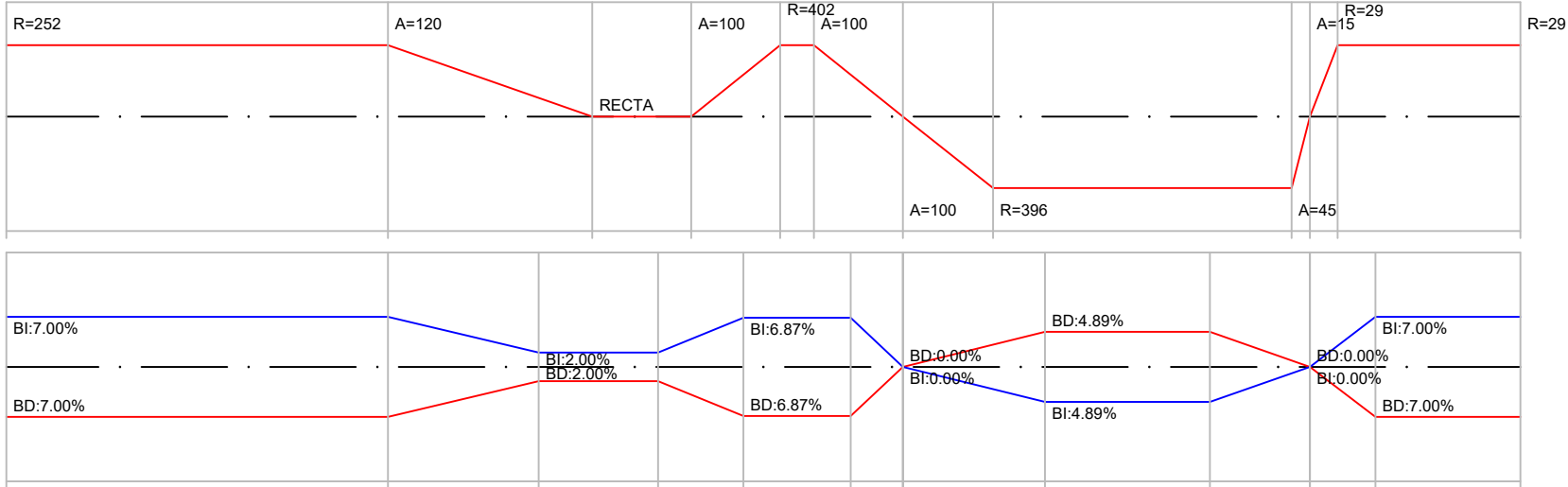
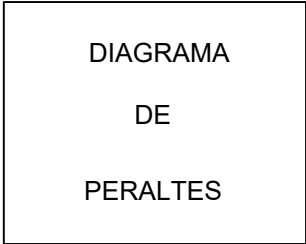
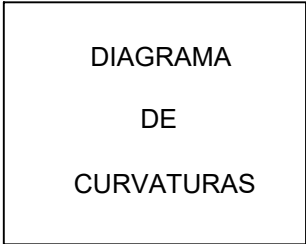
LEYENDA

RASANTE

TERRENO



P.K.	COTAS	RASANTE	TERRENO
0+000	625.136	621.26	621.26
0+100	625.096	620.46	620.46
0+200	625.056	620.44	620.44
0+300	625.016	620.45	620.45
0+400	624.976	620.42	620.42
0+500	624.936	620.44	620.44
0+600	624.548	620.69	620.69
0+700	623.034	619.92	619.92
0+800	621.434	619.54	619.54
0+900	620.050	619.41	619.41
0+1000	619.890	619.44	619.44
0+1100	619.909	619.85	619.85





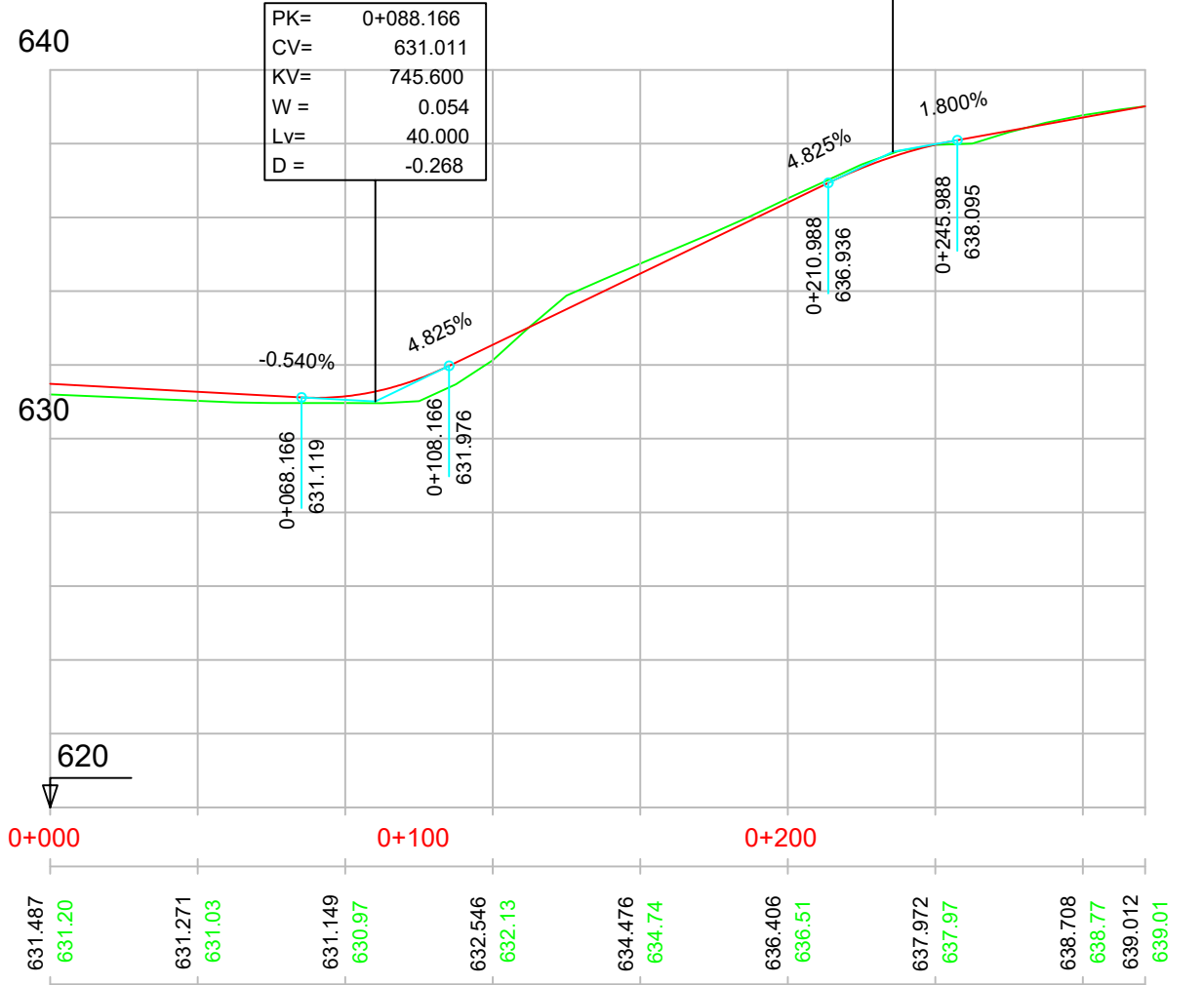
LEYENDA

RASANTE

TERRENO

EJE 7  
PK 0+000 - 0+296,924

PK=	0+228.488
CV=	637.780
KV=	1157.213
W =	-0.030
Lv=	35.000
D =	0.132



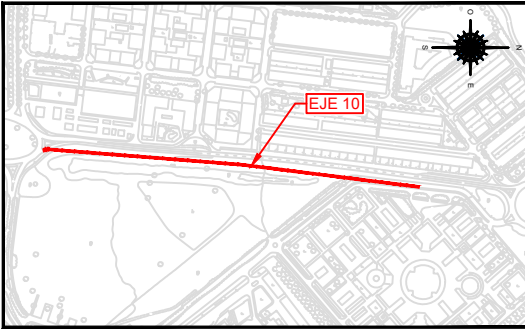
P.K.	COTAS	RASANTE	TERRENO
0+000	631.487	631.20	631.20
0+050	631.271	631.03	631.03
0+100	631.149	630.97	630.97
0+150	632.546	632.13	632.13
0+200	634.476	634.74	634.74
0+250	636.406	636.51	636.51
0+300	637.972	637.97	637.97
0+350	638.708	638.77	638.77
0+400	639.012	639.012	639.012

DIAGRAMA DE CURVATURAS
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DIAGRAMA DE PERALTES
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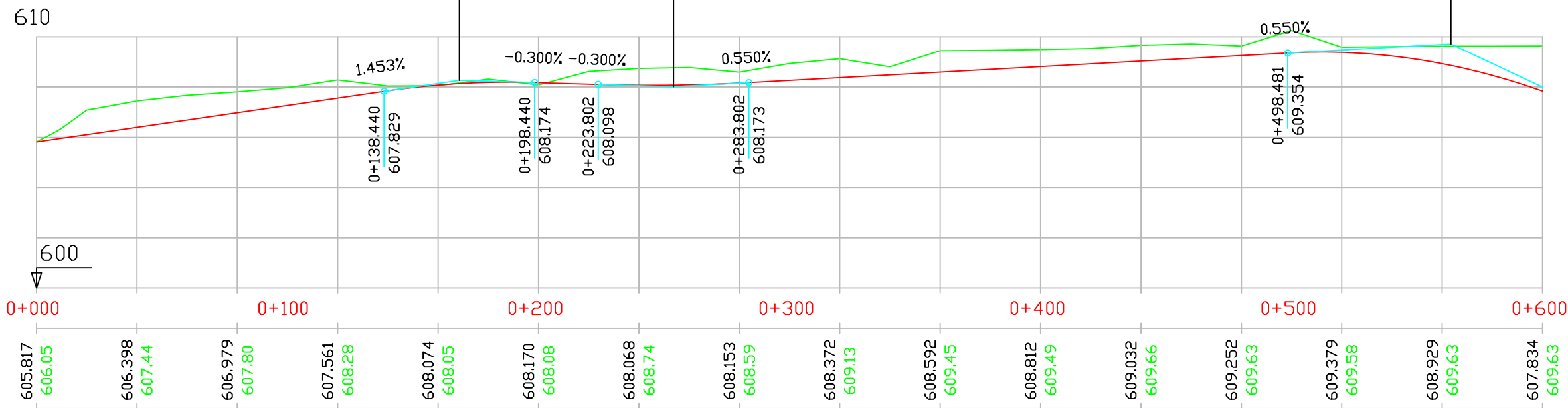
EJE 10  
PK 0+000 - 0+600

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

PK=	0+168.440
CV=	608.264
KV=	3422.704
W =	-0.018
Lv=	60.000
D =	0.131

PK=	0+253.802
CV=	608.008
KV=	7058.824
W =	0.008
Lv=	60.000
D =	-0.064

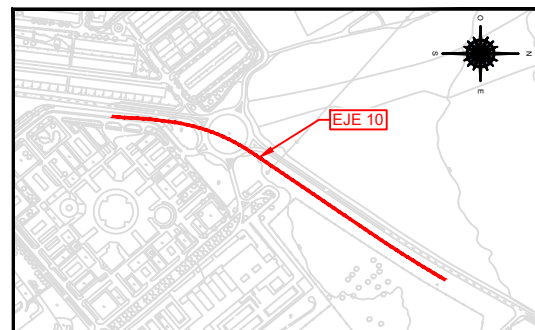
PK=	0+563.481
CV=	609.712
KV=	2479.077
W =	-0.052
Lv=	130.000
D =	0.852



P.K.	COTAS RASANTE	COTAS TERRENO
0+000	605.817	606.05
0+100	606.398	607.44
0+200	607.561	608.28
0+300	608.153	608.59
0+400	608.812	609.49
0+500	609.252	609.63
0+600	607.834	609.63

DIAGRAMA DE CURVATURAS
R=31
RECTA
A=100
R=597
A=100
RECTA
A=85

DIAGRAMA DE PERALTES
BI:7.00%
BD:7.00%
BI:2.00%
BD:2.00%
BI:7.00%
BD:7.00%
BI:2.00%
BD:2.00%
BI:2.00%
BD:2.00%

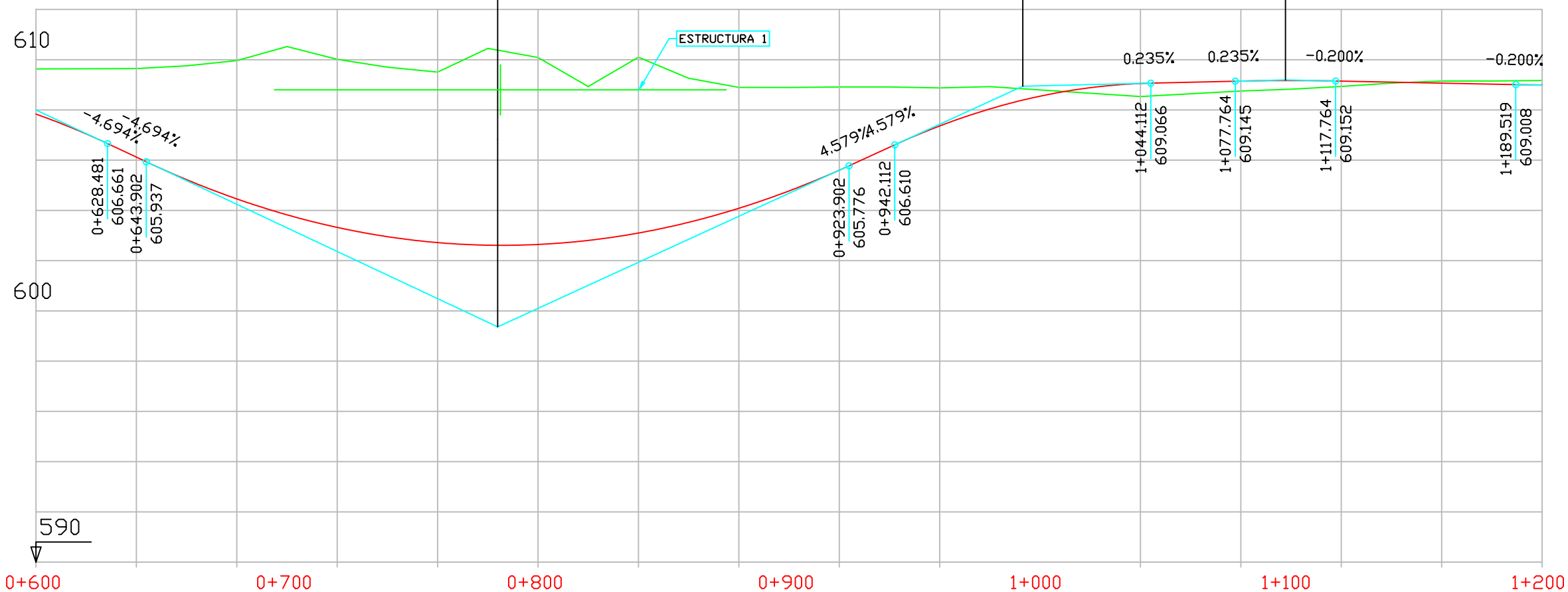
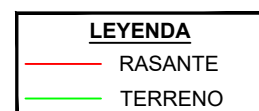


EJE 10  
PK 0+600 - 1+200

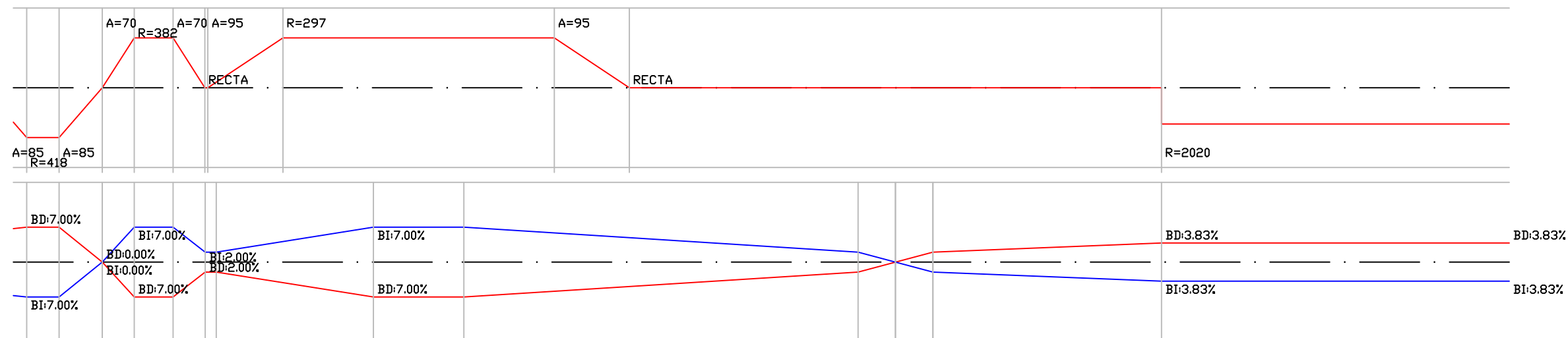
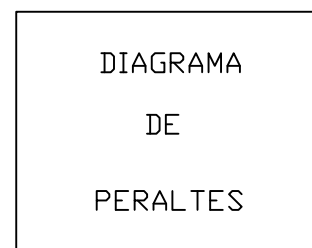
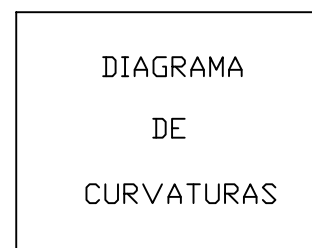
PK=	0+783.902
CV=	599.365
KV=	3019.410
W =	0.093
Lv=	280.000
D =	-3.246

PK=	0+993.112
CV=	608.946
KV=	2347.824
W =	-0.043
Lv=	102.000
D =	0.554

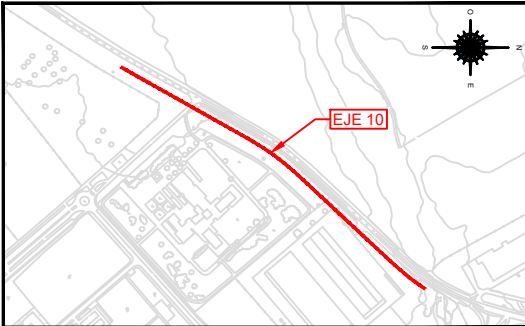
PK=	1+097.764
CV=	609.192
KV=	9195.402
W =	-0.004
Lv=	40.000
D =	0.022



P.K.		
COTAS	RASANTE	TERRENO





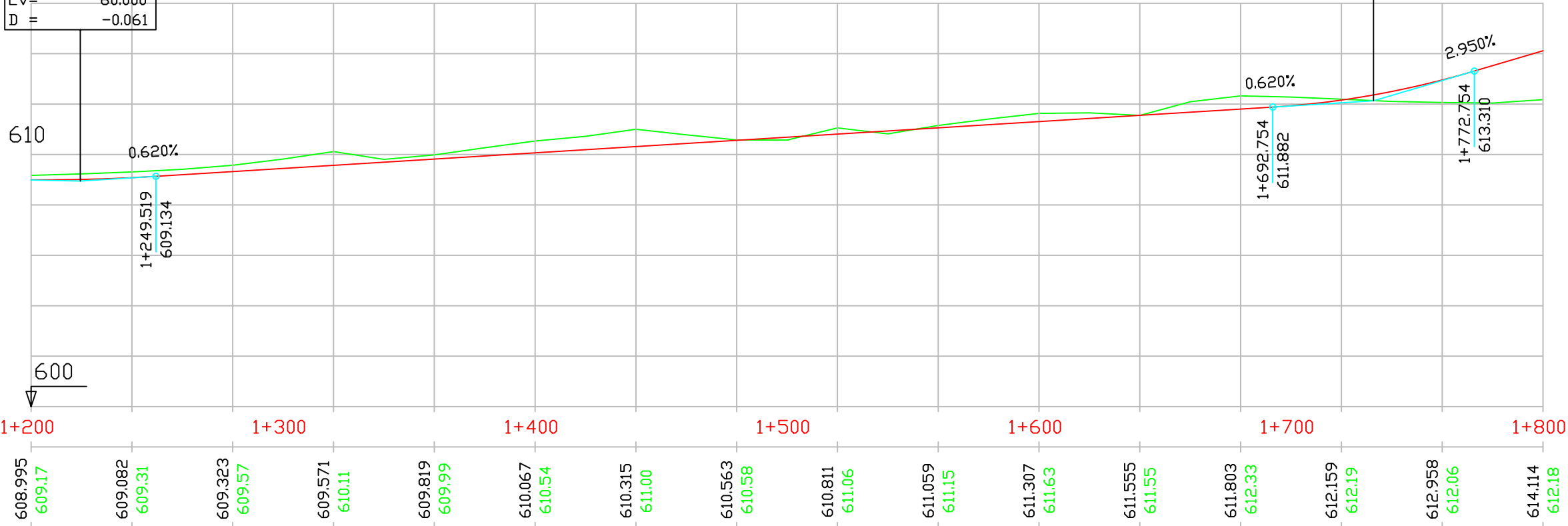


EJE 10  
PK 1+200 - 1+800

**LEYENDA**  
— RASANTE  
— TERRENO

PK= 1+219.519  
CV= 608.948  
KV= 7317.073  
W = 0.008  
Lv= 60.000  
D = -0.061

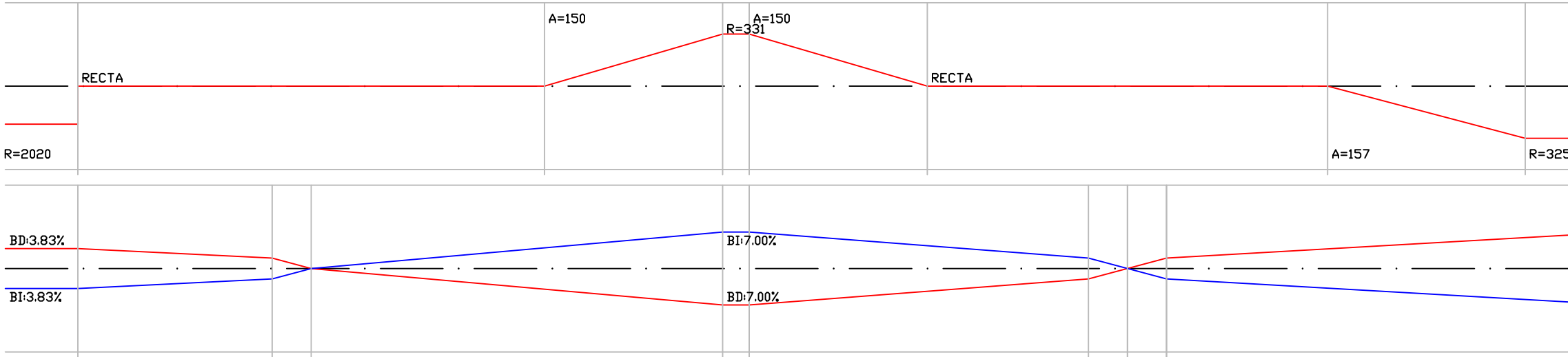
PK= 1+732.754  
CV= 612.130  
KV= 3433.476  
W = 0.023  
Lv= 80.000  
D = -0.233

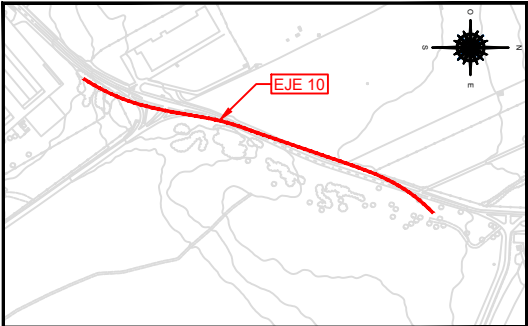


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES

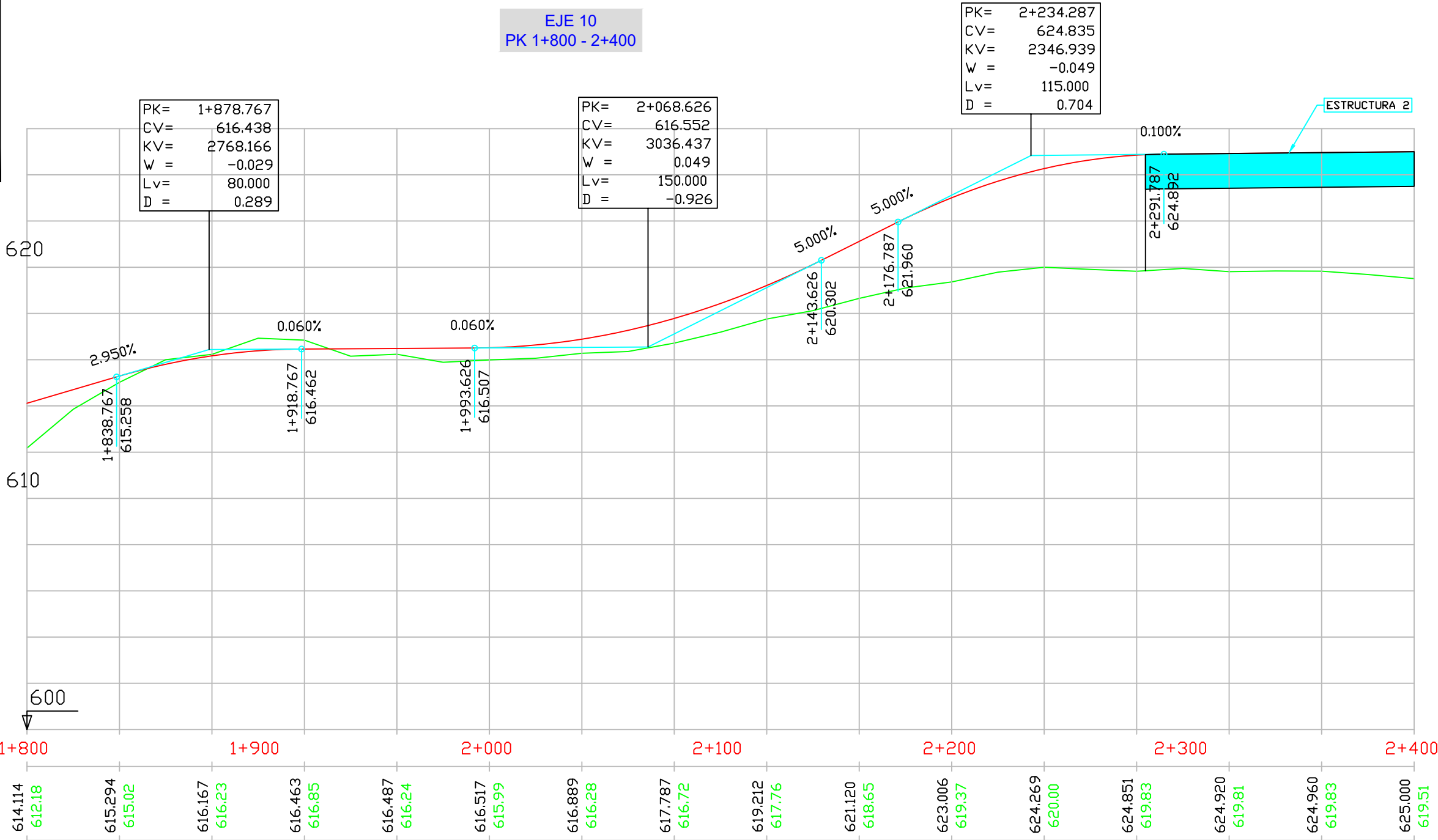




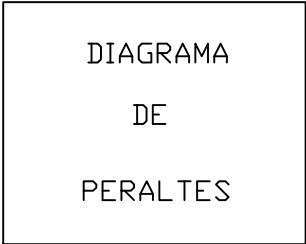
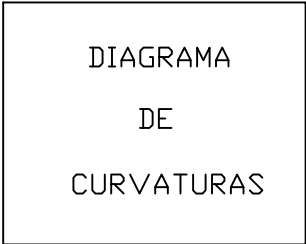
EJE 10  
PK 1+800 - 2+400

**LEYENDA**

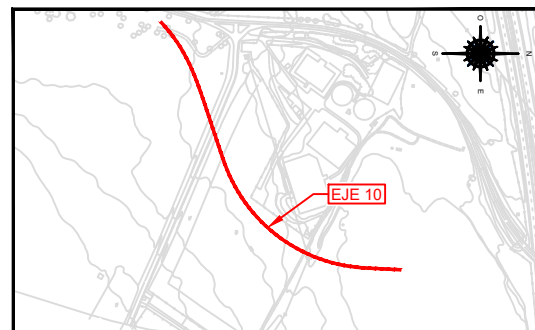
- RASANTE
- TERRENO



P.K.		
COTAS	RASANTE	TERRENO

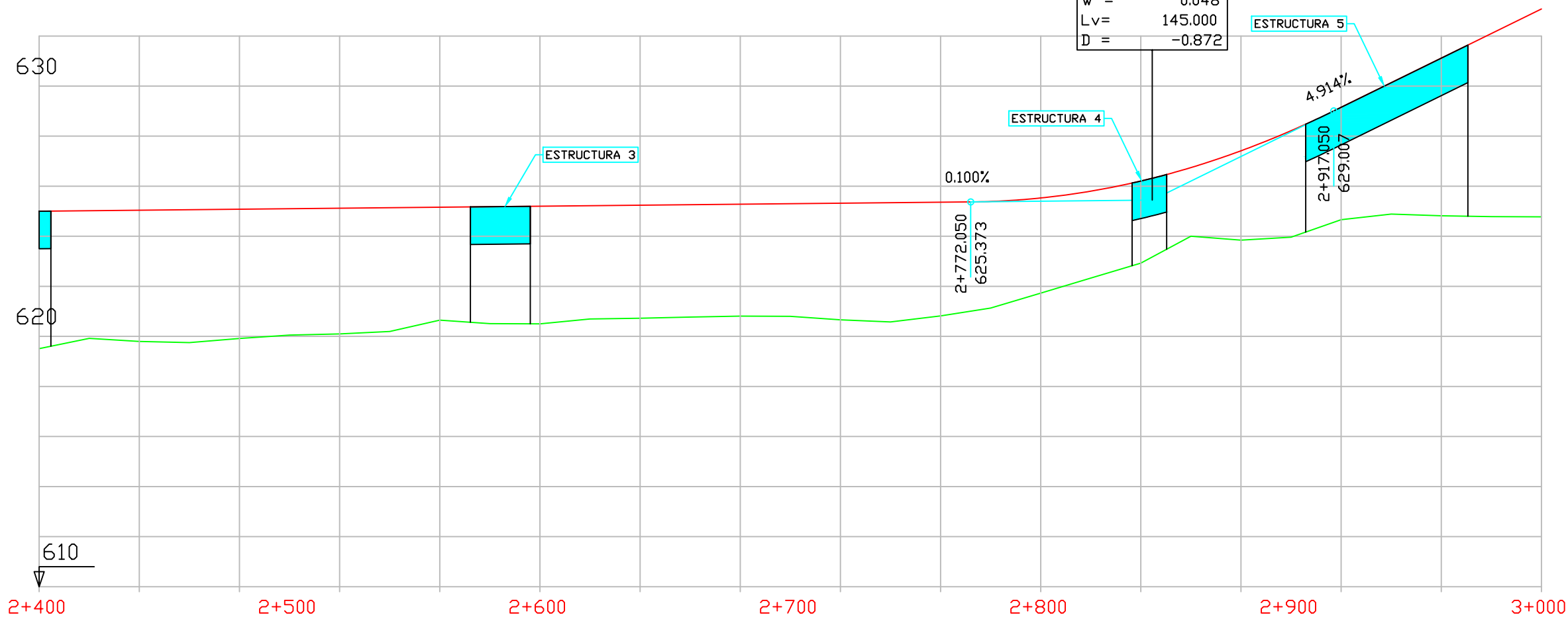




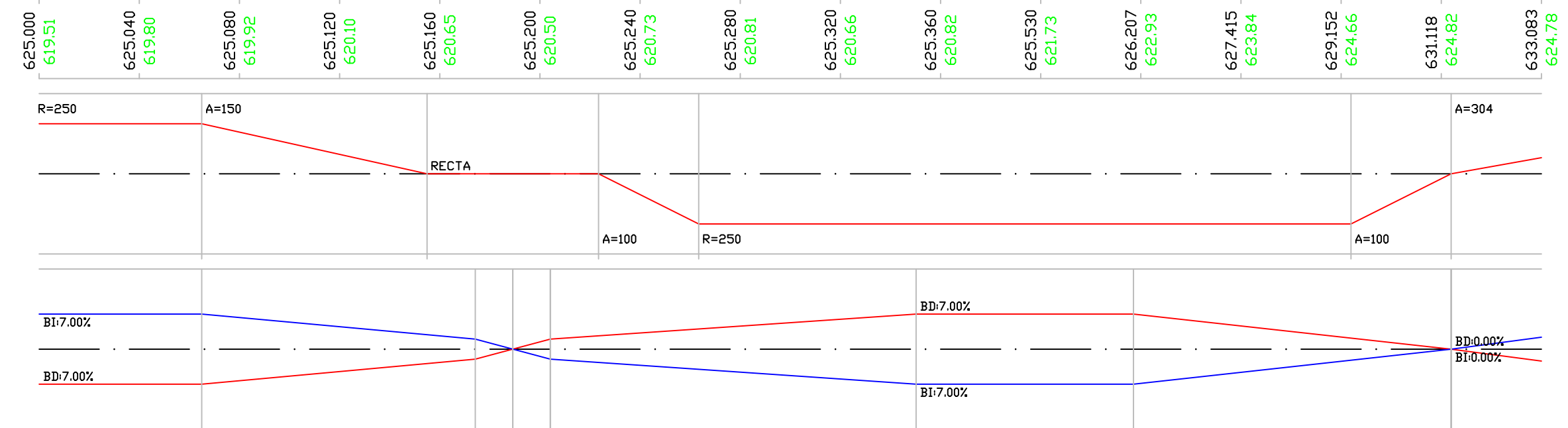
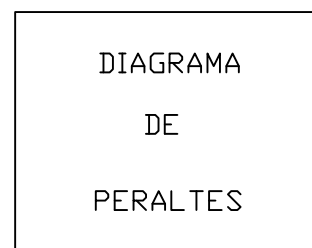
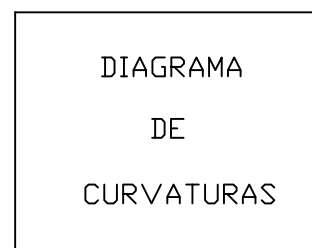


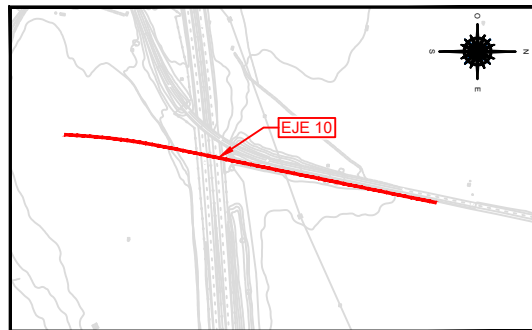
EJE 10  
PK 2+400 - 3+000

PK=	2+844.550
CV=	625.445
KV=	3012.222
W =	0.048
Lv=	145.000
D =	-0.872



P.K.		
COTAS	RASANTE	TERRENO

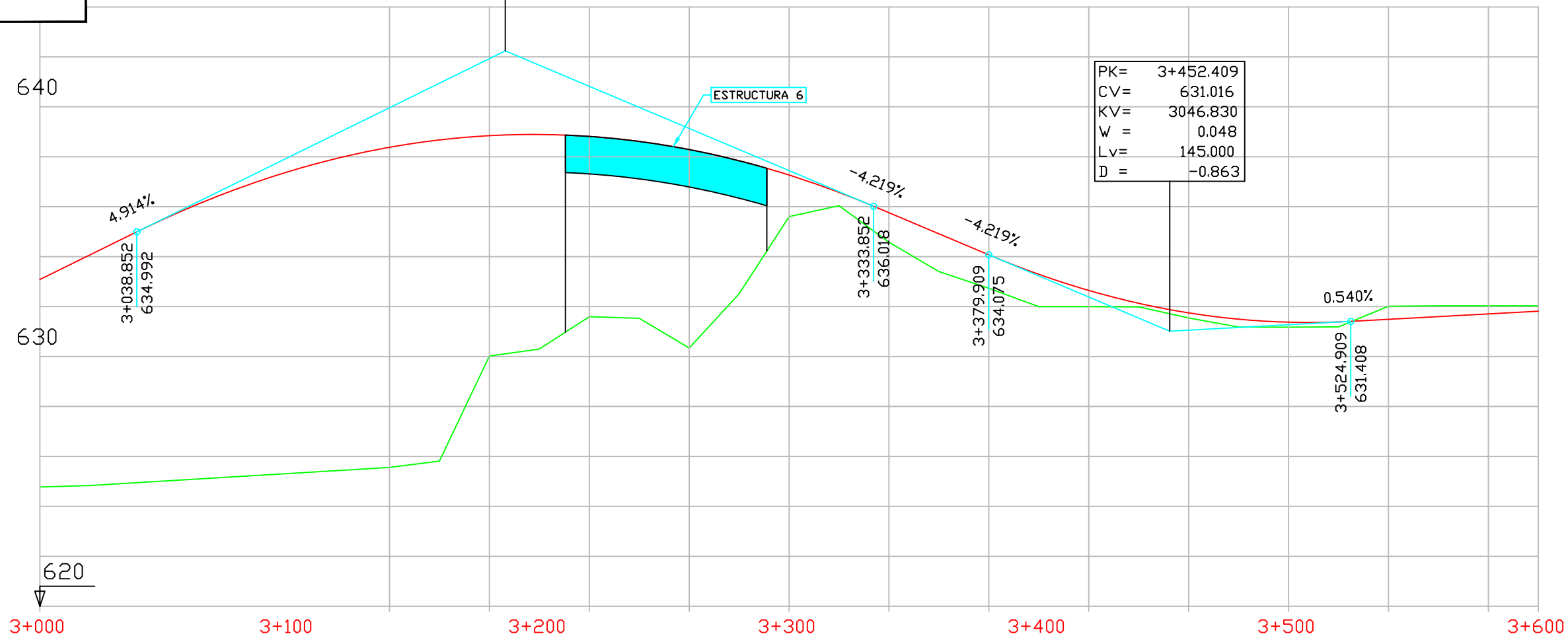




PK= 3+186.352  
CV= 642.240  
KV= 3230.239  
W = -0.091  
Lv= 295.000  
D = 3.368

EJE 10  
PK 3+000 - 3+600

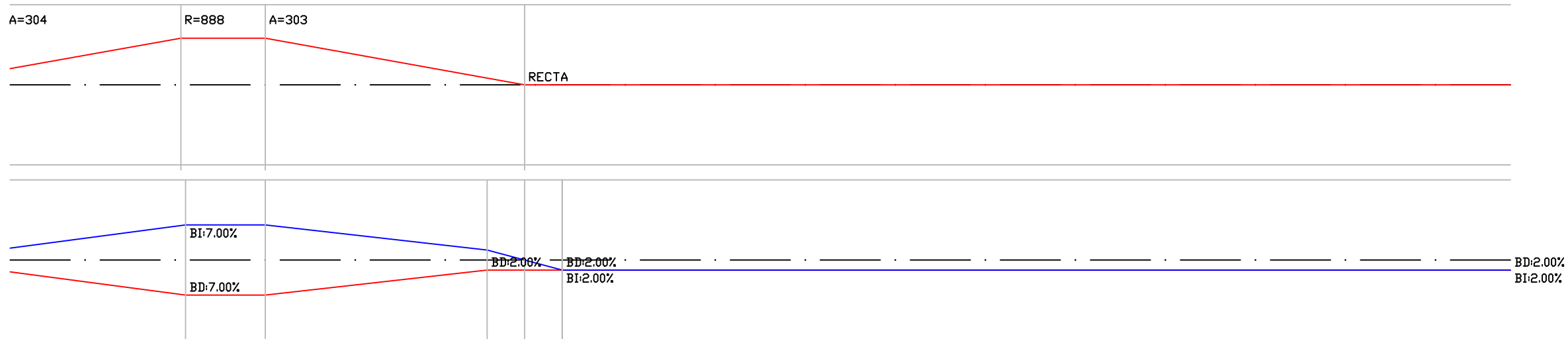
**LEYENDA**  
— RASANTE  
— TERRENO



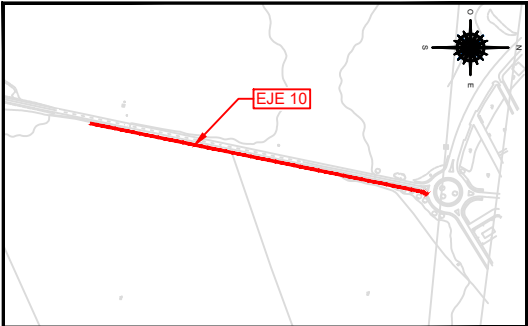
P.K.		
COTAS	RASANTE	TERRENO

633.083	624.78	638.379	625.56	638.844	630.02	638.814	631.59	638.289	630.34	637.268	635.60	635.758	634.58	634.071	632.73	632.647	632.00	631.748	631.55	631.375	631.18	631.489	632.01	631.705	632.03	631.813	632.03
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DIAGRAMA  
DE  
CURVATURAS



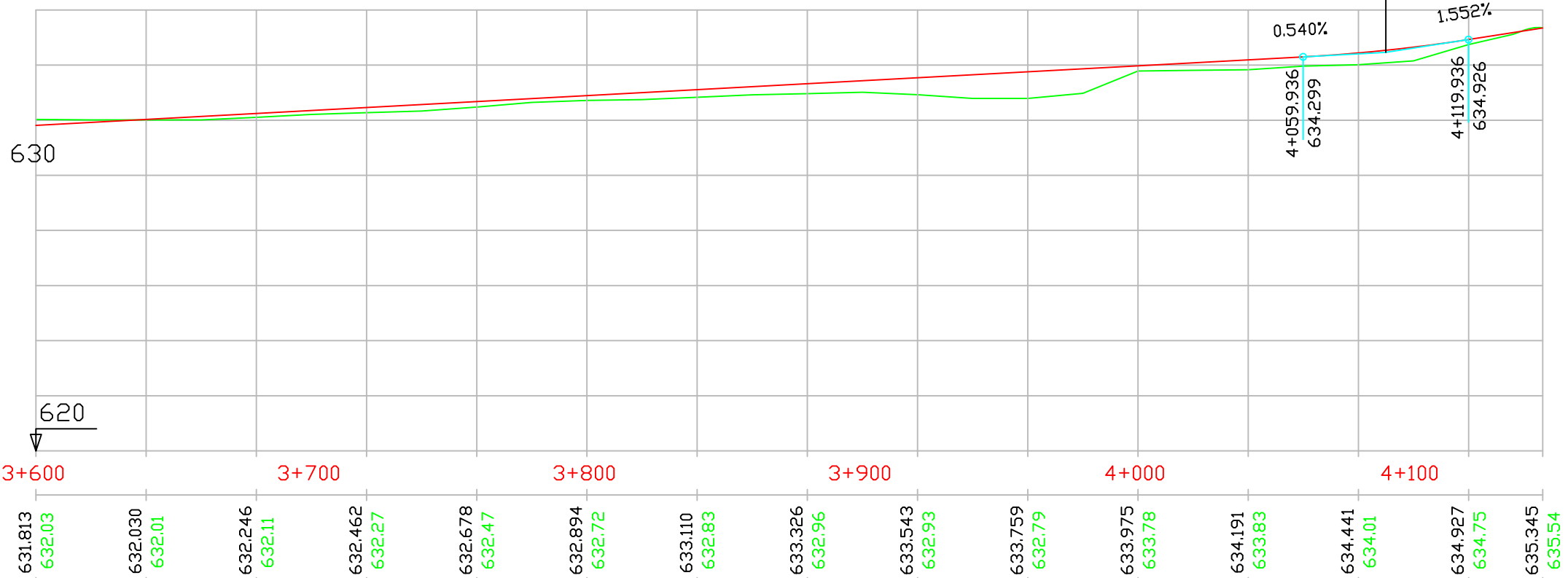




EJE 10  
PK 3+600 - 4+146.913

PK= 4+089.936  
CV= 634.461  
KV= 5930.558  
W = 0.010  
Lv= 60.000  
D = -0.076

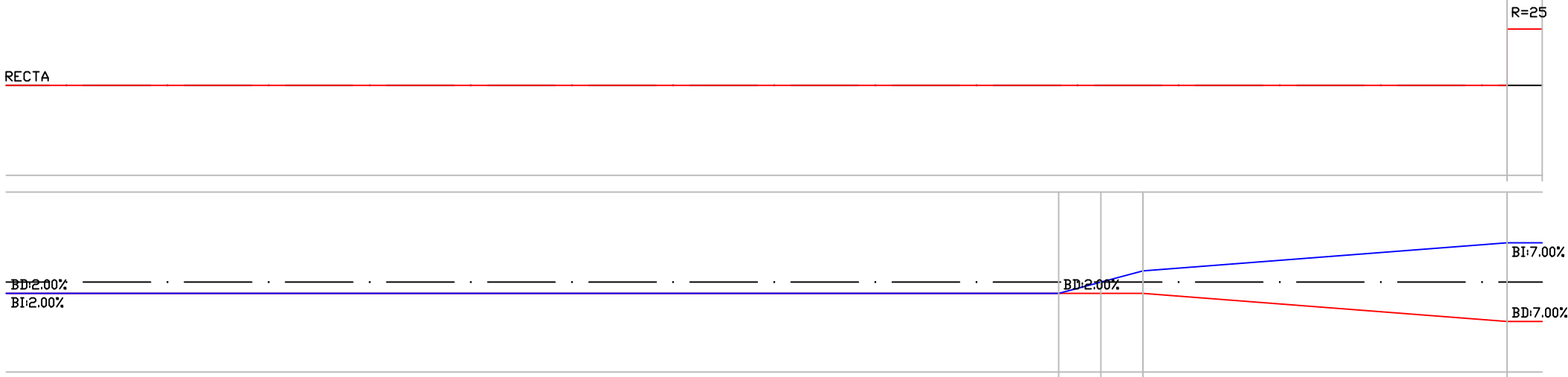
LEYENDA  
— RASANTE  
— TERRENO

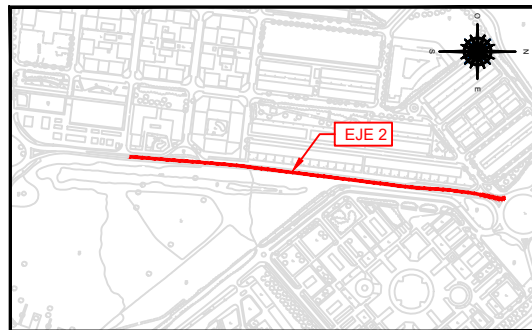


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES





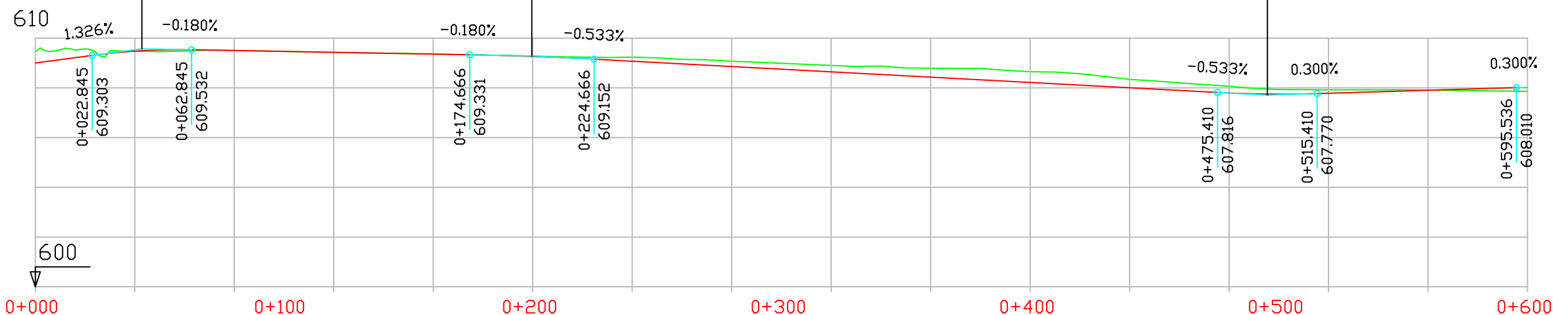
EJE 2  
PK 0+000 - 0+600

**LEYENDA**  
— RASANTE  
— TERRENO

PK= 0+042.845  
CV= 609.568  
KV= 2656.484  
W = -0.015  
Lv= 40.000  
D = 0.075

PK= 0+199.666  
CV= 609.286  
KV= 14176.598  
W = -0.004  
Lv= 50.000  
D = 0.022

PK= 0+495.410  
CV= 607.710  
KV= 4803.241  
W = 0.008  
Lv= 40.000  
D = -0.042



P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200	0+300	0+400	0+500	0+600
609.000 609.45	609.475 609.47	609.501 609.50	609.429 609.42	609.357 609.36	609.262 609.28	609.071 609.23
608.858 609.07	608.644 608.90	608.431 608.79	608.218 608.65	608.005 608.34	607.794 608.06	607.784 607.92
607.904 607.91	608.019 607.86					

DIAGRAMA  
DE  
CURVATURAS

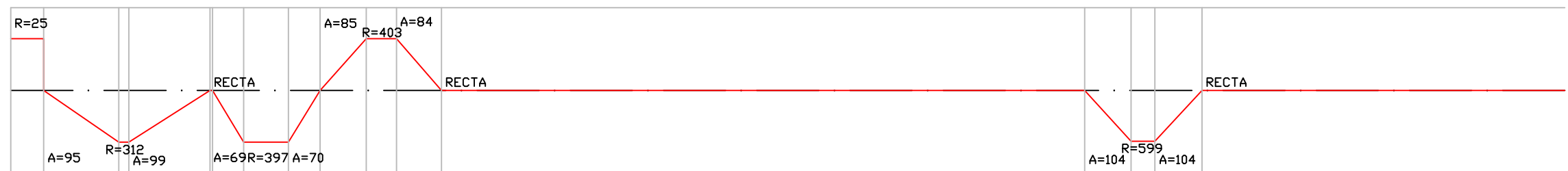
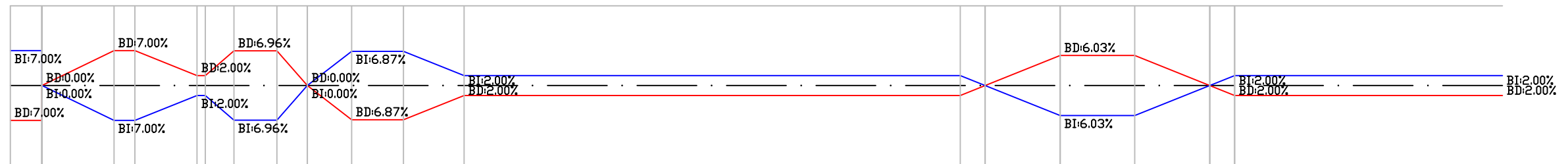
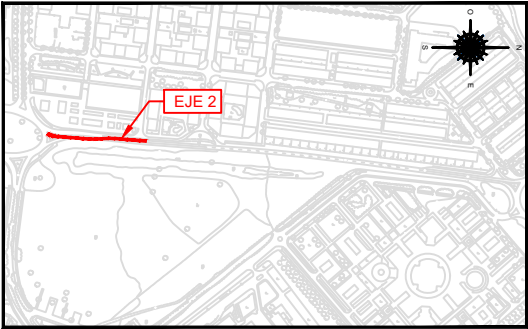


DIAGRAMA  
DE  
PERALTES

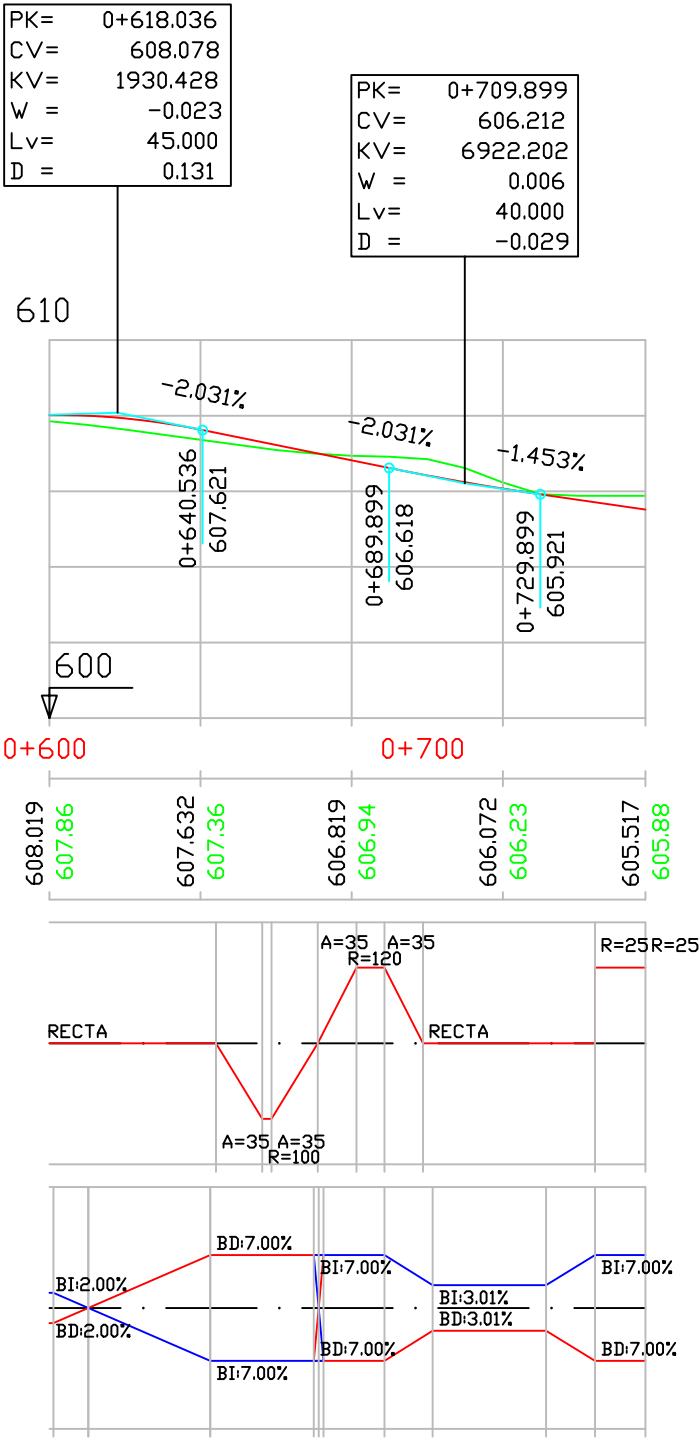






LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

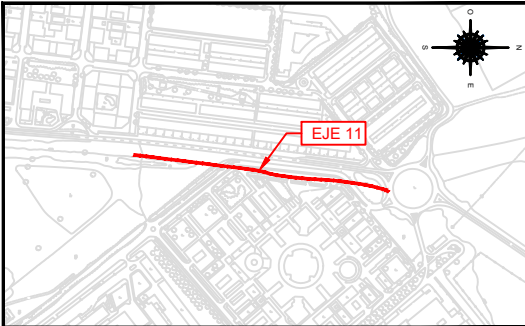
EJE 2  
PK 0+600 - 0+757,595



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES



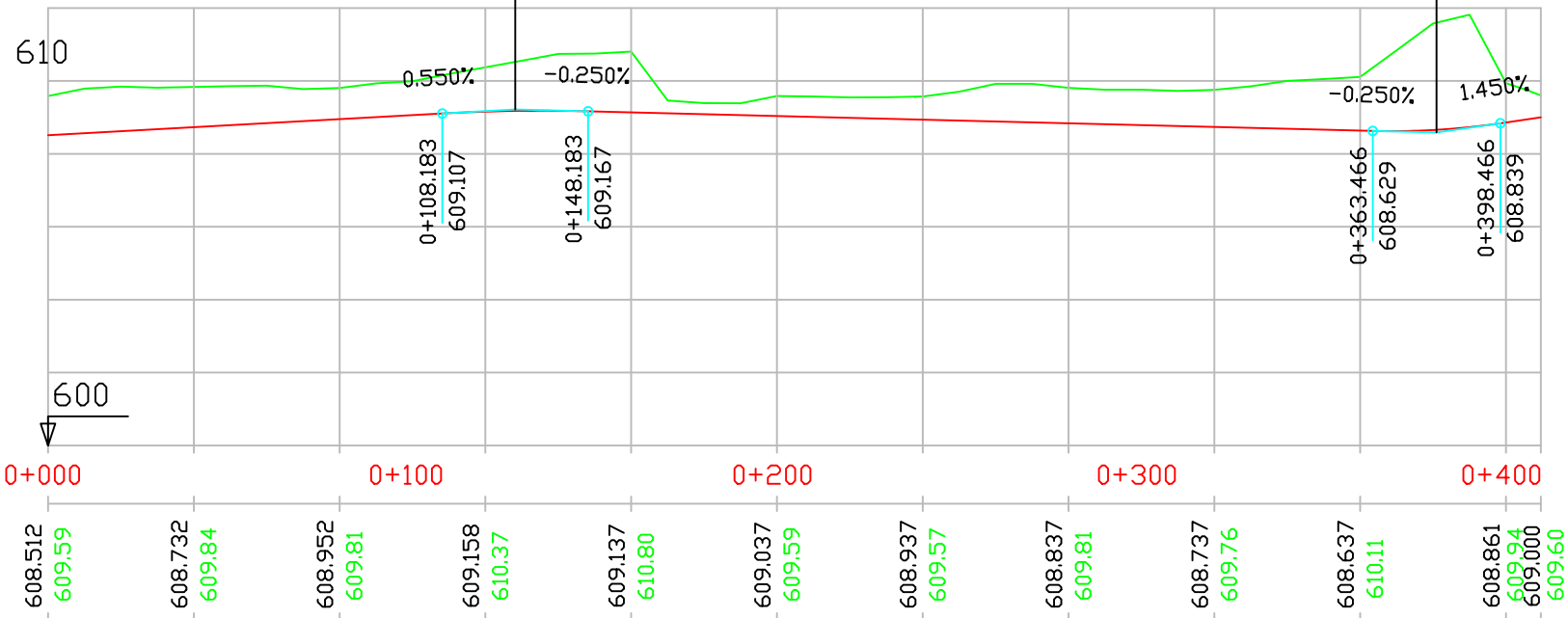
EJE 11  
PK 0+000 - 0+409,583

LEYENDA

- RASANTE
- TERRENO

PK= 0+128.183  
CV= 609.217  
KV= 5000.000  
W = -0.008  
Lv= 40.000  
D = 0.040

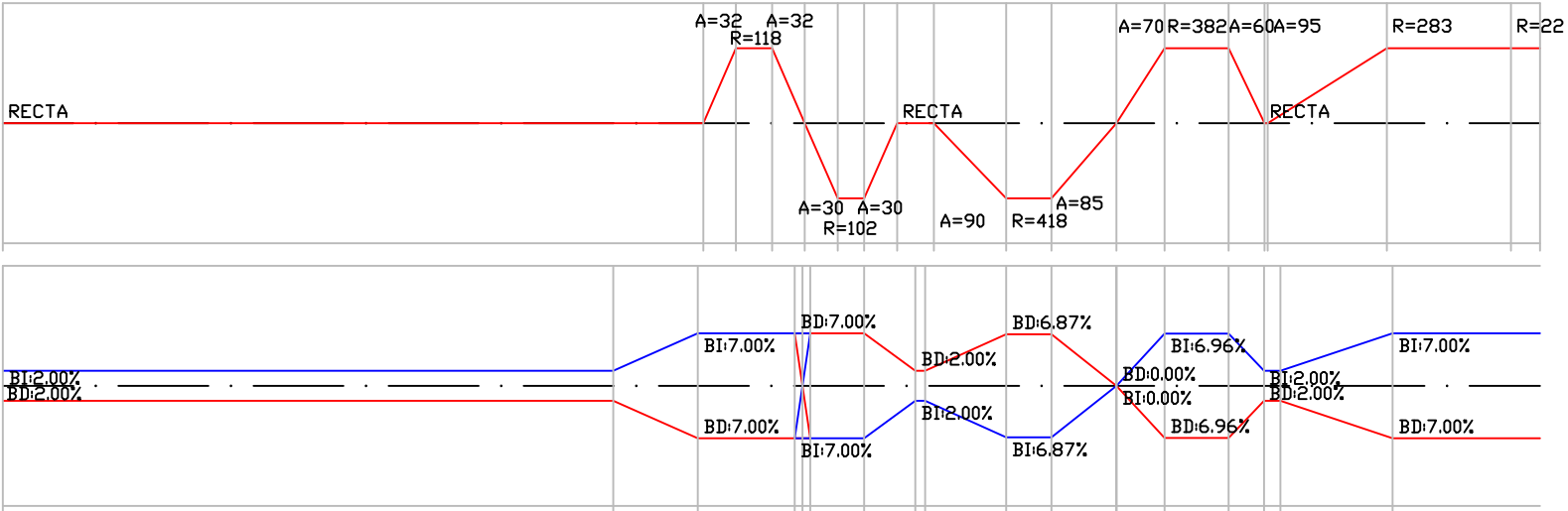
PK= 0+380.966  
CV= 608.585  
KV= 2058.824  
W = 0.017  
Lv= 35.000  
D = -0.074



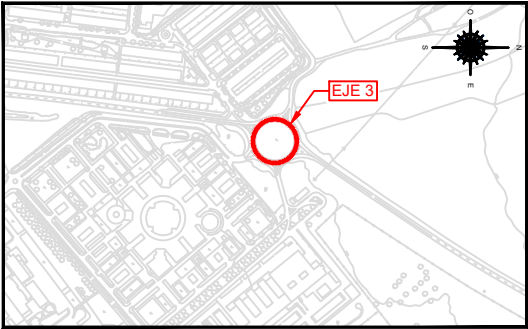
P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS

DIAGRAMA DE PERALTES







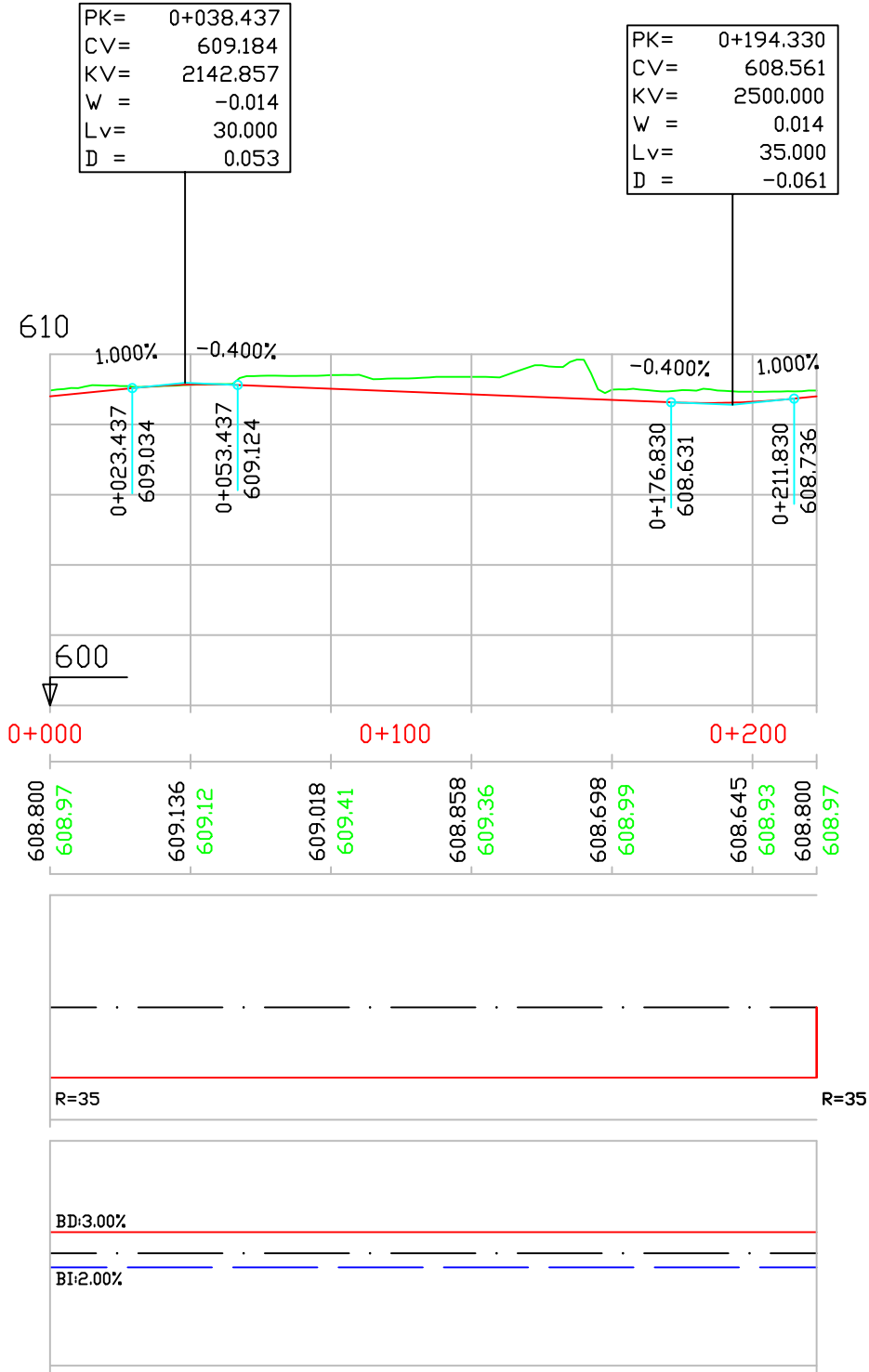
LEYENDA

RASANTE

TERRENO

EJE 3

PK 0+000 - 0+218,249





EJE 21  
PK 0+000 - 0+600

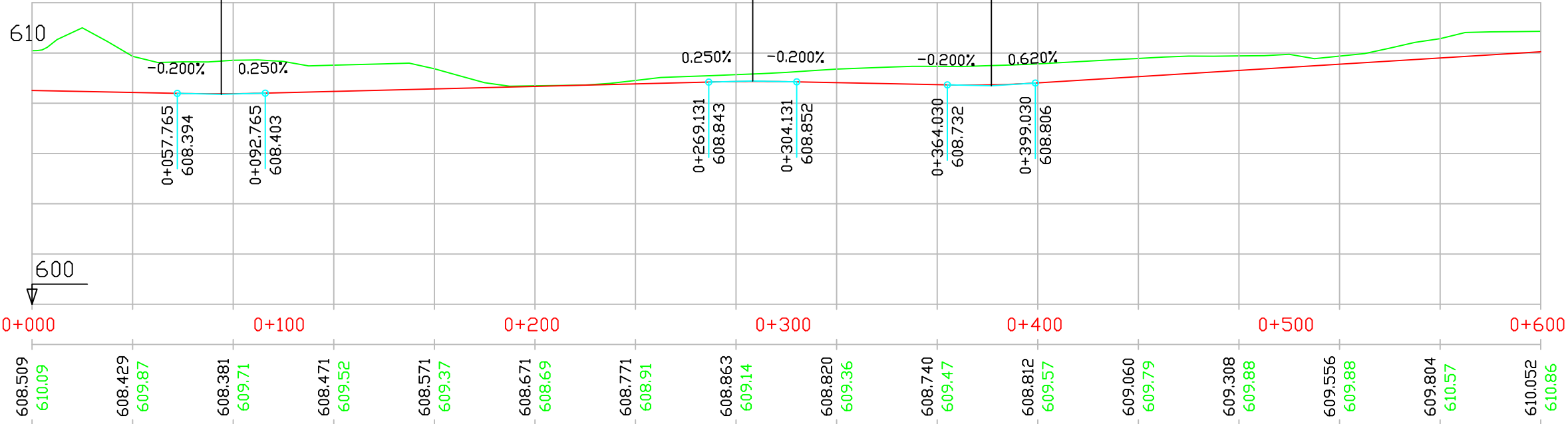
**LEYENDA**

- RASANTE
- TERRENO

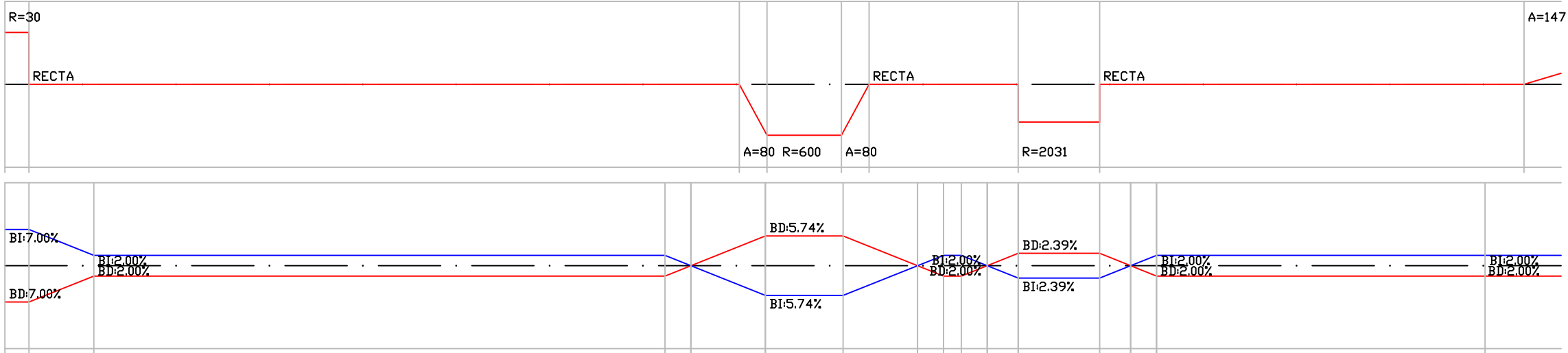
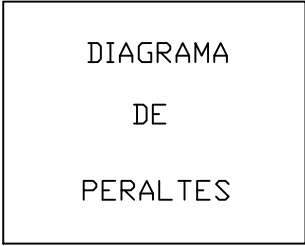
PK= 0+075.265  
CV= 608.359  
KV= 7777.778  
W = 0.004  
Lv= 35.000  
D = -0.020

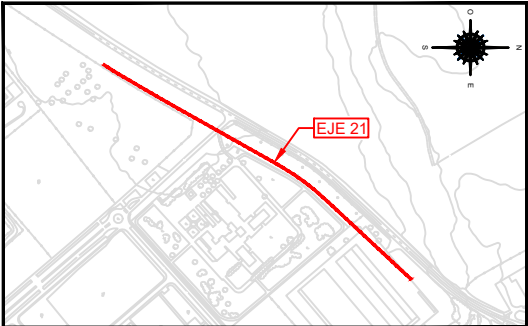
PK= 0+286.631  
CV= 608.887  
KV= 7777.778  
W = -0.004  
Lv= 35.000  
D = 0.020

PK= 0+381.530  
CV= 608.697  
KV= 4268.293  
W = 0.008  
Lv= 35.000  
D = -0.036



P.K.		
COTAS	RASANTE	TERRENO

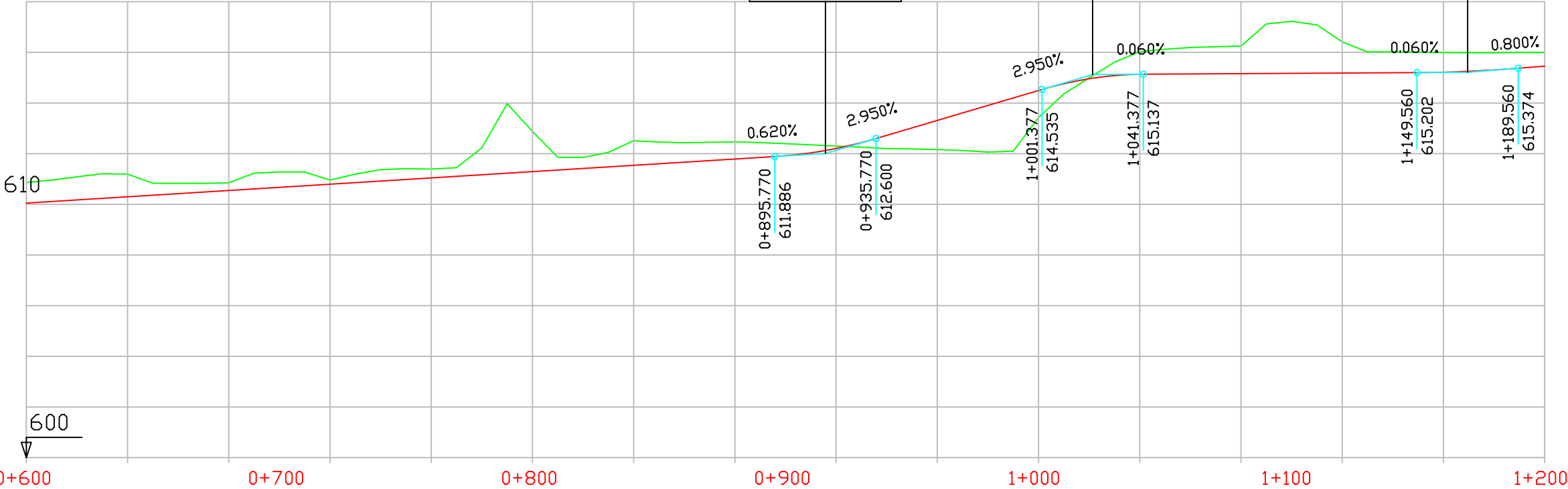




EJE 21  
PK 0+600 - 1+200

**LEYENDA**

- RASANTE
- TERRENO



P.K.		
COTAS	RASANTE	TERRENO

610.052	610.300	610.548	610.796	611.044	611.292	611.540	611.788	612.207	613.314	614.494	615.136	615.160	615.184	615.218	615.458
610.86	611.19	610.85	610.96	611.39	612.88	612.51	612.47	612.30	612.16	613.43	616.03	616.25	616.41	615.99	615.99

DIAGRAMA DE CURVATURAS

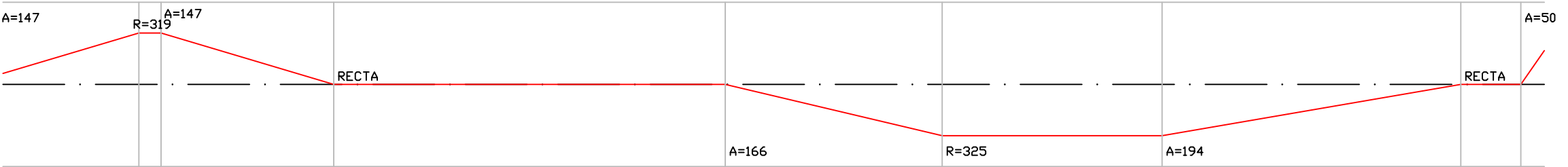
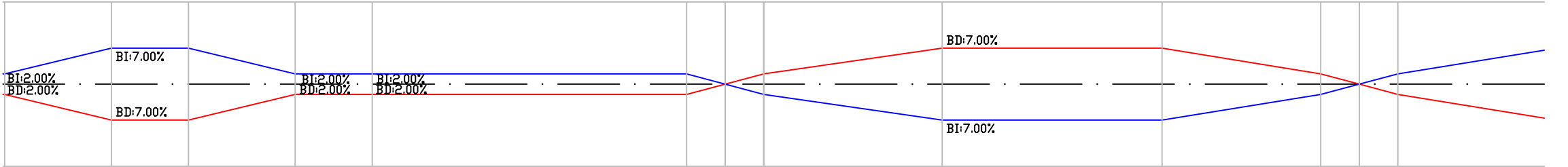
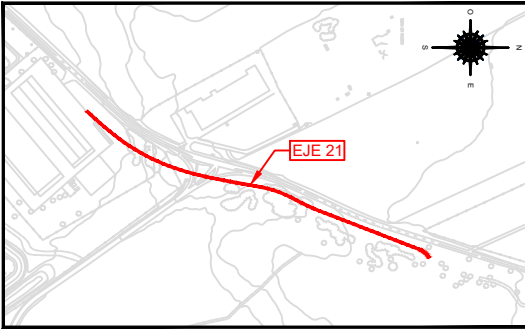


DIAGRAMA DE PERALTES







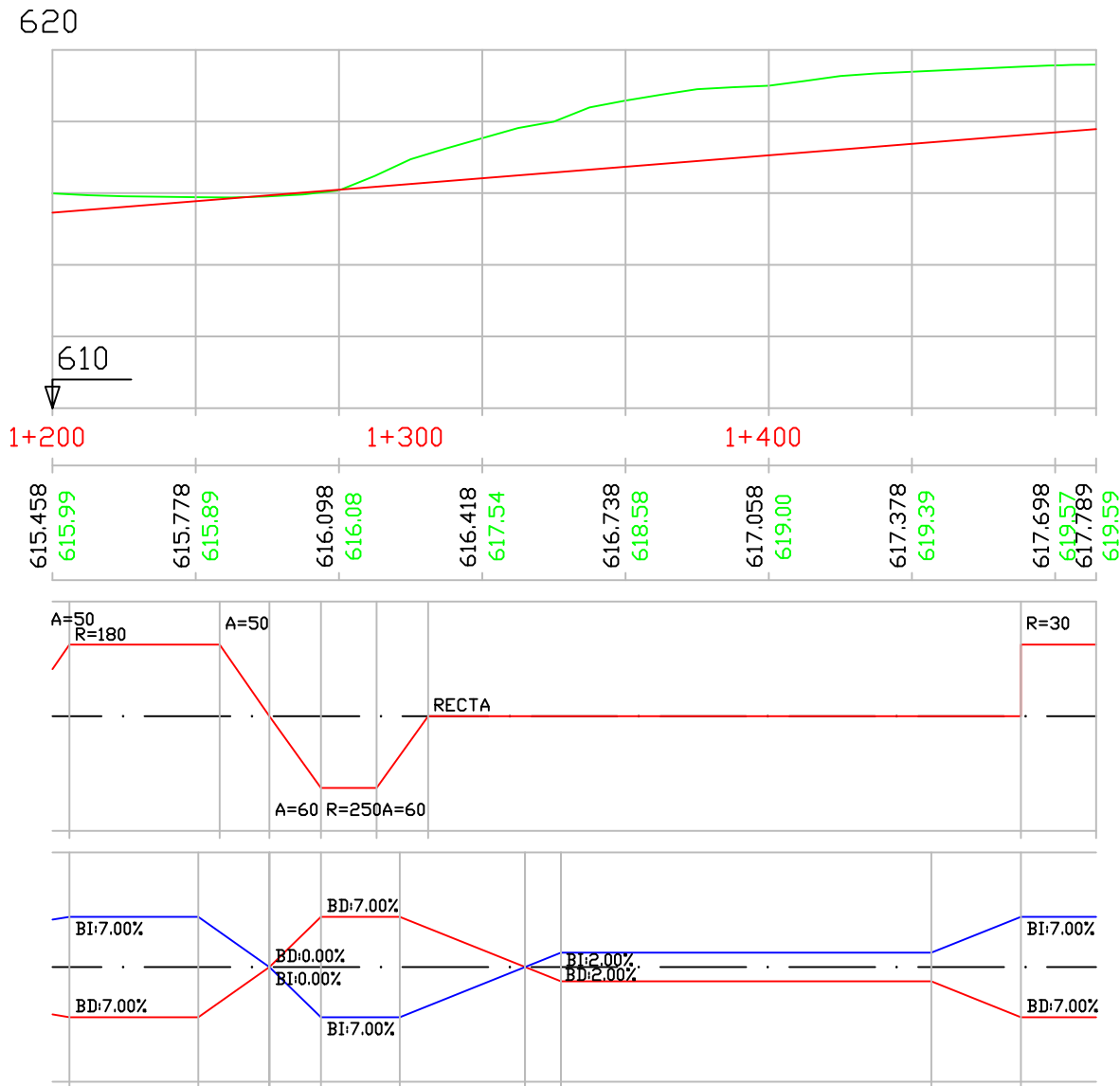
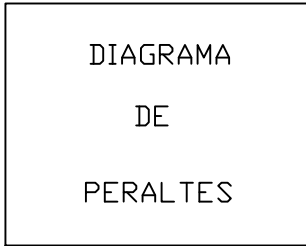
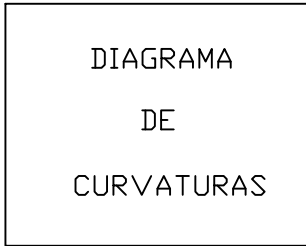
EJE 21  
PK 1+200 - 1+491.433

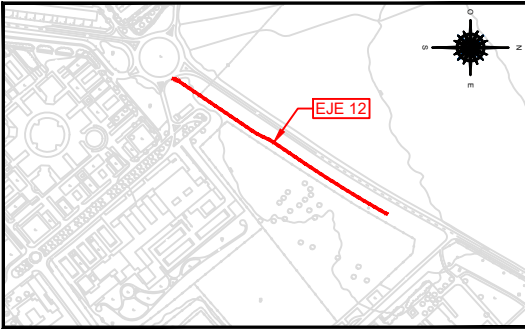
LEYENDA

RASANTE

TERRENO

P.K.		
COTAS	RASANTE	TERRENO





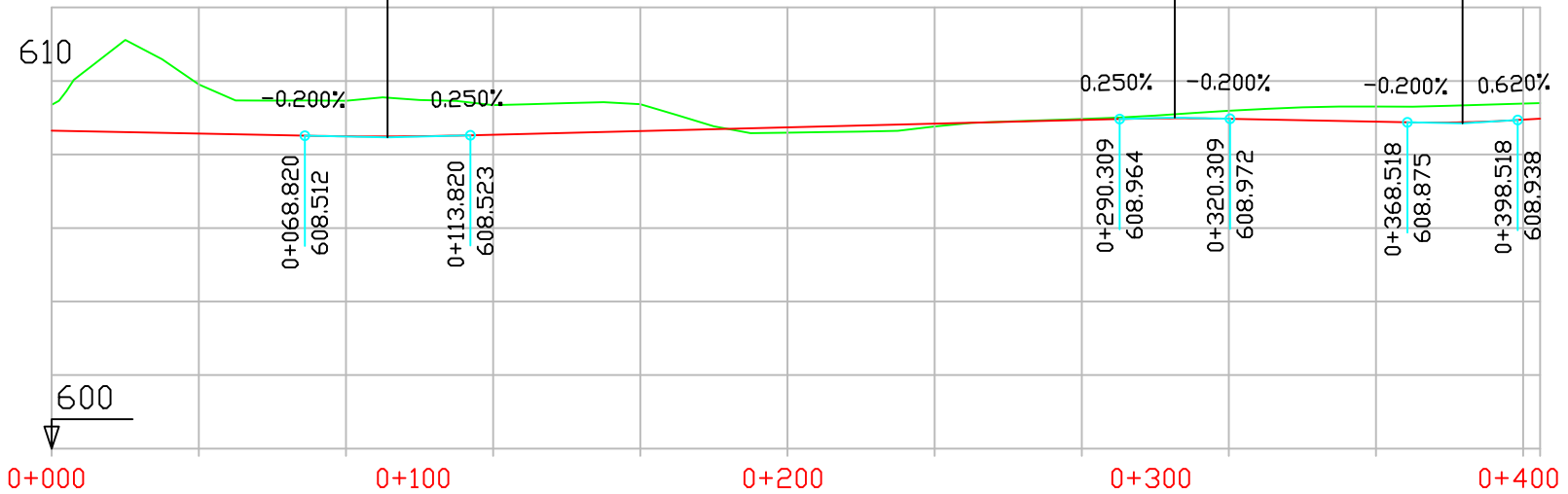
EJE 12  
PK 0+000 - 0+404.606

LEYENDA  
— RASANTE  
— TERRENO

PK= 0+091.320  
CV= 608.467  
KV= 10000.000  
W = 0.004  
Lv= 45.000  
D = -0.025

PK= 0+305.309  
CV= 609.002  
KV= 6666.667  
W = -0.004  
Lv= 30.000  
D = 0.017

PK= 0+383.518  
CV= 608.845  
KV= 3658.537  
W = 0.008  
Lv= 30.000  
D = -0.031



P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200	0+300	0+400
608.649	608.569	608.496	608.538	608.638
609.35	609.90	609.46	609.34	609.37
				608.738
				608.59
				608.838
				608.76
				608.938
				608.97
				608.972
				609.19
				608.892
				609.30
				608.947
				609.38
				609.40

DIAGRAMA  
DE  
CURVATURAS

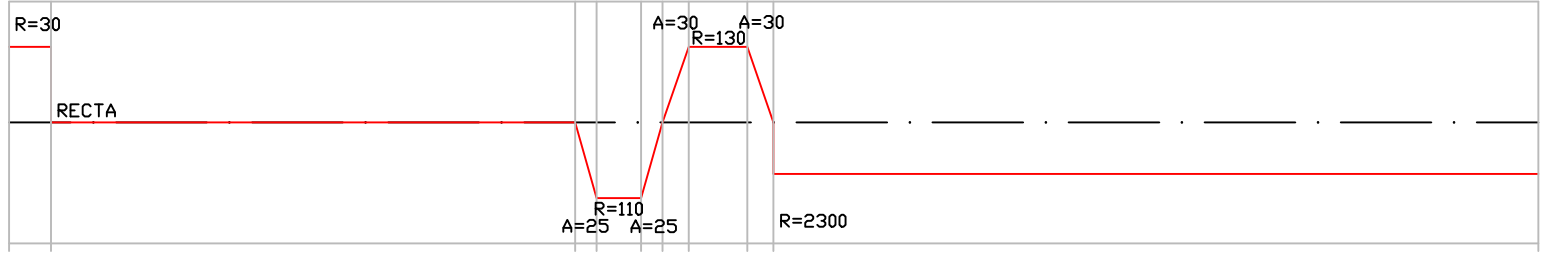
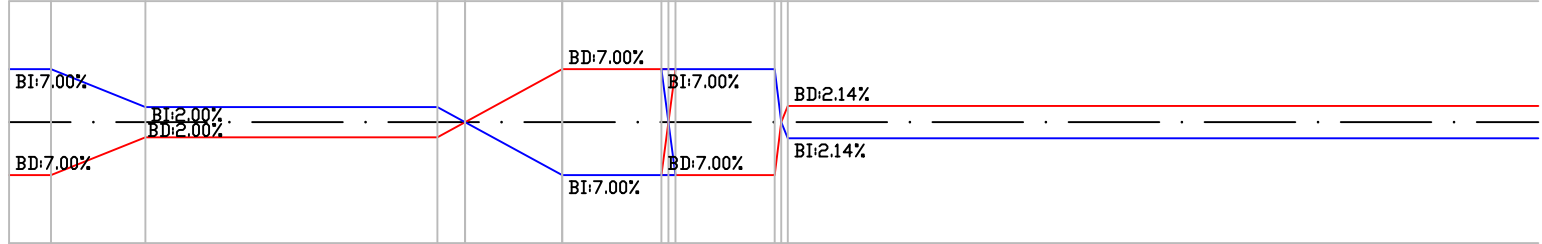
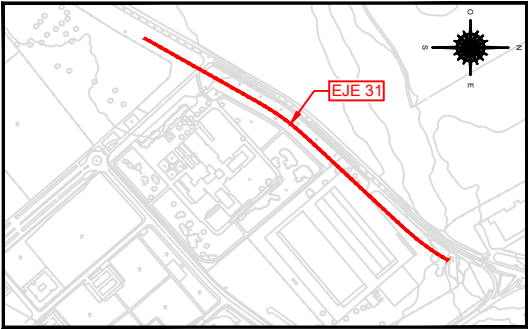


DIAGRAMA  
DE  
PERALTES

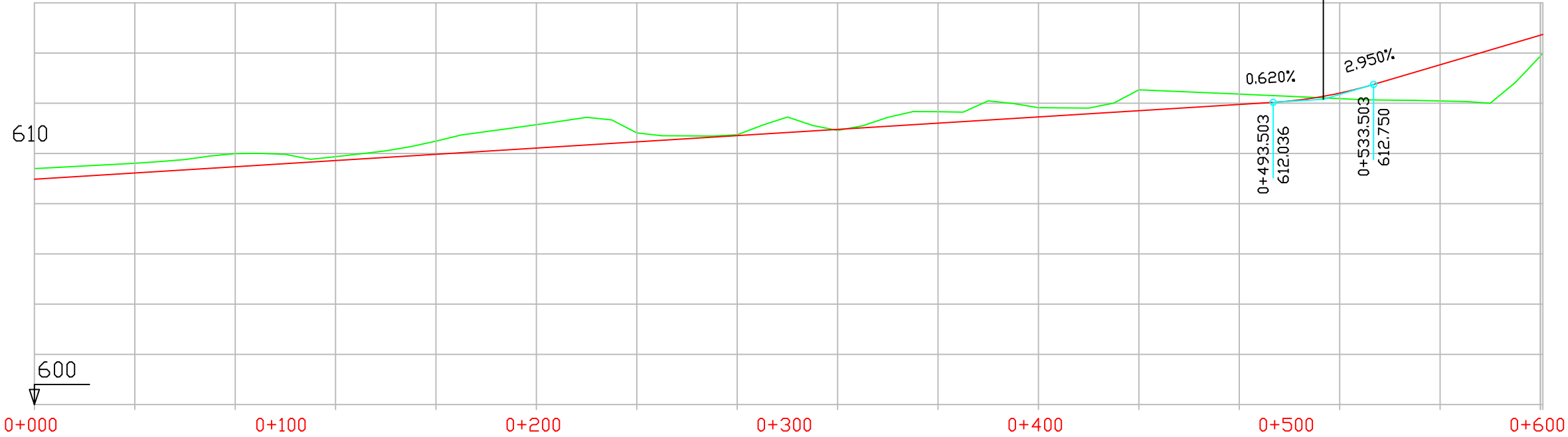




EJE 31  
PK 0+000 - 0+600.970

PK= 0+513.503  
CV= 612.160  
KV= 1716.738  
W = 0.023  
Lv= 40.000  
D = -0.117

LEYENDA  
RASANTE  
TERRENO



P.K.		
COTAS	RASANTE	TERRENO

608.976	609.224	609.472	609.720	609.968	610.216	610.464	610.712	610.960	611.208	611.456	611.704	611.952	612.404	613.531	614.711
609.40	609.61	610.00	609.87	610.49	611.15	610.82	610.74	610.92	611.66	611.82	612.53	612.36	612.19	612.09	613.88

DIAGRAMA  
DE  
CURVATURAS

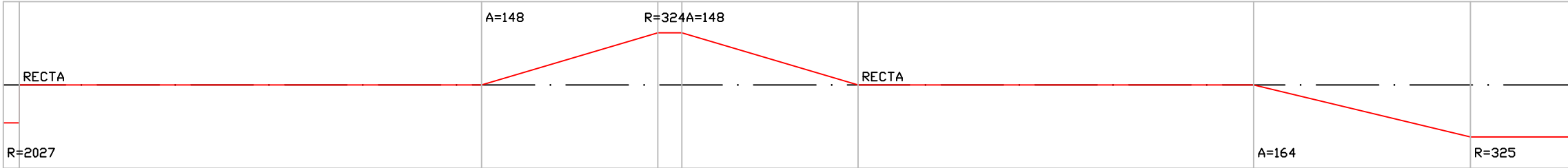
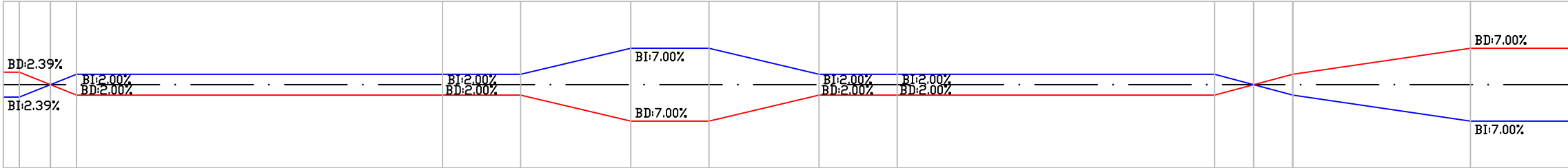
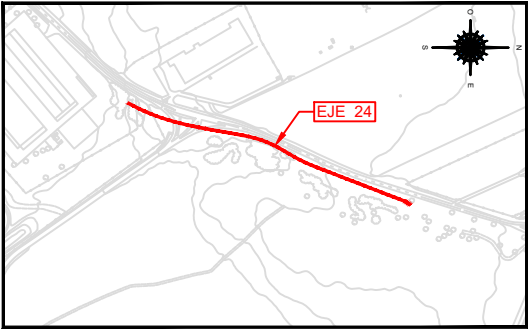


DIAGRAMA  
DE  
PERALTES



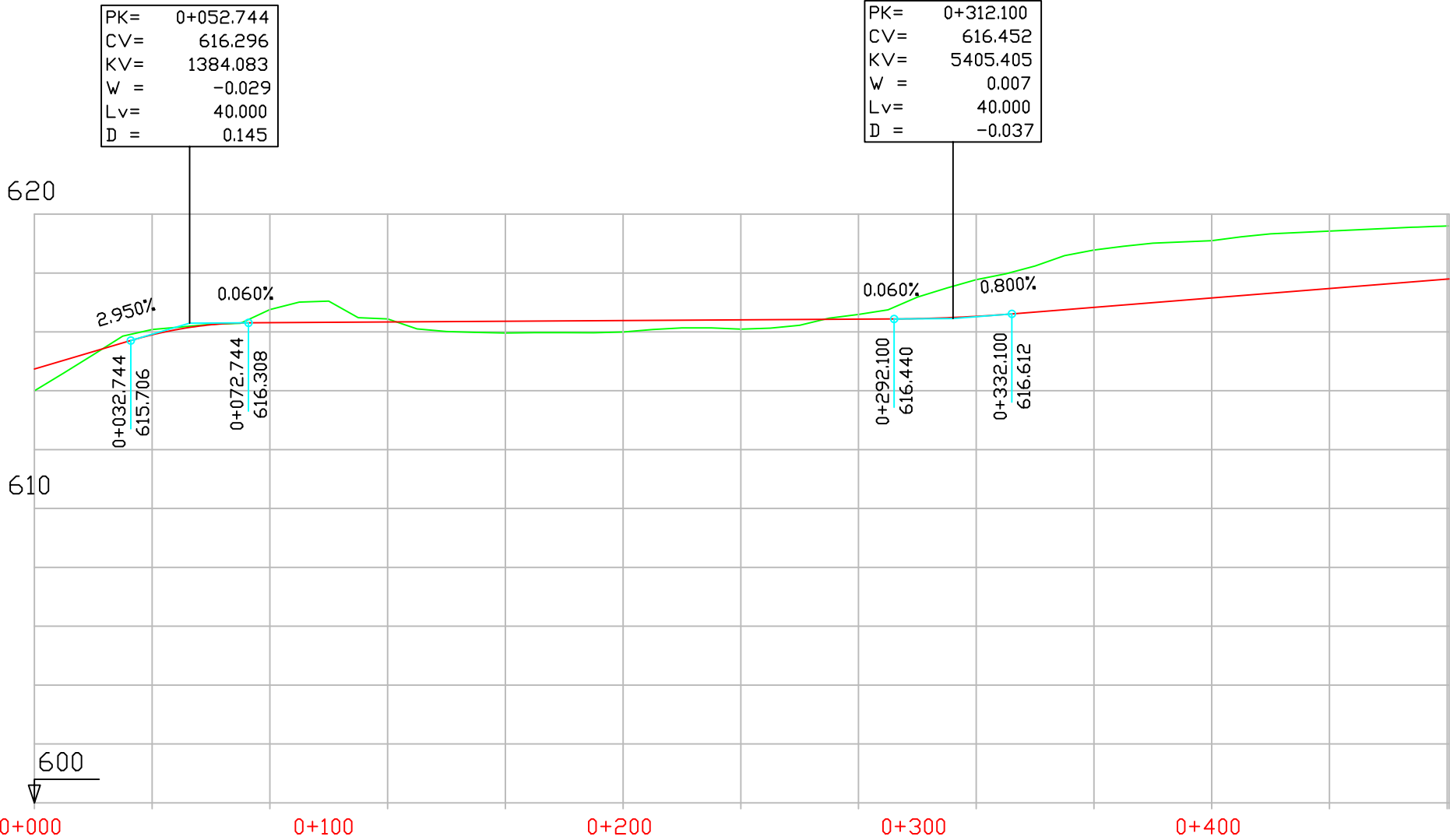




EJE 24  
PK 0+000 - 0+480.654

LEYENDA

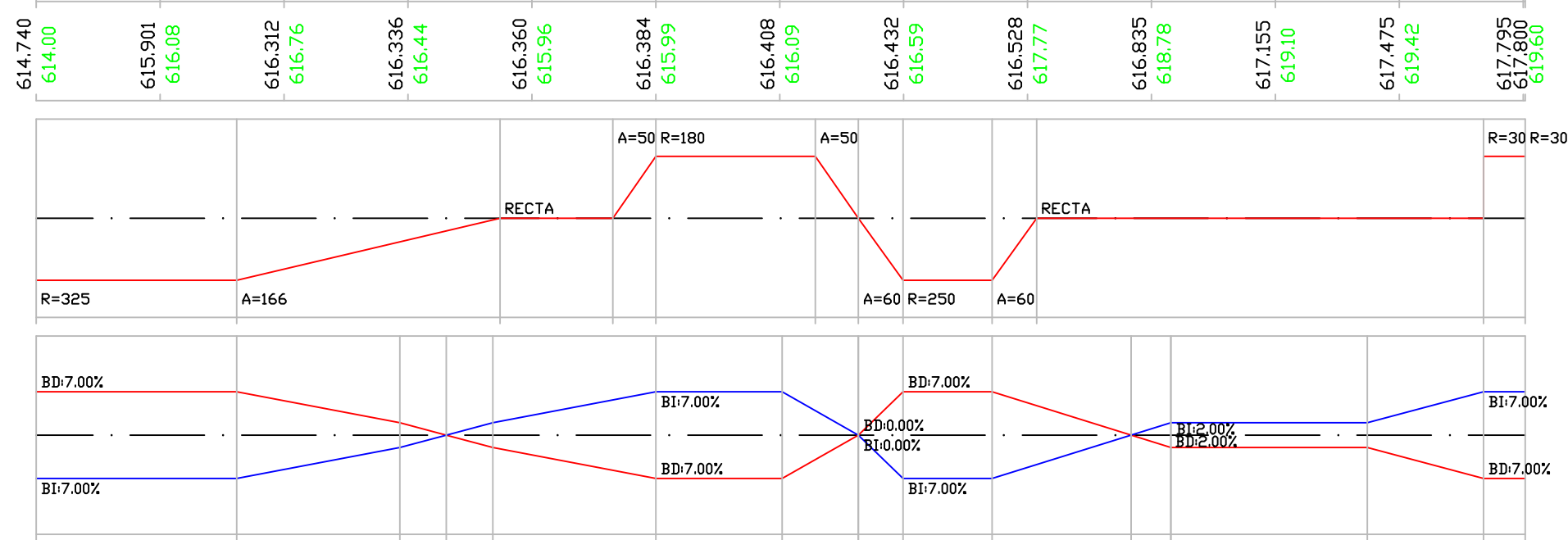
- RASANTE
- TERRENO

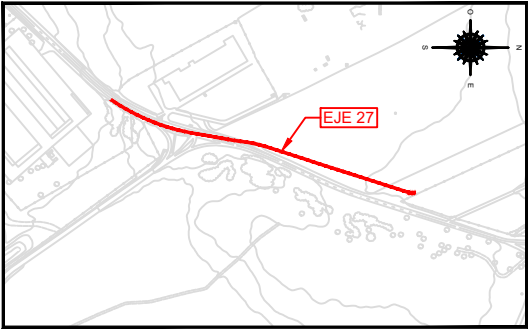


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS		

DIAGRAMA DE PERALTES		



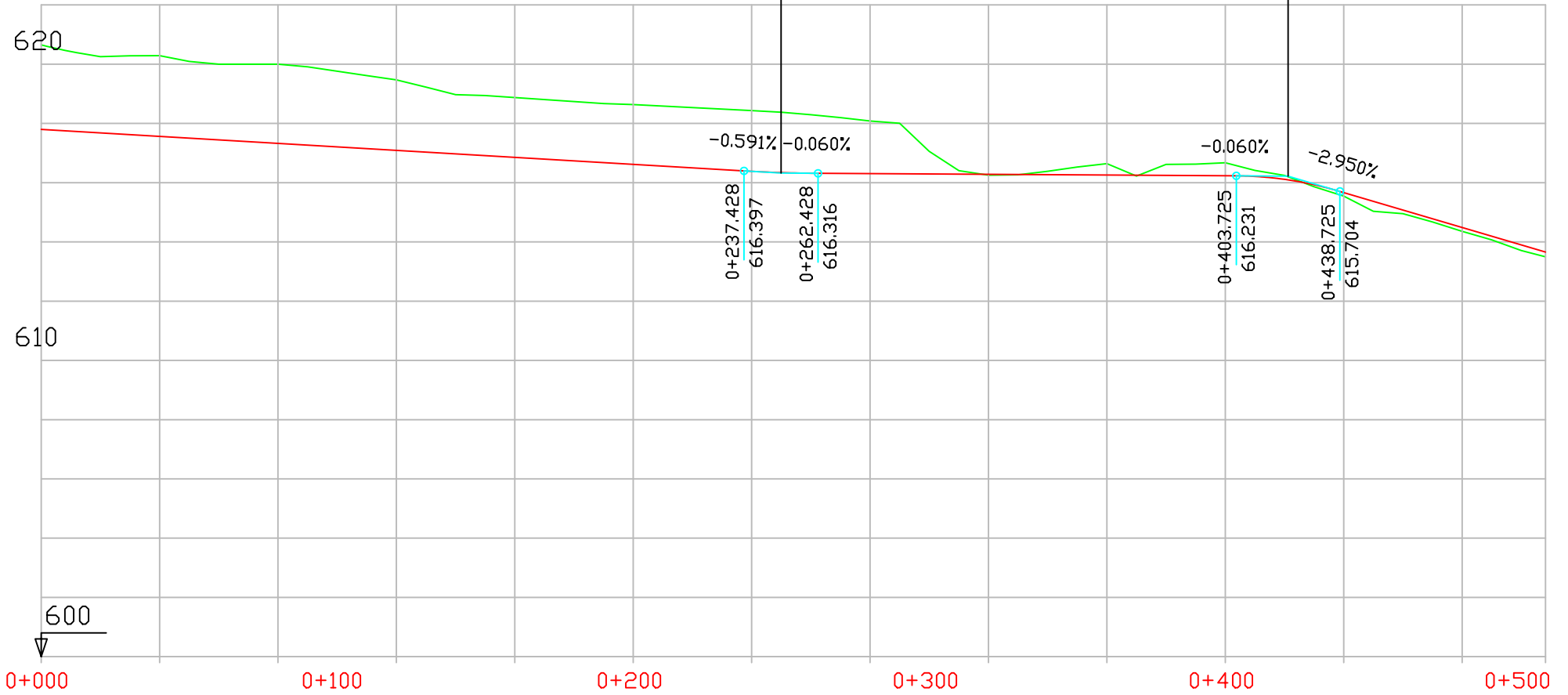


EJE 27  
PK 0+000 - 0+508.159

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

PK=	0+249.928
CV=	616.323
KV=	4709.571
W =	0.005
Lv=	25.000
D =	-0.017

PK=	0+421.225
CV=	616.221
KV=	1211.073
W =	-0.029
Lv=	35.000
D =	0.126



P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200	0+300	0+400	0+500
617.800 620.65	617.564 620.29	617.327 620.00	617.091 619.47	616.855 618.87	616.618 618.64
616.383 618.43	616.305 618.08	616.281 616.25	616.257 616.64	616.233 616.67	615.667 615.55
614.487 614.36	613.656 613.50				

DIAGRAMA  
DE  
CURVATURAS

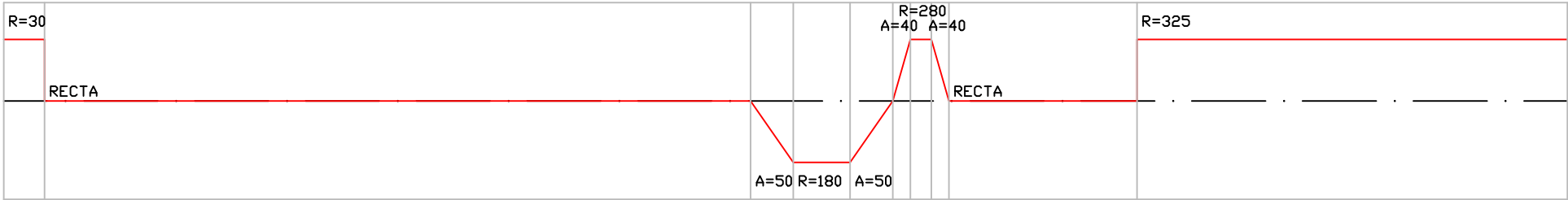
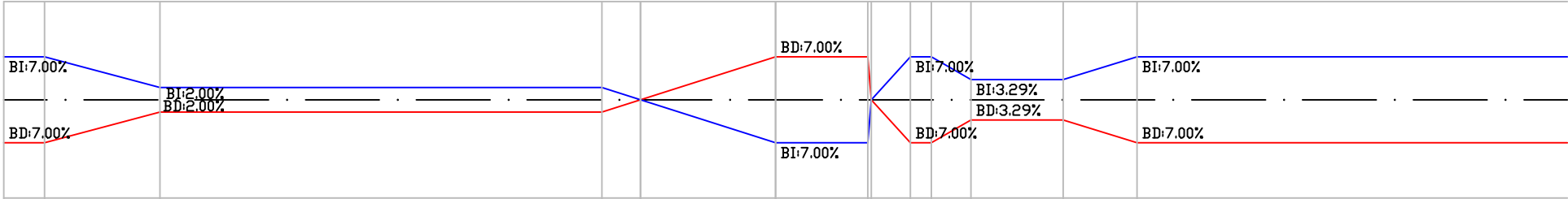


DIAGRAMA  
DE  
PERALTES



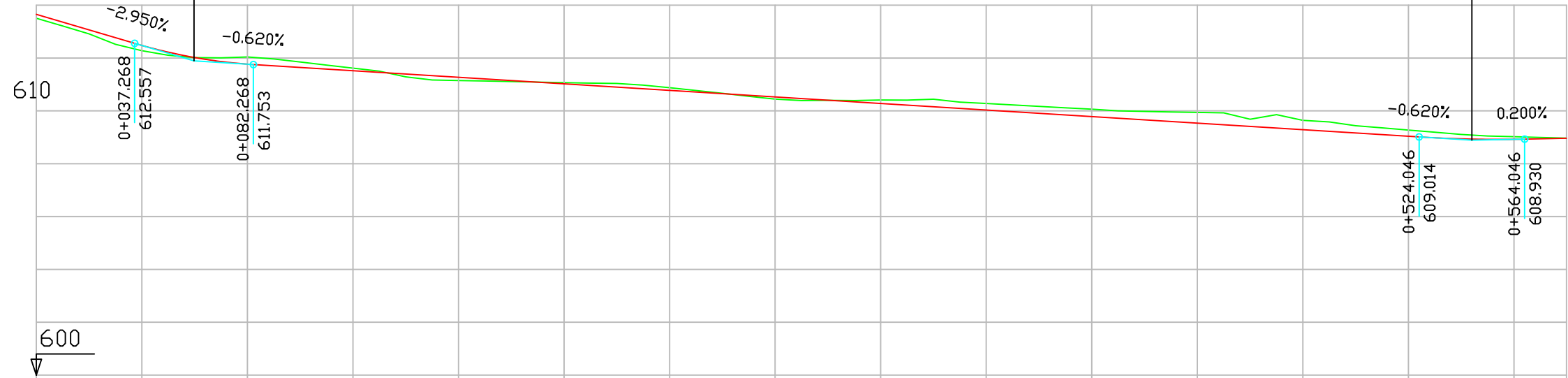


EJE 23  
PK 0+000 - 0+579.888

LEYENDA  
RASANTE  
TERRENO

PK= 0+059.768  
CV= 611.893  
KV= 1931.330  
W = 0.023  
Lv= 45.000  
D = -0.131

PK= 0+544.046  
CV= 608.890  
KV= 4878.049  
W = 0.008  
Lv= 40.000  
D = -0.041



P.K.		
COTAS	RASANTE	TERRENO

613.656	613.50	612.478	612.28	611.769	612.04	611.519	611.62	611.271	611.15	611.023	611.07	610.775	610.88	610.527	610.44	610.279	610.41	610.031	610.28	609.783	610.06	609.535	609.94	609.287	609.64	609.039	609.27	608.924	609.02	608.962	608.97
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DIAGRAMA  
DE  
CURVATURAS

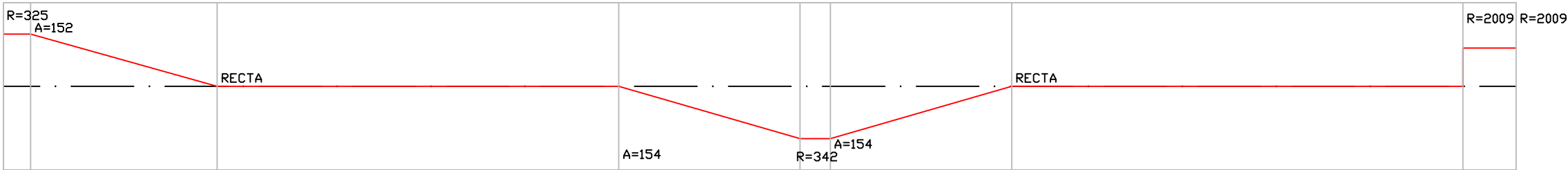
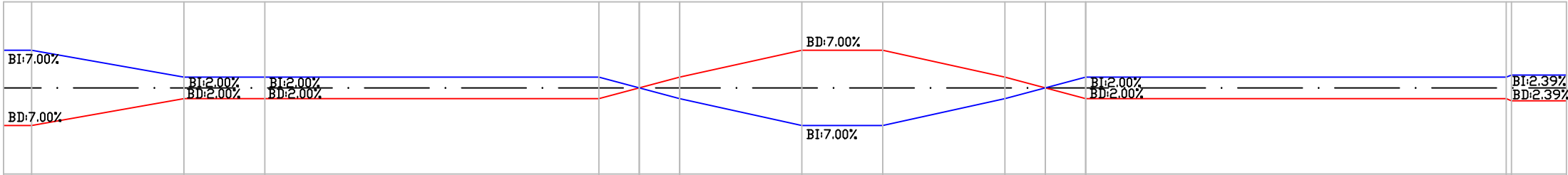
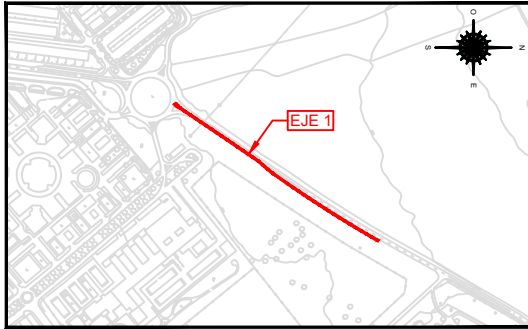


DIAGRAMA  
DE  
PERALTES





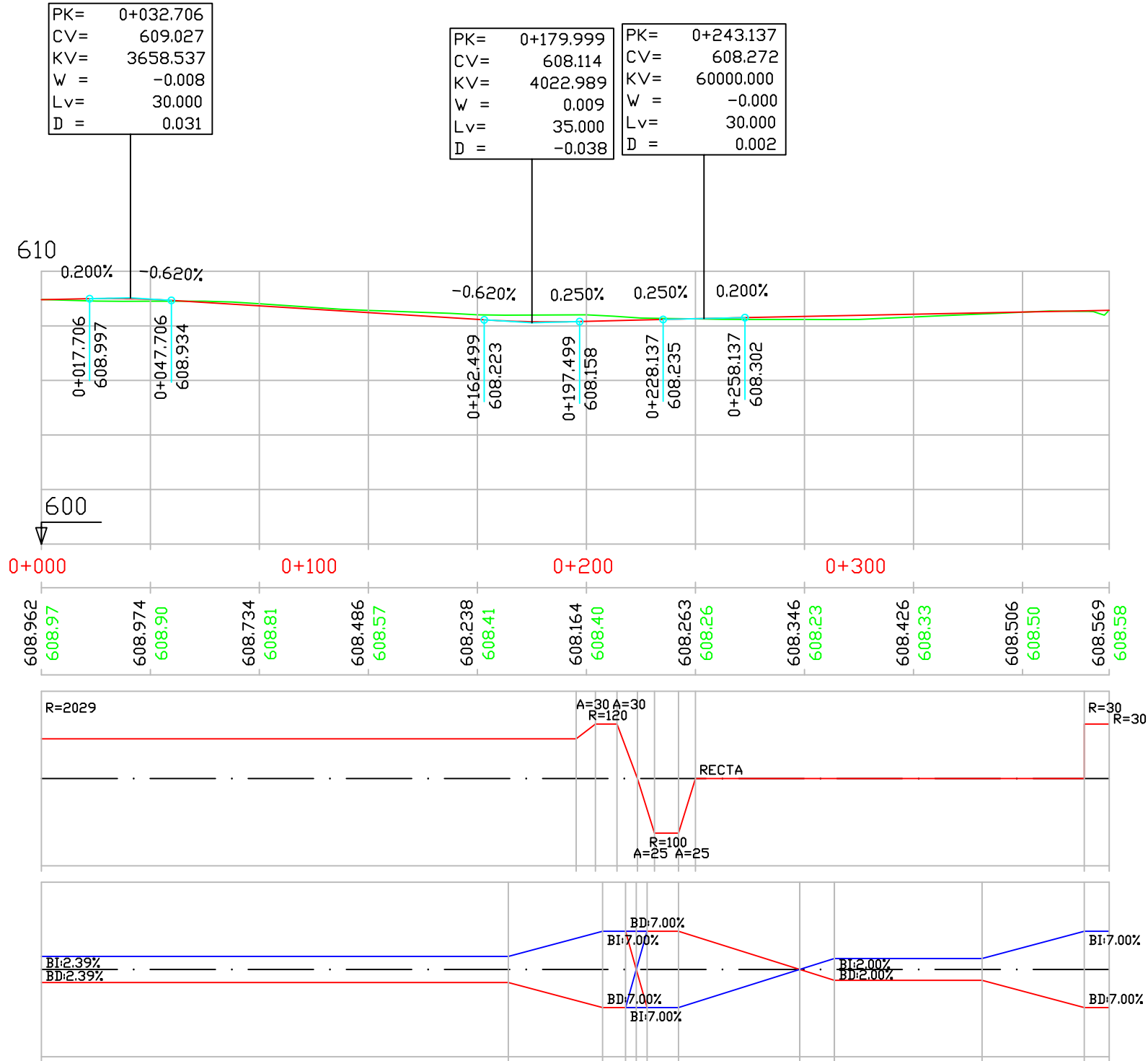


EJE 1  
PK 0+000 - 0+391.787

LEYENDA

RASANTE

TERRENO





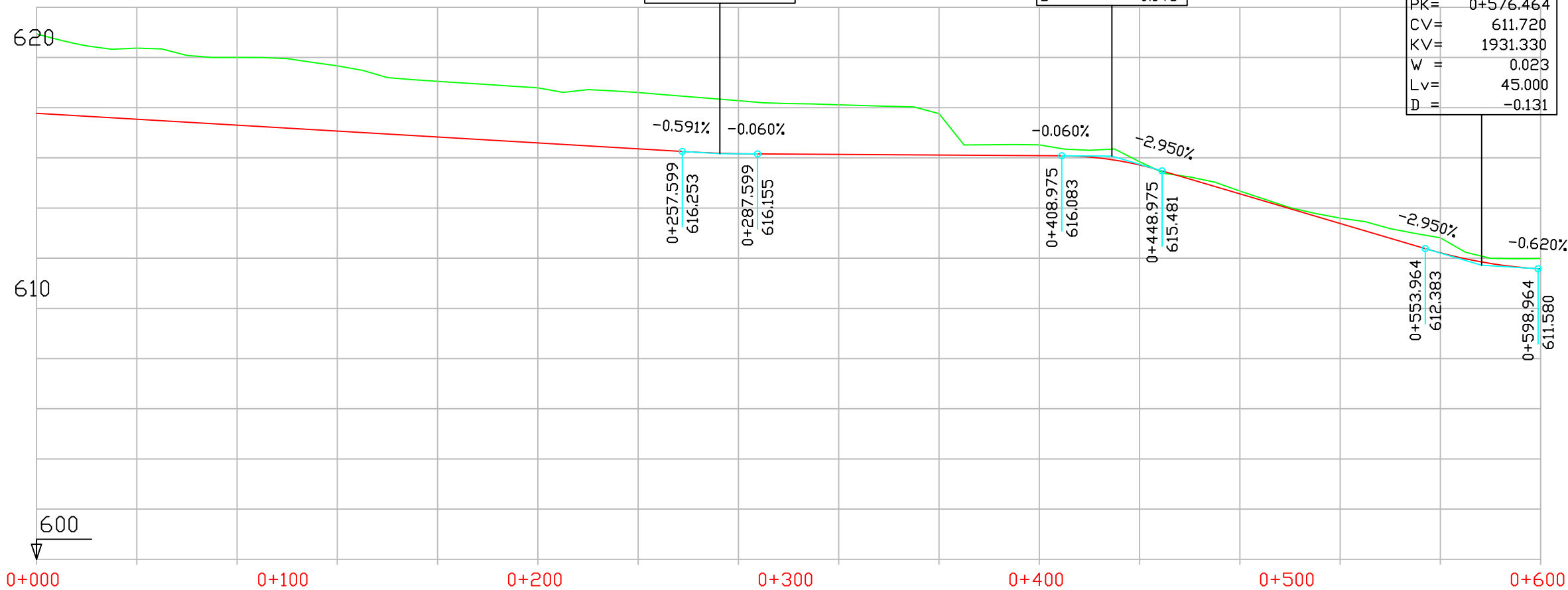
EJE 32  
PK 0+000 - 0+600

PK= 0+272.599  
CV= 616.164  
KV= 5651.485  
W = 0.005  
Lv= 30.000  
D = -0.020

PK= 0+428.975  
CV= 616.071  
KV= 1384.083  
W = -0.029  
Lv= 40.000  
D = 0.145

PK= 0+576.464  
CV= 611.720  
KV= 1931.330  
W = 0.023  
Lv= 45.000  
D = -0.131

**LEYENDA**  
— RASANTE  
— TERRENO



P.K.	COTAS	
	RASANTE	TERRENO
0+000	617.775	620.94
0+100	617.539	620.37
0+200	617.302	620.00
0+300	617.066	619.67
0+400	616.830	619.05
0+500	616.593	618.79
0+600	616.357	618.60

DIAGRAMA  
DE  
CURVATURAS

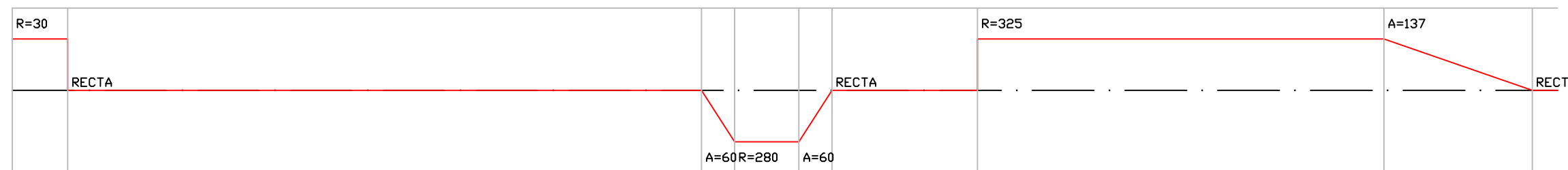
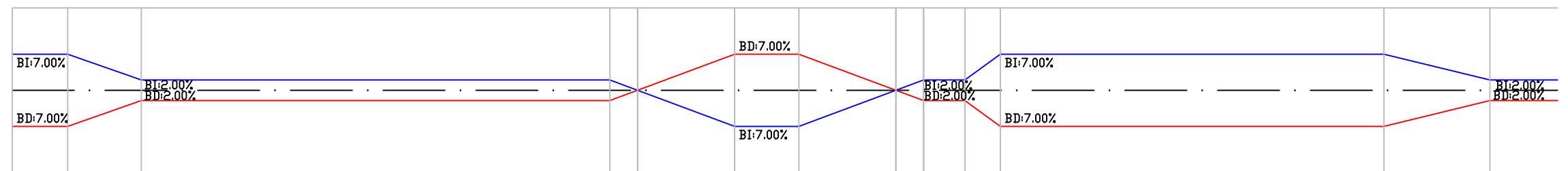
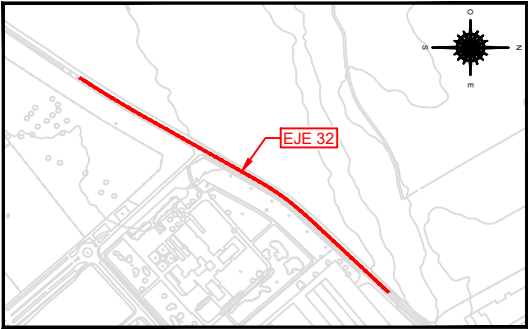


DIAGRAMA  
DE  
PERALTES

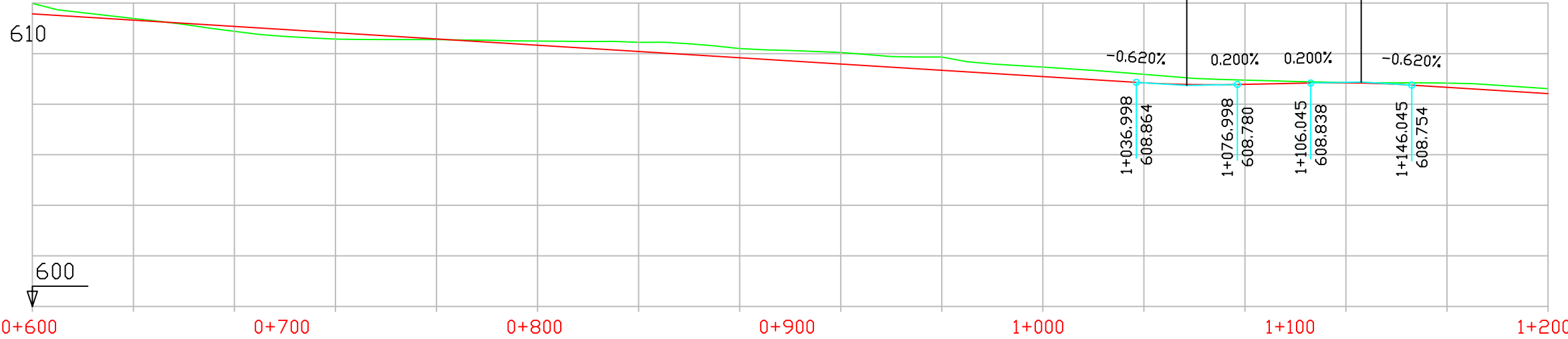




EJE 32  
PK 0+600 - 1+200

PK=	1+056.998	PK=	1+126.045
CV=	608.740	CV=	608.878
KV=	4878.049	KV=	4878.049
W =	0.008	W =	-0.008
Lv=	40.000	Lv=	40.000
D =	-0.041	D =	0.041

LEYENDA		
<span style="color: red;">—</span>	RASANTE	
<span style="color: green;">—</span>	TERRENO	



P.K.		
COTAS	RASANTE	TERRENO

611.574	611.326	611.078	610.830	610.582	610.334	610.086	609.838	609.590	609.342	609.094	608.847	608.786	608.846	608.668	608.420
611.99	611.39	610.88	610.57	610.56	610.50	610.45	610.20	610.05	609.87	609.47	609.18	608.95	608.86	608.83	608.61

DIAGRAMA DE CURVATURAS	
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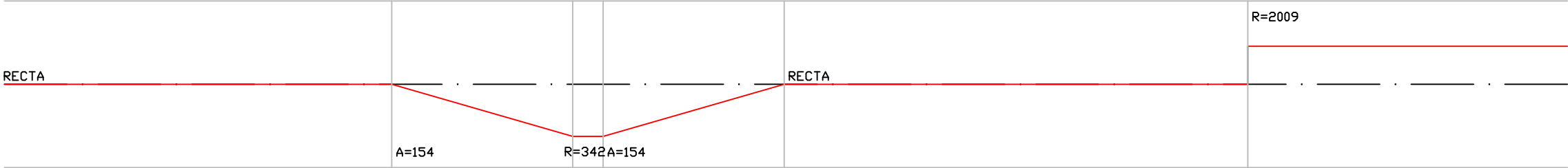
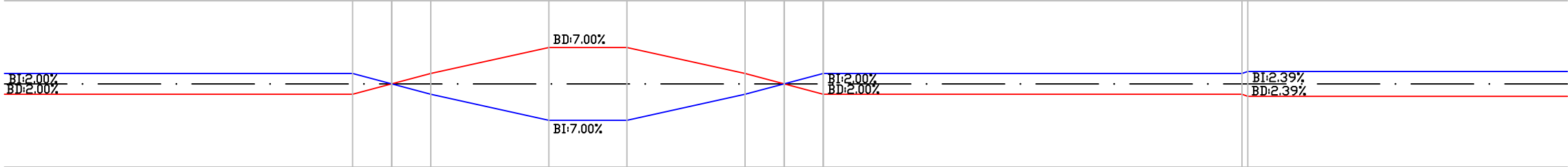
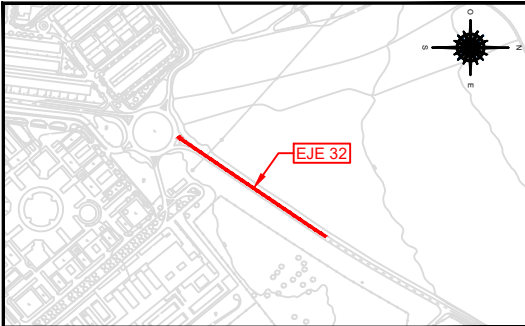


DIAGRAMA DE PERALTES	
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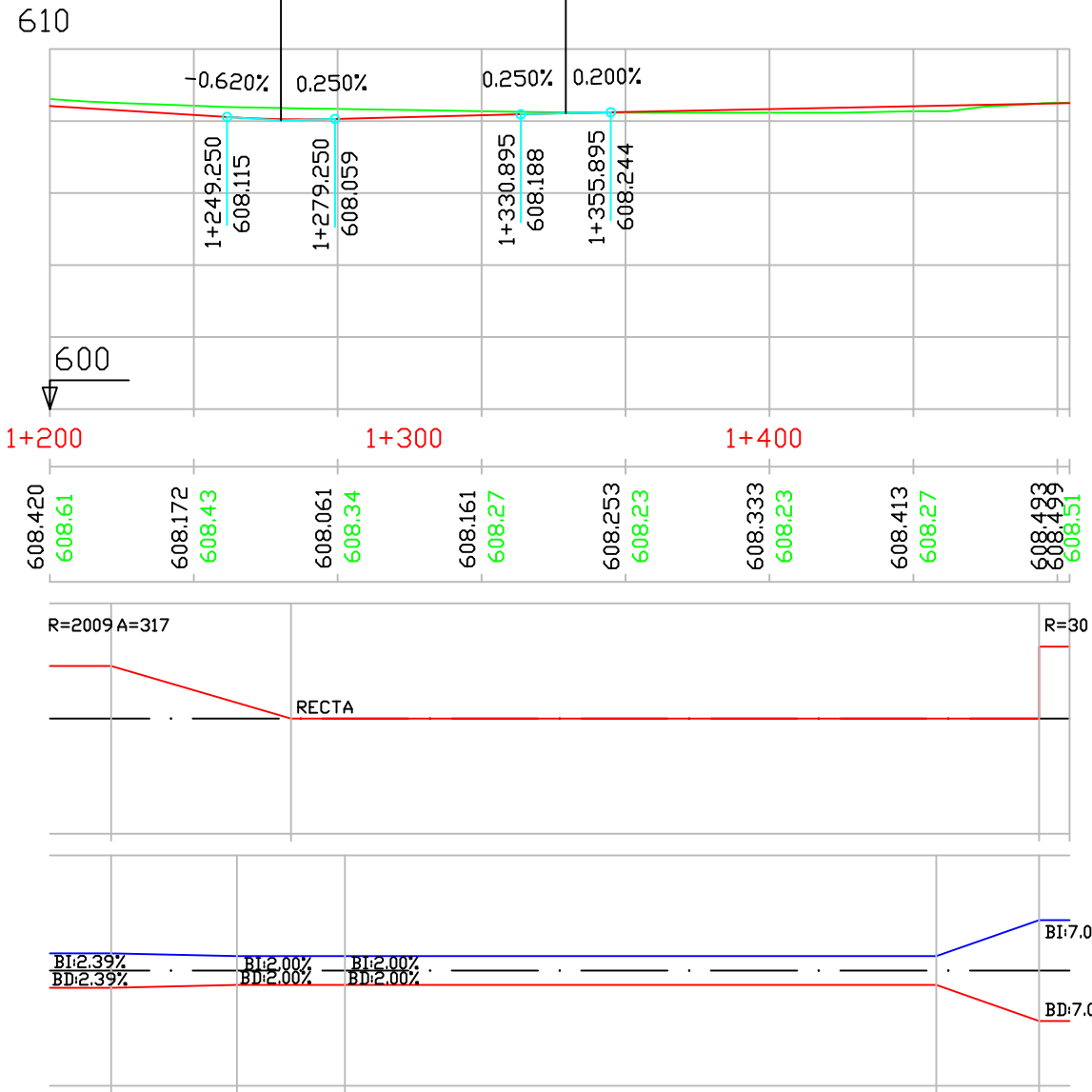


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 32  
PK 1+200 - 1+483.368

PK= 1+264.250  
CV= 608.022  
KV= 3448.276  
W = 0.009  
Lv= 30.000  
D = -0.033

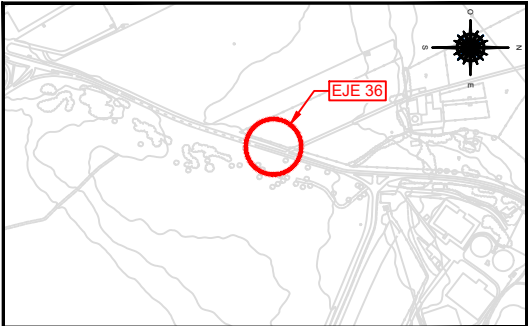
PK= 1+343.395  
CV= 608.219  
KV= 50000.000  
W = -0.000  
Lv= 25.000  
D = 0.002



P.K.	COTAS	
	RASANTE	TERRENO
1+200	608.420	608.61
1+250	608.172	608.43
1+300	608.061	608.34
1+350	608.161	608.27
1+400	608.253	608.23
1+450	608.333	608.23
1+483.368	608.413	608.27
1+483.368	608.493	608.51

DIAGRAMA DE CURVATURAS
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DIAGRAMA DE PERALTES
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EJE 36  
PK 0+000 - 0+276.460

LEYENDA

RASANTE

TERRENO

P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA

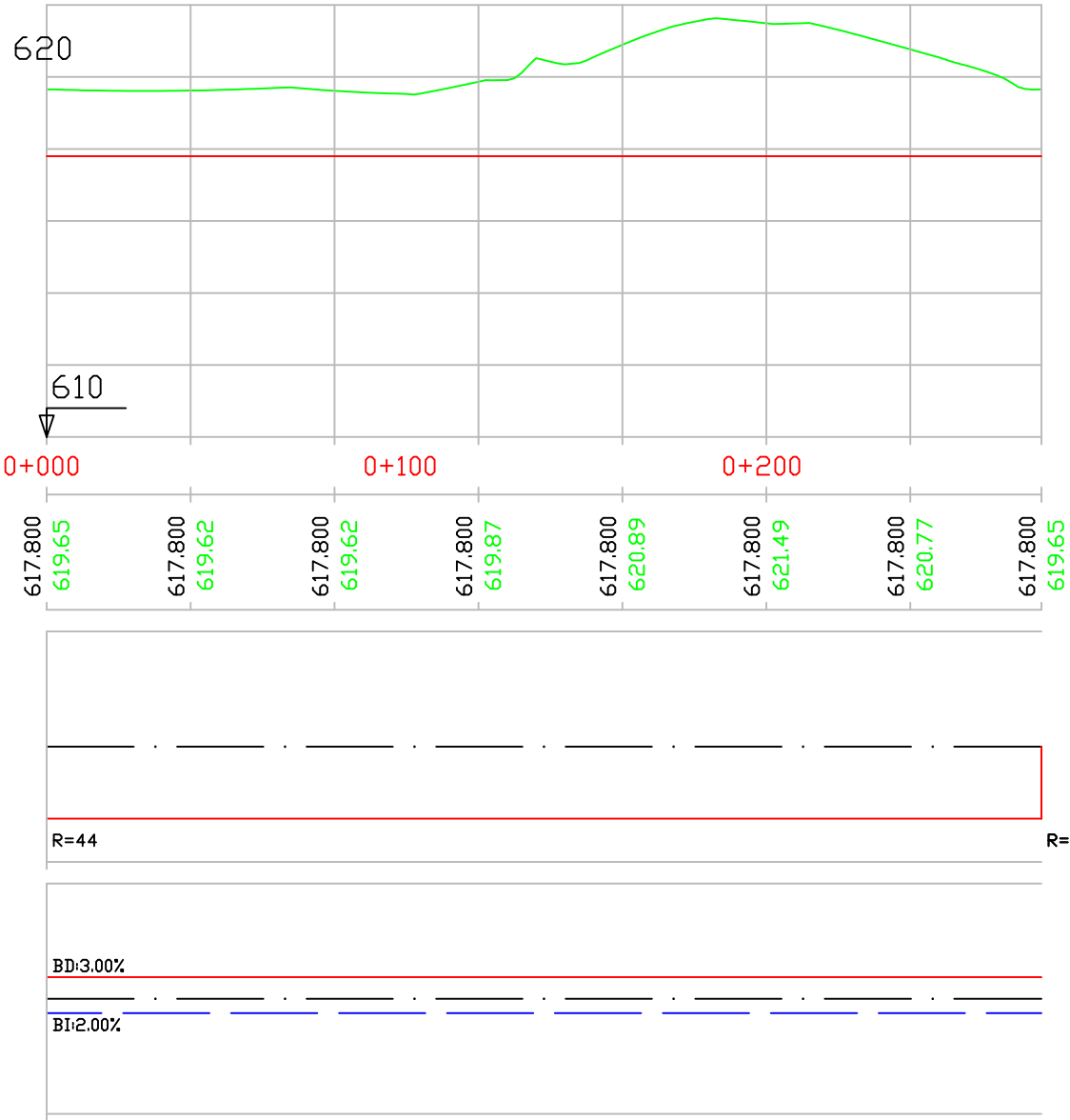
DE

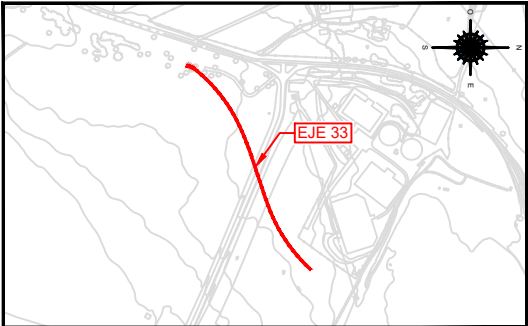
CURVATURAS

DIAGRAMA

DE

PERALTES



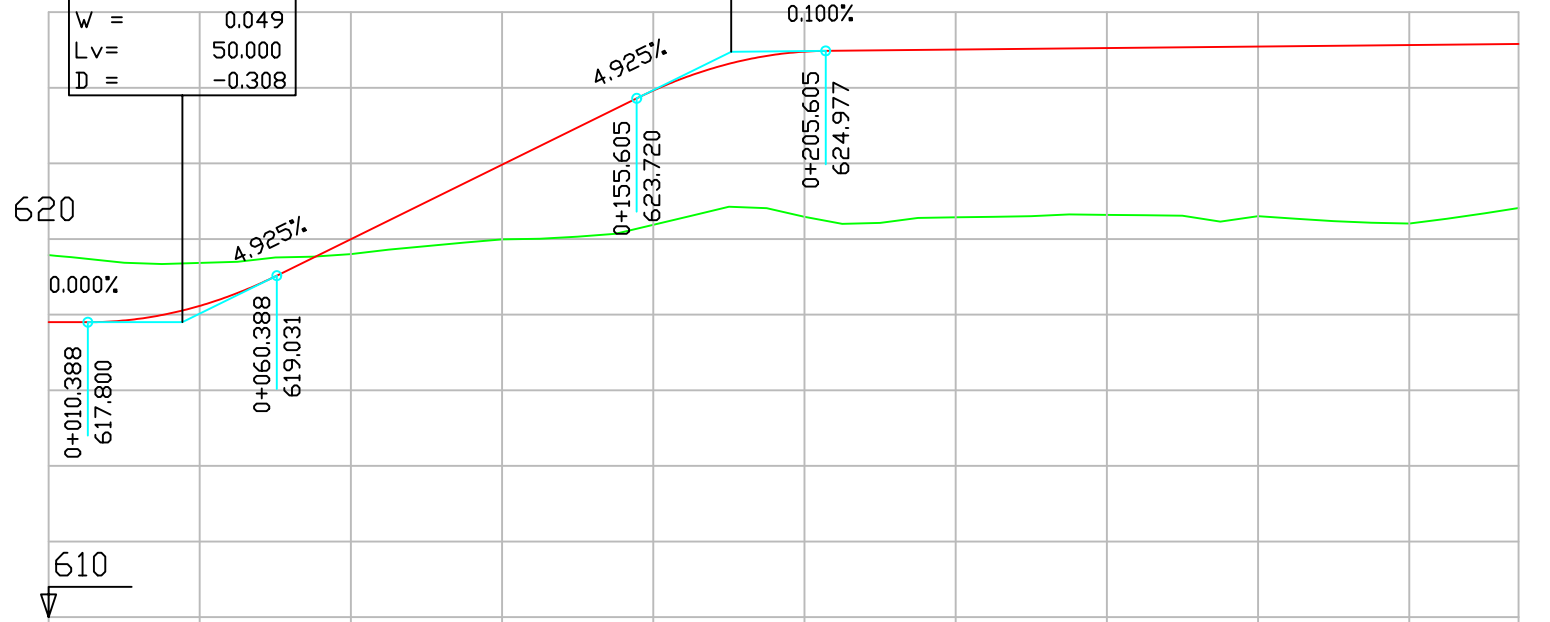


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 33  
PK 0+000 - 0+388.937

PK=	0+180.605
CV=	624.952
KV=	1036.310
W =	-0.048
Lv=	50.000
D =	0.302

PK=	0+035.388
CV=	617.800
KV=	1015.267
W =	0.049
Lv=	50.000
D =	-0.308



P.K.		
COTAS	RASANTE	TERRENO

0+000		0+100		0+200		0+300															
617.800	619.57	618.232	619.37	619.997	619.60	621.967	619.99	623.928	620.38	624.956	620.59	625.011	620.57	625.051	620.64	625.091	620.60	625.131	620.41	625.160	620.82

DIAGRAMA  
DE  
CURVATURAS

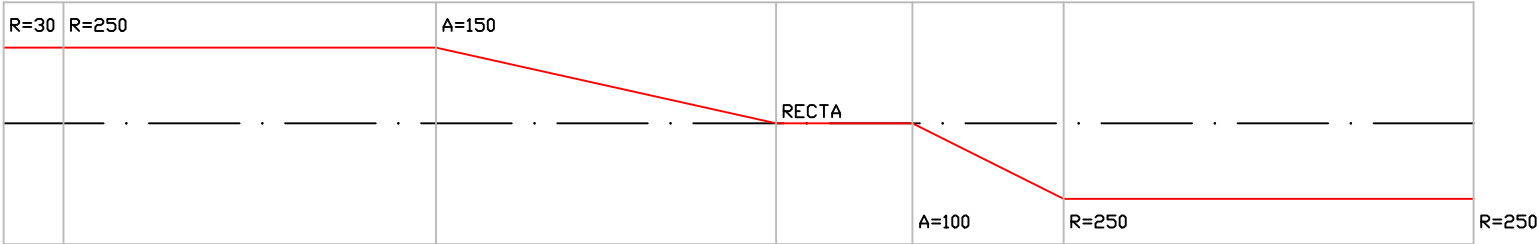
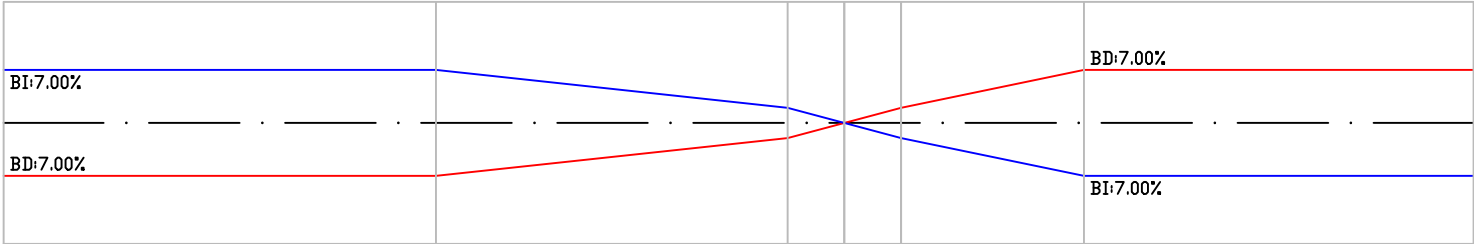
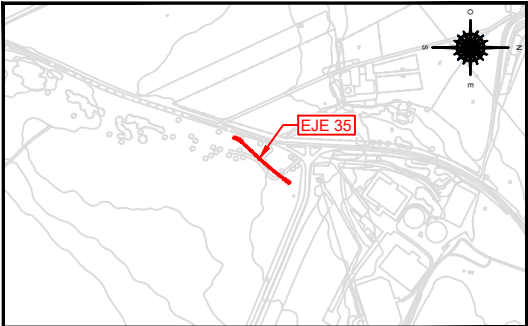


DIAGRAMA  
DE  
PERALTES



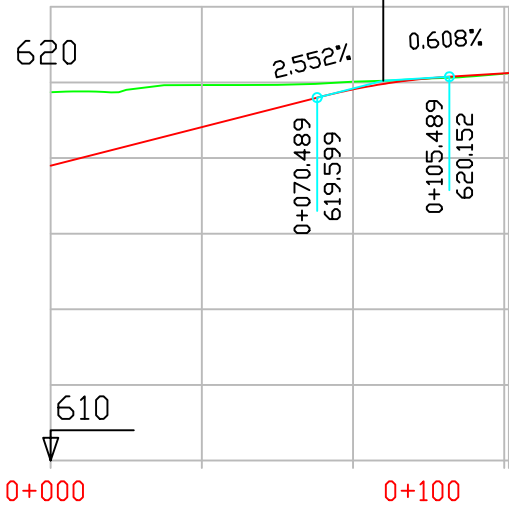




LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 35  
PK 0+000 - 0+121.232

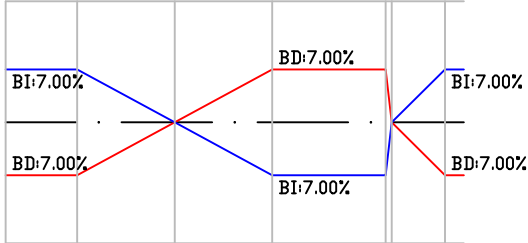
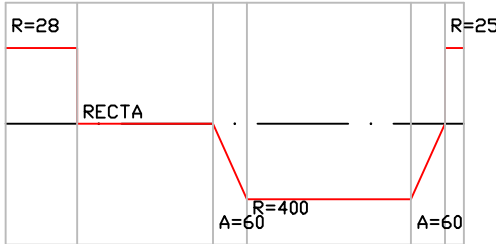
PK= 0+087.989  
CV= 620.046  
KV= 1799.913  
W = -0.019  
Lv= 35.000  
D = 0.085

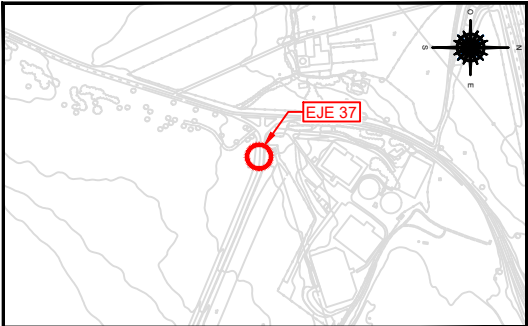


P.K.
COTAS
RASANTE
TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES





LEYENDA

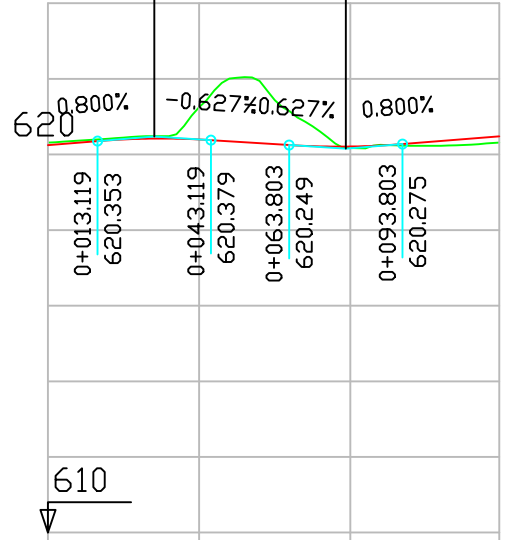
RASANTE

TERRENO

EJE 37  
PK 0+000 - 0+119.410

PK= 0+028.119  
CV= 620.473  
KV= 2102.250  
W = -0.014  
Lv= 30.000  
D = 0.054

PK= 0+078.803  
CV= 620.155  
KV= 2102.250  
W = 0.014  
Lv= 30.000  
D = -0.054



P.K.		
COTAS	RASANTE	TERRENO

0+000		0+100
620.248	620.31	620.396
		621.25
		620.210
		620.17
		620.480
		620.31

DIAGRAMA  
DE  
CURVATURAS

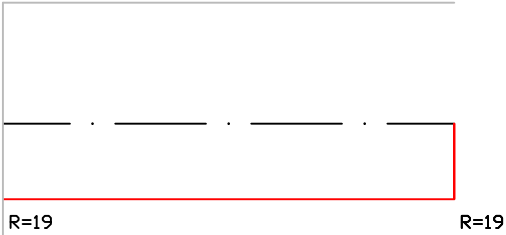
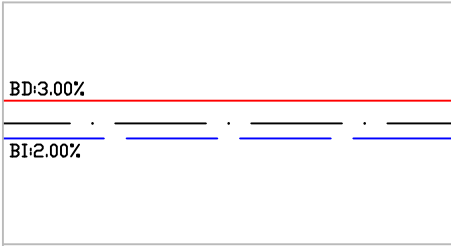
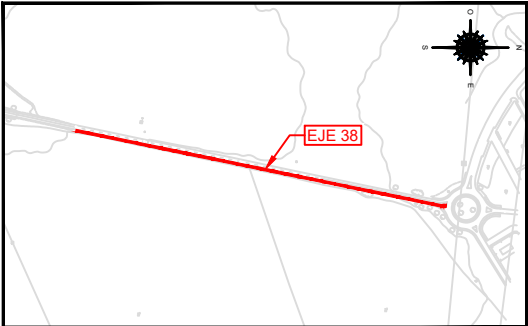


DIAGRAMA  
DE  
PERALTES

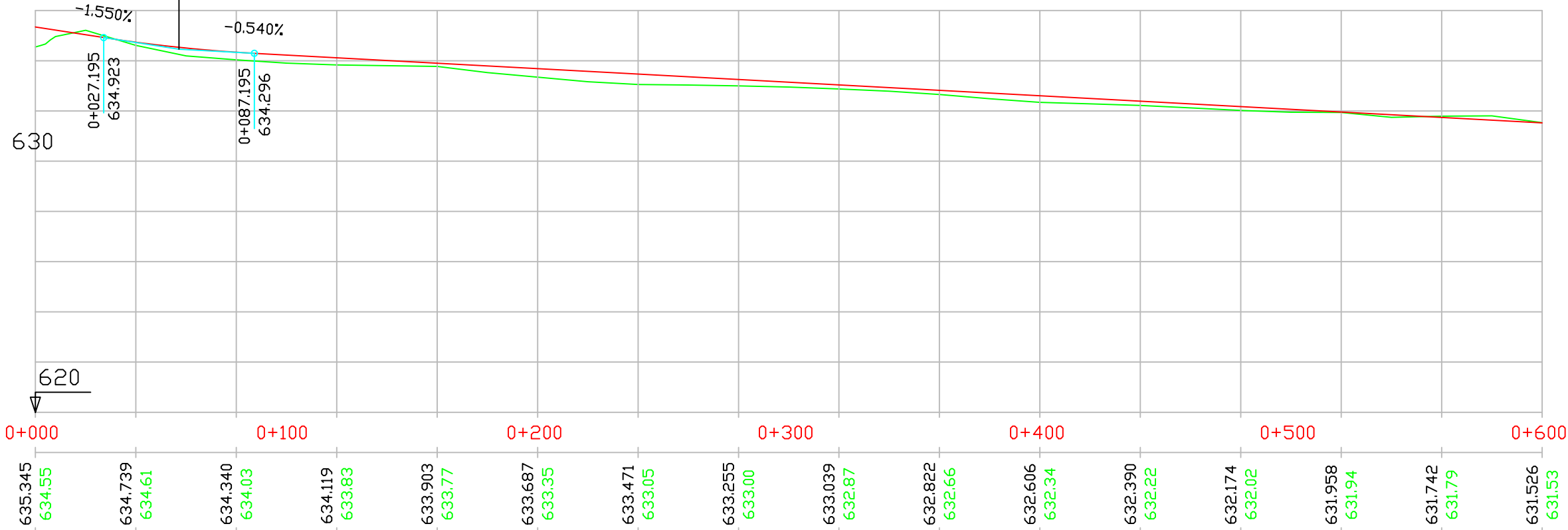




EJE 38  
PK 0+000 - 0+600

PK= 0+057.195  
CV= 634.458  
KV= 5942.459  
W = 0.010  
Lv= 60.000  
D = -0.076

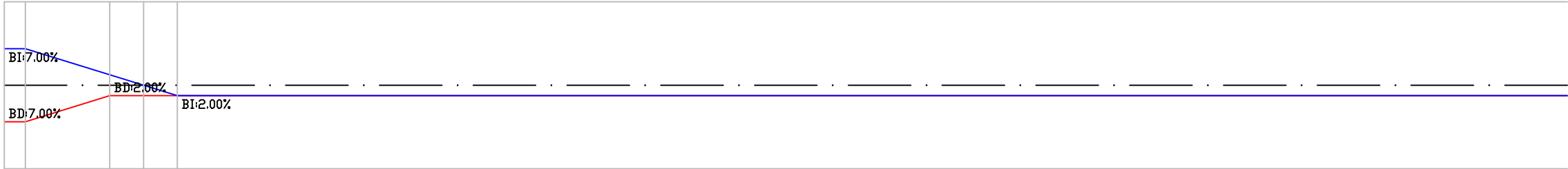
LEYENDA  
— RASANTE  
— TERRENO



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES

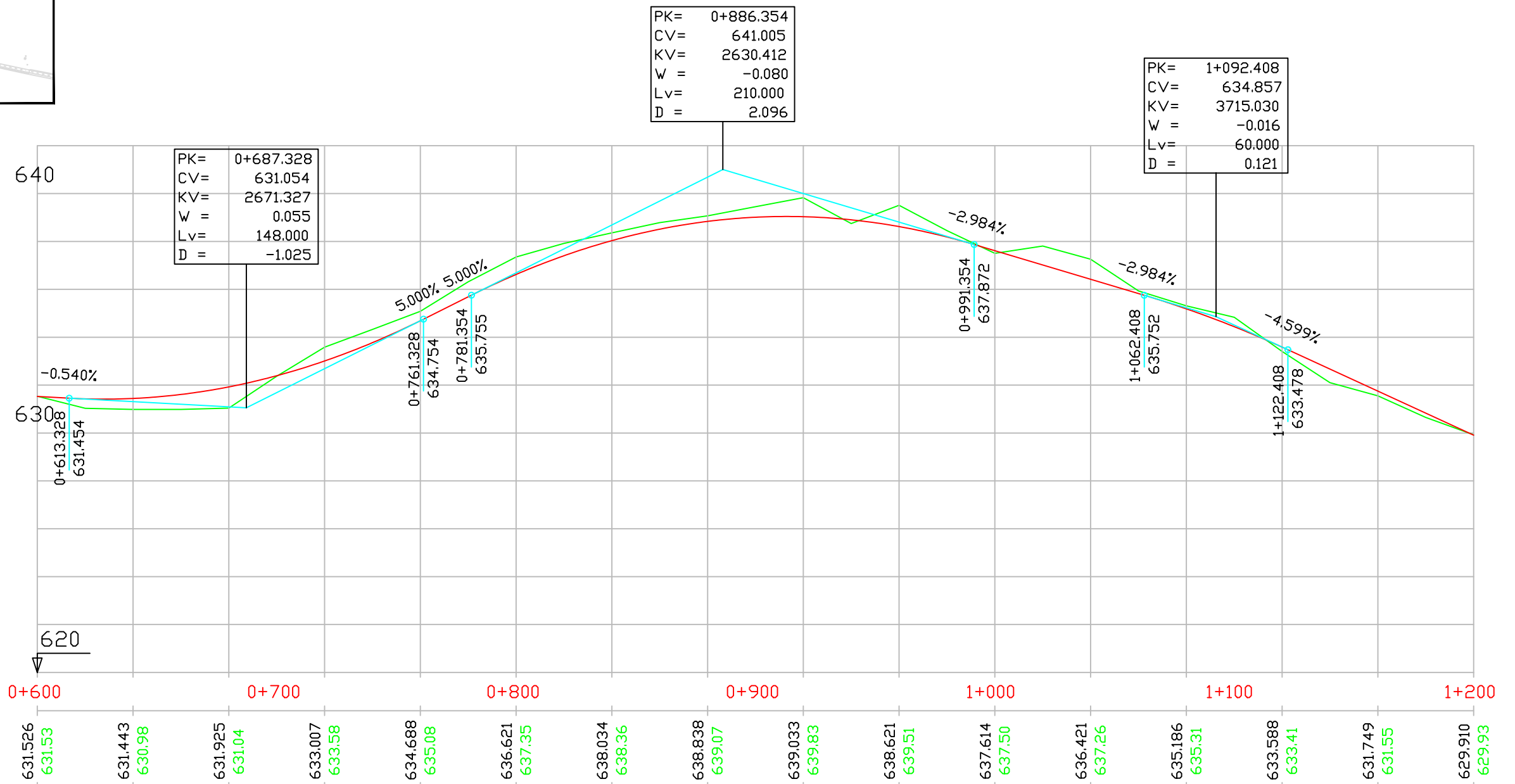




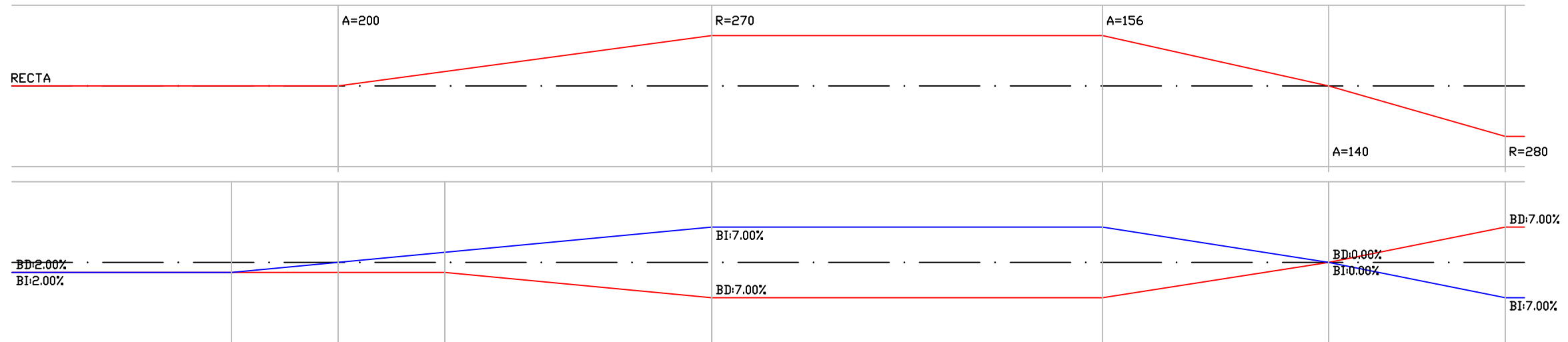
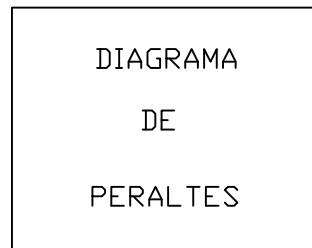
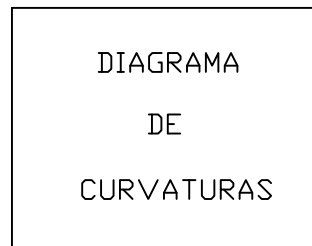


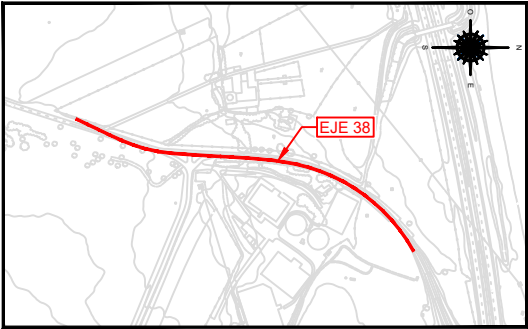
EJE 38  
PK 0+600 - 1+200

LEYENDA  
RASANTE  
TERRENO



P.K.	COTAS	RASANTE	TERRENO
0+600	631.526	631.53	631.454
0+700	631.443	630.98	631.04
0+800	631.925	633.07	633.58
0+900	634.688	635.08	635.755
1+000	636.621	637.35	638.034
1+100	638.838	639.07	639.83
1+200	639.033	639.83	637.50





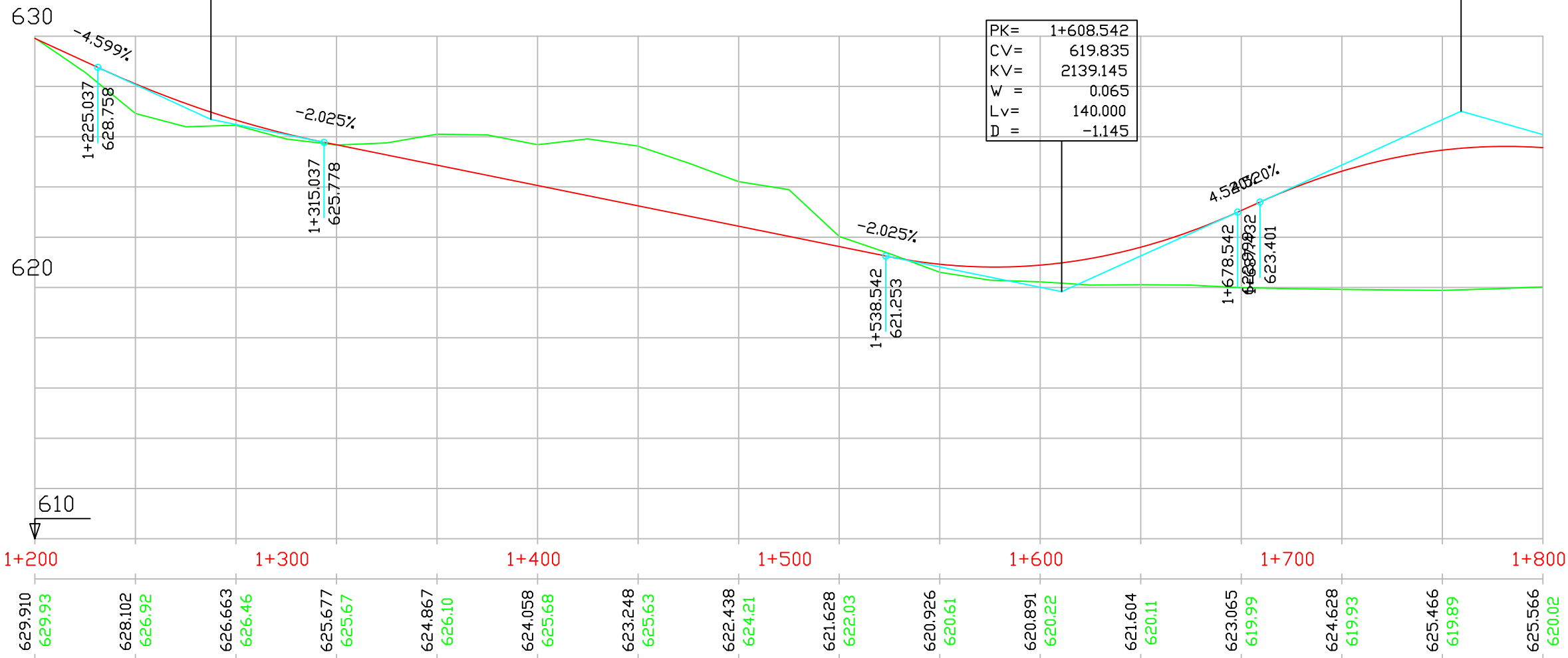
EJE 38  
PK 1+200 - 1+800

PK= 1+270.037  
CV= 626.689  
KV= 3496.601  
W = 0.026  
Lv= 90.000  
D = -0.290

PK= 1+767.432  
CV= 627.017  
KV= 2167.108  
W = -0.074  
Lv= 160.000  
D = 1.477

**LEYENDA**

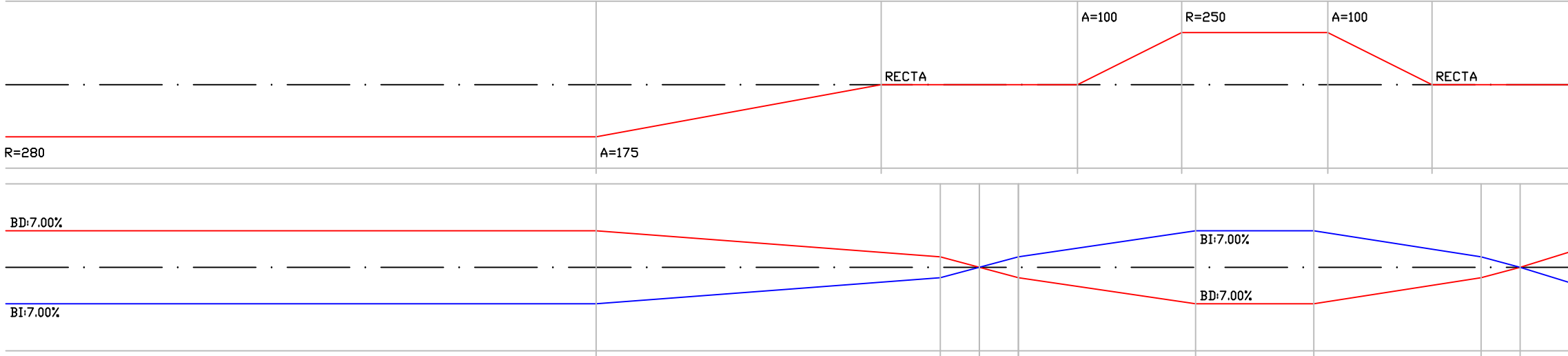
- RASANTE
- TERRENO

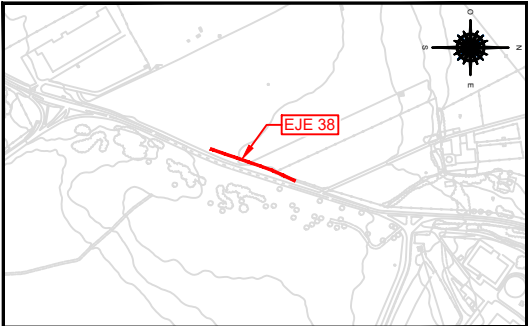


P.K.		
COTAS	RASANTE	TERRENO
1+200	629.910	629.93
1+250	628.102	626.92
1+300	626.663	626.46
1+350	625.677	625.67
1+400	624.867	626.10
1+450	624.058	625.68
1+500	623.248	625.63
1+550	622.438	624.21
1+600	621.628	622.03
1+650	620.926	620.61
1+700	620.891	620.22
1+750	621.604	620.11
1+800	623.065	619.99
1+850	624.628	619.93
1+900	625.466	619.89
1+950	625.566	620.02

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES



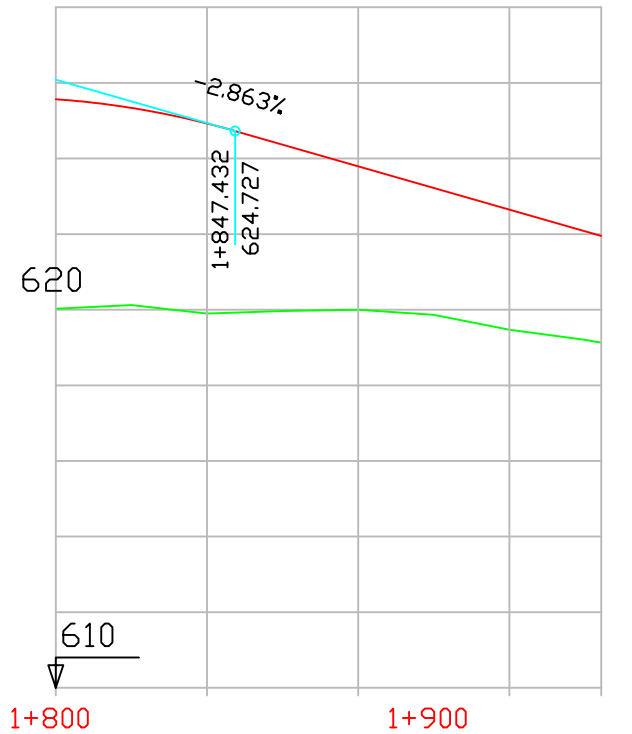


EJE 38  
PK 1+800 - 1+944.305

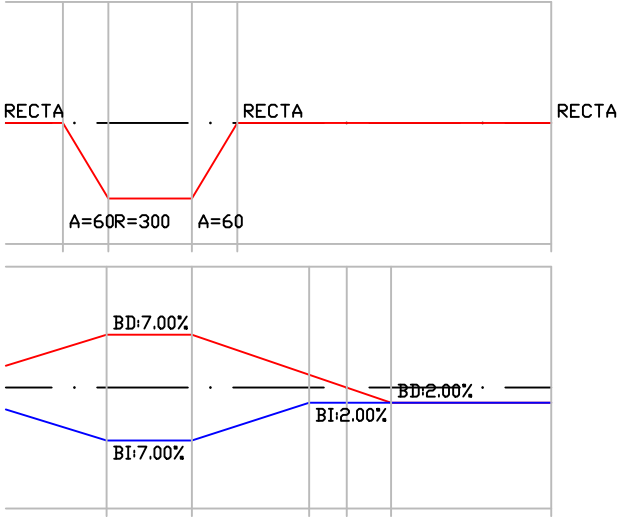
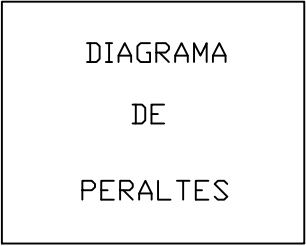
LEYENDA

RASANTE

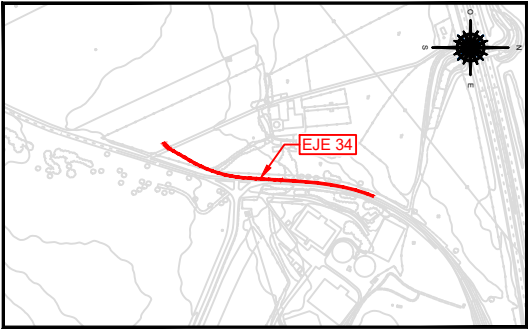
TERRENO



P.K.		
COTAS	RASANTE	TERRENO





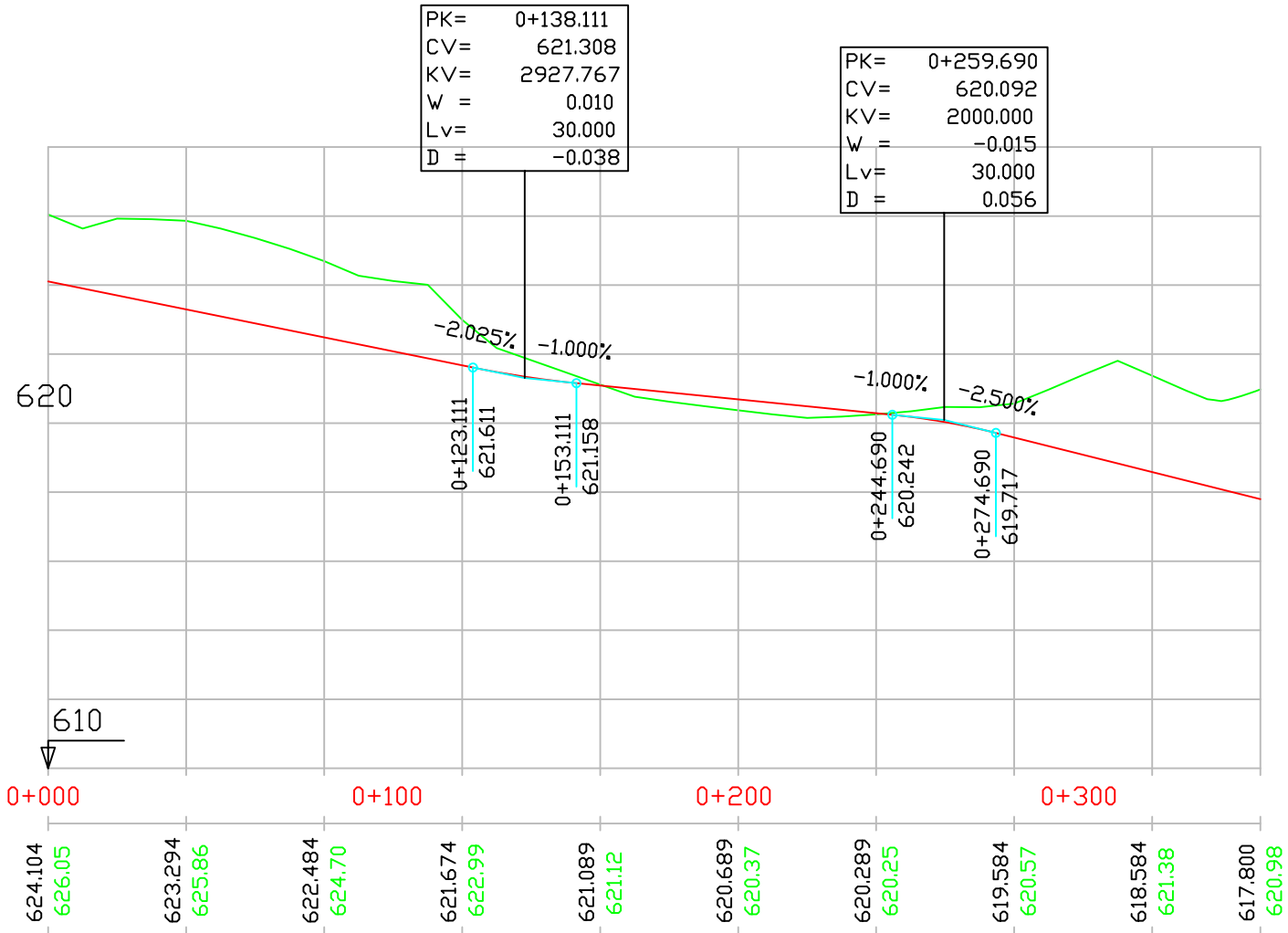


EJE 34  
PK 0+000 - 0+351.366

LEYENDA

RASANTE

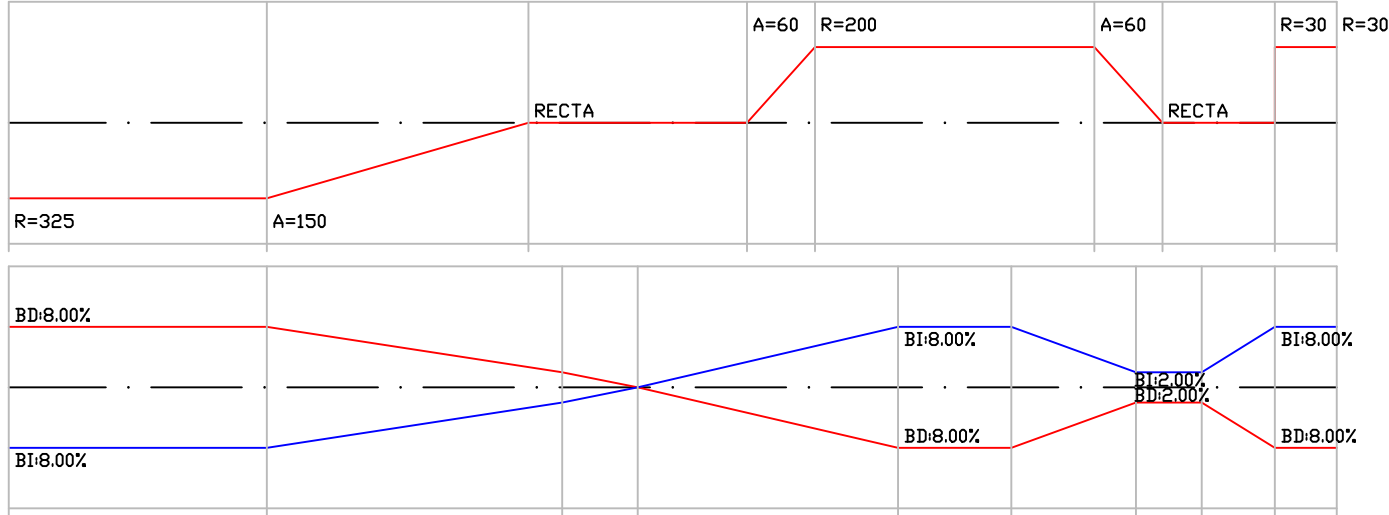
TERRENO

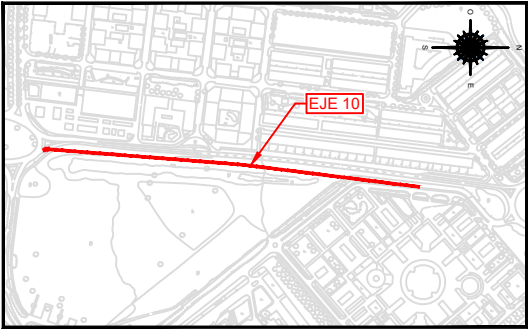


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS

DIAGRAMA DE PERALTES





EJE 10  
PK 0+000 - 0+600

**LEYENDA**

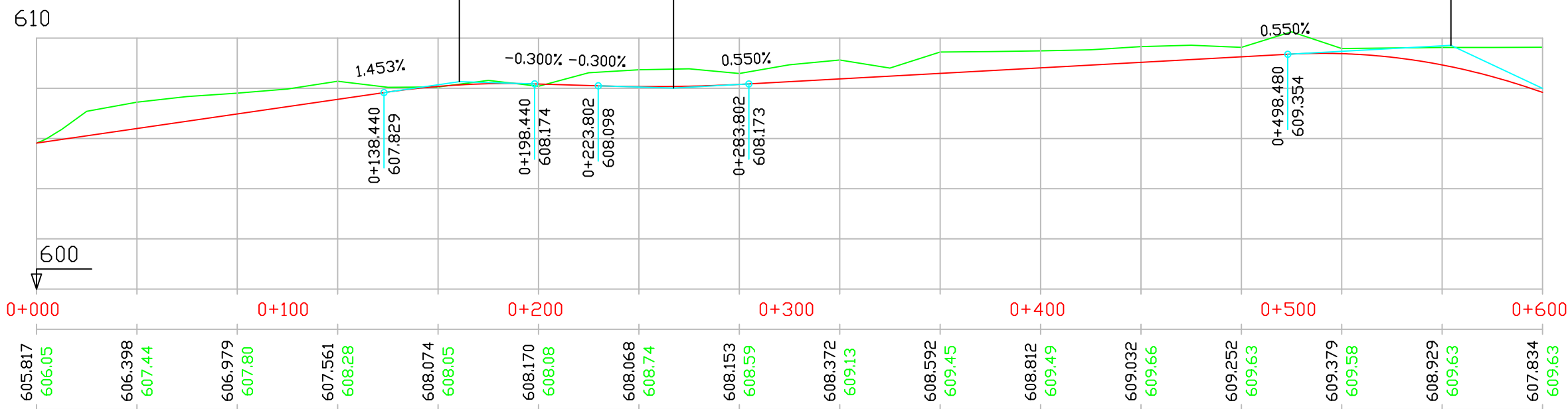
— RASANTE

— TERRENO

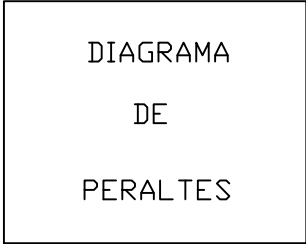
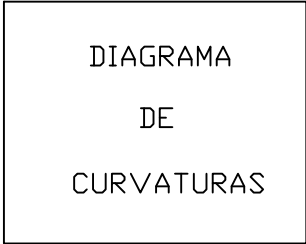
PK= 0+168.440  
CV= 608.264  
KV= 3422.704  
W = -0.018  
Lv= 60.000  
D = 0.131

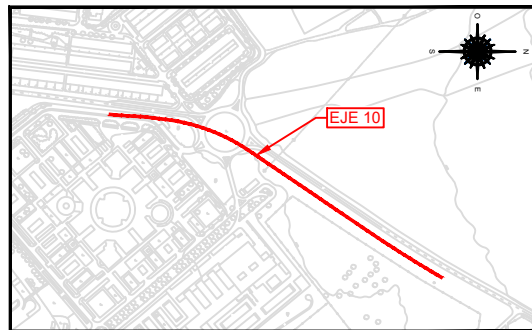
PK= 0+253.802  
CV= 608.008  
KV= 7058.824  
W = 0.008  
Lv= 60.000  
D = -0.064

PK= 0+563.480  
CV= 609.712  
KV= 2479.095  
W = -0.052  
Lv= 130.000  
D = 0.852



P.K.	COTAS RASANTE	COTAS TERRENO
0+000	605.817	606.05
0+050	606.398	607.44
0+100	606.979	607.80
0+150	607.561	608.28
0+200	608.074	608.05
0+250	608.170	608.08
0+300	608.068	608.74
0+350	608.153	608.59
0+400	608.372	609.13
0+450	608.592	609.45
0+500	608.812	609.49
0+550	609.032	609.66
0+600	609.252	609.63
0+650	609.379	609.58
0+700	608.929	609.63
0+750	607.834	609.63





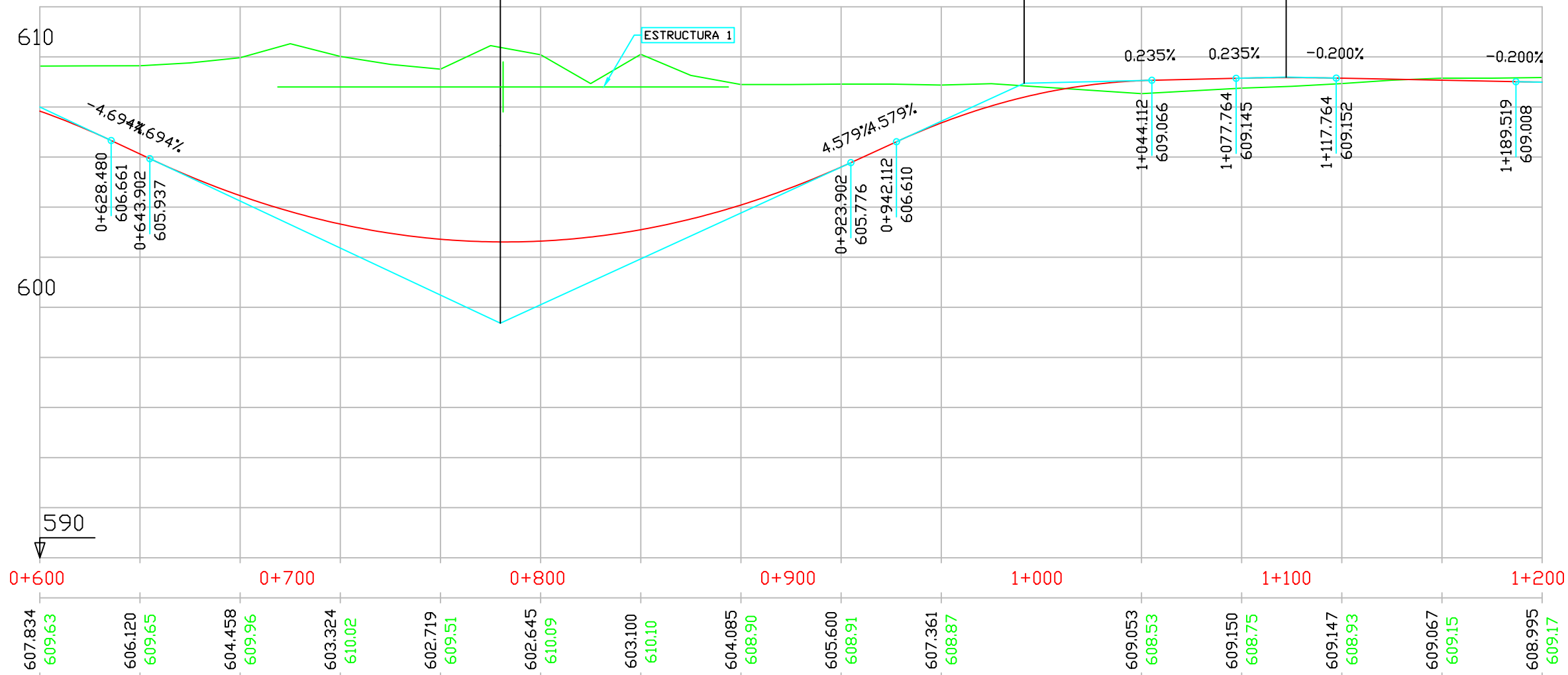
EJE 10  
PK 0+600 - 1+200

PK= 0+783.902  
CV= 599.365  
KV= 3019.422  
W = 0.093  
Lv= 280.000  
D = -3.246

PK= 0+993.112  
CV= 608.946  
KV= 2347.824  
W = -0.043  
Lv= 102.000  
D = 0.554

PK= 1+097.764  
CV= 609.192  
KV= 9195.402  
W = -0.004  
Lv= 40.000  
D = 0.022

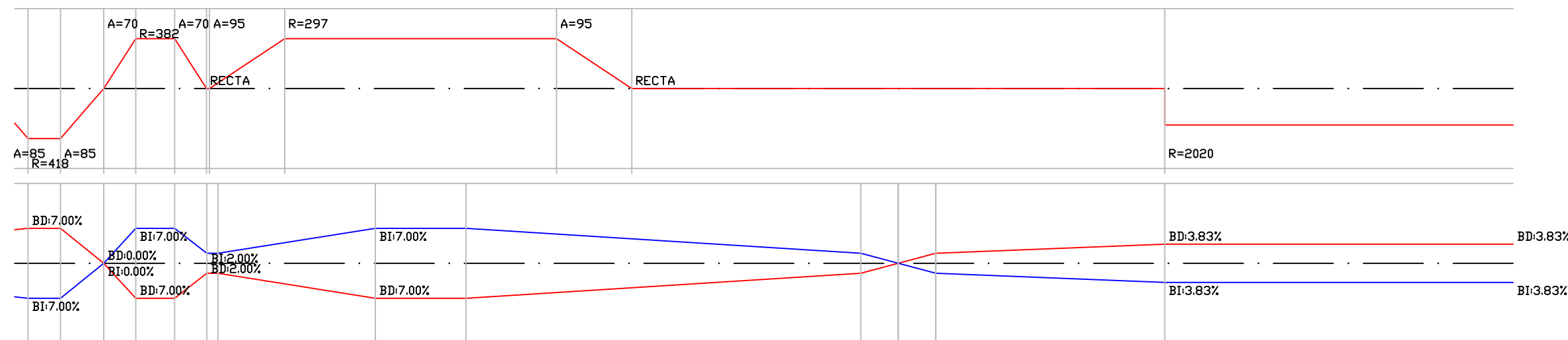
LEYENDA  
— RASANTE  
— TERRENO



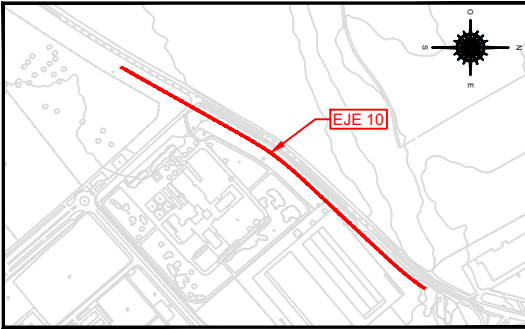
P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS		

DIAGRAMA DE PERALTES		





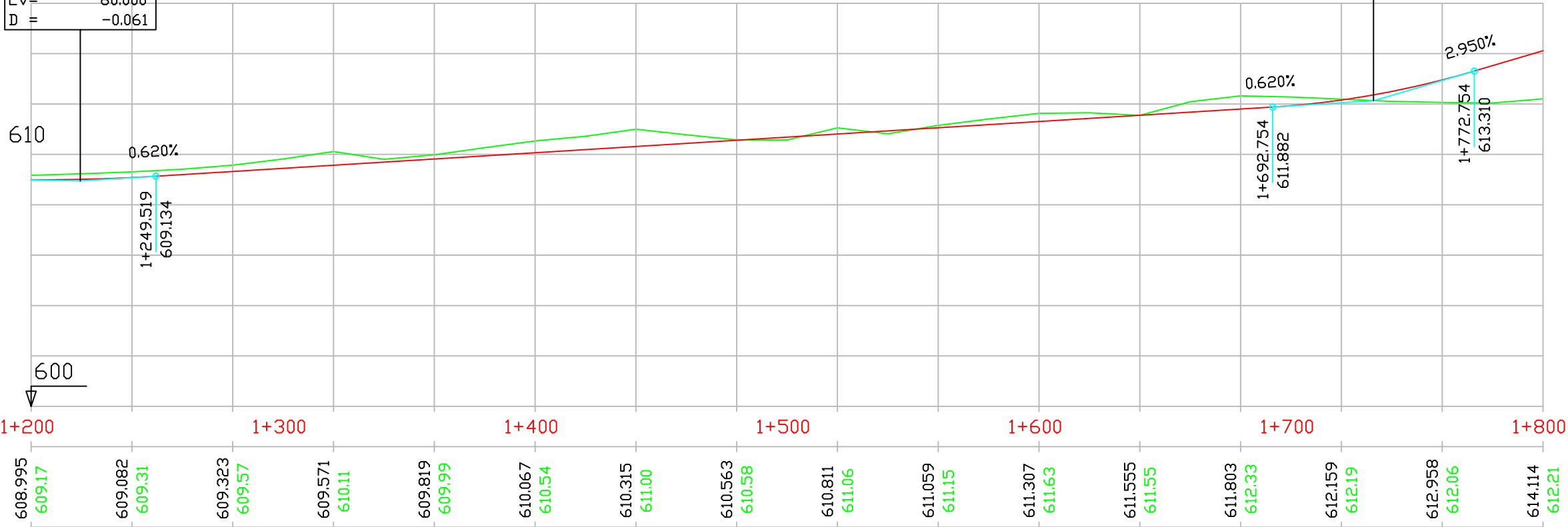


EJE 10  
PK 1+200 - 1+800

**LEYENDA**  
— RASANTE  
— TERRENO

PK= 1+219.519  
CV= 608.948  
KV= 7317.073  
W = 0.008  
Lv= 60.000  
D = -0.061

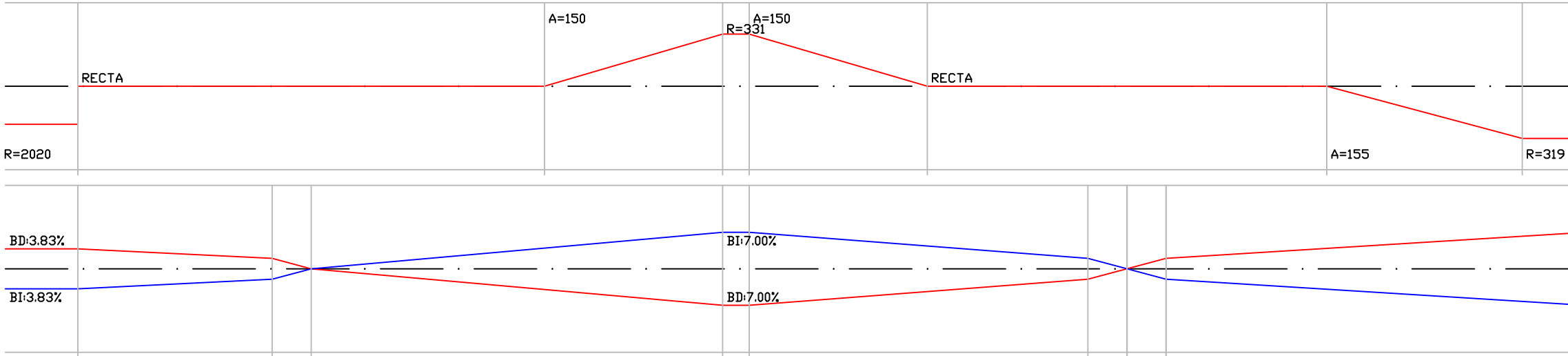
PK= 1+732.754  
CV= 612.130  
KV= 3433.476  
W = 0.023  
Lv= 80.000  
D = -0.233

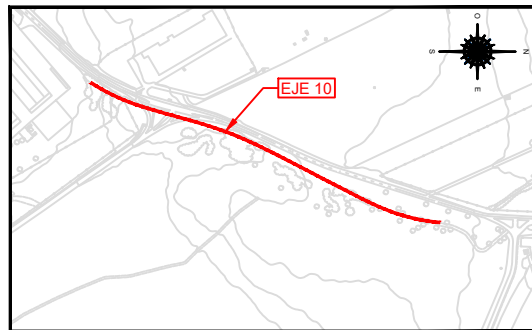


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES





EJE 10  
PK 1+800 - 2+400

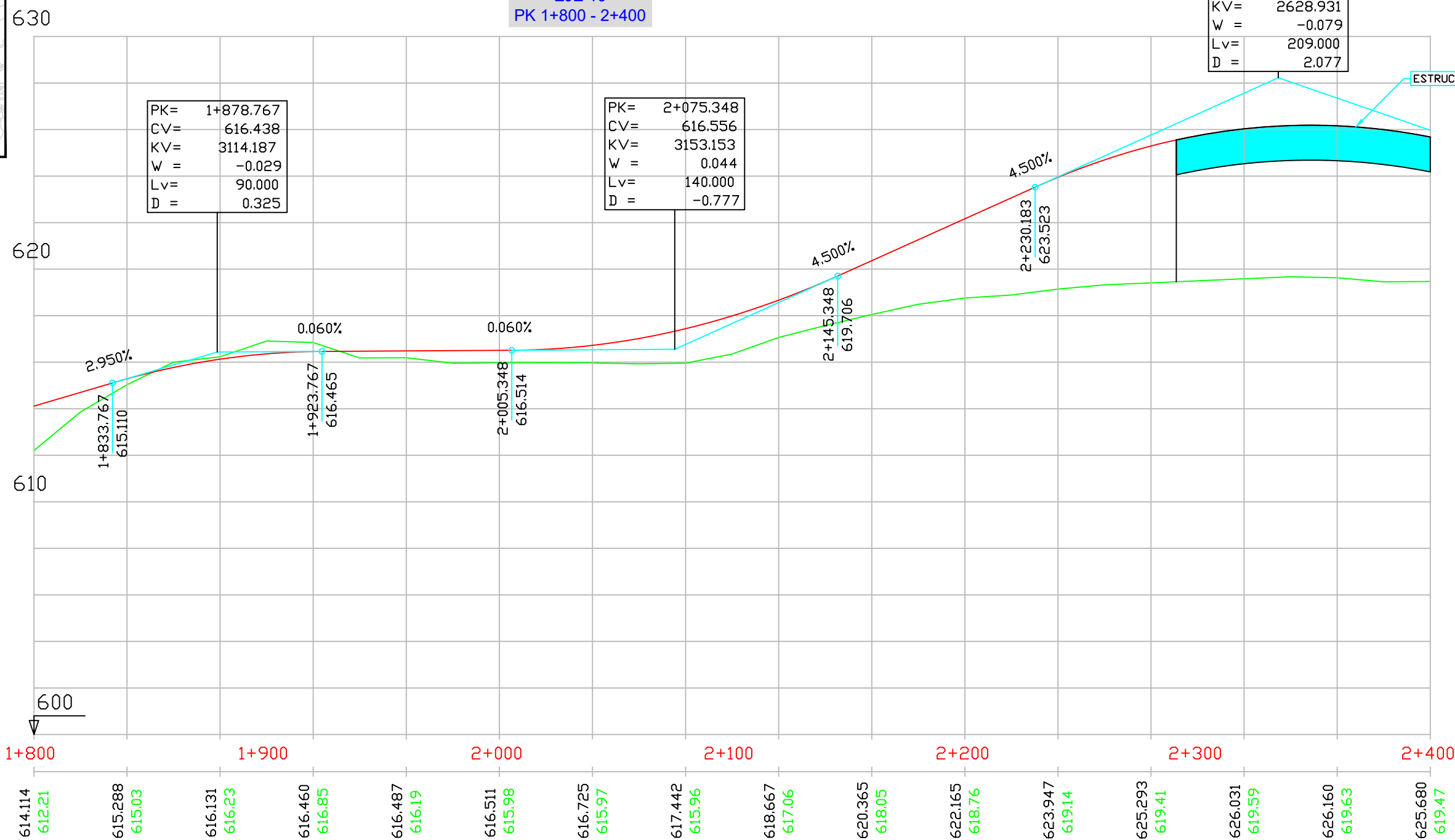
PK= 2+334.683  
CV= 628.226  
KV= 2628.931  
W = -0.079  
Lv= 209.000  
D = 2.077

ESTRUCTURA 2

PK= 1+878.767  
CV= 616.438  
KV= 3114.187  
W = -0.029  
Lv= 90.000  
D = 0.325

PK= 2+075.348  
CV= 616.556  
KV= 3153.153  
W = 0.044  
Lv= 140.000  
D = -0.777

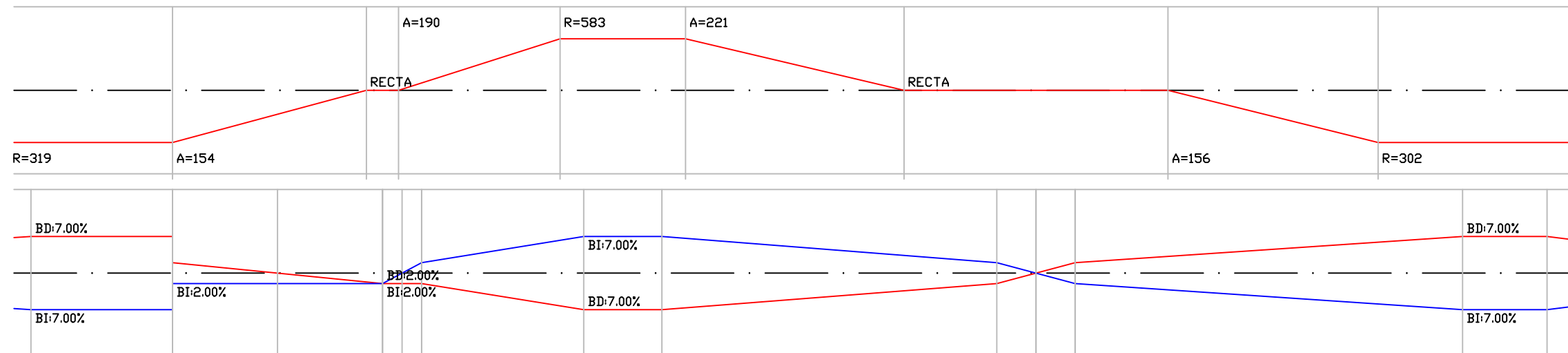
LEYENDA  
— RASANTE  
— TERRENO

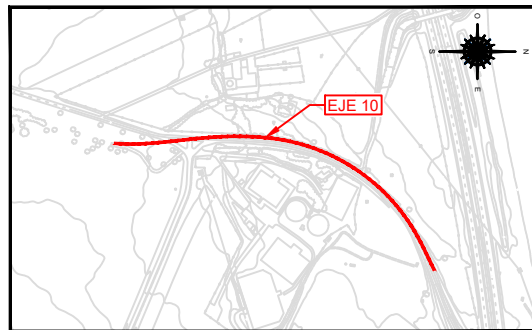


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

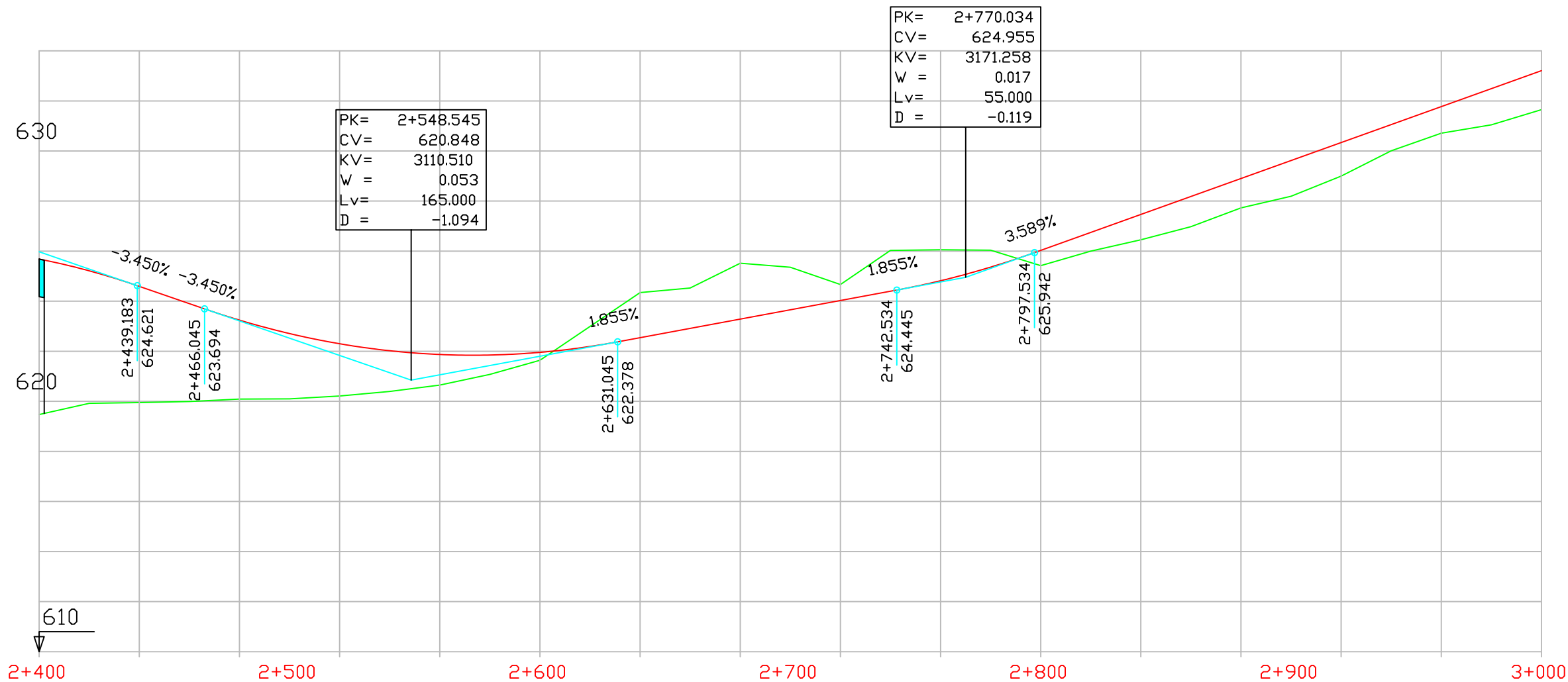
DIAGRAMA  
DE  
PERALTES





EJE 10  
PK 2+400 - 3+000

**LEYENDA**  
— RASANTE  
— TERRENO



P.K.		
COTAS	RASANTE	TERRENO

P.K.		
COTAS	RASANTE	TERRENO
2+400	625.680	619.47
2+439.183	624.592	619.95
2+466.045	623.244	620.09
2+500	622.300	620.21
2+548.545	621.871	620.65
2+600	621.957	621.64
2+631.045	622.544	624.34
2+700	623.286	625.52
2+742.534	624.027	624.66
2+770.034	624.817	626.06
2+797.534	626.031	625.42
2+800	627.466	626.45
2+900	628.902	627.73
3+000	633.209	631.65

DIAGRAMA  
DE  
CURVATURAS

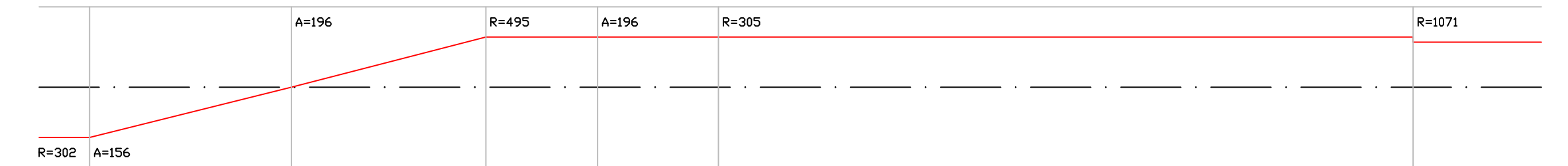
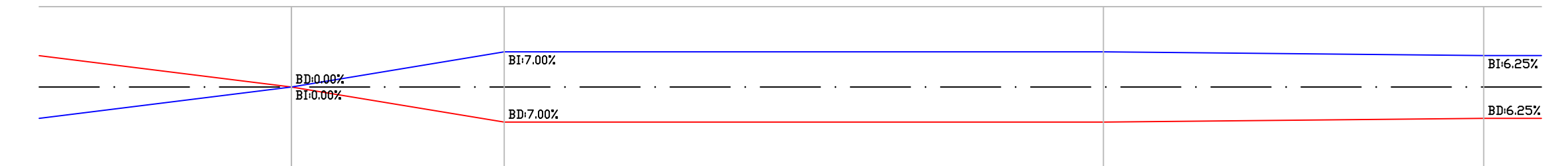
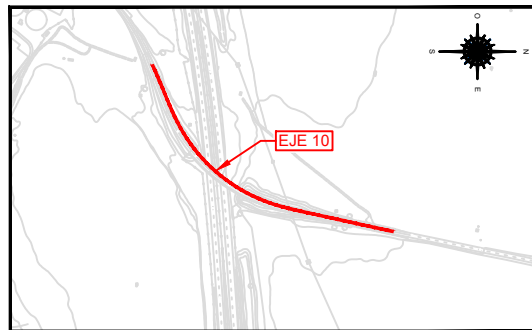


DIAGRAMA  
DE  
PERALTES



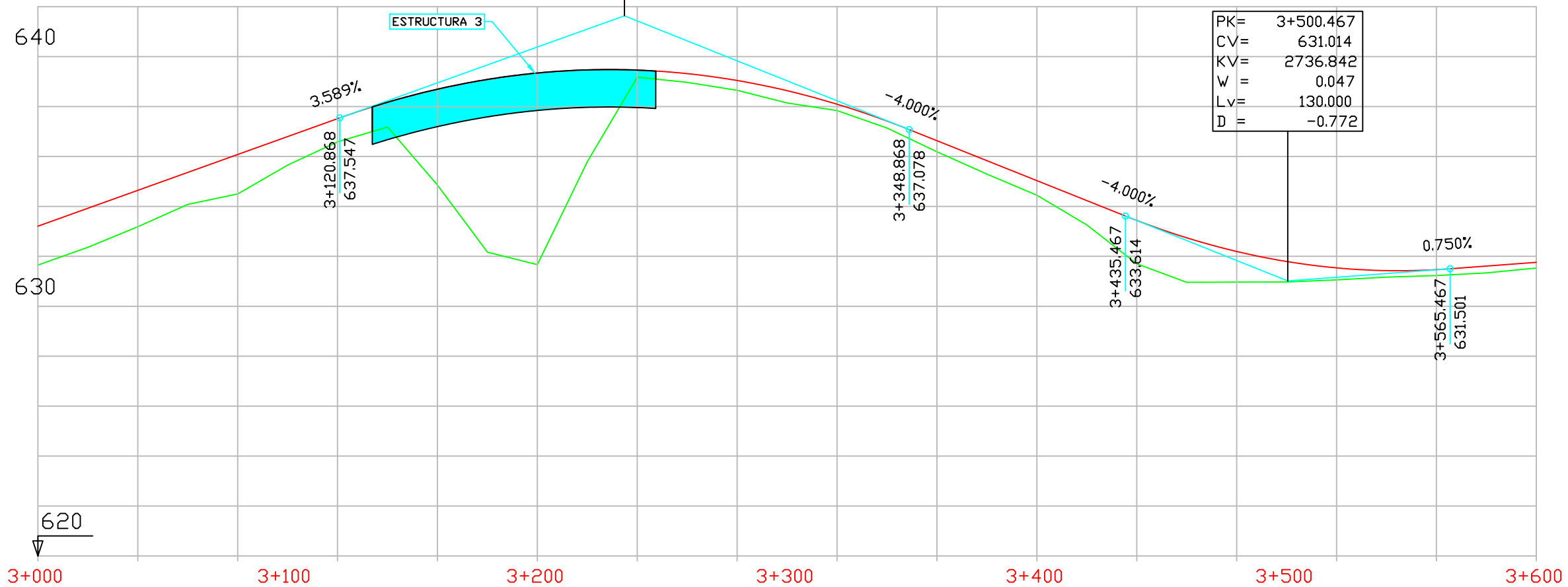




EJE 10  
PK 3+000 - 3+600

PK= 3+234.868  
CV= 641.638  
KV= 3004.378  
W = -0.076  
Lv= 228.000  
D = 2.163

**LEYENDA**  
— RASANTE  
— TERRENO



P.K.		
COTAS	RASANTE	TERRENO

633.209	634.644	636.080	637.515	638.696	639.344	639.460	639.043	638.094	636.633	635.033	633.436	632.195	631.538	631.466	631.760
631.65	633.19	634.50	636.59	634.85	631.67	639.18	638.65	637.84	636.19	634.45	631.70	630.97	631.06	631.23	631.53

DIAGRAMA  
DE  
CURVATURAS

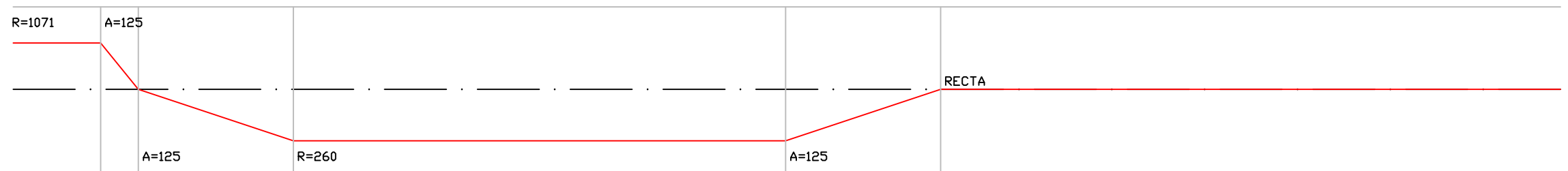
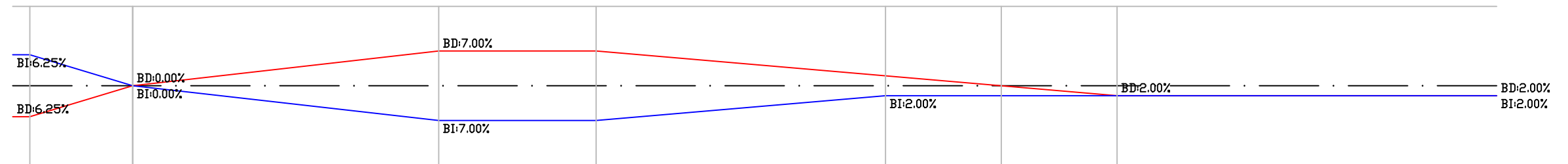
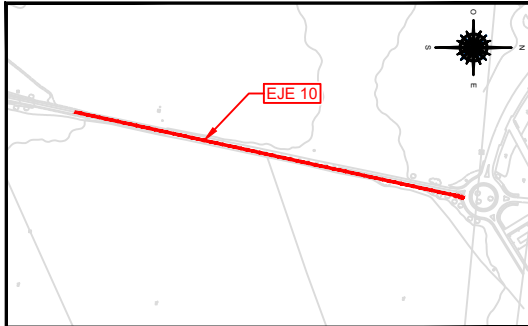


DIAGRAMA  
DE  
PERALTES

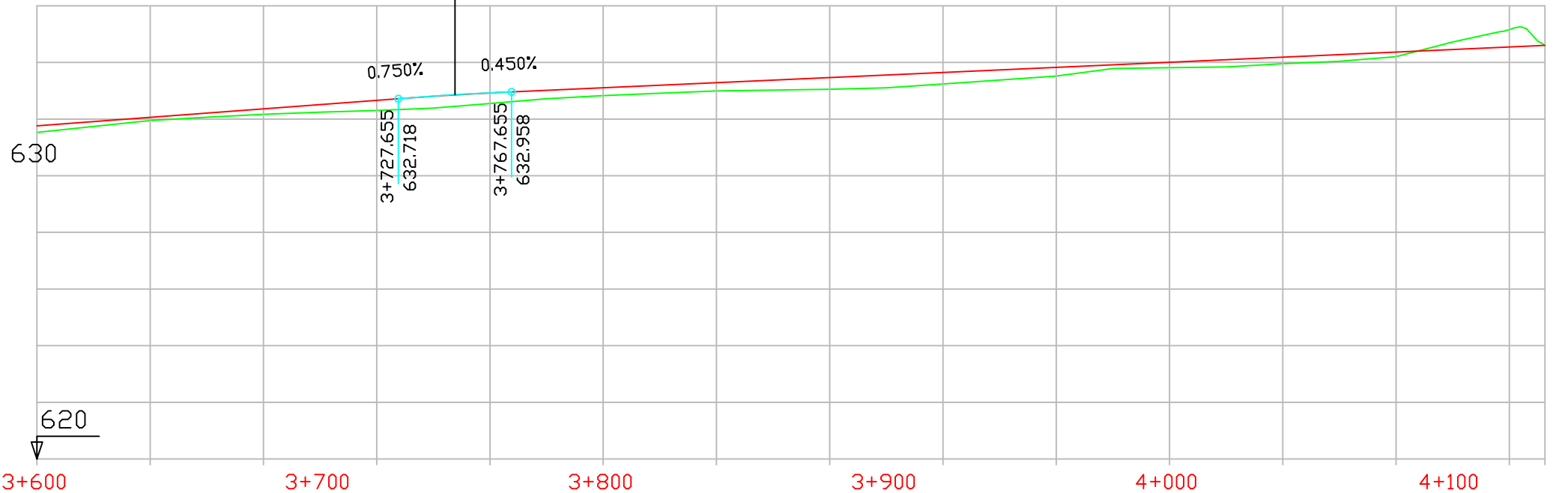




EJE 10  
PK 3+600 - 4+132.586

PK= 3+747.655  
CV= 632.868  
KV= 13333.333  
W = -0.003  
Lv= 40.000  
D = 0.015

LEYENDA  
— RASANTE  
— TERRENO



P.K.		
COTAS	RASANTE	TERRENO

3+600	3+700	3+800	3+900	4+000	4+100
631.760 631.53	632.060 631.95	632.360 632.17	632.660 632.30	632.921 632.55	633.103 632.83
633.283 632.99	633.463 633.05	633.643 633.24	633.823 633.52	634.003 633.81	634.183 633.96
634.363 634.21	634.543 635.19	634.600 635.28			

DIAGRAMA  
DE  
CURVATURAS

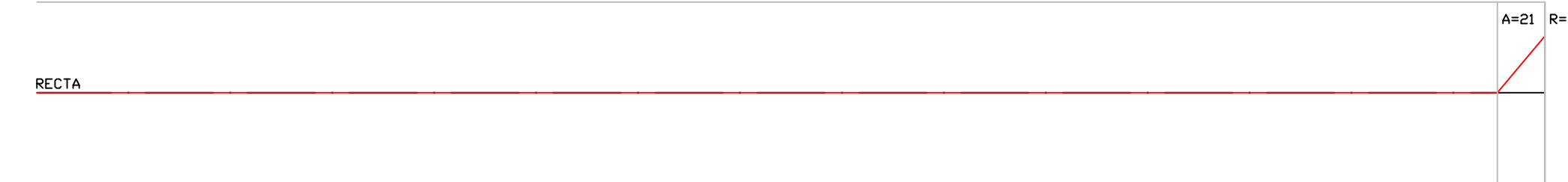
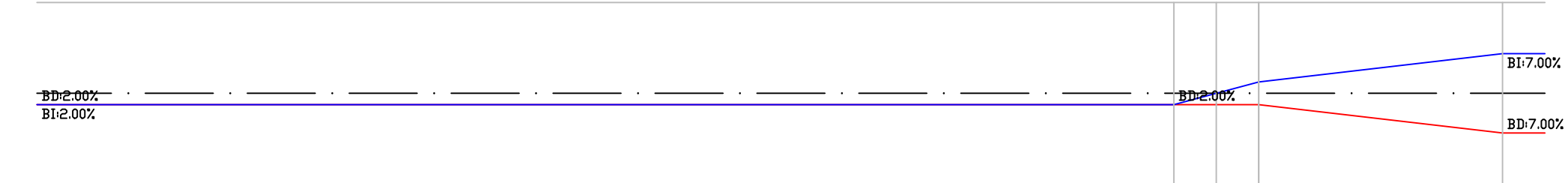
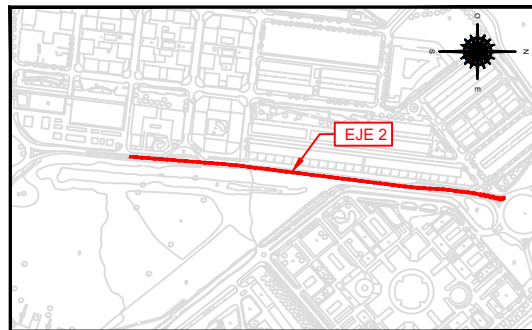


DIAGRAMA  
DE  
PERALTES





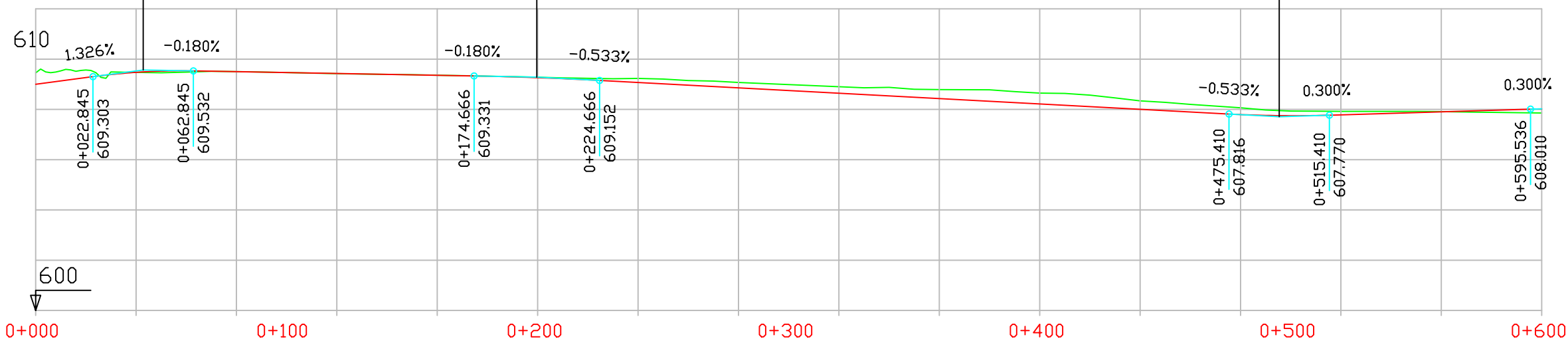
EJE 2  
PK 0+000 - 0+600

**LEYENDA**  
— RASANTE  
— TERRENO

PK= 0+042.845  
CV= 609.568  
KV= 2656.484  
W = -0.015  
Lv= 40.000  
D = 0.075

PK= 0+199.666  
CV= 609.286  
KV= 14176.598  
W = -0.004  
Lv= 50.000  
D = 0.022

PK= 0+495.410  
CV= 607.710  
KV= 4803.241  
W = 0.008  
Lv= 40.000  
D = -0.042



P.K.		
COTAS	RASANTE	TERRENO

0+000		0+100		0+200		0+300		0+400		0+500		0+600			
609.000 609.45	609.475 609.47	609.501 609.50	609.429 609.42	609.357 609.36	609.262 609.28	609.071 609.23	608.858 609.07	608.644 608.90	608.431 608.79	608.218 608.65	608.005 608.34	607.794 608.06	607.784 607.92	607.904 607.91	608.019 607.86

DIAGRAMA  
DE  
CURVATURAS

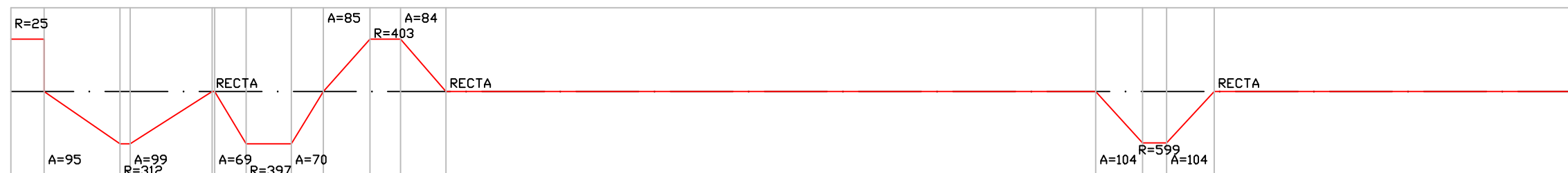
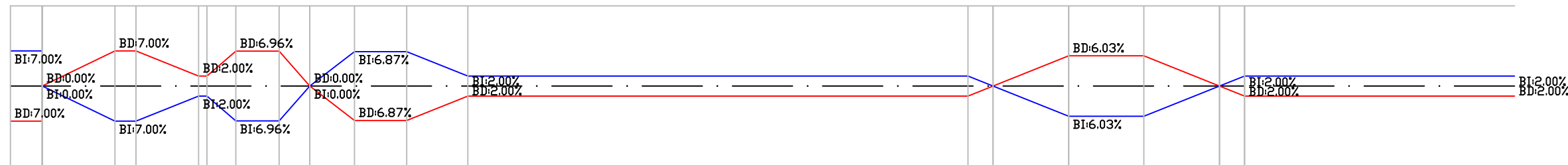
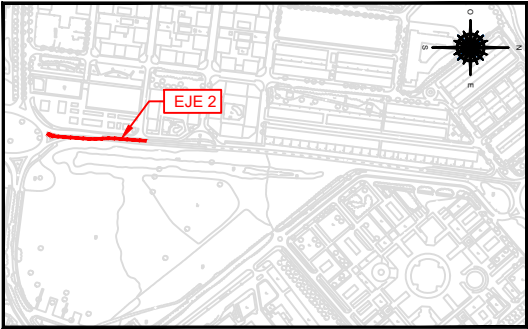


DIAGRAMA  
DE  
PERALTES







EJE 2  
PK 0+600 - 0+757,724

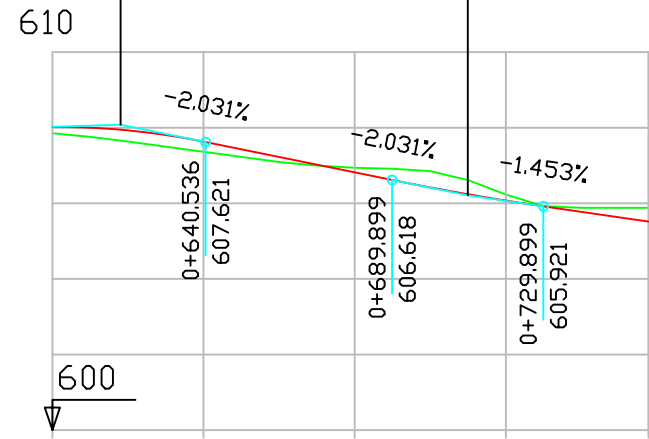
**LEYENDA**

— RASANTE

— TERRENO

PK= 0+618.036  
CV= 608.078  
KV= 1930.428  
W = -0.023  
Lv= 45.000  
D = 0.131

PK= 0+709.899  
CV= 606.212  
KV= 6922.202  
W = 0.006  
Lv= 40.000  
D = -0.029



P.K.		
COTAS	RASANTE	TERRENO

608.019	607.86	607.632	607.36	606.819	606.94	606.072	606.23	605.517	605.88
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DIAGRAMA  
DE  
CURVATURAS

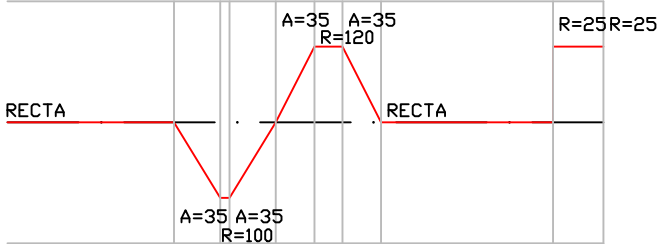
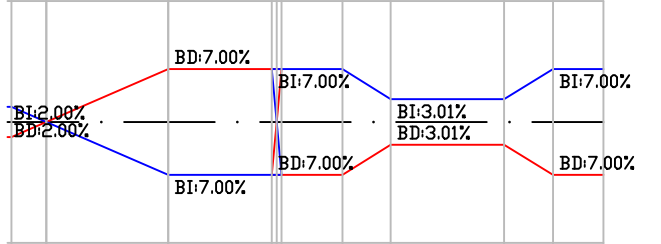
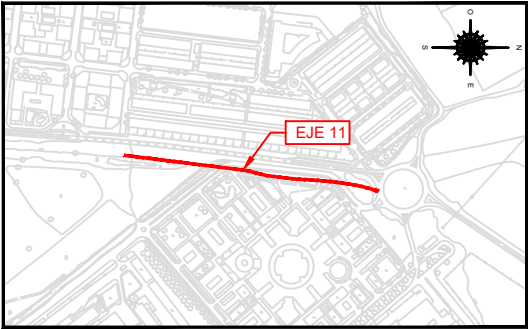


DIAGRAMA  
DE  
PERALTES





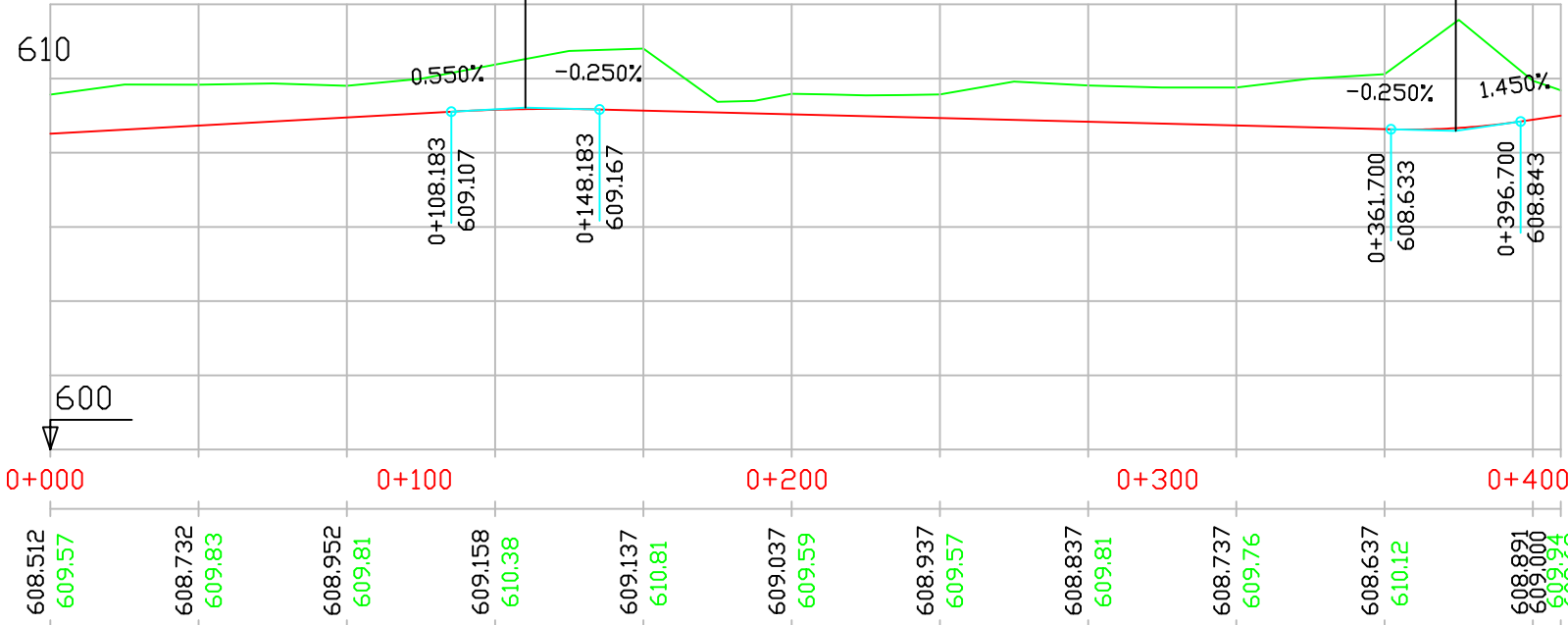
EJE 11  
PK 0+000 - 0+407,513

LEYENDA

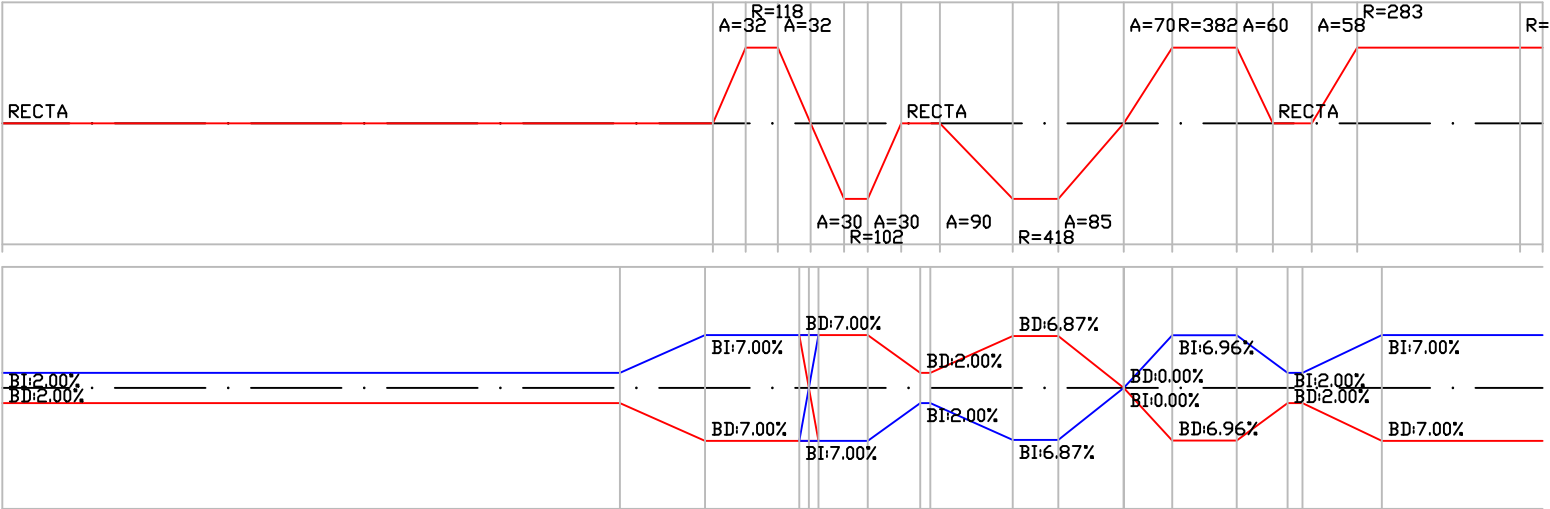
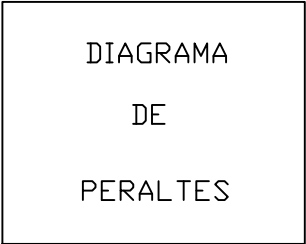
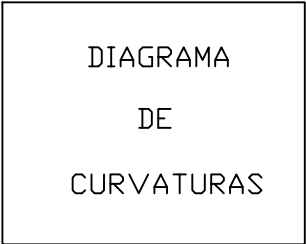
- RASANTE
- TERRENO

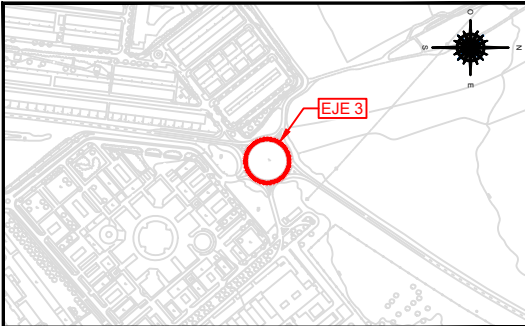
PK= 0+128.183  
CV= 609.217  
KV= 5000.000  
W = -0.008  
Lv= 40.000  
D = 0.040

PK= 0+379.200  
CV= 608.589  
KV= 2058.824  
W = 0.017  
Lv= 35.000  
D = -0.074



P.K.	COTAS RASANTE	COTAS TERRENO
0+000	608.512	609.57
0+100	608.732	609.83
0+200	608.952	609.81
0+300	609.158	610.38
0+400	609.137	610.81



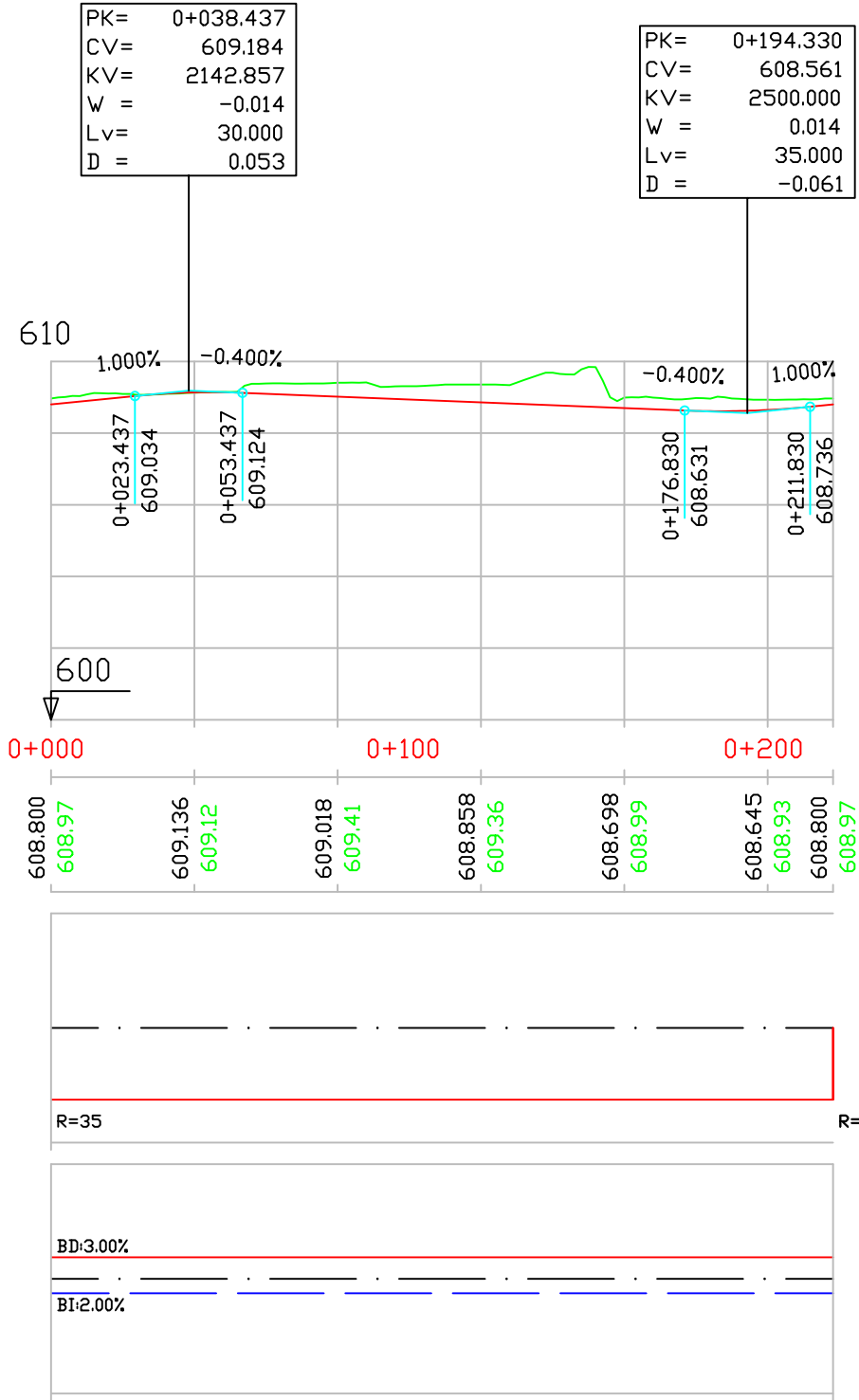


EJE 3  
PK 0+000 - 0+218,249

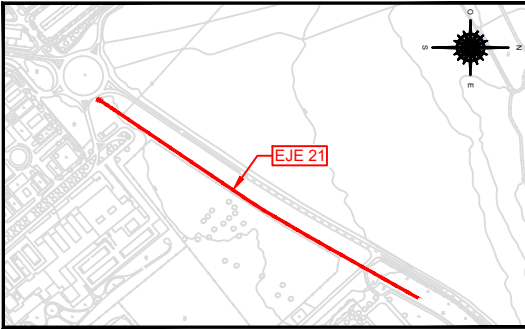
LEYENDA

RASANTE

TERRENO







EJE 21  
PK 0+000 - 0+600

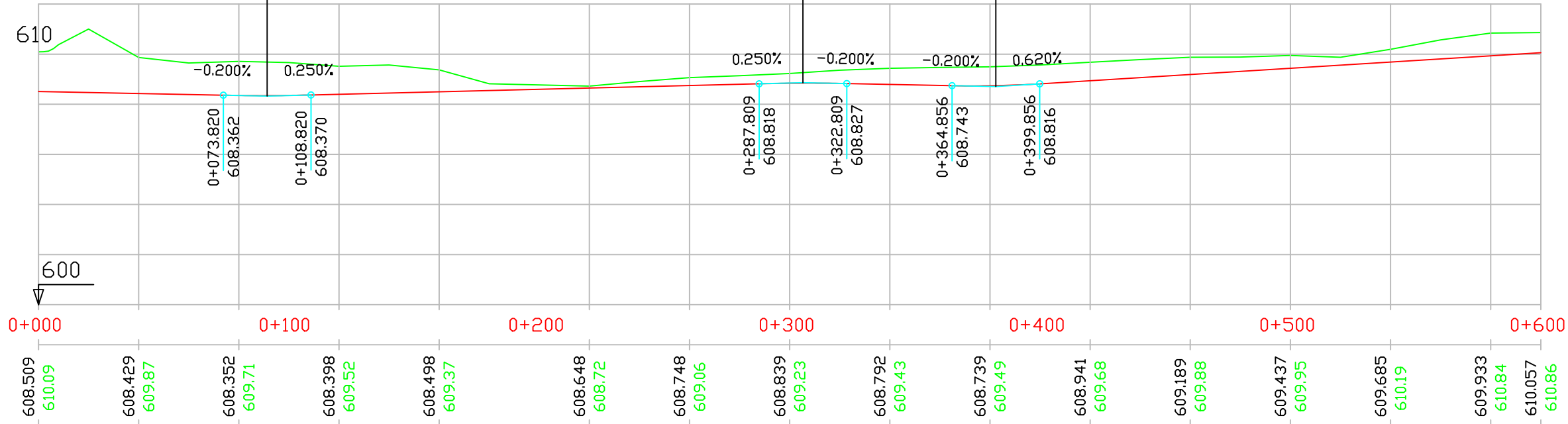
**LEYENDA**

- RASANTE
- TERRENO

PK= 0+091.320  
CV= 608.327  
KV= 7777.778  
W = 0.004  
Lv= 35.000  
D = -0.020

PK= 0+305.309  
CV= 608.862  
KV= 7777.778  
W = -0.004  
Lv= 35.000  
D = 0.020

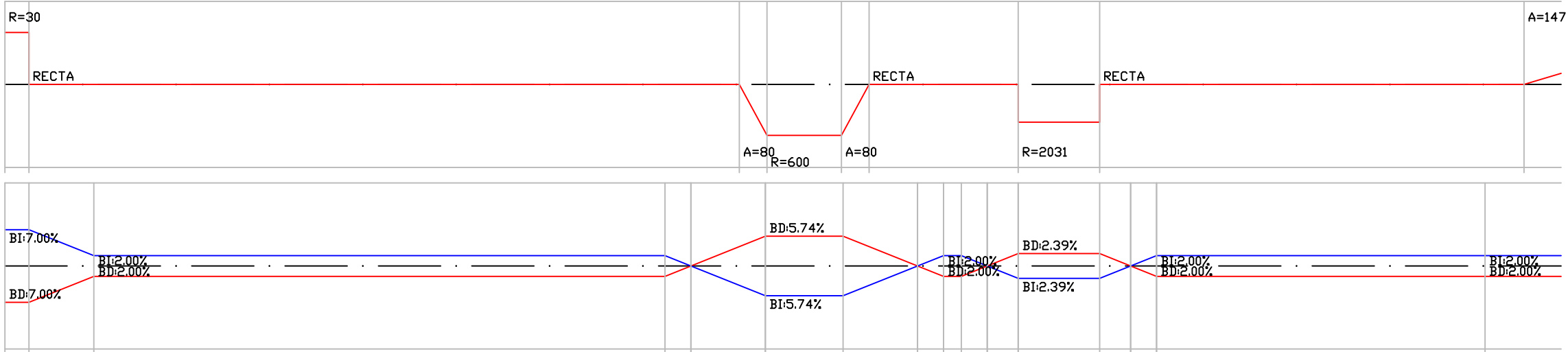
PK= 0+382.356  
CV= 608.708  
KV= 4268.293  
W = 0.008  
Lv= 35.000  
D = -0.036

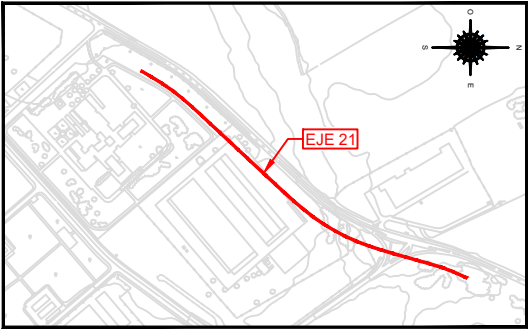


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS		

DIAGRAMA DE PERALTES		

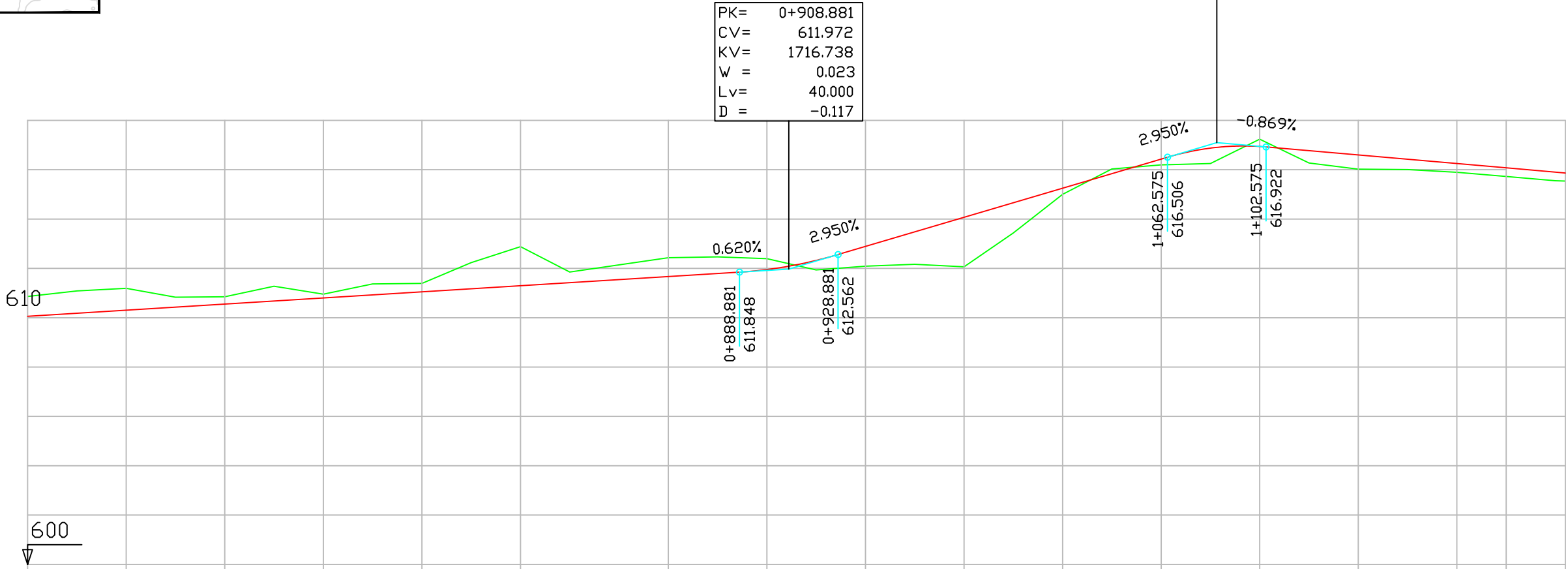




EJE 21  
PK 0+600 - 1+224,020

PK= 1+082.575  
CV= 617.096  
KV= 1047.428  
W = -0.038  
Lv= 40.000  
D = 0.191

LEYENDA  
— RASANTE  
— TERRENO



P.K.	COTAS	
	RASANTE	TERRENO

0+600	0+700	0+800	0+900	1+000	1+100	1+200
610.057	610.305	610.553	611.049	611.669	612.890	614.070
610.86	611.19	610.85	611.39	612.43	612.39	615.00
610.86	611.19	610.85	611.39	612.43	612.39	615.00
616.430	616.941	616.597	616.249	616.076	615.867	615.54
616.20	617.23	616.02	615.90	615.73	615.54	615.54

DIAGRAMA  
DE  
CURVATURAS

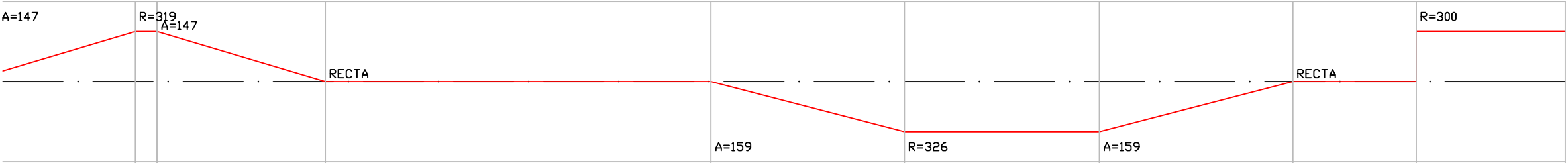
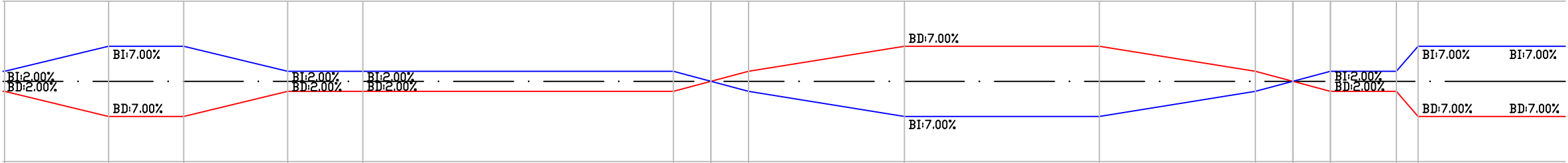
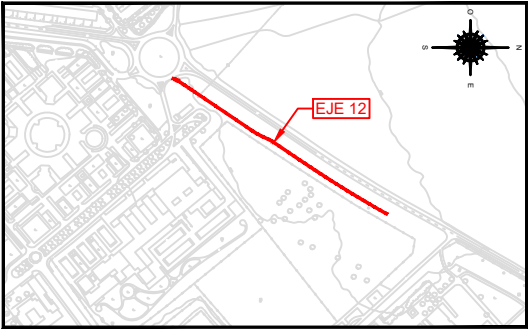


DIAGRAMA  
DE  
PERALTES





EJE 12  
PK 0+000 - 0+403.035

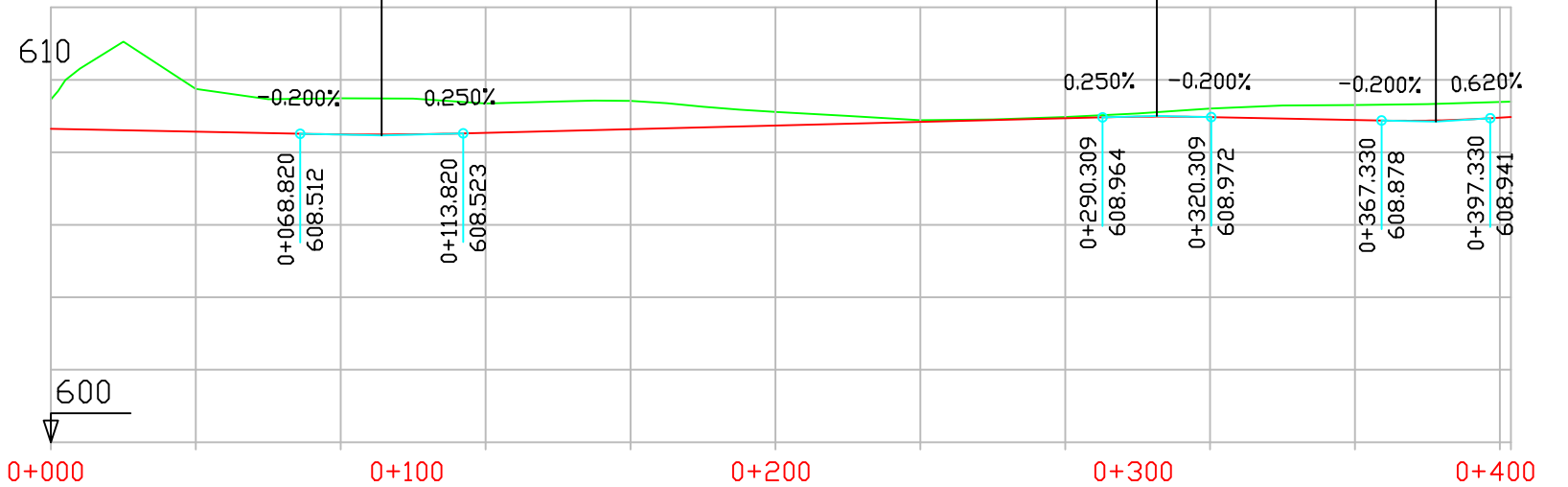
LEYENDA

- RASANTE
- TERRENO

PK=	0+091.320
CV=	608.467
KV=	10000.000
W =	0.004
Lv=	45.000
D =	-0.025

PK=	0+305.309
CV=	609.002
KV=	6666.667
W =	-0.004
Lv=	30.000
D =	0.017

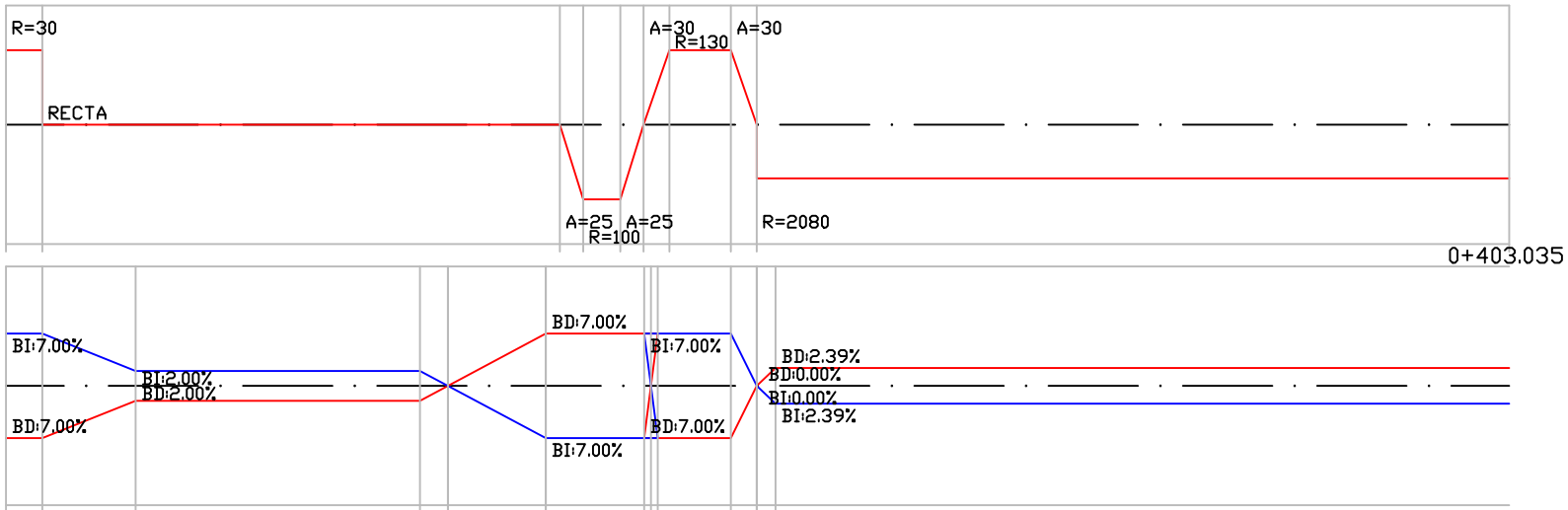
PK=	0+382.330
CV=	608.848
KV=	3658.537
W =	0.008
Lv=	30.000
D =	-0.031



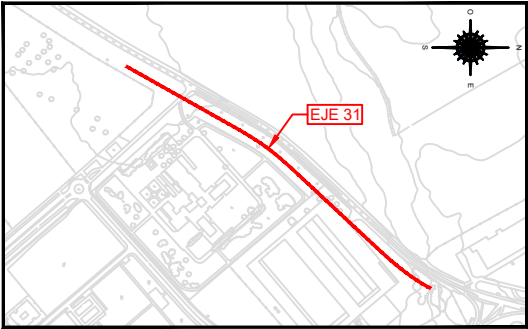
P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS

DIAGRAMA DE PERALTES



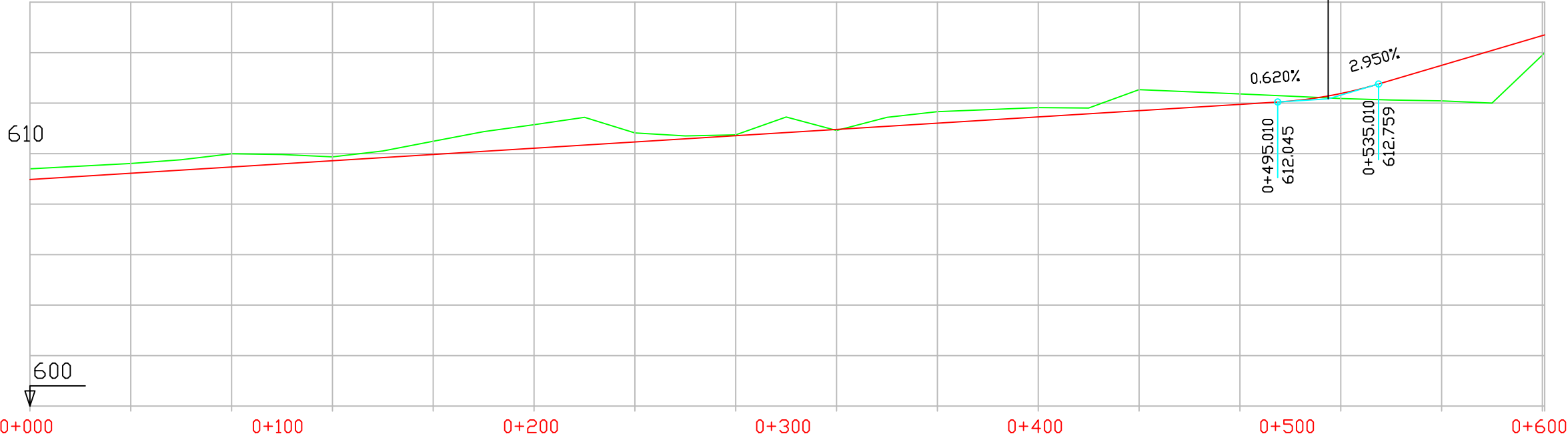




EJE 31  
PK 0+000 - 0+600.927

PK= 0+515.010  
CV= 612.169  
KV= 1716.738  
W = 0.023  
Lv= 40.000  
D = -0.117

LEYENDA  
RASANTE  
TERRENO



P.K.		
CDTAS	RASANTE	TERRENO
608.976	609.40	609.40
609.224	609.61	609.61
609.472	610.00	610.00
609.720	609.87	609.87
609.968	610.49	610.49
610.216	611.15	611.15
610.464	610.82	610.82
610.712	610.74	610.74
610.960	610.92	610.92
611.208	611.66	611.66
611.456	611.82	611.82
611.704	612.53	612.53
611.952	612.36	612.36
612.200	612.19	612.19
612.448	612.09	612.09
612.696	613.90	613.90
612.944	614.76	614.76
613.192	614.01	614.01

DIAGRAMA  
DE  
CURVATURAS

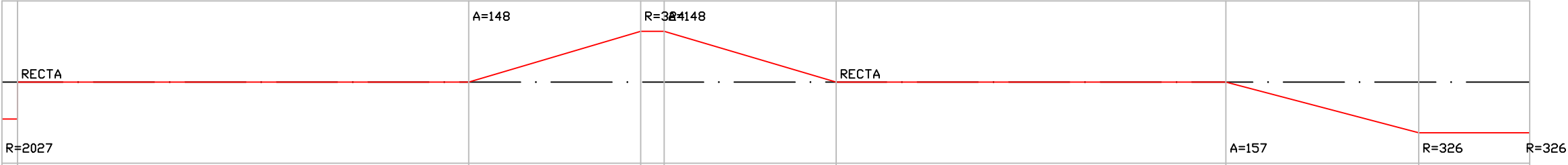
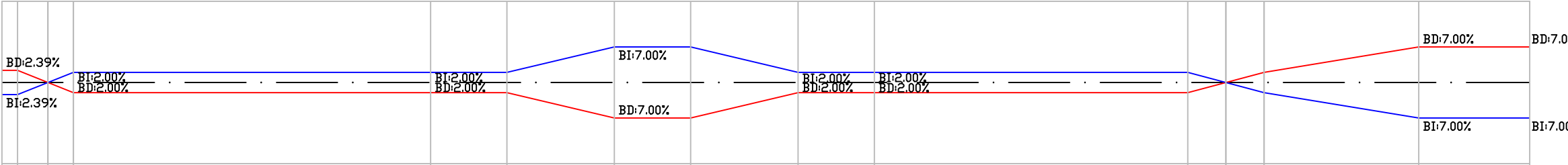
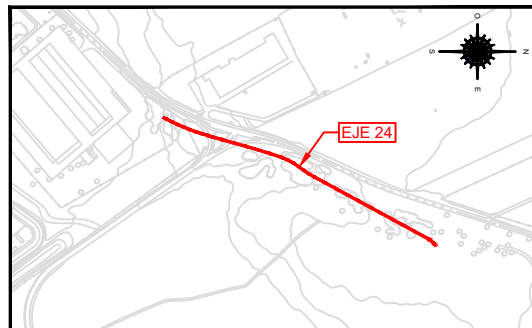


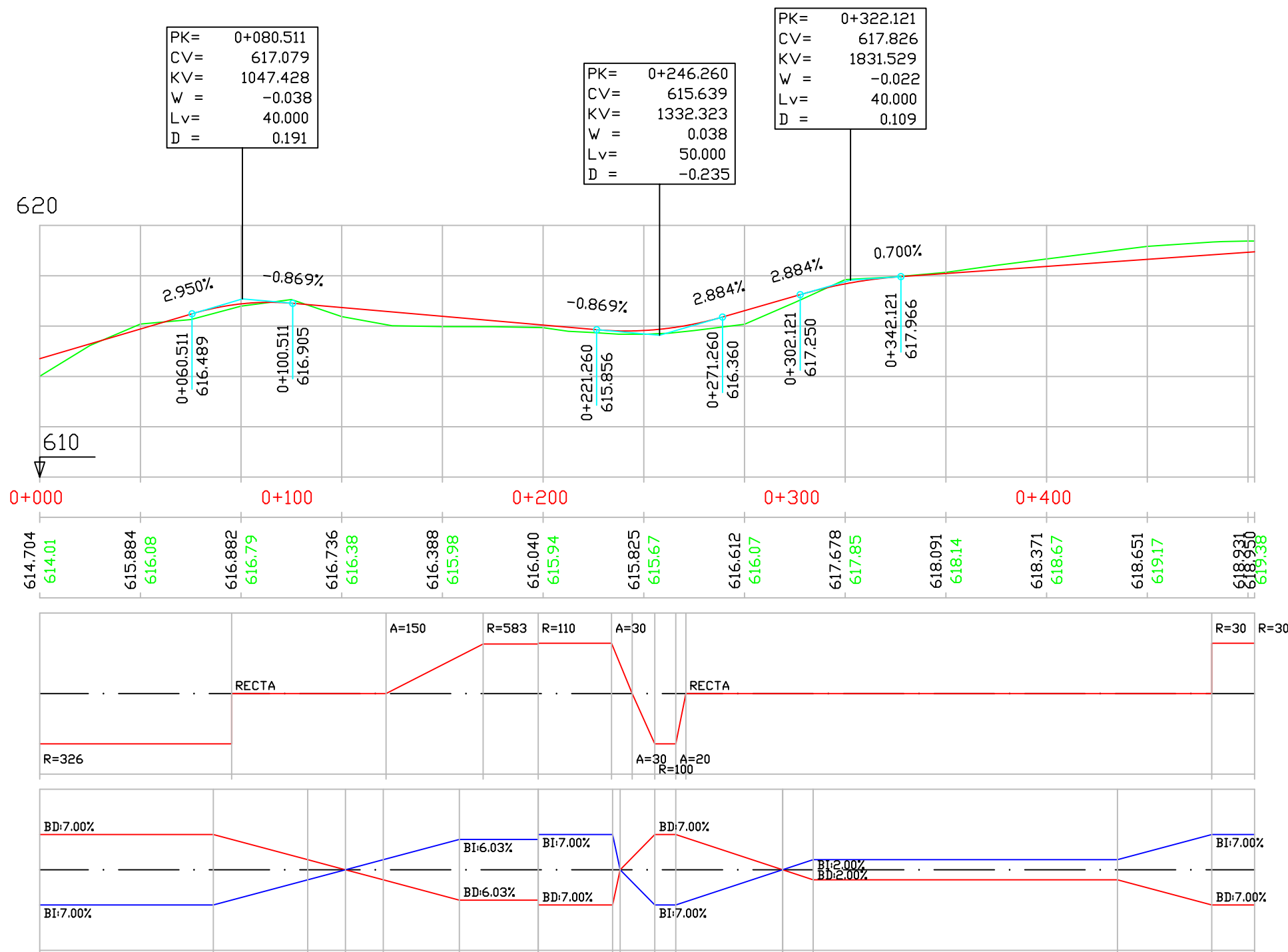
DIAGRAMA  
DE  
PERALTES





EJE 24  
PK 0+000 - 0+482.646

**LEYENDA**  
— RASANTE  
— TERRENO



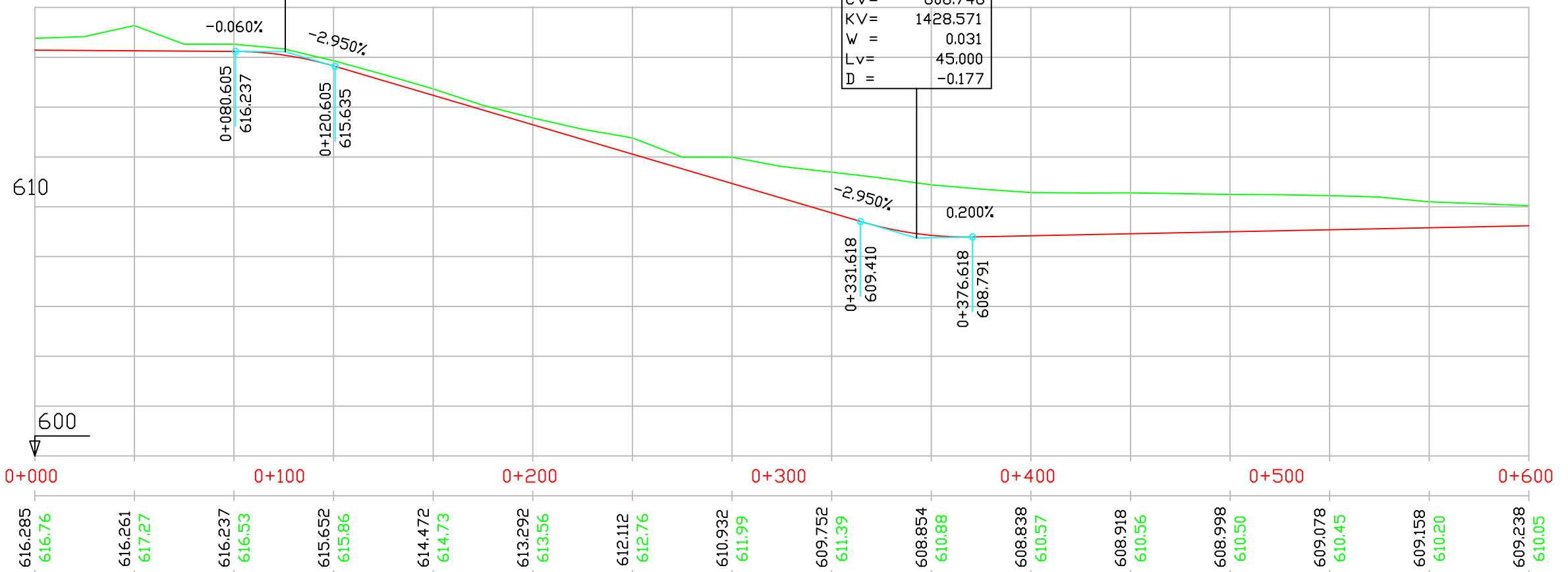


EJE 32  
PK 0+000 - 0+600

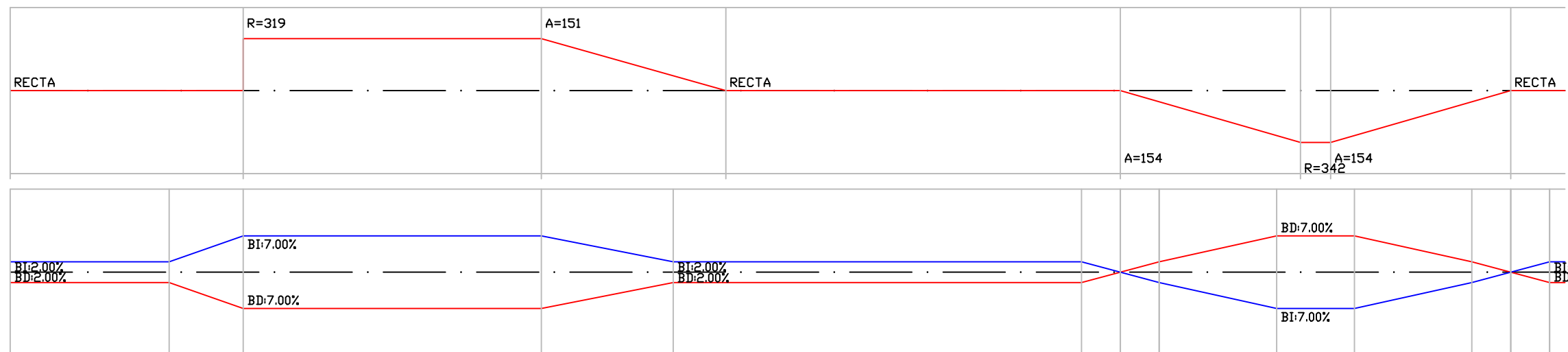
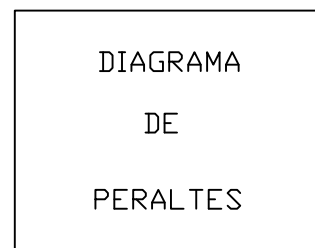
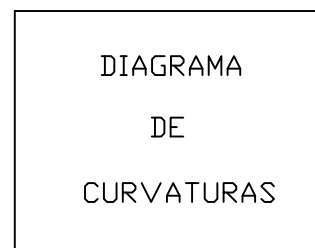
PK= 0+100.605  
CV= 616.225  
KV= 1384.083  
W = -0.029  
Lv= 40.000  
D = 0.145

PK= 0+354.118  
CV= 608.746  
KV= 1428.571  
W = 0.031  
Lv= 45.000  
D = -0.177

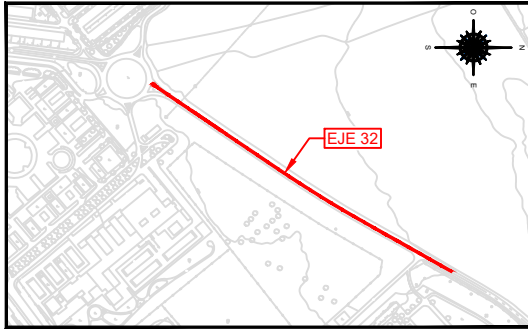
**LEYENDA**  
— RASANTE  
— TERRENO



P.K.	COTAS RASANTE	COTAS TERRENO
0+000	616.285	616.76
0+100	616.237	616.53
0+200	615.652	615.86
0+300	612.112	612.76
0+400	608.838	610.57
0+500	609.078	610.45
0+600	609.238	610.05







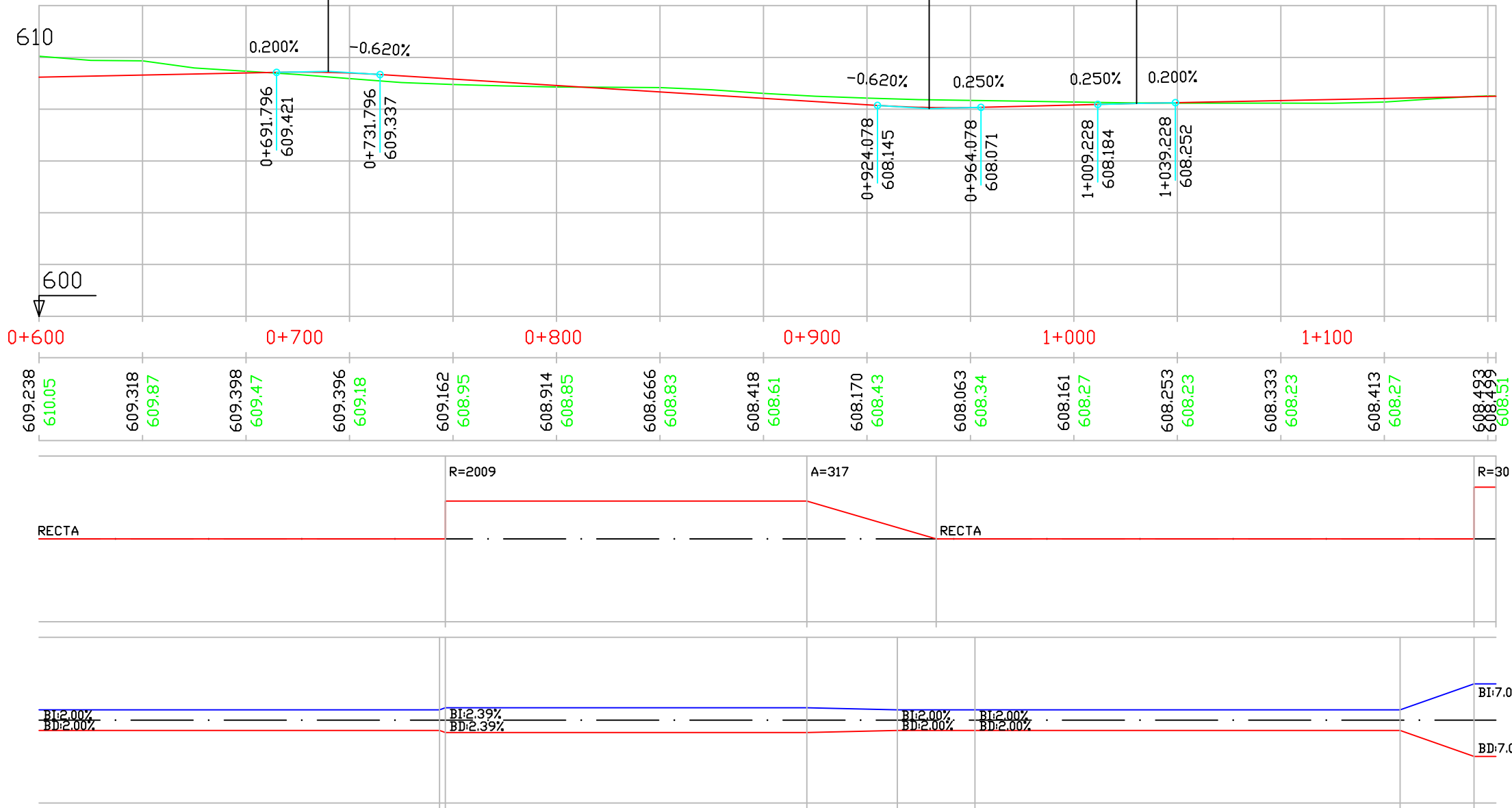
EJE 32  
PK 0+600 - 1+163.108

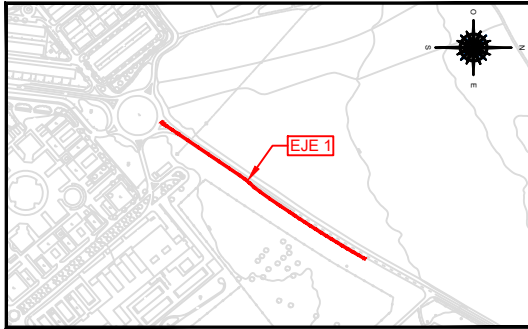
**LEYENDA**  
— RASANTE  
— TERRENO

PK= 0+711.796  
CV= 609.461  
KV= 4878.049  
W = -0.008  
Lv= 40.000  
D = 0.041

PK= 0+944.078  
CV= 608.021  
KV= 4597.701  
W = 0.009  
Lv= 40.000  
D = -0.043

PK= 1+024.228  
CV= 608.222  
KV= 60000.000  
W = -0.000  
Lv= 30.000  
D = 0.002





EJE 1  
PK 0+000 - 0+391.787

LEYENDA

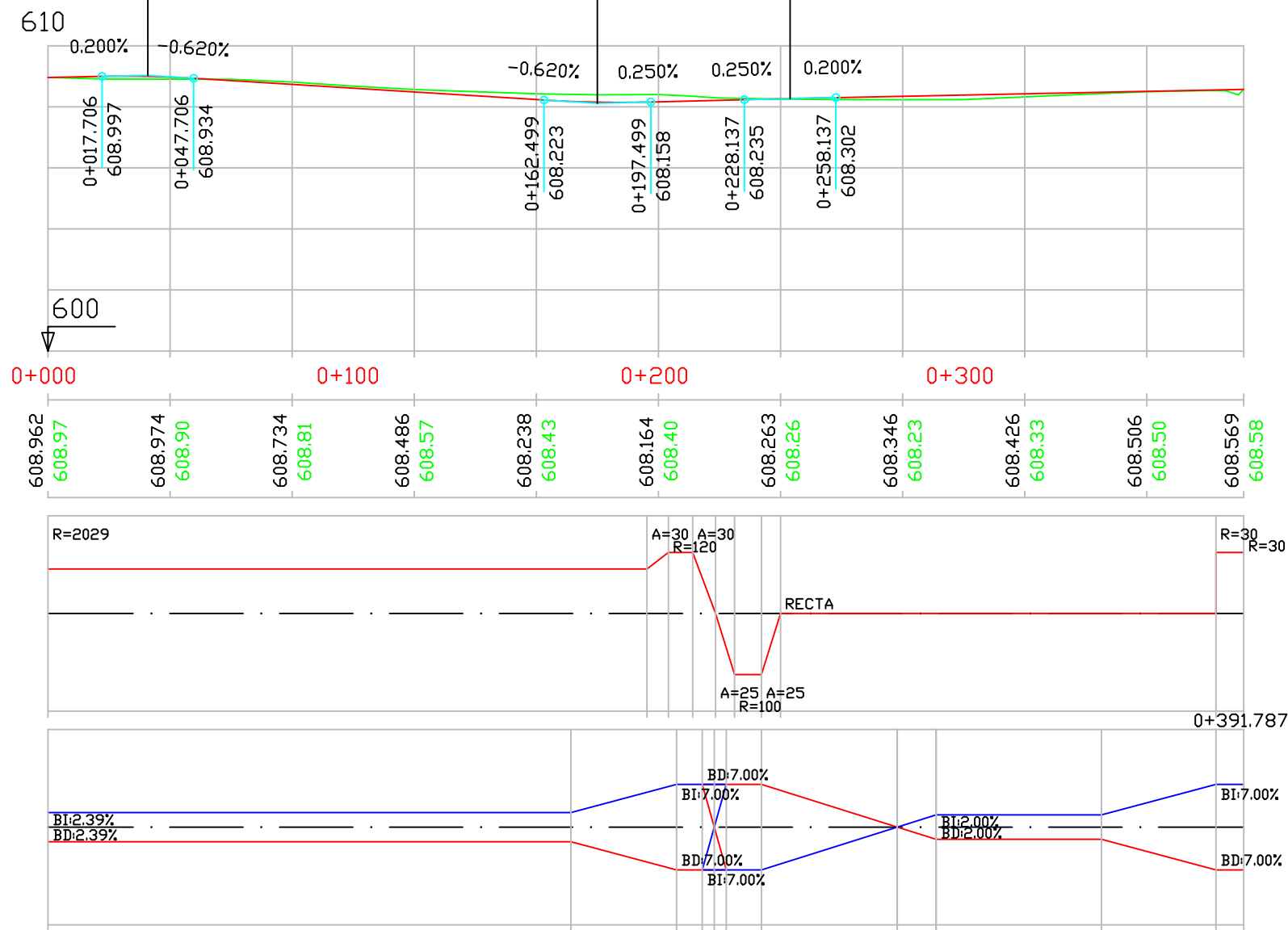
RASANTE

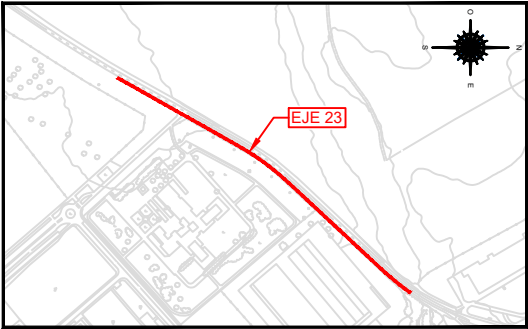
TERRENO

PK= 0+032.706  
CV= 609.027  
KV= 3658.537  
W = -0.008  
Lv= 30.000  
D = 0.031

PK= 0+179.999  
CV= 608.114  
KV= 4022.989  
W = 0.009  
Lv= 35.000  
D = -0.038

PK= 0+243.137  
CV= 608.272  
KV= 60000.000  
W = -0.000  
Lv= 30.000  
D = 0.002





EJE 23  
PK 0+000 - 0+579.879

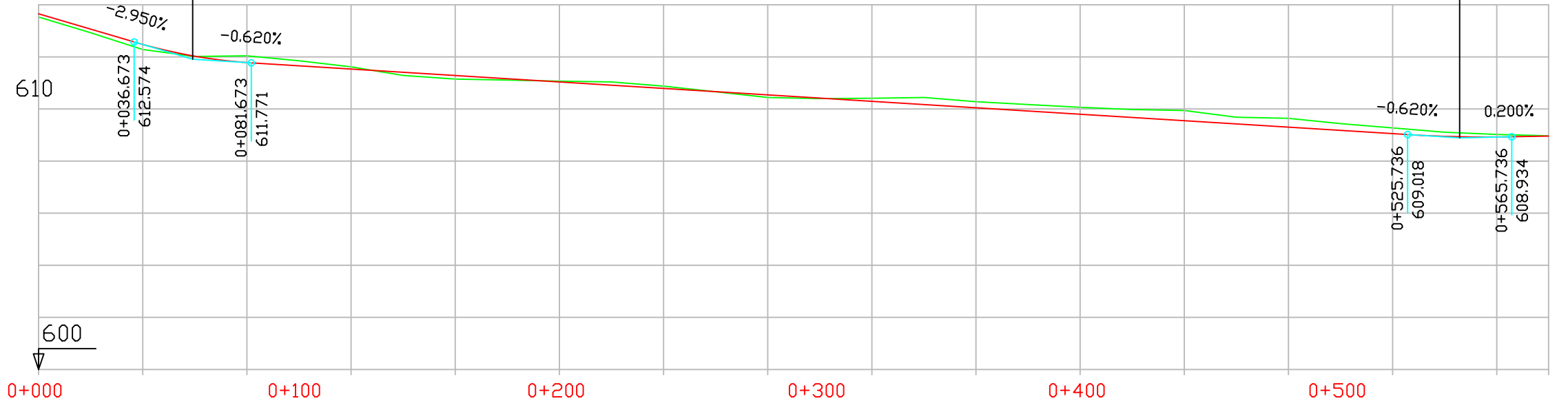
LEYENDA

RASANTE

TERRENO

PK= 0+059.173  
CV= 611.910  
KV= 1931.330  
W = 0.023  
Lv= 45.000  
D = -0.131

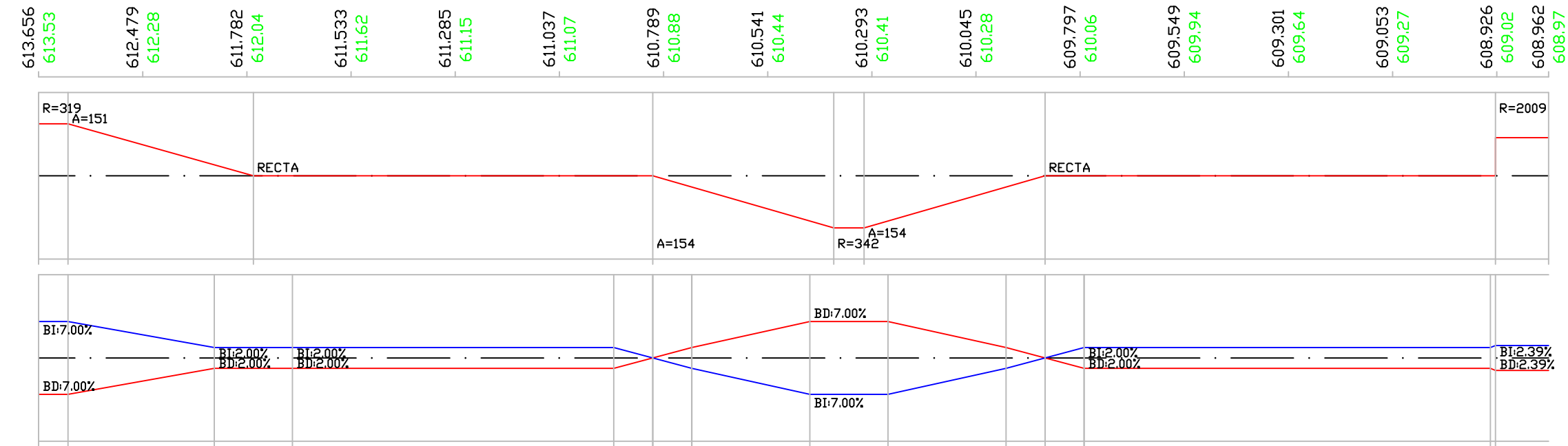
PK= 0+545.736  
CV= 608.894  
KV= 4878.049  
W = 0.008  
Lv= 40.000  
D = -0.041



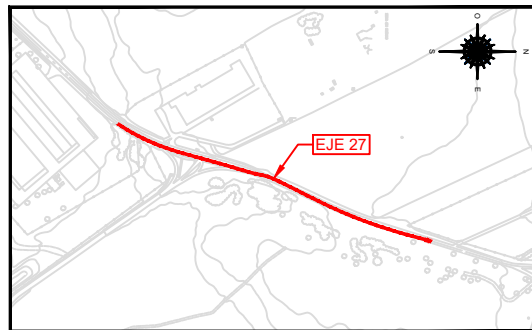
P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS		

DIAGRAMA DE PERALTES		







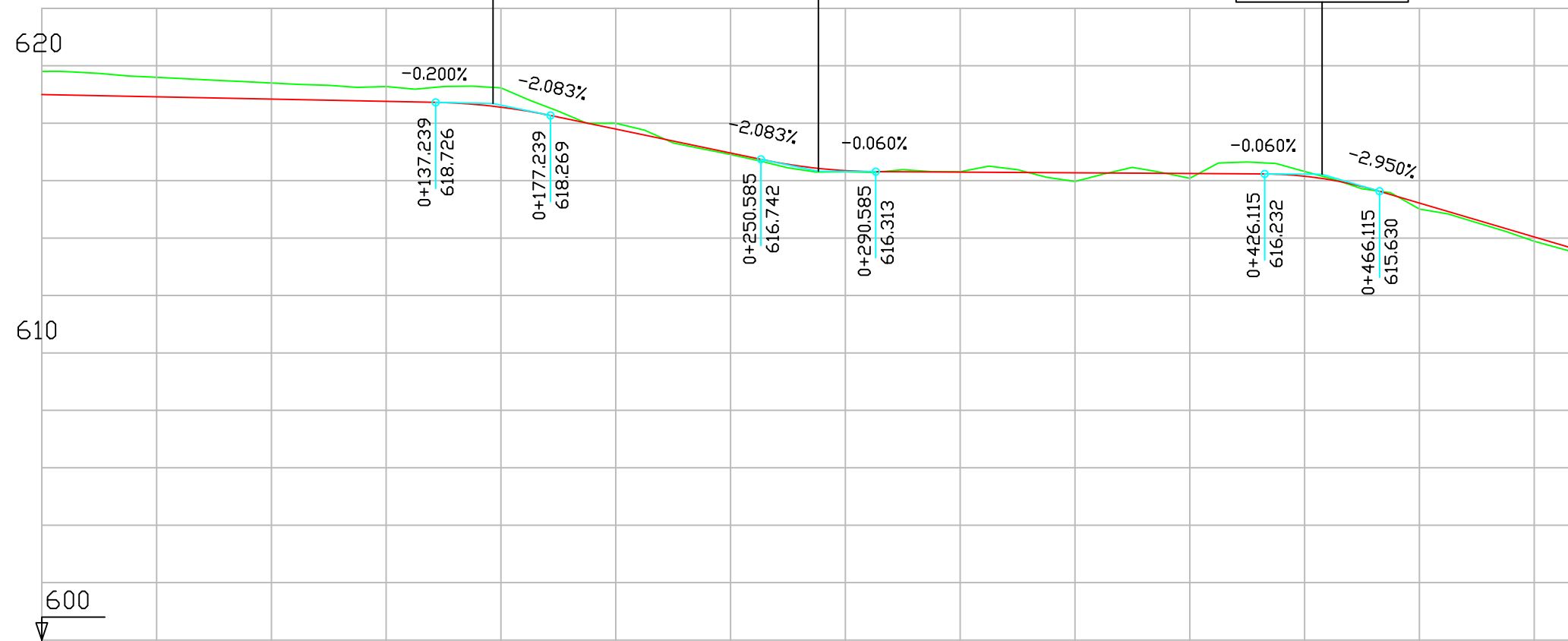
EJE 27  
PK 0+000 - 0+533,021

PK= 0+157.239  
CV= 618.686  
KV= 2124.790  
W = -0.019  
Lv= 40.000  
D = 0.094

PK= 0+270.585  
CV= 616.325  
KV= 1977.712  
W = 0.020  
Lv= 40.000  
D = -0.101

PK= 0+446.115  
CV= 616.220  
KV= 1384.083  
W = -0.029  
Lv= 40.000  
D = 0.145

LEYENDA  
RASANTE  
TERRENO



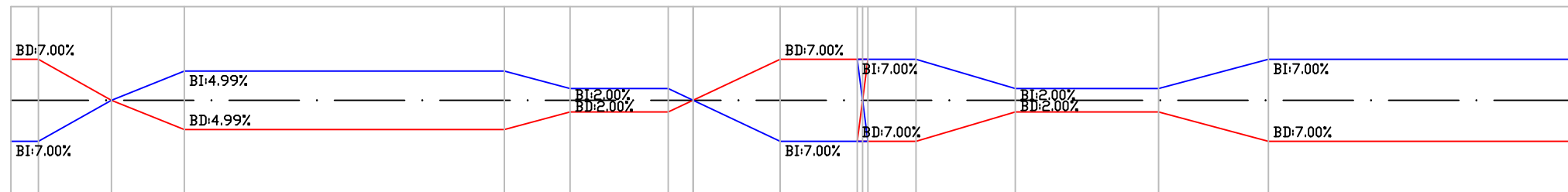
P.K.	
COTAS	
RASANTE	TERRENO

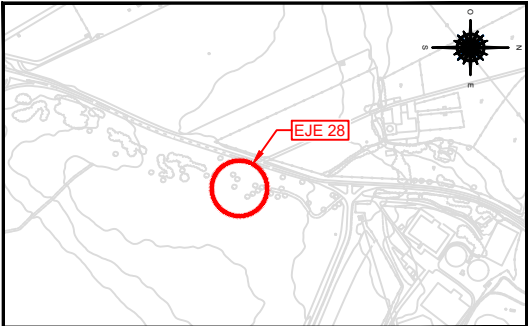
0+000	0+100	0+200	0+300	0+400	0+500
619.000	618.920	618.840	618.760	618.680	618.600
619.80	619.60	619.40	619.28	619.15	619.00
618.558	618.470	618.380	618.290	618.200	618.110
619.23	619.03	618.83	618.63	618.43	618.23
617.795	617.705	617.615	617.525	617.435	617.345
618.00	617.80	617.60	617.40	617.20	617.00
616.962	616.872	616.782	616.692	616.602	616.512
616.91	616.71	616.51	616.31	616.11	615.91
616.348	616.258	616.168	616.078	615.988	615.898
616.31	616.11	615.91	615.71	615.51	615.31
616.295	616.205	616.115	616.025	615.935	615.845
616.31	616.11	615.91	615.71	615.51	615.31
616.271	616.181	616.091	616.001	615.911	615.821
615.97	615.77	615.57	615.37	615.17	614.97
616.247	616.157	616.067	615.977	615.887	615.797
616.08	615.88	615.68	615.48	615.28	615.08
616.154	616.064	615.974	615.884	615.794	615.704
616.32	616.12	615.92	615.72	615.52	615.32
615.220	615.130	615.040	614.950	614.860	614.770
615.01	614.81	614.61	614.41	614.21	614.01
614.040	613.950	613.860	613.770	613.680	613.590
613.89	613.69	613.49	613.29	613.09	612.89
613.656	613.456	613.256	613.056	612.856	612.656
613.53	613.33	613.13	612.93	612.73	612.53

DIAGRAMA  
DE  
CURVATURAS



DIAGRAMA  
DE  
PERALTES





LEYENDA

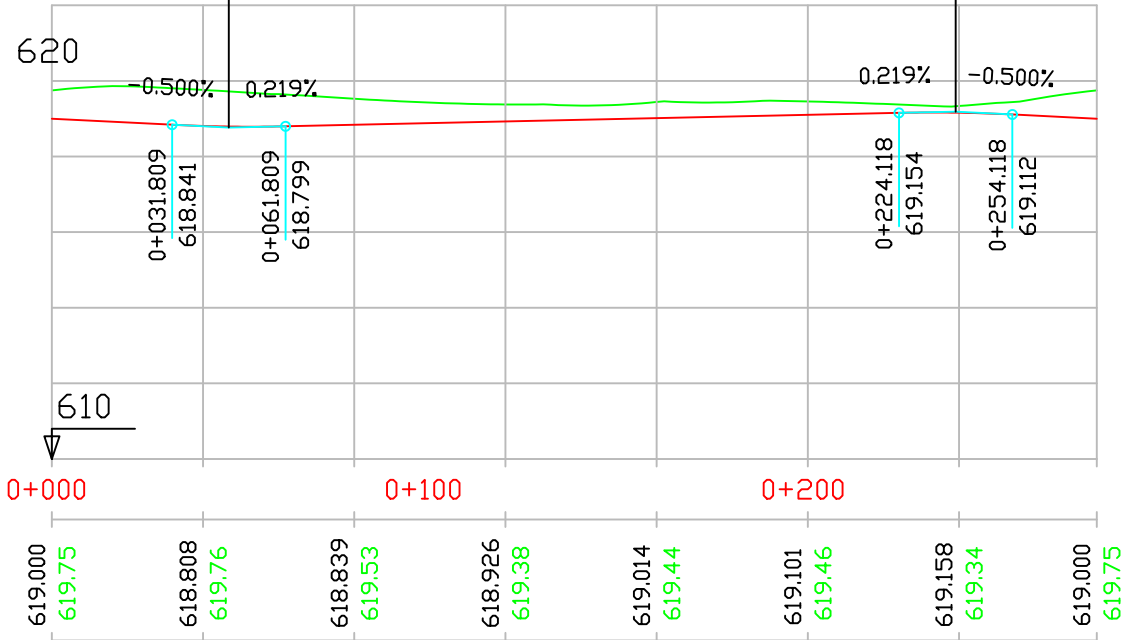
RASANTE

TERRENO

EJE 28  
PK 0+000 - 0+276,460

PK= 0+046.809  
CV= 618.766  
KV= 4173.660  
W = 0.007  
Lv= 30.000  
D = -0.027

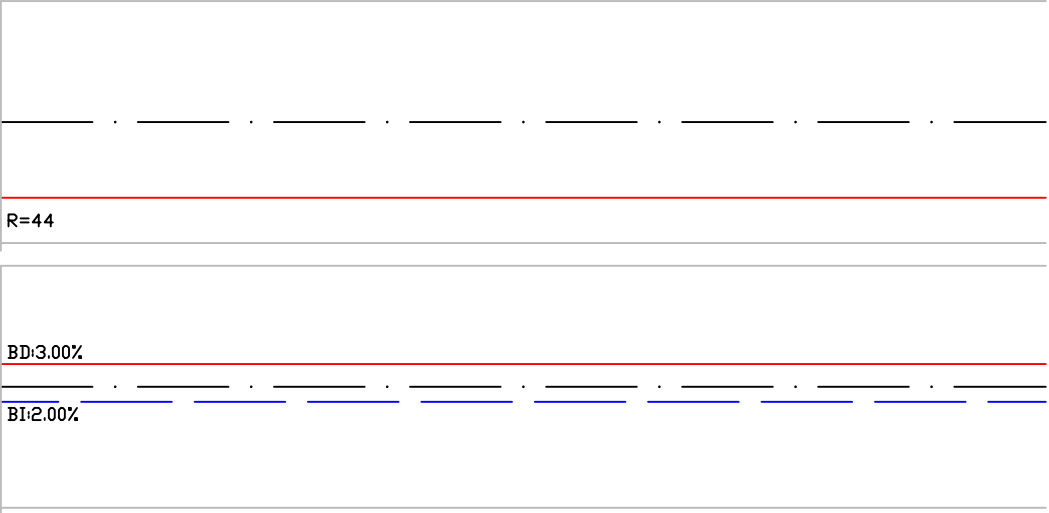
PK= 0+239.118  
CV= 619.187  
KV= 4173.660  
W = -0.007  
Lv= 30.000  
D = 0.027

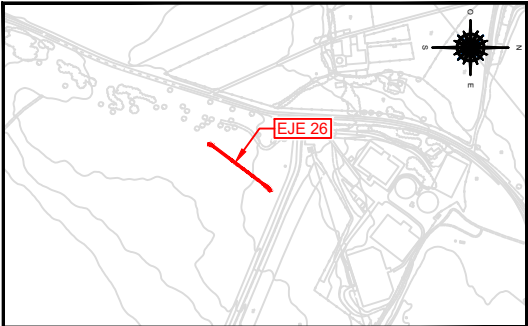


P.K.		
COTAS	RASANTE	TERRENO
0+000	619.000	619.75
0+046.809	618.808	619.76
0+100	618.839	619.53
0+150	618.926	619.38
0+200	619.014	619.44
0+239.118	619.101	619.46
0+276.460	619.158	619.34
0+276.460	619.000	619.75

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES





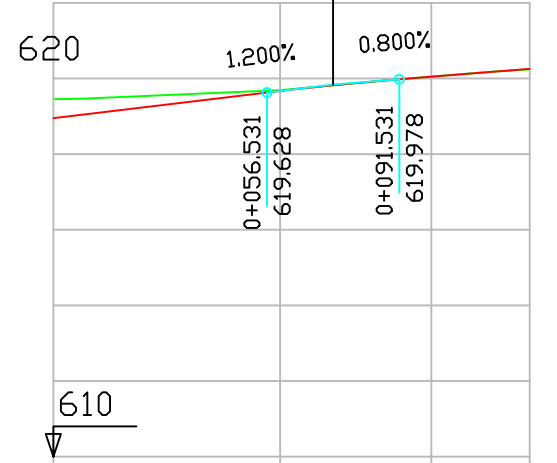
EJE 26  
PK 0+000 - 0+126.060

LEYENDA

RASANTE

TERRENO

PK= 0+074.031  
CV= 619.838  
KV= 8750.000  
W = -0.004  
Lv= 35.000  
D = 0.018



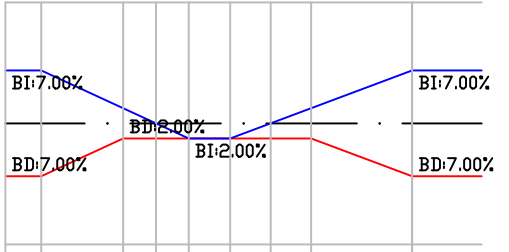
P.K.		
COTAS	RASANTE	TERRENO

0+000		0+100	
618.950	619.46	619.669	619.69
		620.046	620.05
		620.255	620.24

DIAGRAMA  
DE  
CURVATURAS



DIAGRAMA  
DE  
PERALTES





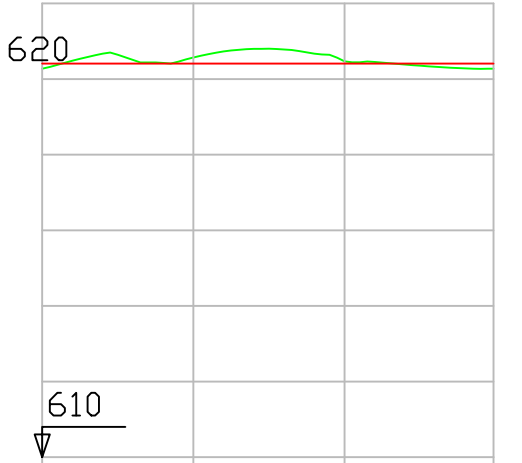


EJE 29  
PK 0+000 - 0+119.412

LEYENDA

RASANTE

TERRENO



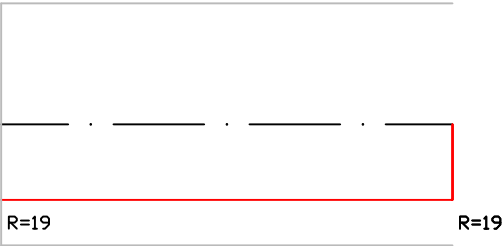
P.K.		
COTAS	RASANTE	TERRENO

620.410	620.410	620.410	620.410
620.28	620.57	620.47	620.28

DIAGRAMA

DE

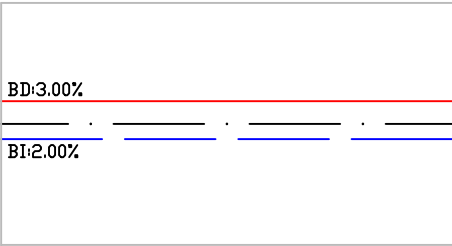
CURVATURAS

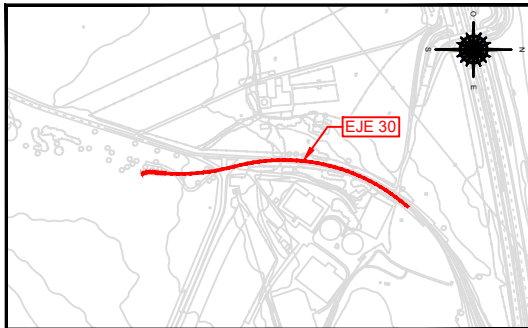


DIAGRAMA

DE

PERALTES

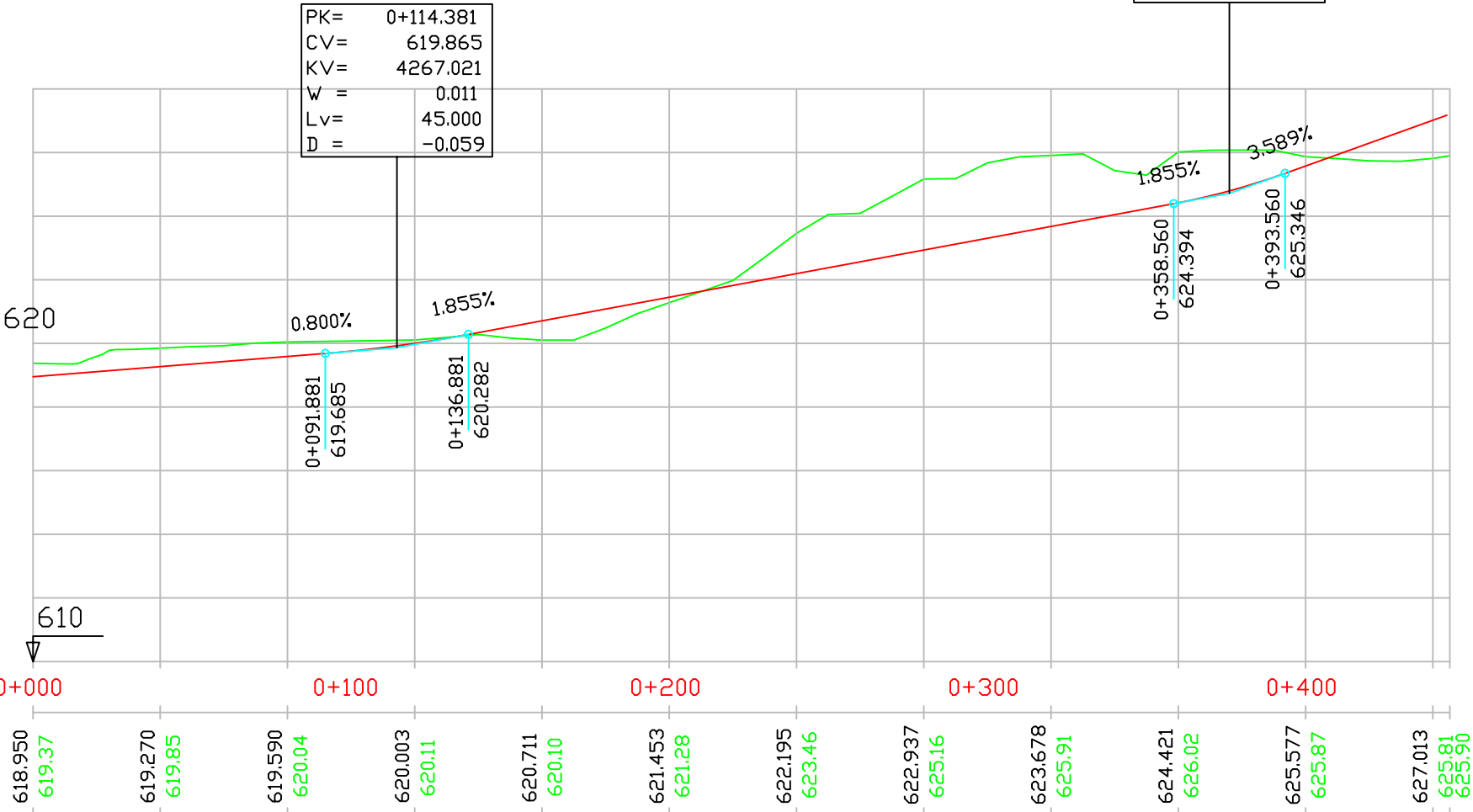




EJE 30  
PK 0+000 - 0+444.433

PK= 0+376.060  
CV= 624.718  
KV= 2018.077  
W = 0.017  
Lv= 35.000  
D = -0.076

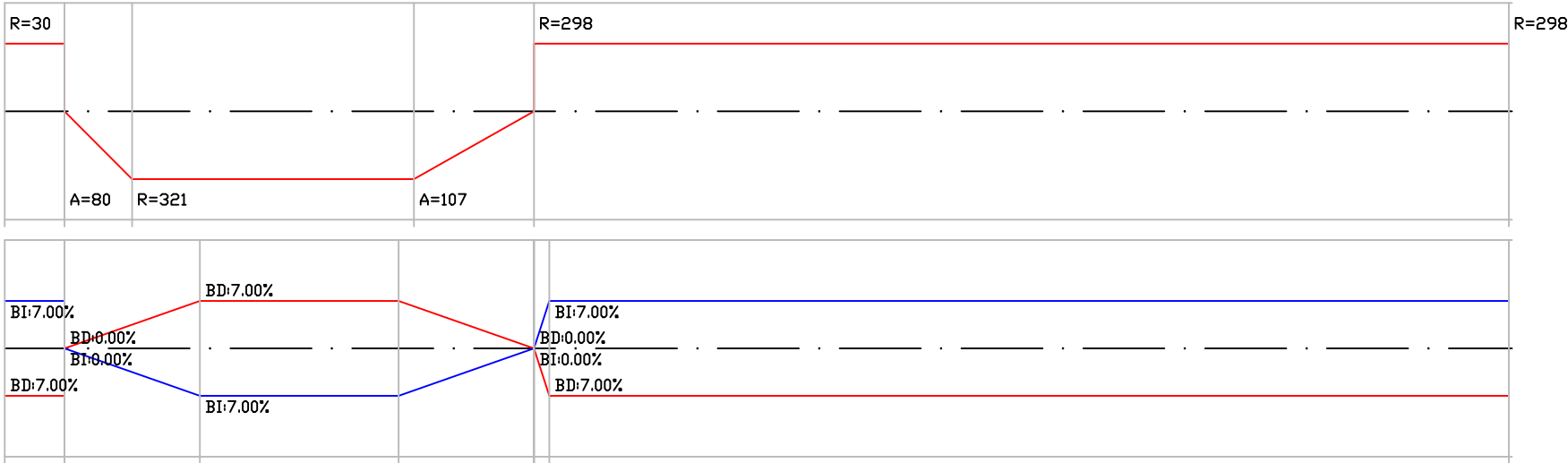
LEYENDA  
— RASANTE  
— TERRENO

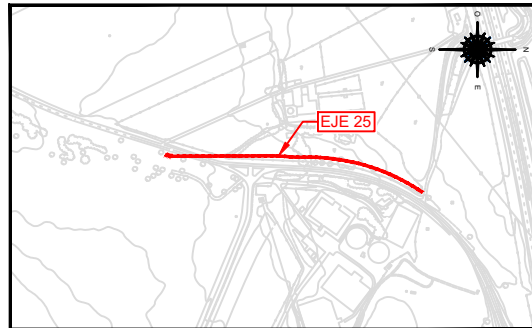


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES



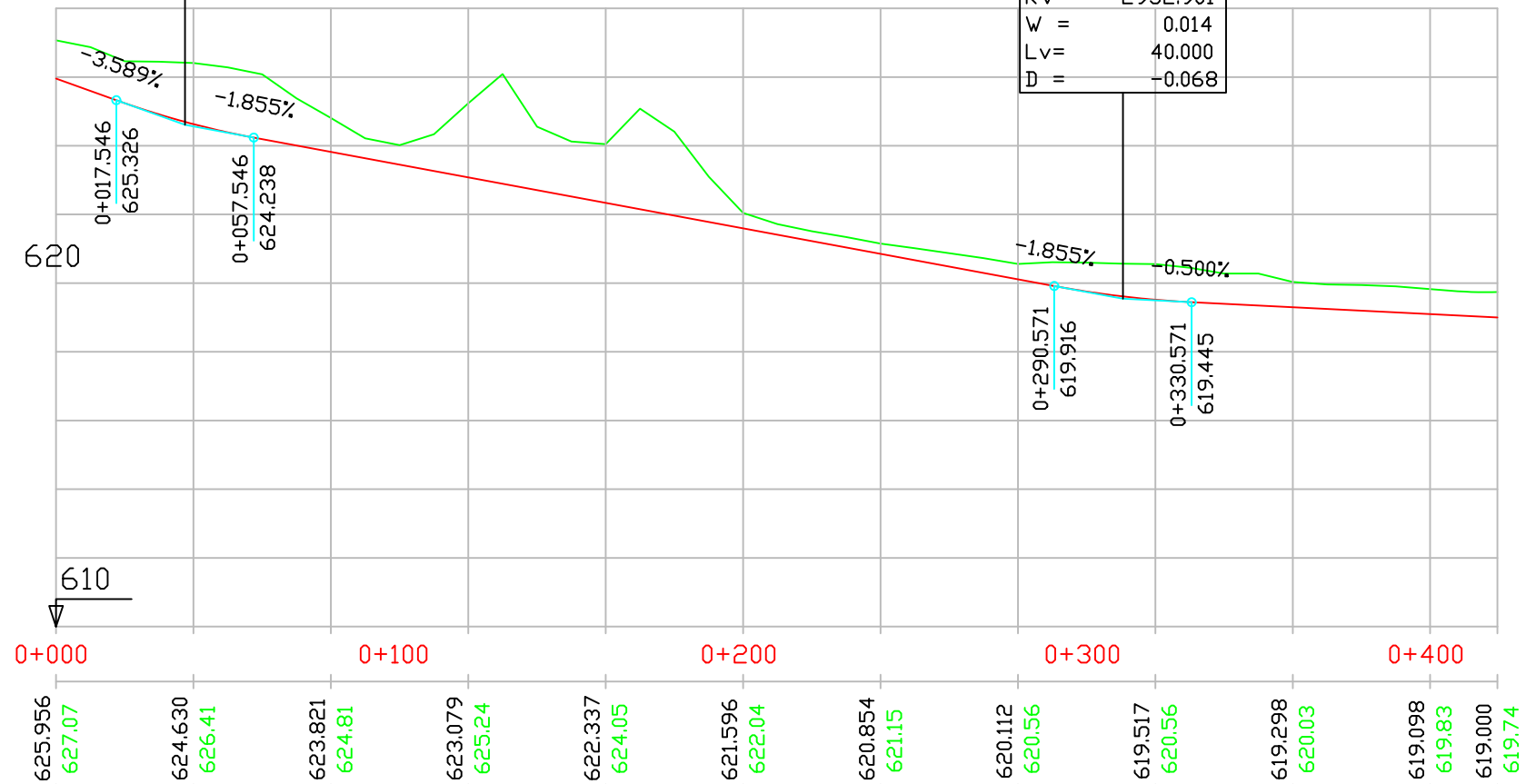


EJE 25  
PK 0+000 - 0+419.568

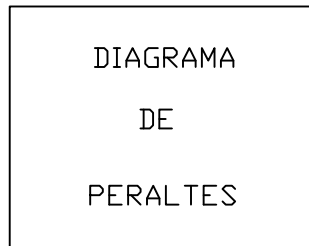
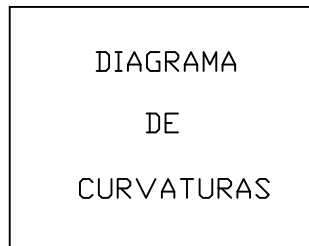
PK= 0+037.546  
CV= 624.609  
KV= 2306.373  
W = 0.017  
Lv= 40.000  
D = -0.087

PK= 0+310.571  
CV= 619.545  
KV= 2952.901  
W = 0.014  
Lv= 40.000  
D = -0.068

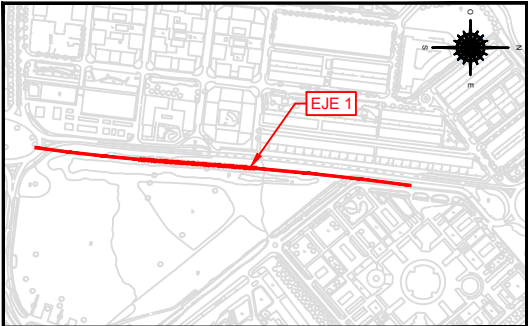
LEYENDA  
— RASANTE  
— TERRENO



P.K.	COTAS RASANTE	COTAS TERRENO
0+000	625.956	627.07
0+037.546	624.630	626.41
0+057.546	623.821	624.81
0+100	623.079	625.24
0+150	622.337	624.05
0+200	621.596	622.04
0+250	620.854	621.15
0+300	620.112	620.56
0+310.571	619.517	620.56
0+330.571	619.298	620.03
0+400	619.098	619.83
0+419.568	619.000	619.74





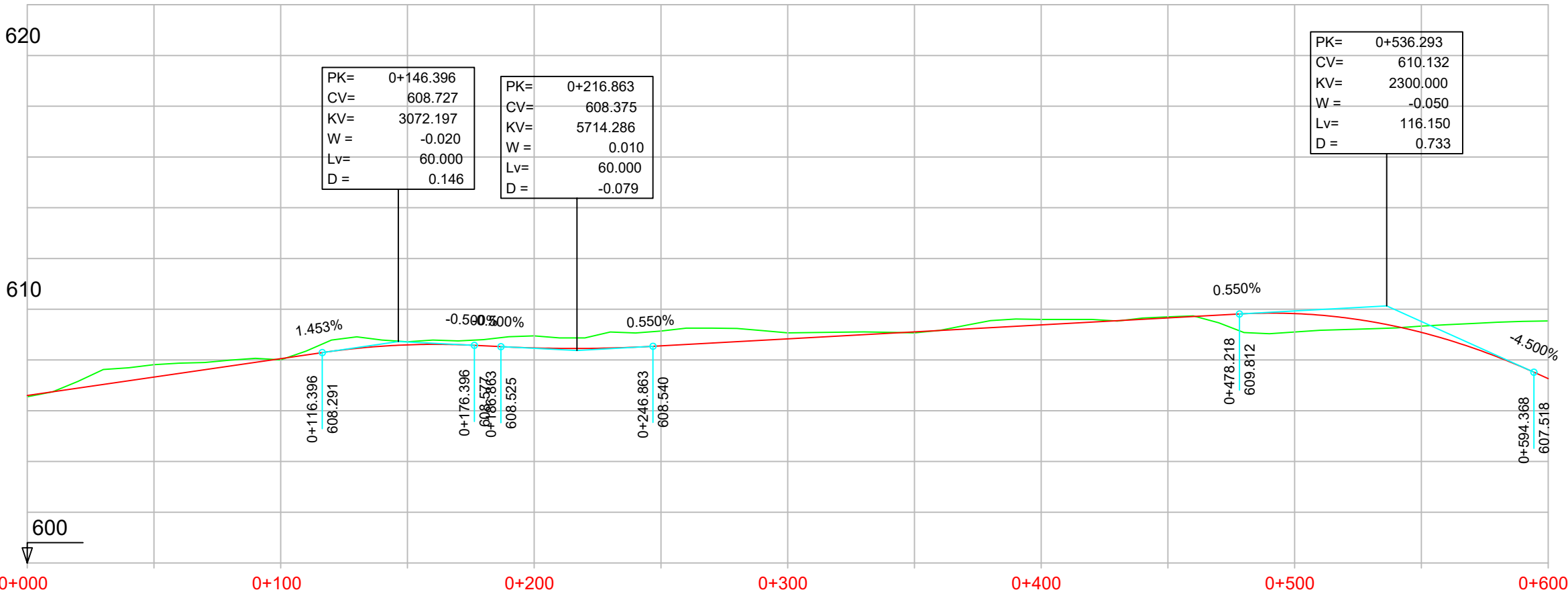


EJE 1  
PK 0+000 - 0+600

**LEYENDA**

RASANTE

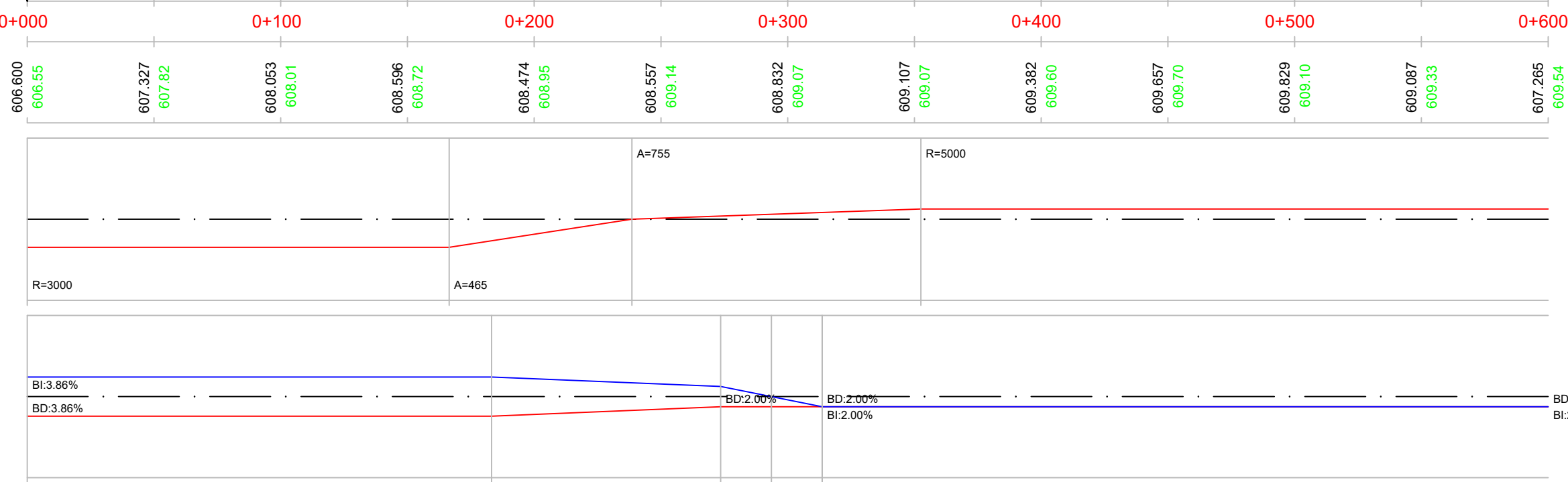
TERRENO

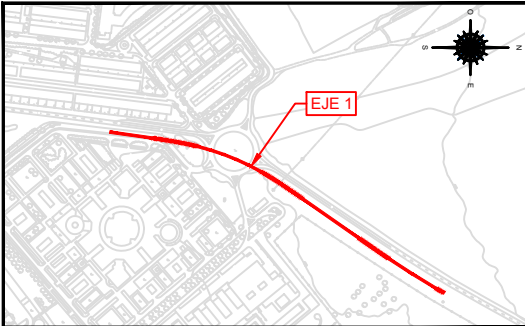


P.K.		
COTAS	RASANTE	TERRENO

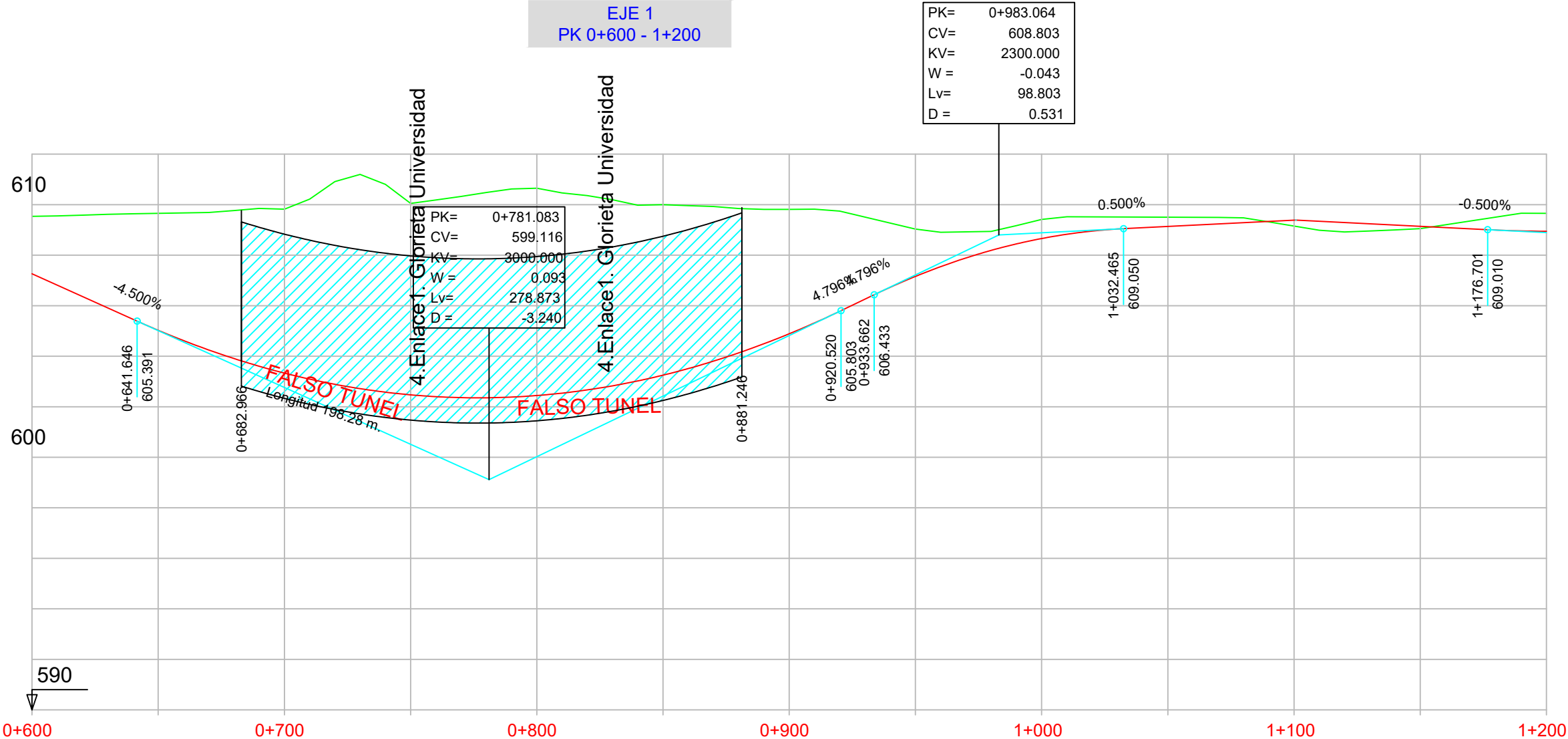
DIAGRAMA DE CURVATURAS		

DIAGRAMA DE PERALTES		





LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

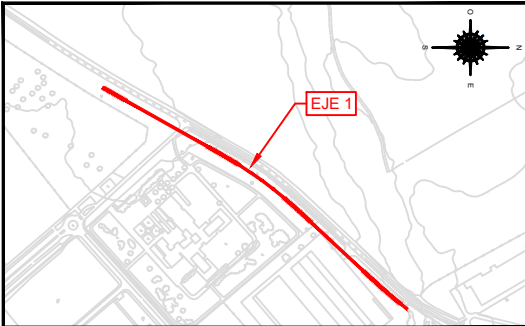


P.K.		
COTAS	RASANTE	TERRENO

0+600	0+700	0+800	0+900	1+000	1+100	1+200
607.265 609.54	605.026 609.66	603.332 609.82	602.472 610.05	602.444 610.65	603.250 610.00	604.889 609.81
						607.159 609.03
						608.658 609.41
						609.137 609.50
						609.387 609.15
						609.143 609.05
						608.944 609.66

DIAGRAMA DE CURVATURAS	
R=5000	A=180
R=404	A=180
RECTA	
A=295	R=1500
A=295	

DIAGRAMA DE PERALTES	
BD:2.00%	BI:8.00%
BD:8.00%	
BD:6.12%	BI:6.12%



EJE 1  
PK 1+200 - 1+800

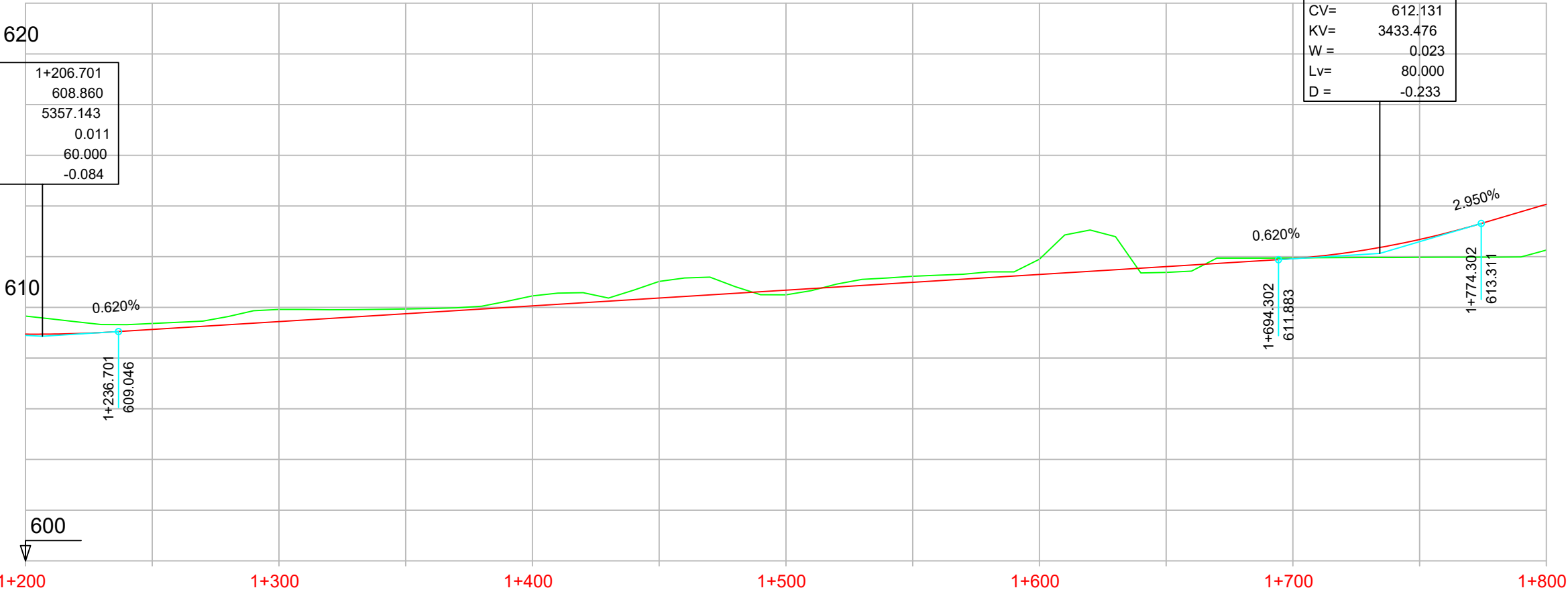
**LEYENDA**

— RASANTE

— TERRENO

PK=	1+206.701
CV=	608.860
KV=	5357.143
W =	0.011
Lv=	60.000
D =	-0.084

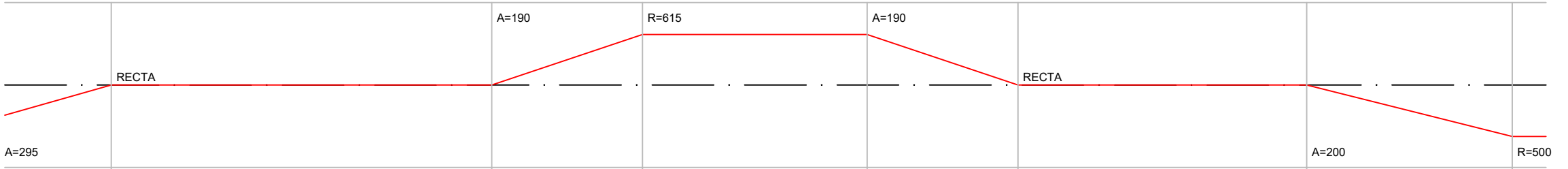
PK=	1+734.302
CV=	612.131
KV=	3433.476
W =	0.023
Lv=	80.000
D =	-0.233



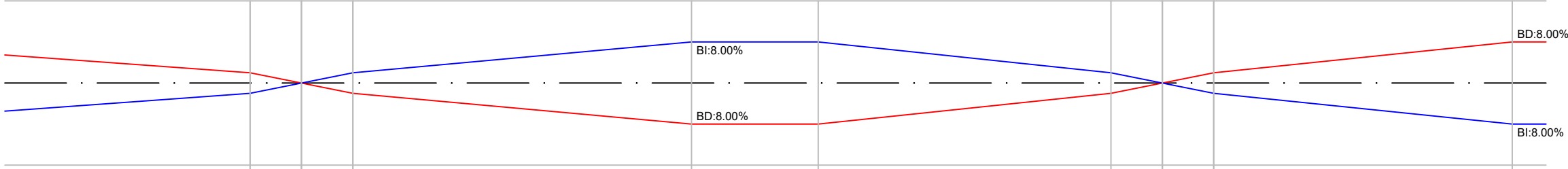
P.K.		
COTAS	RASANTE	TERRENO

1+200	1+300	1+400	1+500	1+600	1+700	1+800						
608.944 609.66	609.128 609.36	609.438 609.92	609.748 609.94	610.058 610.45	610.368 611.02	610.678 610.50	610.988 611.23	611.298 611.90	611.608 611.38	611.923 611.95	612.680 611.98	614.069 612.26

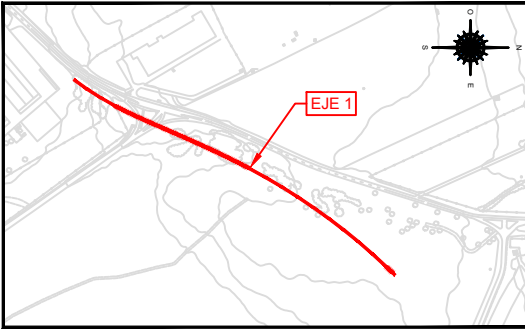
**DIAGRAMA DE CURVATURAS**



**DIAGRAMA DE PERALTES**

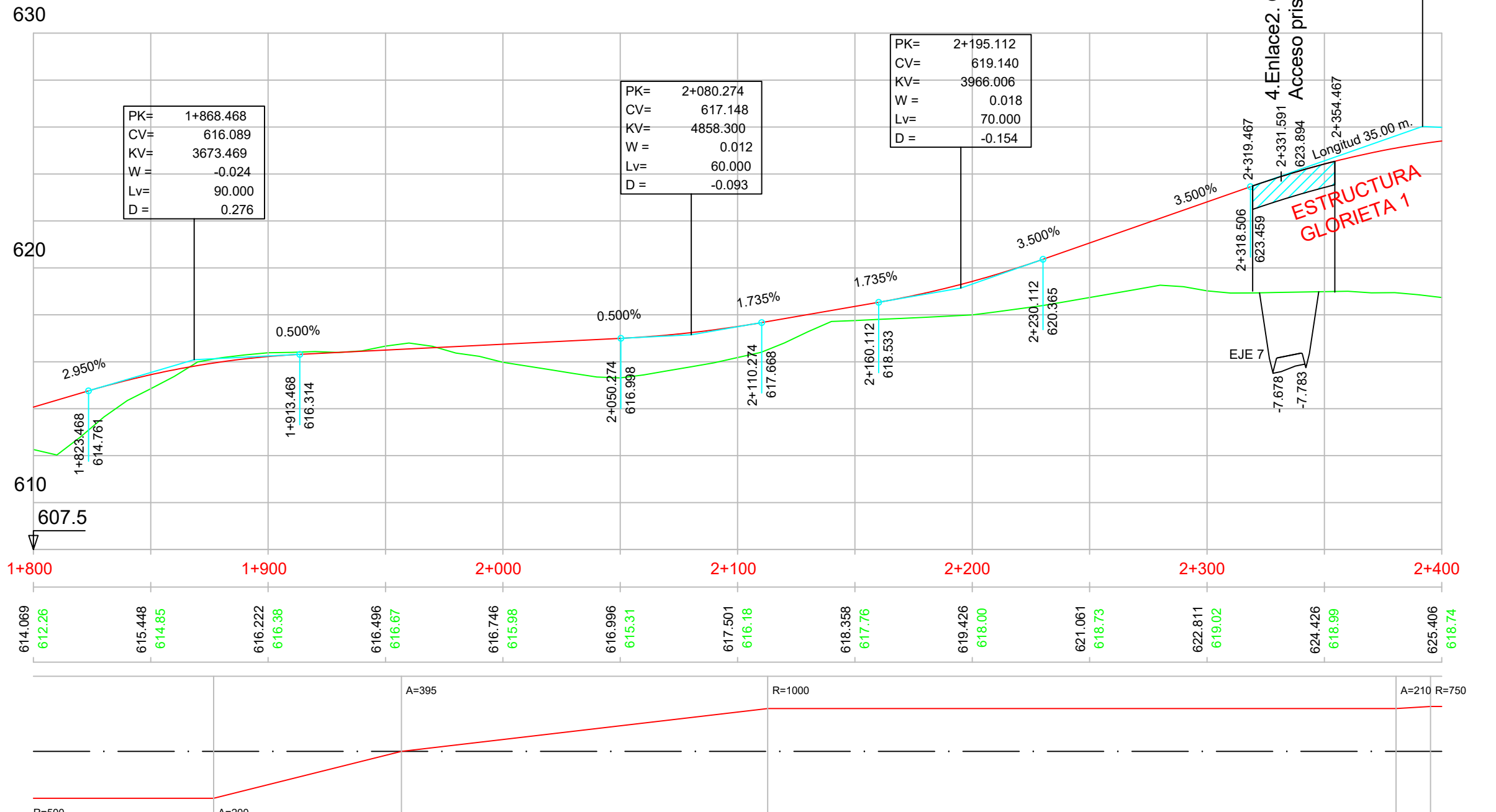


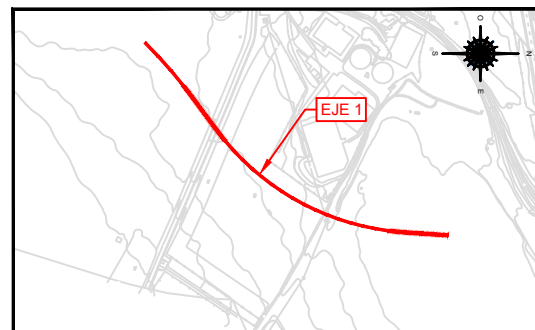




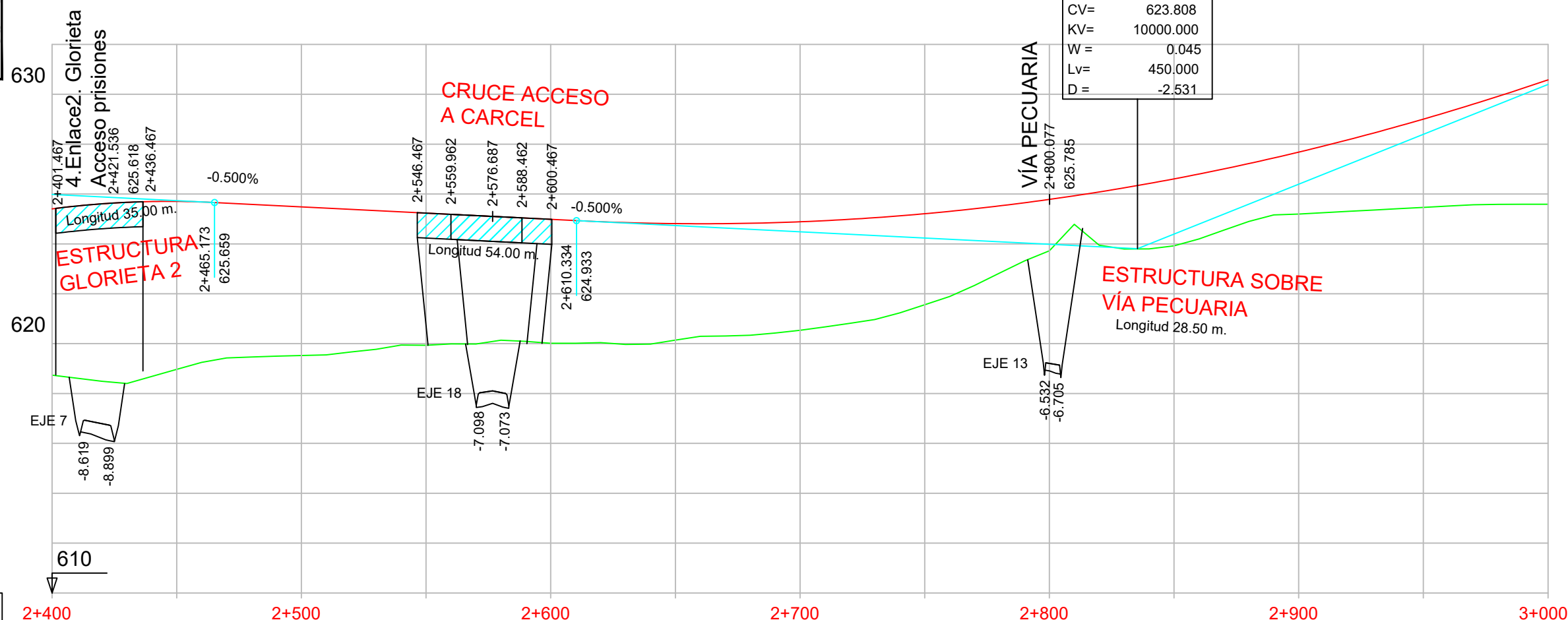
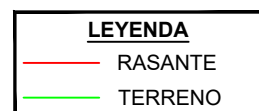
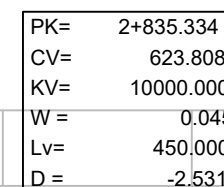
EJE 1  
PK 1+800 - 2+400

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

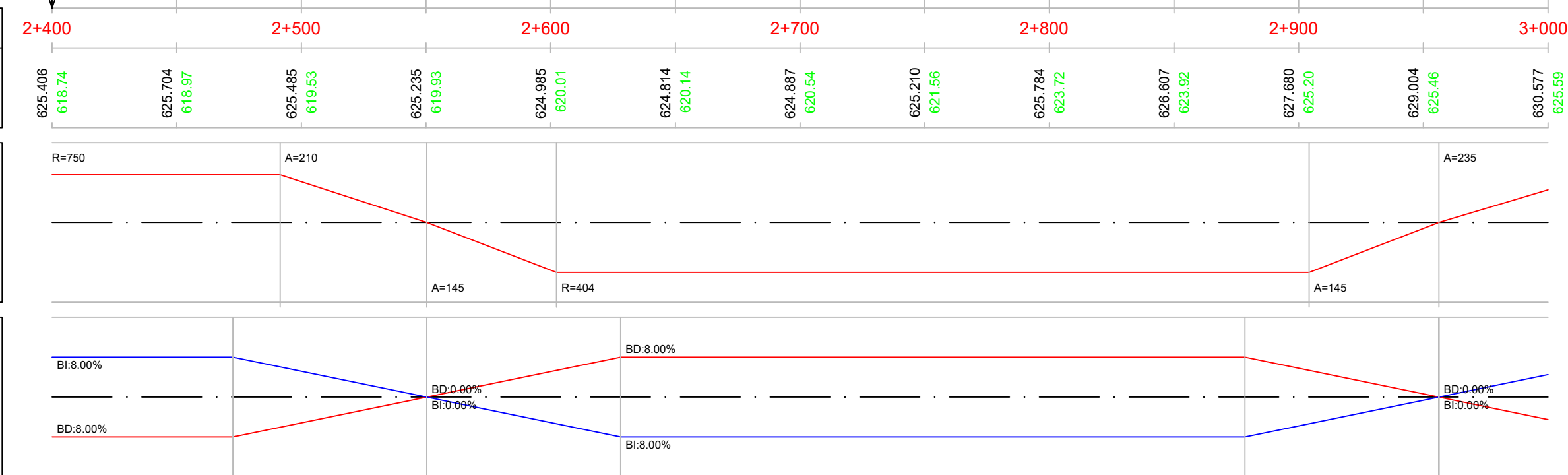
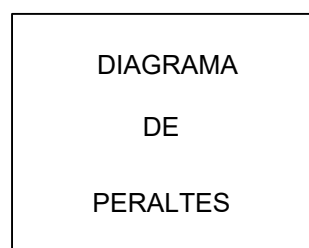
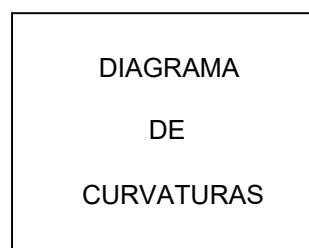


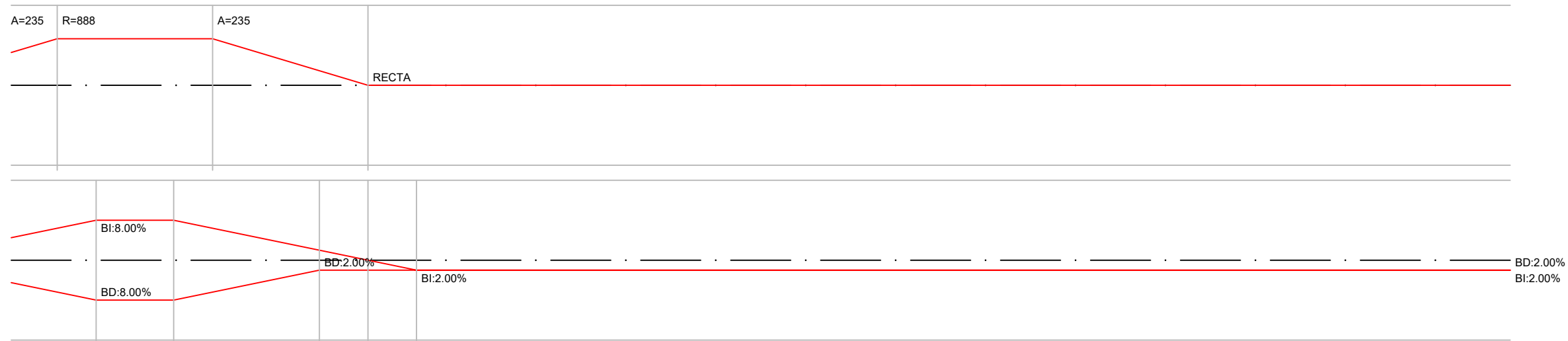
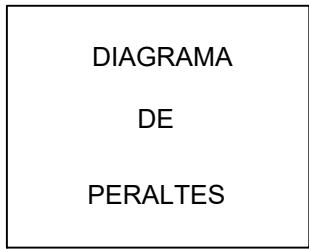
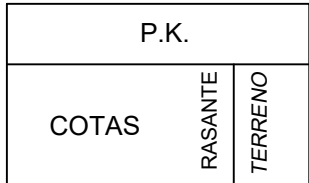


EJE 1  
PK 2+400 - 3+000

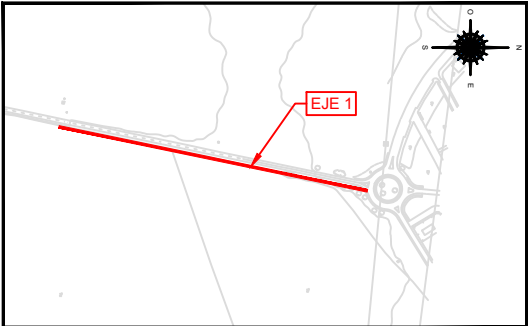


P.K.		
COTAS	RASANTE	TERRENO





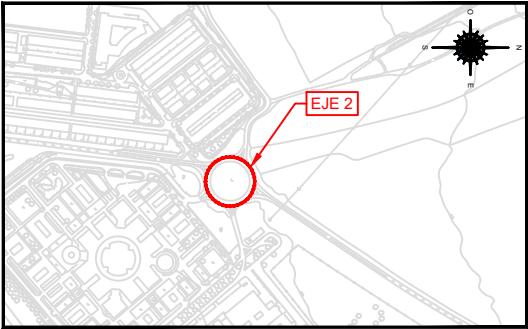




LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

P.K.		
COTAS	RASANTE	TERRENO
DIAGRAMA DE CURVATURAS		
DIAGRAMA DE PERALTES		

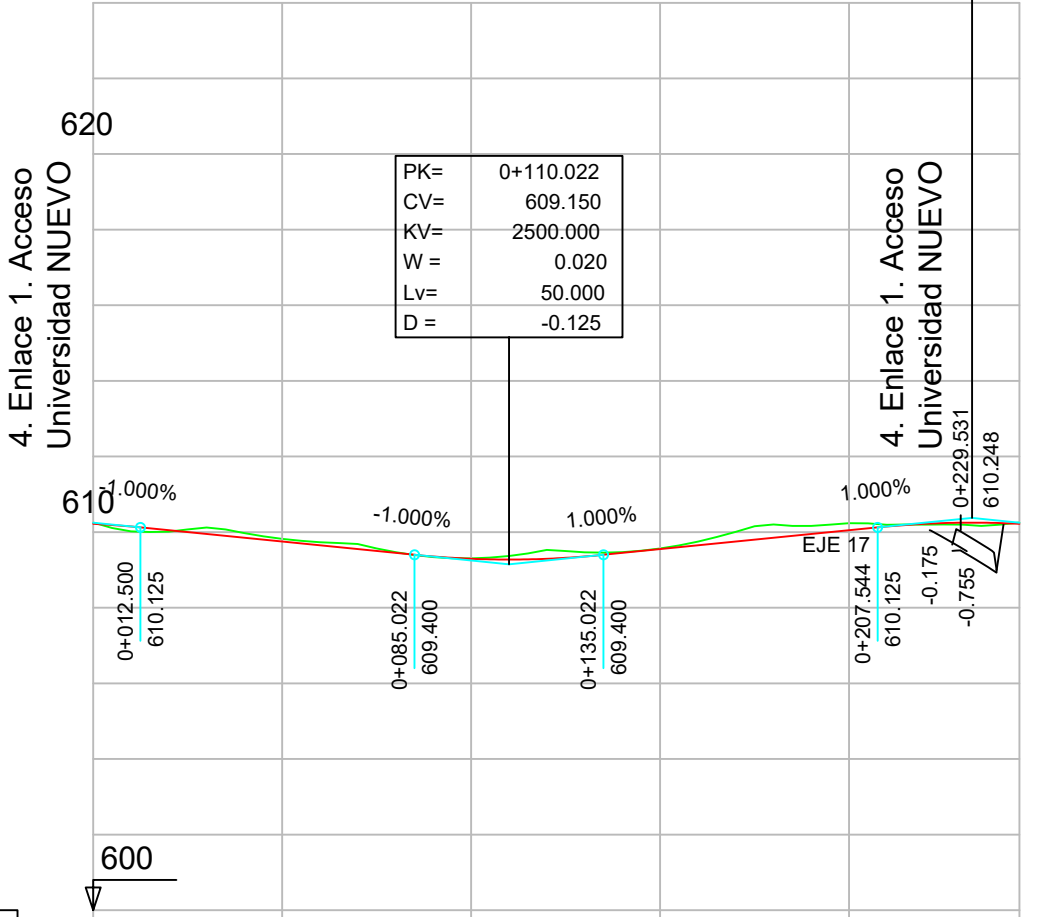




LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 2  
PK 0+000 - 0+245.04

PK=	0+232.544
CV=	610.375
KV=	2500.000
W =	-0.020
Lv=	50.000
D =	0.125



P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200
610.219 610.25	609.750 609.82	609.295 609.31
	609.550 609.57	610.050 610.23
		610.219 610.25

DIAGRAMA DE CURVATURAS
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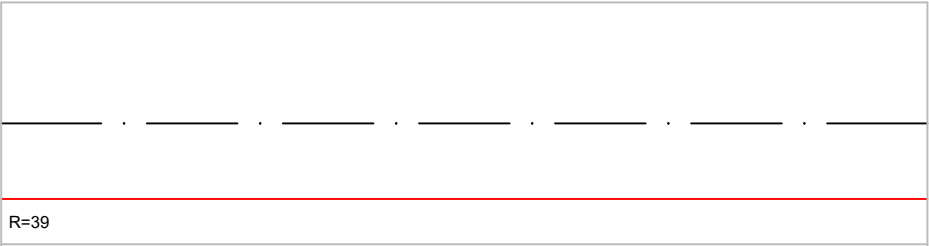
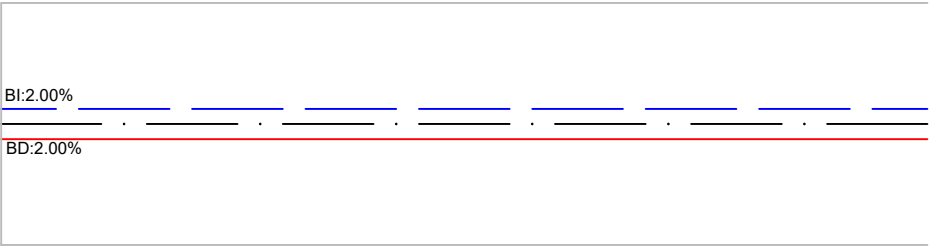
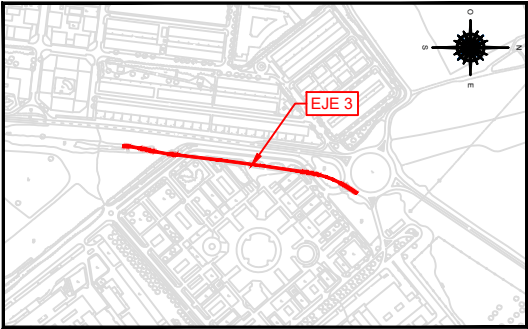


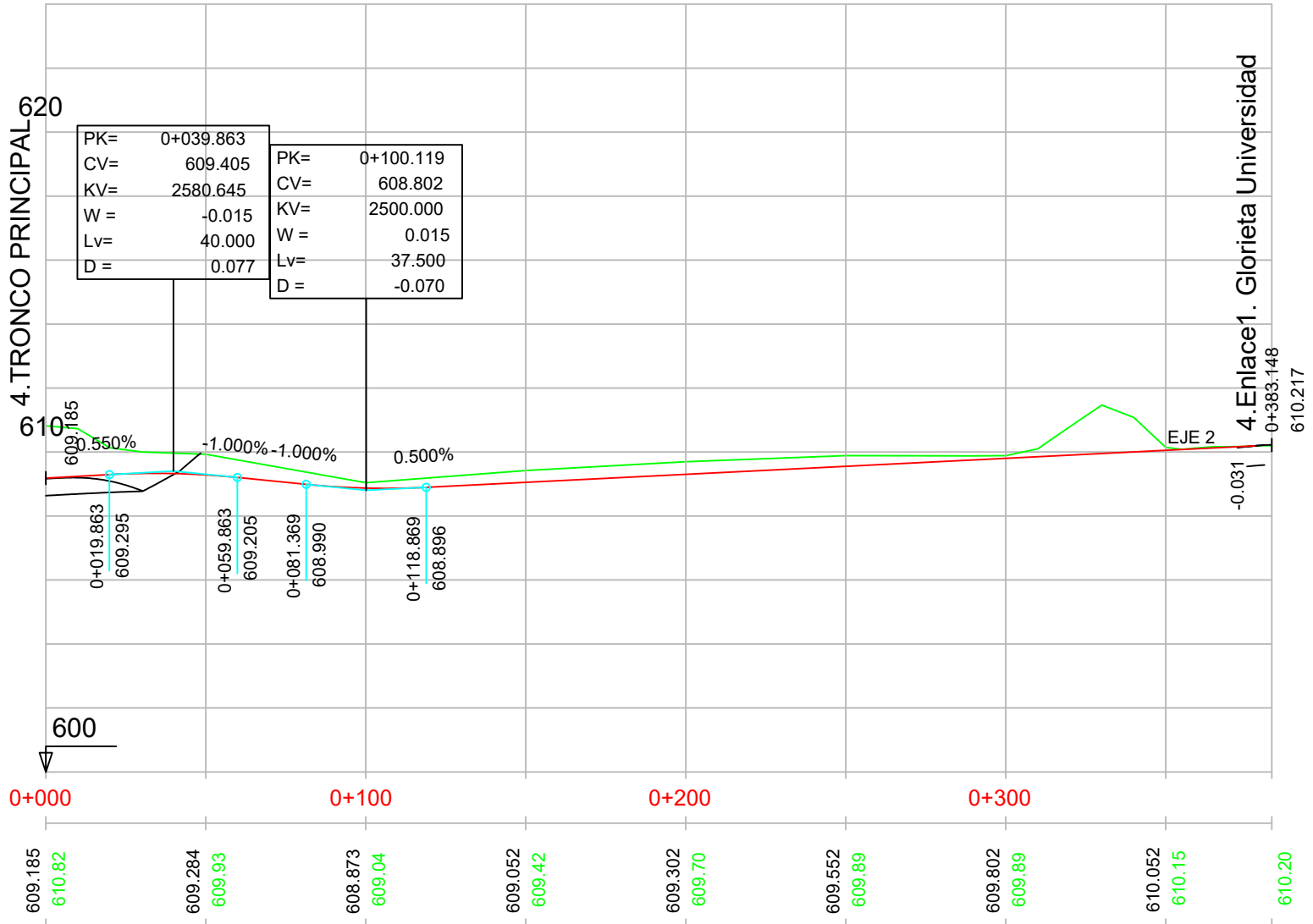
DIAGRAMA DE PERALTES
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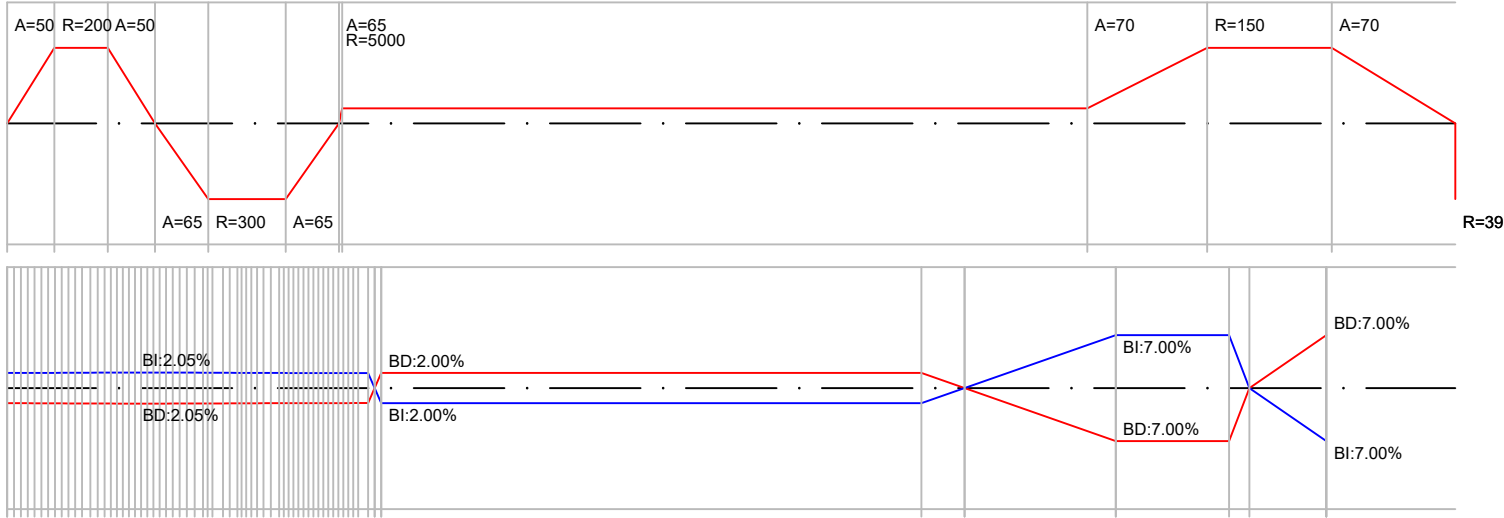
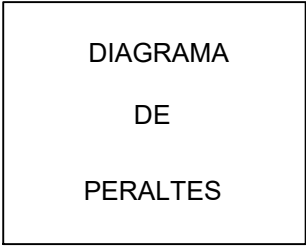
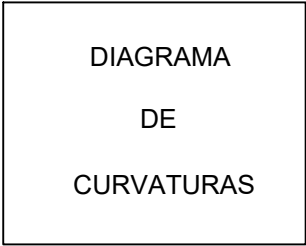


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

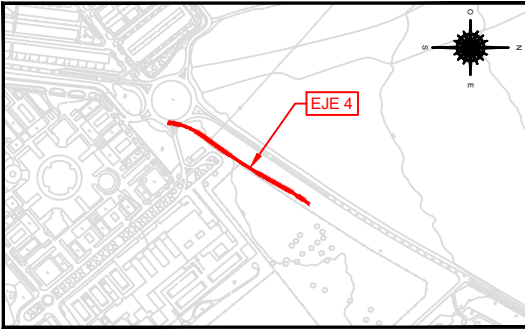
EJE 3  
PK 0+000 - 0+383.15



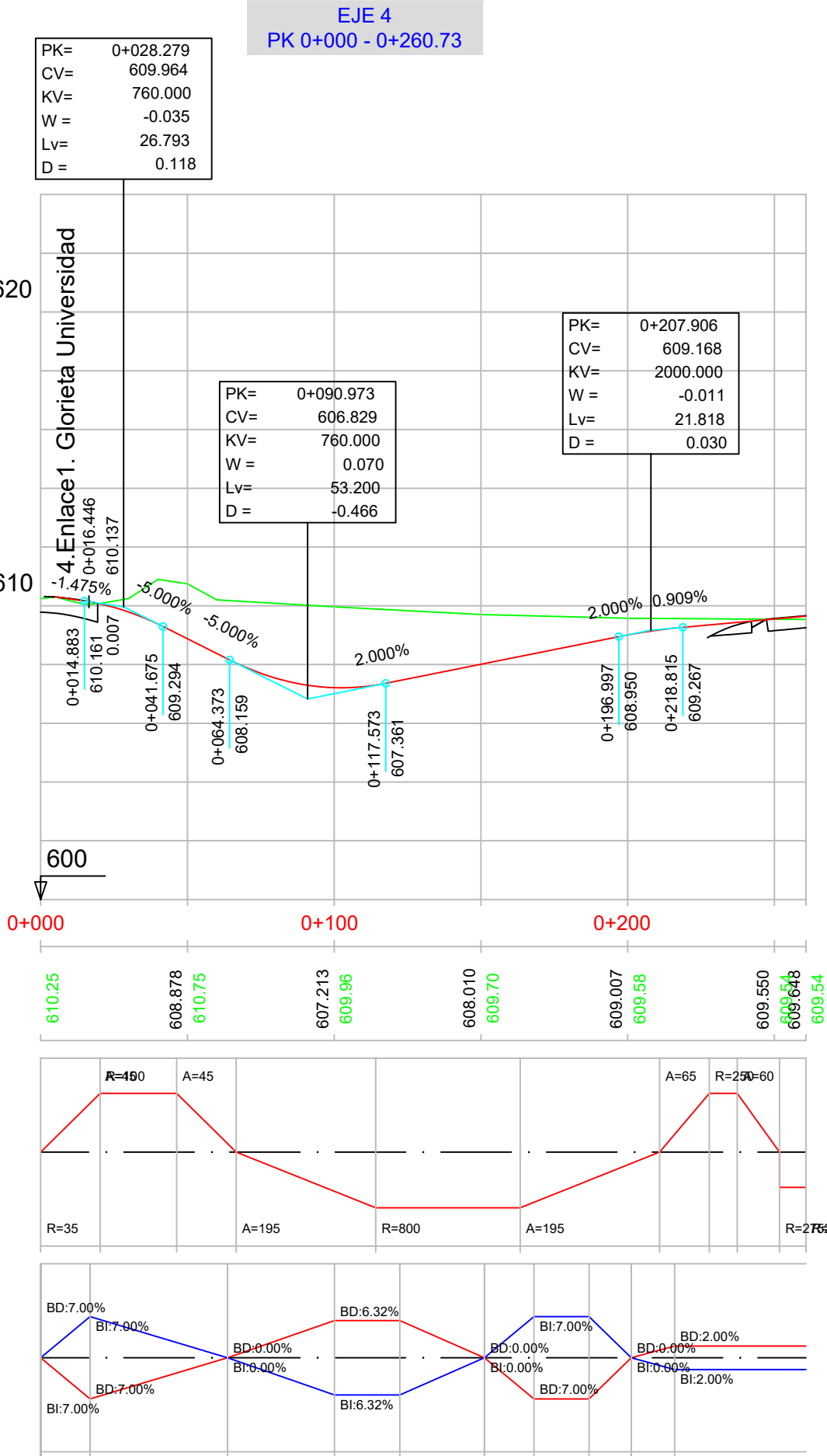
P.K.	COTAS	RASANTE	TERRENO
0+000	609.185	610.82	609.82
0+100	609.284	609.93	609.93
0+200	608.873	609.04	609.04
0+300	609.052	609.42	609.42
0+383.15	609.302	609.70	609.70
0+383.15	609.552	609.89	609.89
0+383.15	609.802	609.89	609.89
0+383.15	610.052	610.15	610.15
0+383.15	610.20		610.20







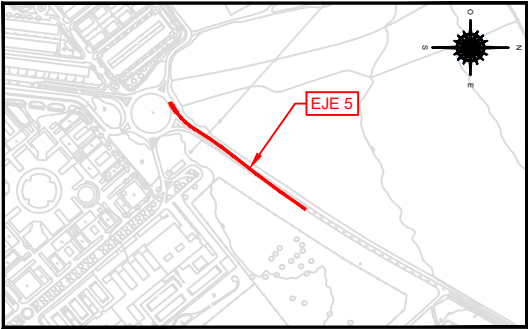
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS	

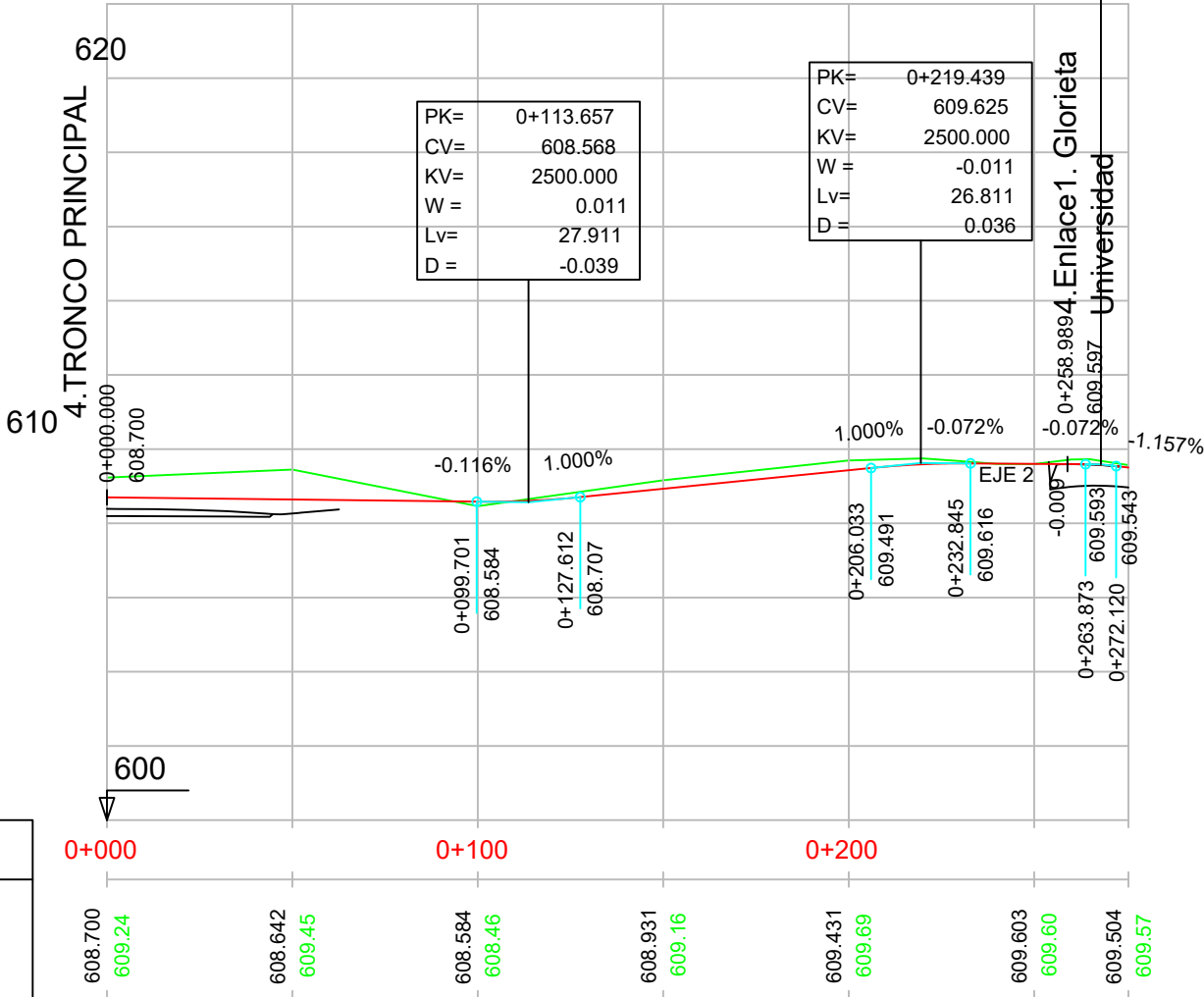
DIAGRAMA DE PERALTES	



LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 5  
PK 0+000 - 0+205.44

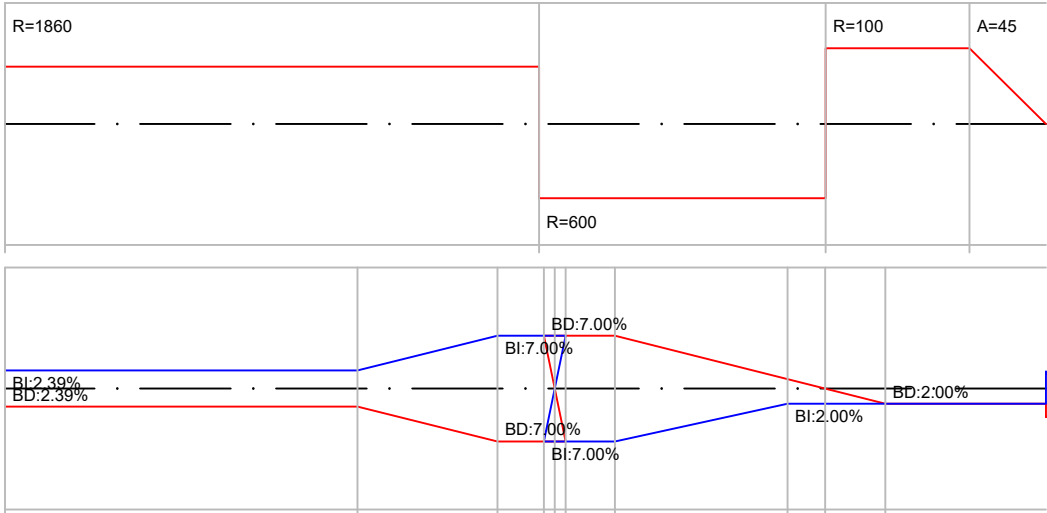
PK=	0+267.996
CV=	609.590
KV=	760.000
W =	-0.011
Lv=	8.246
D =	0.011

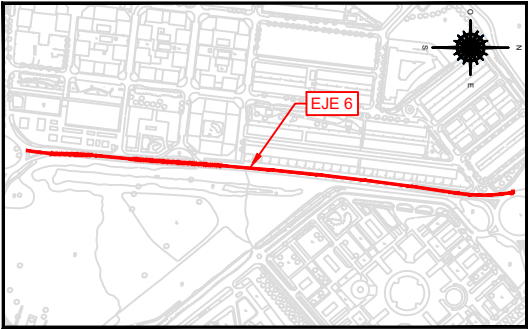


P.K.		
COTAS		
RASANTE	TERRENO	

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES

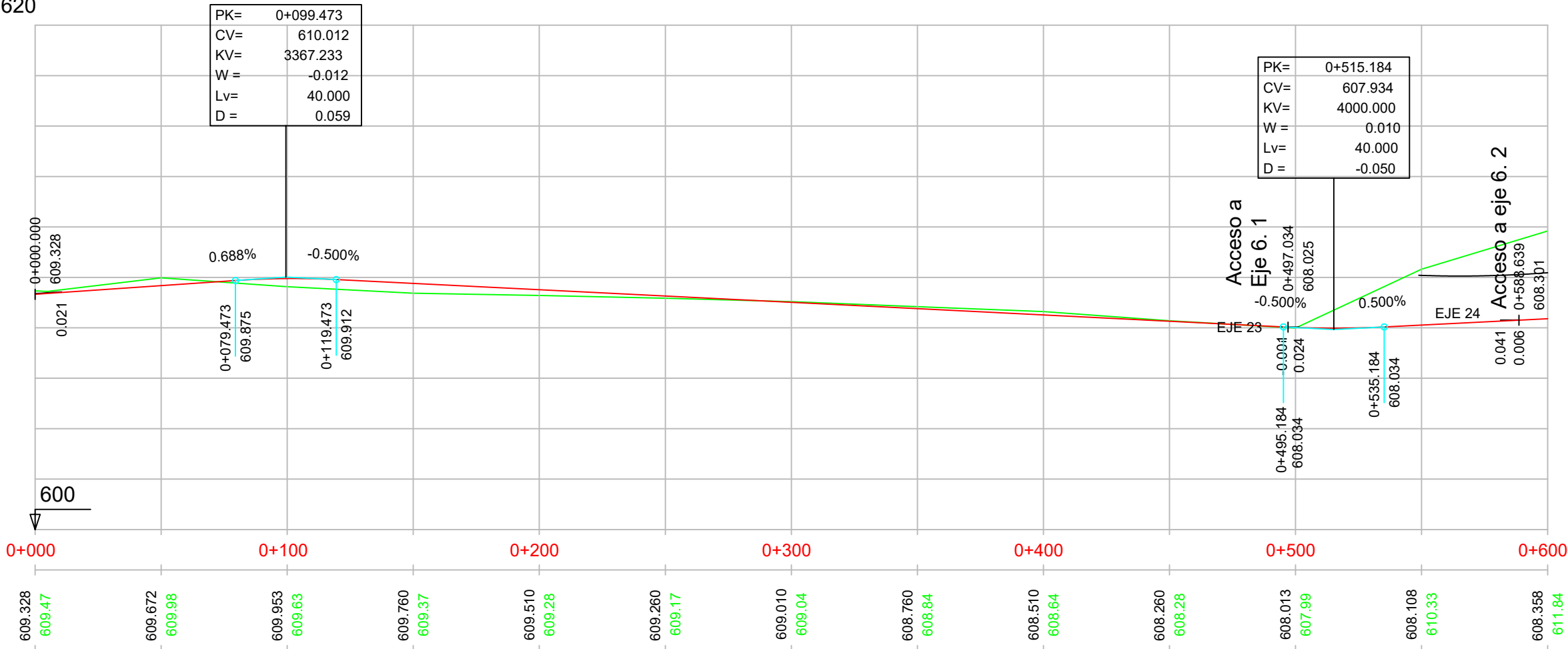




EJE 6  
PK 0+000 - 0+600

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

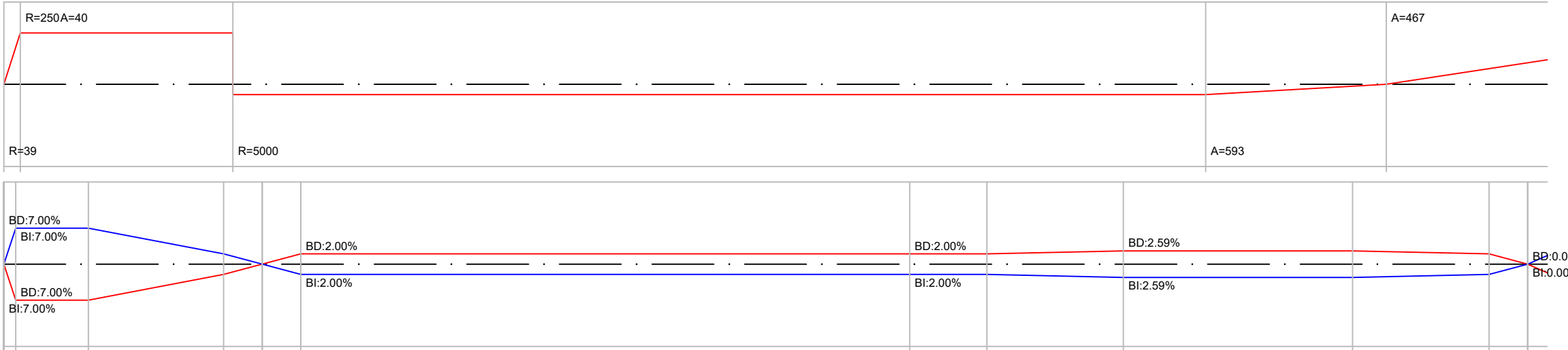
4.Enlace1. Glorieta Universidad

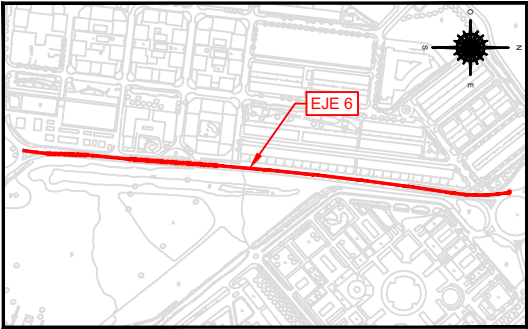


P.K.
COTAS
RASANTE
TERRENO

DIAGRAMA  
DE  
CURVATURAS

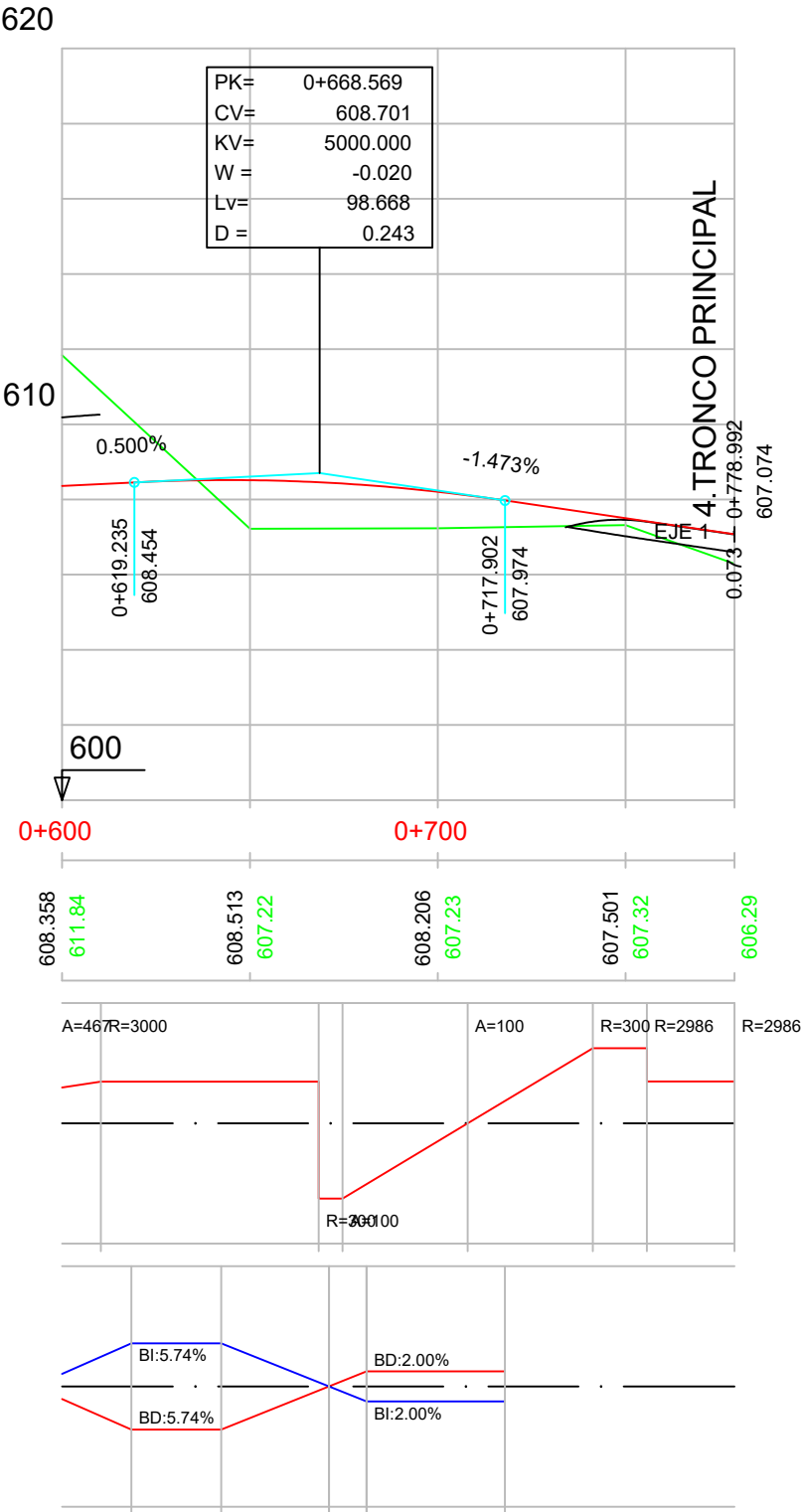
DIAGRAMA  
DE  
PERALTES



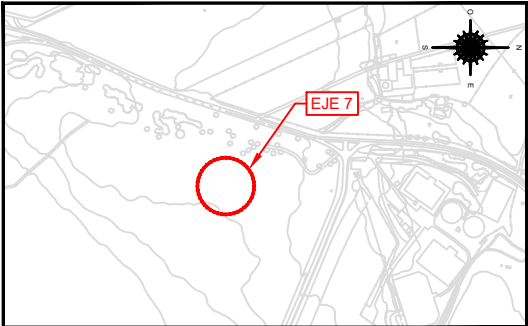


EJE 6  
PK 0+600 - 0+778.99

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO







LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

P.K.	COTAS	
	RASANTE	TERRENO

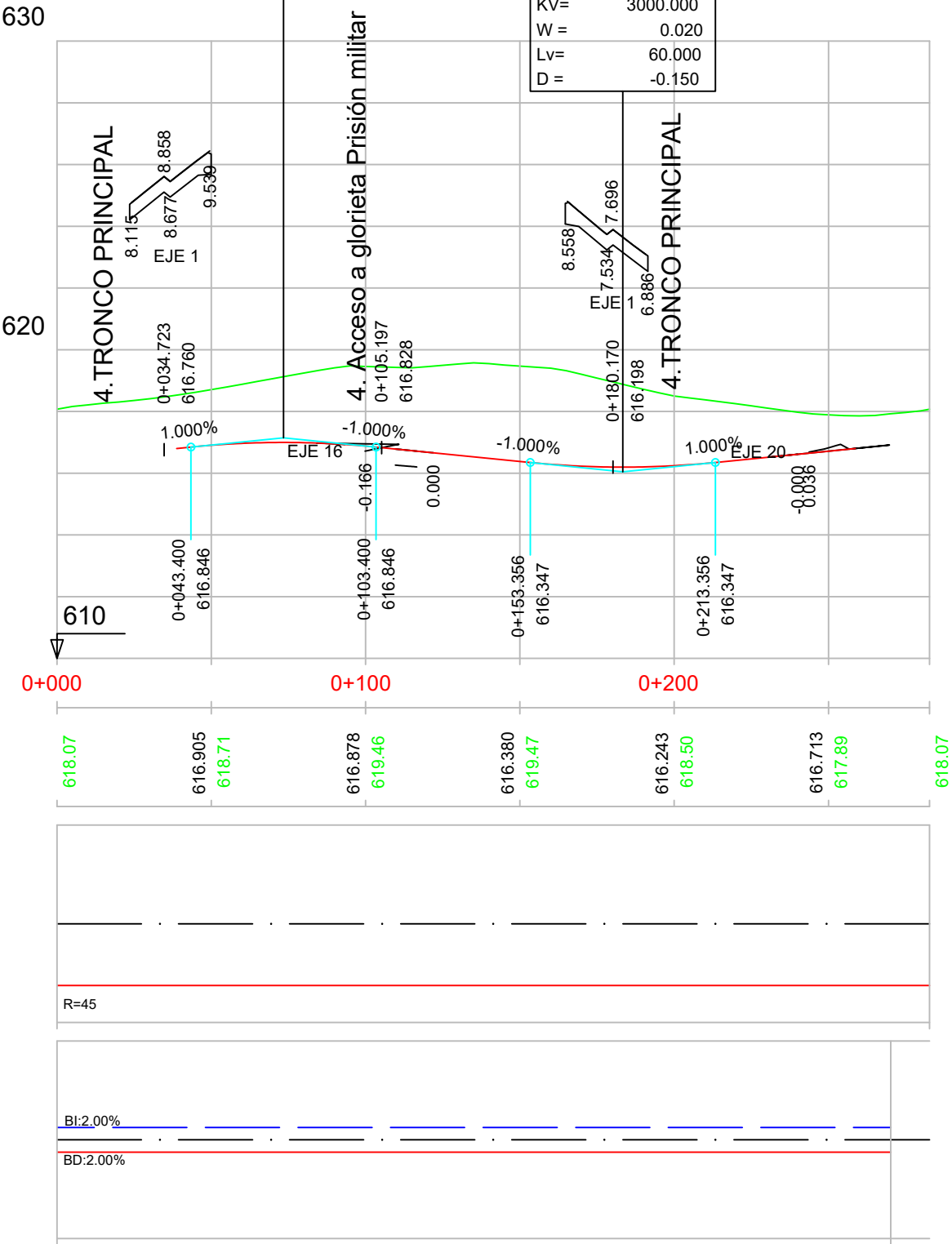
DIAGRAMA DE CURVATURAS
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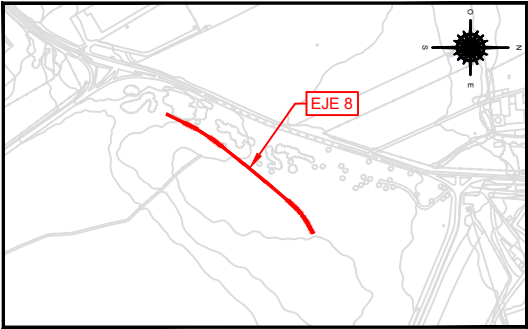
DIAGRAMA DE PERALTES
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EJE 7  
PK 0+00 - 0+282.04

PK=	0+073.400
CV=	617.146
KV=	3000.000
W =	-0.020
Lv=	60.000
D =	0.150

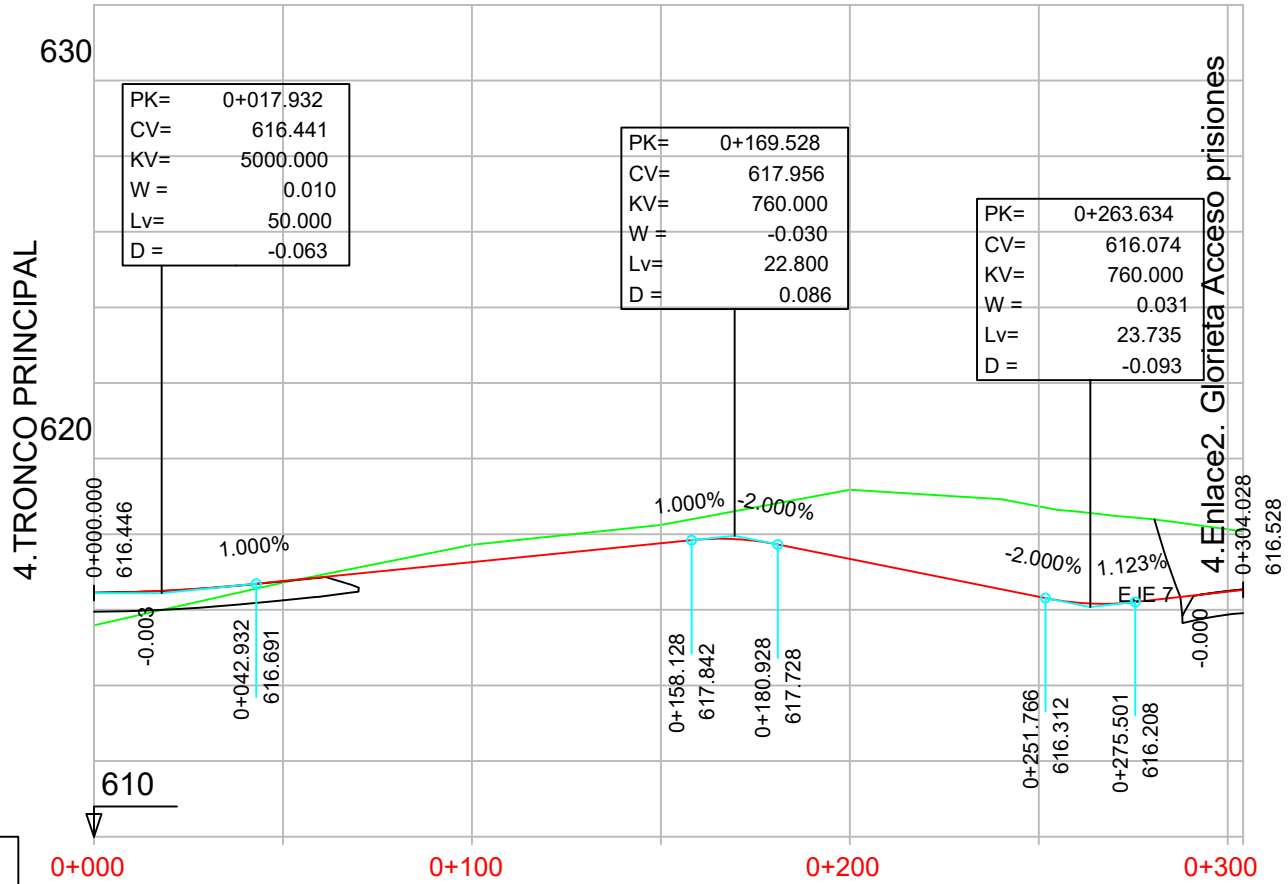
PK=	0+183.356
CV=	616.047
KV=	3000.000
W =	0.020
Lv=	60.000
D =	-0.150





LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 8  
PK 0+00 - 0+304.03



P.K.	COTAS	
	RASANTE	TERRENO

616.446	615.59	616.761	616.72	617.261	617.72	617.761	618.25	617.347	619.18	616.347	618.74	616.483	618.13	616.528	618.07
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DIAGRAMA  
DE  
CURVATURAS

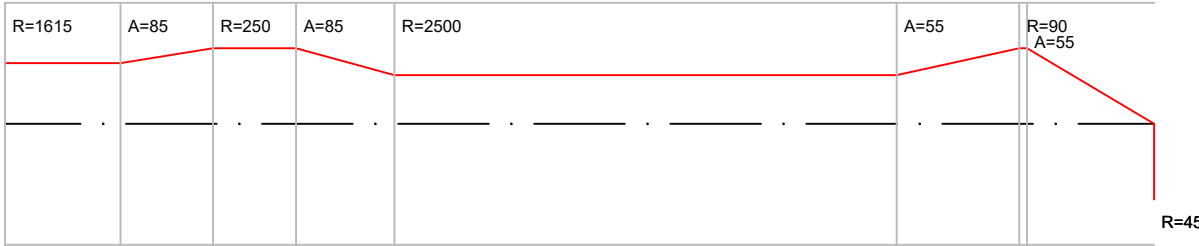
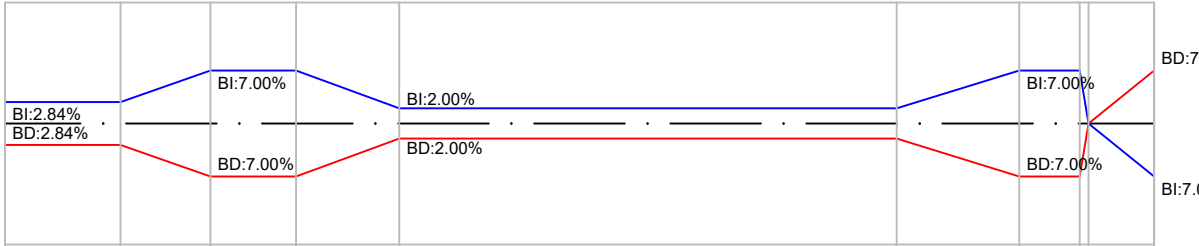
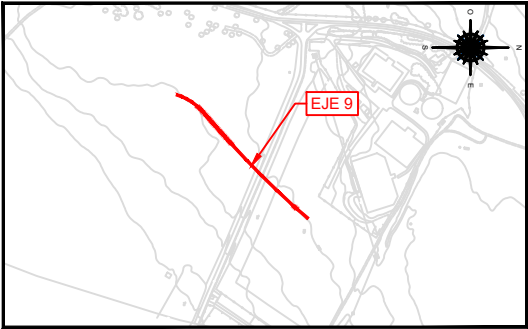


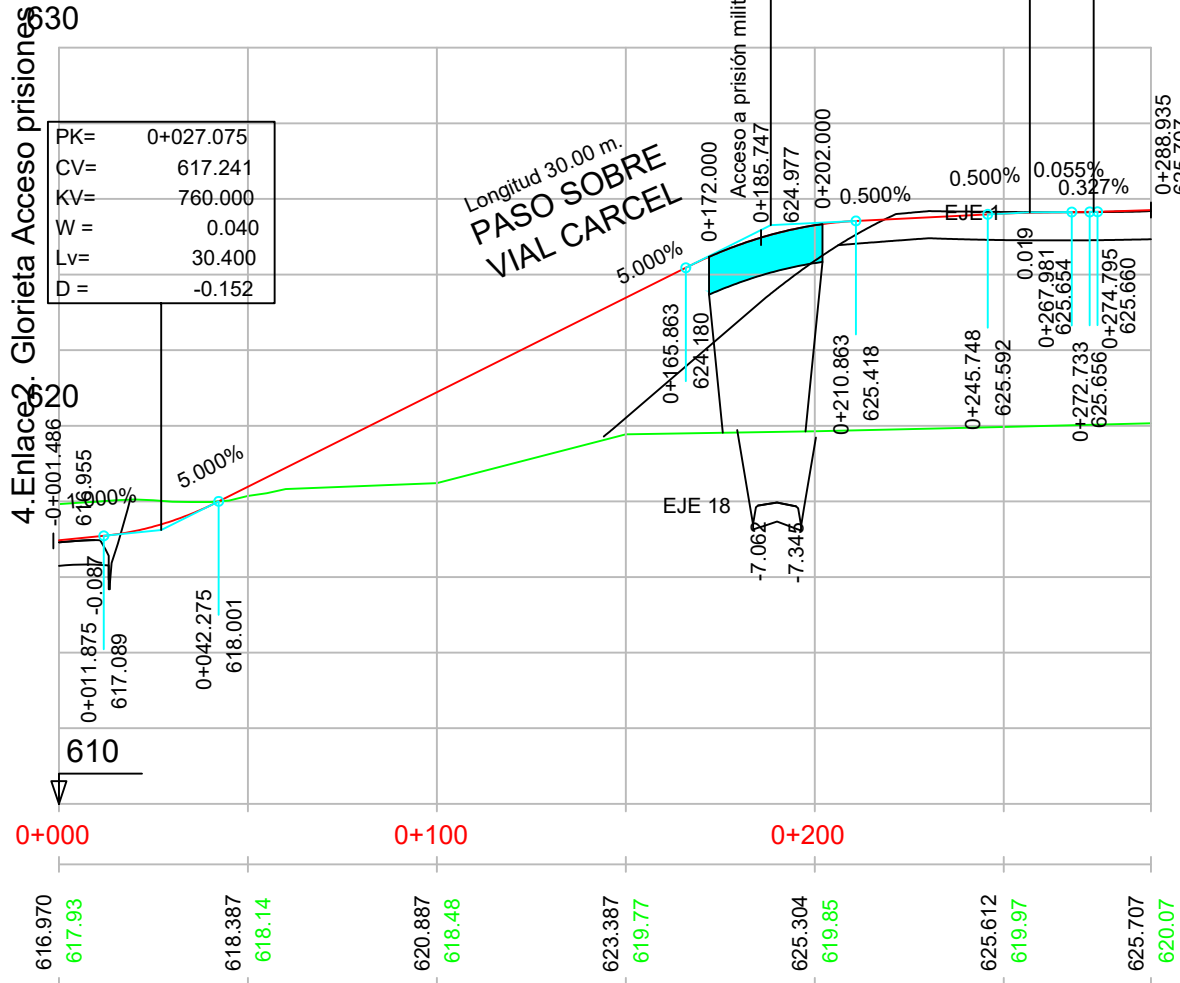
DIAGRAMA  
DE  
PERALTES





LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 9  
PK 0+00 - 0+288.01



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS	
R=85	A=45
R=45	A=300
R=1500	A=700
R=415	A=700

DIAGRAMA DE PERALTES	
BD:7.00%	BD:6.12%
BI:7.00%	BI:6.12%
BD:9.00%	BD:7.00%
BI:0.60%	BI:7.00%



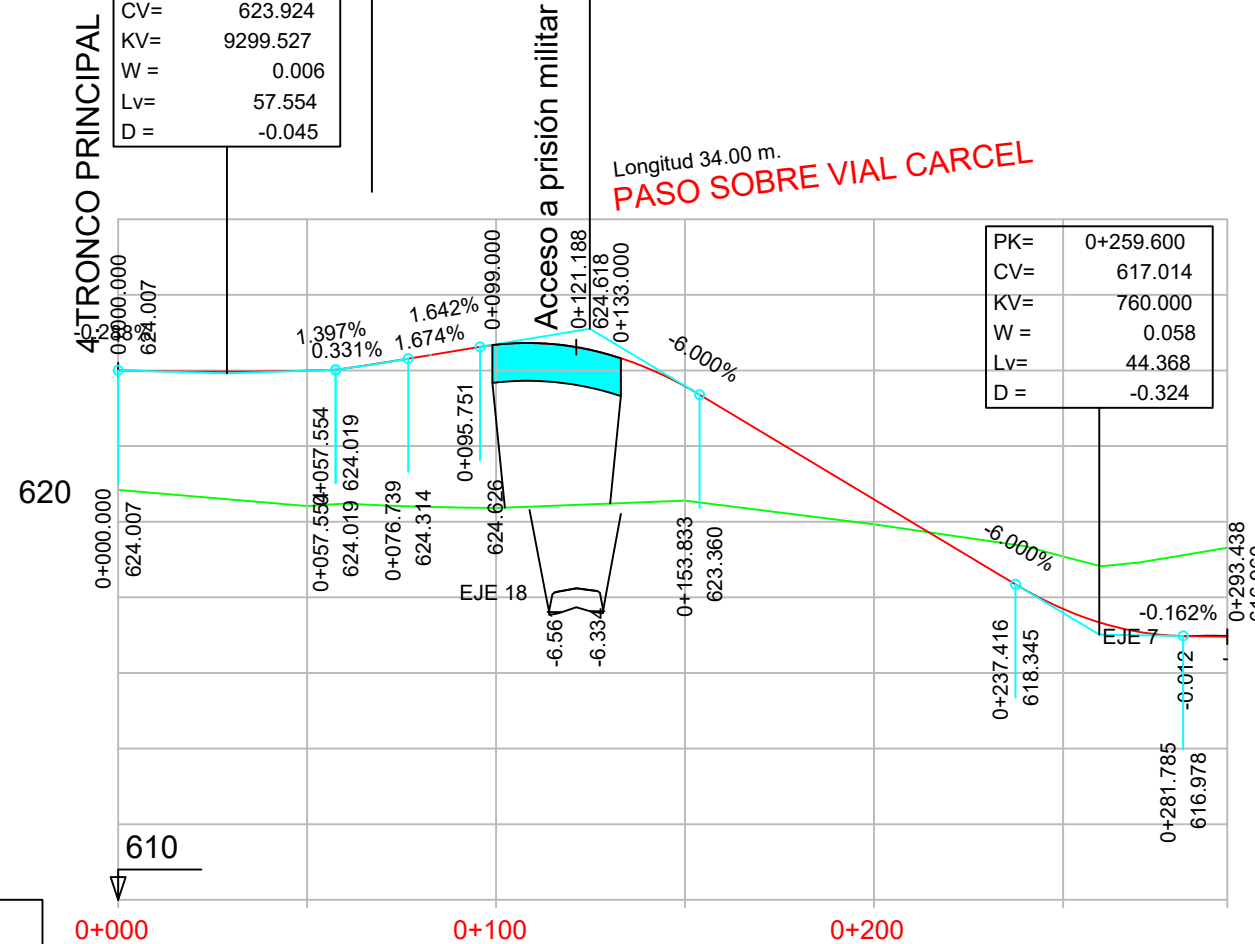
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 10  
PK 0+00 - 0+293.44

PK=	0+067.147
CV=	624.153
KV=	6944.037
W =	0.003
Lv=	19.185
D =	-0.007

PK=	0+124.792
CV=	625.103
KV=	760.000
W =	-0.076
Lv=	58.082
D =	0.555

PK=	0+028.777
CV=	623.924
KV=	9299.527
W =	0.006
Lv=	57.554
D =	-0.045



P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200	0+293.44
620.84	623.997	624.684	616.960
620.42	620.36	620.56	619.31

DIAGRAMA DE CURVATURAS	
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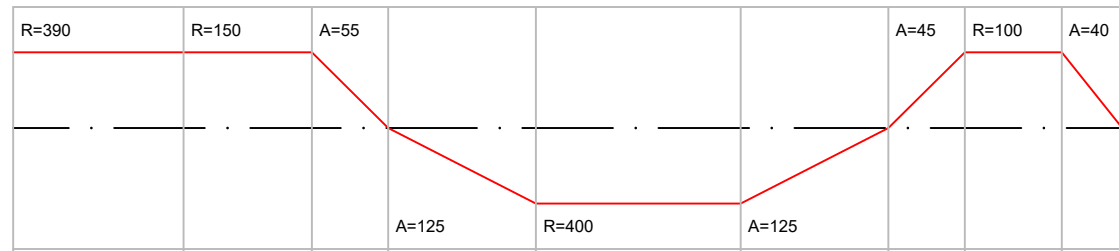
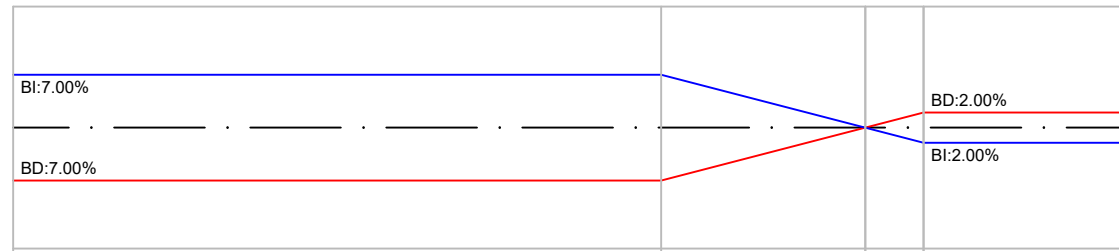
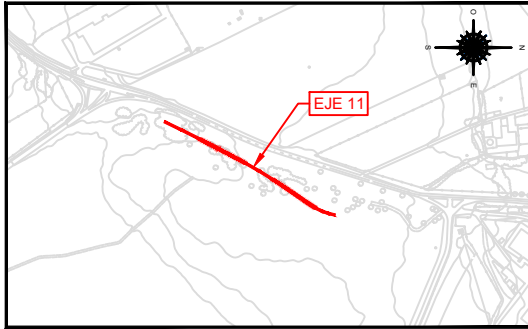


DIAGRAMA DE PERALTES	
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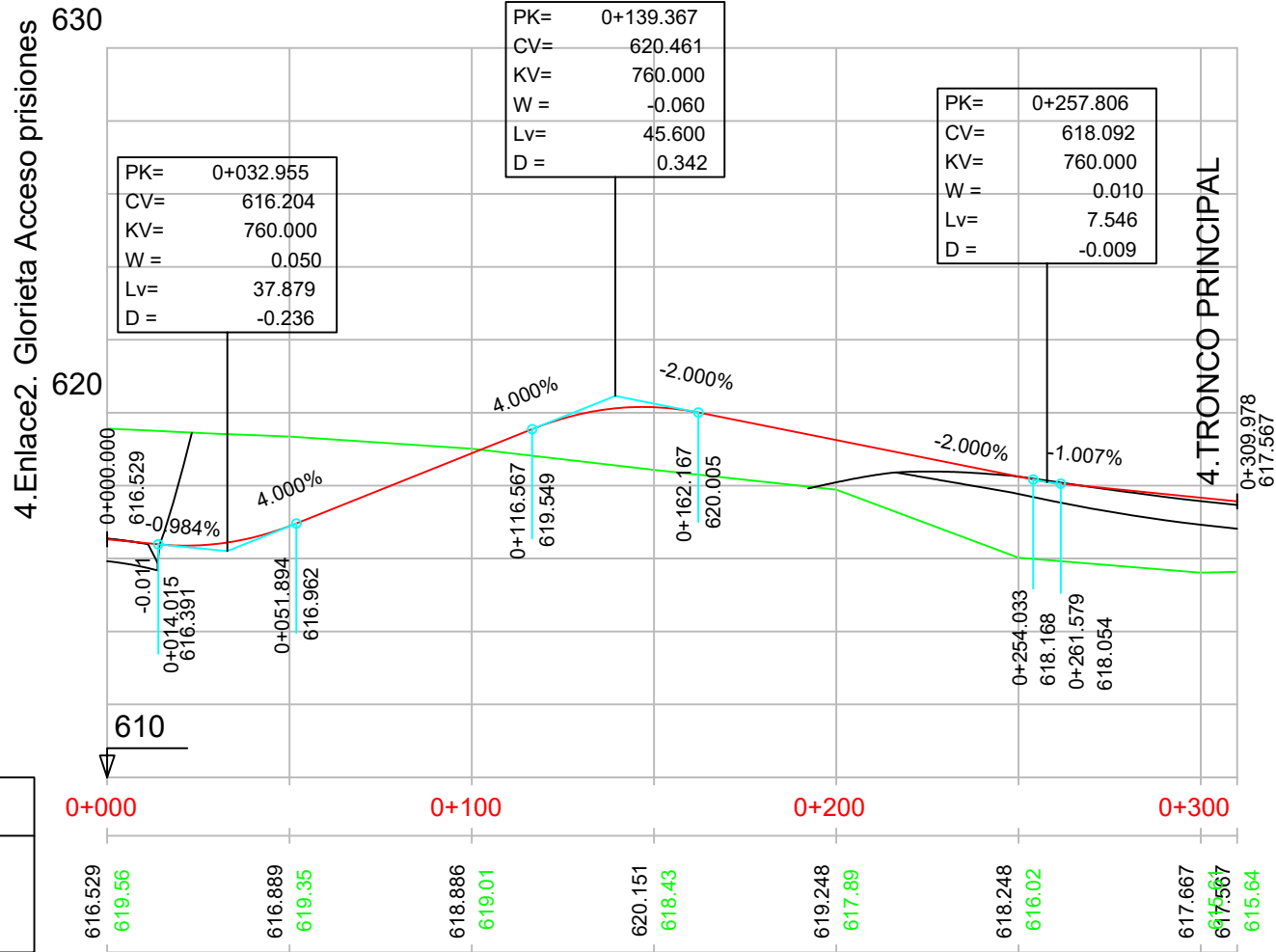




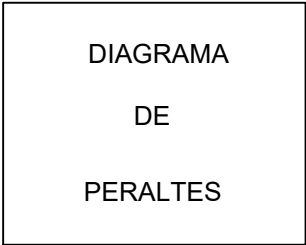
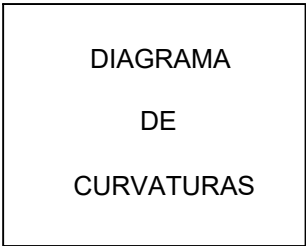


EJE 11  
PK 0+00 - 0+309.98

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

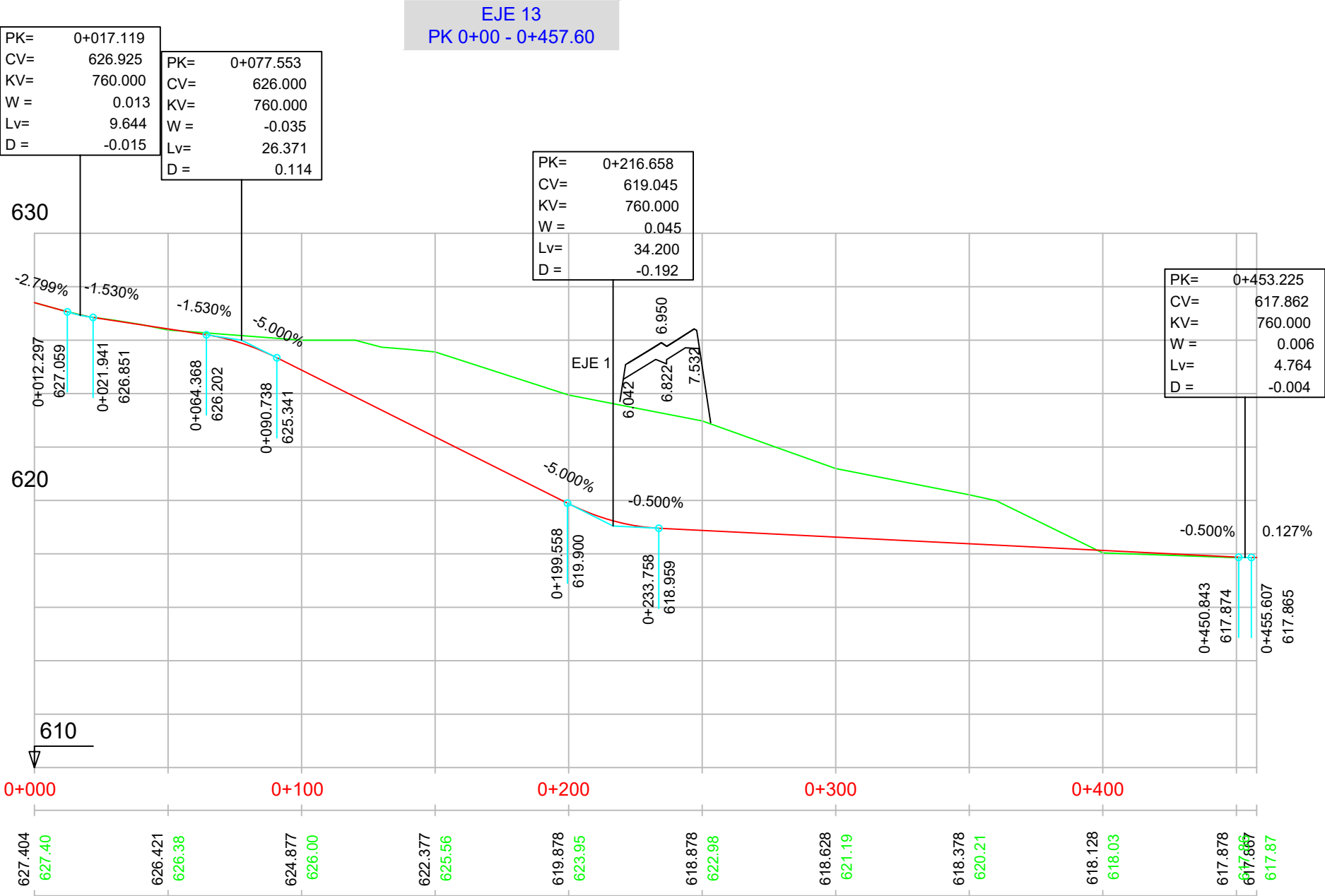


P.K.		
COTAS	RASANTE	TERRENO





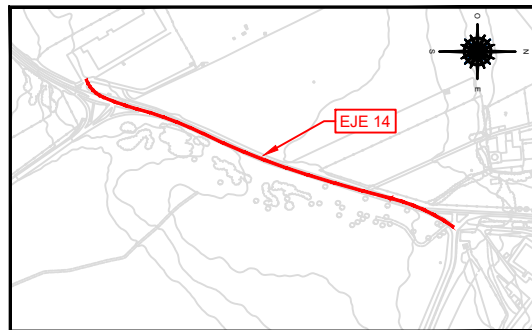
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.	COTAS RASANTE	COTAS TERRENO
0+000	627.404	627.40
0+050	626.421	626.38
0+100	624.877	626.00
0+150	622.377	625.56
0+200	619.878	623.95
0+250	618.878	622.98
0+300	618.628	621.19
0+350	618.378	620.21
0+400	618.128	618.03
0+450	617.878	617.86
0+457.60	617.865	617.87

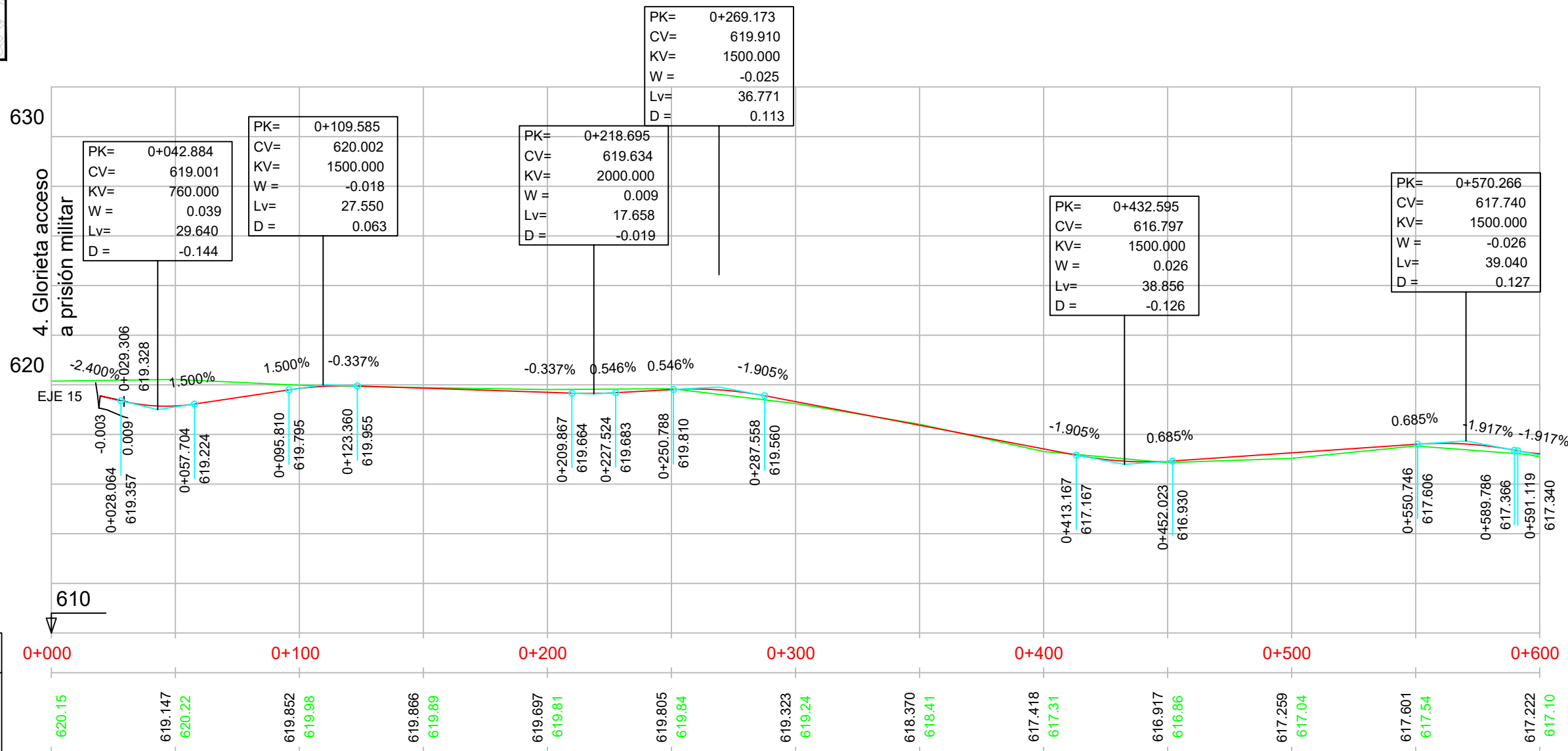
DIAGRAMA DE CURVATURAS
RECTA
R=100
R=400
R=160
R=250
R=3500
R=50
R=1000
R=1000

DIAGRAMA DE PERALTES
BD:2.00%
BI:2.00%

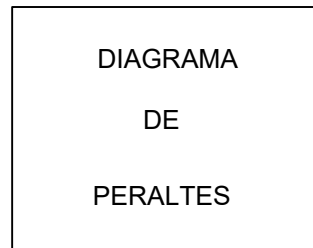
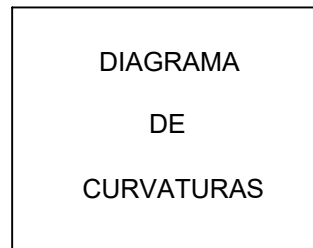


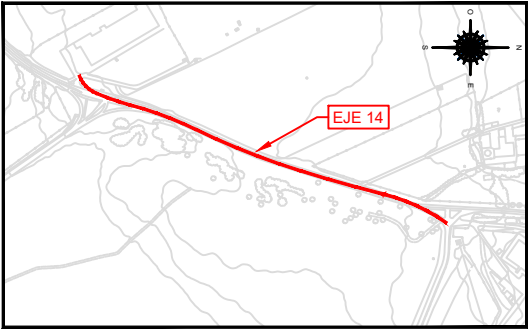
EJE 14  
PK 0+000 - 0+600

**LEYENDA**  
— RASANTE  
— TERRENO



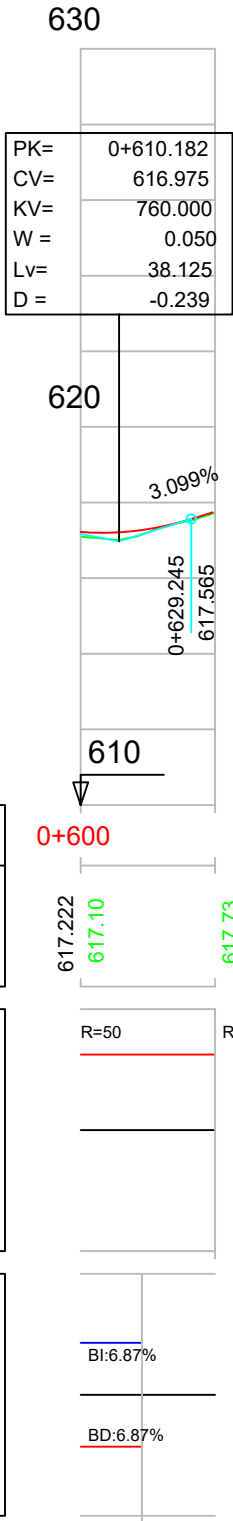
P.K.		
COTAS	RASANTE	TERRENO



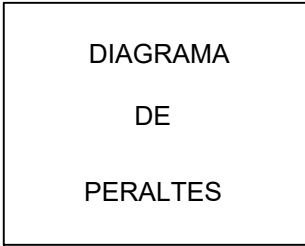
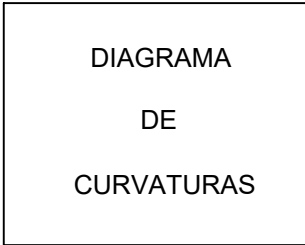


EJE 14  
PK 0+600 - 0+635.55

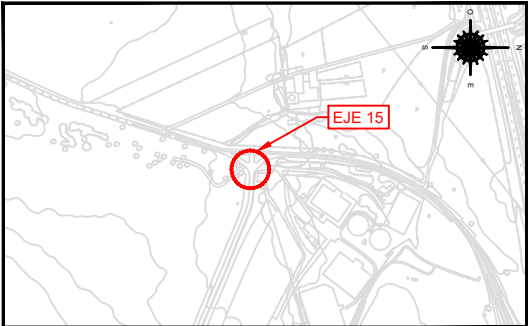
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO
	617.222	617.10







LEYENDA

RASANTE

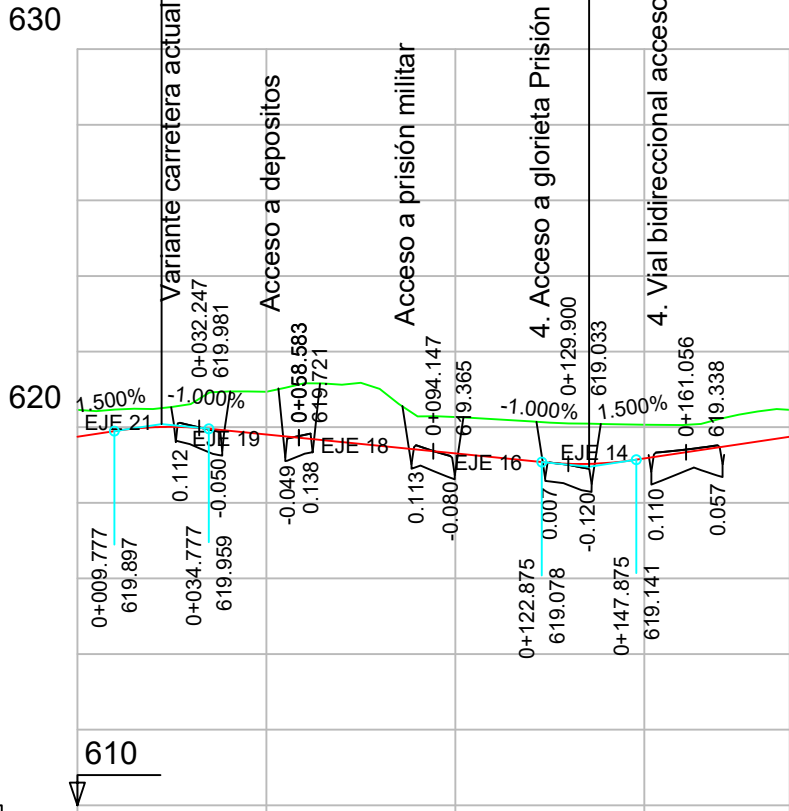
TERRENO

PK=	0+022.277
CV=	620.084
KV=	1000.000
W =	-0.025
Lv=	25.000
D =	0.078

PK=	0+135.375
CV=	618.953
KV=	1000.000
W =	0.025
Lv=	25.000
D =	-0.078

EJE 15

PK 0+000 - 0+188.50



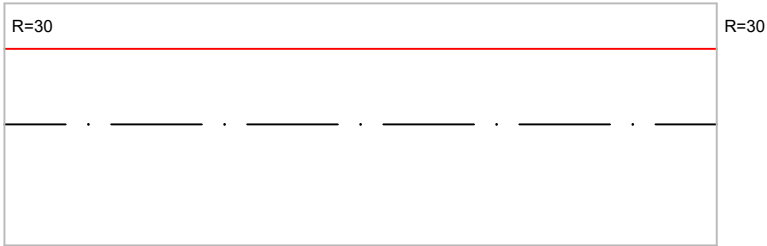
P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100			
619.750	619.807	619.307	619.173	619.750
620.46	620.94	620.27	620.07	620.46

DIAGRAMA

DE

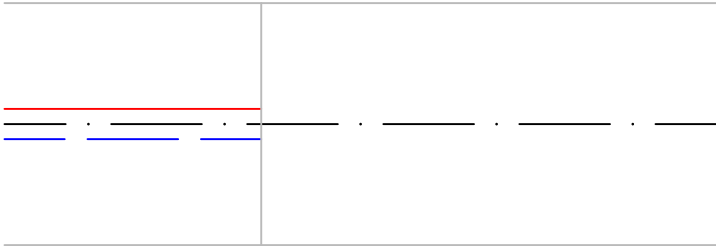
CURVATURAS

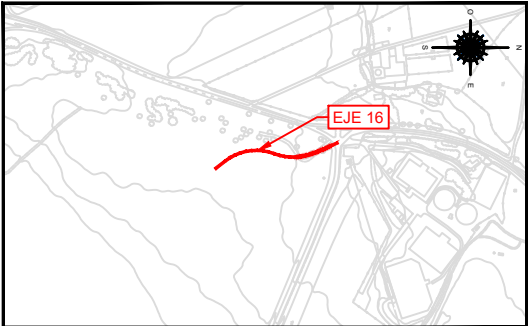


DIAGRAMA

DE

PERALTES



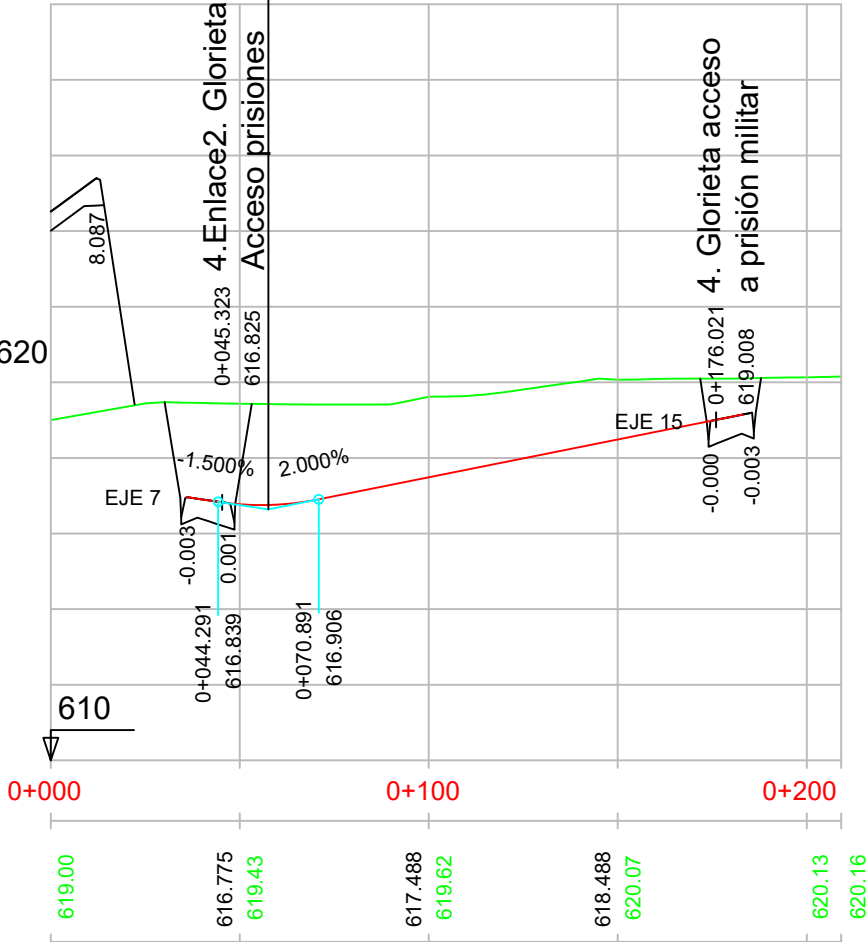


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 16  
PK 0+000 - 0+209.13

PK=	0+057.591
CV=	616.640
KV=	760.000
W =	0.035
Lv=	26.600
D =	-0.116

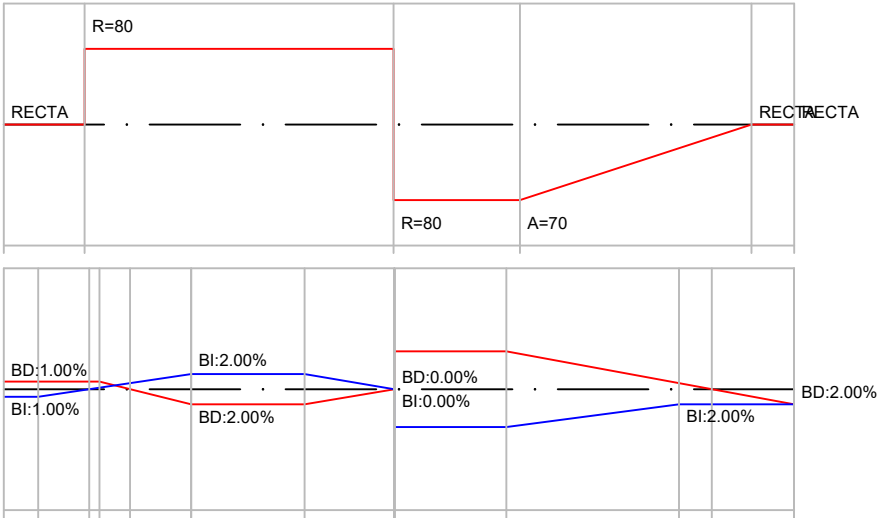
4. TRONCO PRINCIPAL

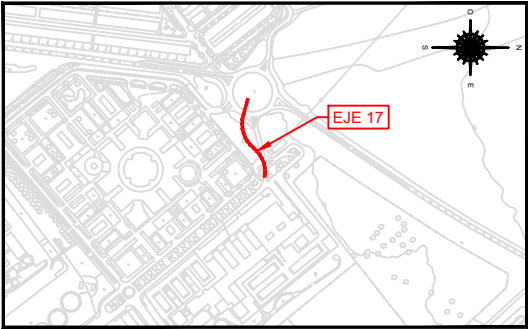


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS	

DIAGRAMA DE PERALTES	



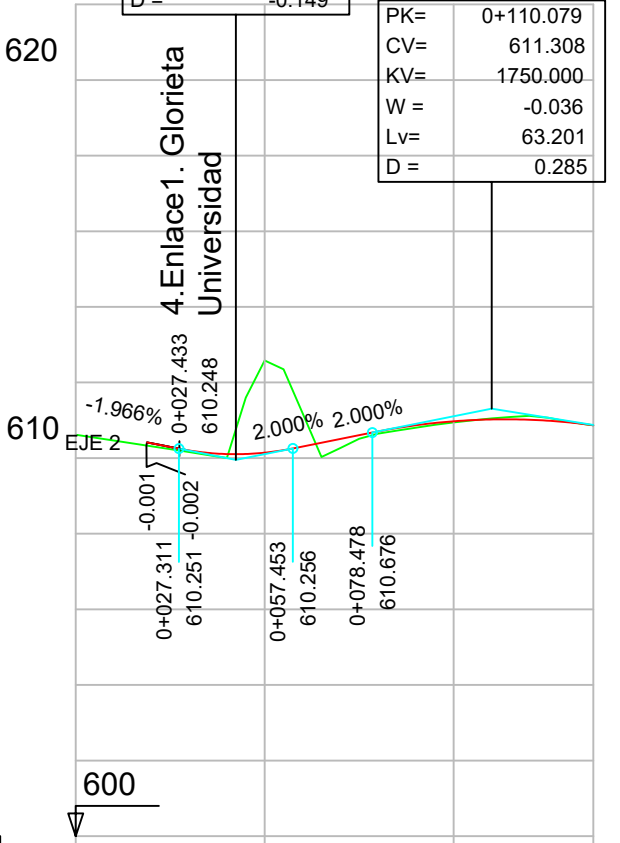


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 17  
PK 0+000 - 0+136.94

PK=	0+042.382
CV=	609.954
KV=	760.000
W =	0.040
Lv=	30.141
D =	-0.149

PK=	0+110.079
CV=	611.308
KV=	1750.000
W =	-0.036
Lv=	63.201
D =	0.285



P.K.		
COTAS	RASANTE	TERRENO

0+000				0+100
610.62	610.143	612.58	610.974	610.869
			610.94	610.87

DIAGRAMA  
DE  
CURVATURAS

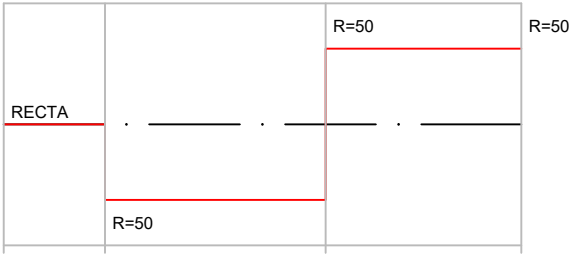
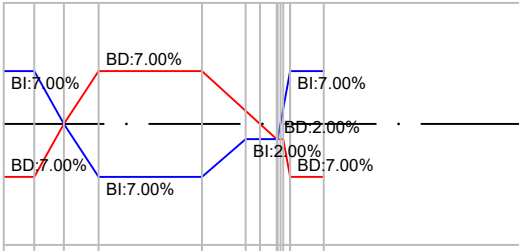


DIAGRAMA  
DE  
PERALTES

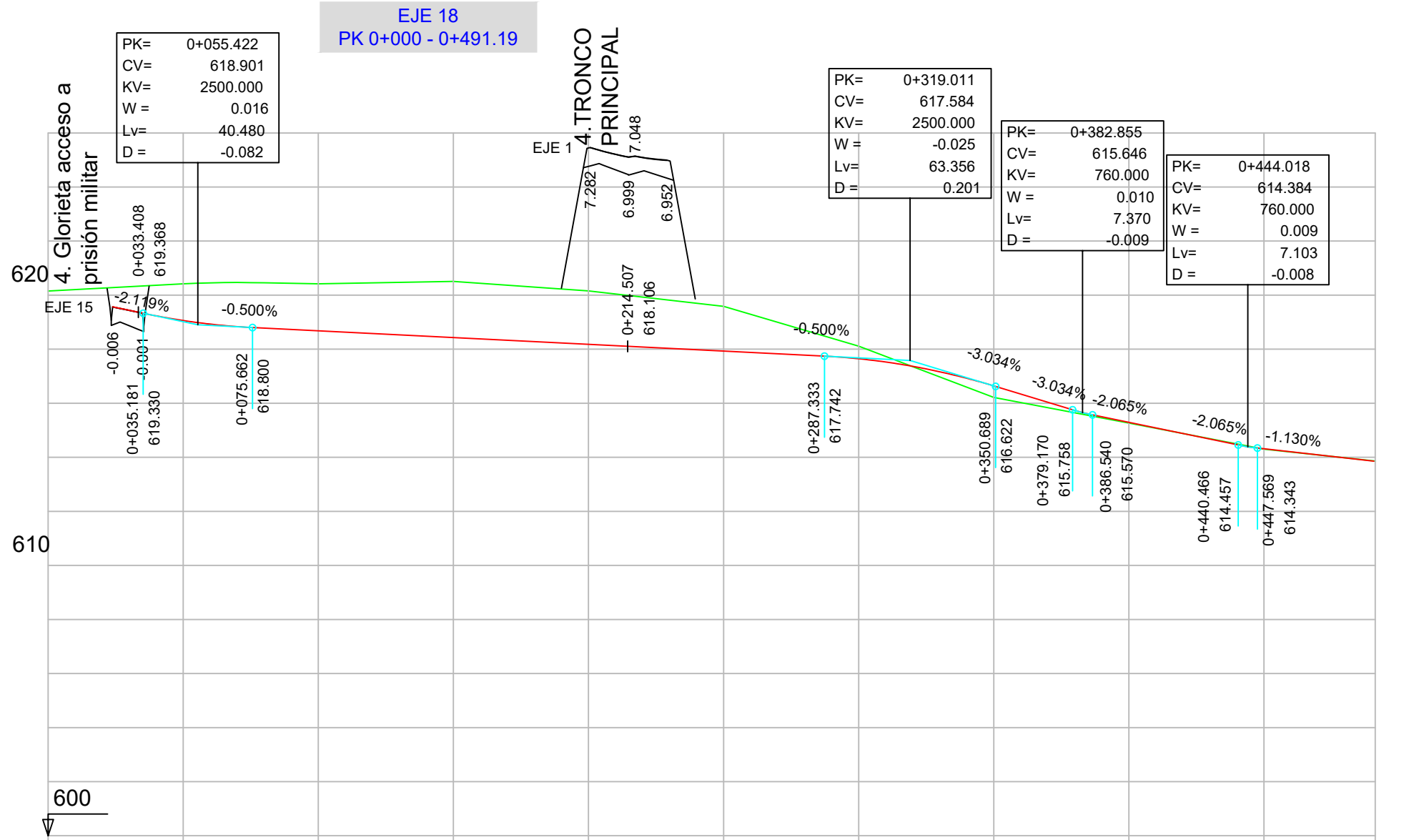




**LEYENDA**

— RASANTE

— TERRENO



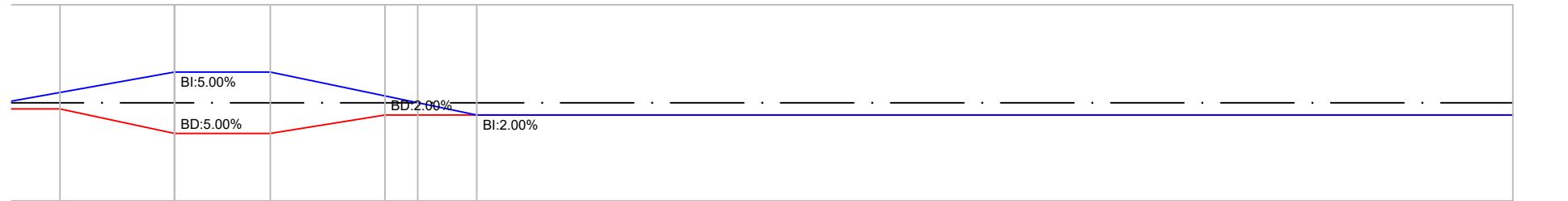
P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200	0+300	0+400
620.15	619.060 620.42	618.679 620.42	618.429 620.51	618.179 620.15
			617.929 619.59	617.646 618.11
			616.643 616.22	615.292 615.27
				614.316 614.30
				613.86

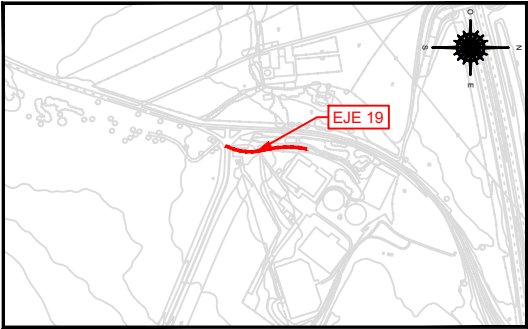
DIAGRAMA DE CURVATURAS



DIAGRAMA DE PERALTES

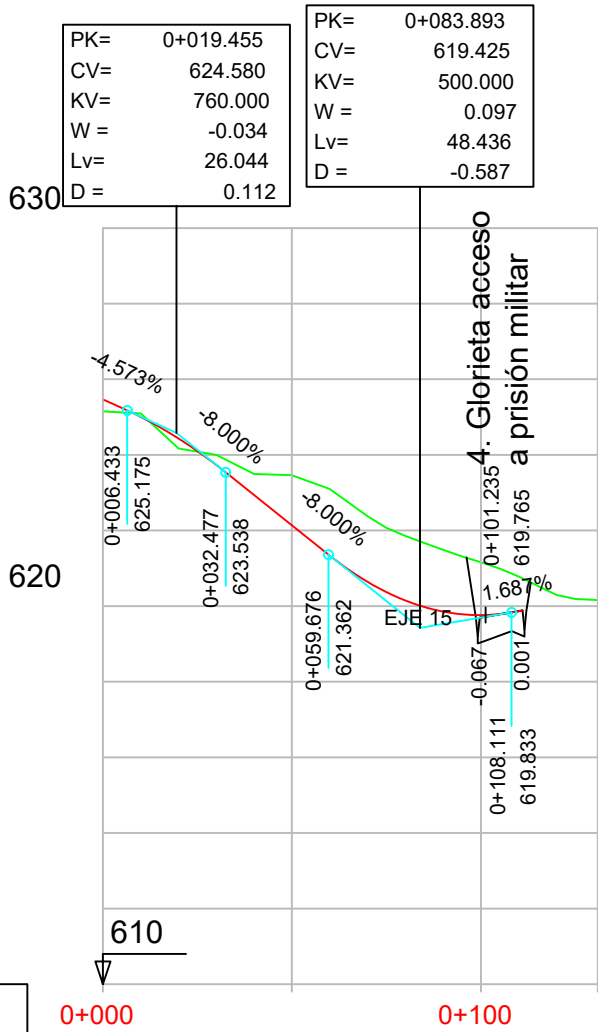




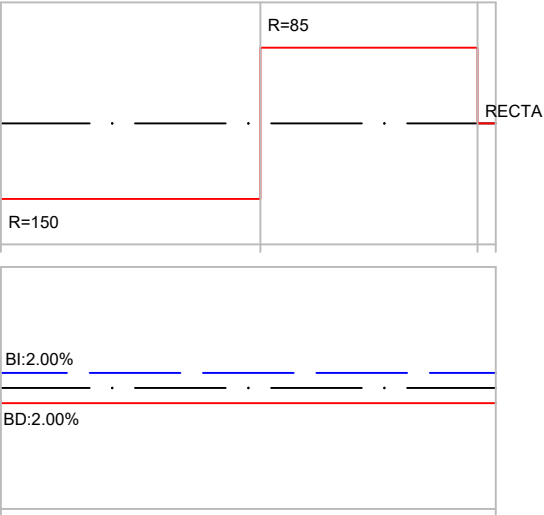
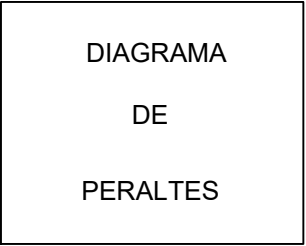
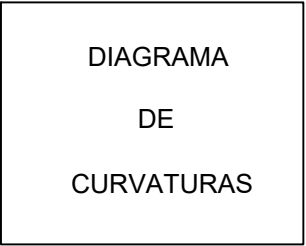


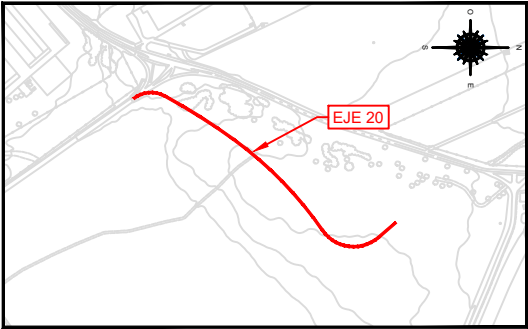
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 19  
PK 0+000 - 0+130.93



P.K.		
COTAS	RASANTE	TERRENO
	625.15	625.15
	622.136	623.46
	619.762	621.16
	620.16	620.16



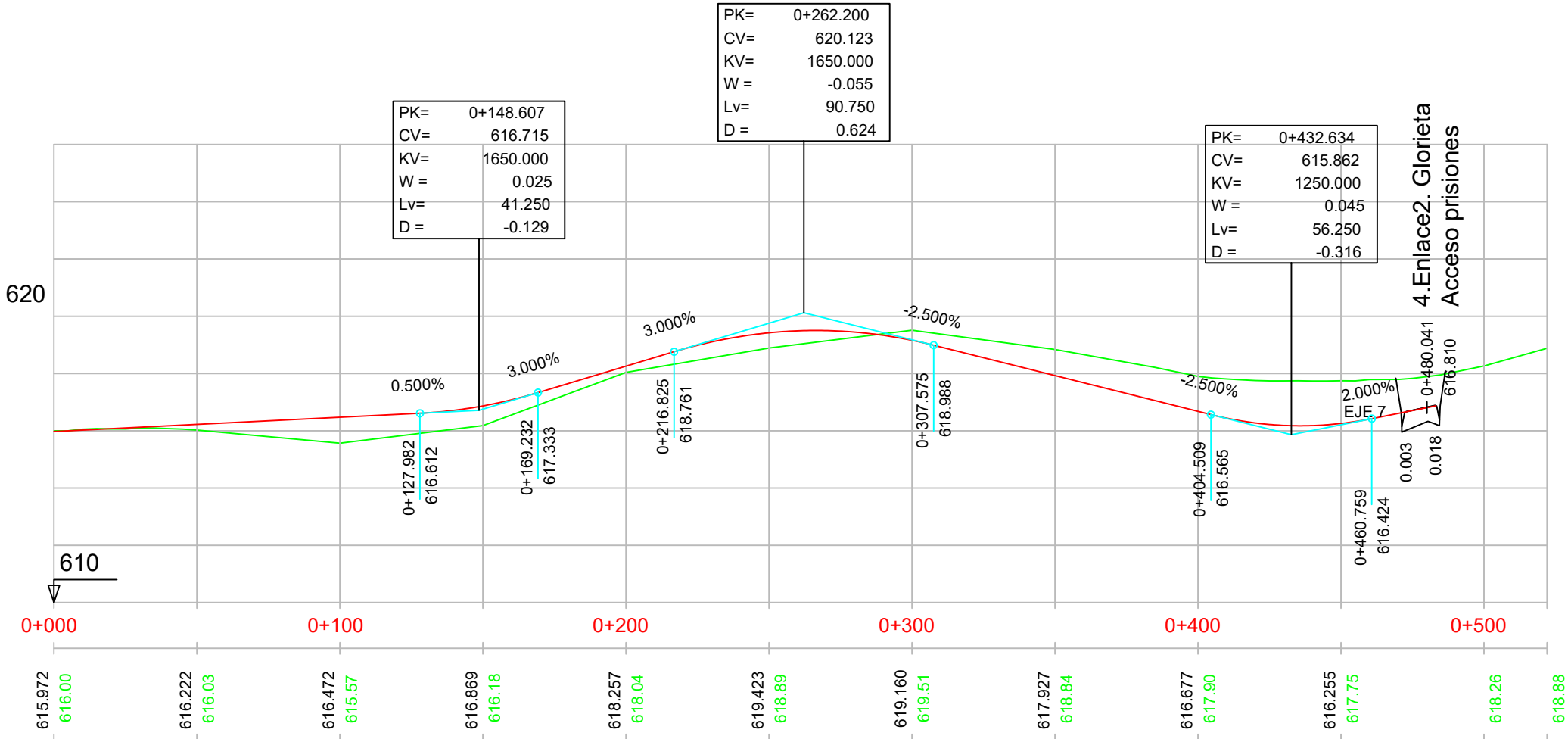


EJE 20  
PK 0+000 - 0+522.05

**LEYENDA**

RASANTE

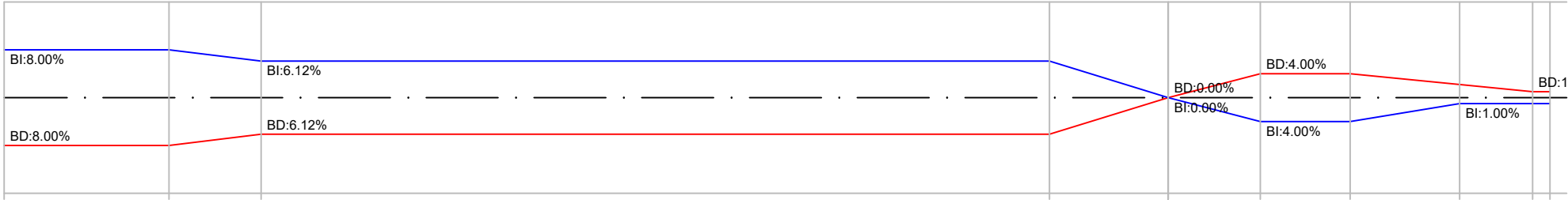
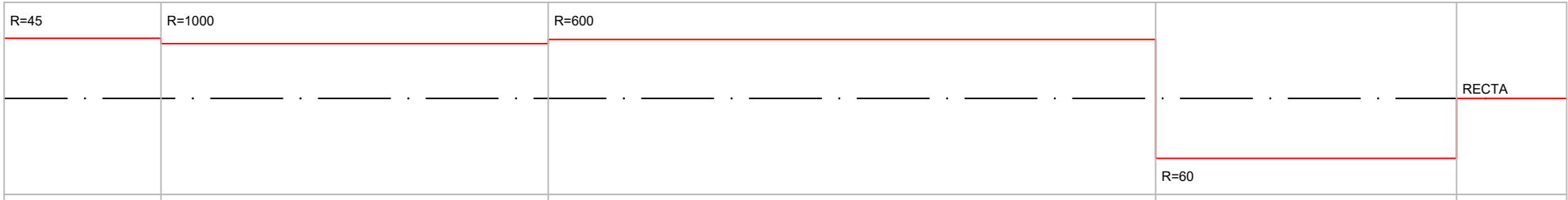
TERRENO

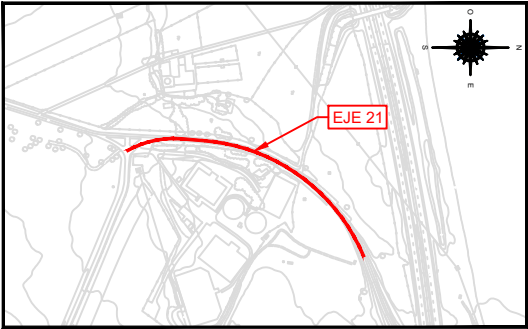


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS

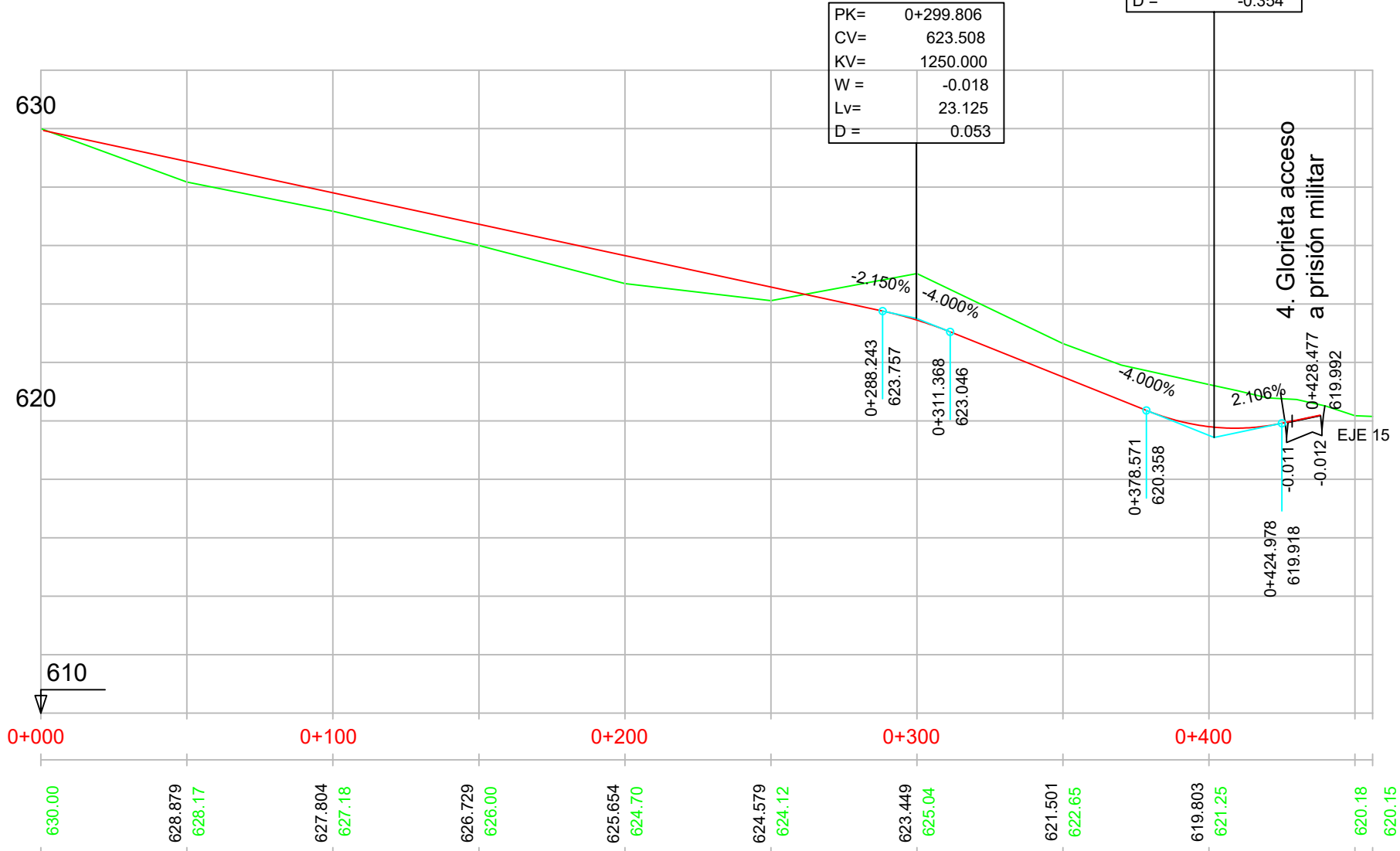
DIAGRAMA DE PERALTES





EJE 21  
PK 0+000 - 0+456.04

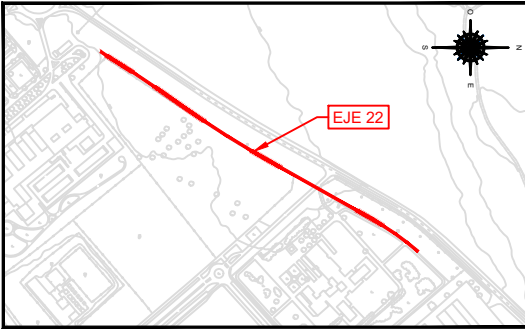
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

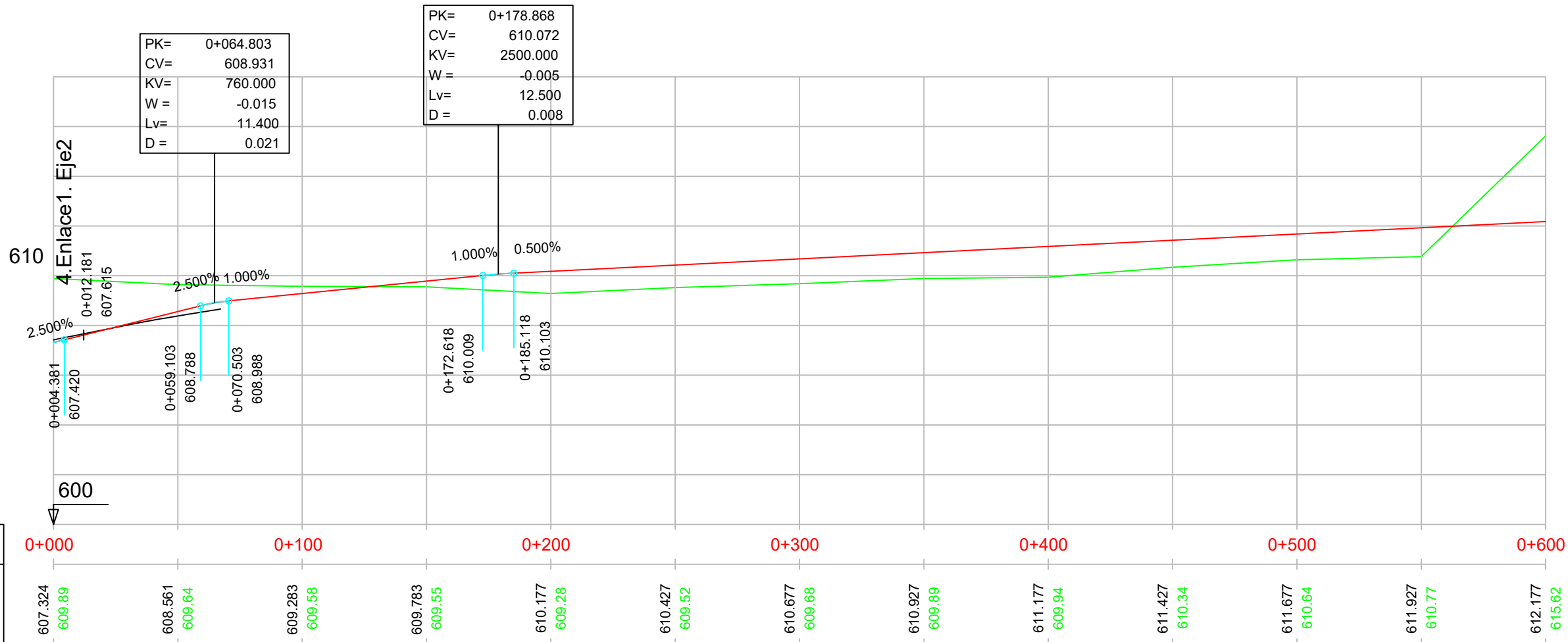
DIAGRAMA DE CURVATURAS
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DIAGRAMA DE PERALTES
----------------------------

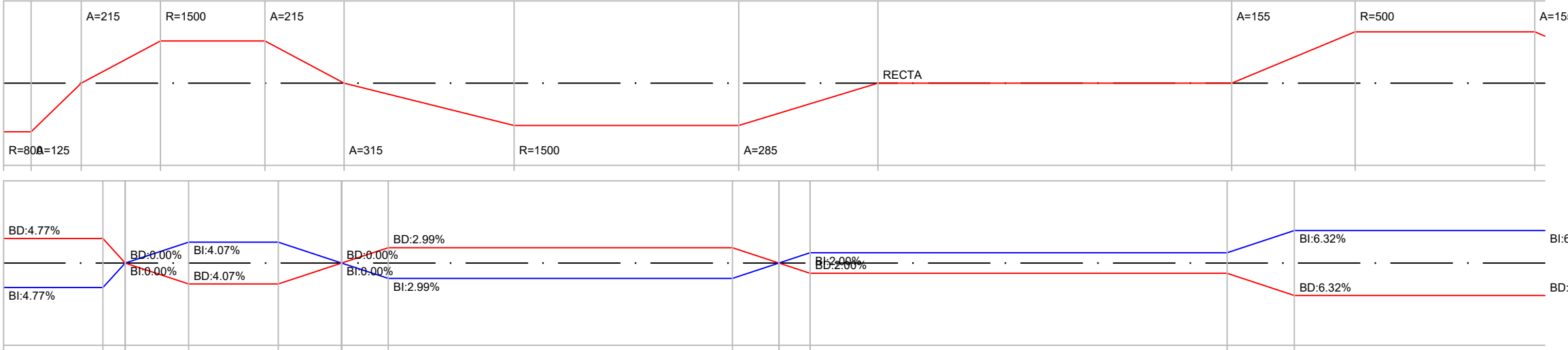
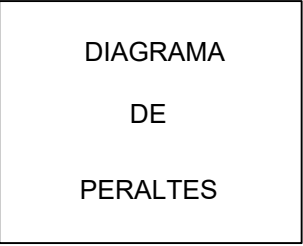
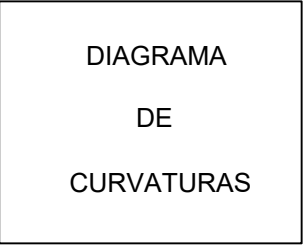


EJE 22  
PK 0+000 - 0+600

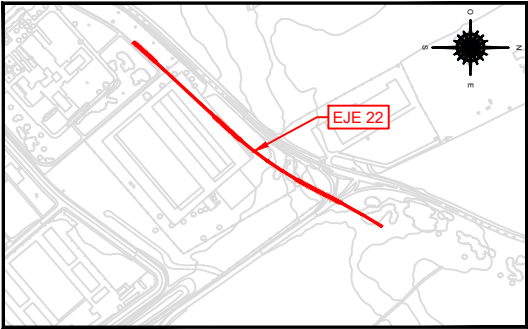
**LEYENDA**  
— RASANTE  
— TERRENO



P.K.	RASANTE	TERRENO
0+000	607.324	609.89
0+050	608.561	609.64
0+100	609.283	609.58
0+150	609.783	609.55
0+200	610.177	609.28
0+250	610.427	609.52
0+300	610.677	609.68
0+350	610.927	609.89
0+400	611.177	609.94
0+450	611.427	610.34
0+500	611.677	610.64
0+550	611.927	610.77
0+600	612.177	615.62





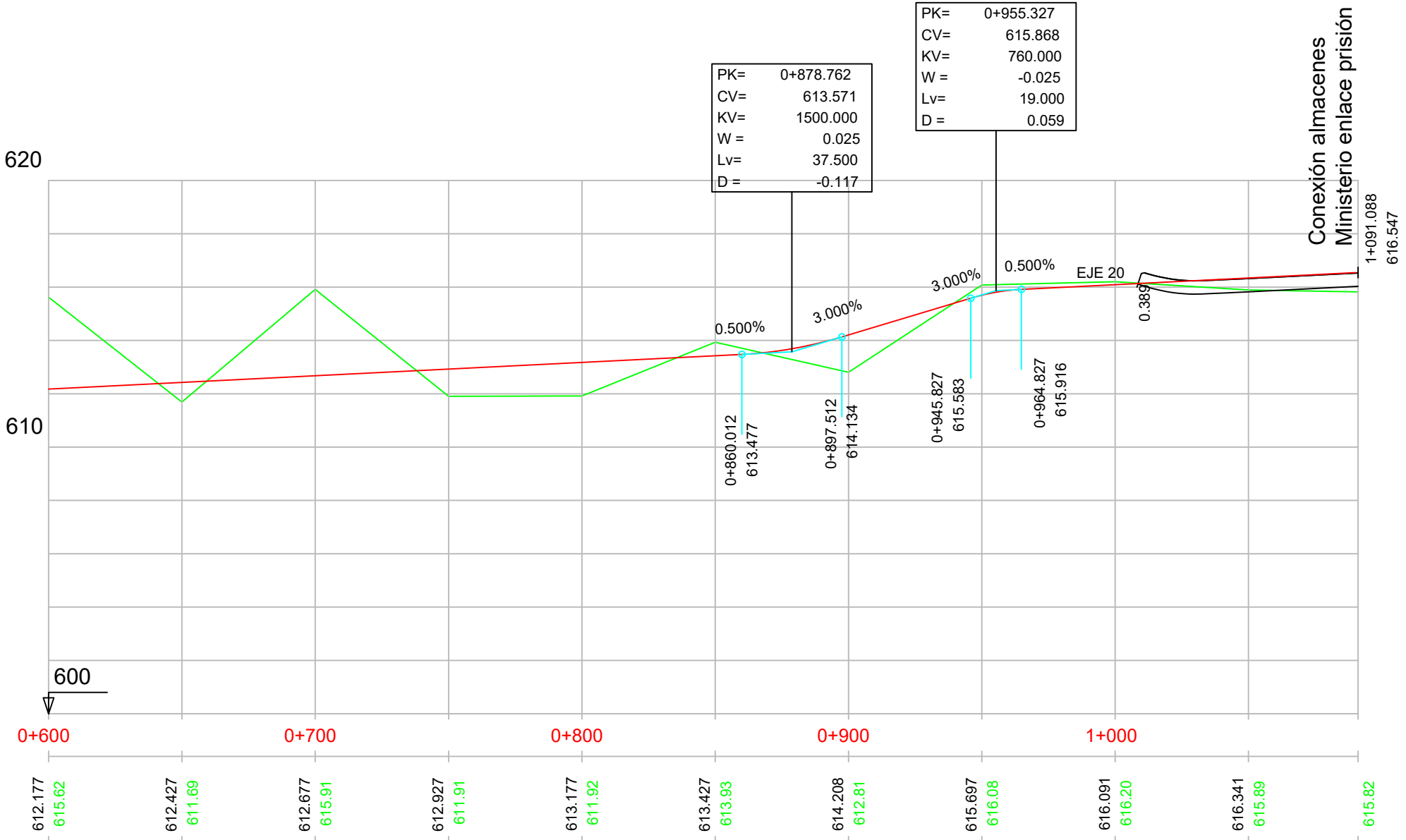


EJE 22  
PK 0+600 - 1+091.09

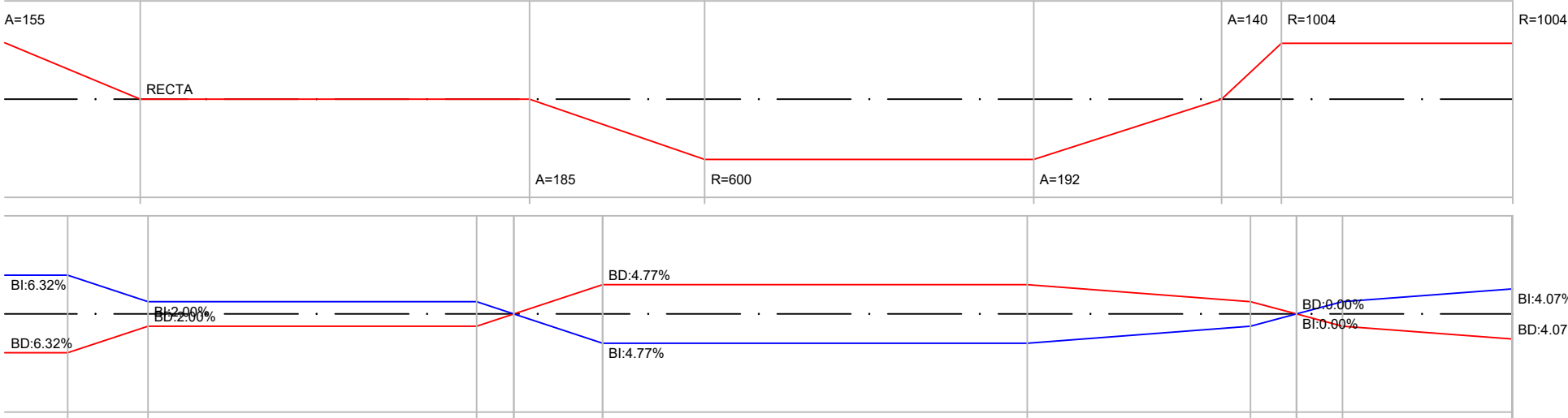
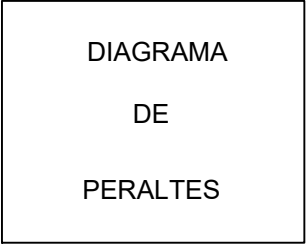
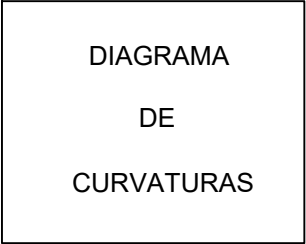
**LEYENDA**

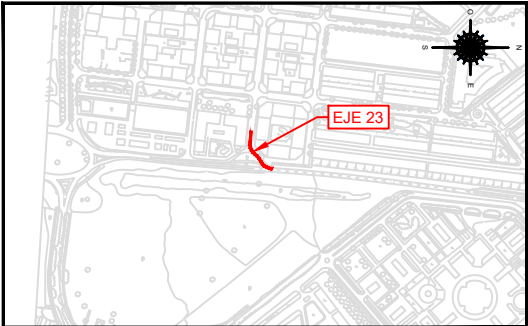
— RASANTE

— TERRENO



P.K.		
COTAS	RASANTE	TERRENO





LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

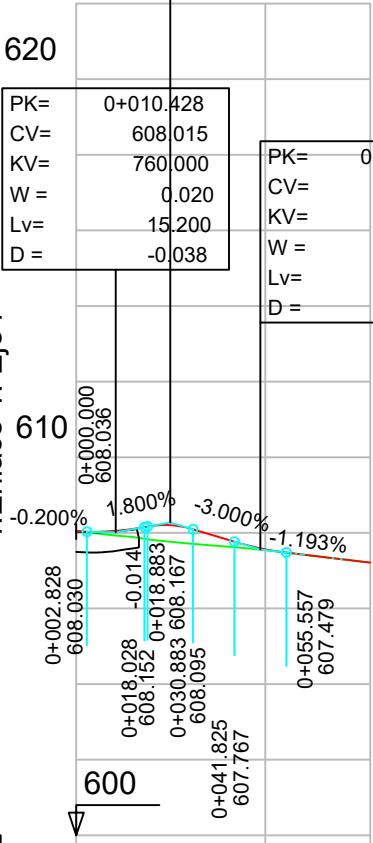
EJE 23  
PK 0+000 - 0+077.78

PK=	0+024.883
CV=	608.275
KV=	250.000
W =	-0.048
Lv=	12.000
D =	0.072

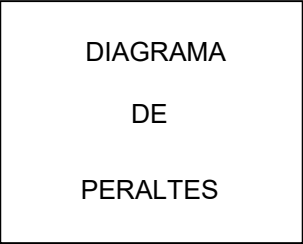
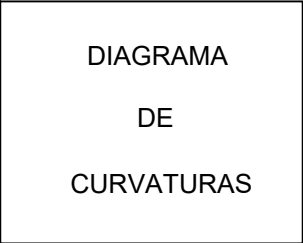
PK=	0+010.428
CV=	608.015
KV=	760.000
W =	0.020
Lv=	15.200
D =	-0.038

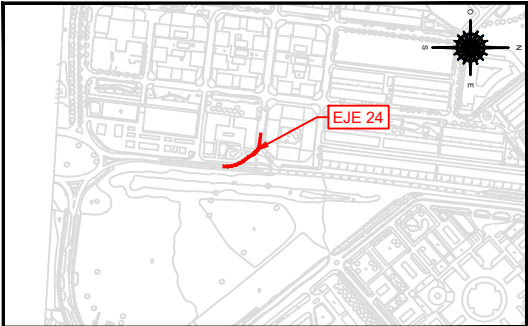
PK=	0+048.691
CV=	607.561
KV=	760.000
W =	0.018
Lv=	13.732
D =	-0.031

4. Enlace 1. Eje4



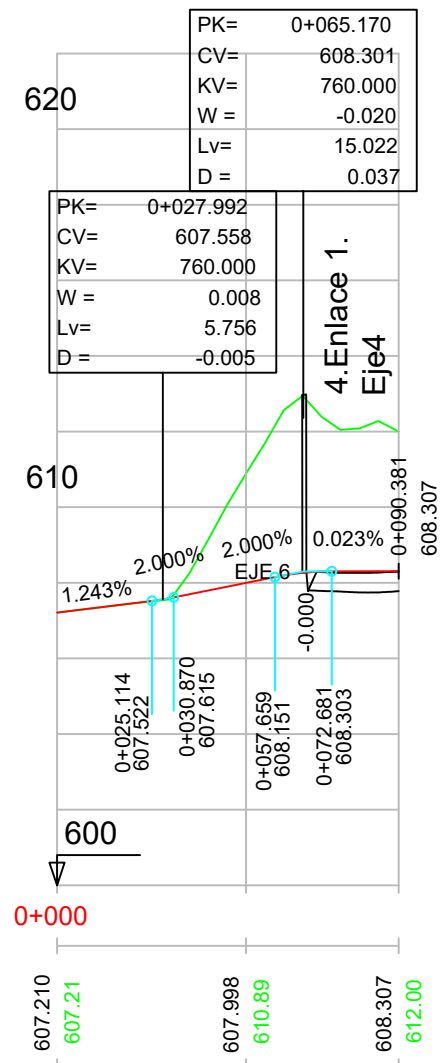
P.K.		
COTAS	RASANTE	TERRENO
	608.036	608.02
	607.565	607.54
	607.212	607.21





EJE 24  
PK 0+000 - 0+090.38

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

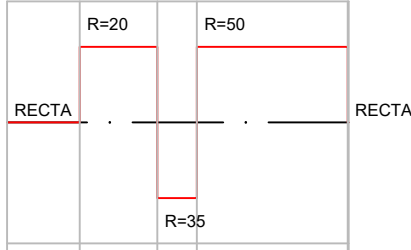
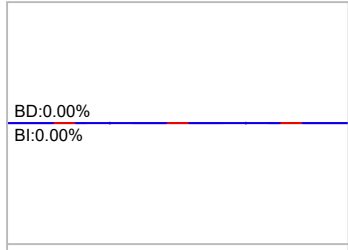
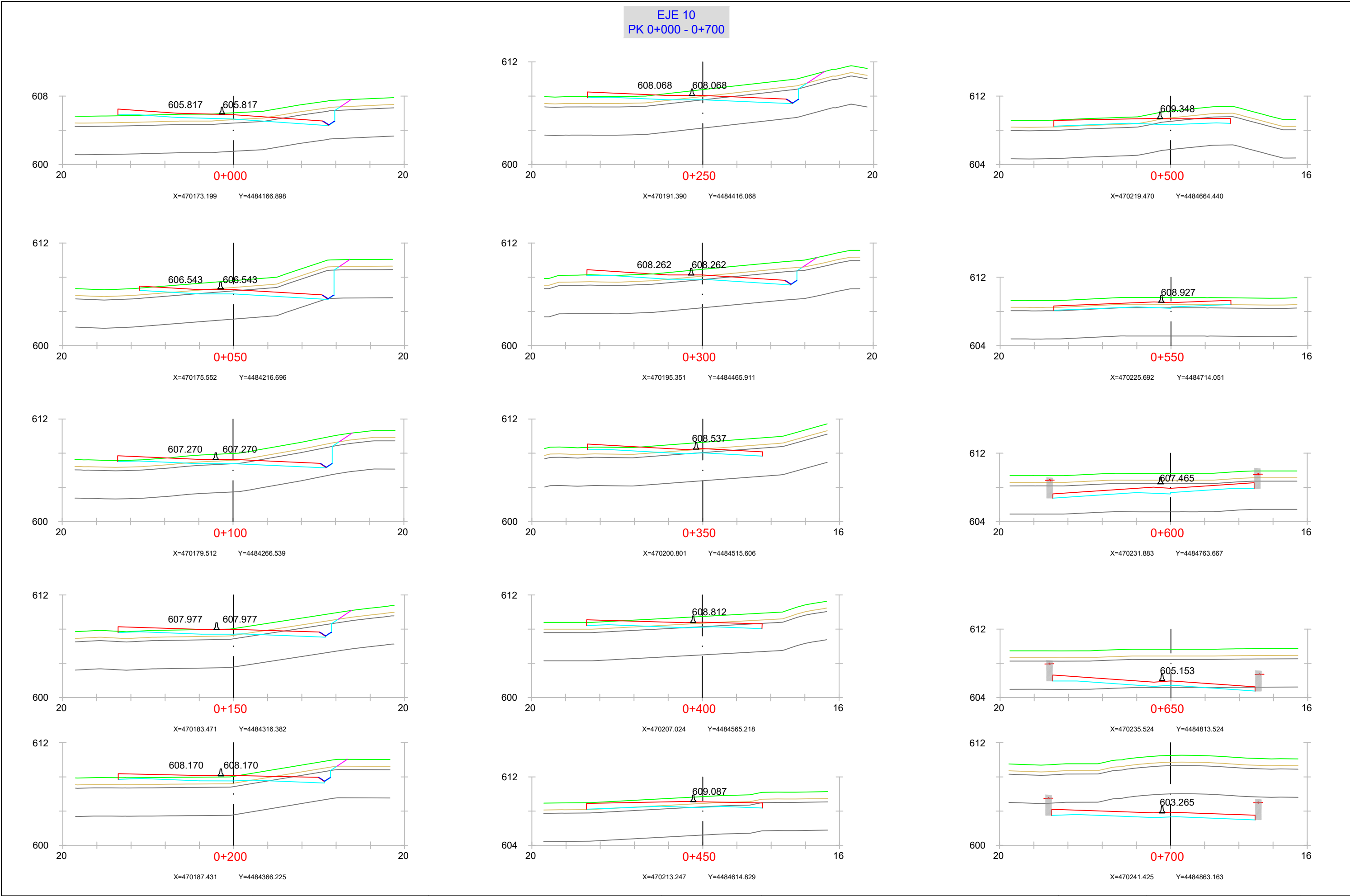
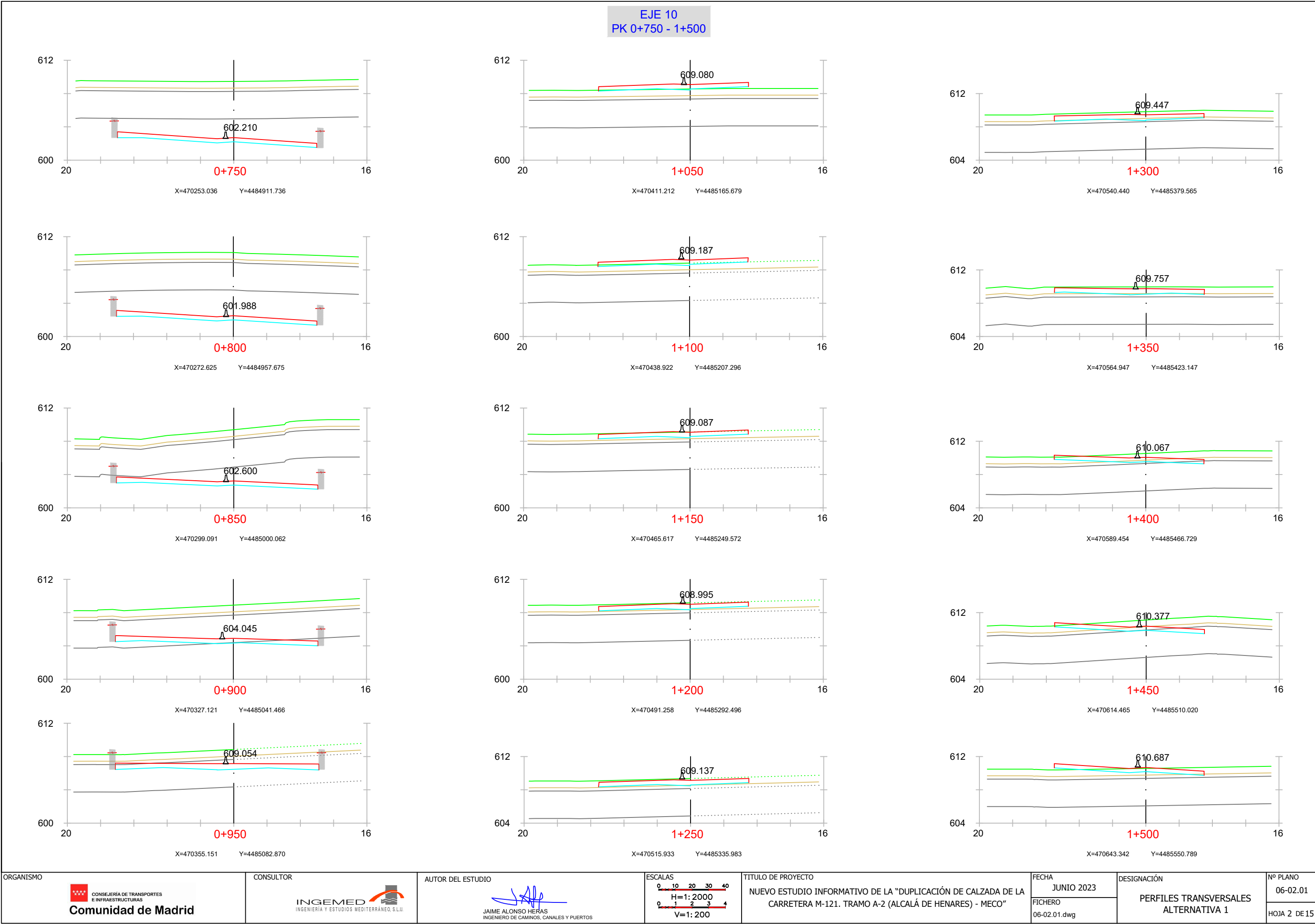


DIAGRAMA  
DE  
PERALTES

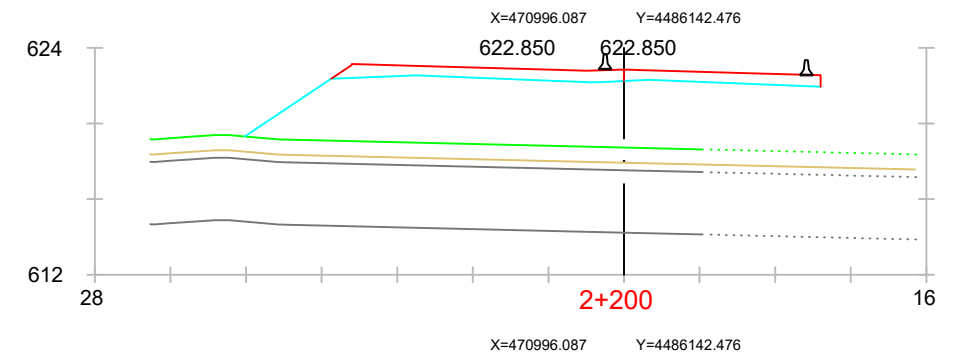
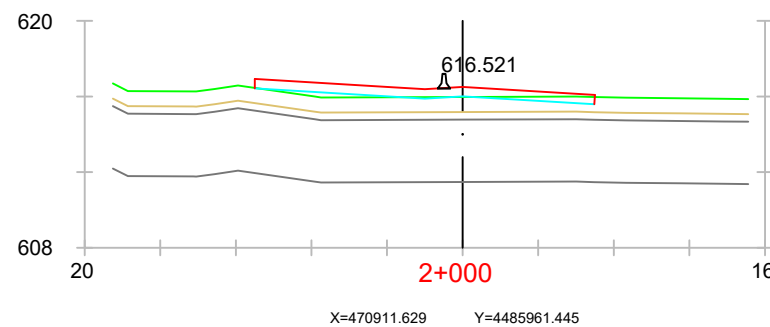
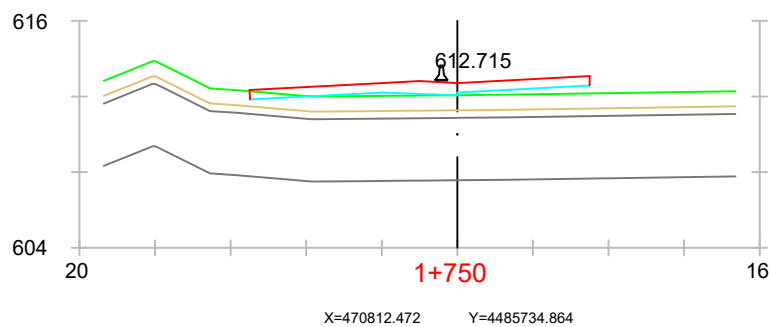
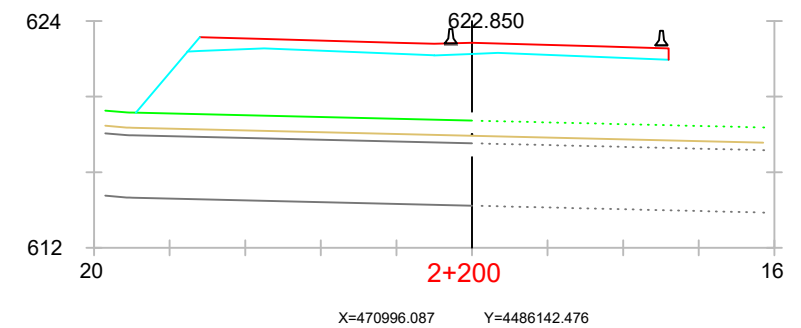
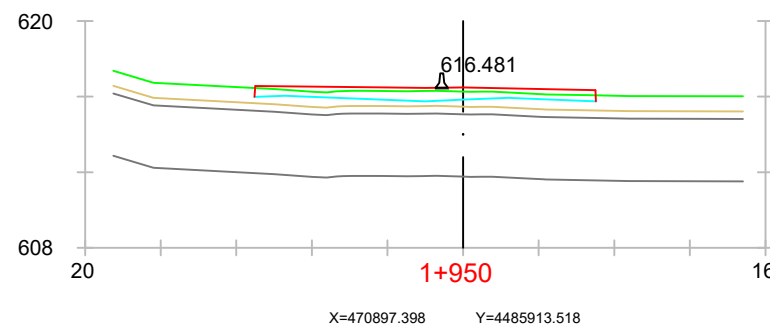
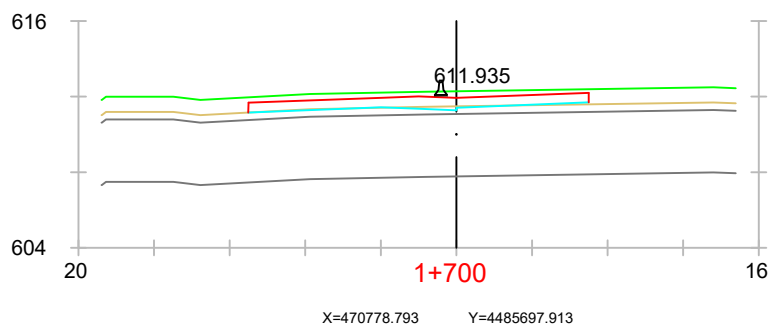
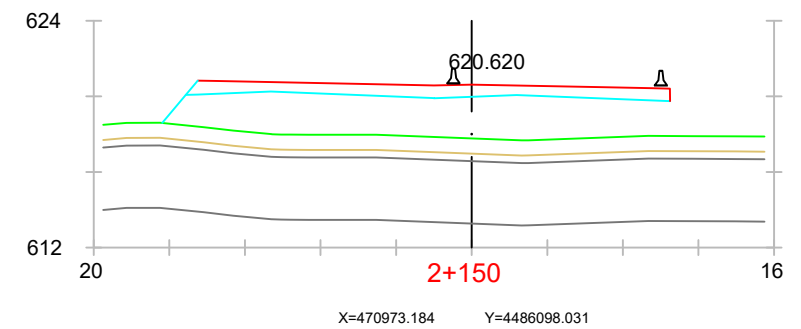
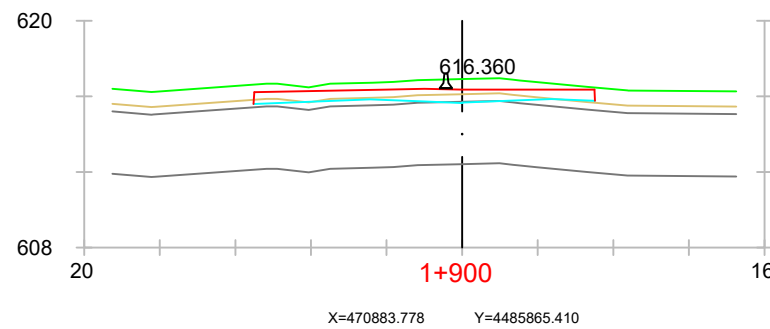
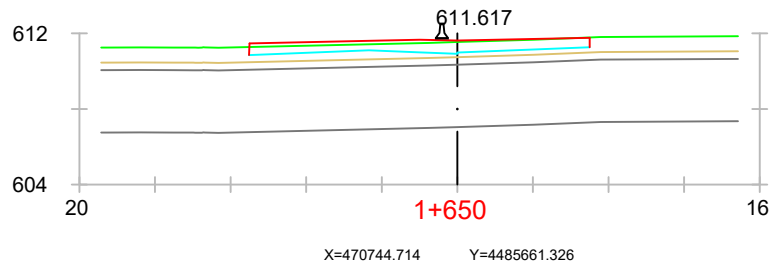
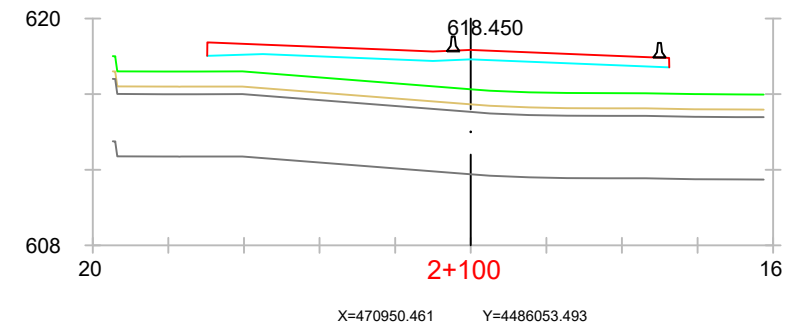
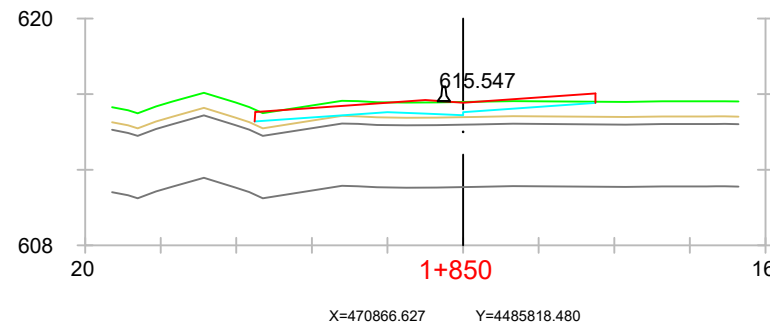
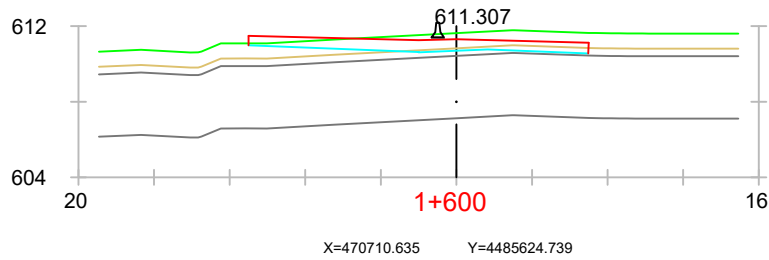
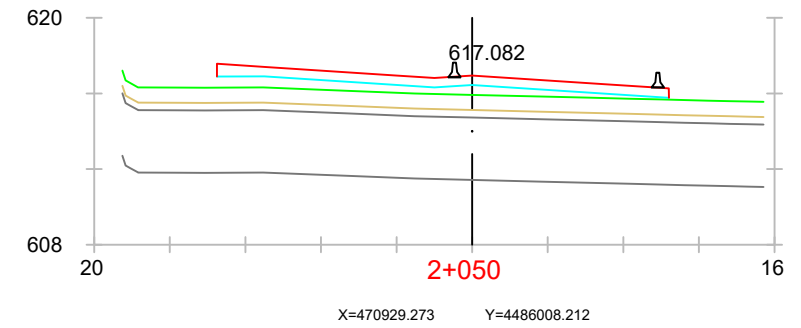
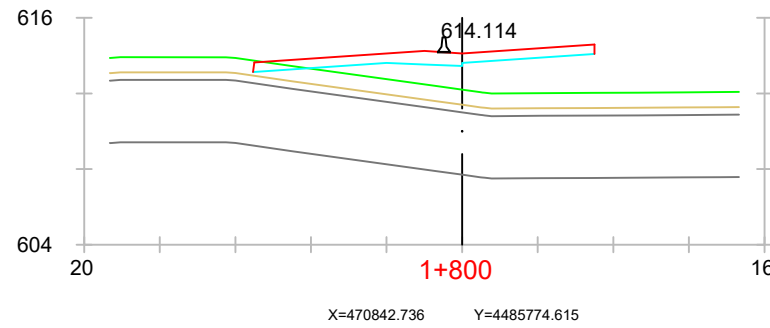
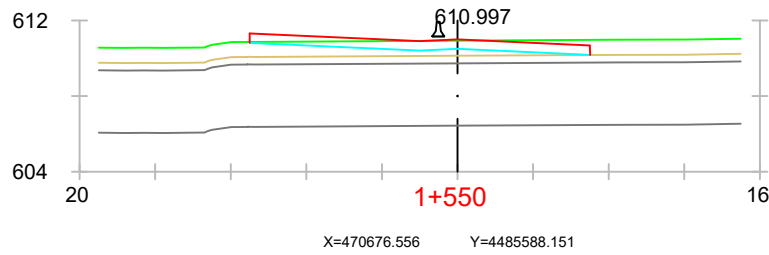




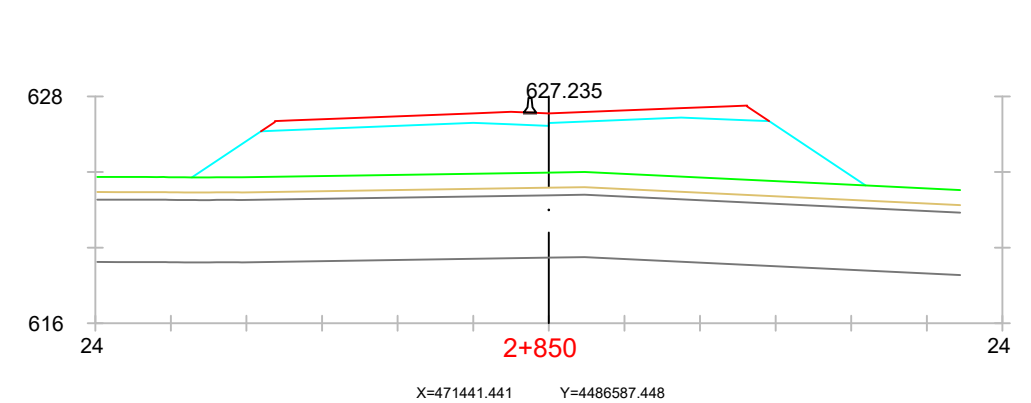
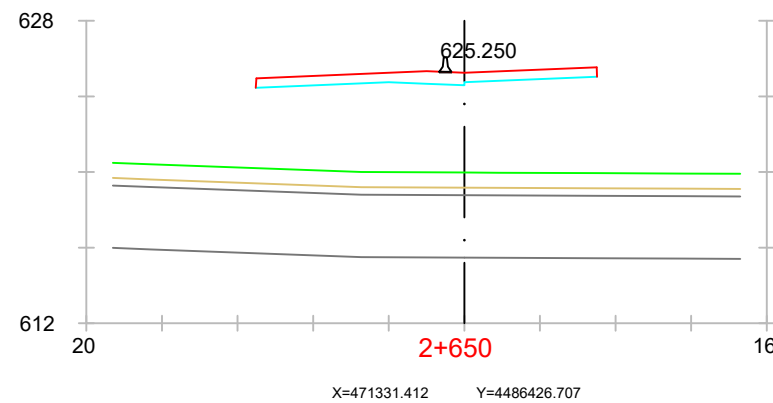
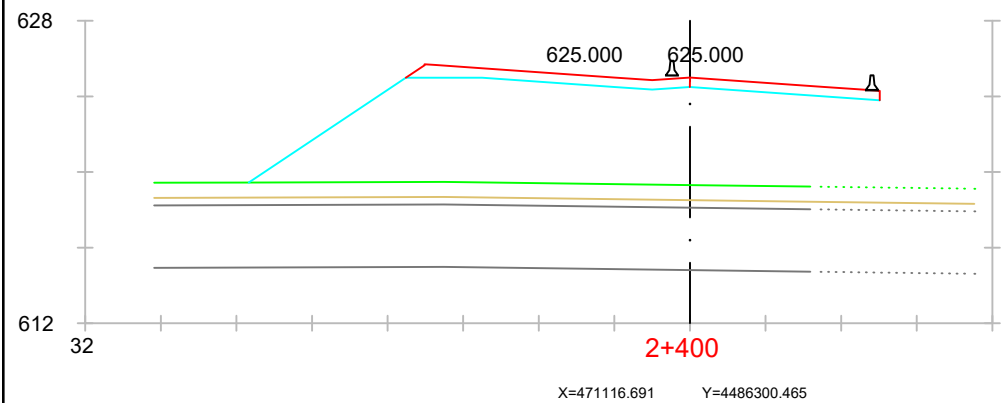
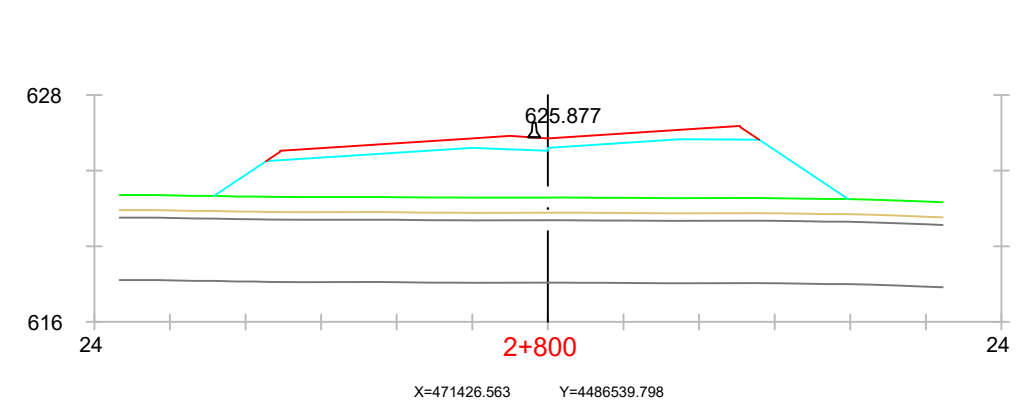
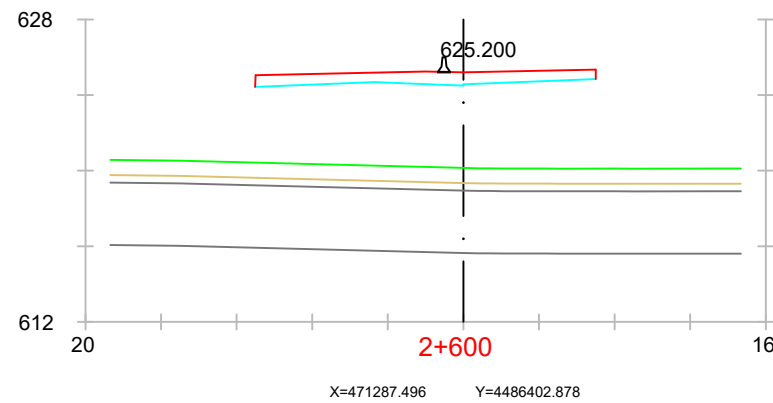
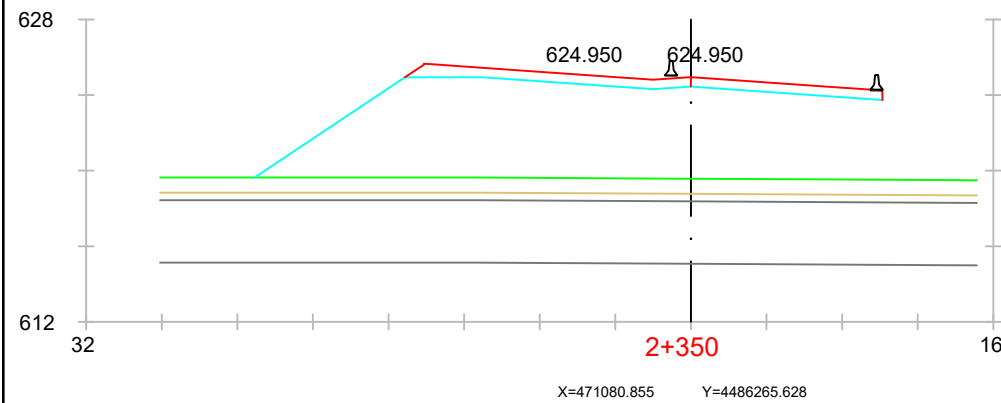
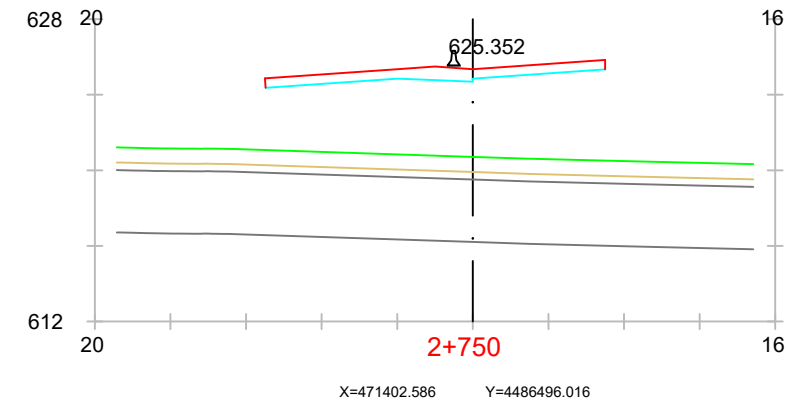
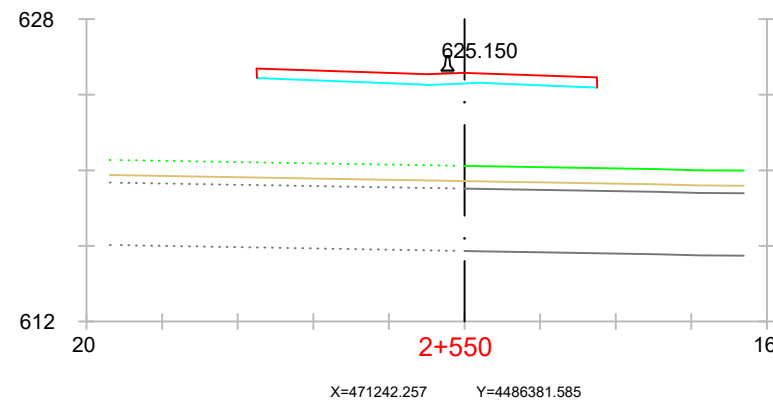
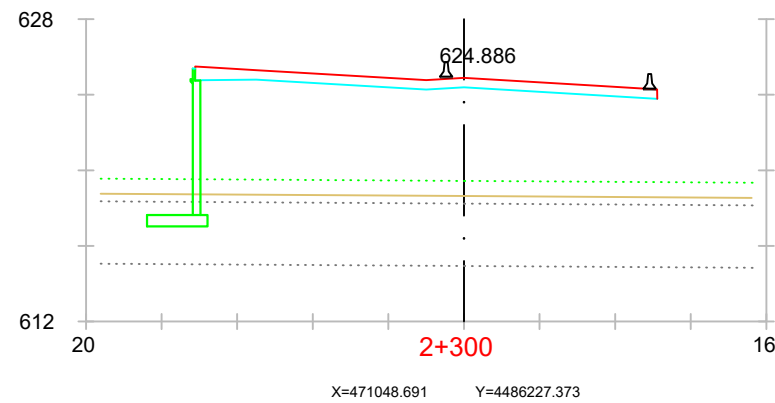
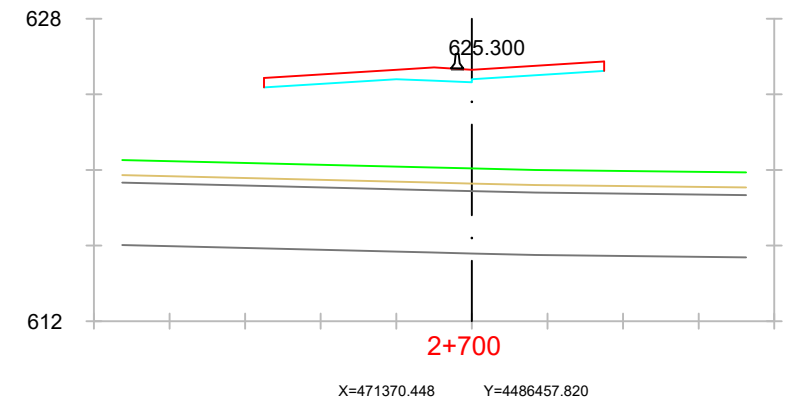
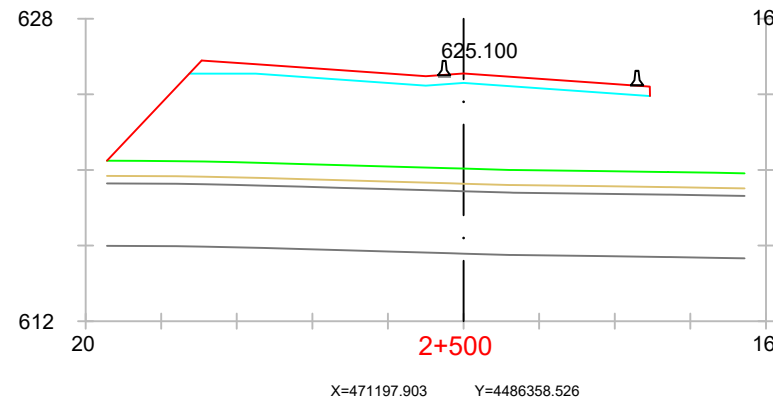
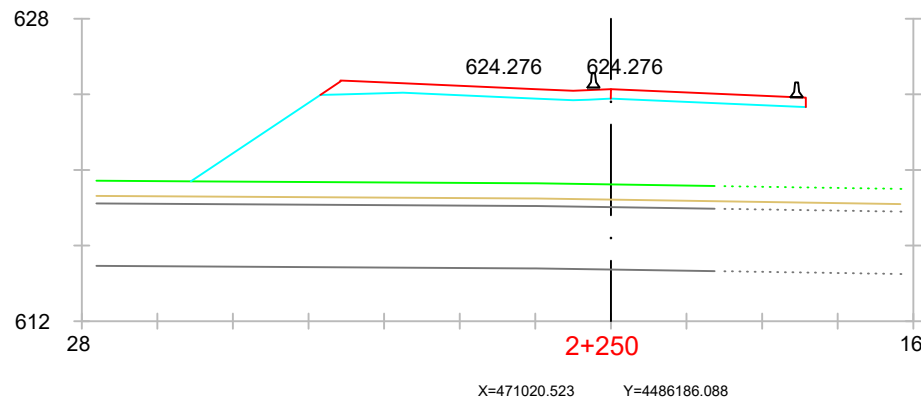




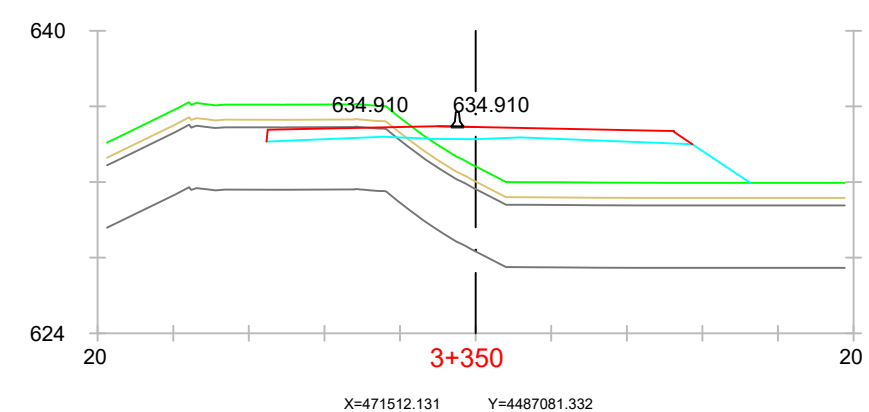
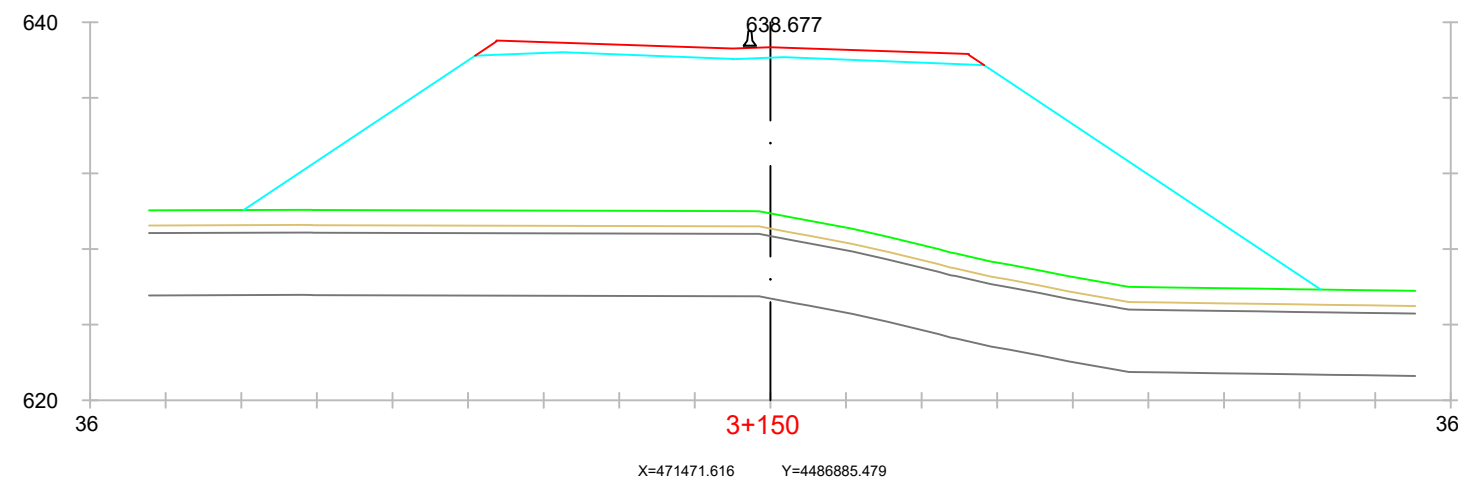
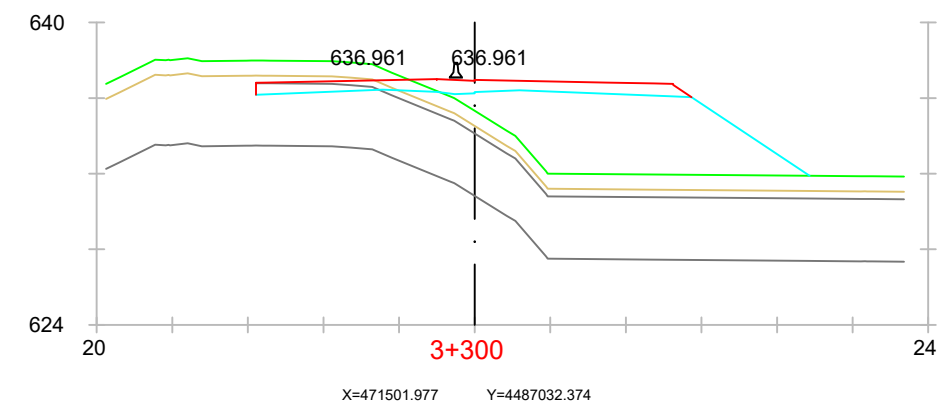
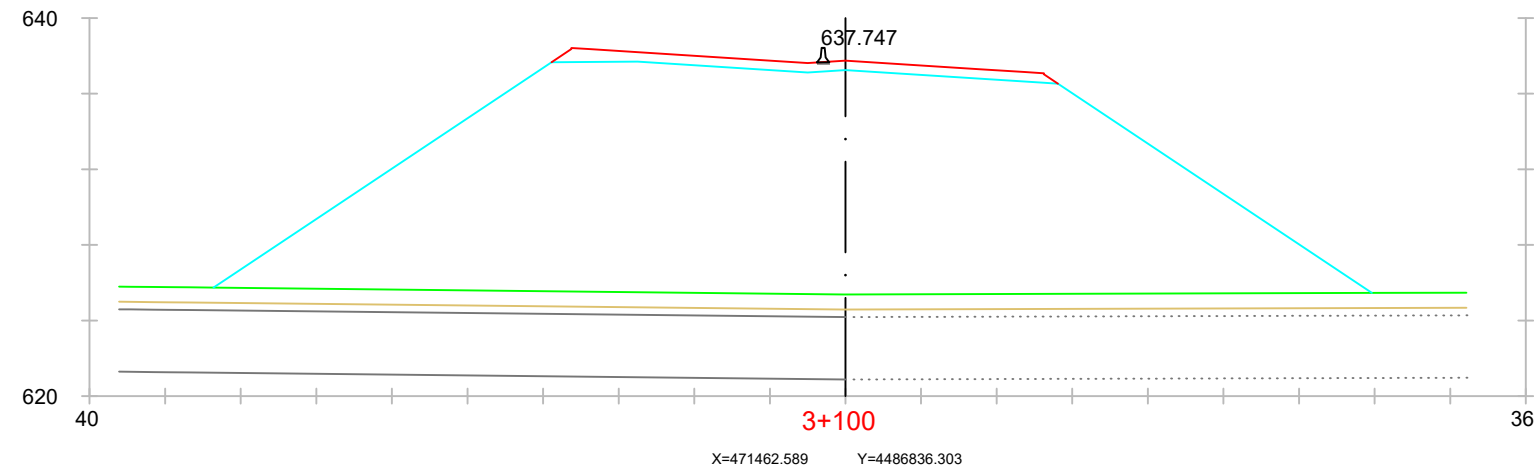
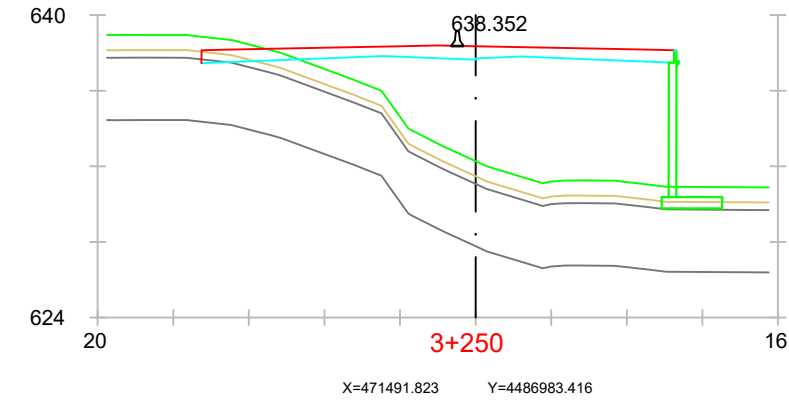
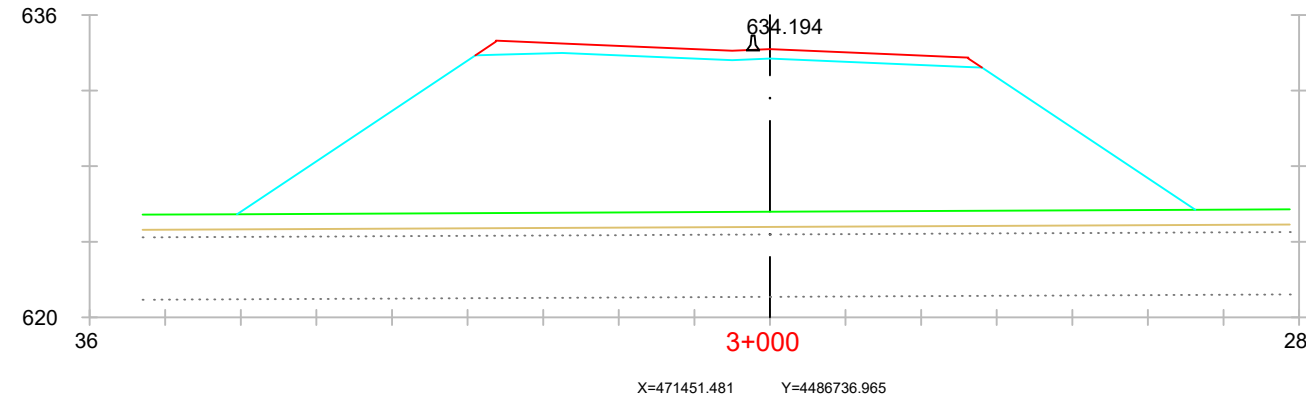
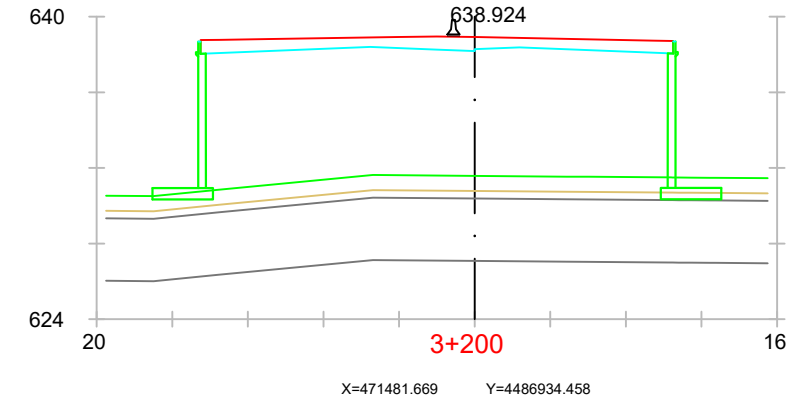
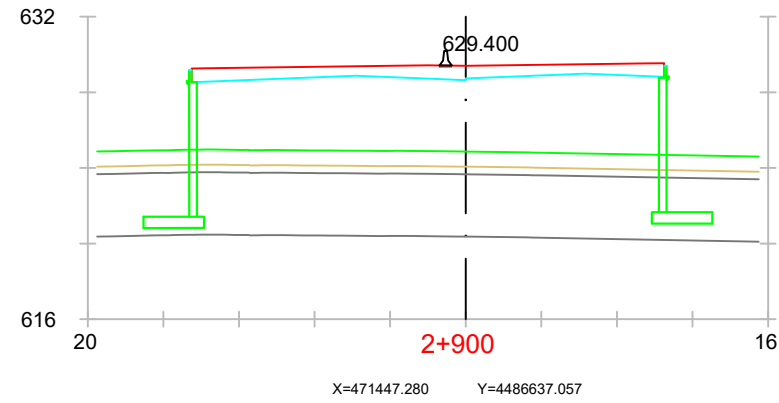
EJE 10  
PK 1+550 - 2+200



EJE 10  
PK 2+250 - 2+850

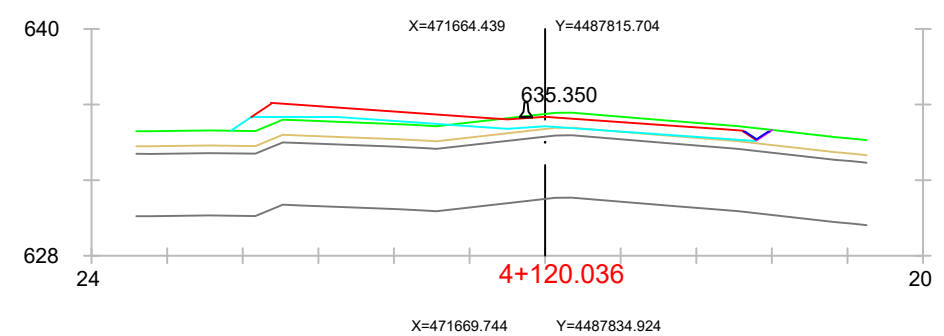
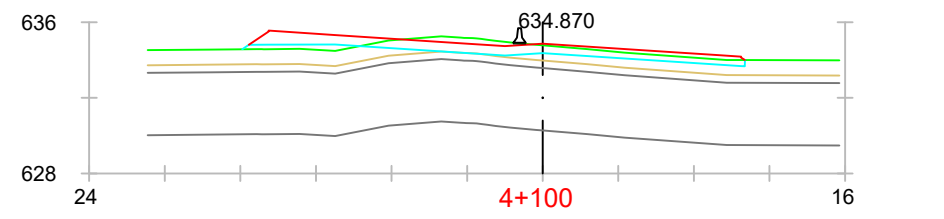
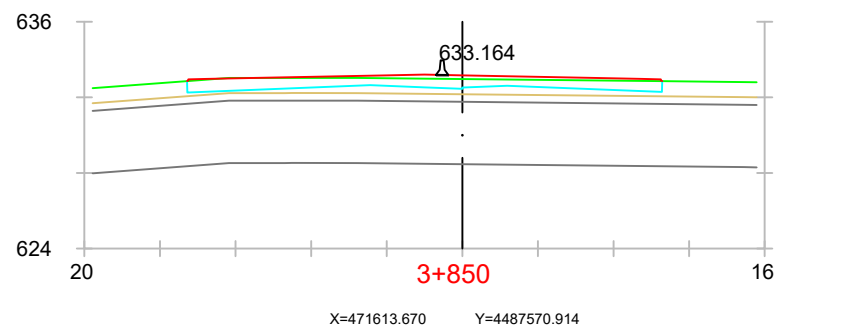
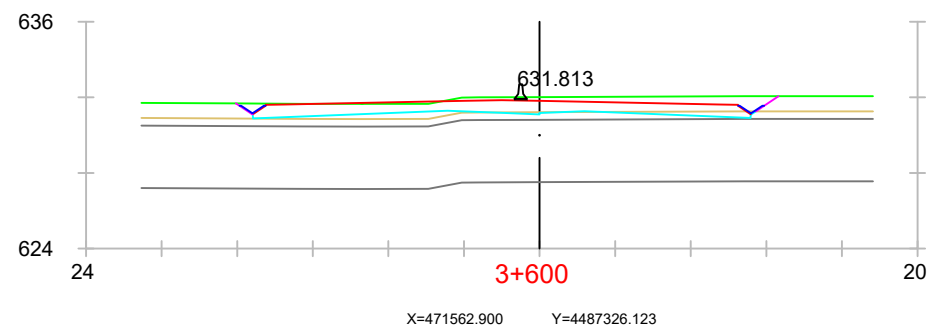
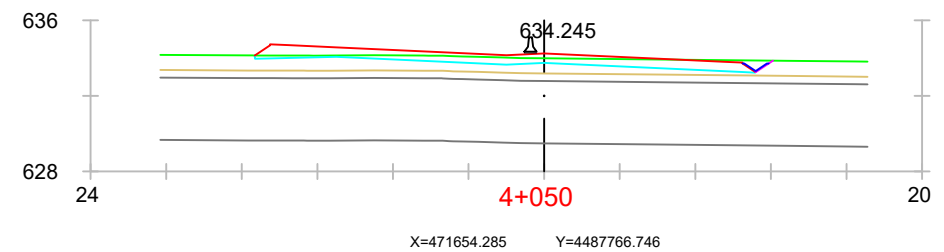
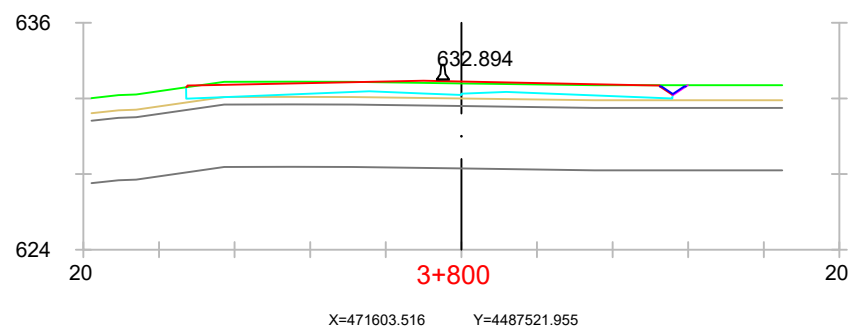
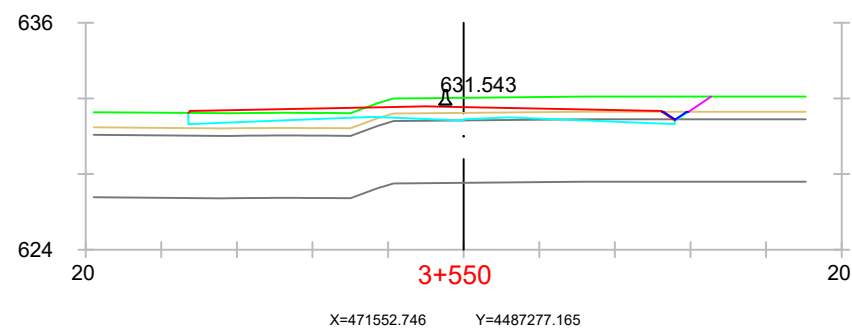
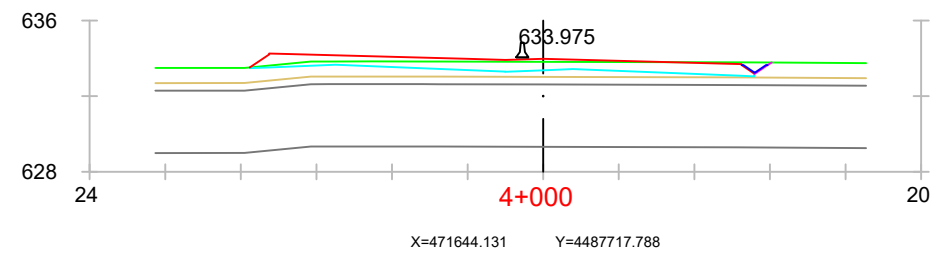
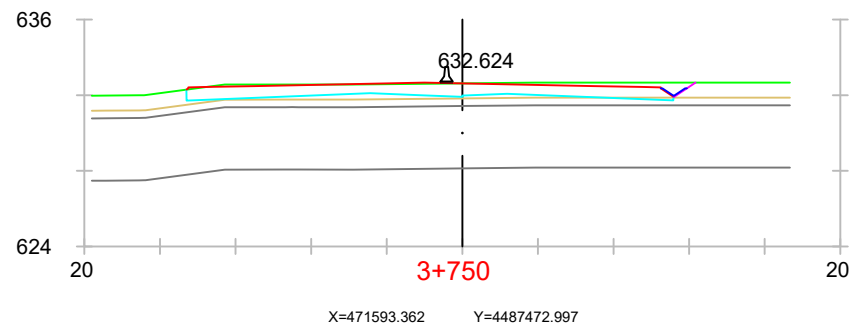
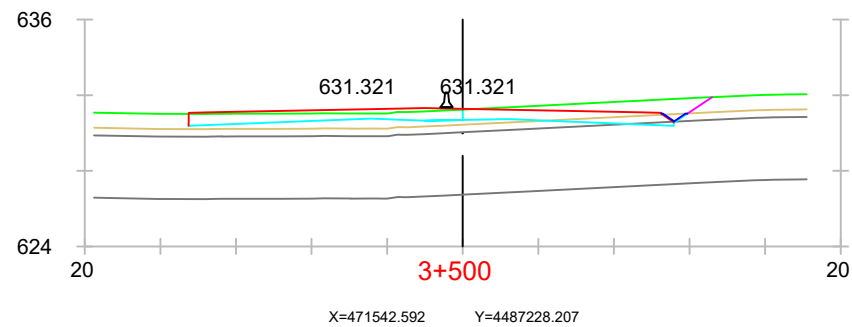
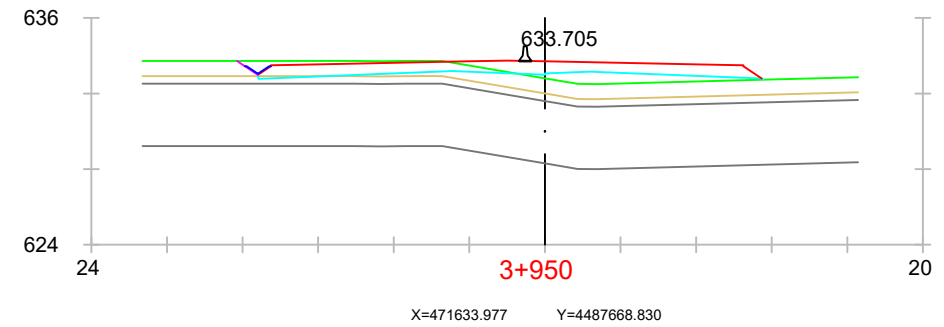
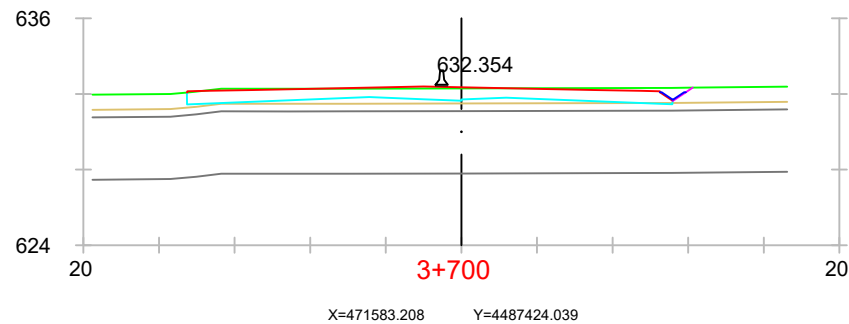
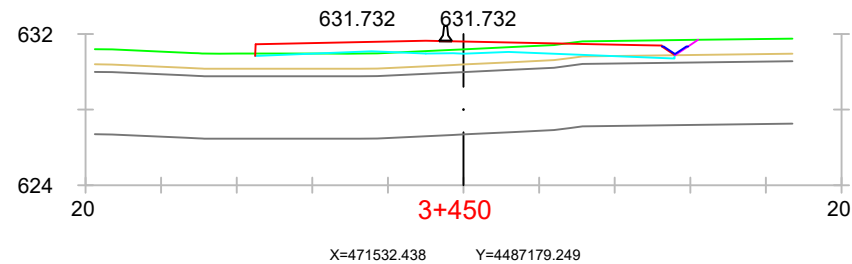
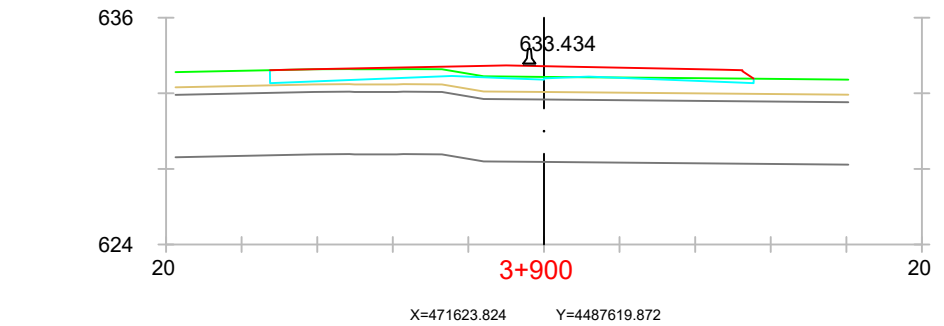
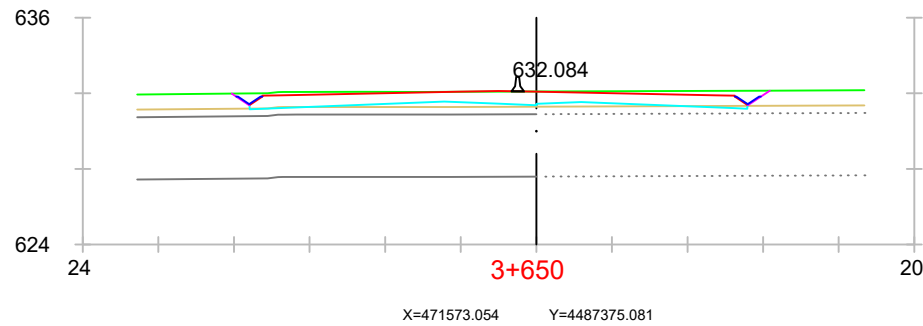
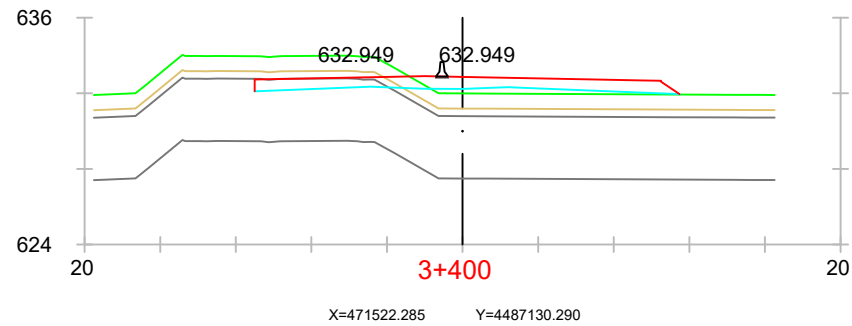


EJE 10  
PK 2+900 - 3+350





EJE 10  
PK 3+400 - 4+120,036



**EJE 11**  
**PK 0+000 - 0+407,790**

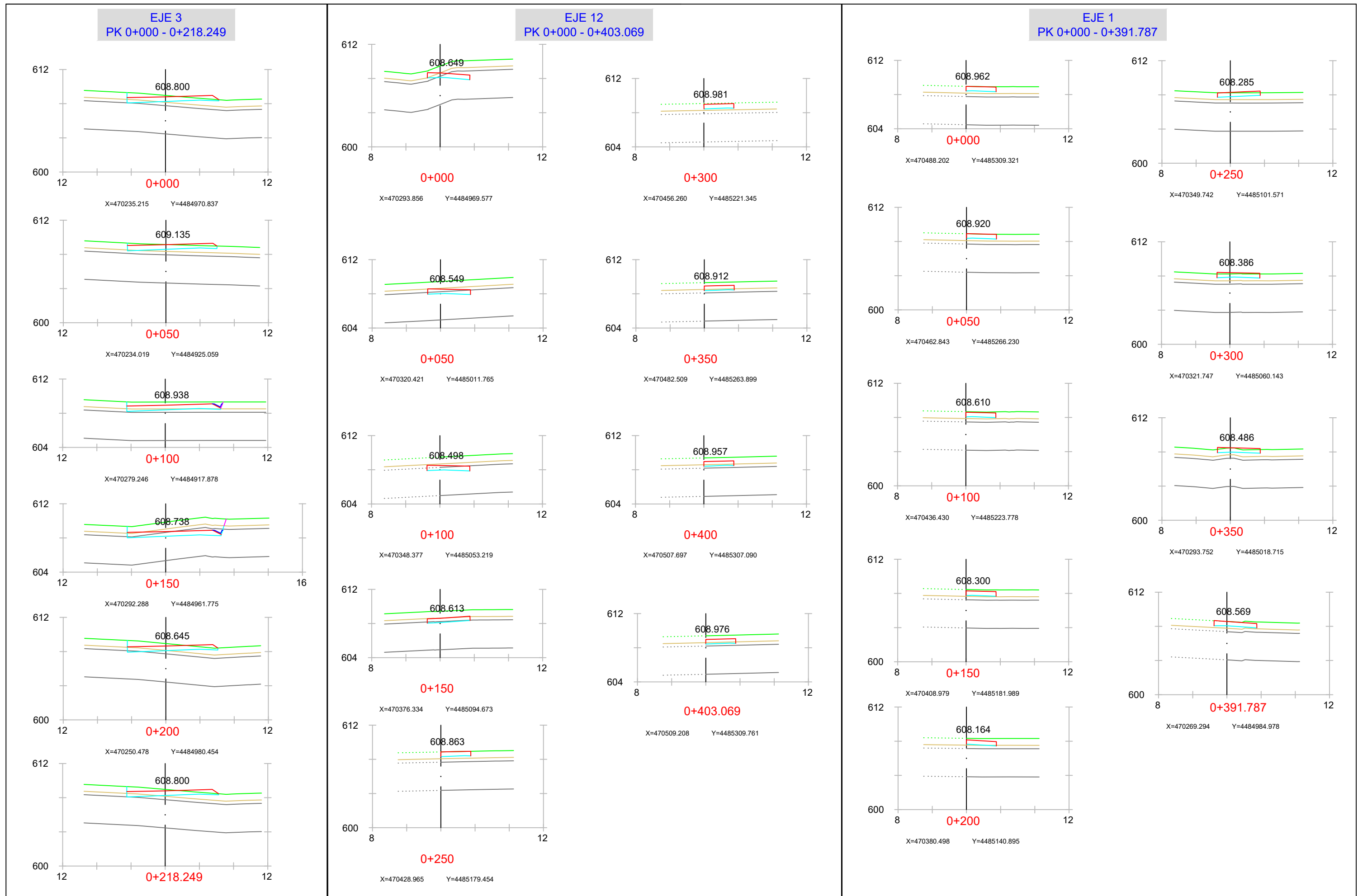
The figure displays 10 cross-section plots for EJE 11, showing elevations and stationing. The plots are arranged in a 5x2 grid. Each plot includes a vertical axis for elevation (604 to 616) and a horizontal axis for stationing (8 to 16). The plots show various colored lines representing different road features and a central vertical line indicating the centerline. The elevation values are labeled on each plot: 608.512, 608.912, 608.787, 609.062, 608.662, 609.162, 608.887, 609.037, and 609.000. The stationing values are labeled in red: 0+000, 0+250, 0+050, 0+300, 0+100, 0+350, 0+150, 0+400, 0+200, and 0+407.790. The coordinates (X and Y) are provided for each plot.

Station	Elevation (m)	X (m)	Y (m)
0+000	608.512	470206.540	4484504.467
0+250	608.912	470241.593	4484751.793
0+050	608.787	470212.762	4484554.078
0+300	608.787	470245.853	4484801.594
0+100	609.062	470218.985	4484603.689
0+350	608.662	470250.923	4484851.318
0+150	609.162	470225.208	4484653.301
0+400	608.887	470261.176	4484900.198
0+200	609.037	470231.797	4484702.857
0+407.790	609.000	470264.233	4484907.302

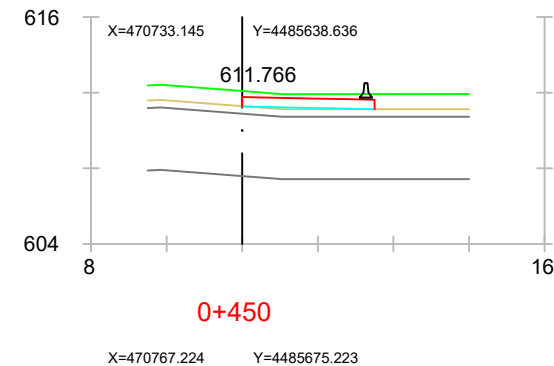
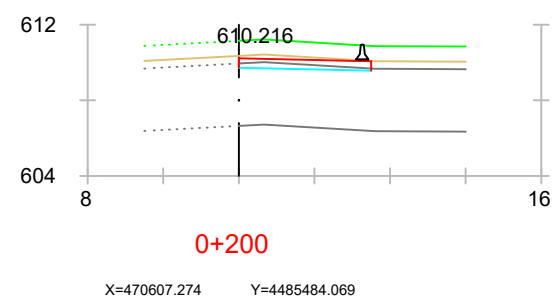
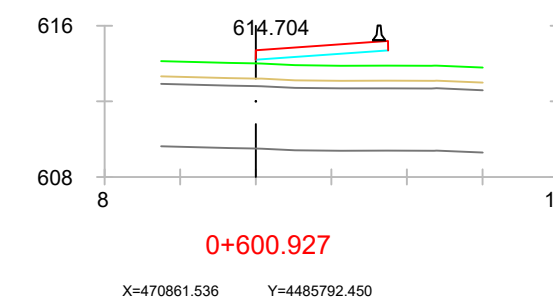
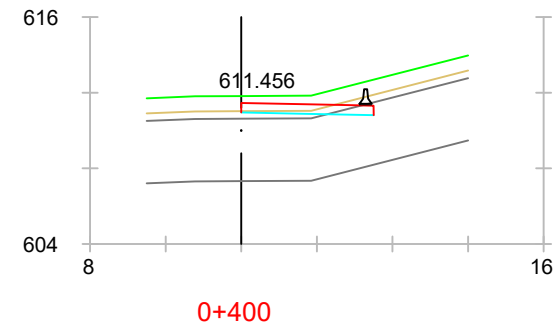
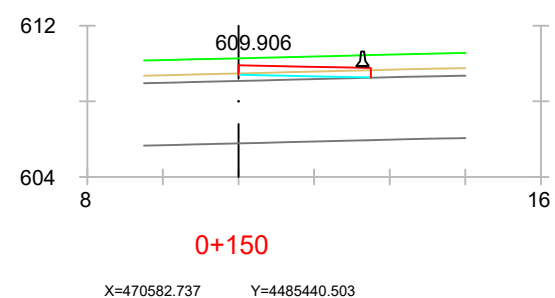
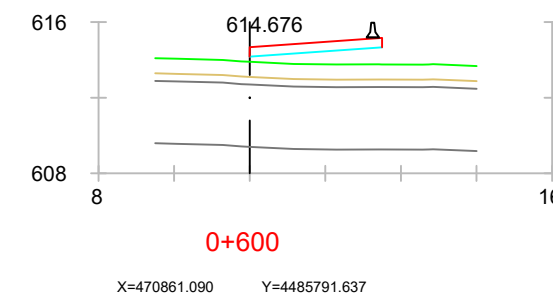
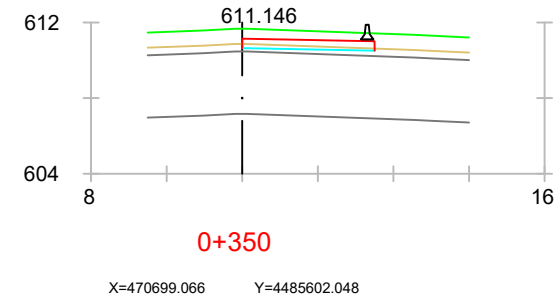
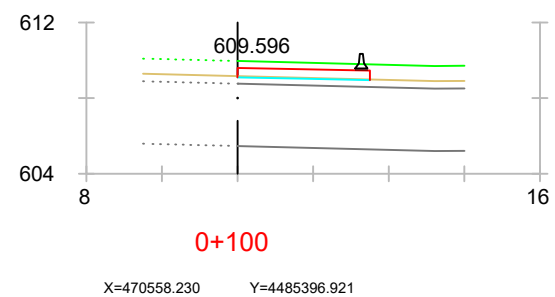
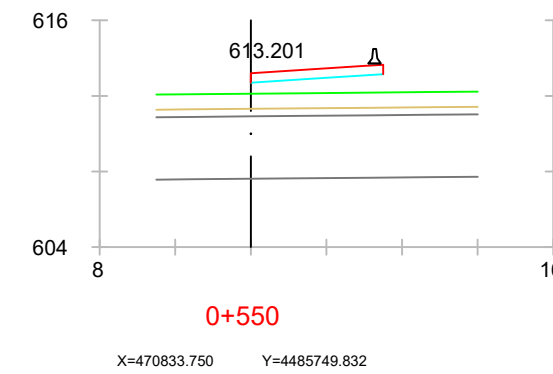
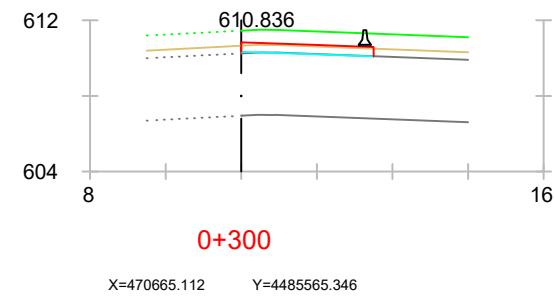
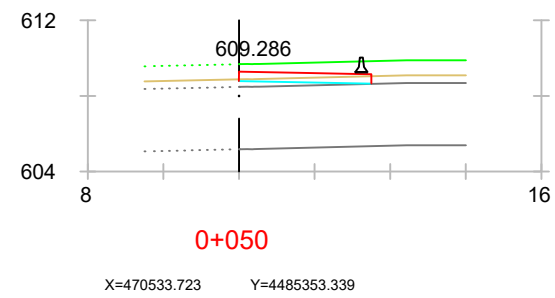
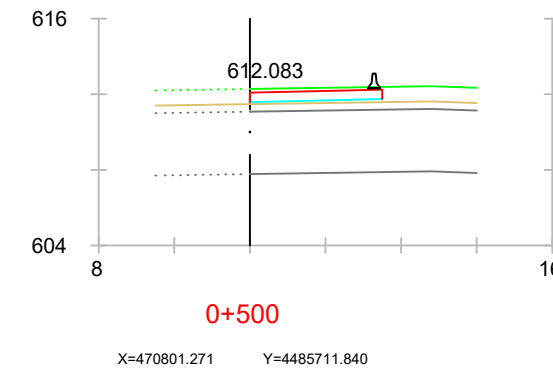
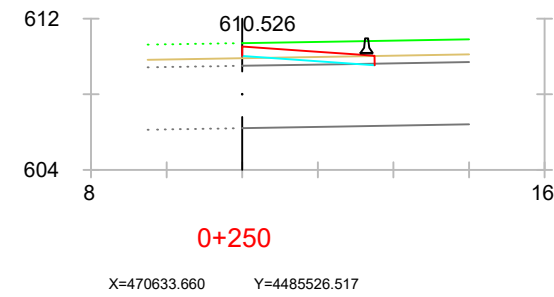
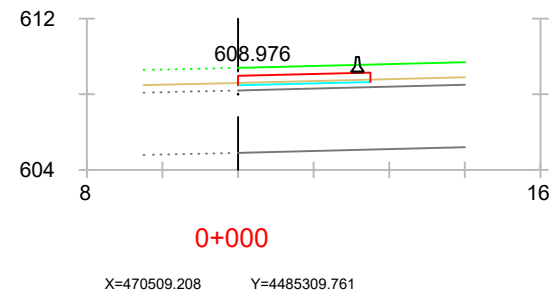
**EJE 2**  
**PK 0+000 - 0+757,595**

The figure displays 12 cross-section diagrams for EJE 2, showing elevations and stationing. The diagrams are arranged in a 4x3 grid. Each diagram includes a vertical axis for elevation (ranging from 600 to 612 or 608) and a horizontal axis for stationing (ranging from 8 to 12 or 16). The diagrams show various colored lines representing different road features and a central vertical line indicating the centerline. The elevation values are labeled at the top of each diagram.

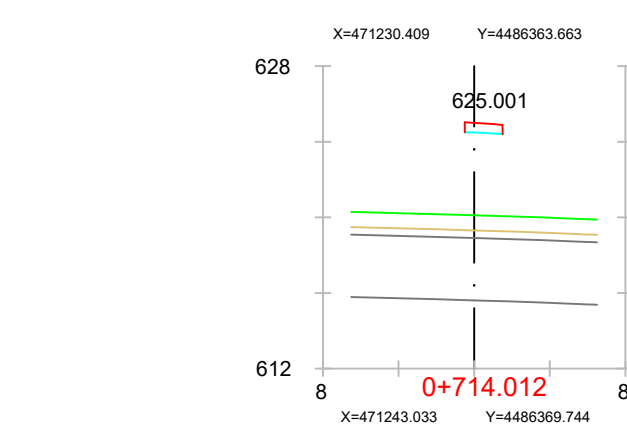
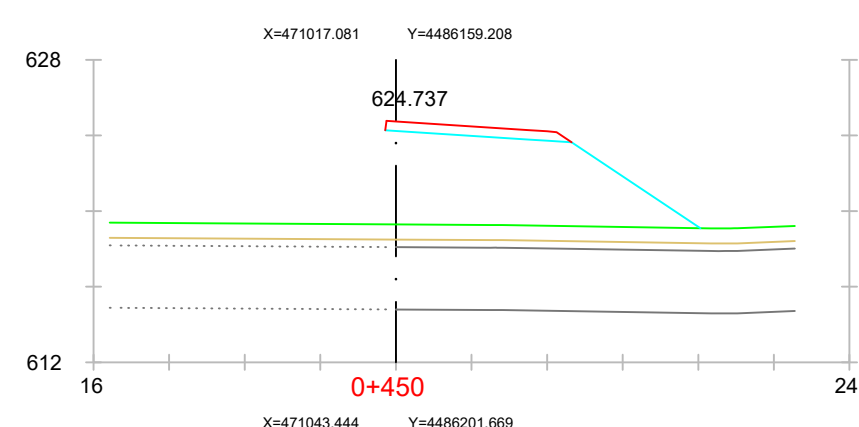
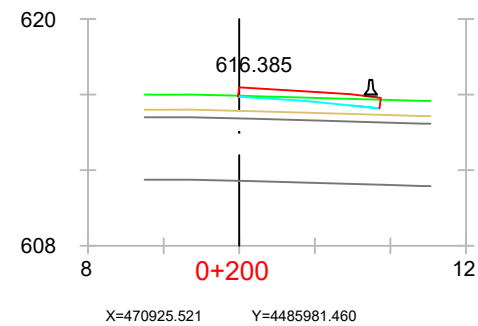
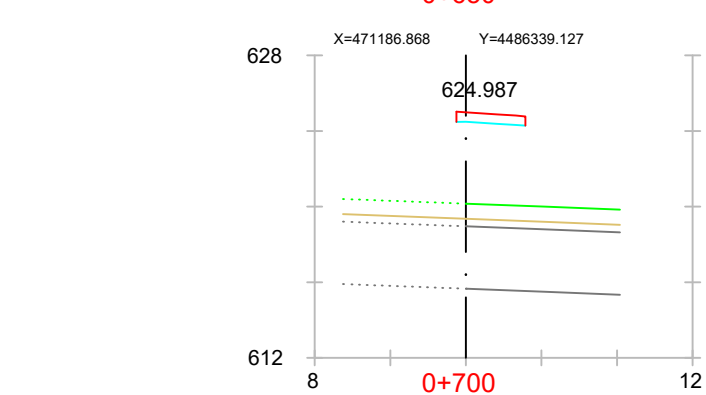
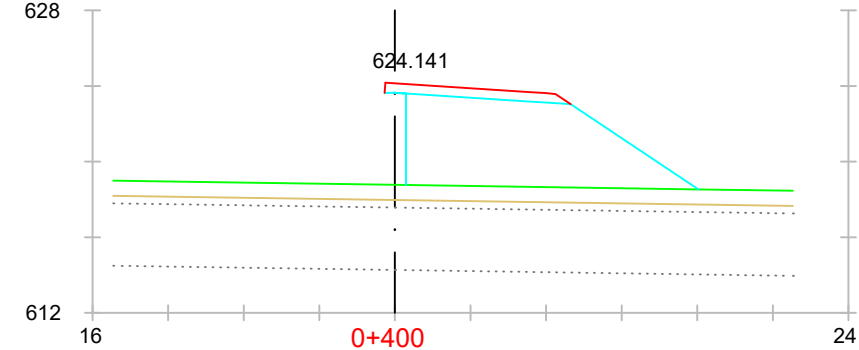
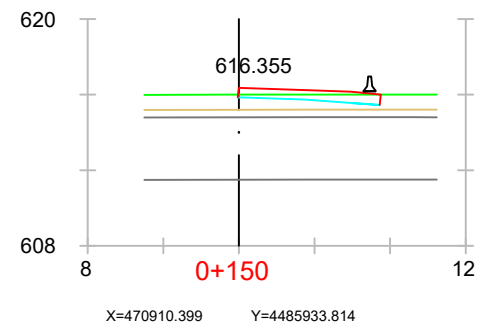
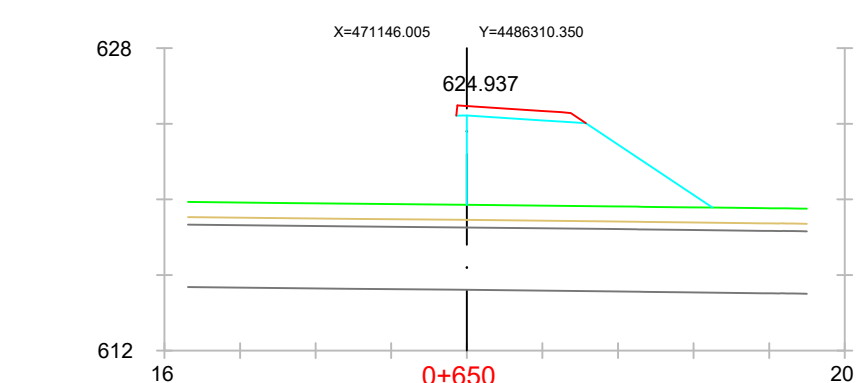
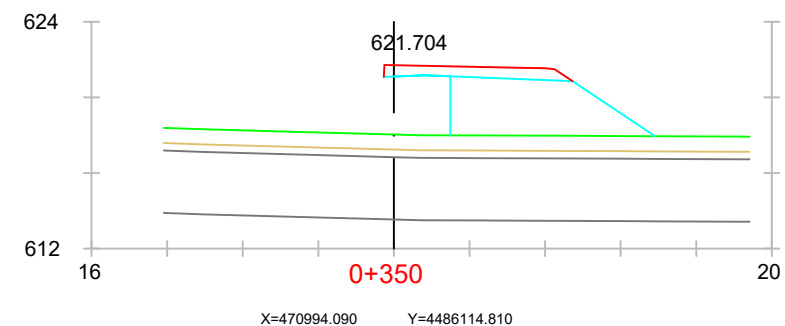
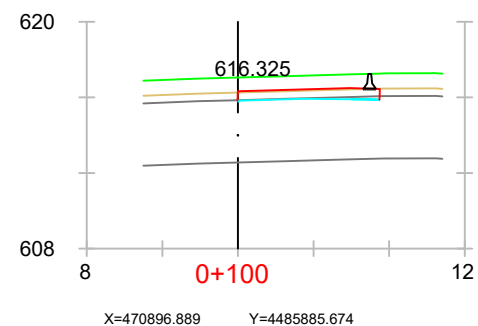
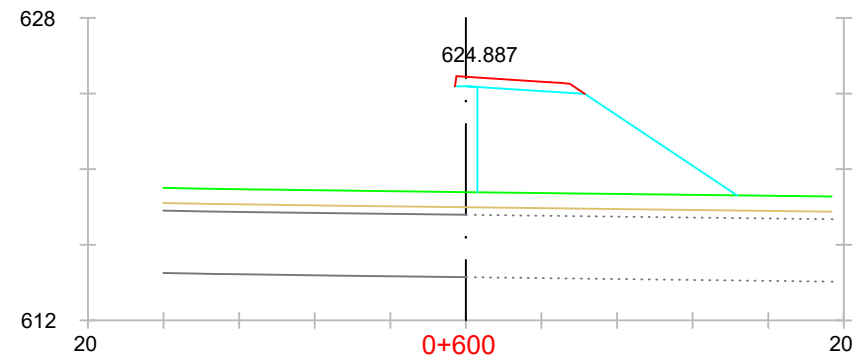
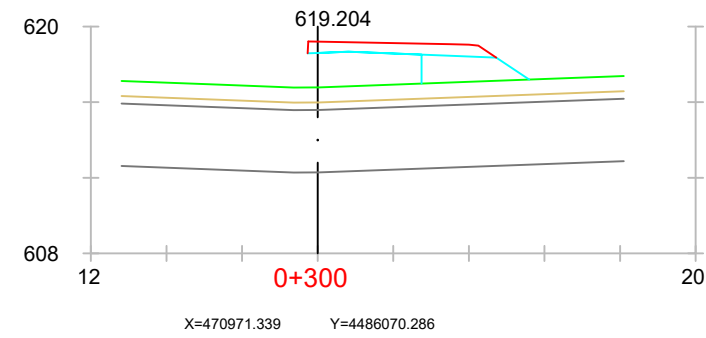
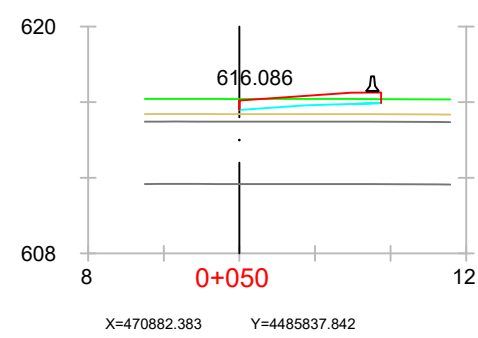
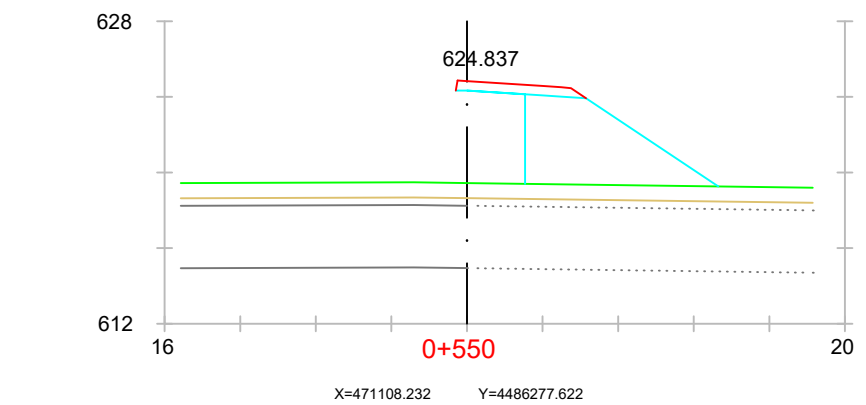
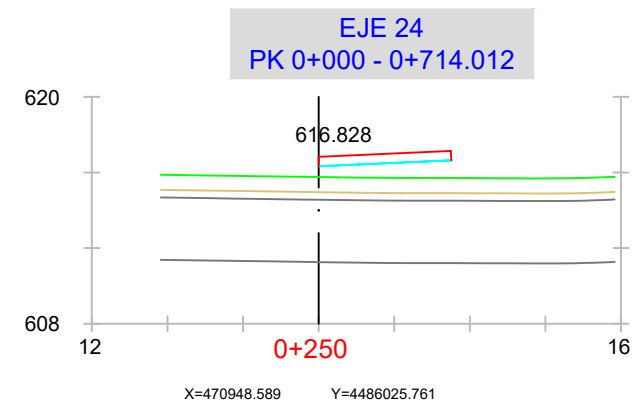
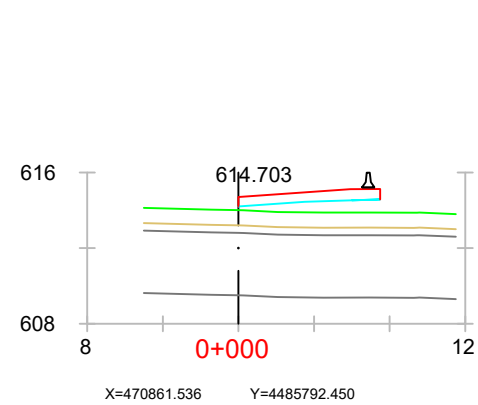
Station (PK)	Elevation (m)	X (m)	Y (m)
0+000	609.000	470234.656	4484918.293
0+300	608.751	470198.976	4484620.933
0+550	607.874	470172.900	4484372.354
0+050	609.524	470227.205	4484869.260
0+350	608.485	470192.753	4484571.322
0+600	608.019	470168.941	4484322.511
0+100	609.465	470221.003	4484819.653
0+400	608.218	470186.530	4484521.710
0+650	607.429	470165.018	4484272.665
0+150	609.375	470217.544	4484769.779
0+700	606.421	470164.968	4484222.730
0+200	609.262	470211.421	4484720.155
0+450	607.952	470180.871	4484472.036
0+750	605.628	470160.428	4484172.977
0+250	609.017	470205.198	4484670.544
0+500	607.748	470176.859	4484422.197
0+757.595	605.517	470157.141	4484166.162

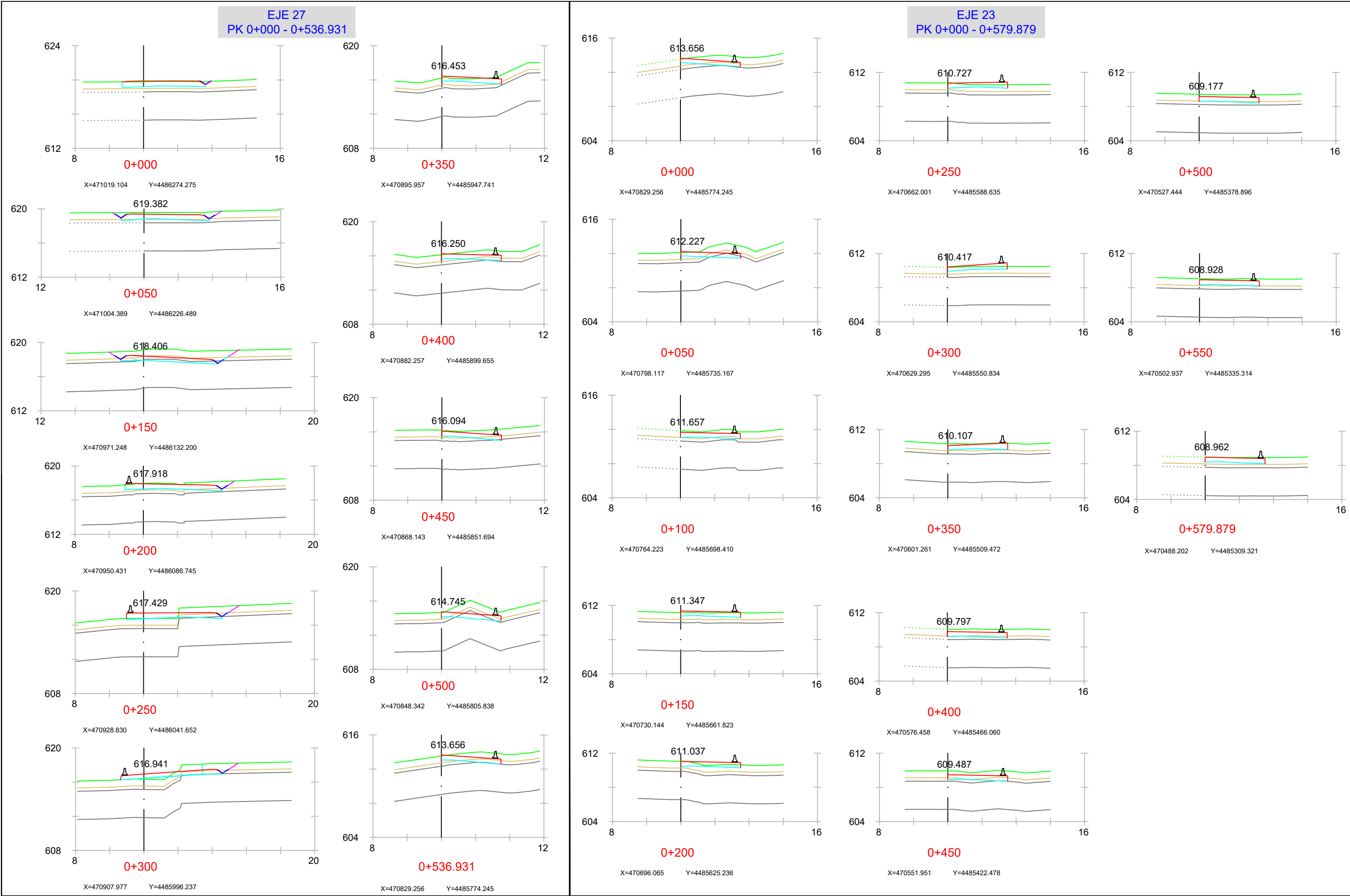


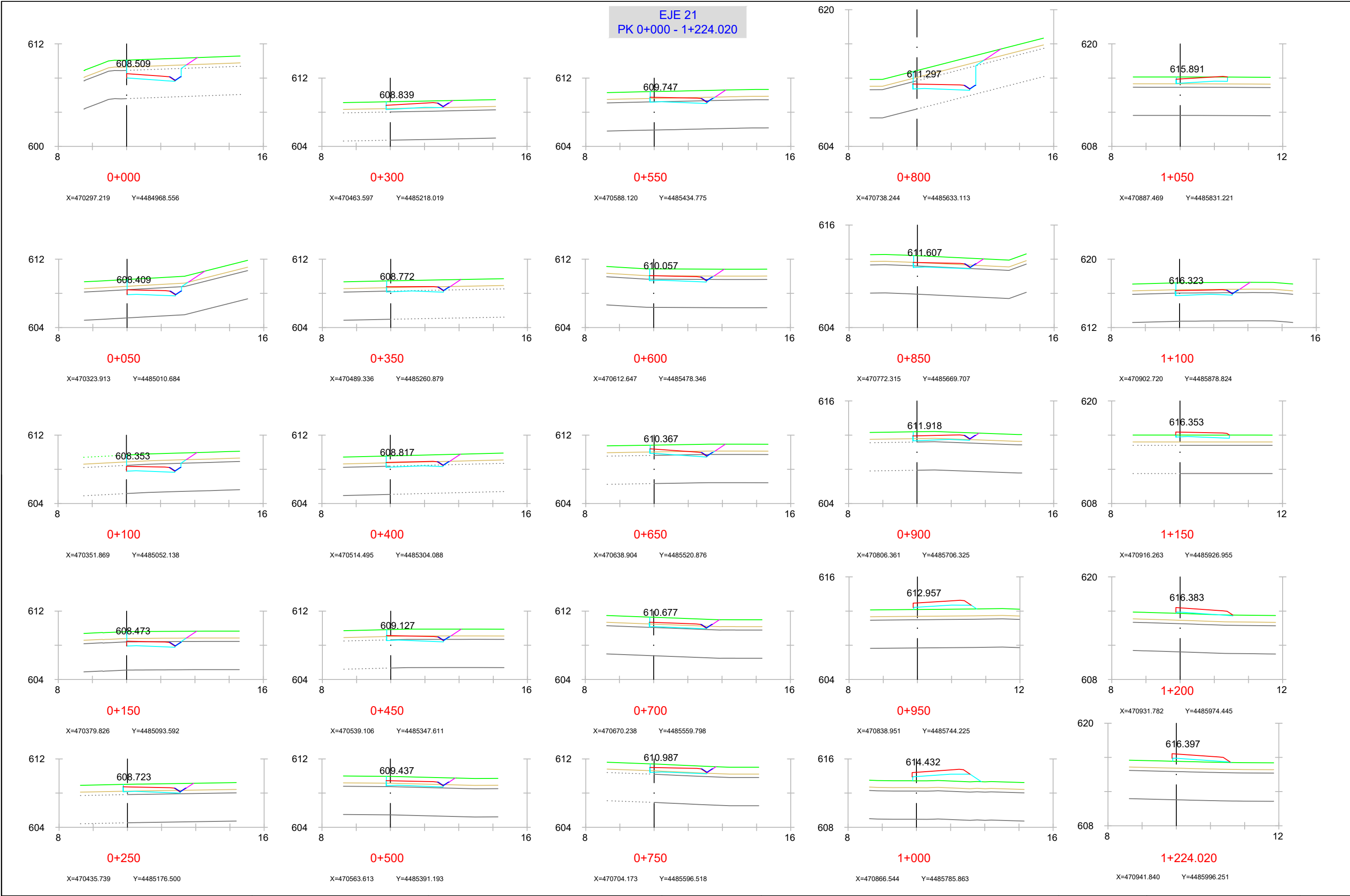
EJE 31  
PK 0+000 - 0+600.927

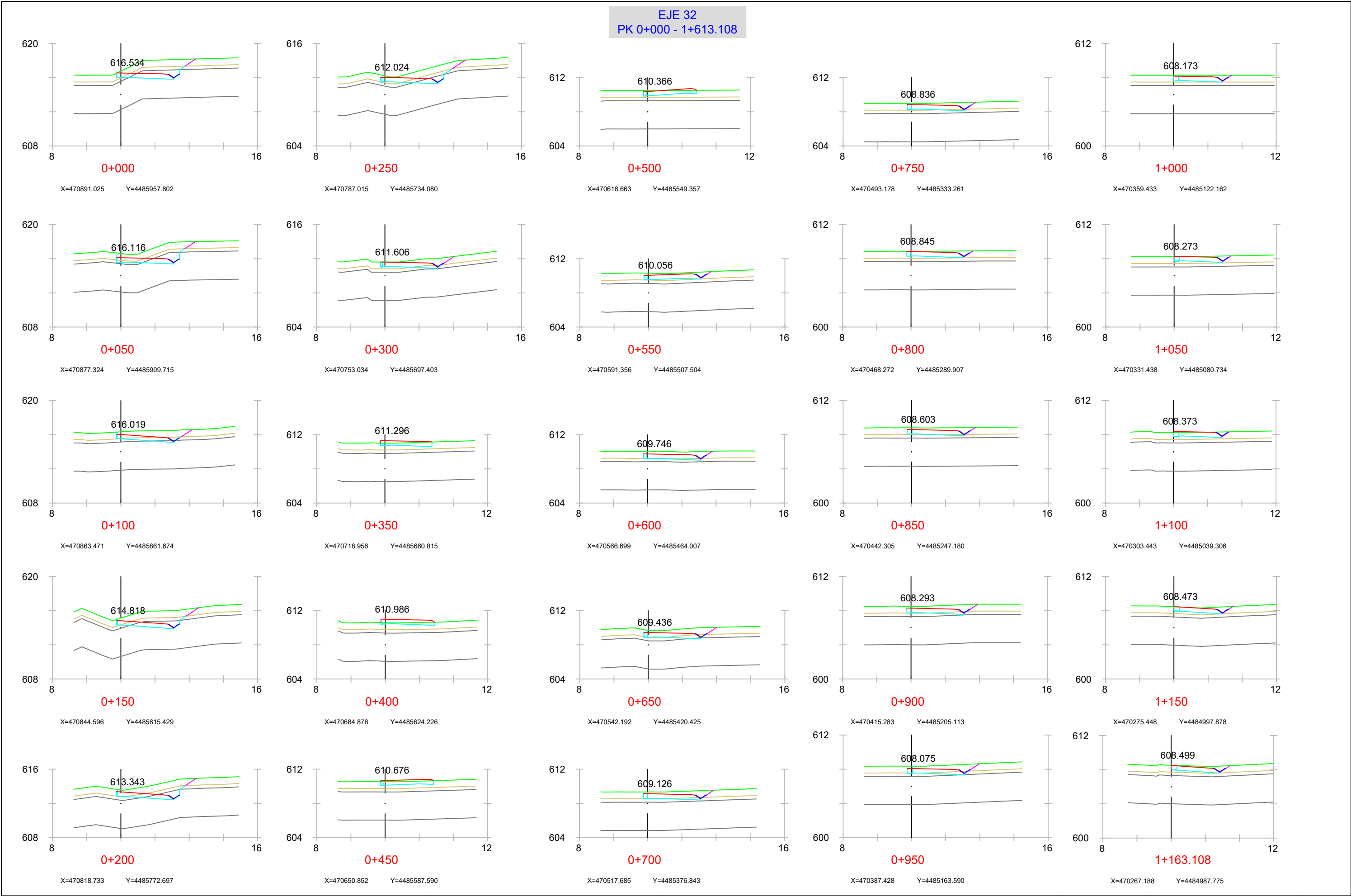




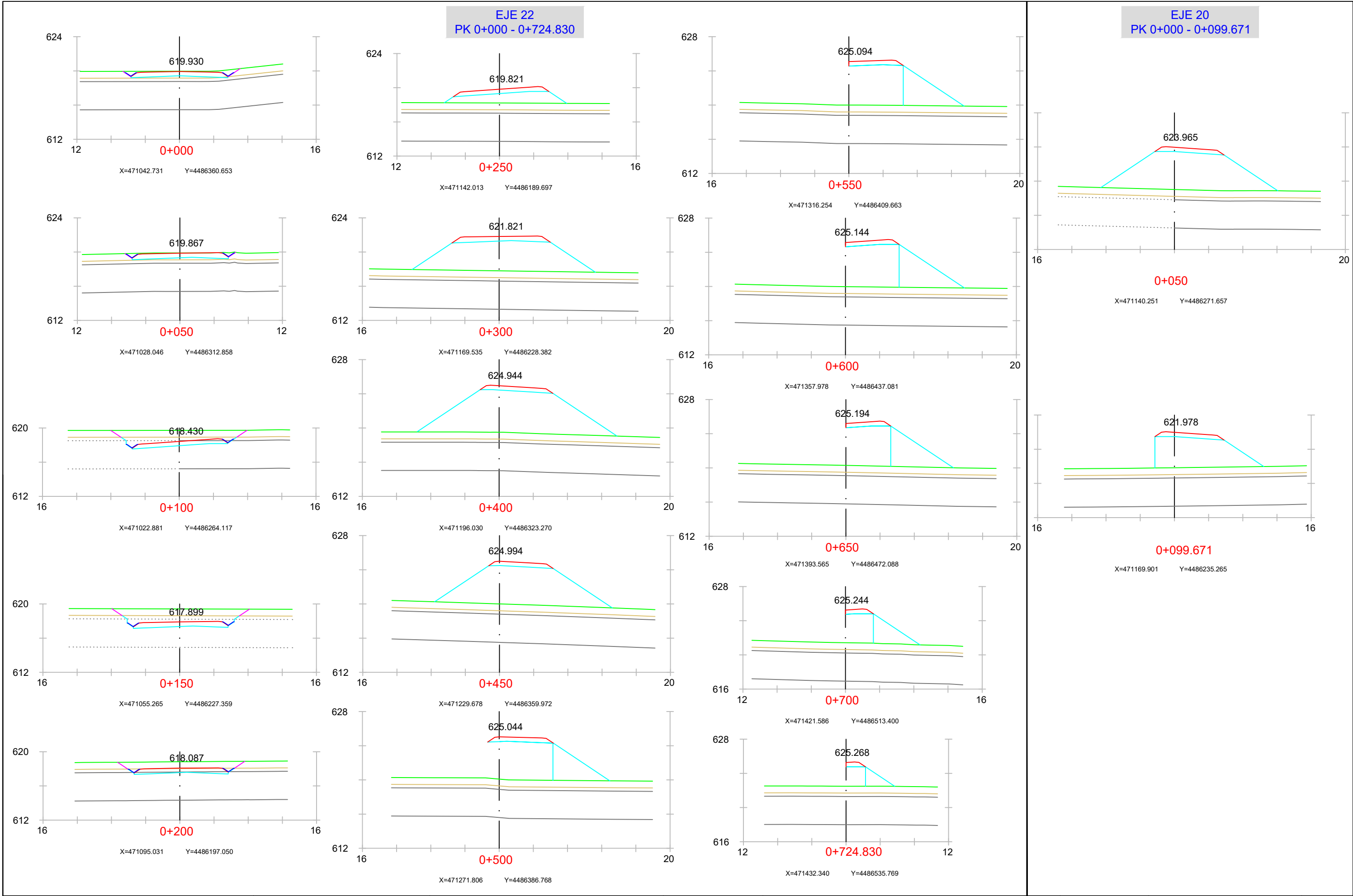




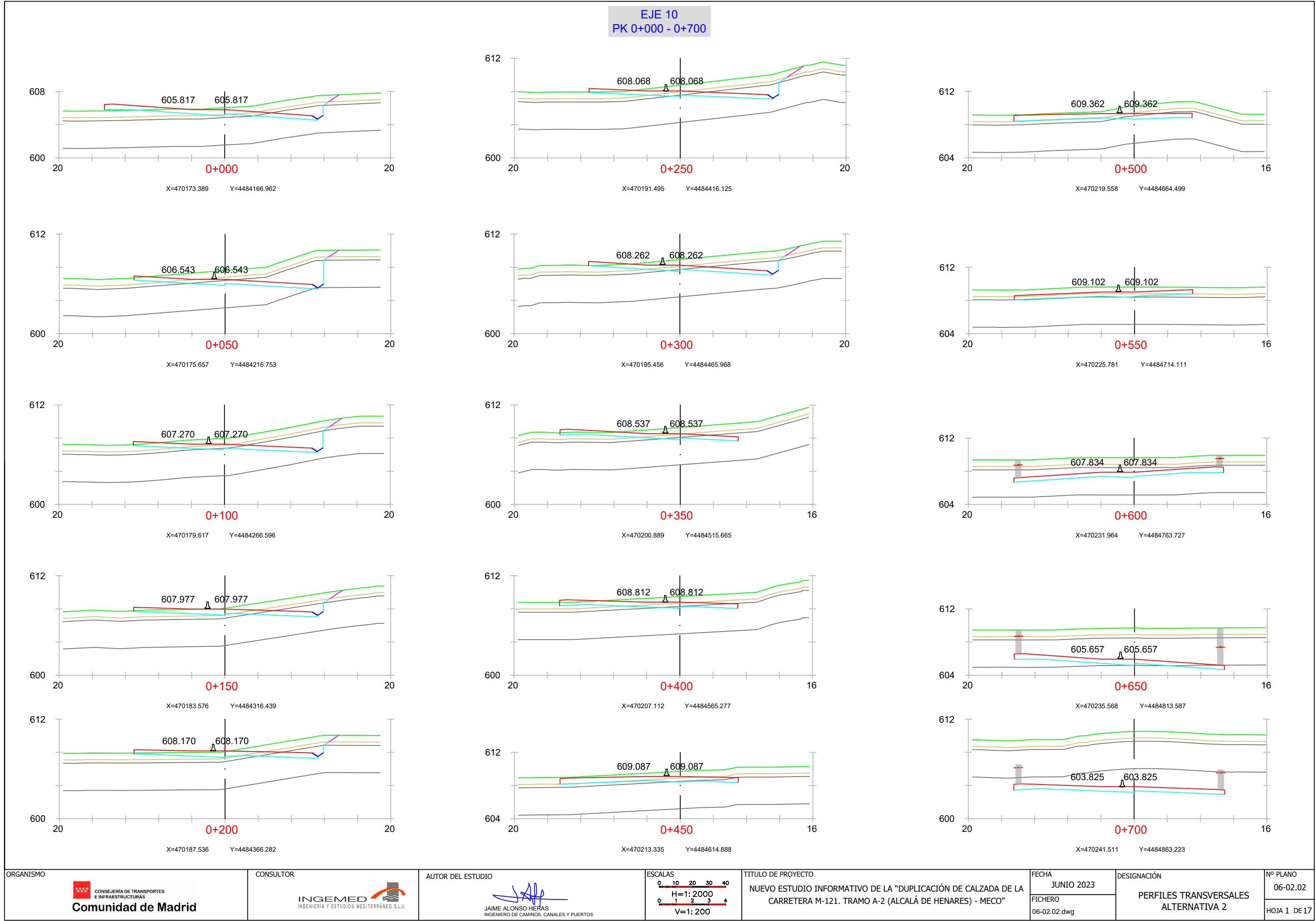


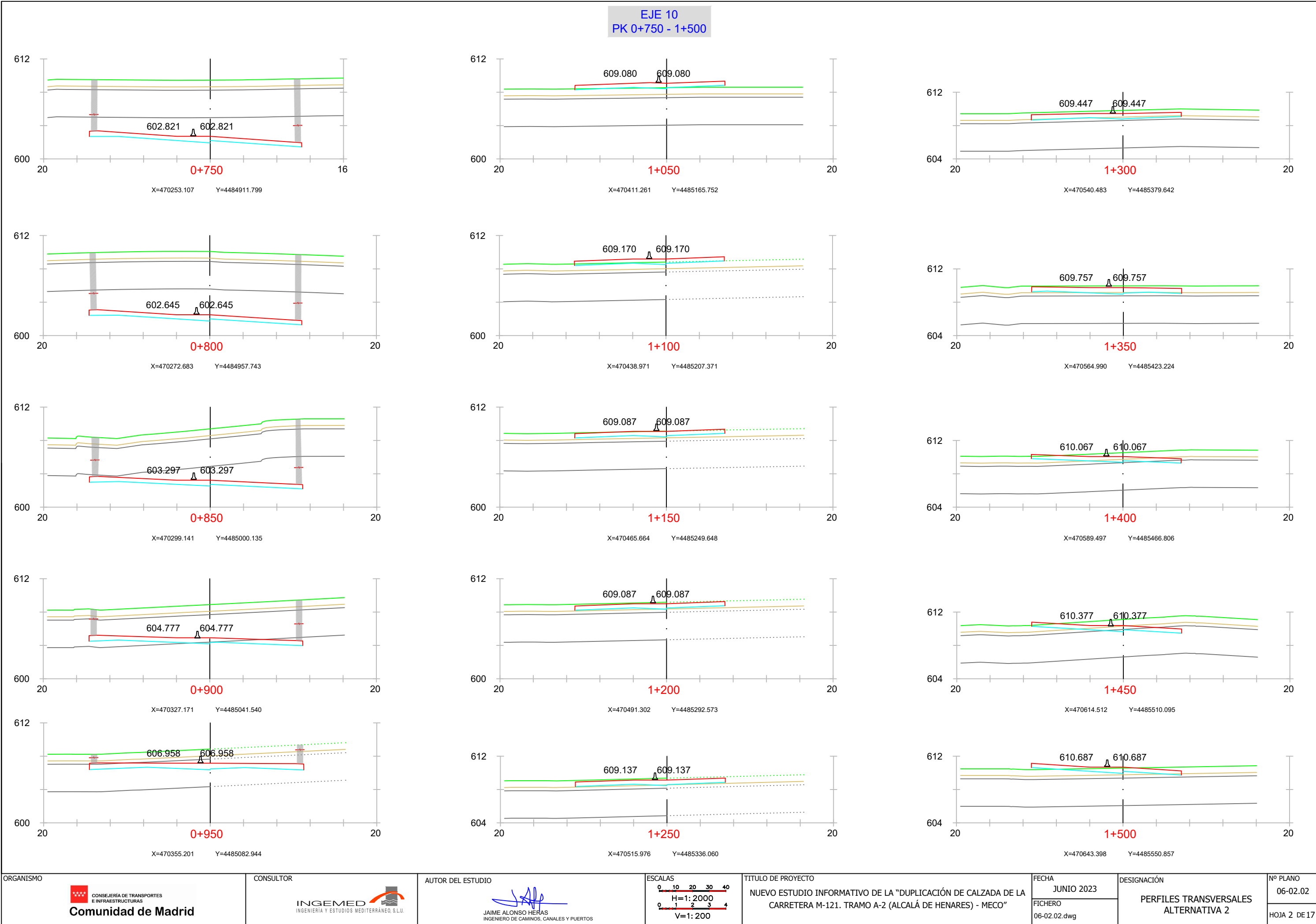






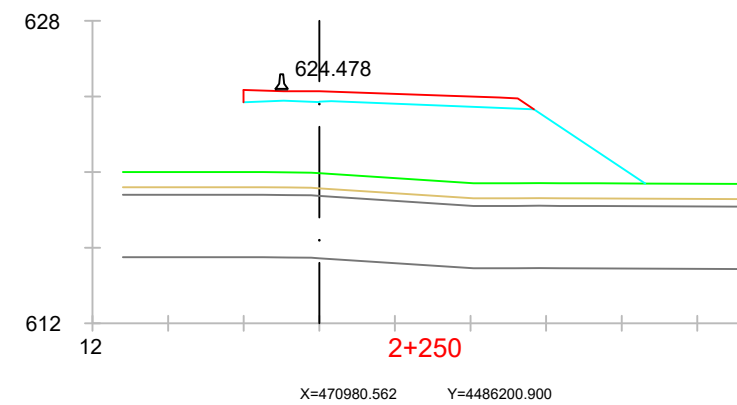
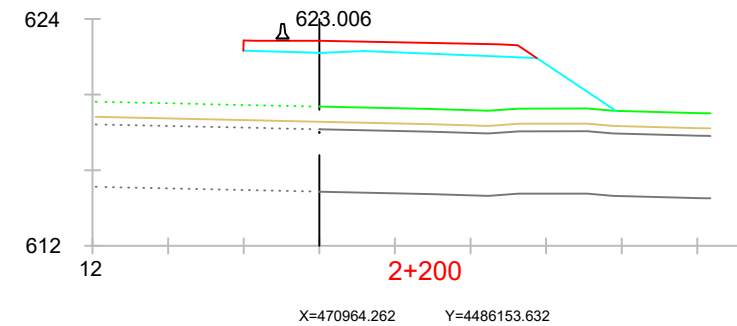
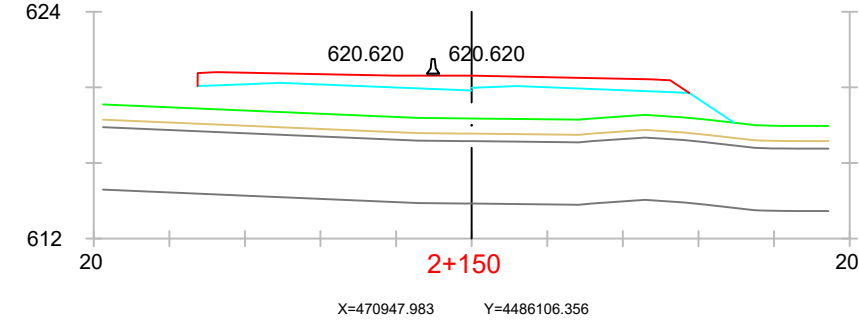
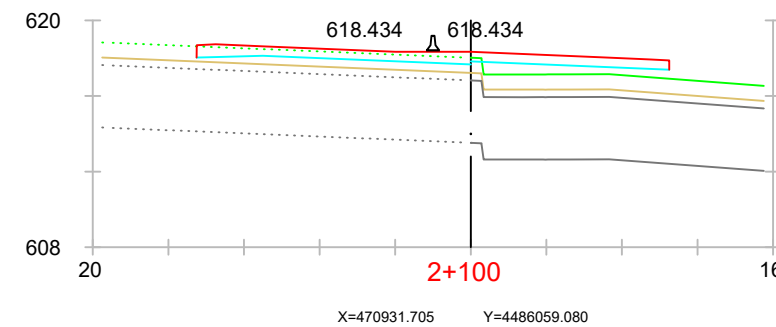
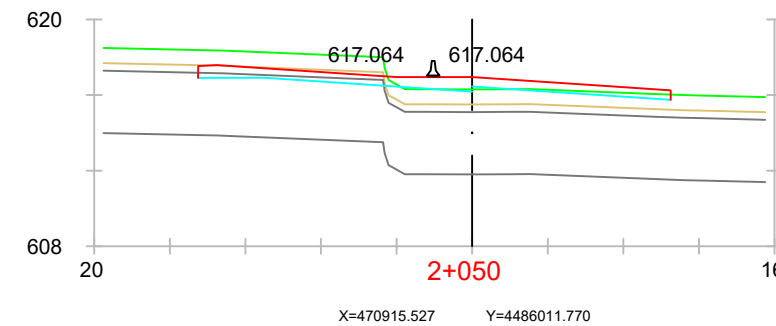
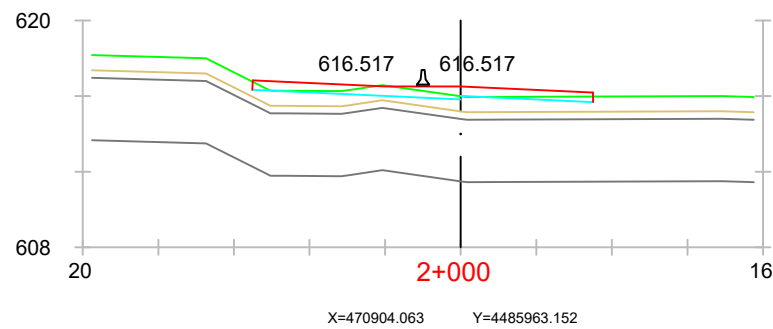
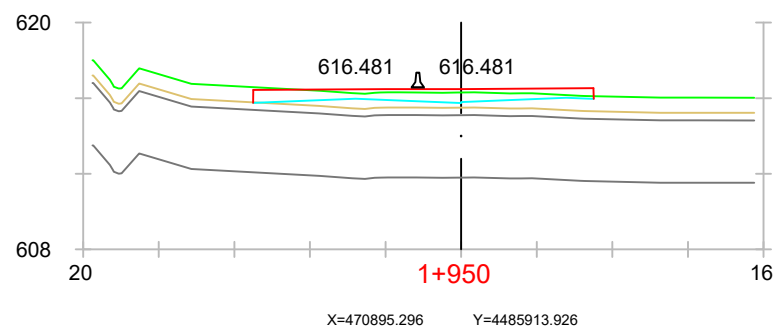
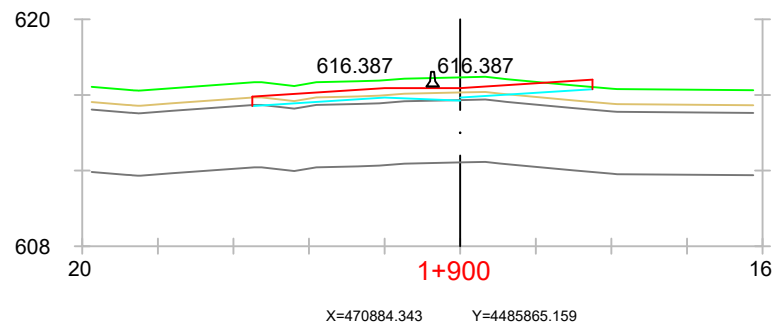
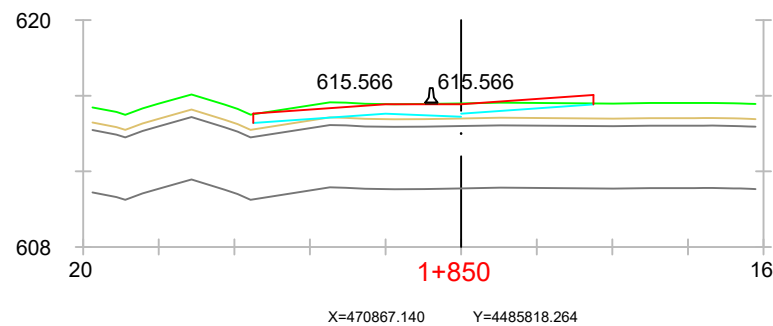
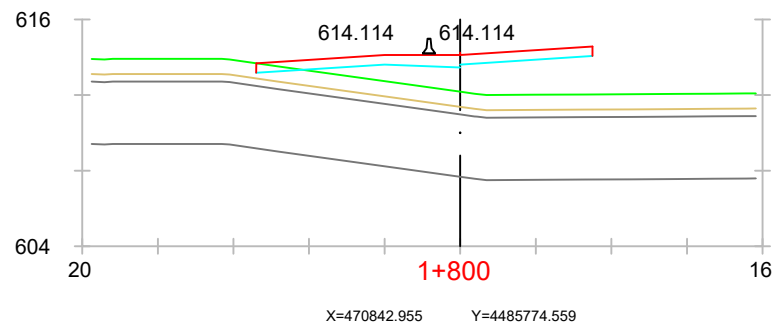
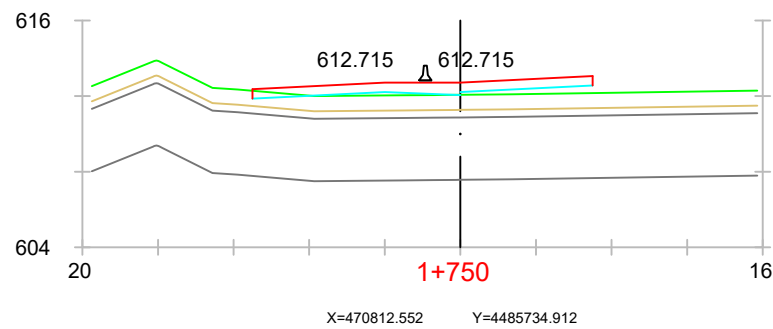
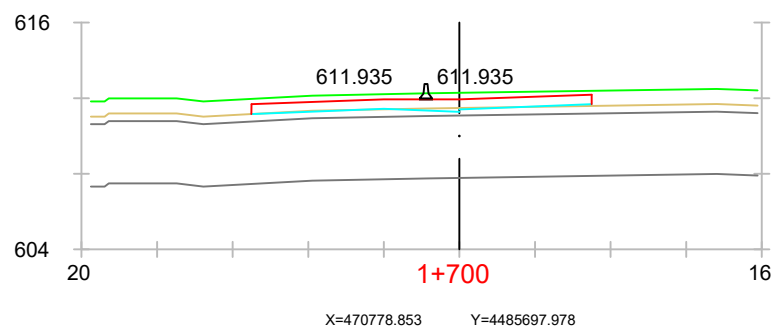
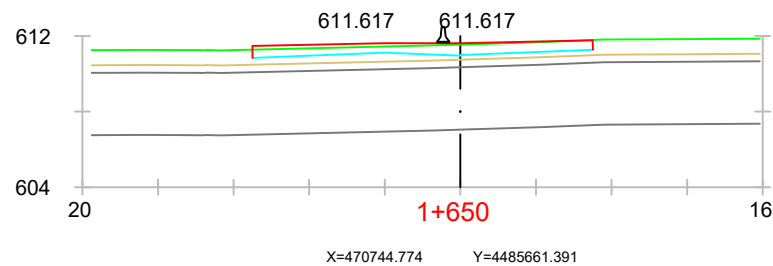
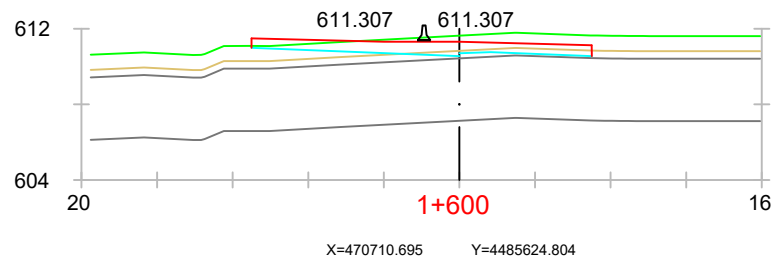
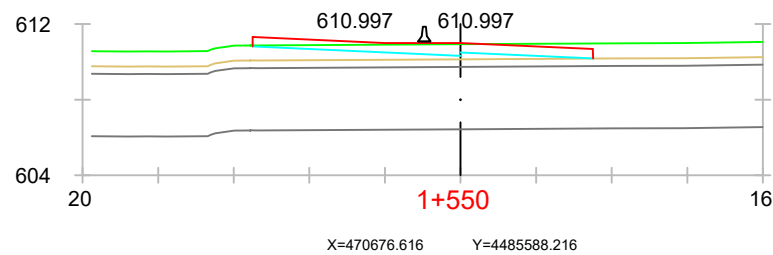


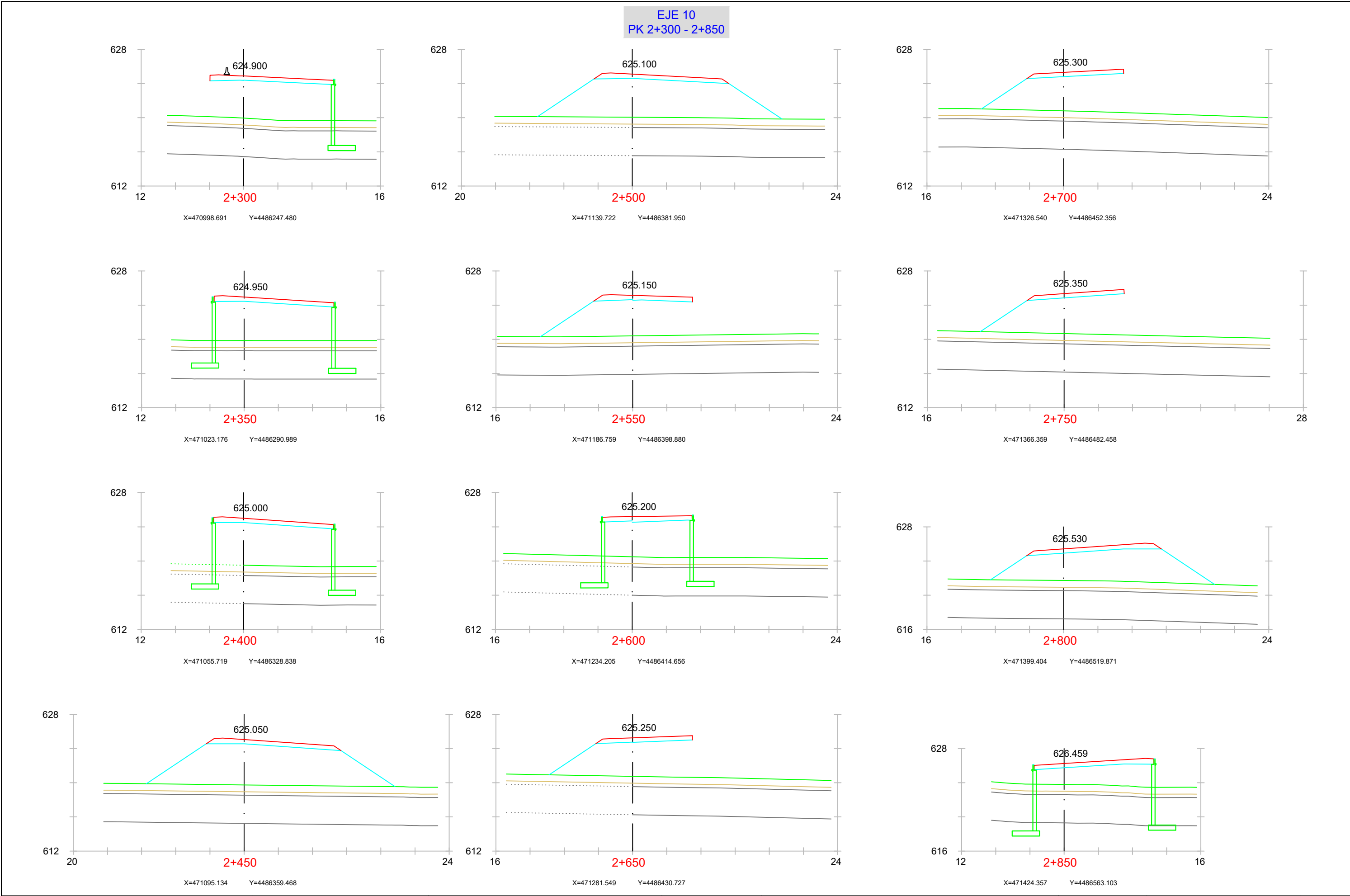


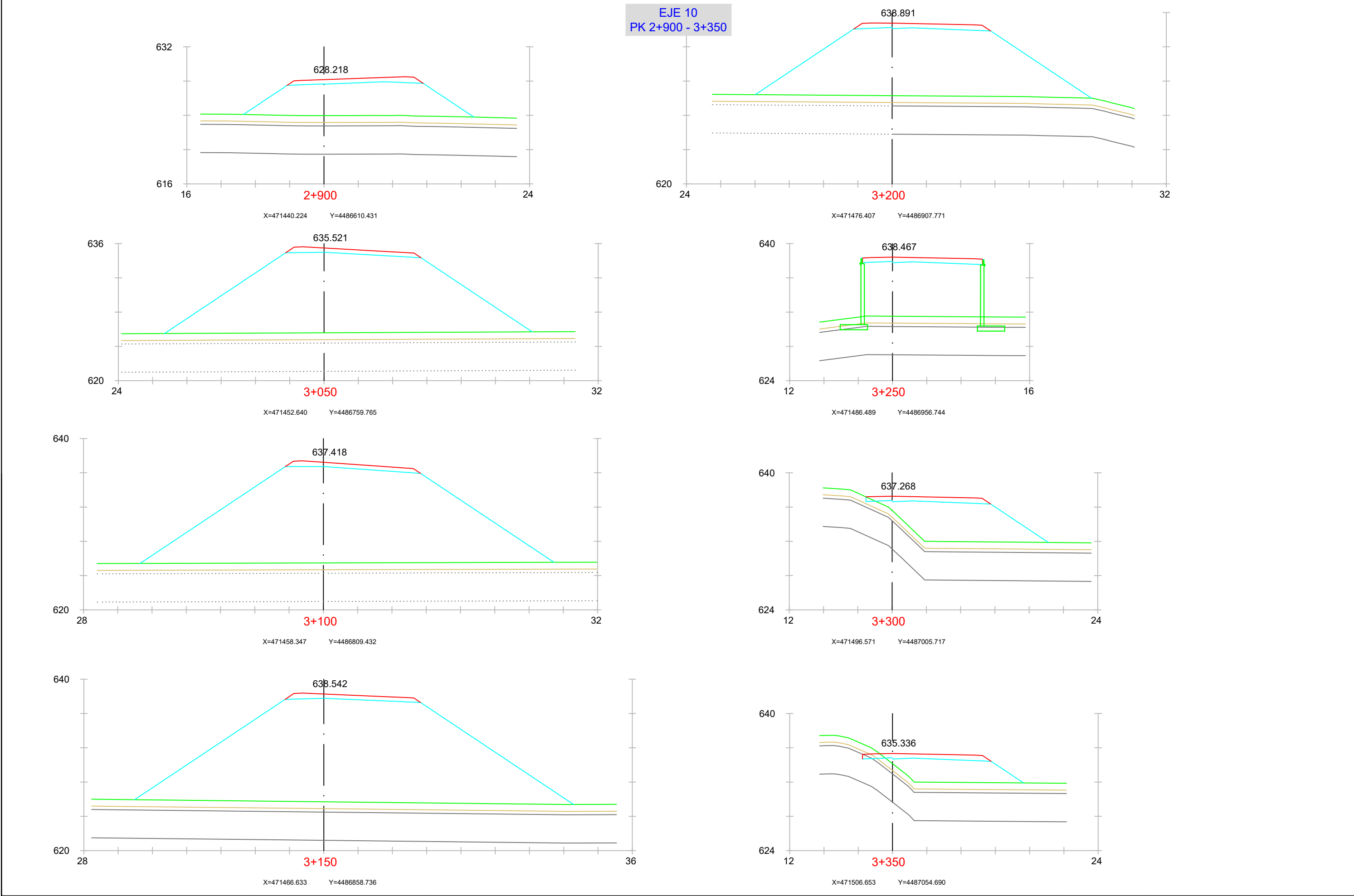


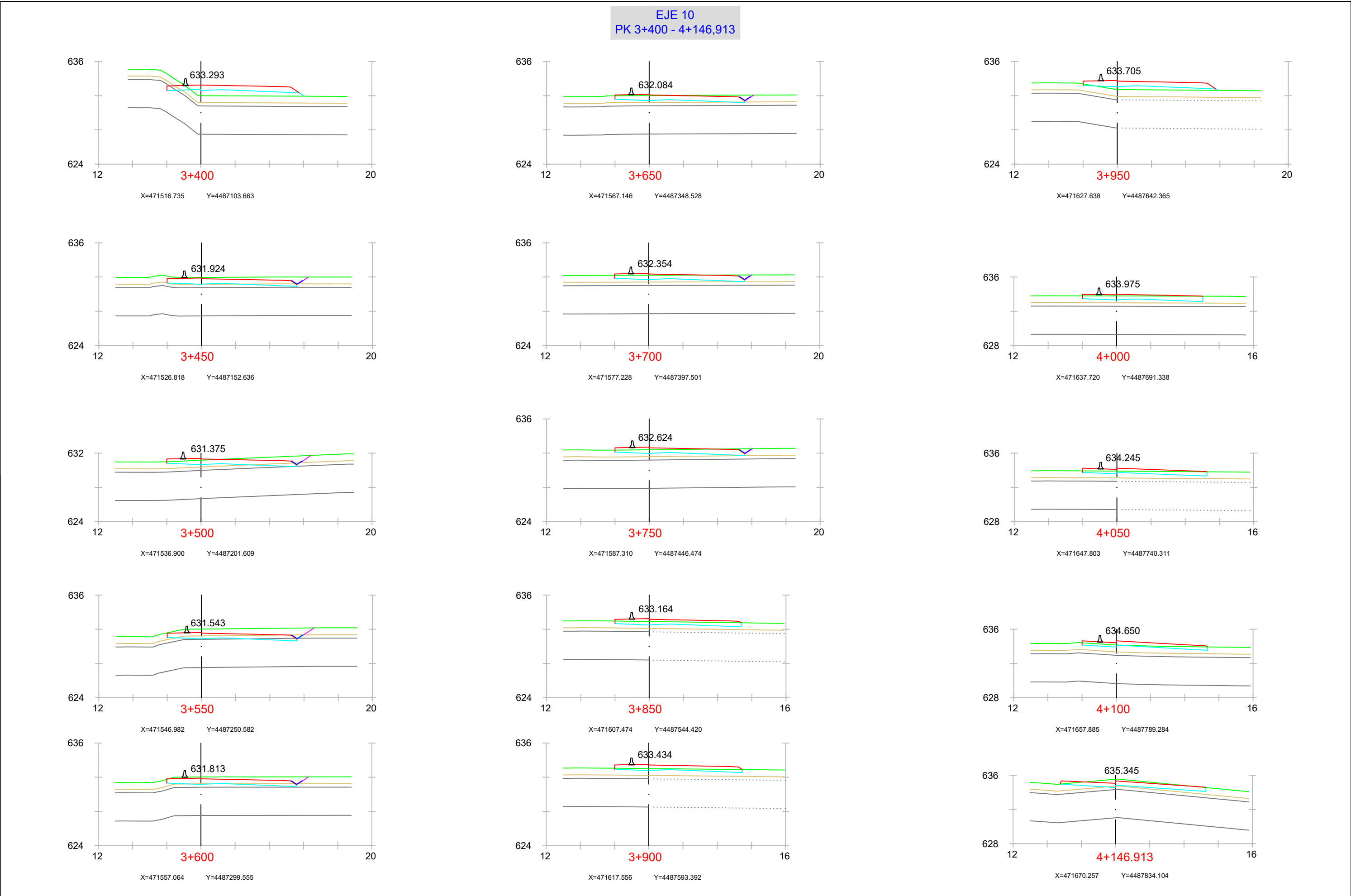


EJE 10  
PK 1+550 - 2+250

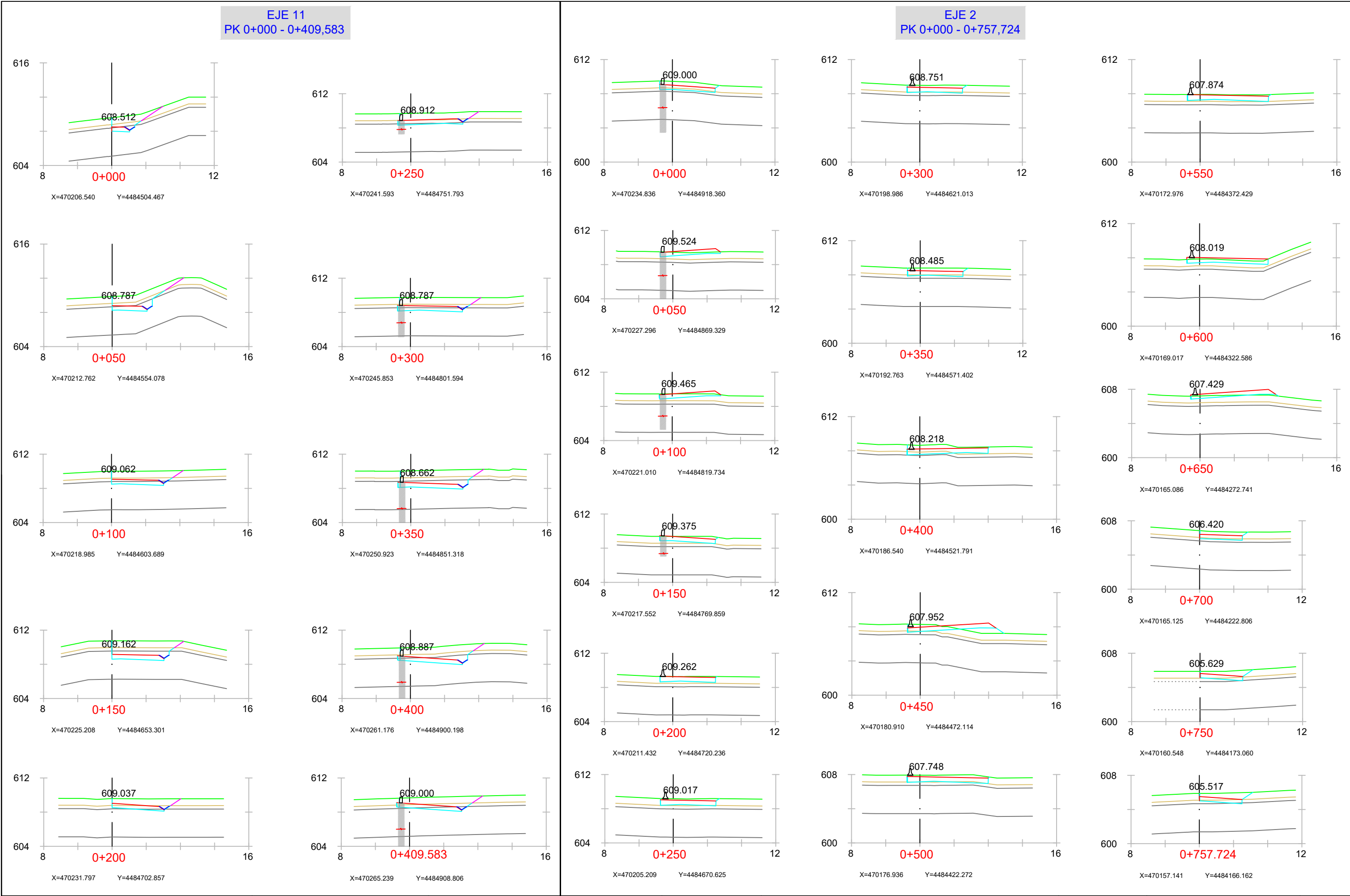


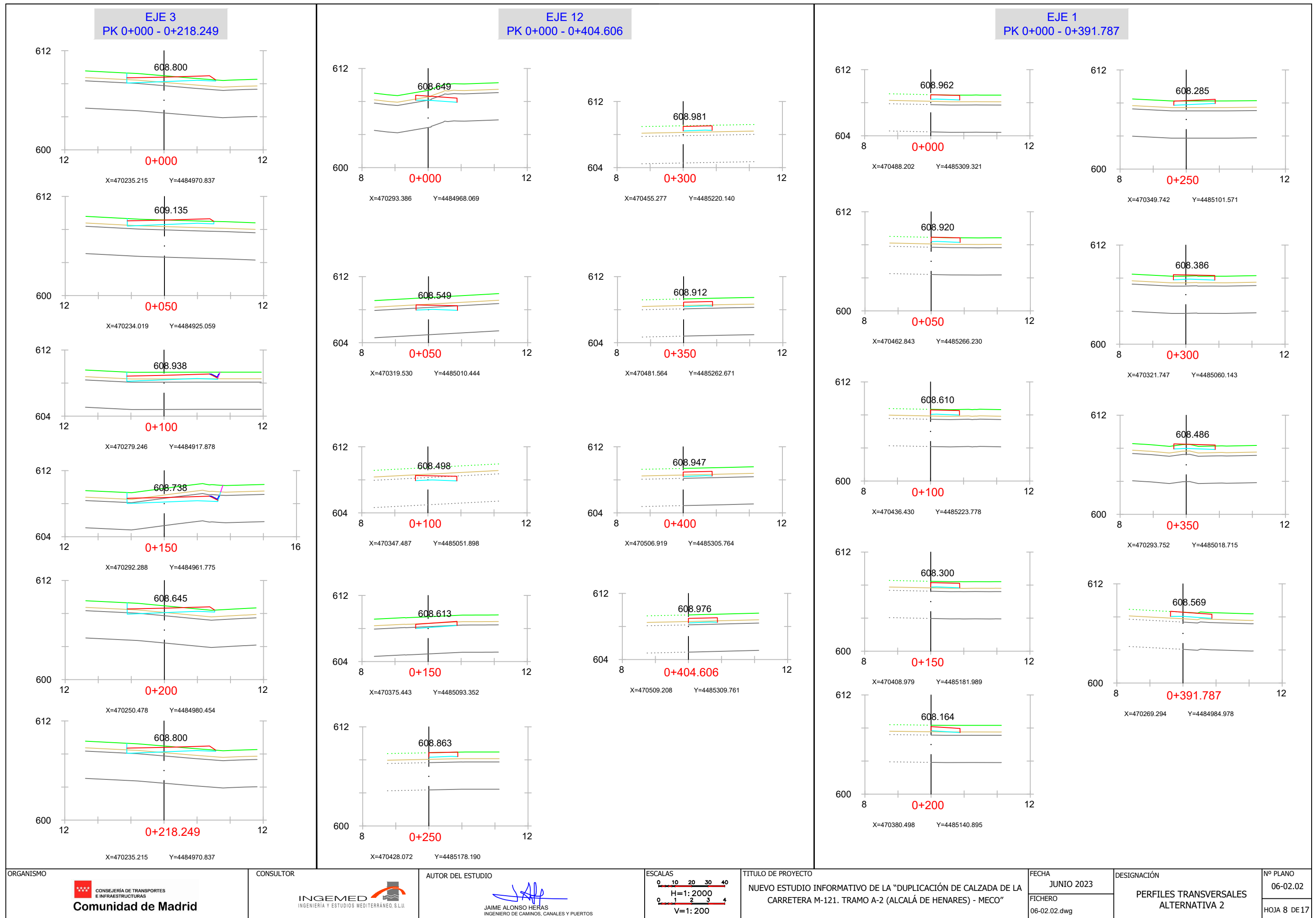


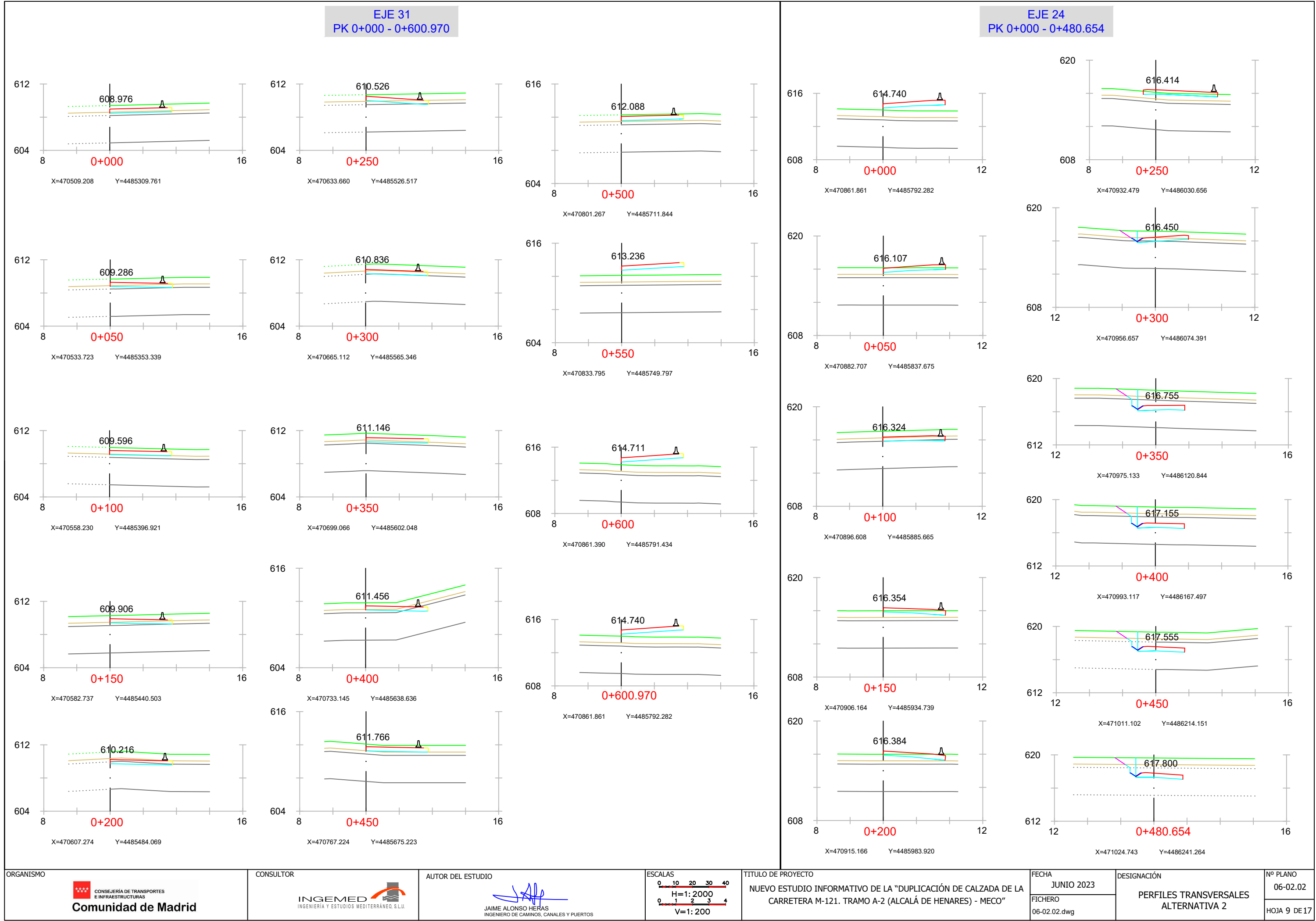






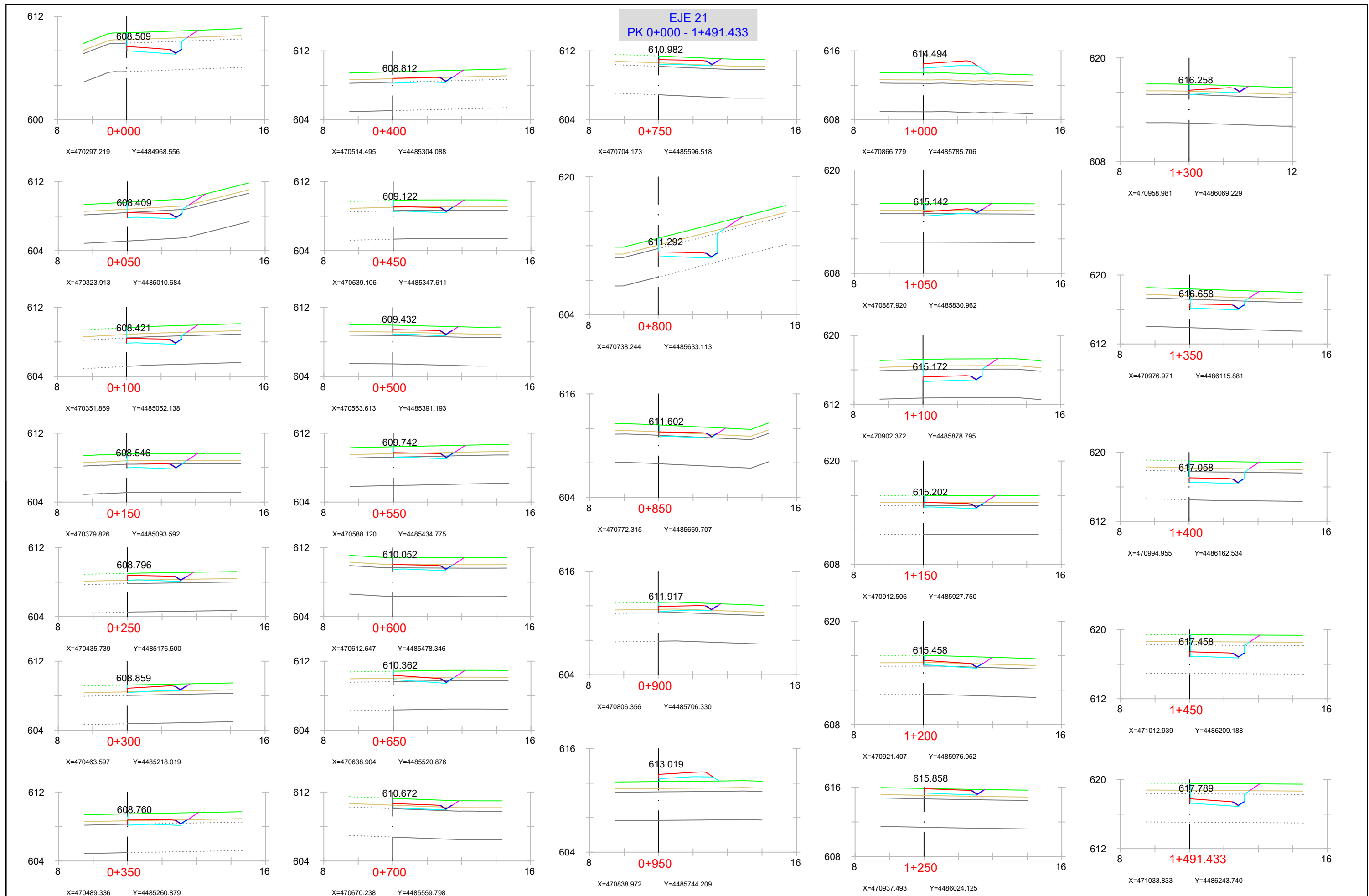


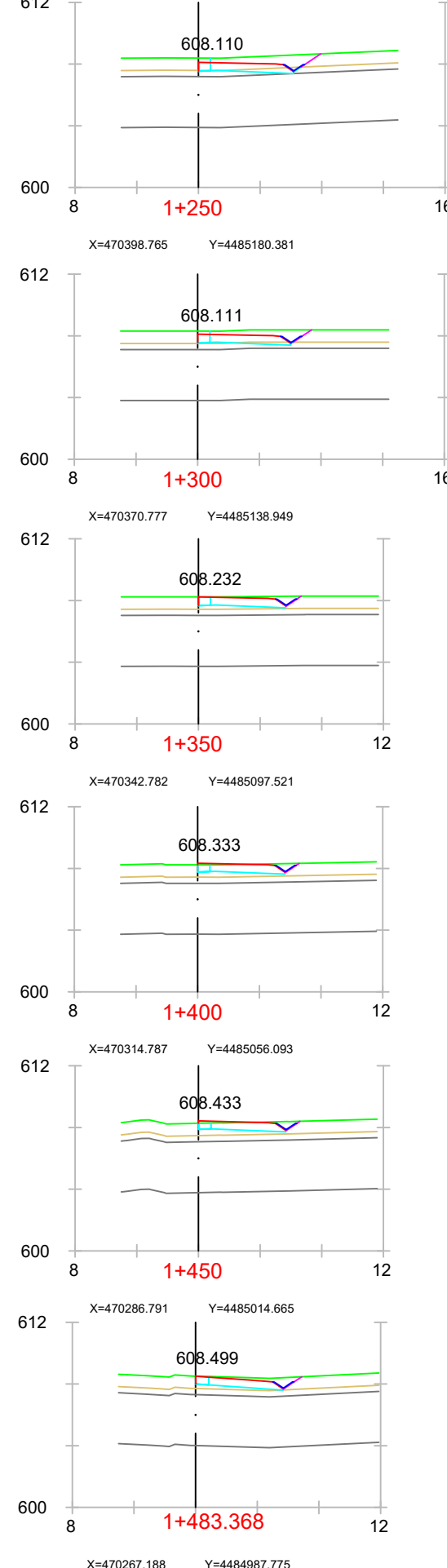
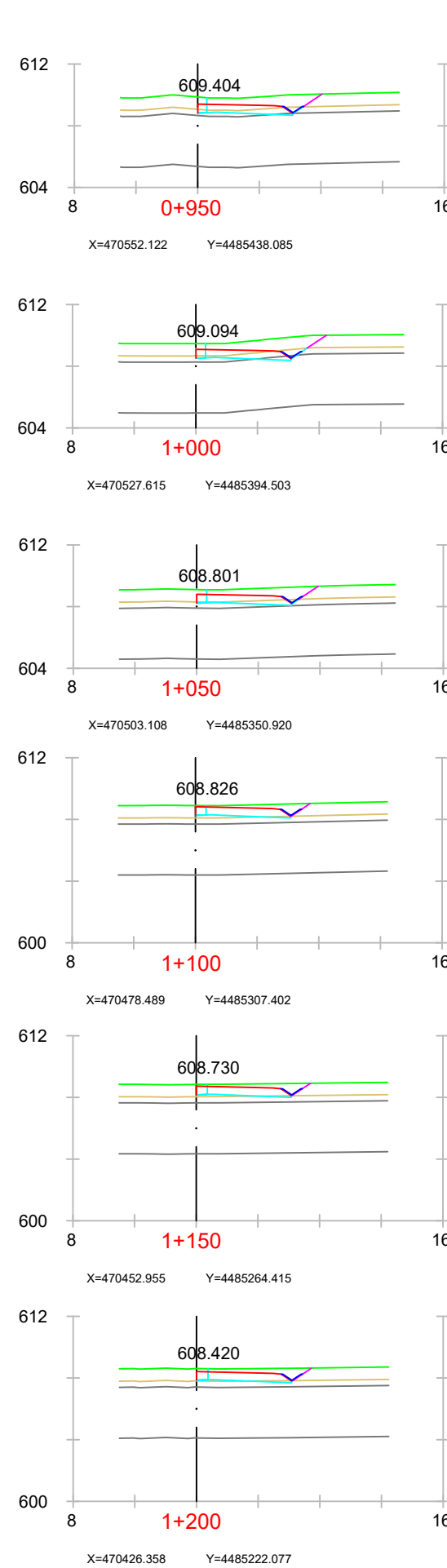
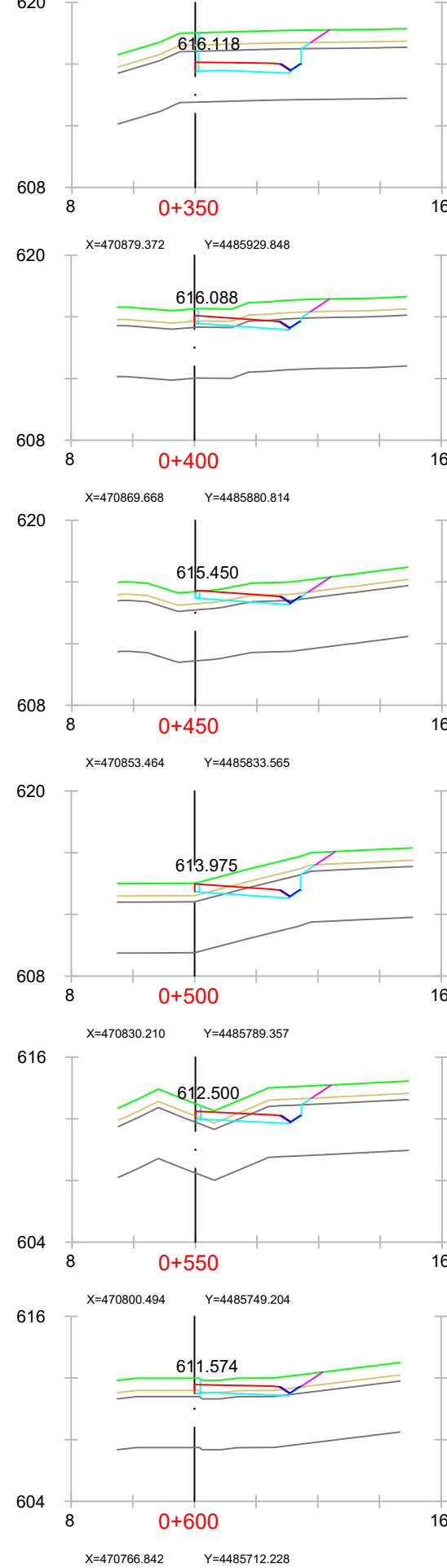




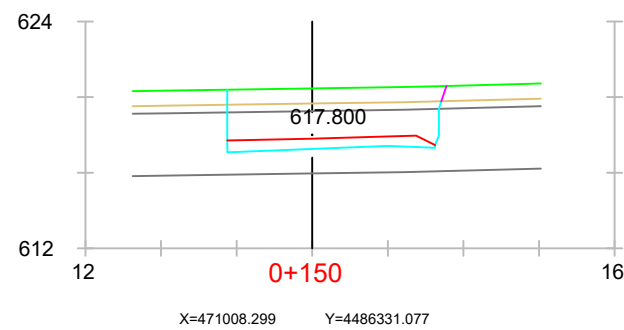
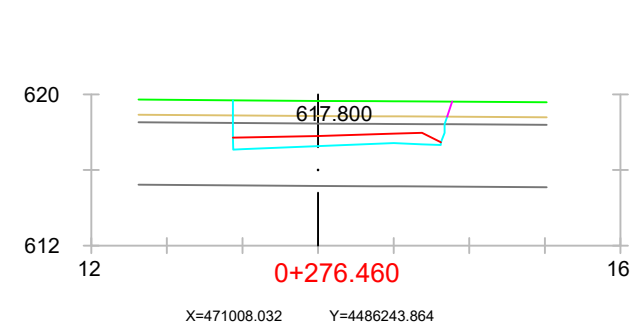
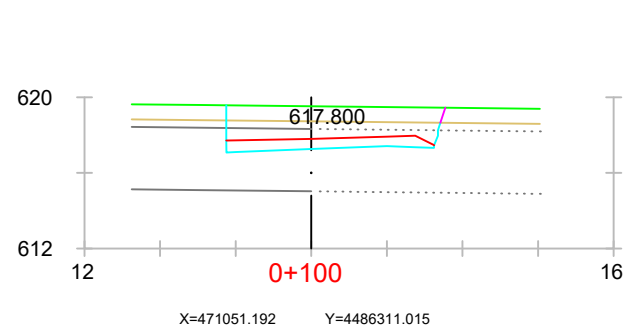
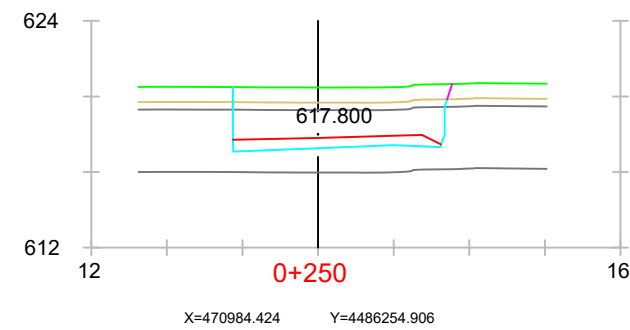
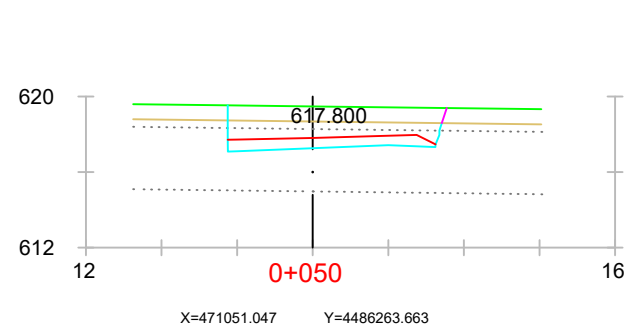
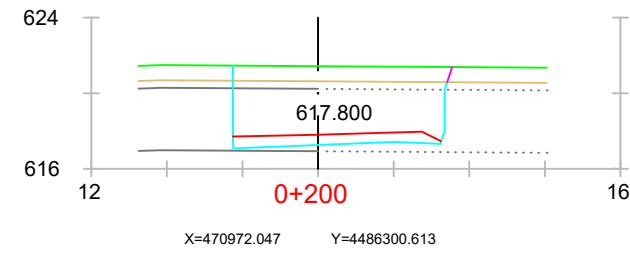
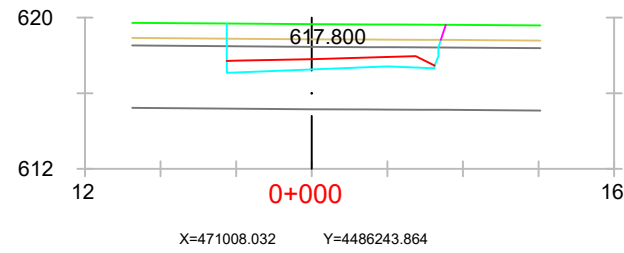




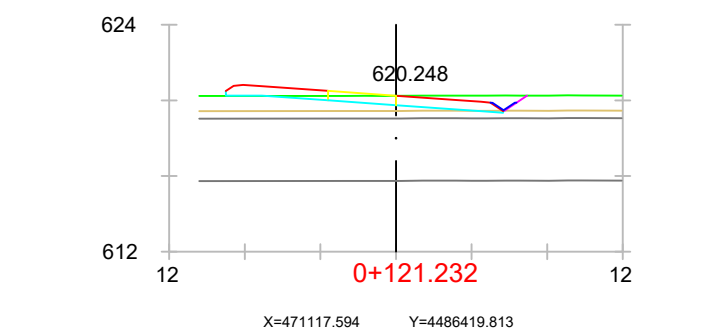
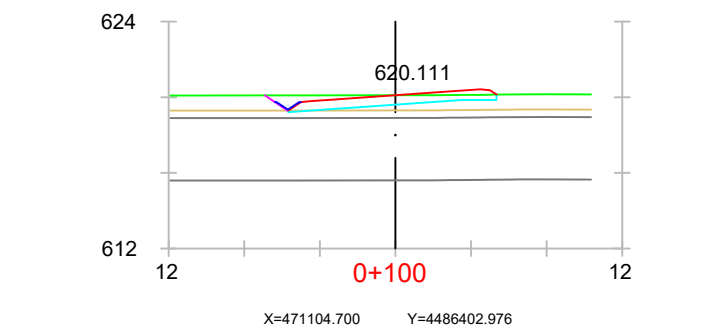
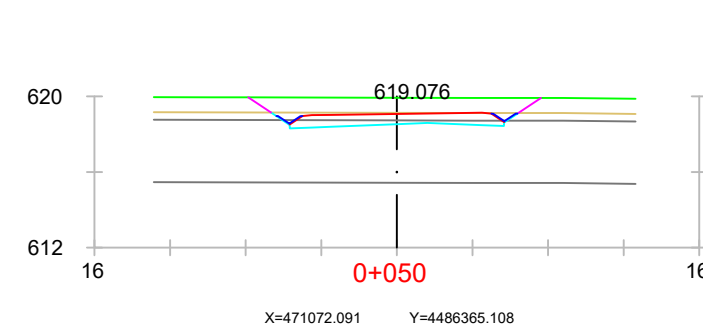
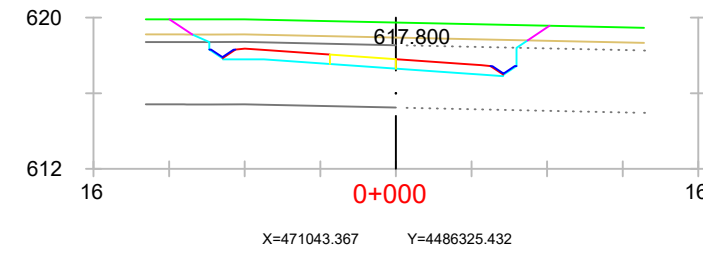




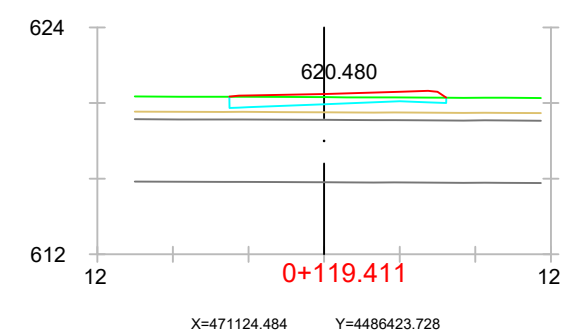
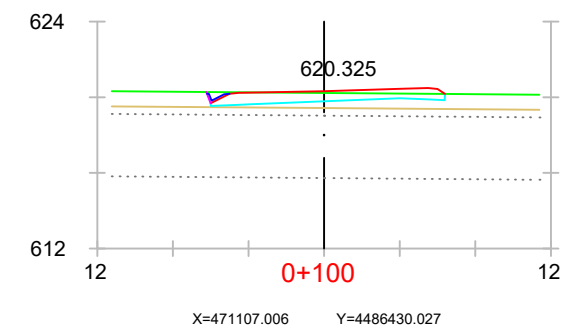
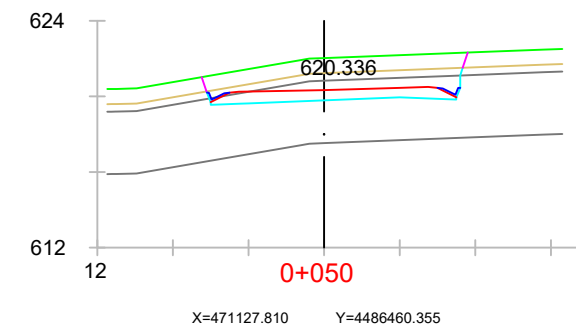
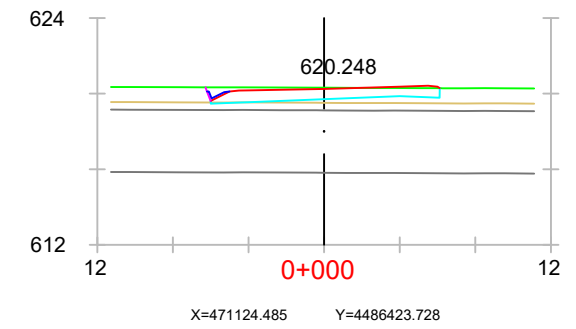
EJE 36  
PK 0+000 - 0+276.460



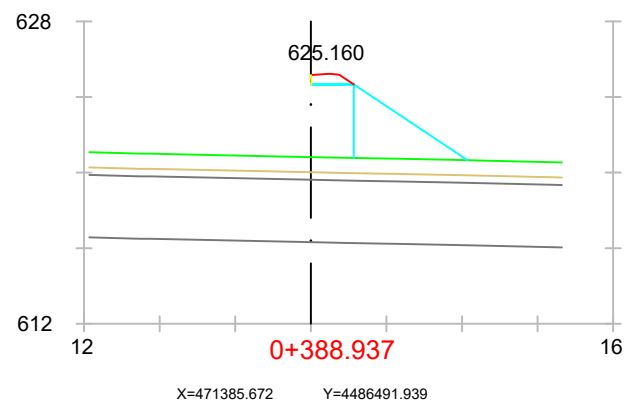
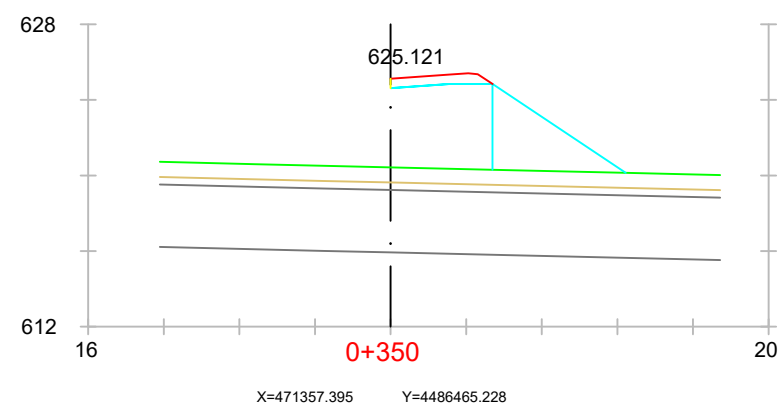
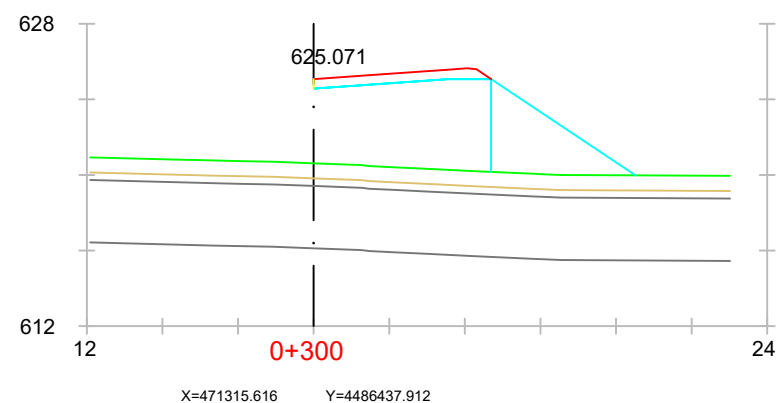
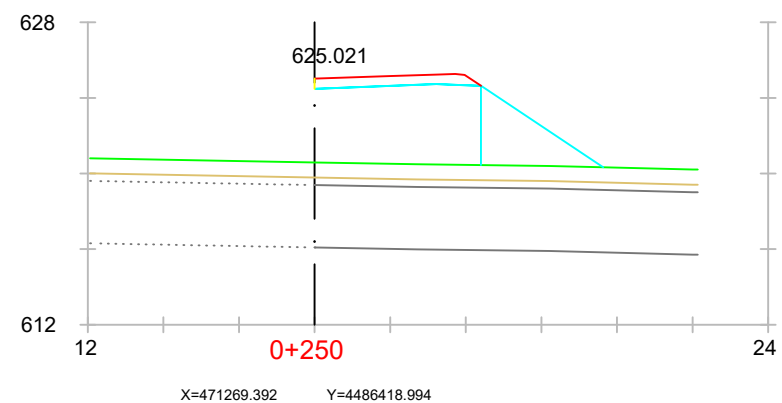
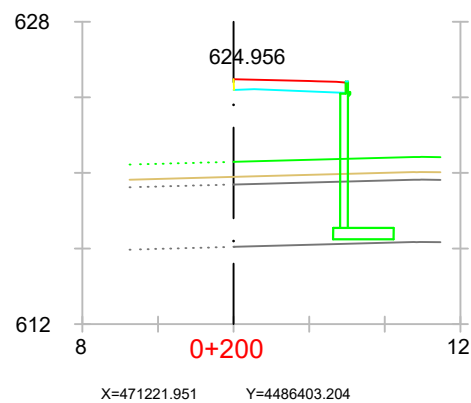
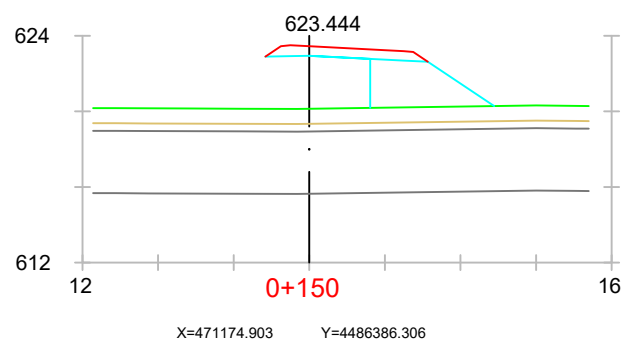
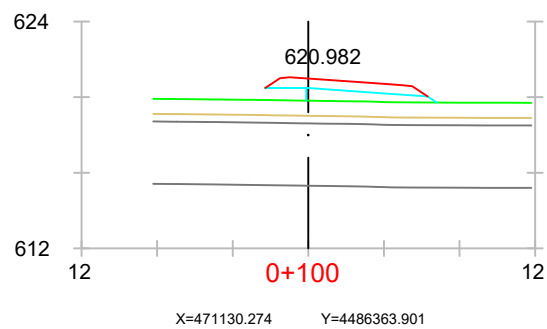
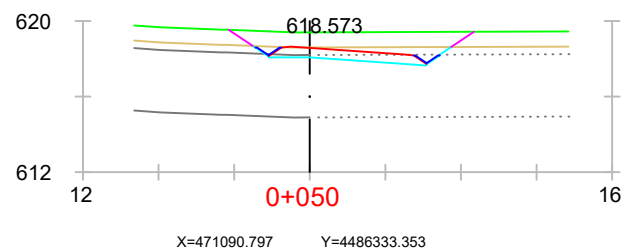
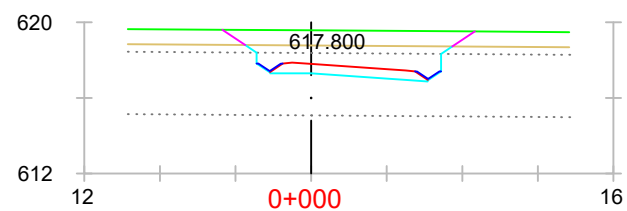
EJE 35  
PK 0+000 - 0+121.232



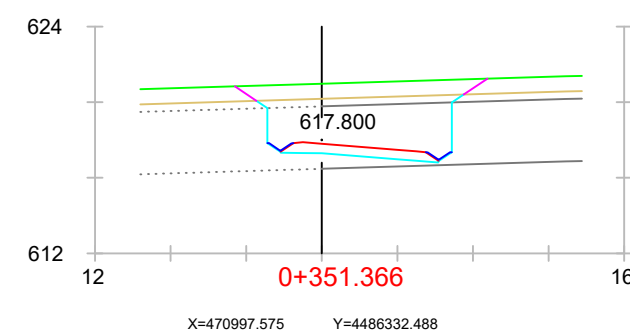
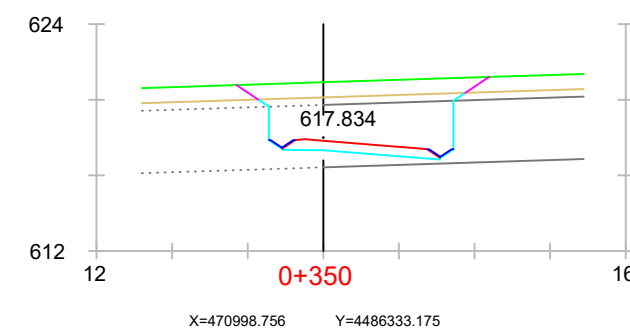
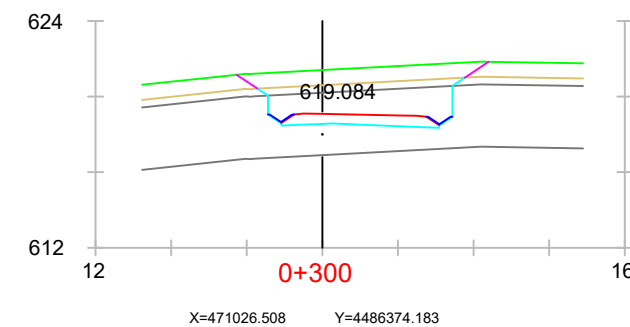
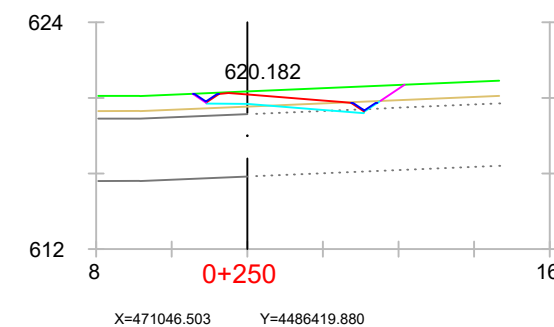
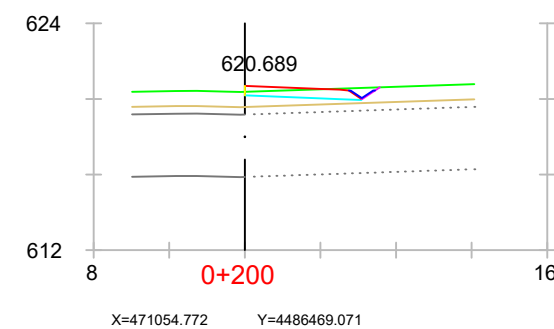
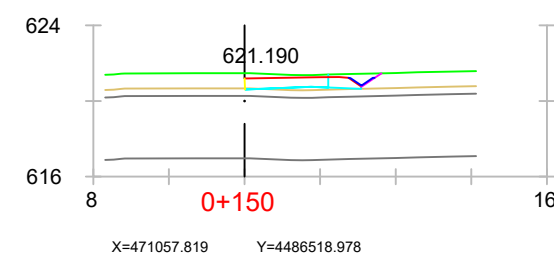
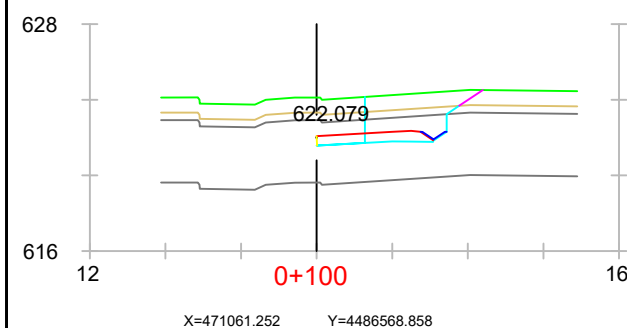
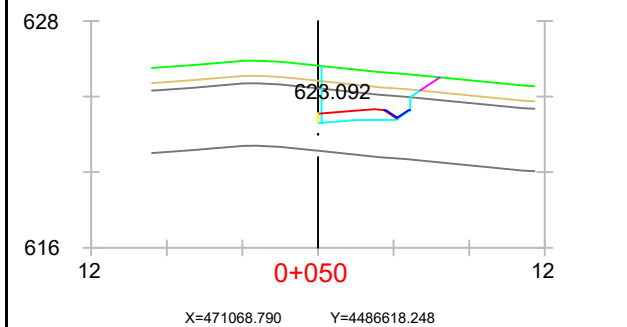
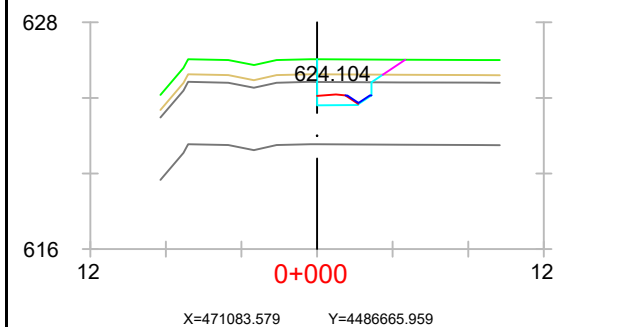
EJE 37  
PK 0+000 - 0+119.411



EJE 33  
PK 0+000 - 0+388.937



EJE 34  
PK 0+000 - 0+351.366



ORGANISMO



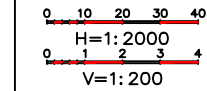
CONSULTOR



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ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

06-02.02.dwg

DESIGNACIÓN

PERFILES TRANSVERSALES  
ALTERNATIVA 2

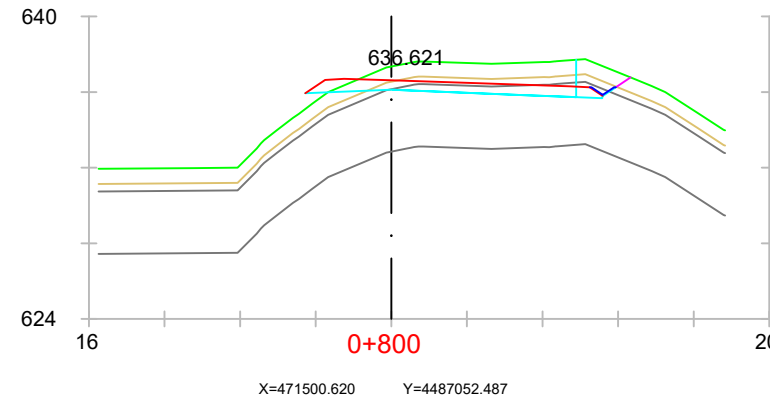
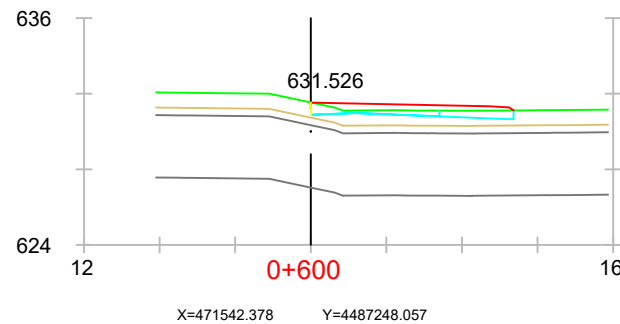
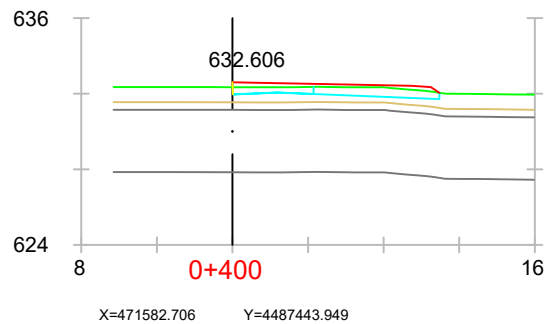
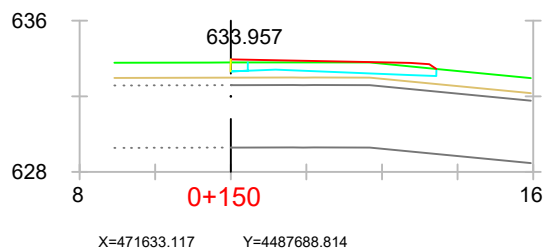
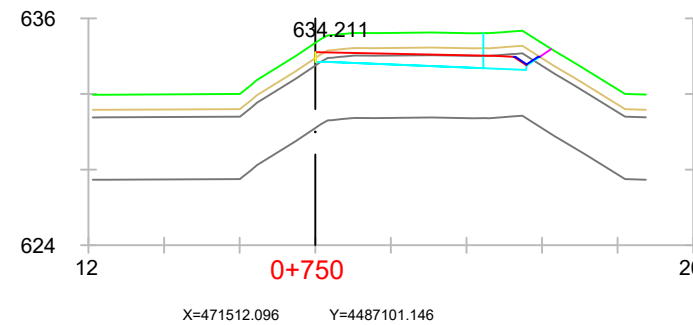
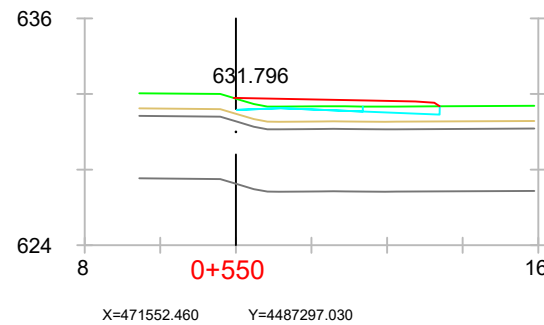
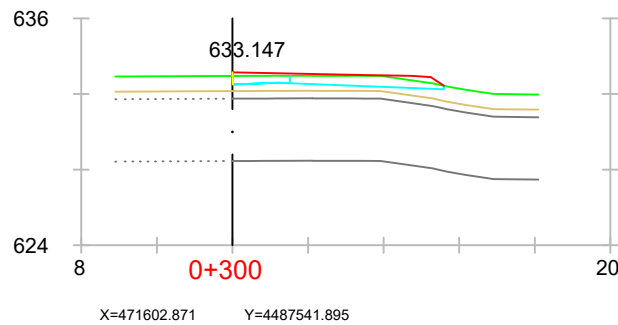
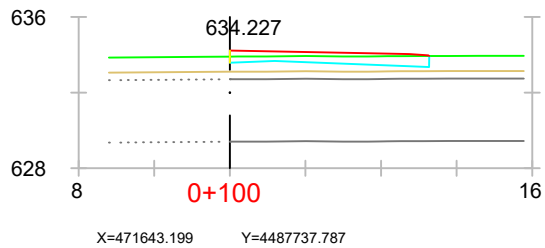
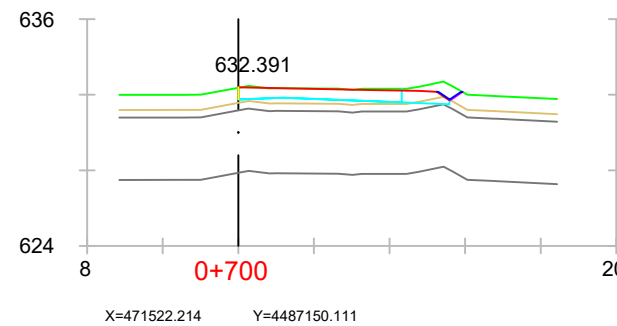
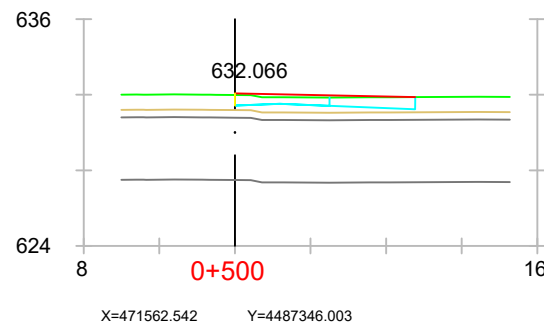
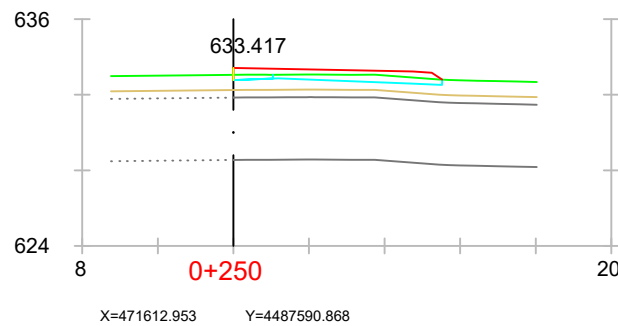
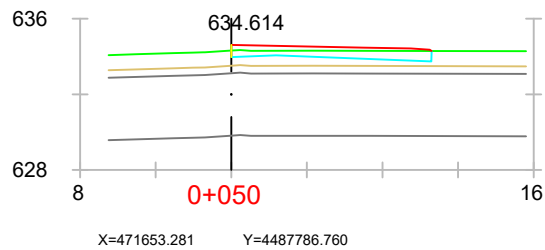
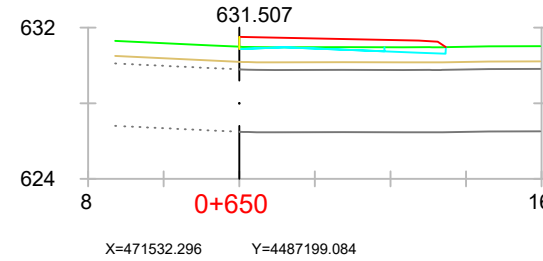
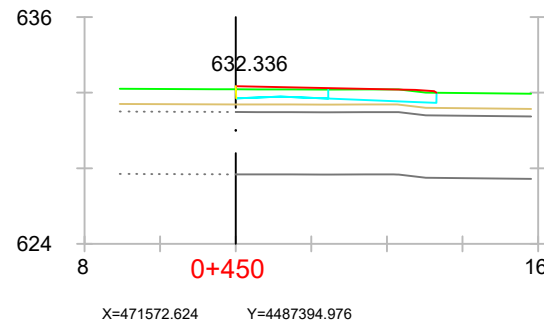
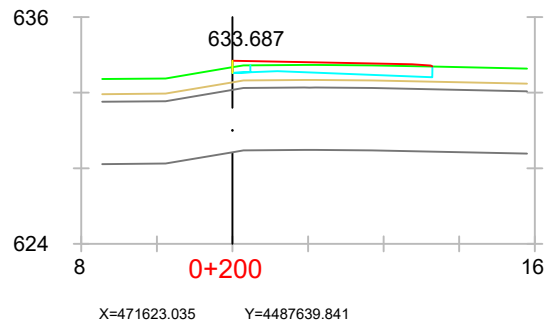
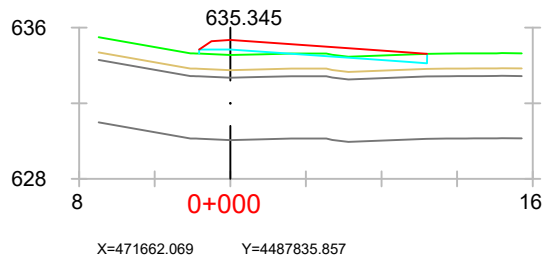
Nº PLANO

06-02.02

HOJA 14 DE 17



EJE 38  
PK 0+000 - 0+800



ORGANISMO



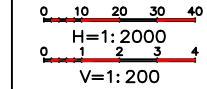
CONSULTOR



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ESCALAS



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FECHA

JUNIO 2023

FICHERO

06-02.02.dwg

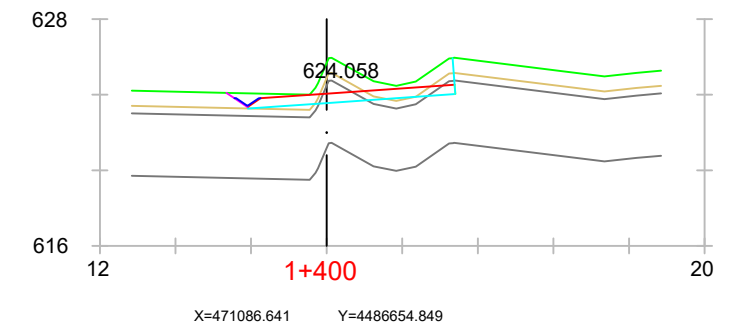
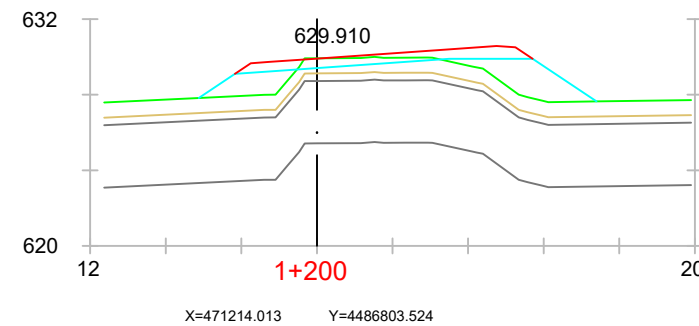
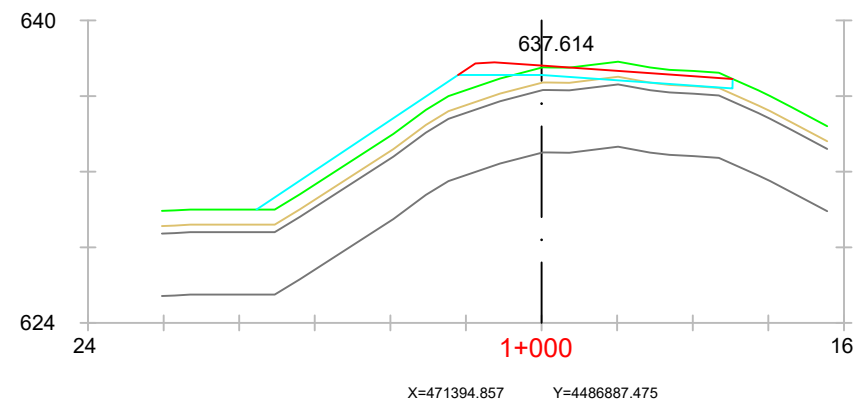
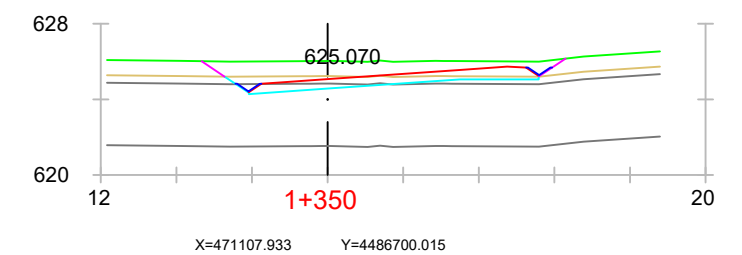
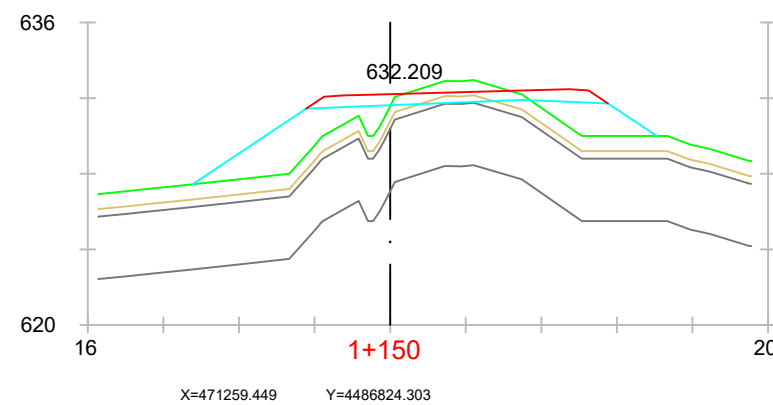
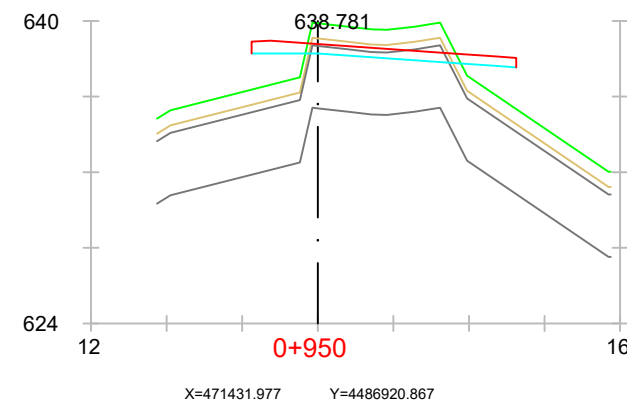
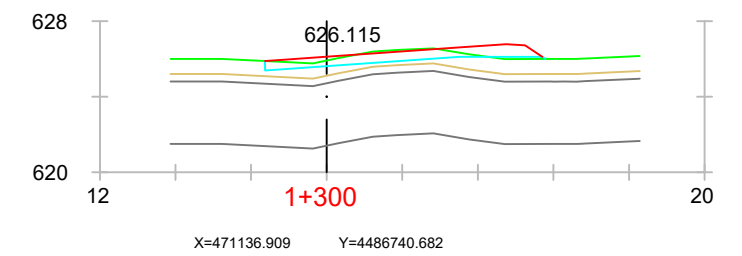
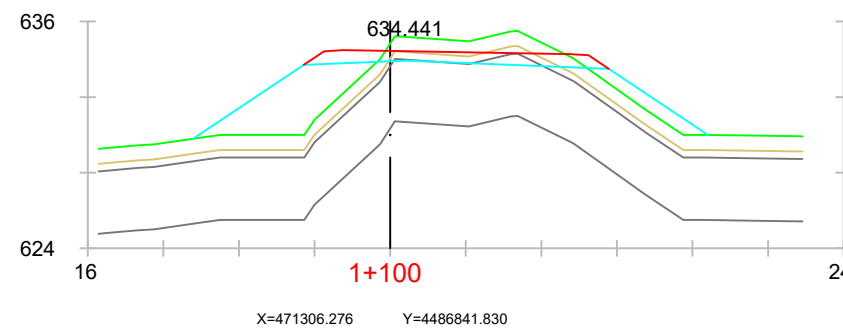
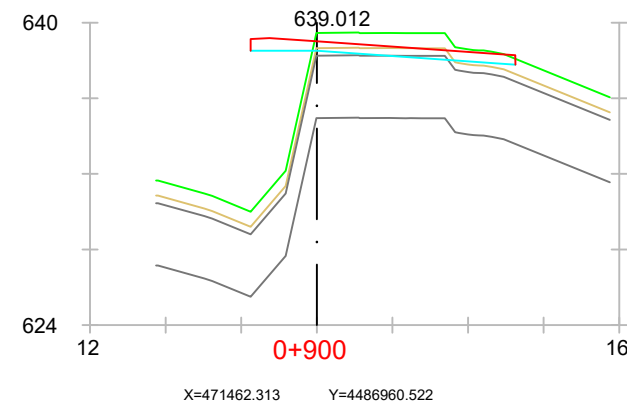
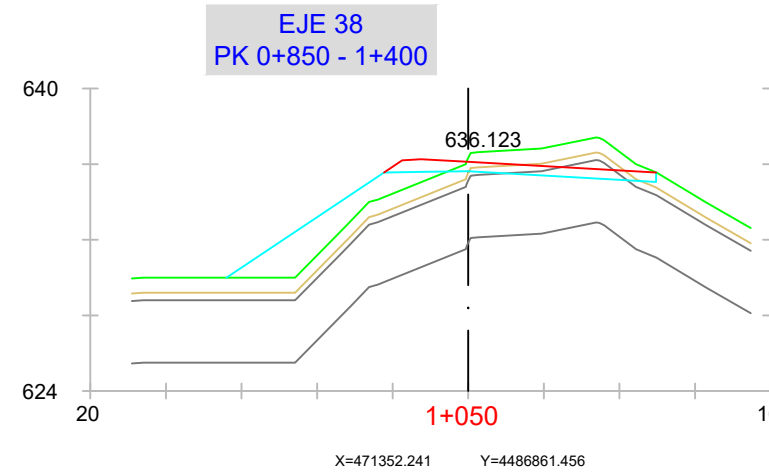
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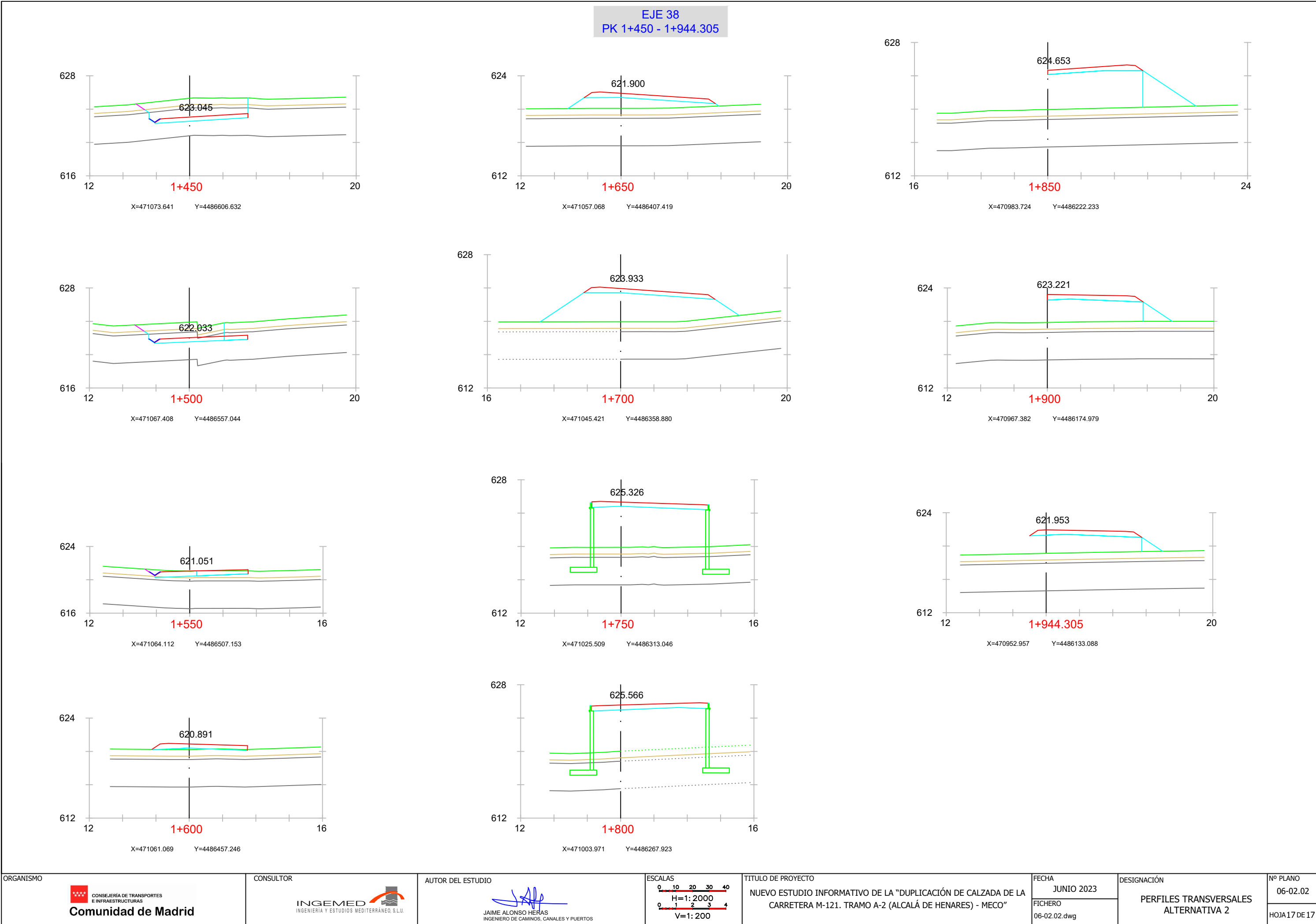
PERFILES TRANSVERSALES  
ALTERNATIVA 2

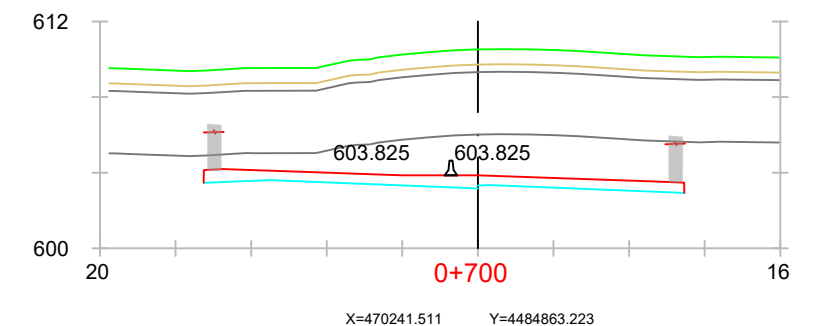
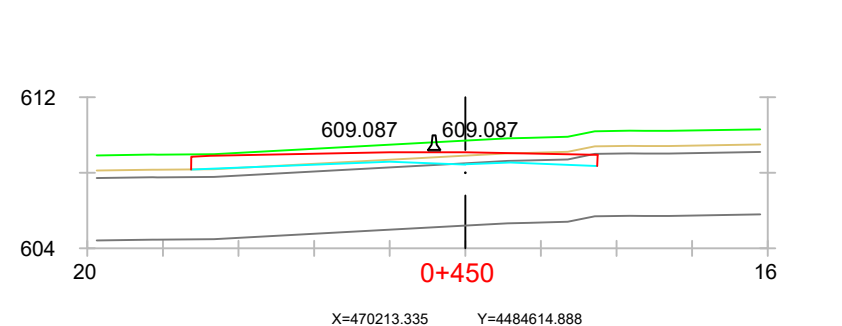
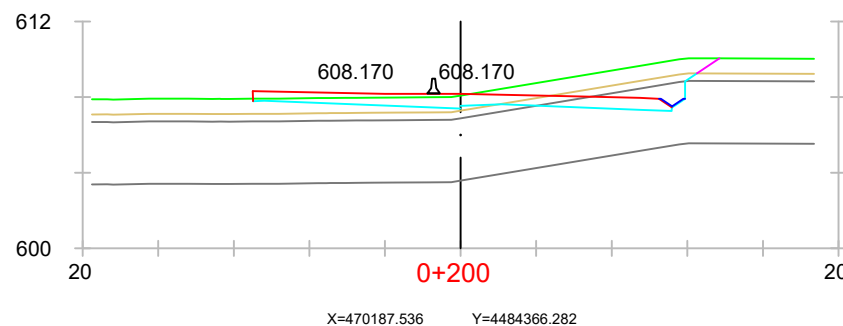
Nº PLANO

06-02.02

HOJA 15 DE 17

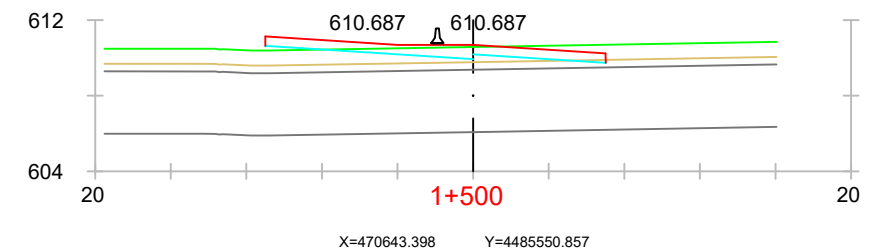
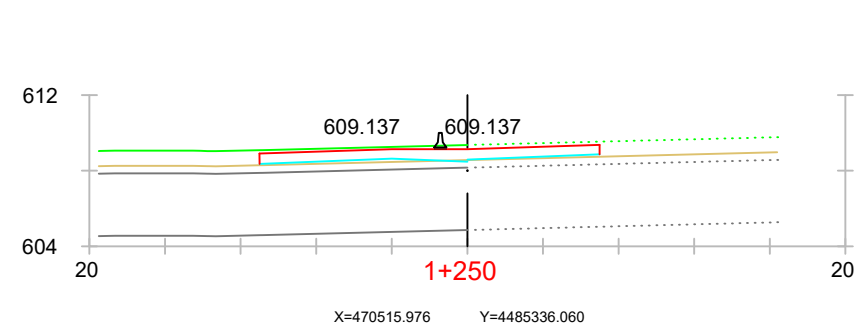
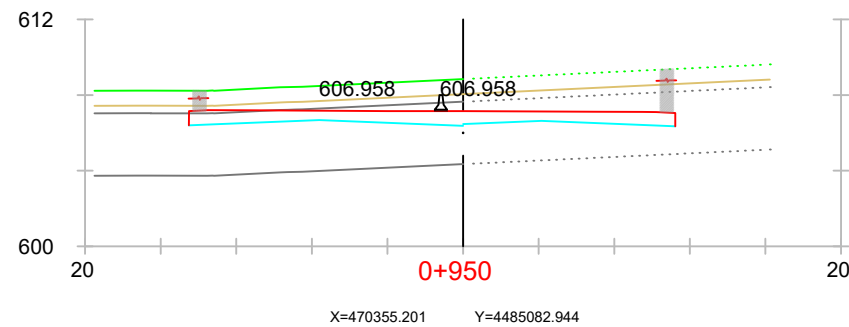
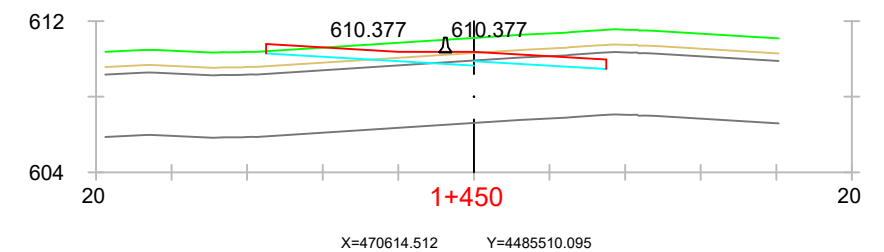
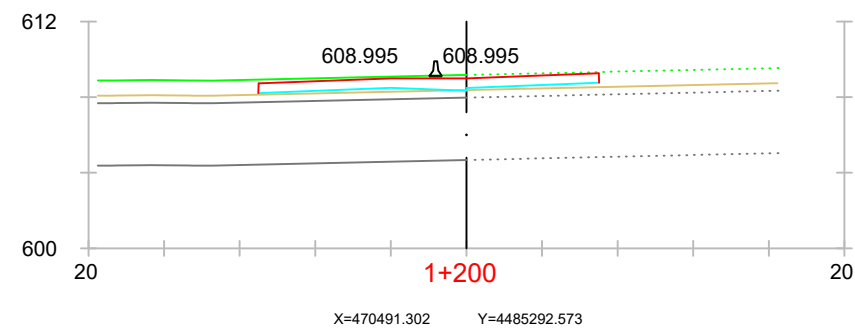
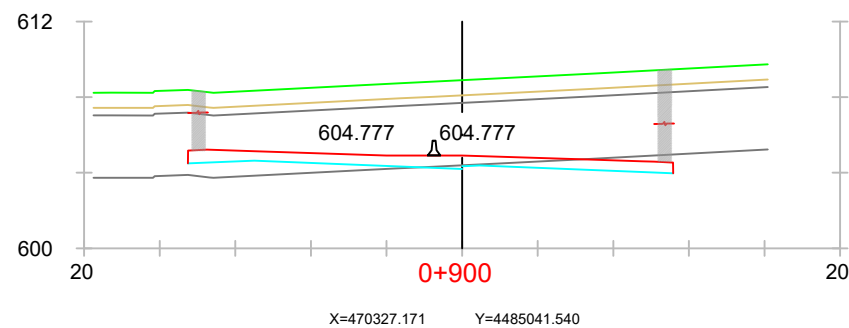
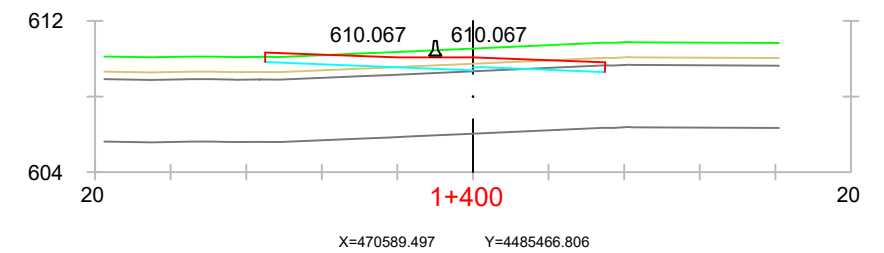
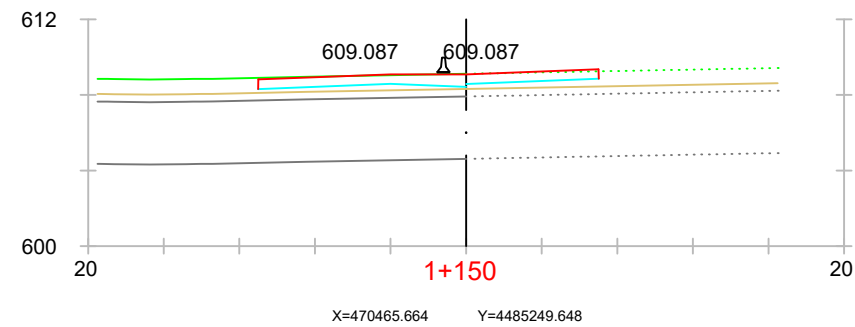
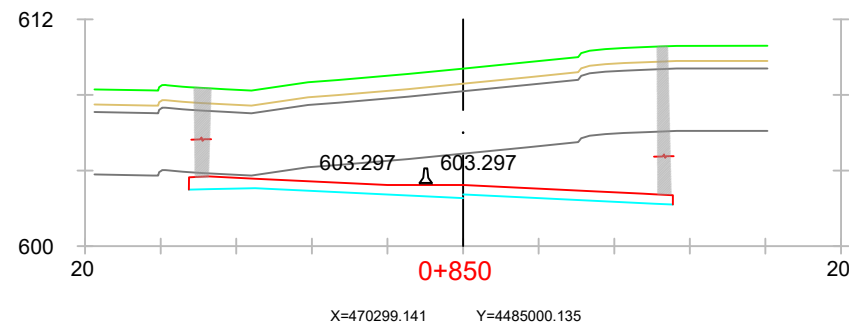
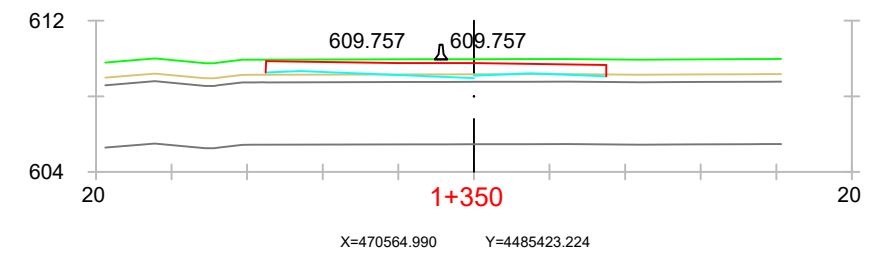
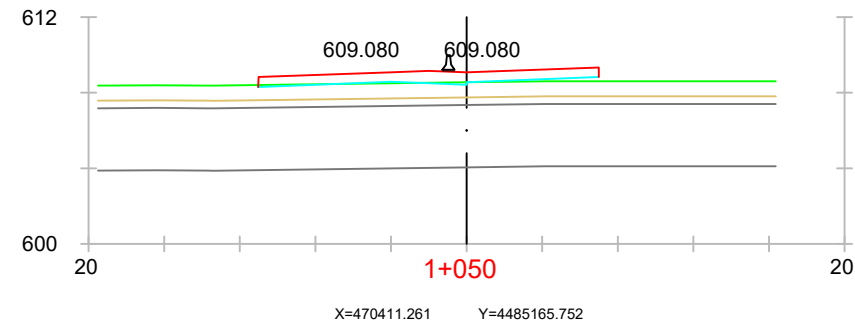
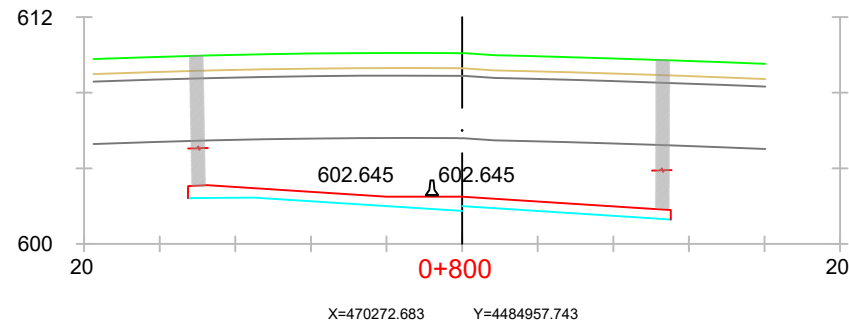
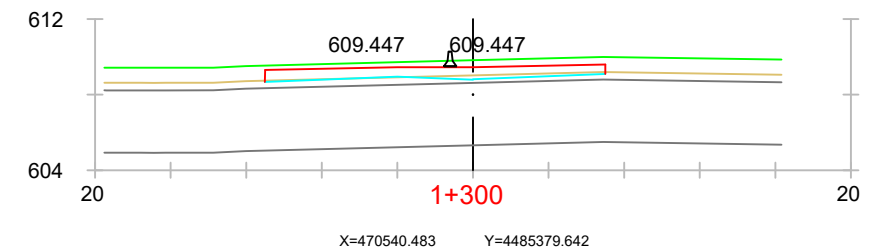
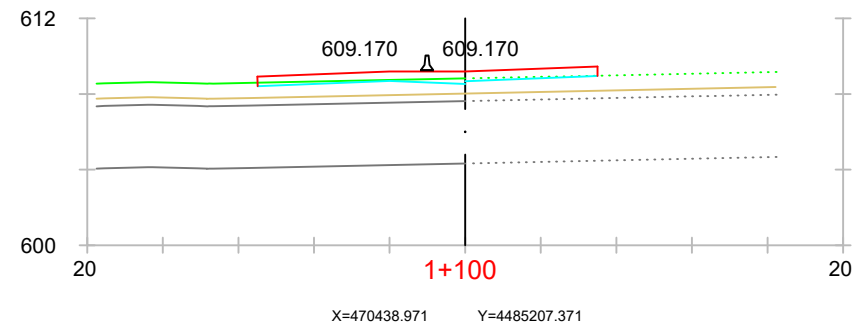
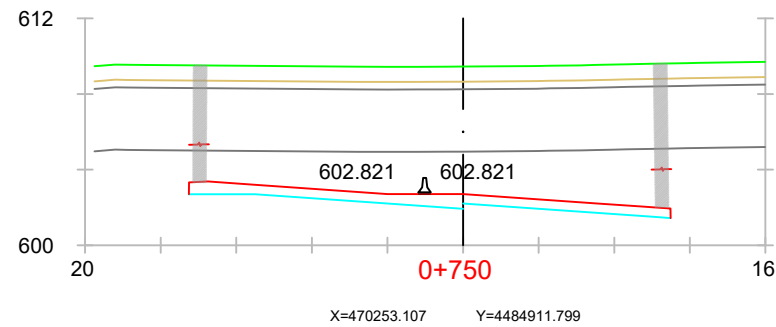


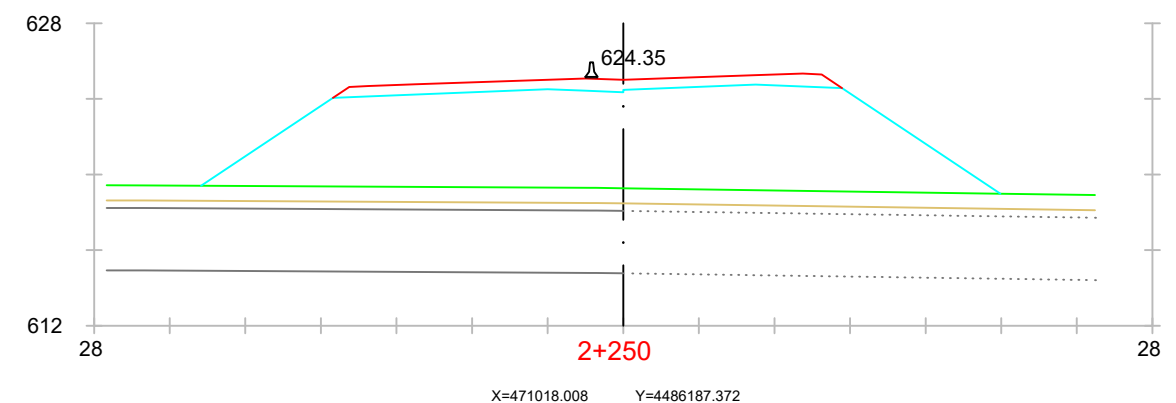
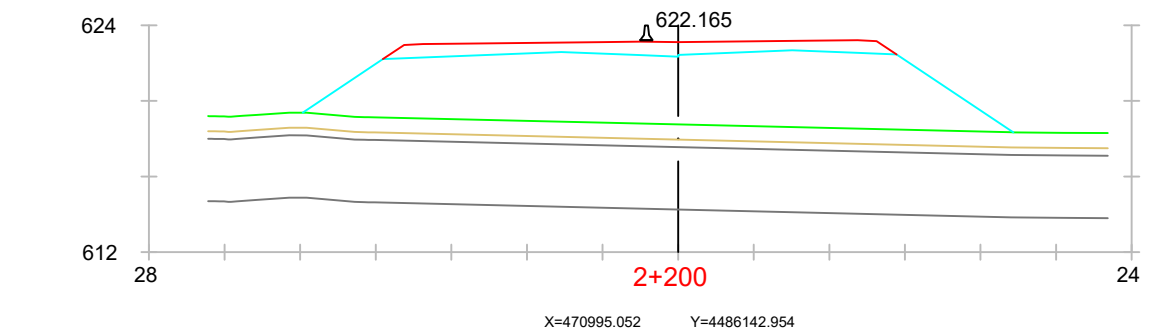
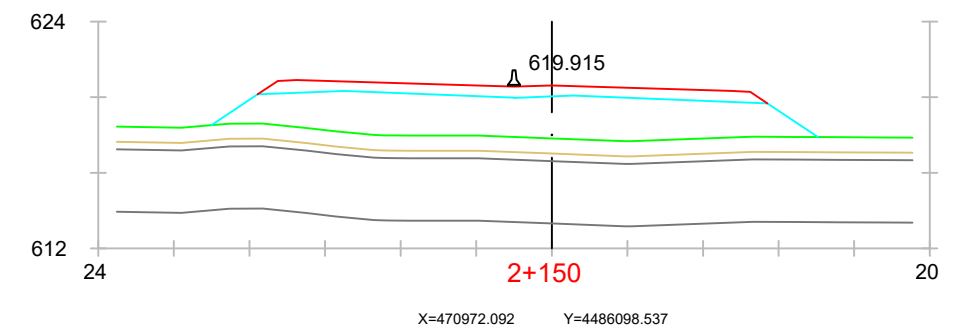
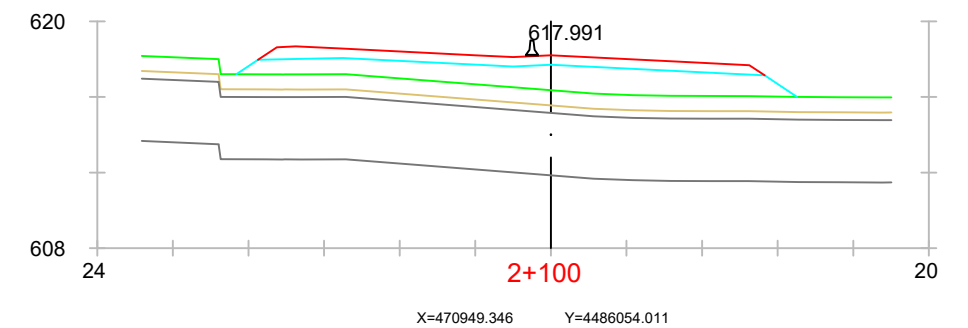
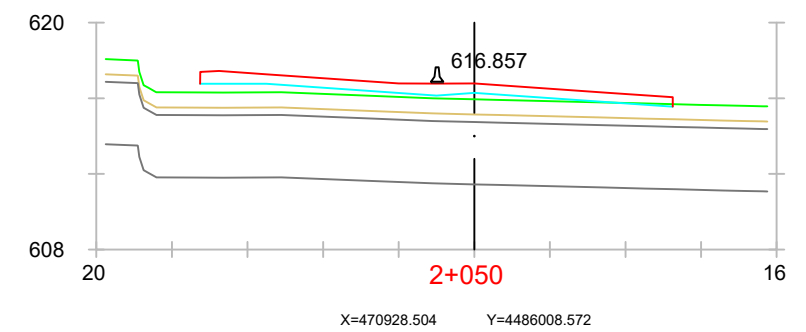


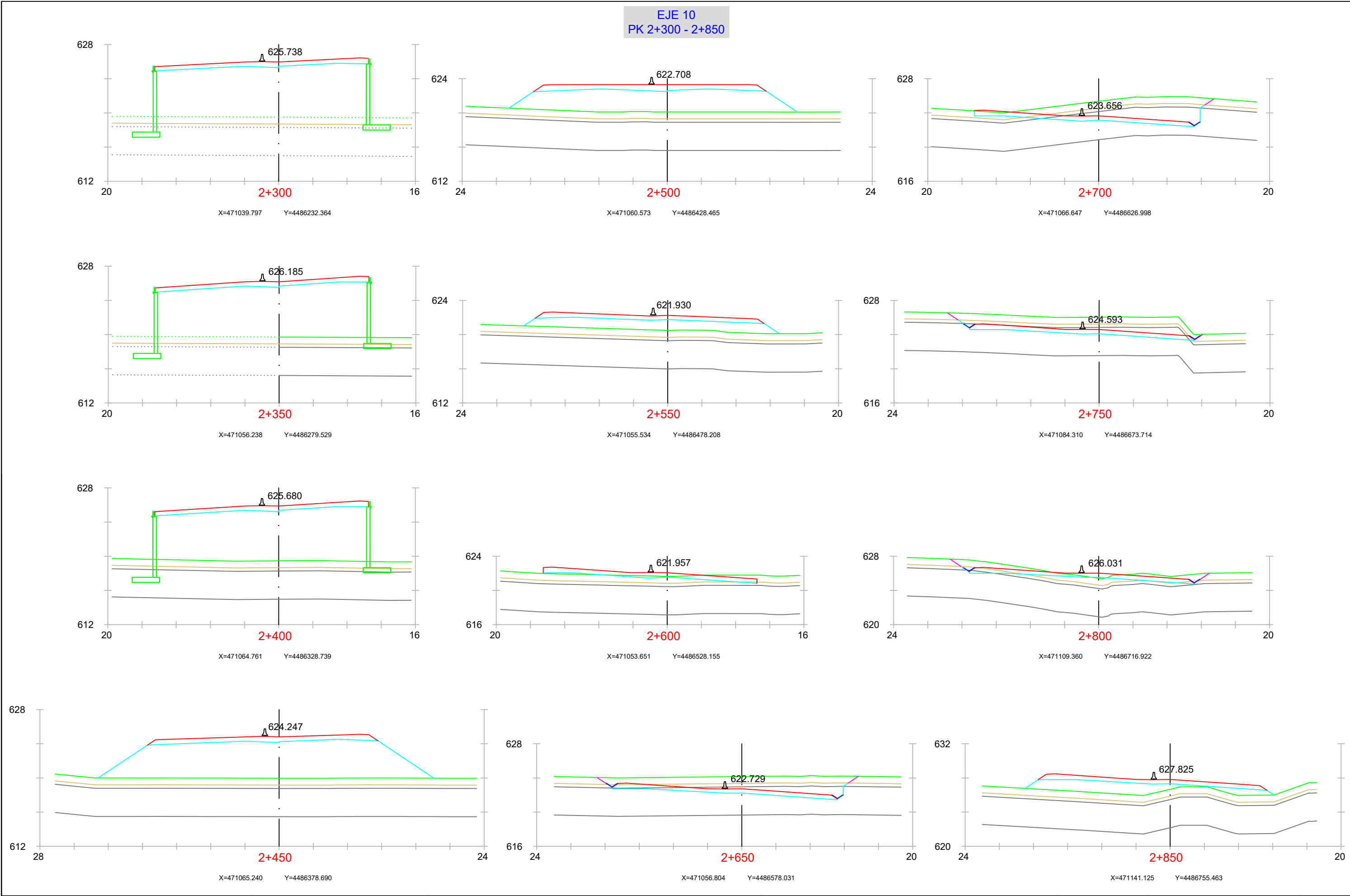




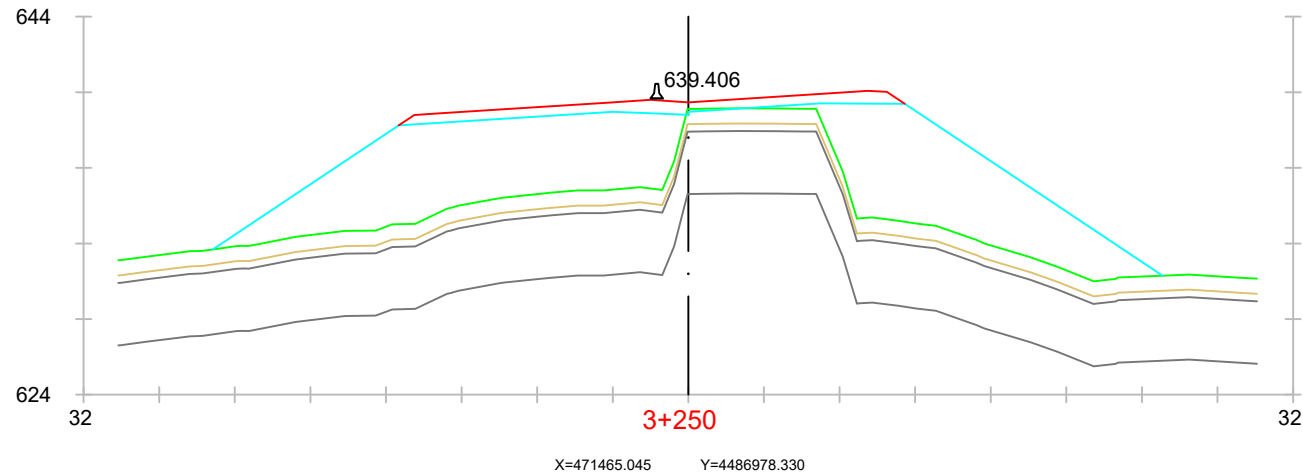
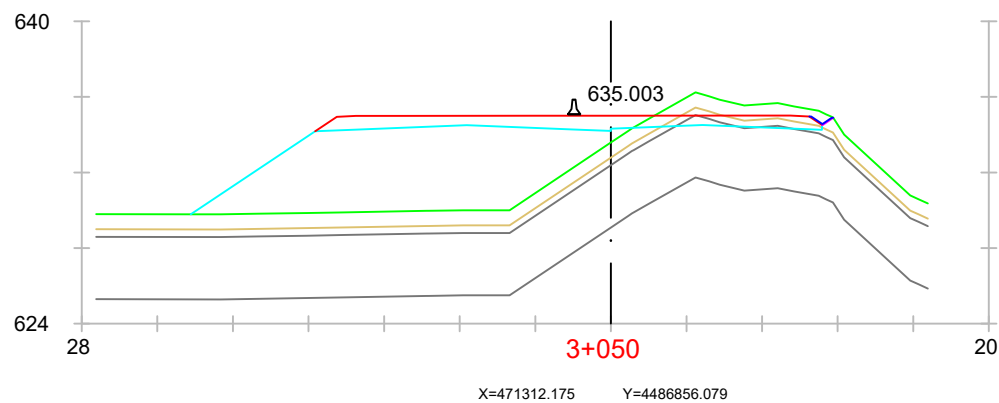
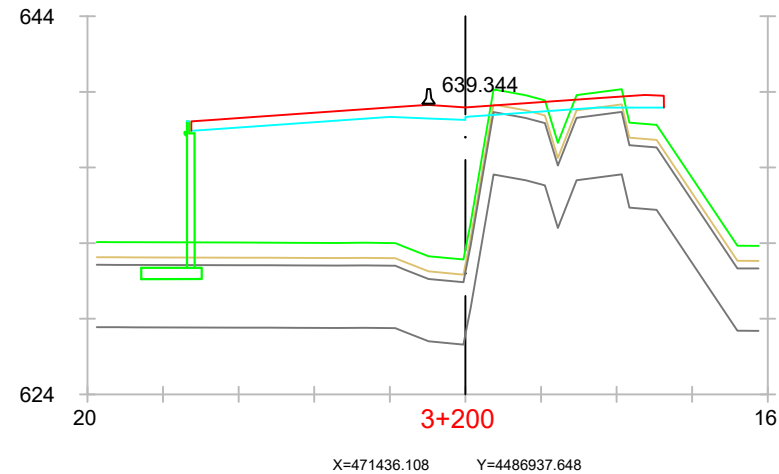
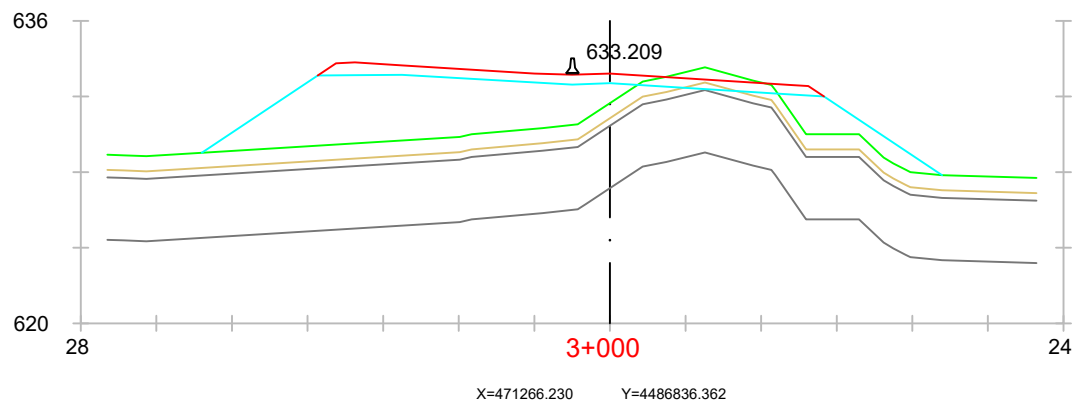
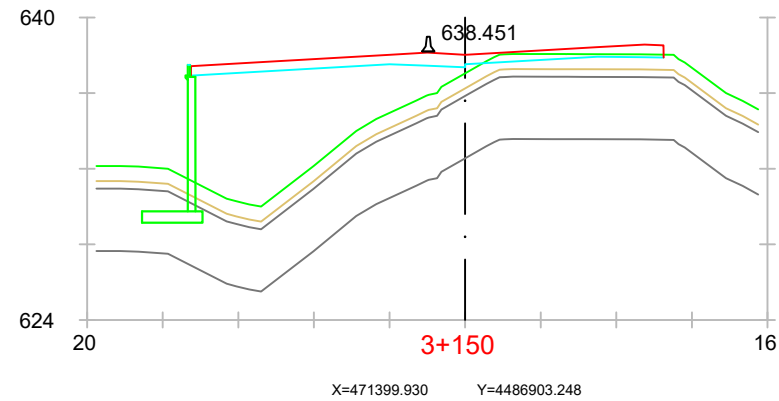
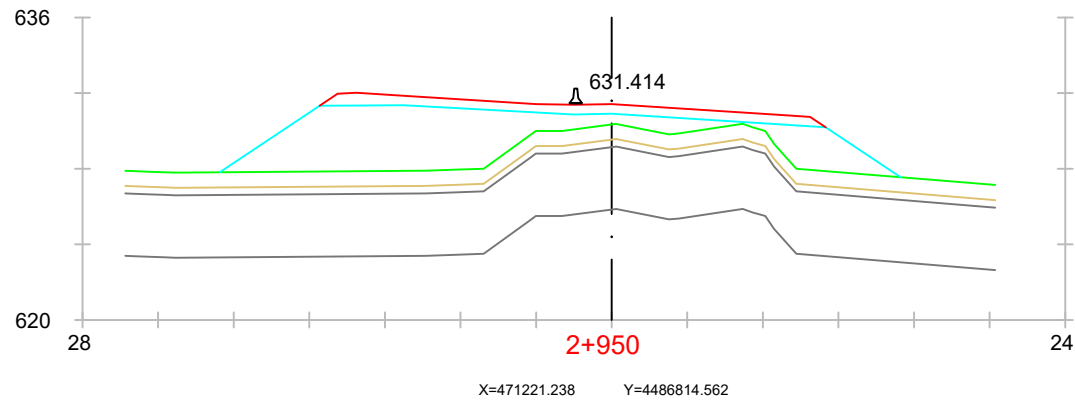
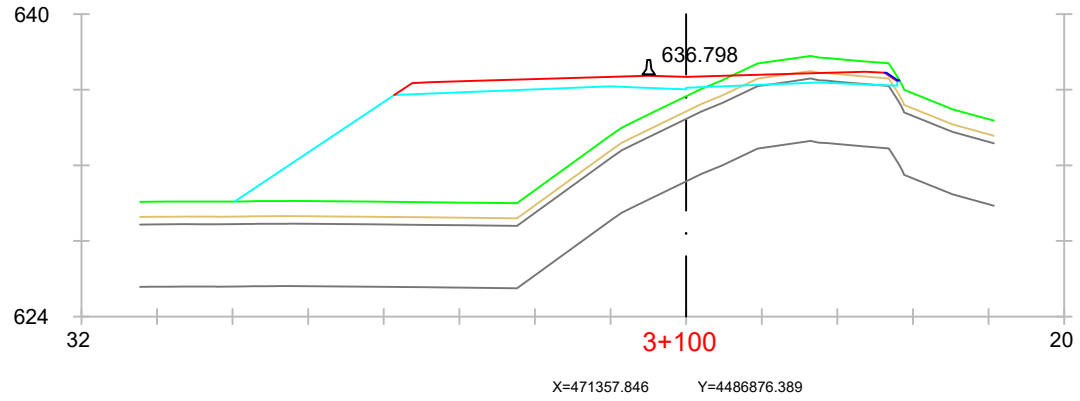
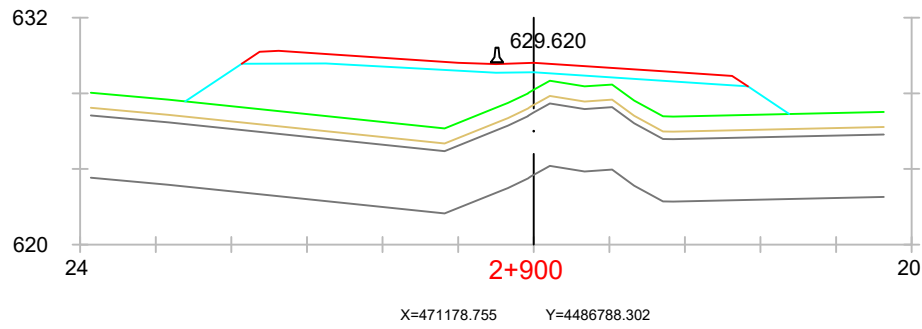
EJE 10  
PK 0+750 - 1+500





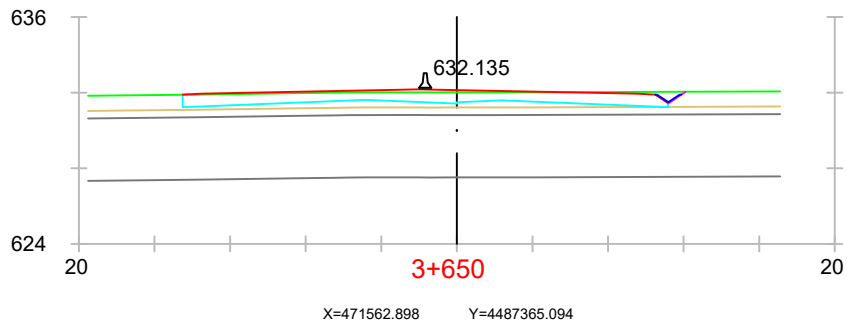
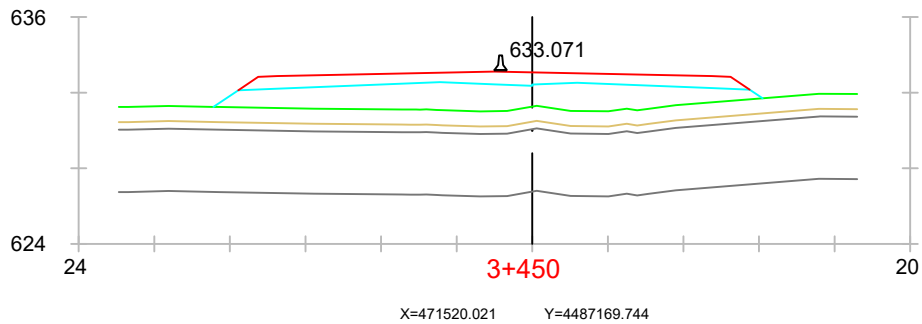
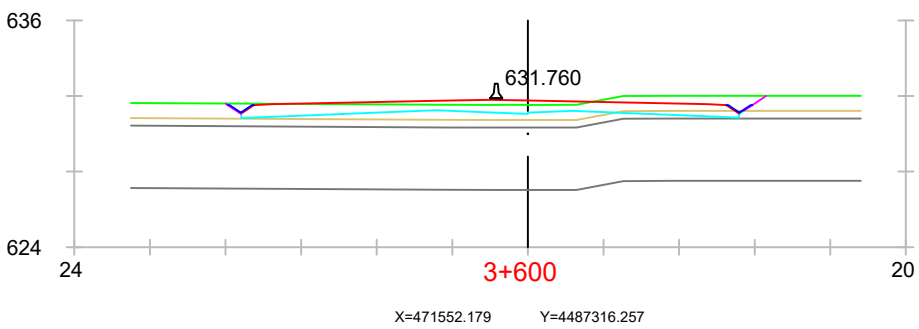
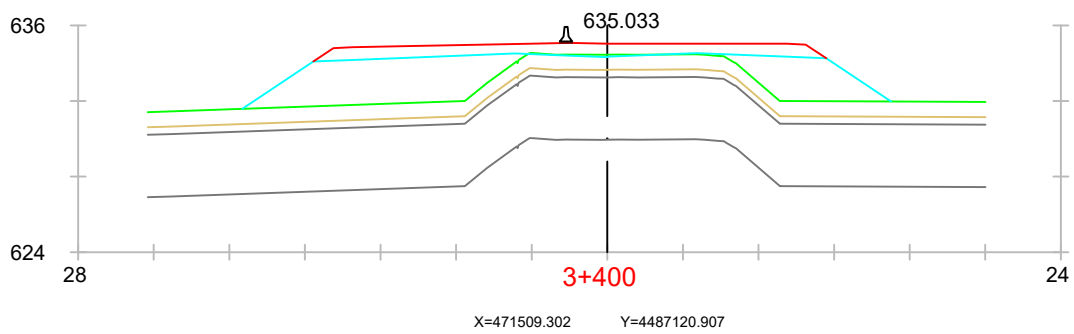
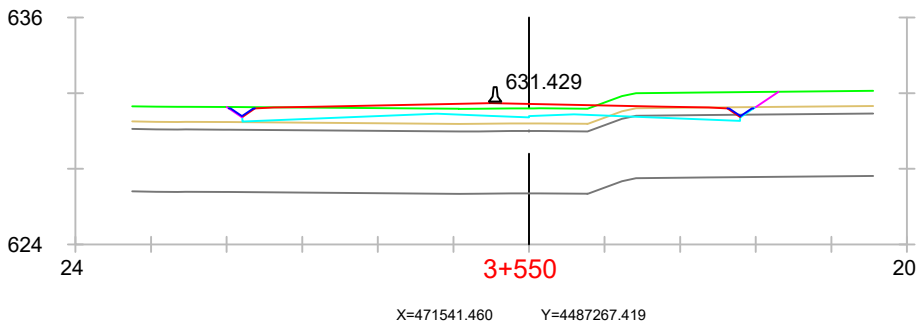
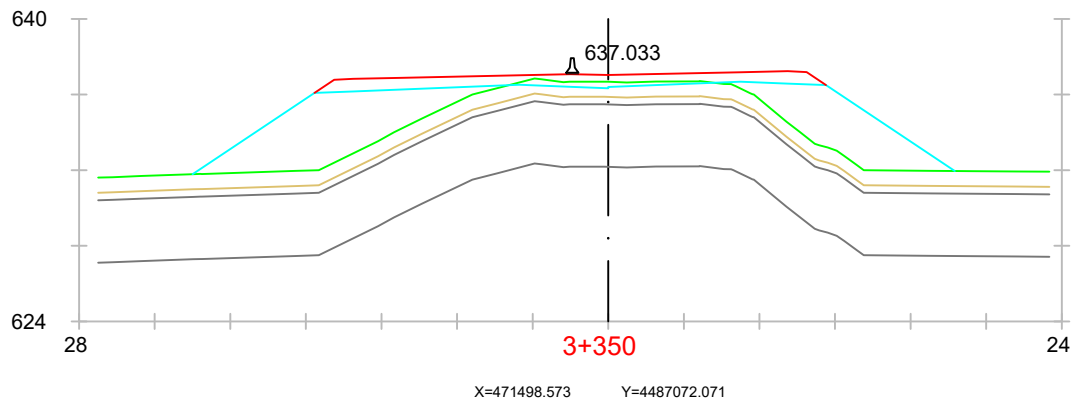
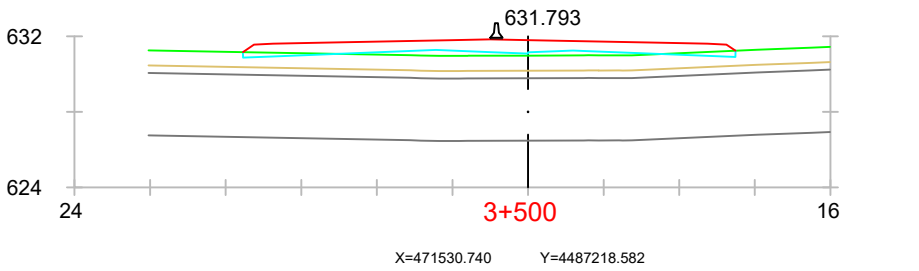
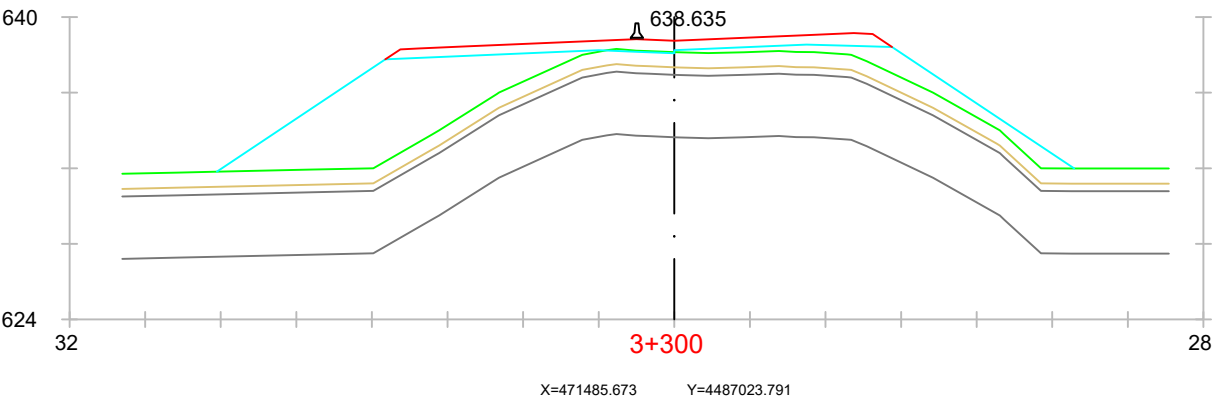


EJE 10  
PK 2+900 - 3+250

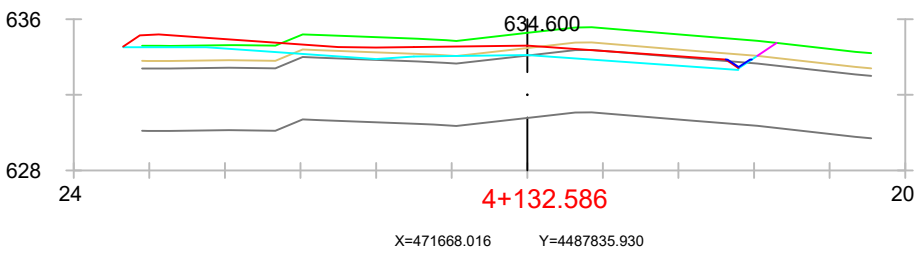
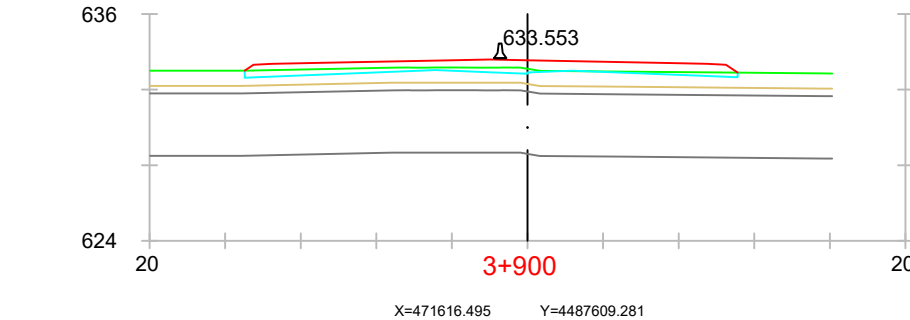
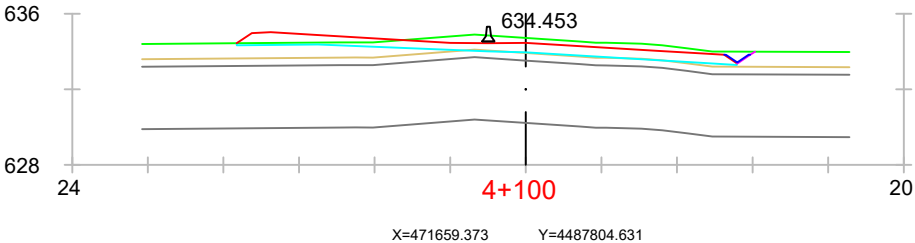
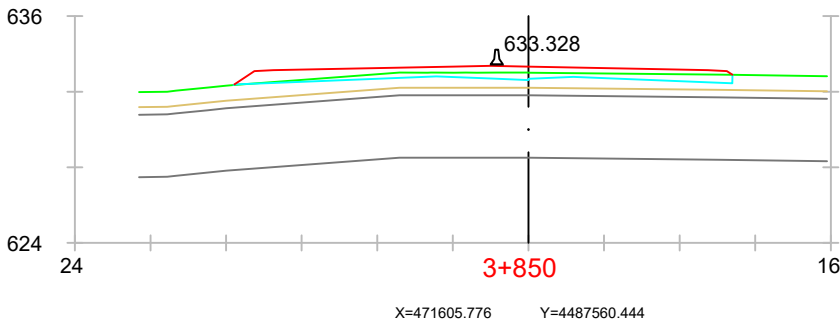
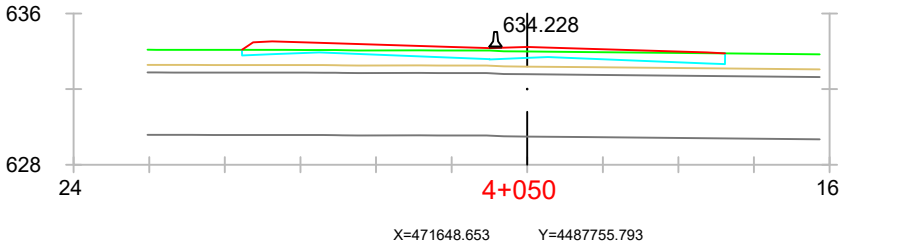
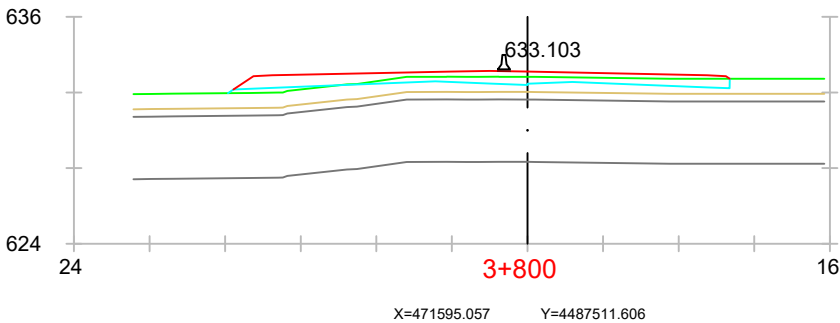
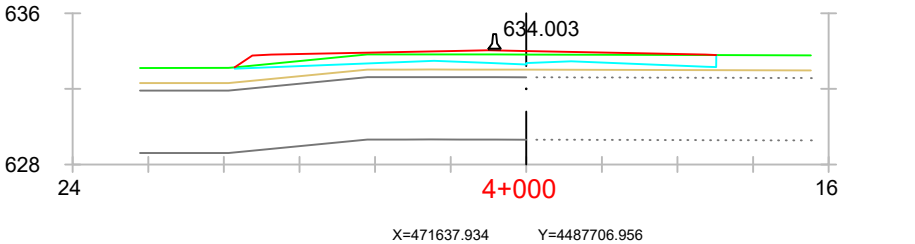
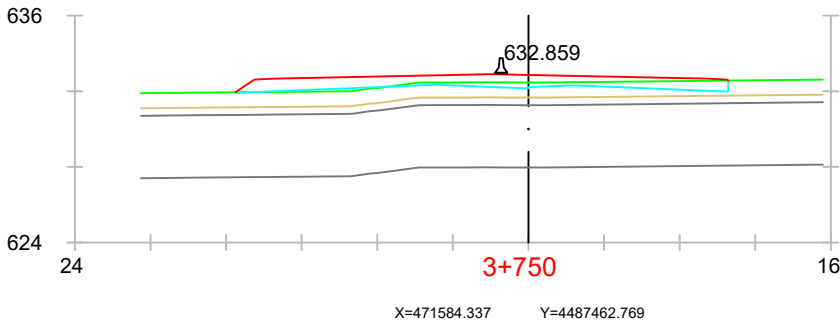
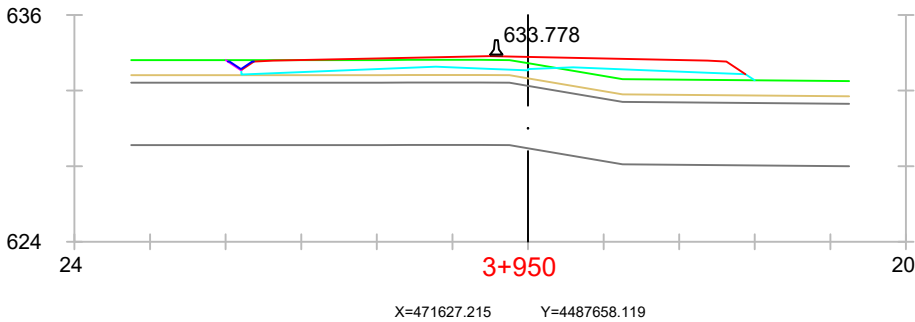
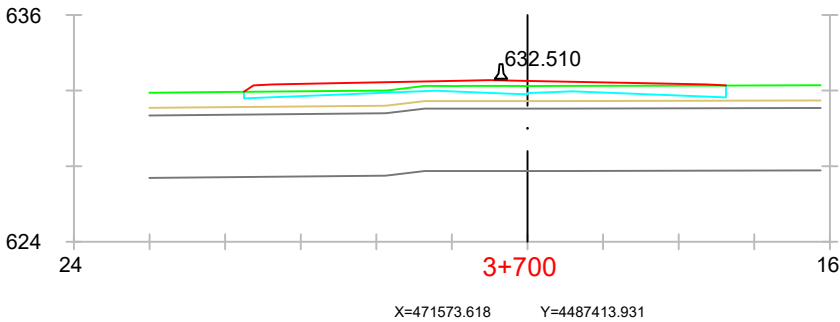


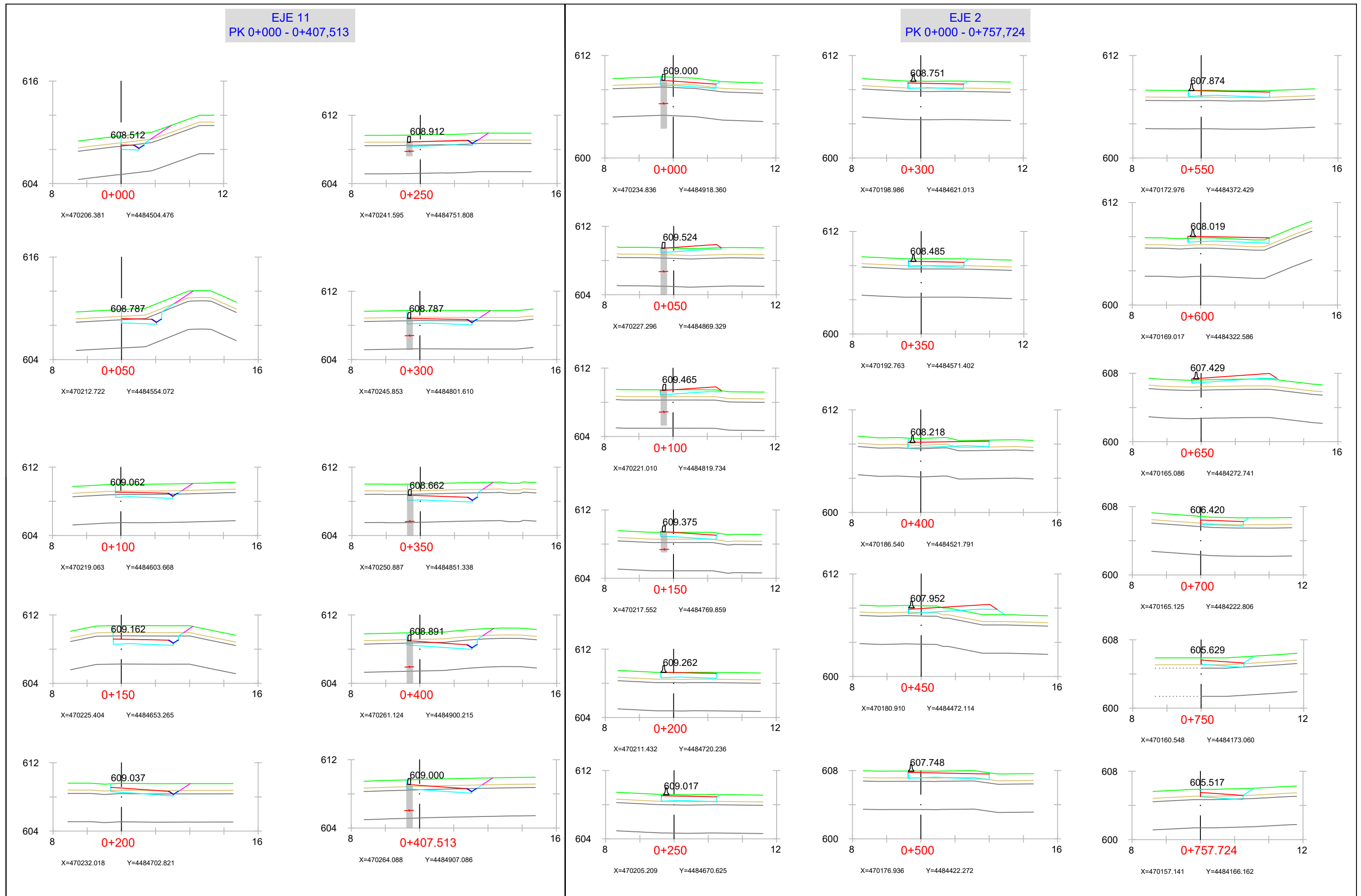


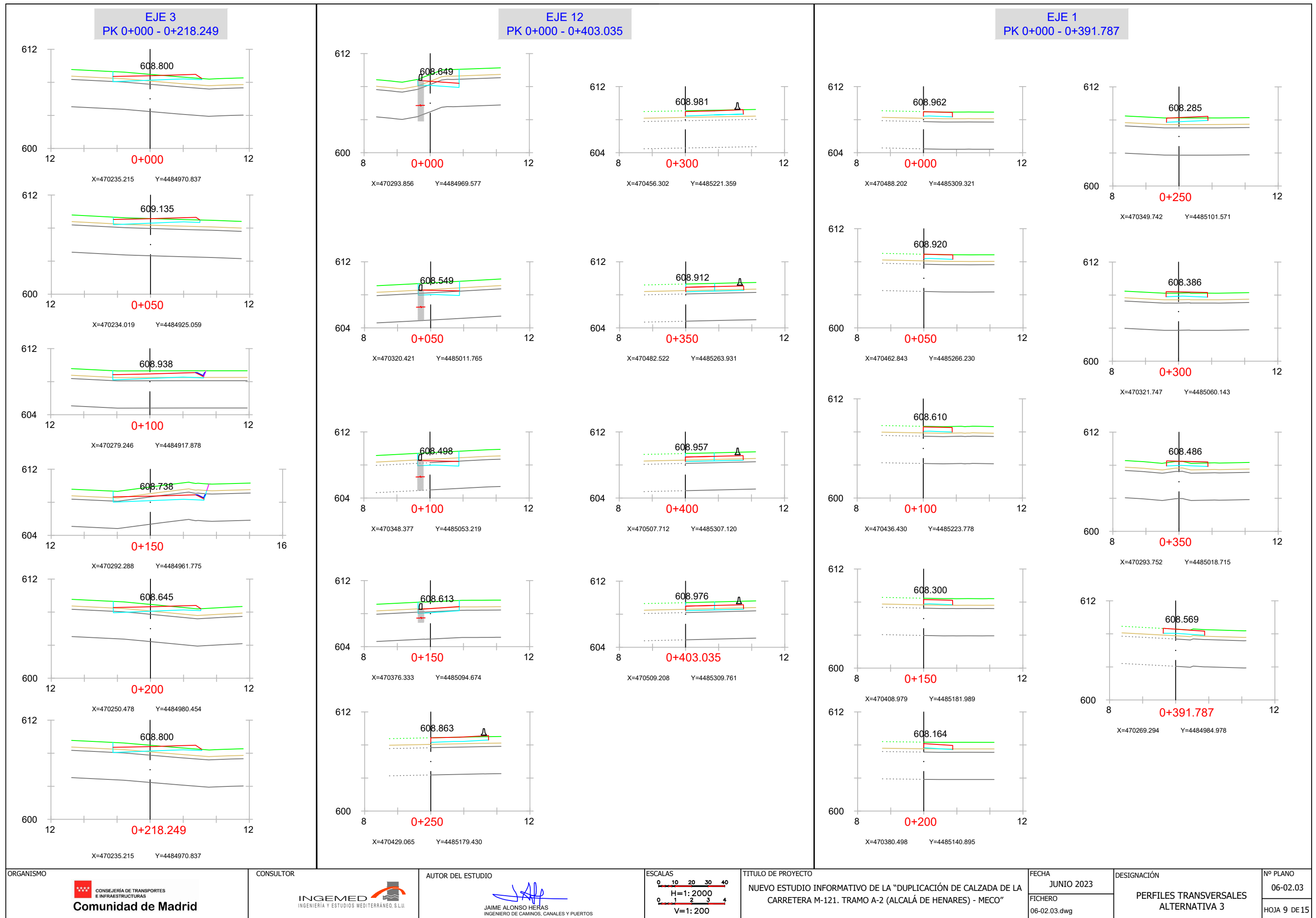
EJE 10  
PK 3+300 - 3+650



EJE 10  
PK 3+700 - 4+132,586

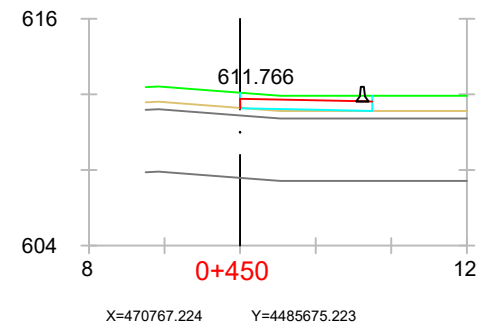
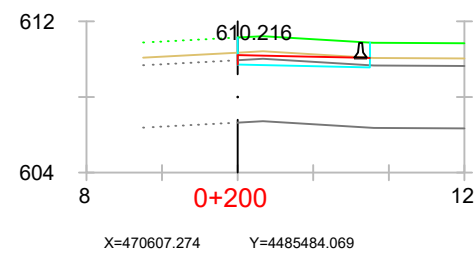
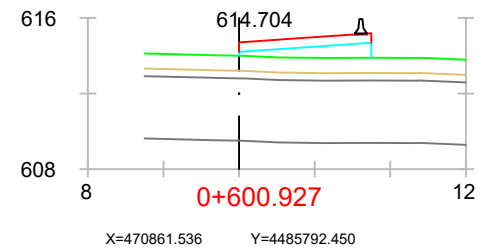
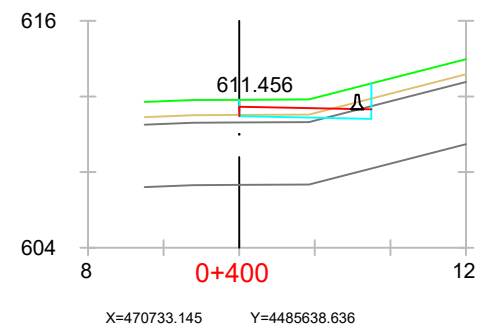
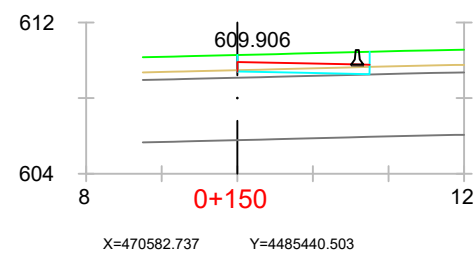
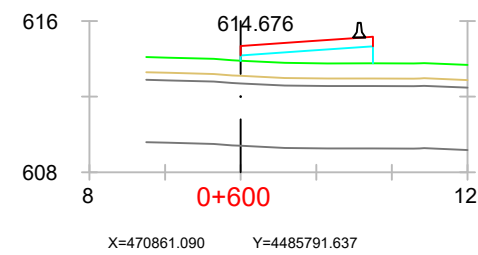
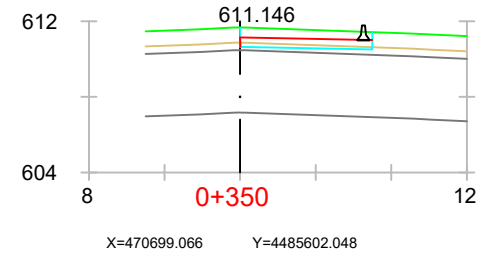
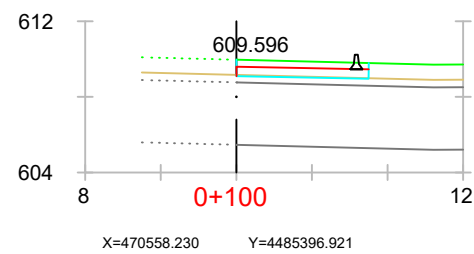
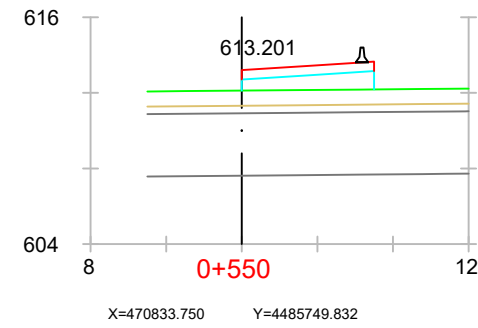
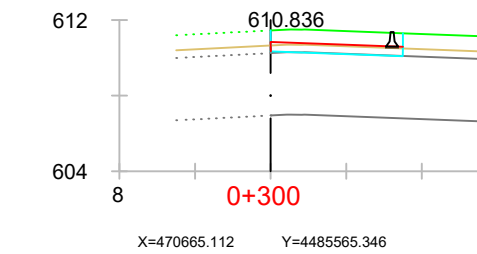
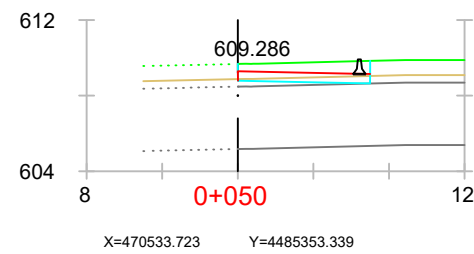
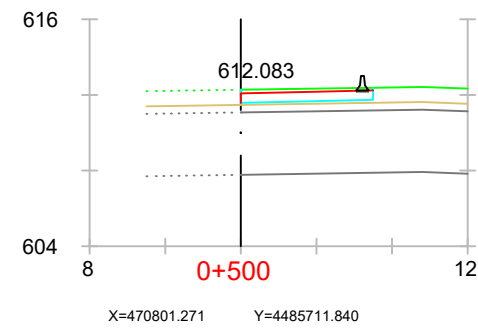
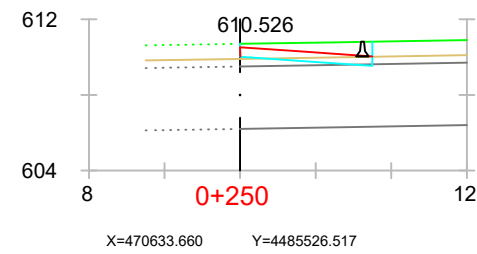
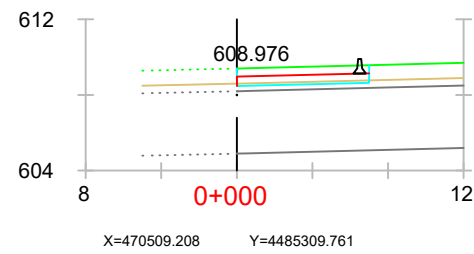




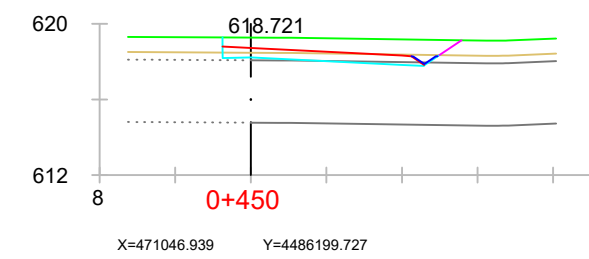
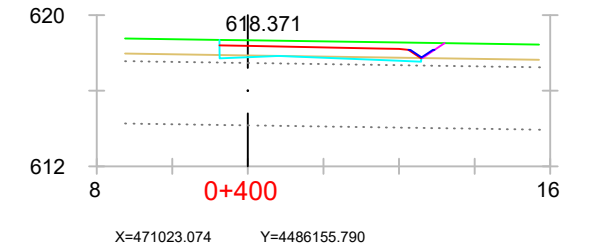
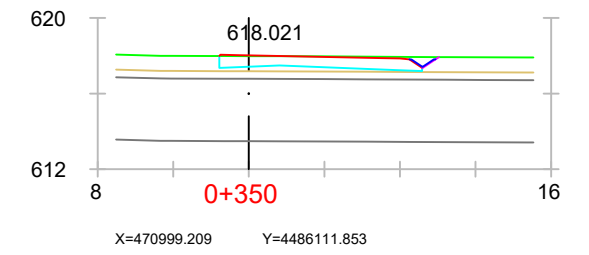
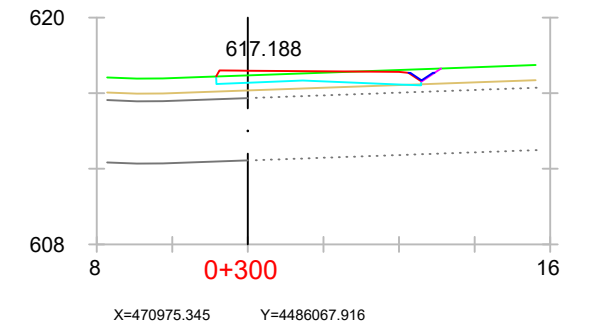
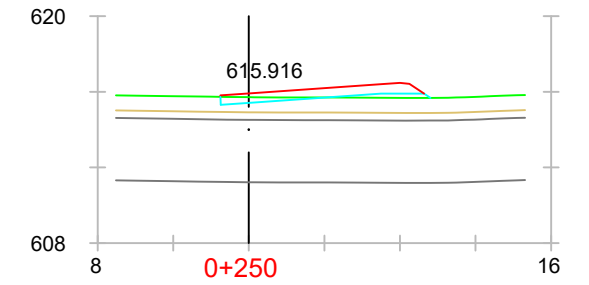
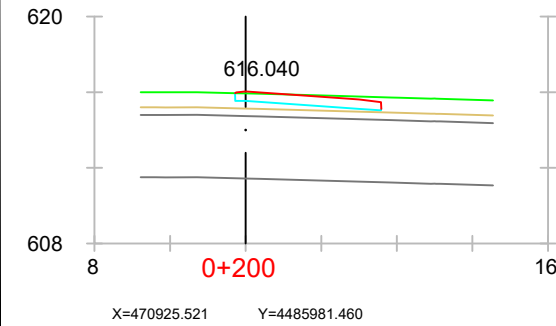
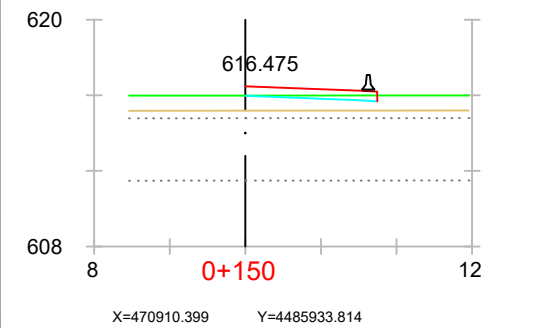
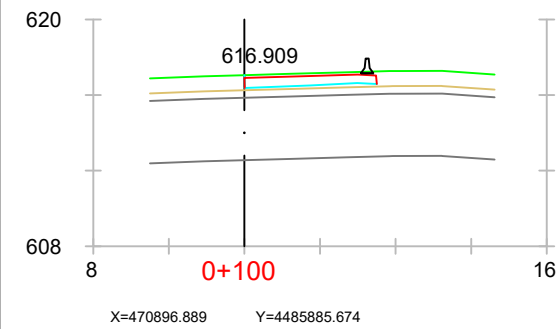
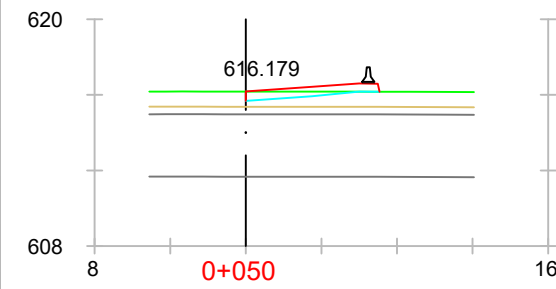
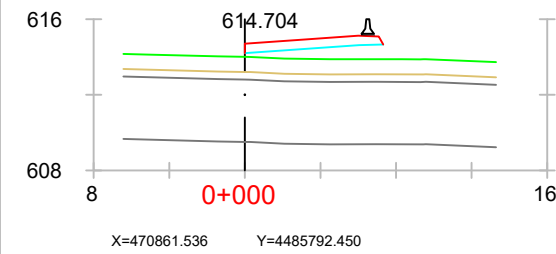


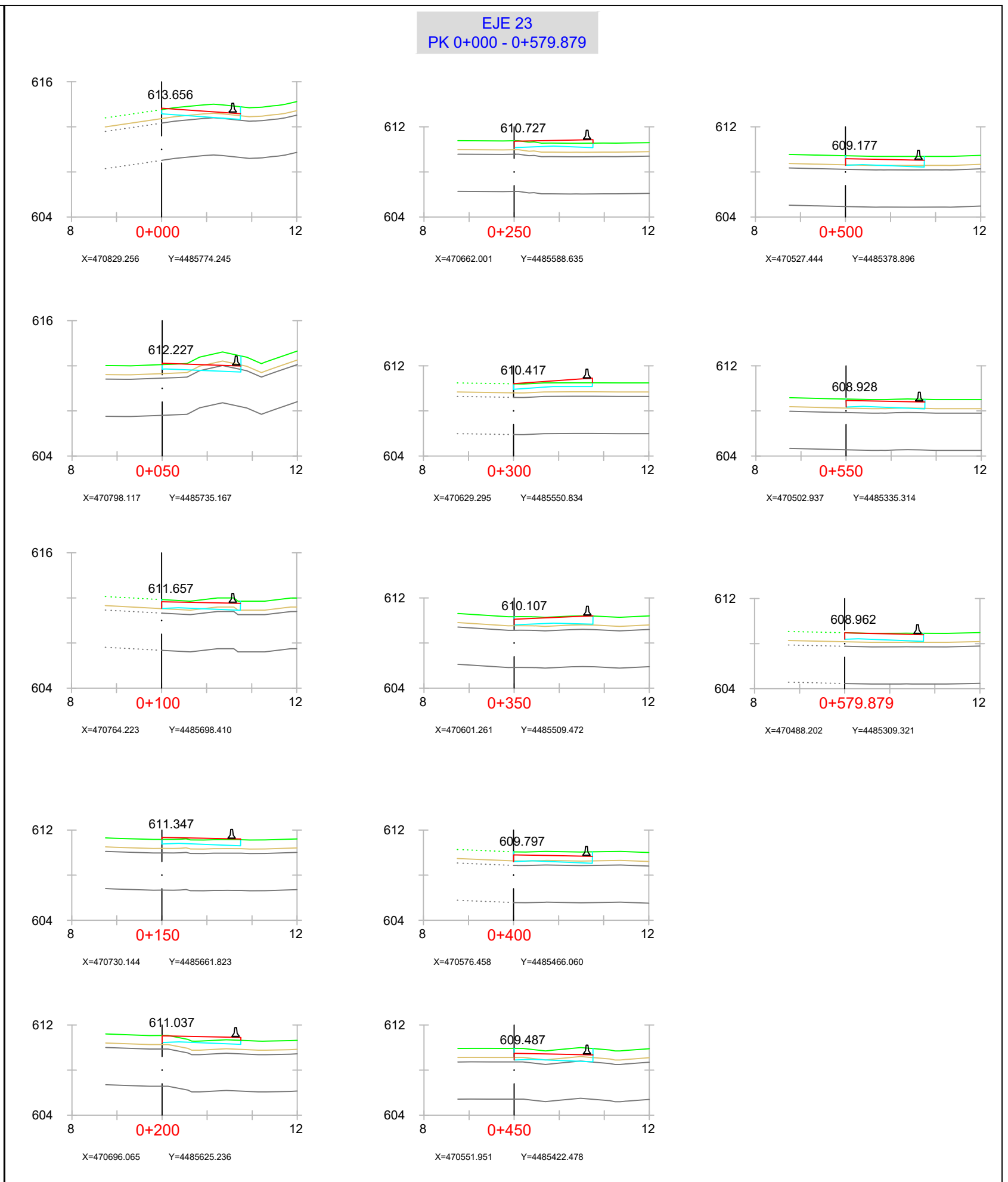
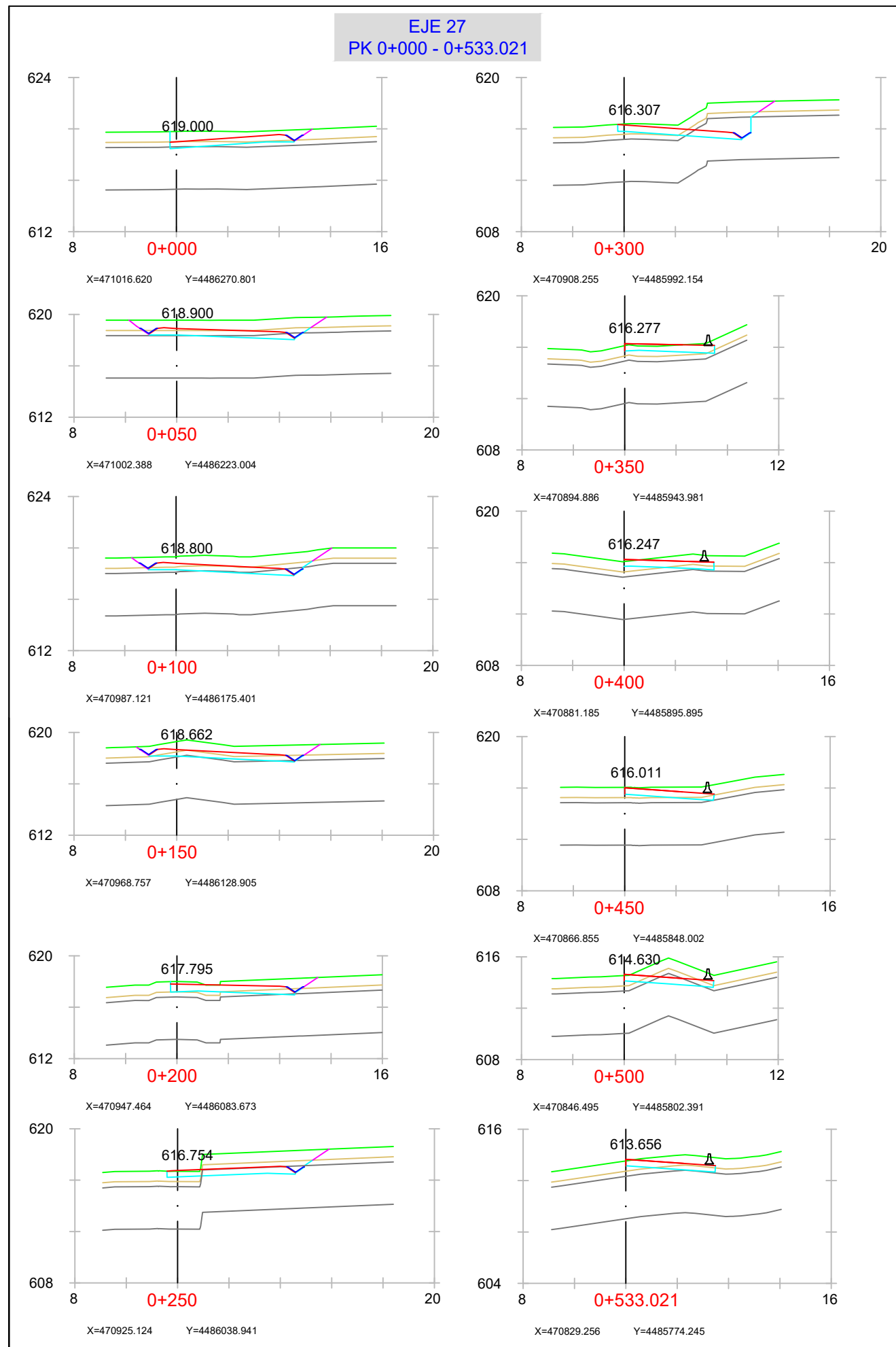


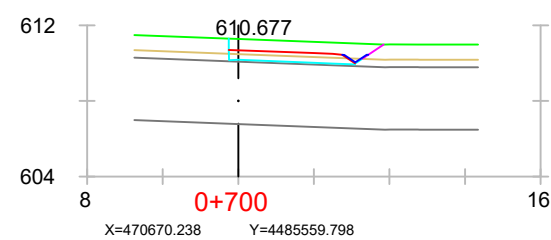
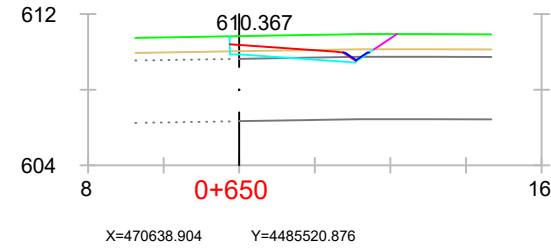
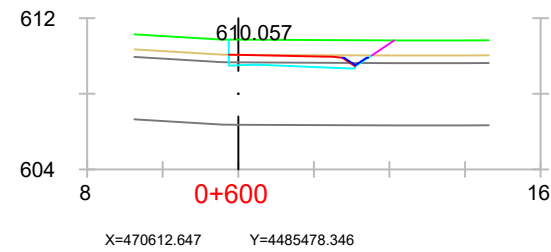
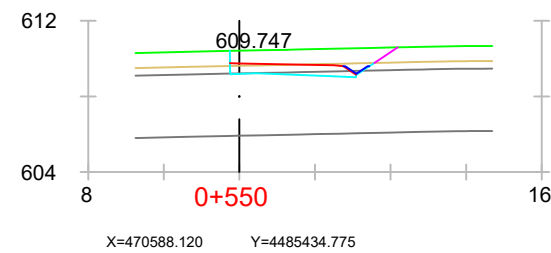
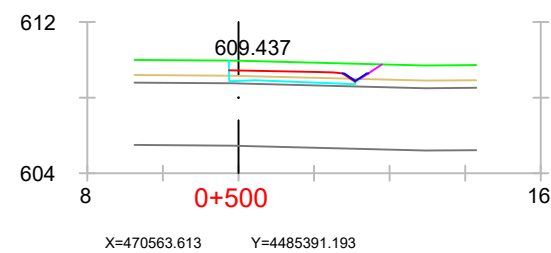
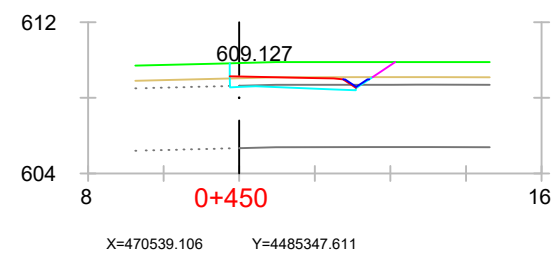
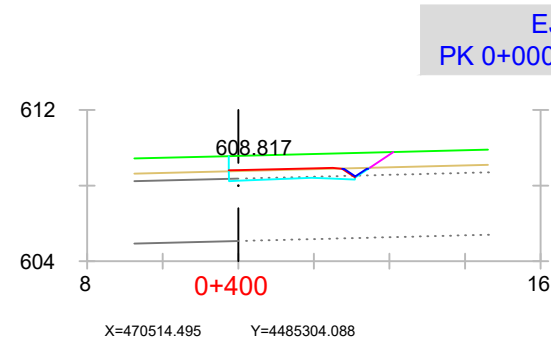
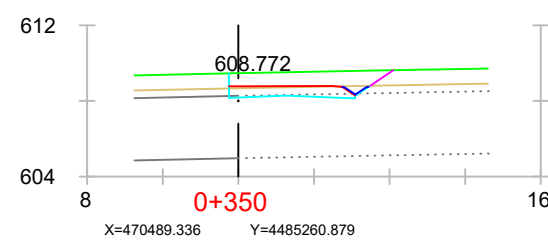
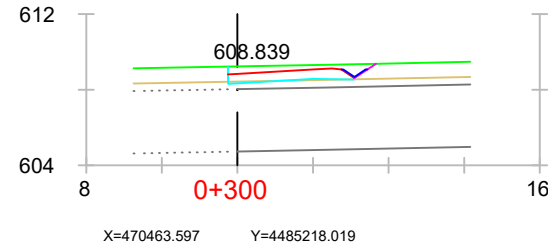
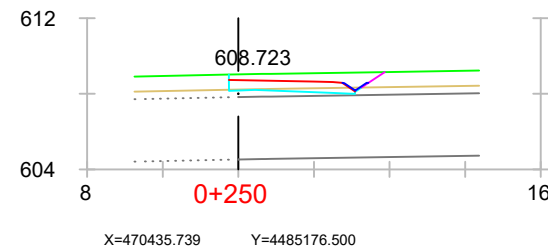
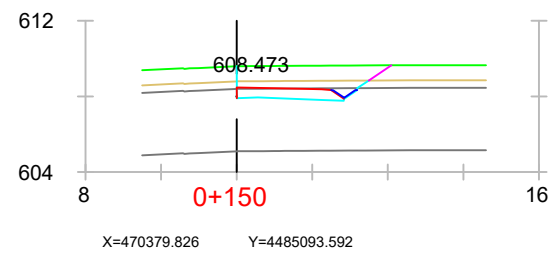
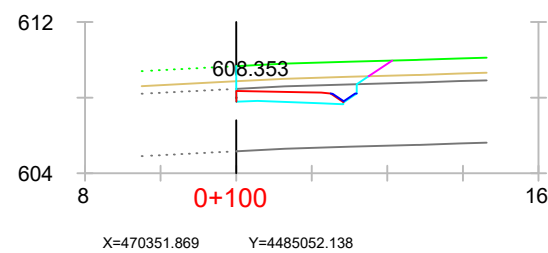
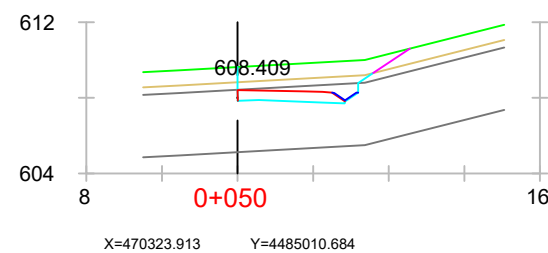
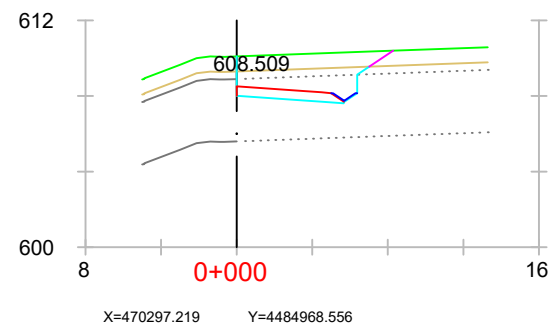
EJE 31  
PK 0+000 - 0+600.927



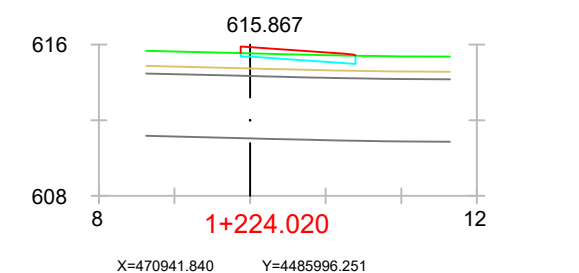
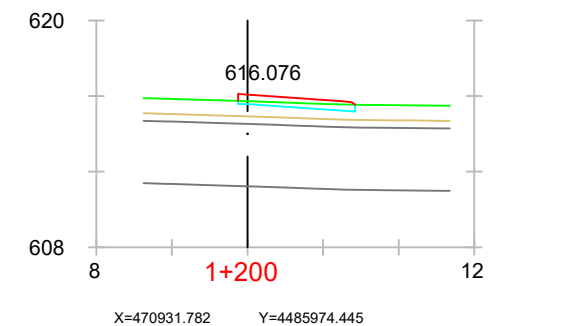
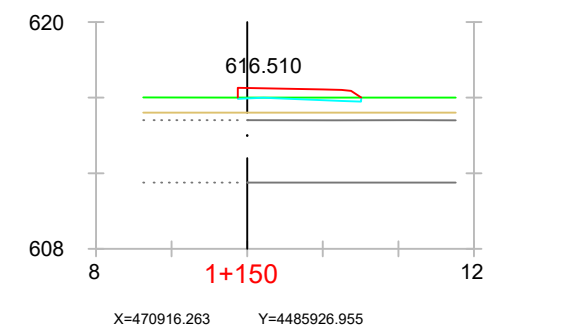
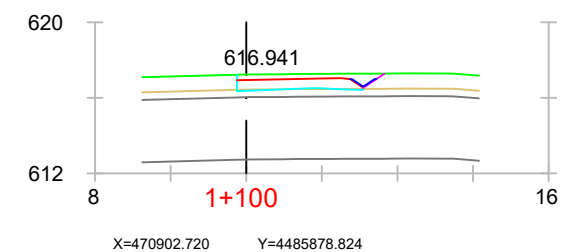
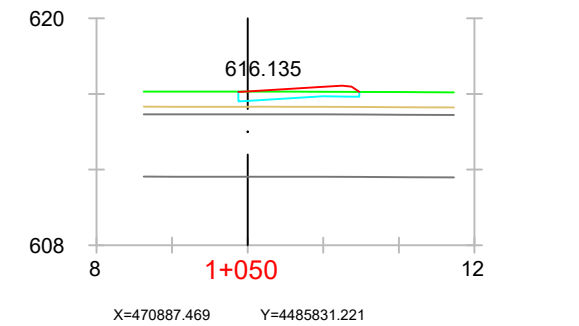
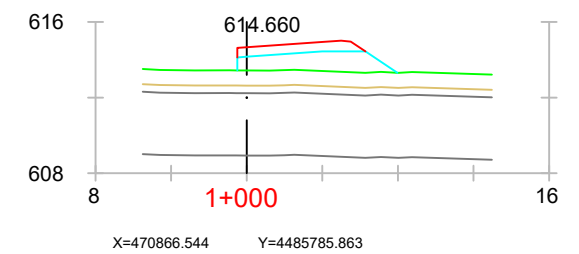
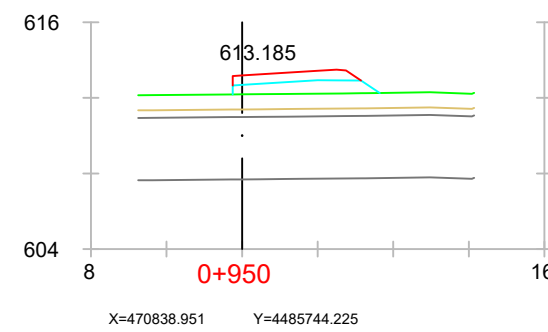
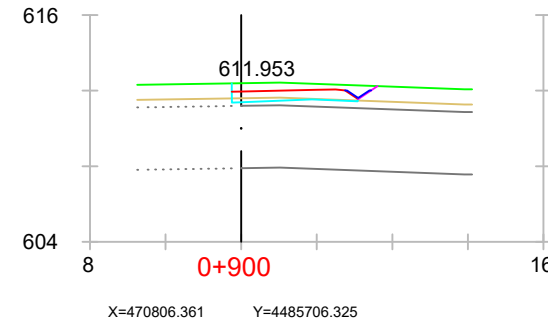
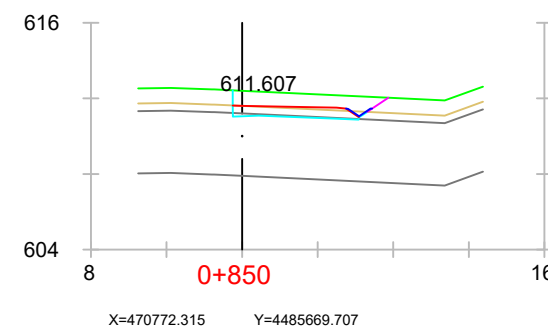
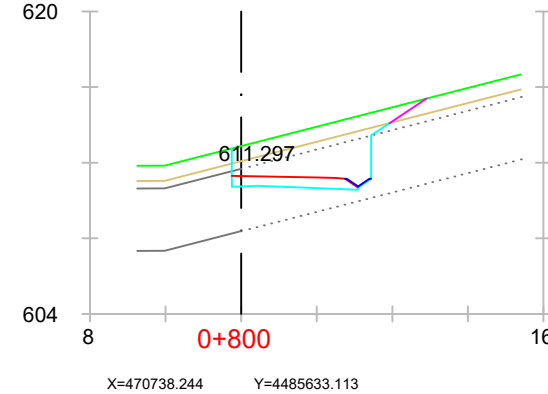
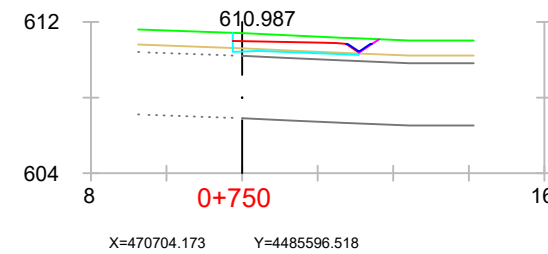
EJE 24  
PK 0+000 - 0+450



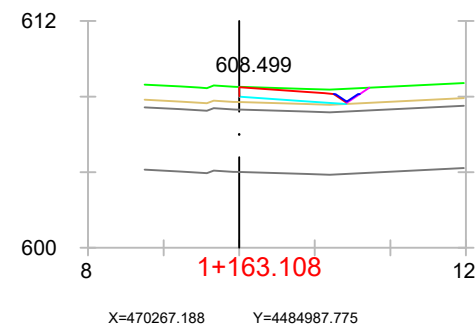
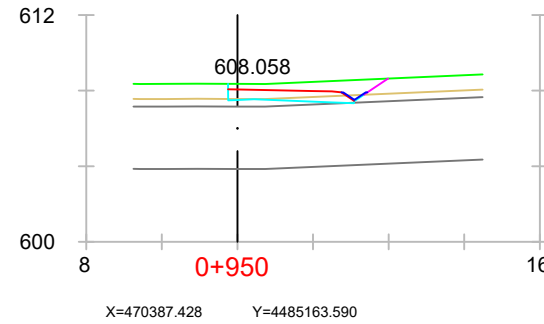
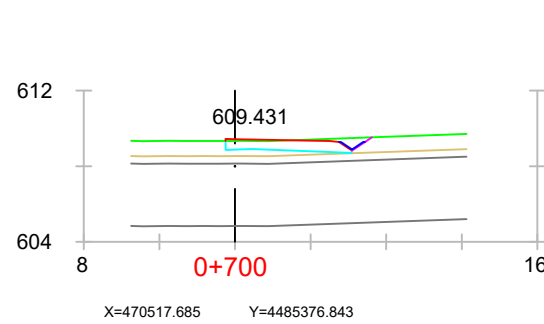
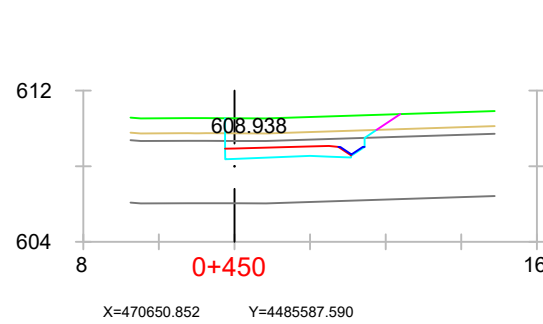
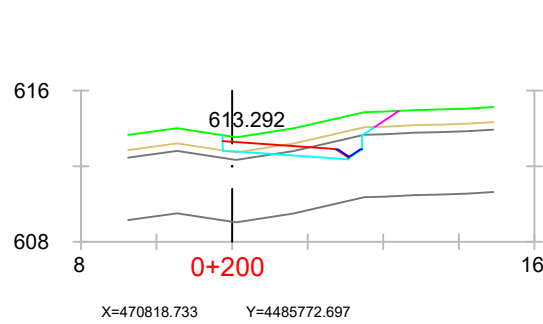
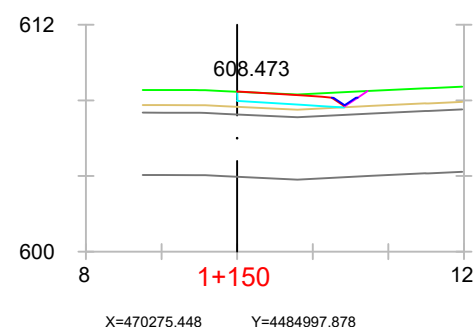
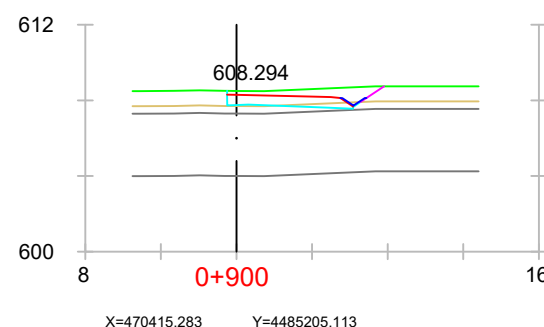
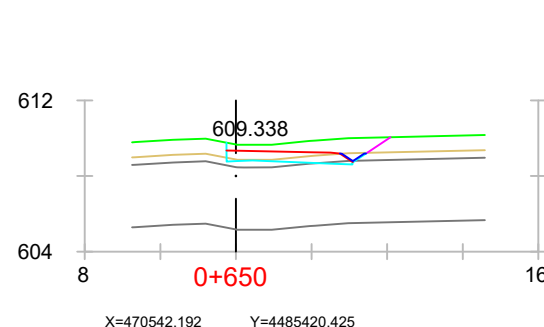
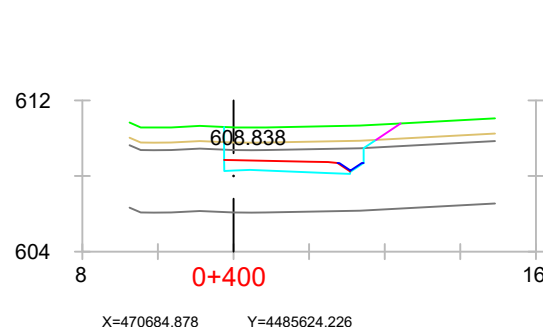
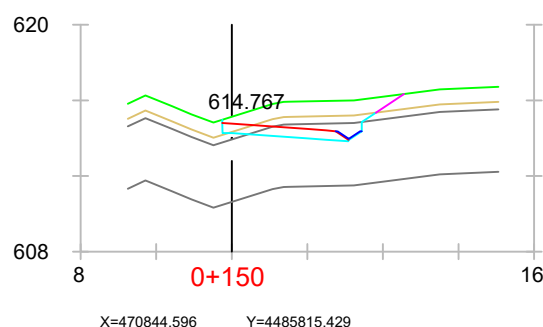
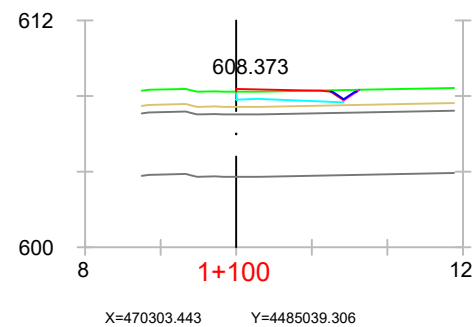
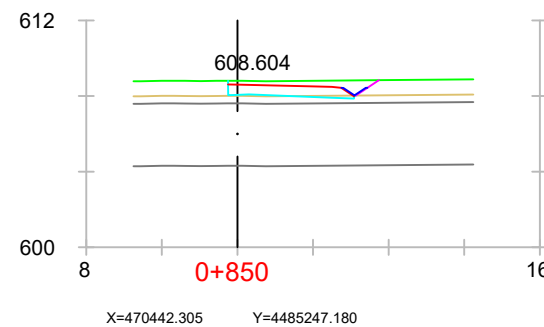
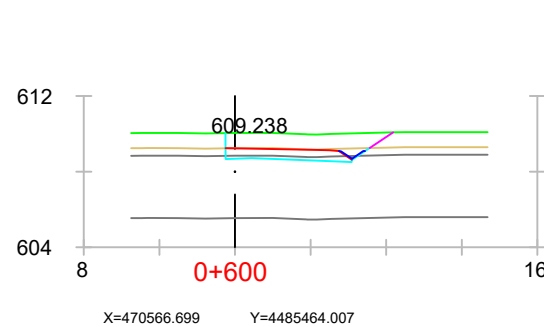
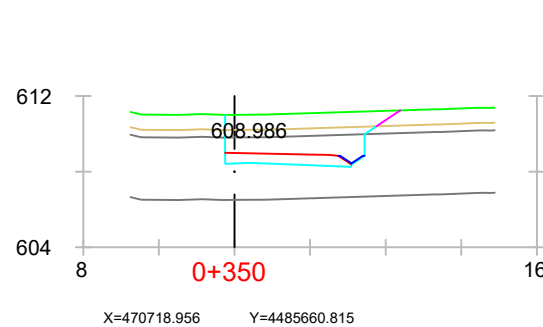
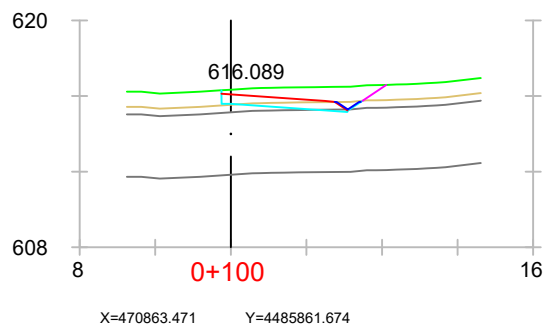
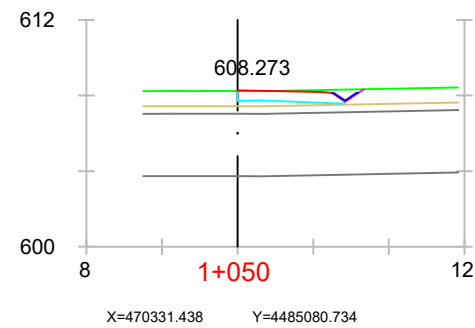
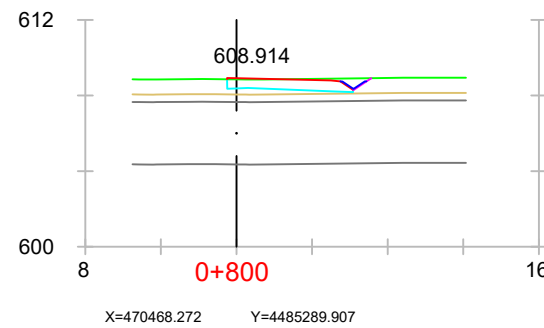
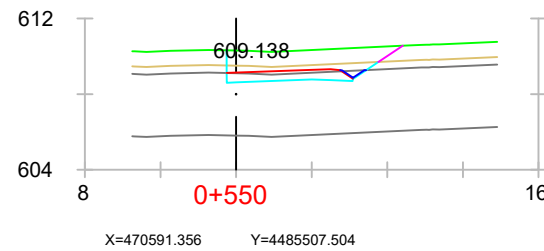
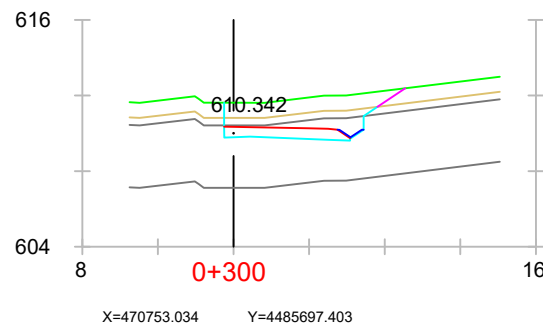
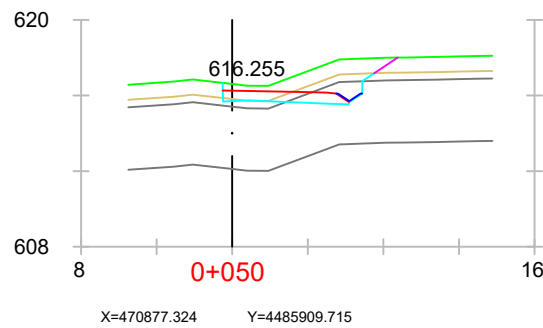
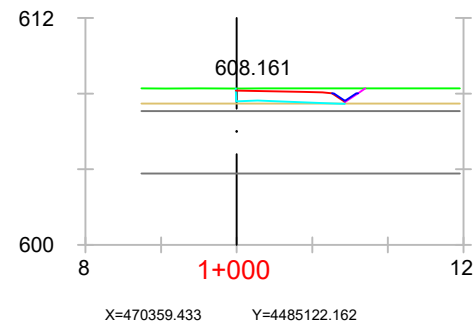
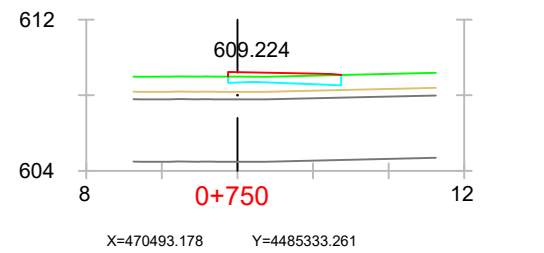
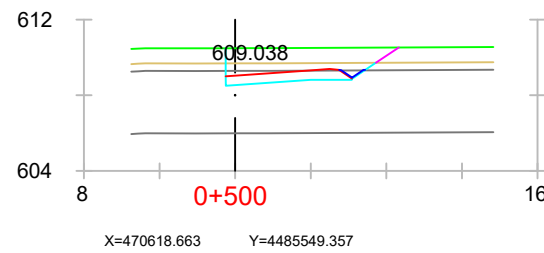
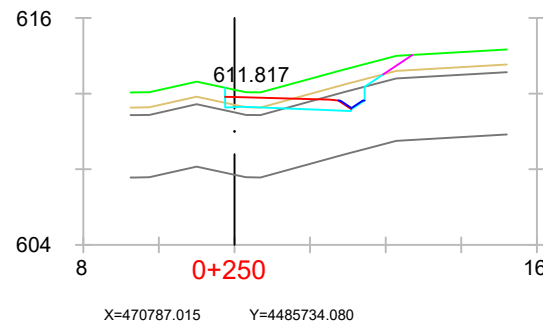
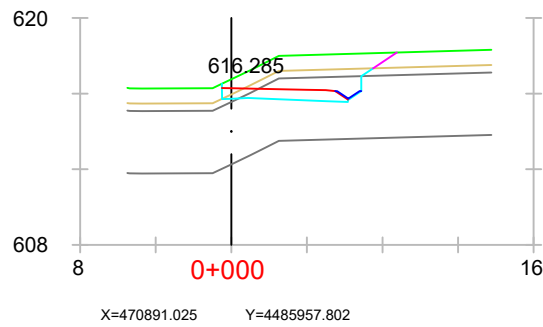




EJE 21  
PK 0+000 - 1+224.020

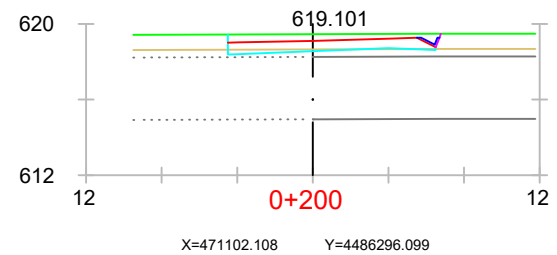
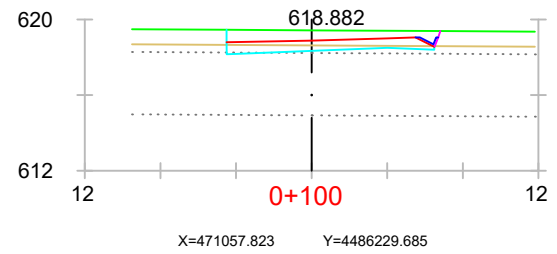
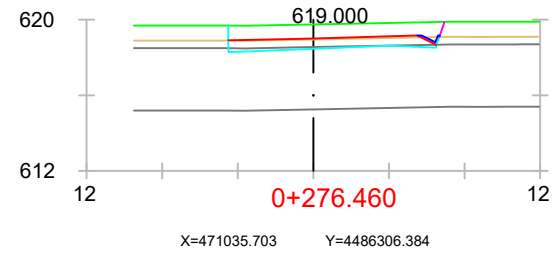
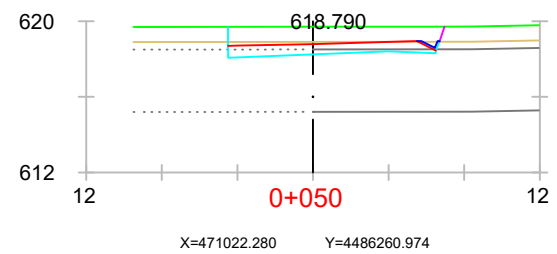
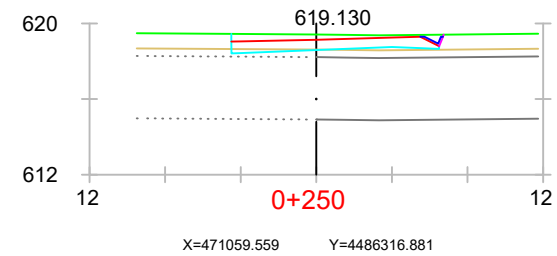
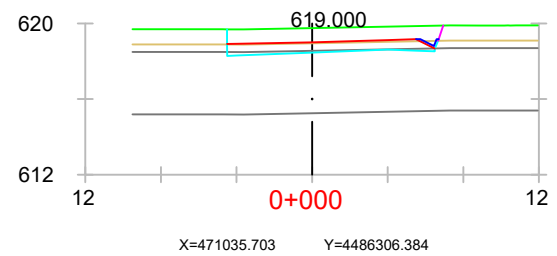


EJE 32  
PK 0+000 - 1+163.108

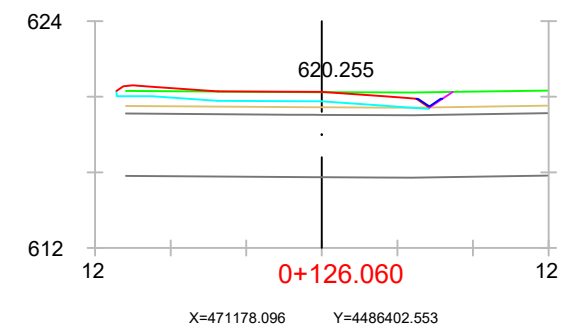
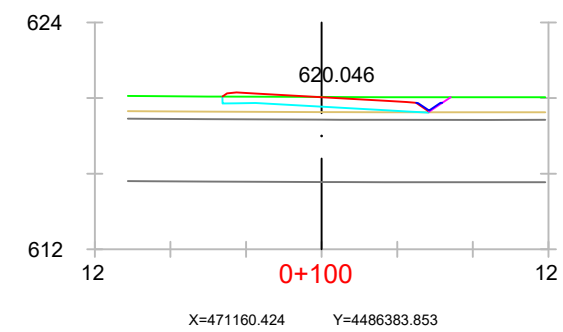
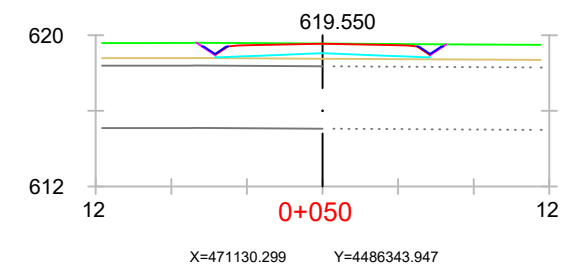
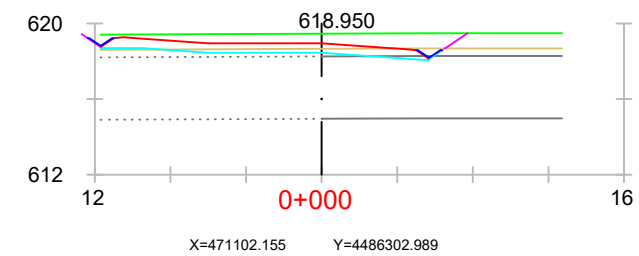




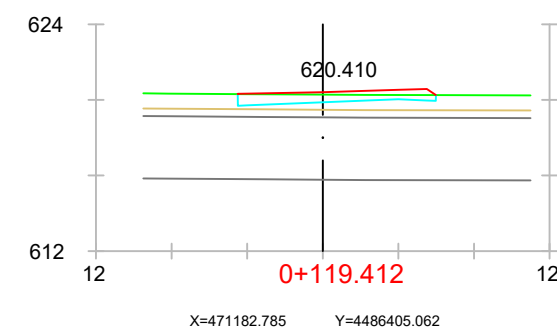
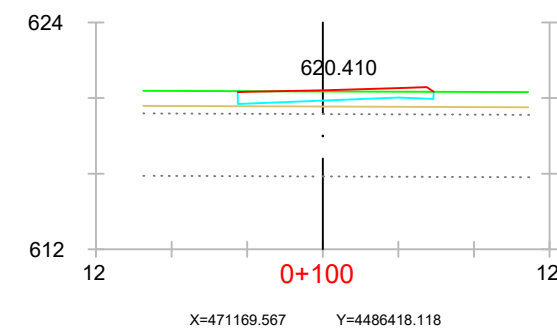
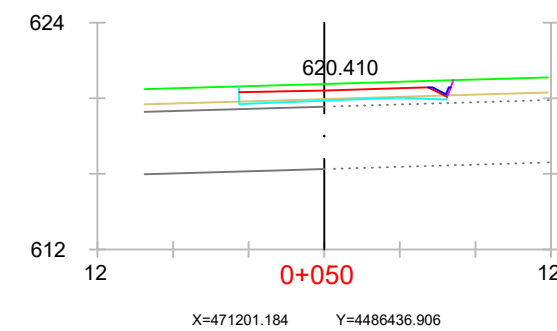
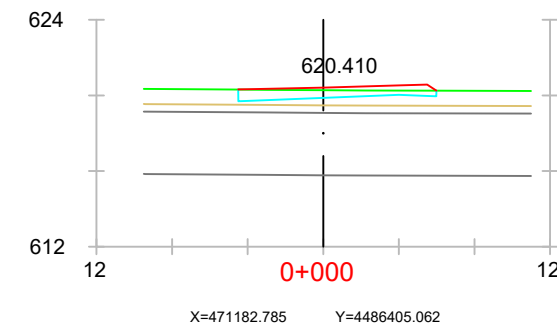
EJE 28  
PK 0+000 - 0+276.460

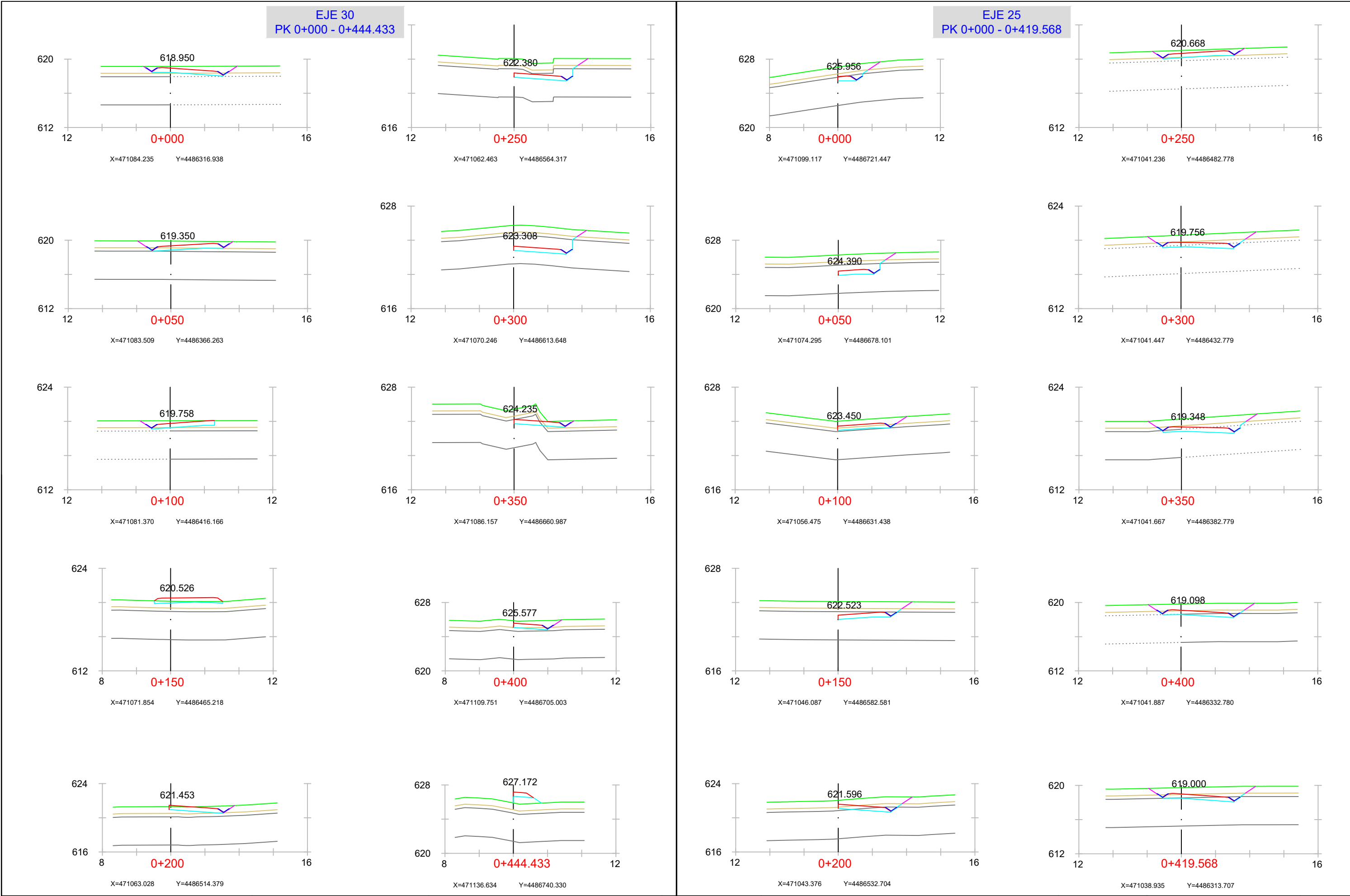


EJE 26  
PK 0+000 - 0+126.060

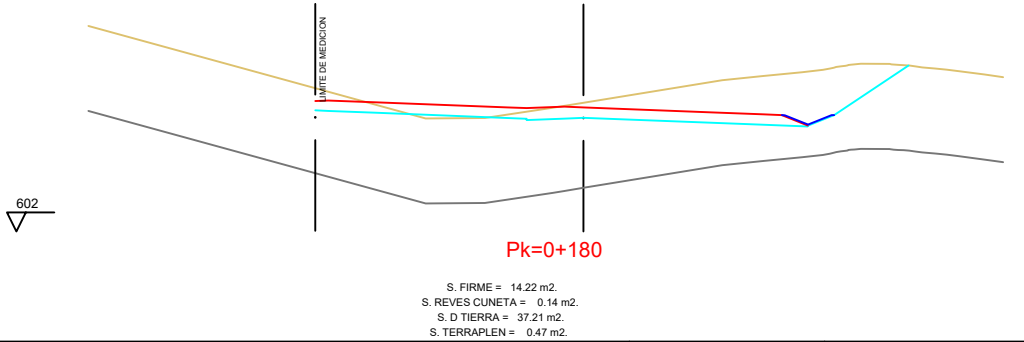
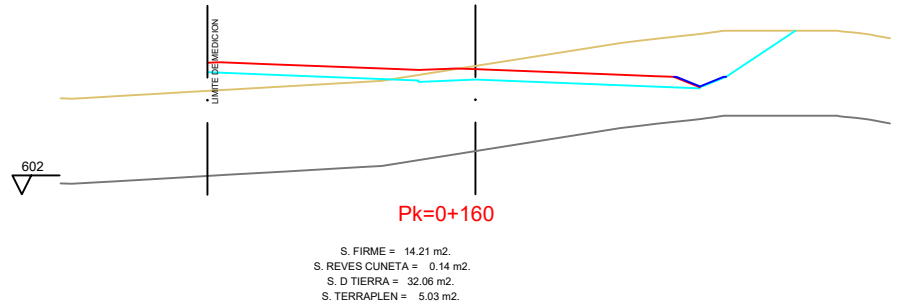
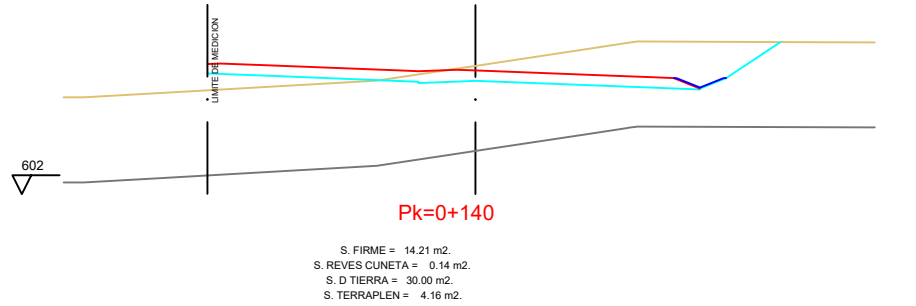
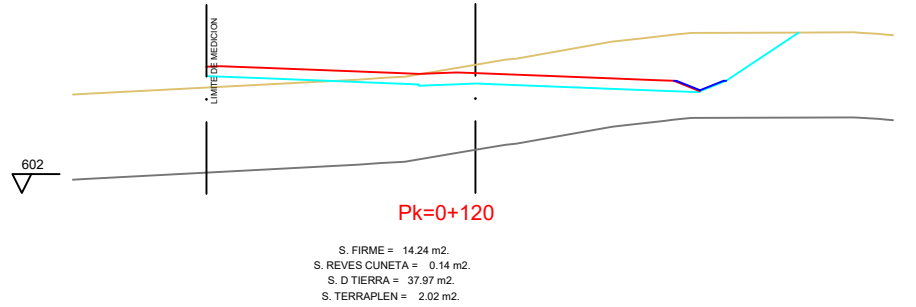
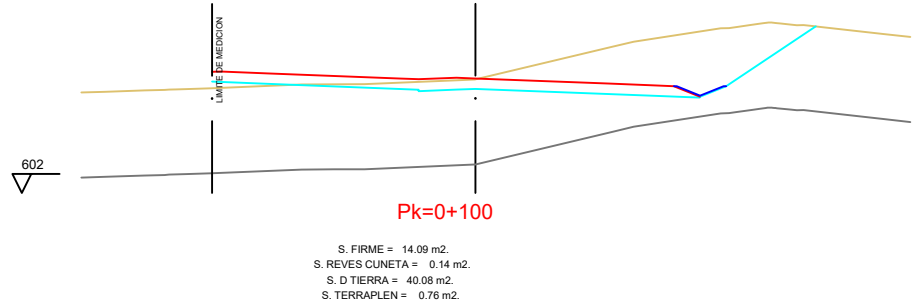
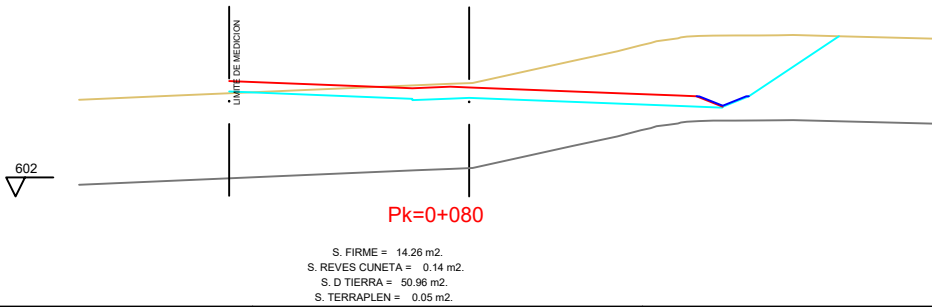
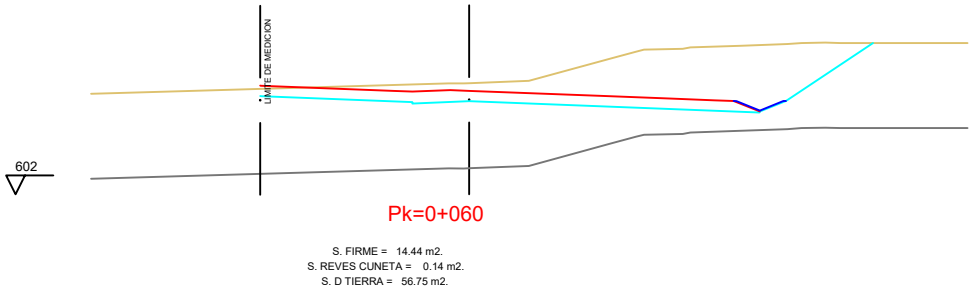
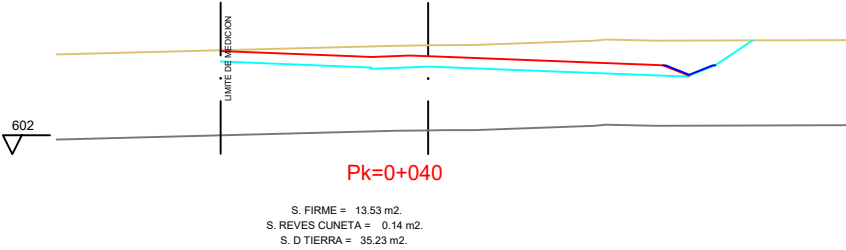
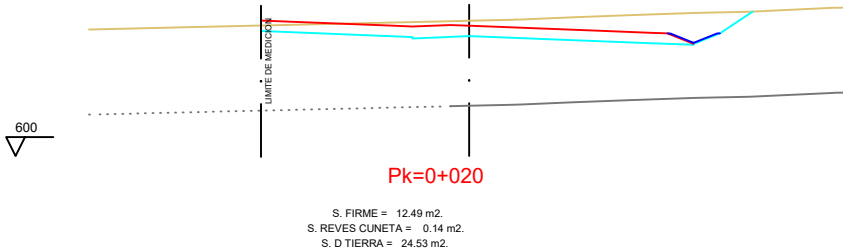
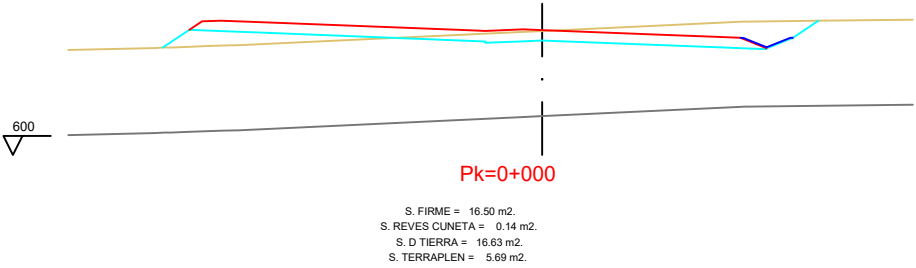


EJE 29  
PK 0+000 - 0+119.412

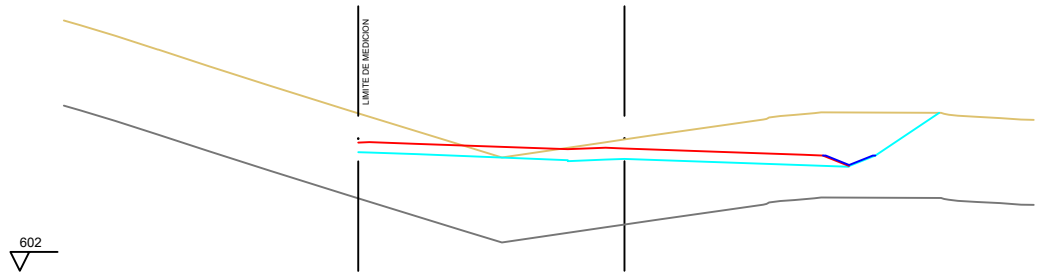




EJE 1  
PK 0+000 - 0+180

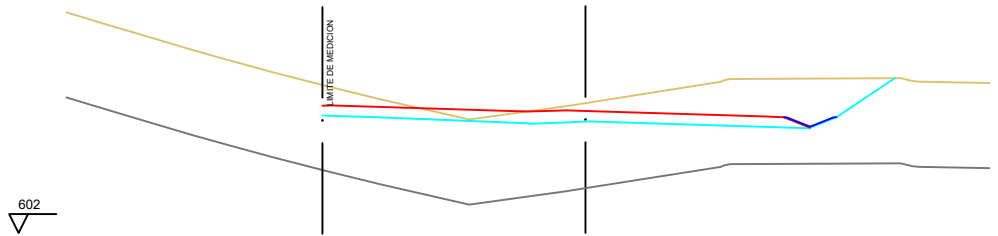


EJE 1  
PK 0+200 - 0+380



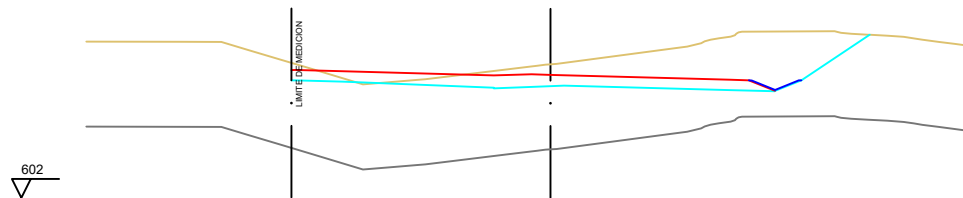
Pk=0+200

S. FIRME = 14.27 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 43.54 m2.



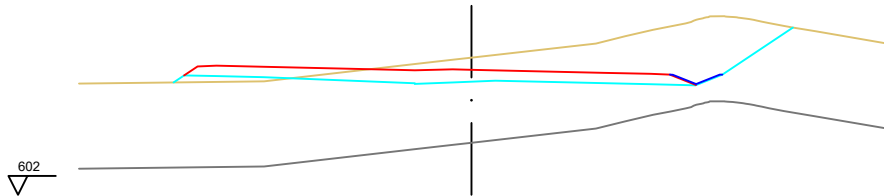
Pk=0+220

S. FIRME = 14.34 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 39.99 m2.



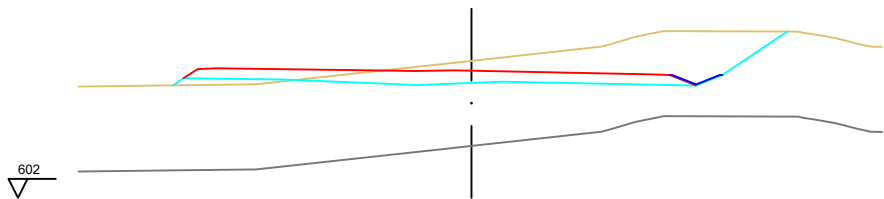
Pk=0+240

S. FIRME = 14.47 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 41.24 m2.  
S. TERRAPLEN = 0.06 m2.



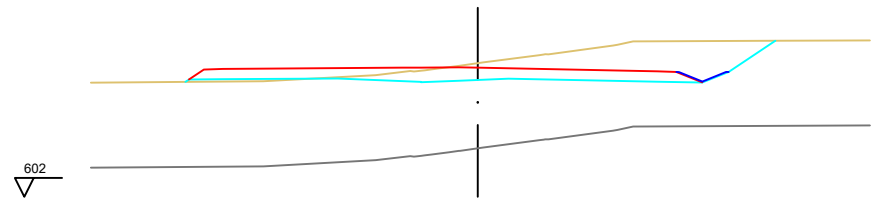
Pk=0+260

S. FIRME = 15.29 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 42.83 m2.  
S. TERRAPLEN = 1.51 m2.



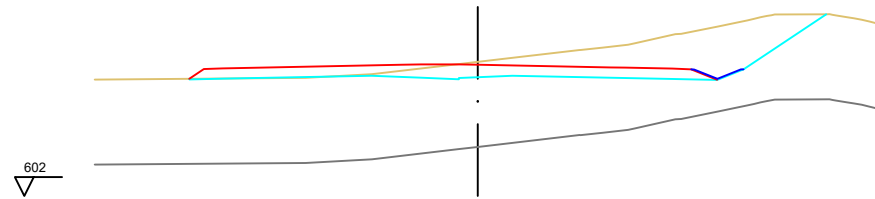
Pk=0+280

S. FIRME = 15.49 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 37.21 m2.  
S. TERRAPLEN = 1.63 m2.



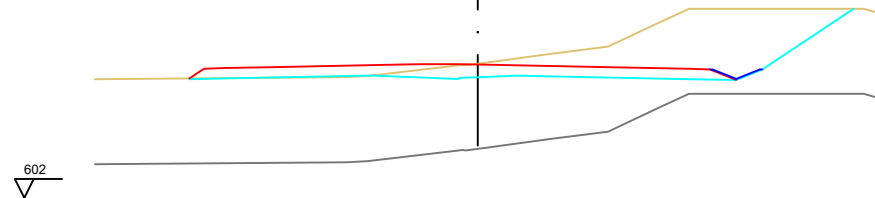
Pk=0+300

S. FIRME = 15.33 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 27.85 m2.  
S. TERRAPLEN = 0.66 m2.



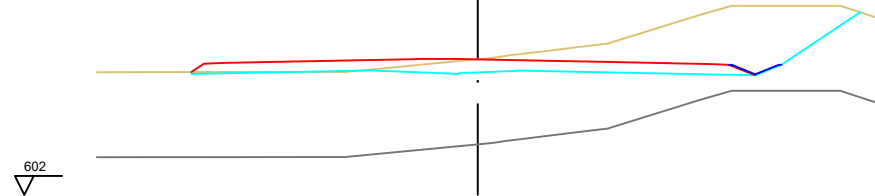
Pk=0+320

S. FIRME = 15.59 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 33.57 m2.  
S. TERRAPLEN = 0.10 m2.



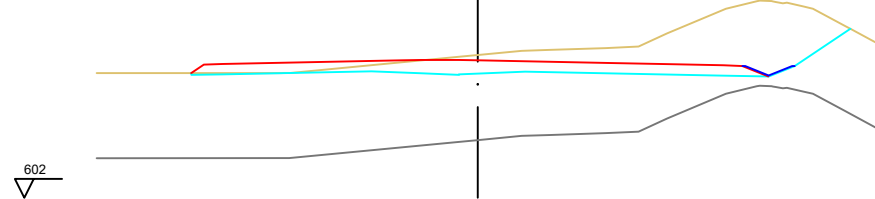
Pk=0+340

S. FIRME = 16.19 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 43.70 m2.  
S. TERRAPLEN = 0.21 m2.



Pk=0+360

S. FIRME = 16.78 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 43.35 m2.  
S. TERRAPLEN = 0.10 m2.



Pk=0+380

S. FIRME = 17.20 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 45.44 m2.

ORGANISMO



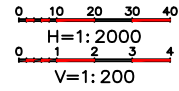
CONSULTOR



AUTOR DEL ESTUDIO

JAIME ALONSO HERAS  
INGENIERO DE CAMINOS, CANALES Y PUERTOS

ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
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FECHA

JUNIO 2023

FICHERO

06-02.04.dwg

DESIGNACIÓN

PERFILES TRANSVERSALES  
ALTERNATIVA 4

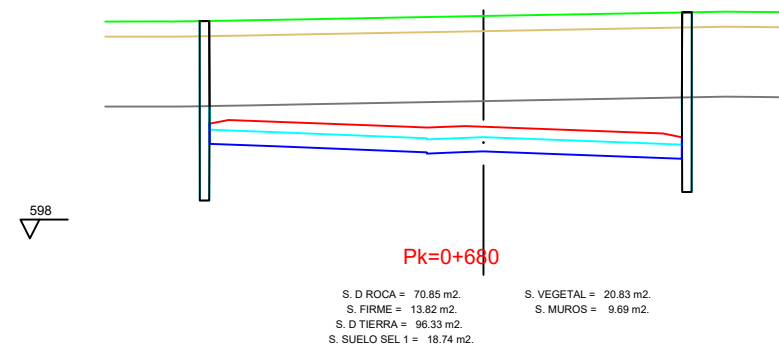
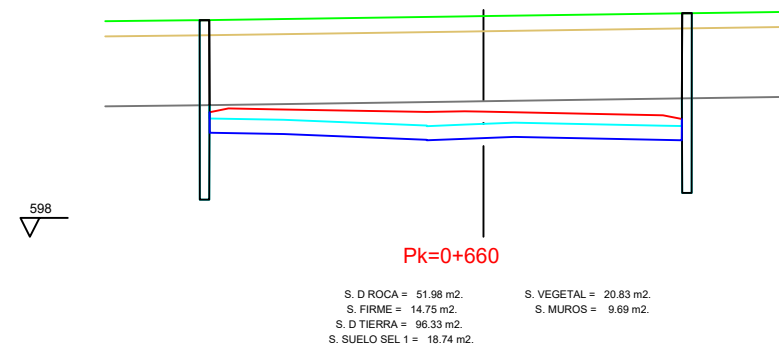
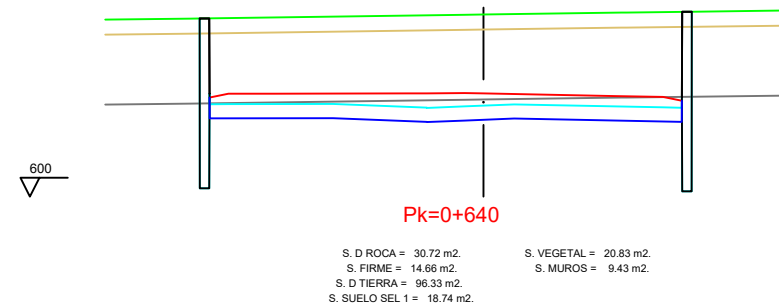
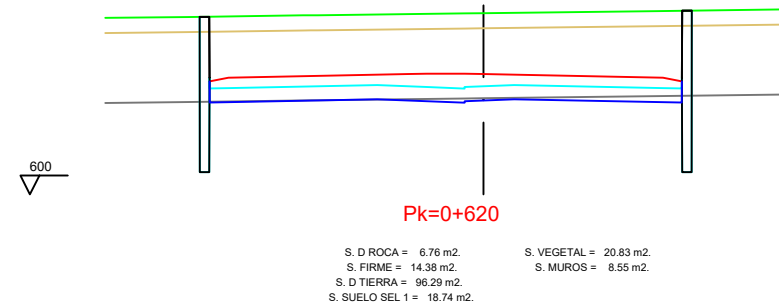
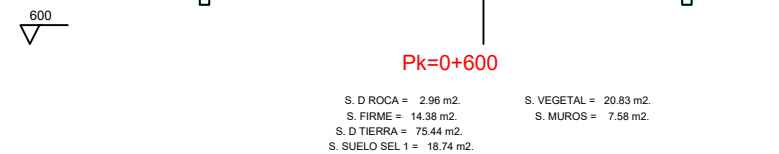
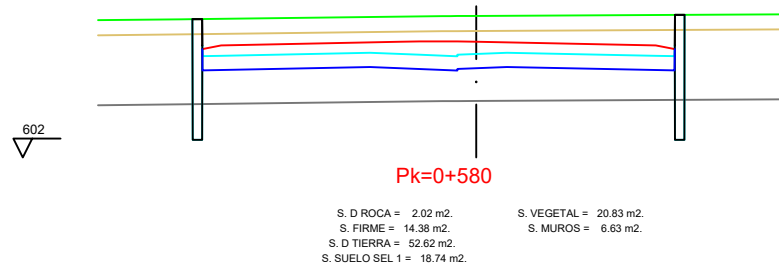
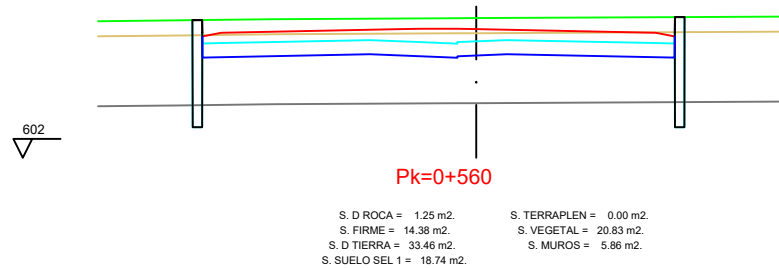
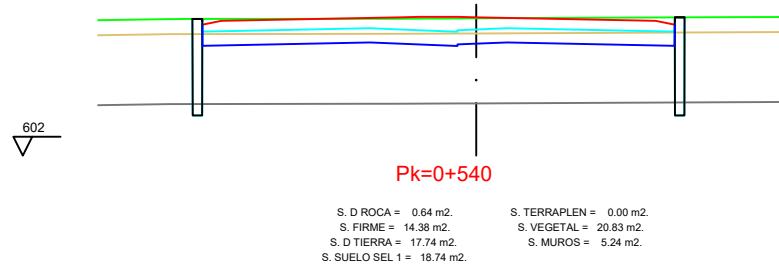
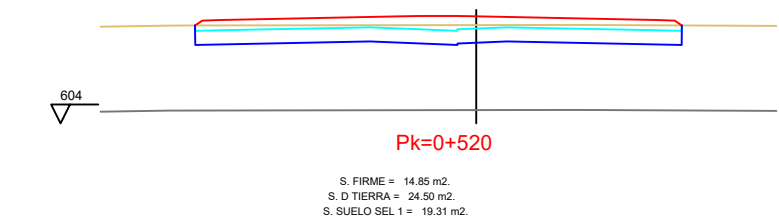
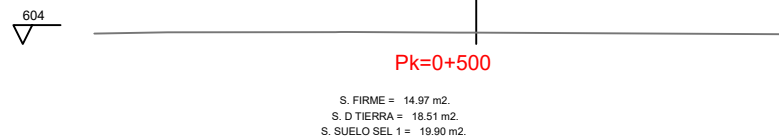
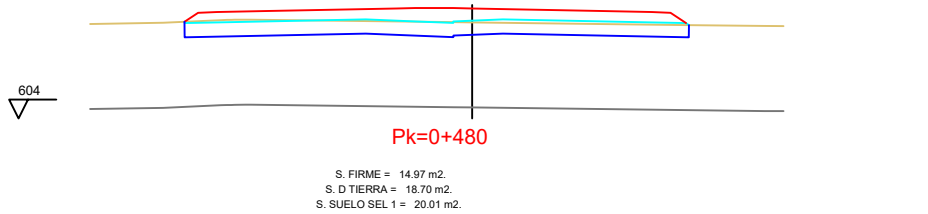
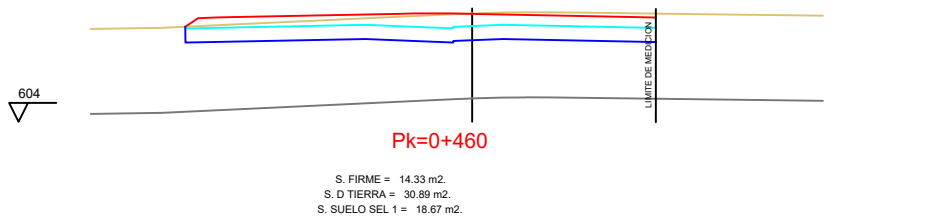
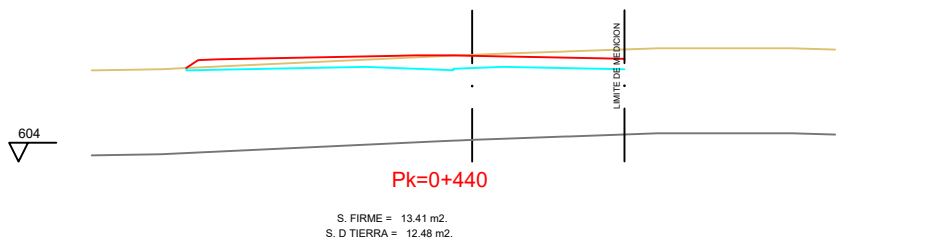
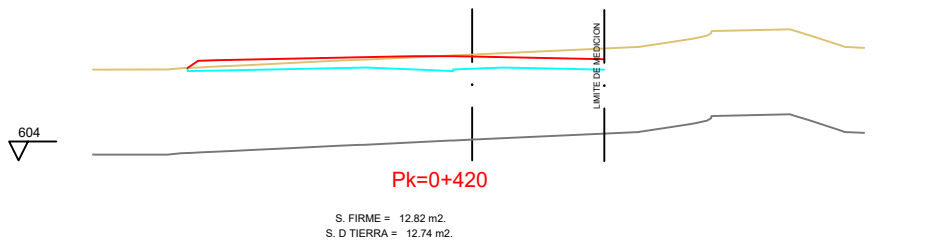
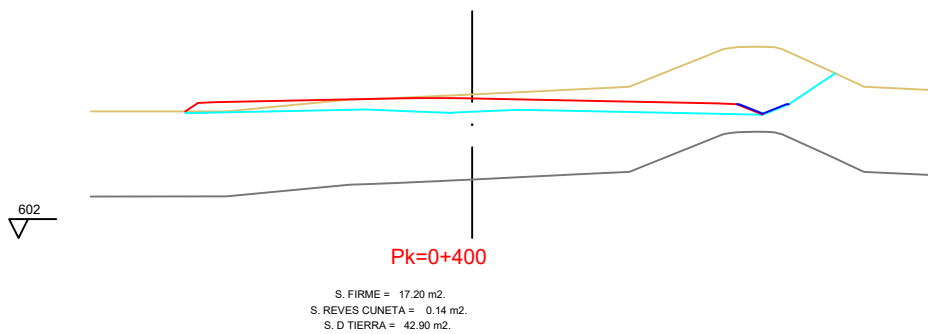
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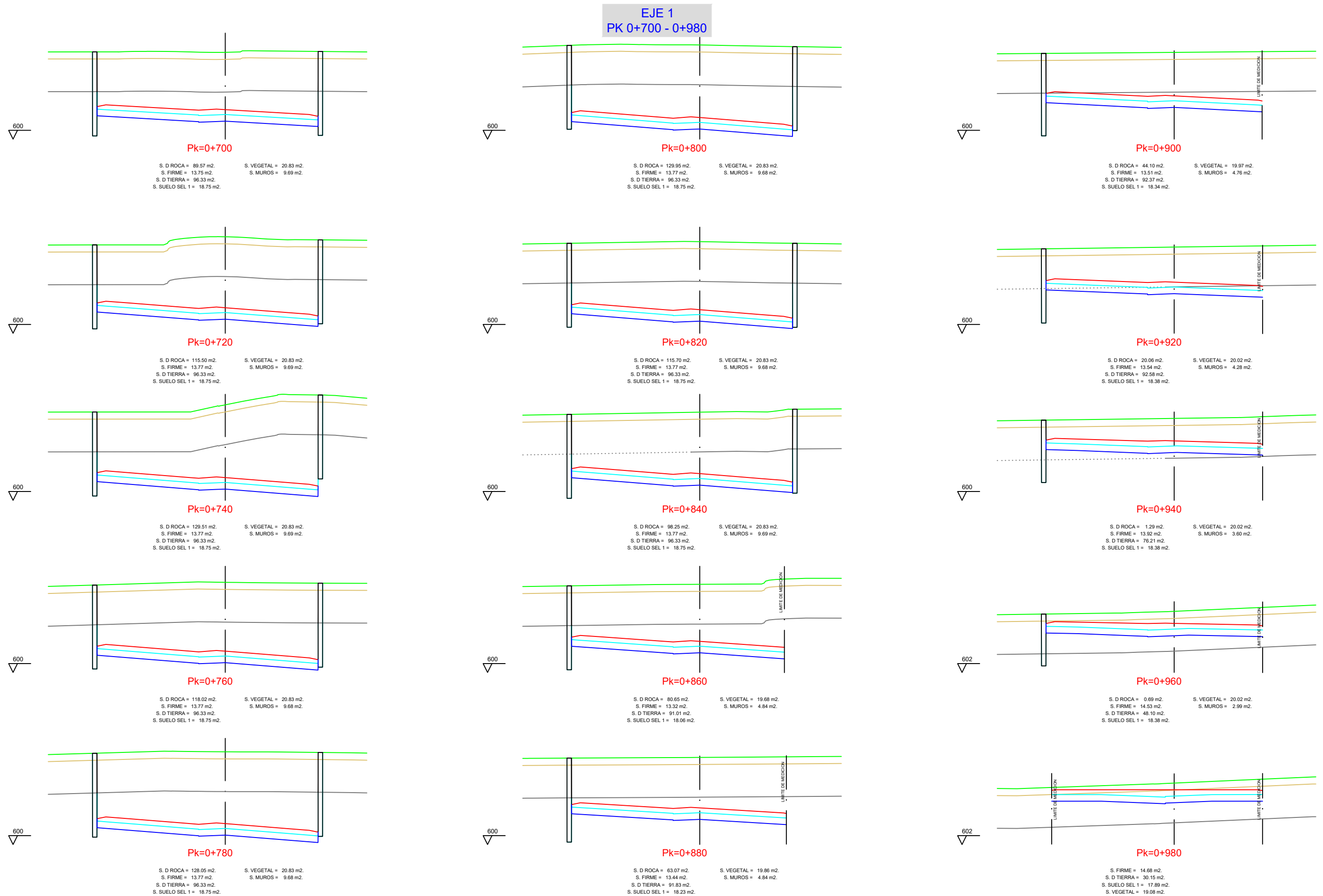
06-02.04

HOJA 2 DE 50

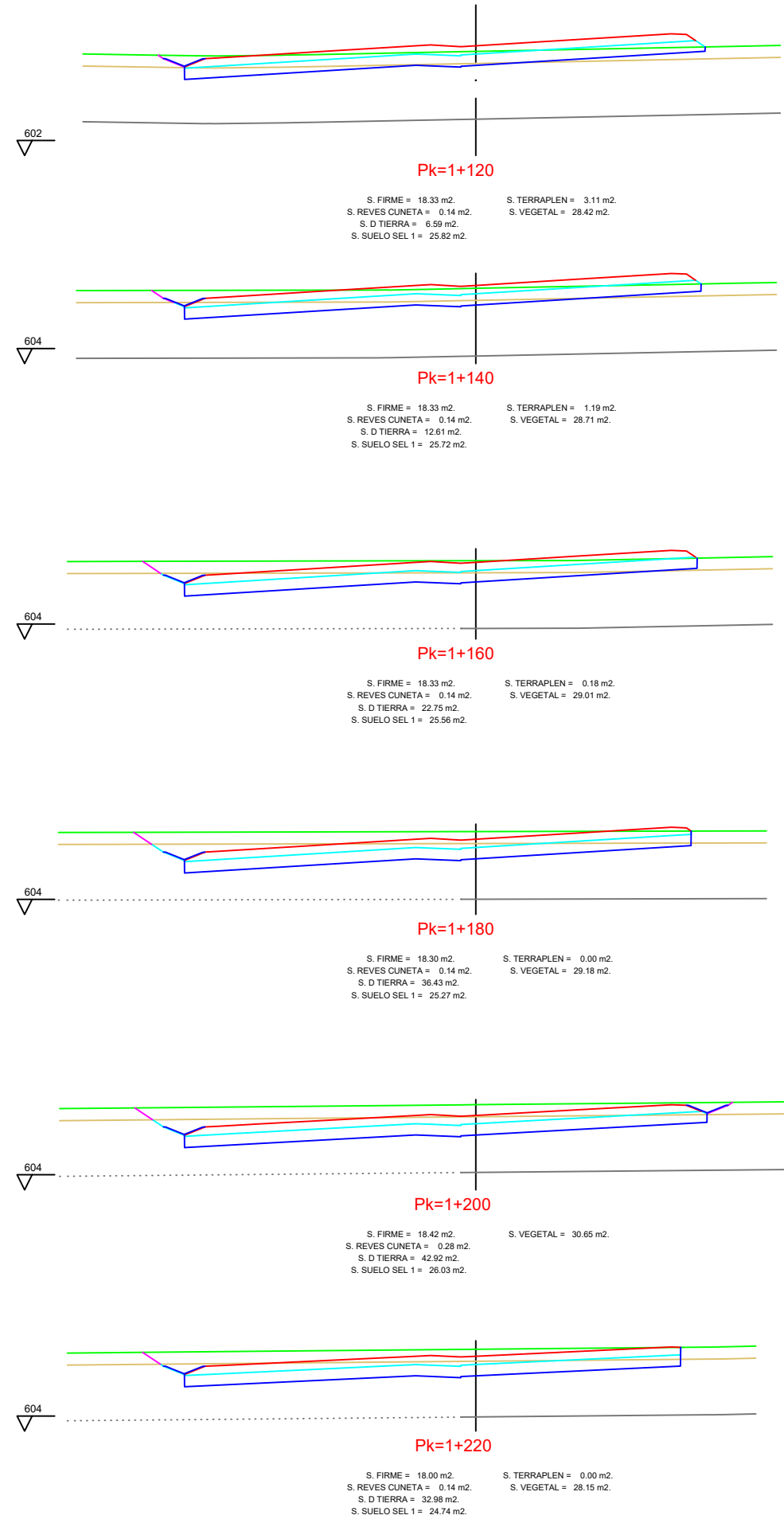
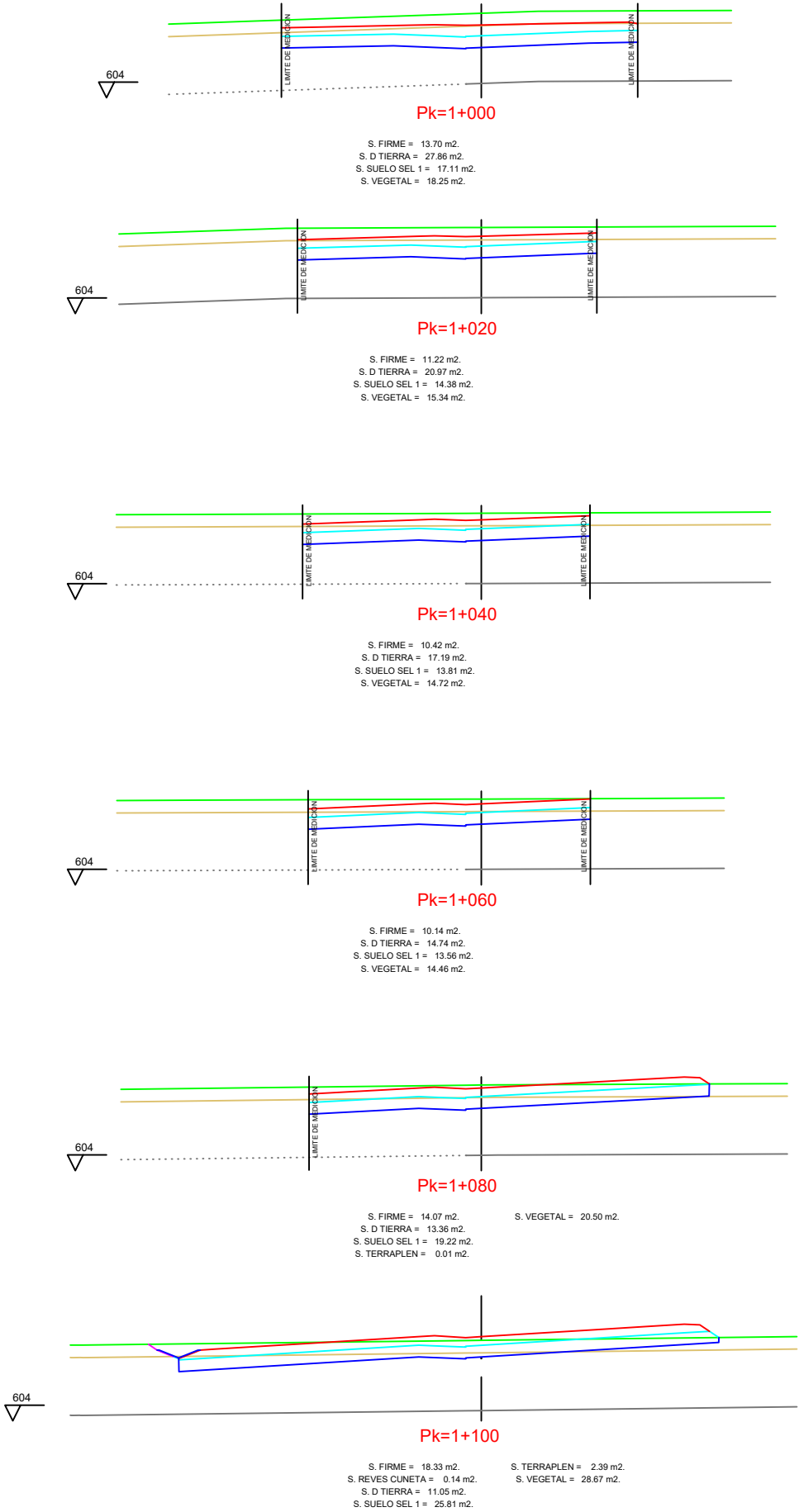


EJE 1  
PK 0+400 - 0+680

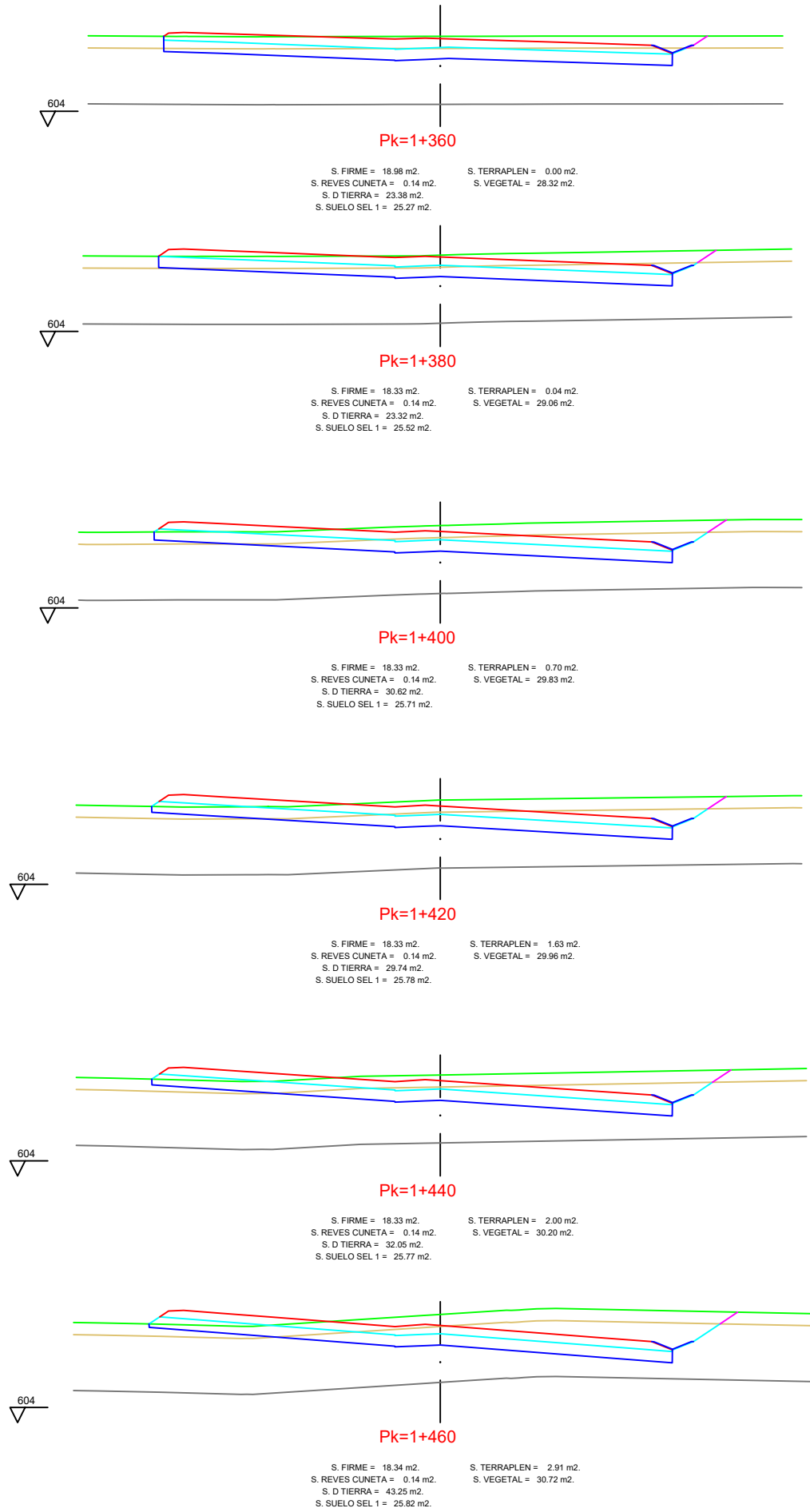
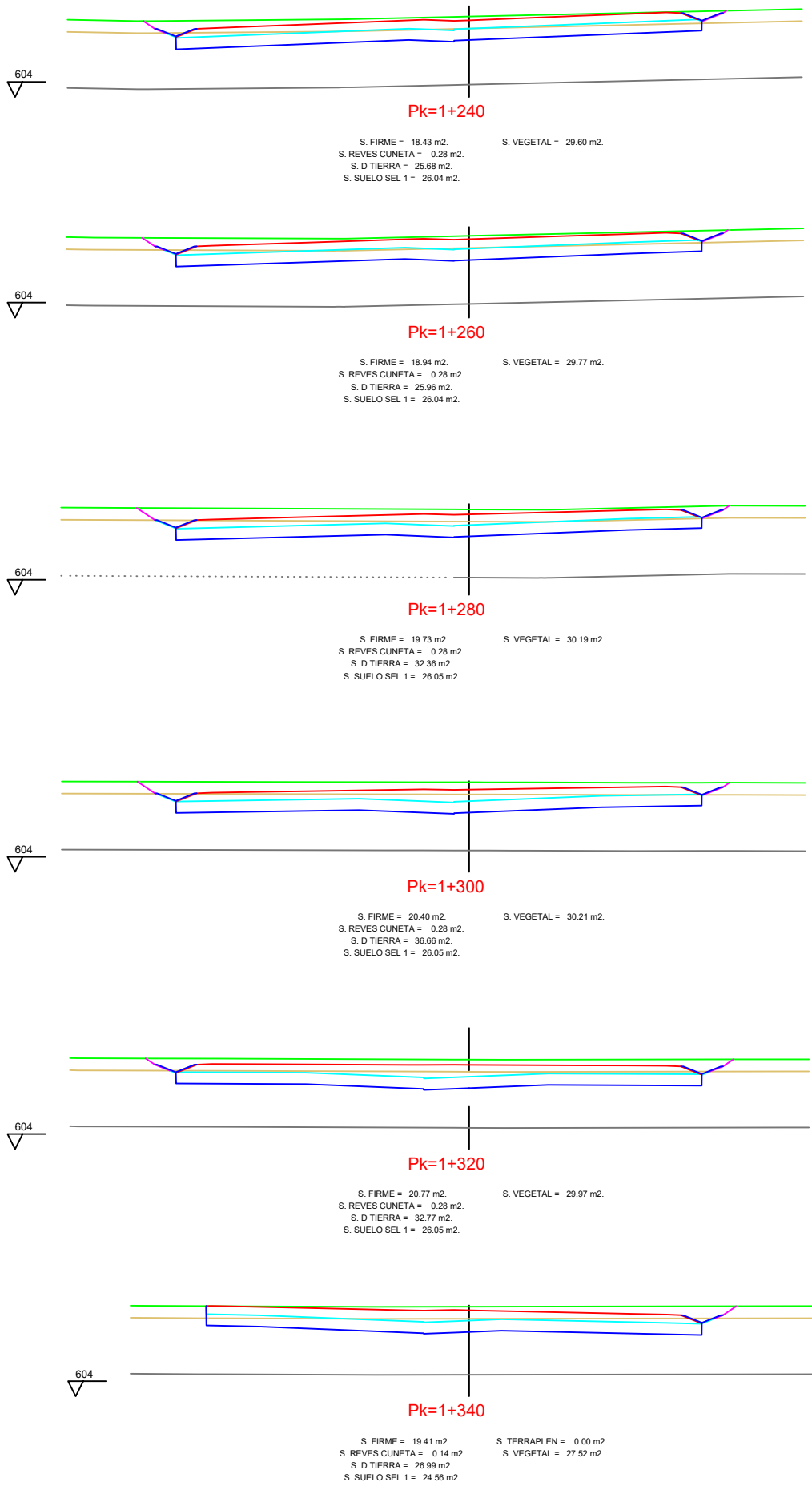




EJE 1  
PK 1+000 - 1+220

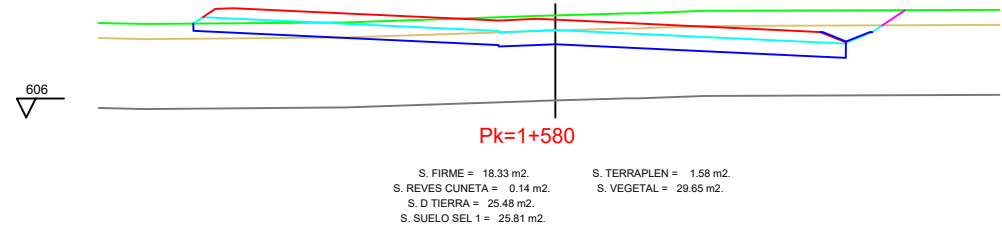
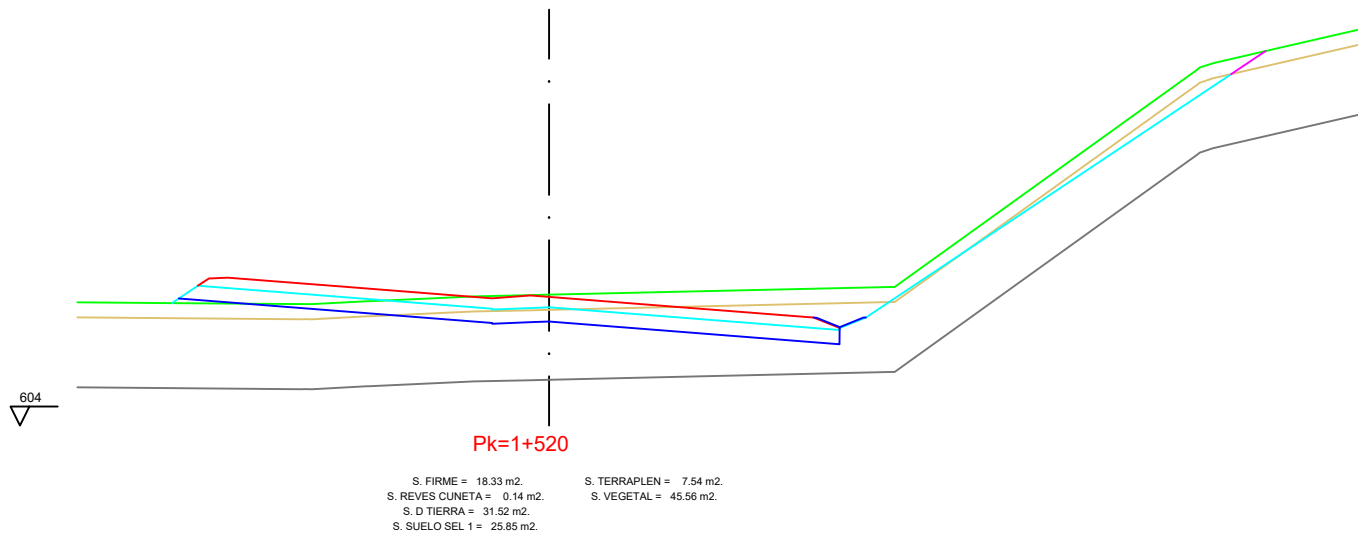
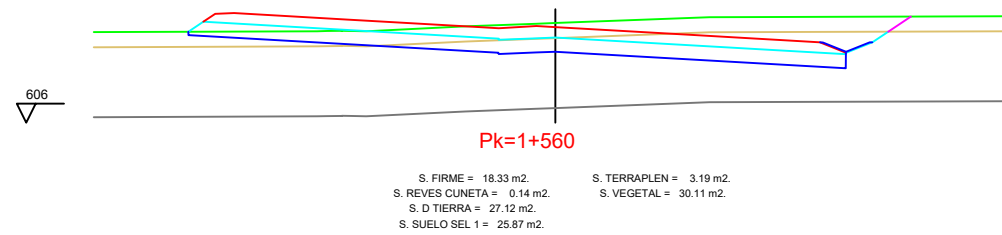
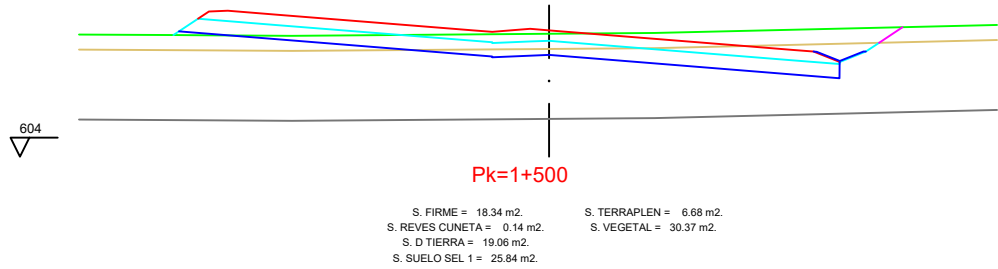
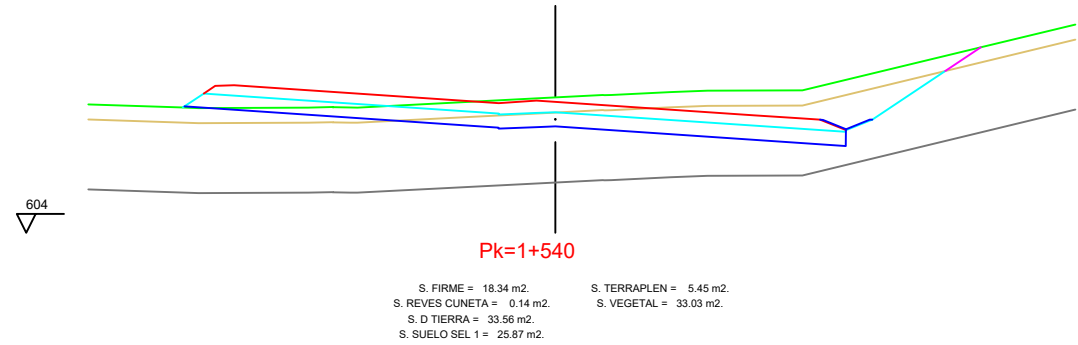
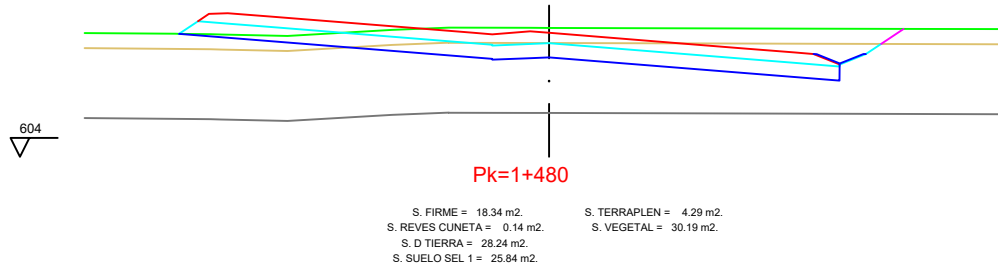


EJE 1  
PK 1+240 - 1+460

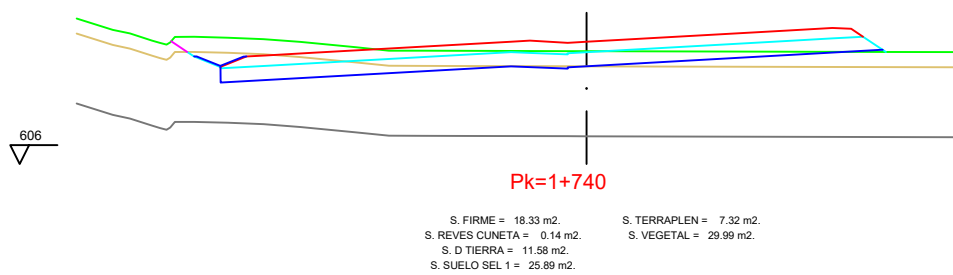
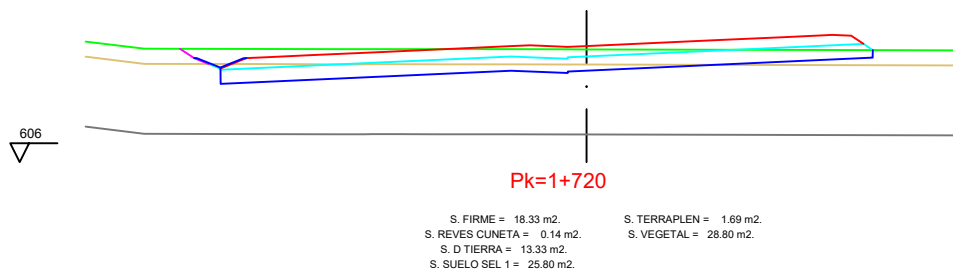
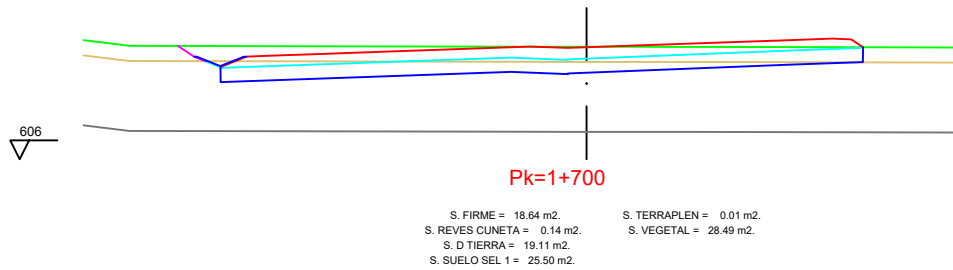
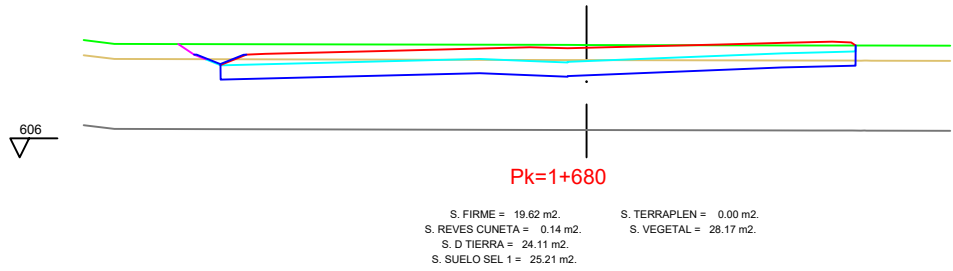
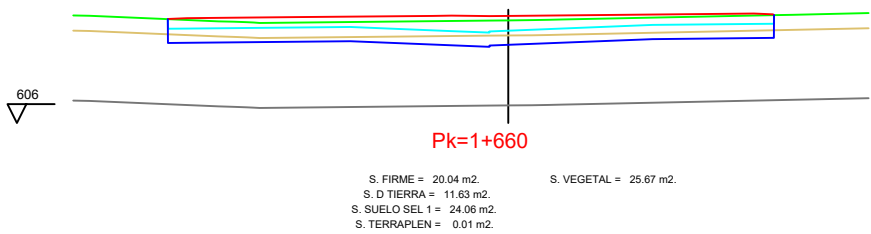
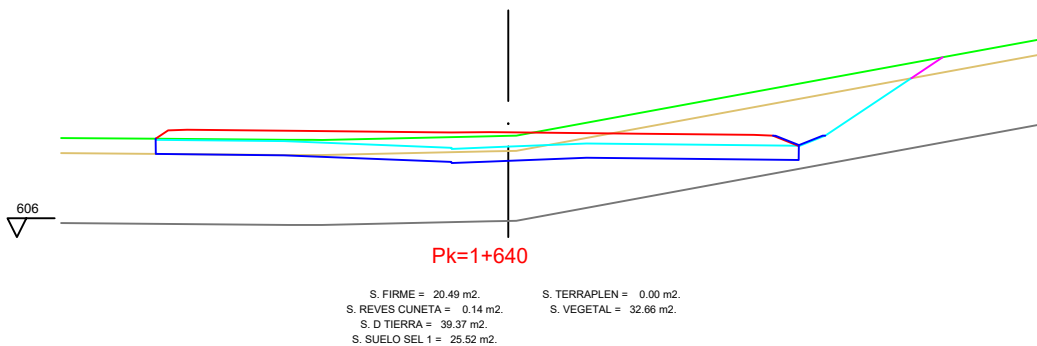
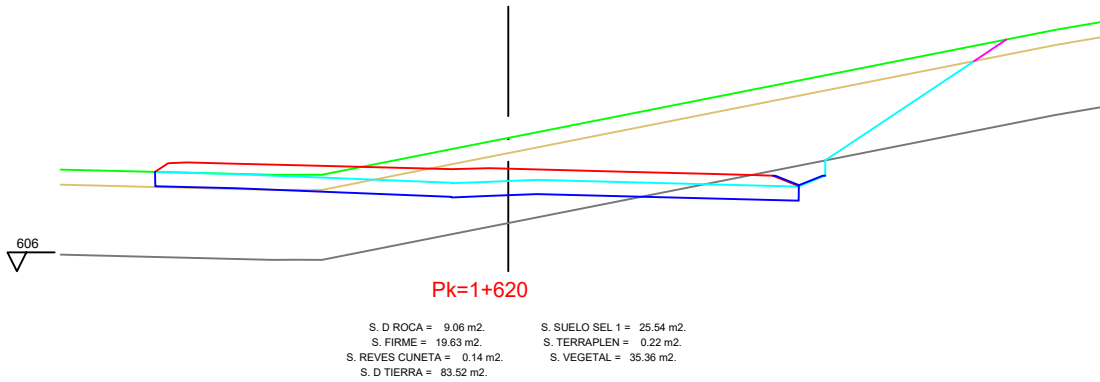
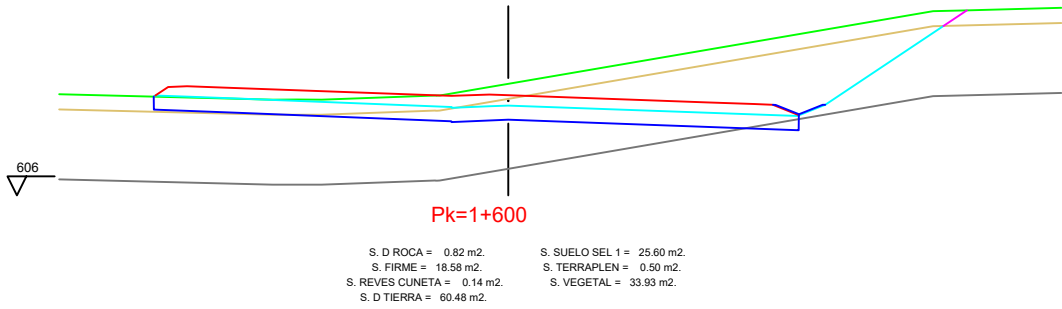




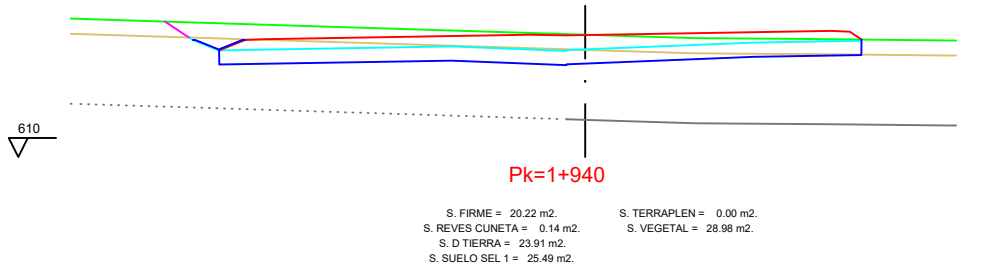
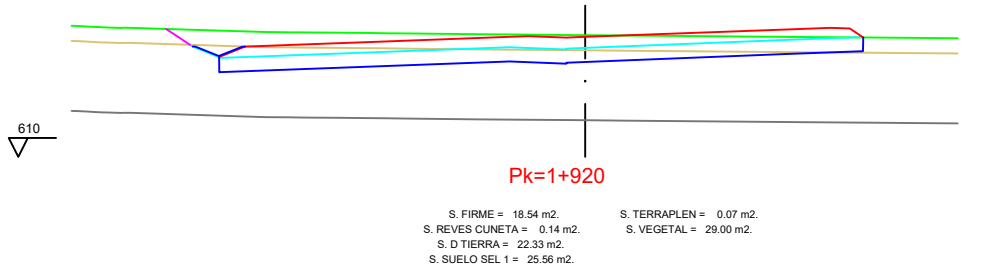
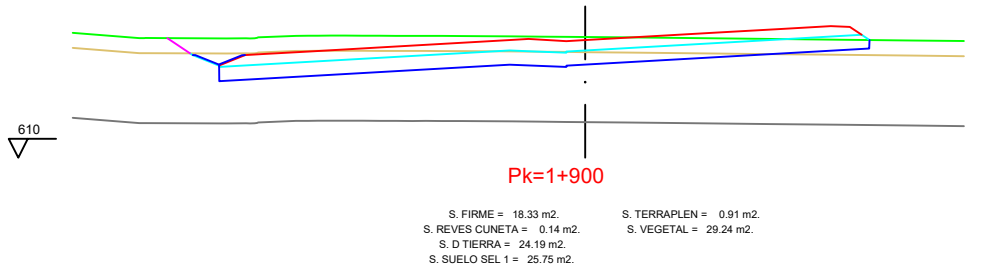
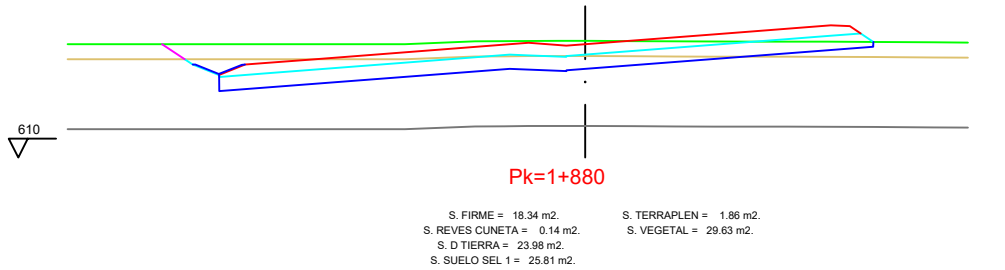
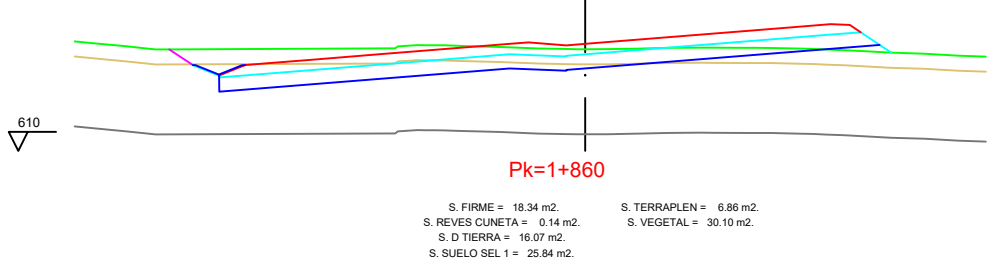
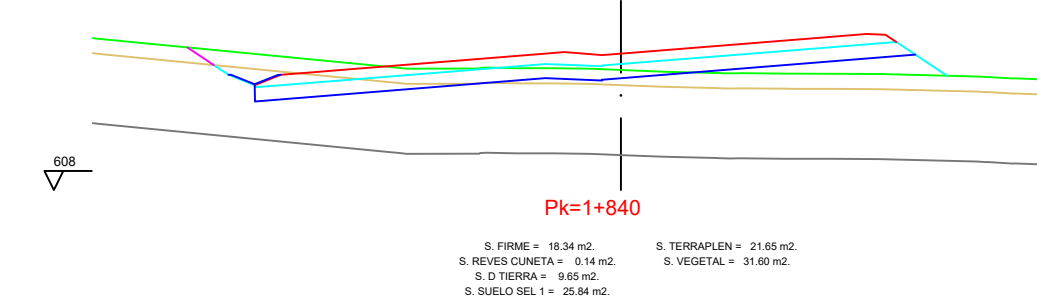
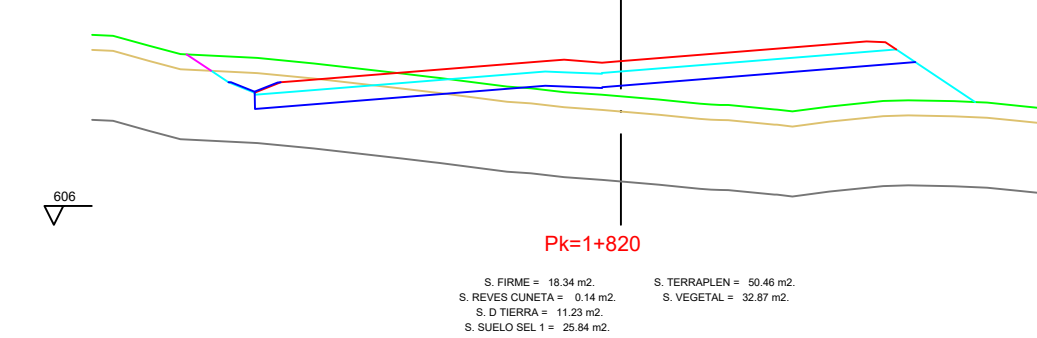
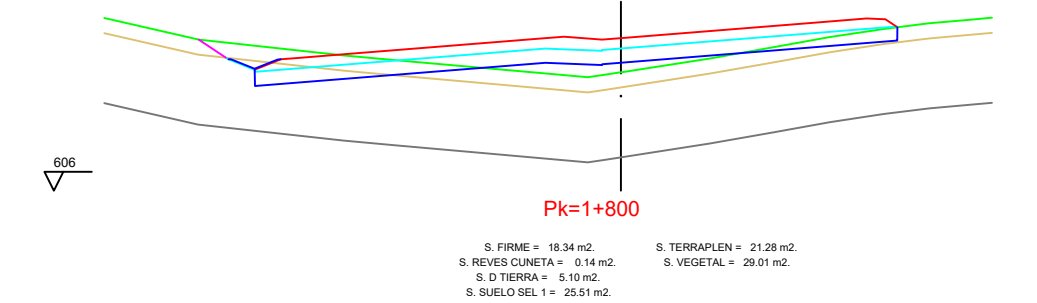
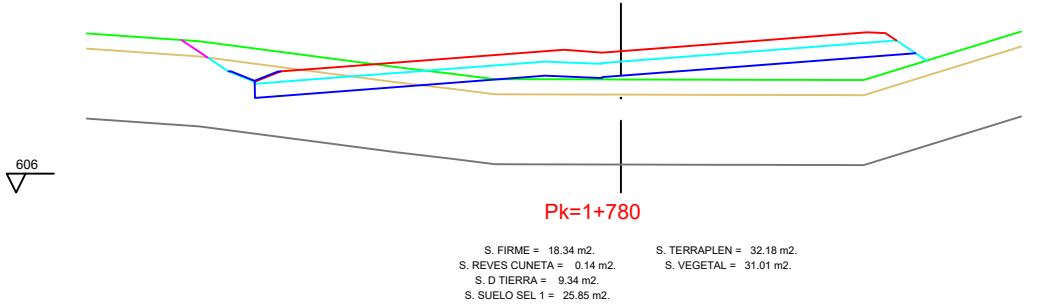
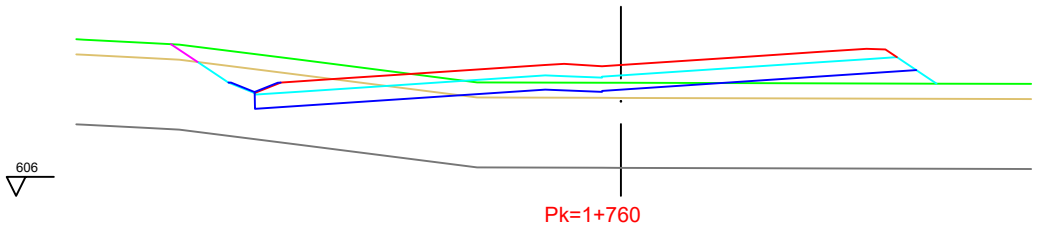
EJE 1  
PK 1+480 - 1+580



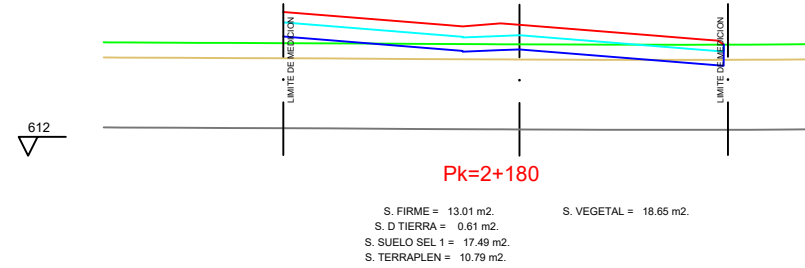
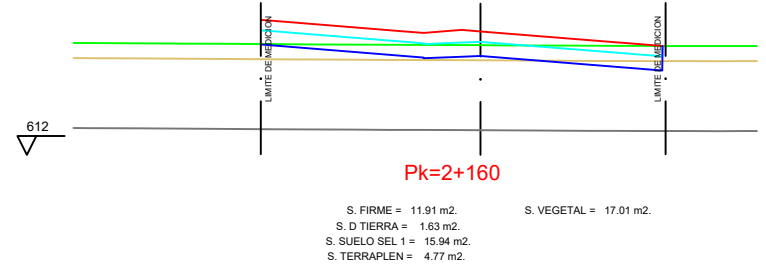
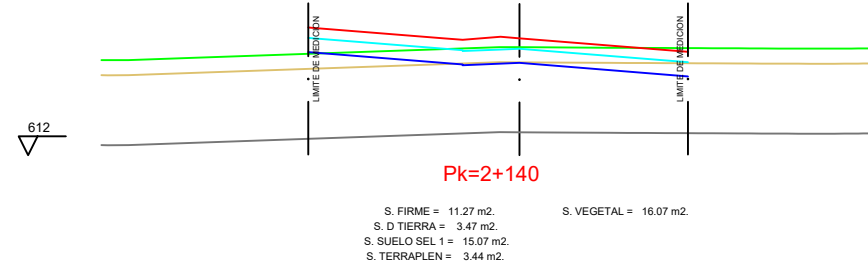
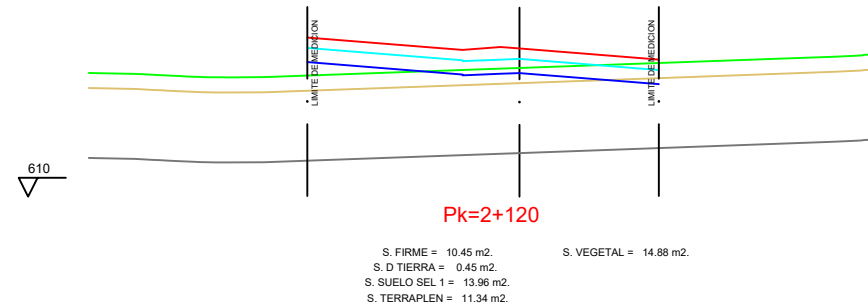
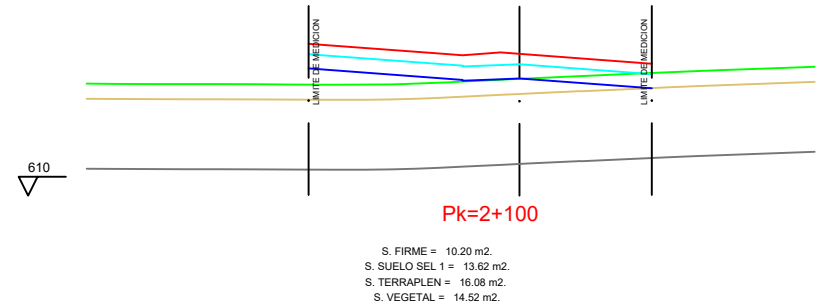
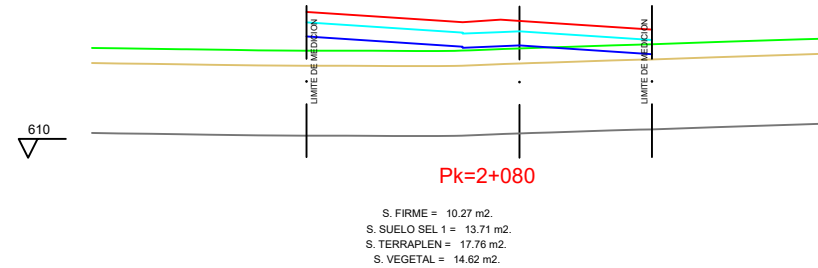
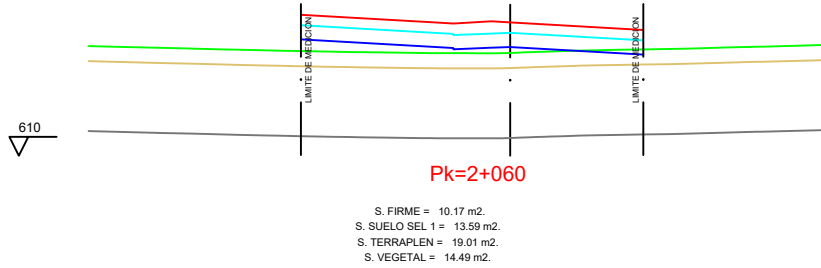
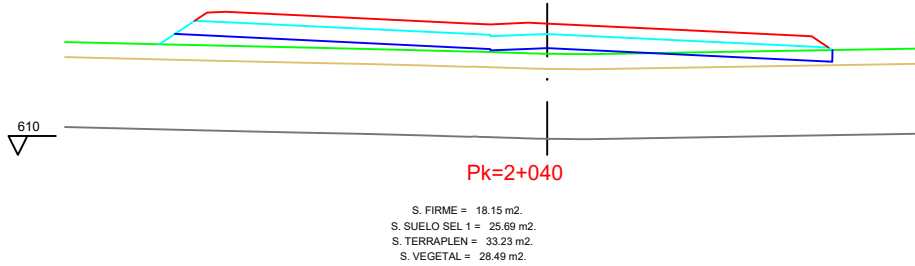
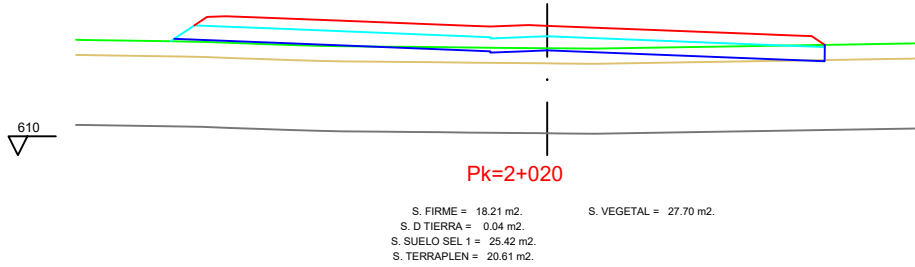
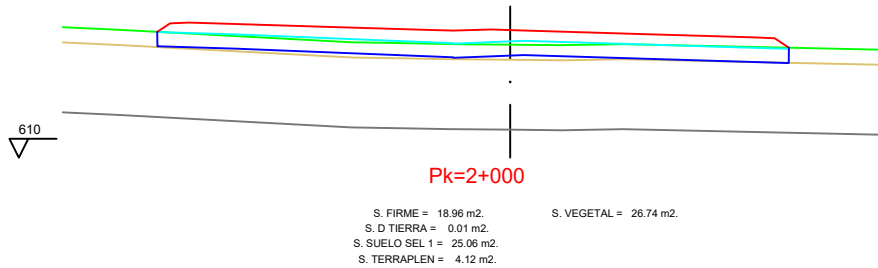
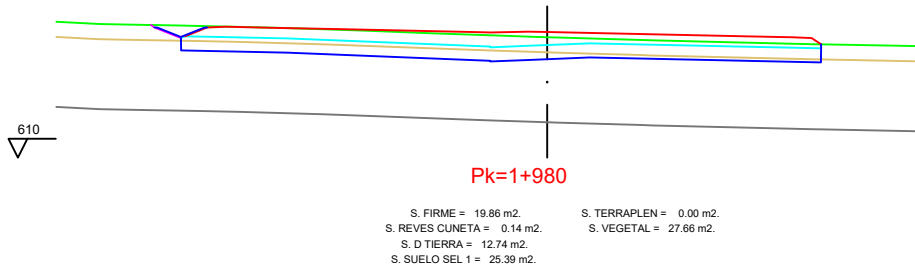
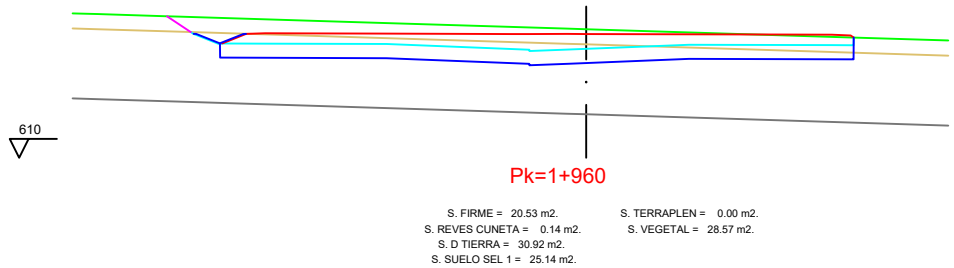
EJE 1  
PK 1+600 - 1+740



EJE 1  
PK 1+760 - 1+940



EJE 1  
PK 1+960 - 2+180



ORGANISMO



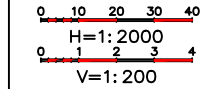
CONSULTOR



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ESCALAS



TITULO DE PROYECTO

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FICHERO

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DESIGNACIÓN

PERFILES TRANSVERSALES  
ALTERNATIVA 4

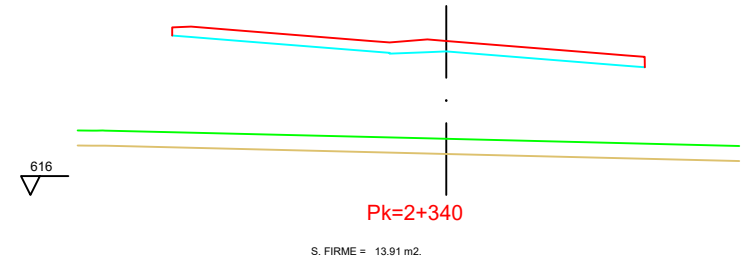
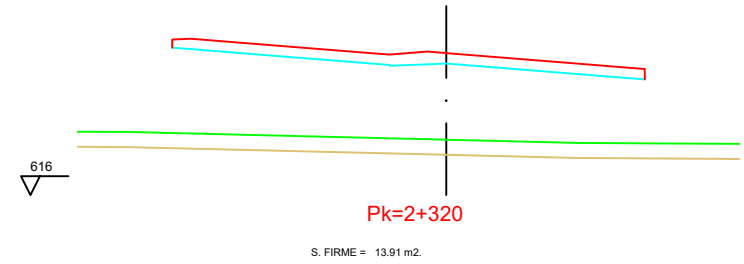
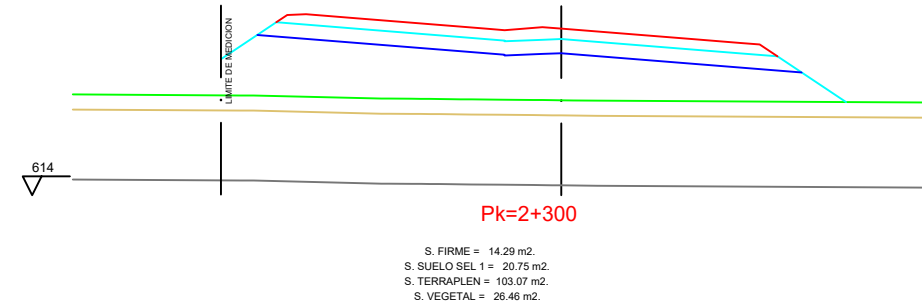
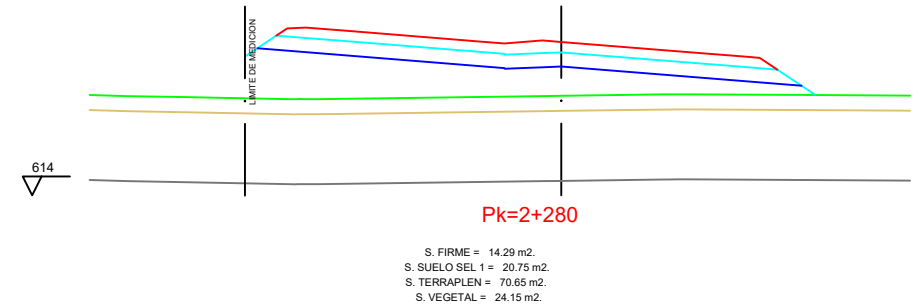
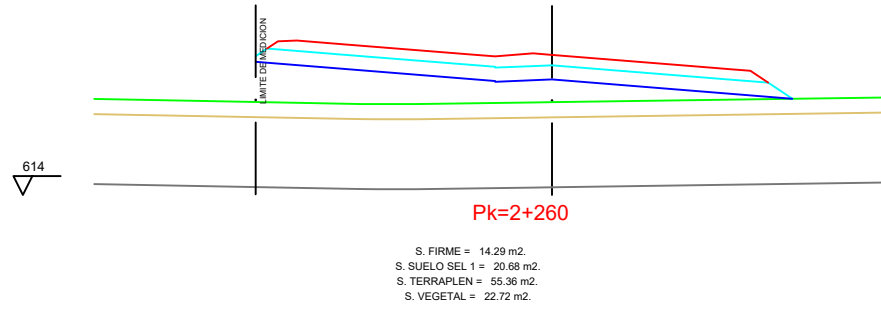
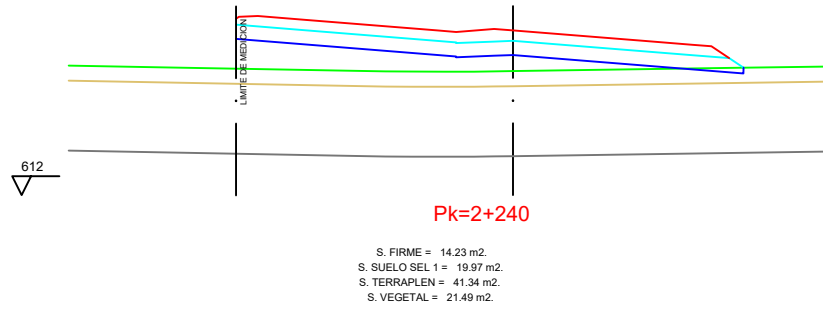
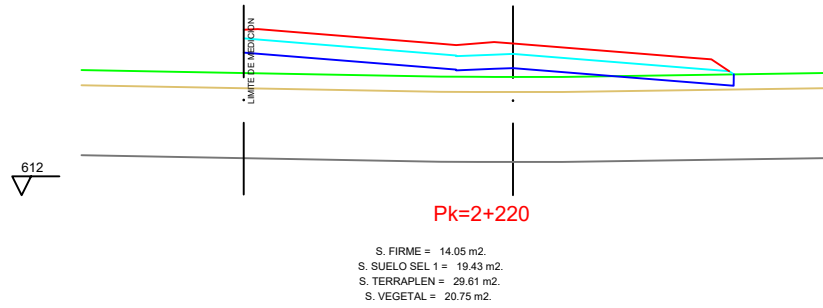
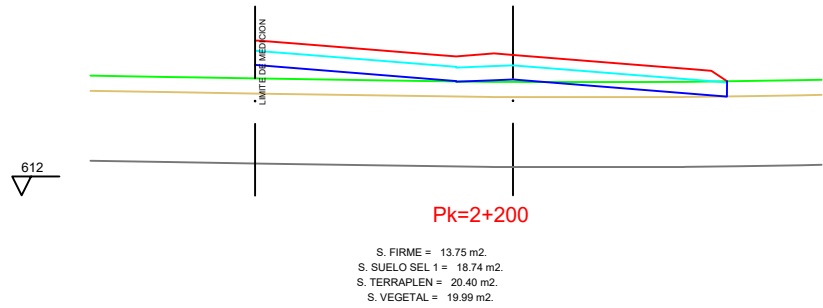
Nº PLANO

06-02.04

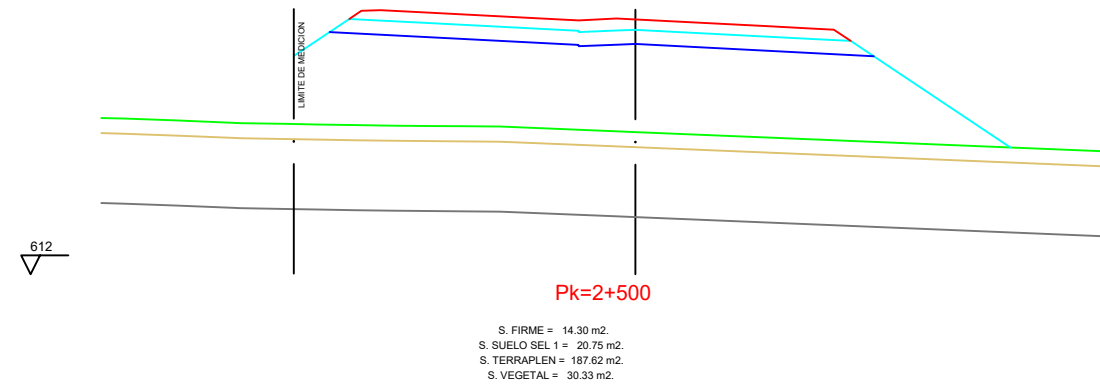
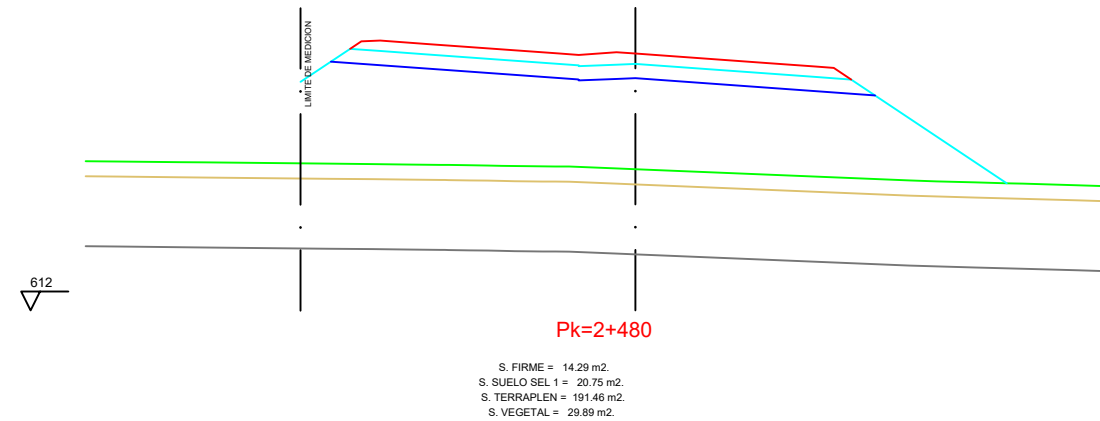
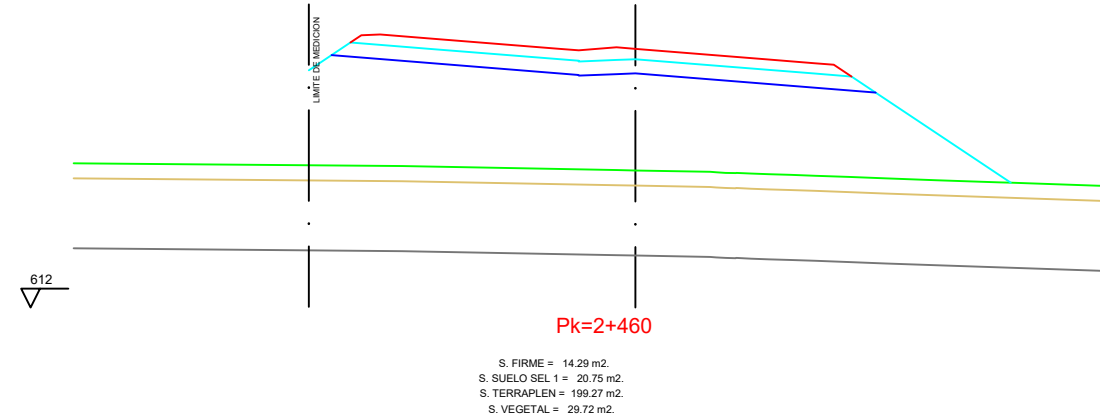
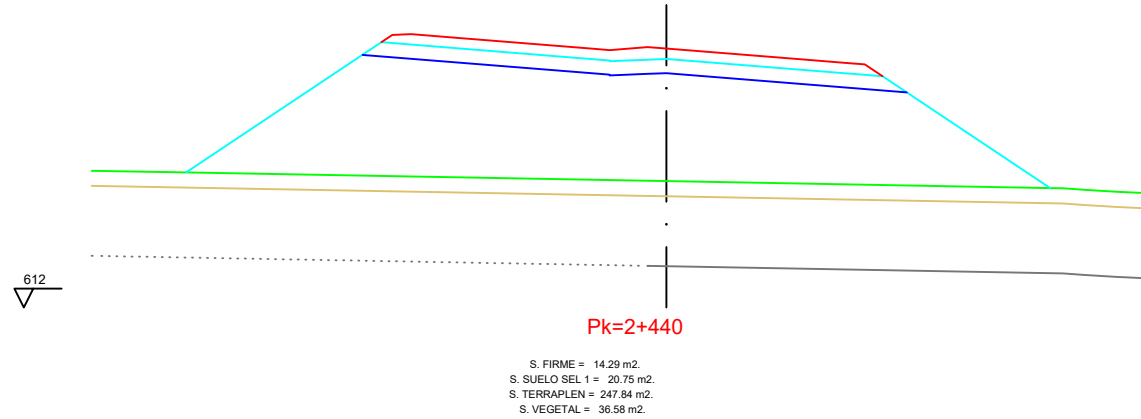
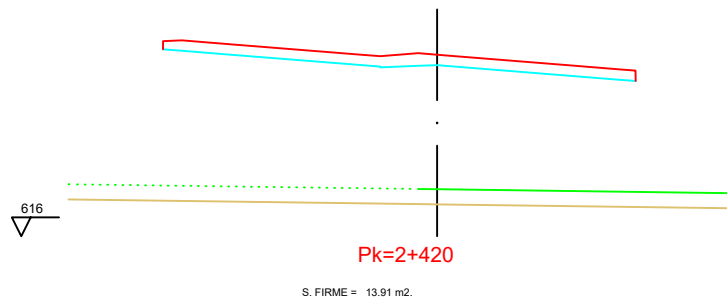
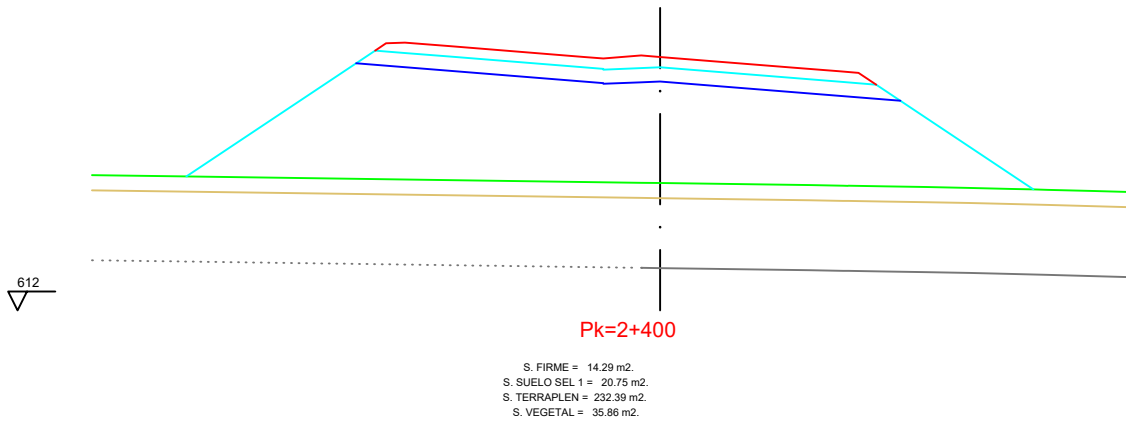
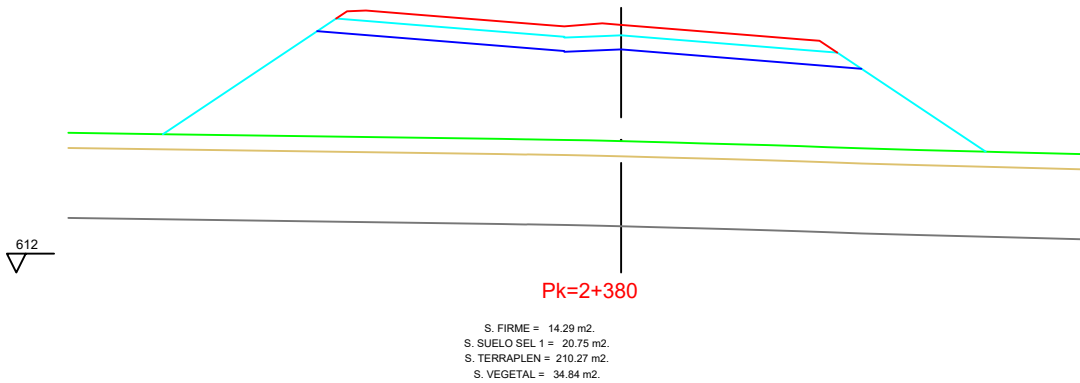
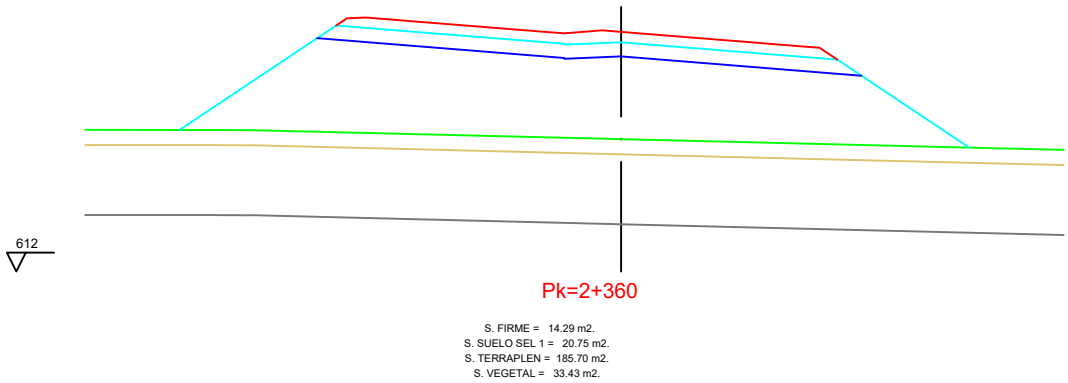
HOJA 10 DE 50



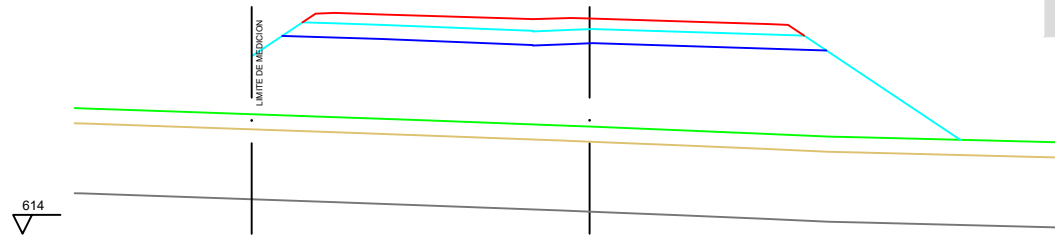
EJE 1  
PK 2+200 - 2+340



EJE 1  
PK 2+360 - 2+500

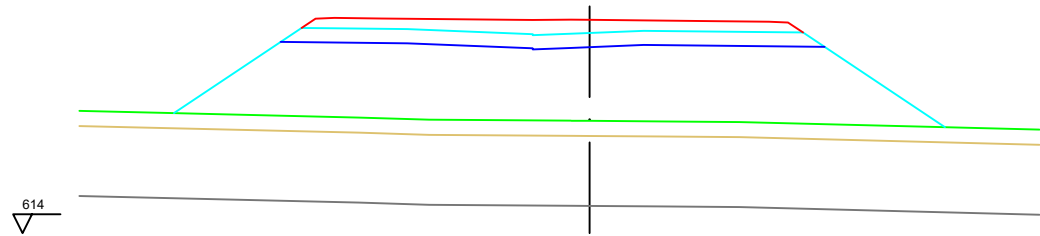


EJE 1  
PK 2+520 - 2+700



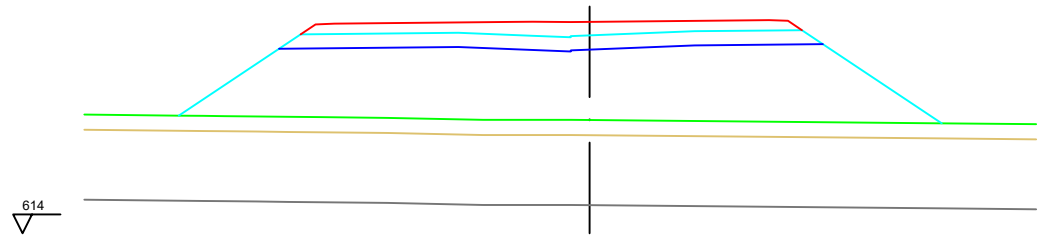
Pk=2+520

S. FIRME = 14.82 m2.  
S. SUELO SEL 1 = 20.75 m2.  
S. TERRAPLEN = 176.78 m2.  
S. VEGETAL = 30.00 m2.



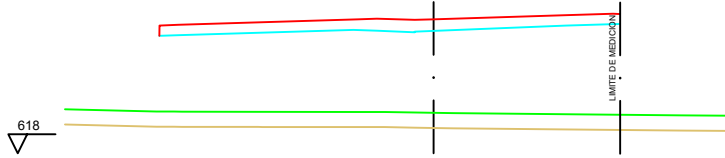
Pk=2+540

S. FIRME = 15.57 m2.  
S. SUELO SEL 1 = 20.74 m2.  
S. TERRAPLEN = 170.73 m2.  
S. VEGETAL = 32.64 m2.



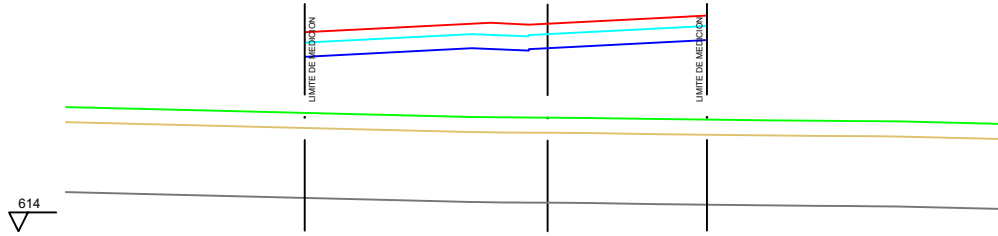
Pk=2+560

S. FIRME = 15.59 m2.  
S. SUELO SEL 1 = 20.74 m2.  
S. TERRAPLEN = 164.90 m2.  
S. VEGETAL = 32.30 m2.



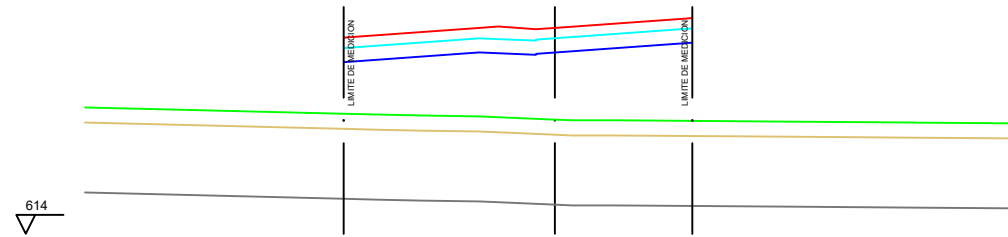
Pk=2+580

S. FIRME = 13.95 m2.



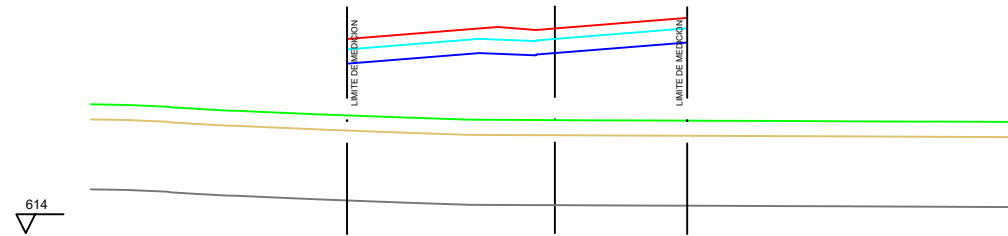
Pk=2+600

S. FIRME = 11.91 m2.  
S. SUELO SEL 1 = 15.97 m2.  
S. TERRAPLEN = 93.86 m2.  
S. VEGETAL = 17.03 m2.



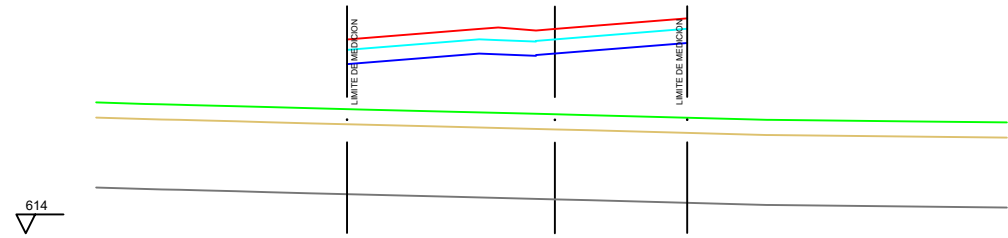
Pk=2+620

S. FIRME = 10.36 m2.  
S. SUELO SEL 1 = 13.84 m2.  
S. TERRAPLEN = 78.39 m2.  
S. VEGETAL = 14.76 m2.



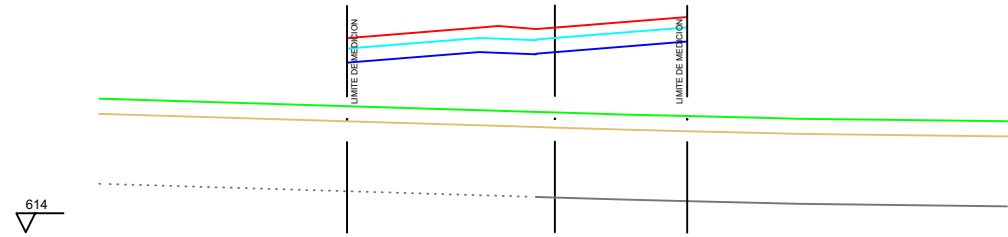
Pk=2+640

S. FIRME = 10.12 m2.  
S. SUELO SEL 1 = 13.50 m2.  
S. TERRAPLEN = 77.25 m2.  
S. VEGETAL = 14.40 m2.



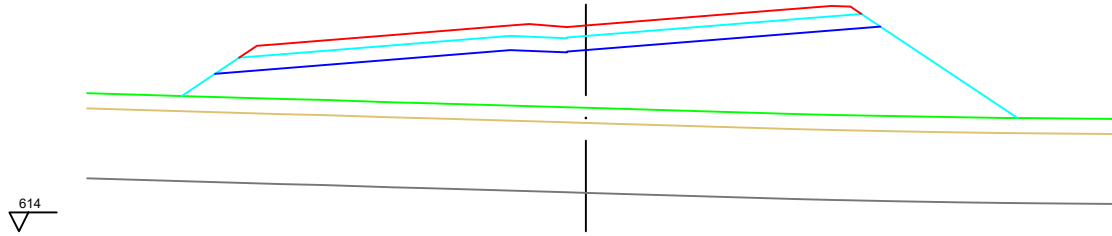
Pk=2+660

S. FIRME = 10.12 m2.  
S. SUELO SEL 1 = 13.50 m2.  
S. TERRAPLEN = 71.13 m2.  
S. VEGETAL = 14.40 m2.



Pk=2+680

S. FIRME = 10.12 m2.  
S. SUELO SEL 1 = 13.50 m2.  
S. TERRAPLEN = 70.49 m2.  
S. VEGETAL = 14.40 m2.



Pk=2+700

S. FIRME = 17.81 m2.  
S. SUELO SEL 1 = 25.55 m2.  
S. TERRAPLEN = 158.68 m2.  
S. VEGETAL = 35.38 m2.

ORGANISMO



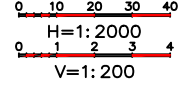
CONSULTOR



AUTOR DEL ESTUDIO



ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

06-02.04.dwg

DESIGNACIÓN

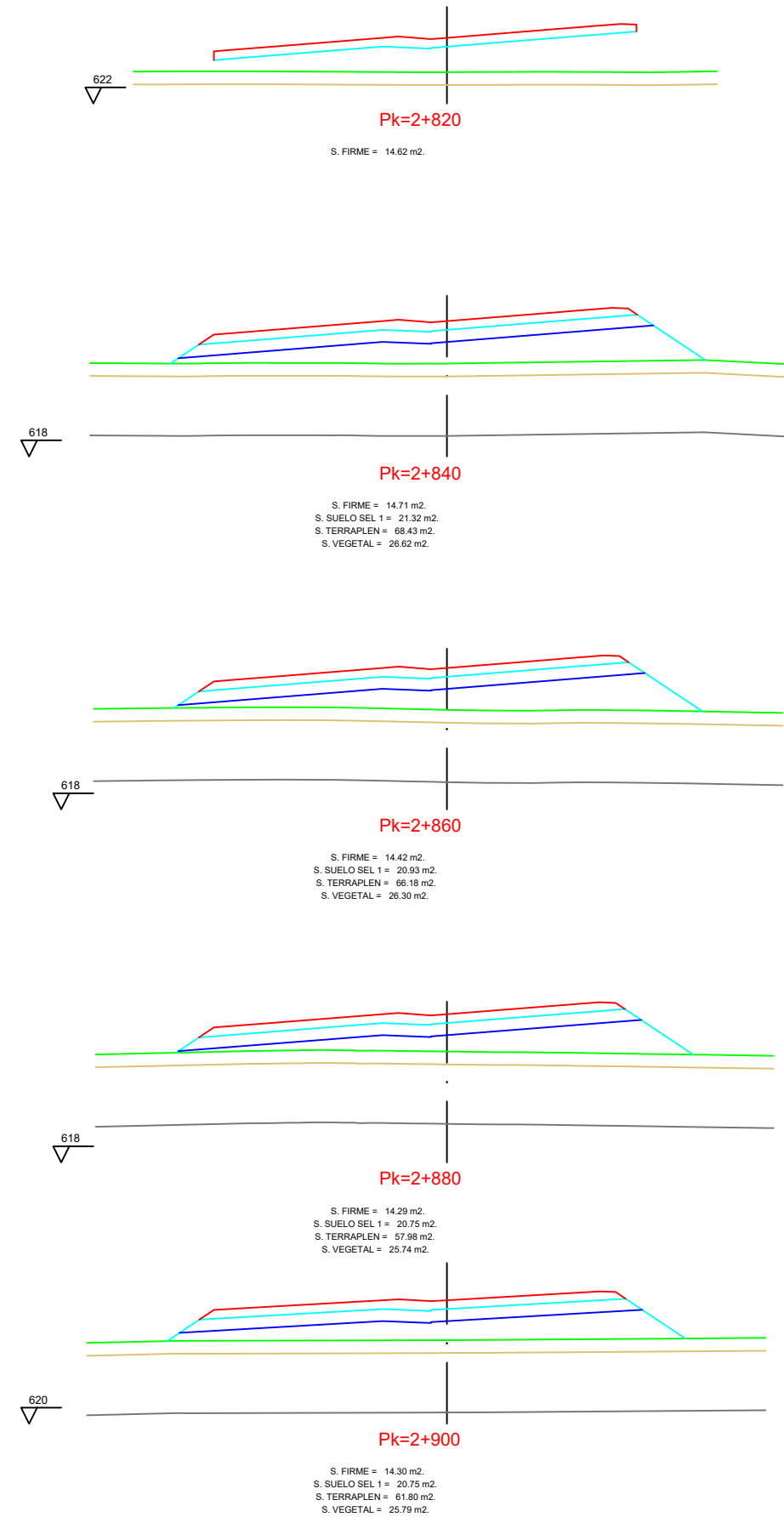
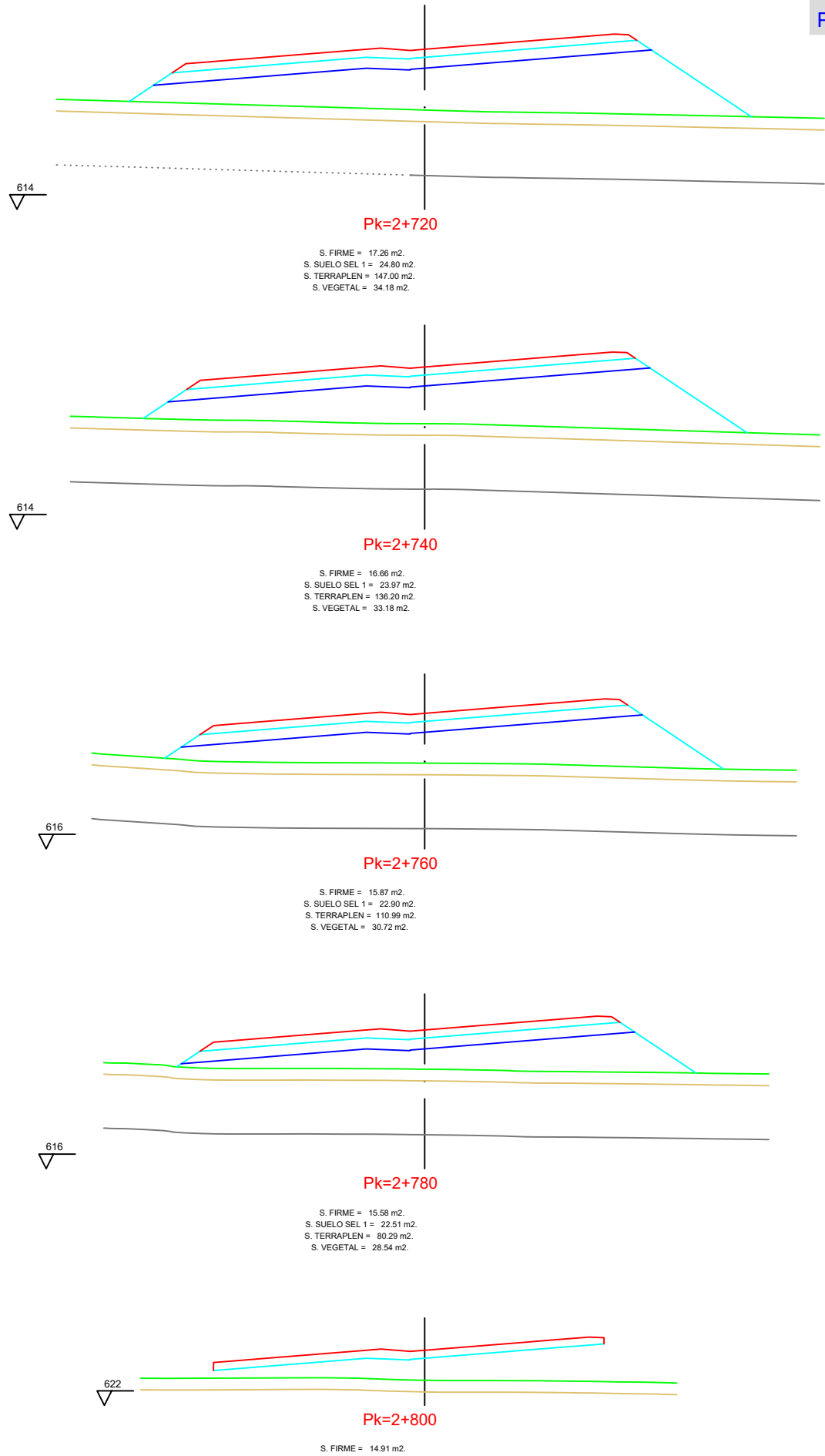
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

06-02.04

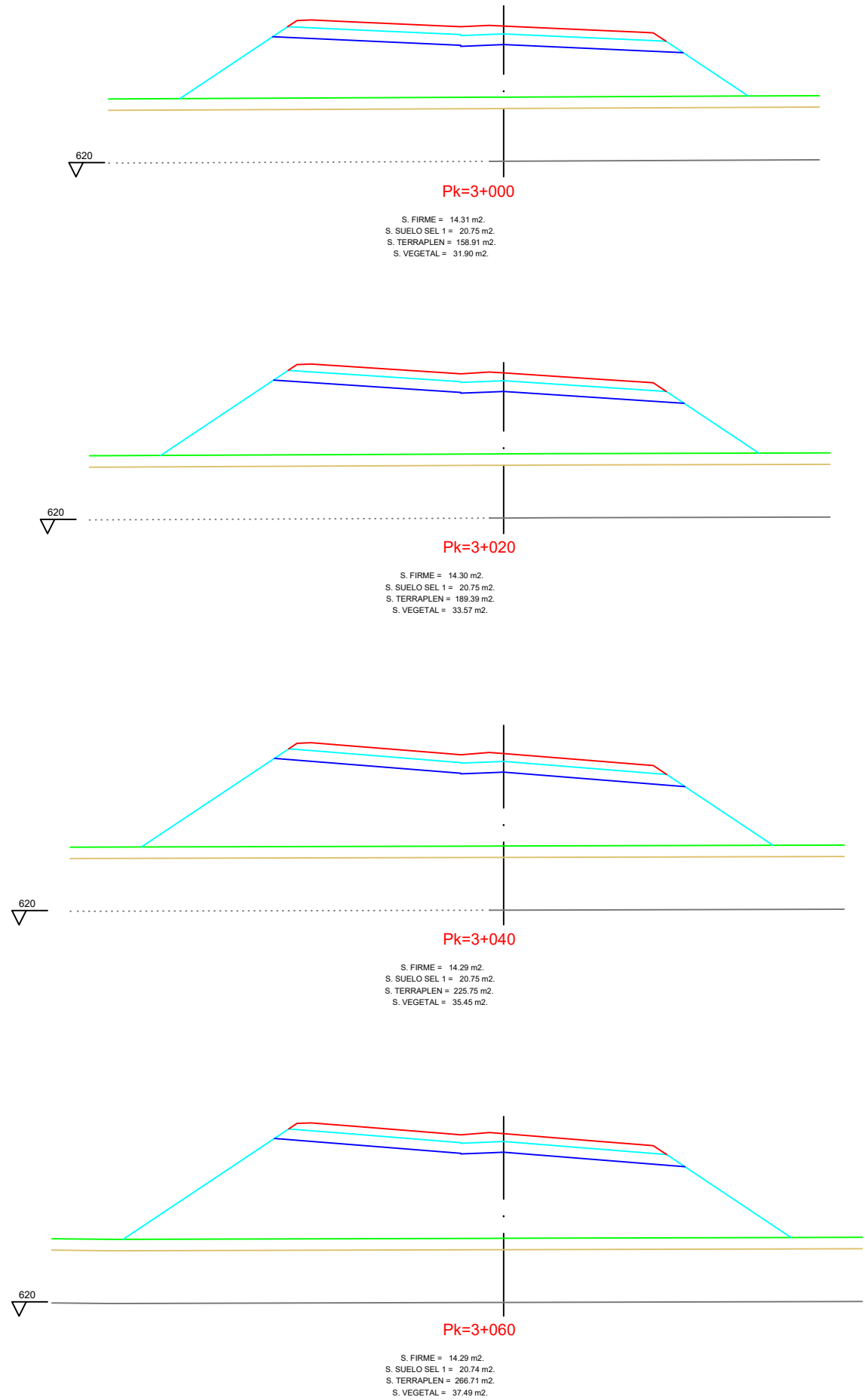
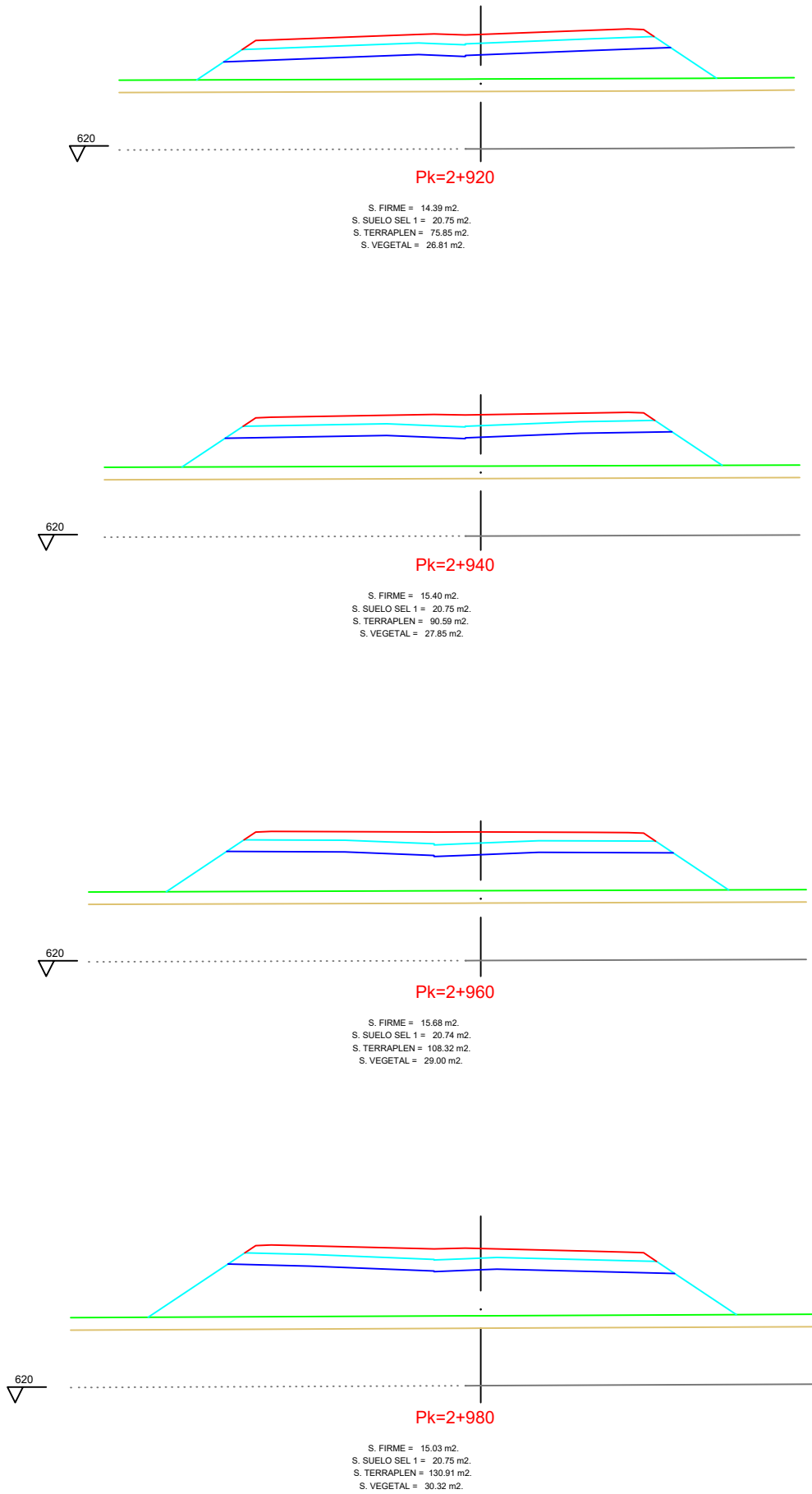
HOJA 13 DE 50

EJE 1  
PK 2+720 - 2+900

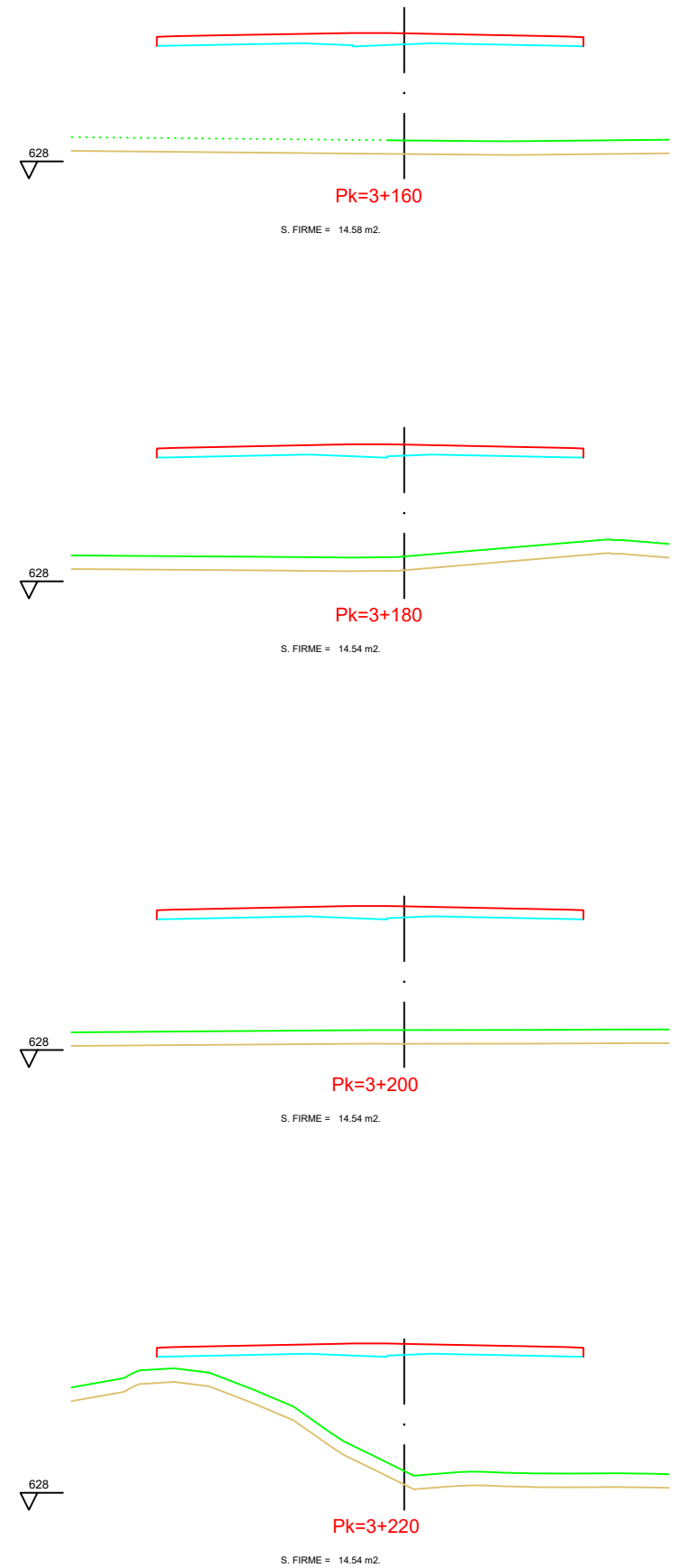
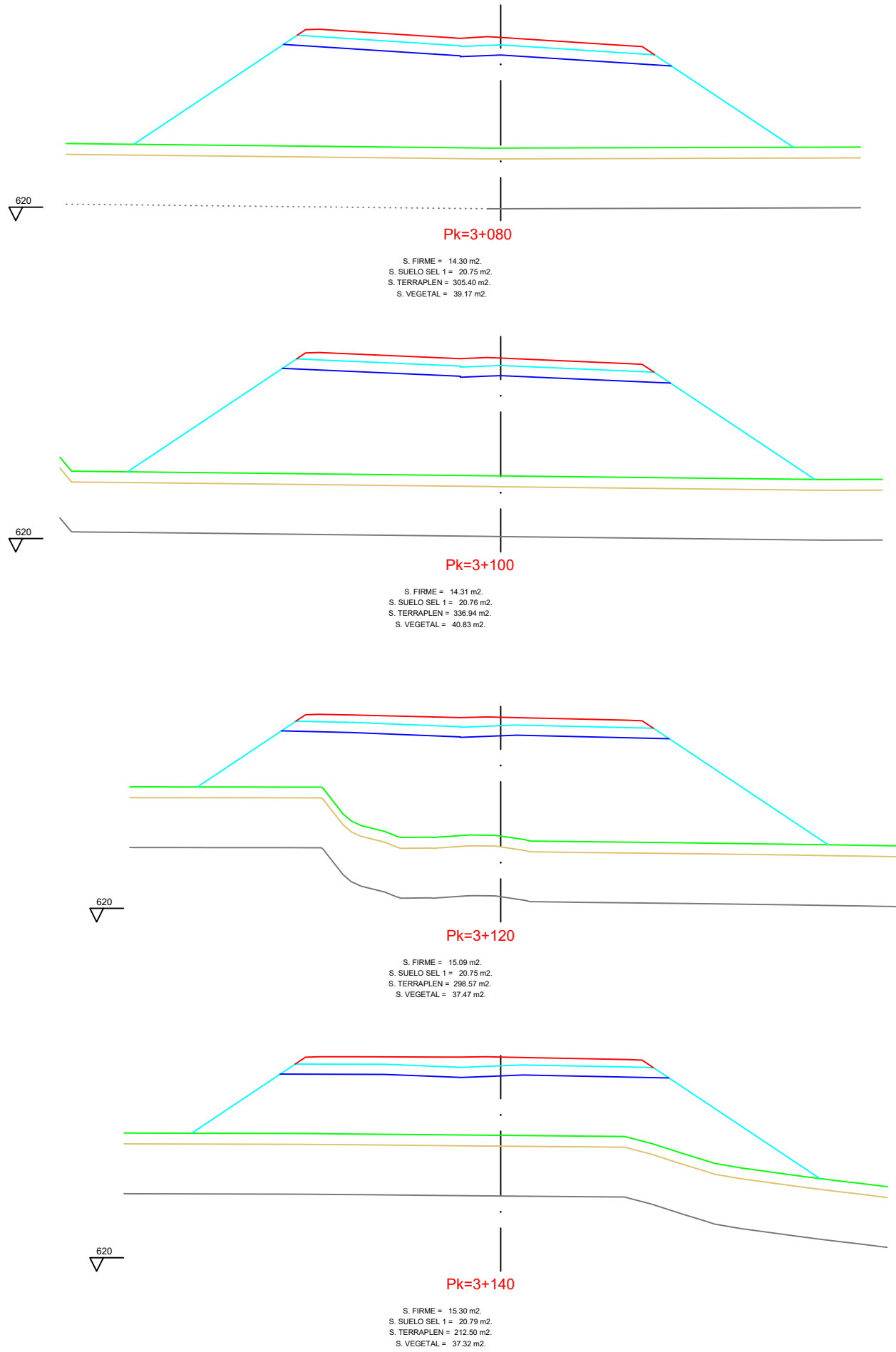


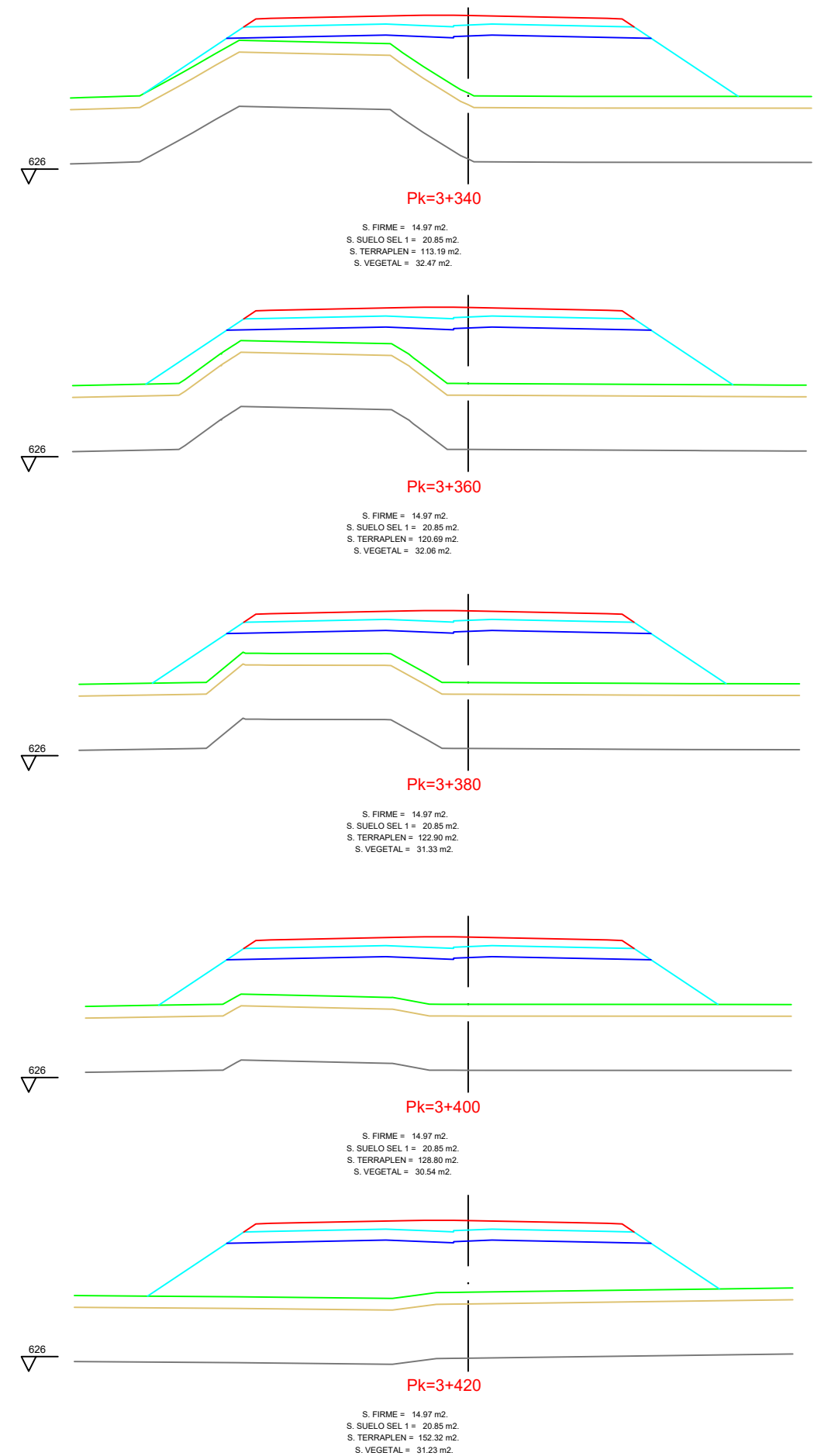


EJE 1  
PK 2+920 - 3+060

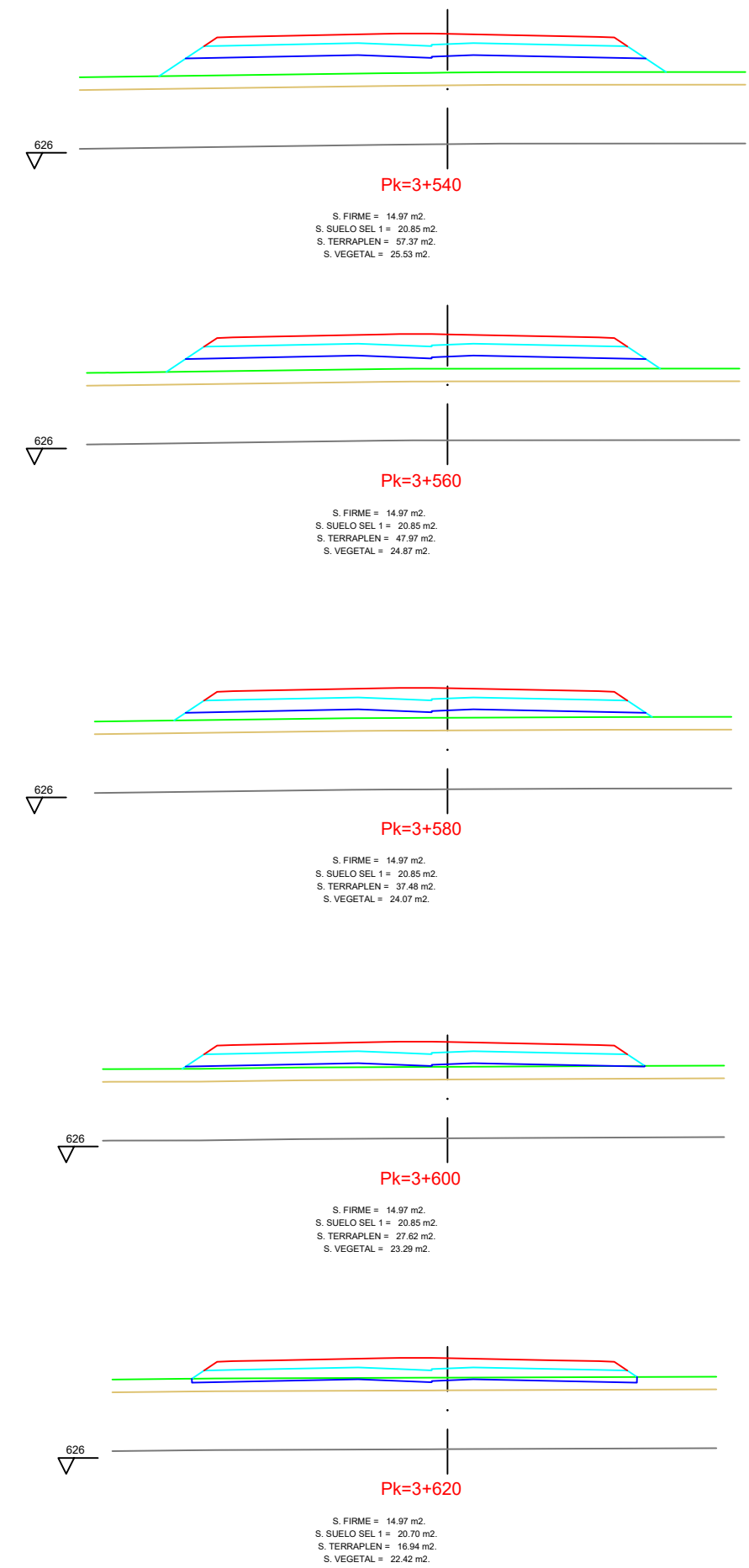
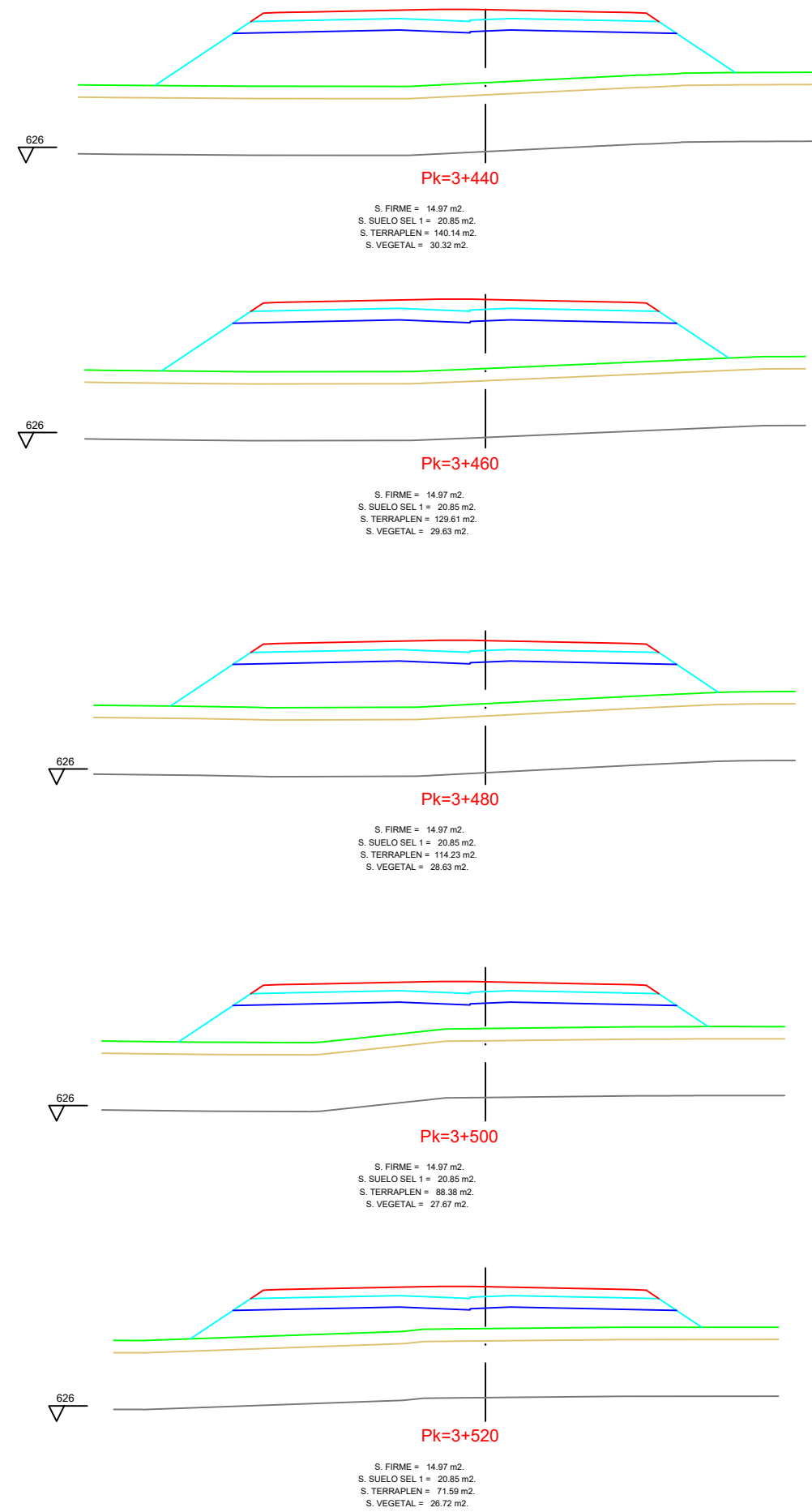


EJE 1  
PK 3+080 - 3+220



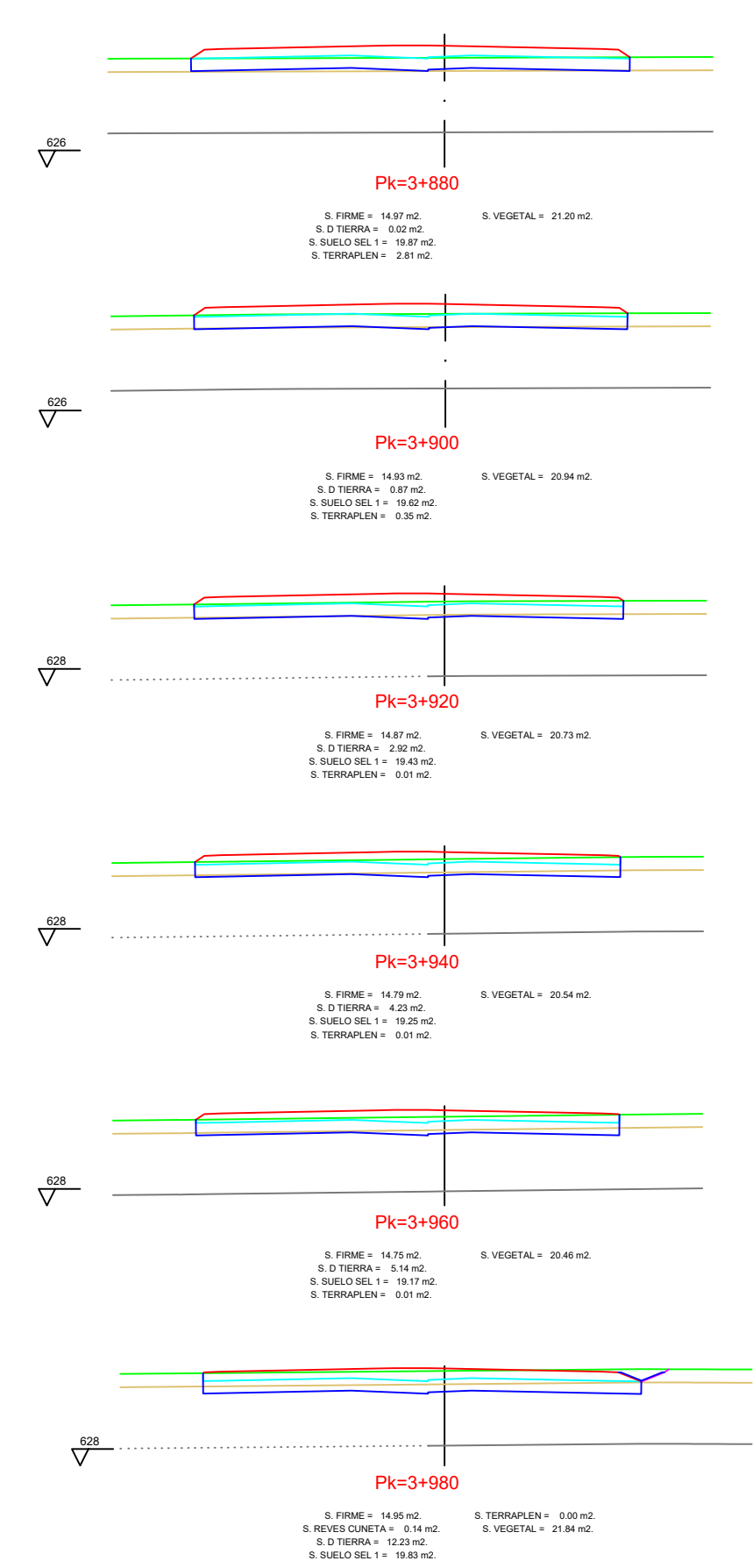
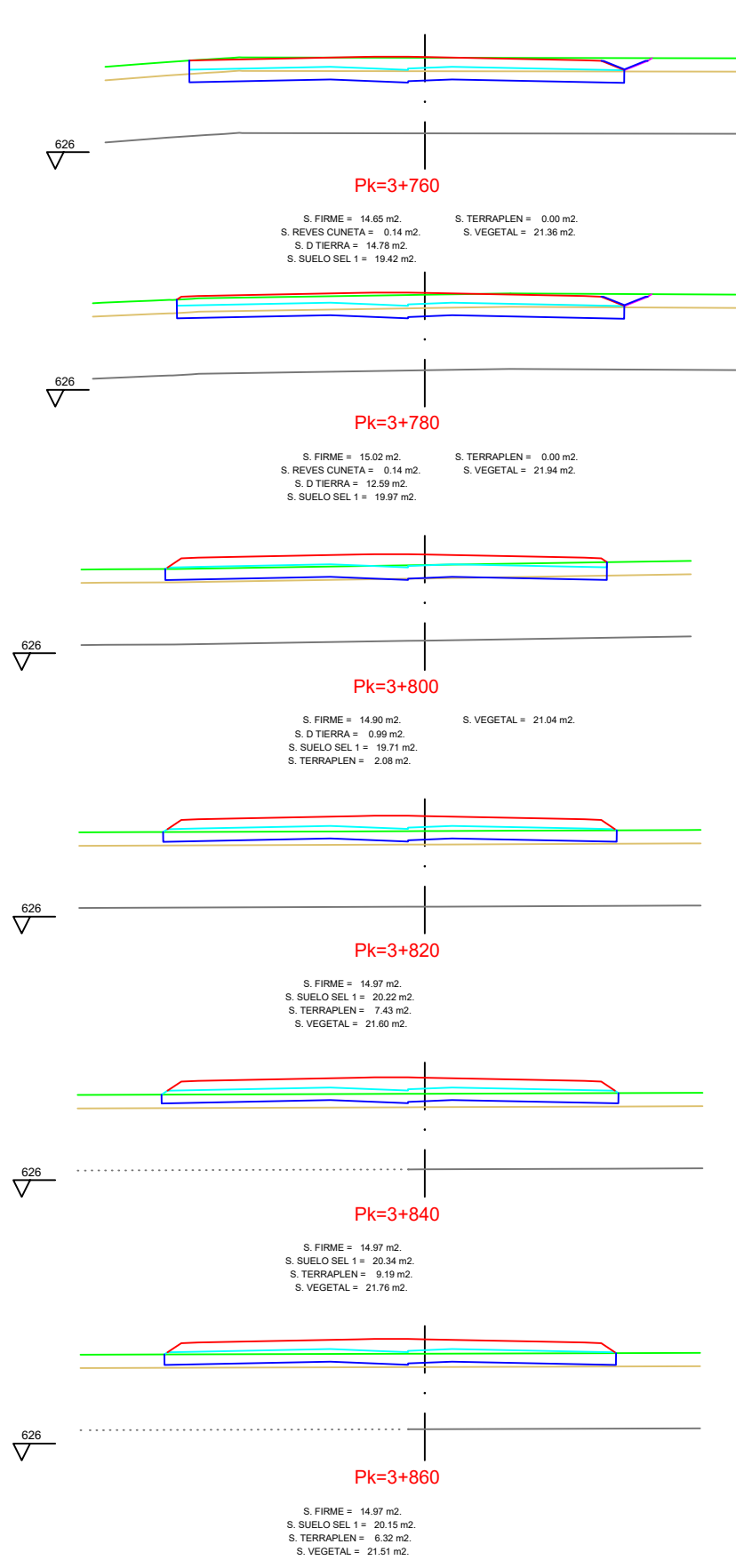
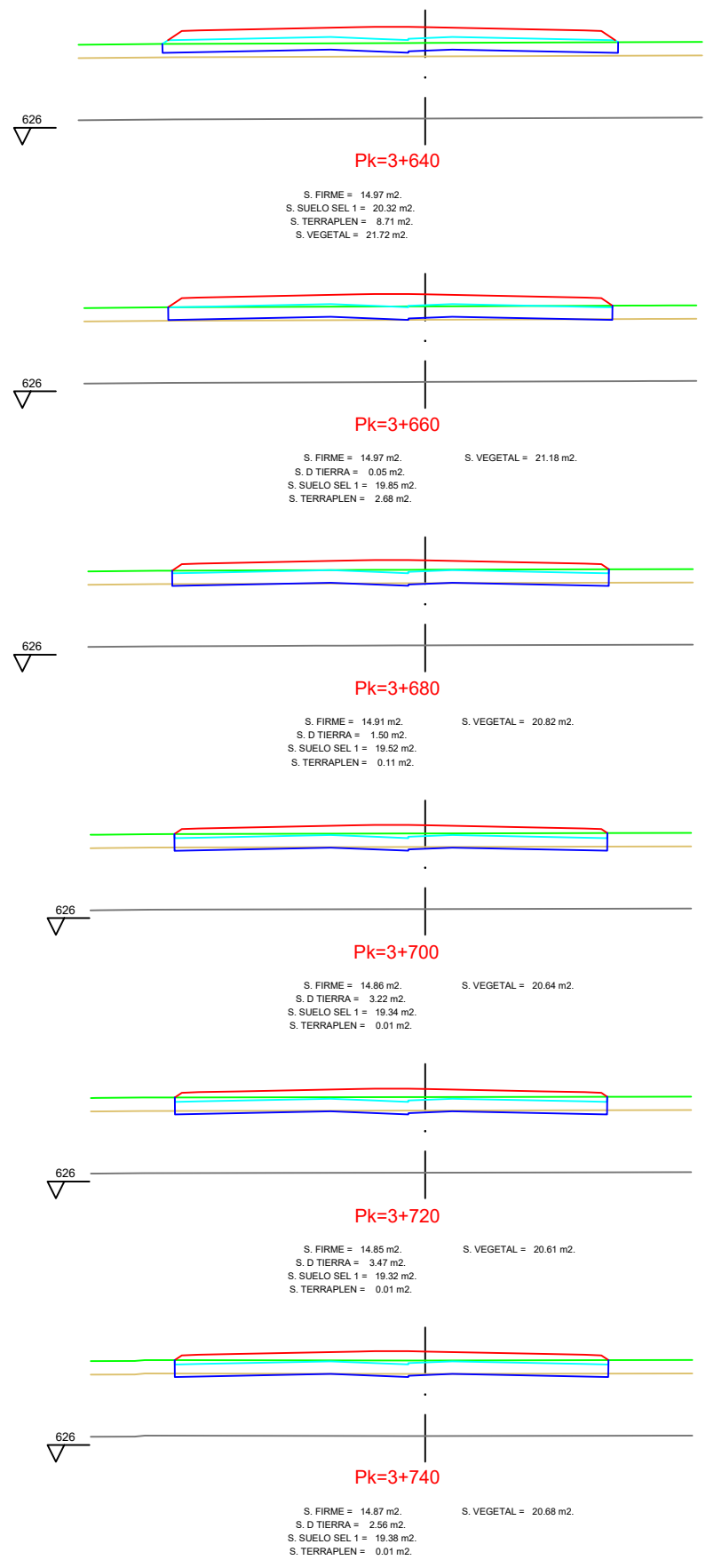


EJE 1  
PK 3+440 - 3+620

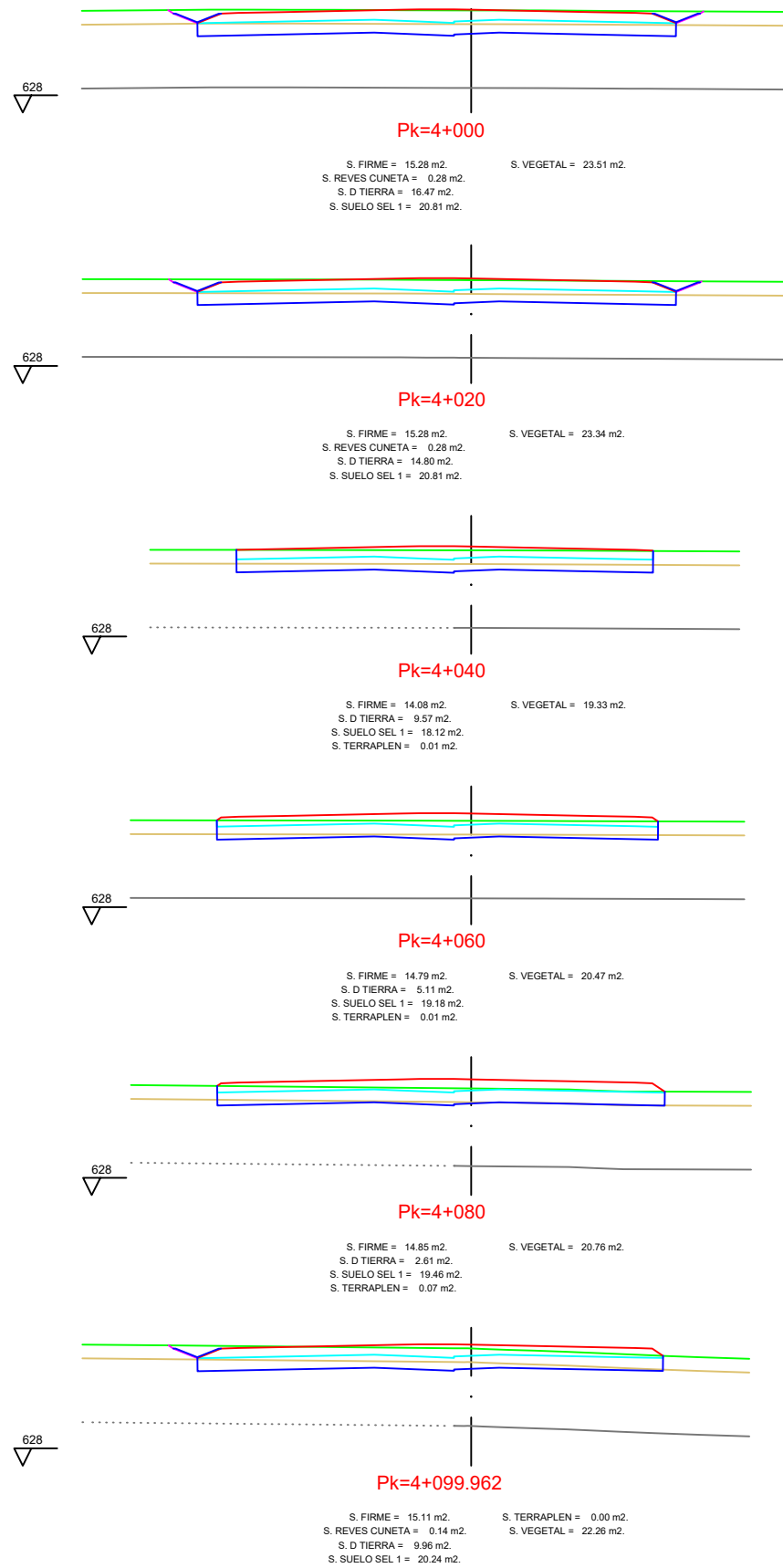




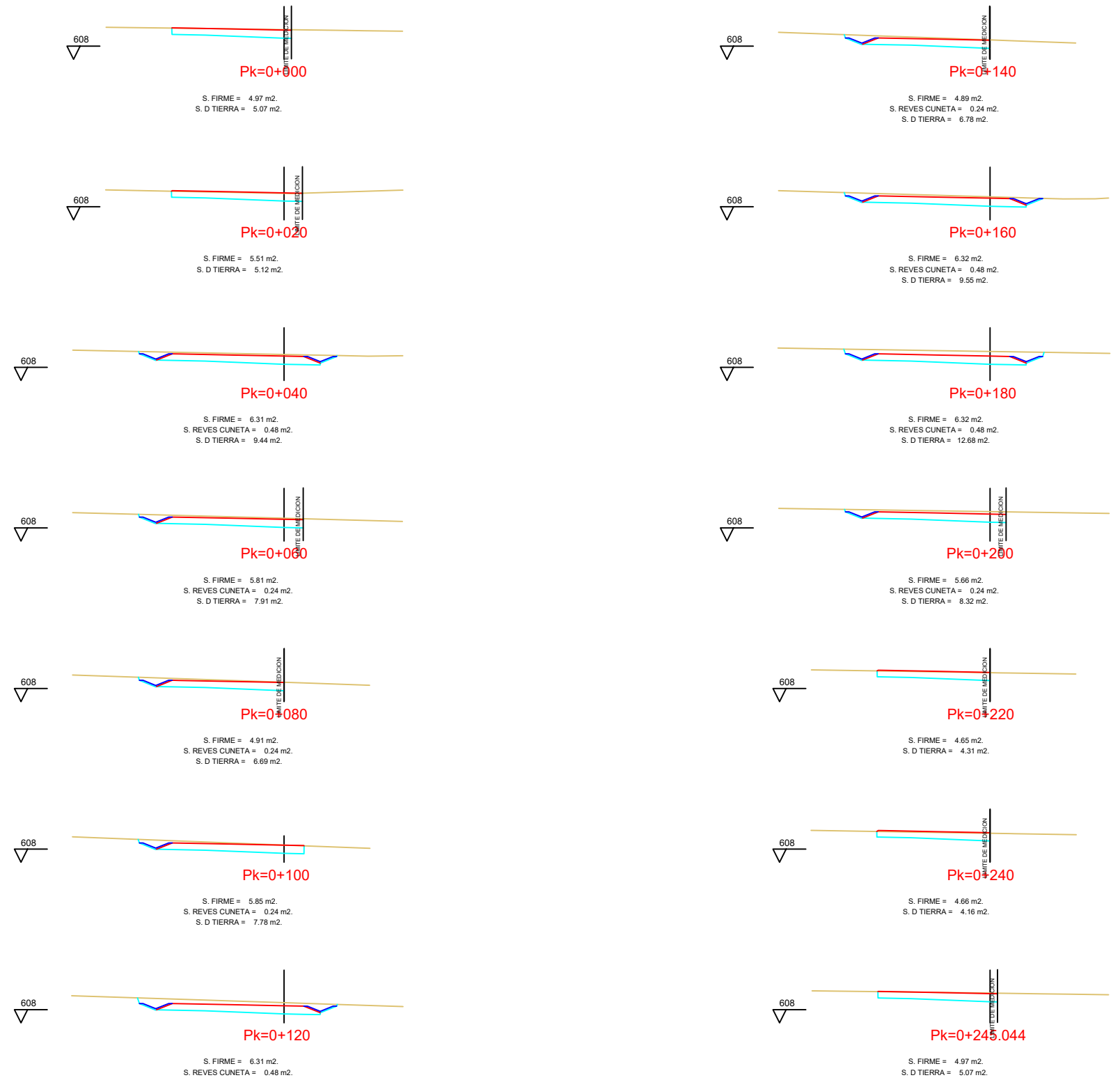
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PK 3+640 - 3+980



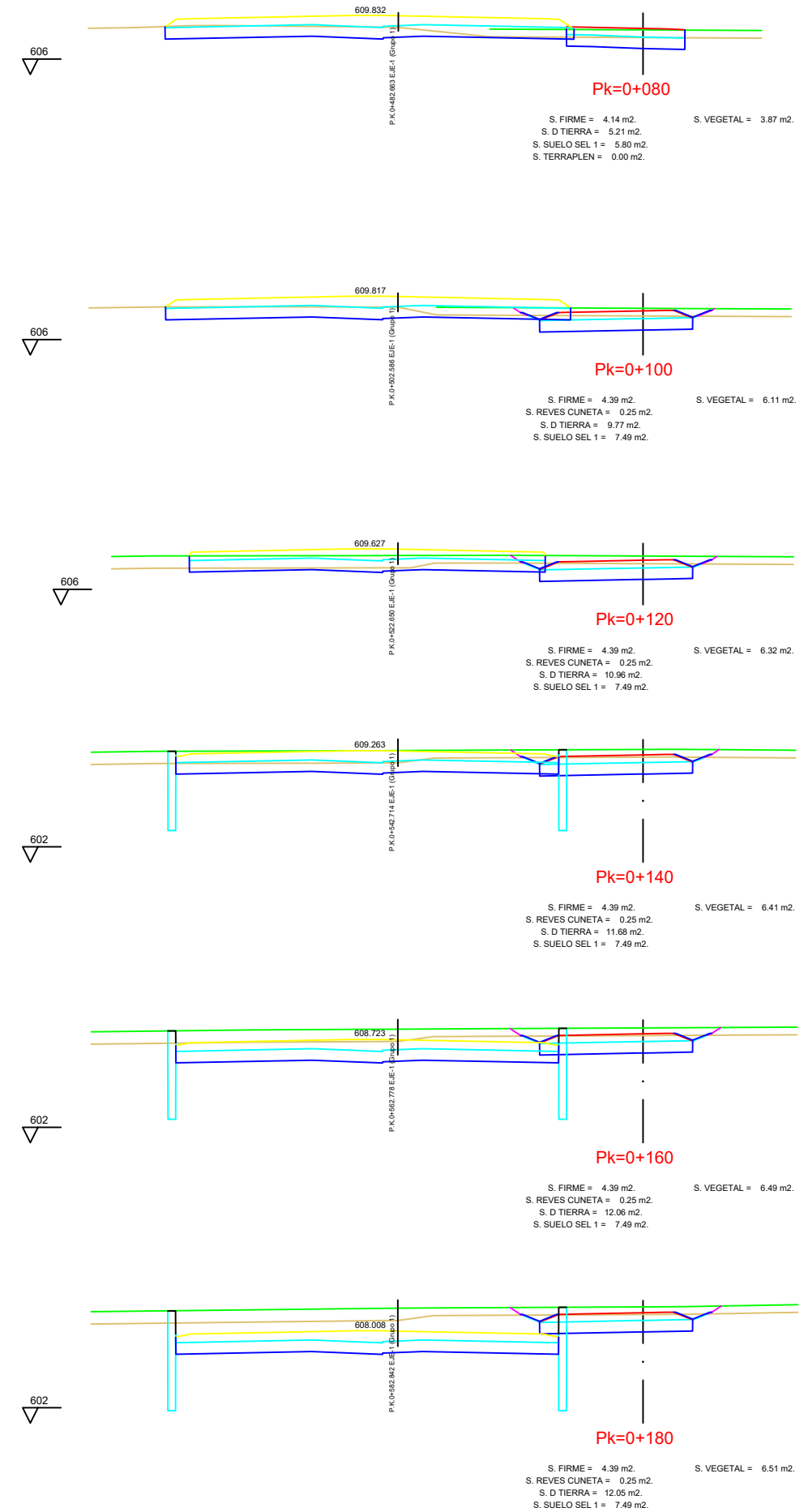
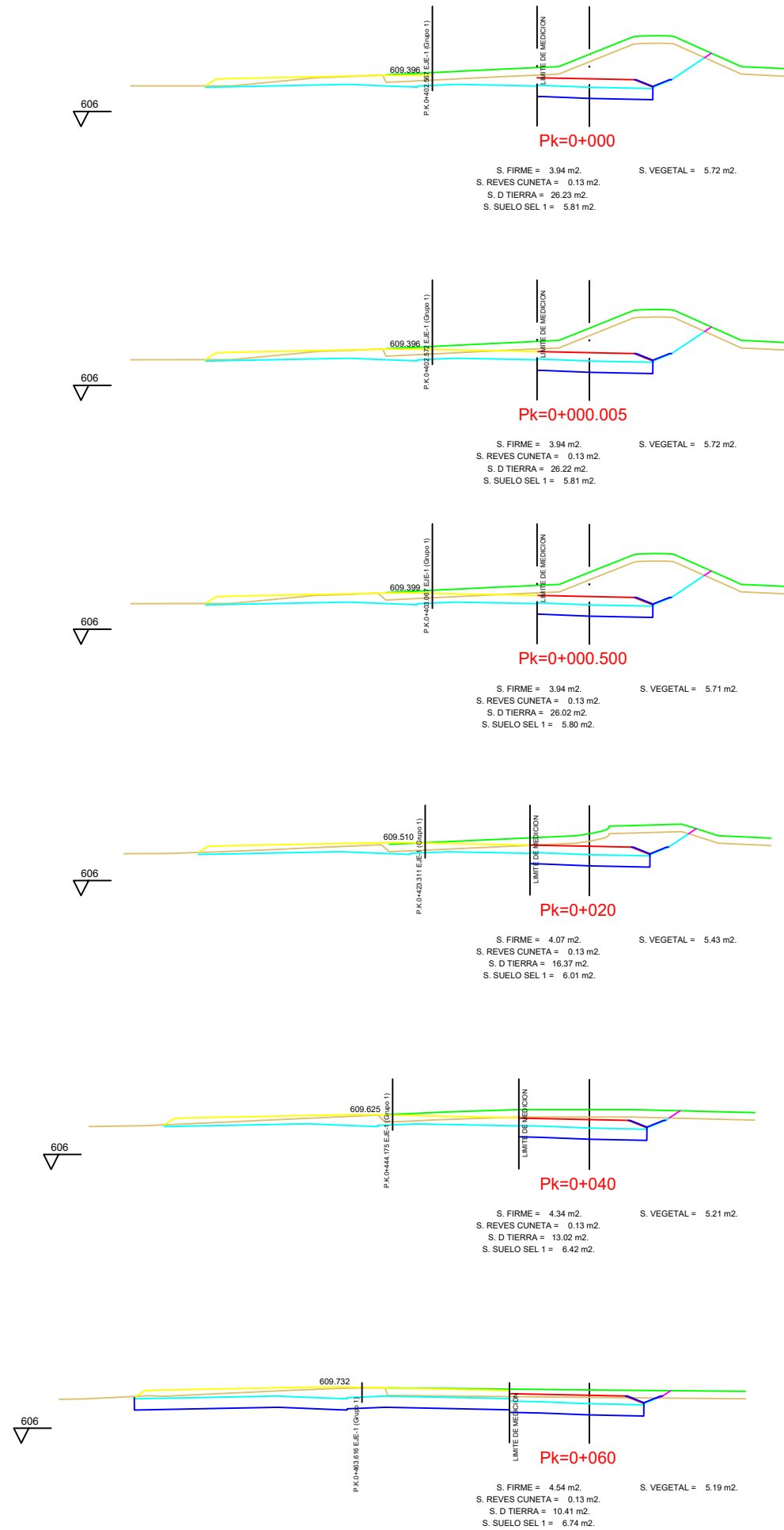
EJE 1  
PK 4+000 - 4+099,962



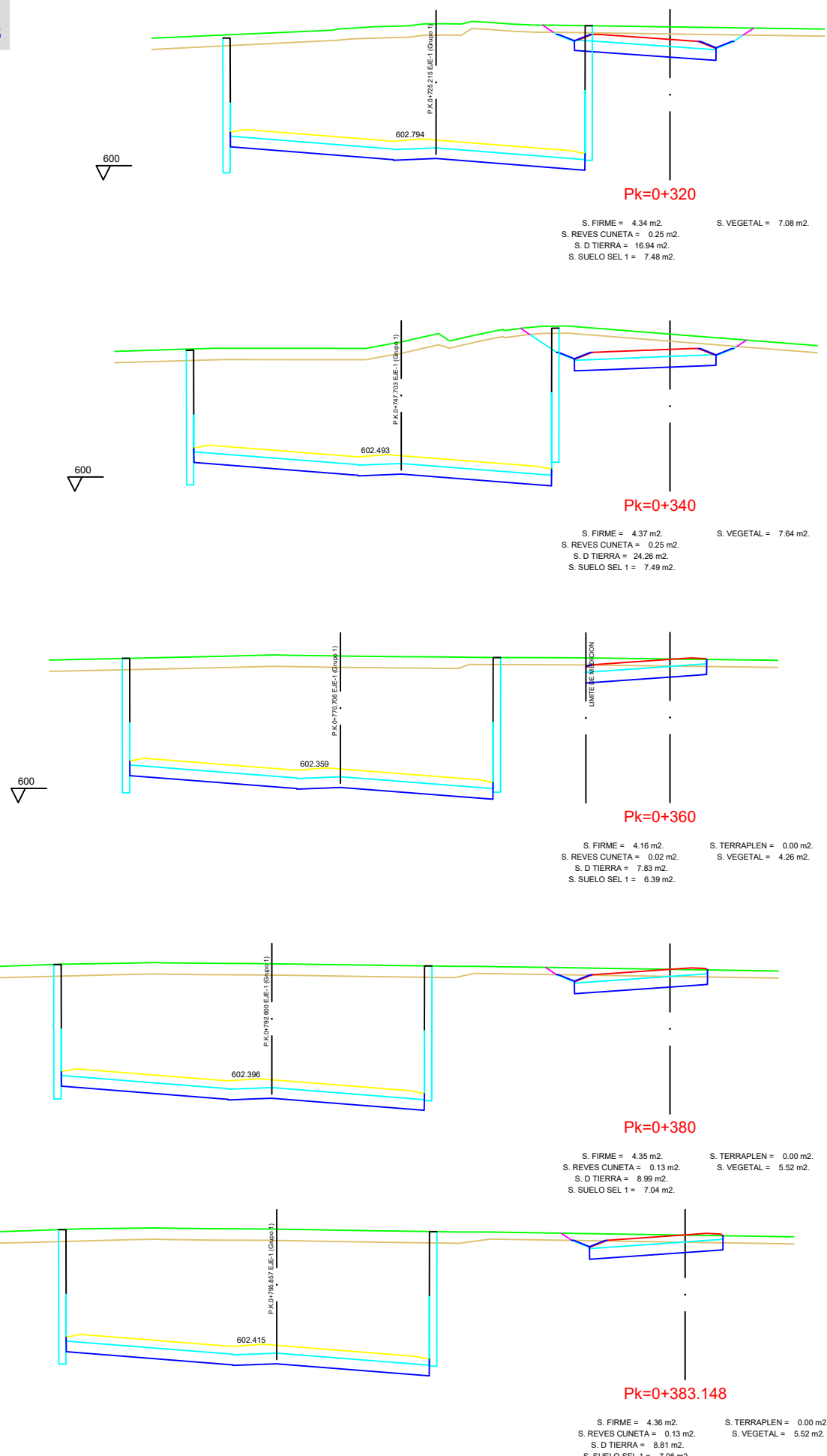
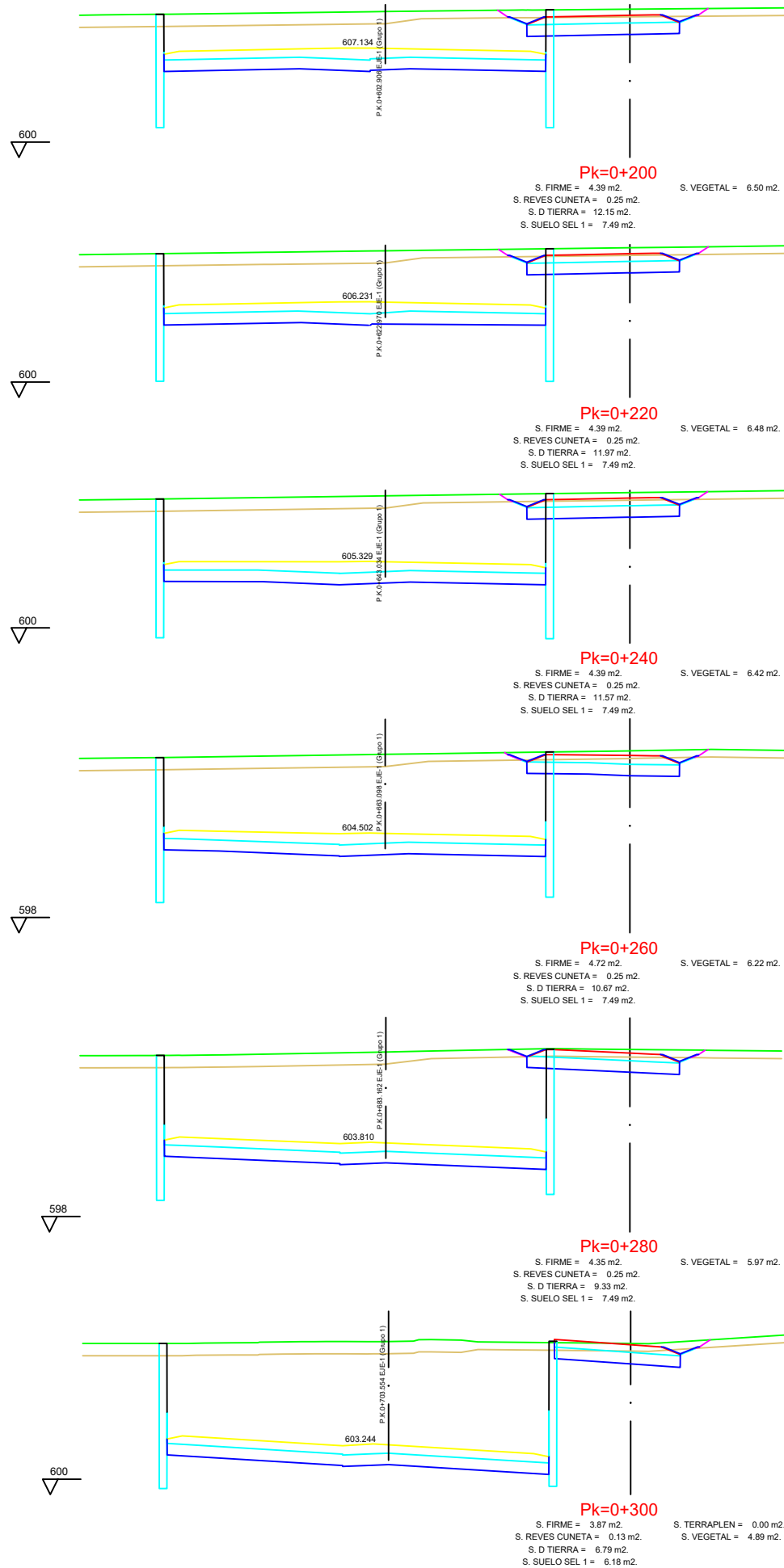
EJE 2  
PK 0+000 - 0+245,044



EJE 3  
PK 0+000 - 0+180

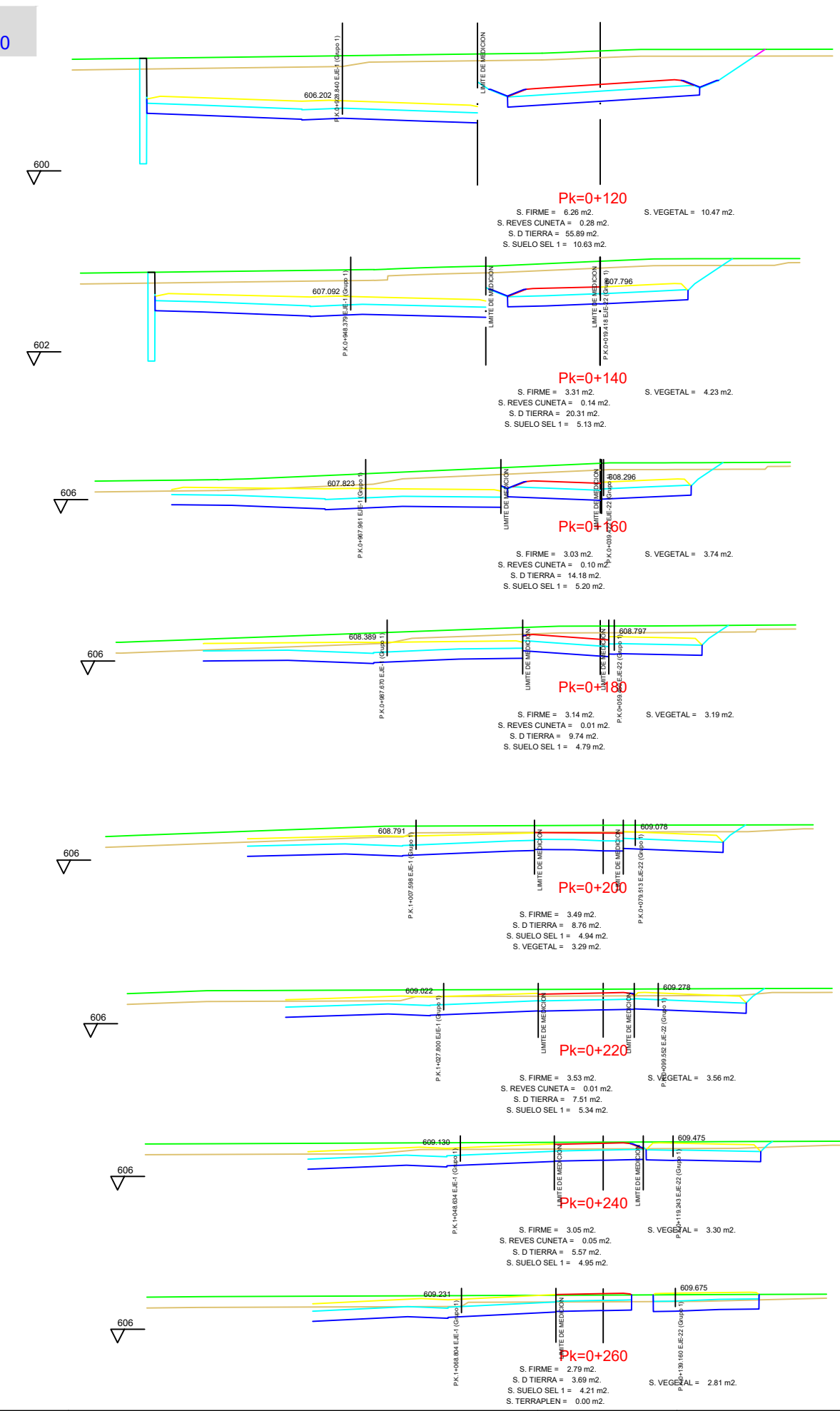
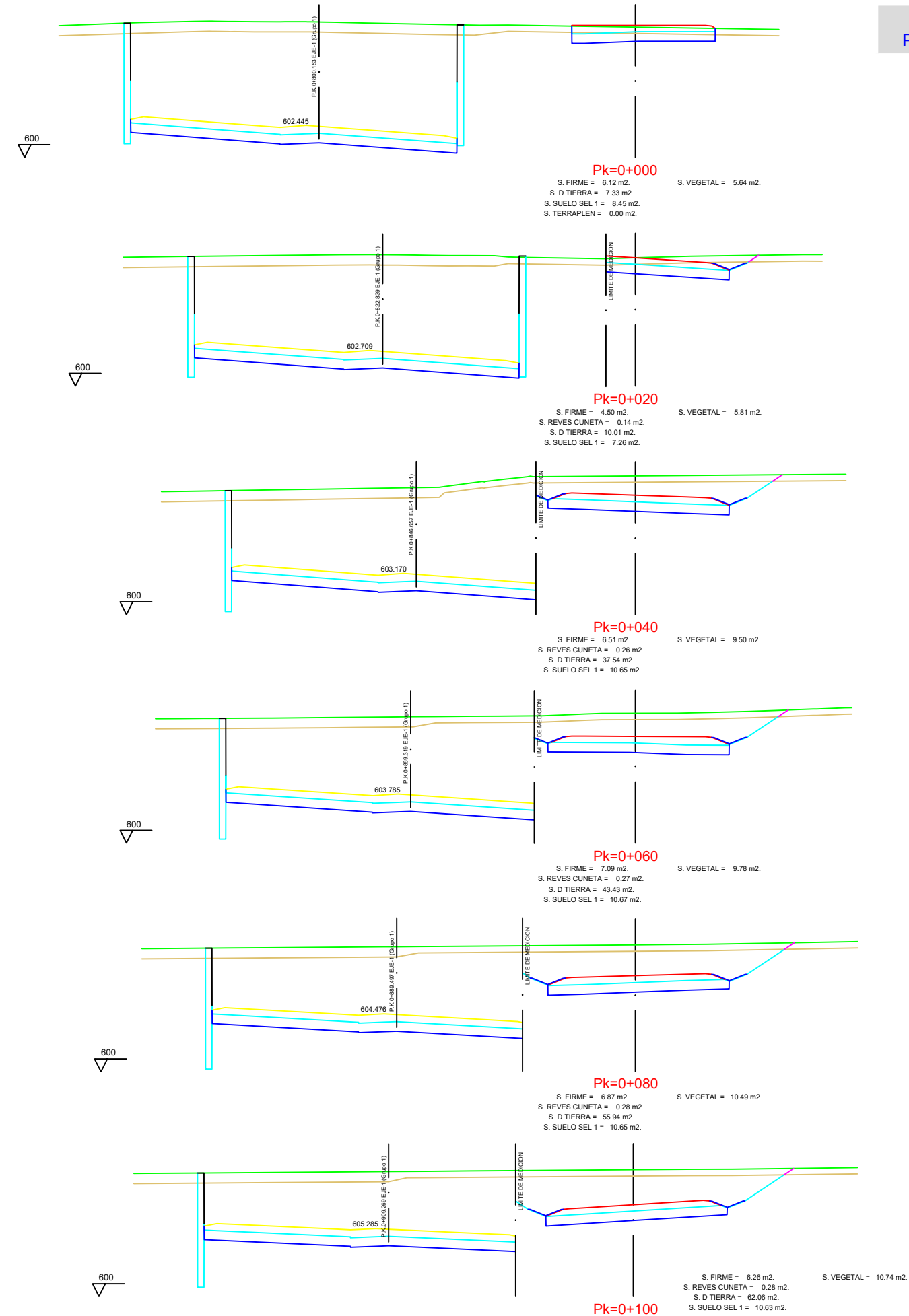


EJE 3  
PK 0+200 - 0+383,148

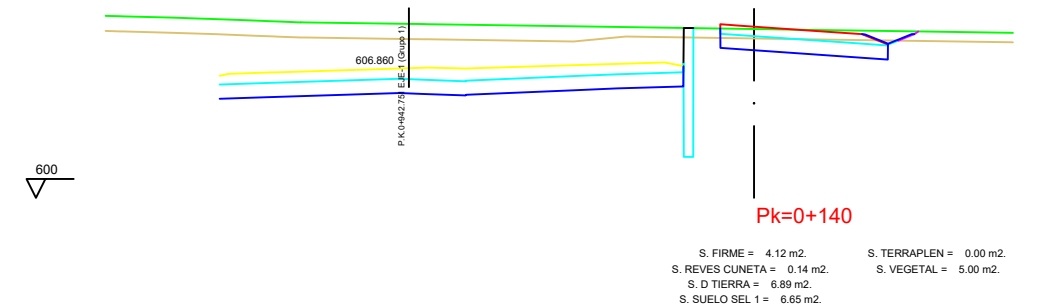
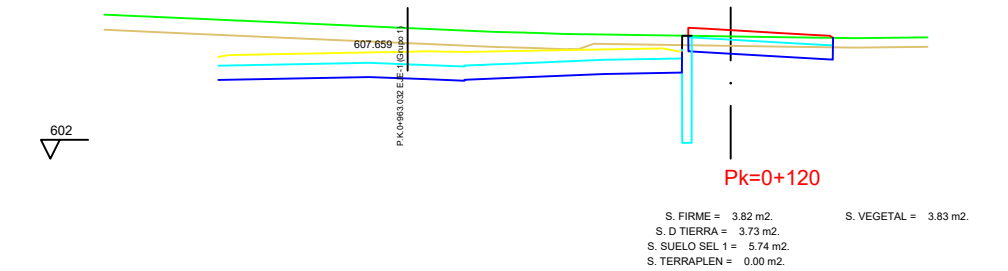
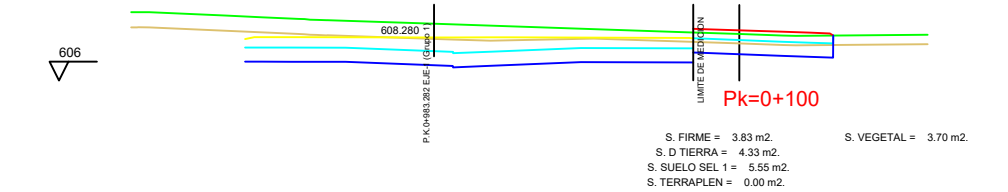
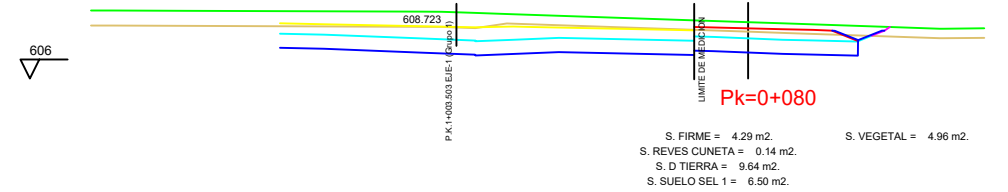
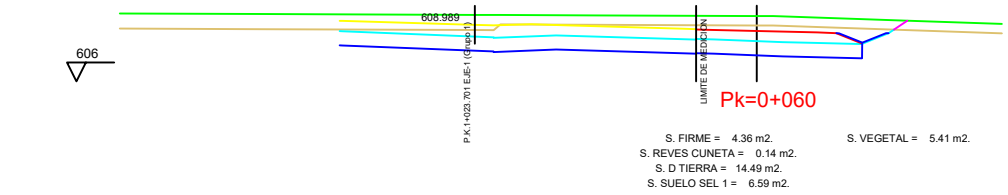
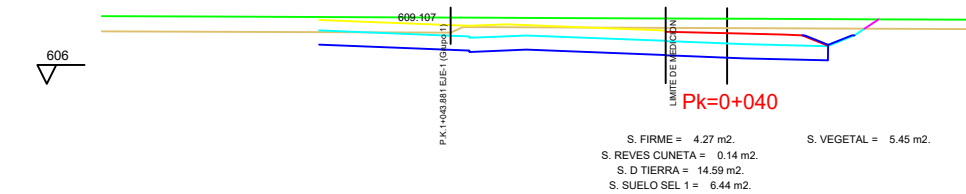
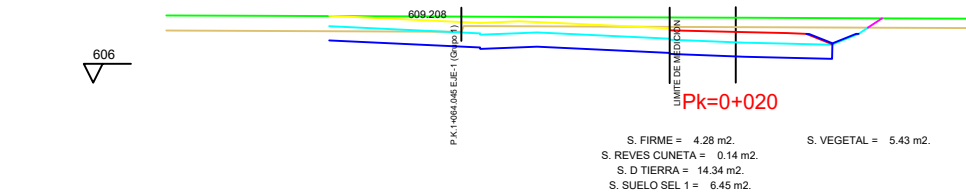
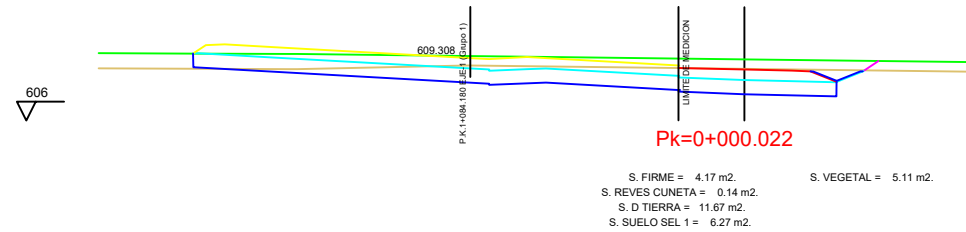
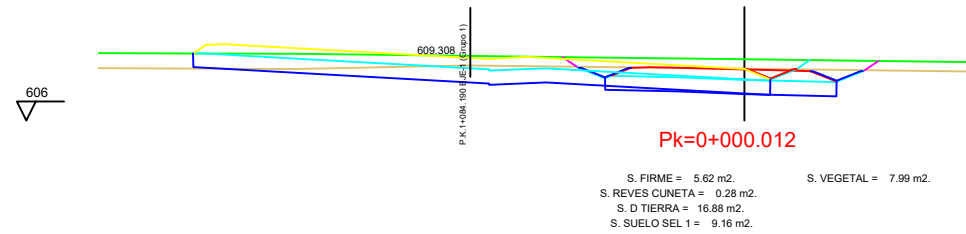
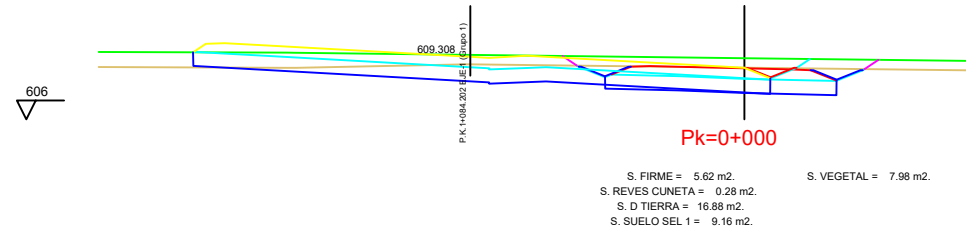




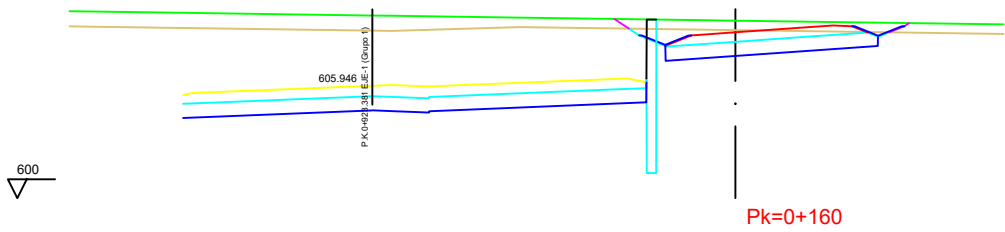
EJE 4  
PK 0+000 - 0+260



EJE 5  
PK 0+000 - 0+140



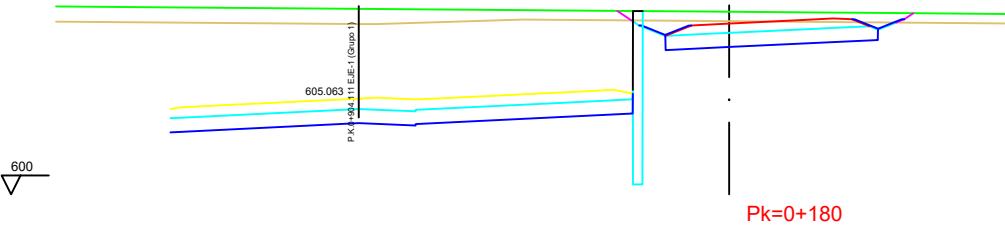
EJE 5  
PK 0+160 - 0+275,435



**Pk=0+160**

S. FIRME = 4.73 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 14.60 m2.  
S. SUELO SEL 1 = 8.36 m2.

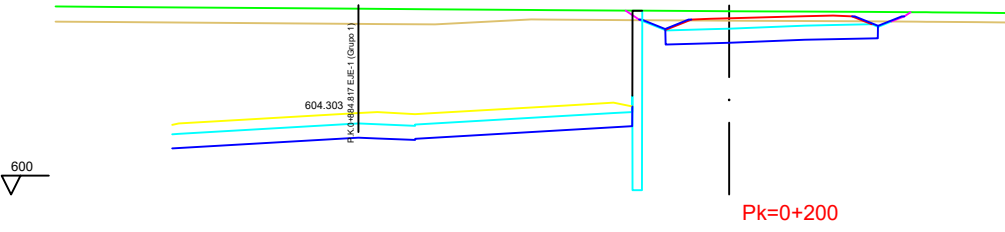
S. VEGETAL = 7.37 m2.



**Pk=0+180**

S. FIRME = 4.69 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 14.92 m2.  
S. SUELO SEL 1 = 8.39 m2.

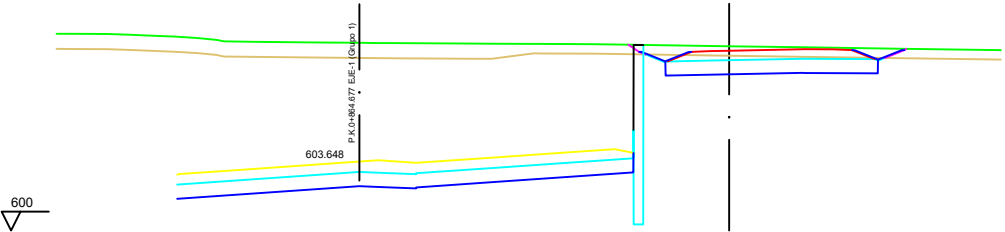
S. VEGETAL = 7.44 m2.



**Pk=0+200**

S. FIRME = 5.02 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 12.55 m2.  
S. SUELO SEL 1 = 8.41 m2.

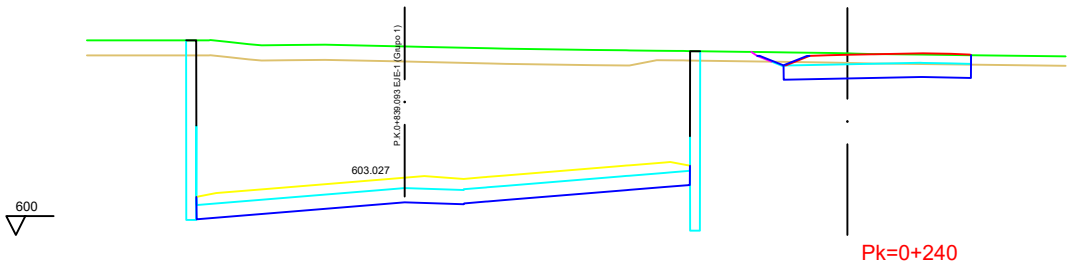
S. VEGETAL = 7.12 m2.



**Pk=0+220**

S. FIRME = 4.82 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 10.70 m2.  
S. SUELO SEL 1 = 8.42 m2.

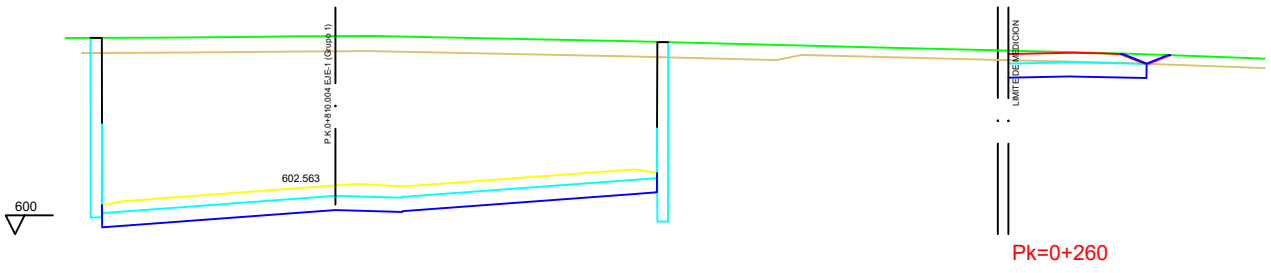
S. VEGETAL = 6.88 m2.



**Pk=0+240**

S. FIRME = 4.57 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 7.83 m2.  
S. SUELO SEL 1 = 7.43 m2.

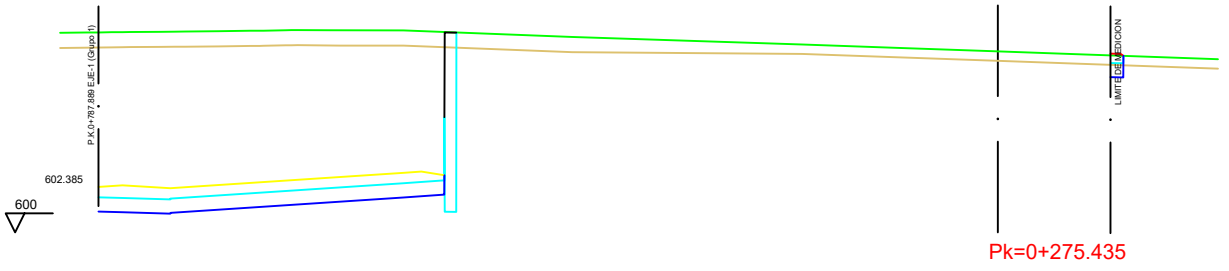
S. TERRAPLEN = 0.00 m2.  
S. VEGETAL = 5.58 m2.



**Pk=0+260**

S. FIRME = 3.30 m2.  
S. REVES CUNETAS = 0.13 m2.  
S. D TIERRA = 5.94 m2.  
S. SUELO SEL 1 = 5.49 m2.

S. VEGETAL = 4.00 m2.

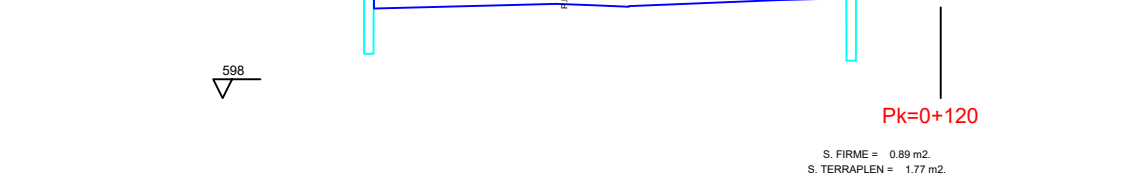
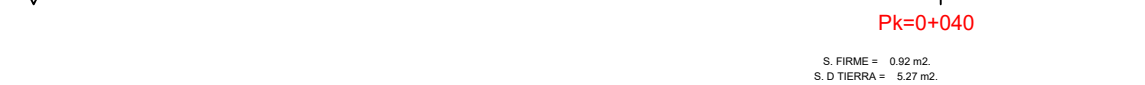
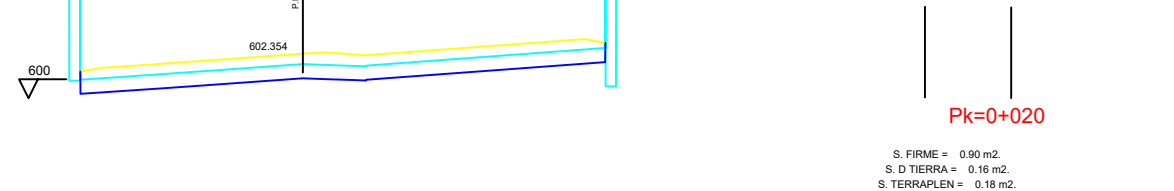


**Pk=0+275.435**

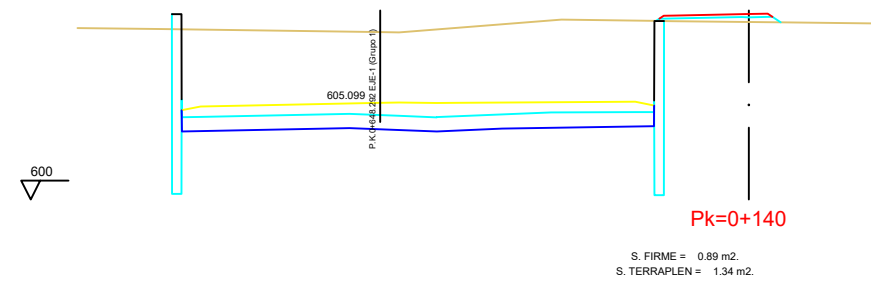
S. FIRME = 0.33 m2.  
S. D TIERRA = 0.44 m2.  
S. SUELO SEL 1 = 0.51 m2.  
S. TERRAPLEN = 0.00 m2.

S. VEGETAL = 0.35 m2.

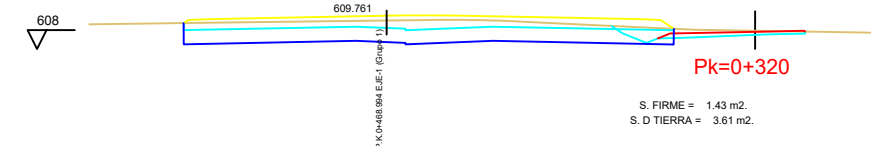
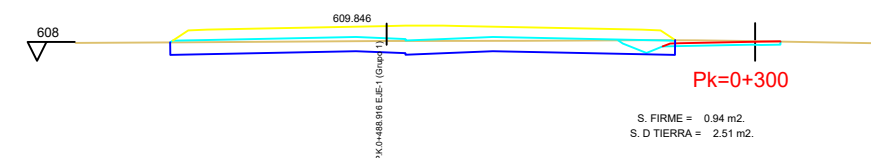
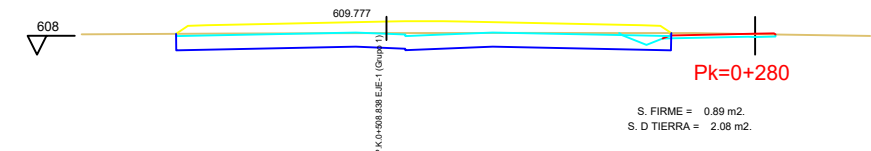
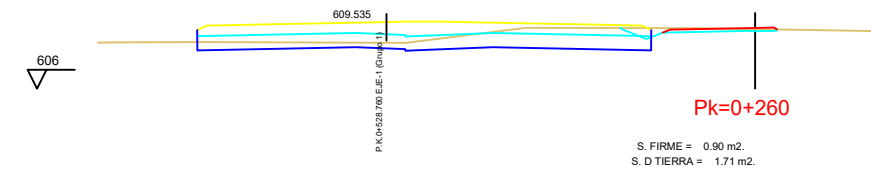
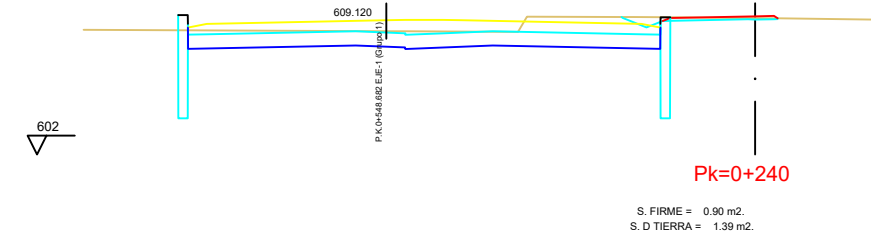
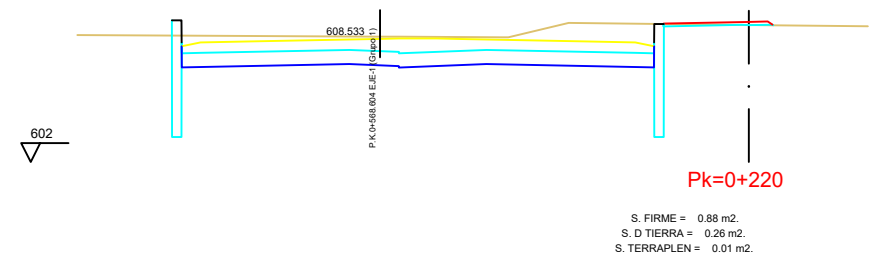
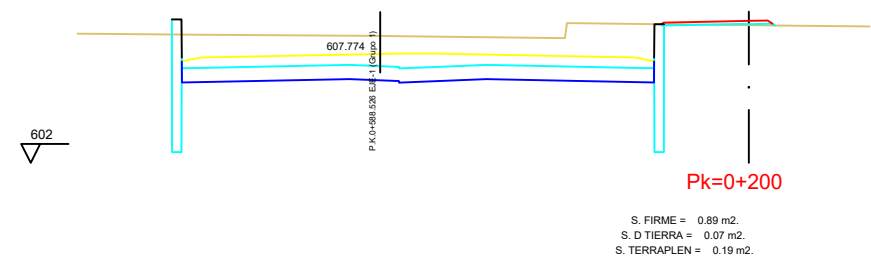
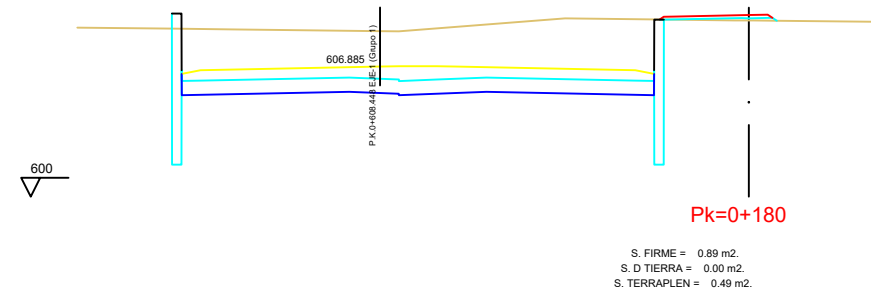
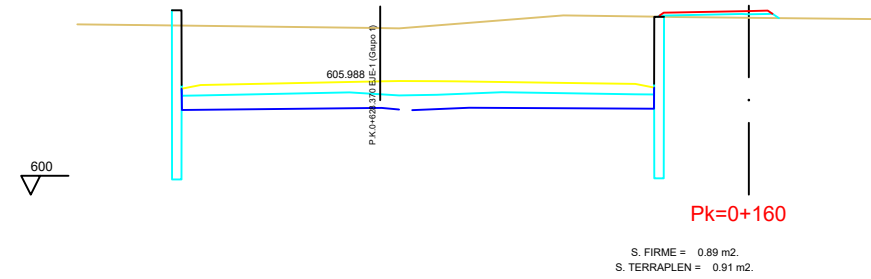
EJE 6  
PK 0+000 - 0+120

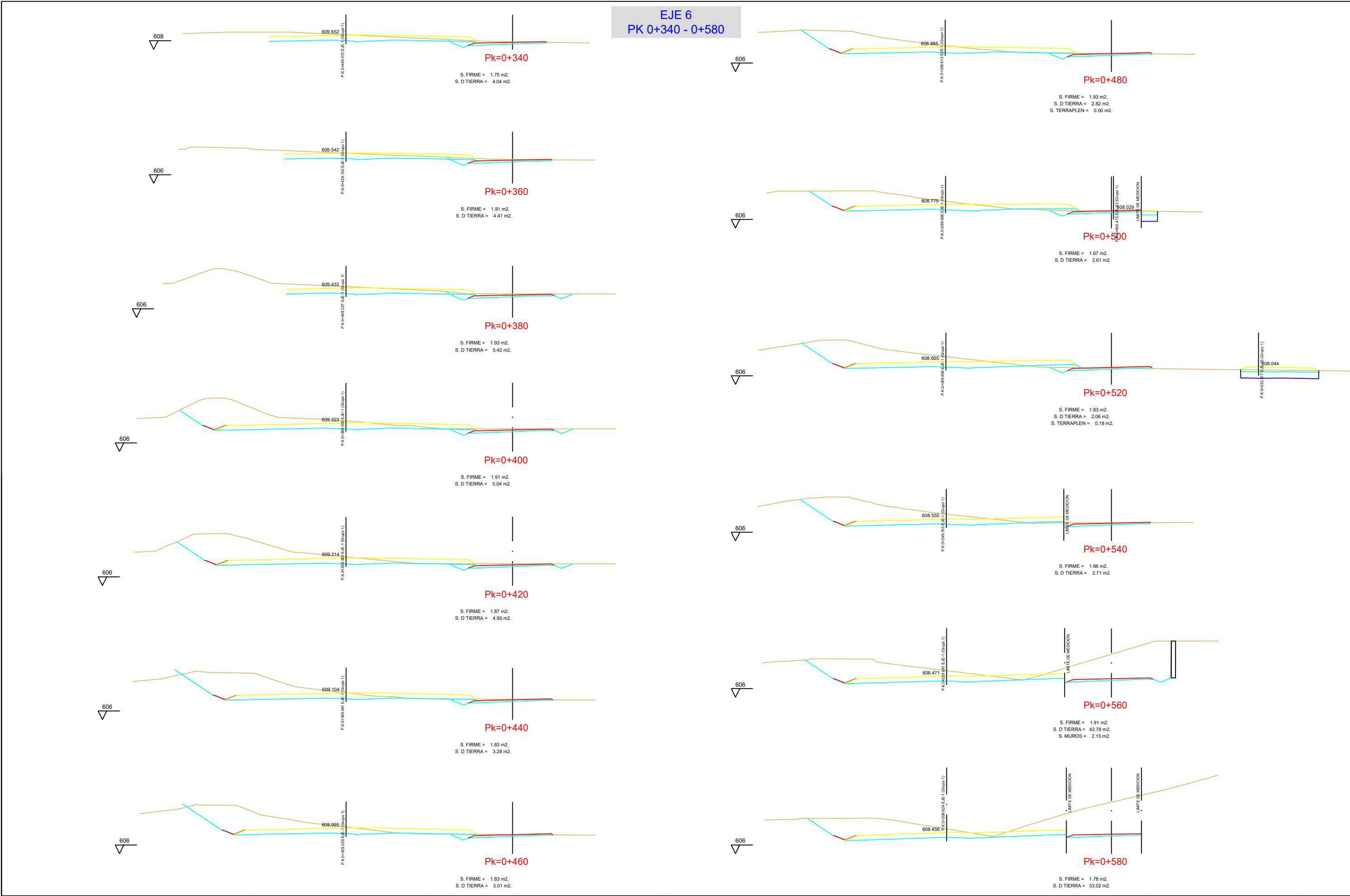




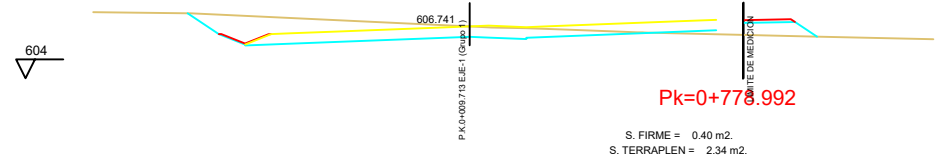
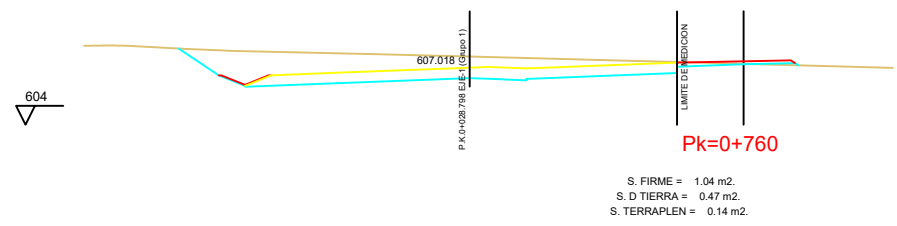
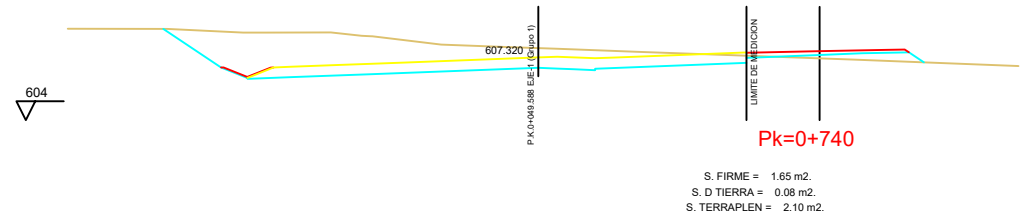
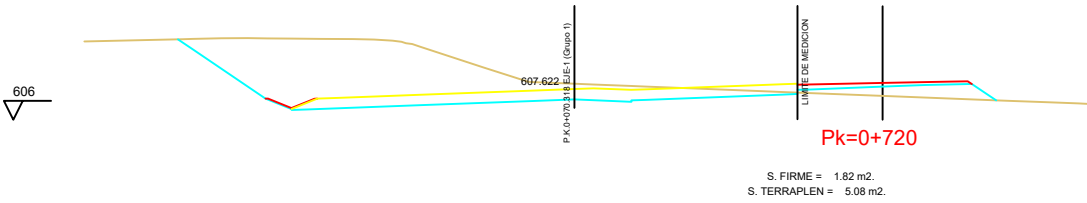
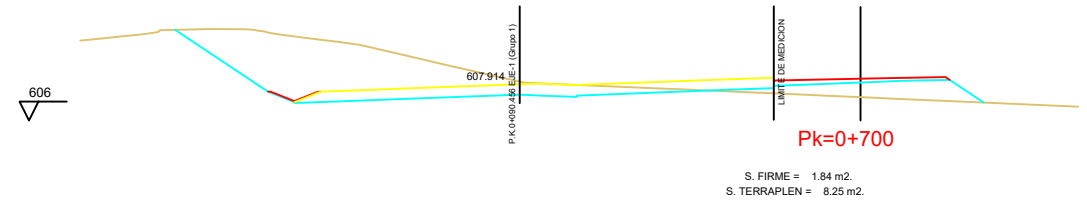
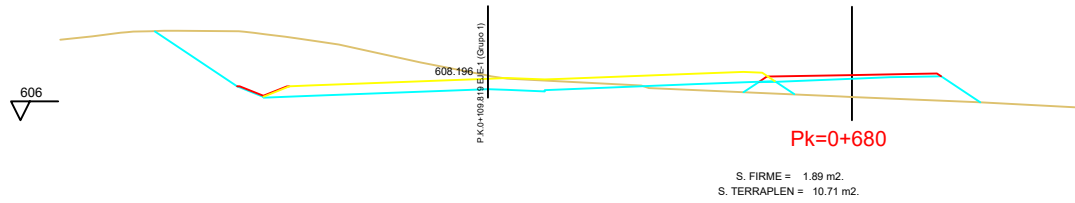
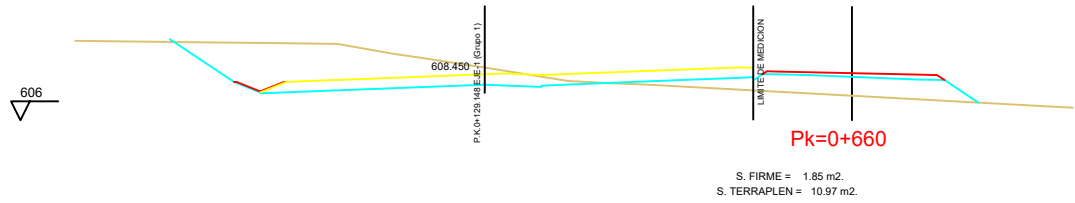
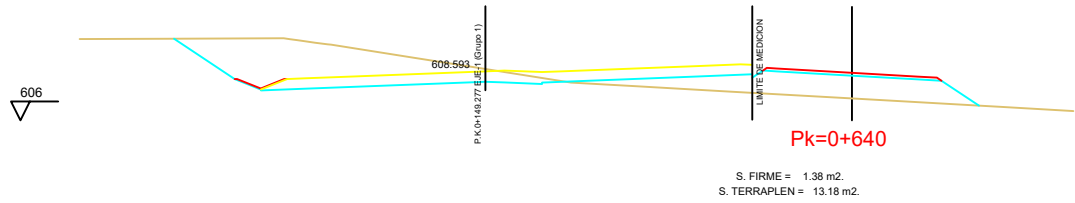
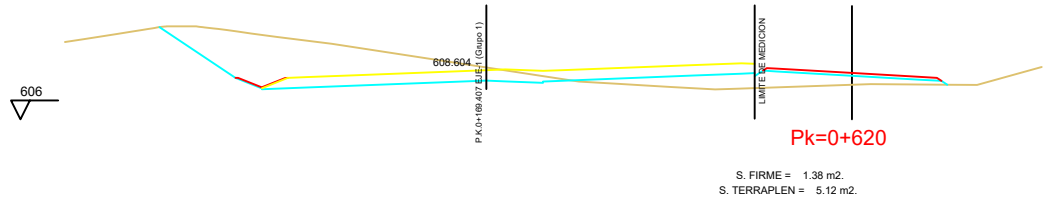
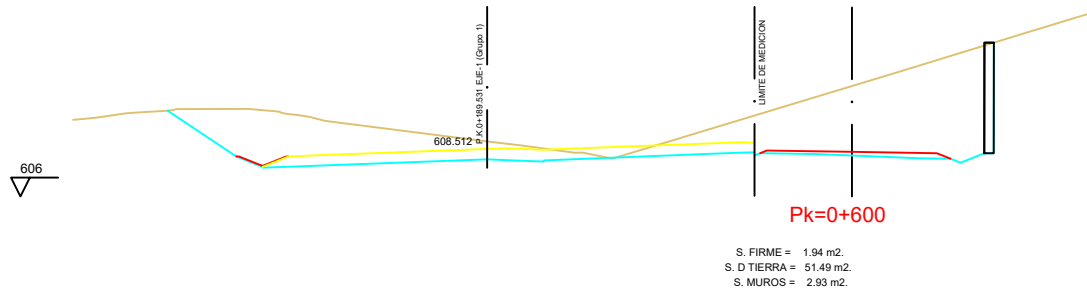


EJE 6  
PK 0+140 - 0+320

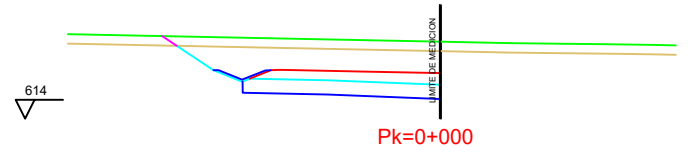




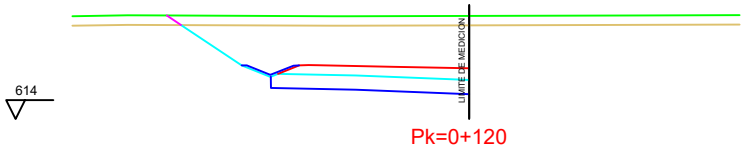
EJE 6  
PK 0+600 - 0+778.992



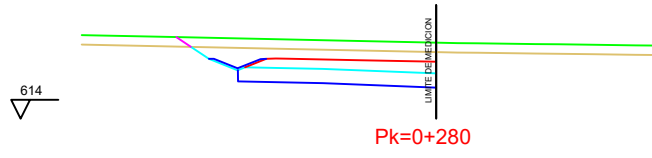
EJE 7  
PK 0+000 - 0+260



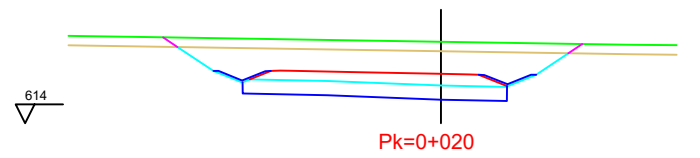
S. FIRME = 5.08 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 29.11 m2.  
S. SUELO SEL 1 = 7.80 m2.  
S. VEGETAL = 7.15 m2.



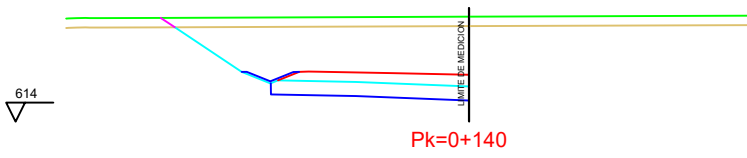
S. FIRME = 5.12 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 43.27 m2.  
S. SUELO SEL 1 = 7.84 m2.  
S. VEGETAL = 7.81 m2.



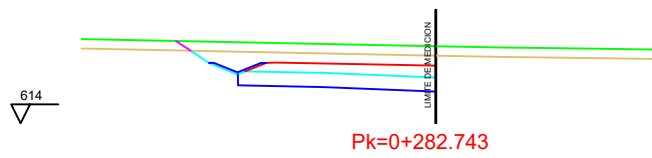
S. FIRME = 5.11 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 20.57 m2.  
S. SUELO SEL 1 = 7.83 m2.  
S. VEGETAL = 6.68 m2.



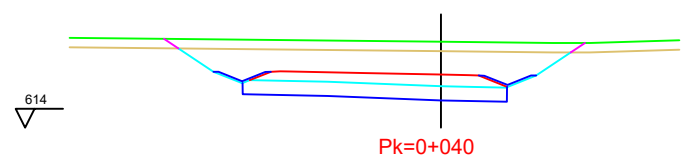
S. FIRME = 6.84 m2.  
S. REVES CUNETAS = 0.59 m2.  
S. D TIERRA = 41.59 m2.  
S. SUELO SEL 1 = 10.46 m2.  
S. VEGETAL = 10.72 m2.



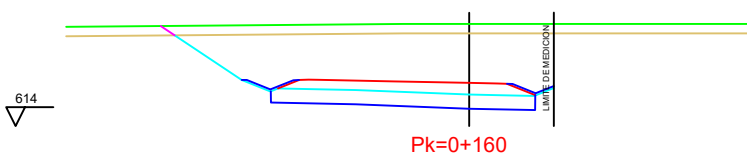
S. FIRME = 5.10 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 47.40 m2.  
S. SUELO SEL 1 = 7.83 m2.  
S. VEGETAL = 7.97 m2.



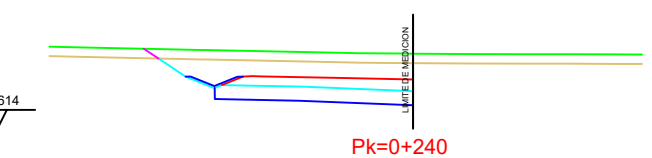
S. FIRME = 5.08 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 20.67 m2.  
S. SUELO SEL 1 = 7.80 m2.  
S. VEGETAL = 6.67 m2.



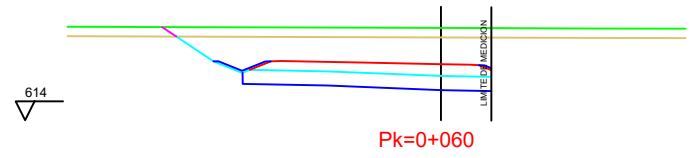
S. FIRME = 6.84 m2.  
S. REVES CUNETAS = 0.59 m2.  
S. D TIERRA = 42.08 m2.  
S. SUELO SEL 1 = 10.46 m2.  
S. VEGETAL = 10.76 m2.



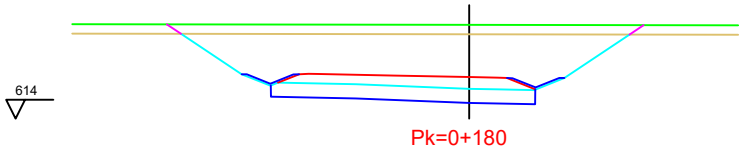
S. FIRME = 6.84 m2.  
S. REVES CUNETAS = 0.55 m2.  
S. D TIERRA = 65.15 m2.  
S. SUELO SEL 1 = 10.46 m2.  
S. VEGETAL = 10.22 m2.



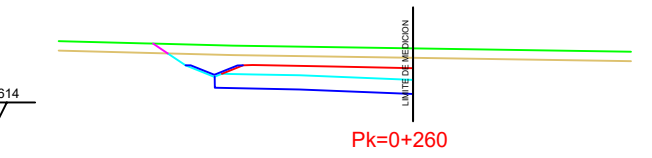
S. FIRME = 5.11 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 24.77 m2.  
S. SUELO SEL 1 = 7.84 m2.  
S. VEGETAL = 6.93 m2.



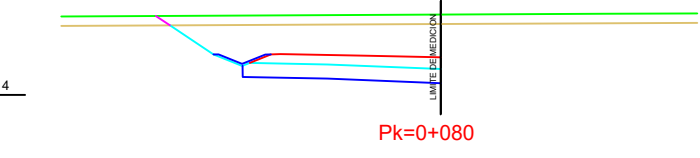
S. FIRME = 6.68 m2.  
S. REVES CUNETAS = 0.35 m2.  
S. D TIERRA = 38.68 m2.  
S. SUELO SEL 1 = 9.84 m2.  
S. VEGETAL = 8.53 m2.



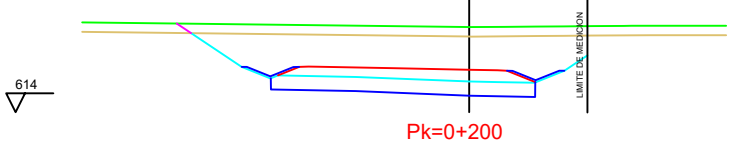
S. FIRME = 6.84 m2.  
S. REVES CUNETAS = 0.59 m2.  
S. D TIERRA = 64.21 m2.  
S. SUELO SEL 1 = 10.46 m2.  
S. VEGETAL = 12.24 m2.



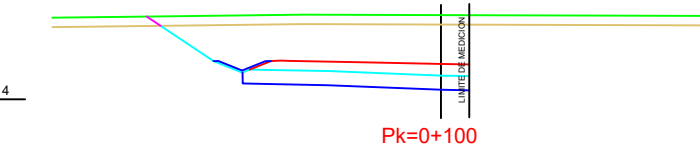
S. FIRME = 5.11 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 20.57 m2.  
S. SUELO SEL 1 = 7.84 m2.  
S. VEGETAL = 6.68 m2.



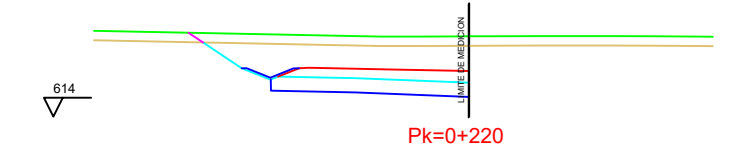
S. FIRME = 5.11 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 35.16 m2.  
S. SUELO SEL 1 = 7.83 m2.  
S. VEGETAL = 7.35 m2.



S. FIRME = 6.84 m2.  
S. REVES CUNETAS = 0.59 m2.  
S. D TIERRA = 53.14 m2.  
S. SUELO SEL 1 = 10.46 m2.  
S. VEGETAL = 10.68 m2.



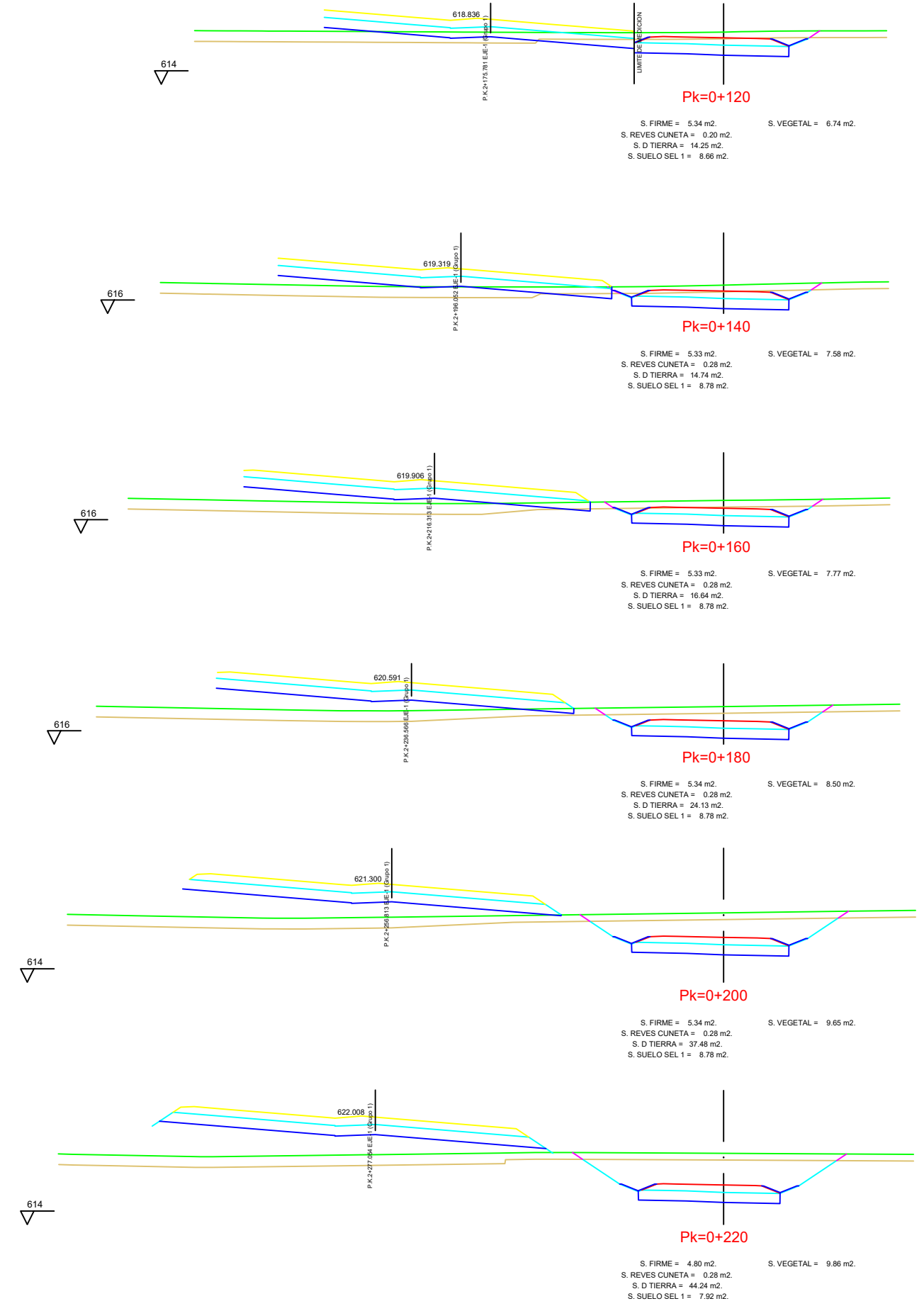
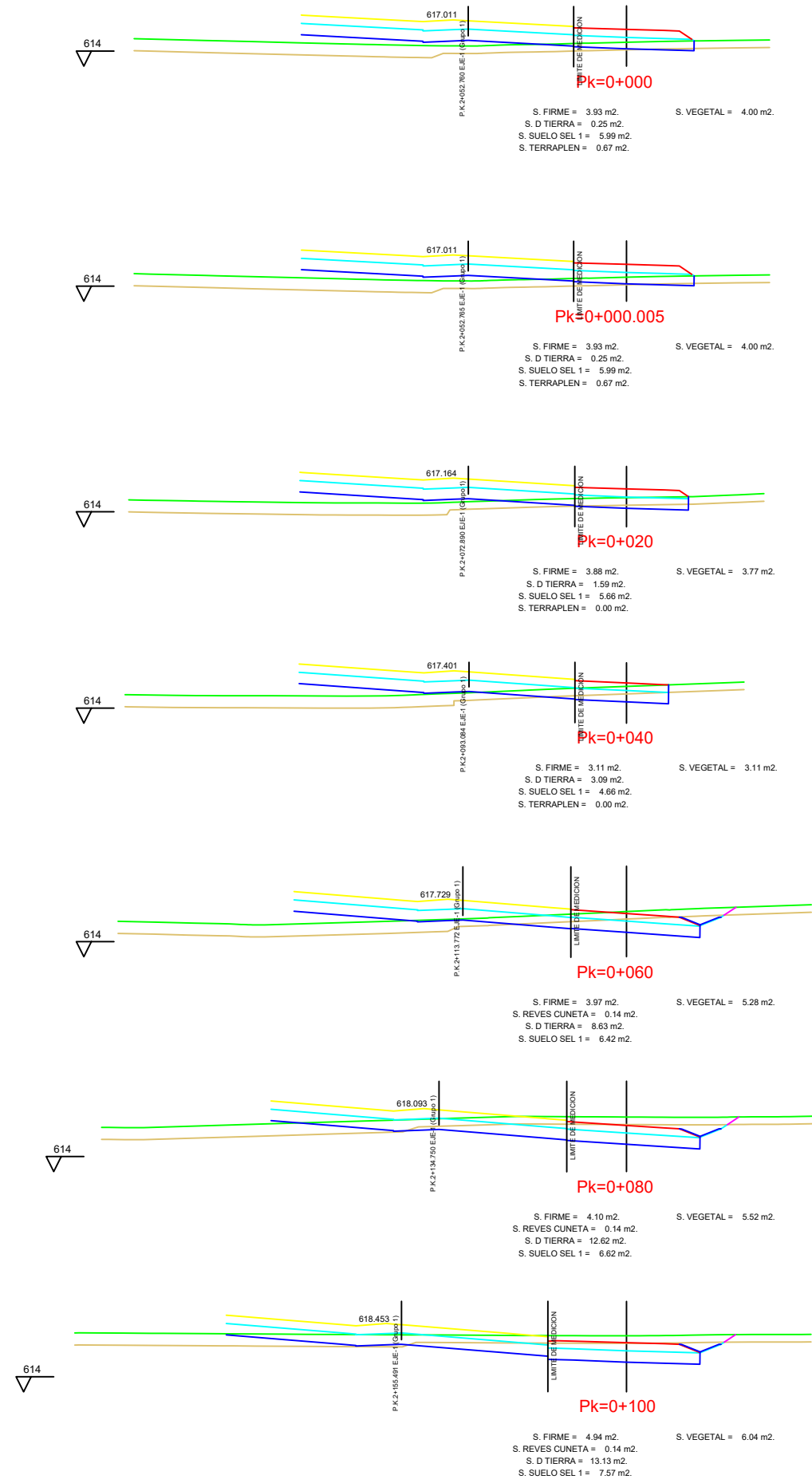
S. FIRME = 6.05 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 45.55 m2.  
S. SUELO SEL 1 = 8.97 m2.  
S. VEGETAL = 8.35 m2.

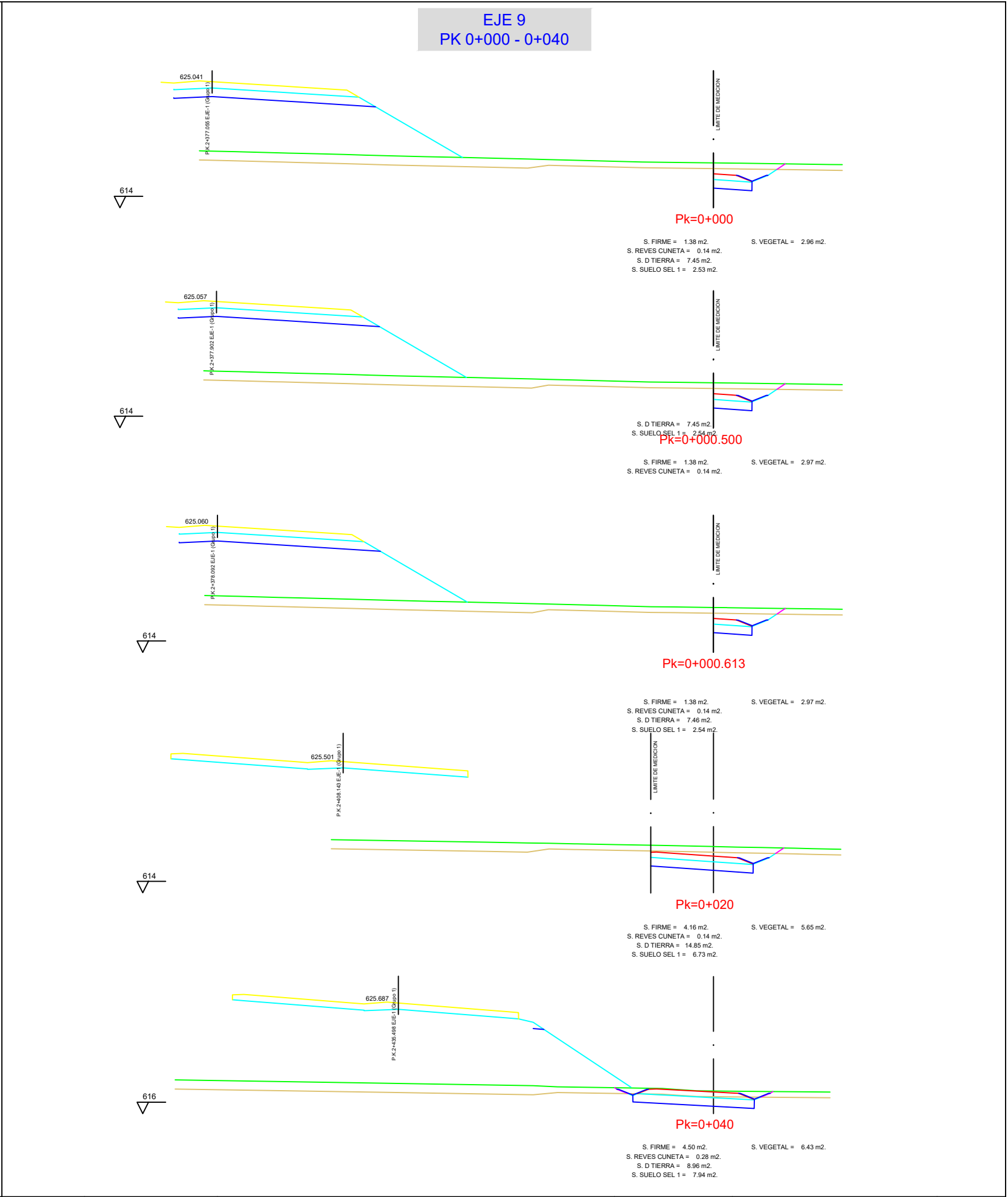
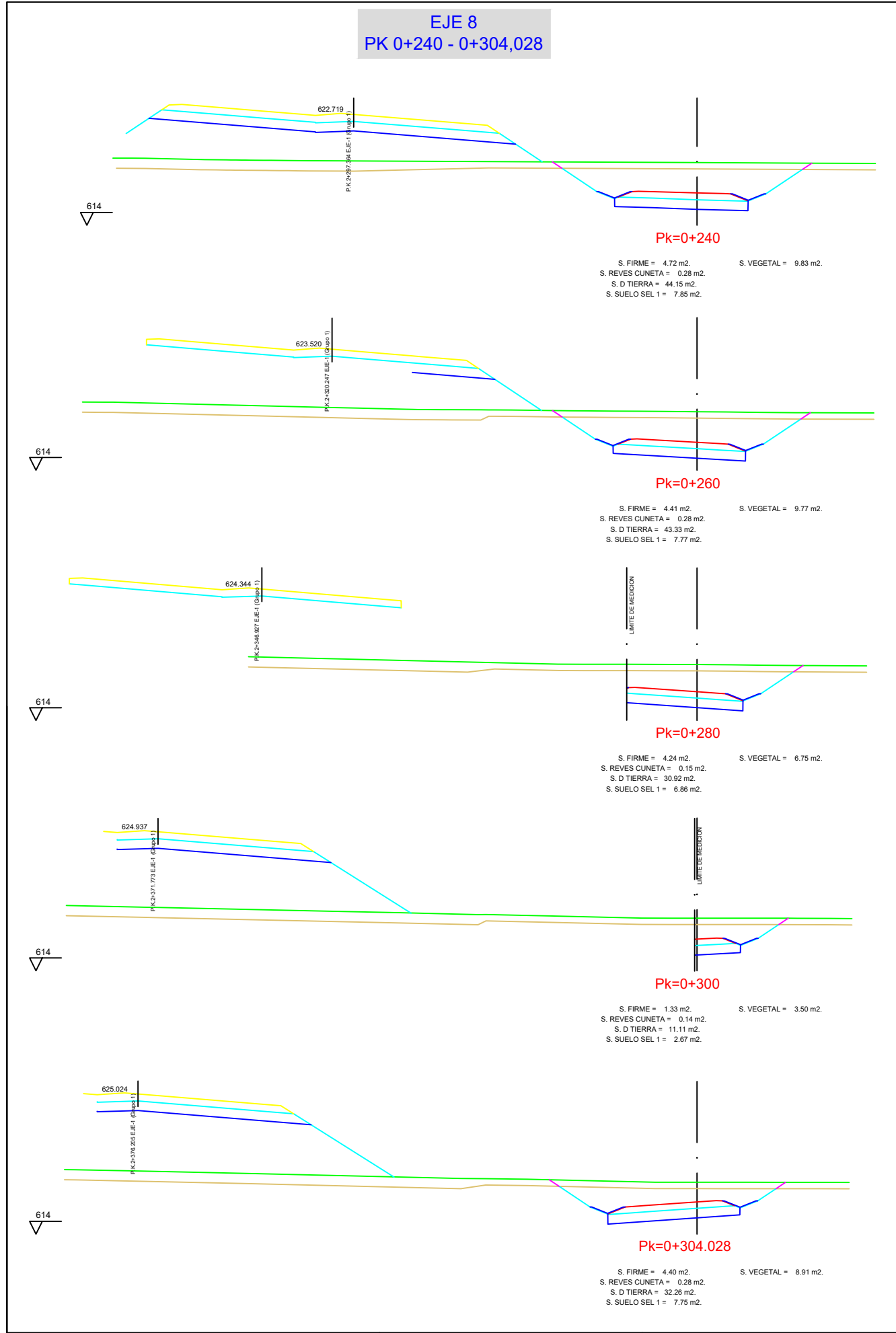


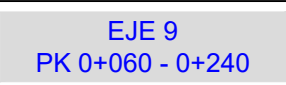
S. FIRME = 5.10 m2.  
S. REVES CUNETAS = 0.30 m2.  
S. D TIERRA = 30.40 m2.  
S. SUELO SEL 1 = 7.82 m2.  
S. VEGETAL = 7.22 m2.



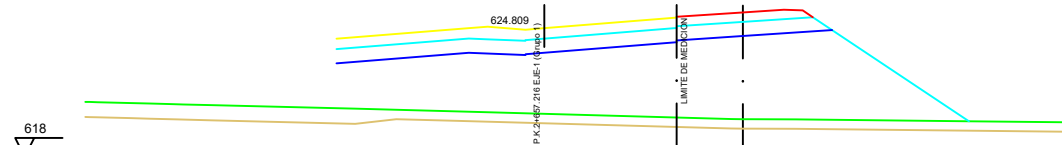
EJE 8  
PK 0+000 - 0+220





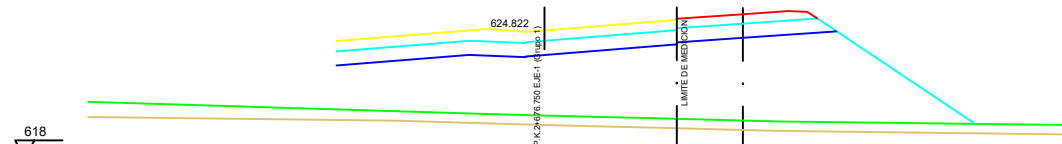


EJE 9  
PK 0+260 - 0+288,935



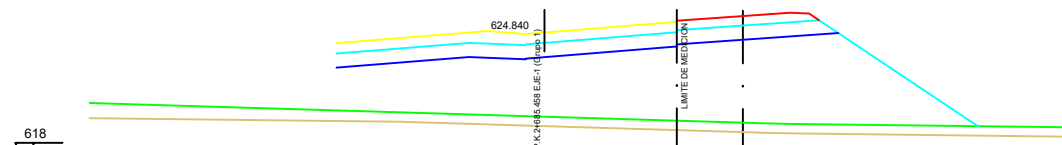
Pk=0+260

S. FIRME = 3.39 m2.  
S. SUELO SEL 1 = 5.79 m2.  
S. TERRAPLEN = 61.36 m2.  
S. VEGETAL = 7.73 m2.



Pk=0+280

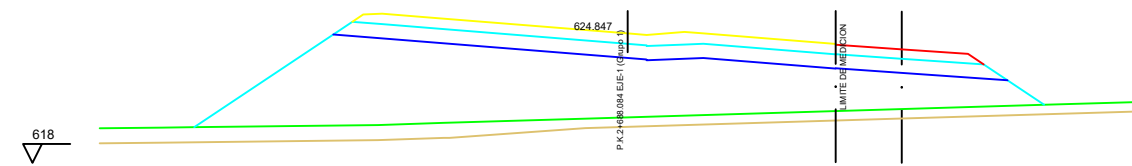
S. FIRME = 3.50 m2.  
S. SUELO SEL 1 = 5.96 m2.  
S. TERRAPLEN = 63.05 m2.  
S. VEGETAL = 7.90 m2.



Pk=0+288.935

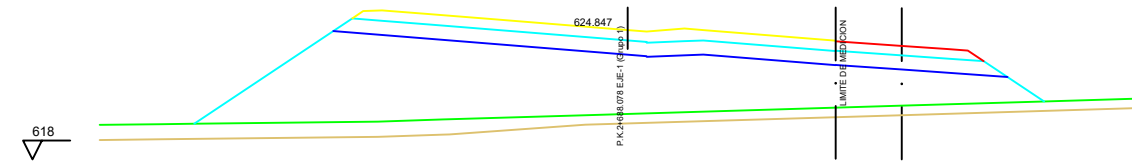
S. FIRME = 3.55 m2.  
S. SUELO SEL 1 = 6.03 m2.  
S. TERRAPLEN = 63.92 m2.  
S. VEGETAL = 7.97 m2.

EJE 10  
PK 0+000 - 0+060



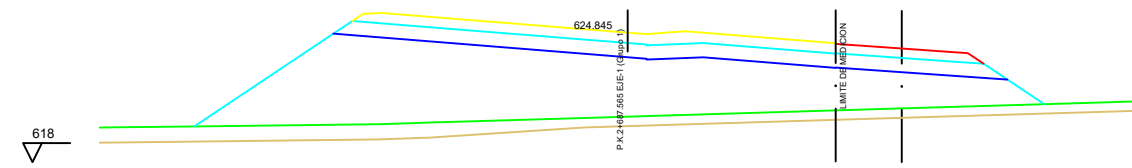
Pk=0+000

S. FIRME = 3.71 m2.  
S. SUELO SEL 1 = 6.35 m2.  
S. TERRAPLEN = 23.28 m2.  
S. VEGETAL = 5.52 m2.



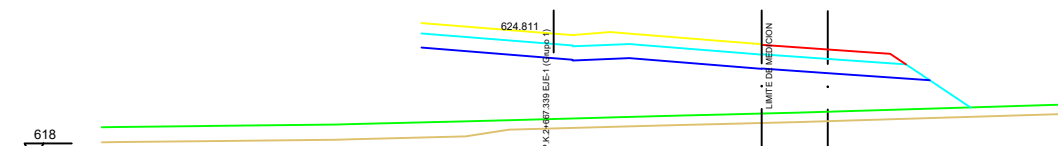
Pk=0+000.005

S. FIRME = 3.71 m2.  
S. SUELO SEL 1 = 6.35 m2.  
S. TERRAPLEN = 23.29 m2.  
S. VEGETAL = 5.52 m2.



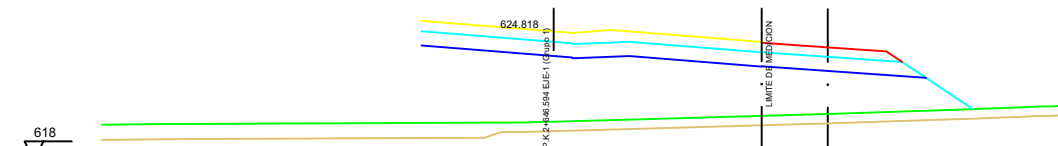
Pk=0+000.500

S. FIRME = 3.71 m2.  
S. SUELO SEL 1 = 6.35 m2.  
S. TERRAPLEN = 23.31 m2.  
S. VEGETAL = 5.52 m2.



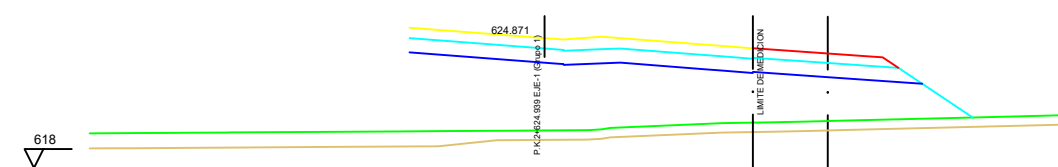
Pk=0+020

S. FIRME = 3.61 m2.  
S. SUELO SEL 1 = 6.20 m2.  
S. TERRAPLEN = 24.47 m2.  
S. VEGETAL = 5.52 m2.



Pk=0+040

S. FIRME = 3.51 m2.  
S. SUELO SEL 1 = 6.05 m2.  
S. TERRAPLEN = 26.74 m2.  
S. VEGETAL = 5.59 m2.



Pk=0+060

S. FIRME = 3.64 m2.  
S. SUELO SEL 1 = 6.25 m2.  
S. TERRAPLEN = 28.62 m2.  
S. VEGETAL = 5.82 m2.

ORGANISMO



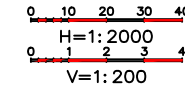
CONSULTOR



AUTOR DEL ESTUDIO



ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

06-02.04.dwg

DESIGNACIÓN

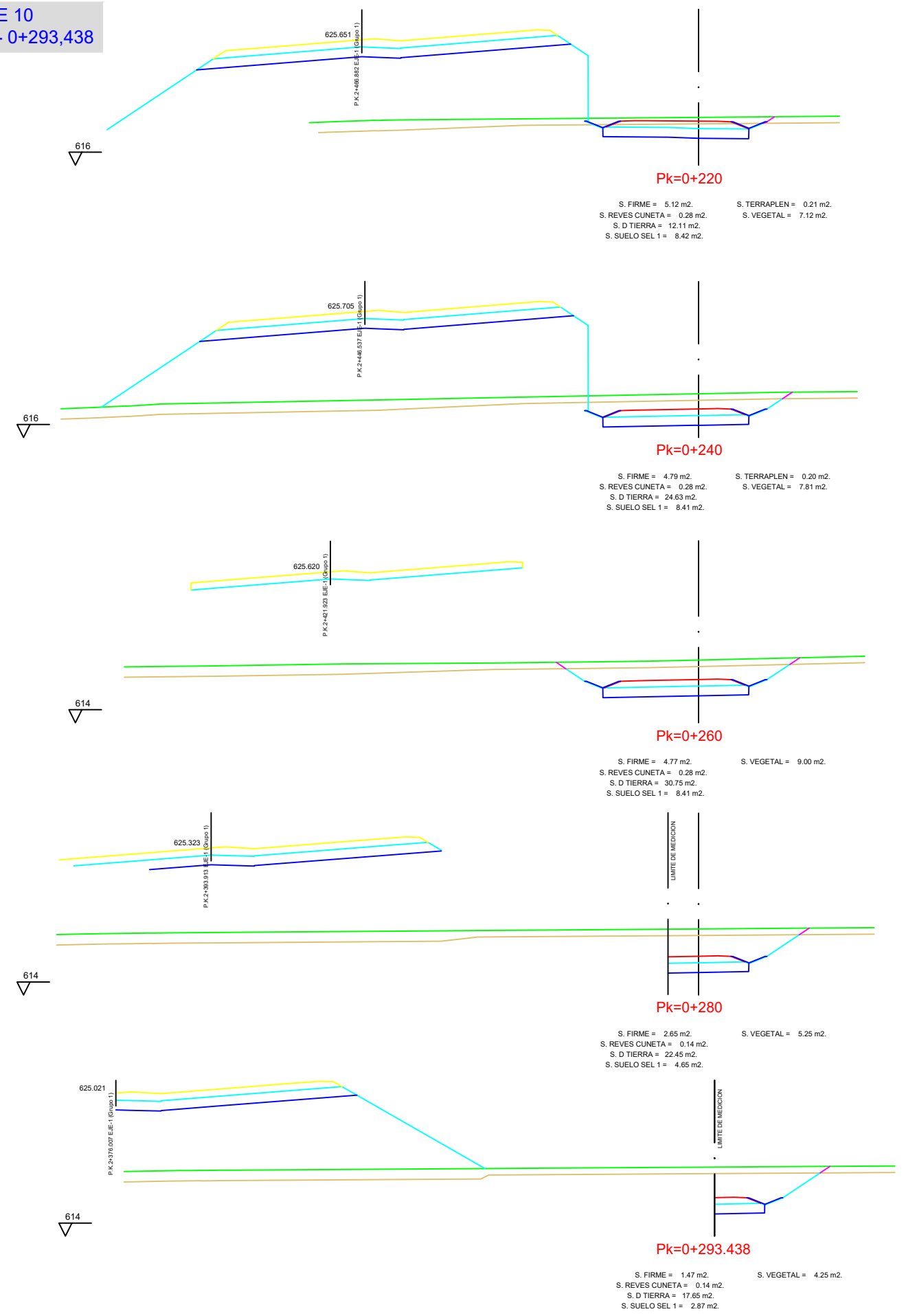
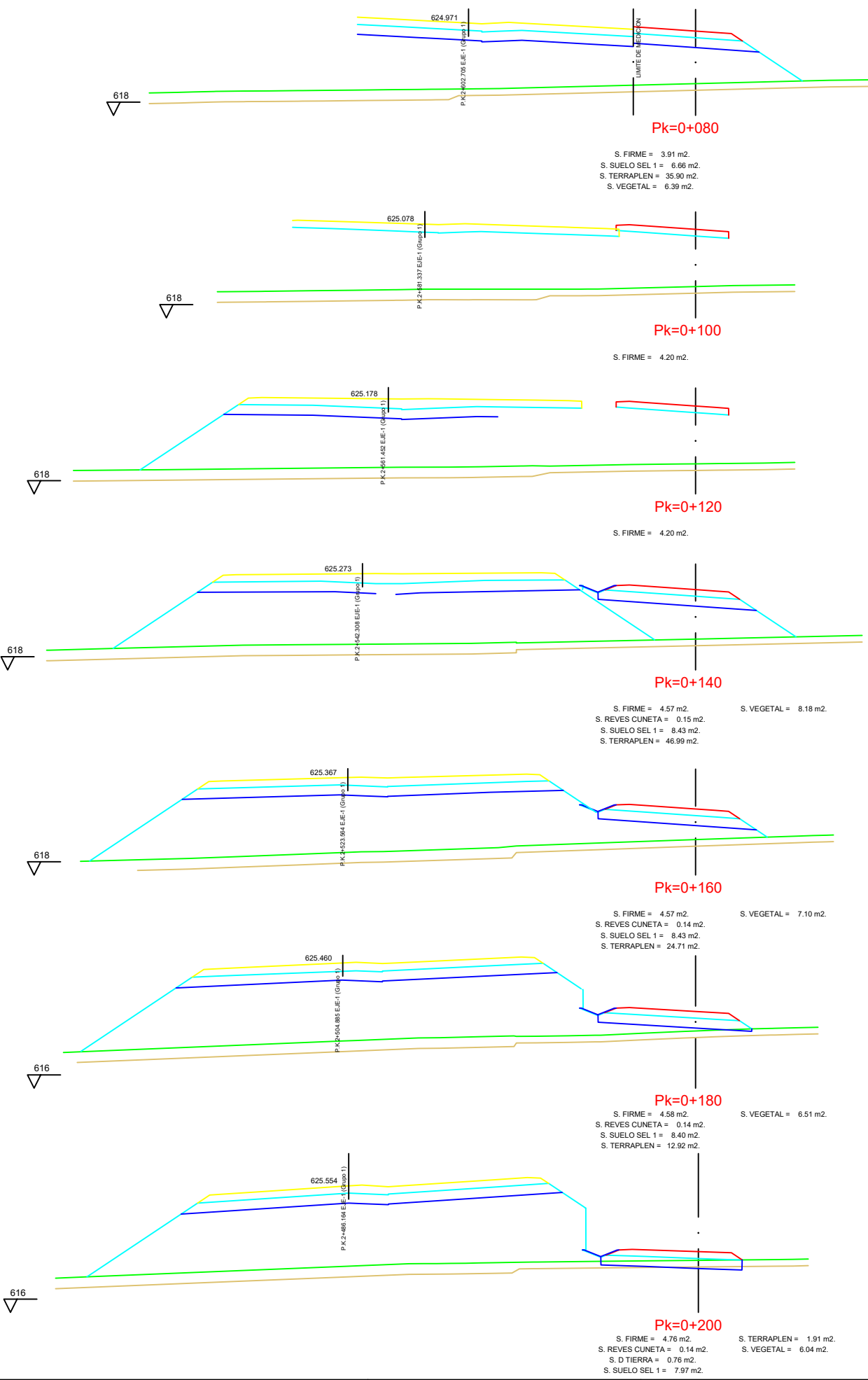
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

06-02.04

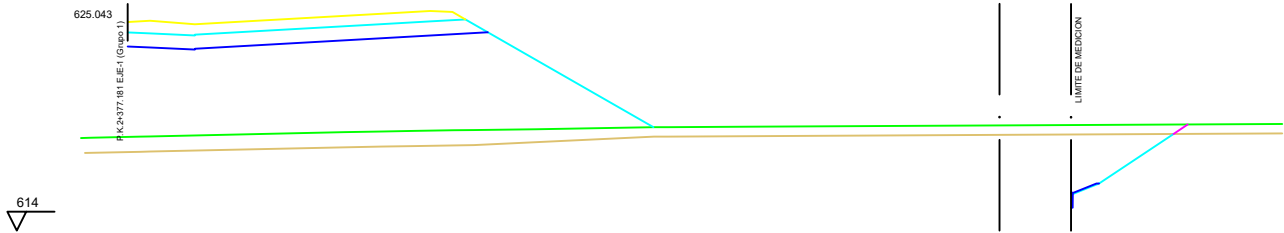
HOJA 34 DE 50

EJE 10  
PK 0+080 - 0+293,438



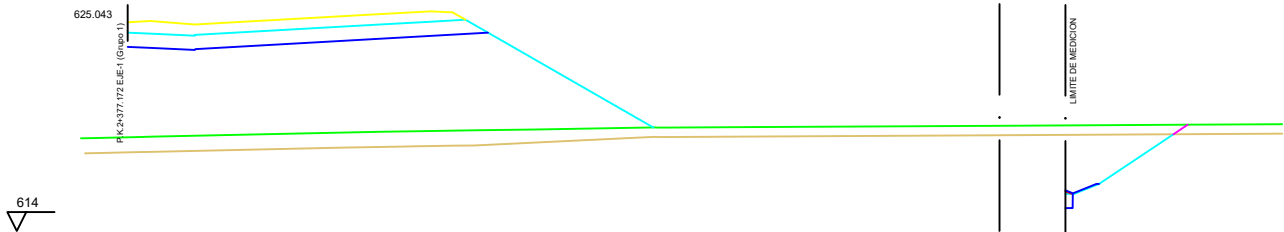


EJE 11  
PK 0+000 - 0+120



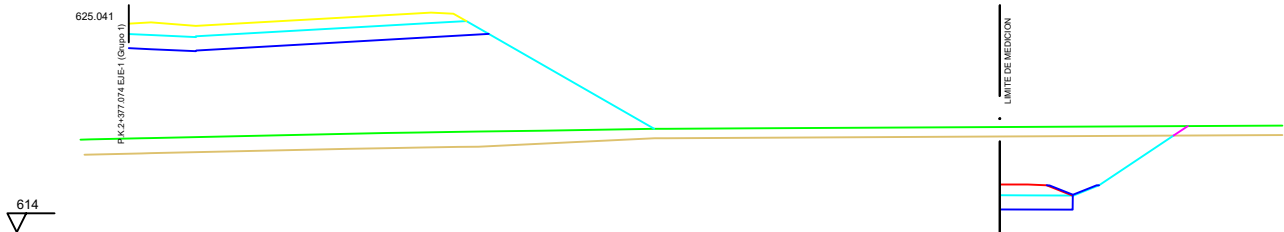
Pk=0+000

S. REVES CUNETAS = 0.08 m2.  
S. D TIERRA = 9.48 m2.  
S. SUELO SEL 1 = 0.06 m2.  
S. VEGETAL = 2.90 m2.



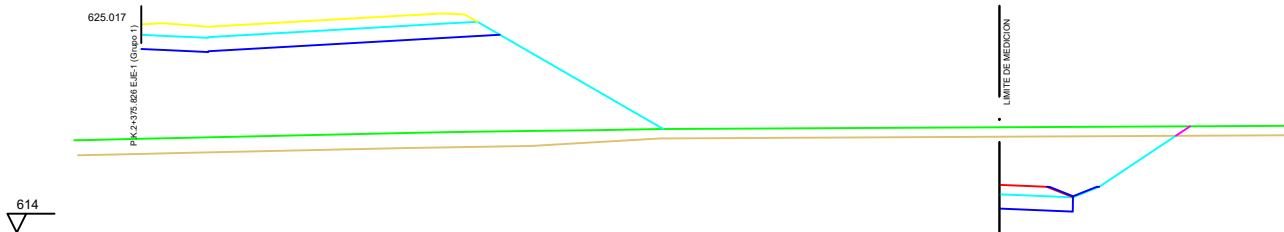
Pk=0+000.005

S. FIRME = 0.02 m2.  
S. REVES CUNETAS = 0.09 m2.  
S. D TIERRA = 10.61 m2.  
S. SUELO SEL 1 = 0.28 m2.  
S. VEGETAL = 3.05 m2.



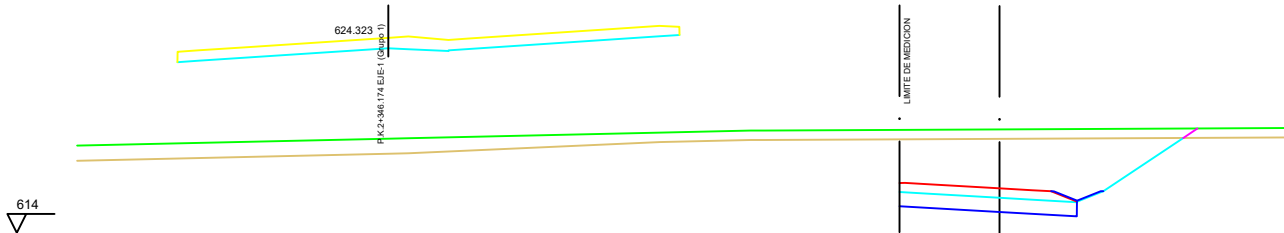
Pk=0+000.062

S. FIRME = 1.76 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 24.06 m2.  
S. SUELO SEL 1 = 2.88 m2.  
S. VEGETAL = 4.78 m2.



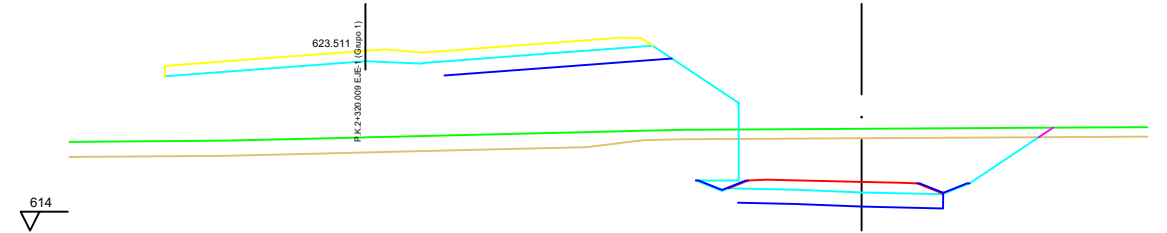
Pk=0+000.786

S. FIRME = 1.61 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 24.69 m2.  
S. SUELO SEL 1 = 2.92 m2.  
S. VEGETAL = 4.86 m2.



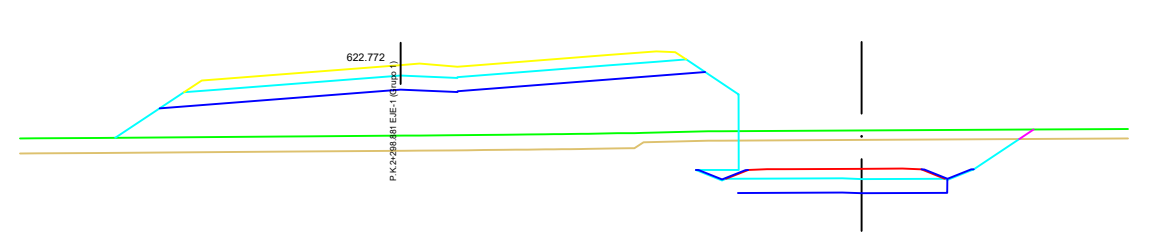
Pk=0+020

S. FIRME = 4.37 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 46.12 m2.  
S. SUELO SEL 1 = 7.04 m2.  
S. VEGETAL = 7.69 m2.



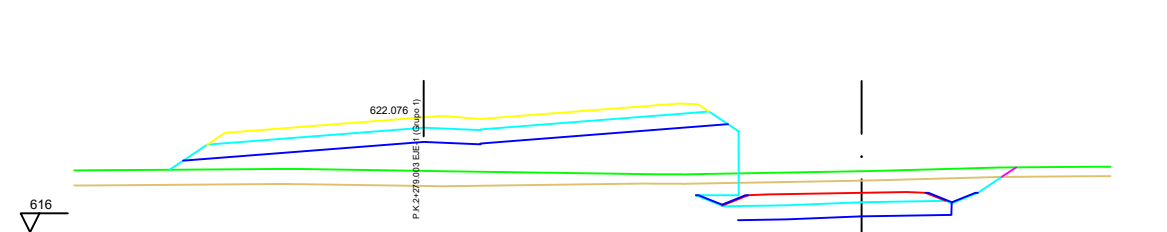
Pk=0+040

S. FIRME = 5.33 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 46.81 m2.  
S. SUELO SEL 1 = 8.28 m2.  
S. VEGETAL = 8.39 m2.



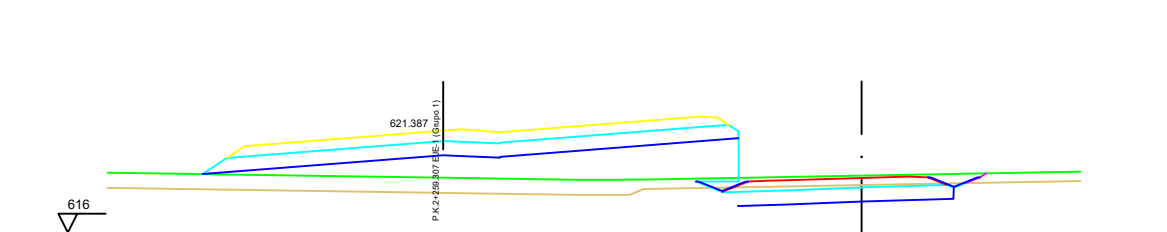
Pk=0+060

S. FIRME = 5.29 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 35.48 m2.  
S. SUELO SEL 1 = 8.44 m2.  
S. VEGETAL = 7.95 m2.



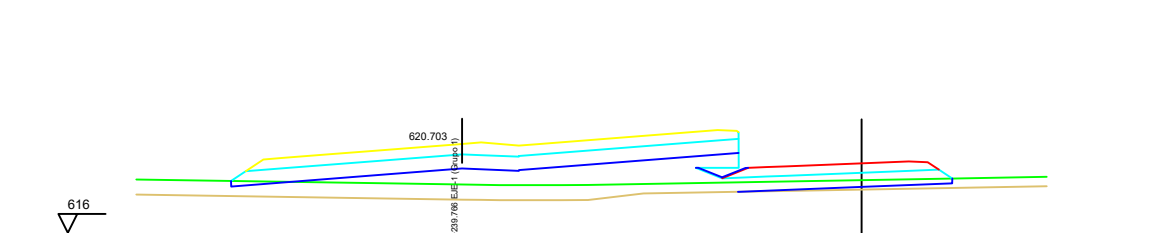
Pk=0+080

S. FIRME = 5.67 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 23.88 m2.  
S. SUELO SEL 1 = 8.57 m2.  
S. VEGETAL = 7.58 m2.



Pk=0+100

S. FIRME = 5.47 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 10.36 m2.  
S. SUELO SEL 1 = 8.62 m2.  
S. VEGETAL = 6.73 m2.

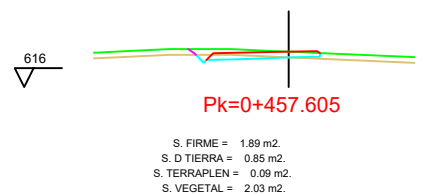
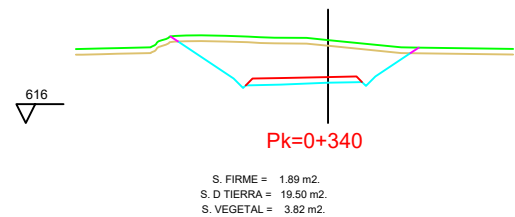
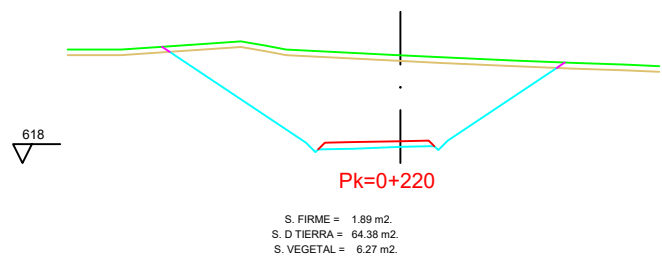
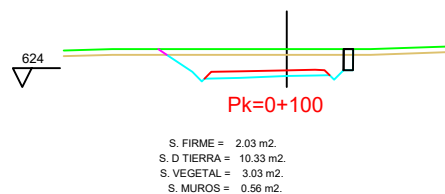
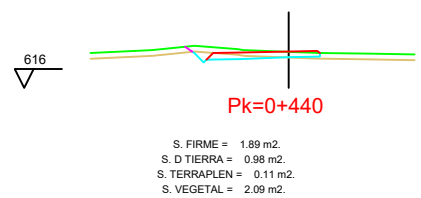
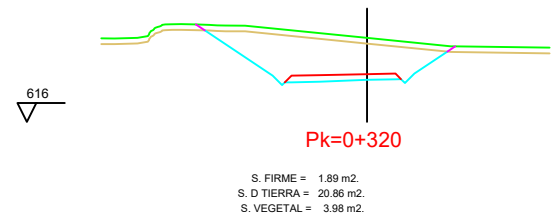
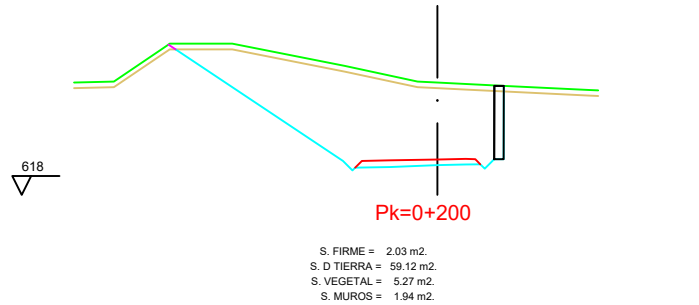
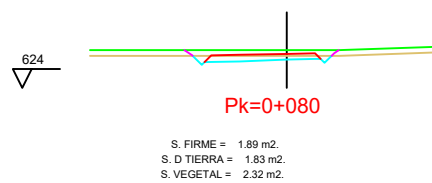
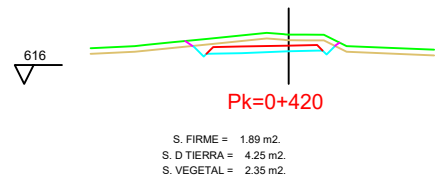
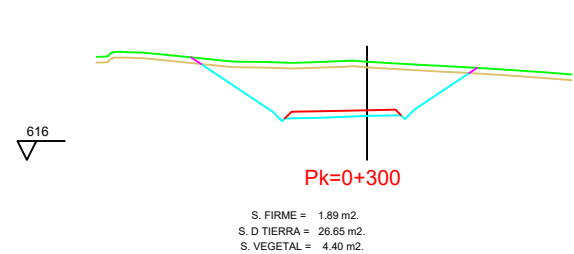
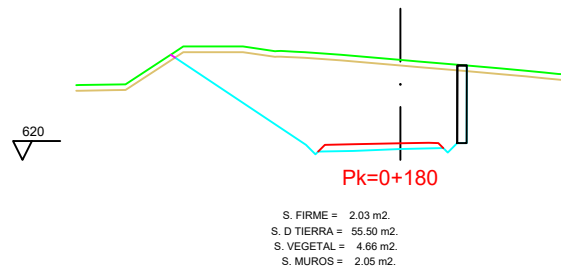
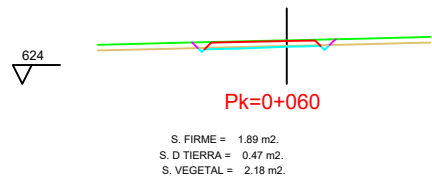
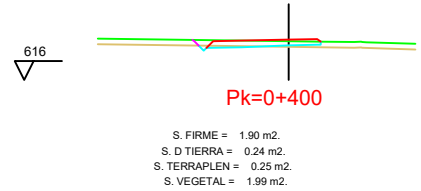
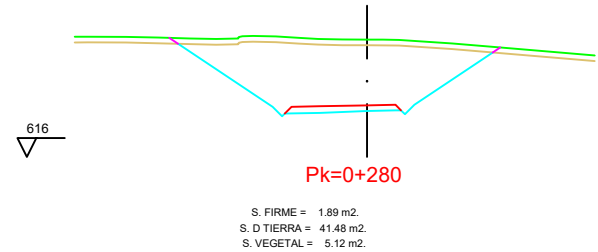
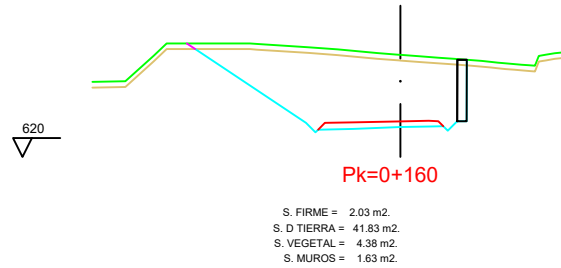
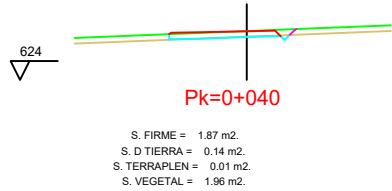
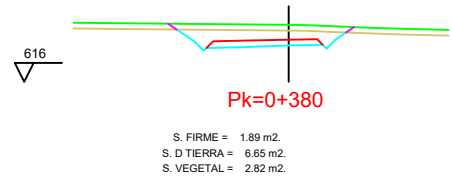
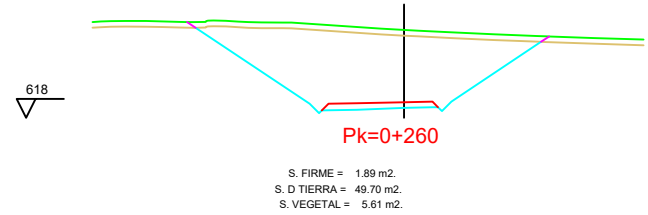
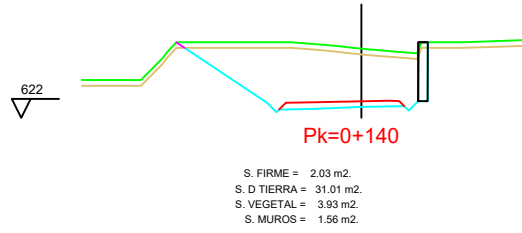
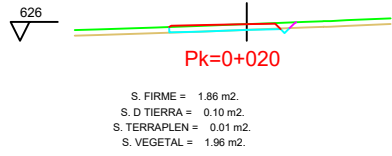
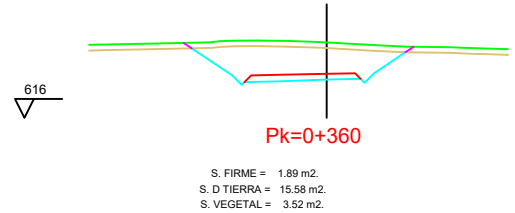
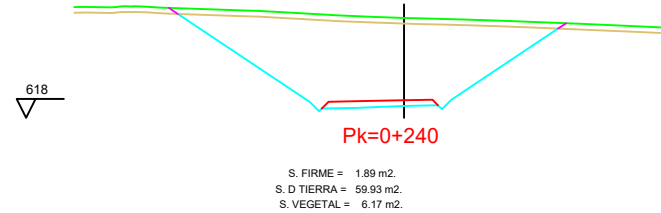
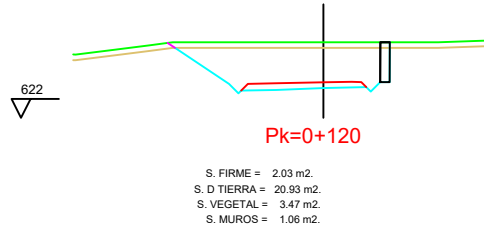
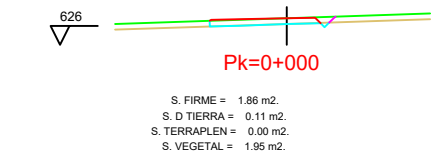


Pk=0+120

S. FIRME = 5.18 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. SUELO SEL 1 = 8.39 m2.  
S. TERRAPLEN = 1.40 m2.  
S. VEGETAL = 6.08 m2.



EJE 13  
PK 0+000 - 0+457,605



ORGANISMO



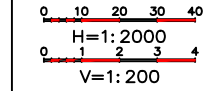
CONSULTOR



AUTOR DEL ESTUDIO

JAIME ALONSO HERAS  
INGENIERO DE CAMINOS, CANALES Y PUERTOS

ESCALAS



TITULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

06-02.04.dwg

DESIGNACIÓN

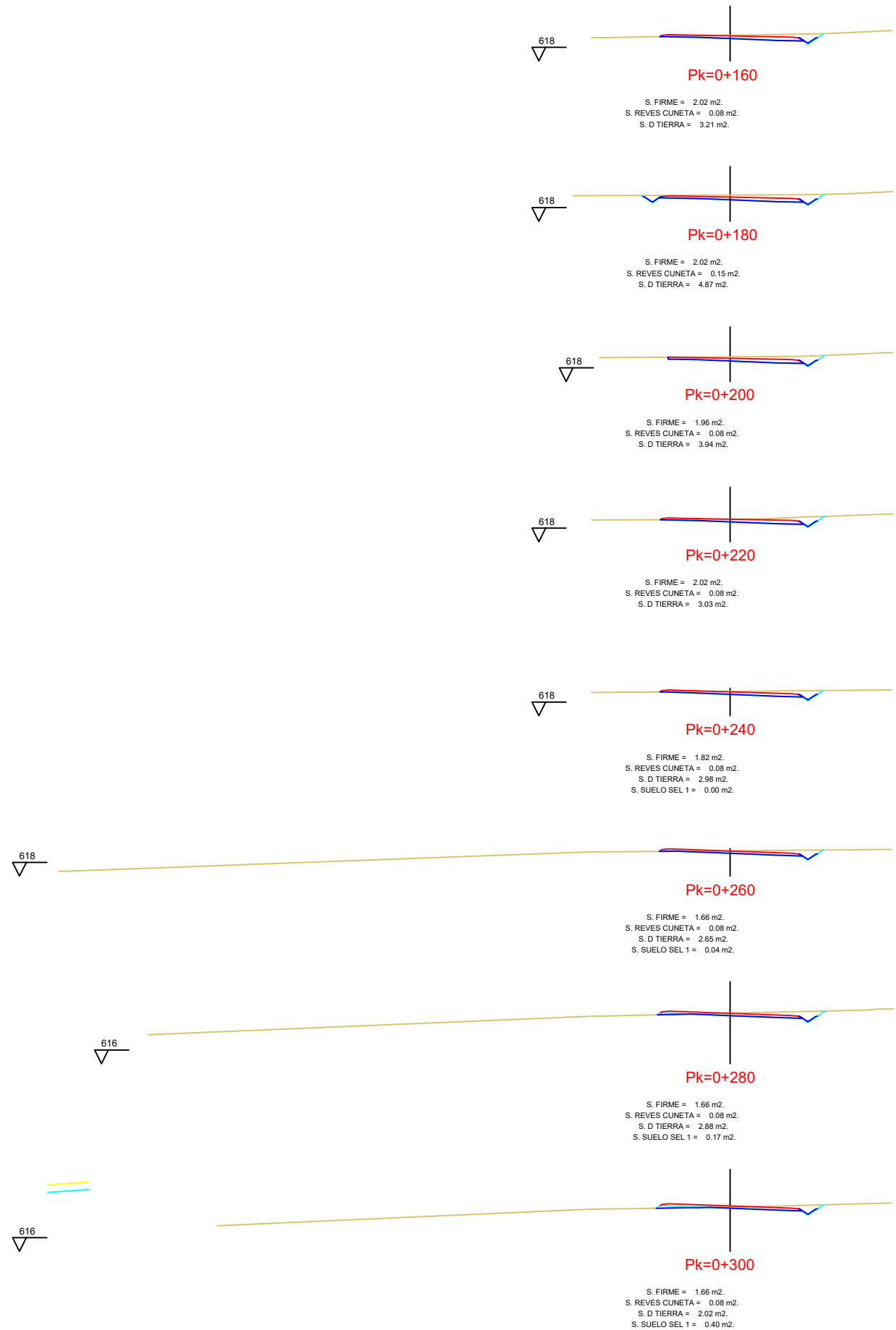
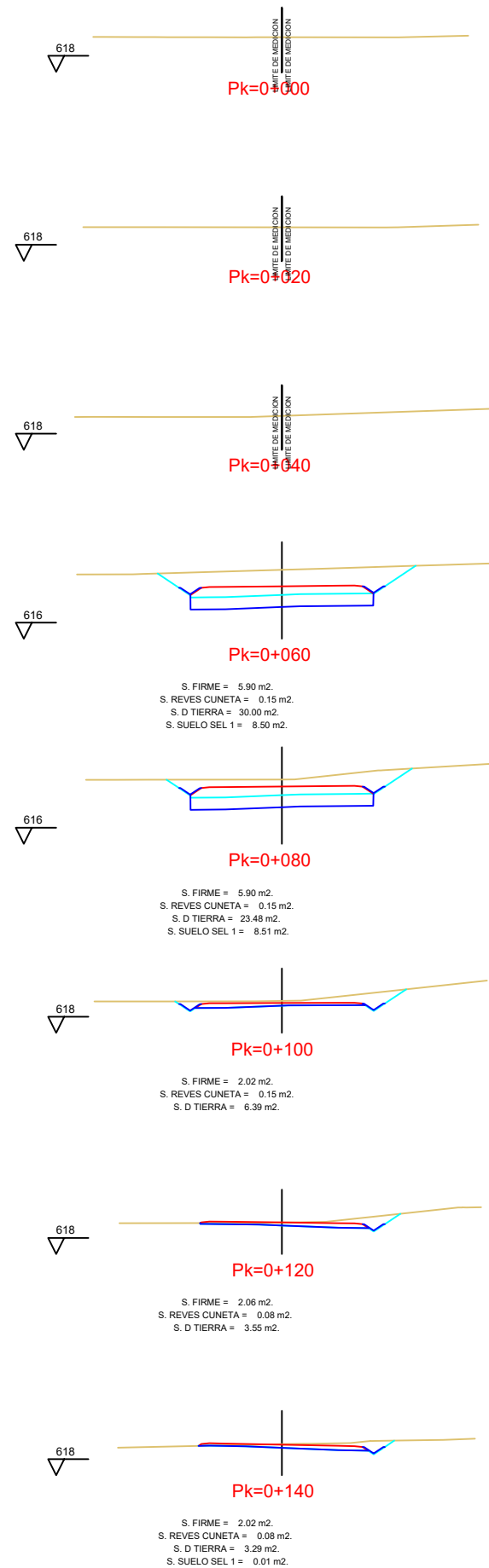
PERFILES TRANSVERSALES  
ALTERNATIVA 4

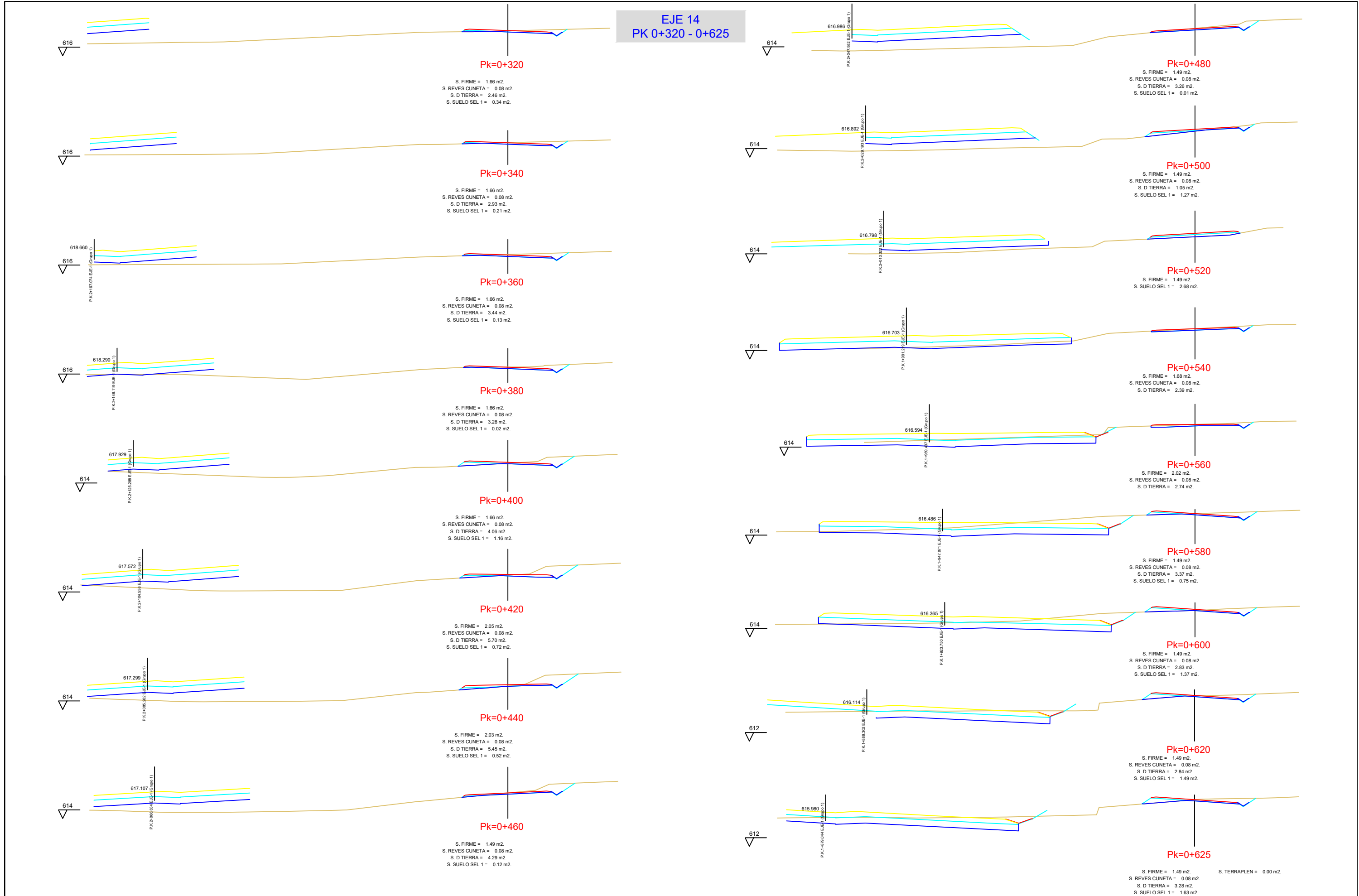
Nº PLANO

06-02.04

HOJA 38 DE 50

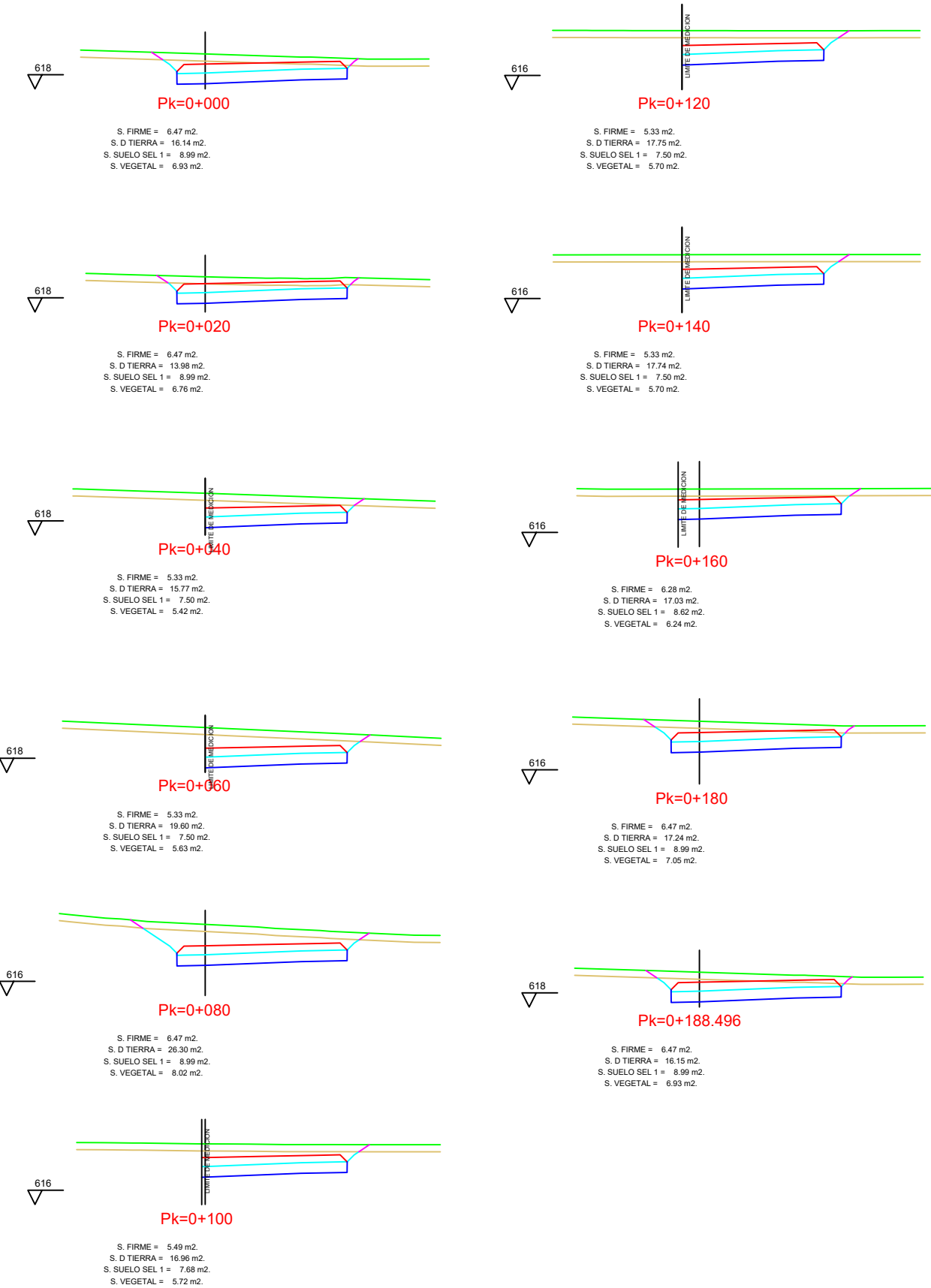
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PK 0+000 - 0+300



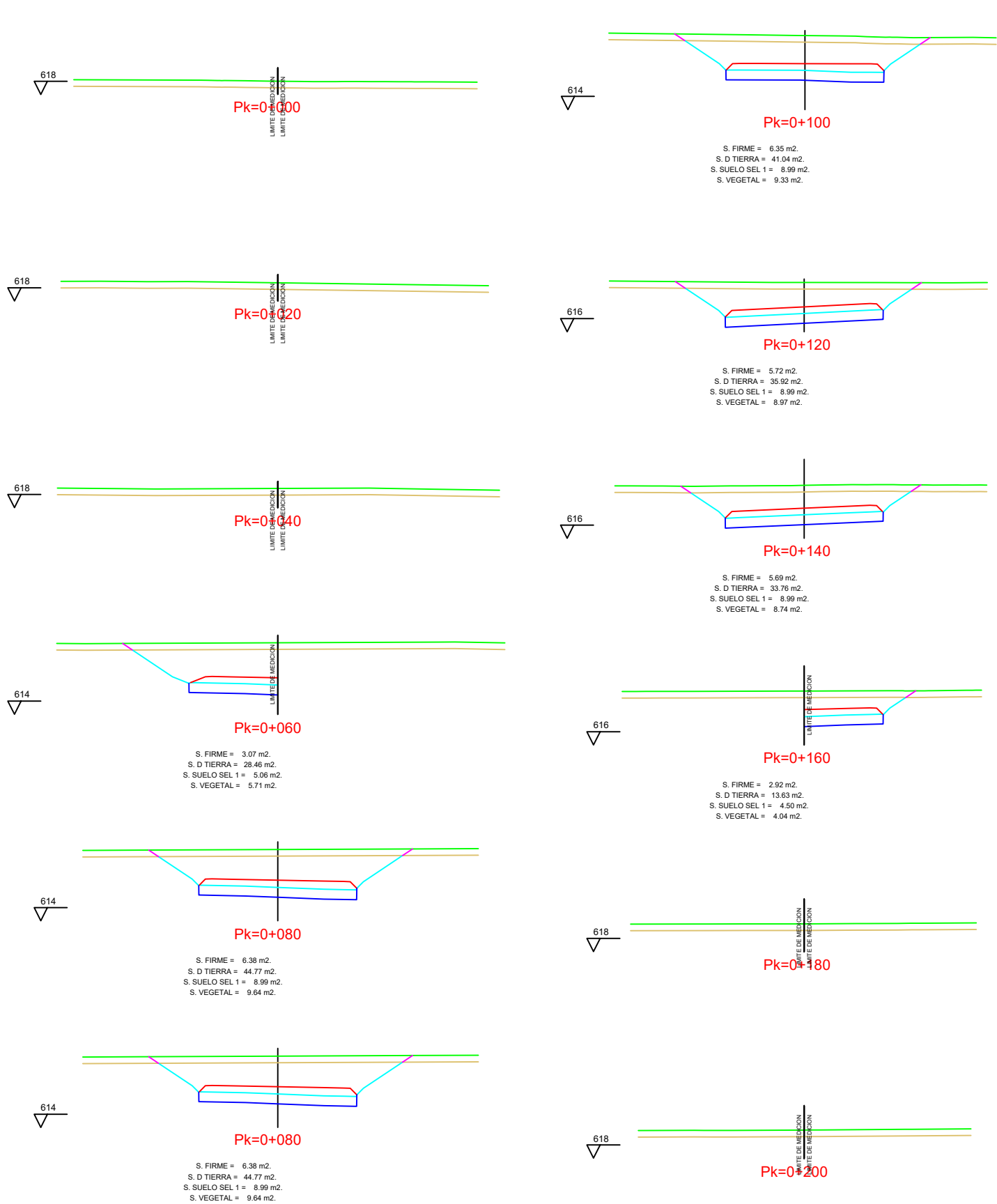




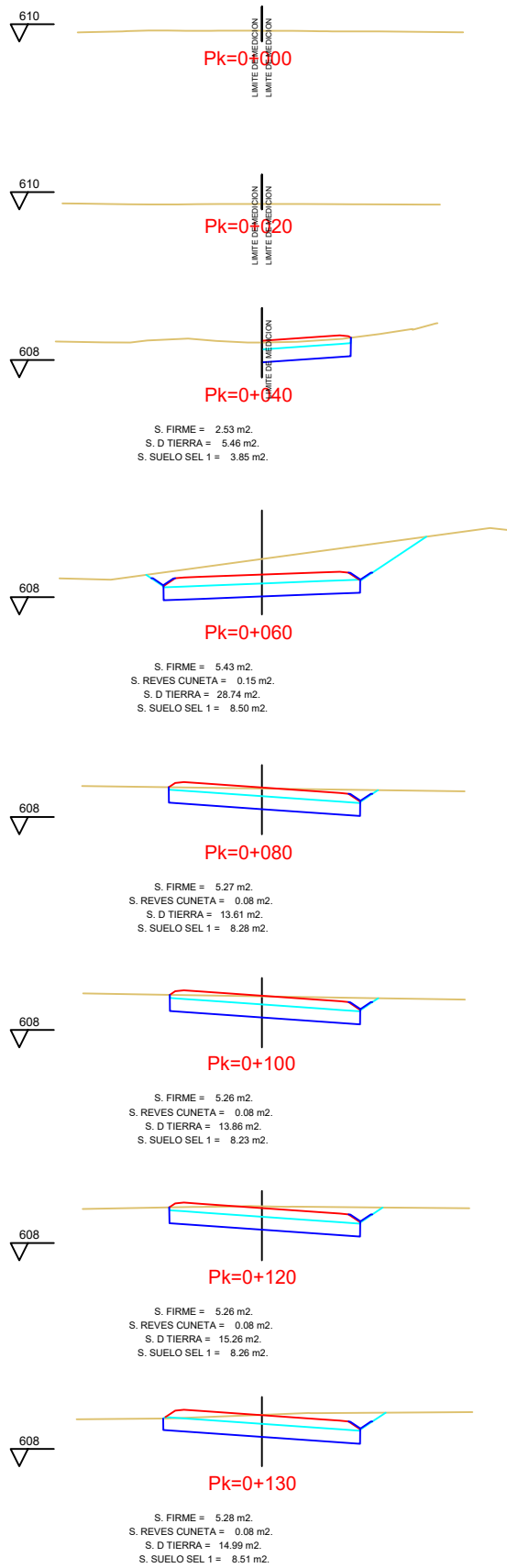
EJE 15  
PK 0+000 - 0+188,496



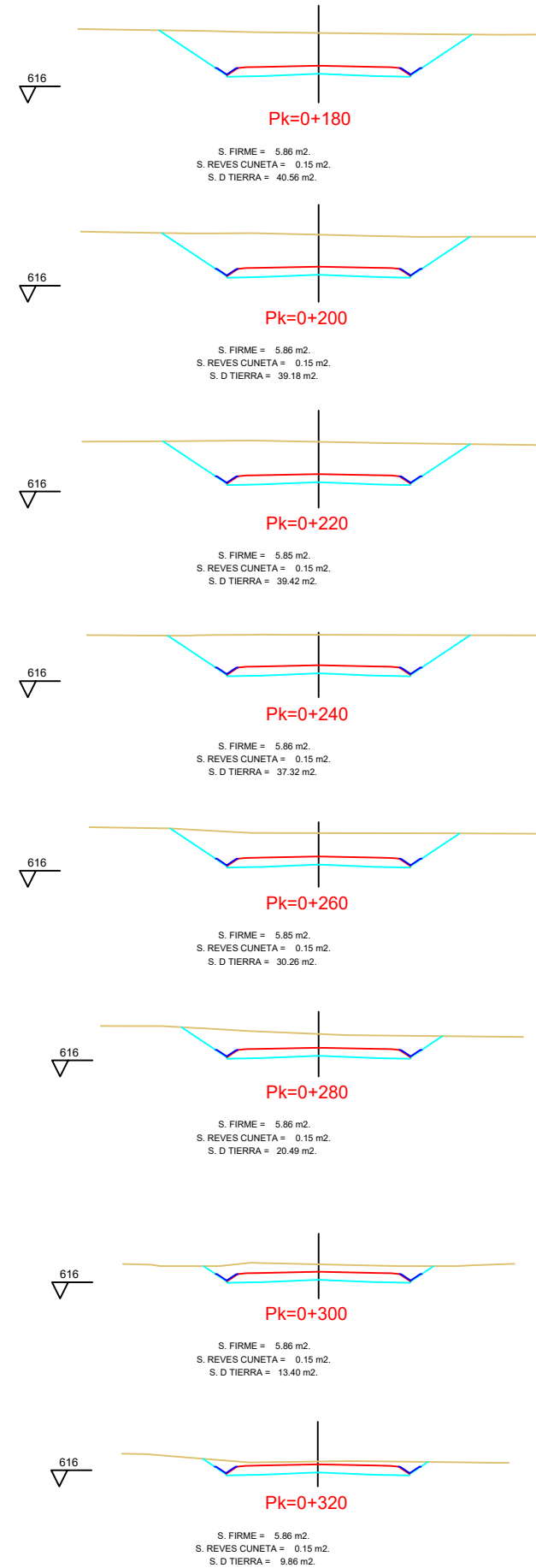
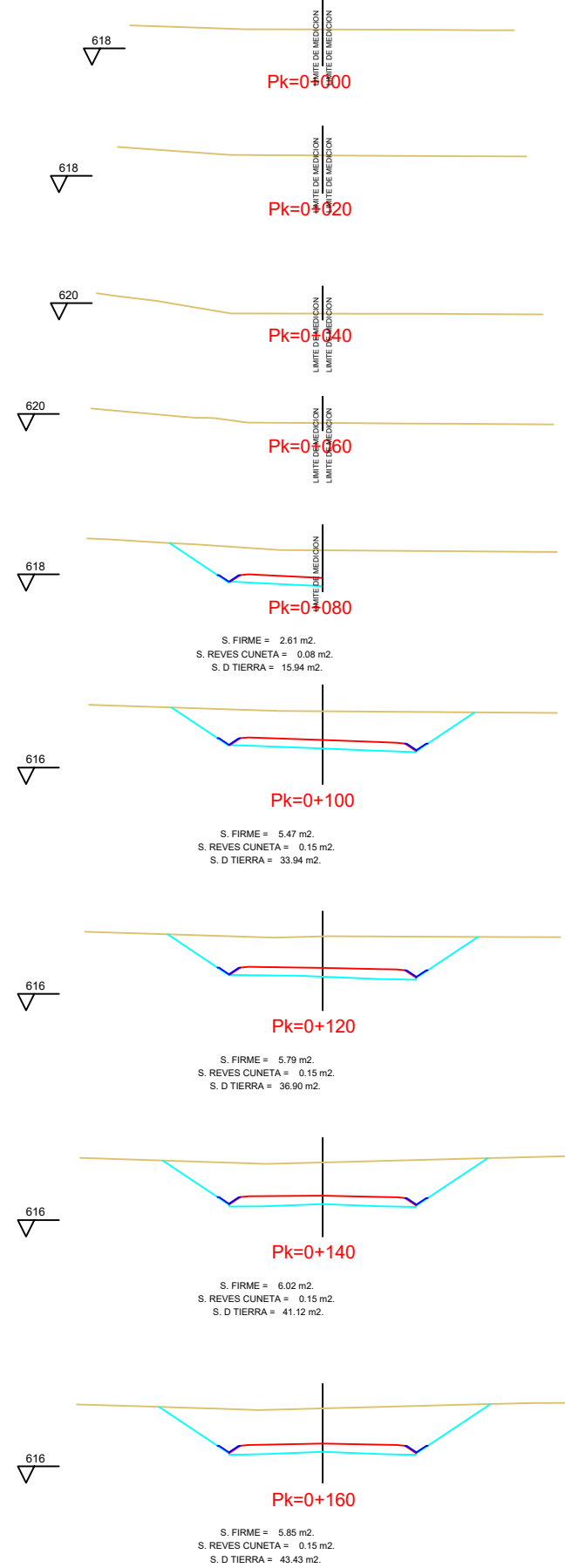
EJE 16  
PK 0+000 - 0+200



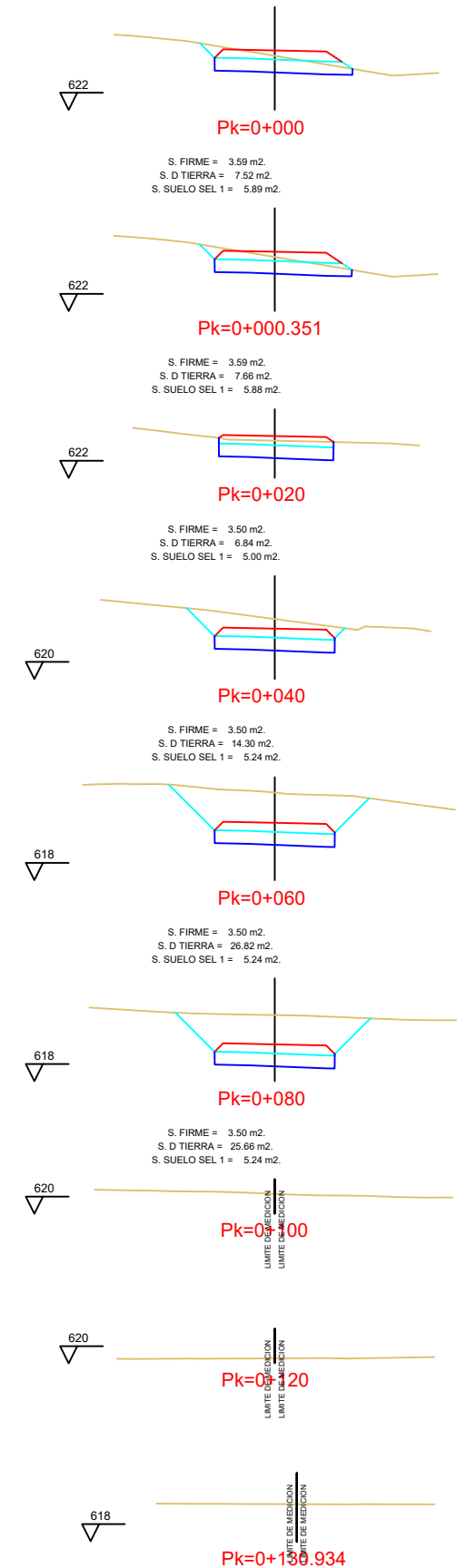
EJE 17  
PK 0+000 - 0+130



EJE 18  
PK 0+000 - 0+320



EJE 19  
PK 0+000 - 0+130,934



ORGANISMO



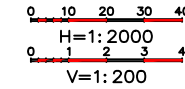
CONSULTOR



AUTOR DEL ESTUDIO

JAIME ALONSO HERAS  
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ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

06-02.04.dwg

DESIGNACIÓN

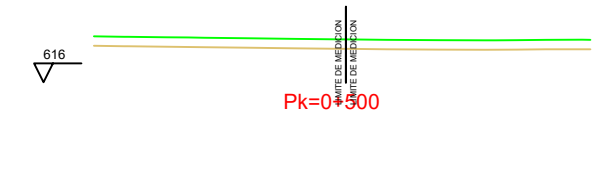
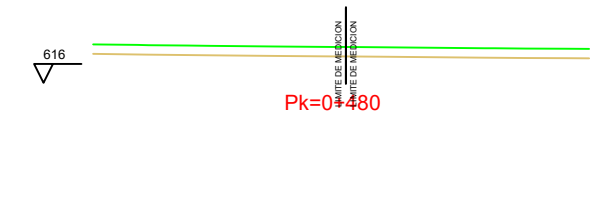
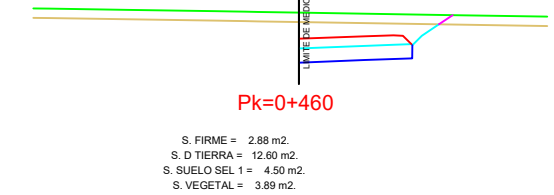
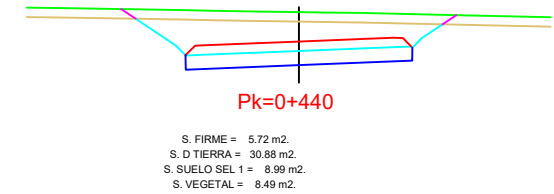
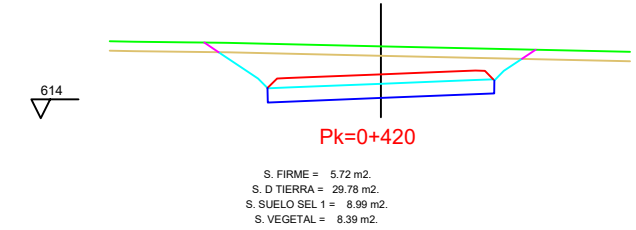
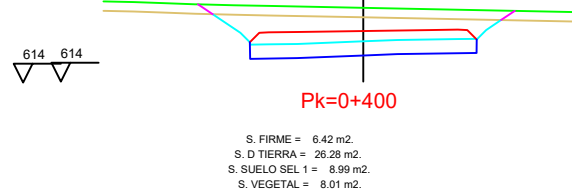
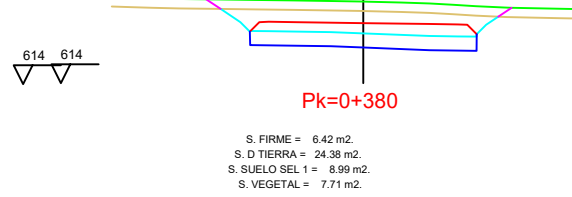
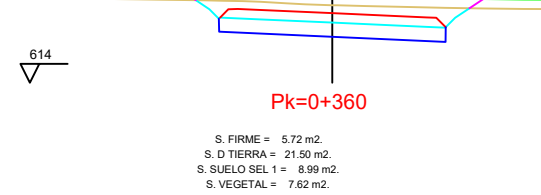
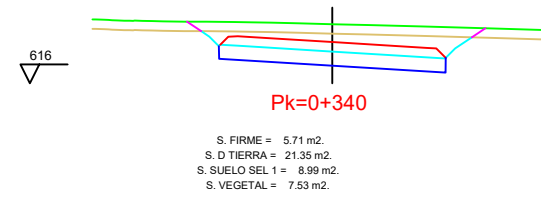
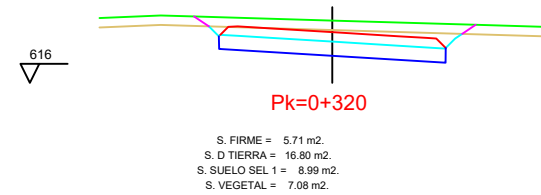
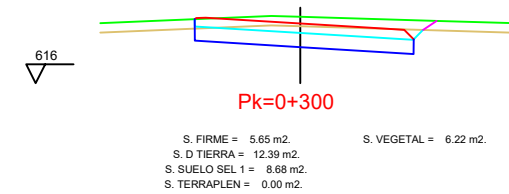
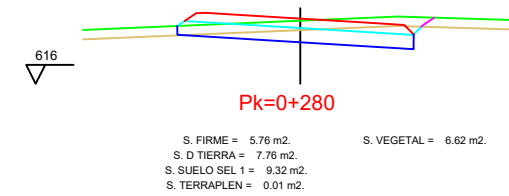
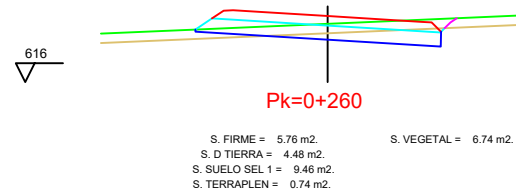
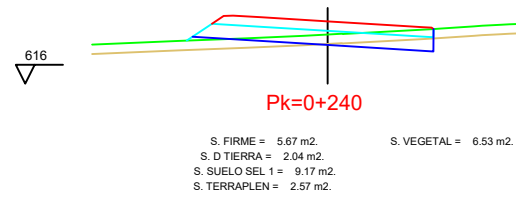
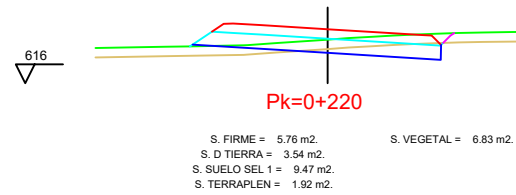
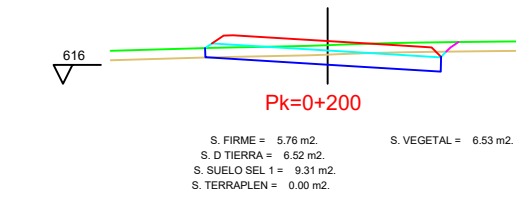
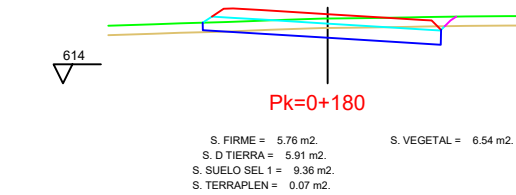
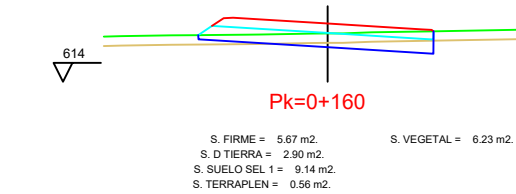
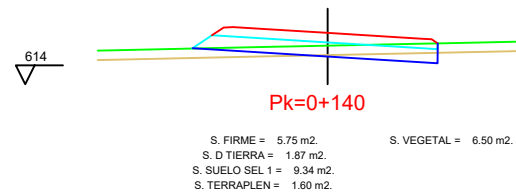
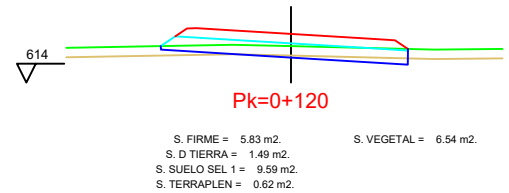
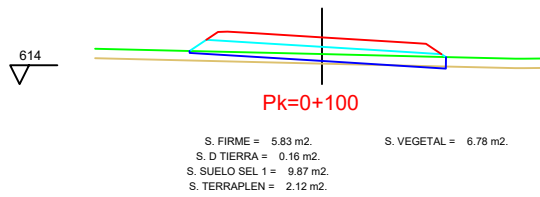
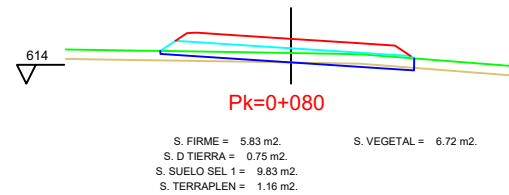
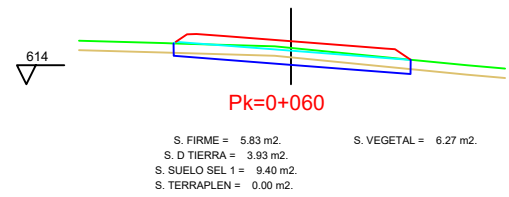
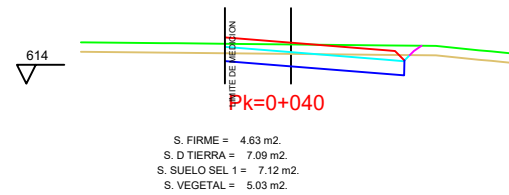
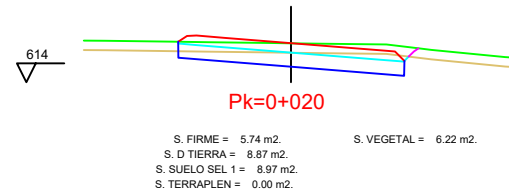
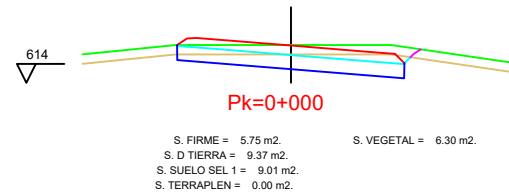
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

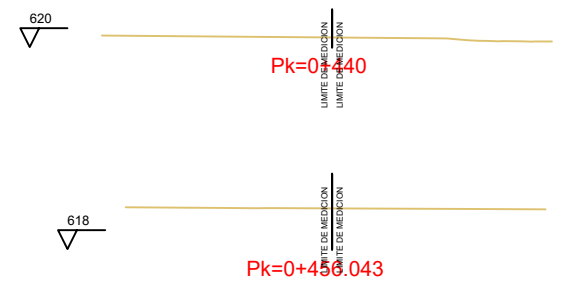
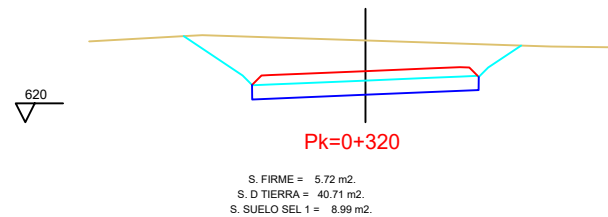
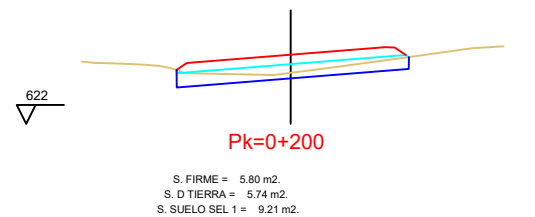
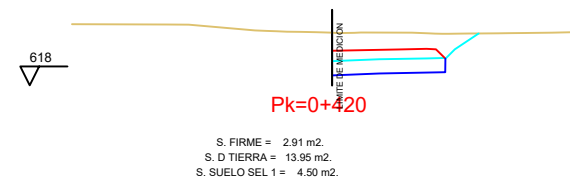
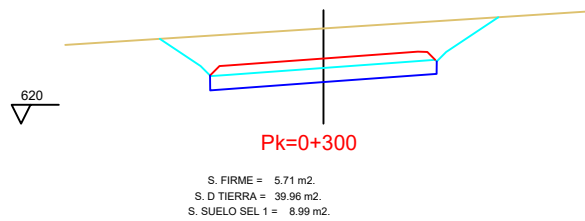
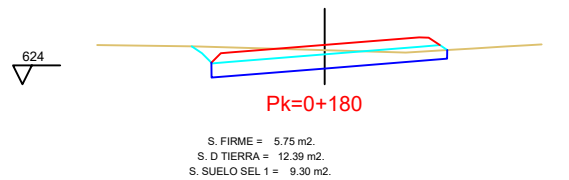
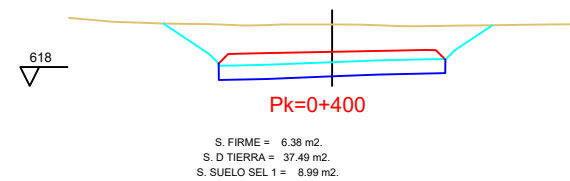
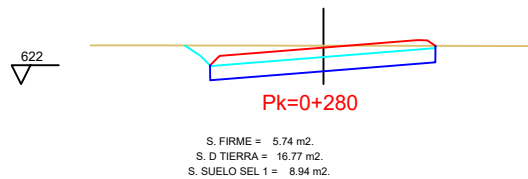
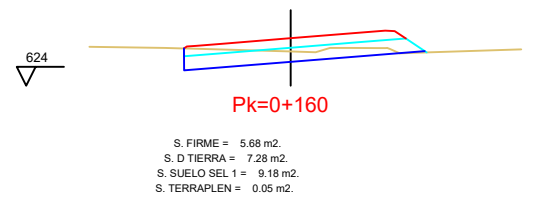
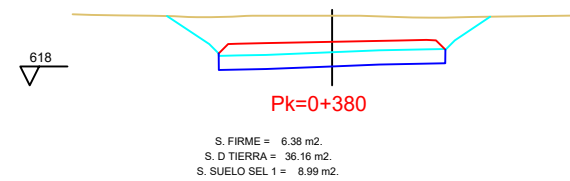
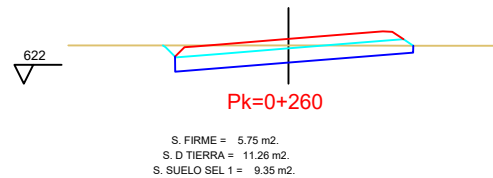
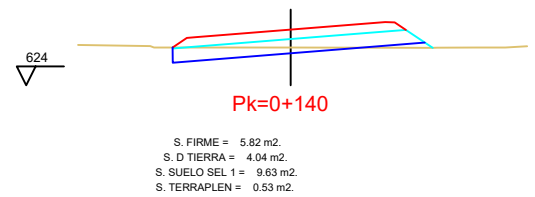
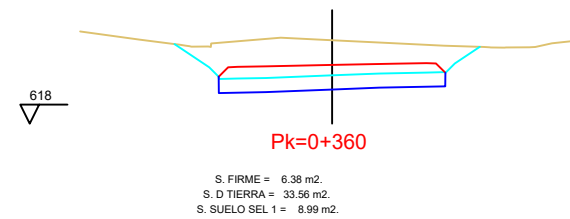
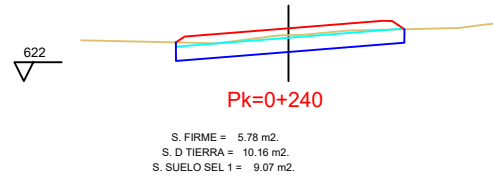
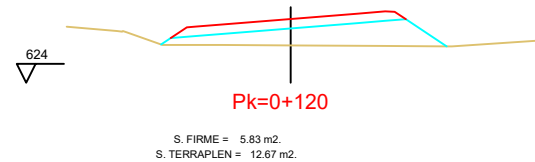
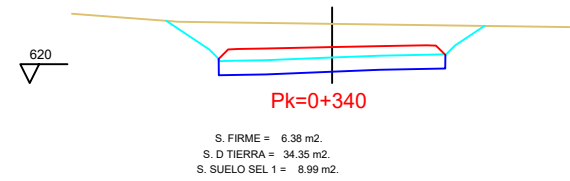
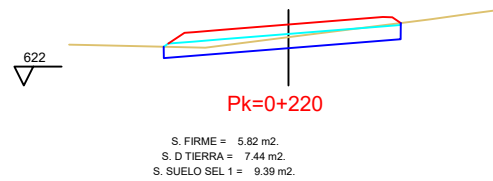
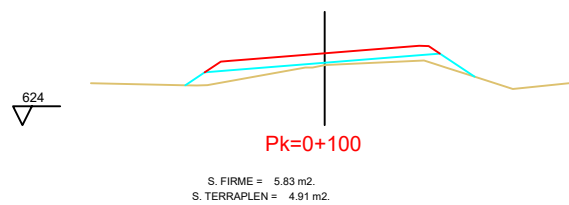
06-02.04

HOJA 42DE 50

EJE 20  
PK 0+000 - 0+500



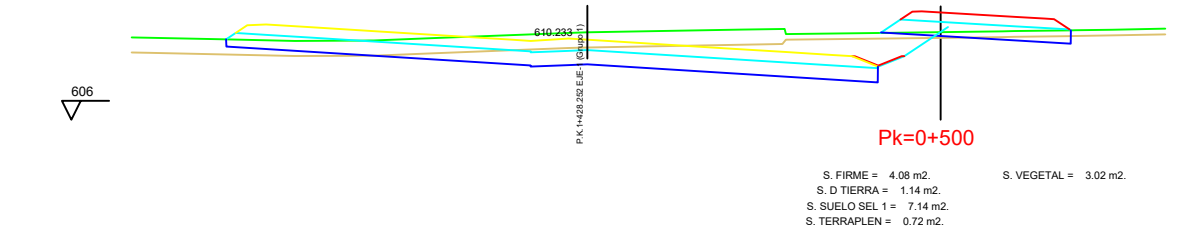
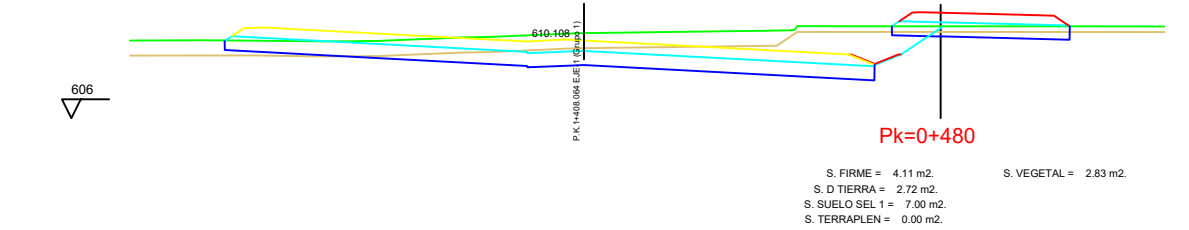
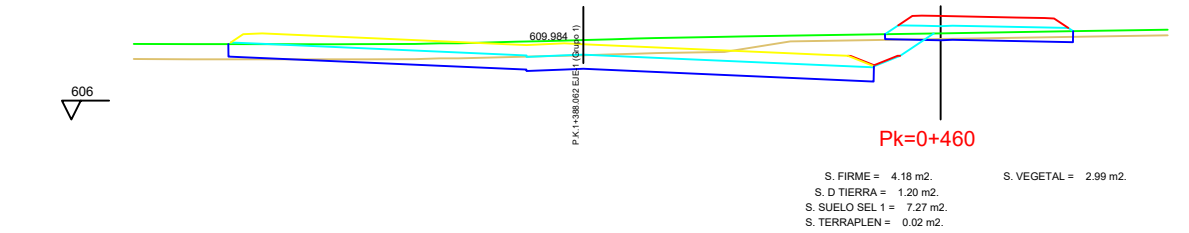
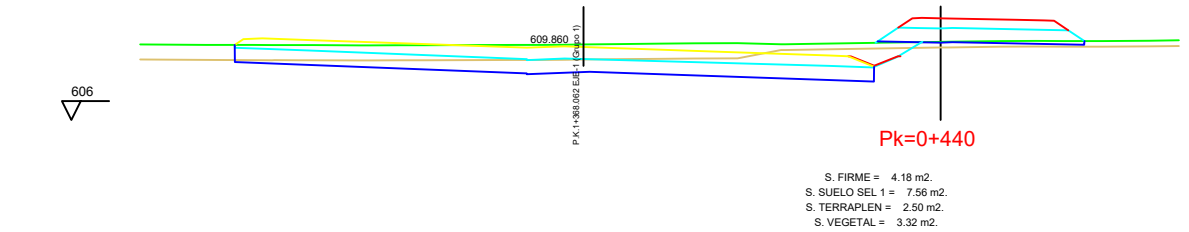
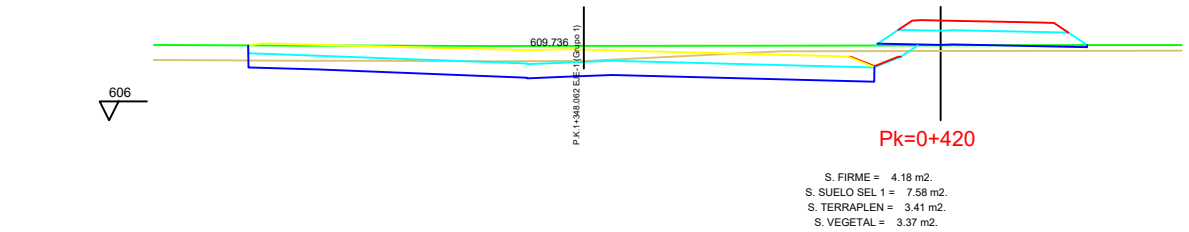
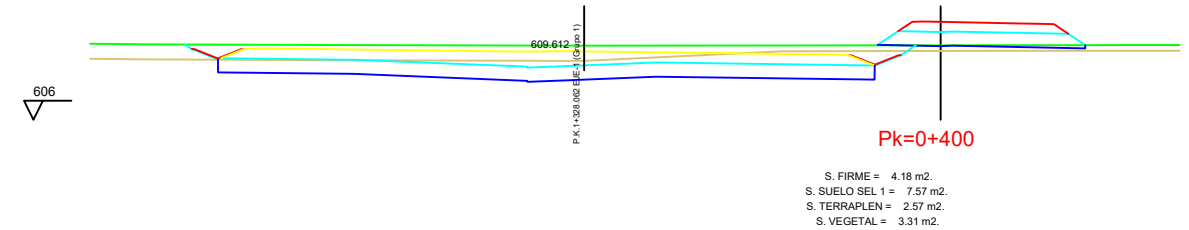
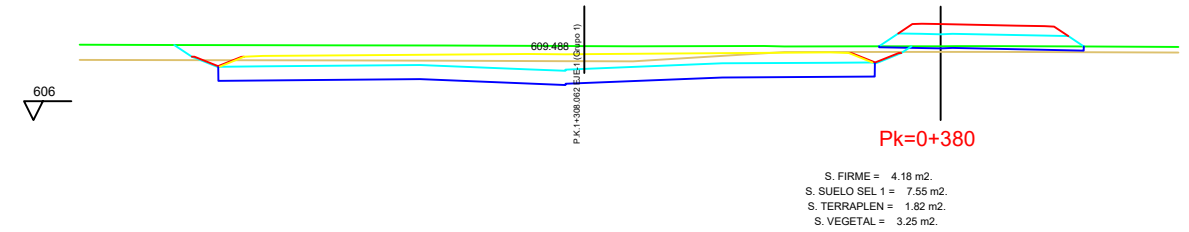
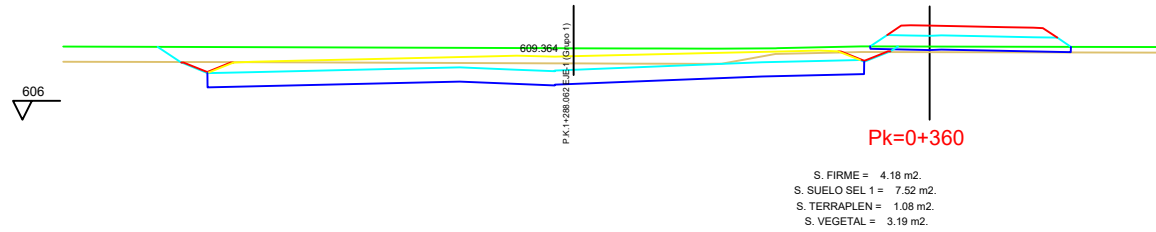
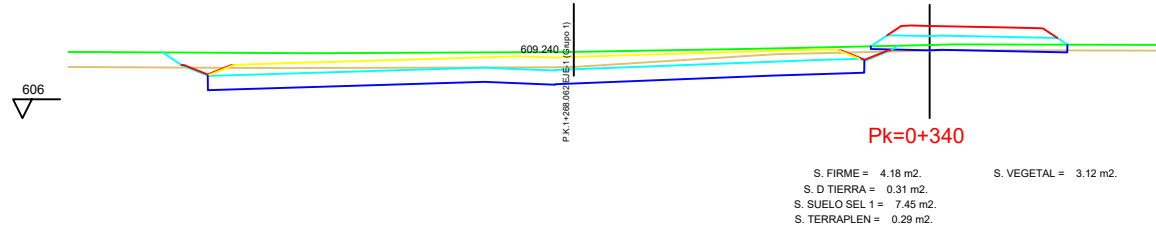
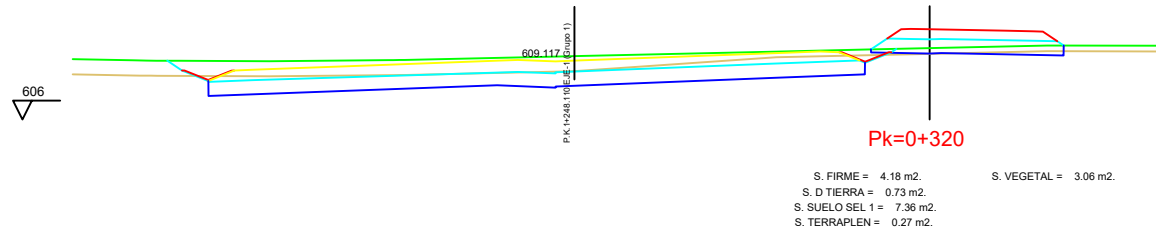
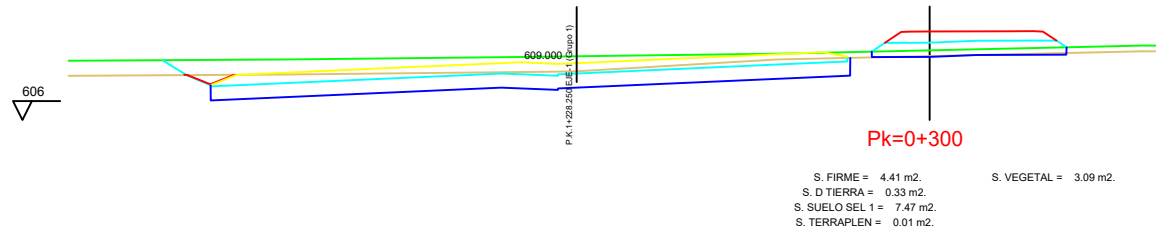
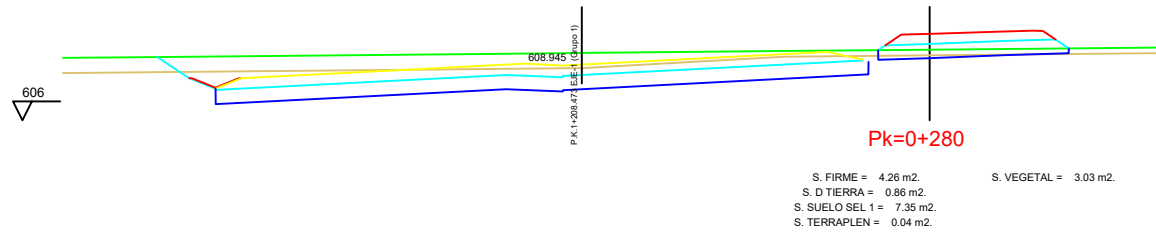
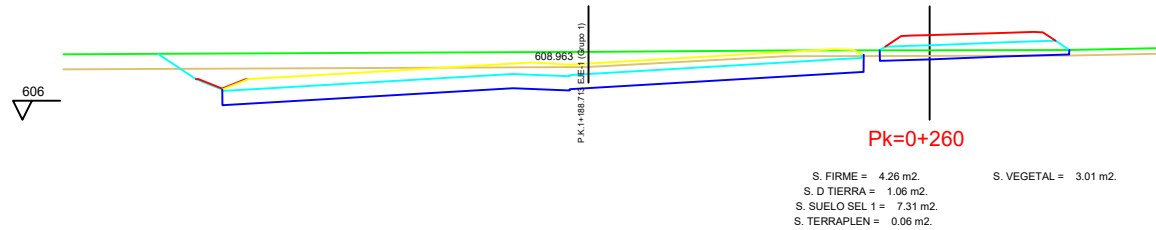
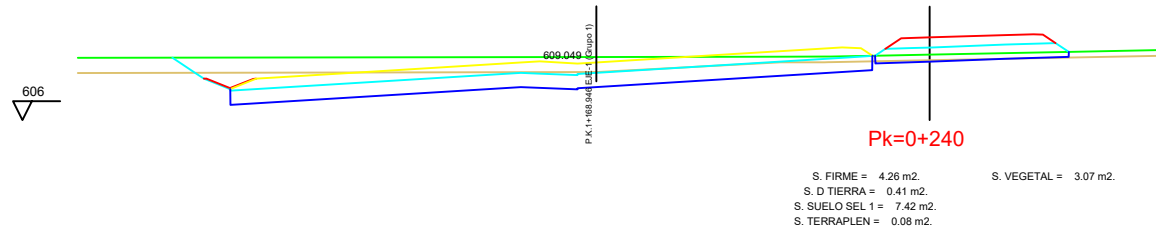
EJE 21  
PK 0+100 - 0+456,043



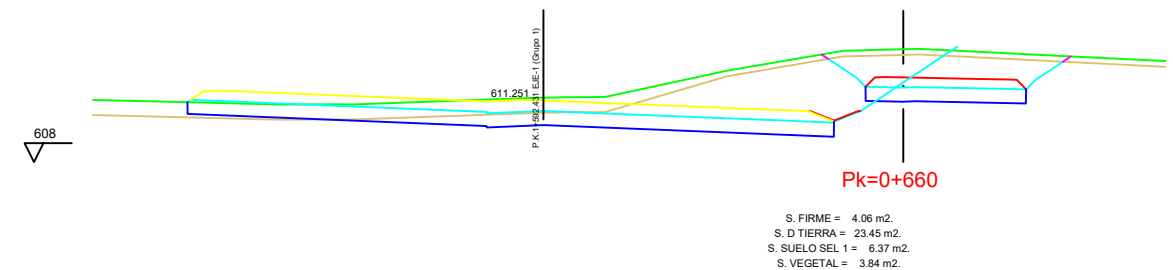
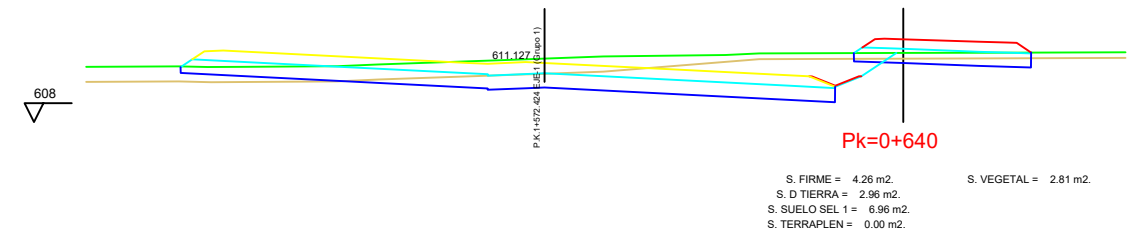
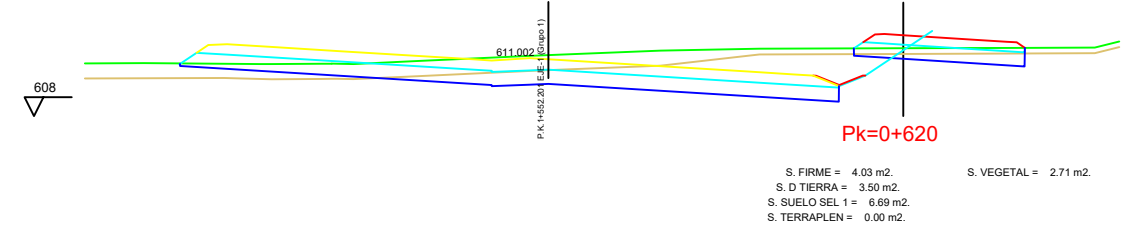
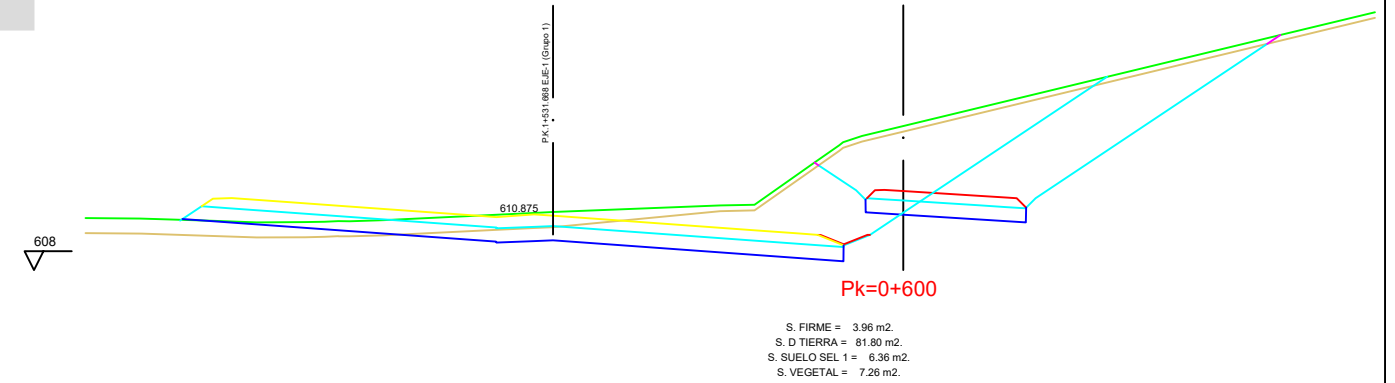
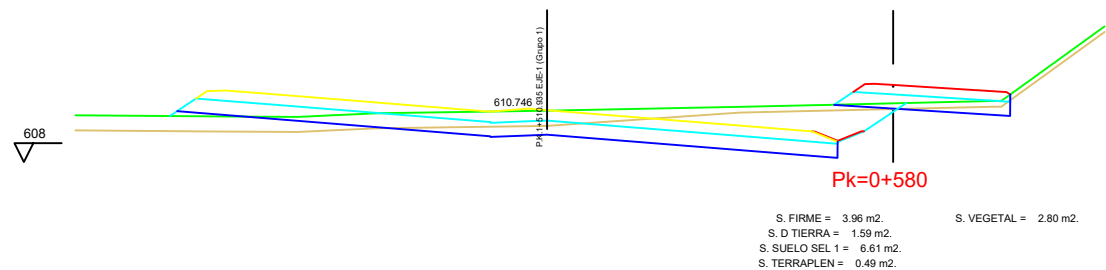
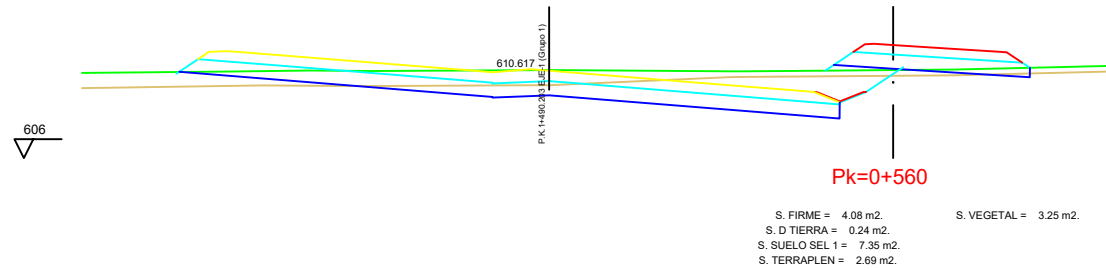
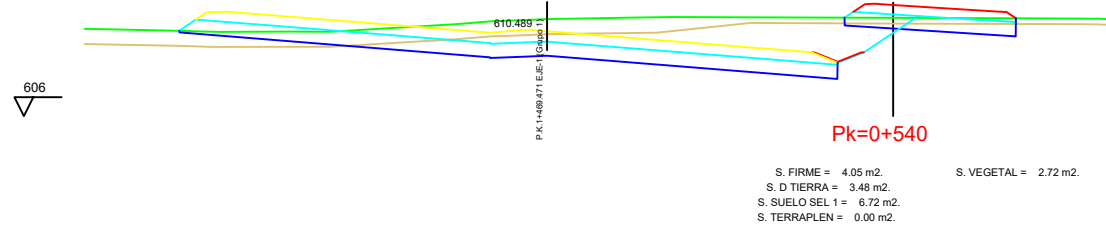
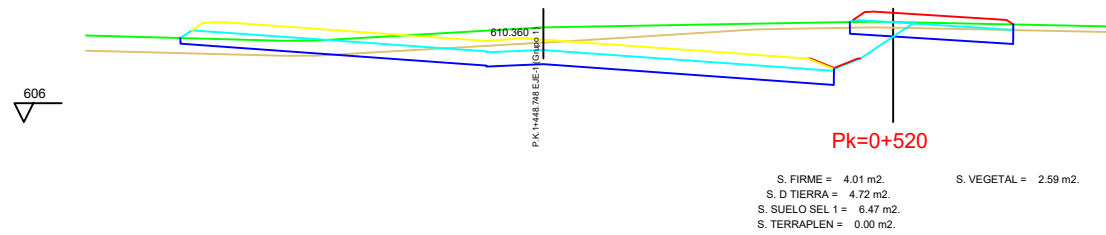




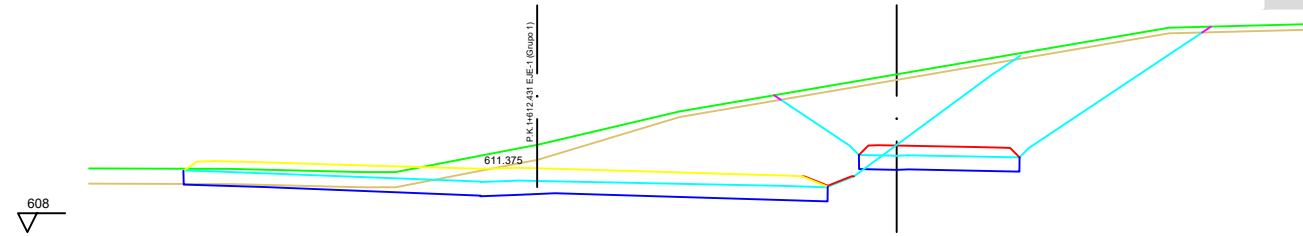
EJE 22  
PK 0+240 - 0+500



EJE 22  
PK 0+520 - 0+660

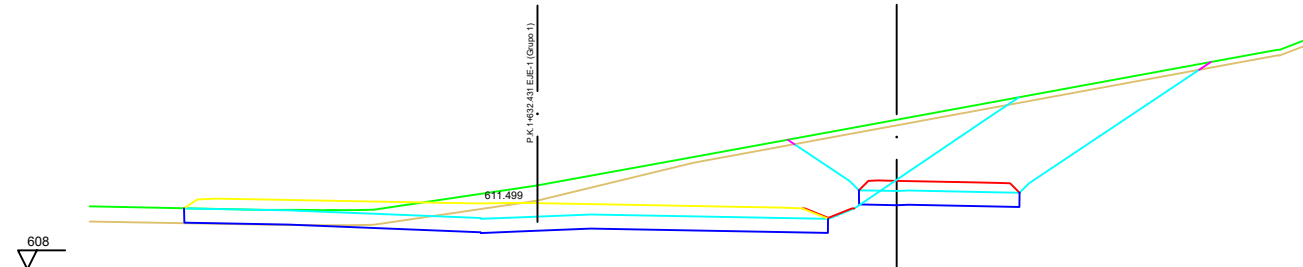


EJE 22  
PK 0+680 - 0+880



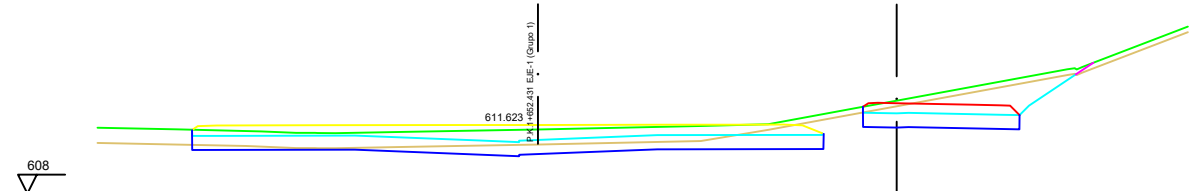
Pk=0+680

S. FIRME = 4.06 m2.  
S. D TIERRA = 76.43 m2.  
S. SUELO SEL 1 = 6.37 m2.  
S. VEGETAL = 6.81 m2.



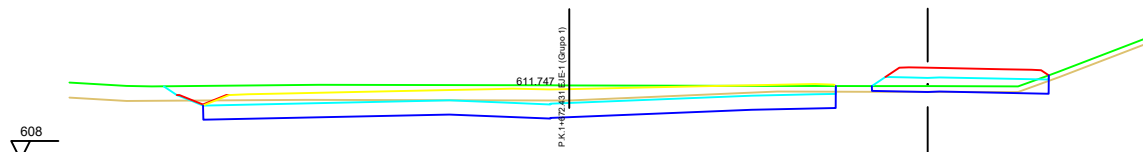
Pk=0+700

S. FIRME = 4.06 m2.  
S. D TIERRA = 66.39 m2.  
S. SUELO SEL 1 = 6.37 m2.  
S. VEGETAL = 6.57 m2.



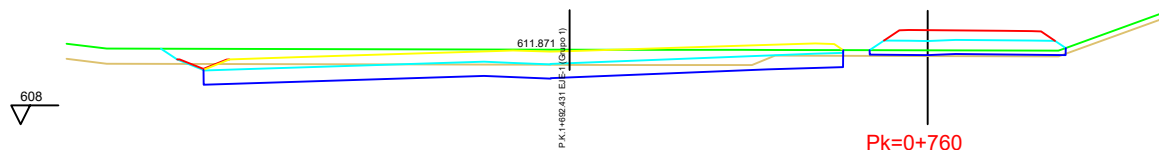
Pk=0+720

S. FIRME = 4.05 m2.  
S. D TIERRA = 15.38 m2.  
S. SUELO SEL 1 = 6.21 m2.  
S. VEGETAL = 3.50 m2.



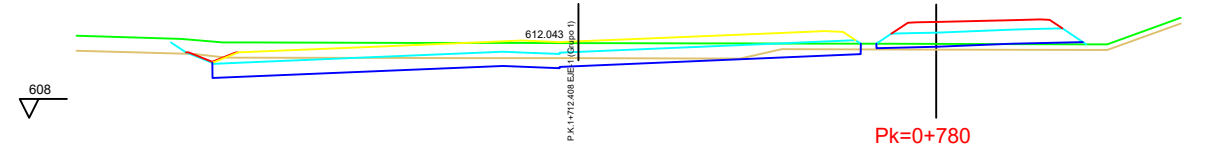
Pk=0+740

S. FIRME = 4.14 m2.  
S. D TIERRA = 0.70 m2.  
S. SUELO SEL 1 = 6.84 m2.  
S. TERRAPLEN = 0.06 m2.  
S. VEGETAL = 2.81 m2.



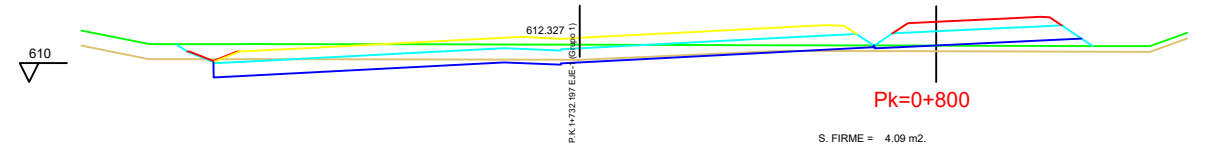
Pk=0+760

S. FIRME = 4.30 m2.  
S. D TIERRA = 0.01 m2.  
S. SUELO SEL 1 = 7.48 m2.  
S. TERRAPLEN = 0.79 m2.  
S. VEGETAL = 3.12 m2.



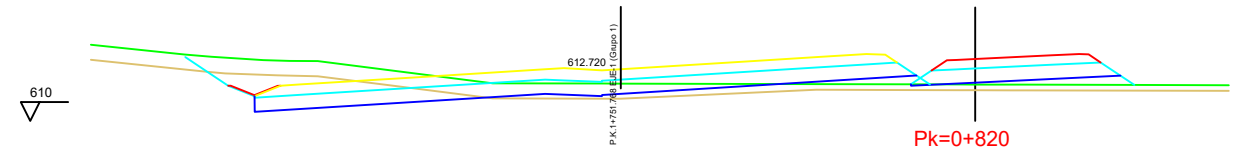
Pk=0+780

S. FIRME = 4.37 m2.  
S. SUELO SEL 1 = 7.58 m2.  
S. TERRAPLEN = 2.72 m2.  
S. VEGETAL = 3.33 m2.



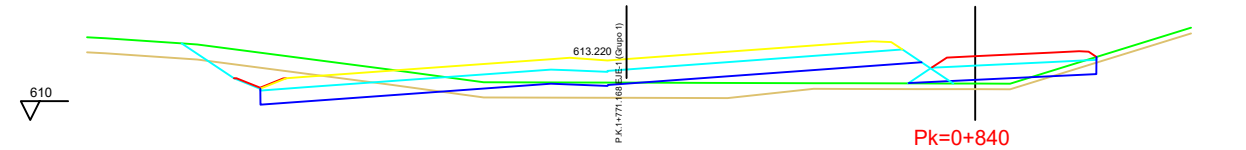
Pk=0+800

S. FIRME = 4.09 m2.  
S. SUELO SEL 1 = 7.54 m2.  
S. TERRAPLEN = 4.89 m2.  
S. VEGETAL = 3.47 m2.



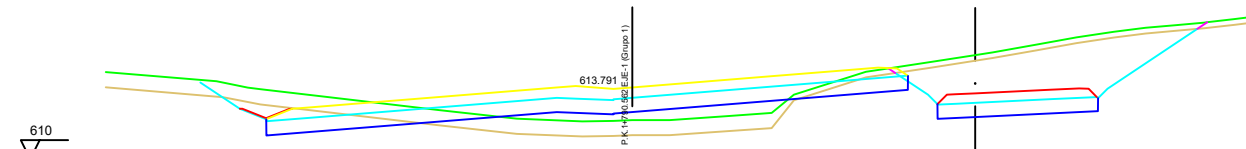
Pk=0+820

S. FIRME = 4.09 m2.  
S. SUELO SEL 1 = 7.55 m2.  
S. TERRAPLEN = 6.05 m2.  
S. VEGETAL = 3.55 m2.



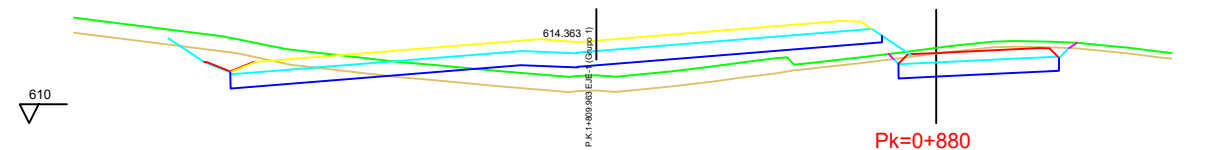
Pk=0+840

S. FIRME = 4.07 m2.  
S. D TIERRA = 0.70 m2.  
S. SUELO SEL 1 = 7.00 m2.  
S. TERRAPLEN = 3.10 m2.  
S. VEGETAL = 2.99 m2.



Pk=0+860

S. FIRME = 3.97 m2.  
S. D TIERRA = 37.61 m2.  
S. SUELO SEL 1 = 6.37 m2.  
S. VEGETAL = 4.93 m2.



Pk=0+880

S. FIRME = 3.97 m2.  
S. D TIERRA = 11.07 m2.  
S. SUELO SEL 1 = 6.37 m2.  
S. VEGETAL = 2.89 m2.

ORGANISMO



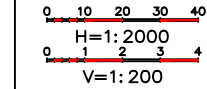
CONSULTOR



AUTOR DEL ESTUDIO

JAIME ALONSO HERAS  
INGENIERO DE CAMINOS, CANALES Y PUERTOS

ESCALAS



TITULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

06-02.04.dwg

DESIGNACIÓN

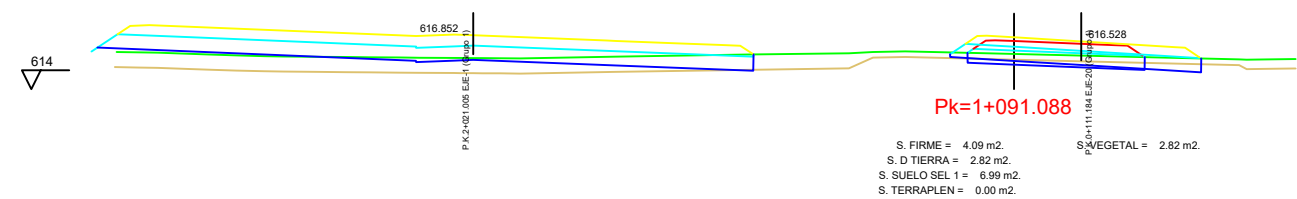
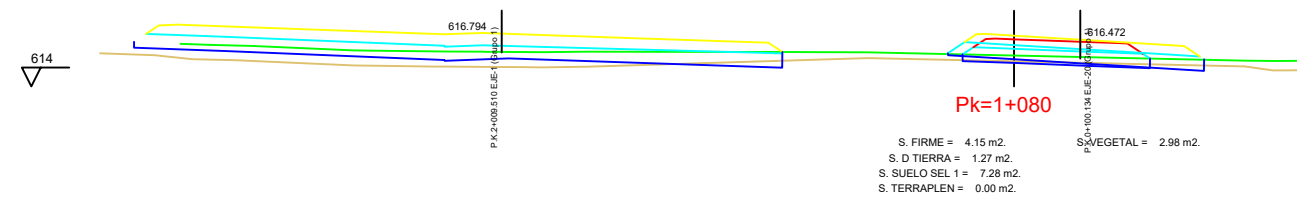
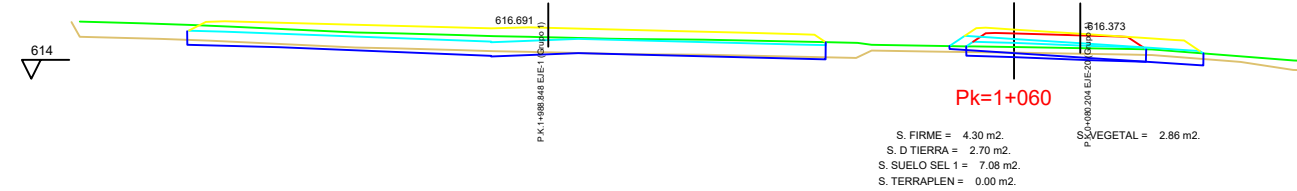
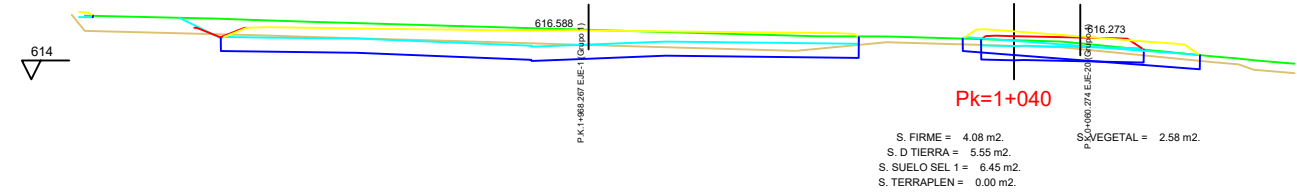
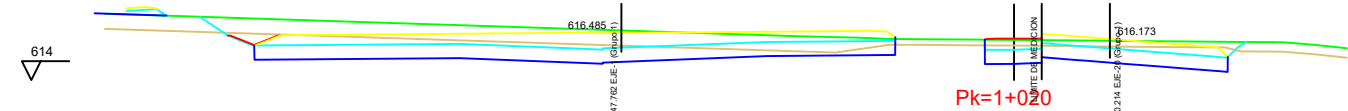
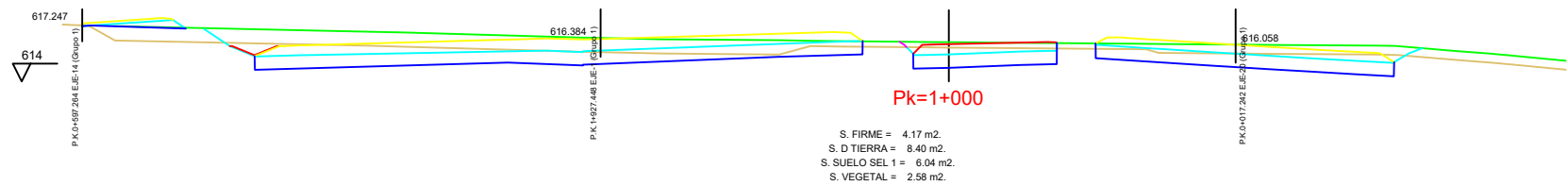
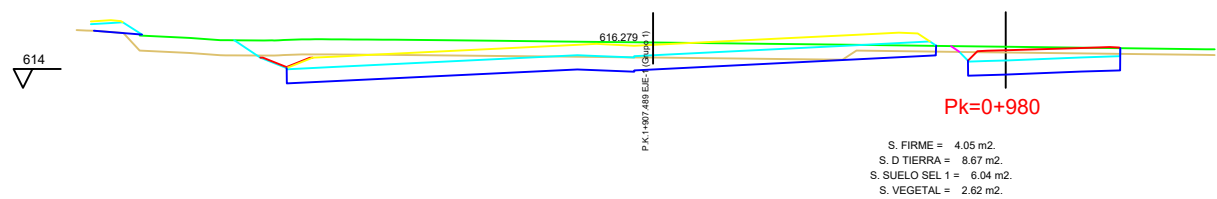
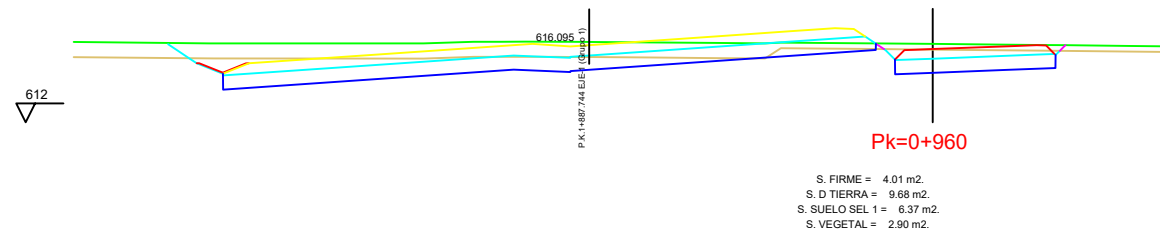
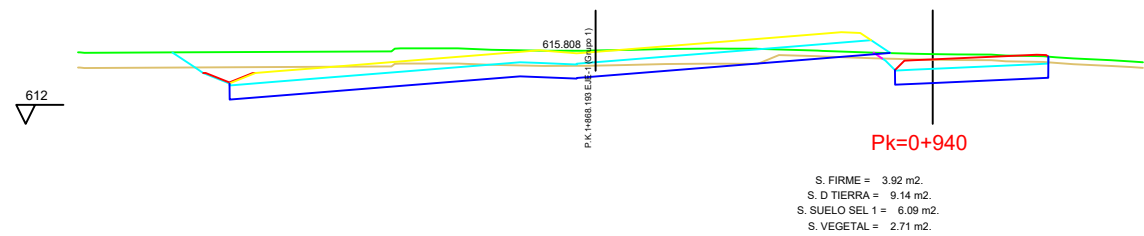
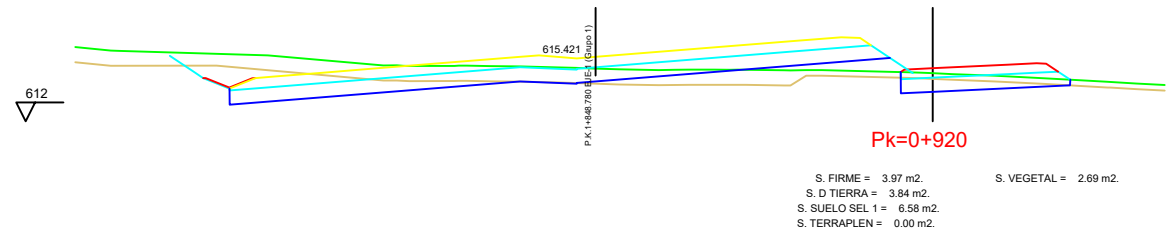
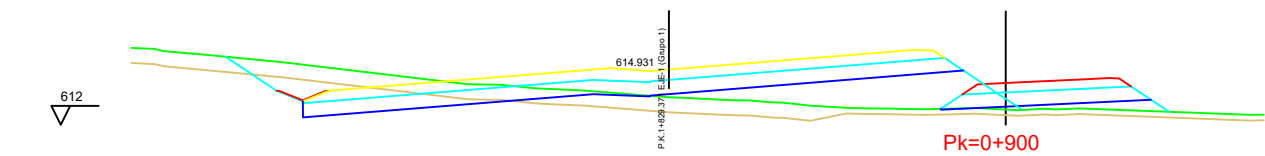
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

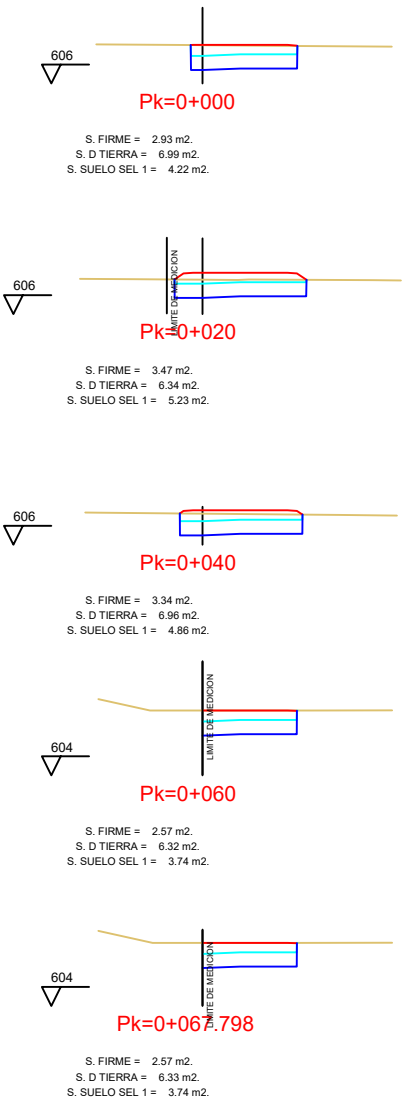
06-02.04

HOJA 48 DE 50

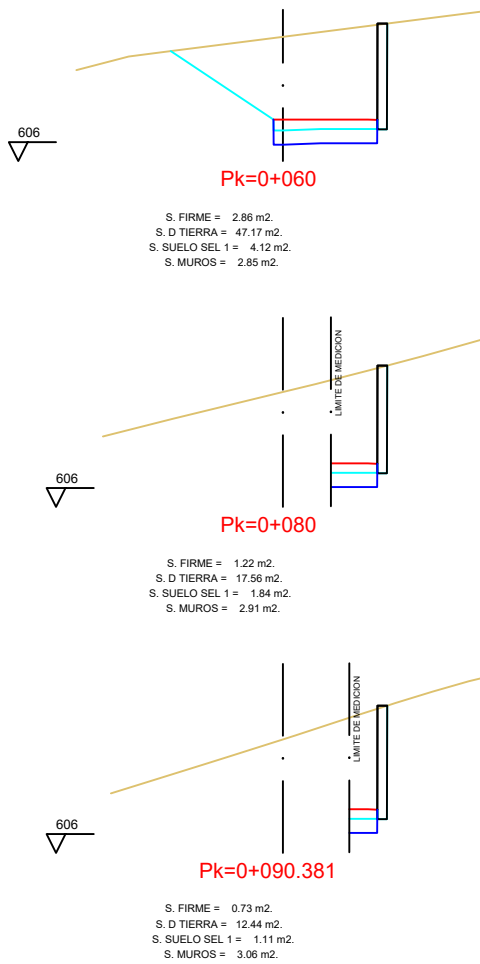
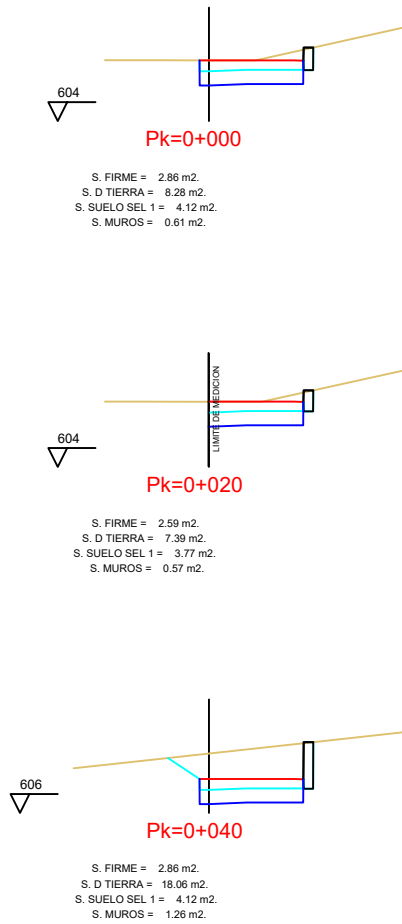
EJE 22  
PK 0+900 - 1+091,088



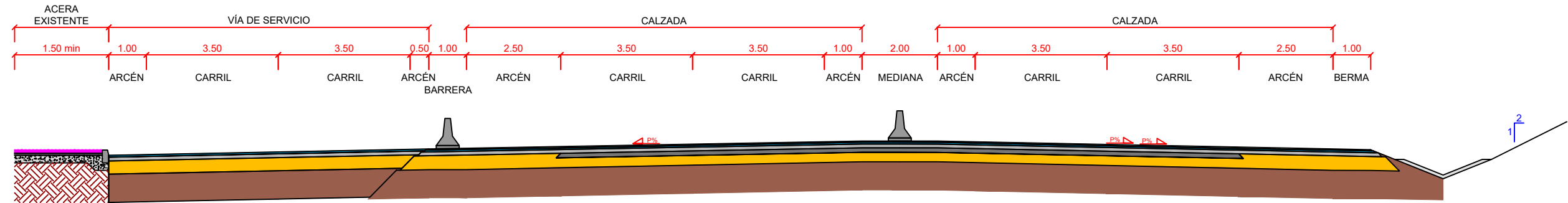
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PK 0+000 - 0+067,798



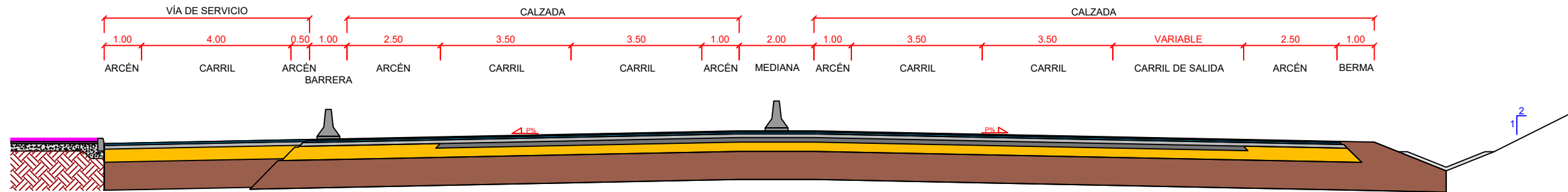
EJE 24  
PK 0+000 - 0+090,381



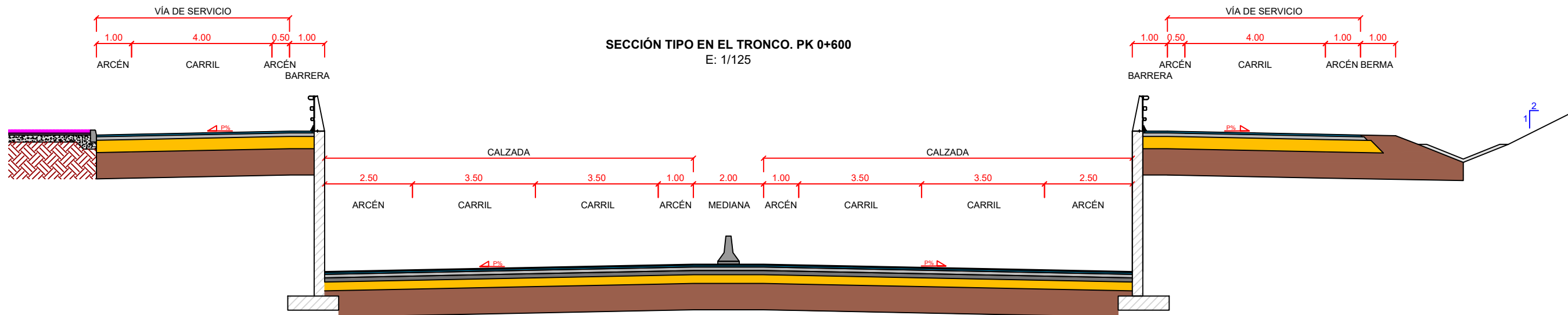




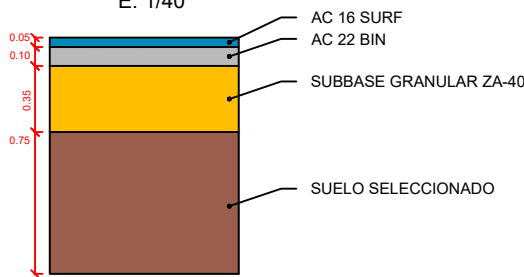
SECCIÓN TIPO EN EL TRONCO. PK 0+400  
E: 1/125



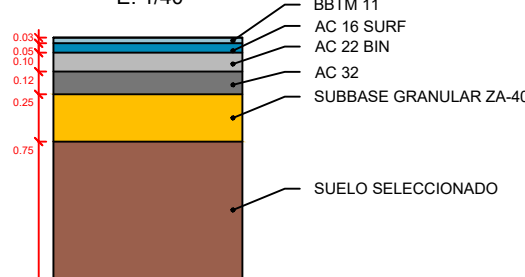
SECCIÓN TIPO EN EL TRONCO. PK 0+600  
E: 1/125



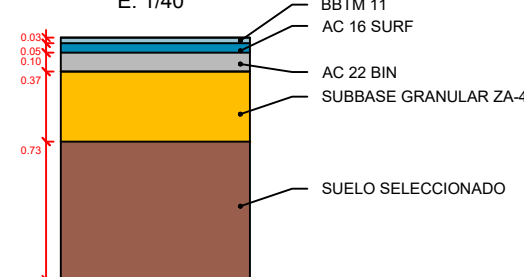
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



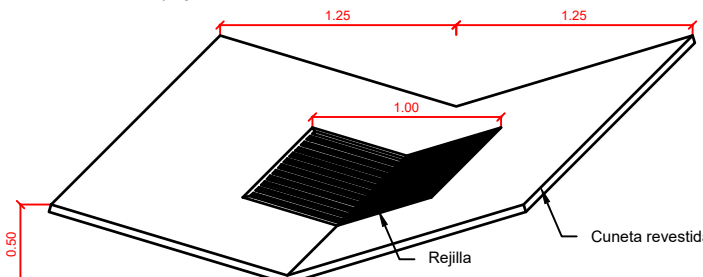
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



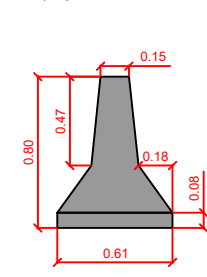
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



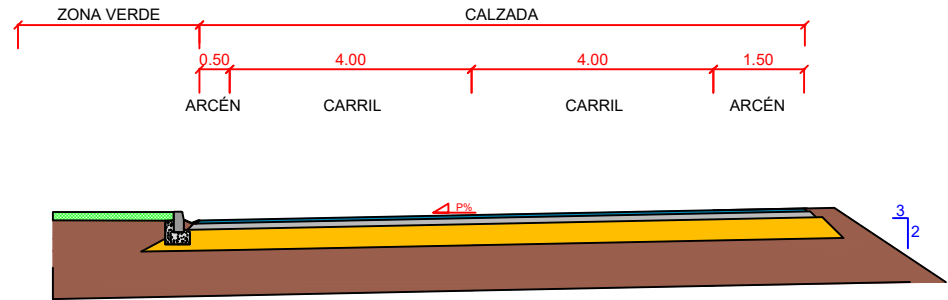
DETALLE CUNETA  
E: 1/40



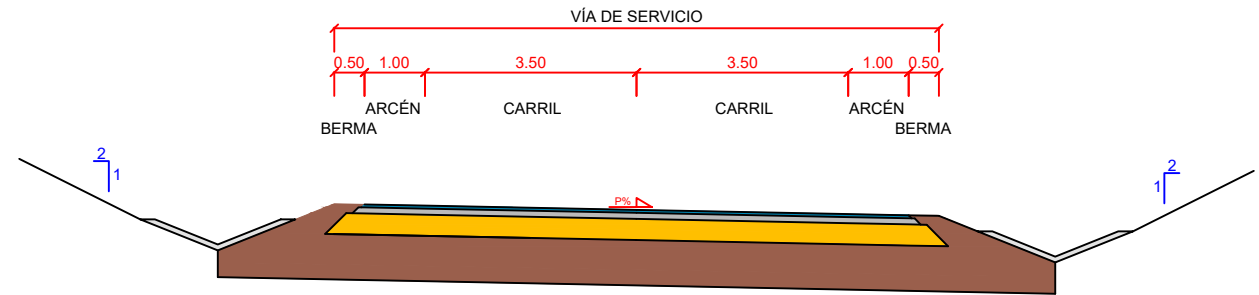
DETALLE DE NEW JERSEY  
E: 1/40



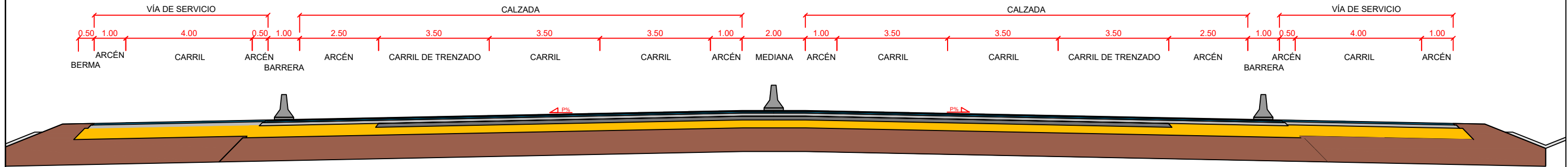
SECCIÓN TIPO GLORIETA UNIVERSIDAD  
E: 1/125



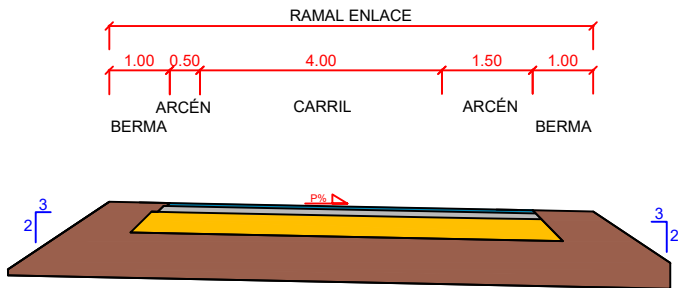
SECCIÓN TIPO VÍA ACCESO A UNIVERSIDAD  
E: 1/125



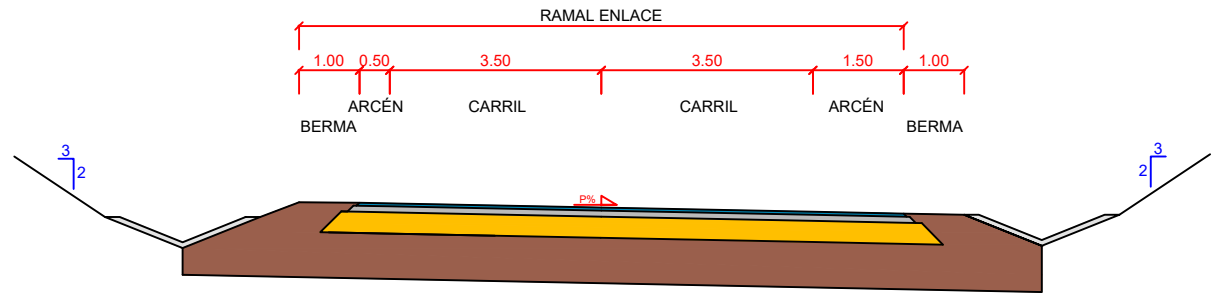
SECCIÓN TIPO EN EL TRONCO. PK 1+200  
E: 1/125



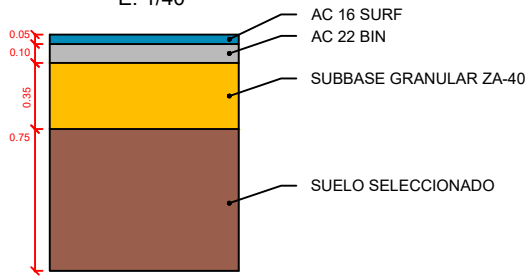
SECCIÓN TIPO EJE 20. PK 0+050  
E: 1/125



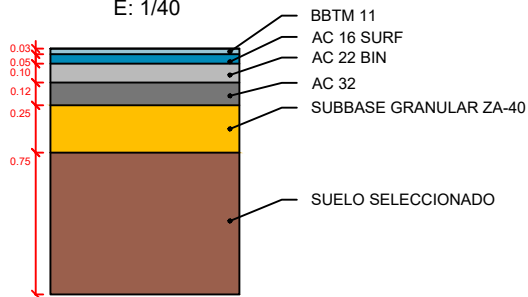
SECCIÓN TIPO EJE 22. PK 0+200  
E: 1/125



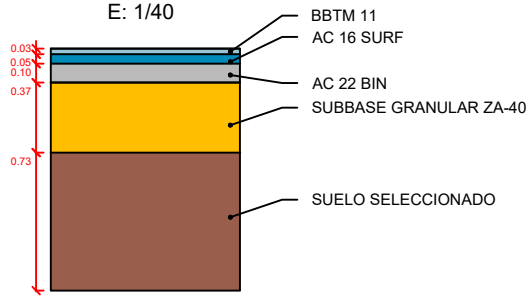
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



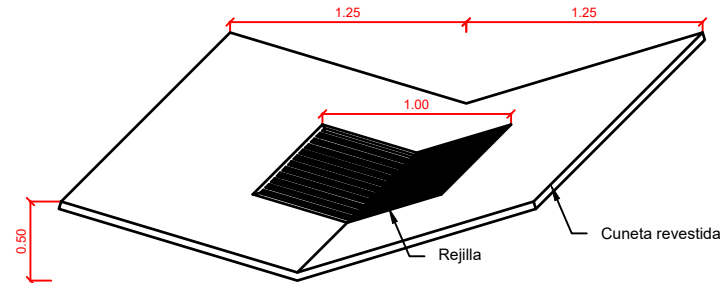
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



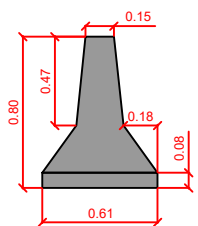
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



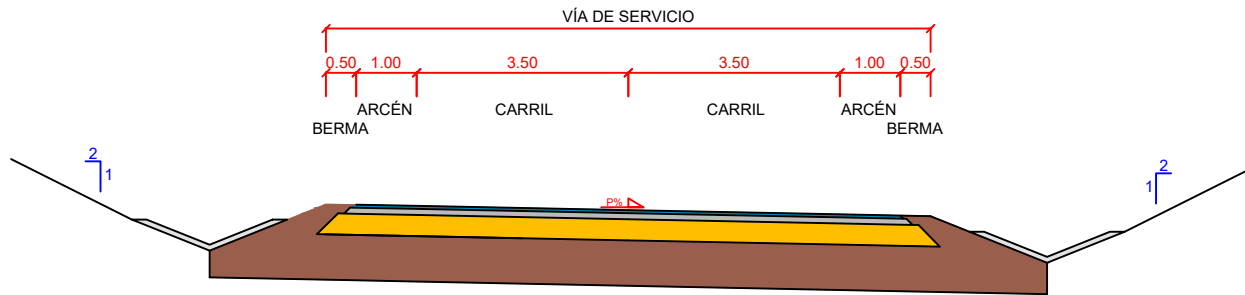
DETALLE CUNETA  
E: 1/40



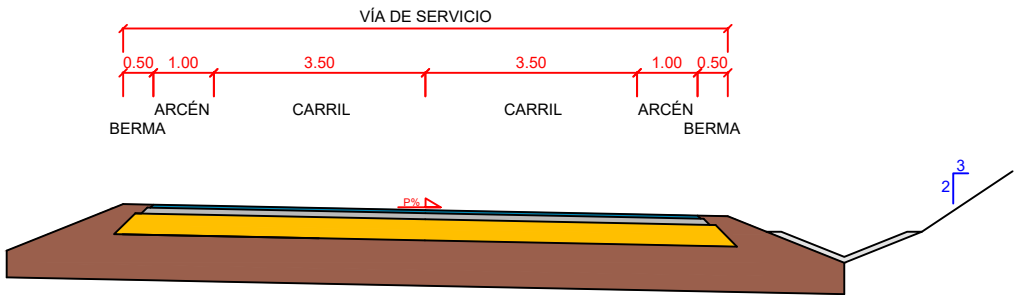
DETALLE DE NEW JERSEY  
E: 1/40



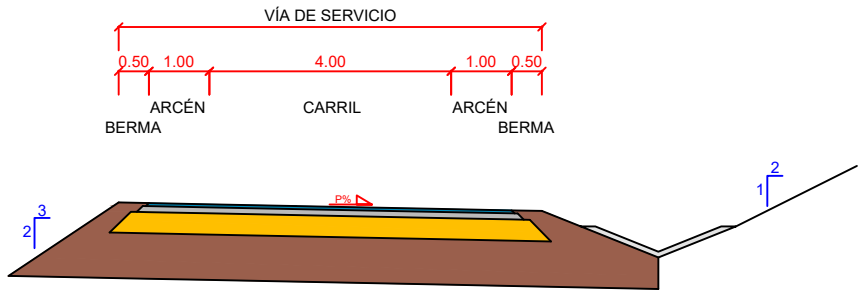
SECCIÓN TIPO VÍA ACCESO A PRISIONES  
E: 1/125



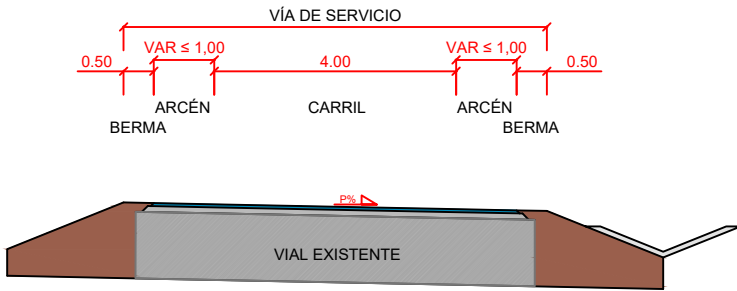
SECCIÓN TIPO EJE 27. PK 0+100  
E: 1/125



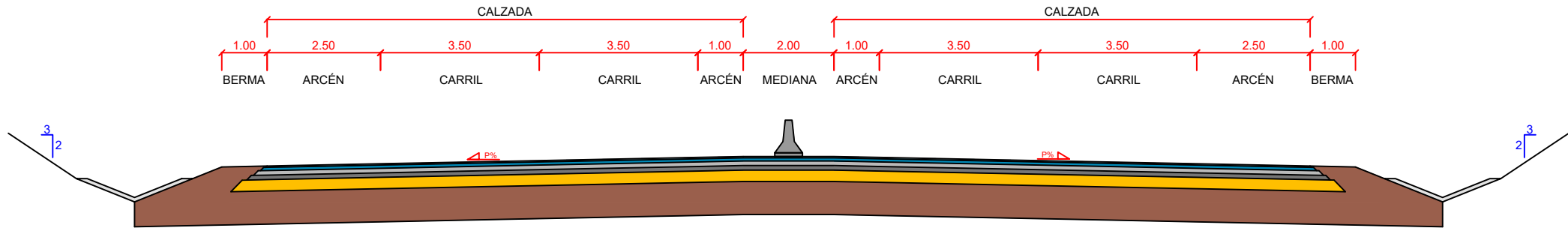
SECCIÓN TIPO EJE 19. PK 0+400  
E: 1/125



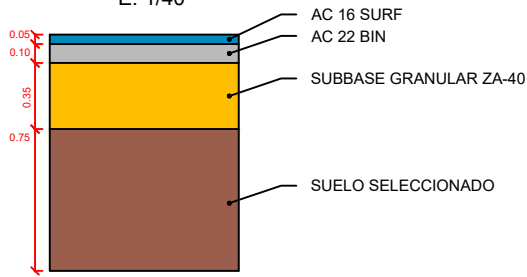
SECCIÓN TIPO EJE 7. PK 0+295  
E: 1/125



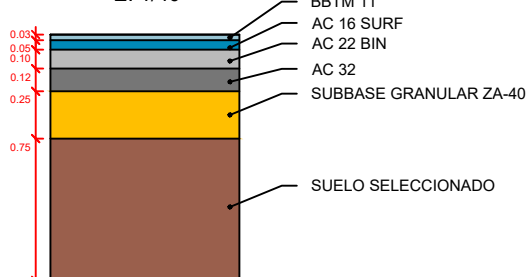
SECCIÓN TIPO EN EL TRONCO. PK 3+800  
E: 1/125



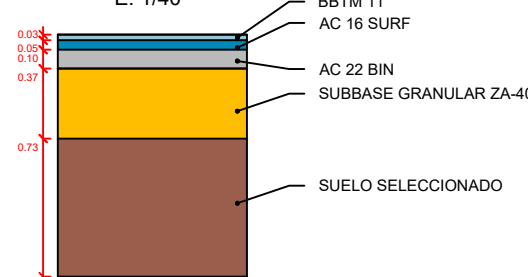
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



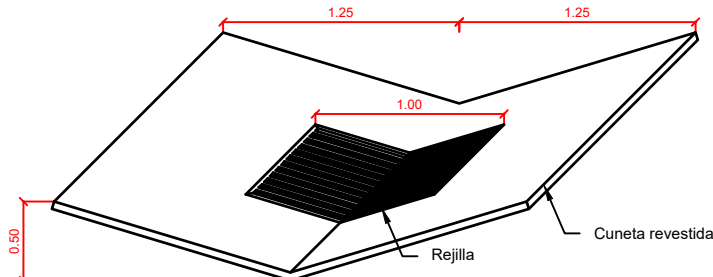
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



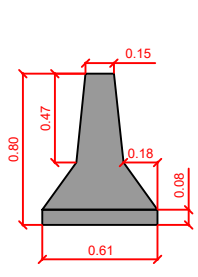
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40

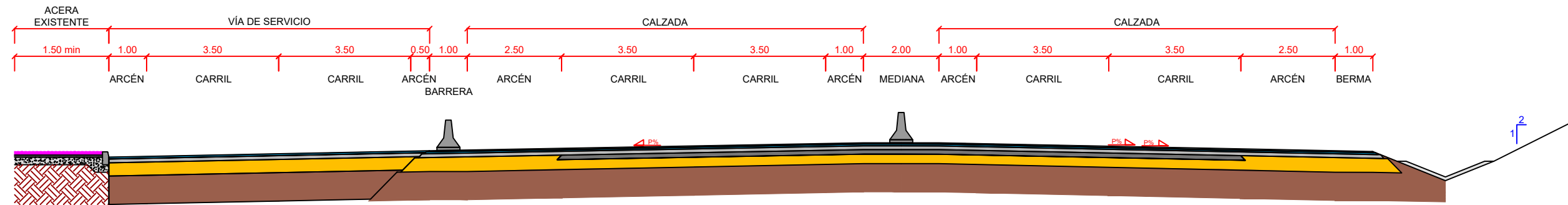


DETALLE CUNETA  
E: 1/40

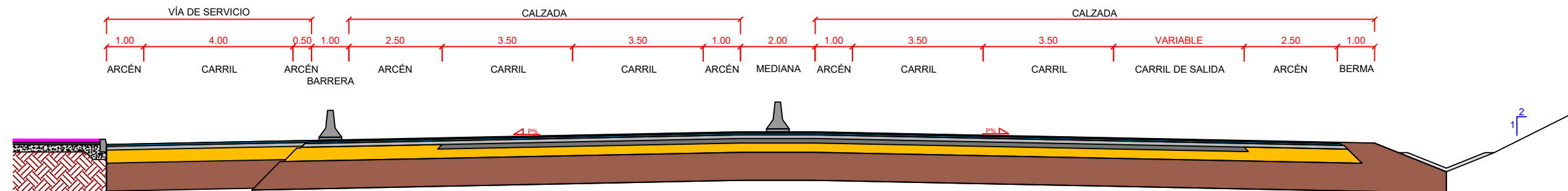


DETALLE DE NEW JERSEY  
E: 1/40

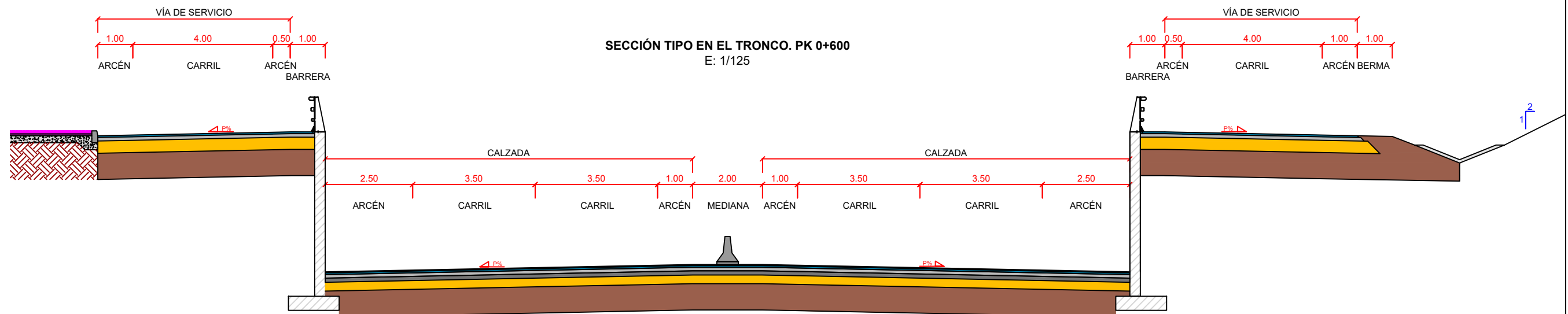




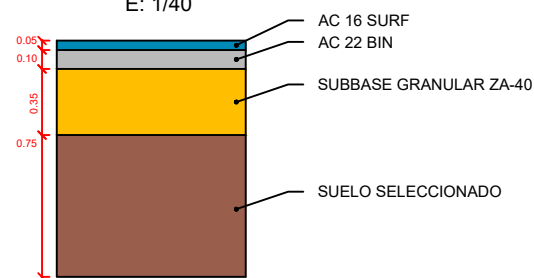
SECCIÓN TIPO EN EL TRONCO. PK 0+400  
E: 1/125



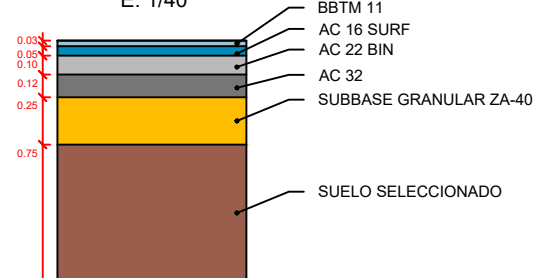
SECCIÓN TIPO EN EL TRONCO. PK 0+600  
E: 1/125



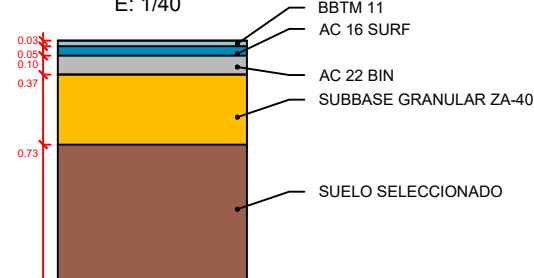
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



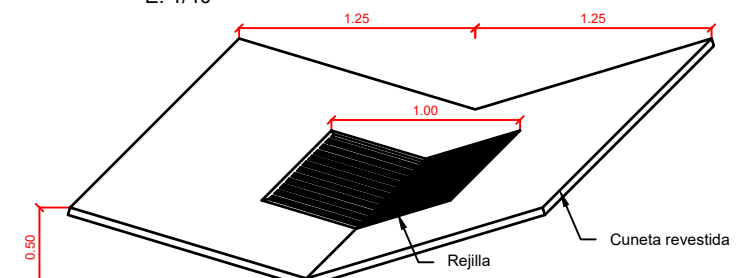
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



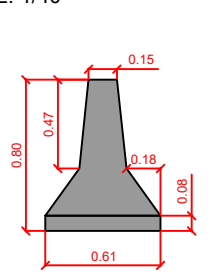
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



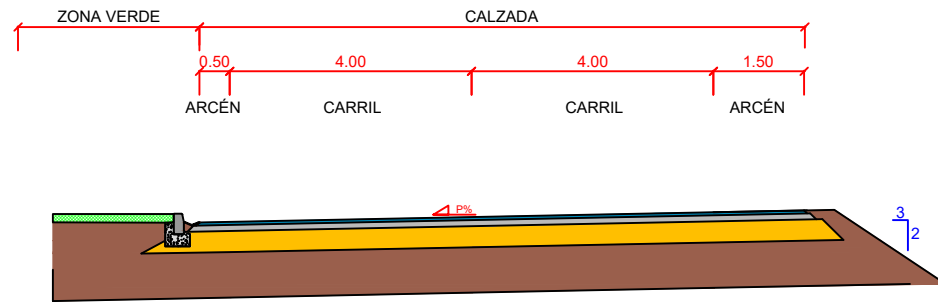
DETALLE CUNETA  
E: 1/40



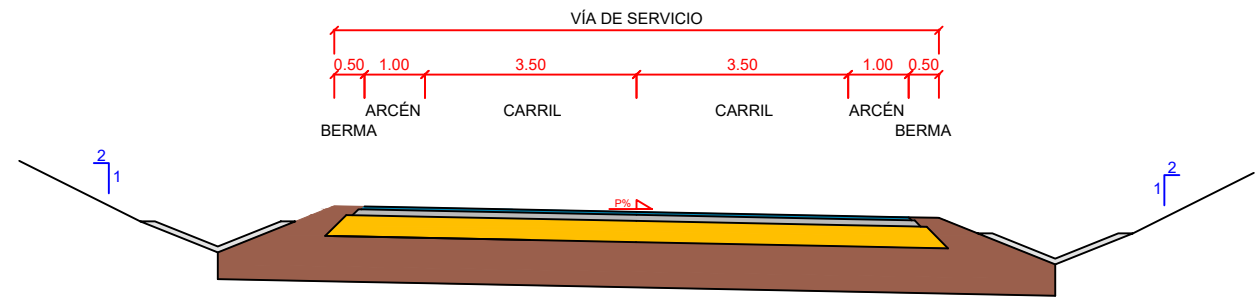
DETALLE DE NEW JERSEY  
E: 1/40



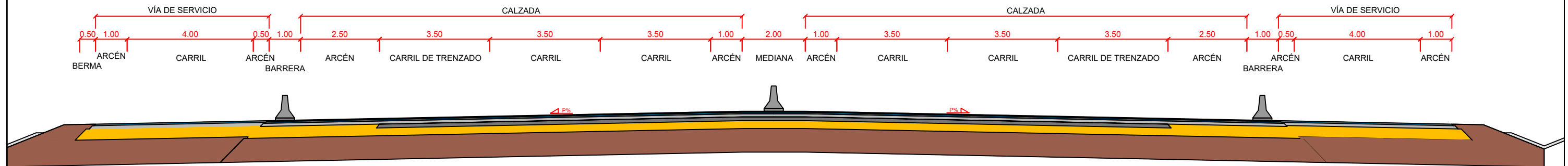
SECCIÓN TIPO GLORIETA UNIVERSIDAD  
E: 1/125



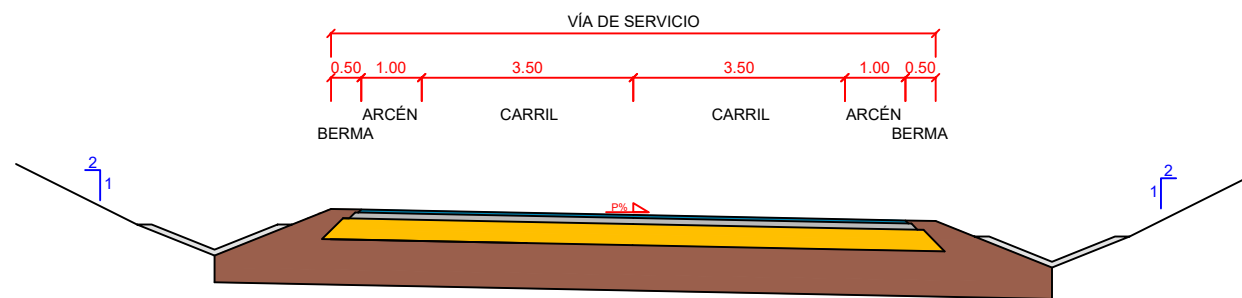
SECCIÓN TIPO VÍA ACCESO A UNIVERSIDAD  
E: 1/125



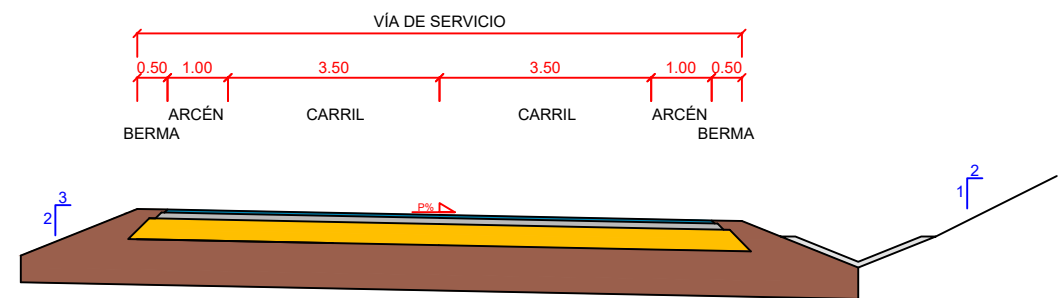
SECCIÓN TIPO EN EL TRONCO. PK 1+200  
E: 1/125



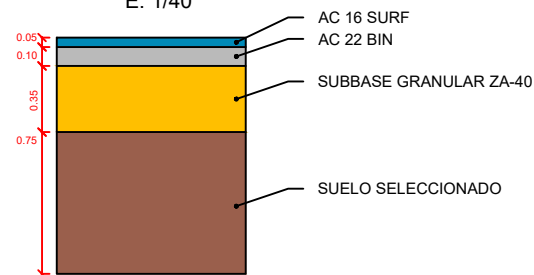
SECCIÓN TIPO EJE 24 PK 1+400  
E: 1/125



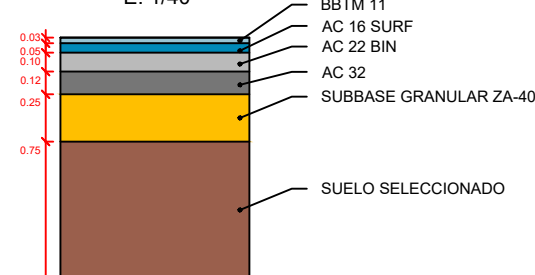
SECCIÓN TIPO EJE 27 PK 0+500  
E: 1/125



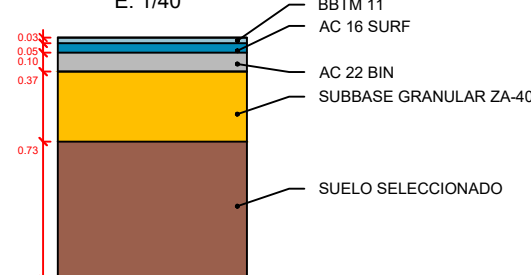
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



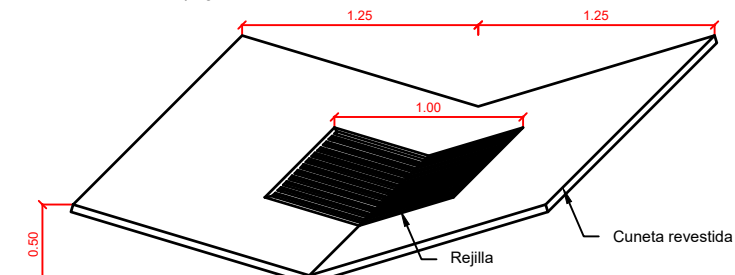
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



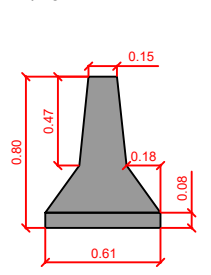
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



DETALLE CUNETA  
E: 1/40

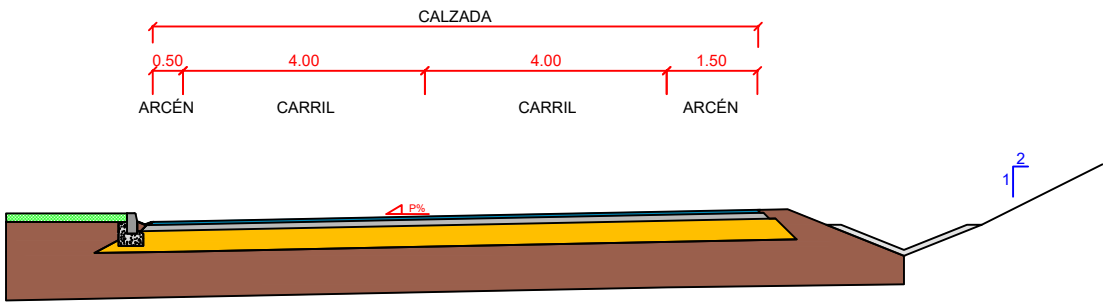


DETALLE DE NEW JERSEY  
E: 1/40

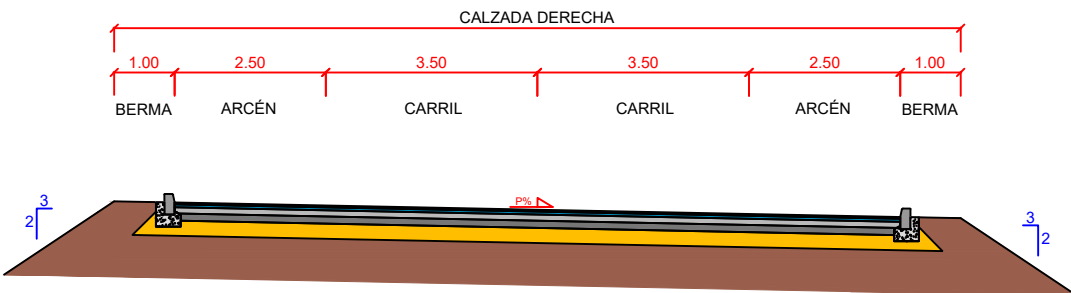




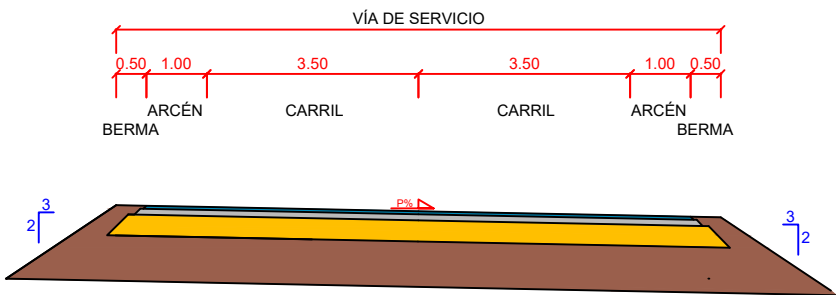
SECCIÓN TIPO GLORIETA PRISIONES  
E: 1/125



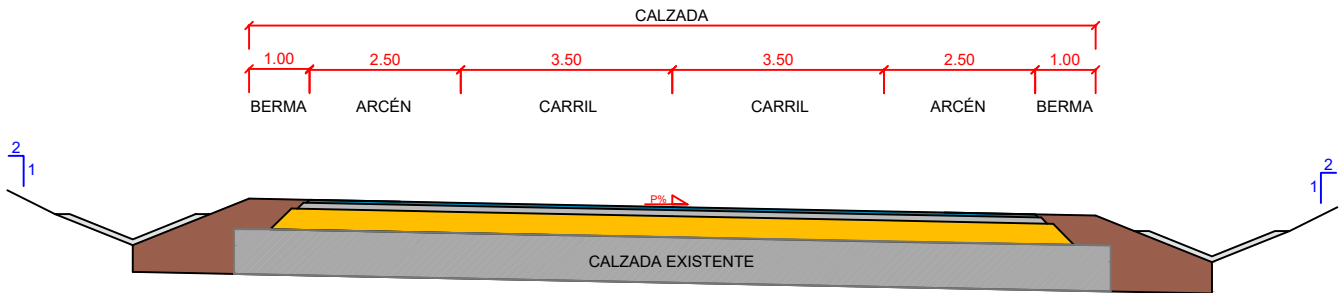
SECCIÓN TIPO EN EL TRONCO  
CALZADA DERECHA. PK 2+800  
E: 1/125



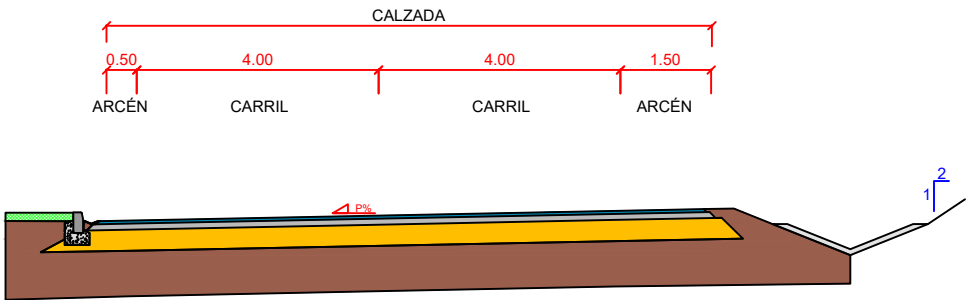
SECCIÓN TIPO EJE 35  
E: 1/125



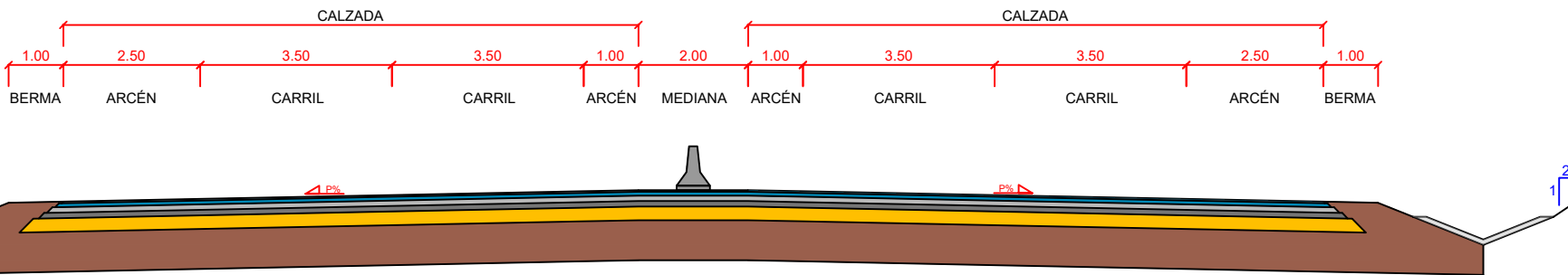
SECCIÓN TIPO TRONCO CALZADA  
IZQUIERDA EJE 38. PK 1+350  
E: 1/125



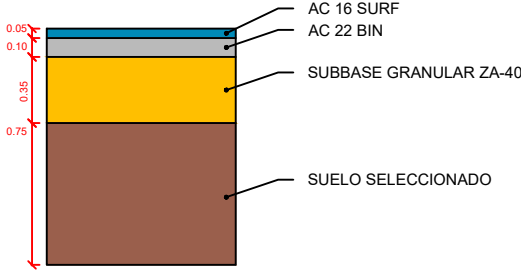
SECCIÓN TIPO GLORIETA EJE 37  
E: 1/125



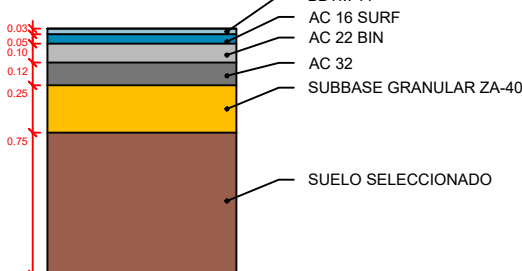
SECCIÓN TIPO EN EL TRONCO. PK 3+800  
E: 1/125



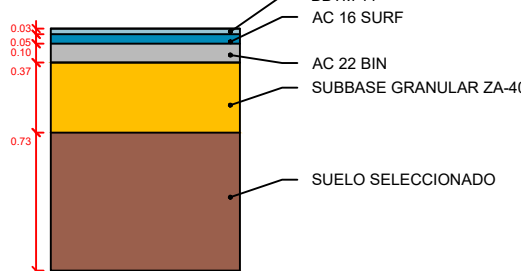
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



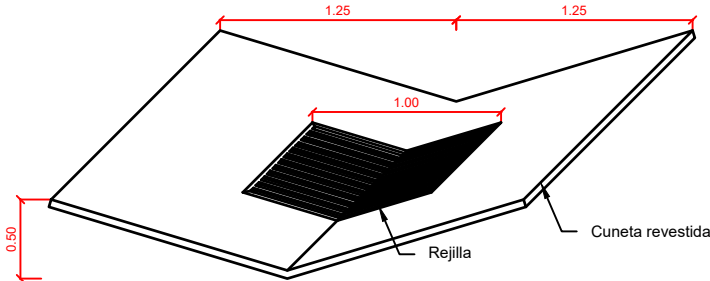
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



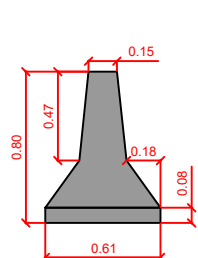
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40

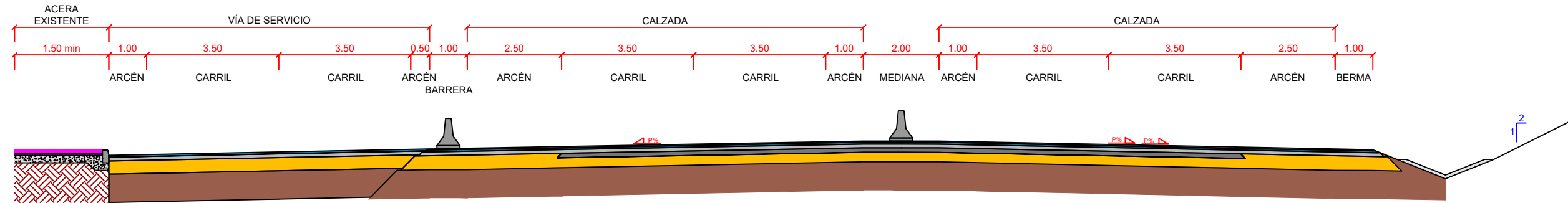


DETALLE CUNETA  
E: 1/40

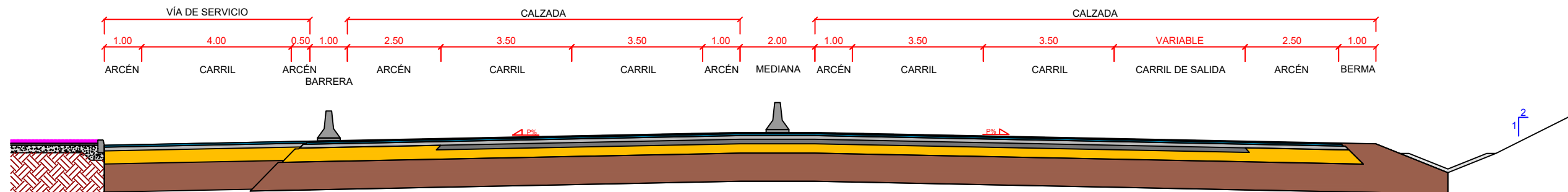


DETALLE DE NEW JERSEY  
E: 1/40

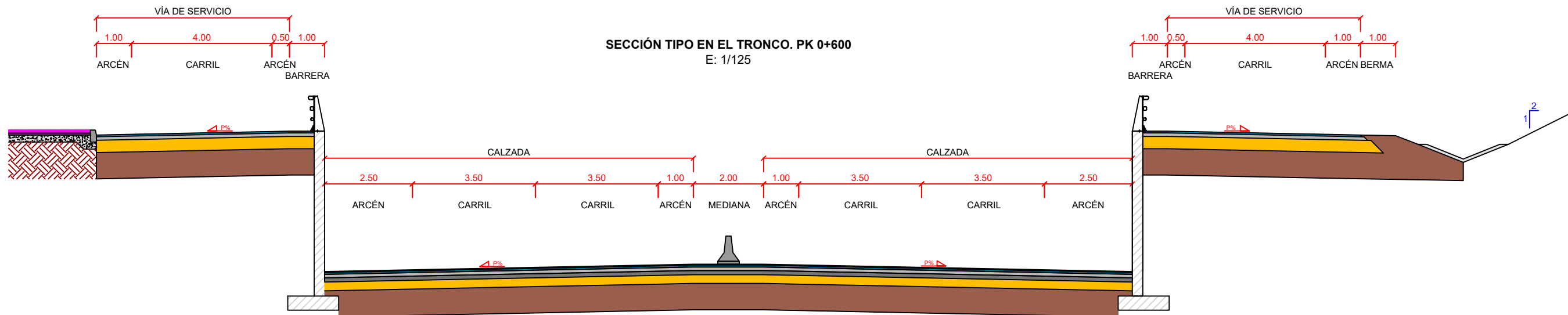




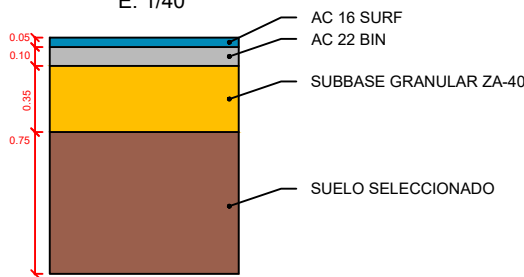
SECCIÓN TIPO EN EL TRONCO. PK 0+400  
E: 1/125



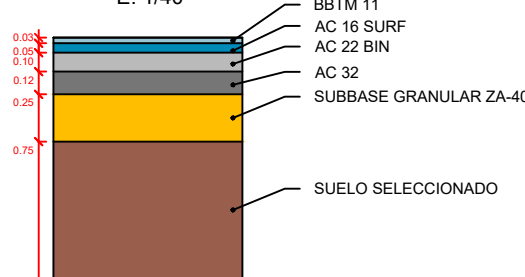
SECCIÓN TIPO EN EL TRONCO. PK 0+600  
E: 1/125



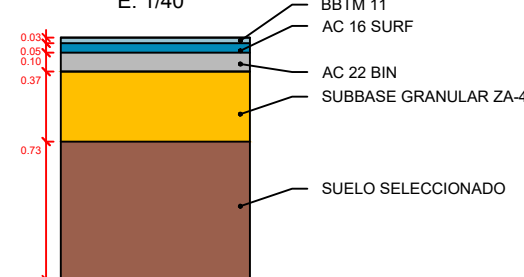
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



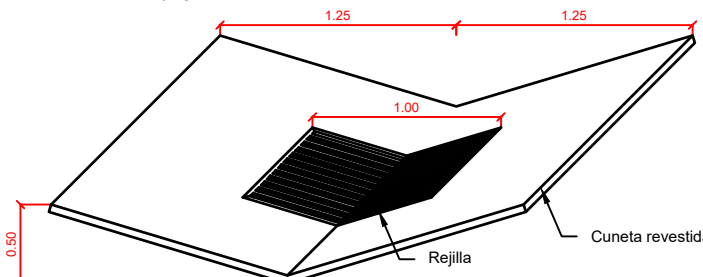
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



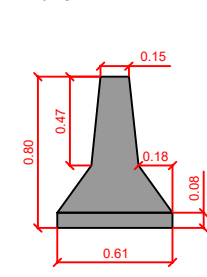
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



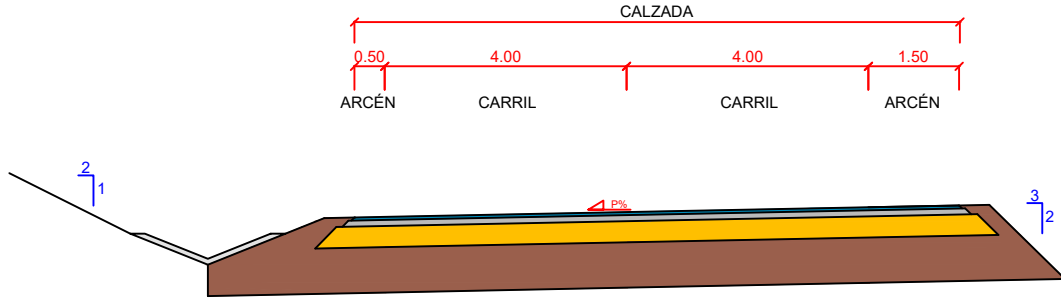
DETALLE CUNETA  
E: 1/40



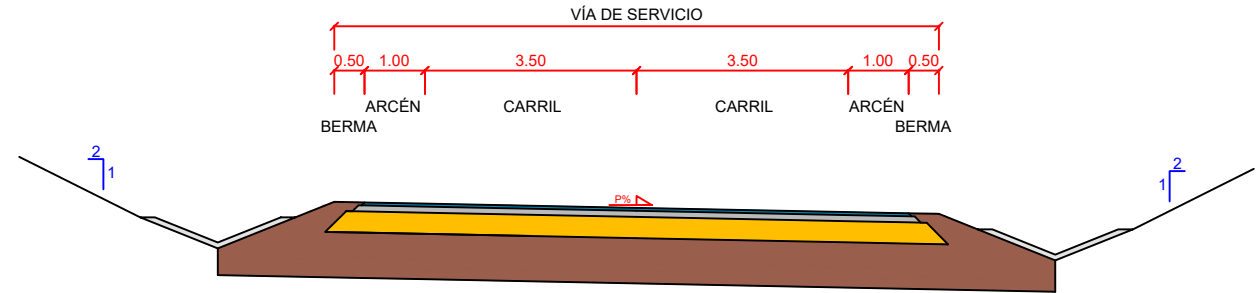
DETALLE DE NEW JERSEY  
E: 1/40



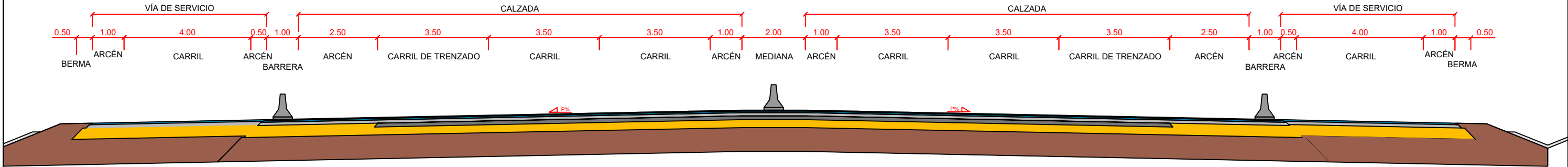
SECCIÓN TIPO GLORIETA UNIVERSIDAD  
E: 1/125



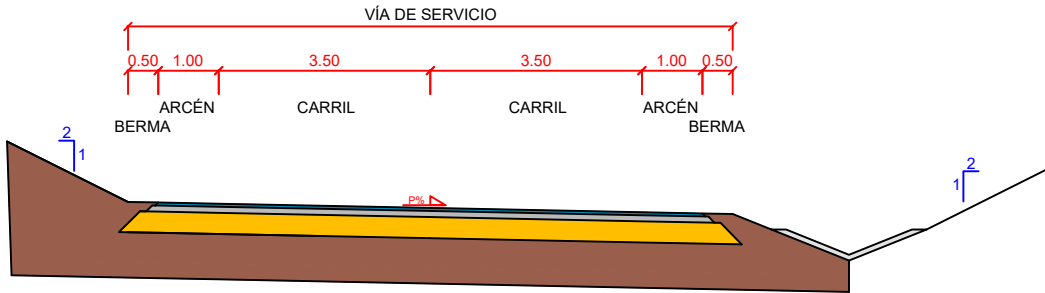
SECCIÓN TIPO VÍA ACCESO A UNIVERSIDAD  
E: 1/125



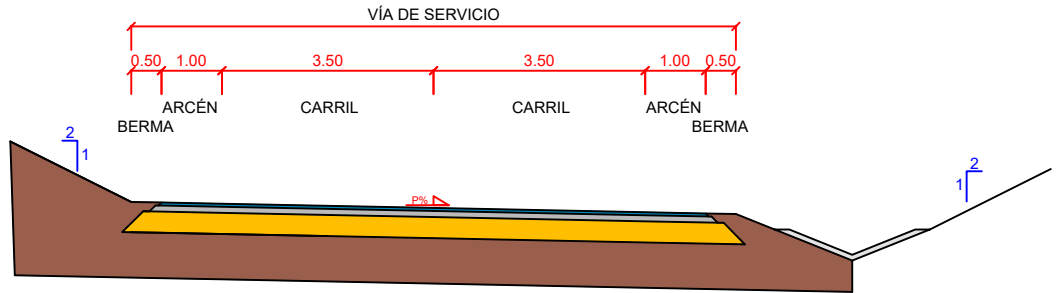
SECCIÓN TIPO EN EL TRONCO. PK 1+200  
E: 1/125



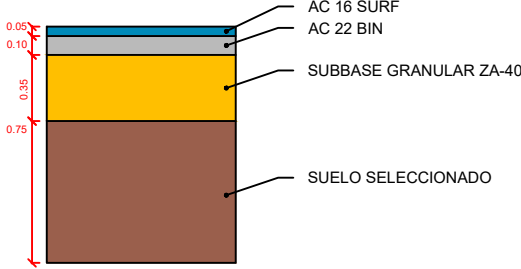
SECCIÓN TIPO EJE 24 PK 0+400  
E: 1/125



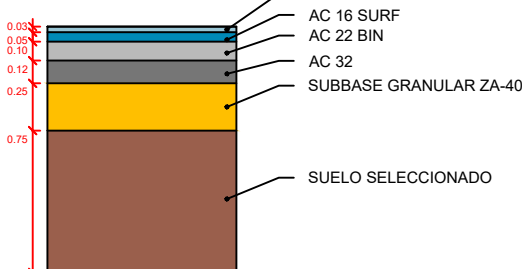
SECCIÓN TIPO EJE 27 PK 0+100  
E: 1/125



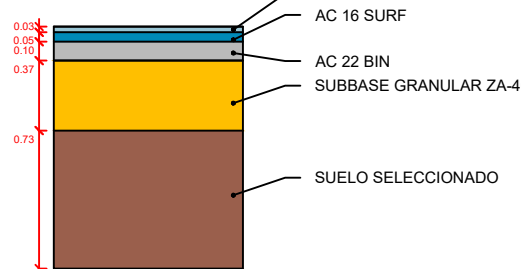
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



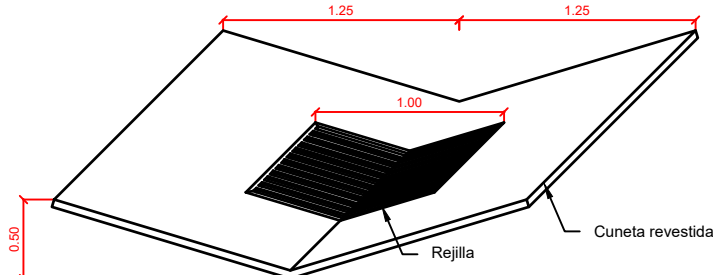
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



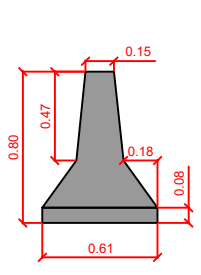
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



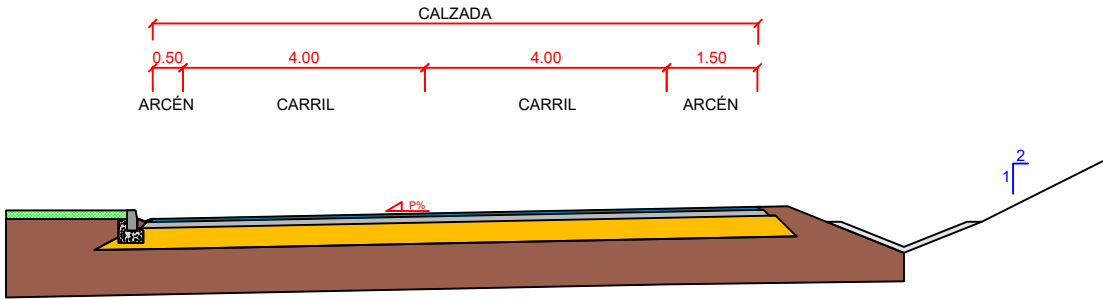
DETALLE CUNETA  
E: 1/40



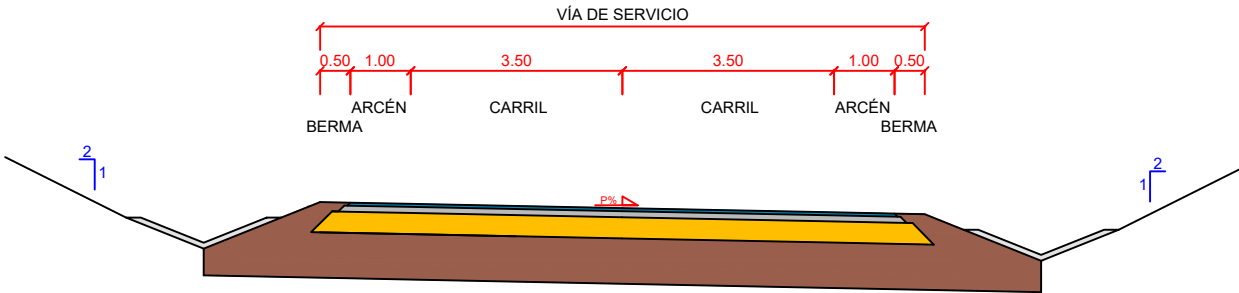
DETALLE DE NEW JERSEY  
E: 1/40



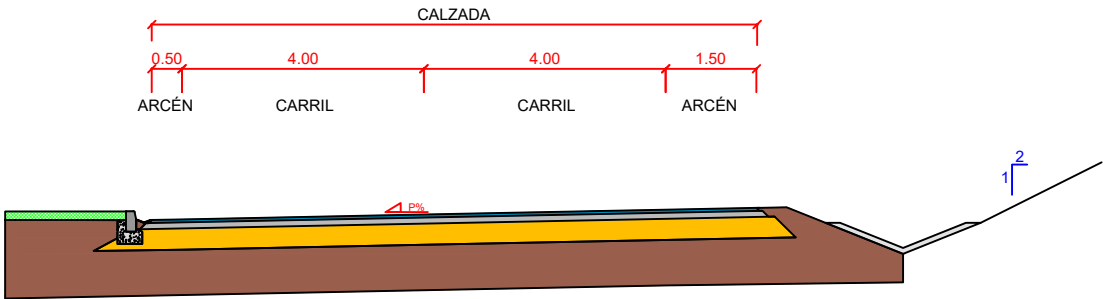
SECCIÓN TIPO GLORIETA EJE 28  
E: 1/125



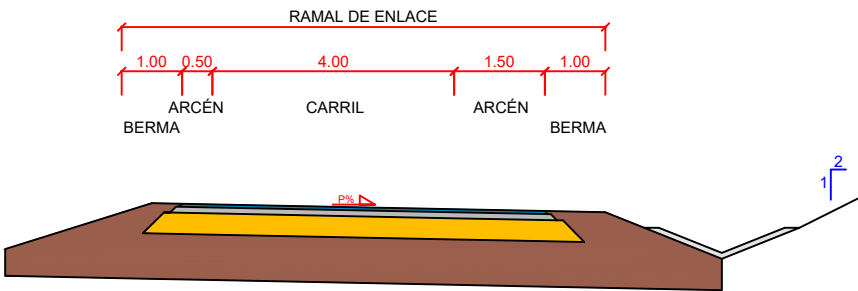
SECCIÓN TIPO EJE 26  
E: 1/125



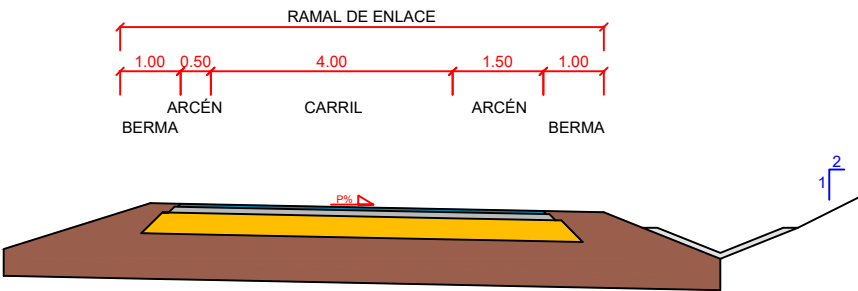
SECCIÓN TIPO GLORIETA EJE 29  
E: 1/125



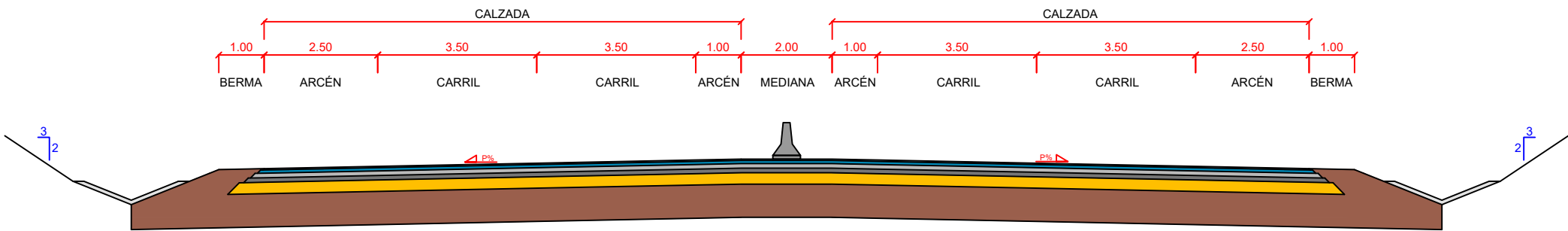
SECCIÓN TIPO EJE 30. PK 0+050  
E: 1/125



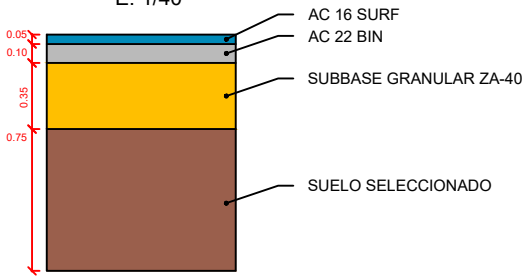
SECCIÓN TIPO EJE 25. PK 0+300  
E: 1/125



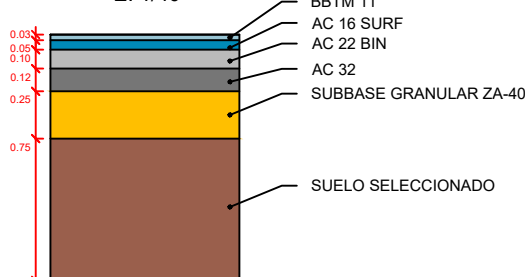
SECCIÓN TIPO EN EL TRONCO. PK 3+800  
E: 1/125



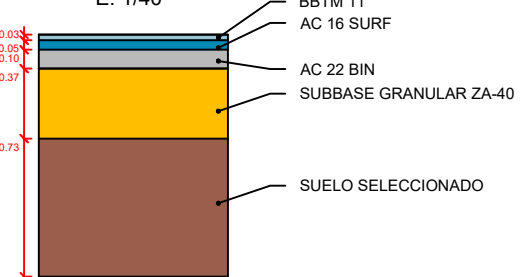
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



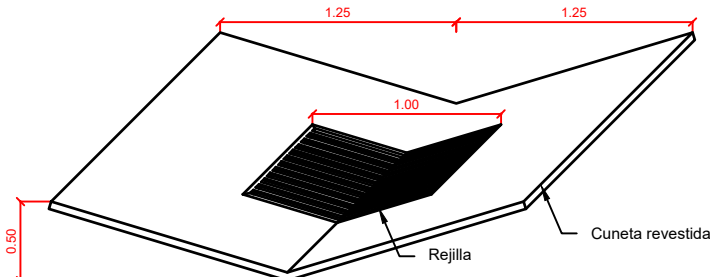
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



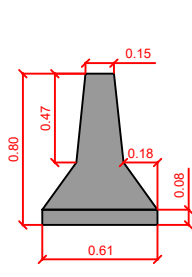
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40

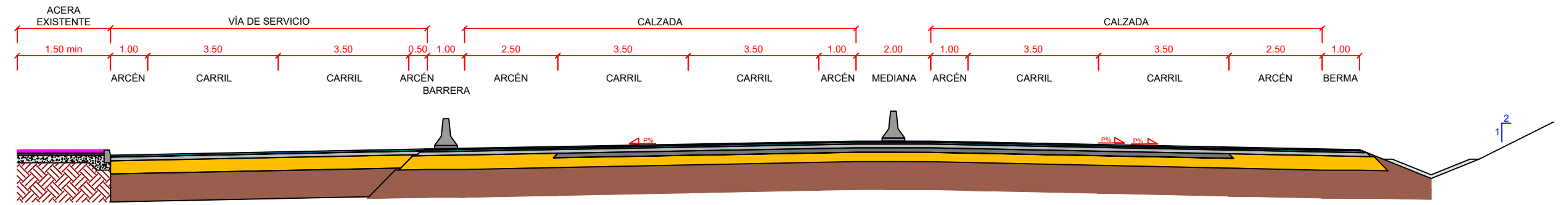


DETALLE CUNETA  
E: 1/40

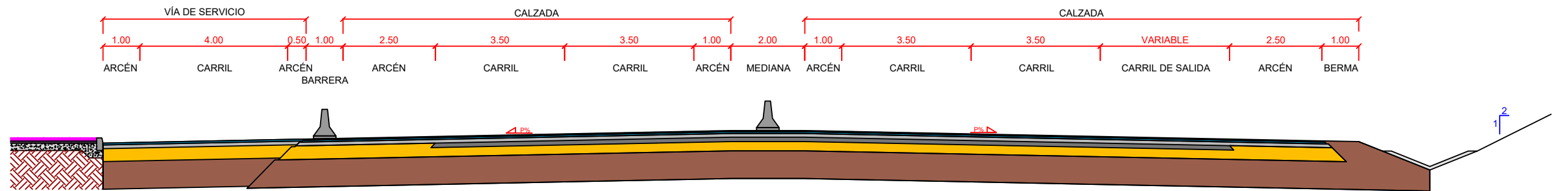


DETALLE DE NEW JERSEY  
E: 1/40

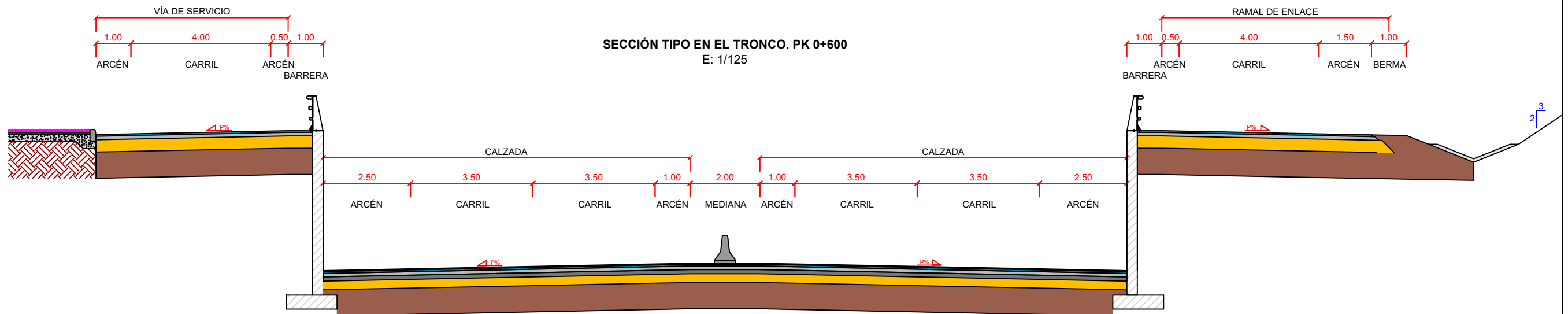




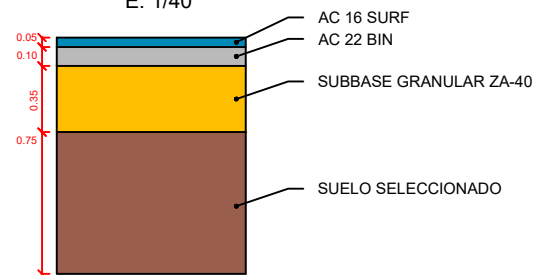
SECCIÓN TIPO EN EL TRONCO. PK 0+400  
E: 1/125



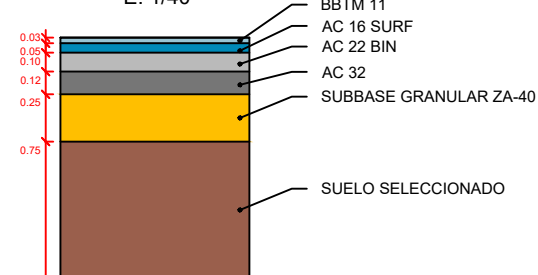
SECCIÓN TIPO EN EL TRONCO. PK 0+600  
E: 1/125



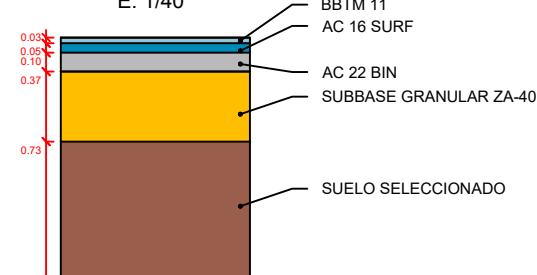
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



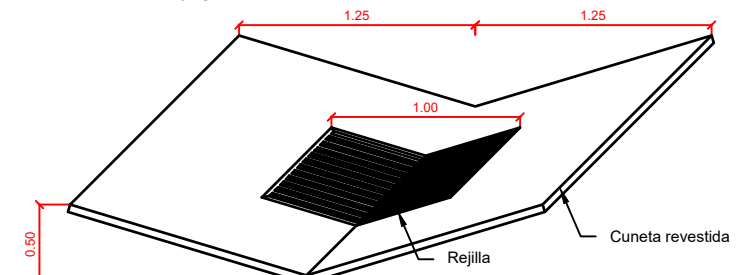
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



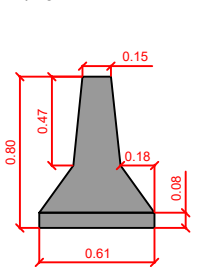
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



DETALLE CUNETA  
E: 1/40

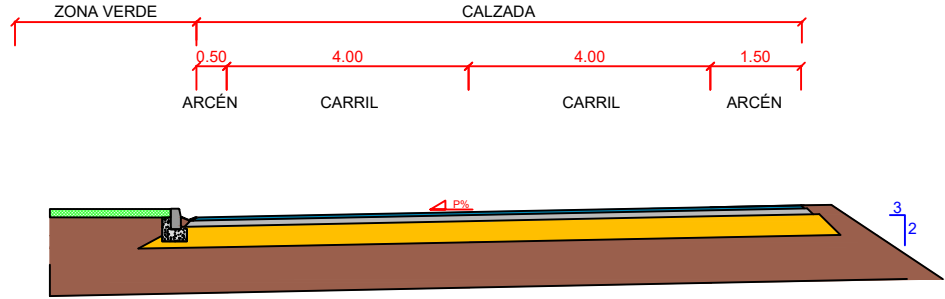


DETALLE DE NEW JERSEY  
E: 1/40

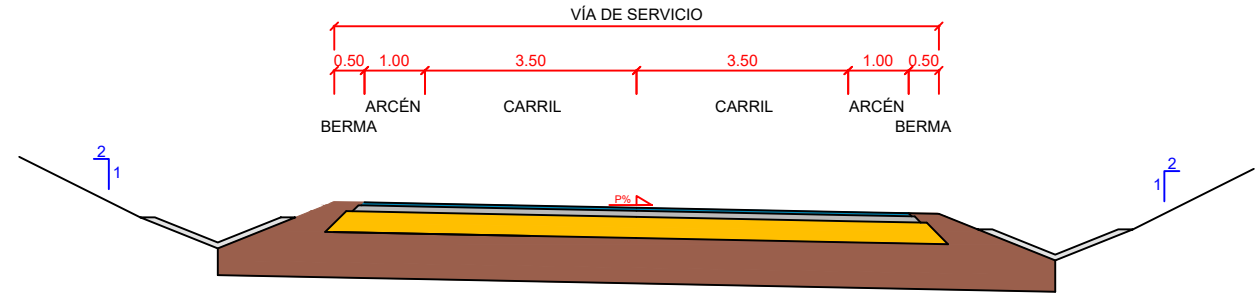




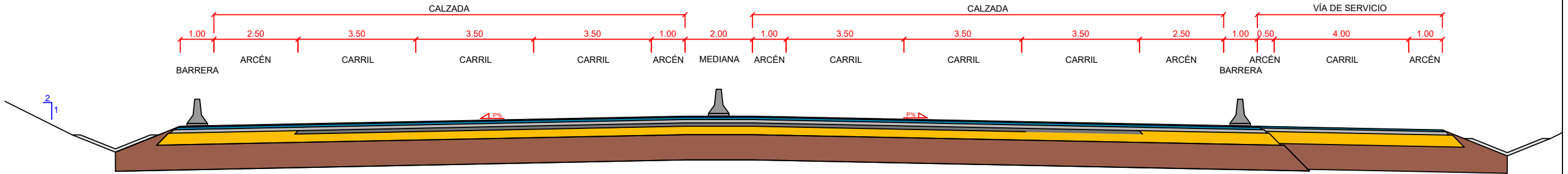
SECCIÓN TIPO GLORIETA UNIVERSIDAD  
E: 1/125



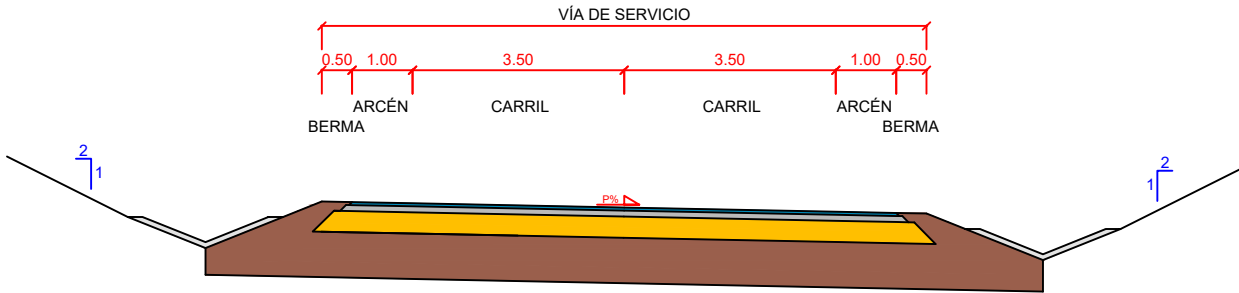
SECCIÓN TIPO VÍA ACCESO A UNIVERSIDAD  
E: 1/125



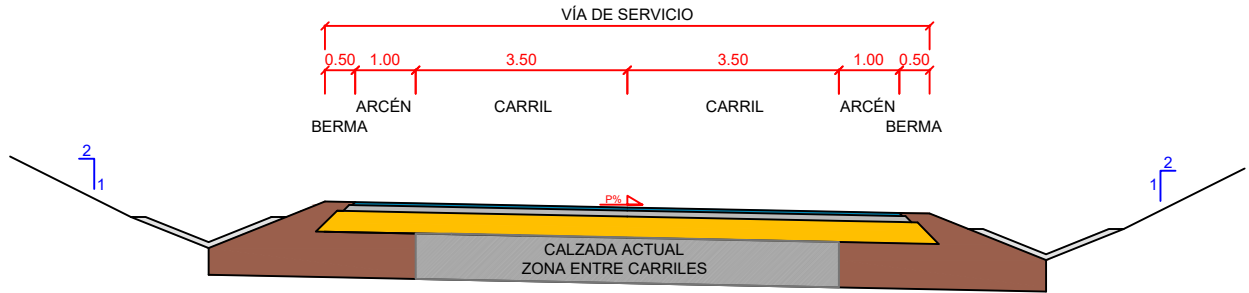
SECCIÓN TIPO EN EL TRONCO. PK 1+200  
E: 1/125



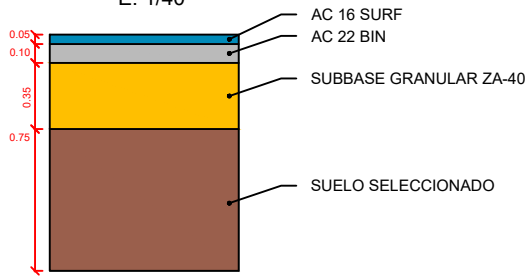
SECCIÓN TIPO VIAL ACCESO PRISIÓN CIVIL  
E: 1/125



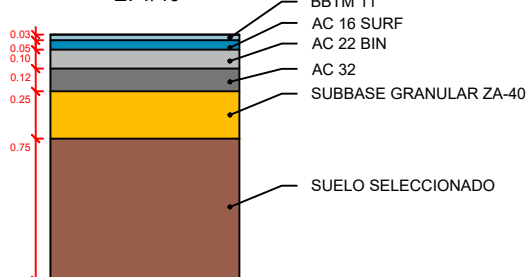
SECCIÓN TIPO VIAL ACCESO POLÍGONO INDUSTRIAL  
E: 1/125



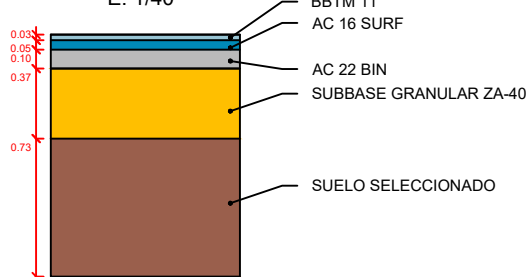
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



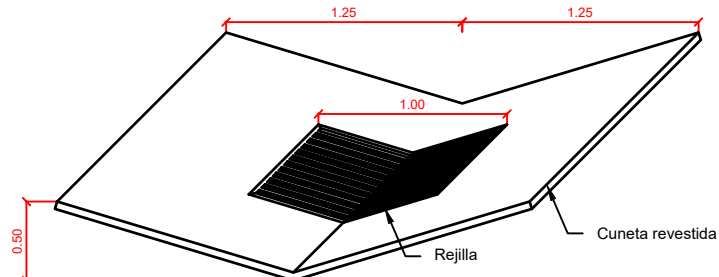
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



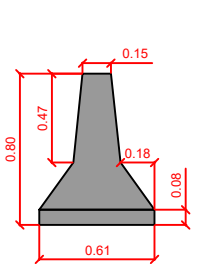
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



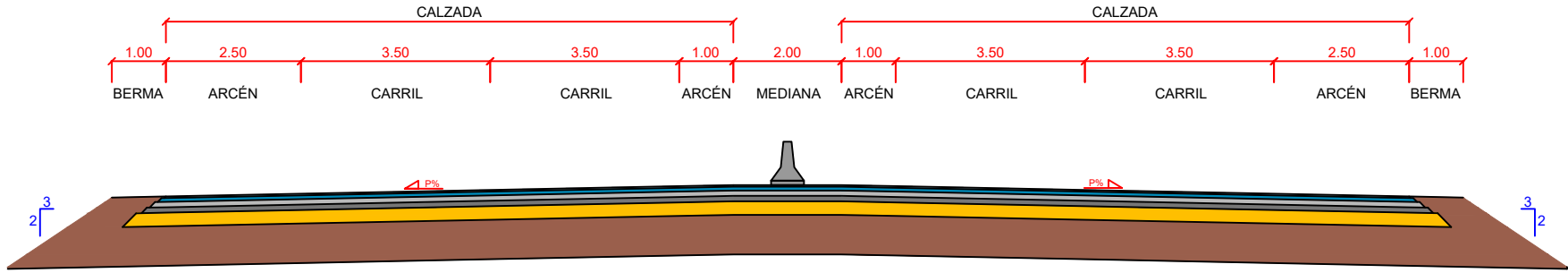
DETALLE CUNETA  
E: 1/40



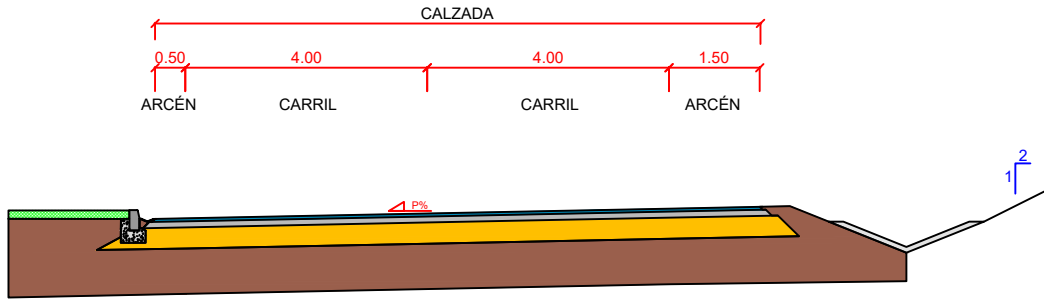
DETALLE DE NEW JERSEY  
E: 1/40



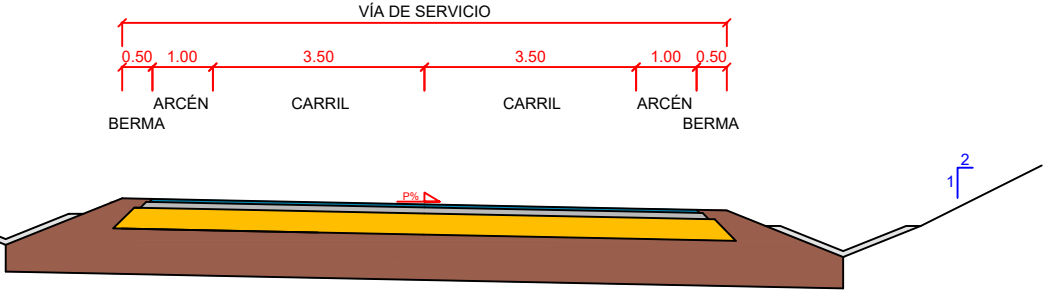
SECCIÓN TIPO EN EL TRONCO. PK 2+700  
E: 1/125



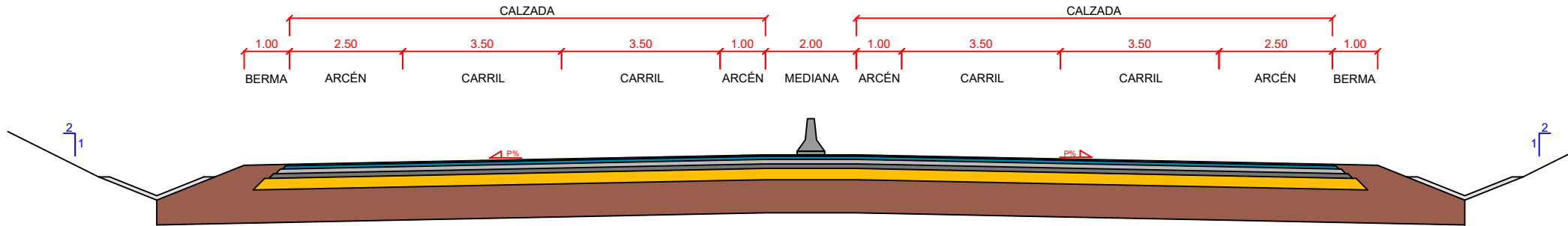
SECCIÓN TIPO GLORIETA ACCESOS A  
PRISIÓN MILITAR  
E: 1/125



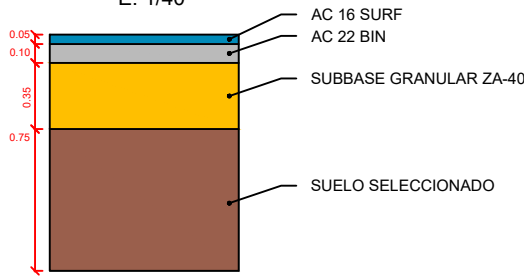
SECCIÓN TIPO ENLACE 2 - ACCESOS A DEPÓSITOS  
E: 1/125



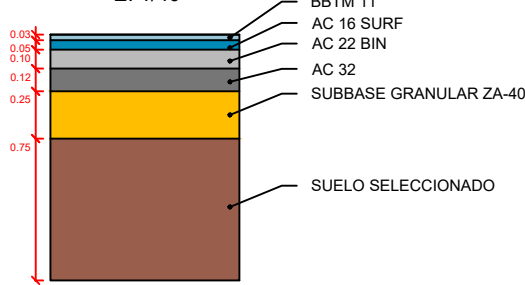
SECCIÓN TIPO EN EL TRONCO. PK 3+800  
E: 1/125



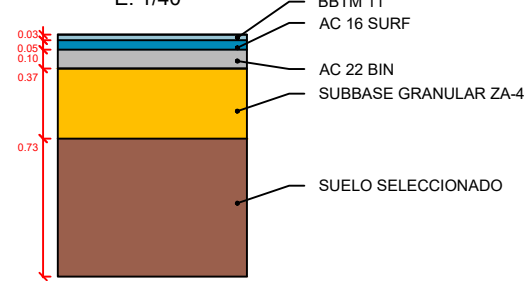
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



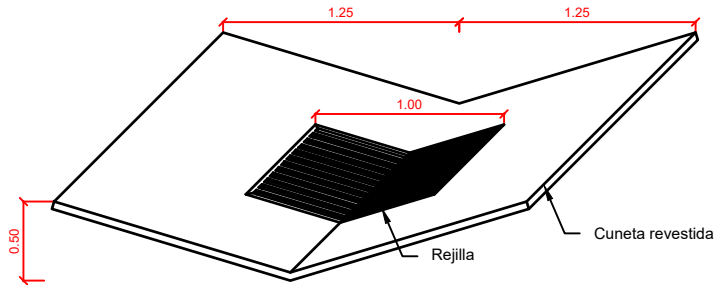
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



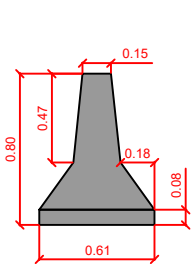
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



DETALLE CUNETA  
E: 1/40



DETALLE DE NEW JERSEY  
E: 1/40



PLANTA TIPO DE DÁRSENA PARA PARADA DE AUTOBÚS  
E: 1/200

60.00  
20.00  
20.00  
20.00  
ARCÉN  
M2-6  
M2-6  
ANCHO DE ARCÉN  
3.50  
1.50  
2.00  
11.00  
9.00  
DETALLE  
M1-7  
BUS  
BUS

**DETALLE**  
**E: 1/75**

Baldosa táctil de acanaladura

Baldosa táctil de botones

0,40

1,50

2,00

1,20

9,00

0,80

0,40

1,00

PLATAFORMA

ACERA

MARQUESINA  
4,00m x 1,60 m

Baldosa de 4 pastillas gris

Baldosa de 4 pastilla negra

### SECCIÓN TIPO ACERA

E: 1/25

The diagram illustrates the cross-section of a sidewalk (Acera) with the following layers and components:

- Baldosa de hormigón prefabricado 60x40x7 cm**: Prefabricated concrete slabs.
- Bordillo**: The curb or edge of the sidewalk.
- Base HM-20 de 18 cm**: A 18 cm thick base layer of concrete (HM-20).
- Mortero de cemento M-40 3-5 cm de espesor**: A 3-5 cm thick layer of cement mortar (M-40).
- EXPLANADA EXISTENTE**: The existing ground surface, indicated by a red hatched pattern.
- ACERA**: The total width of the sidewalk, indicated by a dimension line at the bottom.

**PLANTA MARQUESINA**  
**E: 1/75**

Ø1.35

1.20 MÍNIMO

0.80

1.20

0.40

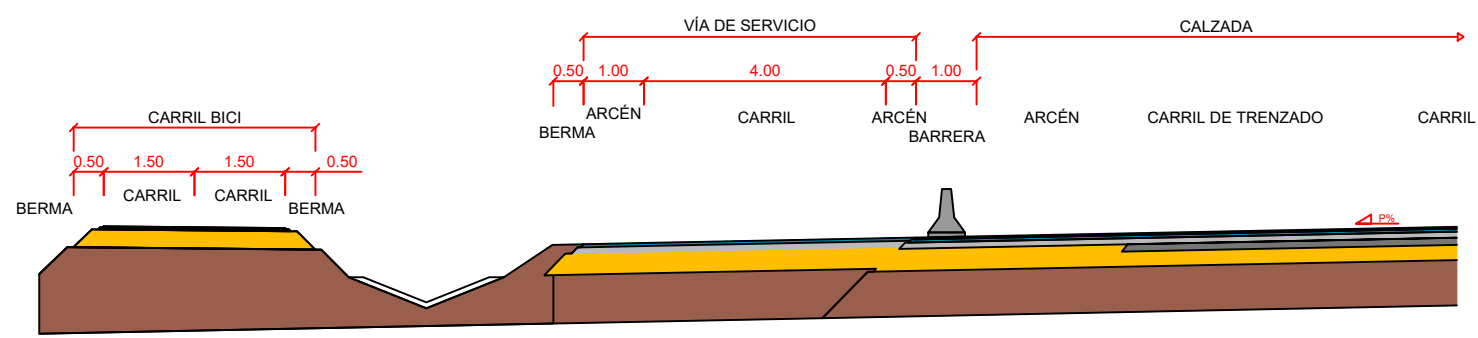
TODO ANCHO DE LA ACERA

0.40

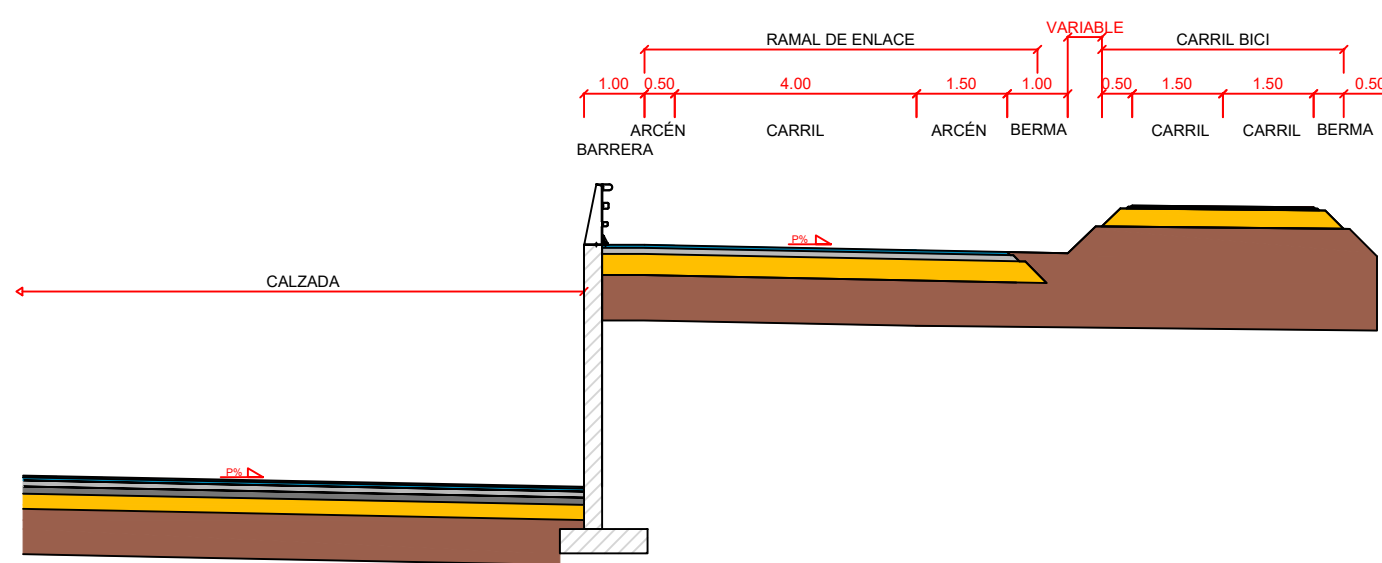
ALZADO MARQUESINA  
E: 1/75

The drawing is a technical architectural elevation of a bus shelter. It features a prominent red color for the structural elements: the roof, the vertical support posts, and the horizontal frame. The shelter is divided into three main sections by vertical posts. The left and middle sections are filled with light blue, representing glass panels. The right section is open, showing a metal frame for a ramp or stairs. Inside the shelter, there is a bench with four rectangular seats. The entire structure is set against a plain white background, with a simple ground line at the bottom.

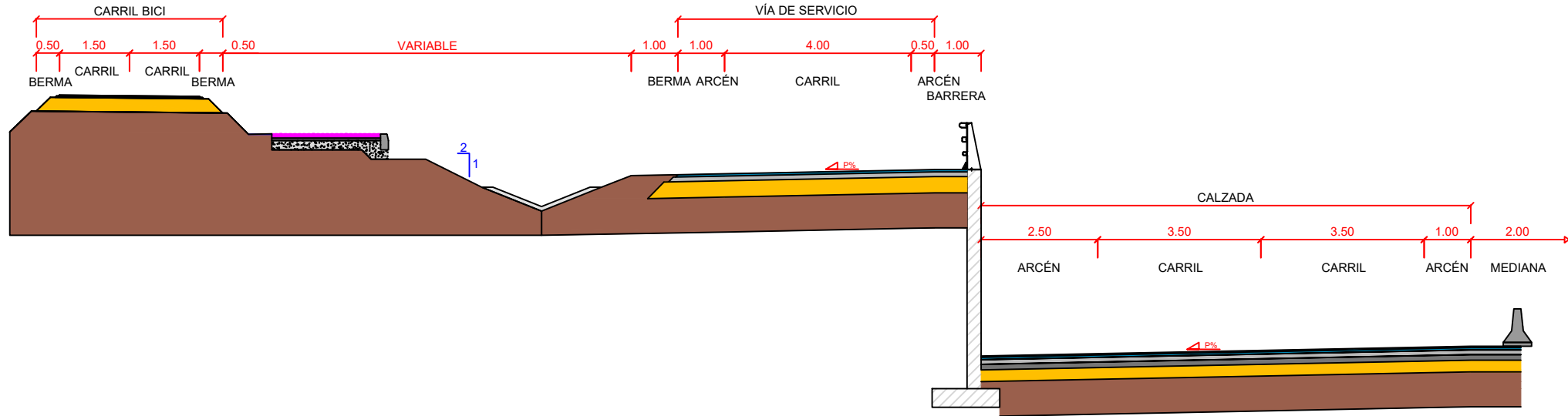
SECCIÓN CARRIL BICI PK 1+370  
E: 1/125



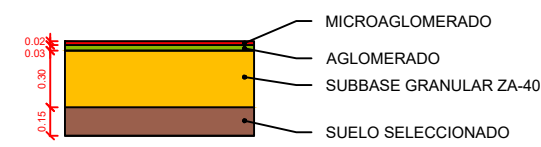
SECCIÓN TIPO CARRIL BICI PK 0+610  
E: 1/125

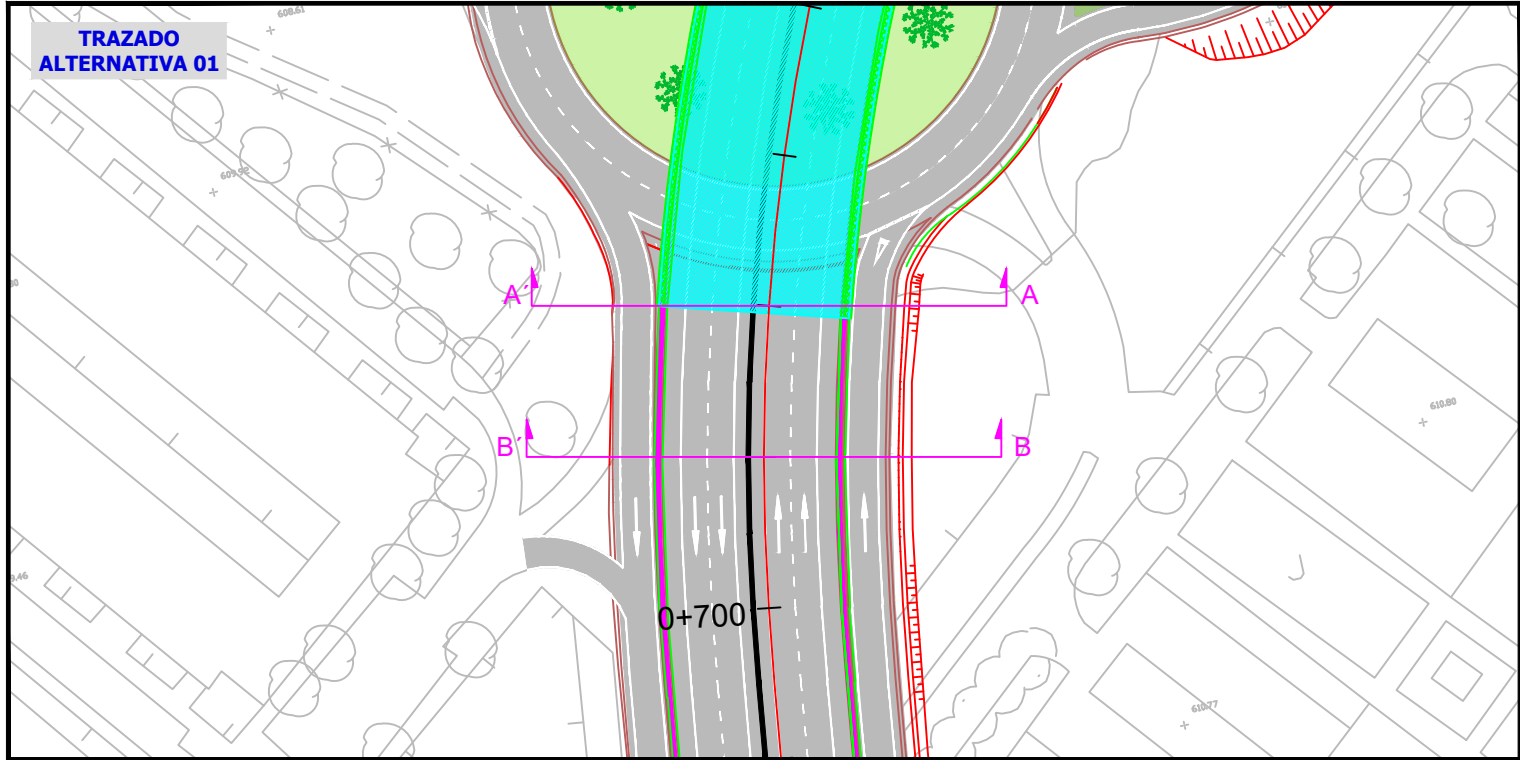


SECCIÓN TIPO CARRIL BICI. PK 1+020  
E: 1/125

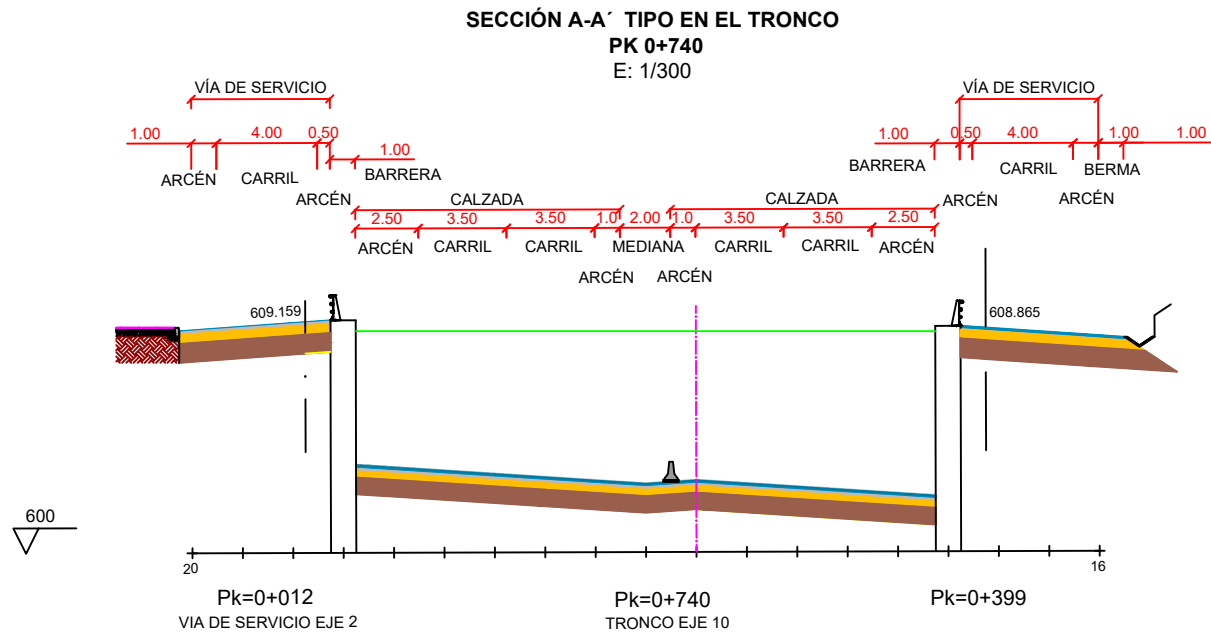


DETALLE PAVIMENTO CARRIL BICI  
E: 1/40

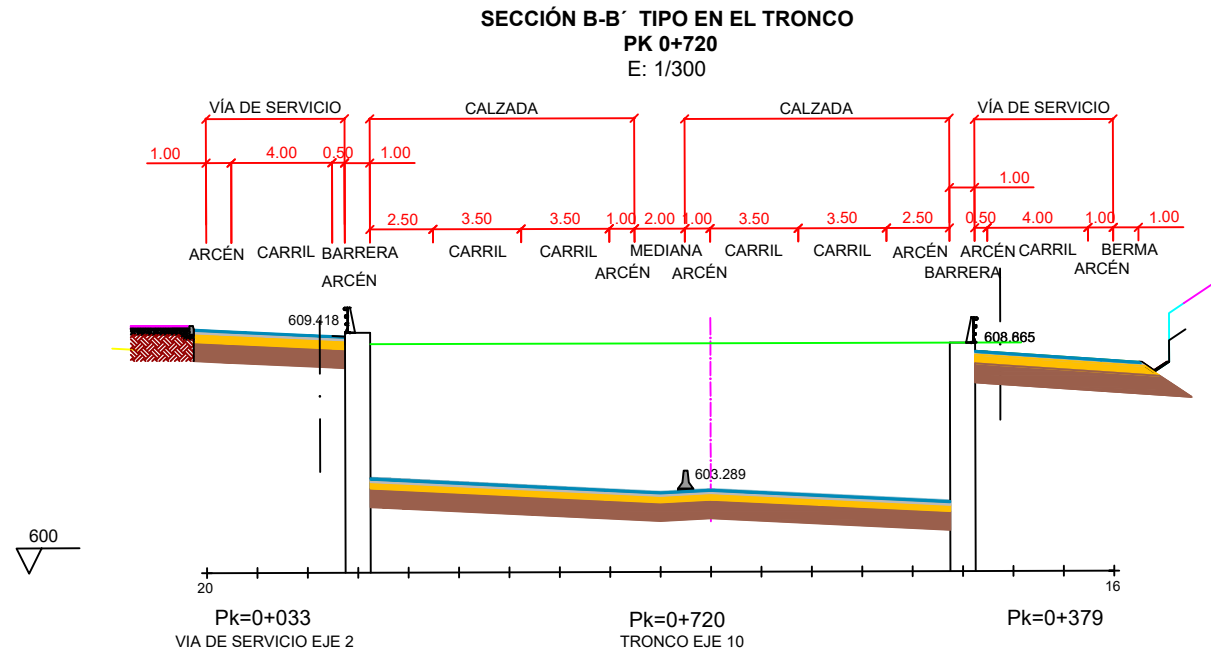




ESCALA 1:1000

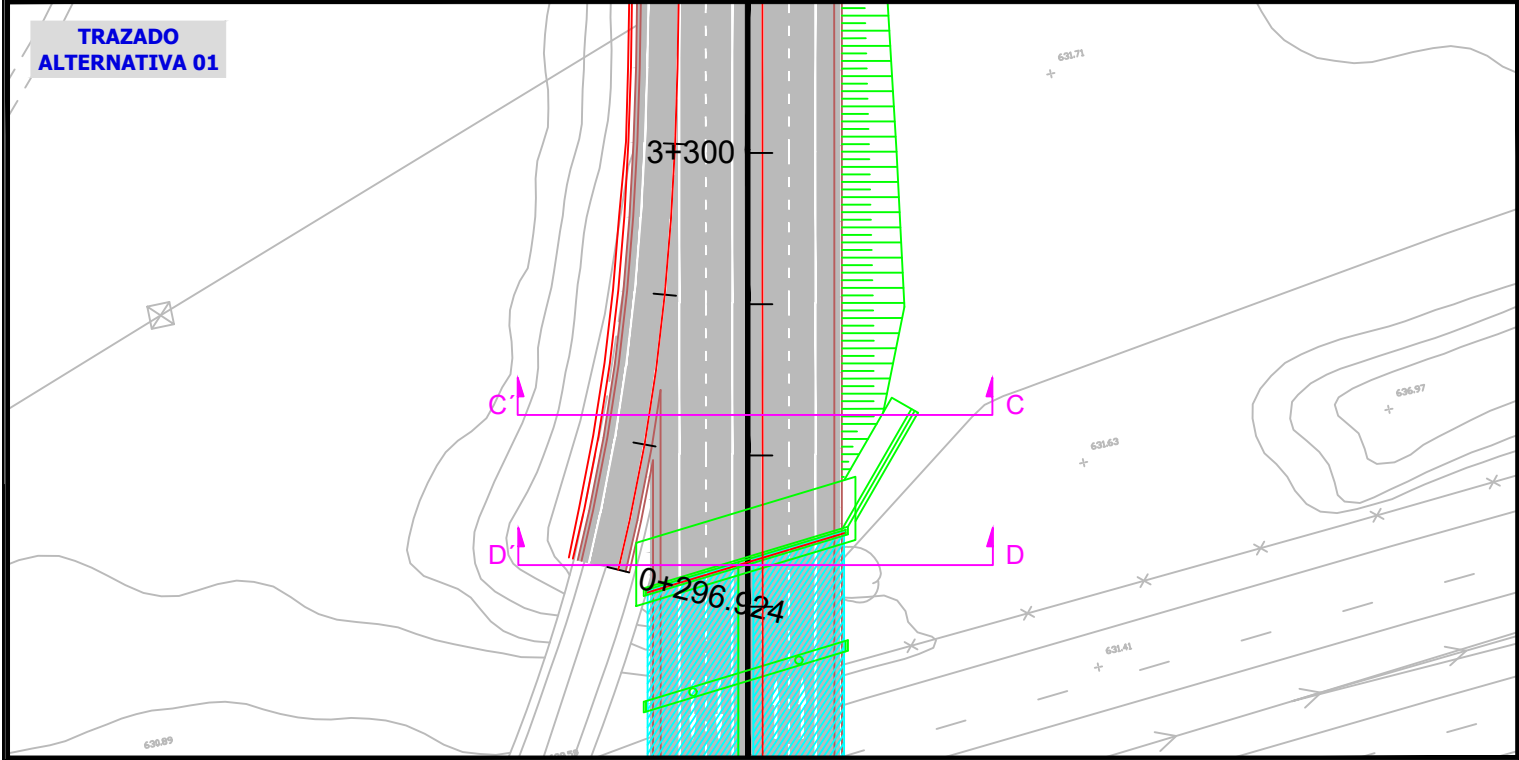


ESCALA 1:300



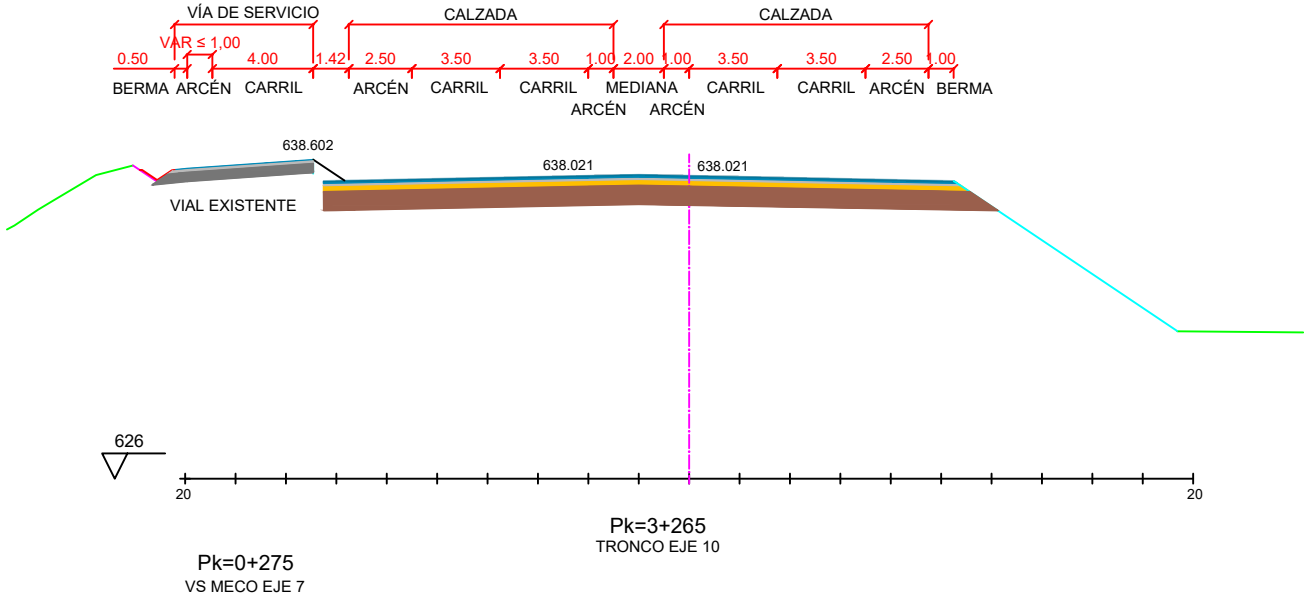
ESCALA 1:300





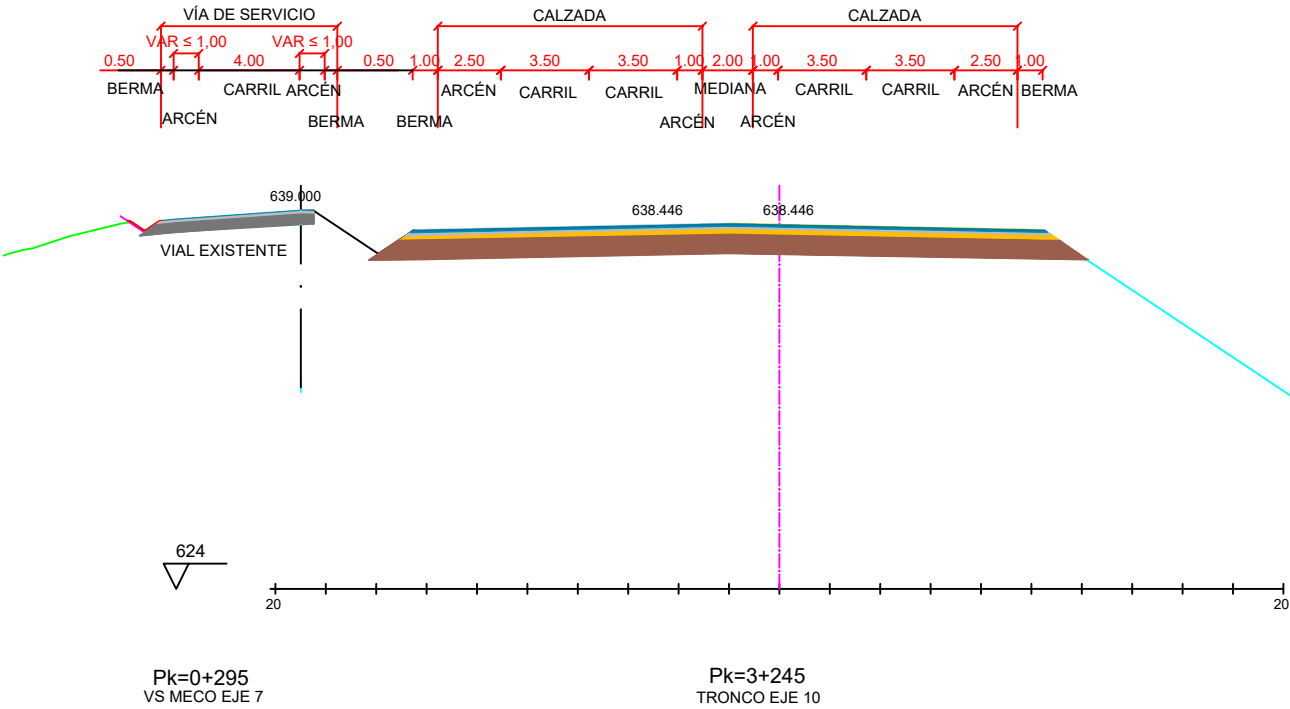
ESCALA 1:1000

SECCIÓN C-C' TIPO EN EL TRONCO  
PK 3+265  
E: 1/300

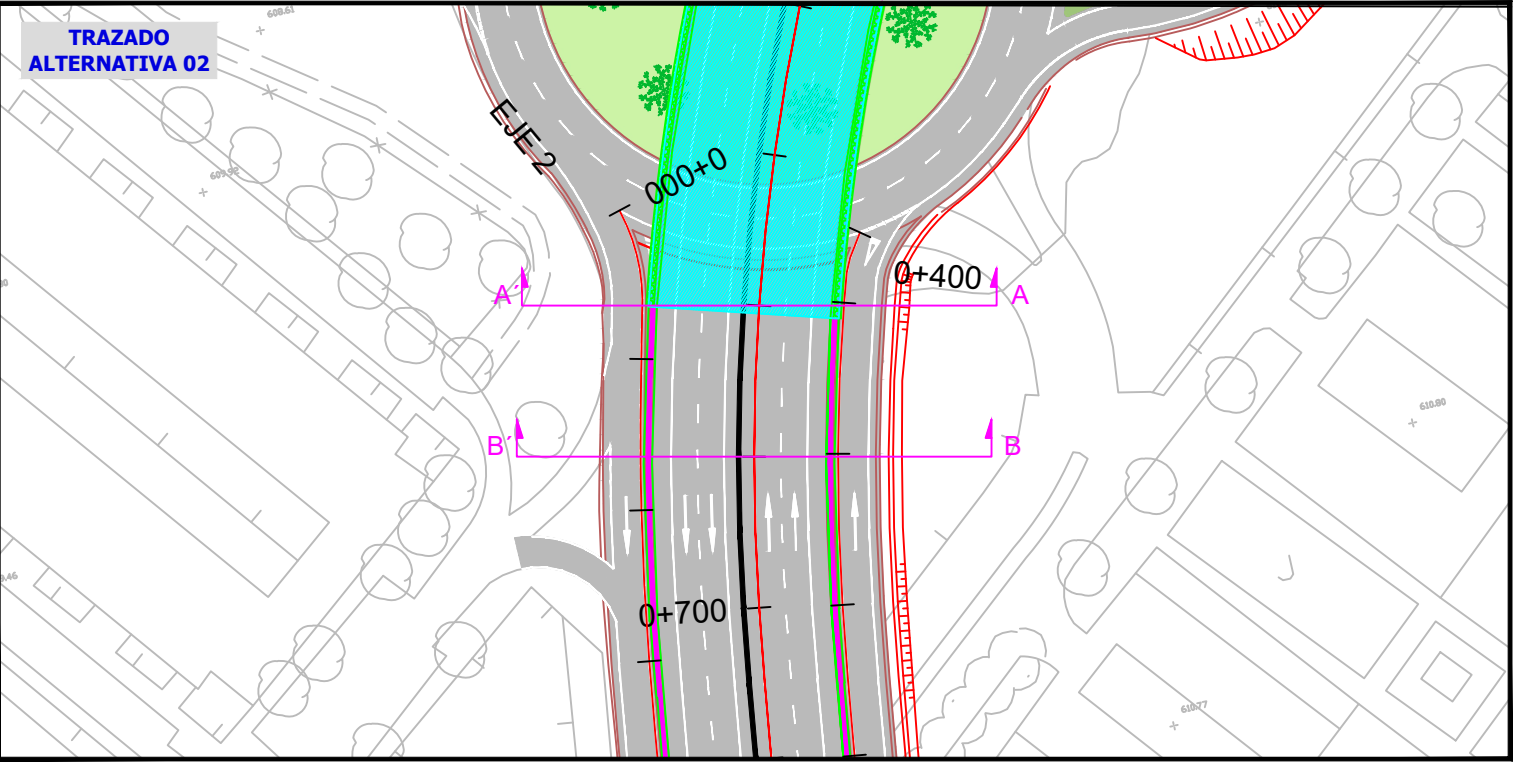


ESCALA 1:300

SECCIÓN D-D' TIPO EN EL TRONCO  
PK 3+245  
E: 1/300

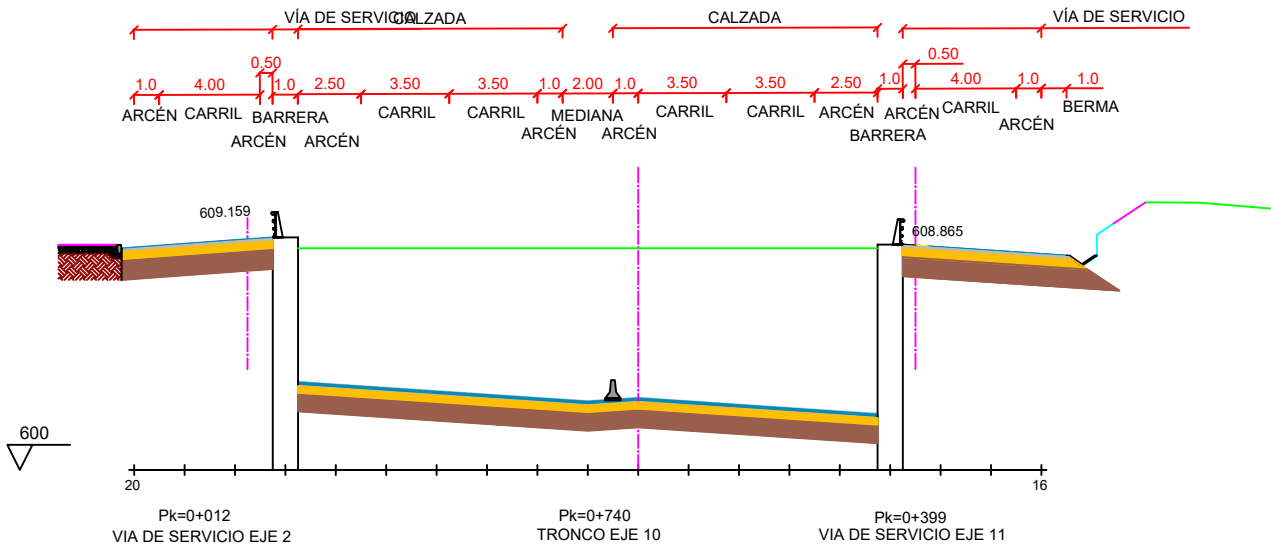


ESCALA 1:300



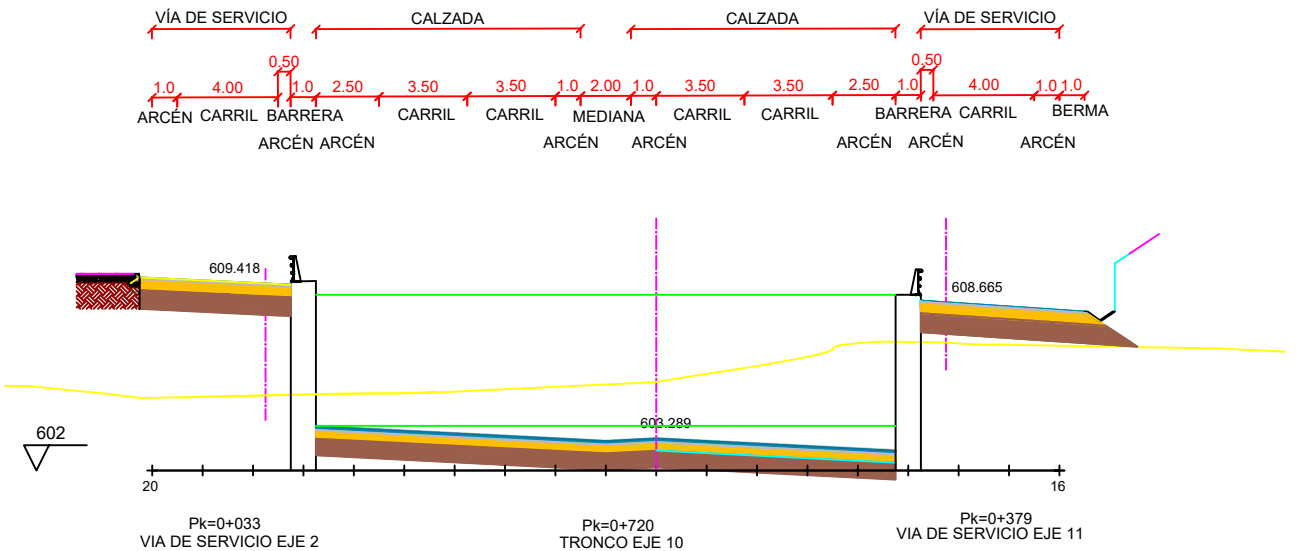
ESCALA 1:1000

**SECCIÓN A-A' TIPO EN EL TRONCO**  
**PK 0+740**  
E: 1/300

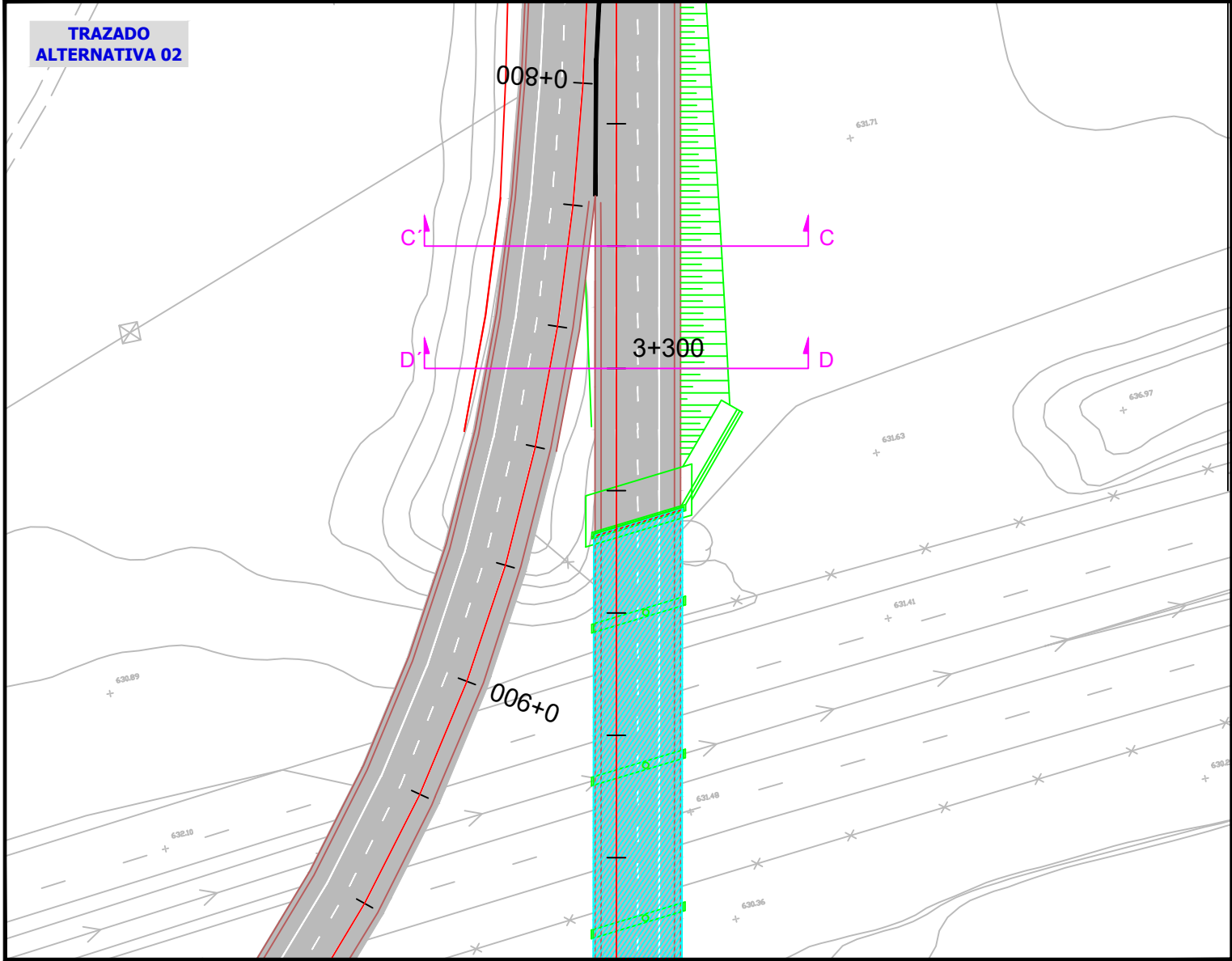


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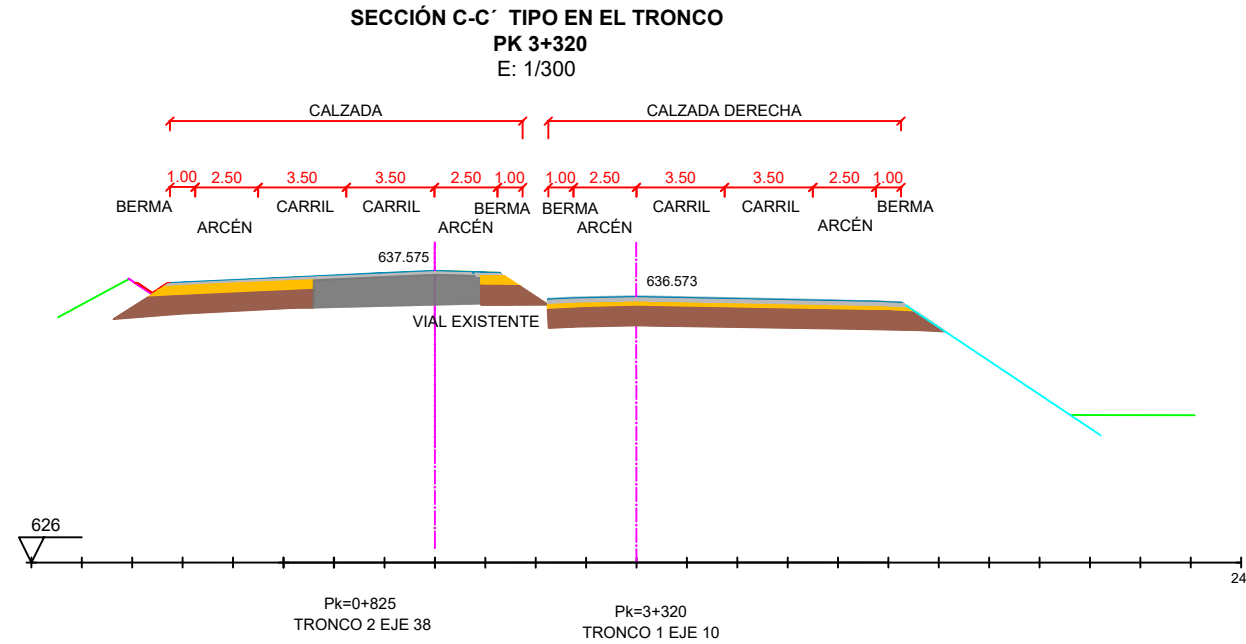
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**PK 0+720**  
E: 1/300



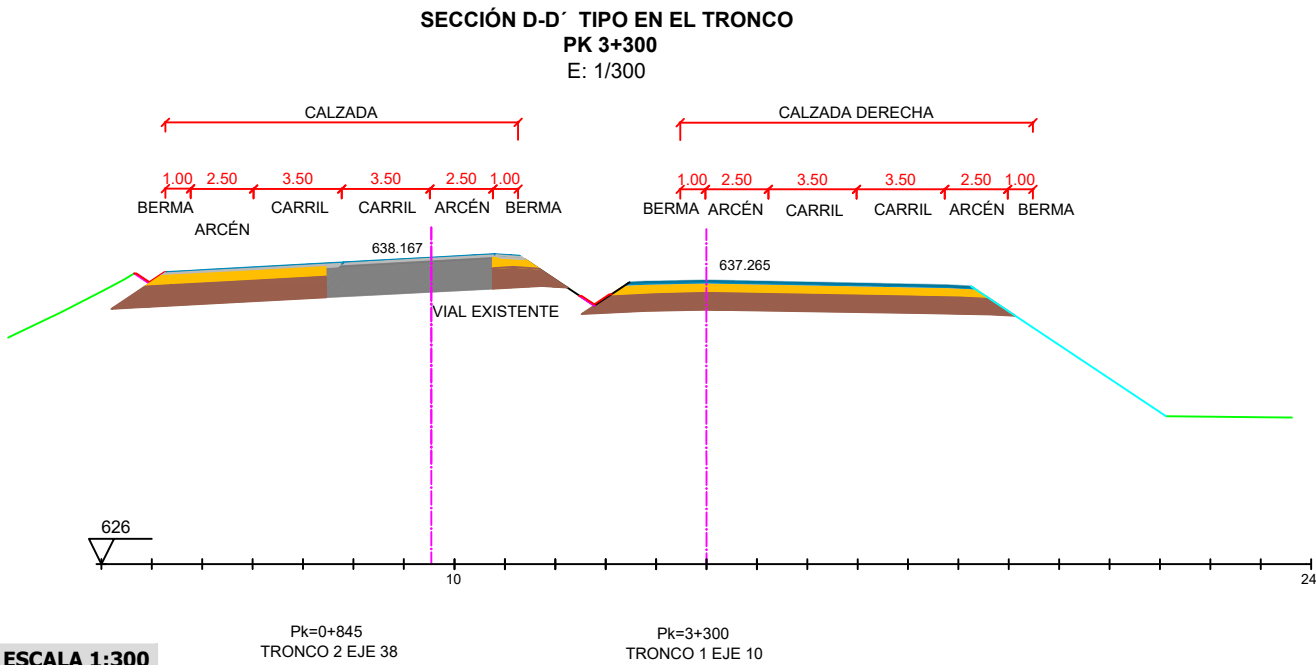
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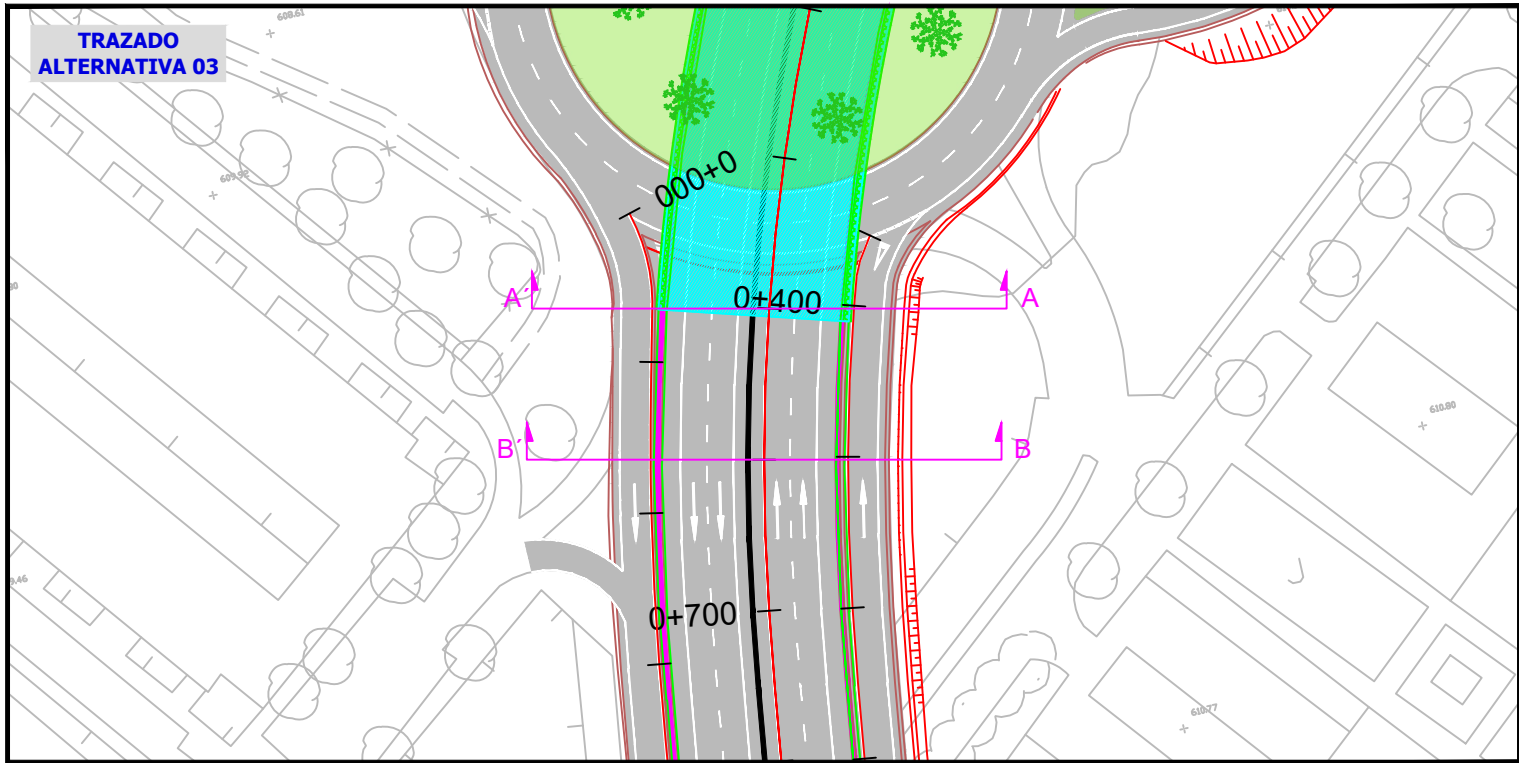
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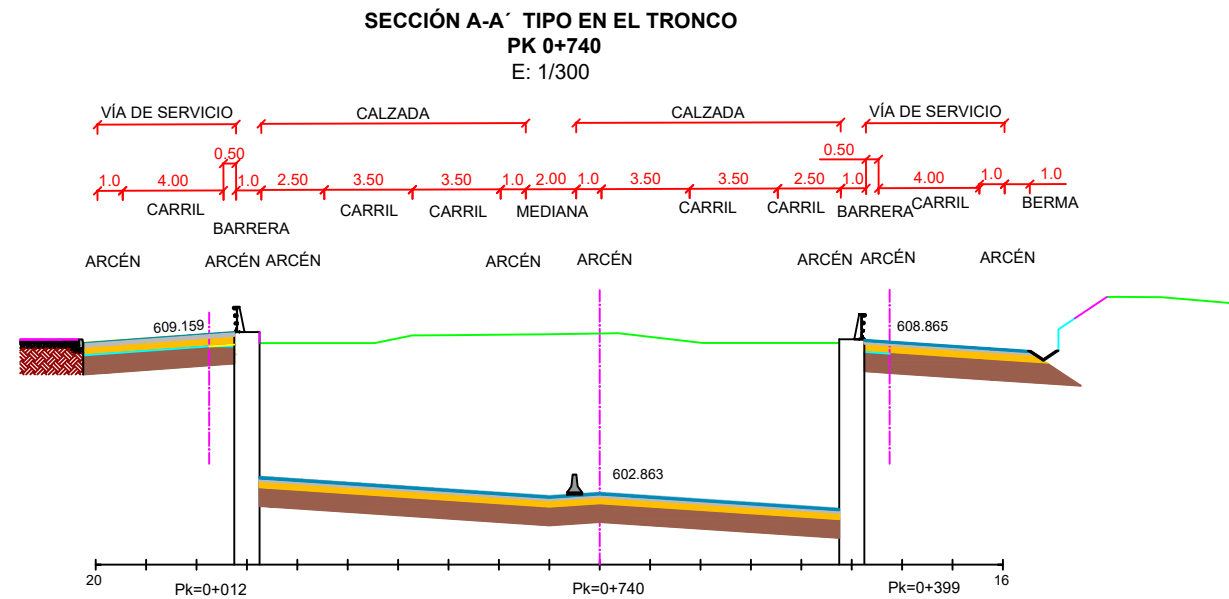
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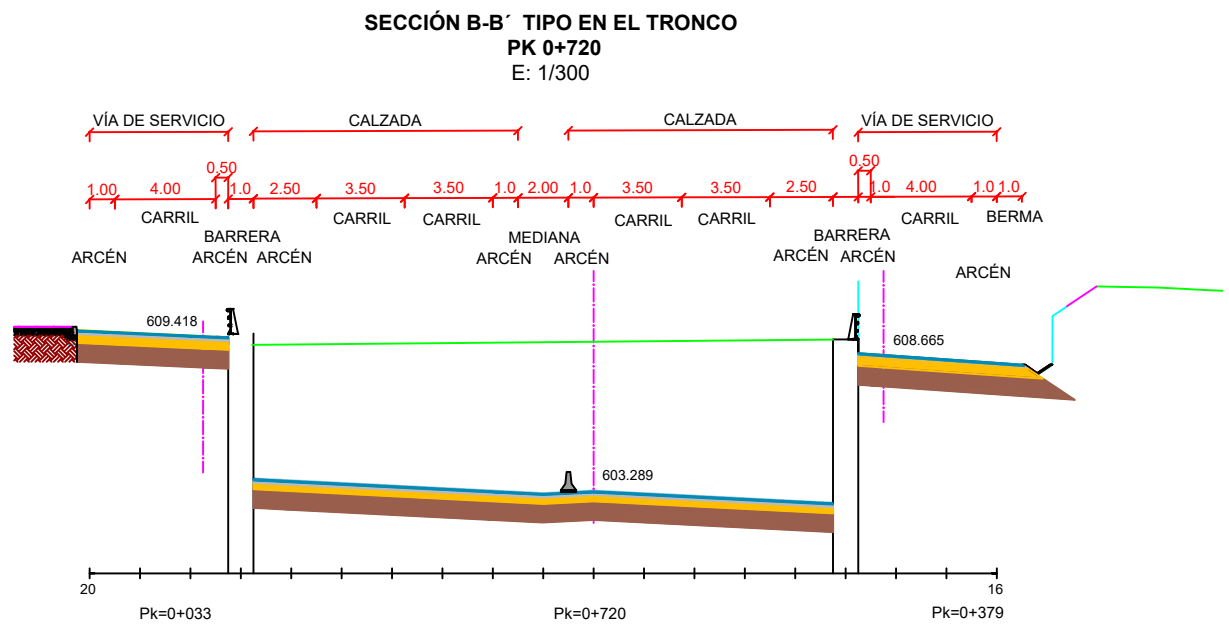
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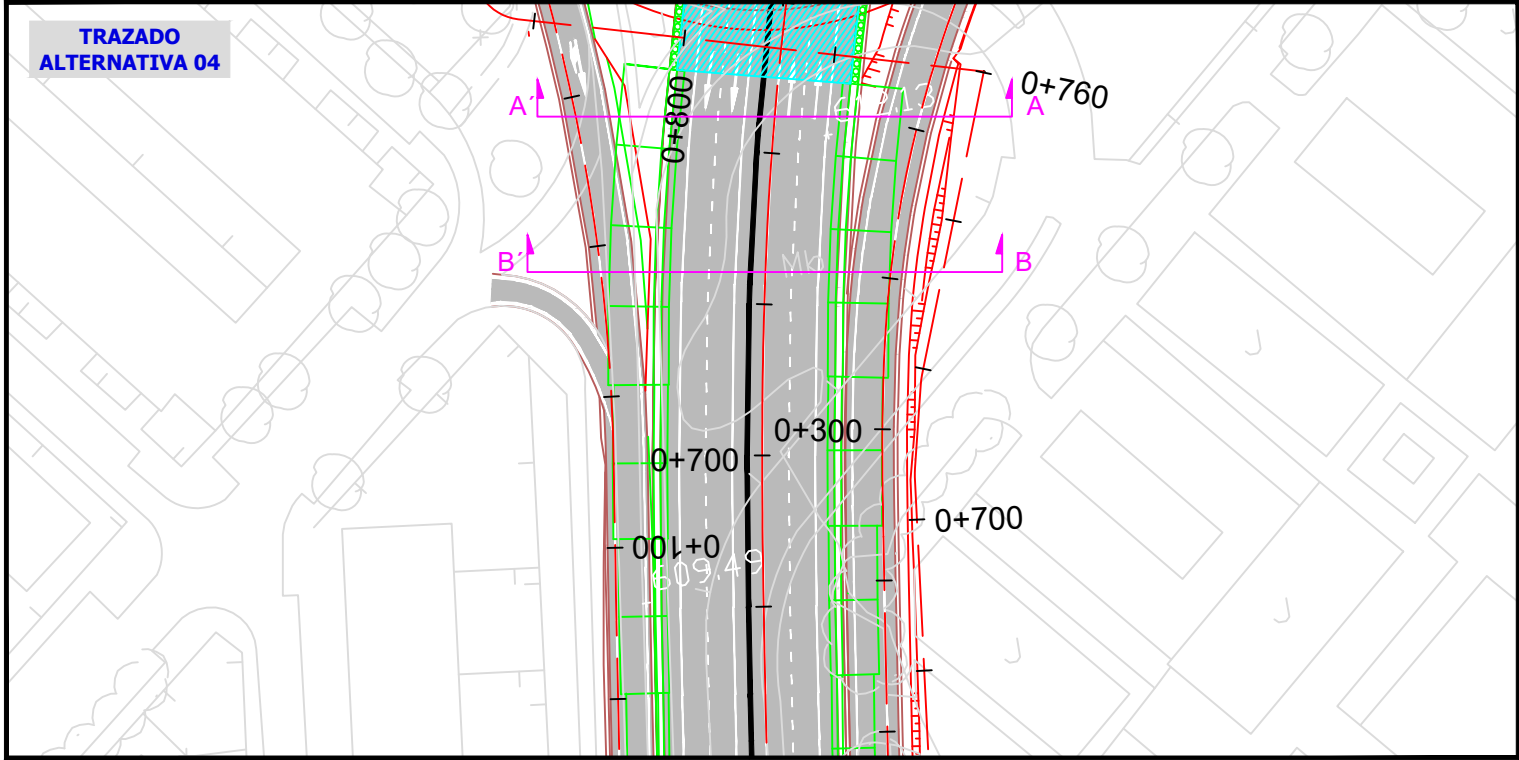
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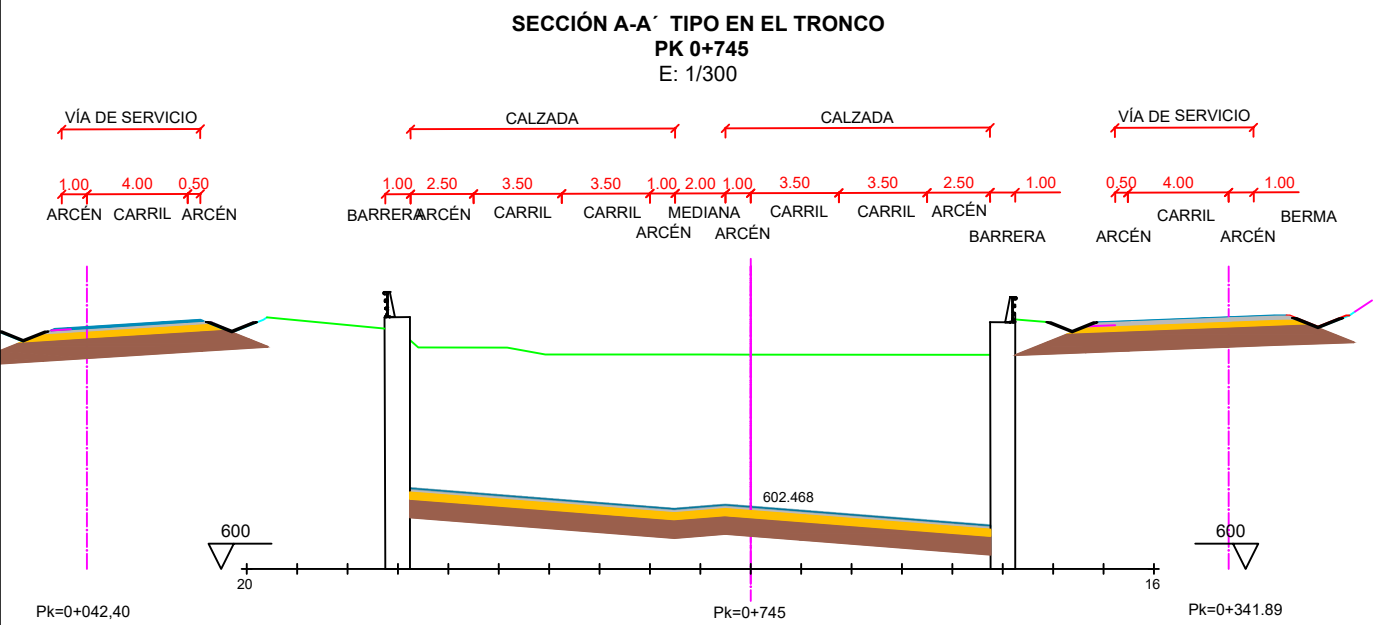
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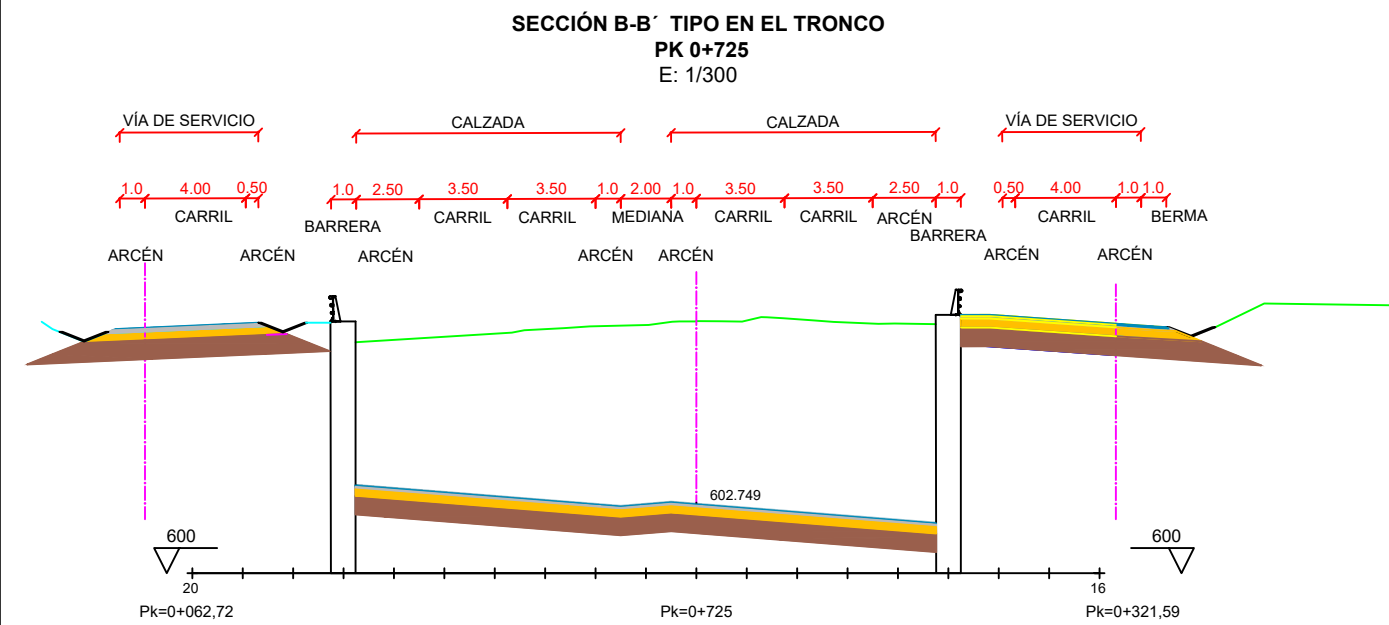
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ESCALA 1:1000



ESCALA 1:300



ESCALA 1:300






ORGANISMO

 CONSEJERÍA DE TRANSPORTES  
E INFRAESTRUCTURAS

**Comunidad de Madrid**



ESCALAS

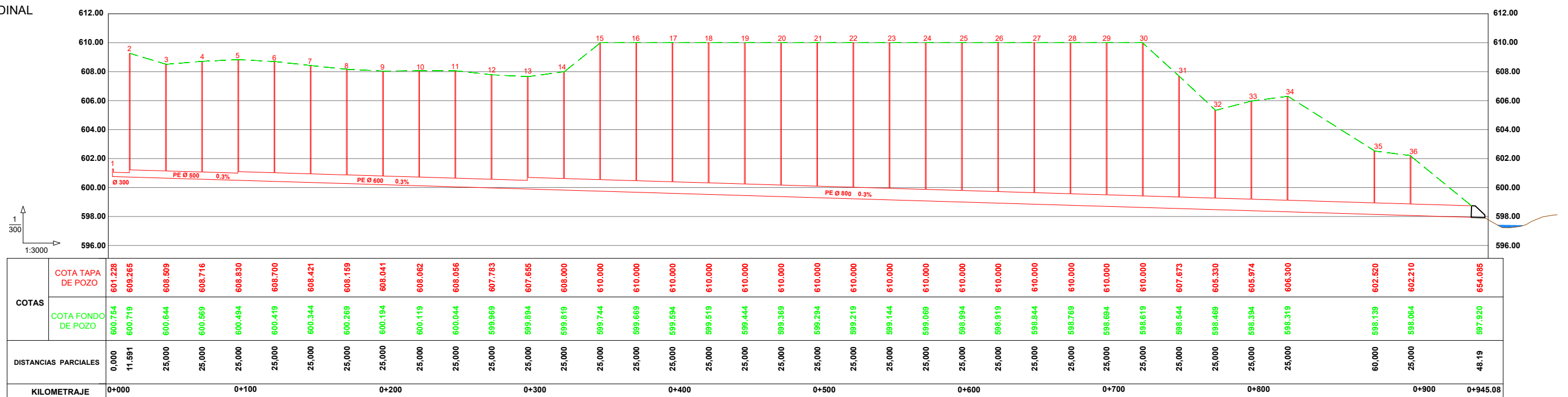
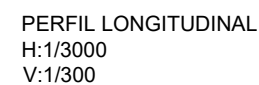
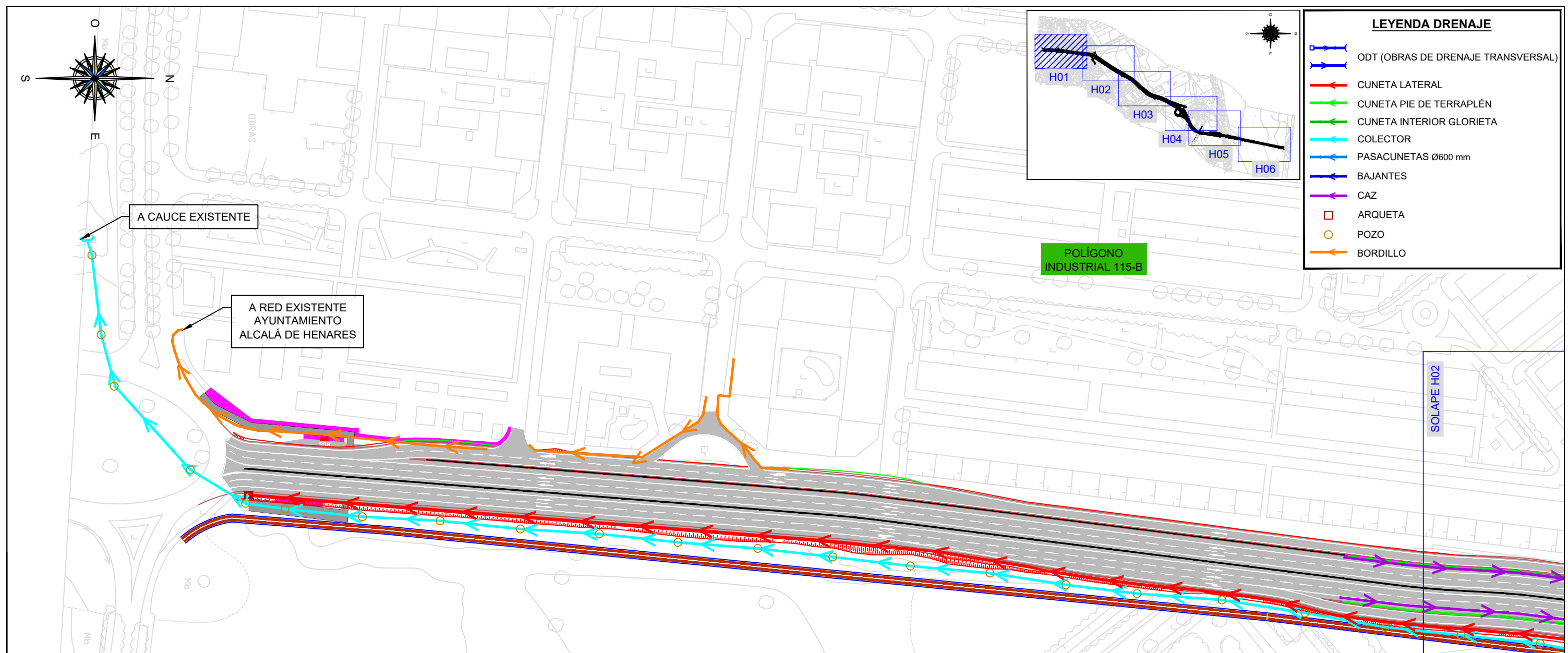


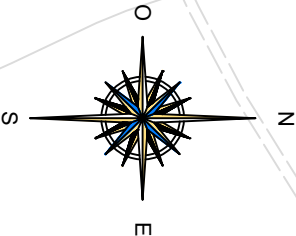
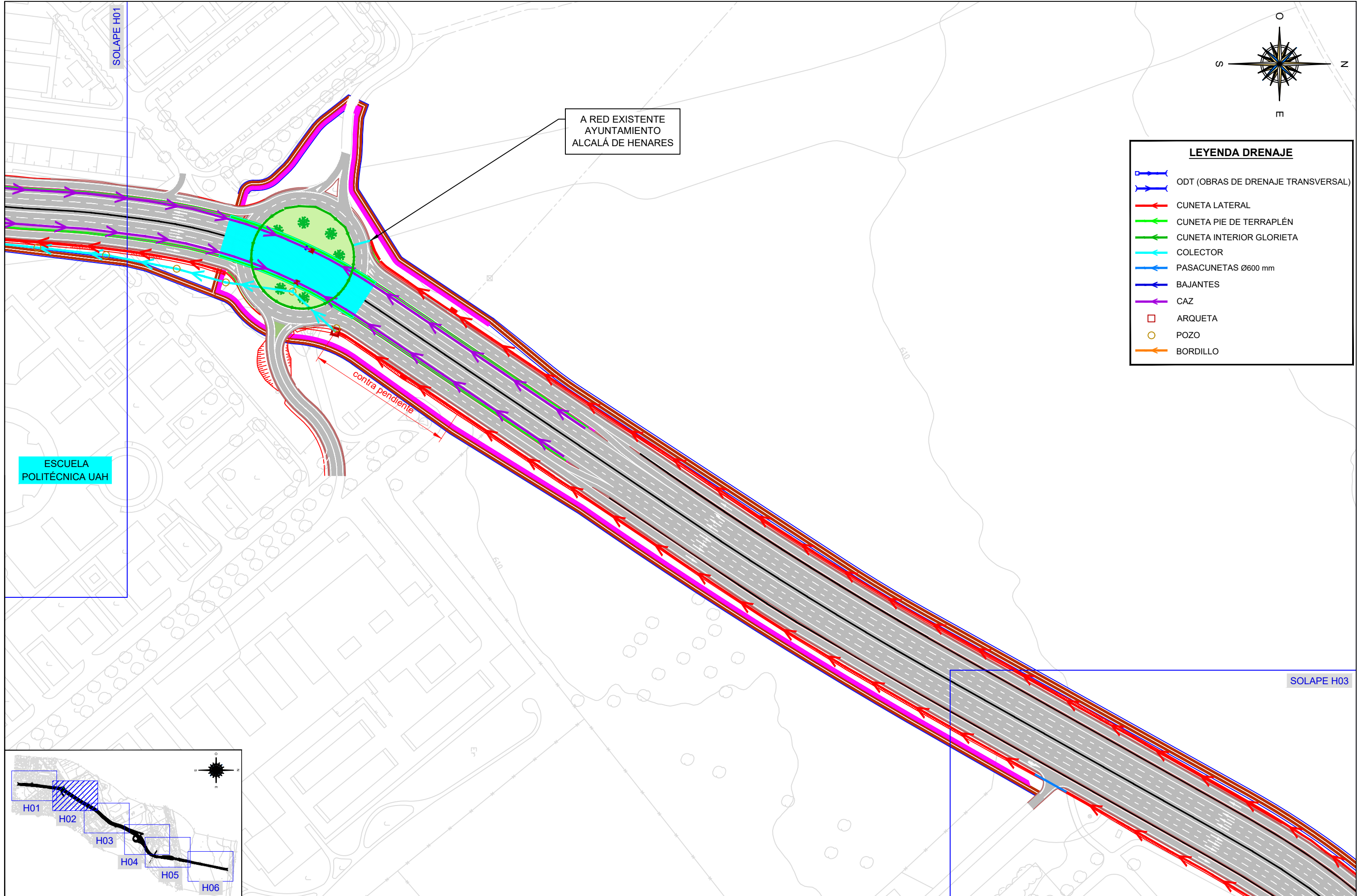
INDICADAS

A	FECHA	JUNIO 2023
	FICHERO	07-09.dwg

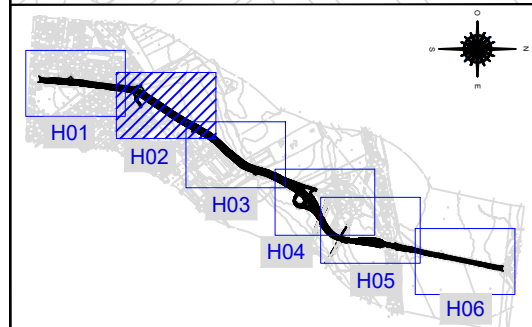
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<p>HOJA 2 DE 2</p>



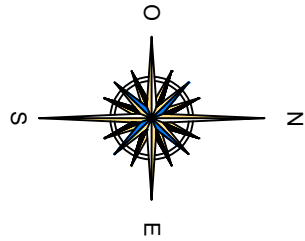
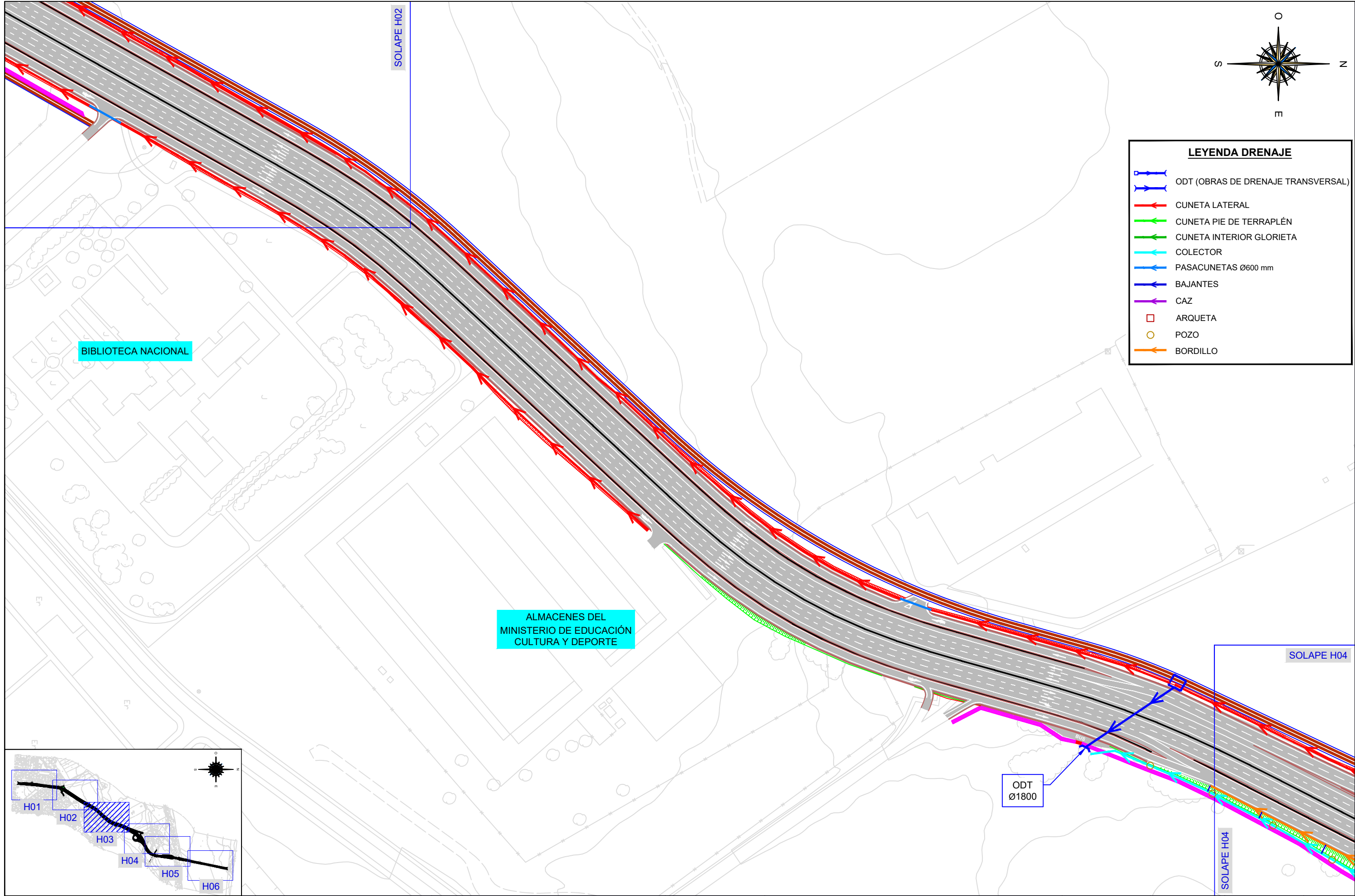




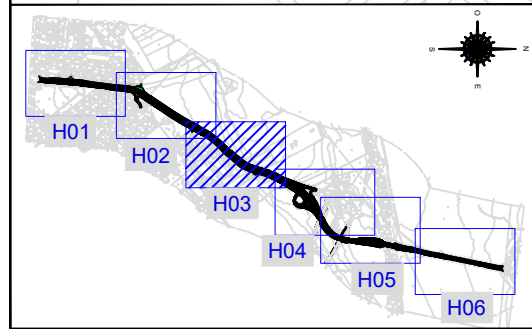
LEYENDA DRENAJE	
	ODT (OBRAS DE DRENAJE TRANSVERSAL)
	CUNETA LATERAL
	CUNETA PIE DE TERRAPLÉN
	CUNETA INTERIOR GLORIETA
	COLECTOR
	PASACUNETAS Ø600 mm
	BAJANTES
	CAZ
	ARQUETA
	POZO
	BORDILLO







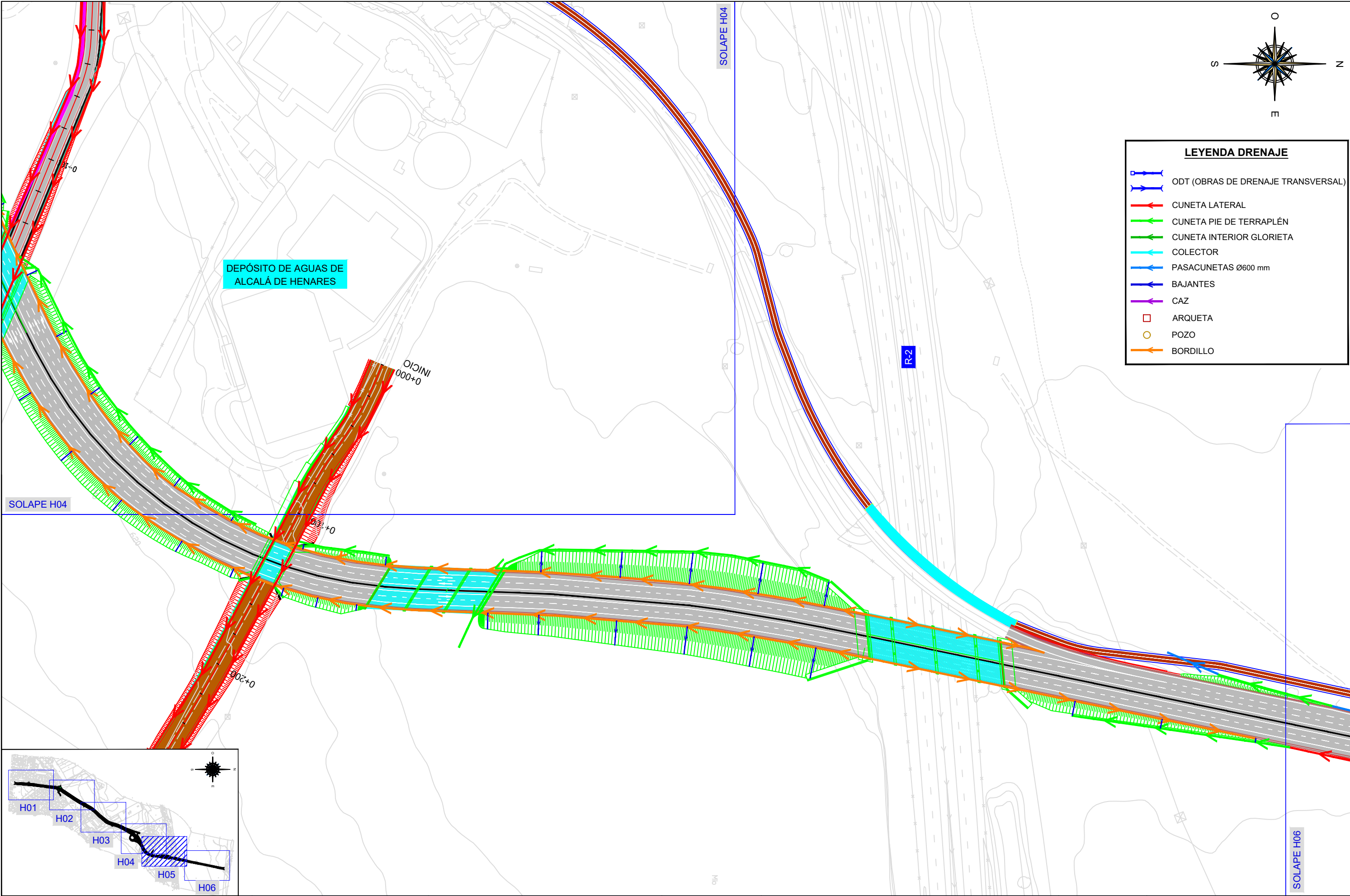
LEYENDA DRENAJE	
	ODT (OBRAS DE DRENAJE TRANSVERSAL)
	CUNETA LATERAL
	CUNETA PIE DE TERRAPLÉN
	CUNETA INTERIOR GLORIETA
	COLECTOR
	PASACUNETAS Ø600 mm
	BAJANTES
	CAZ
	ARQUETA
	POZO
	BORDILLO



ORGANISMO CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS <b>Comunidad de Madrid</b>	CONSULTOR INGEMED INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	AUTOR DEL ESTUDIO  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	ESCALAS  1: 2000	TÍTULO DE PROYECTO NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	FECHA JUNIO 2023	DESIGNACIÓN DRENAJE ALTERNATIVA 1	Nº PLANO 08-01
					FICHERO 08-01.dwg		HOJA 3 DE 6

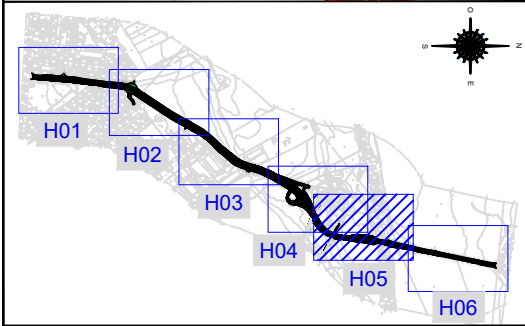


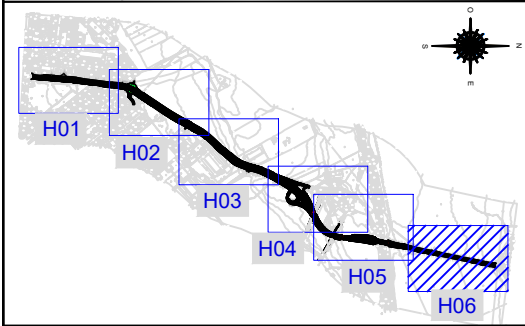


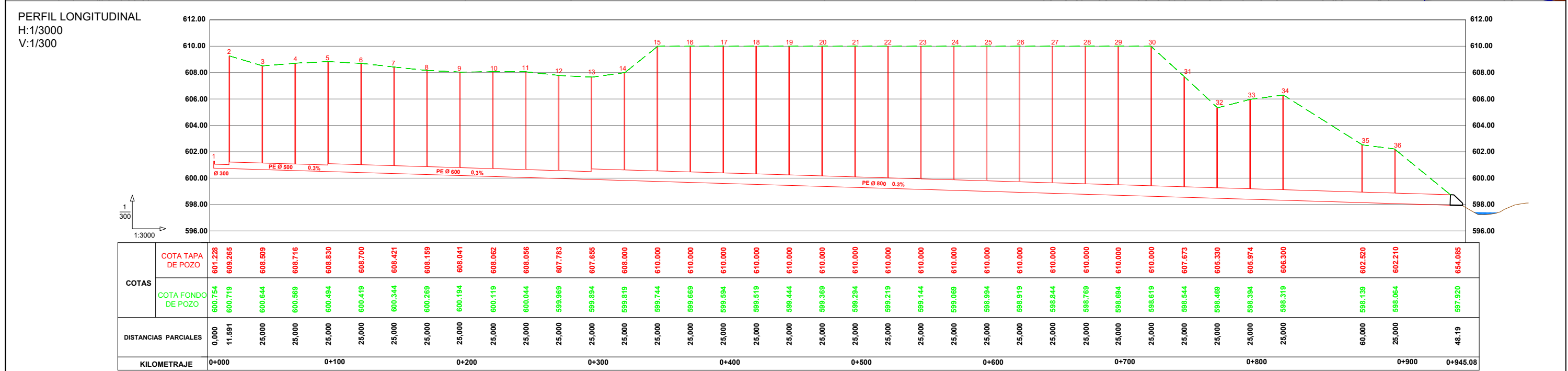
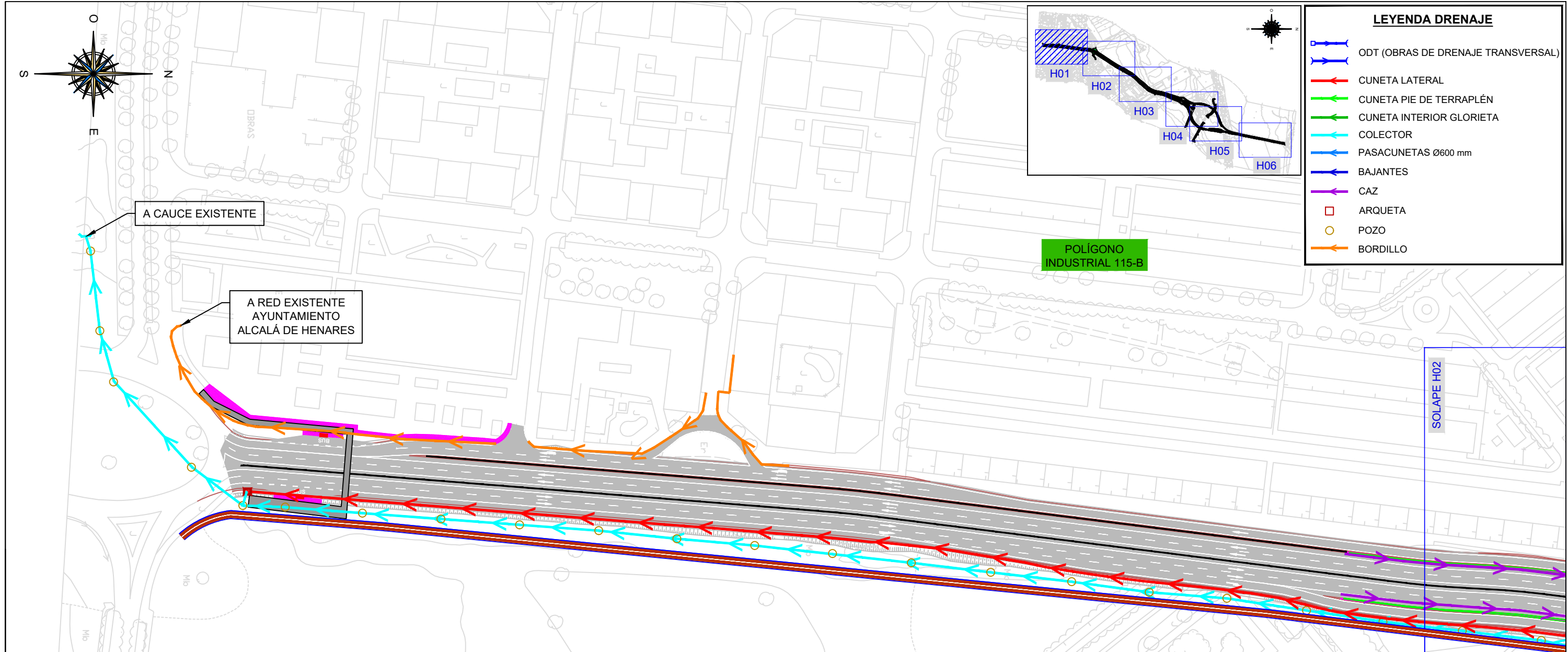


**LEYENDA DRENAJE**

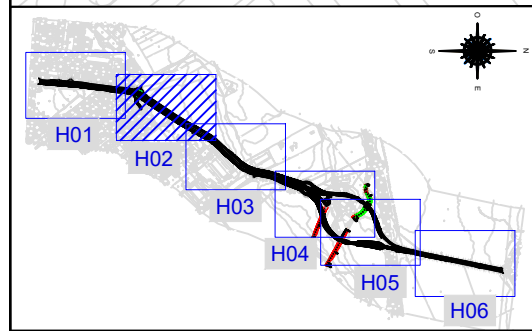
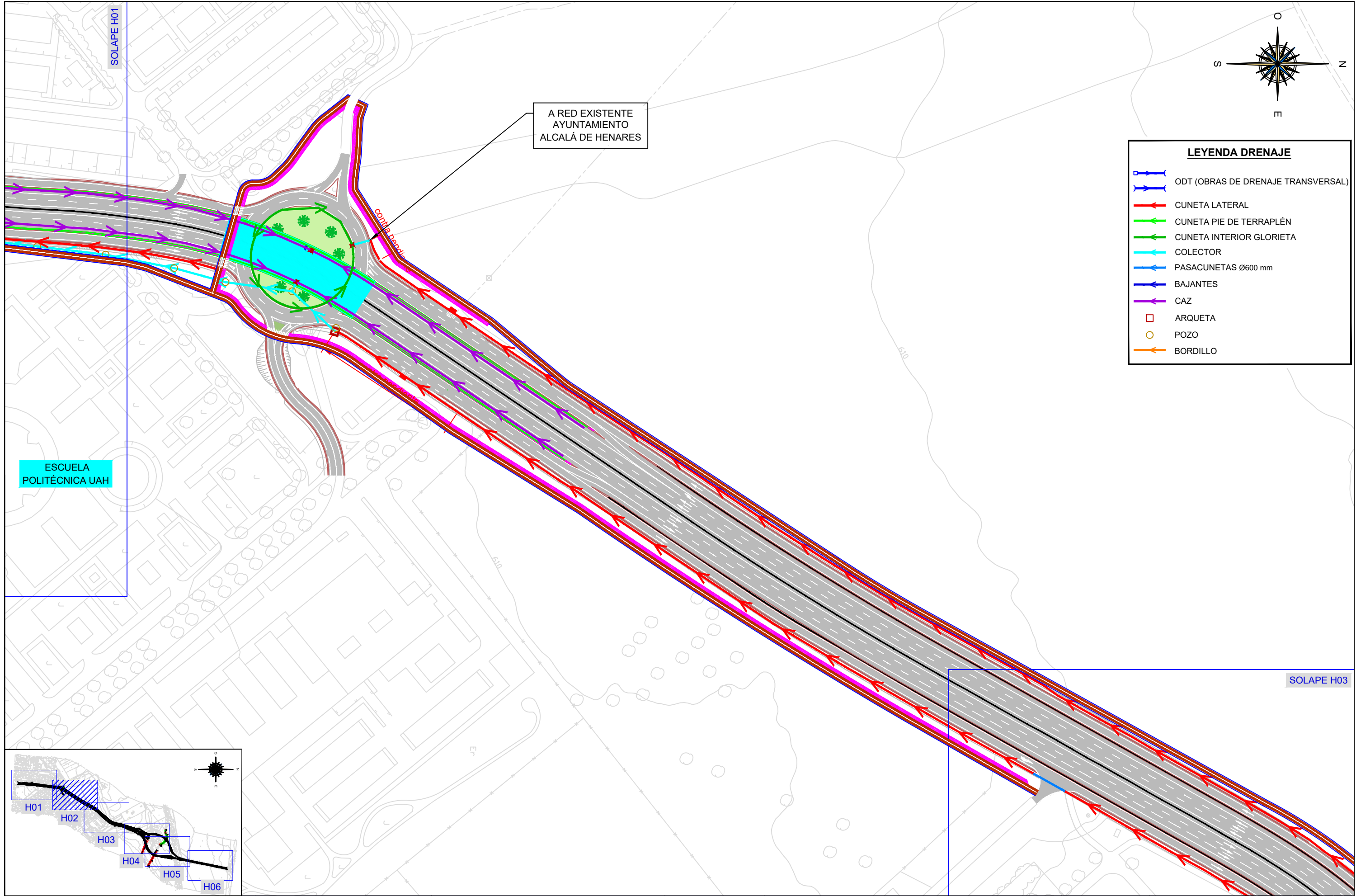
- ODT (OBRAS DE DRENAJE TRANSVERSAL)
- CUNETETA LATERAL
- CUNETETA PIE DE TERRAPLÉN
- CUNETETA INTERIOR GLORIETA
- COLECTOR
- PASACUNETAS Ø600 mm
- BAJANTES
- CAZ
- ARQUETA
- POZO
- BORDILLO

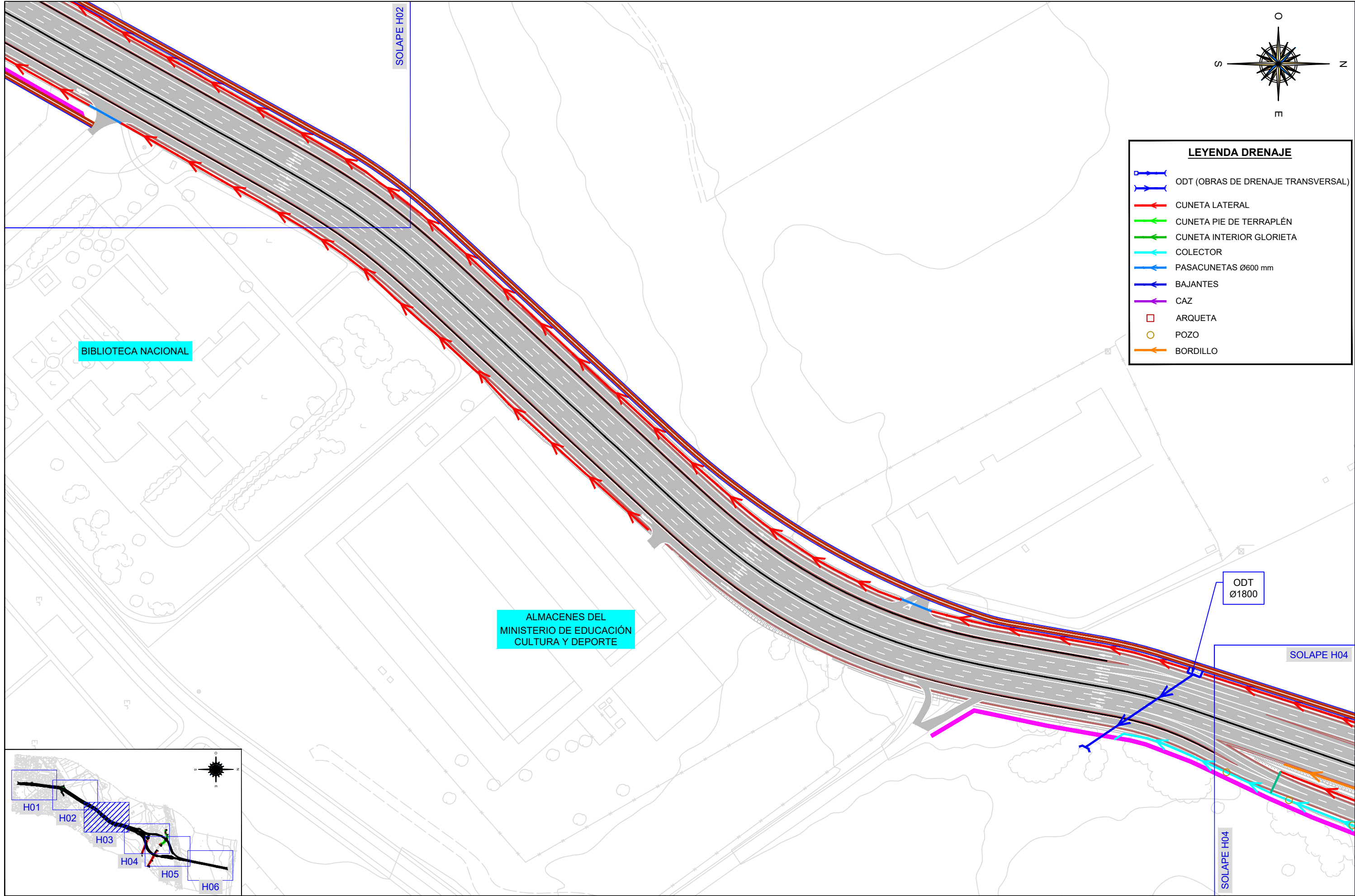




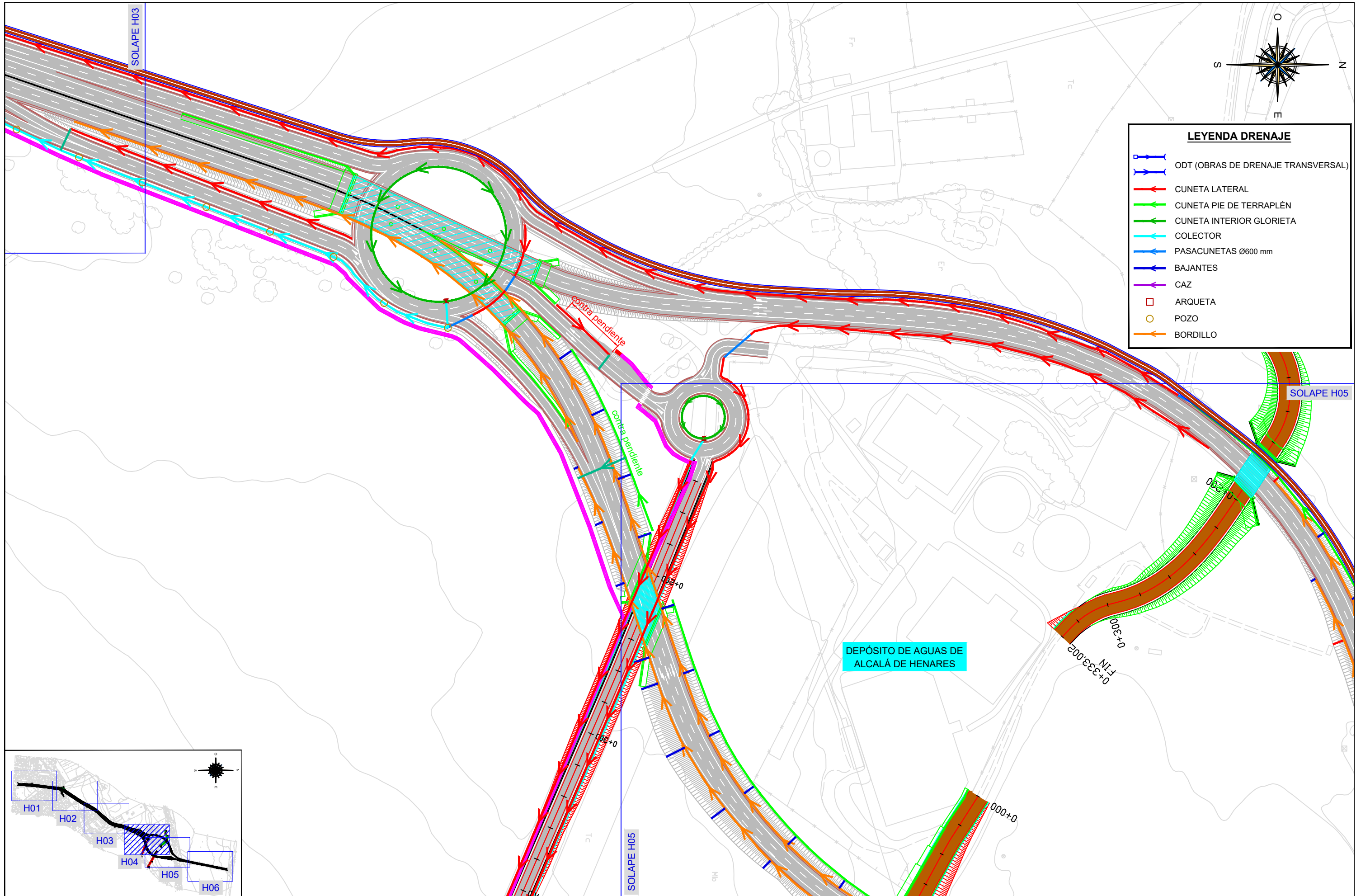






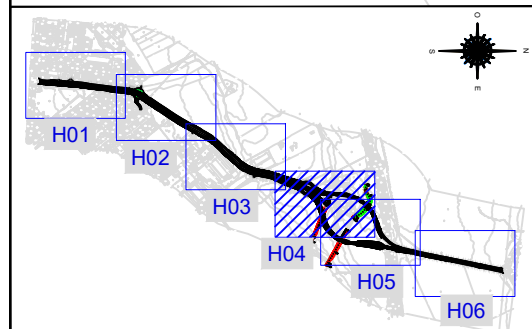


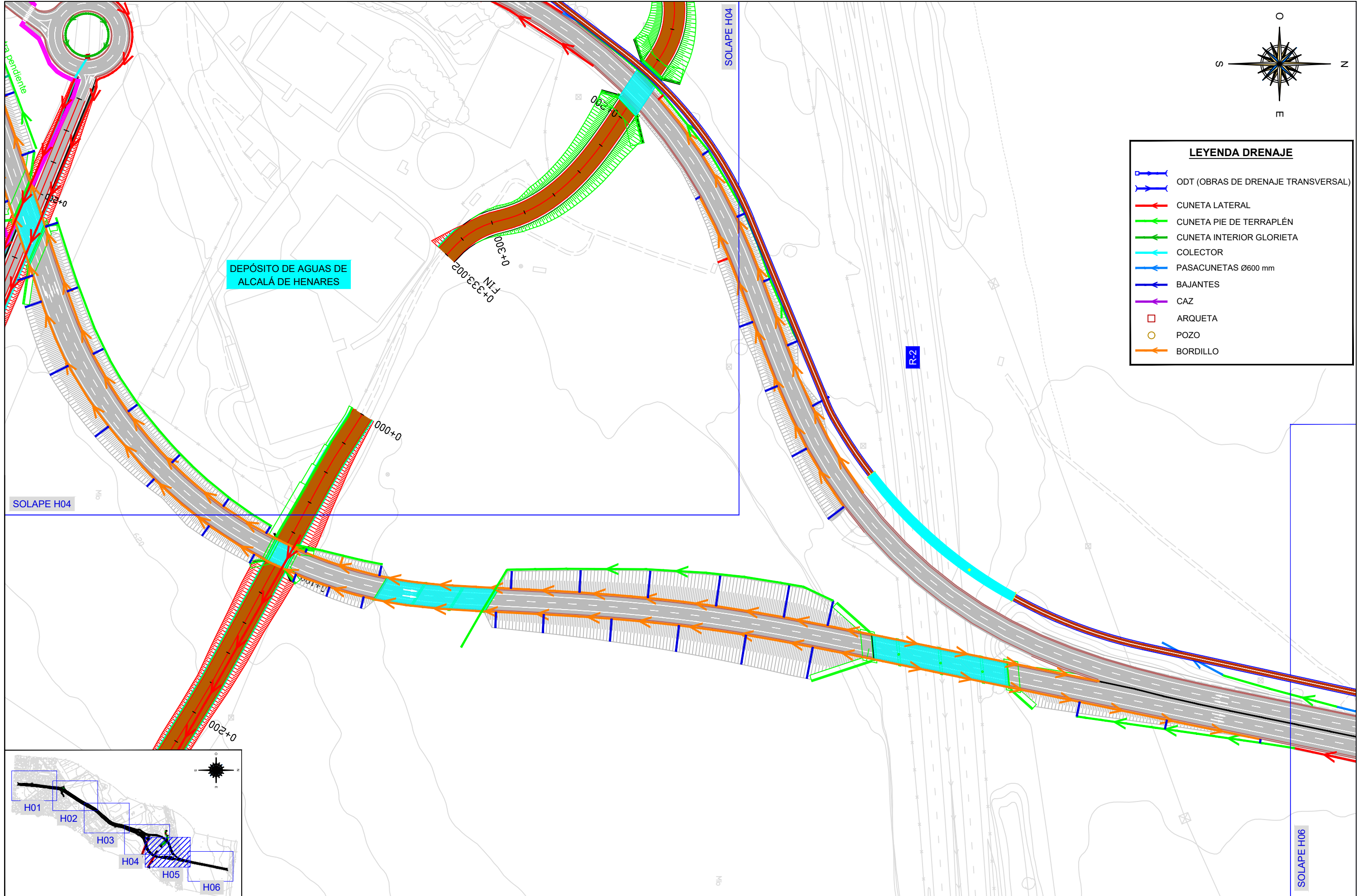




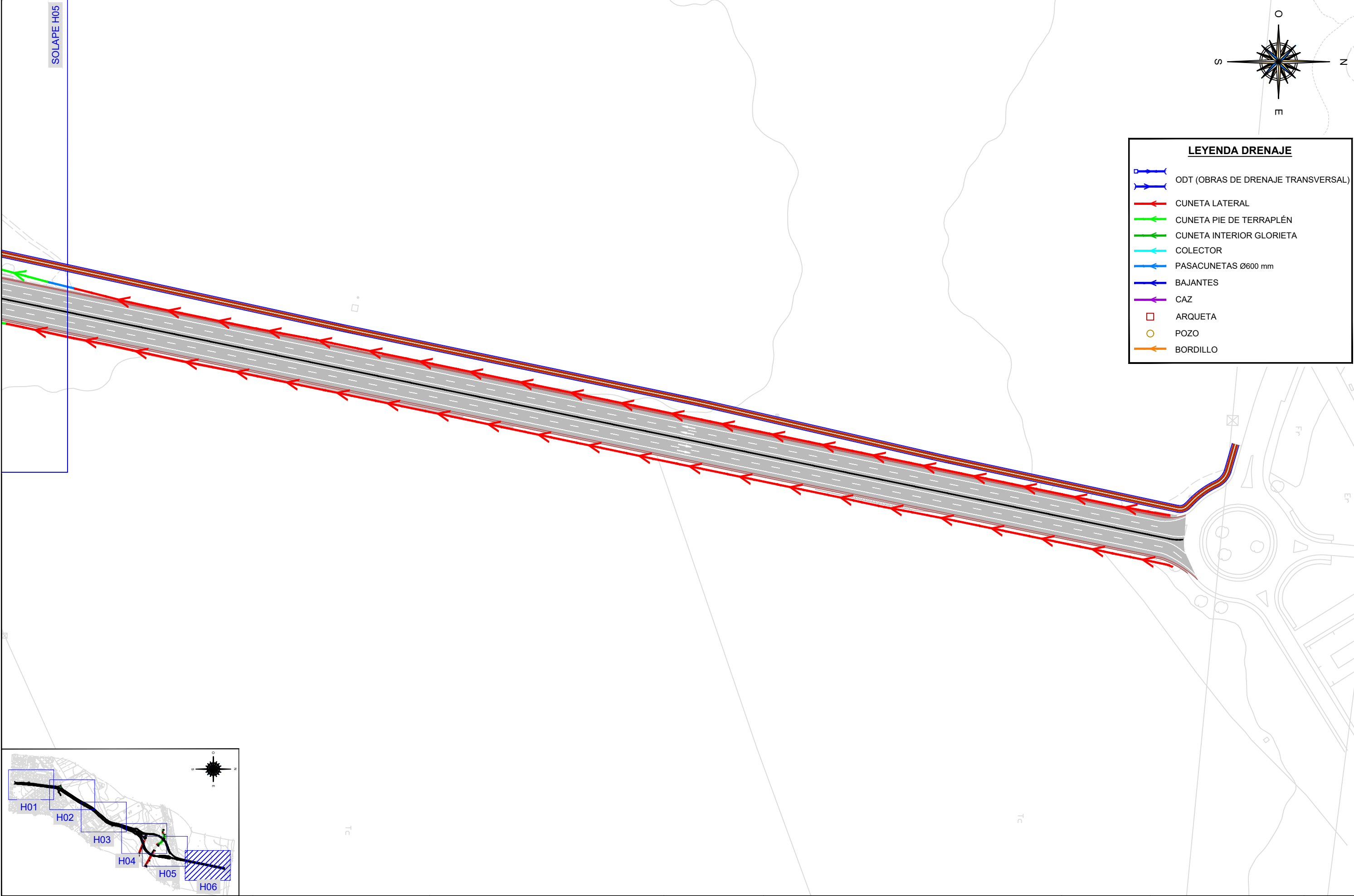
**LEYENDA DRENAJE**

- ODT (OBRAS DE DRENAJE TRANSVERSAL)
- CUNETA LATERAL
- CUNETA PIE DE TERRAPLÉN
- CUNETA INTERIOR GLORIETA
- COLECTOR
- PASACUNETAS Ø600 mm
- BAJANTES
- CAZ
- ARQUETA
- POZO
- BORDILLO



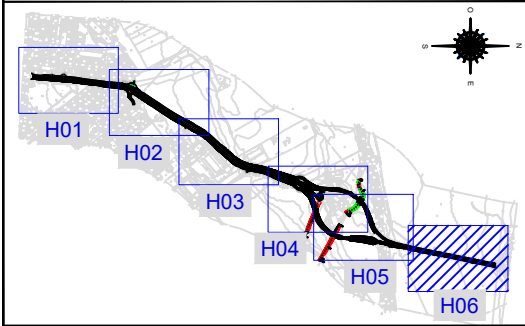


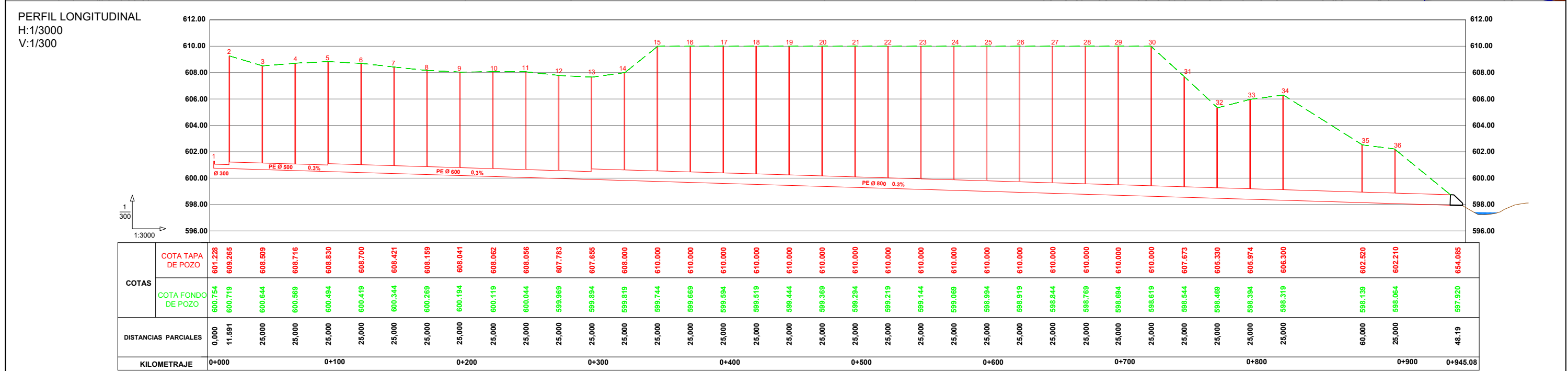
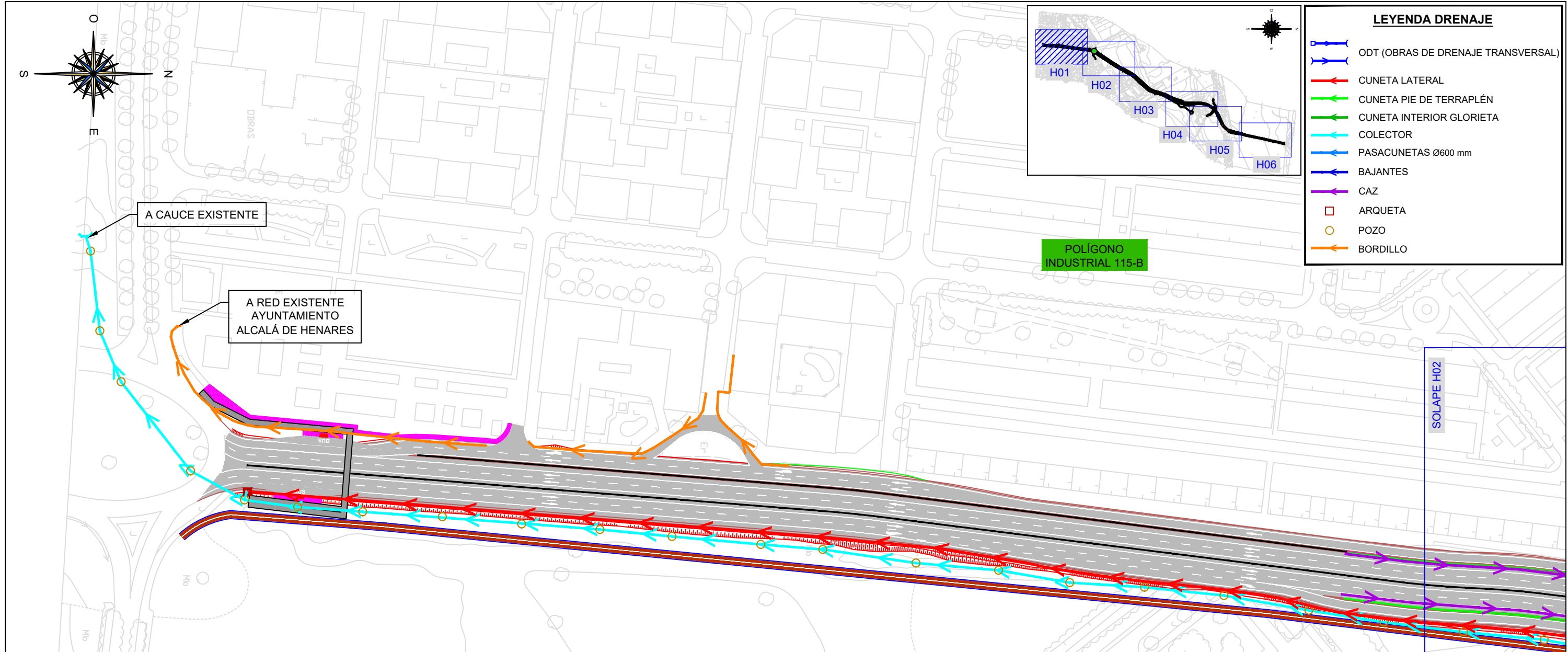


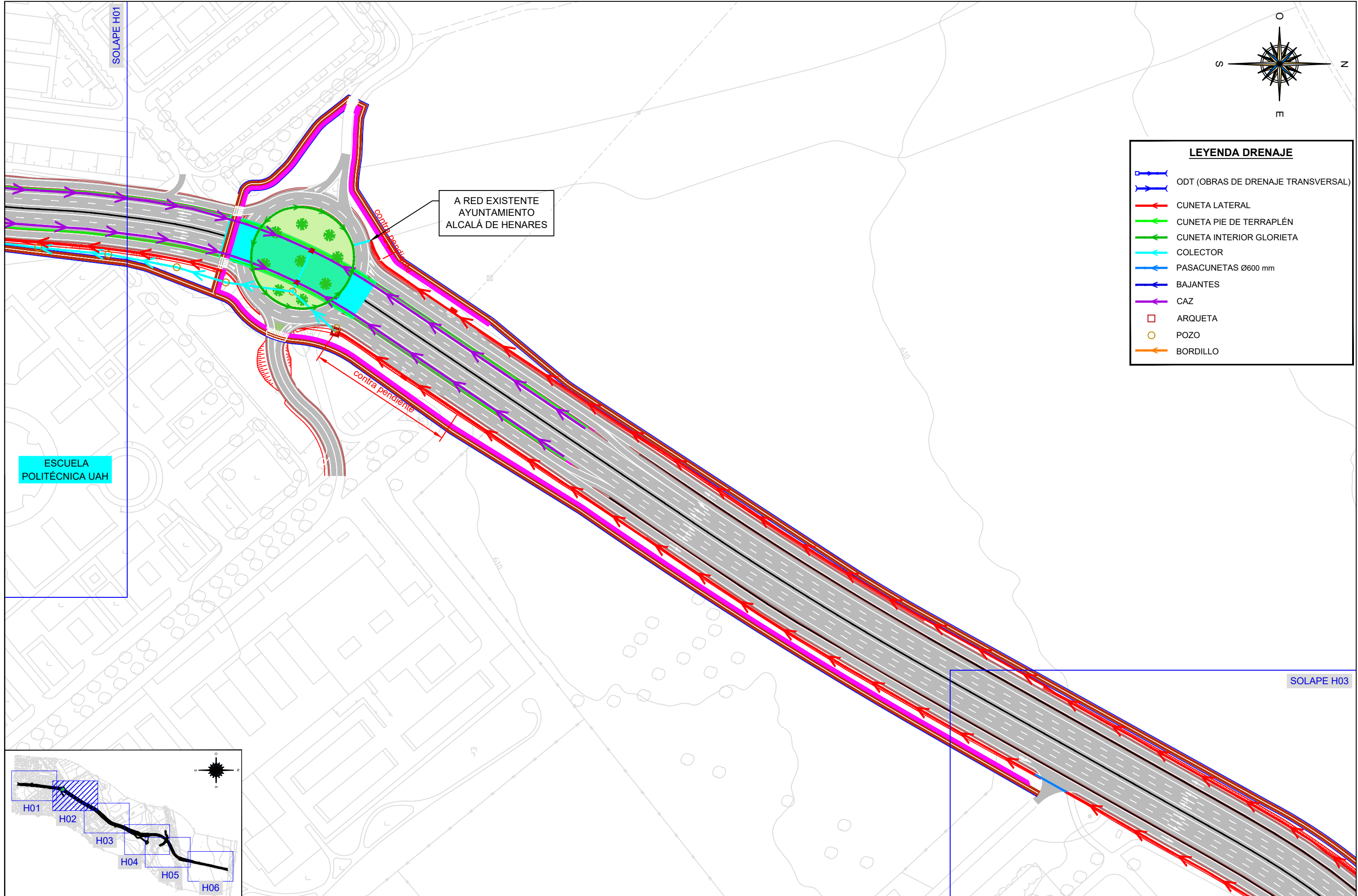


**LEYENDA DRENAJE**

- ODT (OBRAS DE DRENAJE TRANSVERSAL)
- CUNETA LATERAL
- CUNETA PIE DE TERRAPLÉN
- CUNETA INTERIOR GLORIETA
- COLECTOR
- PASACUNETAS Ø600 mm
- BAJANTES
- CAZ
- ARQUETA
- POZO
- BORDILLO

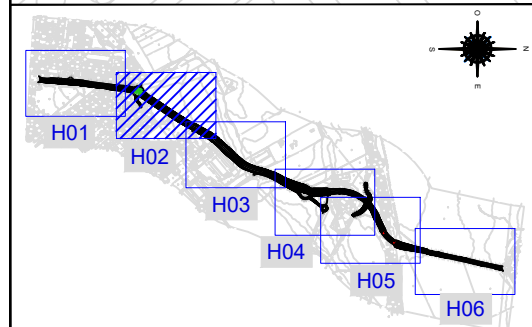




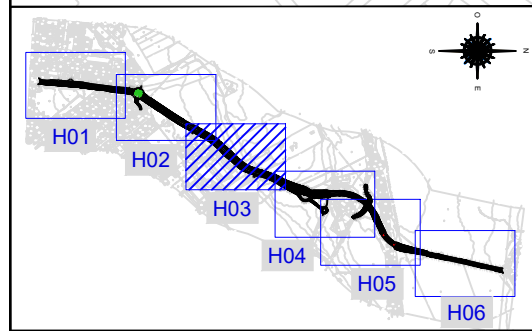
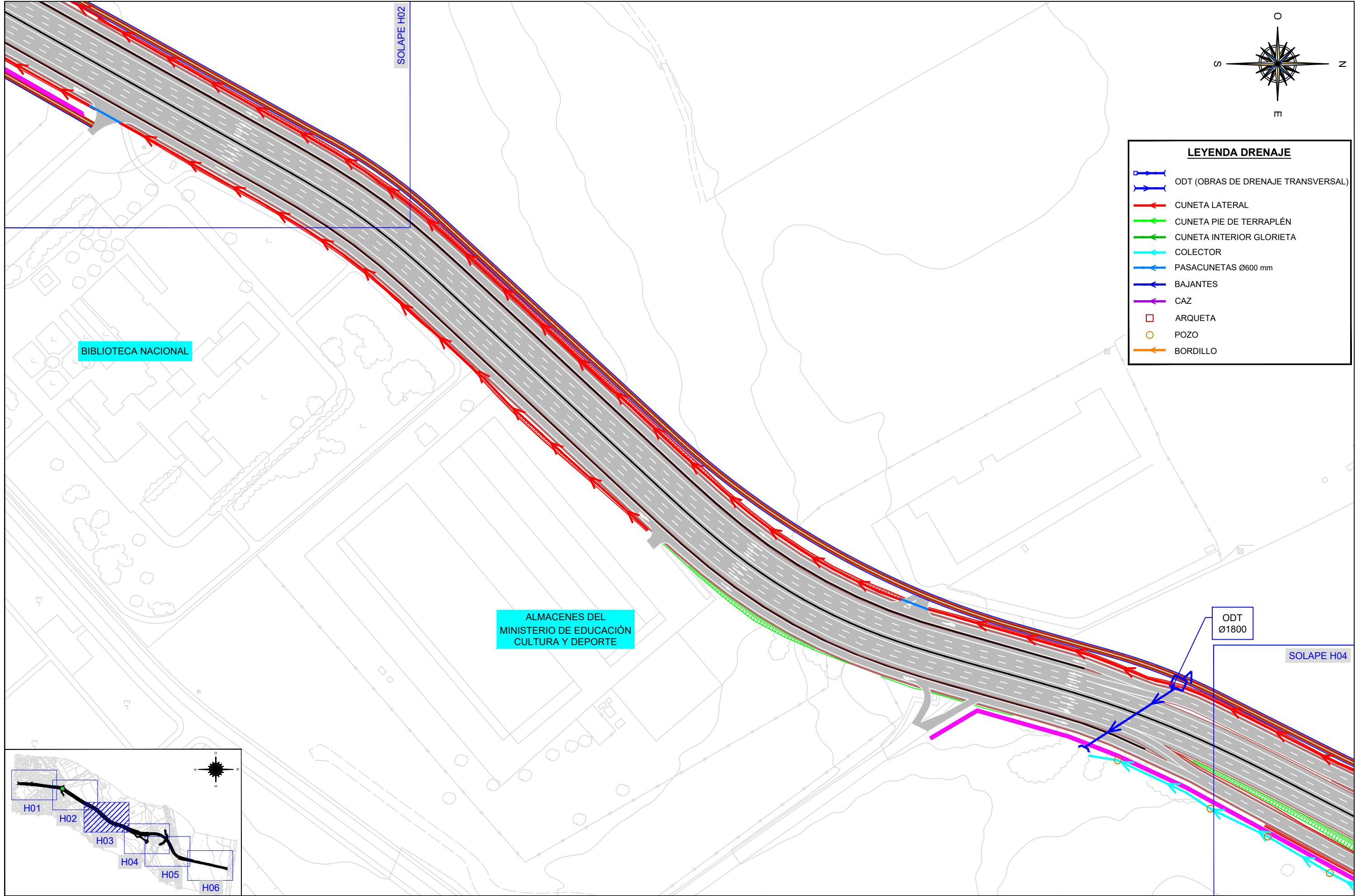


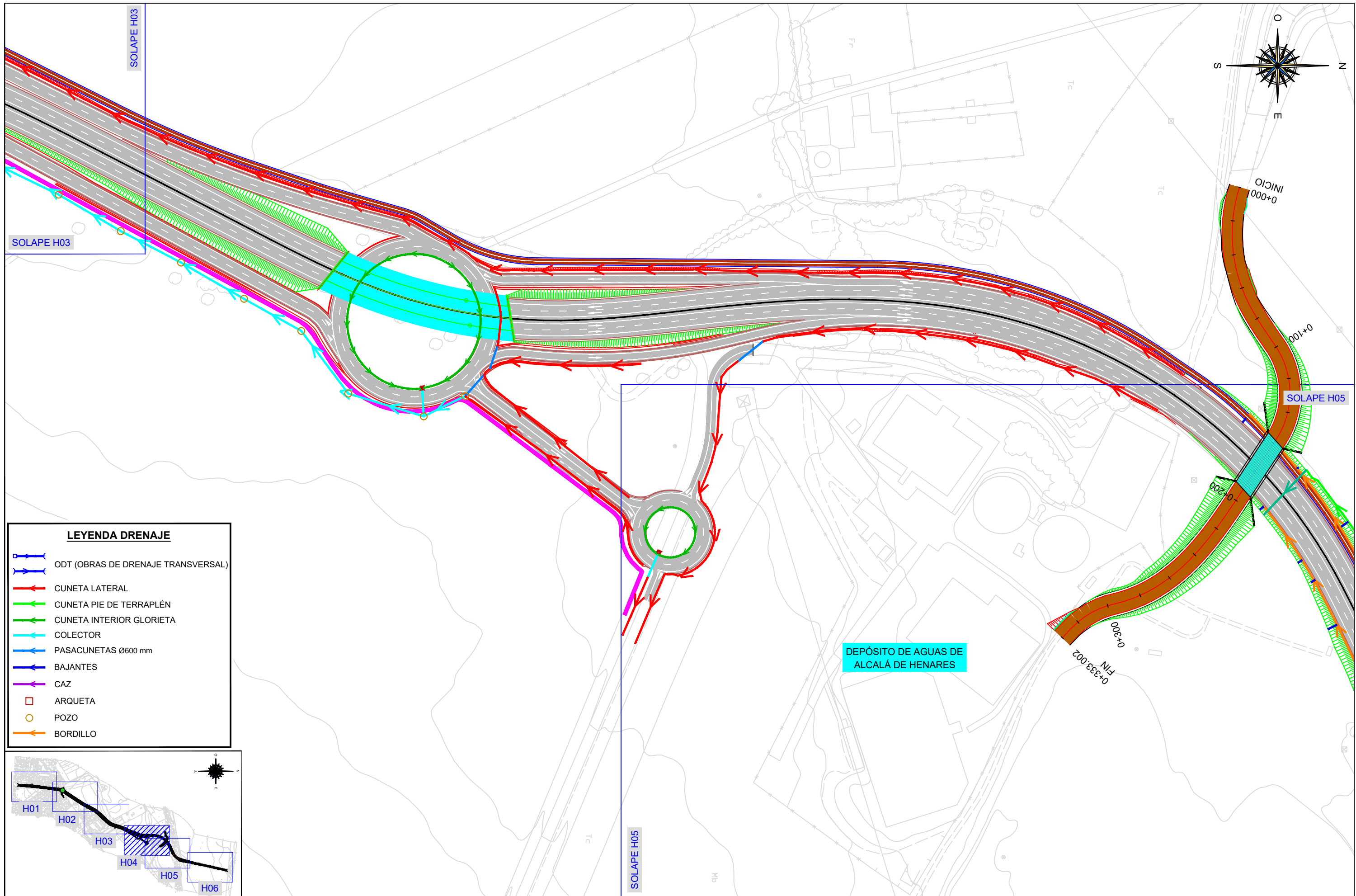
**LEYENDA DRENAJE**

- ODT (OBRAS DE DRENAJE TRANSVERSAL)
- CUNETA LATERAL
- CUNETA PIE DE TERRAPLÉN
- CUNETA INTERIOR GLORIETA
- COLECTOR
- PASACUNETAS Ø600 mm
- BAJANTES
- CAZ
- ARQUETA
- POZO
- BORDILLO



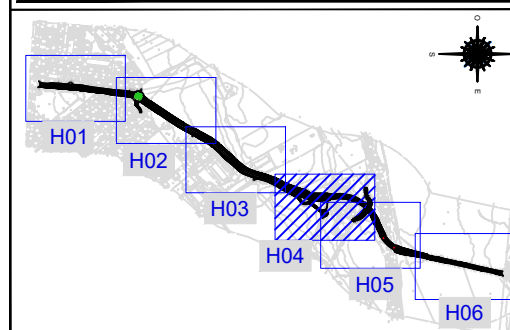




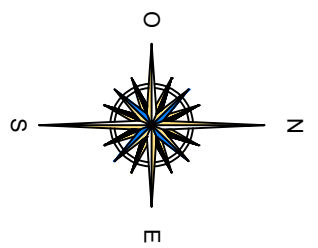
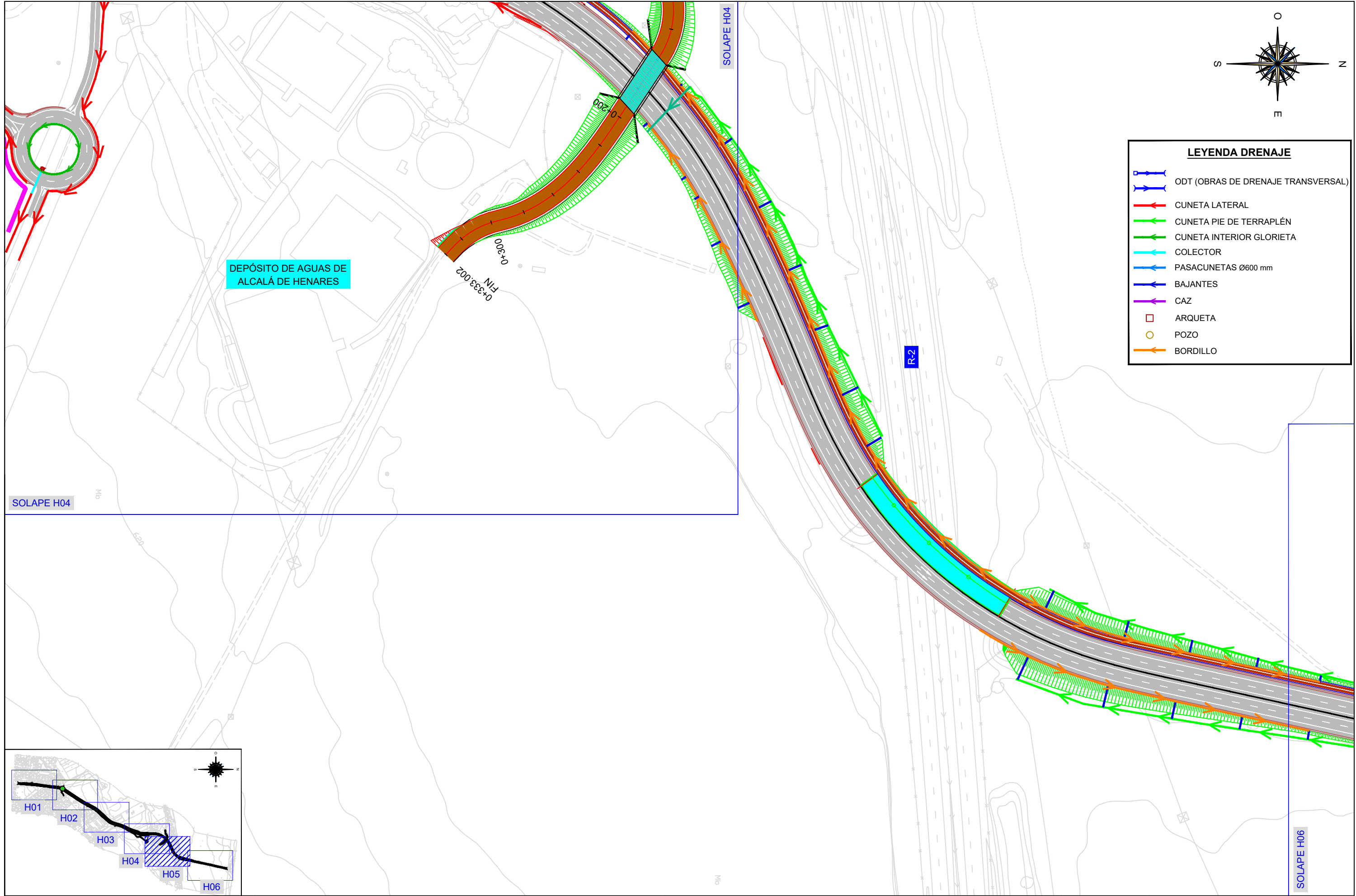


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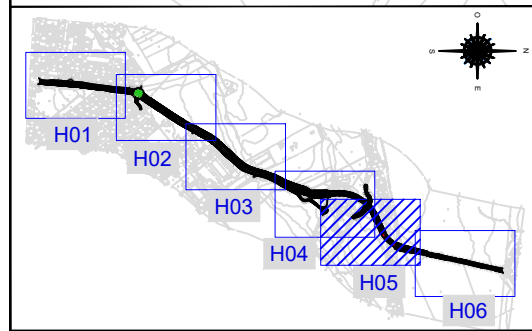
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- CUNETA LATERAL
- CUNETA PIE DE TERRAPLÉN
- CUNETA INTERIOR GLORIETA
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- ARQUETA
- POZO
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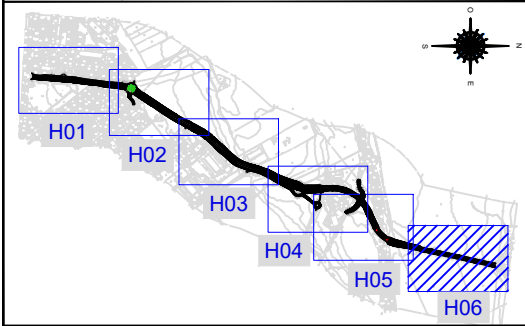
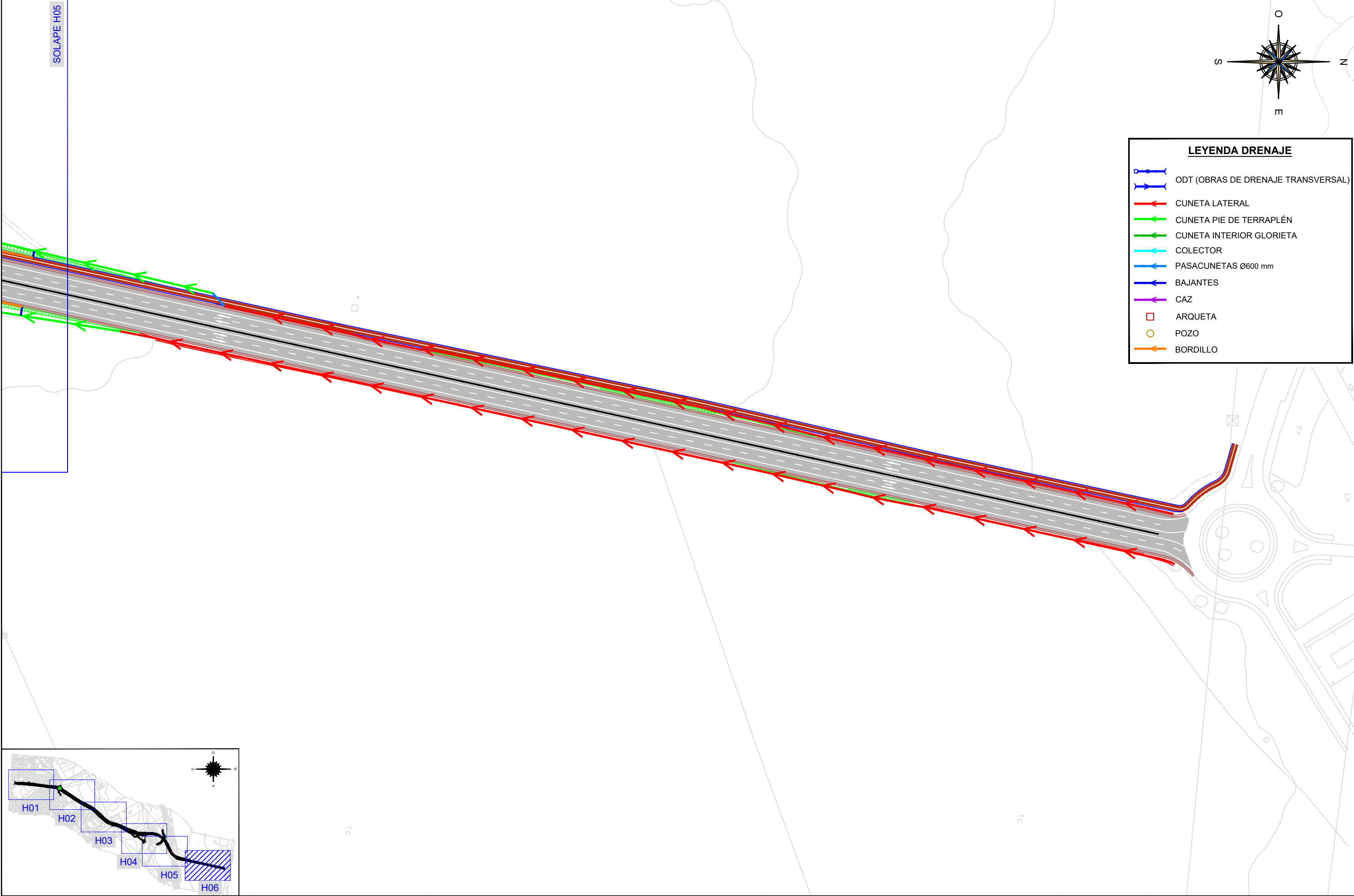


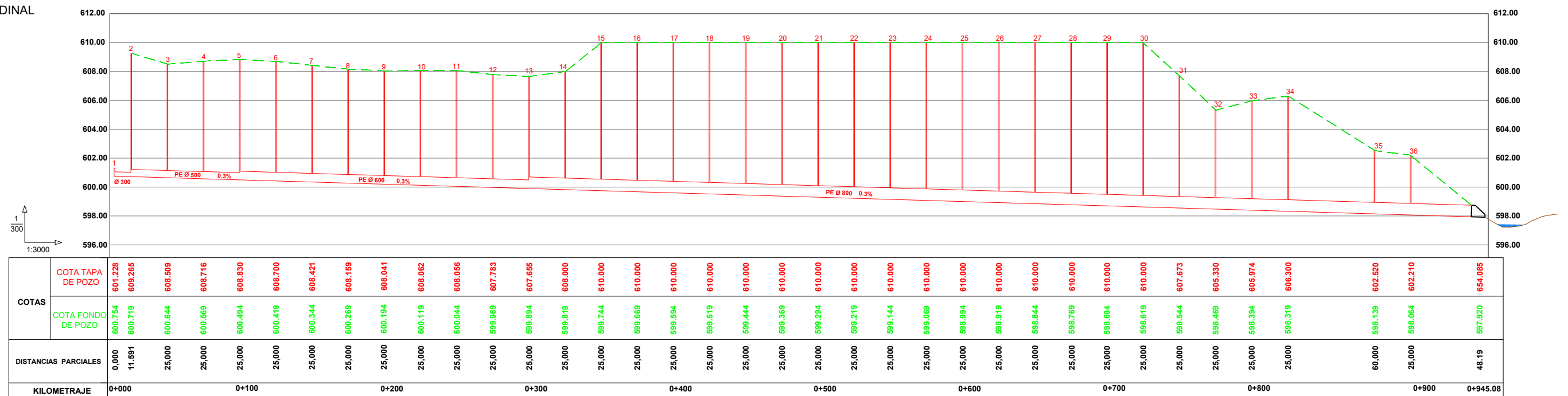
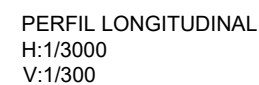
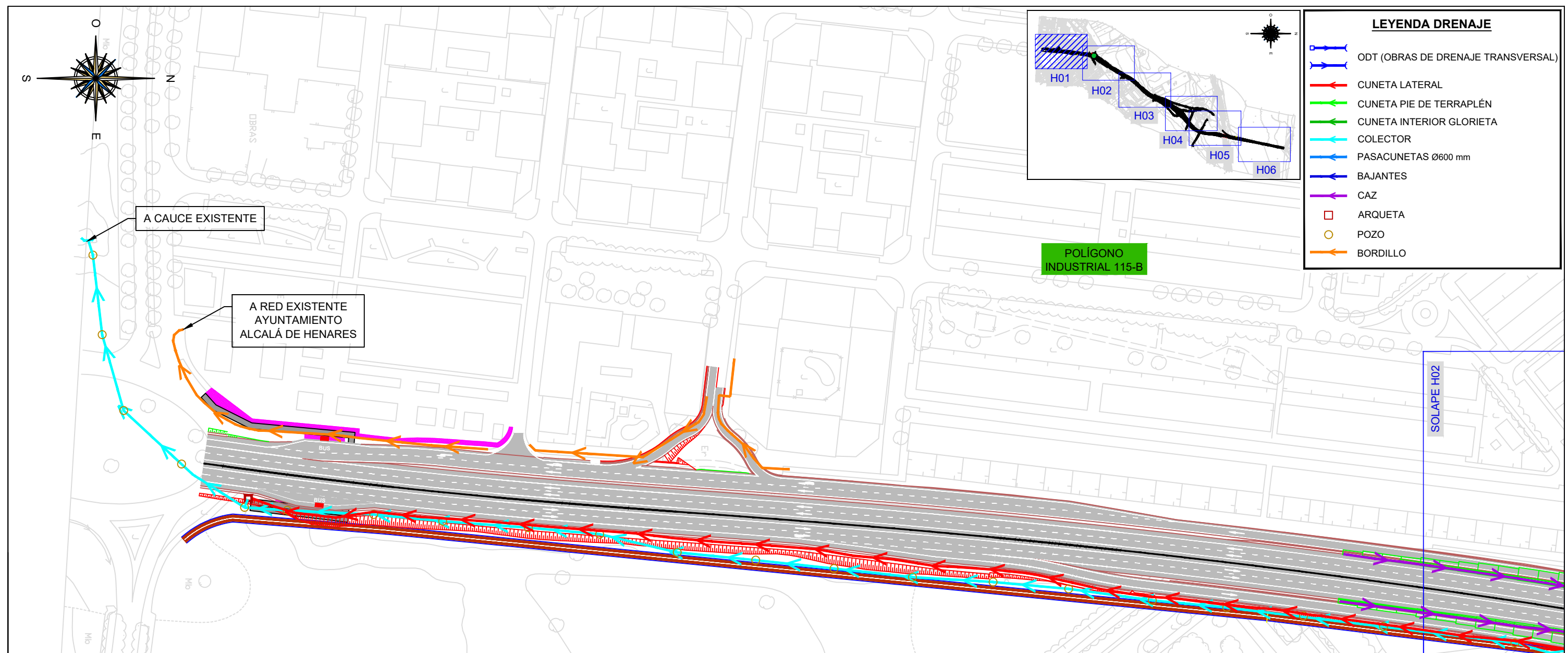


LEYENDA DRENAJE	
	ODT (OBRAS DE DRENAJE TRANSVERSAL)
	CUNETETA LATERAL
	CUNETETA PIE DE TERRAPLÉN
	CUNETETA INTERIOR GLORIETA
	COLECTOR
	PASACUNETAS Ø600 mm
	BAJANTES
	CAZ
	ARQUETA
	POZO
	BORDILLO

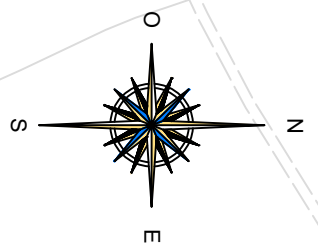
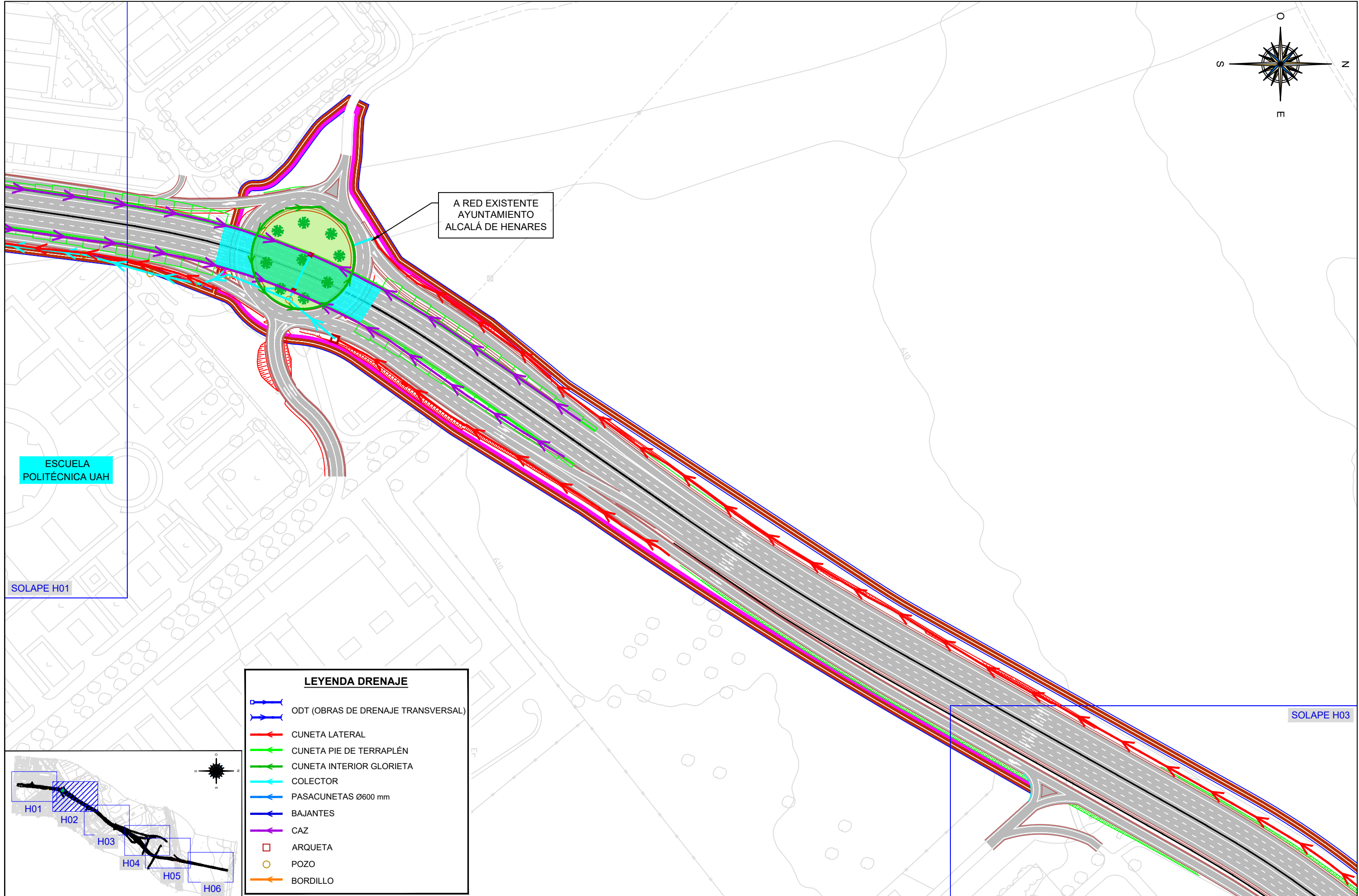


<b>ORGANISMO</b> 	<b>CONSULTOR</b> 	<b>AUTOR DEL ESTUDIO</b>  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023	<b>DESIGNACIÓN</b> DRENAJE ALTERNATIVA 3	<b>Nº PLANO</b> 08-03
					<b>FICHERO</b> 08-03.dwg		HOJA 5 DE 6



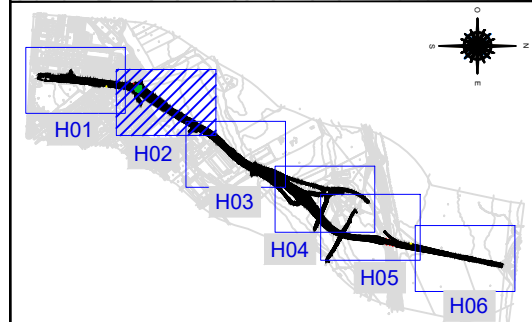


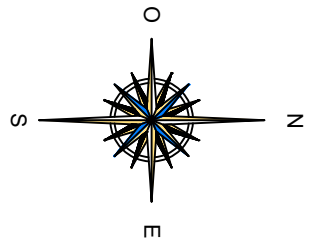
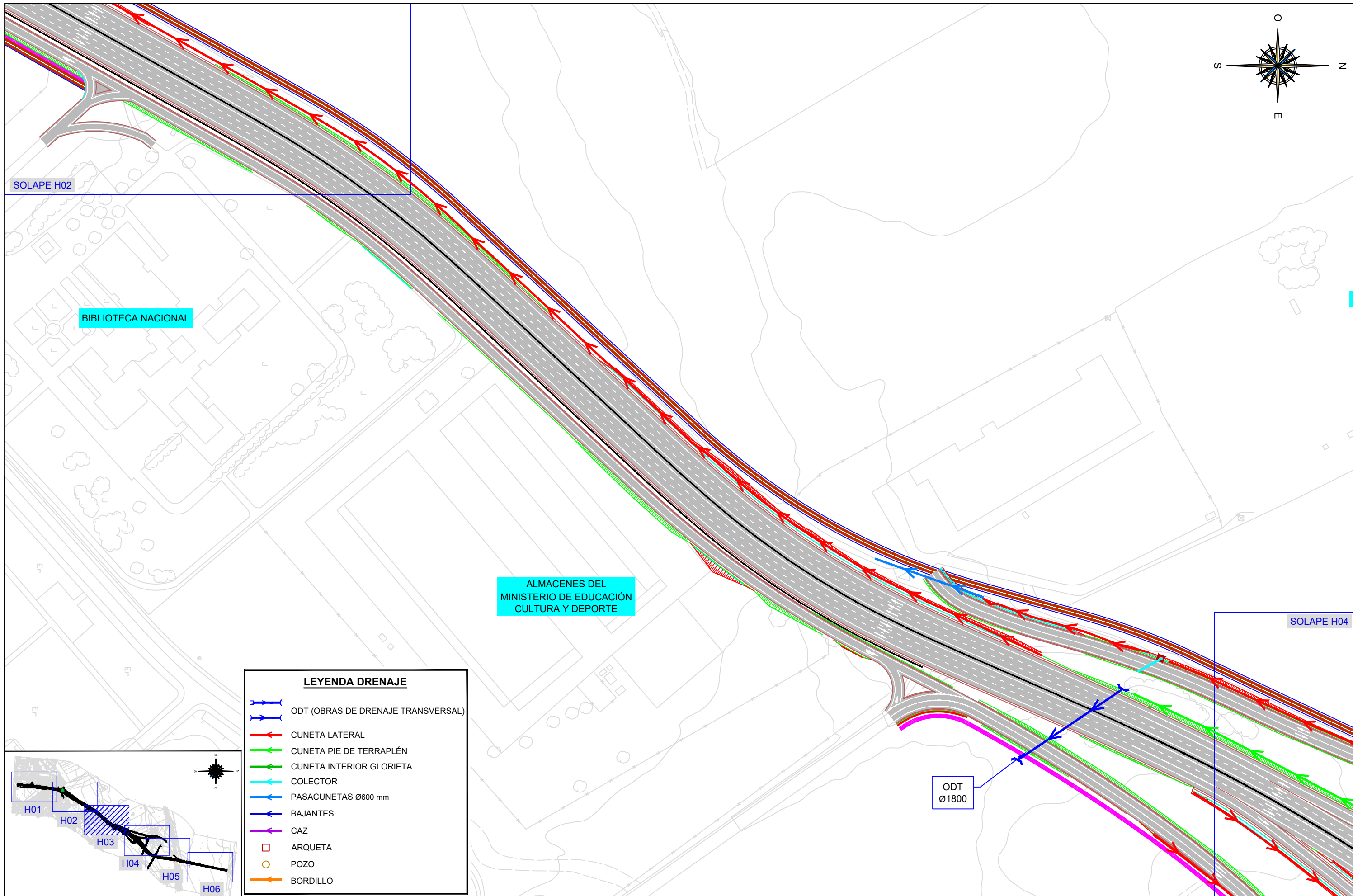




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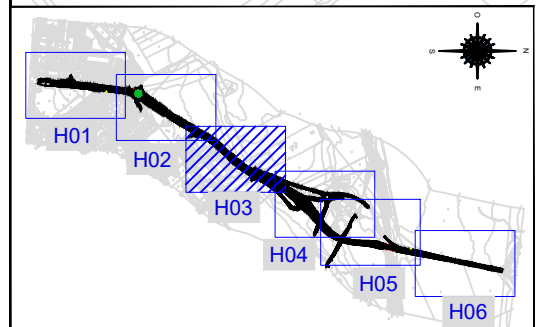
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- CUNETA LATERAL
- CUNETA PIE DE TERRAPLÉN
- CUNETA INTERIOR GLORIETA
- COLECTOR
- PASACUNETAS Ø600 mm
- BAJANTES
- CAZ
- ARQUETA
- POZO
- BORDILLO



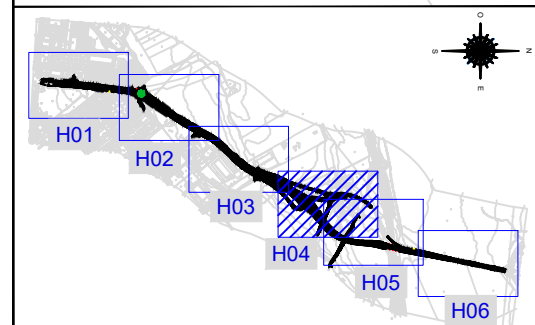
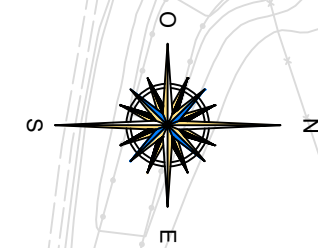
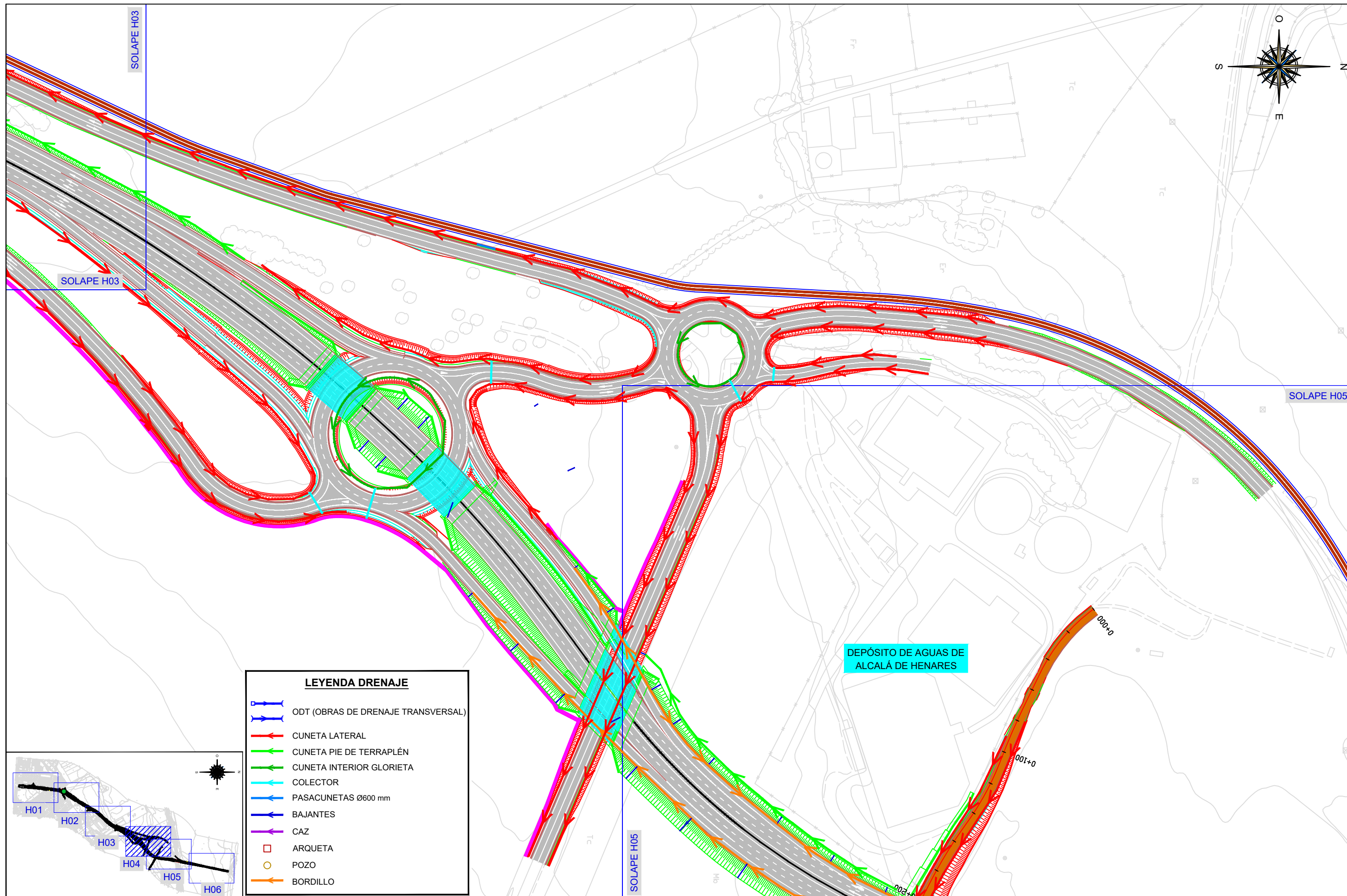


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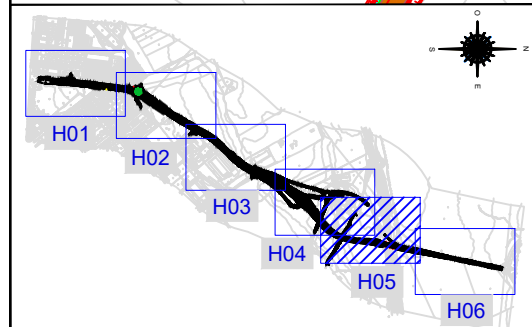
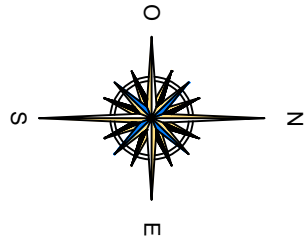
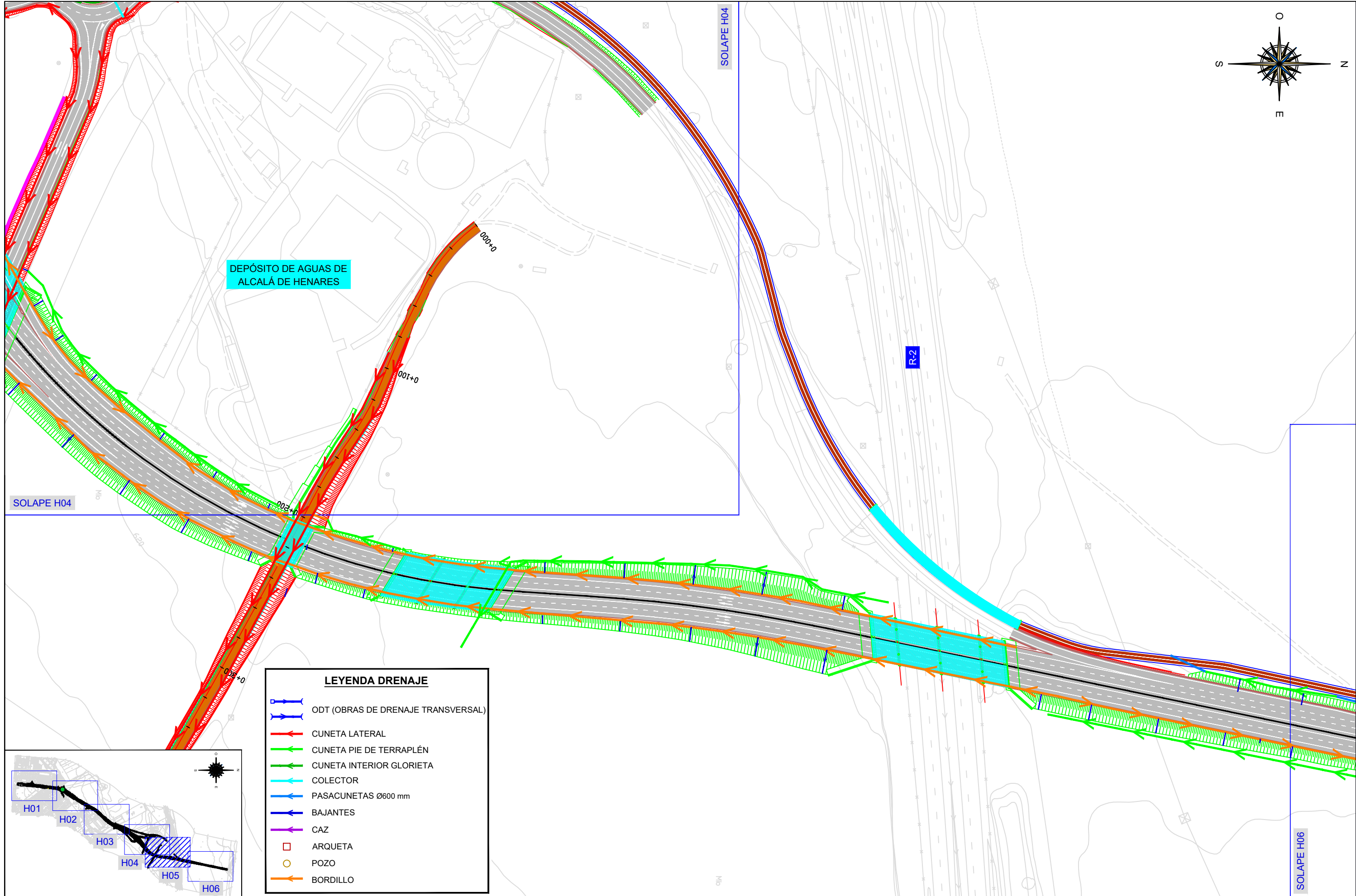
- ODT (OBRAS DE DRENAJE TRANSVERSAL)
- CUNETAS LATERALES
- CUNETAS PIES DE TERRAPLÉN
- CUNETAS INTERIORES GLORIETA
- COLECTOR
- PASACUNETAS Ø600 mm
- BAJANTES
- CAZ
- ARQUETA
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- BORDILLO







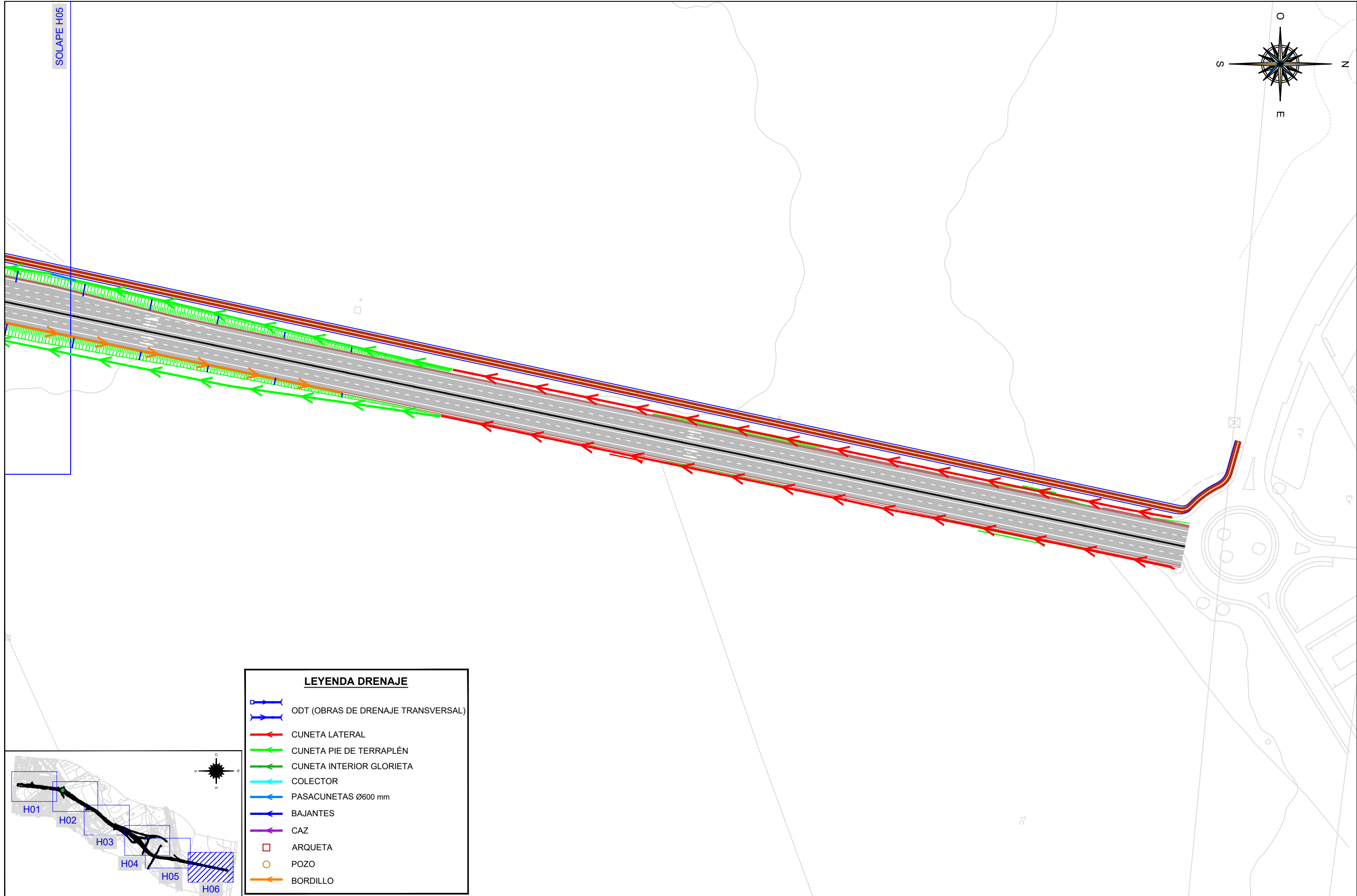
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	CUNETAS PISO DE TERRAPLEN
	CUNETAS INTERIORES GLORIETA
	COLECTOR
	PASACUNETAS Ø600 mm
	BAJANTES
	CAZ
	ARQUETA
	POZO
	BORDILLO



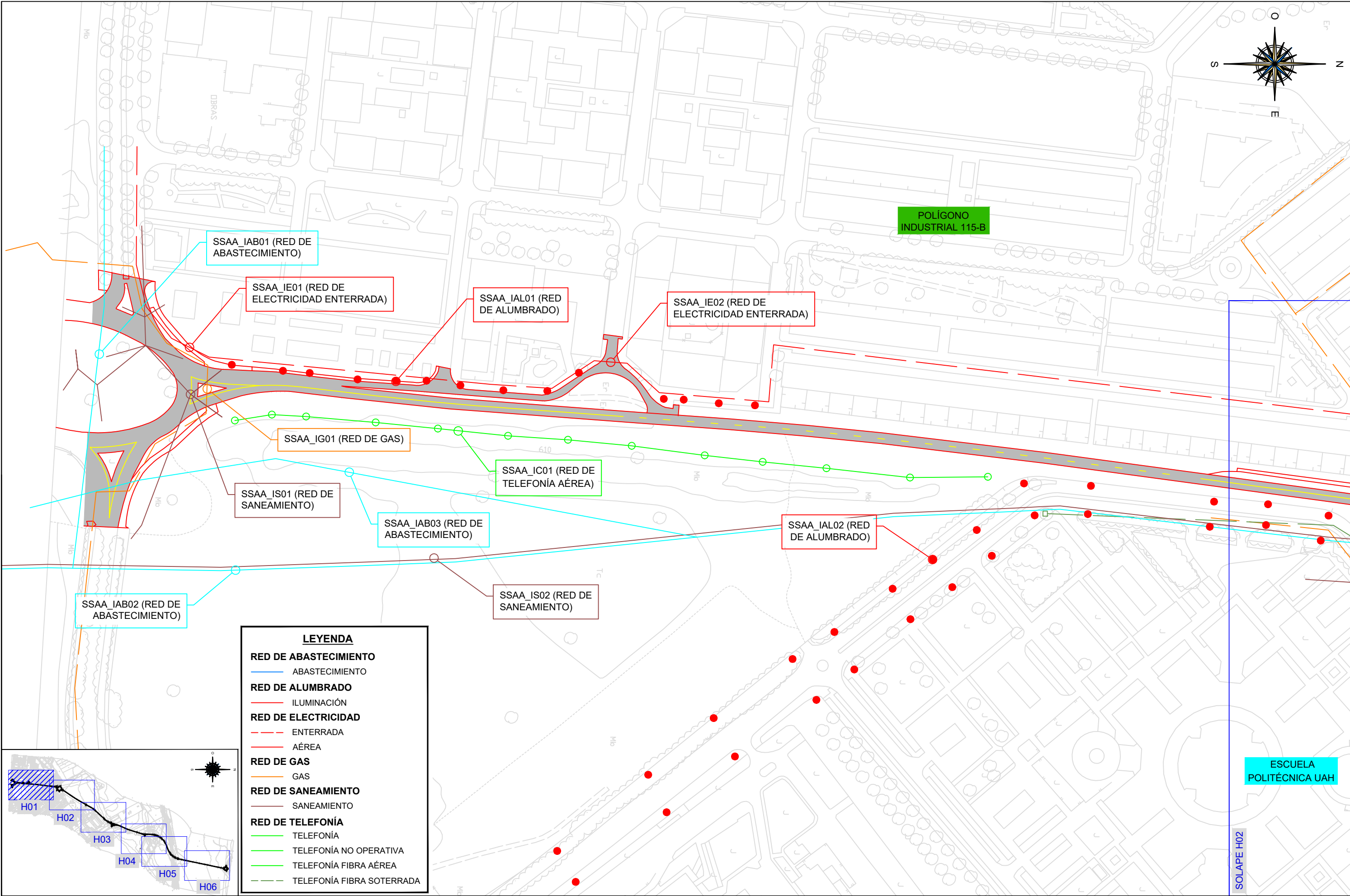
**LEYENDA DRENAJE**

- ODT (OBRAS DE DRENAJE TRANSVERSAL)
- CUNETA LATERAL
- CUNETA PIE DE TERRAPLÉN
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- BAJANTES
- CAZ
- ARQUETA
- POZO
- BORDILLO









**LEYENDA**

**RED DE ABASTECIMIENTO**  
— ABASTECIMIENTO

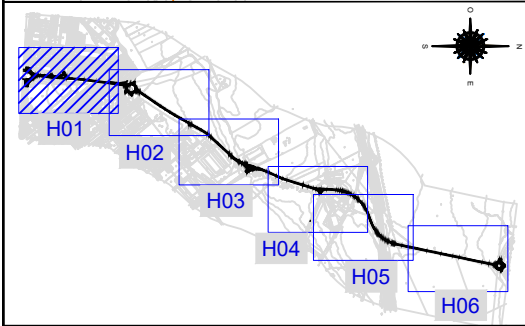
**RED DE ALUMBRADO**  
— ILUMINACIÓN

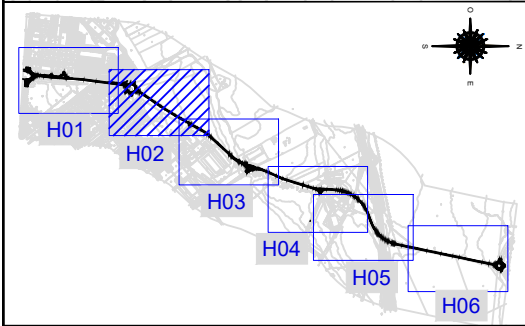
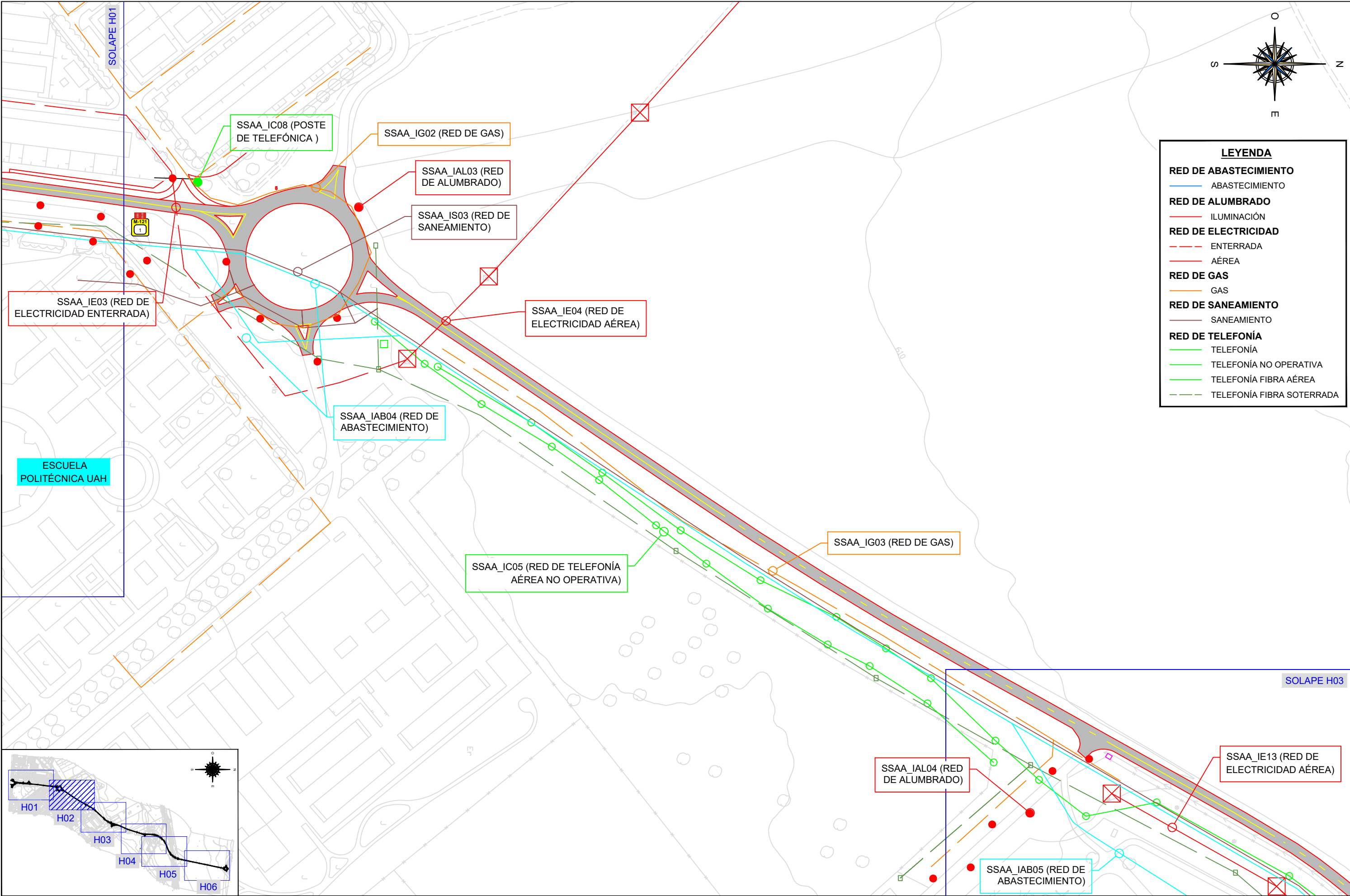
**RED DE ELECTRICIDAD**  
- - - ENTERRADA  
— AÉREA

**RED DE GAS**  
— GAS

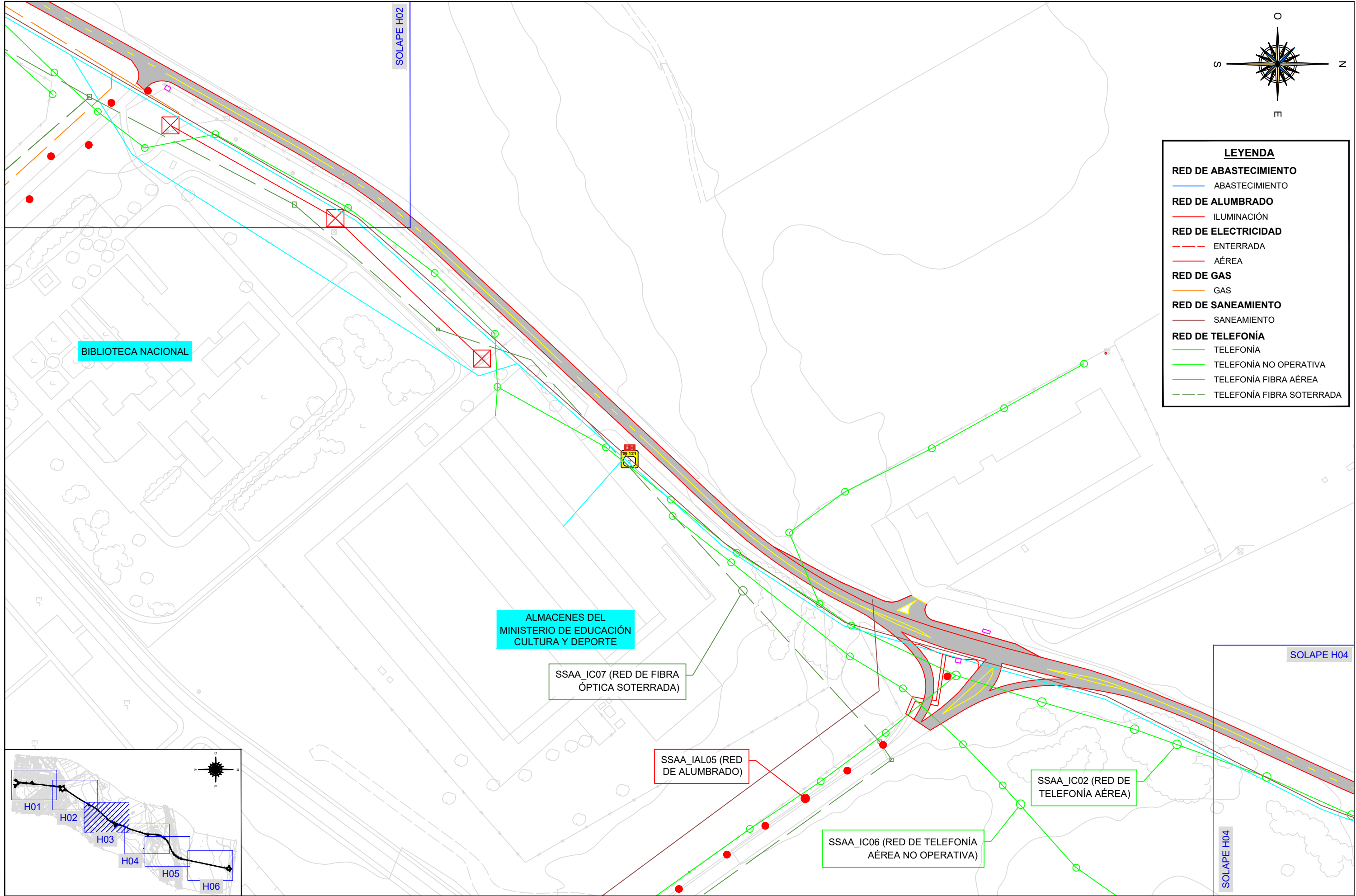
**RED DE SANEAMIENTO**  
— SANEAMIENTO

**RED DE TELEFONÍA**  
— TELEFONÍA  
— TELEFONÍA NO OPERATIVA  
— TELEFONÍA FIBRA AÉREA  
- - - TELEFONÍA FIBRA SOTERRADA









LEYENDA

RED DE ABASTECIMIENTO

ABASTECIMIENTO

RED DE ALUMBRADO

ILUMINACIÓN

RED DE ELECTRICIDAD

ENTERRADA

AÉREA

RED DE GAS

GAS

RED DE SANEAMIENTO

SANEAMIENTO

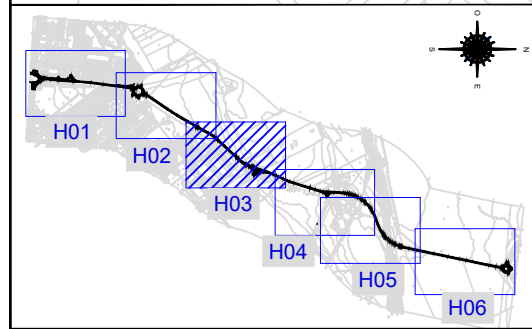
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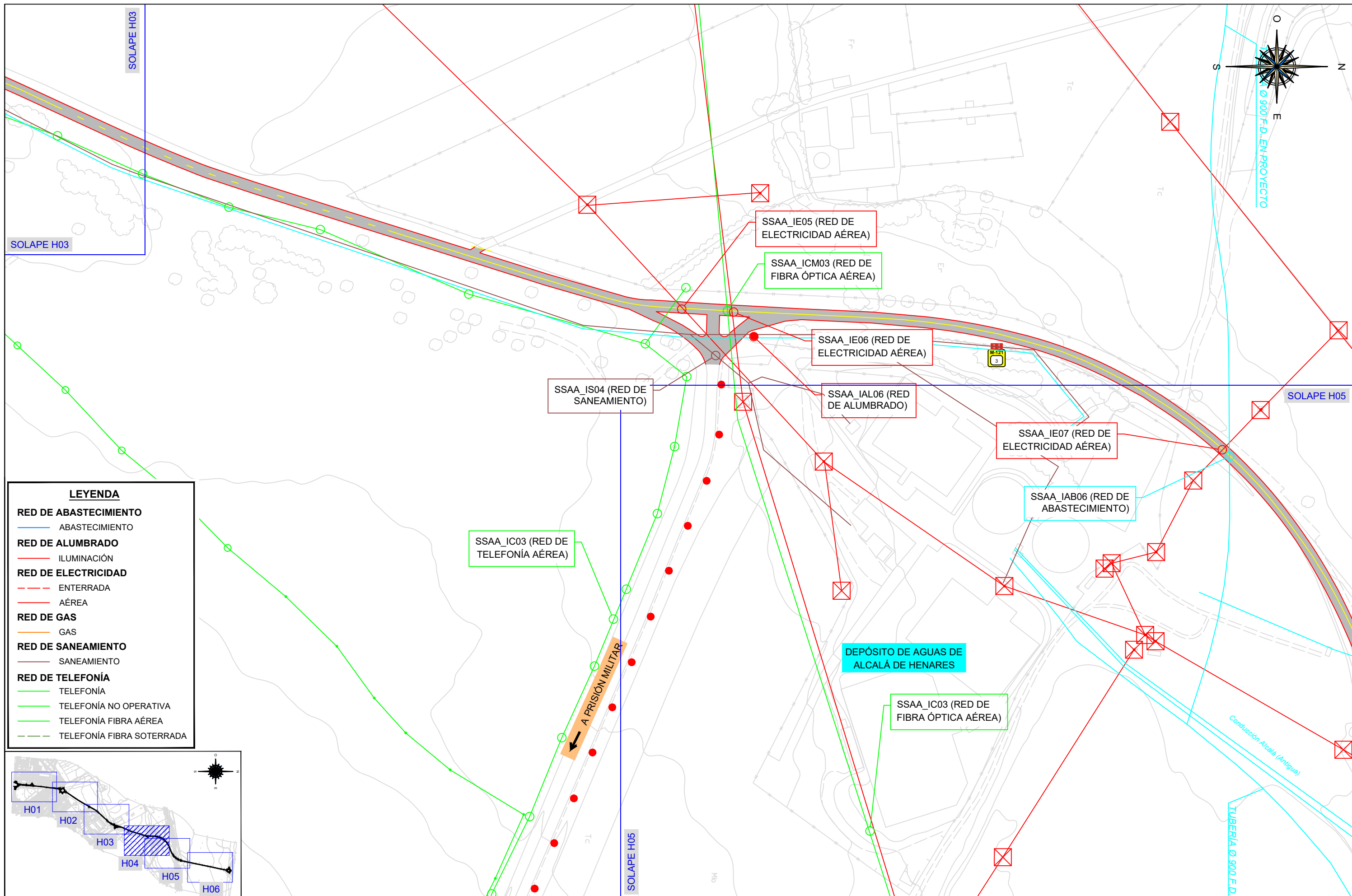
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TELEFONÍA NO OPERATIVA

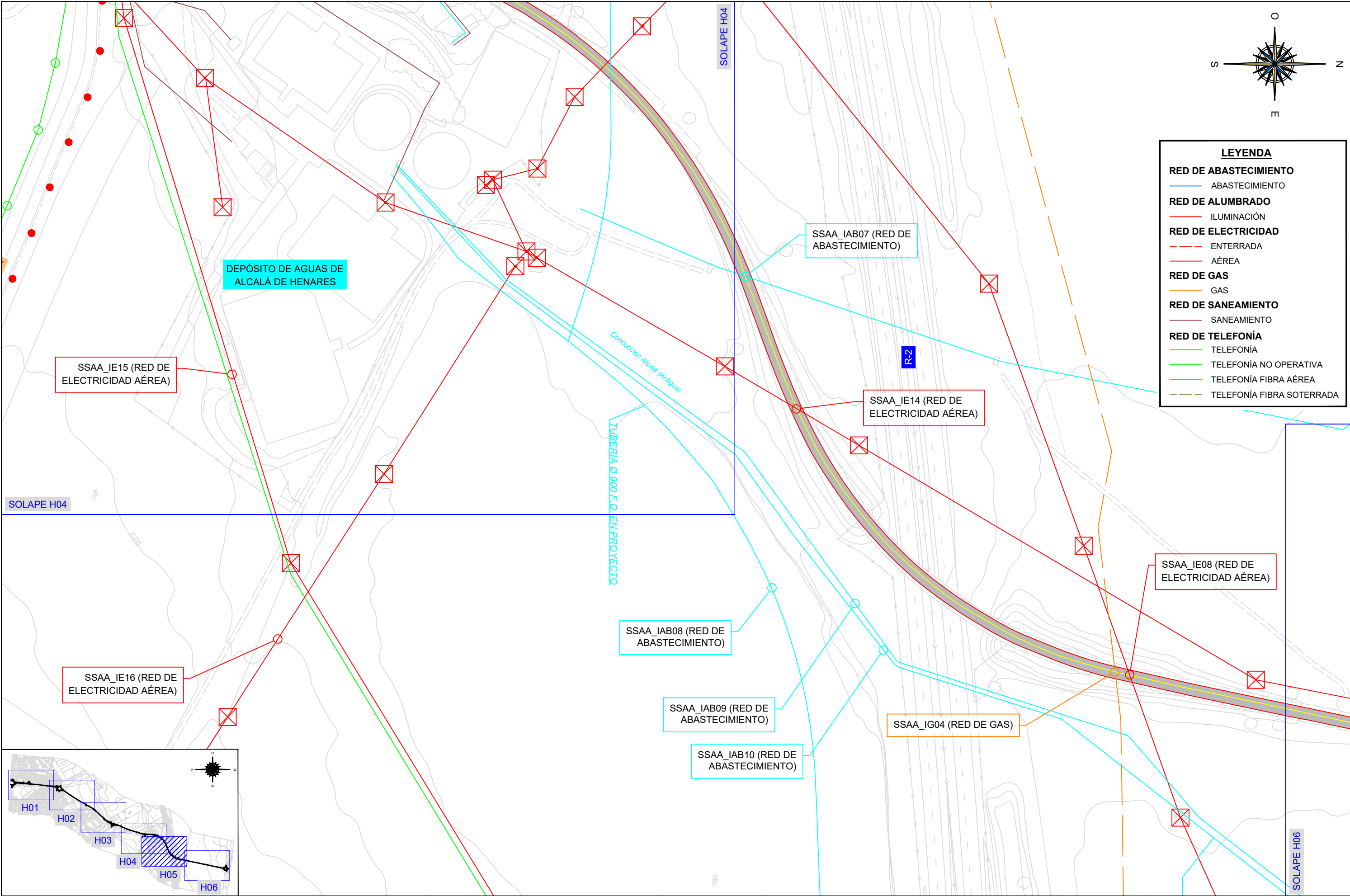
TELEFONÍA FIBRA AÉREA

TELEFONÍA FIBRA SOTERRADA

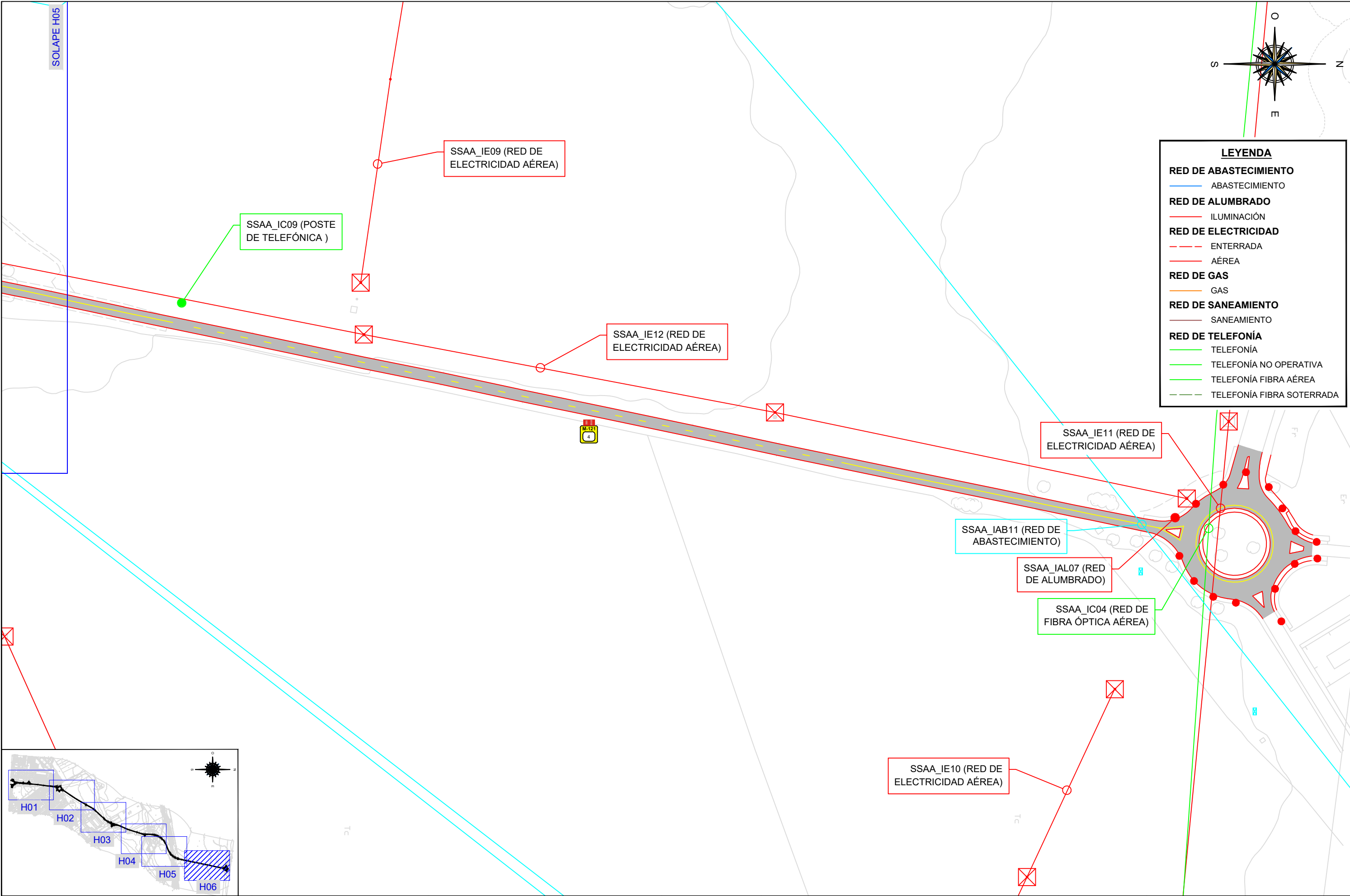












**LEYENDA**

**RED DE ABASTECIMIENTO**

- ABASTECIMIENTO

**RED DE ALUMBRADO**

- ILUMINACIÓN

**RED DE ELECTRICIDAD**

- ENTERRADA
- AÉREA

**RED DE GAS**

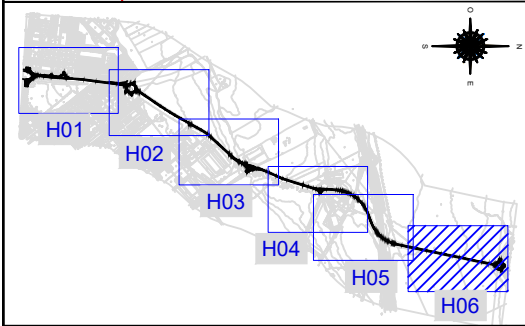
- GAS

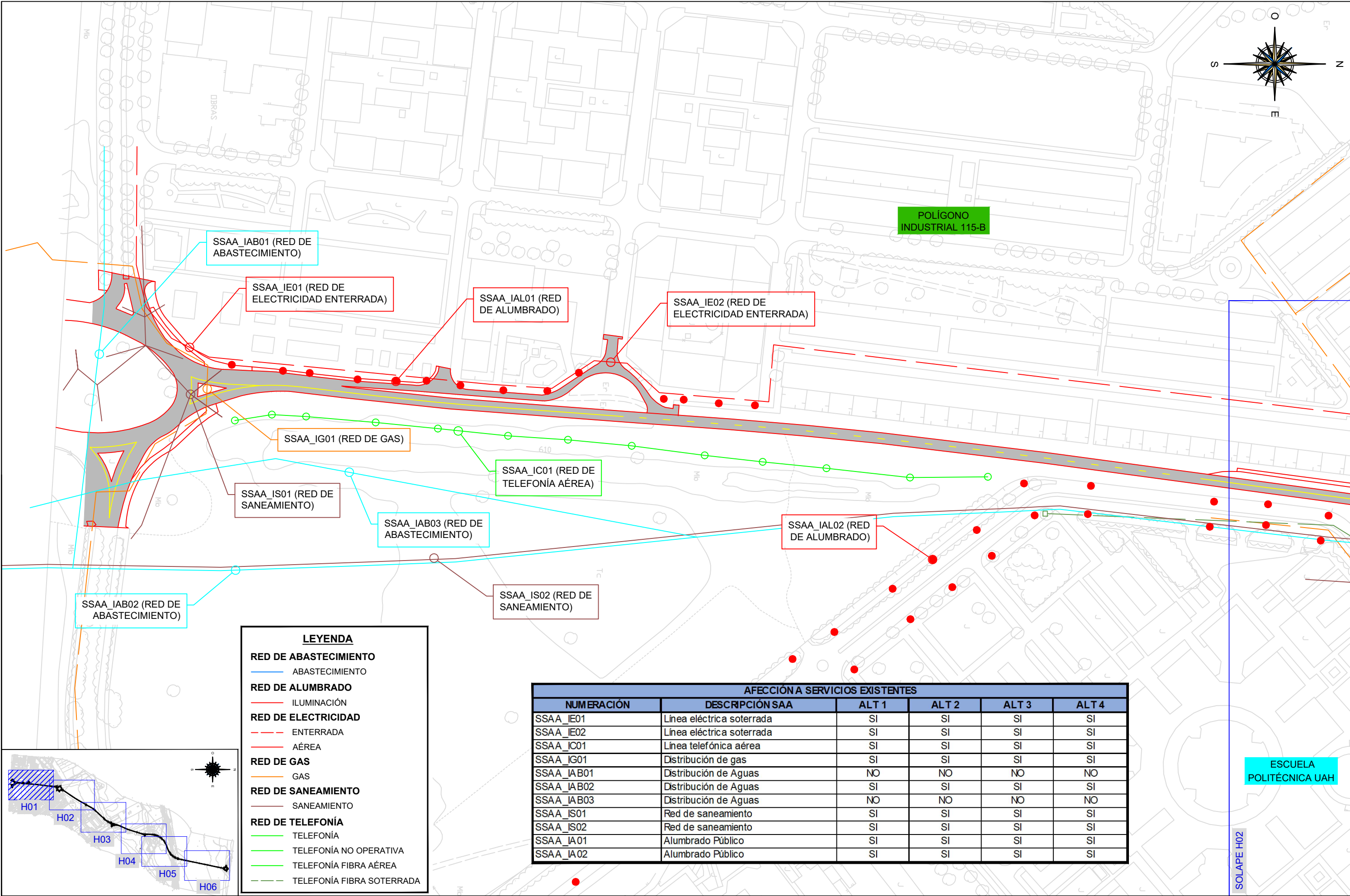
**RED DE SANEAMIENTO**

- SANEAMIENTO

**RED DE TELEFONÍA**

- TELEFONÍA
- TELEFONÍA NO OPERATIVA
- TELEFONÍA FIBRA AÉREA
- TELEFONÍA FIBRA SOTERRADA





**LEYENDA**

RED DE ABASTECIMIENTO

ABASTECIMIENTO

RED DE ALUMBRADO

ILUMINACIÓN

RED DE ELECTRICIDAD

ENTERRADA

AÉREA

RED DE GAS

GAS

RED DE SANEAMIENTO

SANEAMIENTO

RED DE TELEFONÍA

TELEFONÍA

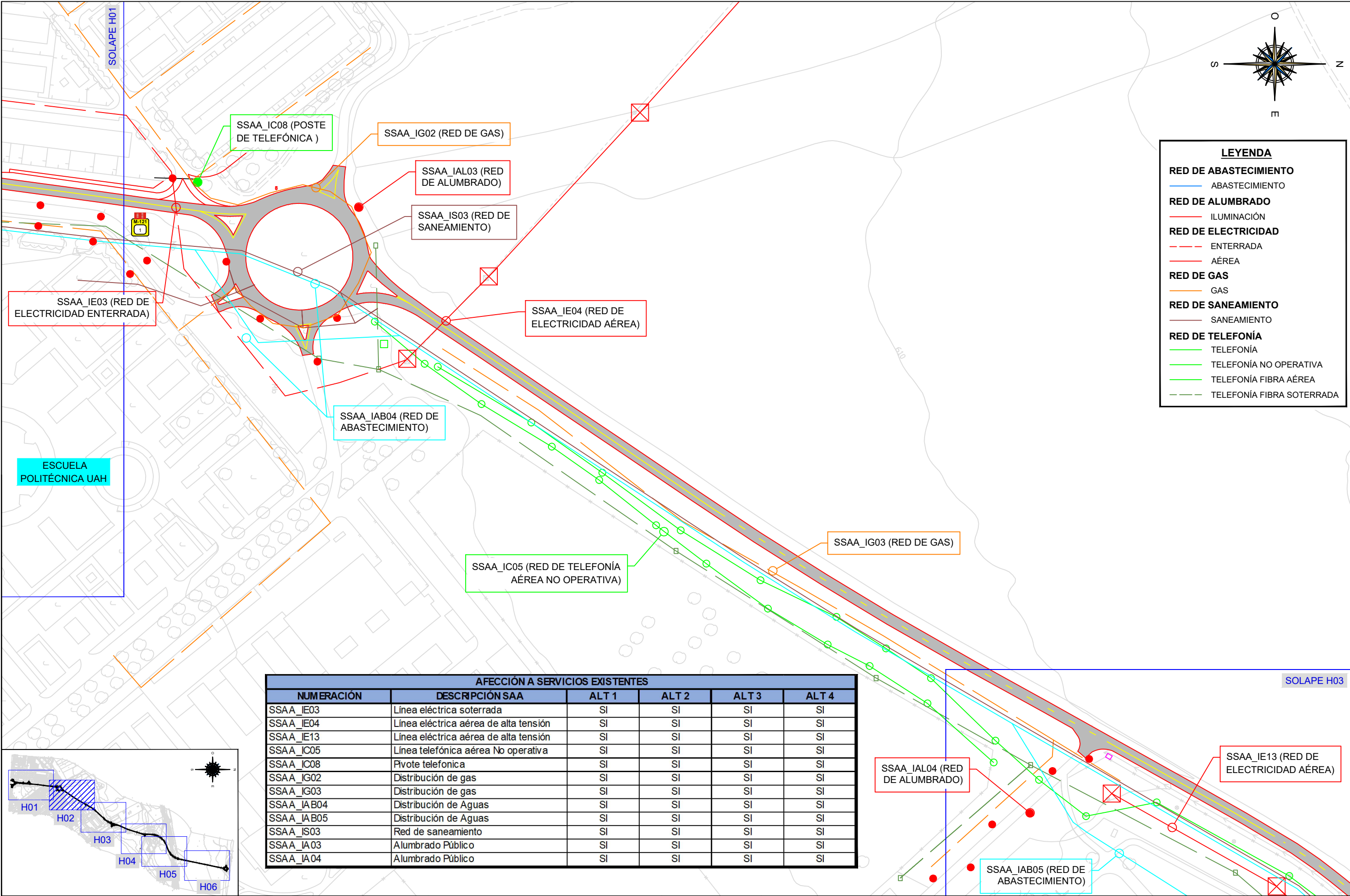
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TELEFONÍA FIBRA AÉREA

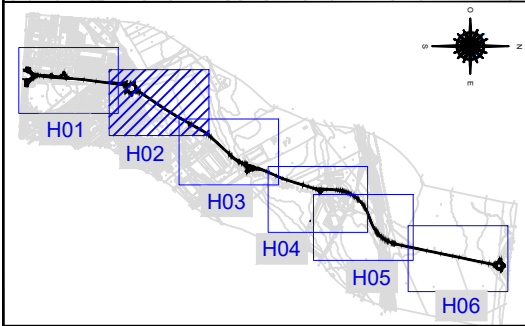
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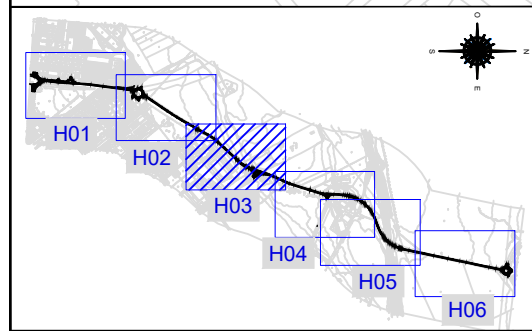
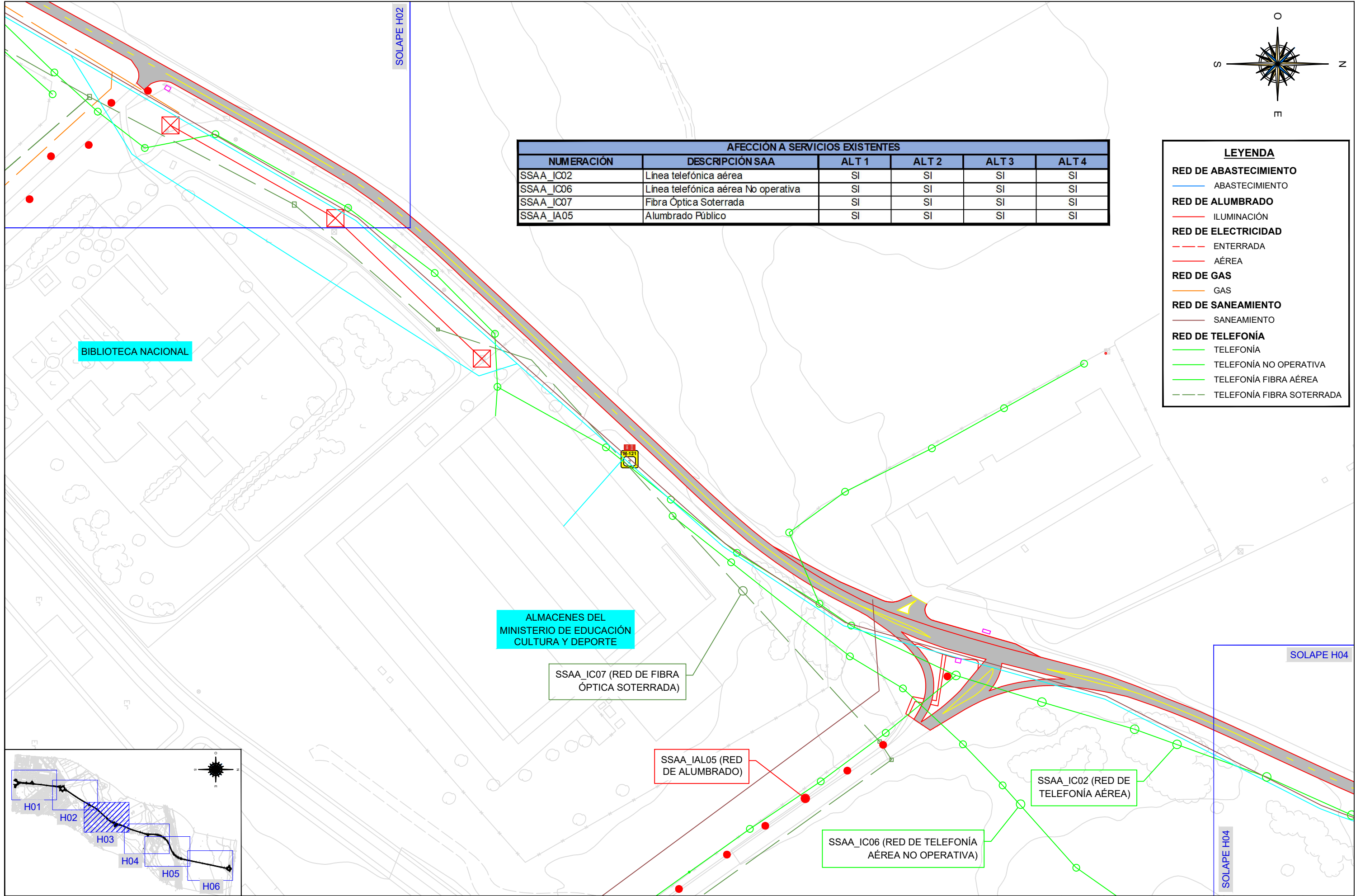
AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE01	Línea eléctrica soterrada	SI	SI	SI	SI
SSAA_IE02	Línea eléctrica soterrada	SI	SI	SI	SI
SSAA_IC01	Línea telefónica aérea	SI	SI	SI	SI
SSAA_IG01	Distribución de gas	SI	SI	SI	SI
SSAA_IAB01	Distribución de Aguas	NO	NO	NO	NO
SSAA_IAB02	Distribución de Aguas	SI	SI	SI	SI
SSAA_IAB03	Distribución de Aguas	NO	NO	NO	NO
SSAA_IS01	Red de saneamiento	SI	SI	SI	SI
SSAA_IS02	Red de saneamiento	SI	SI	SI	SI
SSAA_IA01	Alumbrado Público	SI	SI	SI	SI
SSAA_IA02	Alumbrado Público	SI	SI	SI	SI



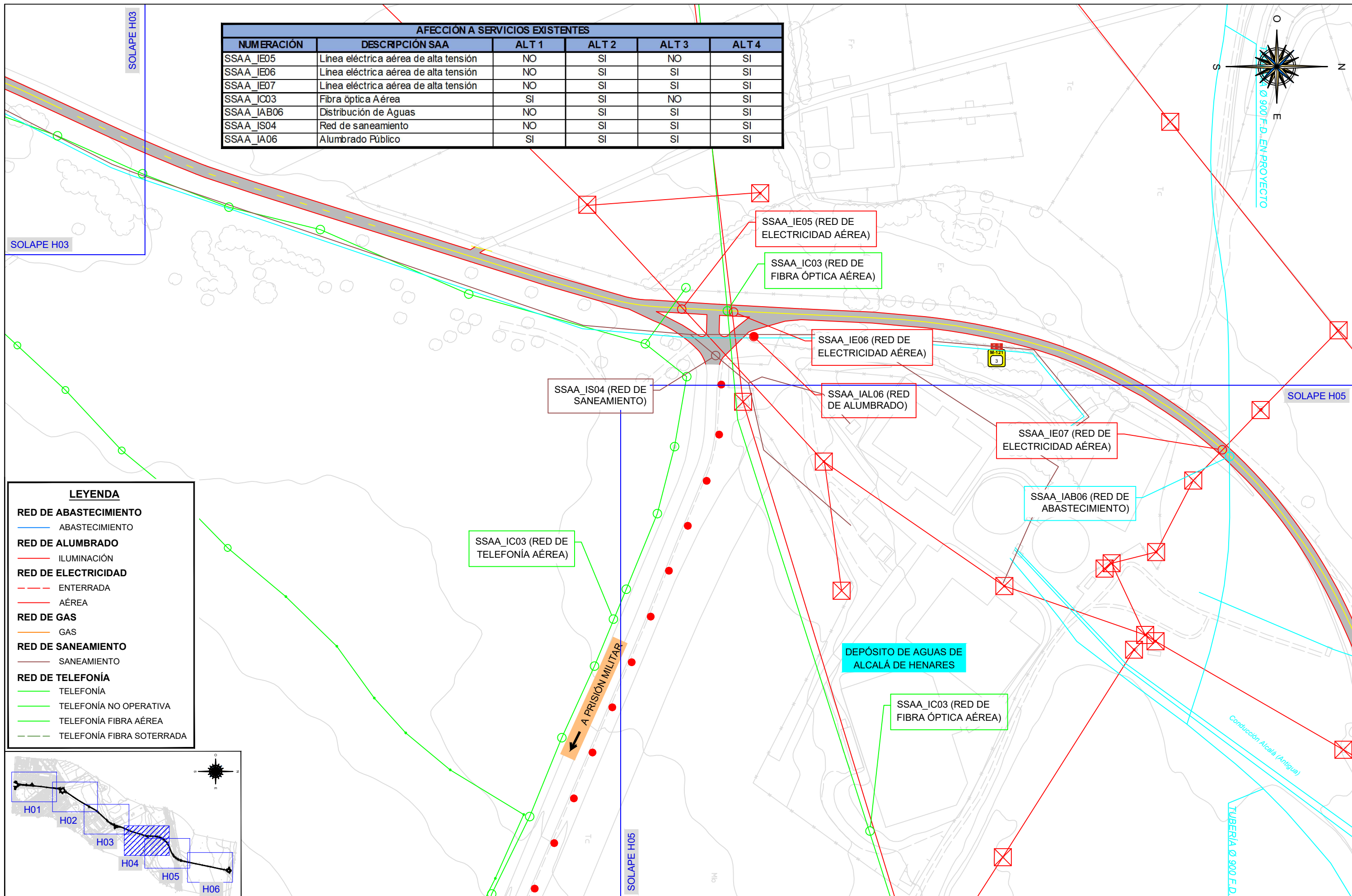


AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE03	Línea eléctrica soterrada	SI	SI	SI	SI
SSAA_IE04	Línea eléctrica aérea de alta tensión	SI	SI	SI	SI
SSAA_IE13	Línea eléctrica aérea de alta tensión	SI	SI	SI	SI
SSAA_IC05	Línea telefónica aérea No operativa	SI	SI	SI	SI
SSAA_IC08	Pivote telefonica	SI	SI	SI	SI
SSAA_IG02	Distribución de gas	SI	SI	SI	SI
SSAA_IG03	Distribución de gas	SI	SI	SI	SI
SSAA_IAB04	Distribución de Aguas	SI	SI	SI	SI
SSAA_IAB05	Distribución de Aguas	SI	SI	SI	SI
SSAA_IS03	Red de saneamiento	SI	SI	SI	SI
SSAA_IA03	Alumbrado Público	SI	SI	SI	SI
SSAA_IA04	Alumbrado Público	SI	SI	SI	SI









AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE05	Línea eléctrica aérea de alta tensión	NO	SI	NO	SI
SSAA_IE06	Línea eléctrica aérea de alta tensión	NO	SI	SI	SI
SSAA_IE07	Línea eléctrica aérea de alta tensión	NO	SI	SI	SI
SSAA_IC03	Fibra óptica Aérea	SI	SI	NO	SI
SSAA_IAB06	Distribución de Aguas	NO	SI	SI	SI
SSAA_IS04	Red de saneamiento	NO	SI	SI	SI
SSAA_IA06	Alumbrado Público	SI	SI	SI	SI

LEYENDA

RED DE ABASTECIMIENTO

ABASTECIMIENTO

RED DE ALUMBRADO

ILUMINACIÓN

RED DE ELECTRICIDAD

ENTERRADA

AÉREA

RED DE GAS

GAS

RED DE SANEAMIENTO

SANEAMIENTO

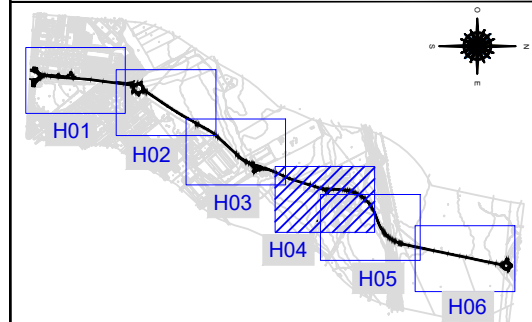
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TELEFONÍA

TELEFONÍA NO OPERATIVA

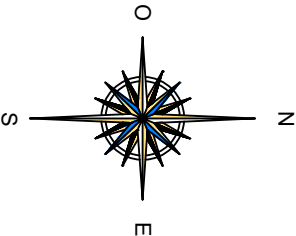
TELEFONÍA FIBRA AÉREA

TELEFONÍA FIBRA SOTERRADA





AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE08	Línea eléctrica aérea de alta tensión	SI	SI	SI	SI
SSAA_IE14	Línea eléctrica aérea de alta tensión	NO	SI	SI	NO
SSAA_IG04	Distribución de gas	SI	SI	SI	SI
SSAA_IAB07	Distribución de Aguas	NO	SI	SI	SI
SSAA_IAB08	Distribución de Aguas	SI	SI	NO	SI
SSAA_IAB09	Distribución de Aguas	SI	SI	NO	SI
SSAA_IAB10	Distribución de Aguas	SI	SI	NO	SI
SSAA_IE15	Línea eléctrica aérea de alta tensión	SI	SI	NO	SI
SSAA_IE16	Línea eléctrica aérea de alta tensión	SI	SI	NO	SI



LEYENDA

RED DE ABASTECIMIENTO

ABASTECIMIENTO

RED DE ALUMBRADO

ILUMINACIÓN

RED DE ELECTRICIDAD

ENTERRADA

AÉREA

RED DE GAS

GAS

RED DE SANEAMIENTO

SANEAMIENTO

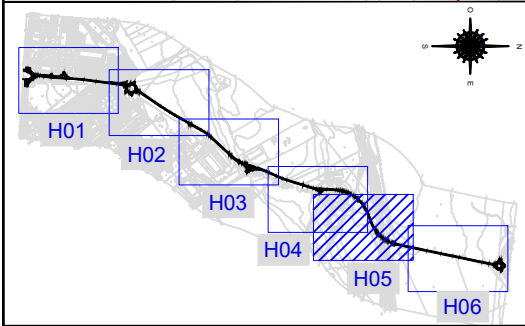
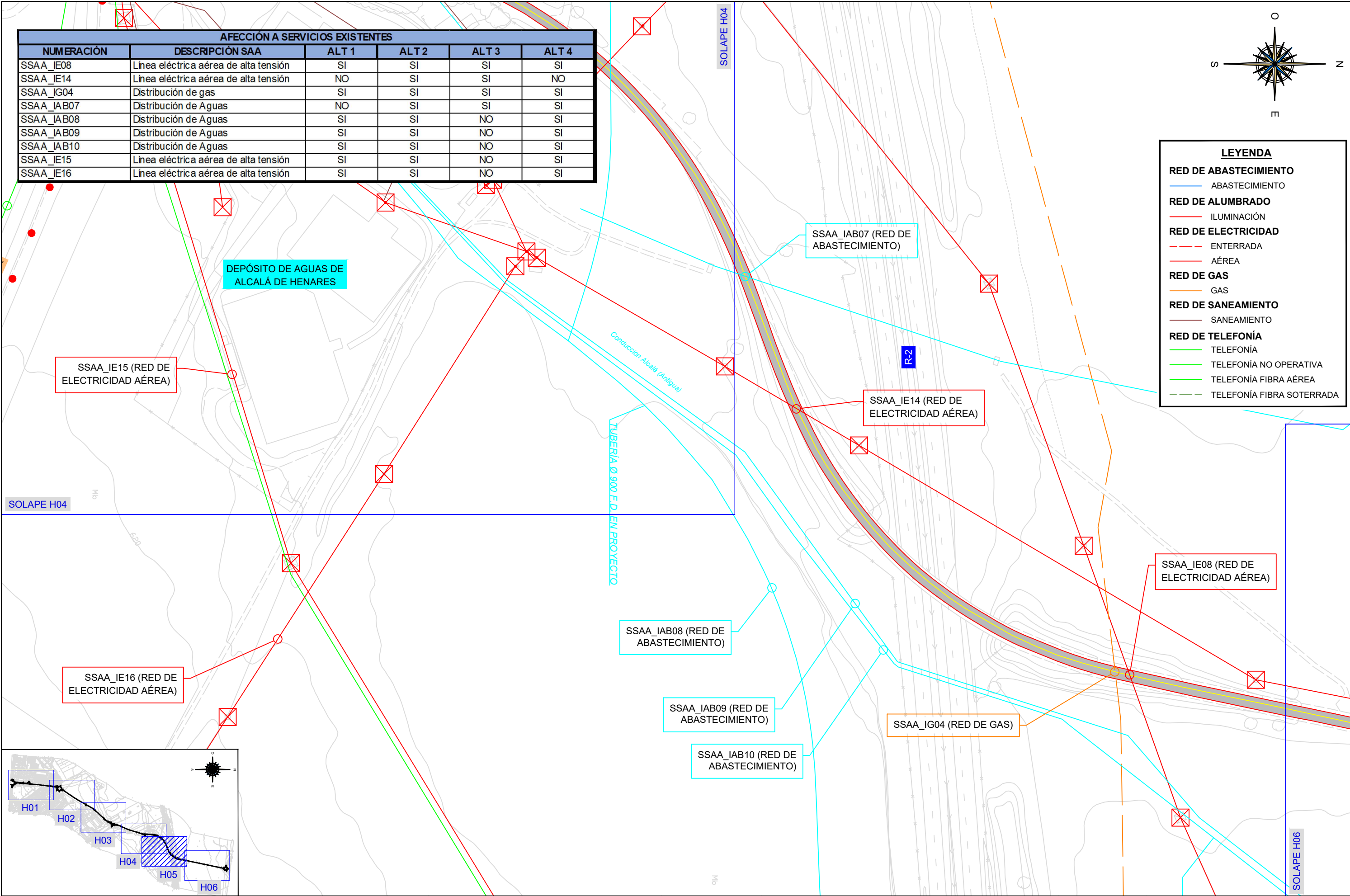
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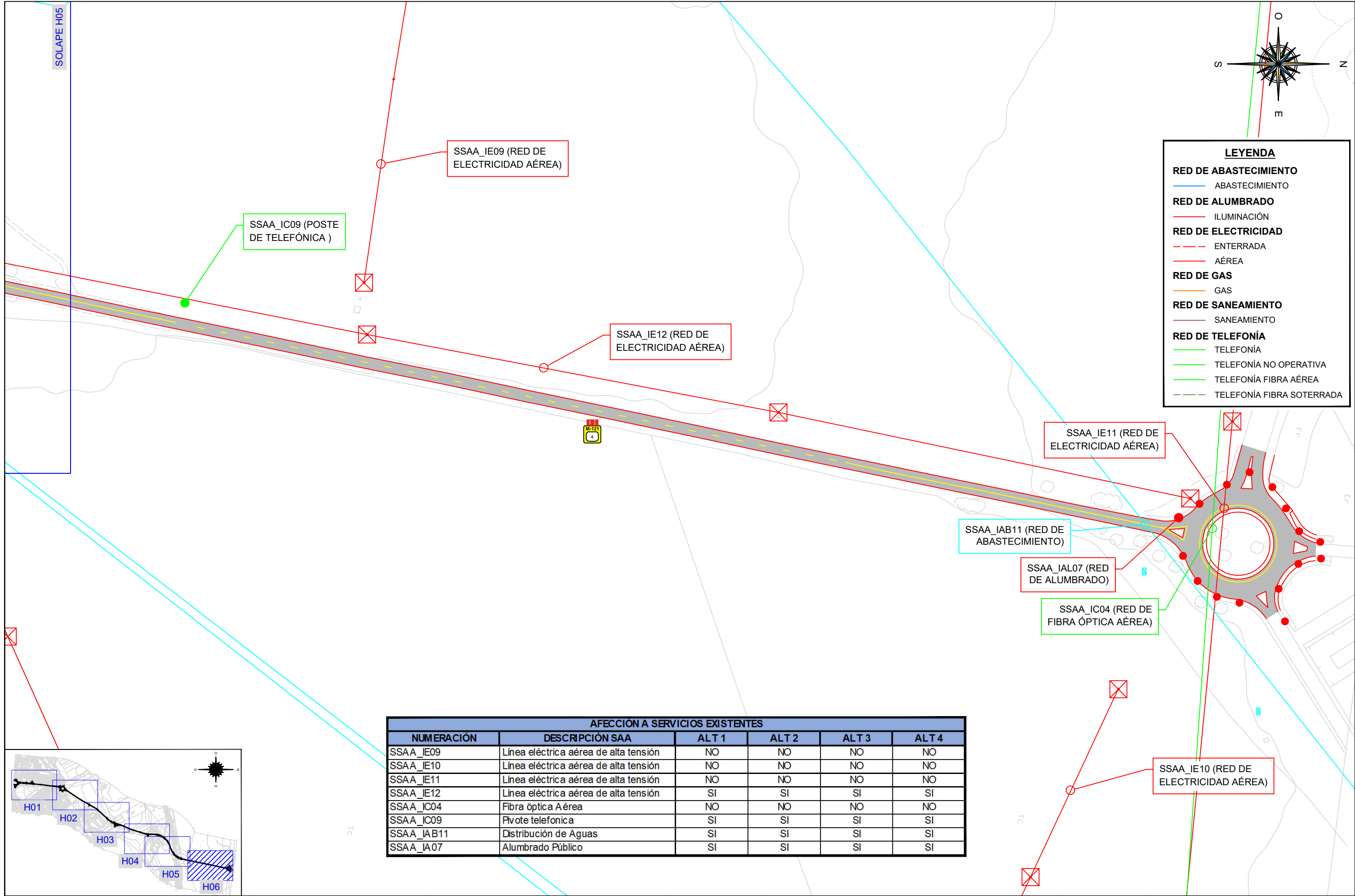
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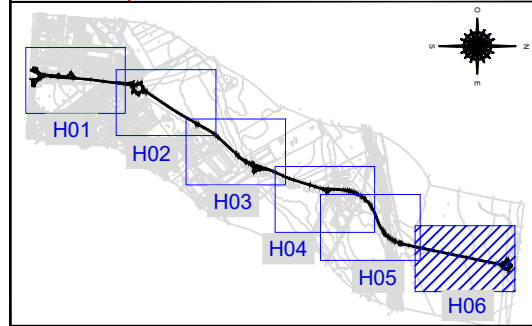
TELEFONÍA FIBRA AÉREA

TELEFONÍA FIBRA SOTERRADA

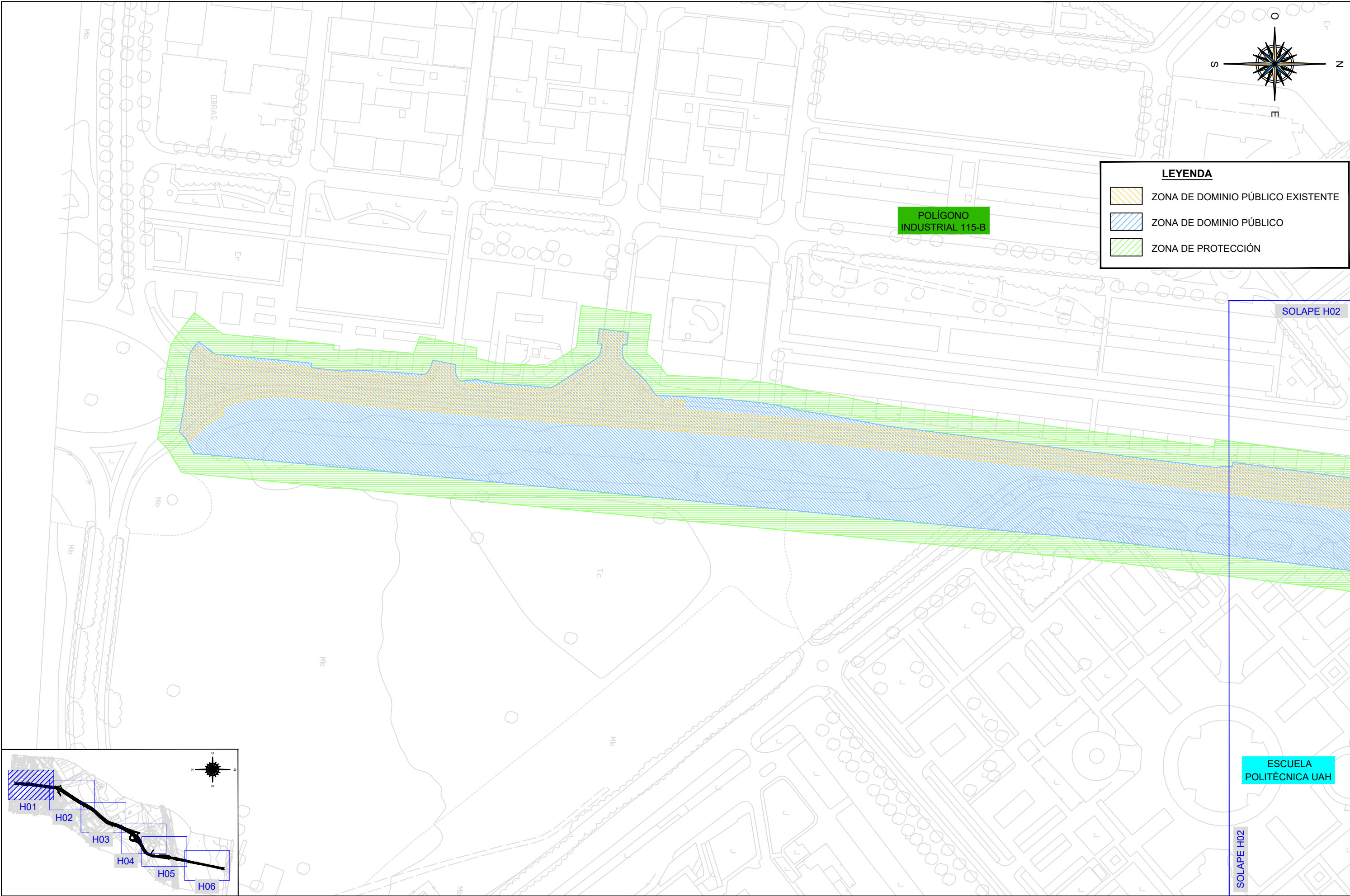


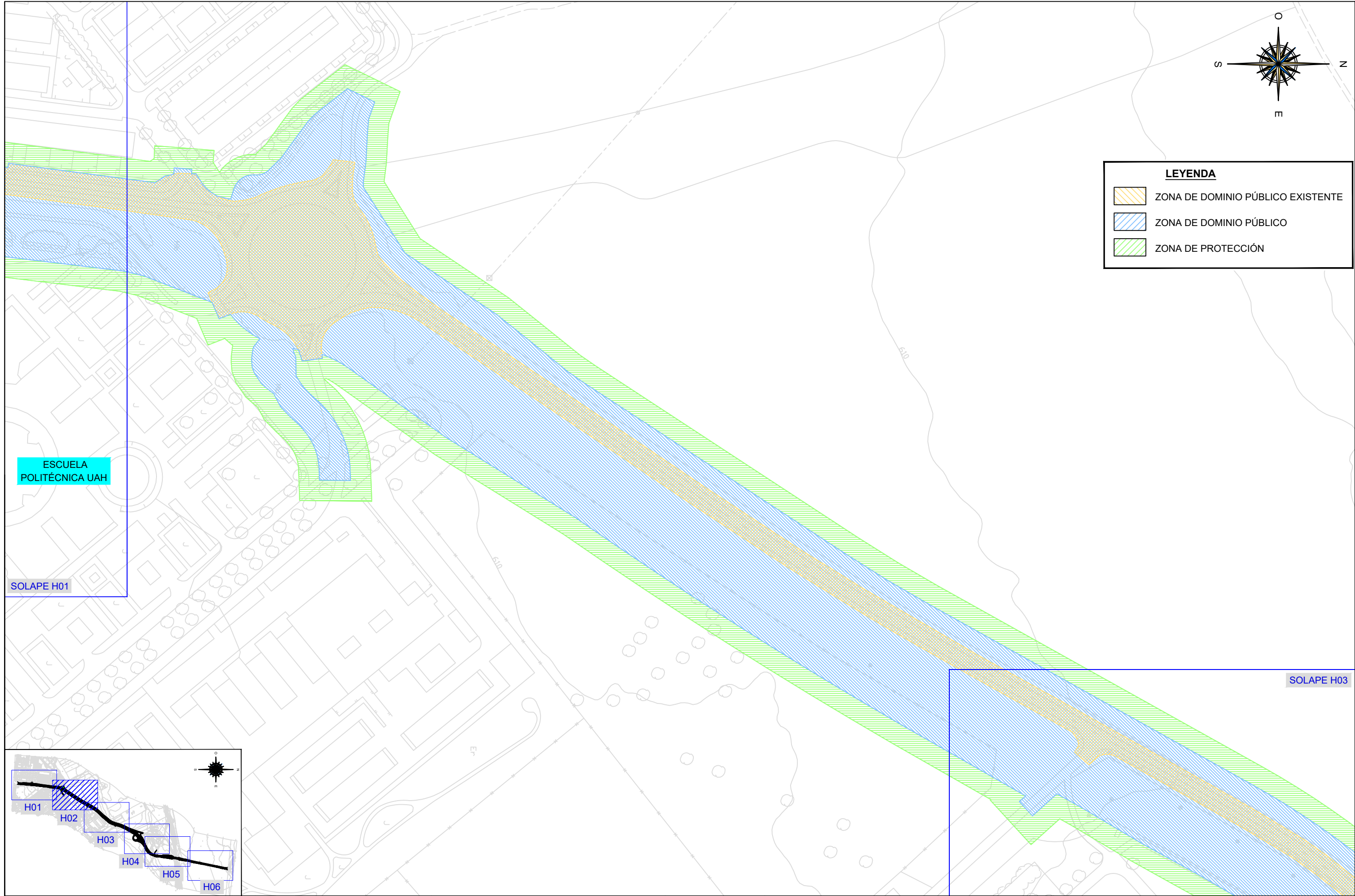


AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE09	Línea eléctrica aérea de alta tensión	NO	NO	NO	NO
SSAA_IE10	Línea eléctrica aérea de alta tensión	NO	NO	NO	NO
SSAA_IE11	Línea eléctrica aérea de alta tensión	NO	NO	NO	NO
SSAA_IE12	Línea eléctrica aérea de alta tensión	SI	SI	SI	SI
SSAA_IC04	Fibra óptica Aérea	NO	NO	NO	NO
SSAA_IC09	Pivote telefonica	SI	SI	SI	SI
SSAA_IAB11	Distribución de Aguas	SI	SI	SI	SI
SSAA_IA07	Alumbrado Público	SI	SI	SI	SI



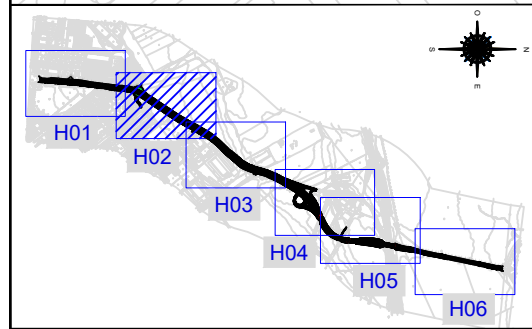




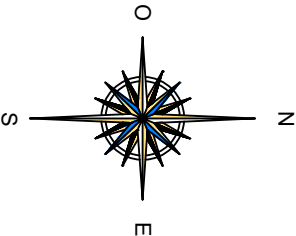
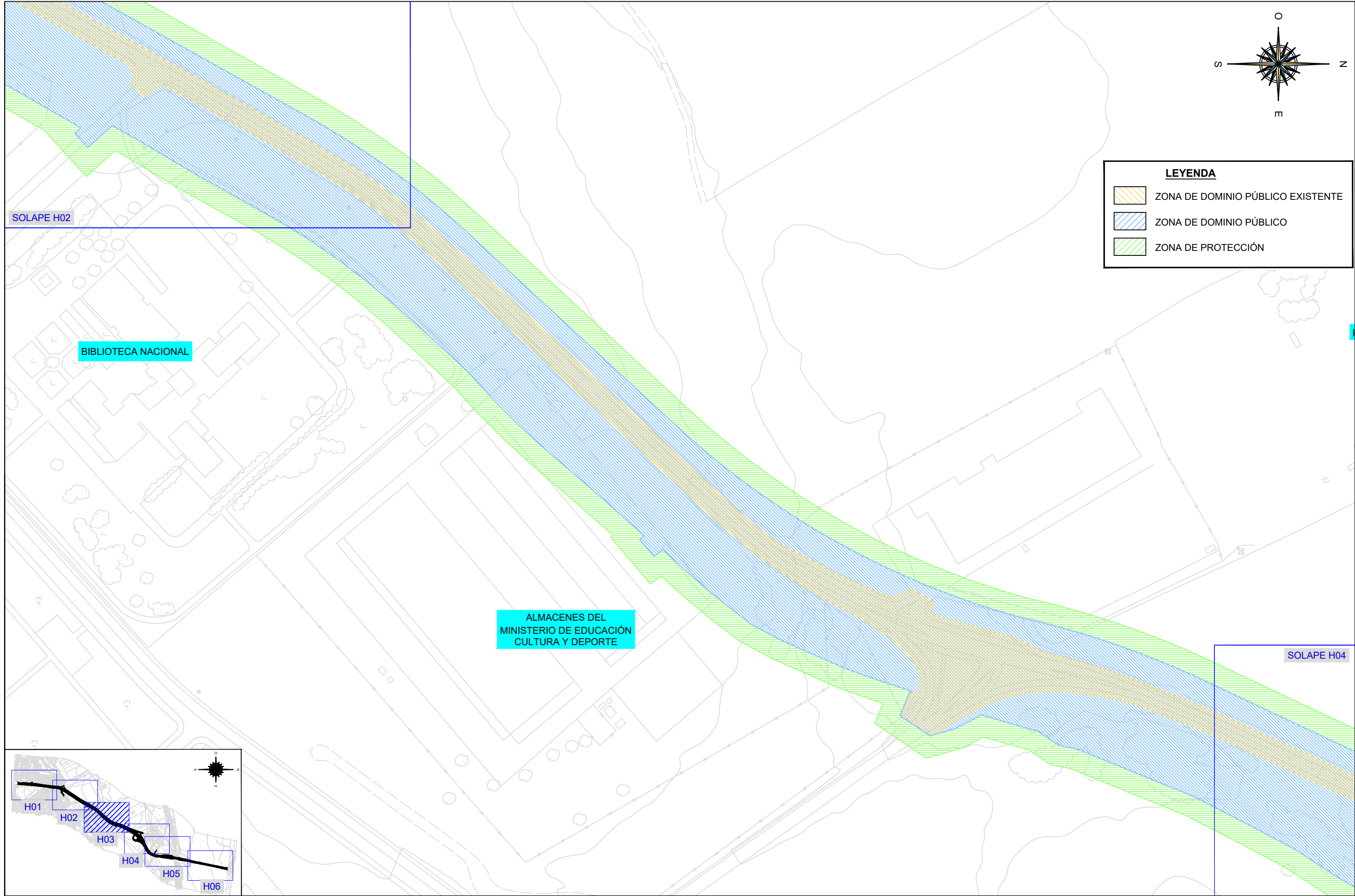


**LEYENDA**




- ZONA DE DOMINIO PÚBLICO EXISTENTE
- ZONA DE DOMINIO PÚBLICO
- ZONA DE PROTECCIÓN

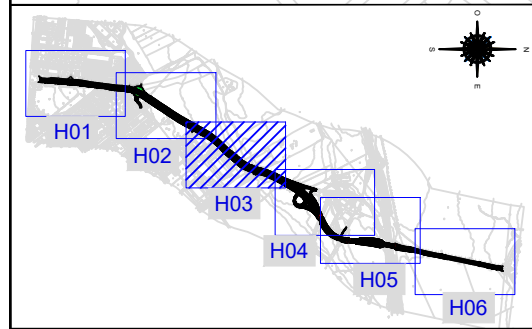


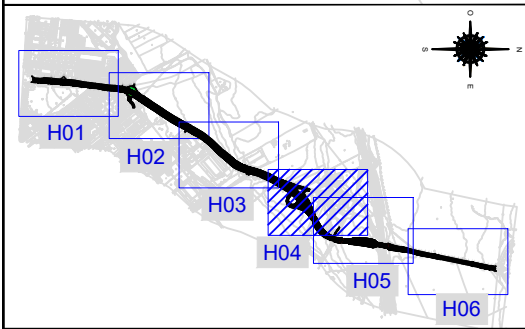
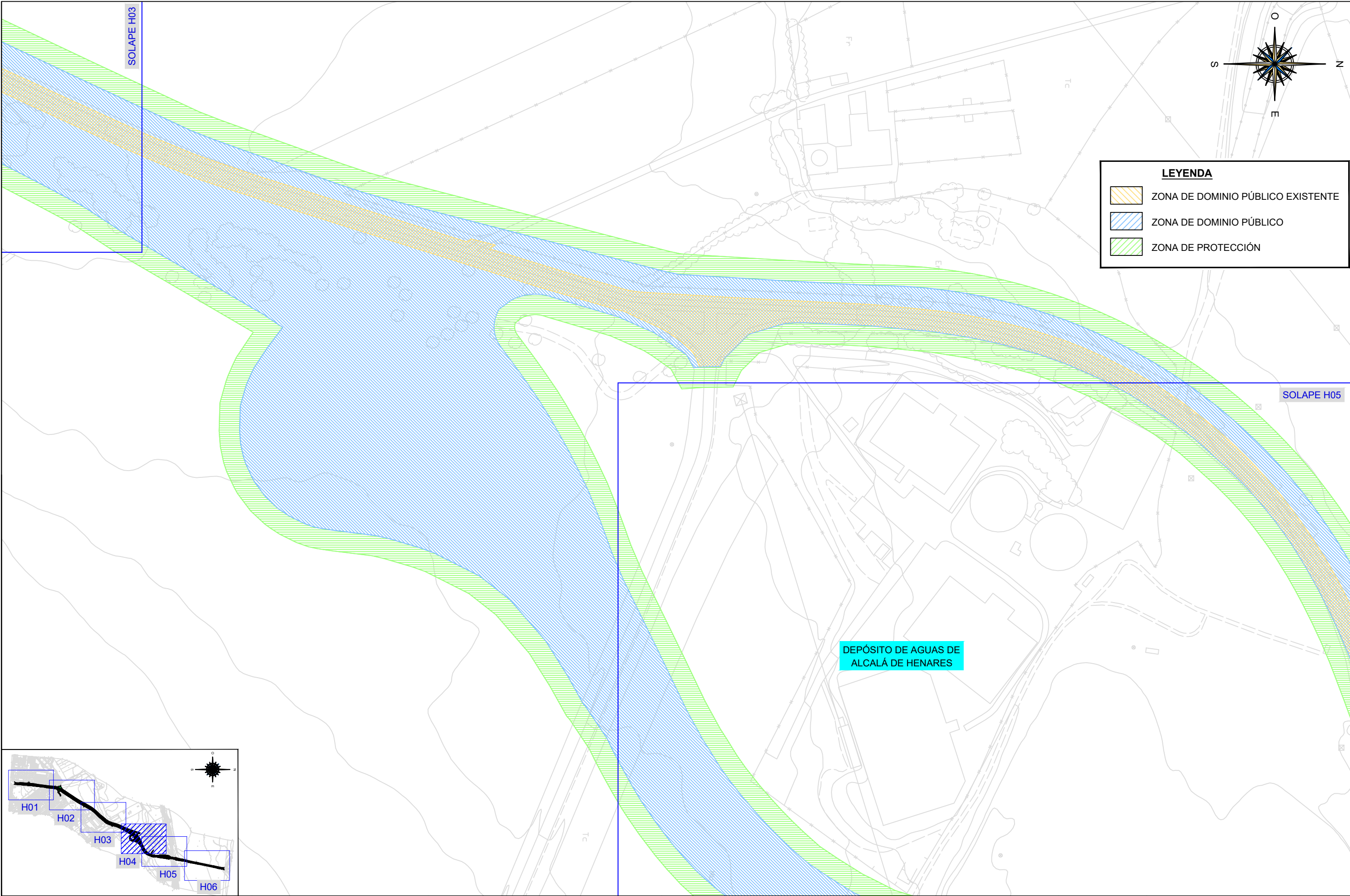




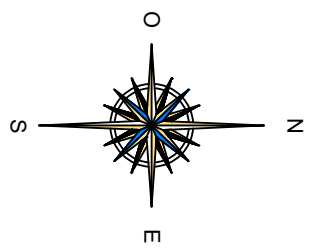
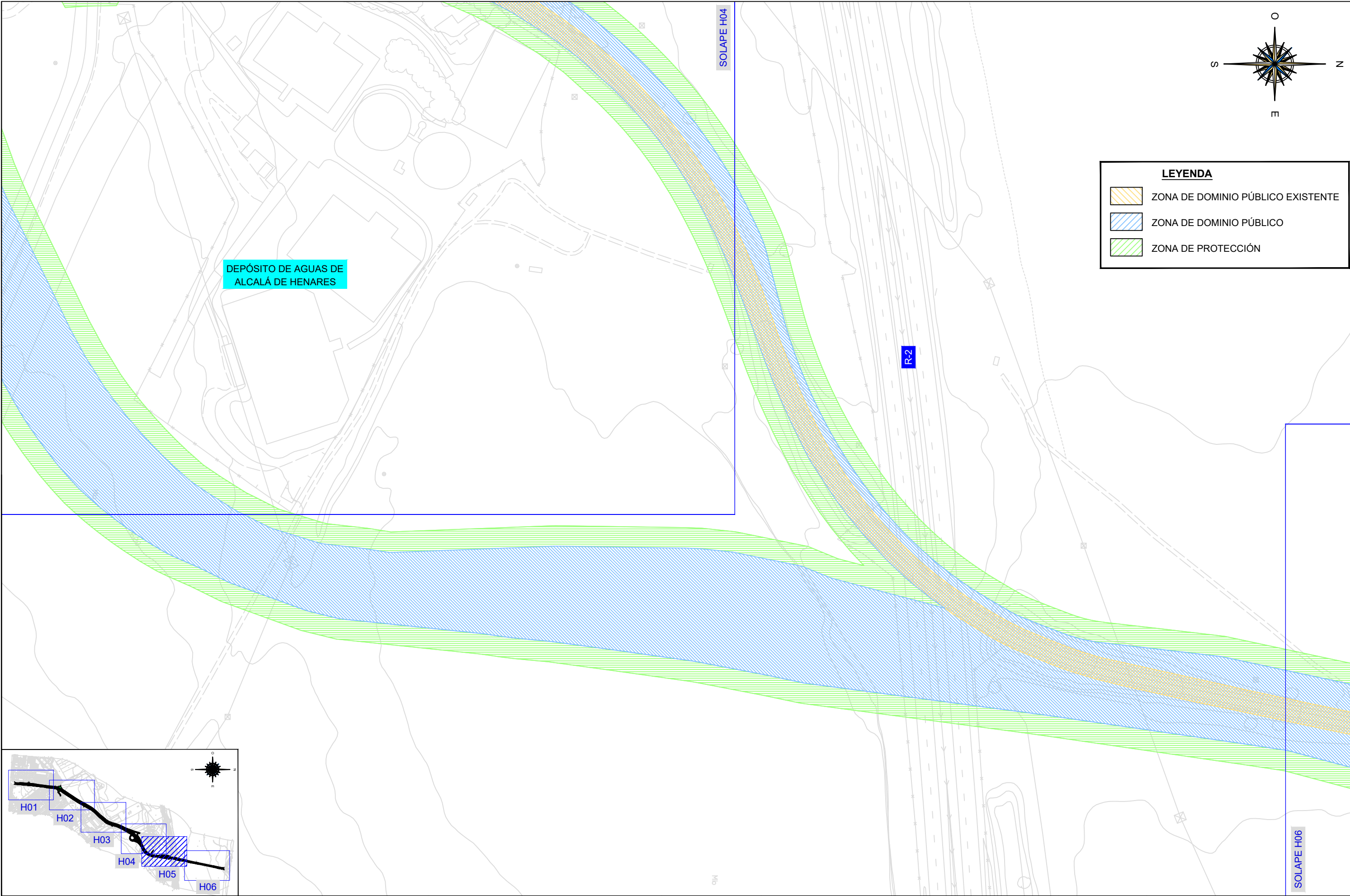
**LEYENDA**

-  ZONA DE DOMINIO PÚBLICO EXISTENTE
-  ZONA DE DOMINIO PÚBLICO
-  ZONA DE PROTECCIÓN



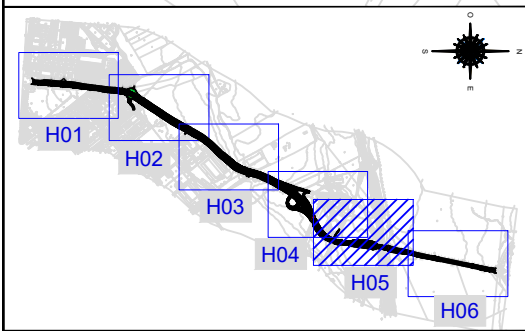


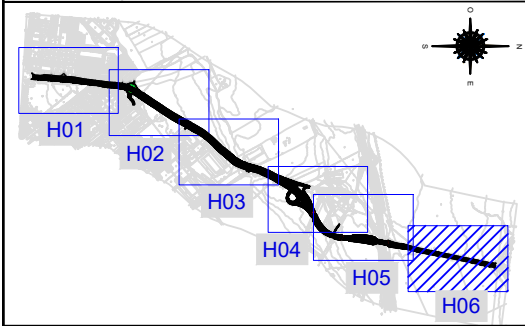




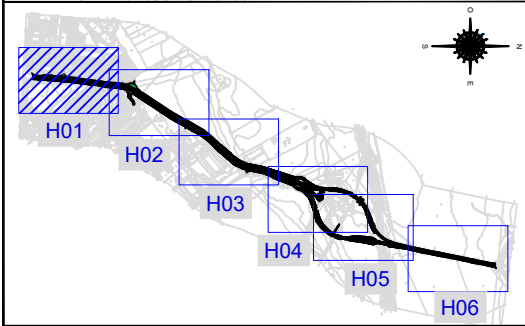
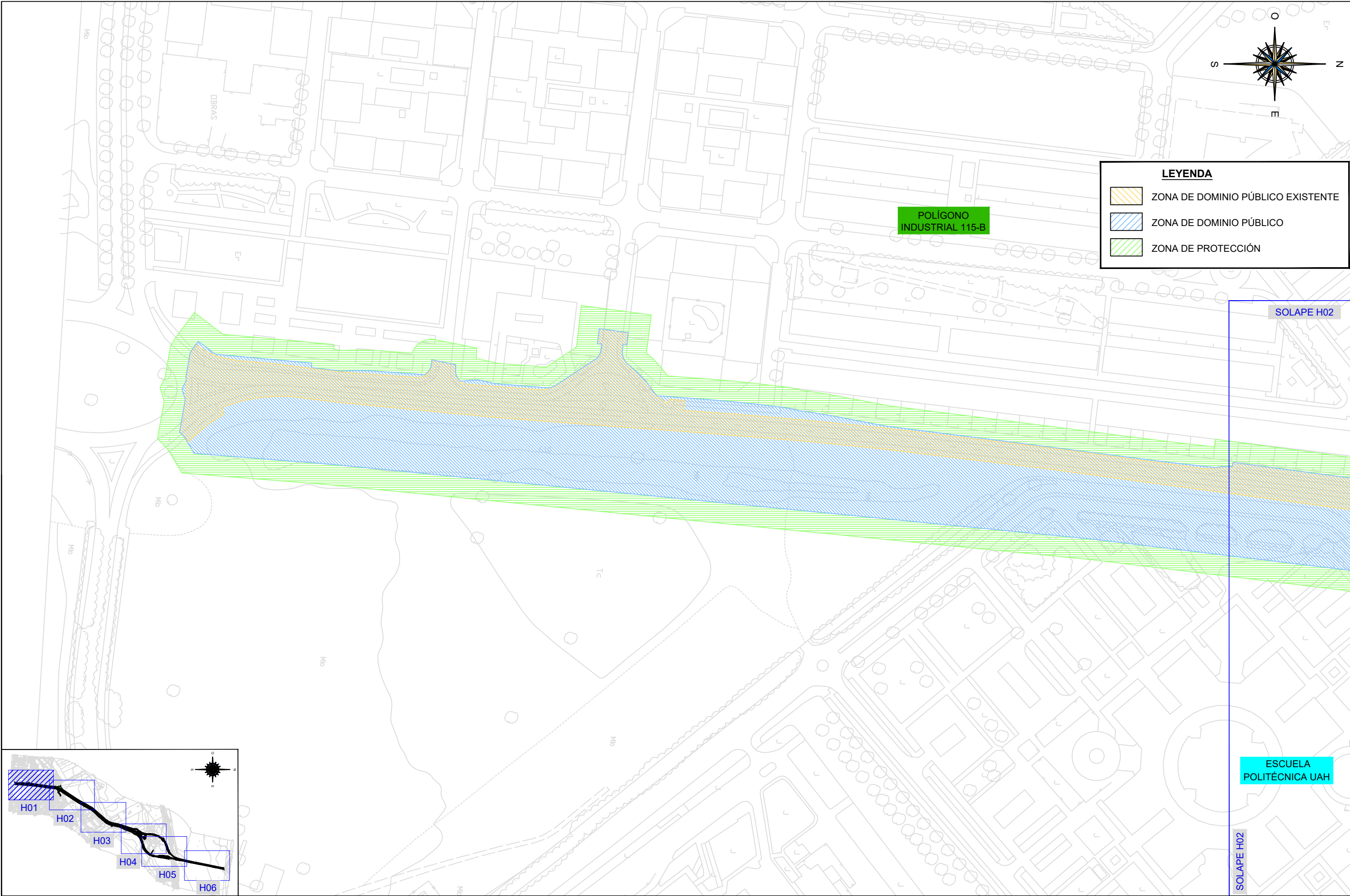
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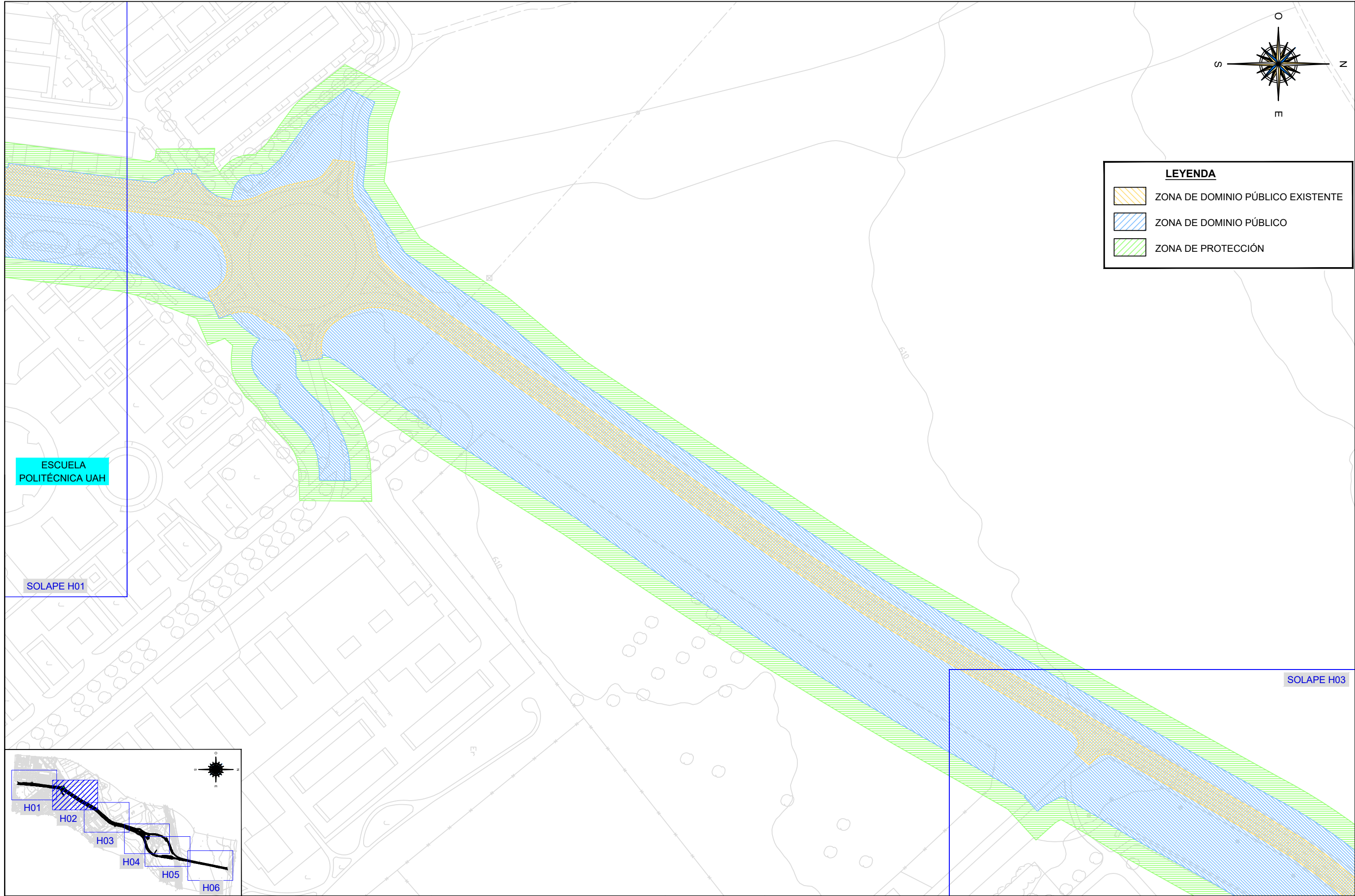
- ZONA DE DOMINIO PÚBLICO EXISTENTE
- ZONA DE DOMINIO PÚBLICO
- ZONA DE PROTECCIÓN





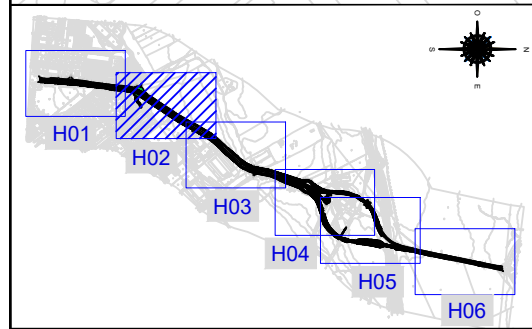




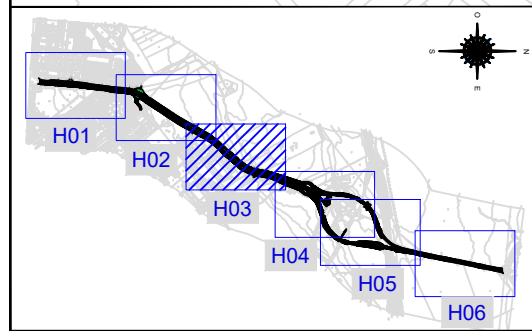
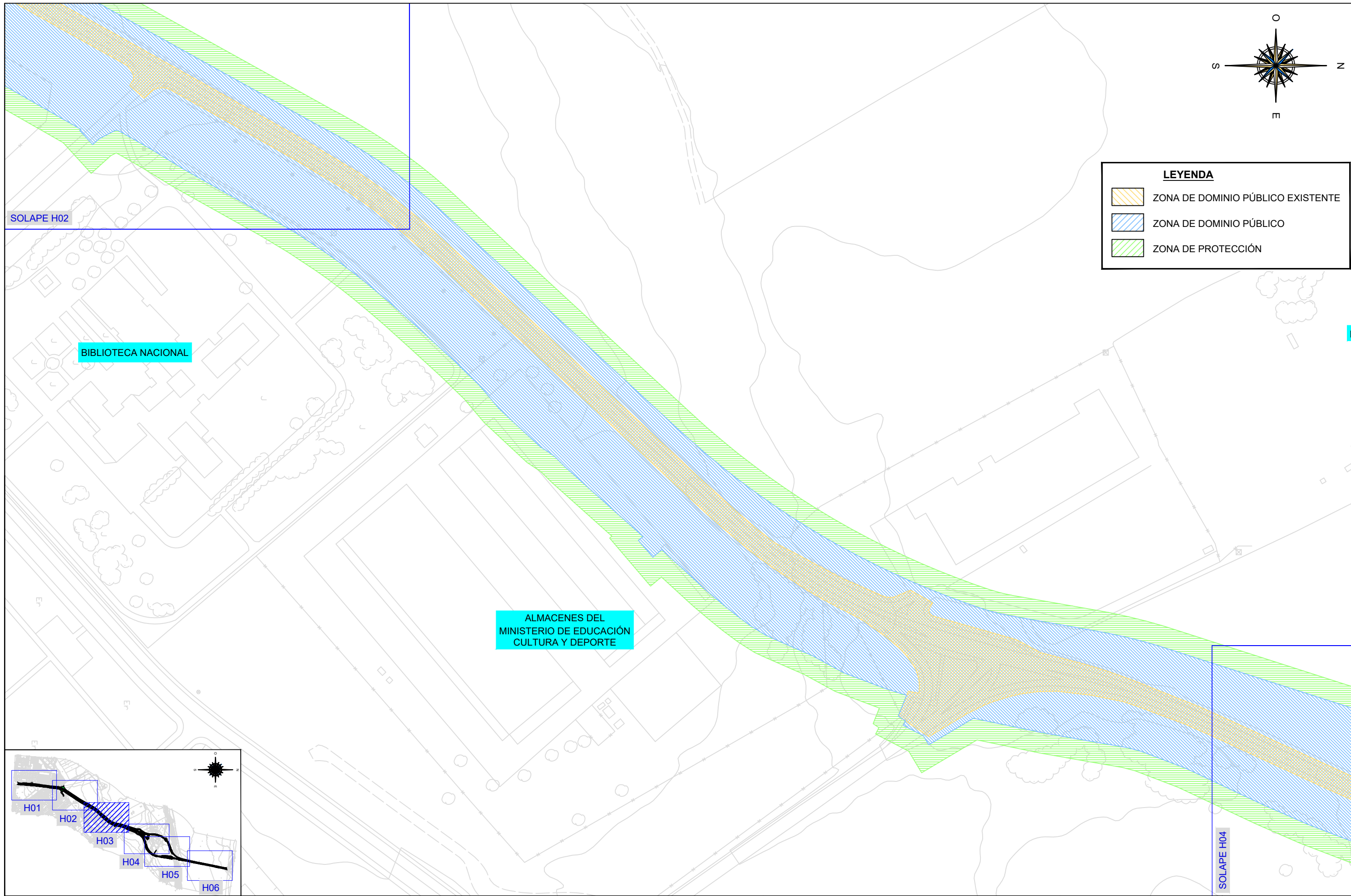


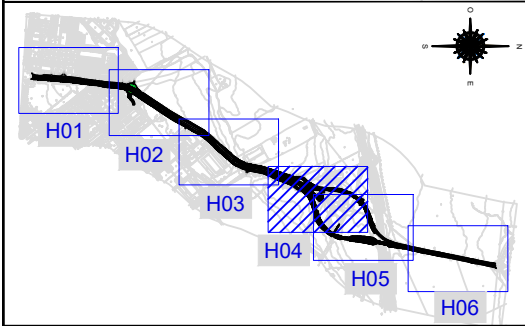
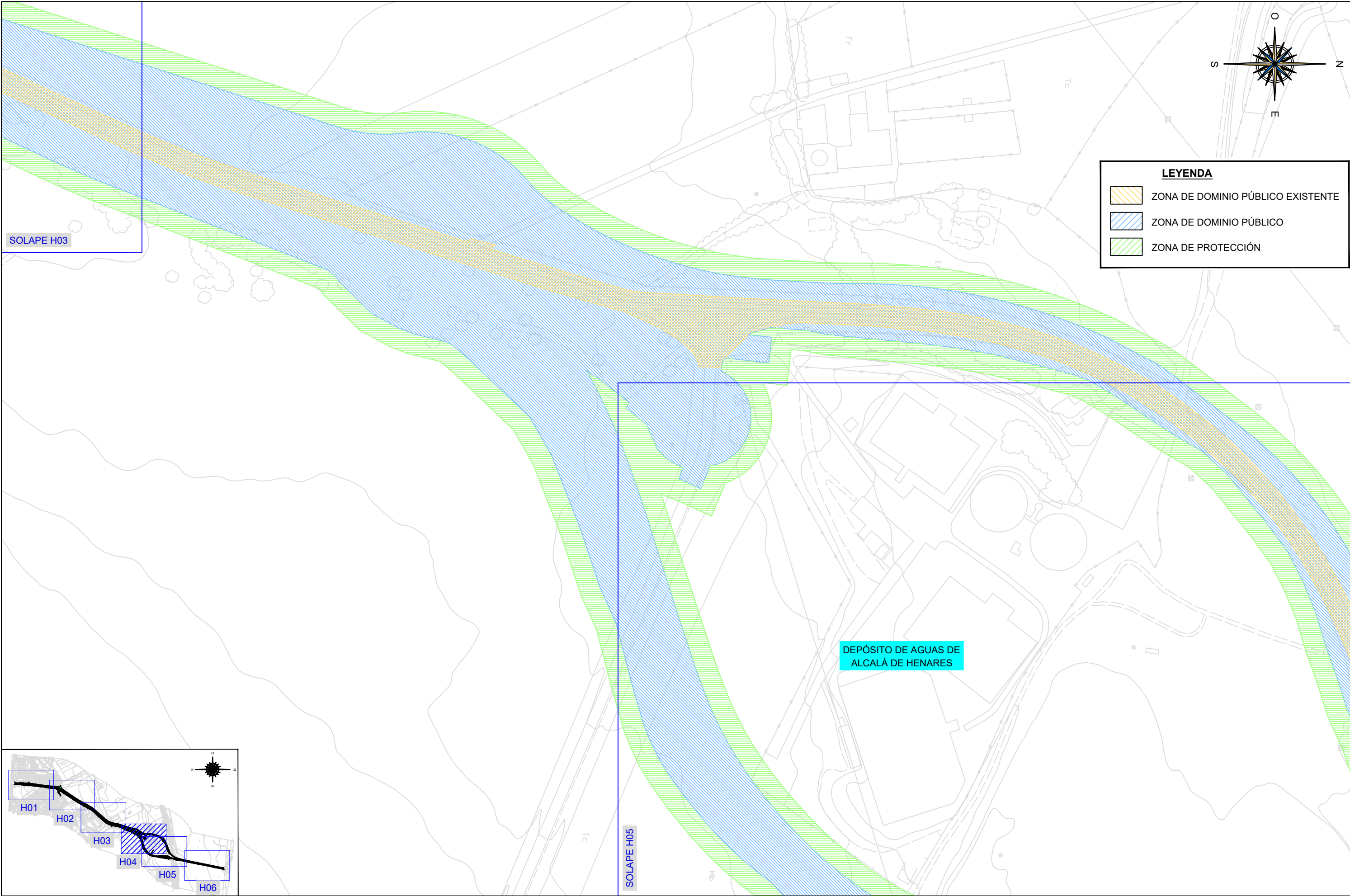
**LEYENDA**

- ZONA DE DOMINIO PÚBLICO EXISTENTE
- ZONA DE DOMINIO PÚBLICO
- ZONA DE PROTECCIÓN

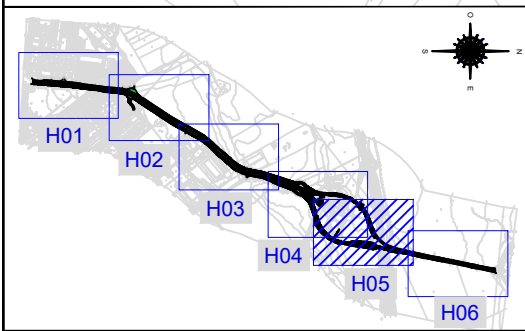
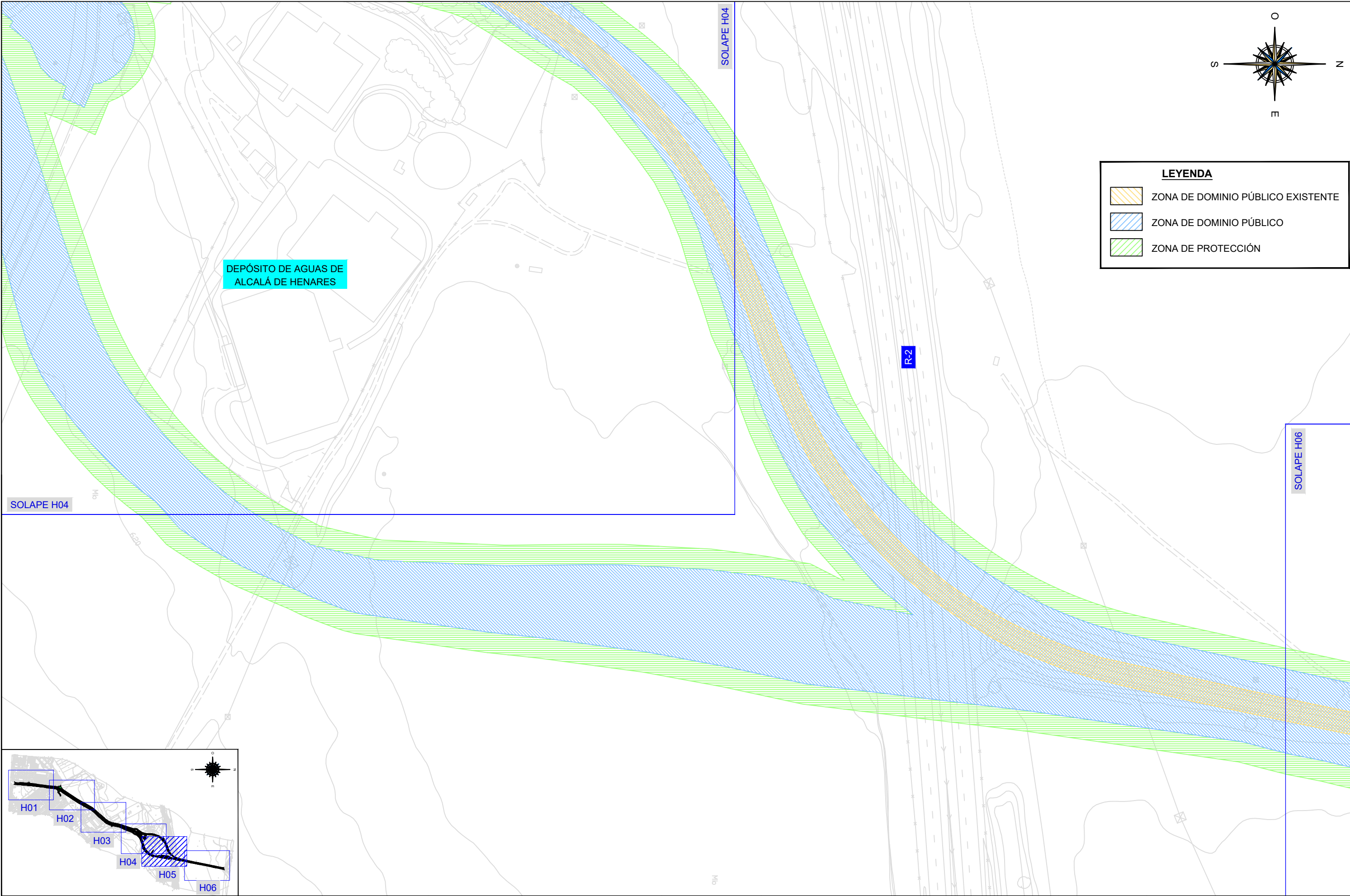


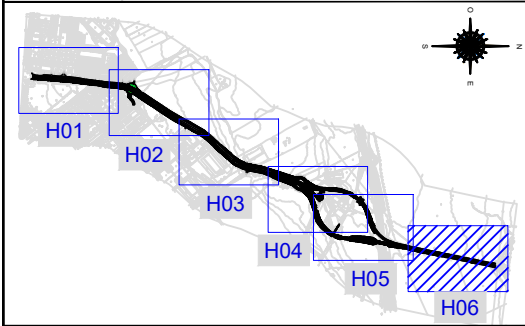




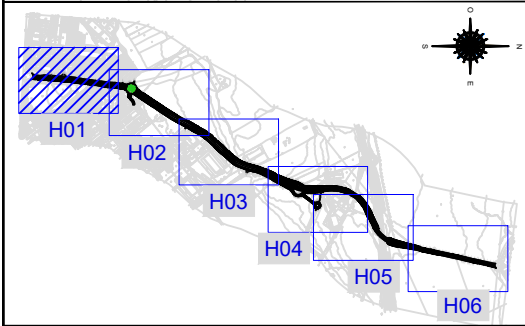
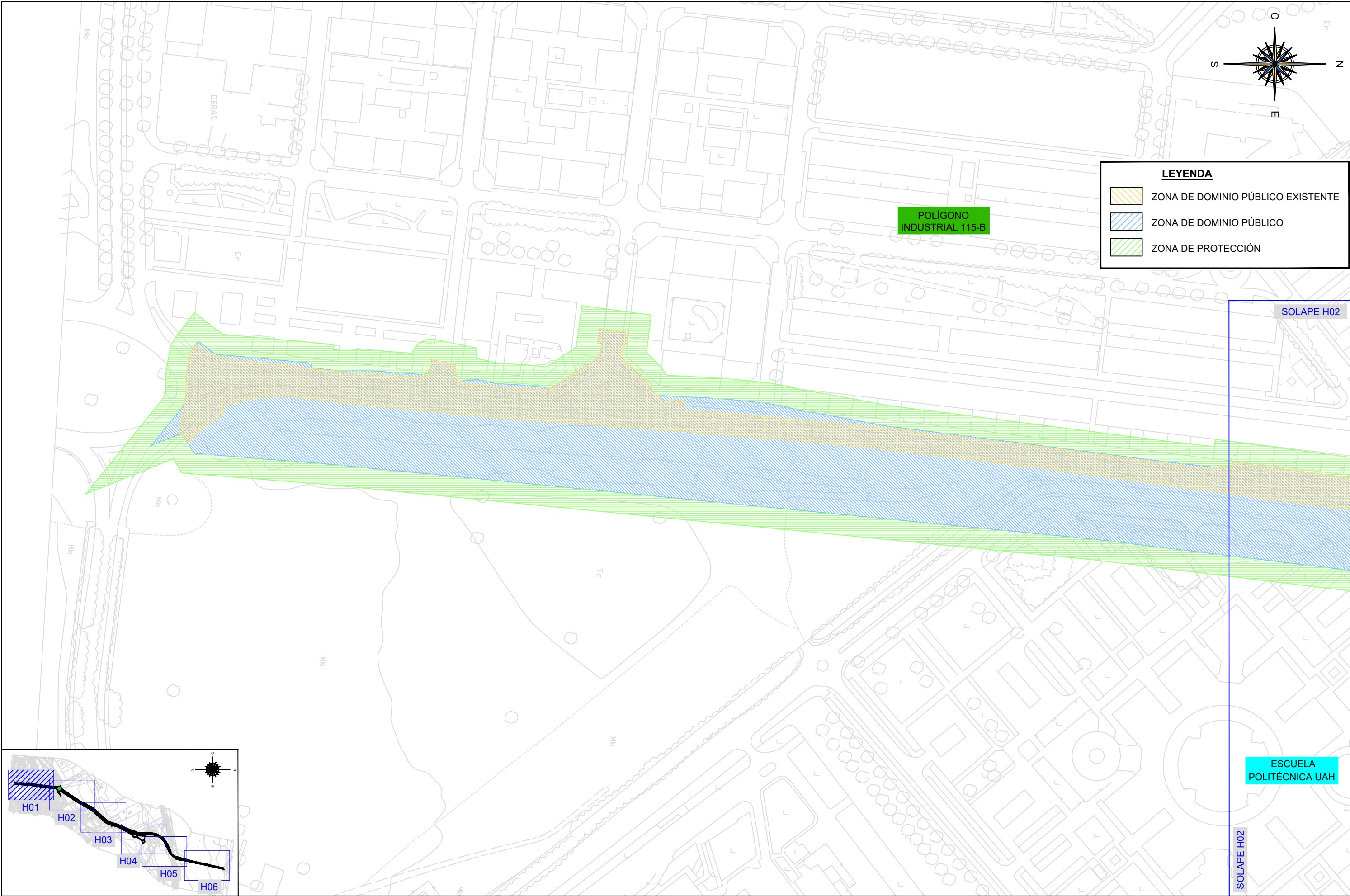




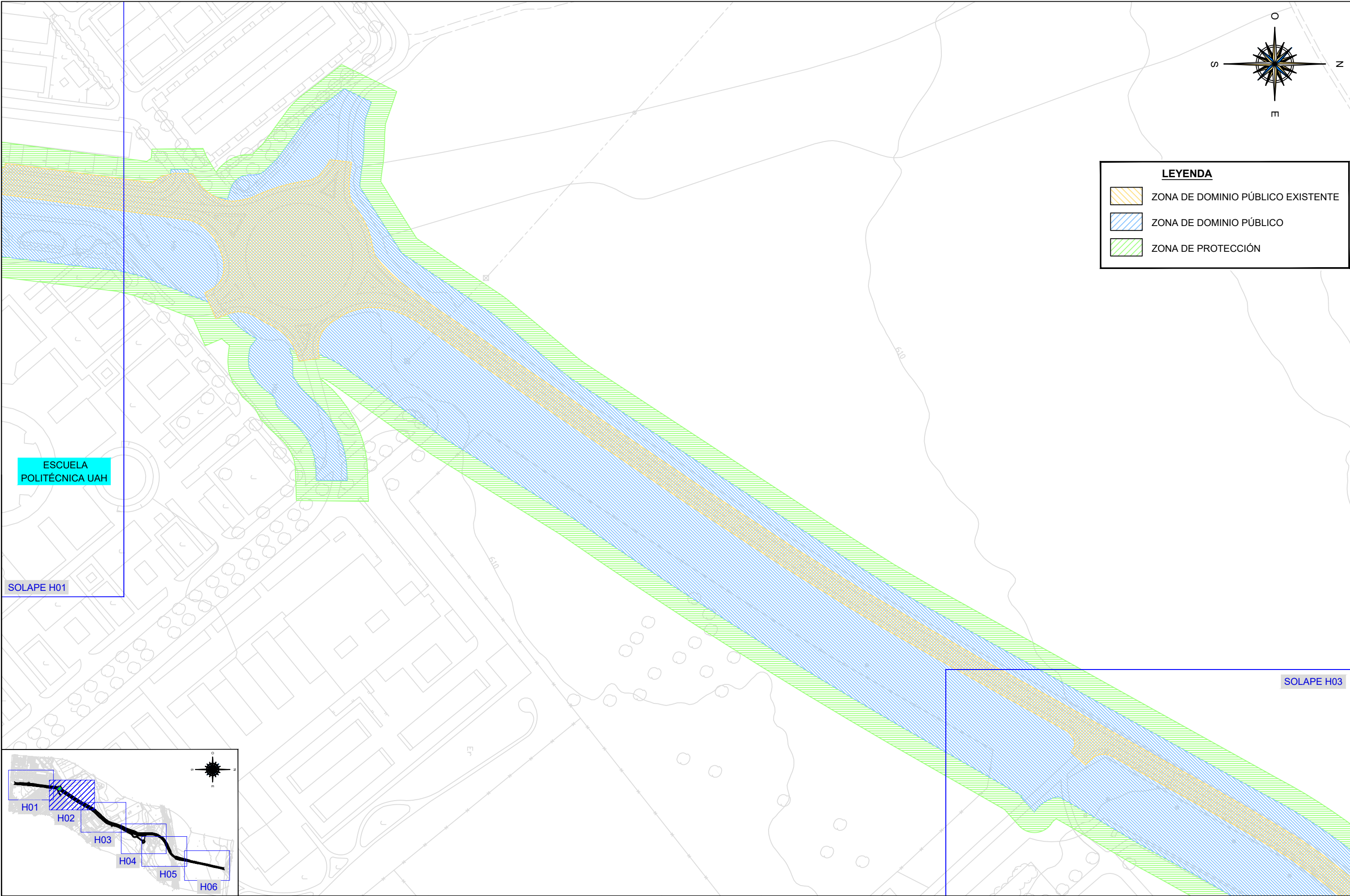






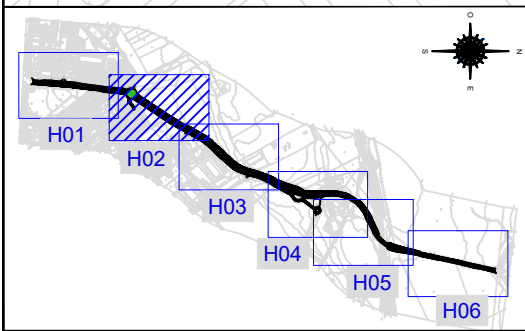


<p>ORGANISMO</p>  <p>Comunidad de Madrid</p>	<p>CONSULTOR</p>  <p>INGEMED INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.</p>	<p>AUTOR DEL ESTUDIO</p>  <p>JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS</p>	<p>ESCALAS</p>	<p>TÍTULO DE PROYECTO</p> <p>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</p>	<p>FECHA</p> <p>JUNIO 2023</p> <p>FICHERO</p> <p>10-03.dwg</p>	<p>DESIGNACIÓN</p> <p>OCUPACIÓN ALTERNATIVA 3</p>	<p>Nº PLANO</p> <p>10-03</p> <p>HOJA 1 DE 6</p>
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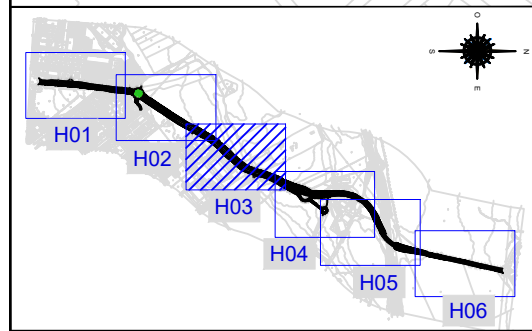
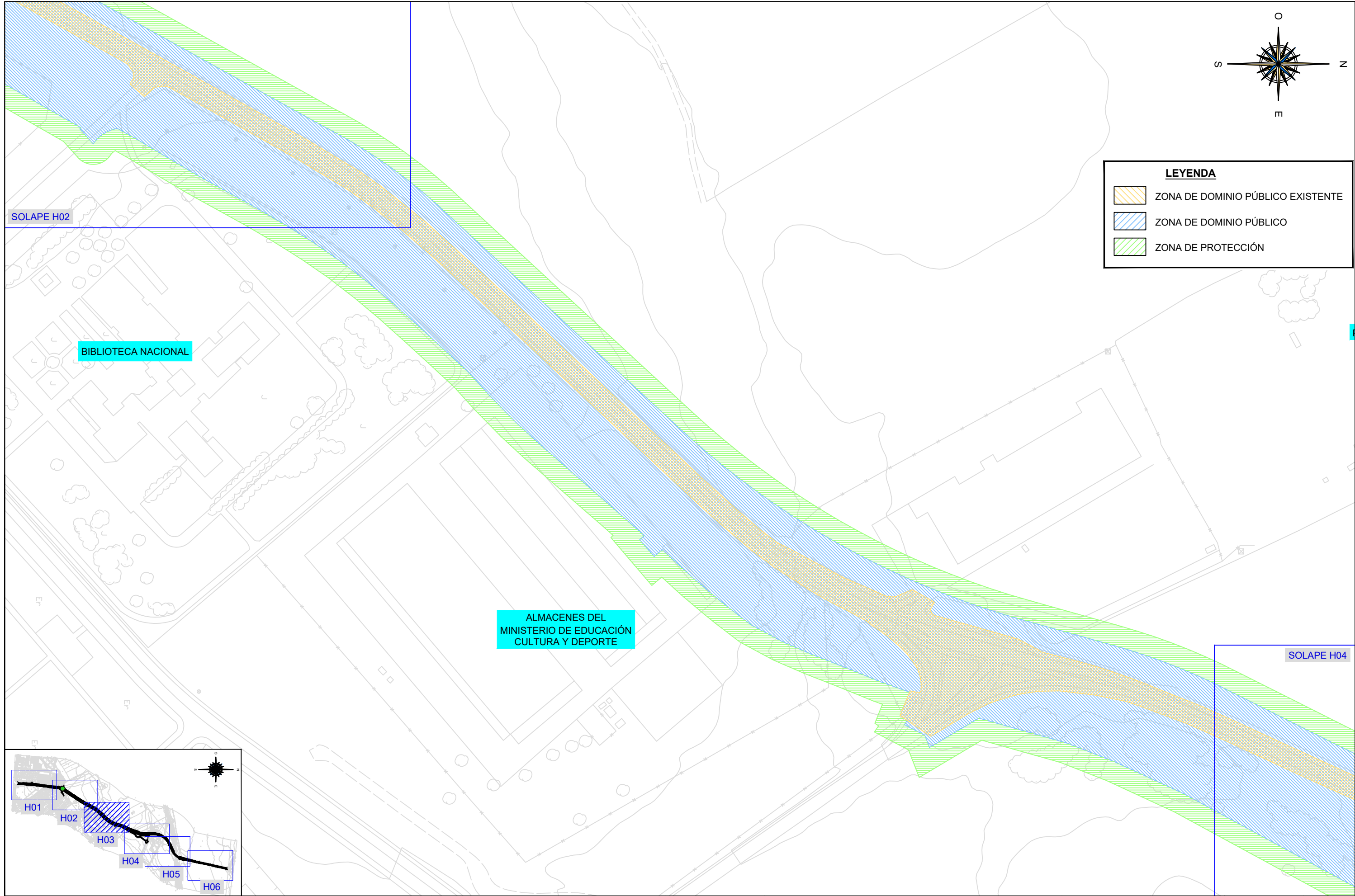


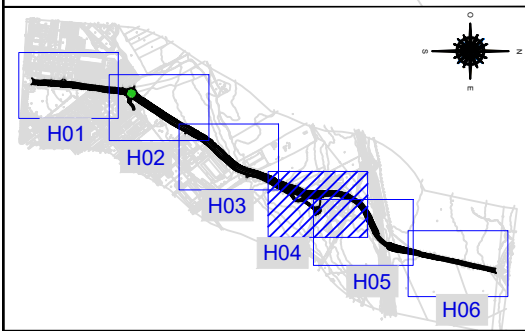
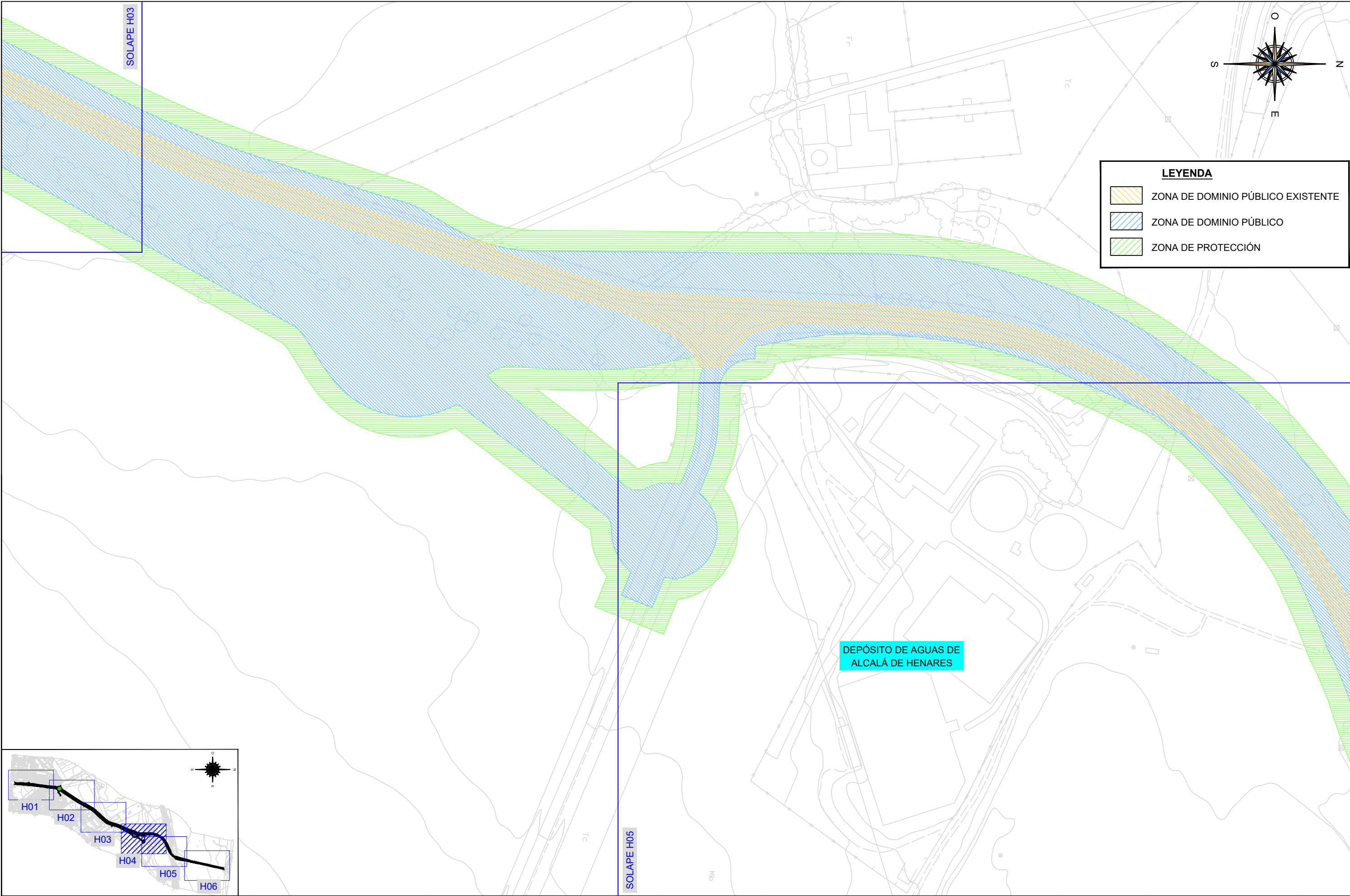
**LEYENDA**

- ZONA DE DOMINIO PÚBLICO EXISTENTE
- ZONA DE DOMINIO PÚBLICO
- ZONA DE PROTECCIÓN

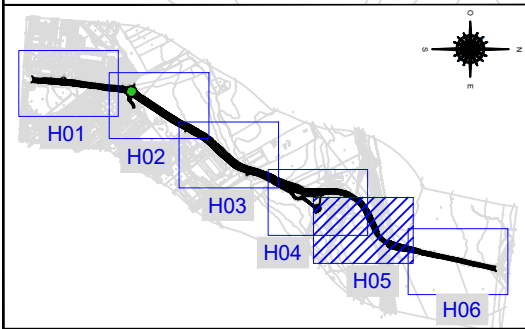
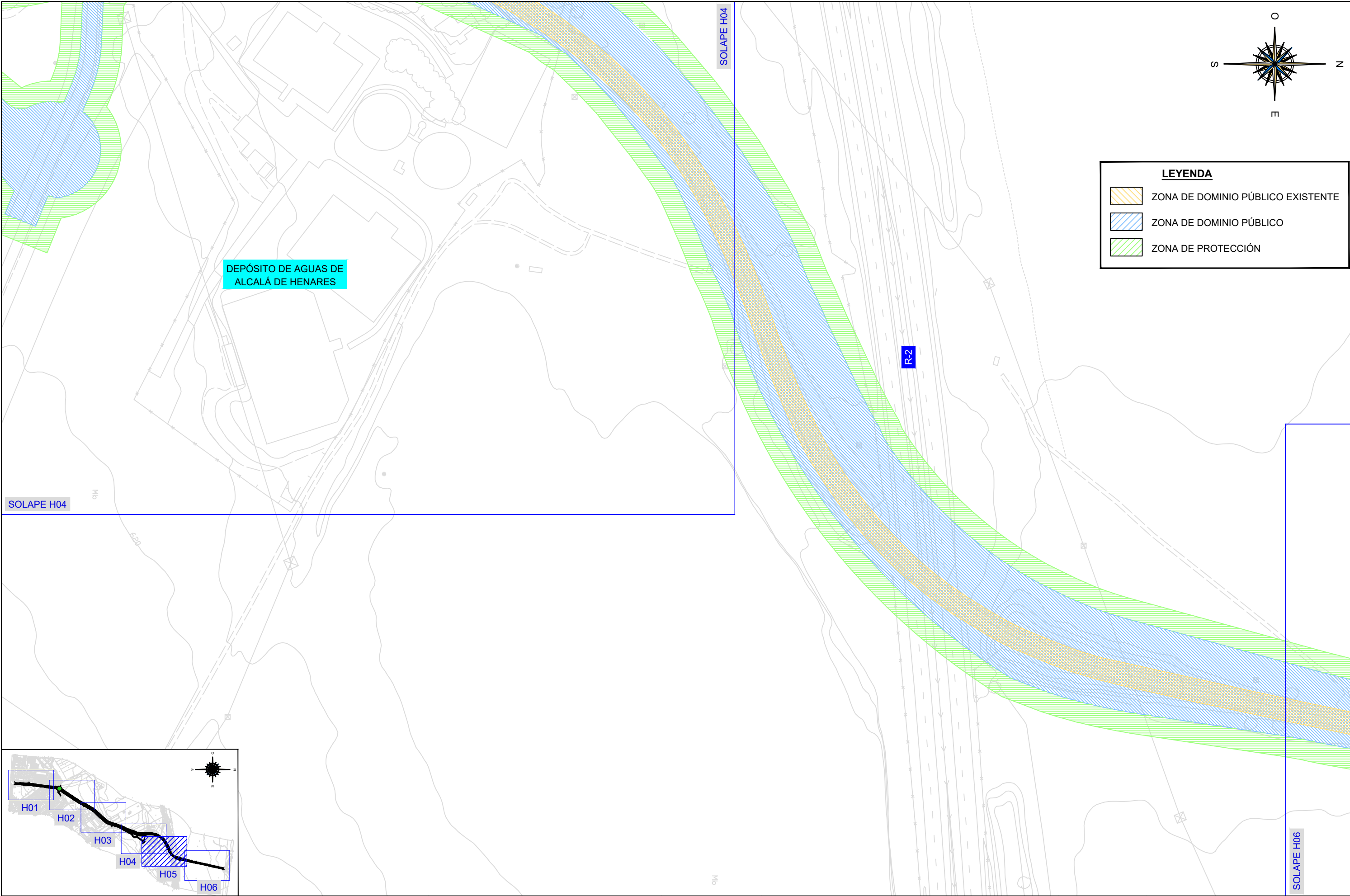


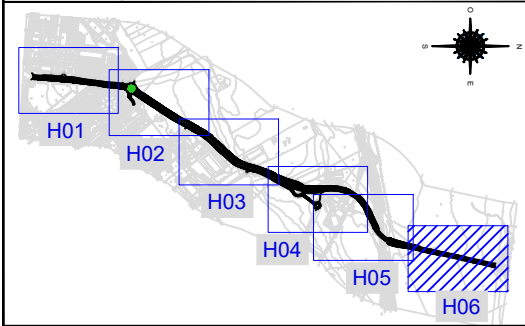




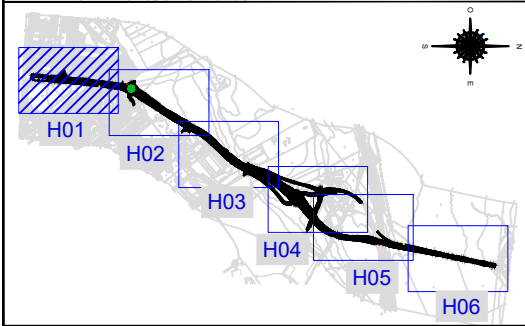
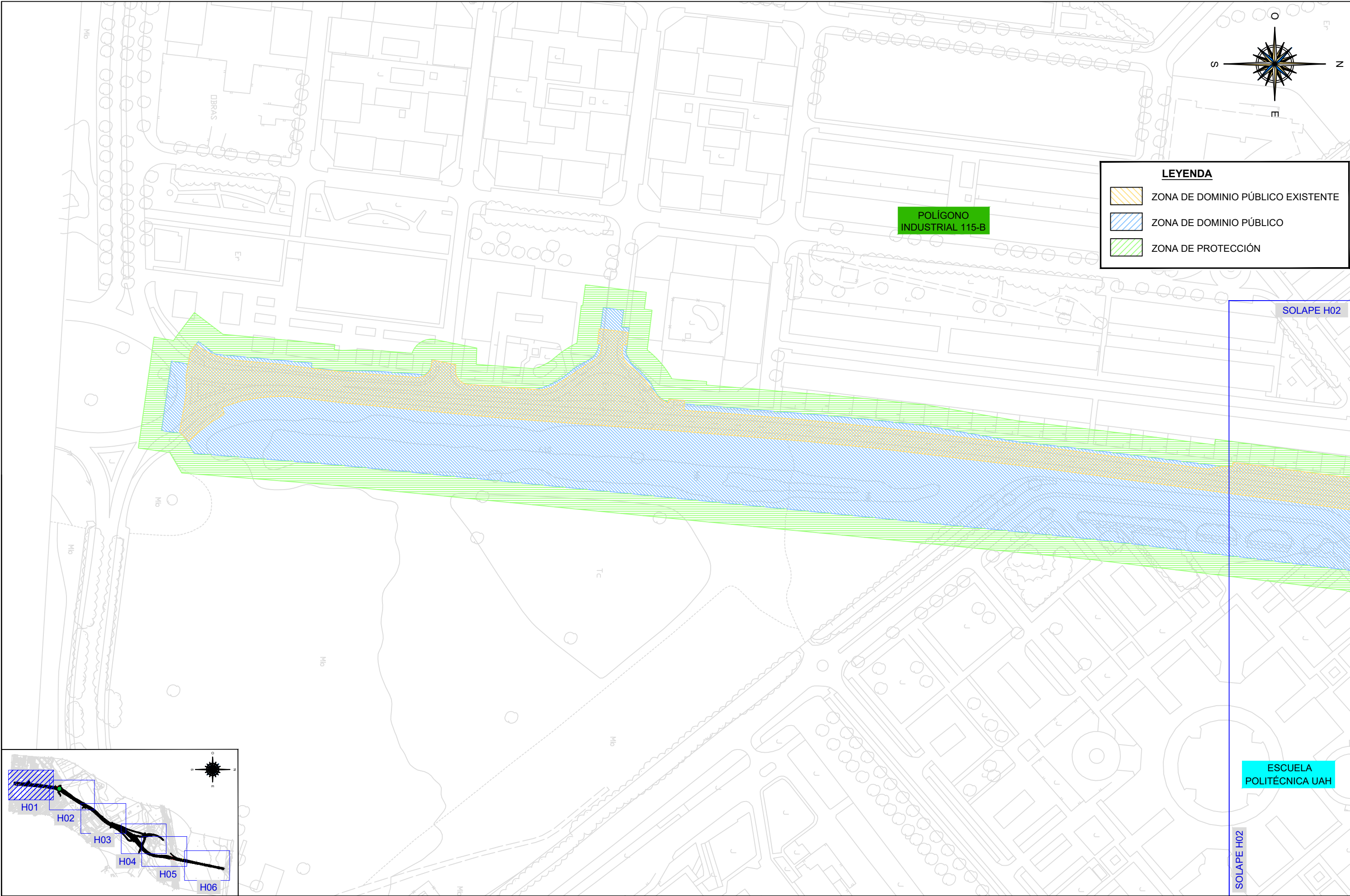


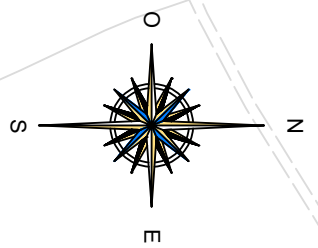
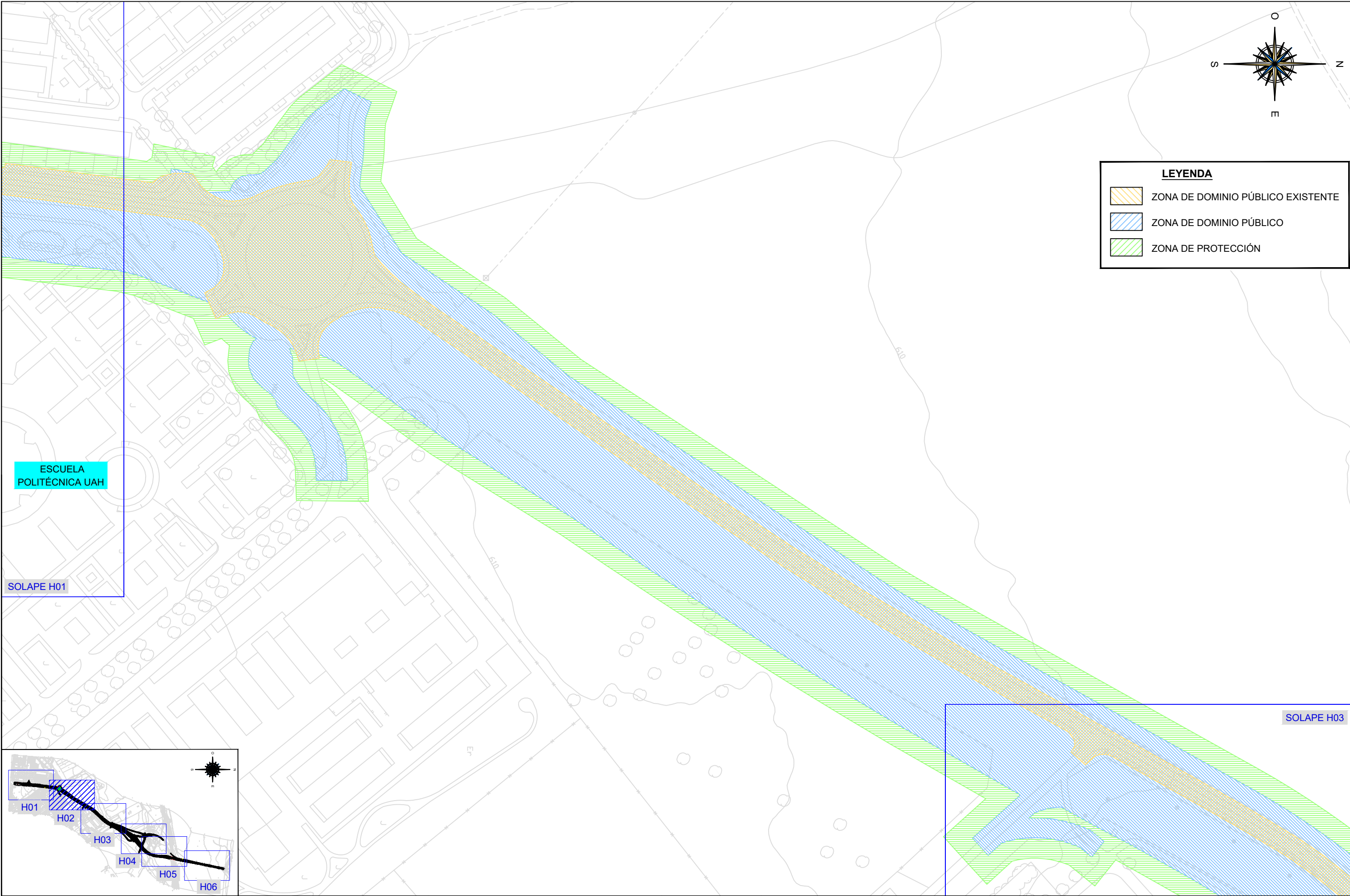















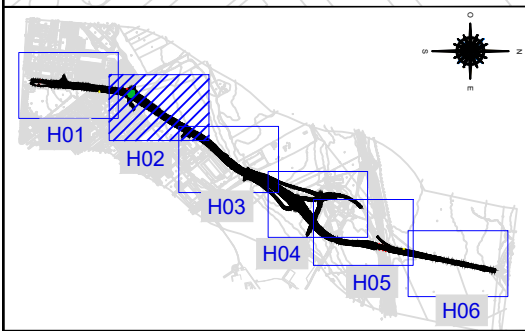
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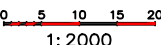
-  ZONA DE DOMINIO PÚBLICO EXISTENTE
-  ZONA DE DOMINIO PÚBLICO
-  ZONA DE PROTECCIÓN

ESCUELA  
POLITÉCNICA UAH

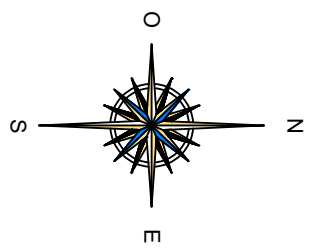
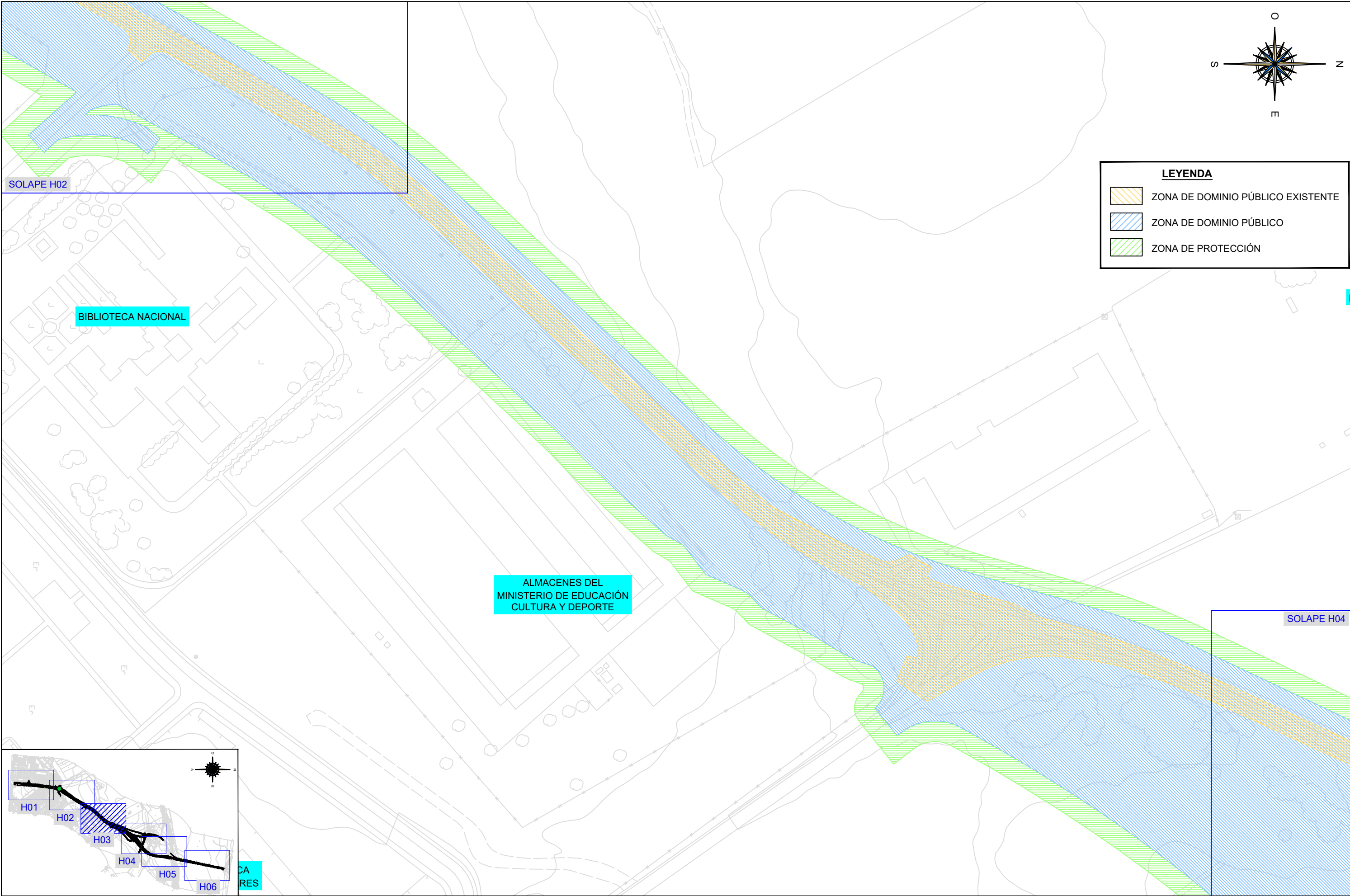
SOLAPE H01

SOLAPE H03



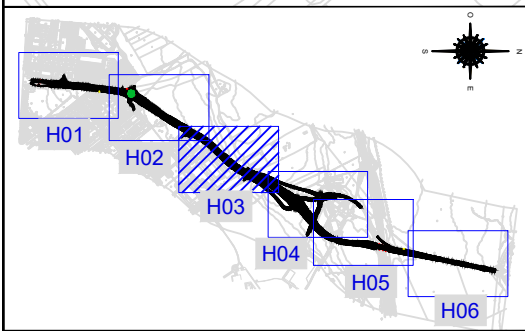
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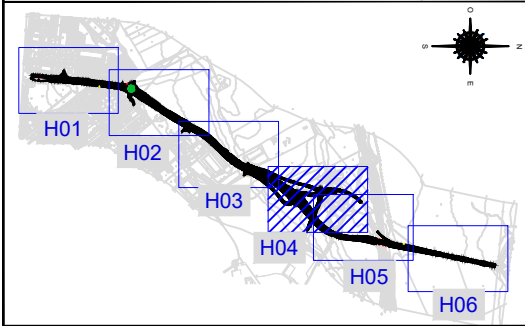
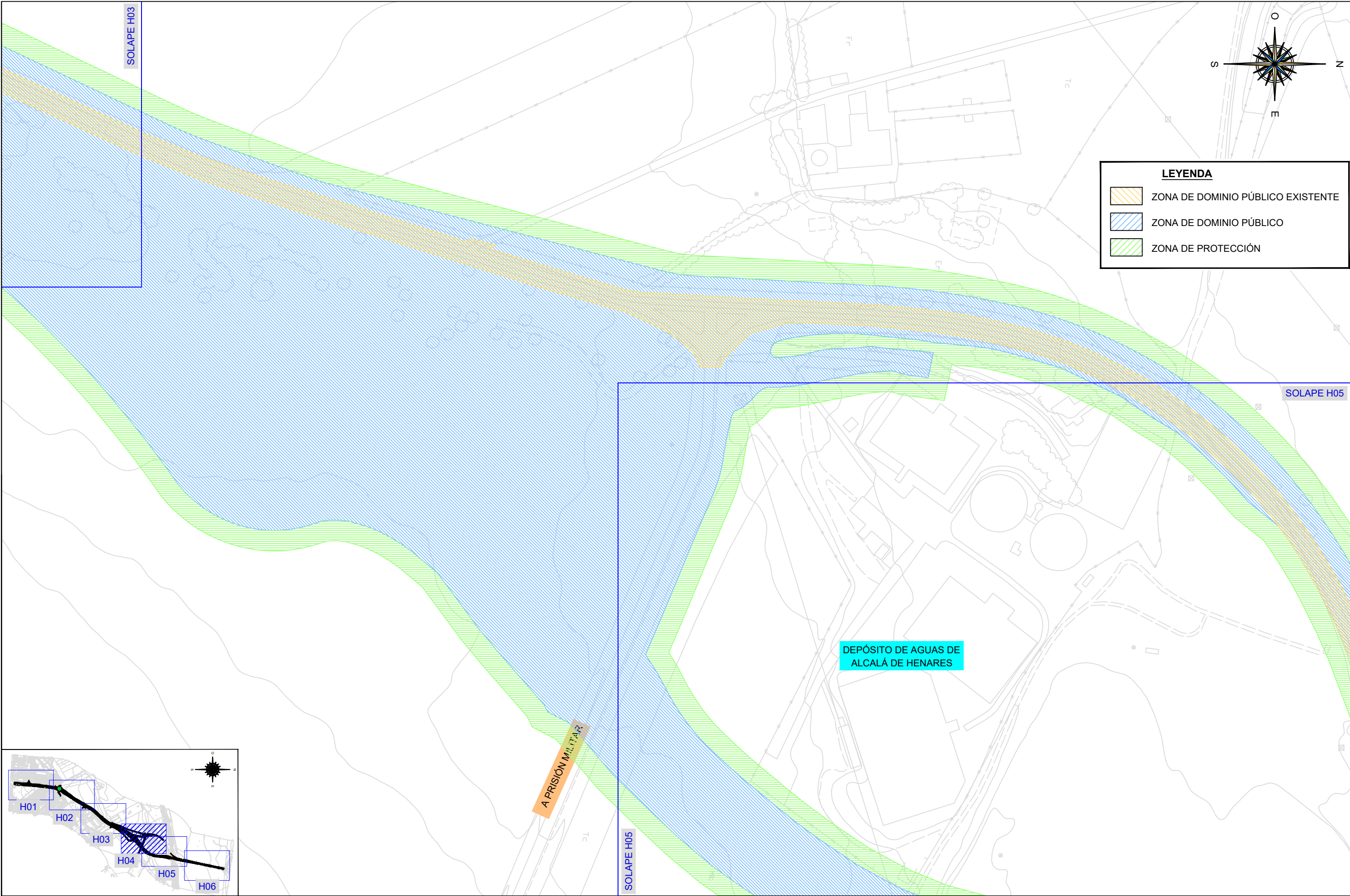




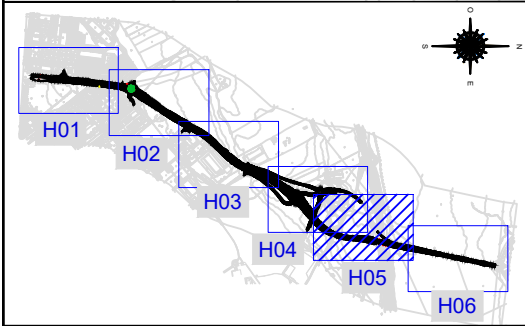
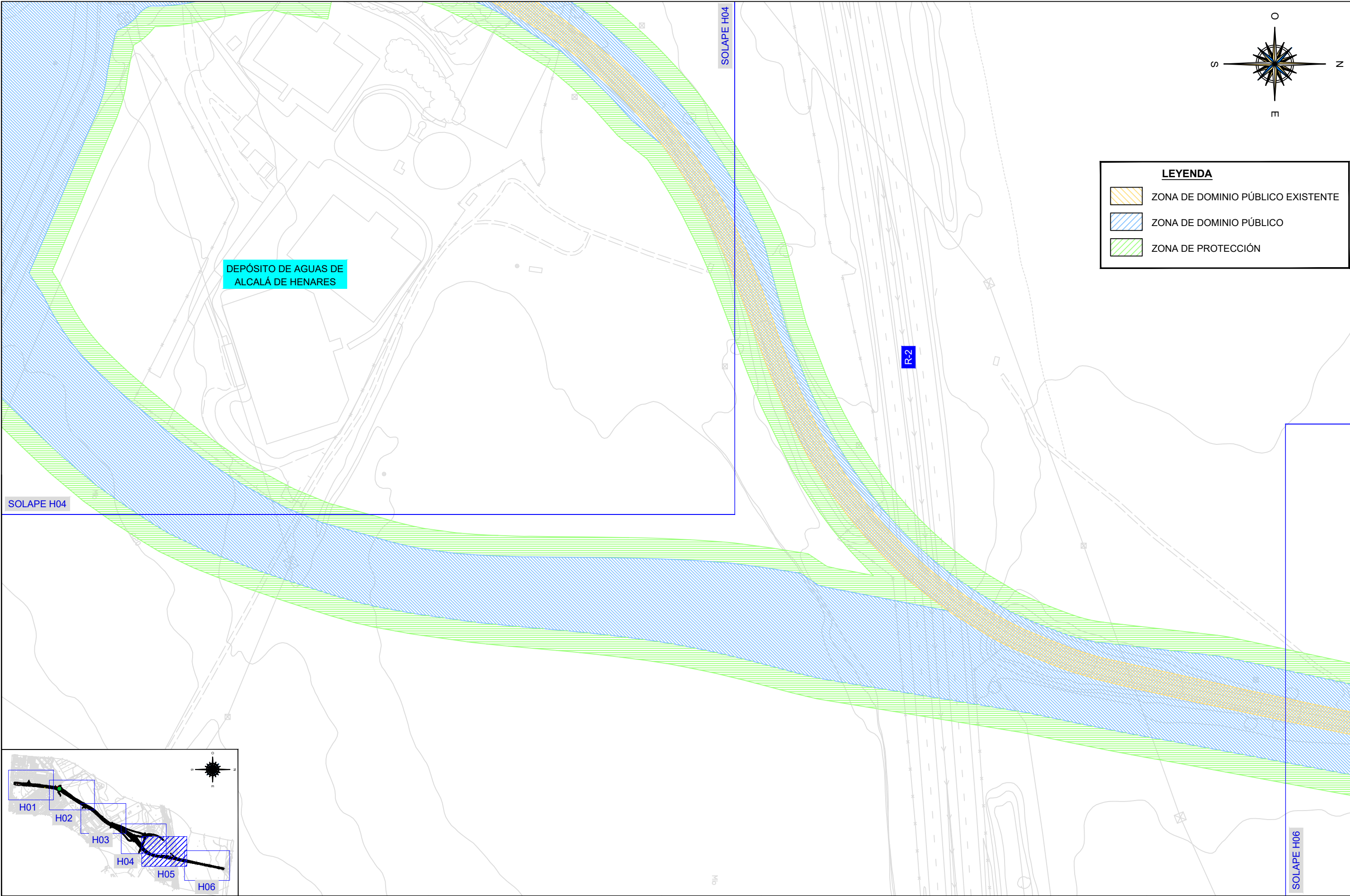
**LEYENDA**

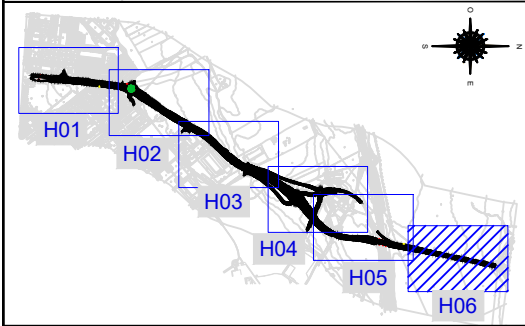
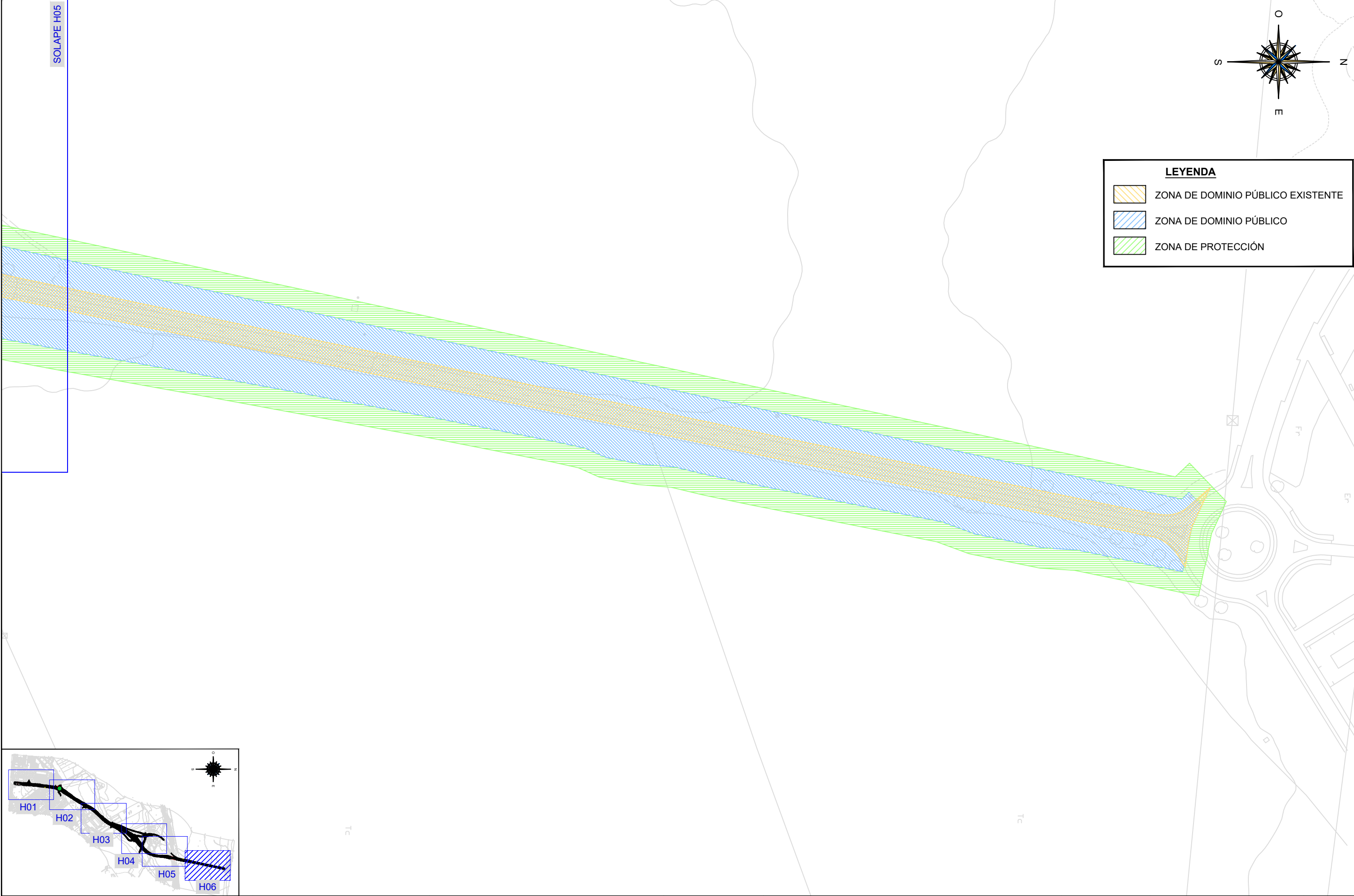
- ZONA DE DOMINIO PÚBLICO EXISTENTE
- ZONA DE DOMINIO PÚBLICO
- ZONA DE PROTECCIÓN



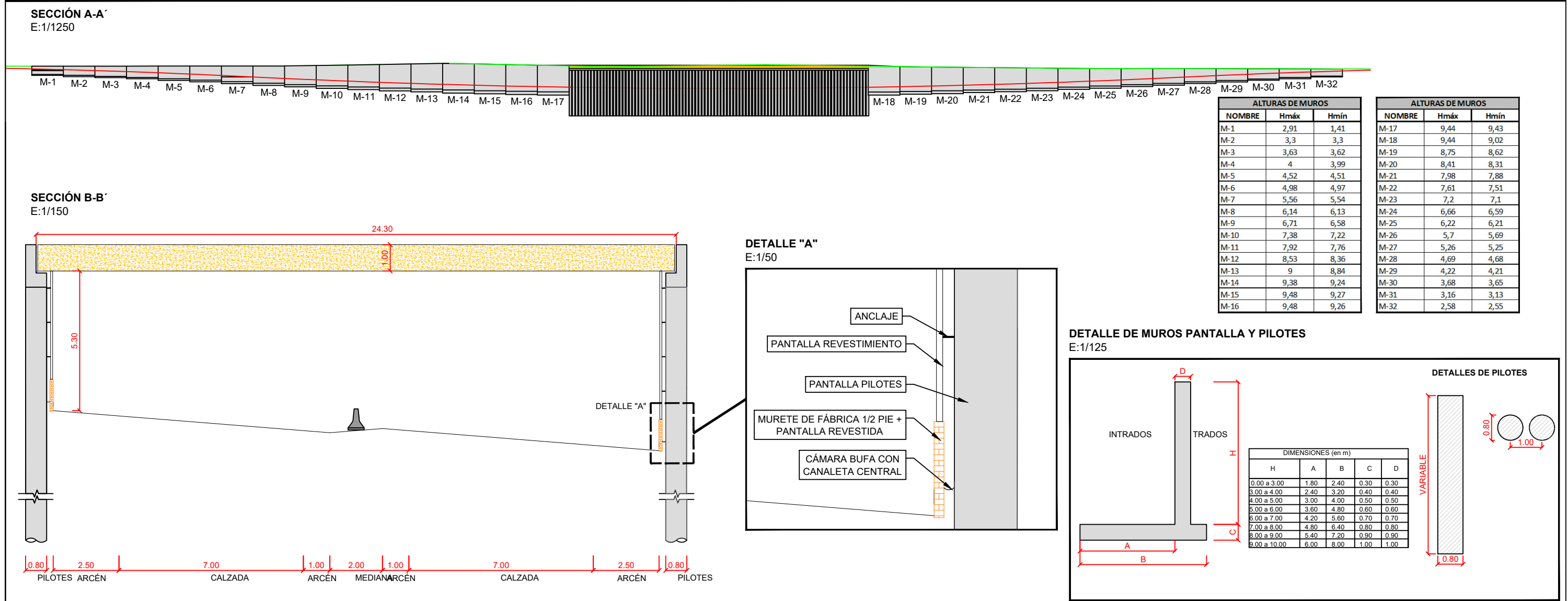
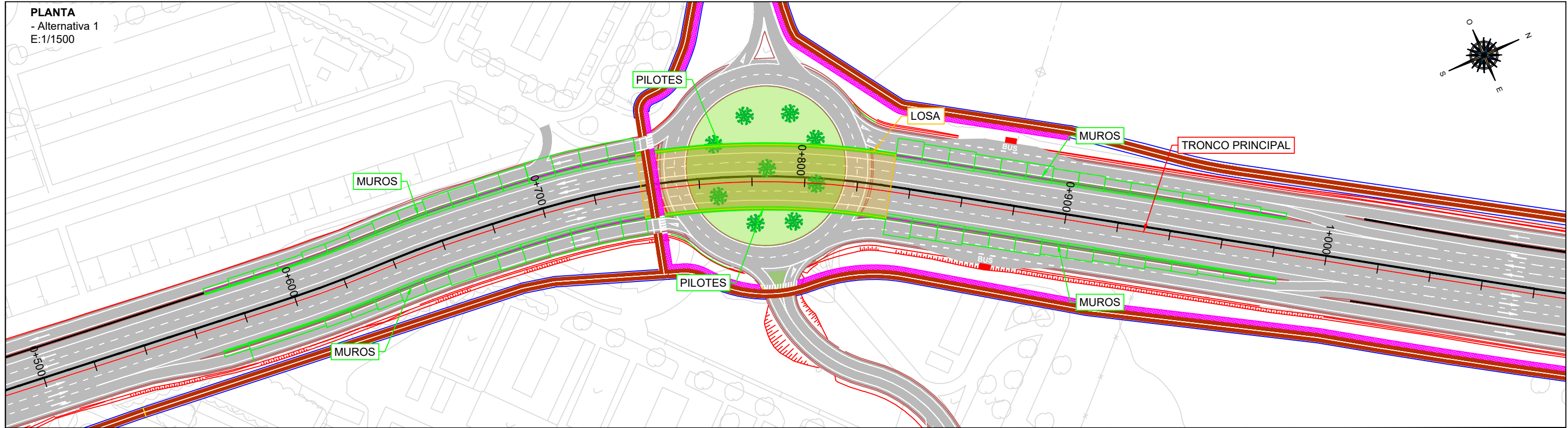


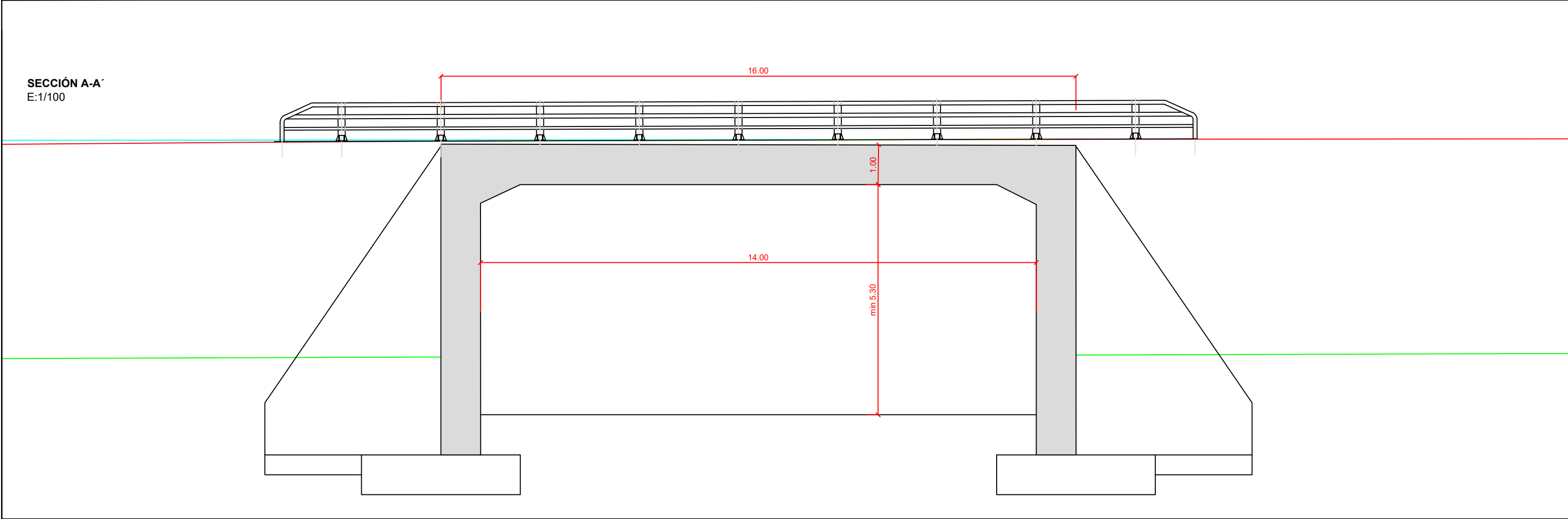
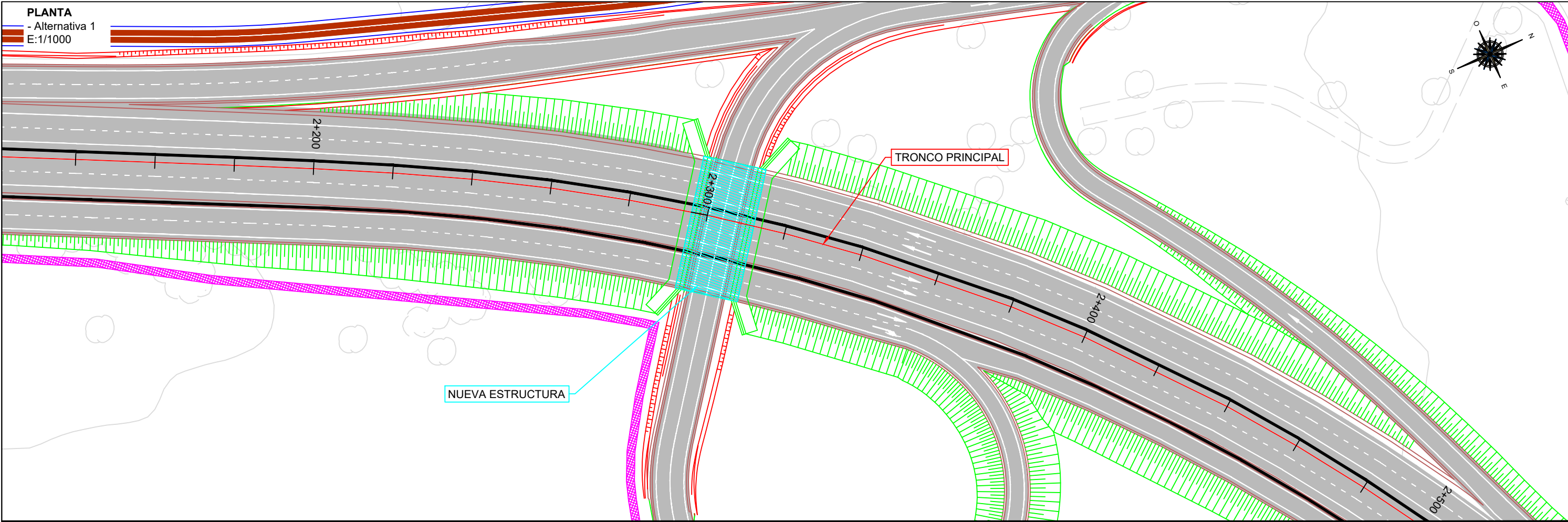




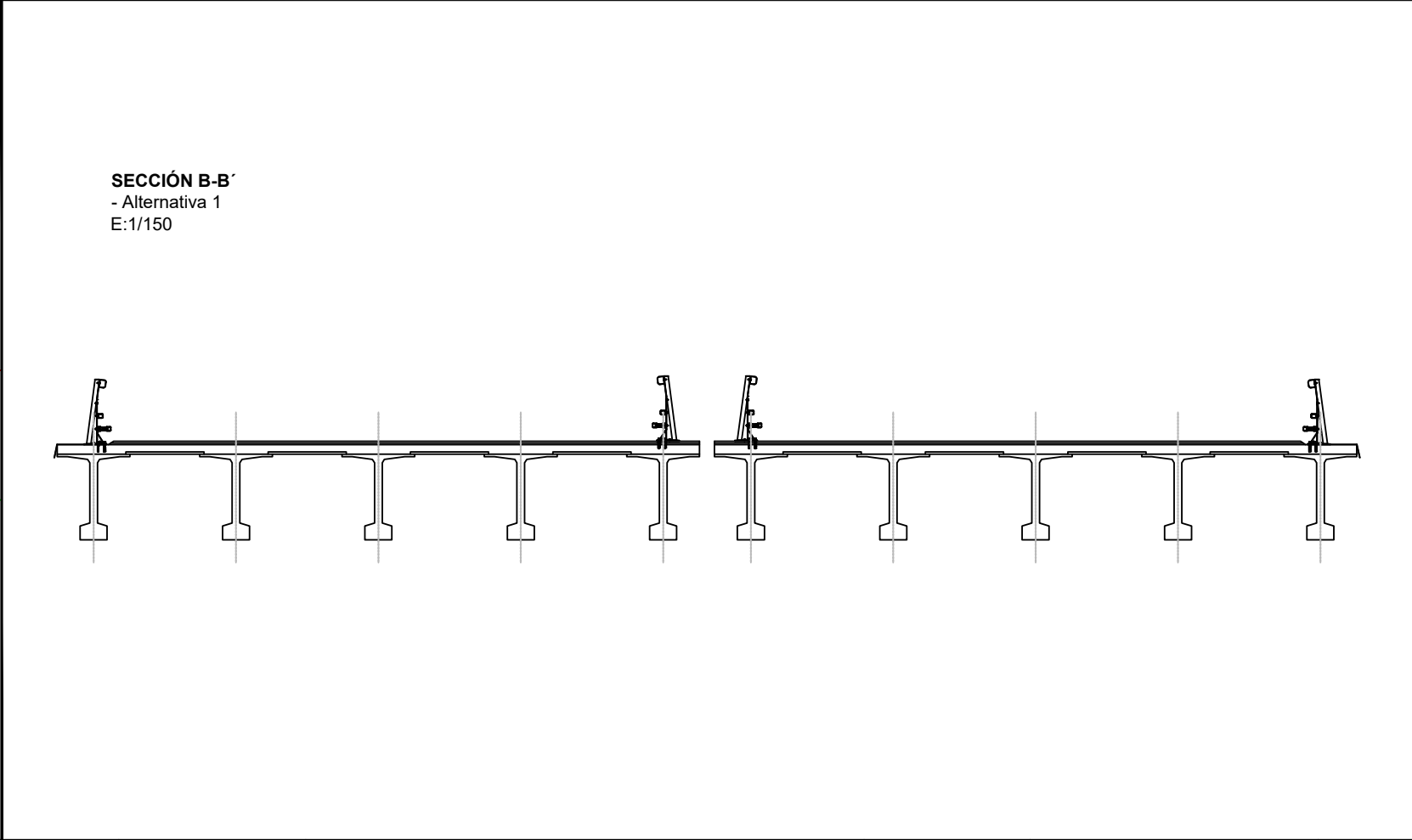
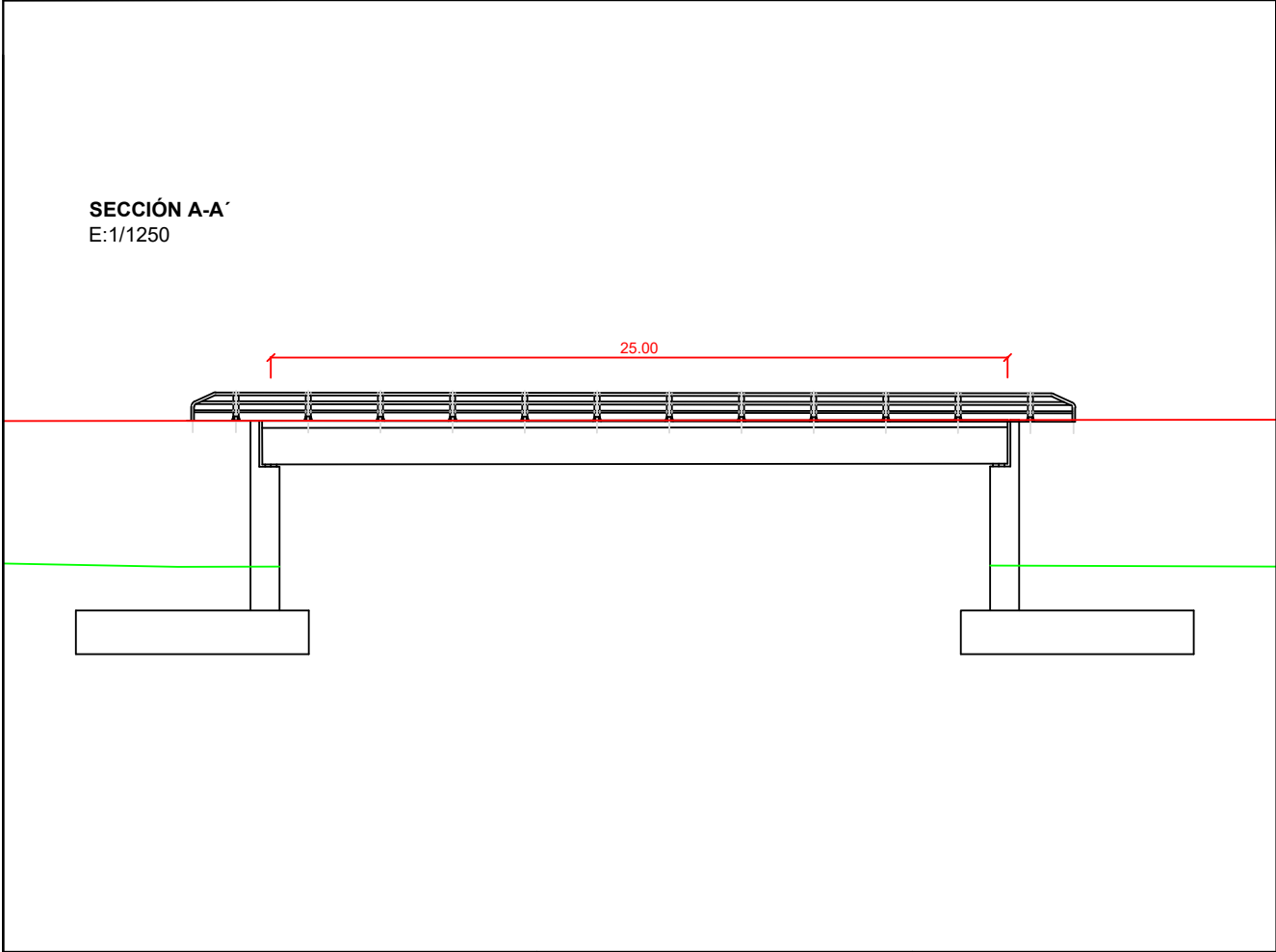
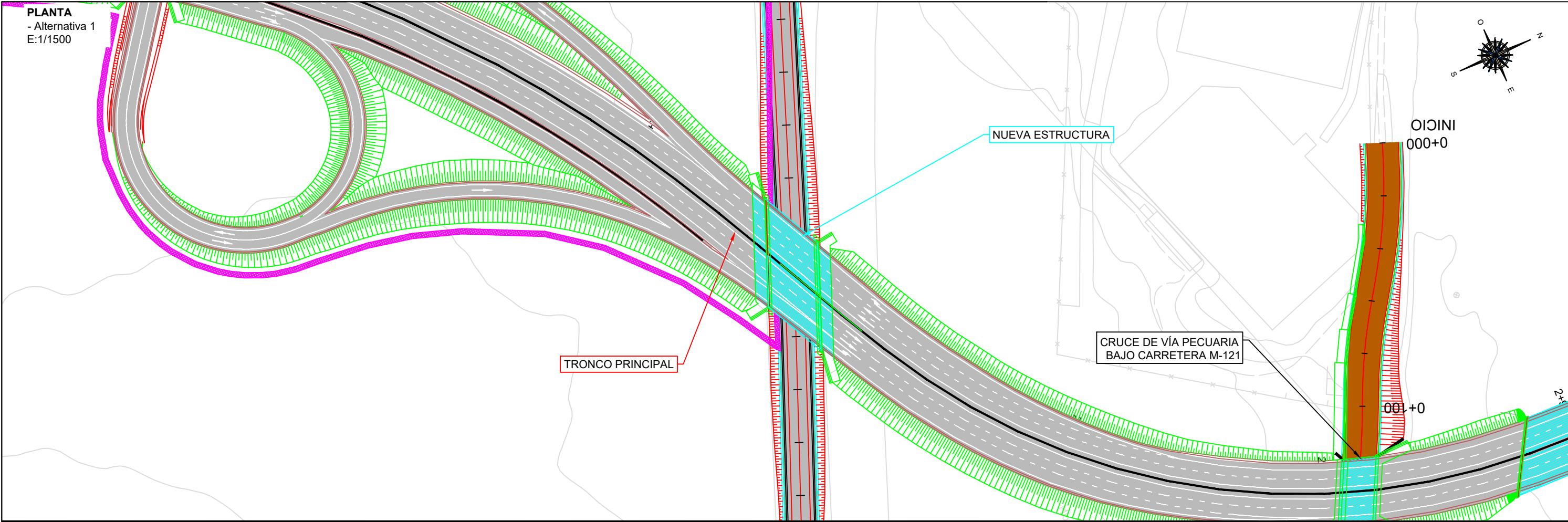


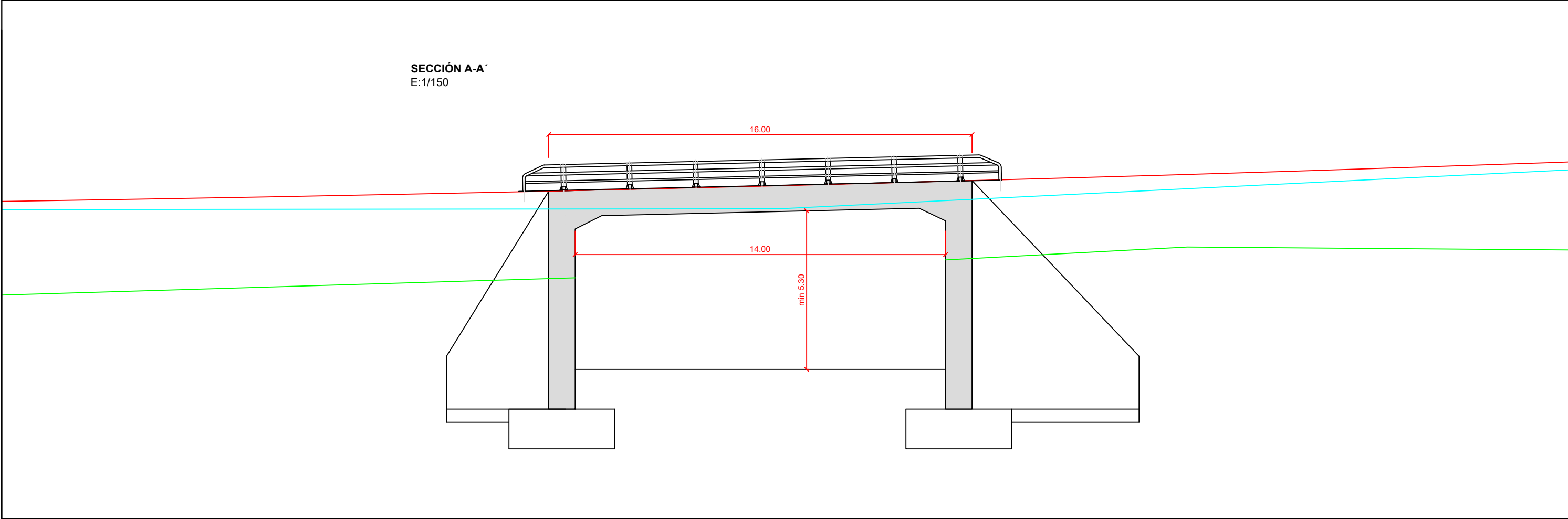
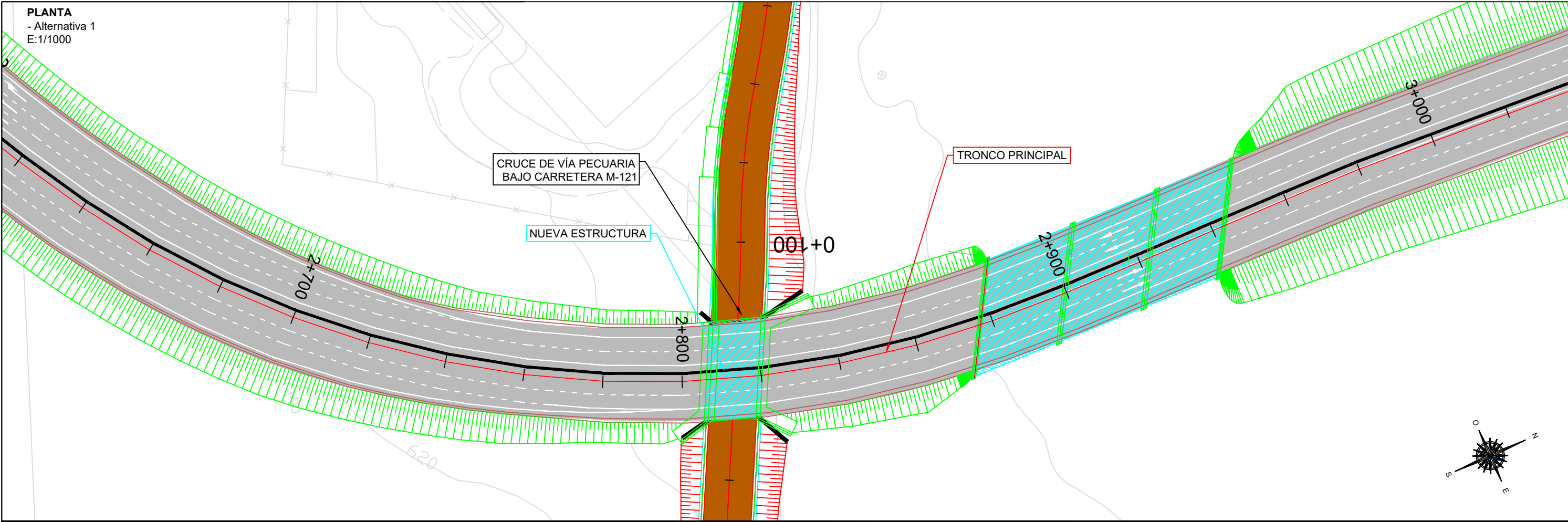


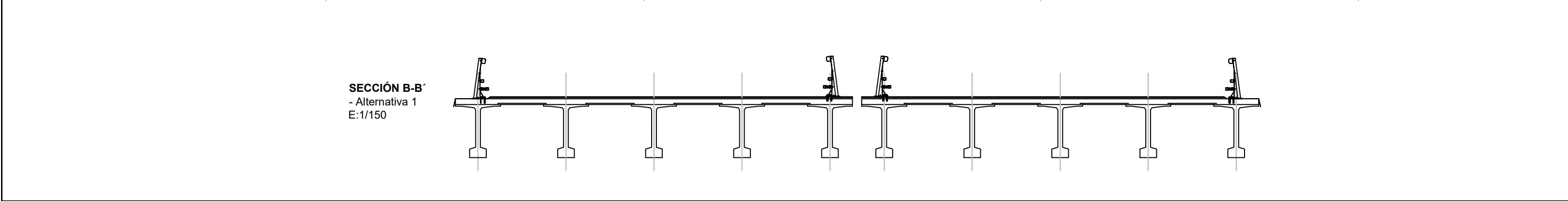
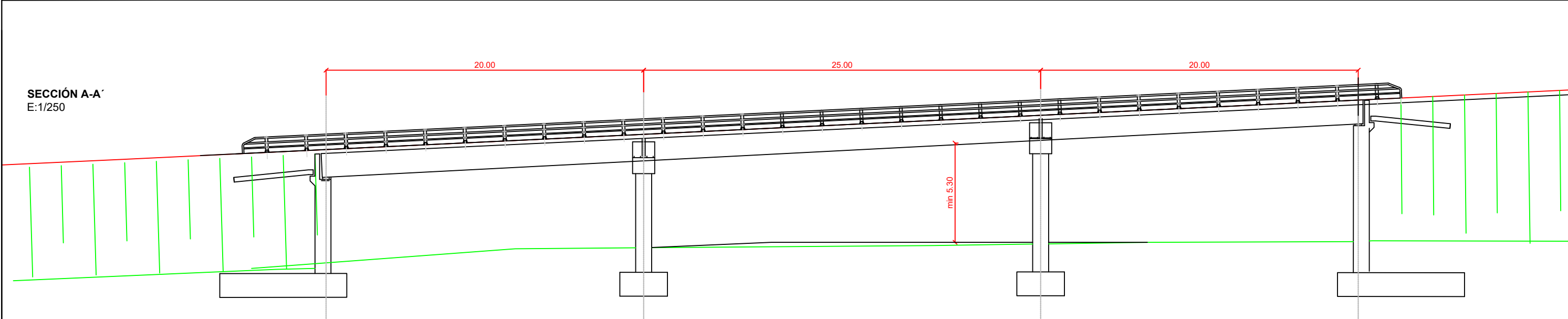
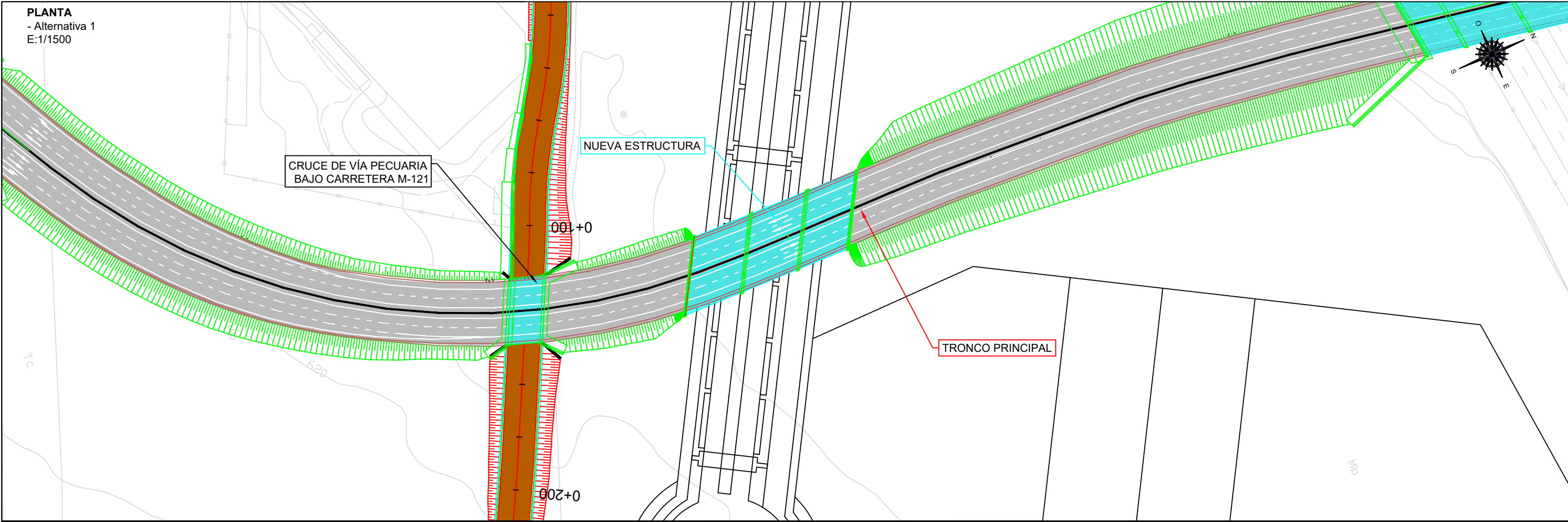




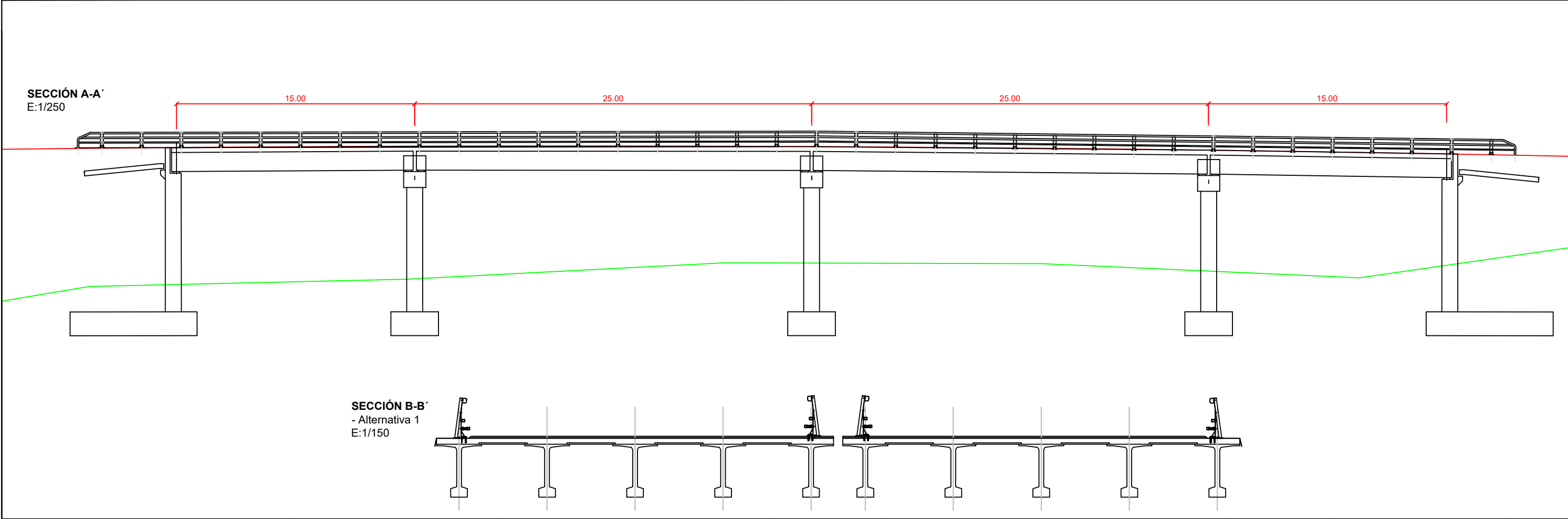
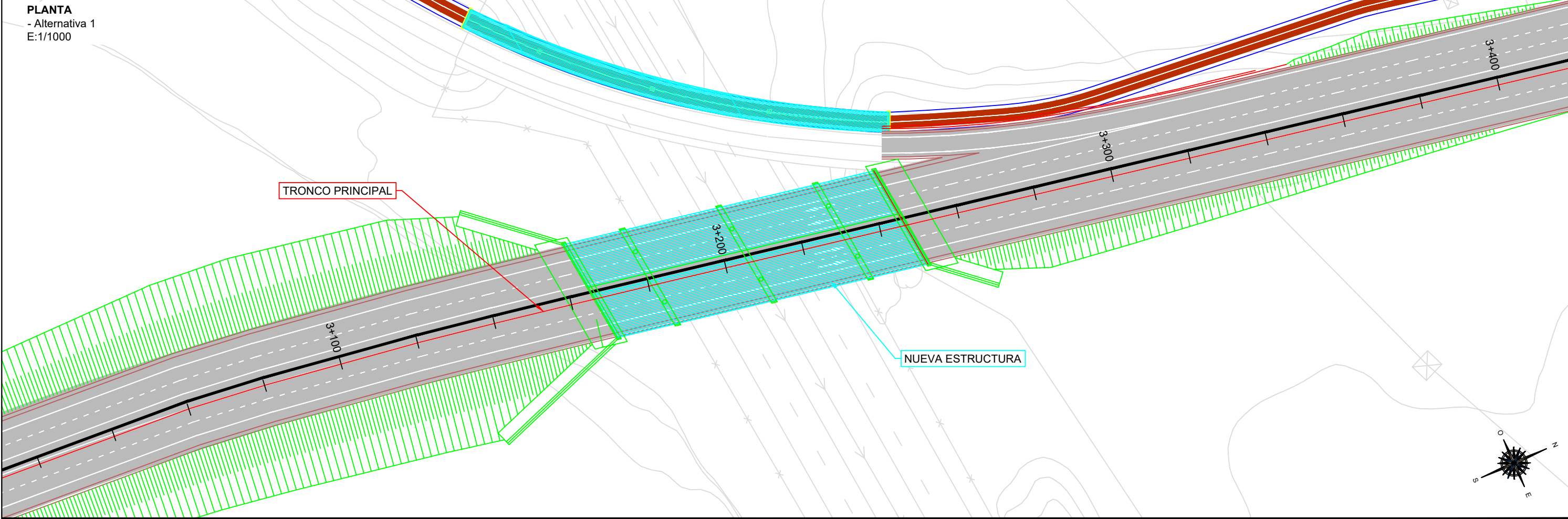




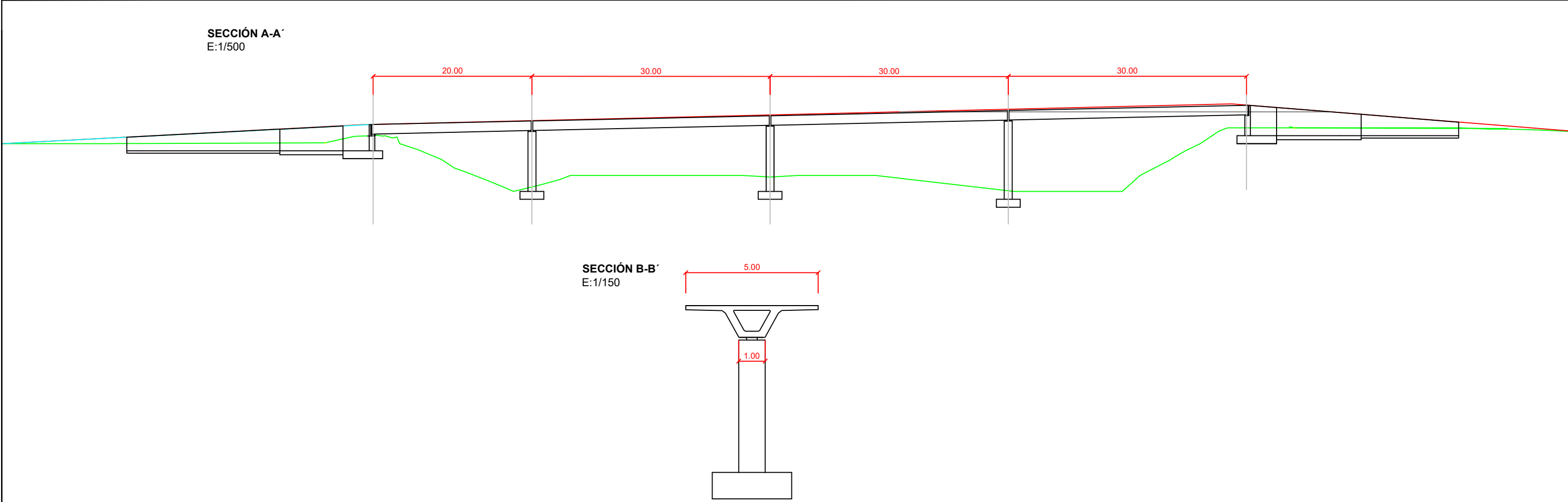
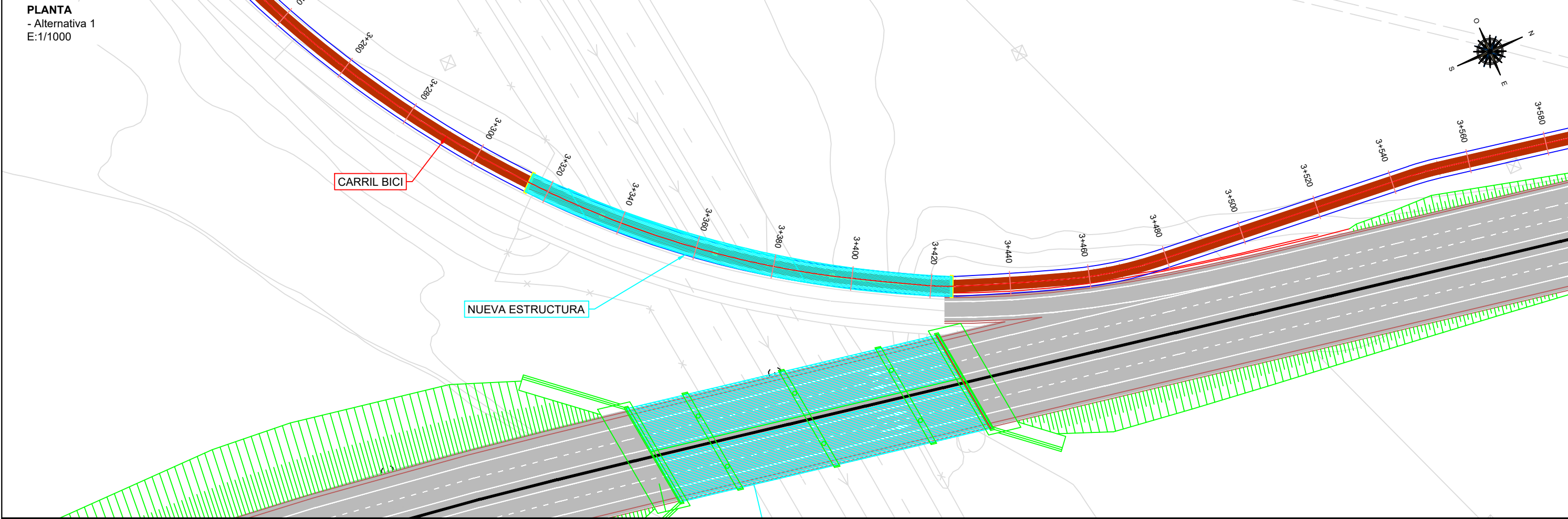


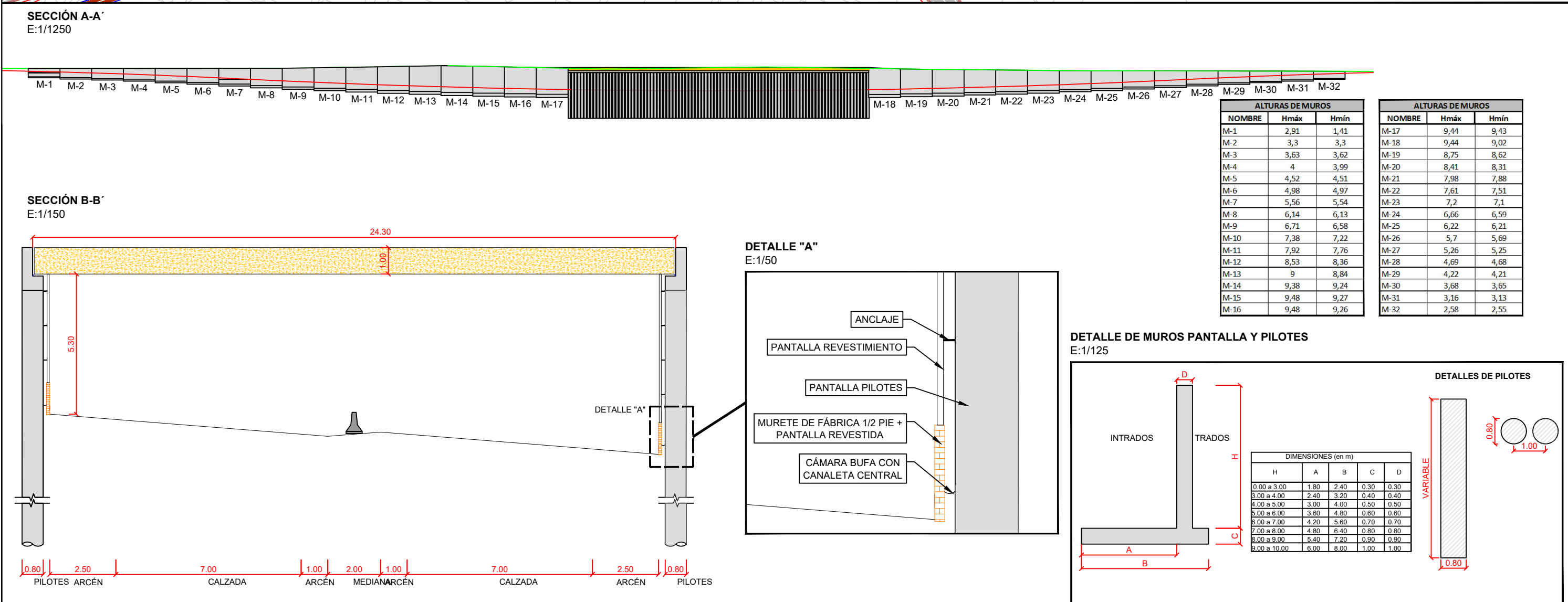
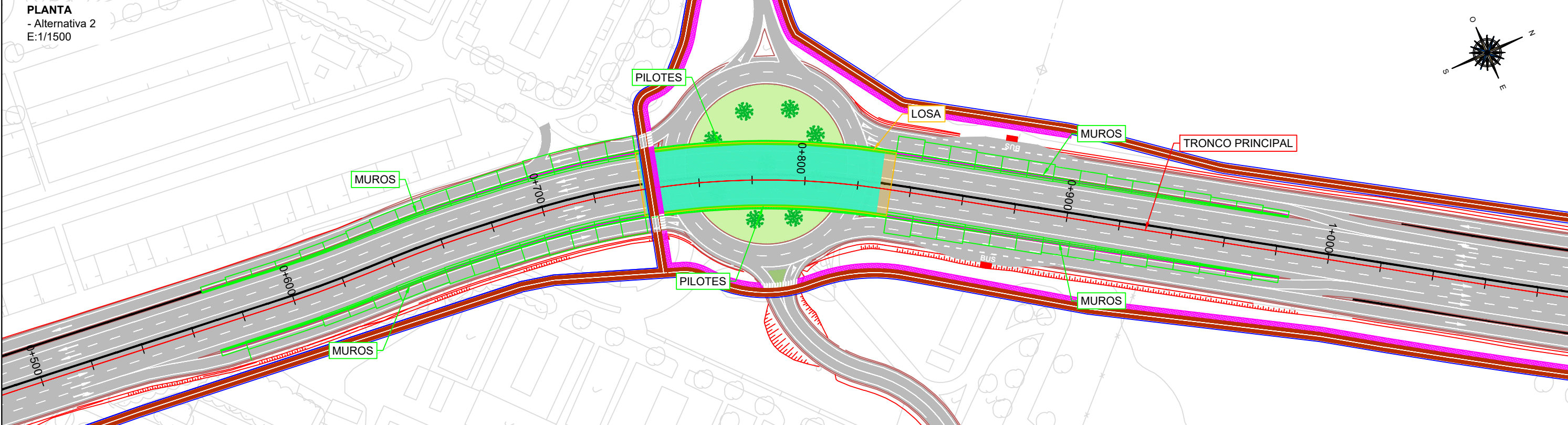




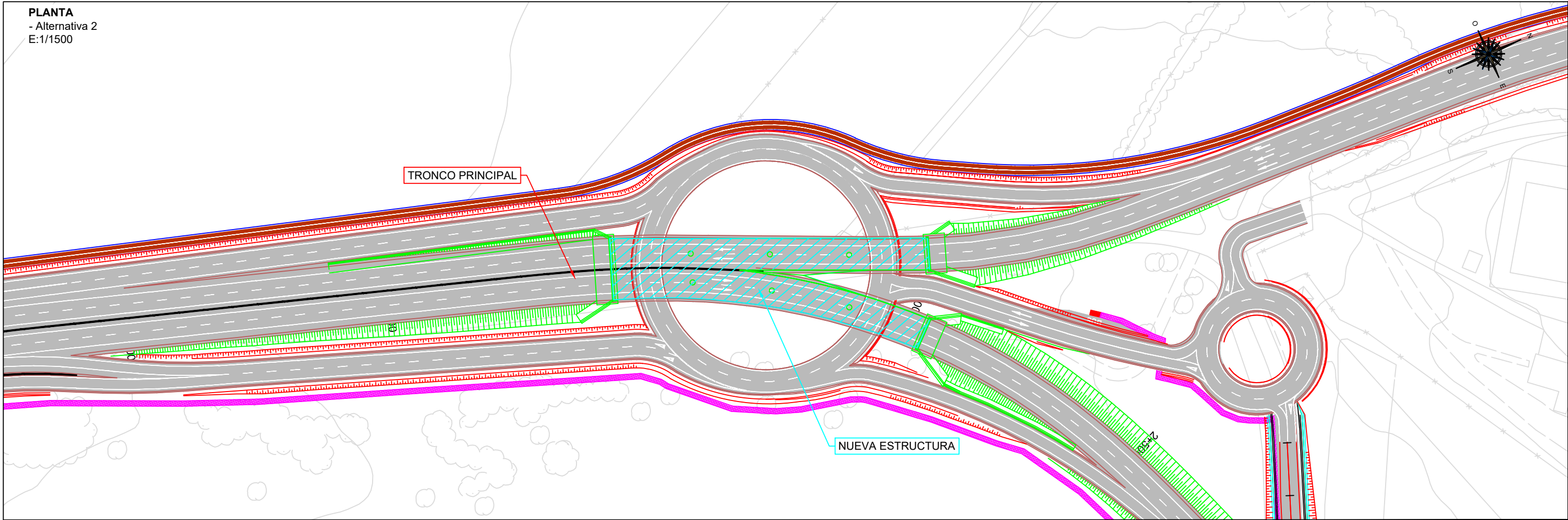




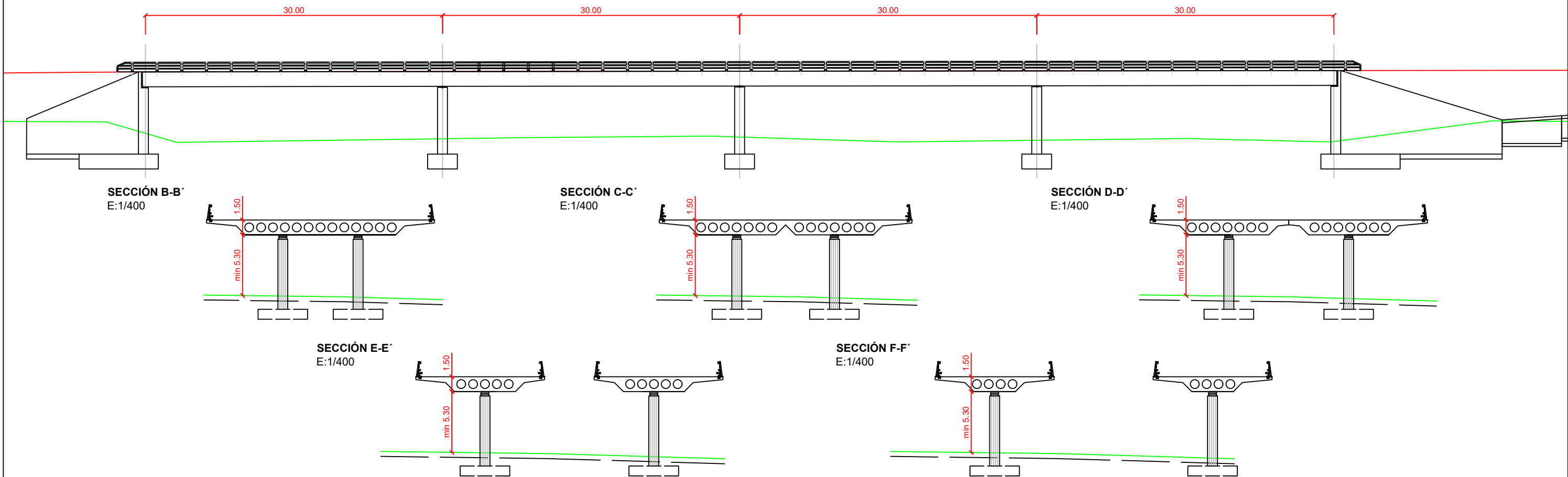







PLANTA  
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E:1/1500

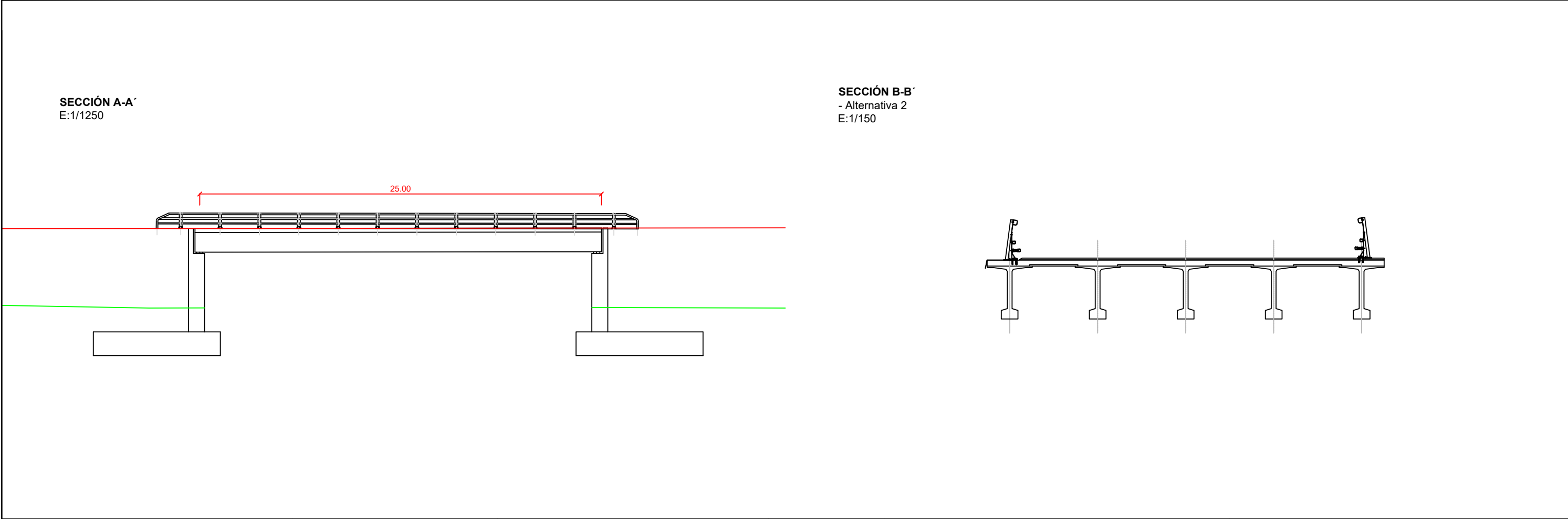
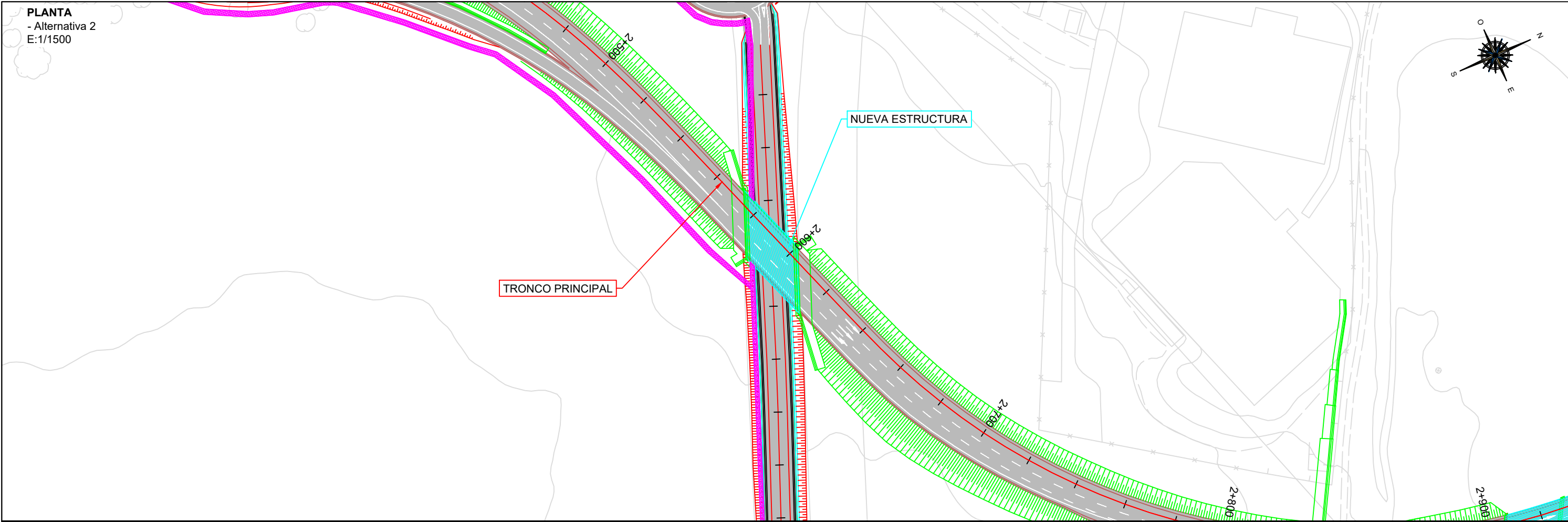


SECCIÓN A-A'  
E:1/400

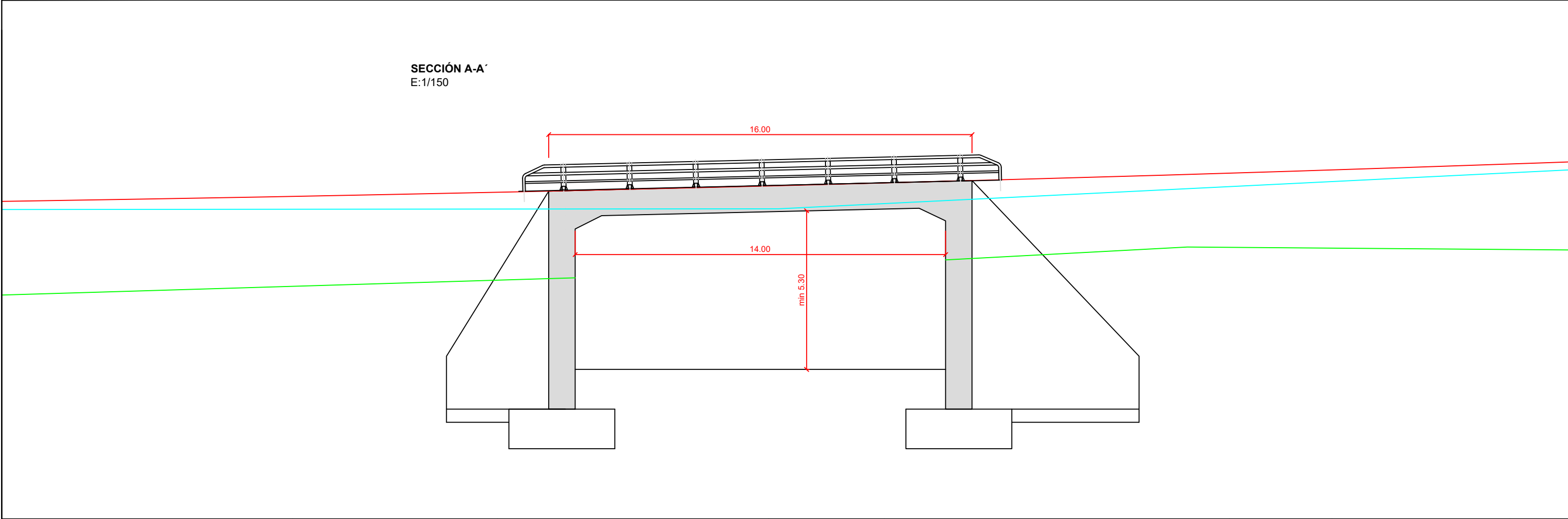
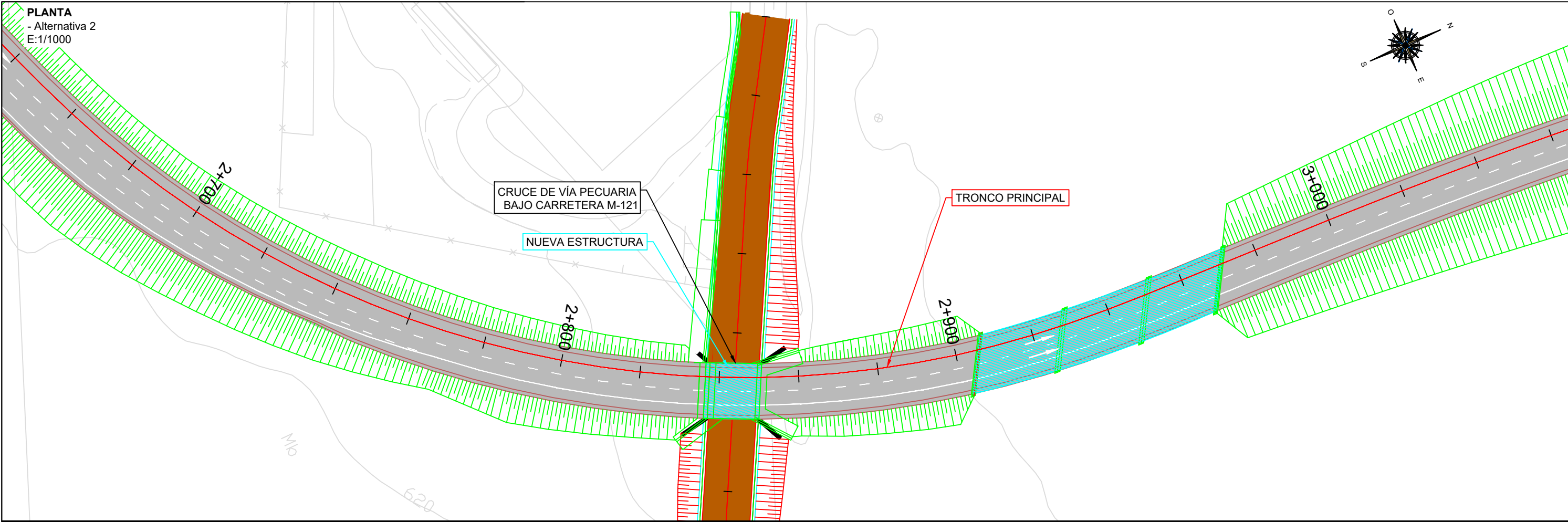


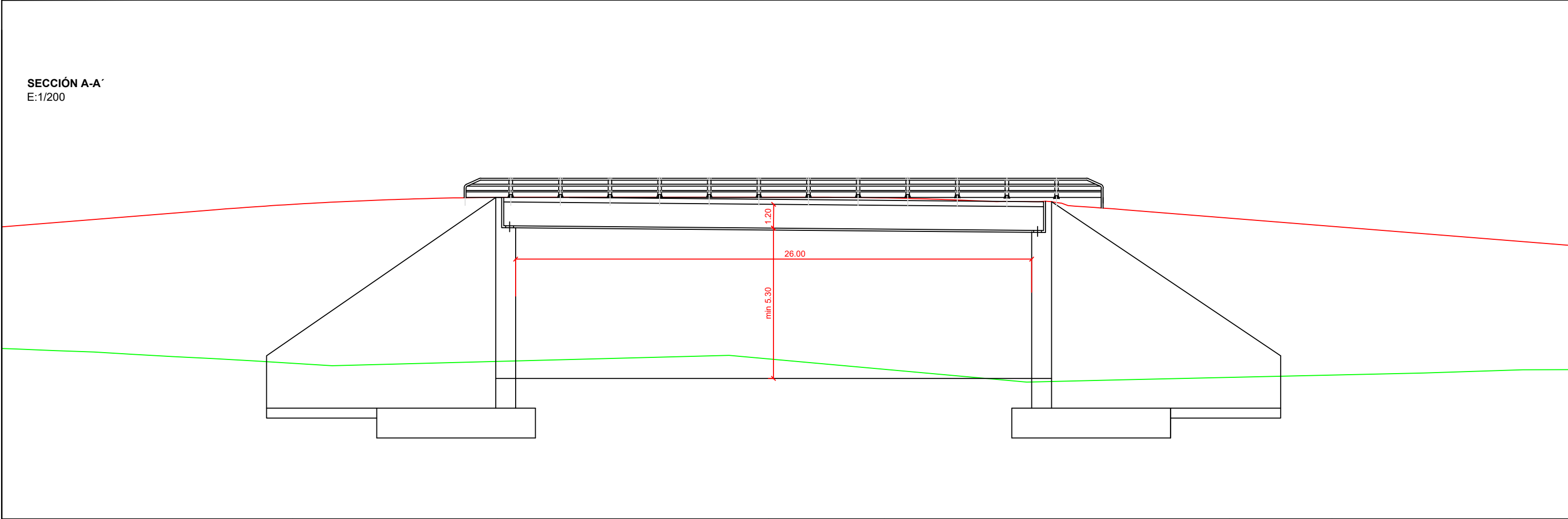
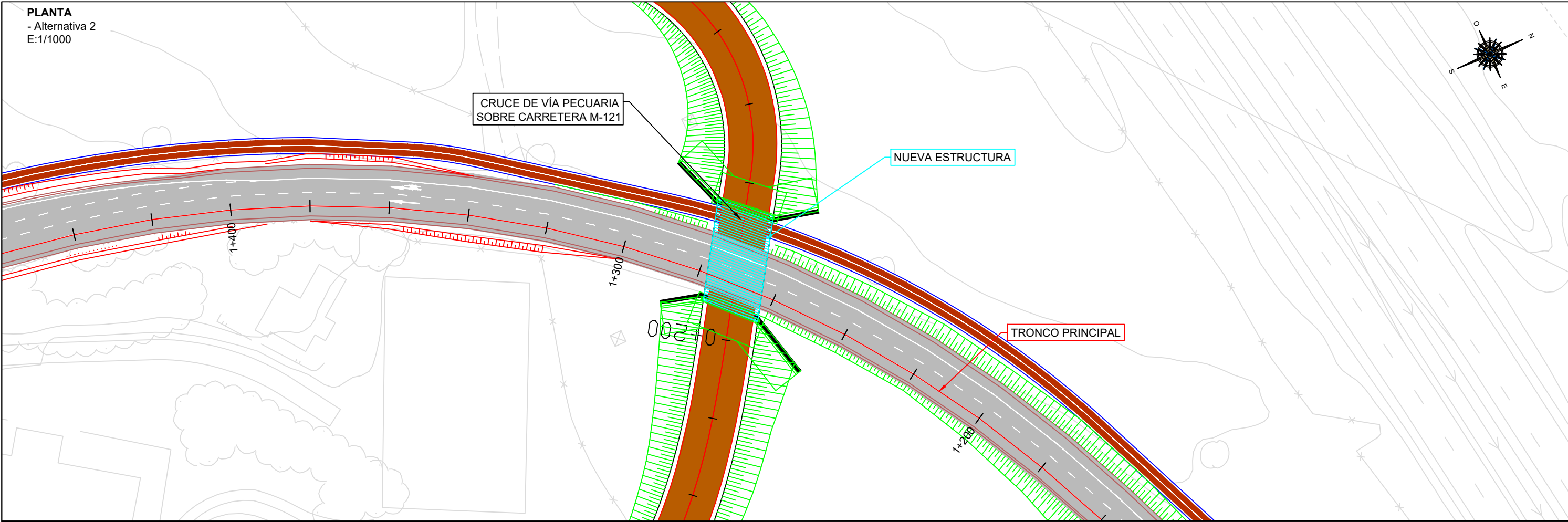
<p>ORGANISMO</p> <p> CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS <b>Comunidad de Madrid</b></p>	<p>CONSULTOR</p> <p> <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.</p>	<p>AUTOR DEL ESTUDIO</p> <p> JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS</p>	<p>ESCALAS</p> <p>0 5 10 15 20 INDICADAS</p>	<p>TÍTULO DE PROYECTO</p> <p>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</p>	<p>FECHA</p> <p>JUNIO 2023</p> <p>FICHERO</p> <p>11-02.02.dwg</p>	<p>DESIGNACIÓN</p> <p>DEFINICIÓN DE LAS ESTRUCTURAS ENLACE PRISIONES. E2. 2 ALTERNATIVA 2</p>	<p>Nº PLANO</p> <p>11-02.02</p> <p>HOJA 1 DE 1</p>
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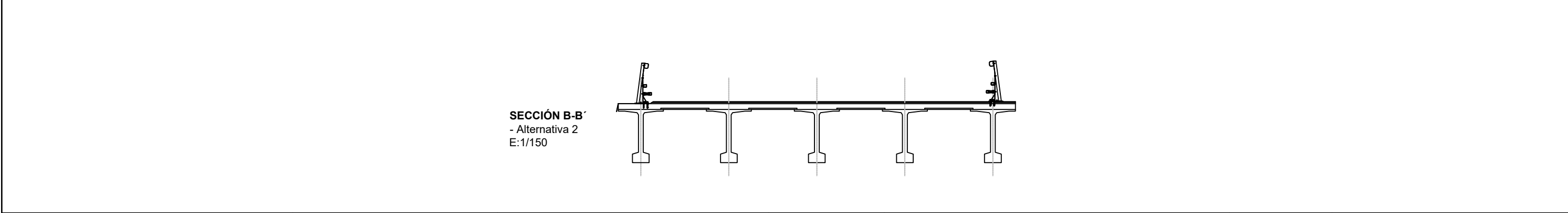
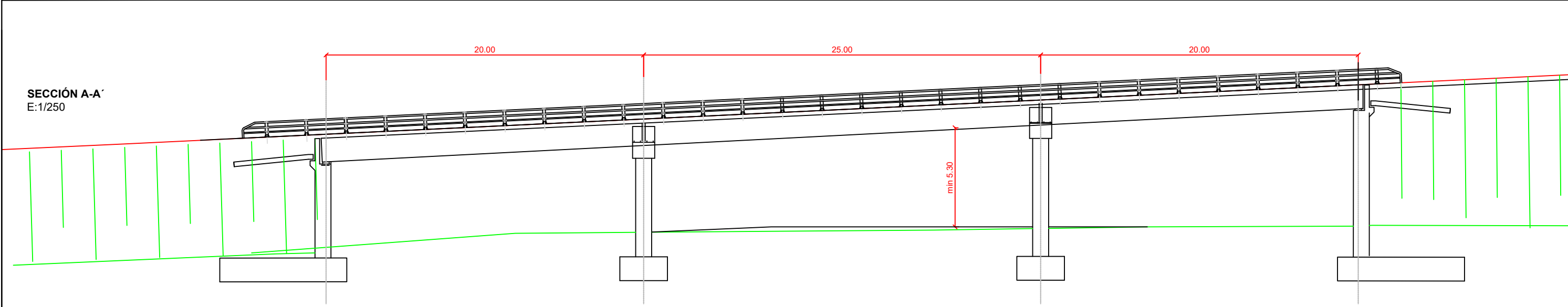
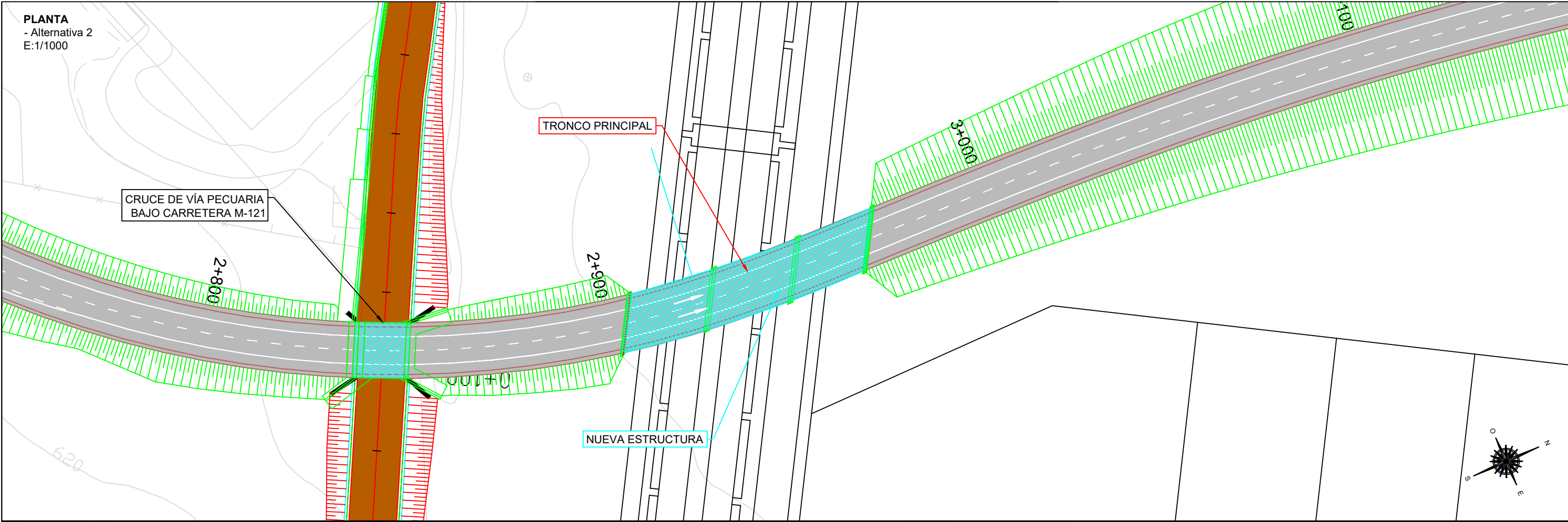




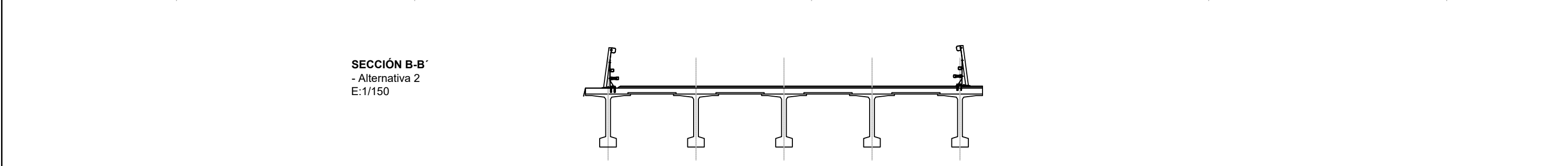
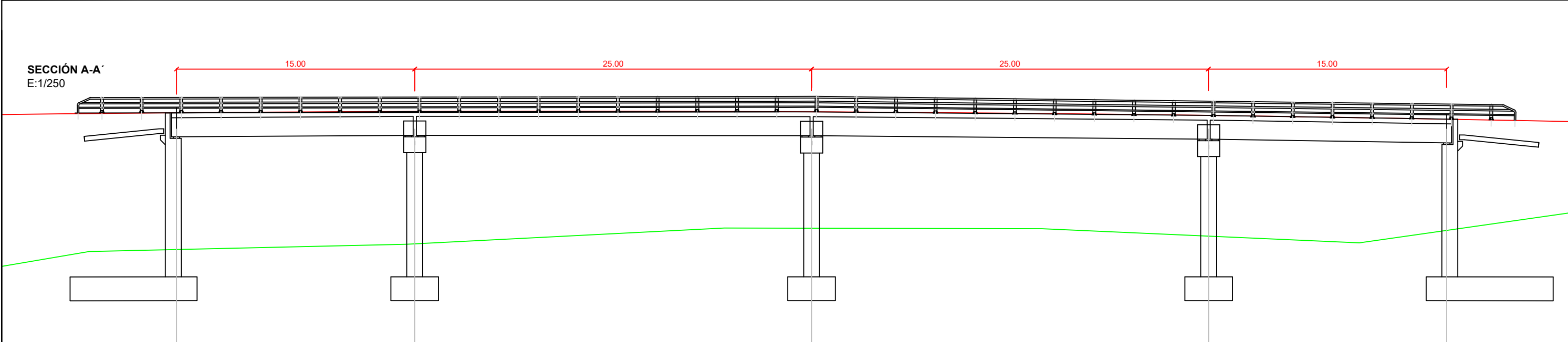
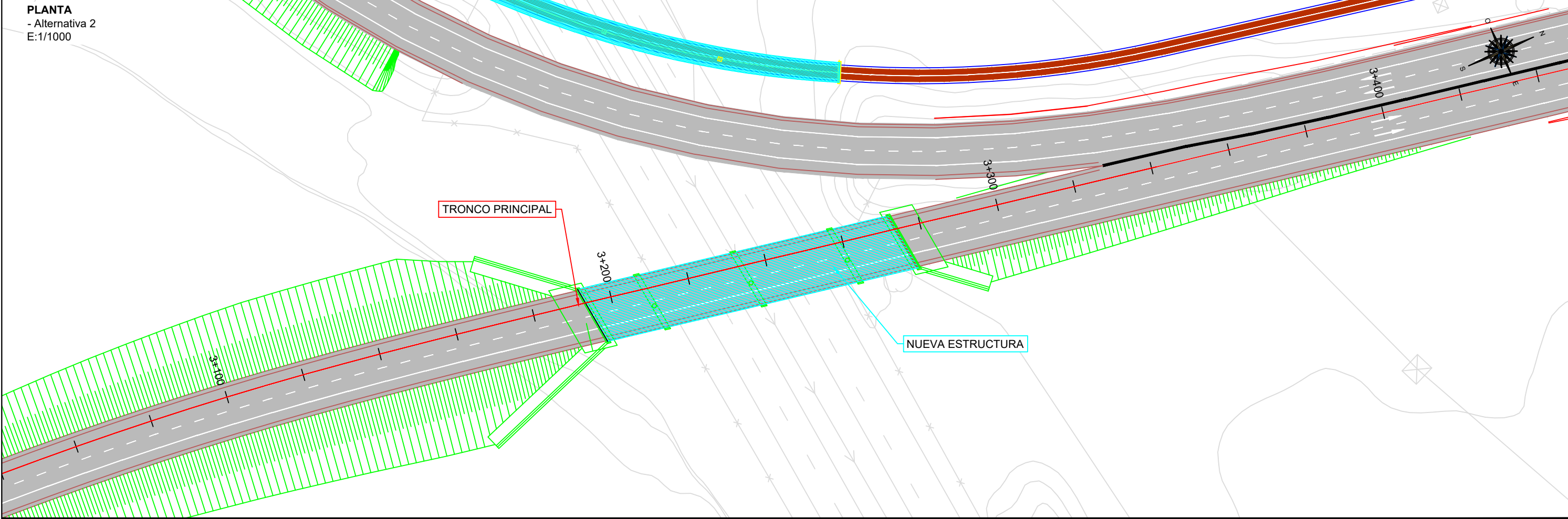




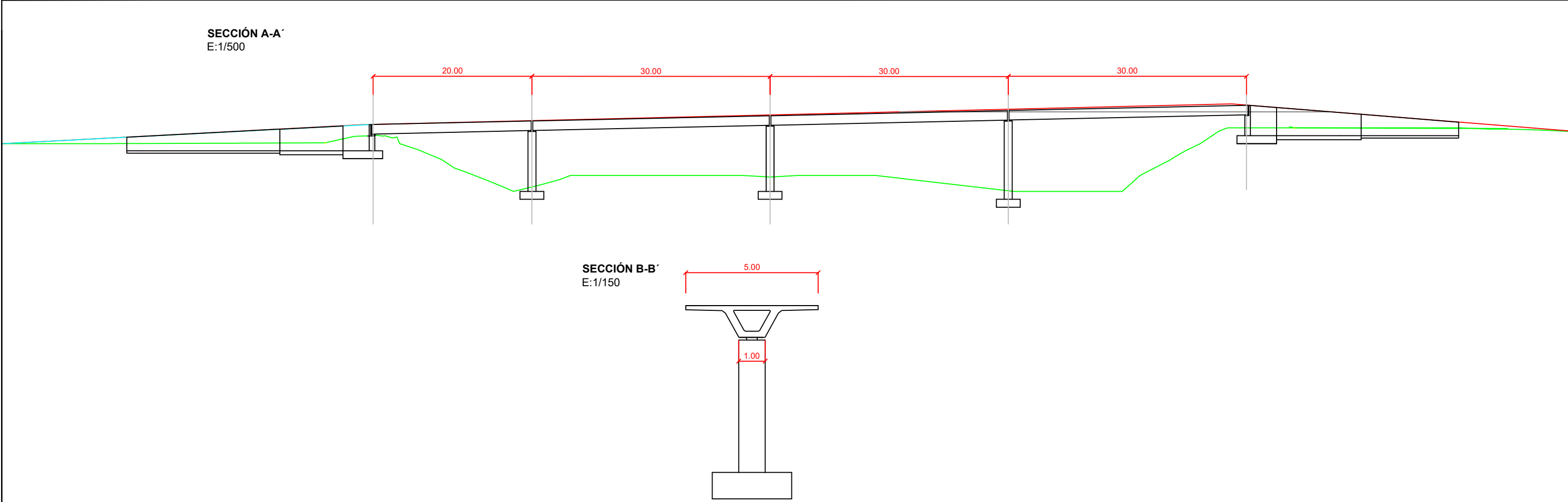
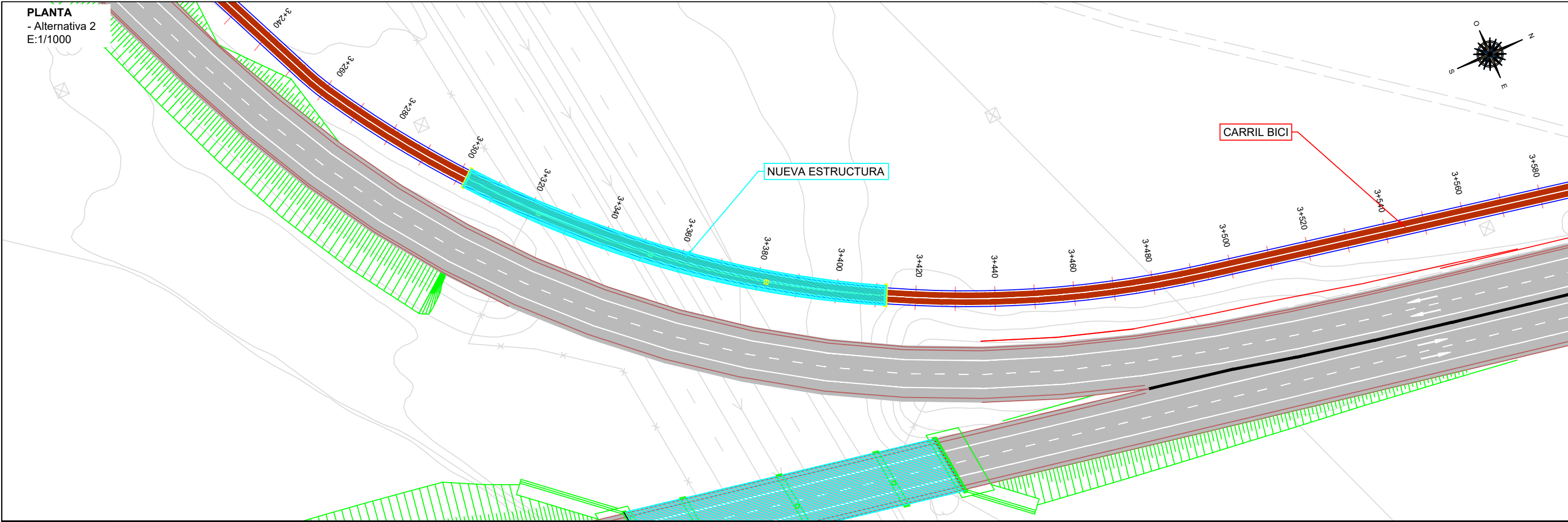


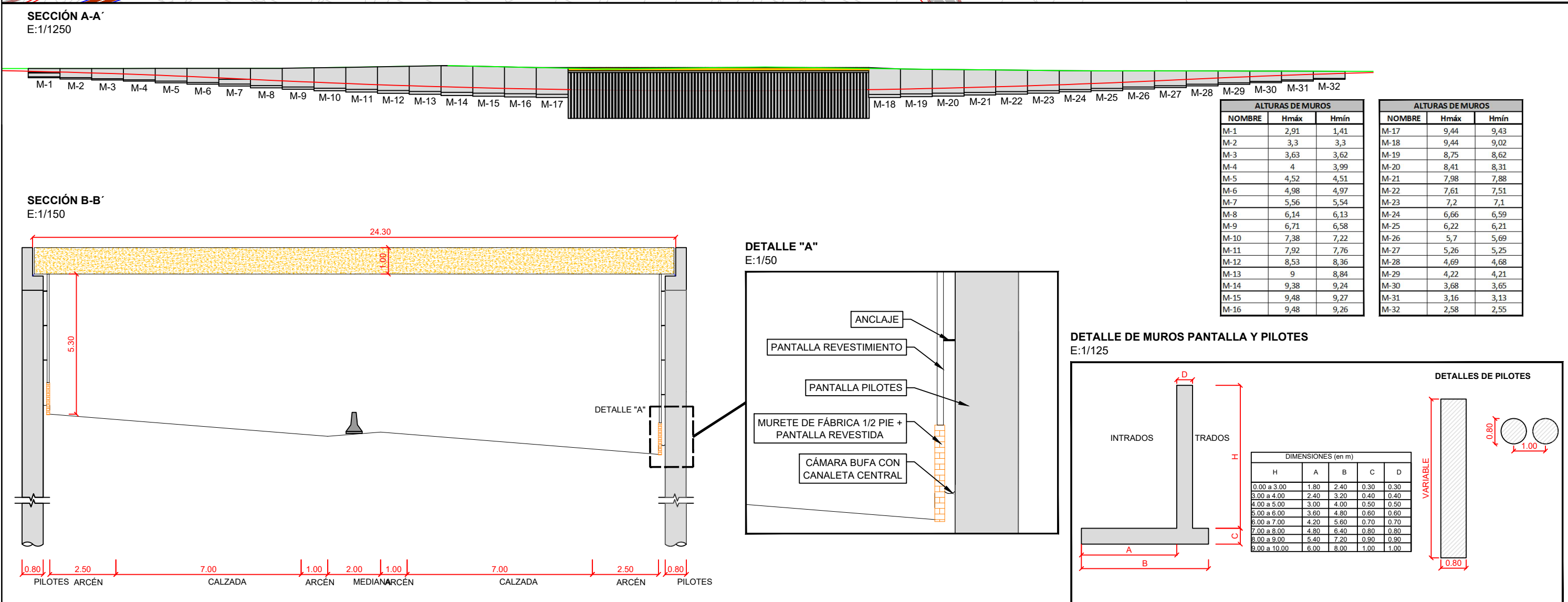
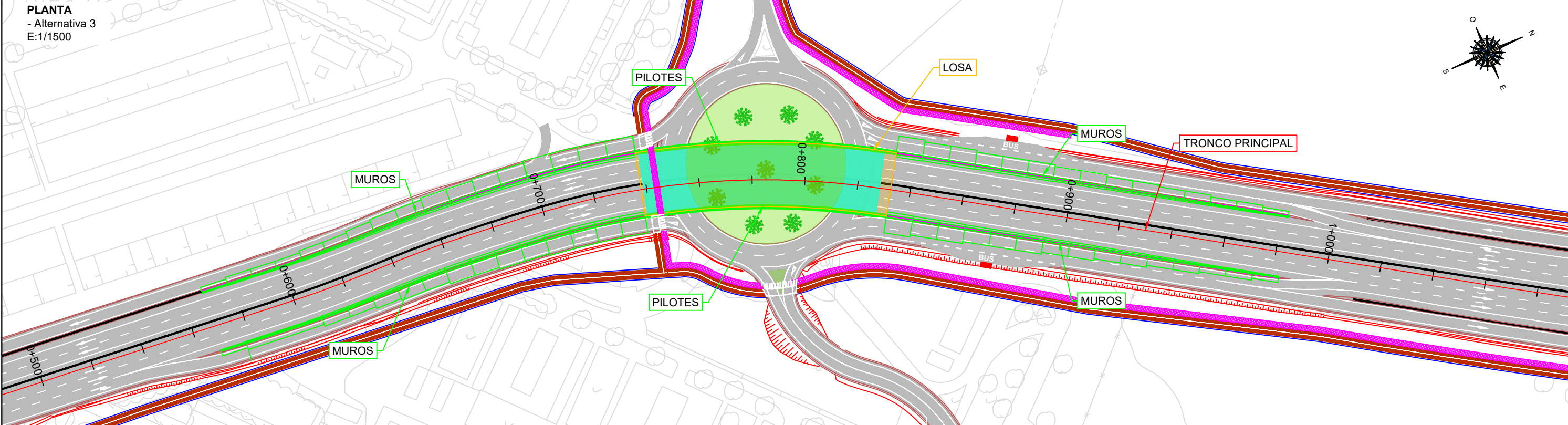




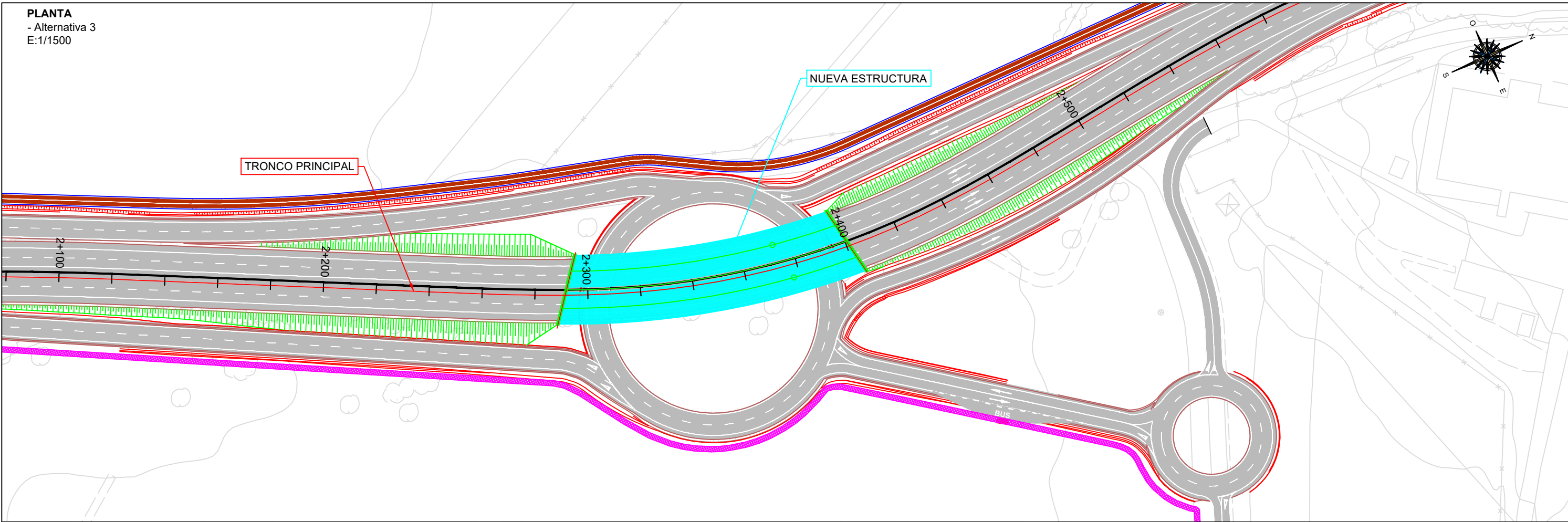




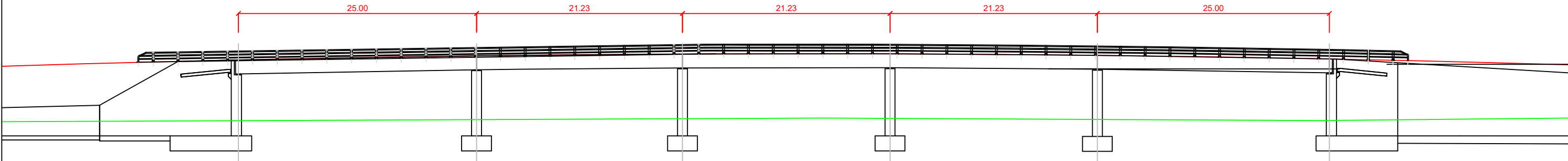




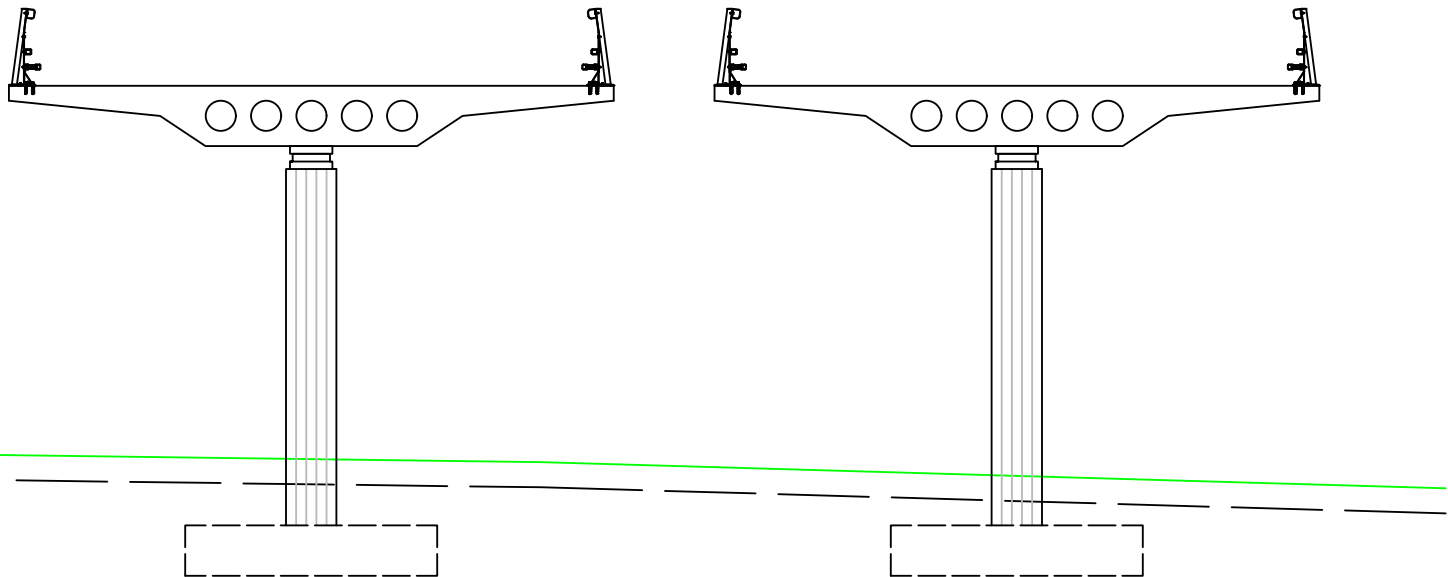
PLANTA  
- Alternativa 3  
E:1/1500



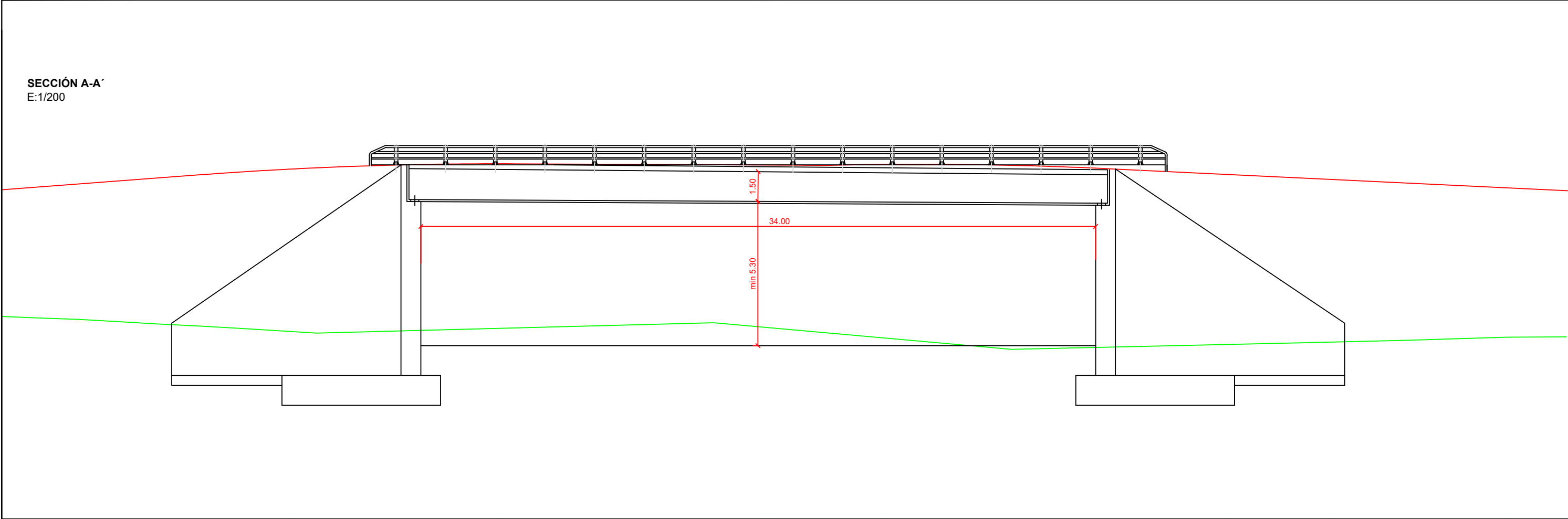
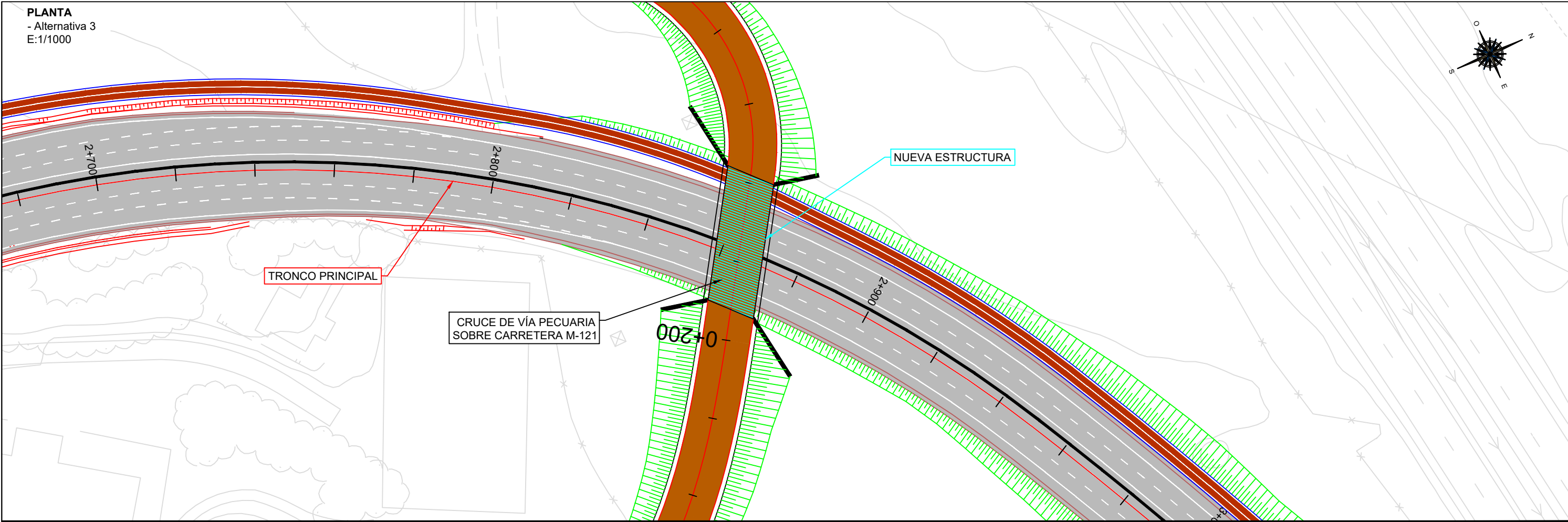
SECCIÓN A-A'  
E:1/400



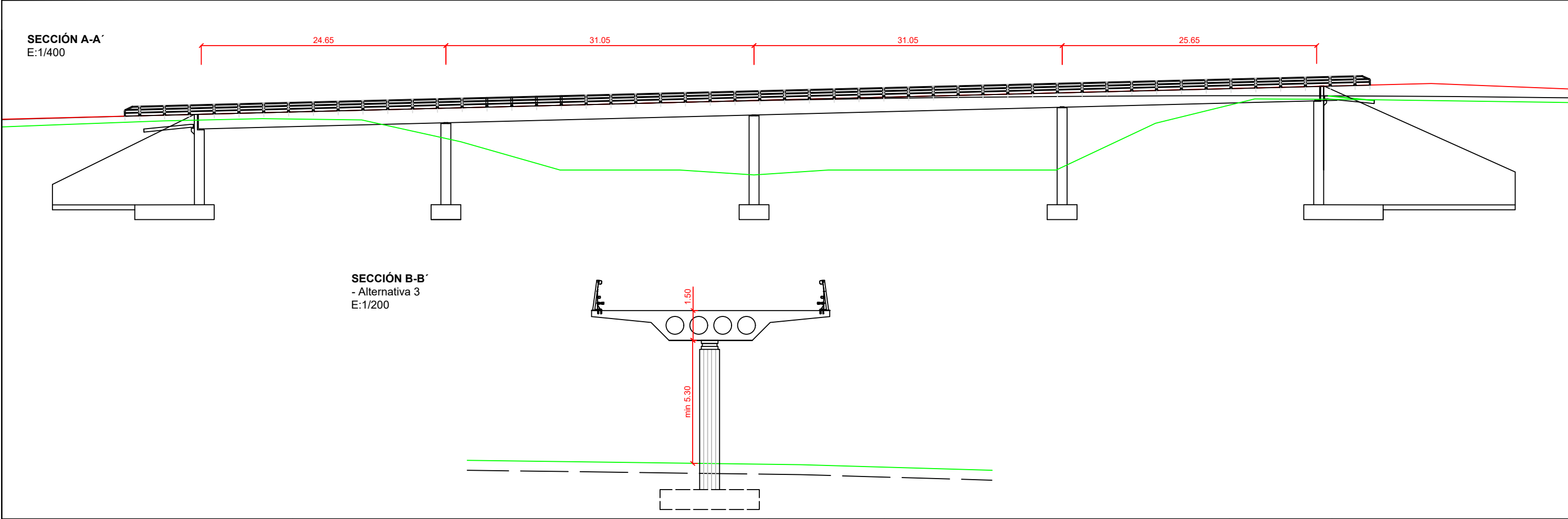
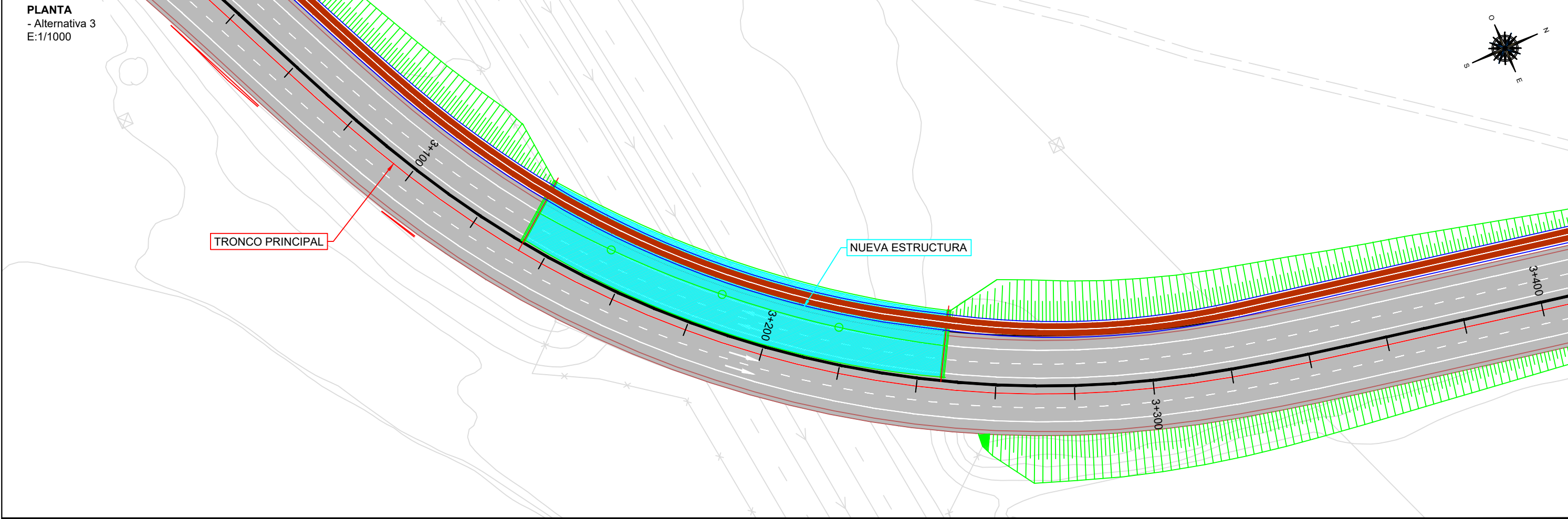
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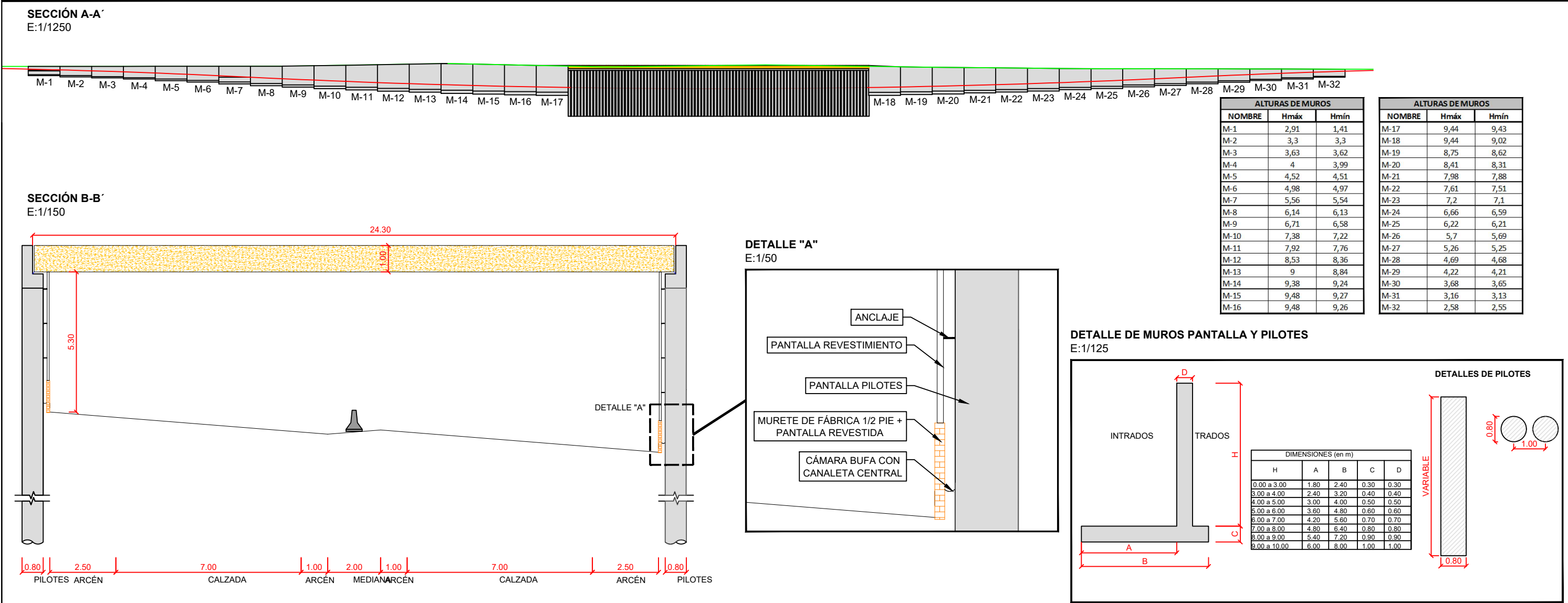
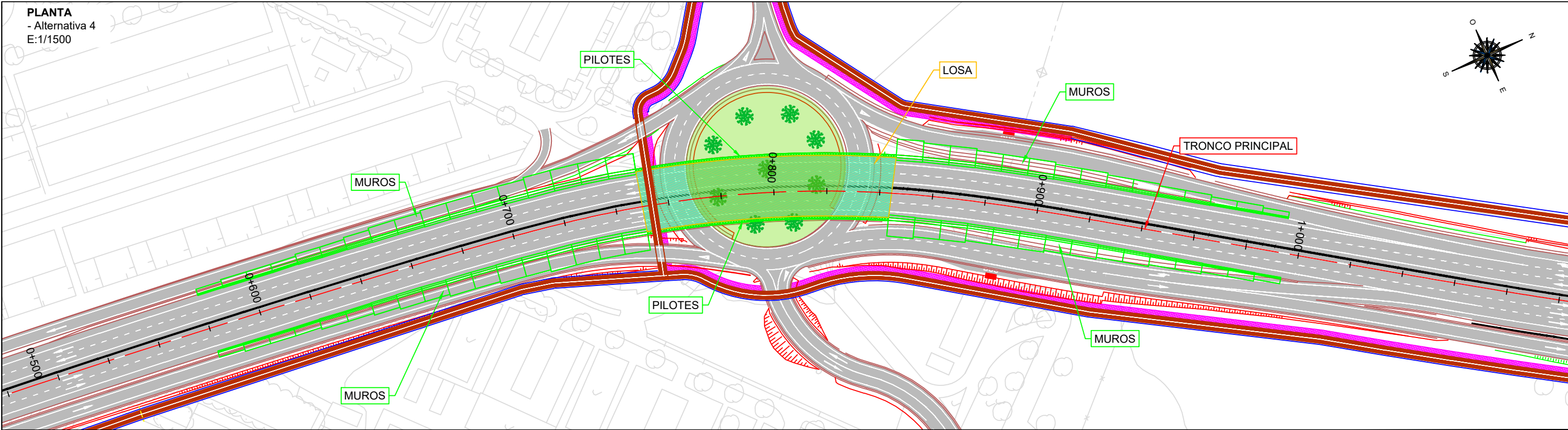




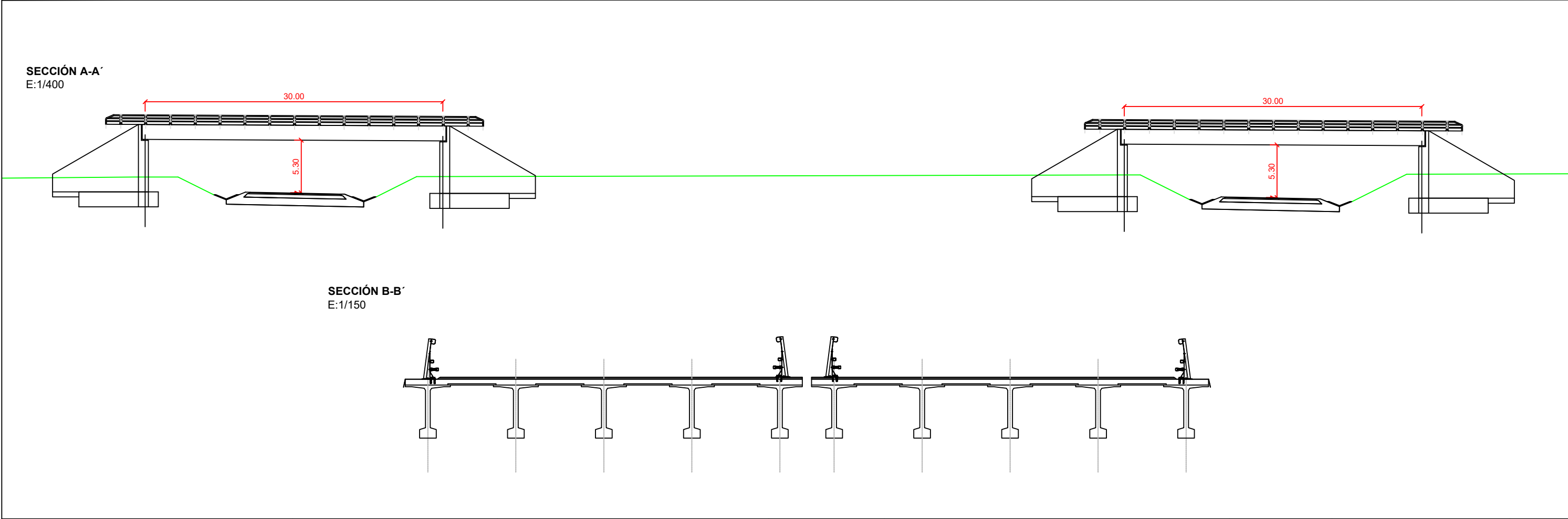
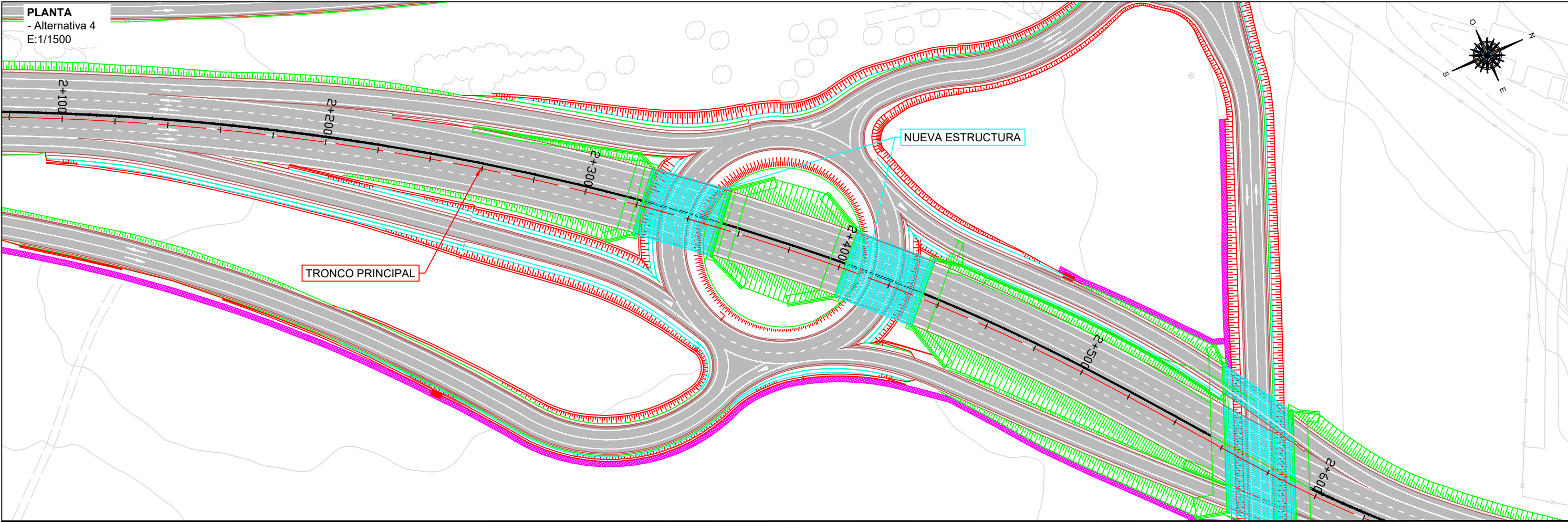


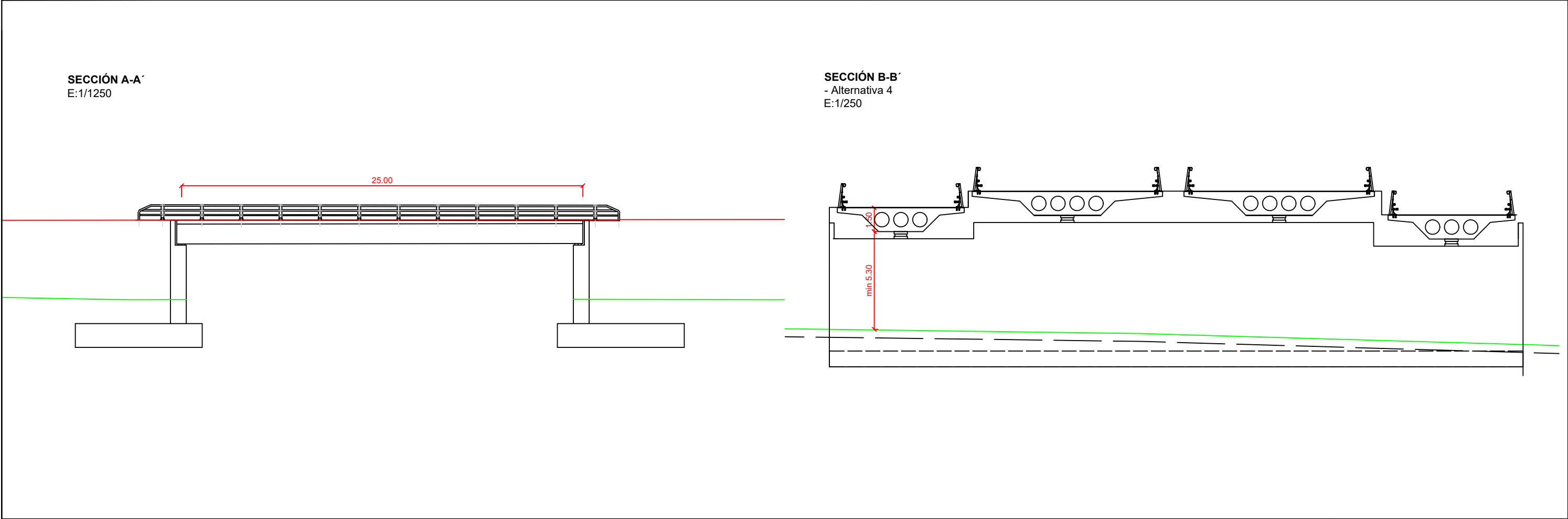
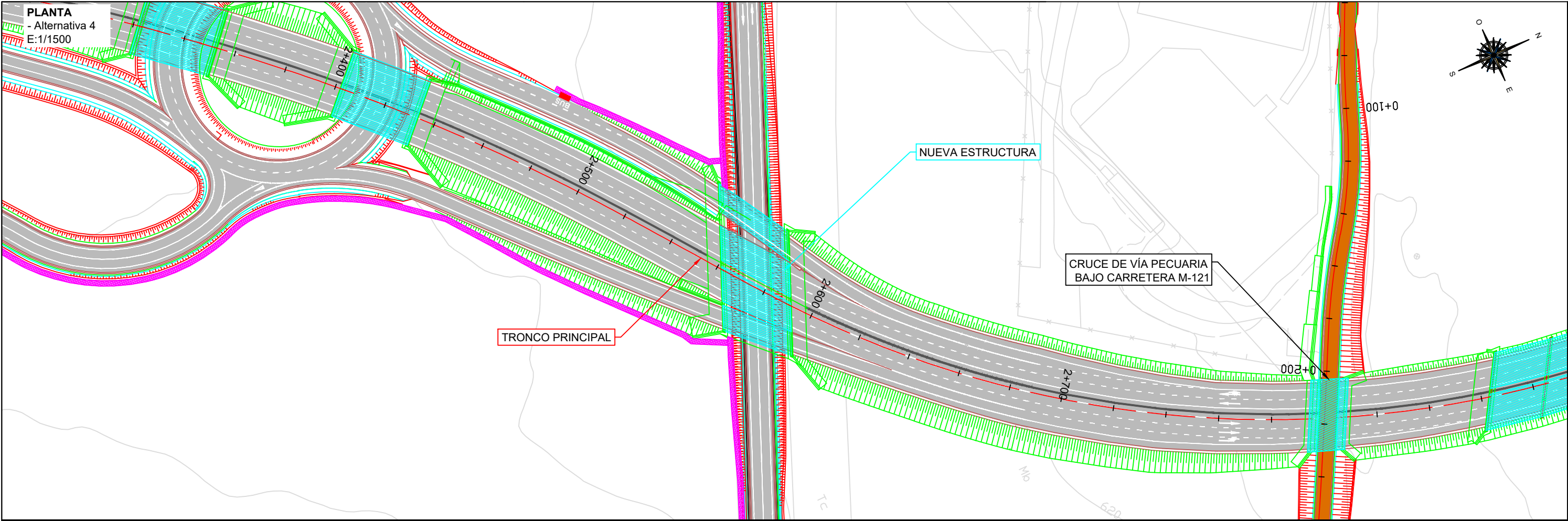




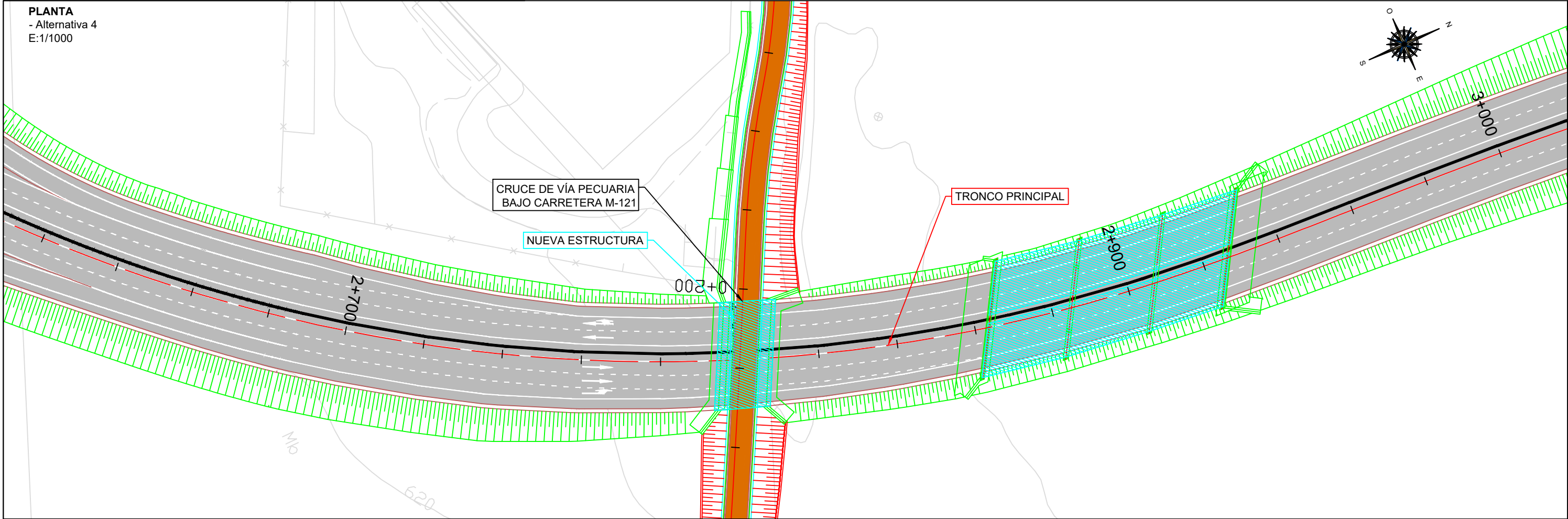




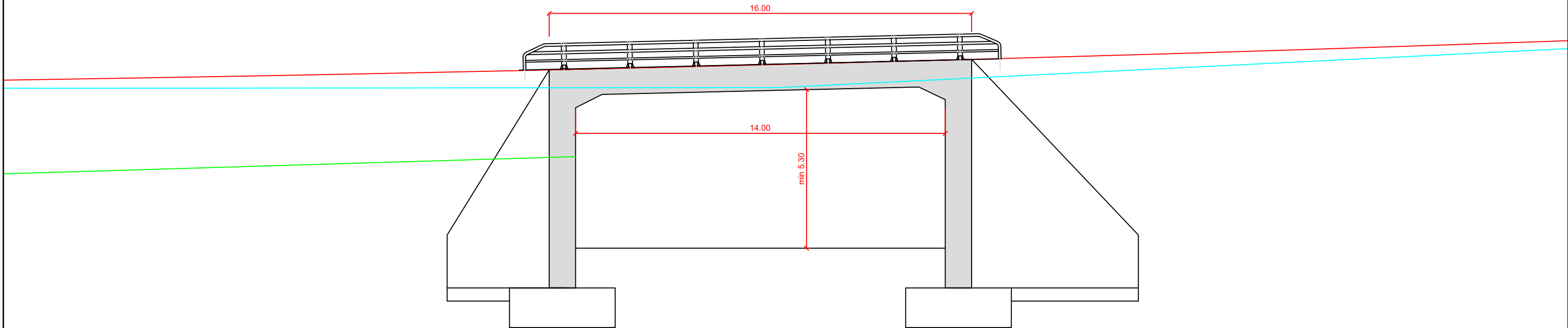


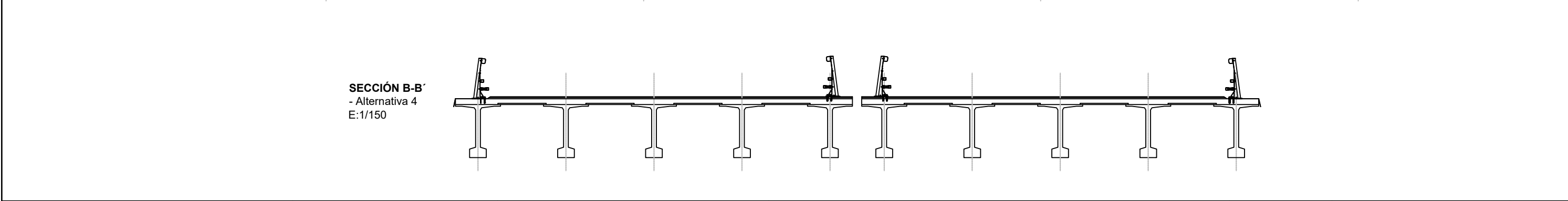
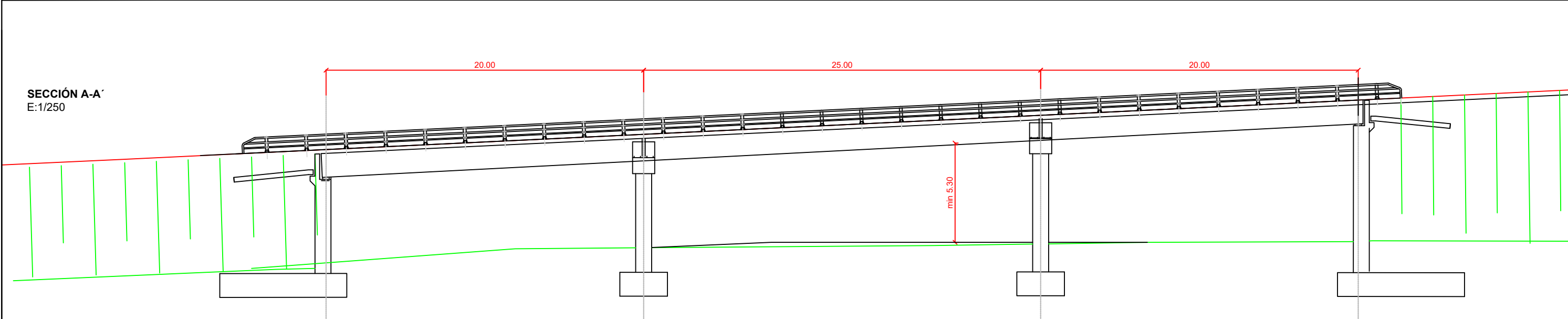
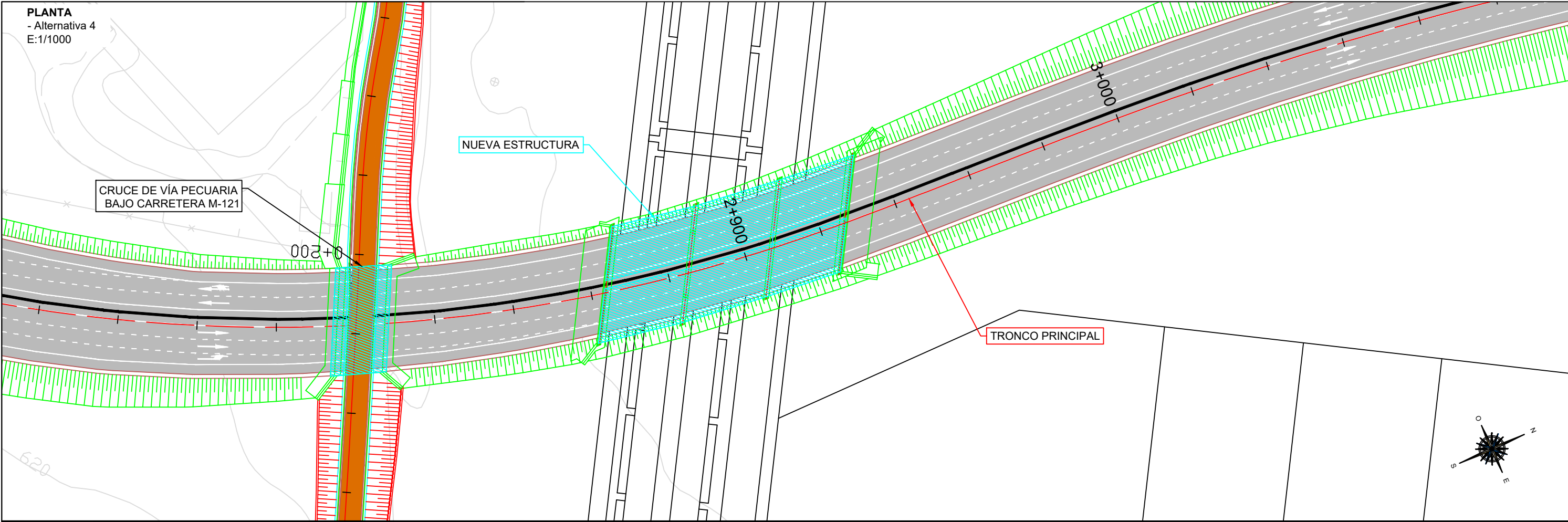


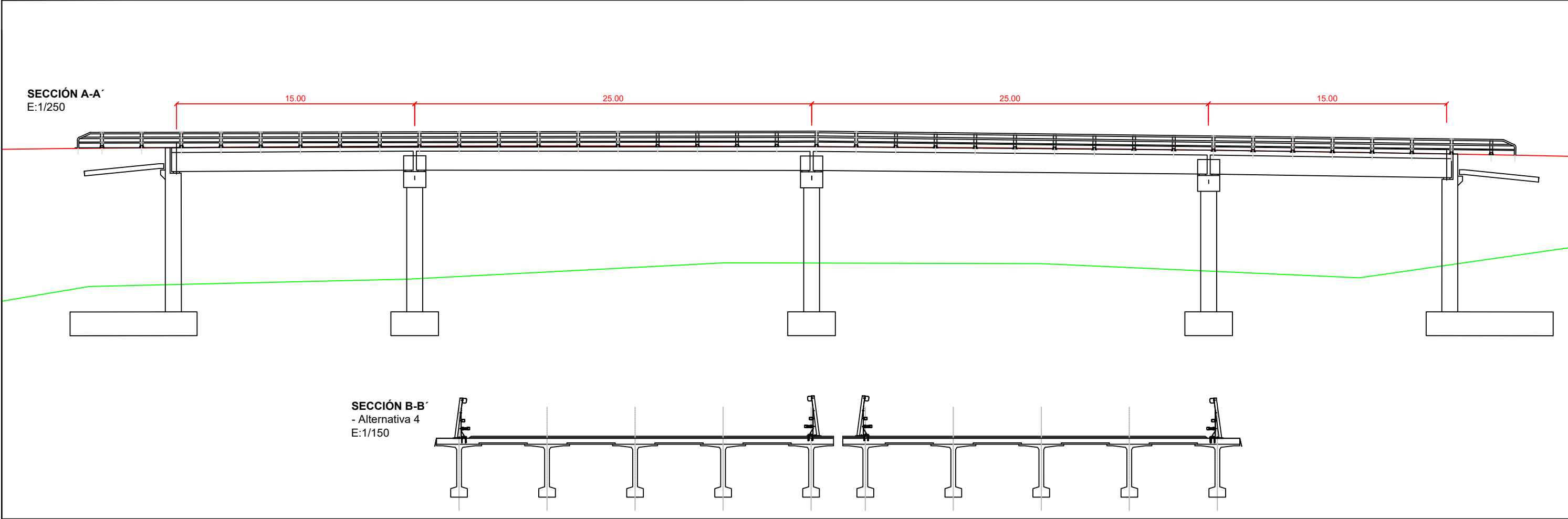
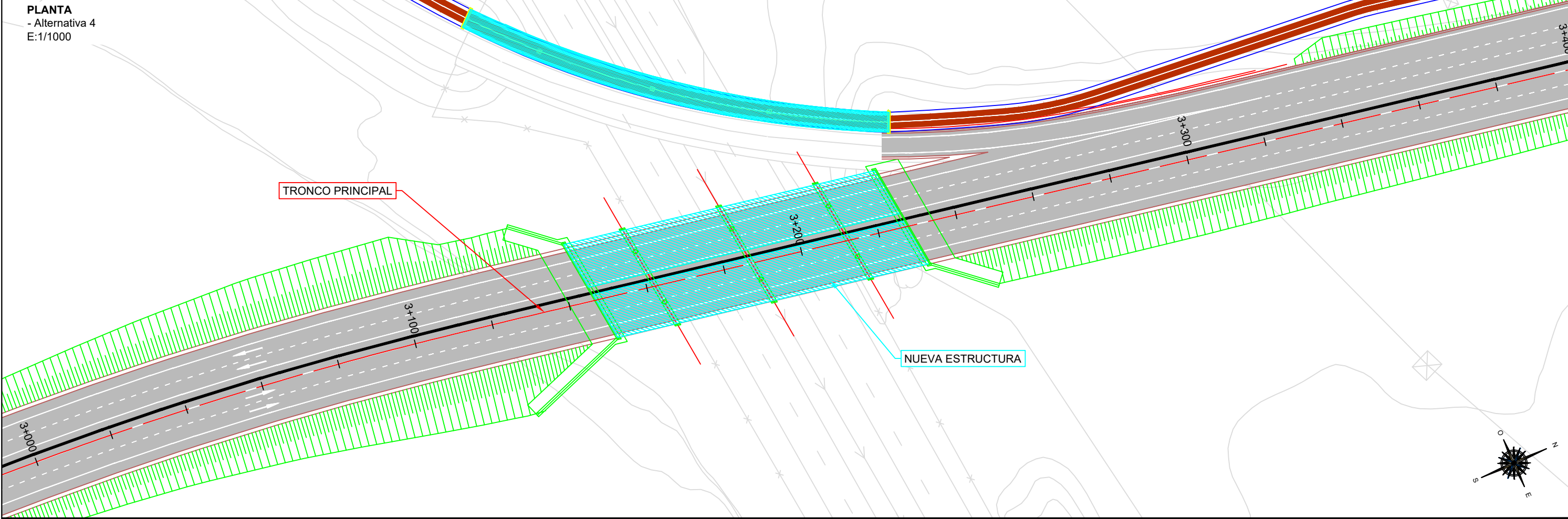




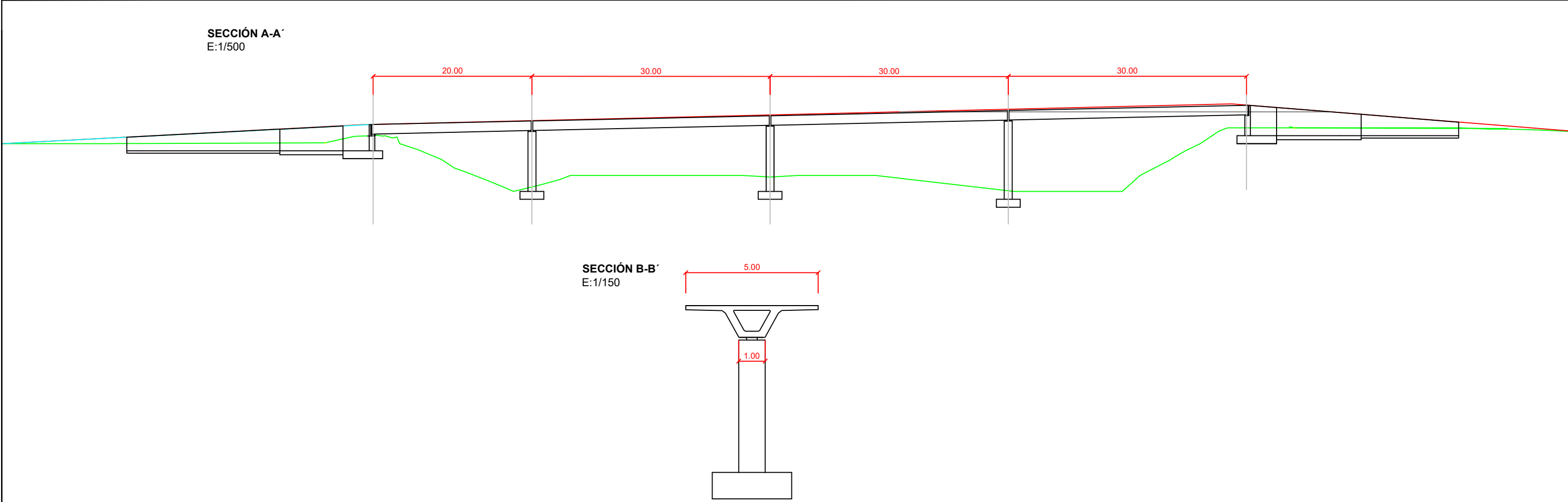
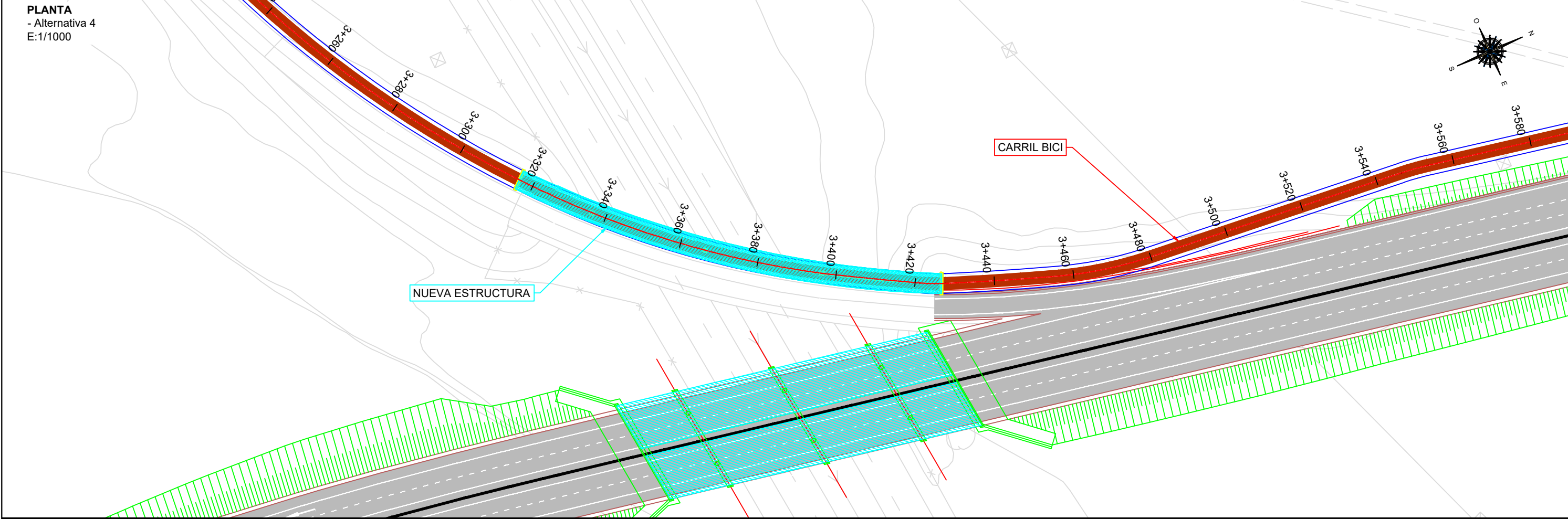
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E:1/150



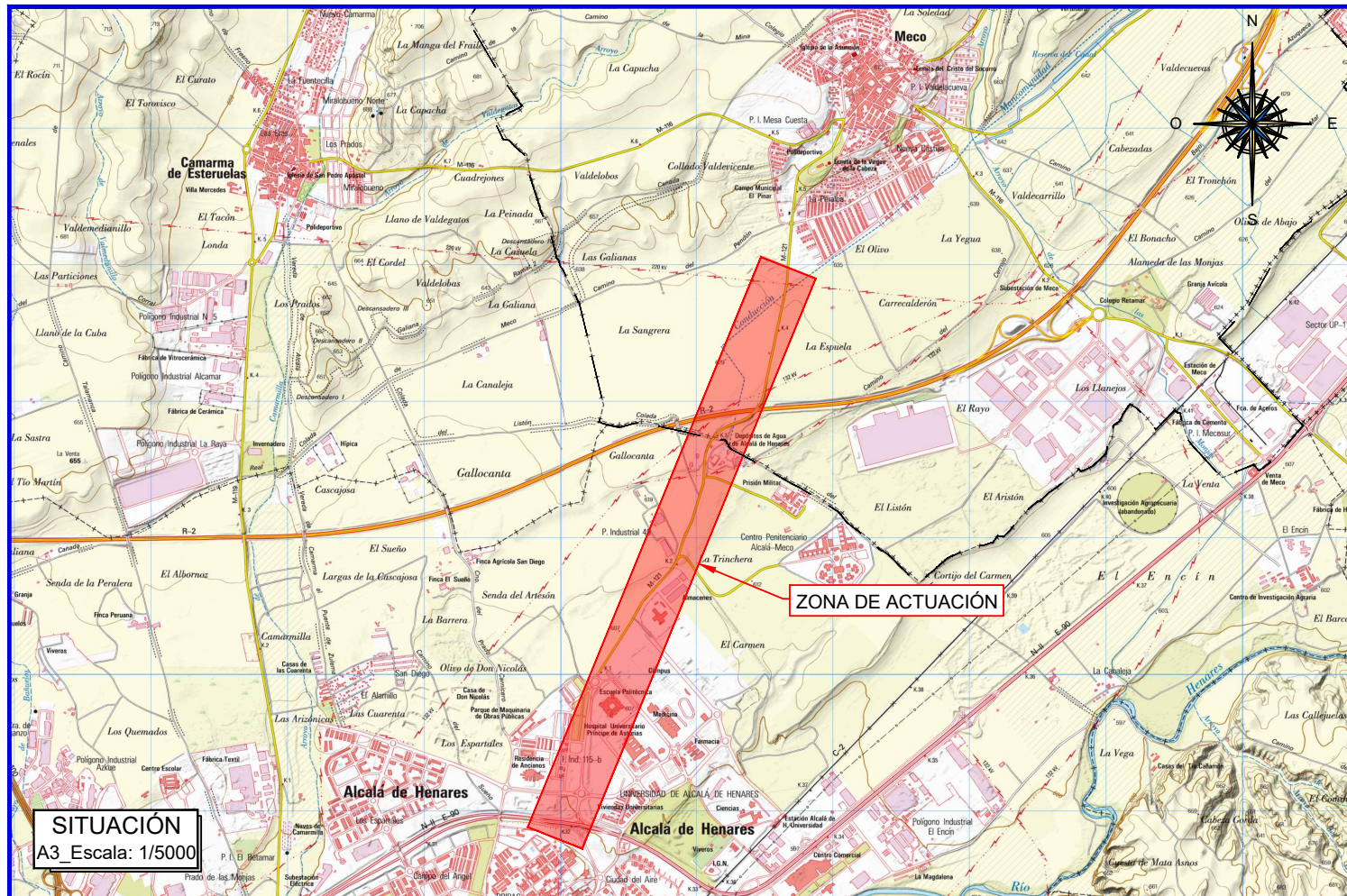




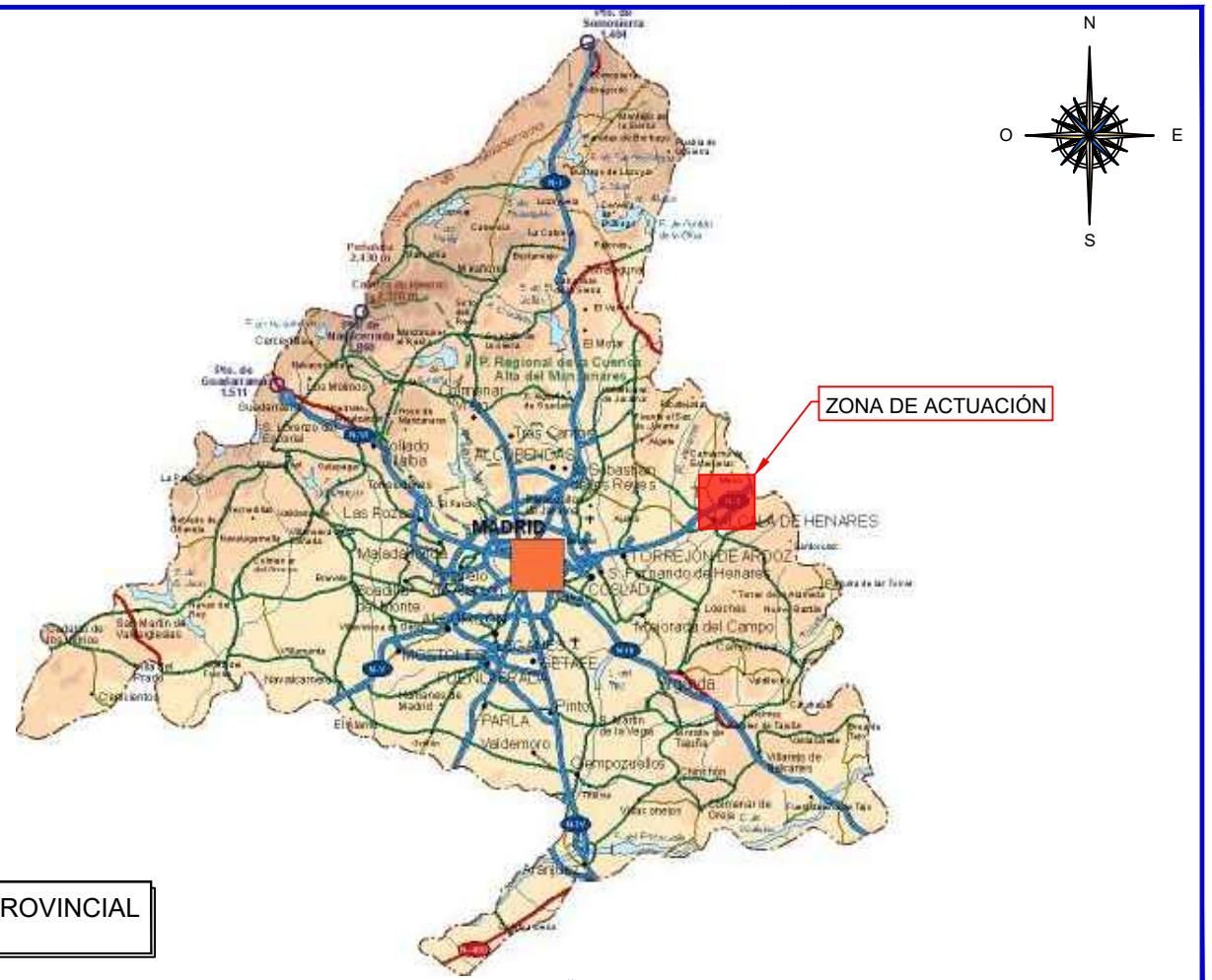








SITUACIÓN  
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LOCALIZACIÓN PROVINCIAL  
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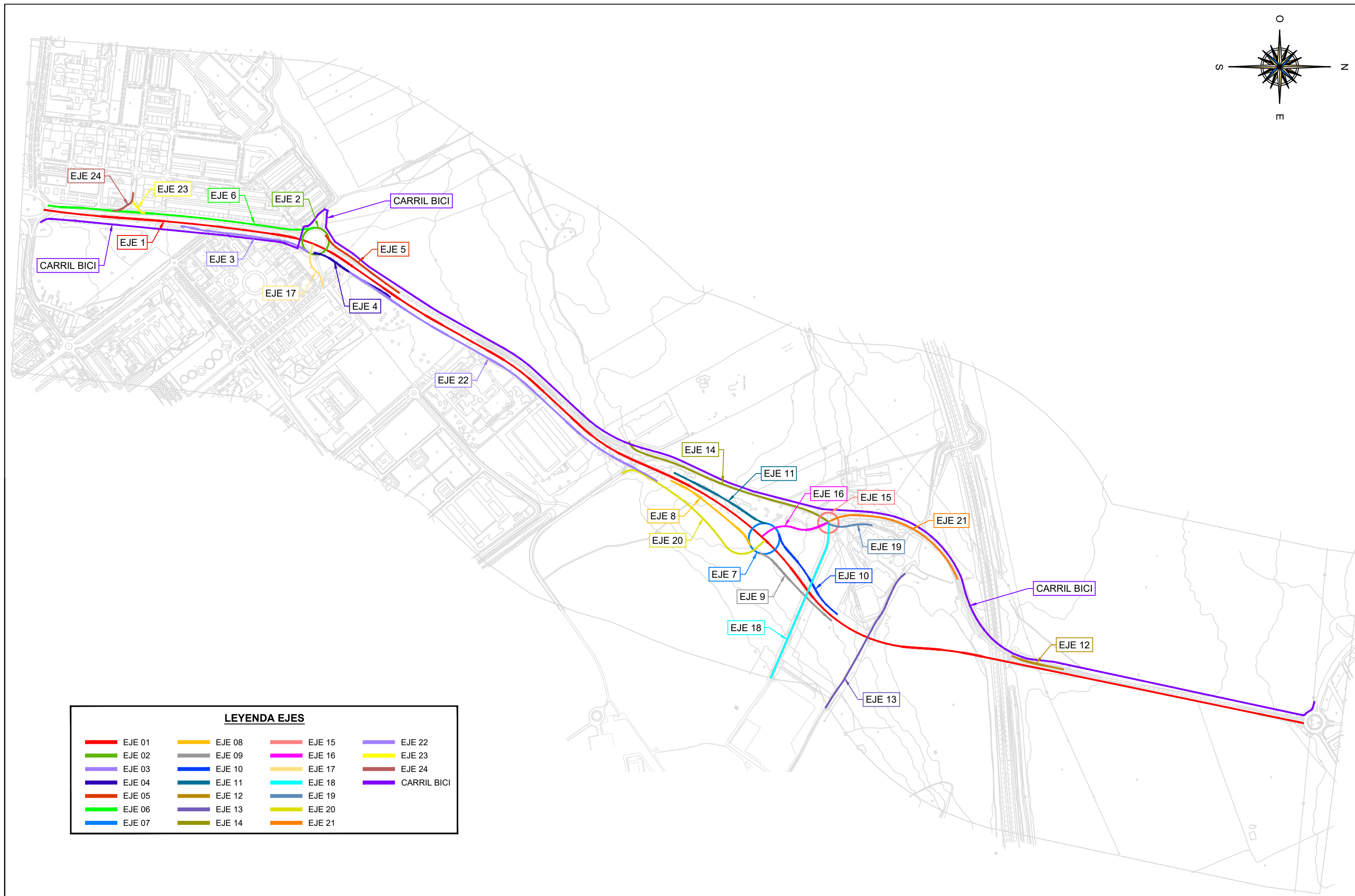
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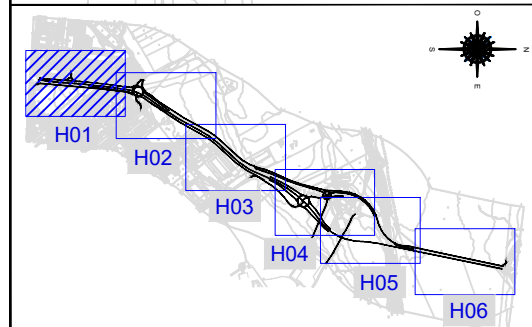
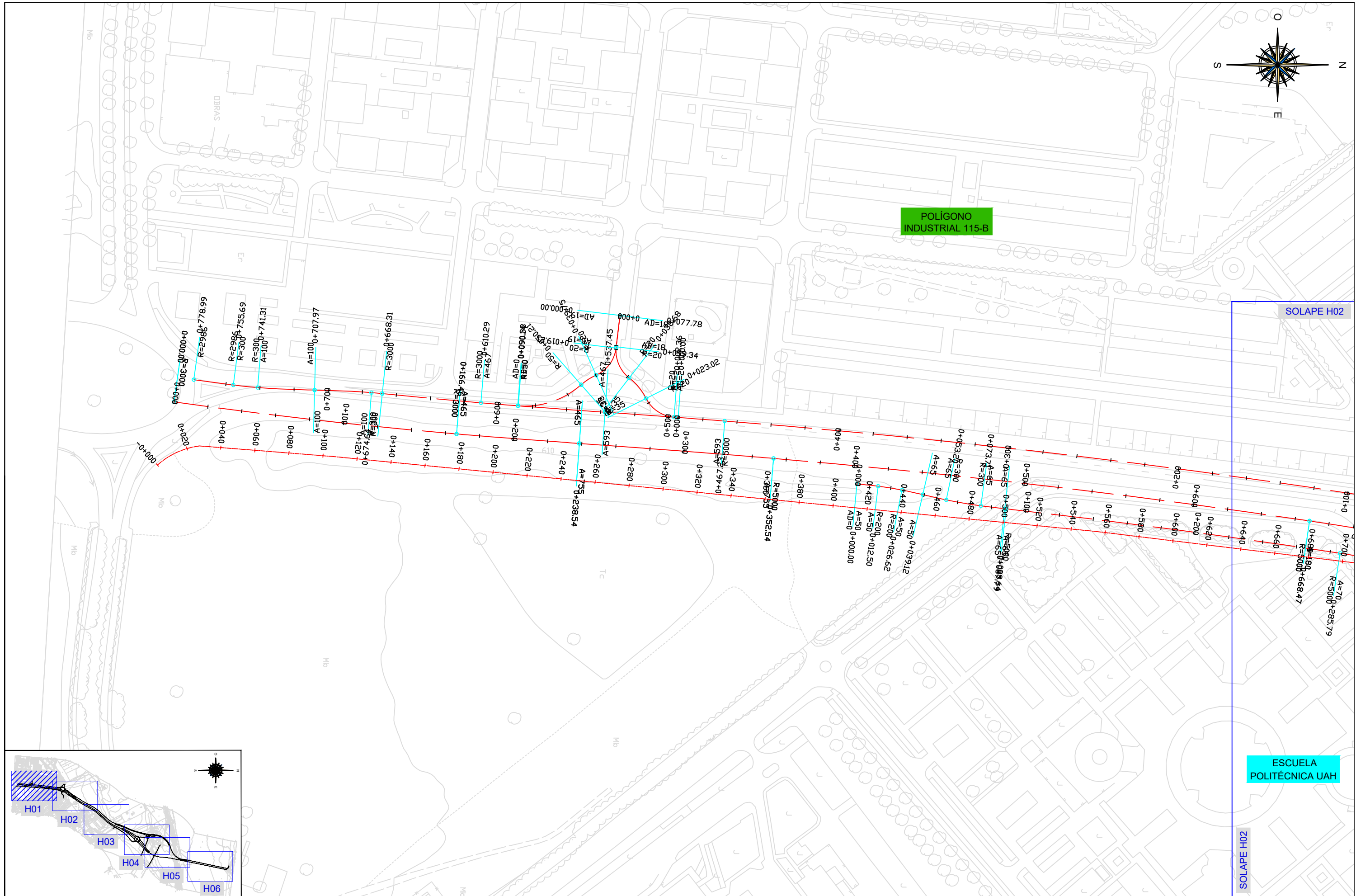
ORGANISMO  Comunidad de Madrid	CONSULTOR  INGEMED INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	AUTOR DEL ESTUDIO  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	ESCALAS 0 5 10 15 20 INDICADAS	TÍTULO DE PROYECTO NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	FECHA JUNIO 2023 FICHERO 12-01.dwg	DESIGNACIÓN SITUACIÓN, LOCALIZACIÓN Y EMLAZAMIENTO	Nº PLANO 12-01 HOJA 1 DE 1
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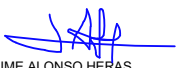
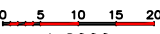




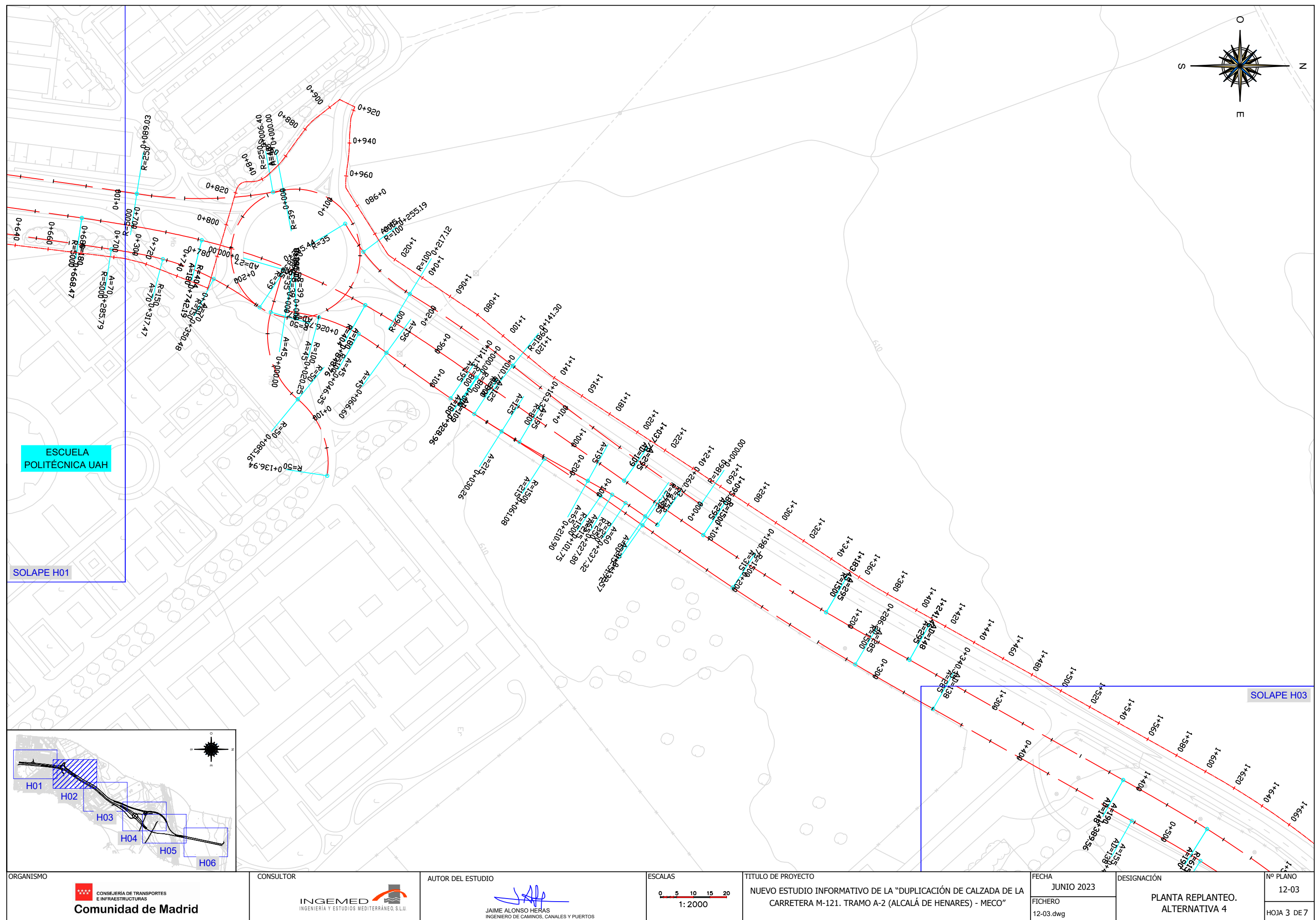






<div>ORGANISMO</div> <div></div>	<div>CONSULTOR</div> <div></div>	<div>AUTOR DEL ESTUDIO</div> <div> JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS</div>	<div>ESCALAS</div> <div> 1: 2000</div>	<div>TÍTULO DE PROYECTO</div> <div>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</div>	<div>FECHA</div> <div>JUNIO 2023</div> <div>FICHERO</div> <div>12-03.dwg</div>	<div>DESIGNACIÓN</div> <div>PLANTA REPLANTEO. ALTERNATIVA 4</div>	<div>Nº PLANO</div> <div>12-03</div> <div>HOJA 2 DE 7</div>
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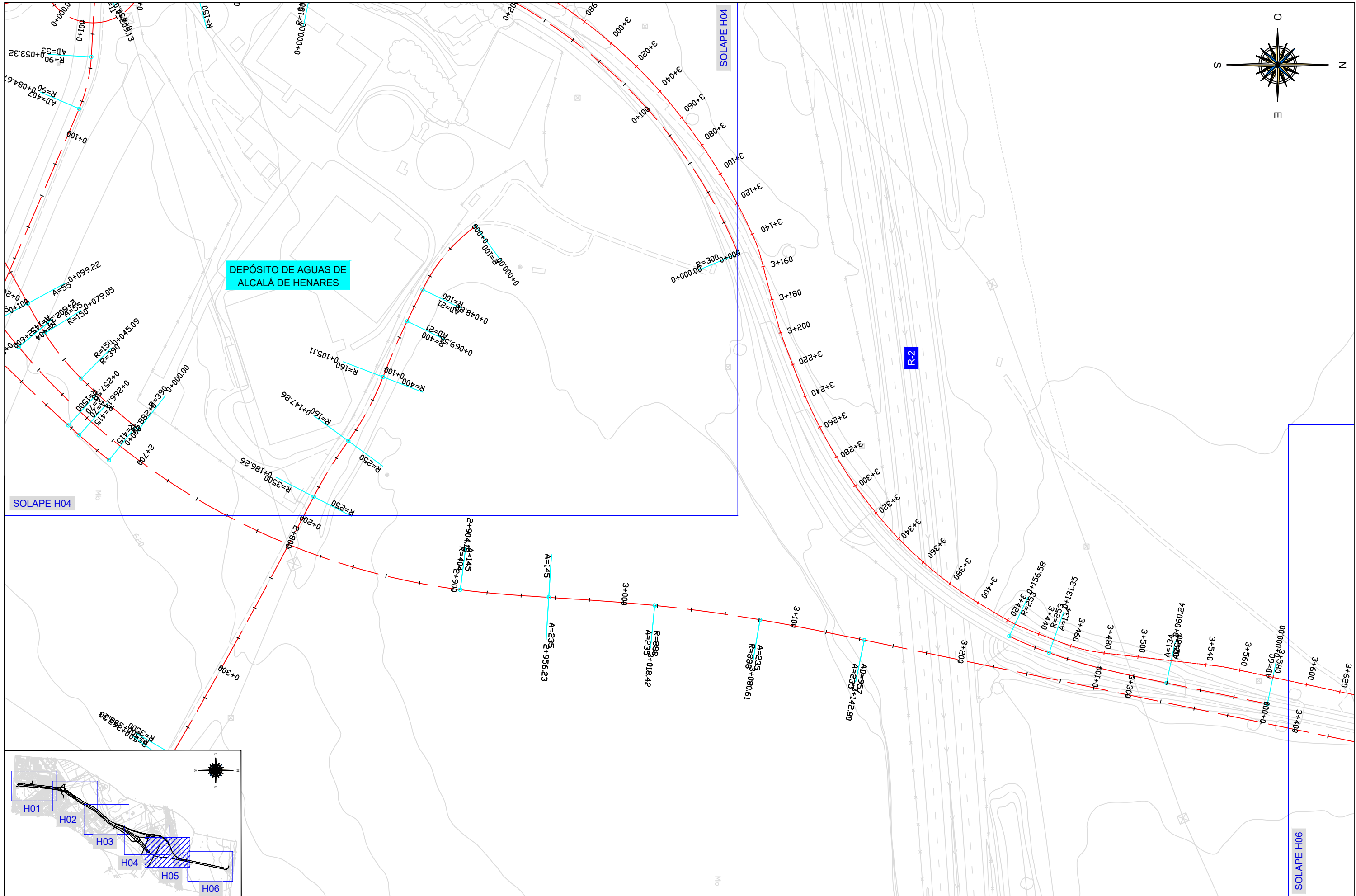






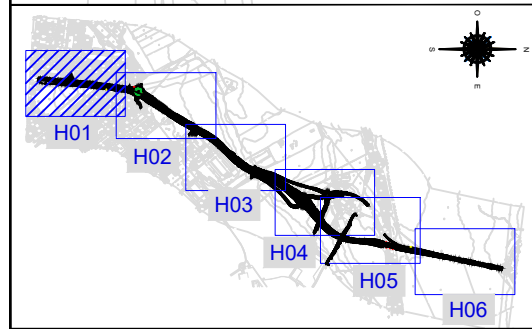
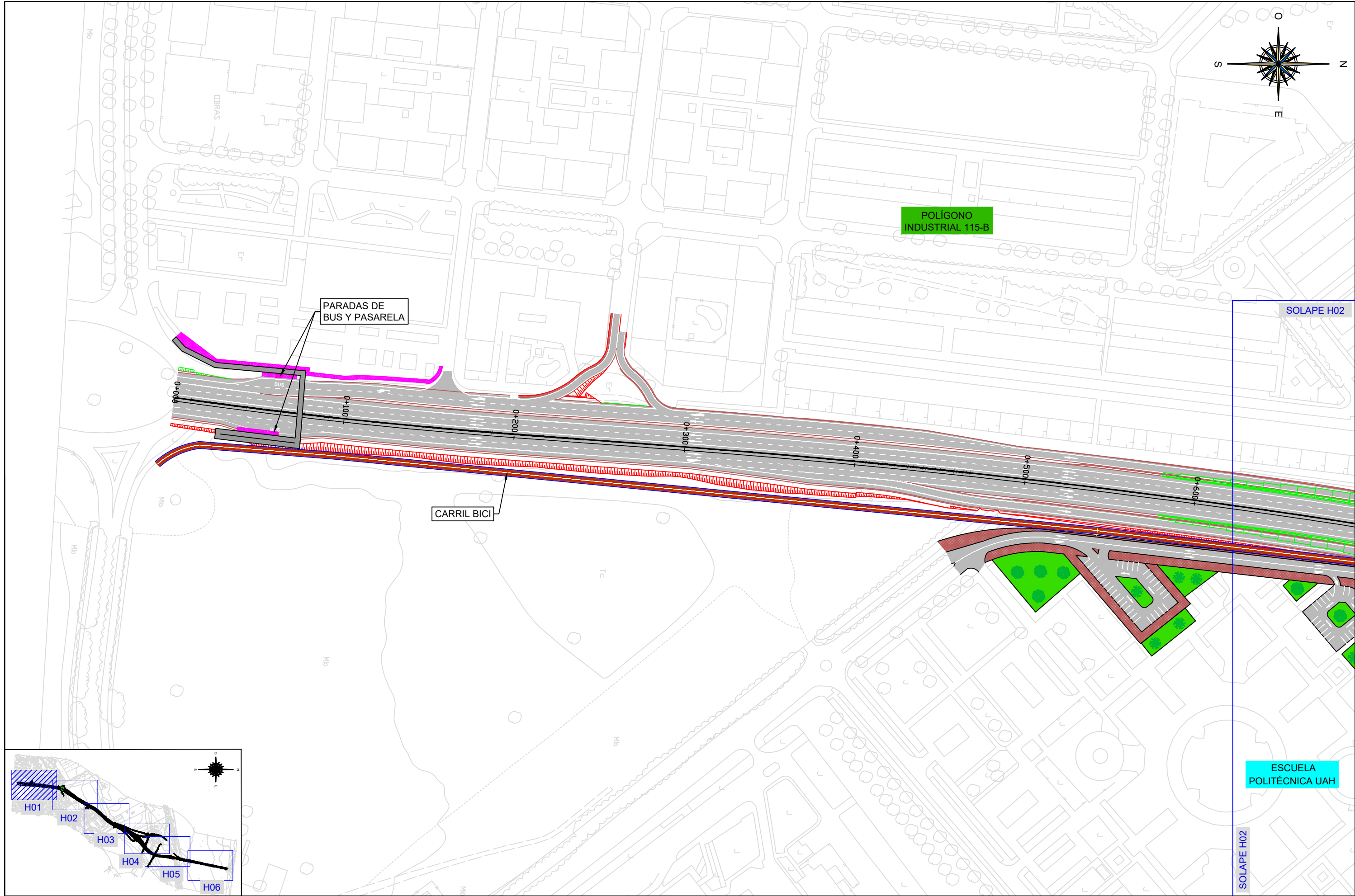





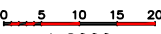


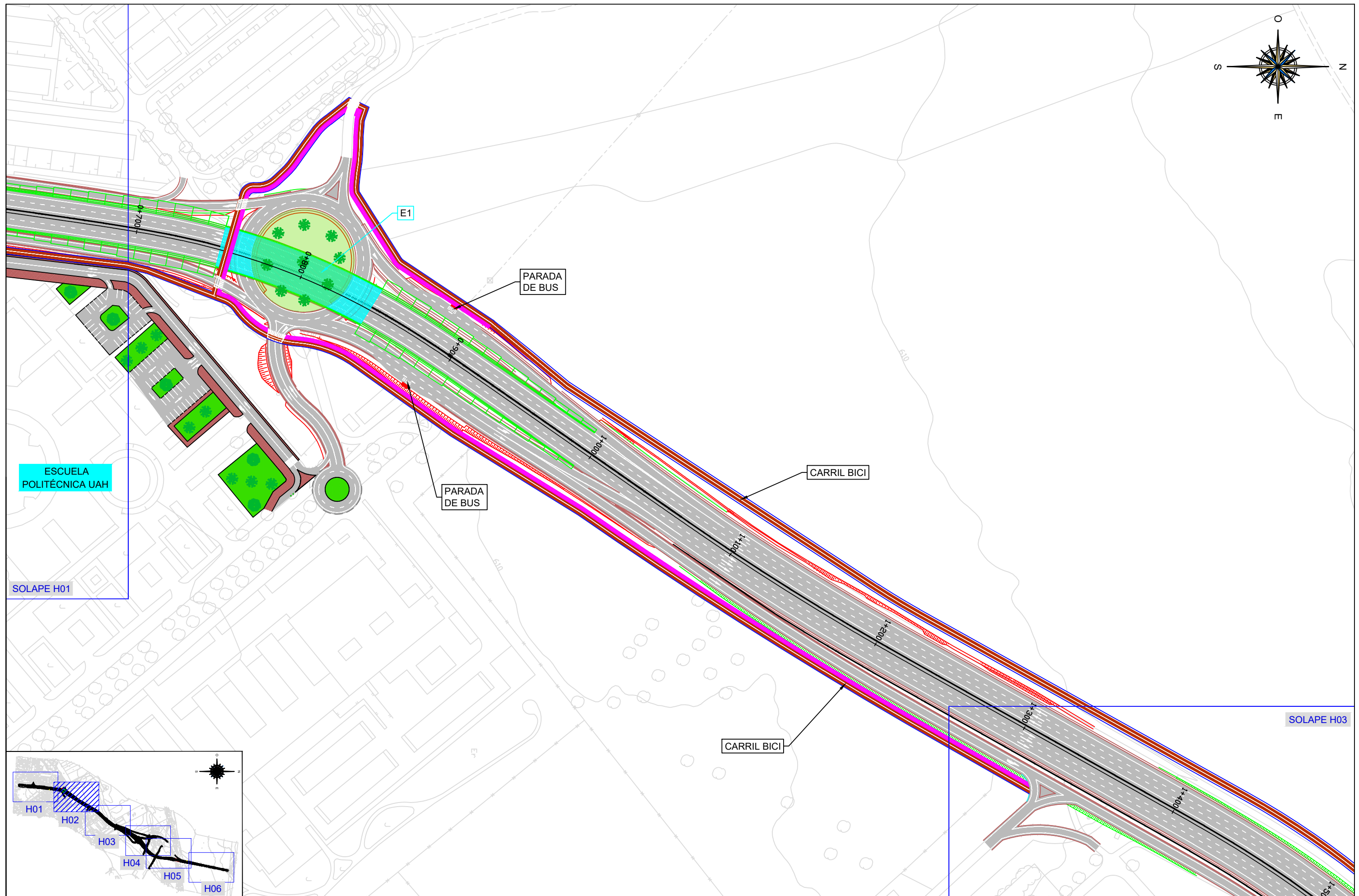




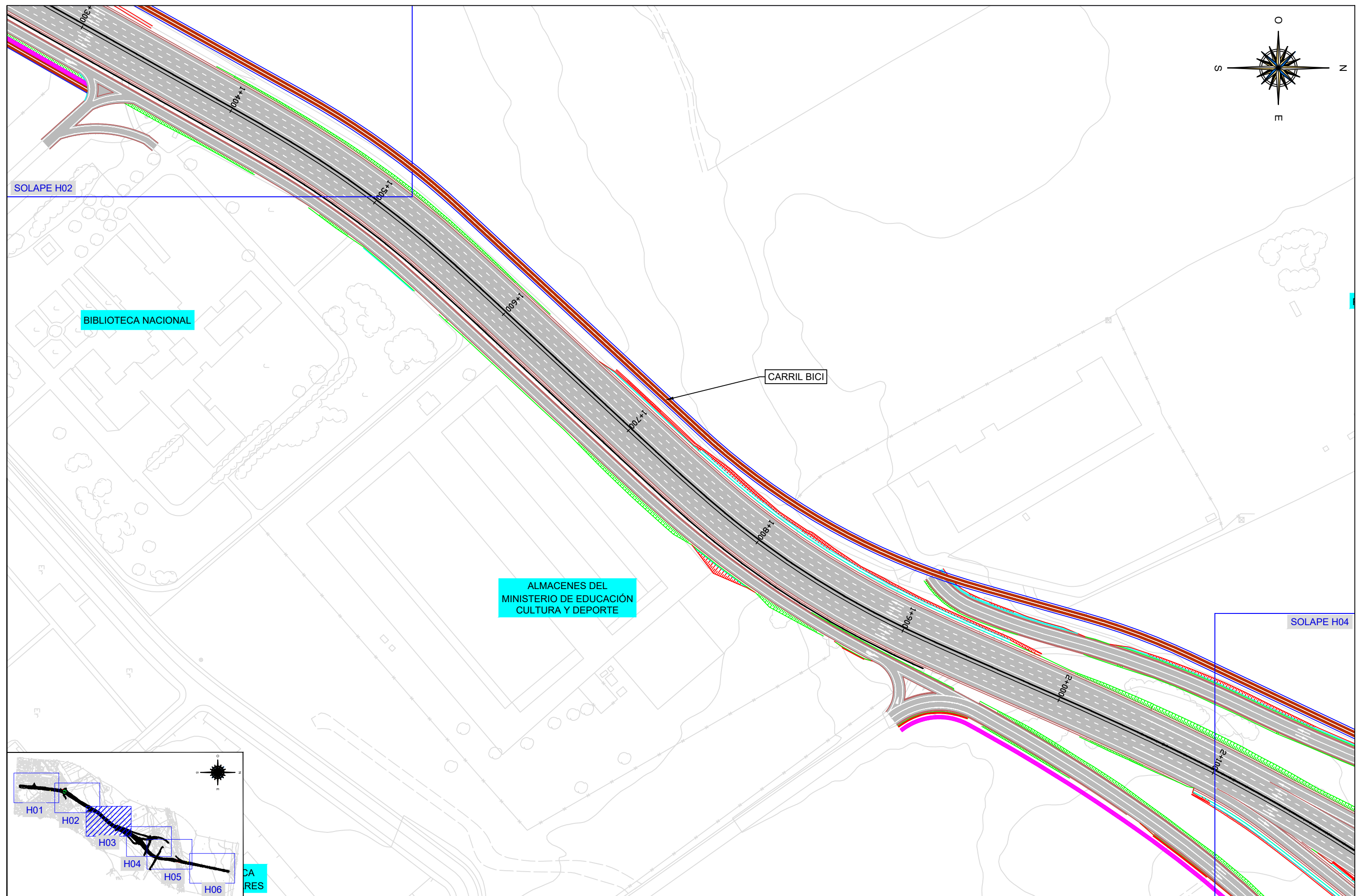




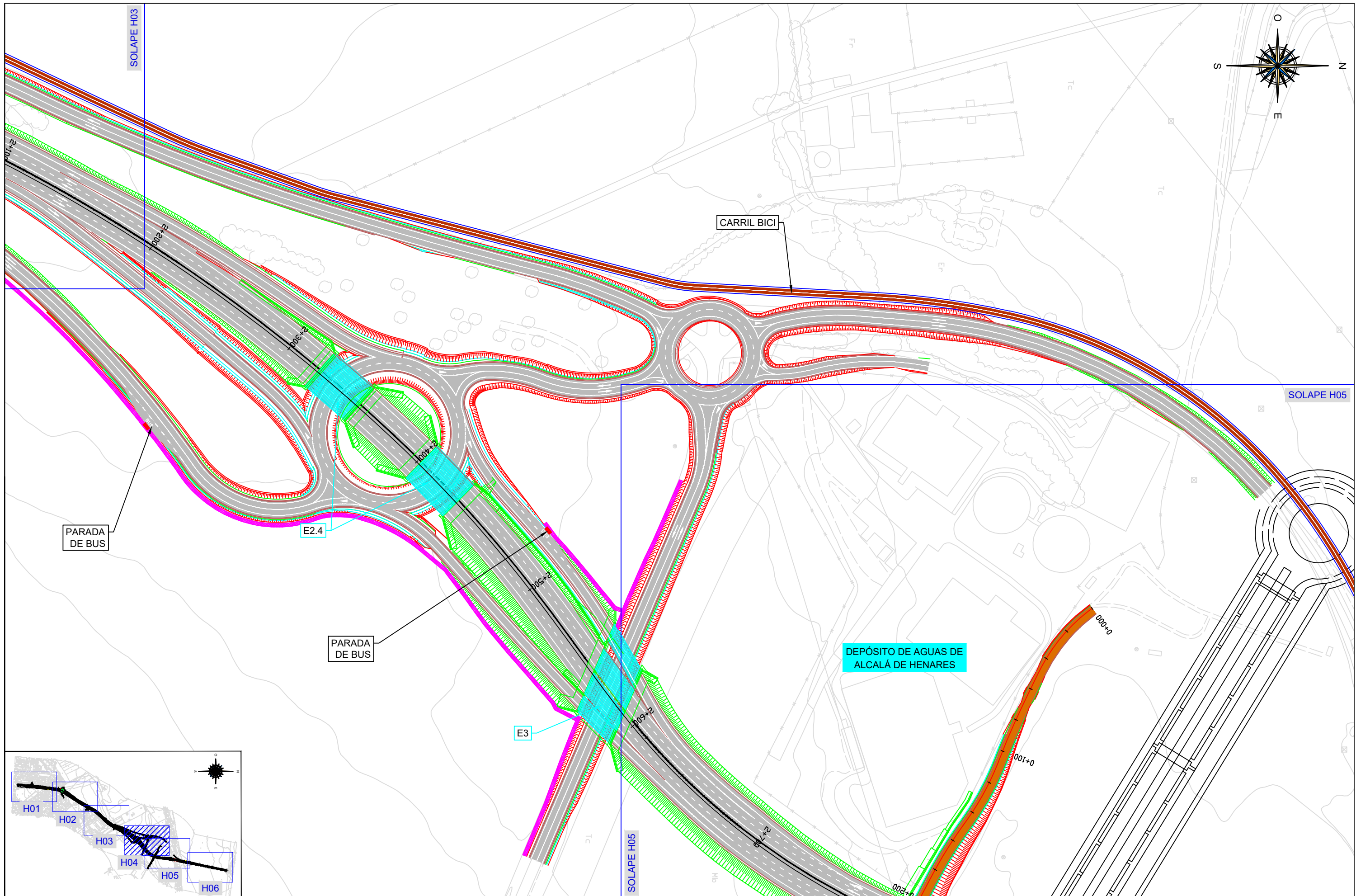
<b>ORGANISMO</b>  <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  0 5 10 15 20 1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 12-04.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ALTERNATIVA 4	<b>Nº PLANO</b> 12-04 <b>HOJA 1 DE 6</b>
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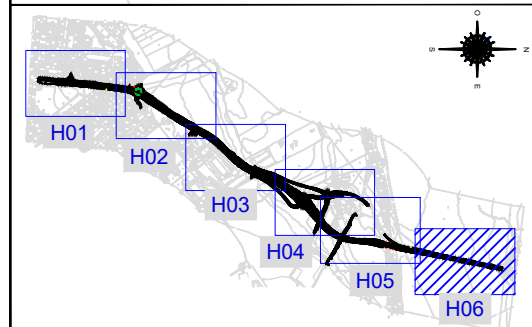
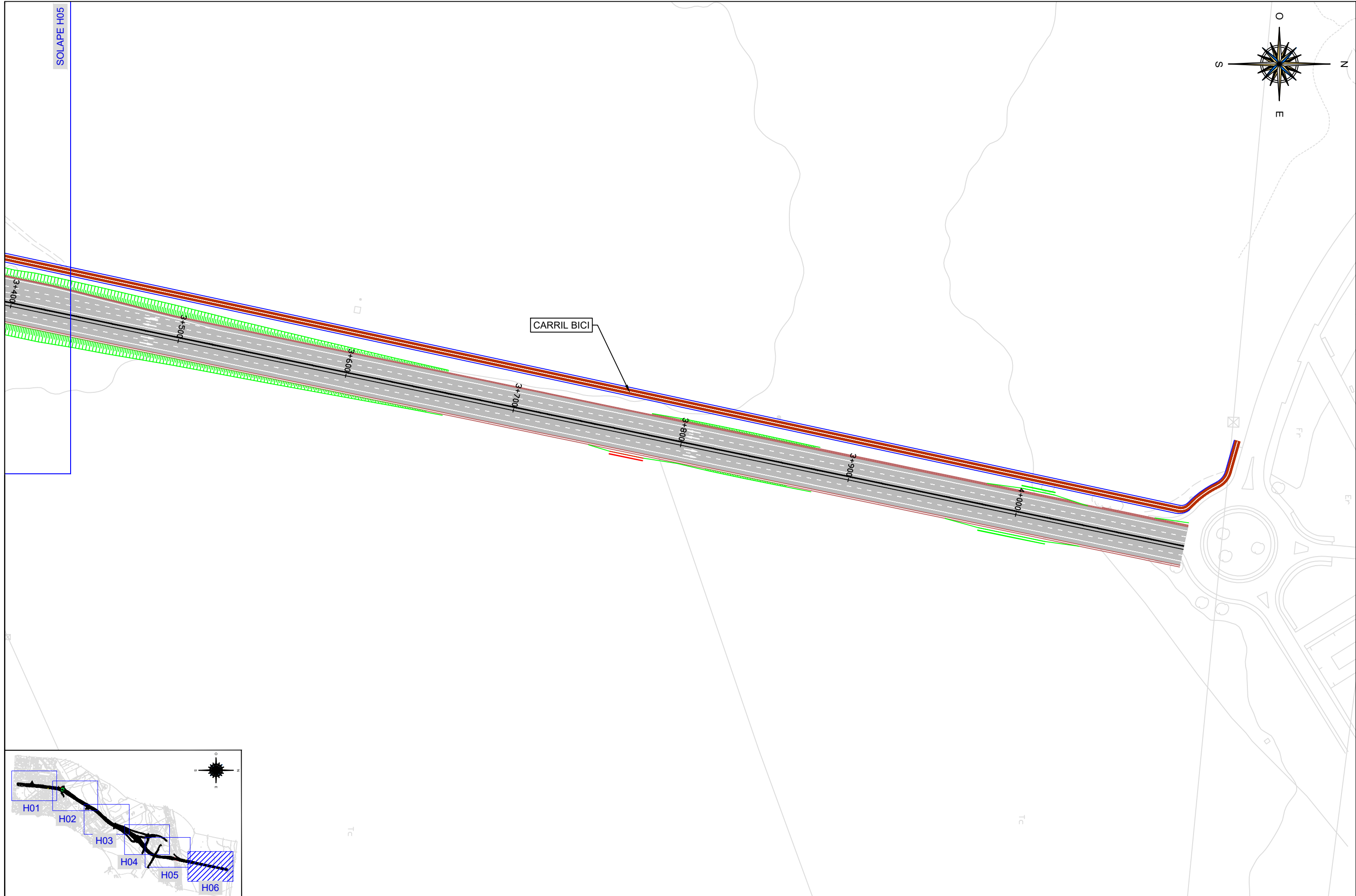





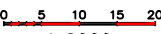




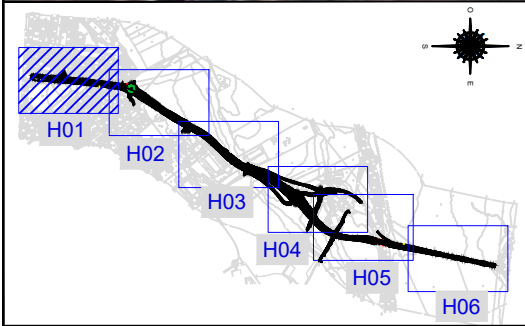





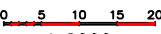




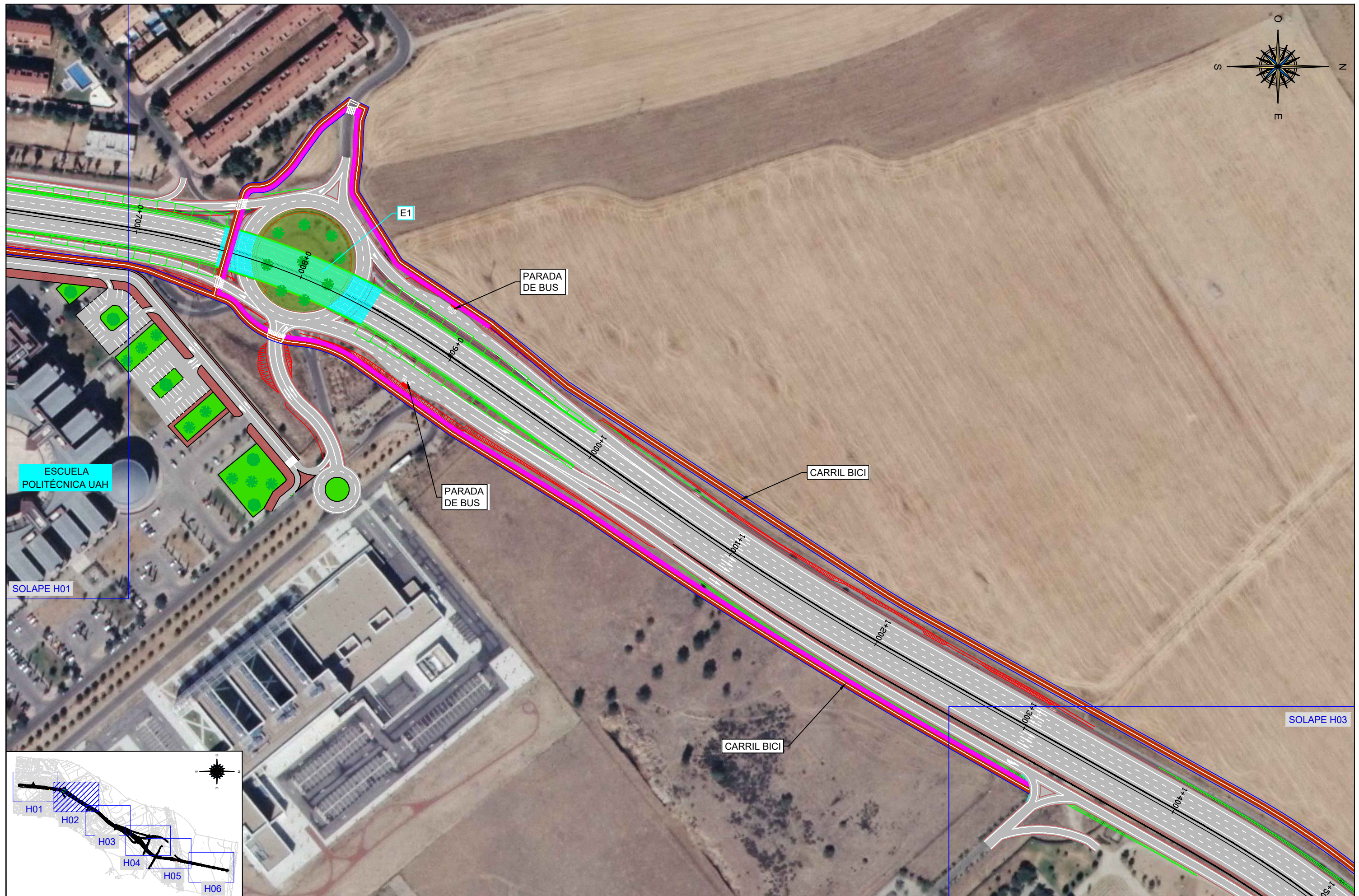
ORGANISMO  Comunidad de Madrid	CONSULTOR  INGEMED INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.	AUTOR DEL ESTUDIO  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	ESCALAS  1: 2000	TÍTULO DE PROYECTO NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	FECHA JUNIO 2023	DESIGNACIÓN PLANTA GENERAL ALTERNATIVA 4	Nº PLANO 12-04 HOJA 6 DE 6
					FICHERO 12-04.dwg		



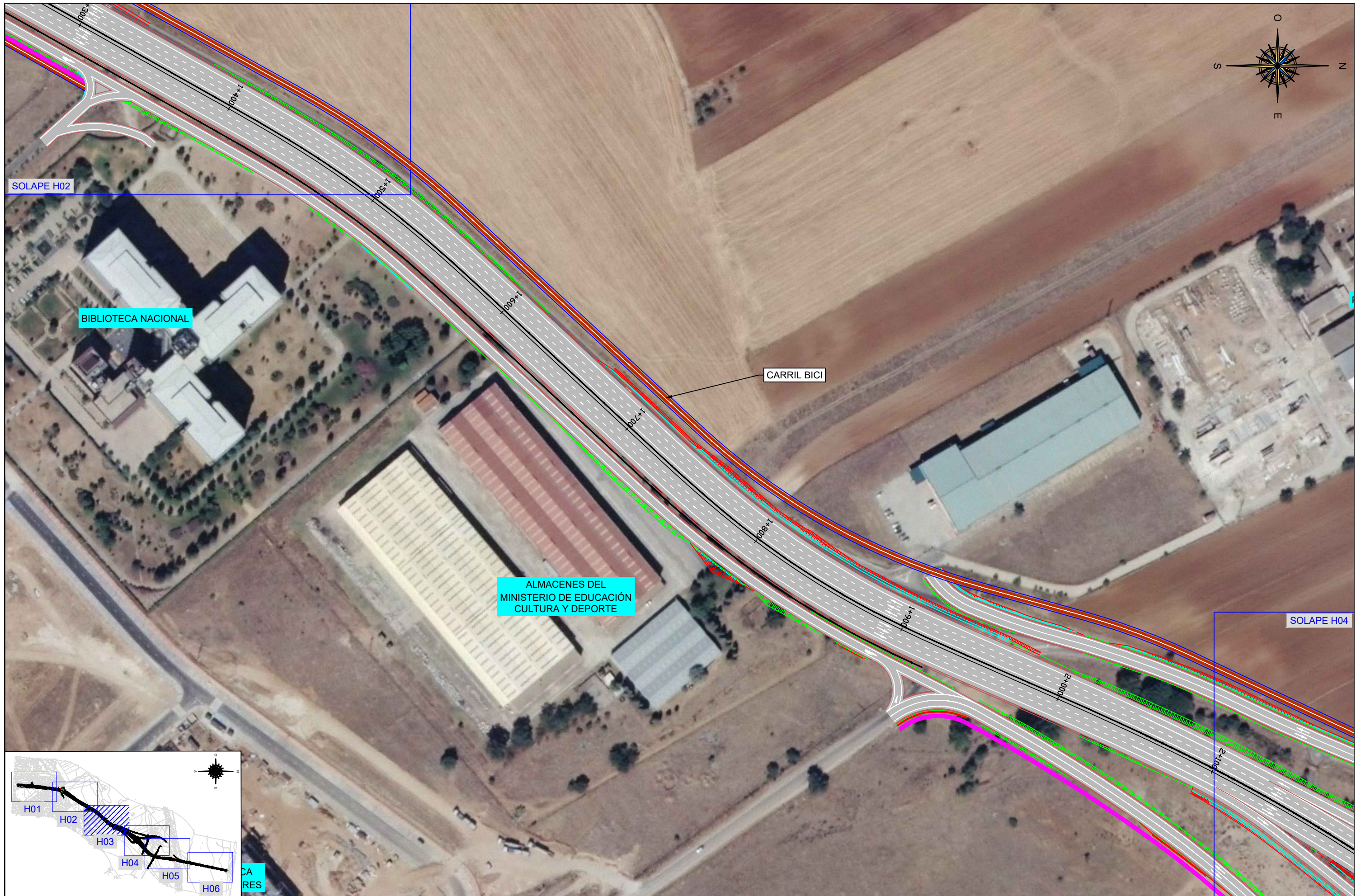


<p>ORGANISMO</p> <p> <b>CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS</b> <b>Comunidad de Madrid</b></p>	<p>CONSULTOR</p> <p> <b>INGEMED</b> INGENIERÍA Y ESTUDIOS MEDITERRÁNEO, S.L.U.</p>	<p>AUTOR DEL ESTUDIO</p> <p> <b>JAIME ALONSO HERAS</b> INGENIERO DE CAMINOS, CANALES Y PUERTOS</p>	<p>ESCALAS</p> <p> 1: 2000</p>	<p>TÍTULO DE PROYECTO</p> <p>NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"</p>	<p>FECHA</p> <p>JUNIO 2023</p> <p>FICHERO</p> <p>12-05.dwg</p>	<p>DESIGNACIÓN</p> <p>PLANTA GENERAL ORTOFOTO ALTERNATIVA 4</p>	<p>Nº PLANO</p> <p>12-05</p> <p>HOJA 1 DE 6</p>
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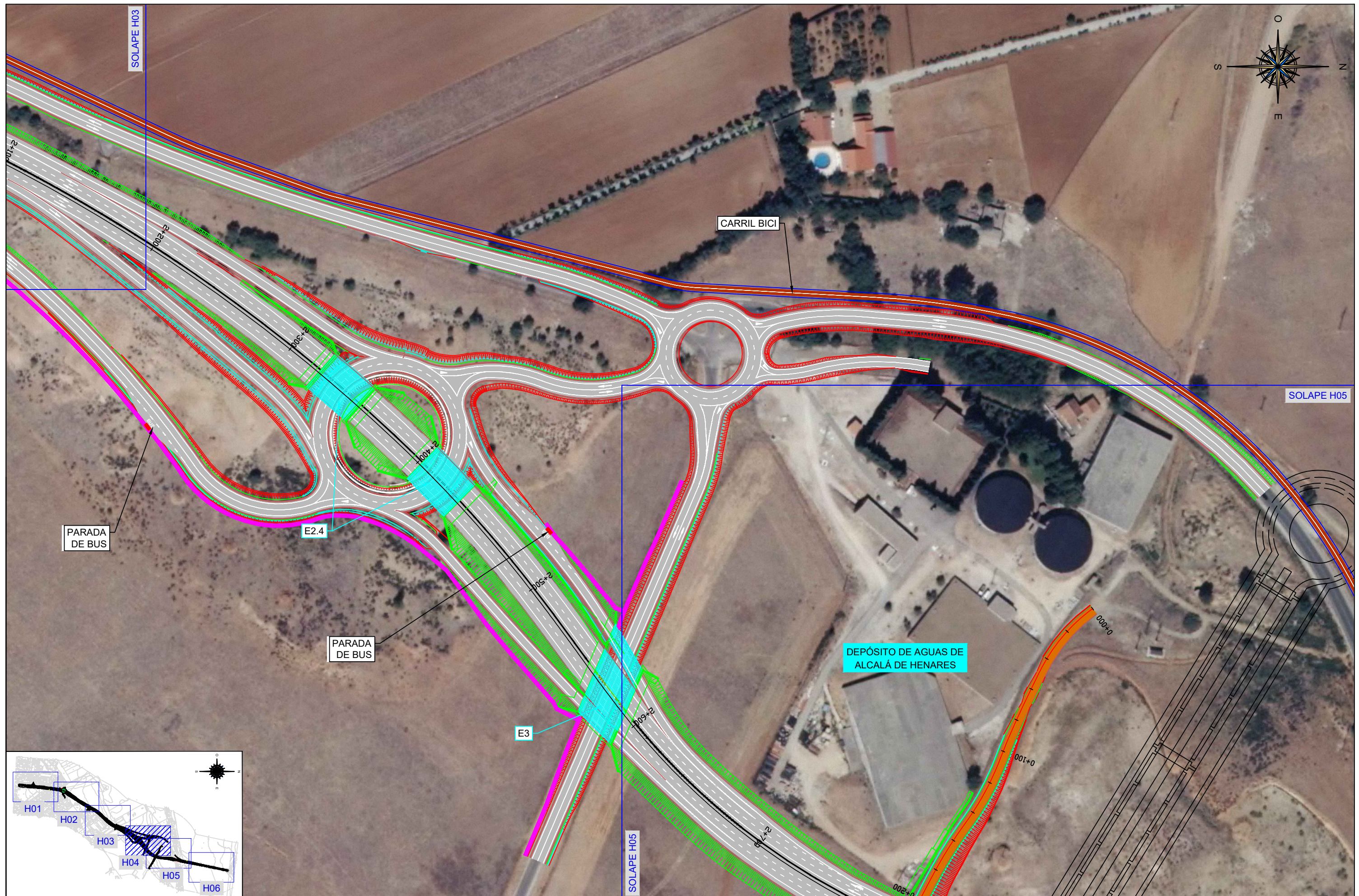




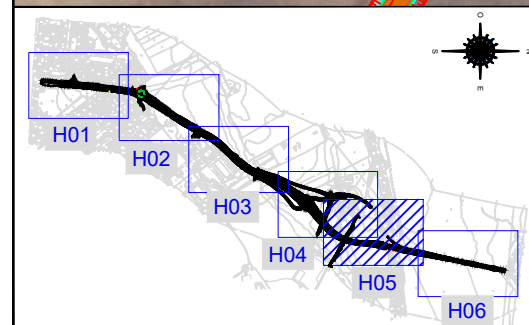
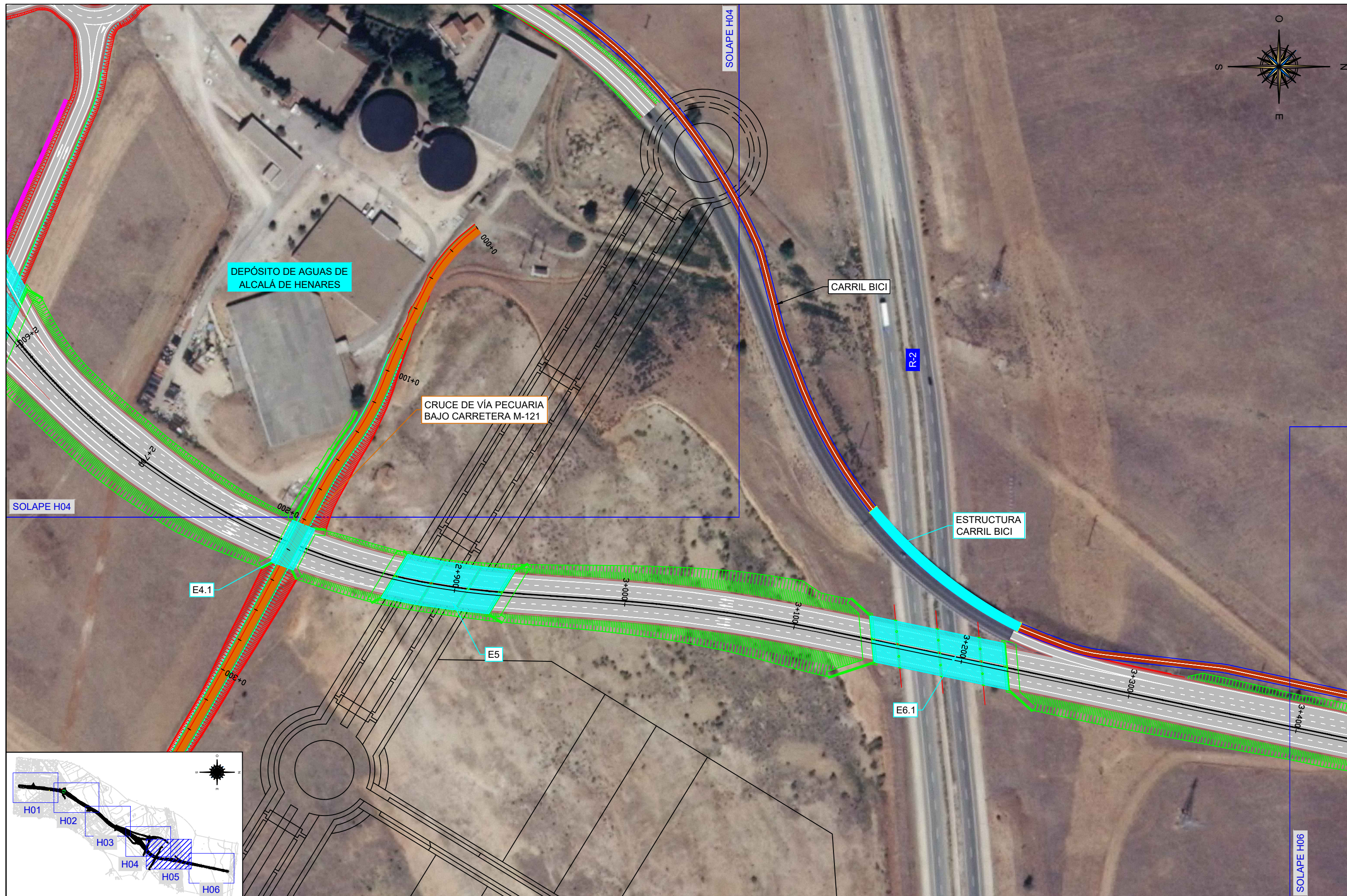





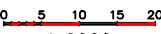









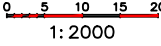




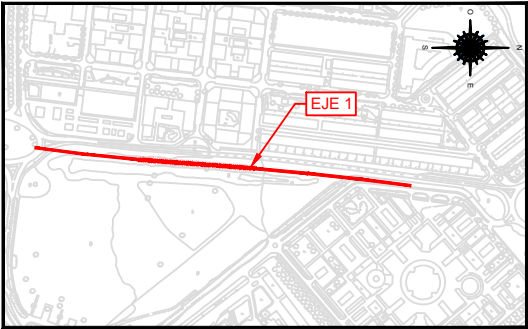
<b>ORGANISMO</b>  CONSEJERÍA DE TRANSPORTES E INFRAESTRUCTURAS <b>Comunidad de Madrid</b>	<b>CONSULTOR</b>  INGEMED INGENIERÍA Y ESTUDIOS MEDITERRANEO, S.L.U.	<b>AUTOR DEL ESTUDIO</b>  JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	<b>ESCALAS</b>  1: 2000	<b>TÍTULO DE PROYECTO</b> NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	<b>FECHA</b> JUNIO 2023 <b>FICHERO</b> 12-05.dwg	<b>DESIGNACIÓN</b> PLANTA GENERAL ORTOFOTO ALTERNATIVA 4	<b>Nº PLANO</b> 12-05 <b>HOJA 5 DE 6</b>
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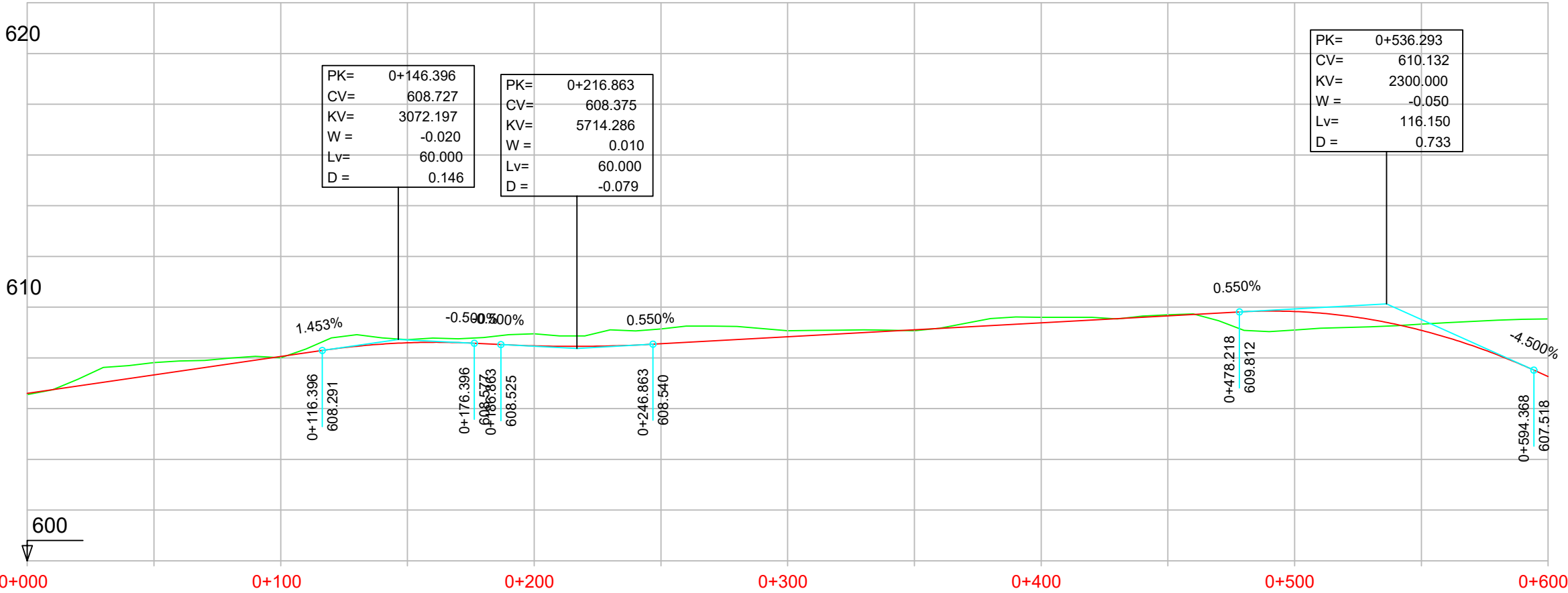
ORGANISMO		CONSULTOR		AUTOR DEL ESTUDIO	 JAIME ALONSO HERAS INGENIERO DE CAMINOS, CANALES Y PUERTOS	ESCALAS	 1: 2000	TITULO DE PROYECTO	NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	FECHA	JUNIO 2023	DESIGNACIÓN	PLANTA GENERAL ORTOFOTO ALTERNATIVA 4	Nº PLANO	12-05
										FICHERO	12-05.dwg			HOJA 6 DE 6	





EJE 1  
PK 0+000 - 0+600

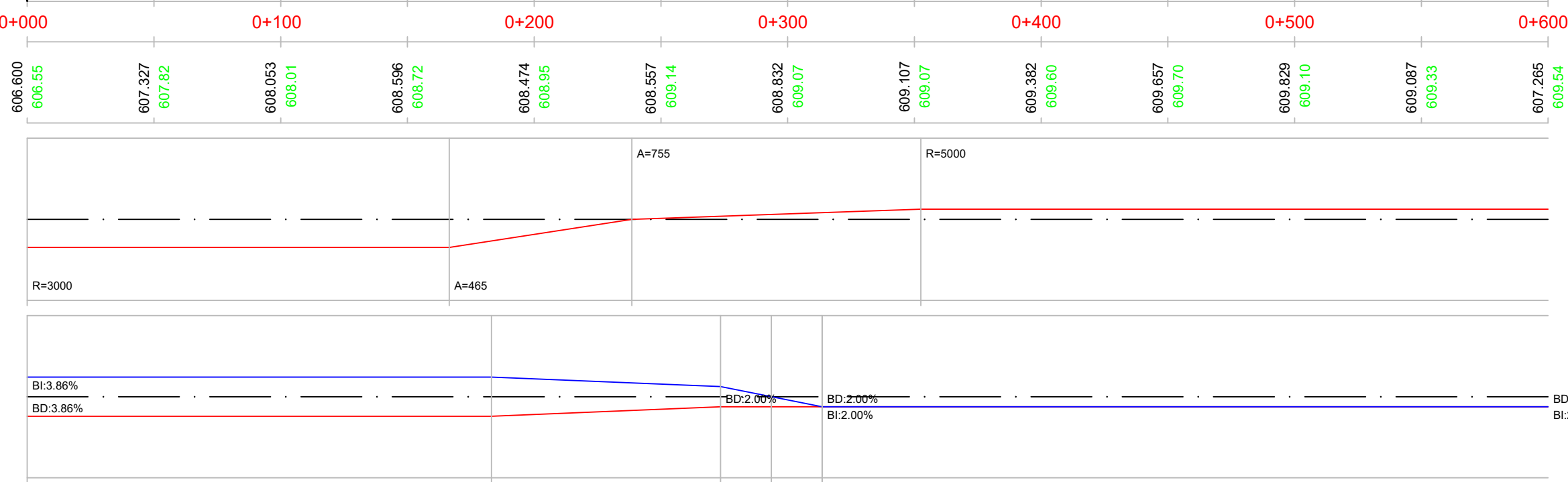
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

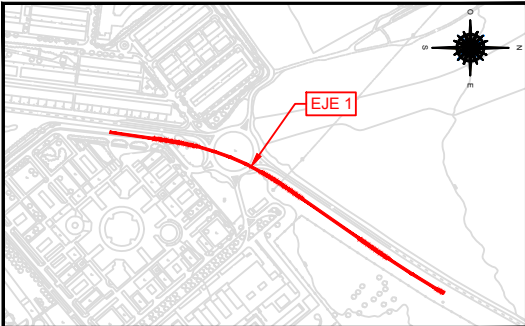


P.K.		
COTAS	RASANTE	TERRENO

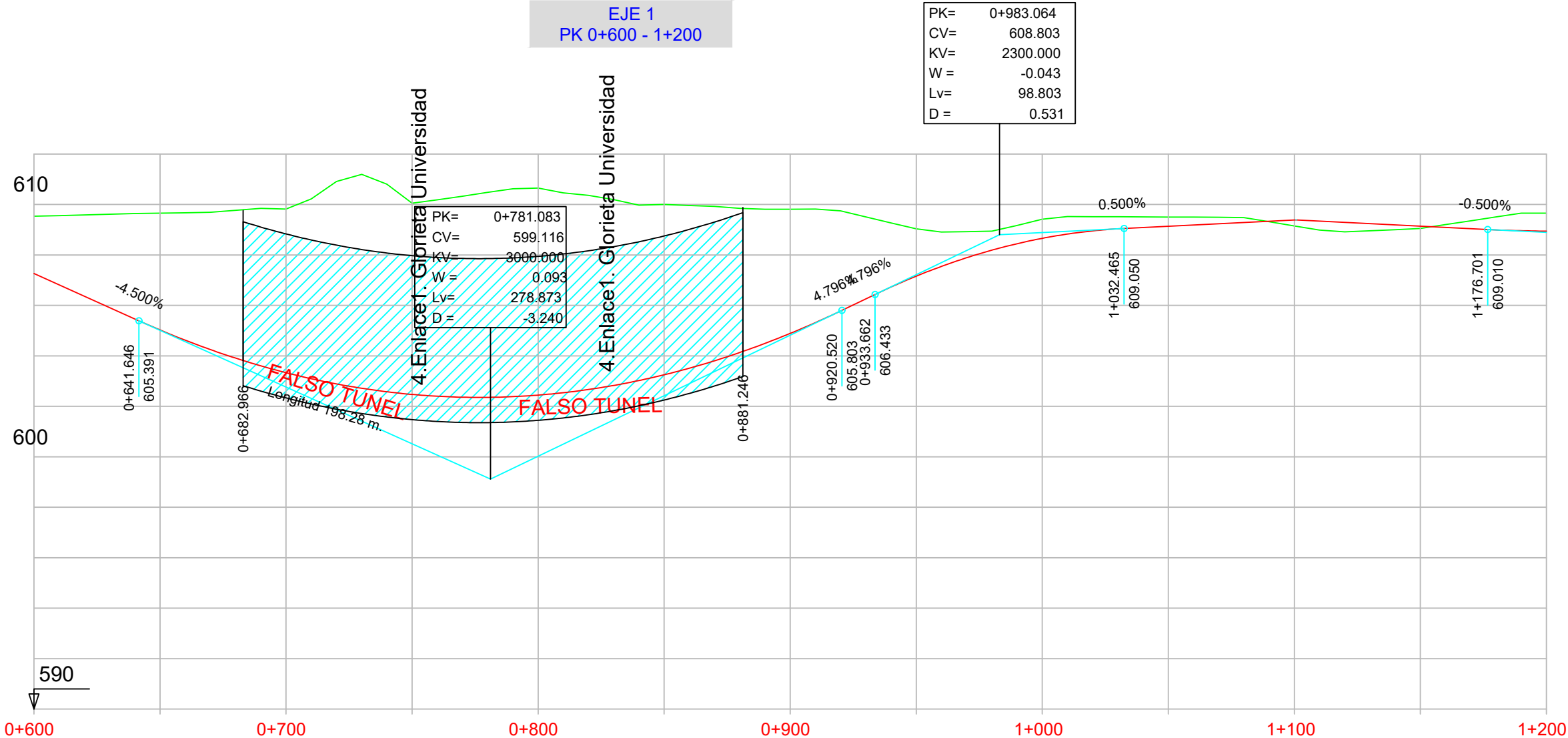
DIAGRAMA DE CURVATURAS	

DIAGRAMA DE PERALTES	





LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

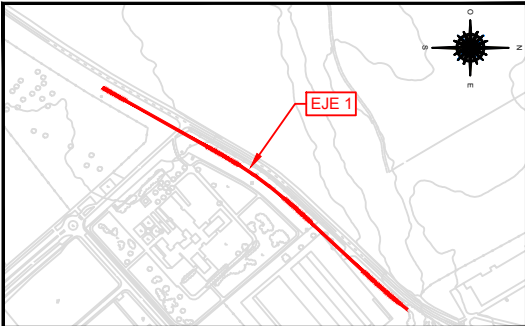


P.K.		
COTAS	RASANTE	TERRENO

0+600	0+700	0+800	0+900	1+000	1+100	1+200
607.265 609.54	605.026 609.66	603.332 609.32	602.472 610.05	602.444 610.65	603.250 610.00	604.889 609.81
						607.159 609.03
						608.658 609.41
						609.137 609.50
						609.387 609.15
						609.143 609.05
						608.944 609.66

DIAGRAMA DE CURVATURAS	
R=5000	A=180
R=404	A=180
RECTA	
A=295	R=1500
A=295	

DIAGRAMA DE PERALTES	
BD:2.00%	BI:8.00%
BD:8.00%	BD:6.12%
BI:6.12%	



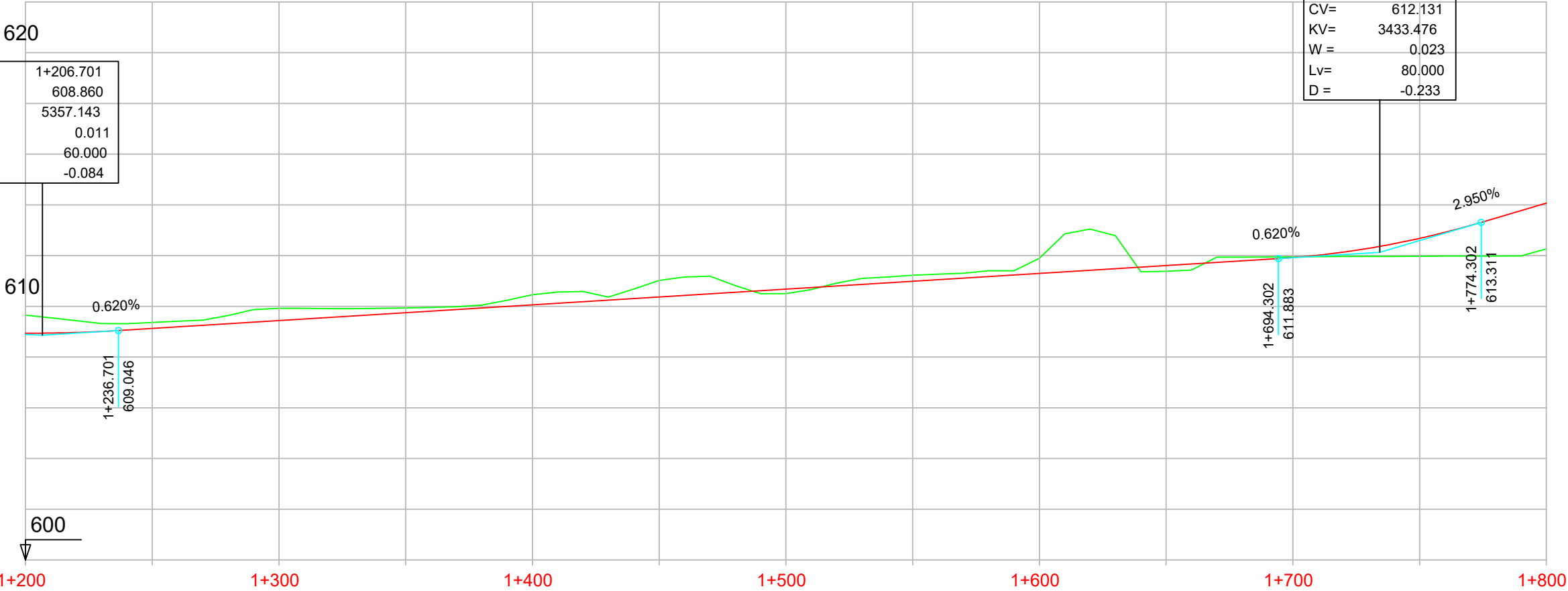
EJE 1  
PK 1+200 - 1+800

**LEYENDA**

- RASANTE
- TERRENO

PK=	1+206.701
CV=	608.860
KV=	5357.143
W =	0.011
Lv=	60.000
D =	-0.084

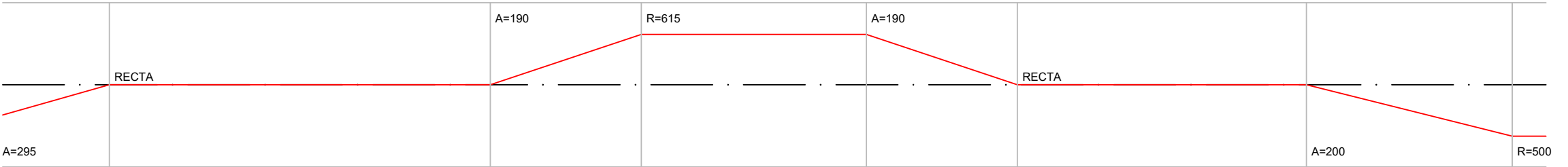
PK=	1+734.302
CV=	612.131
KV=	3433.476
W =	0.023
Lv=	80.000
D =	-0.233



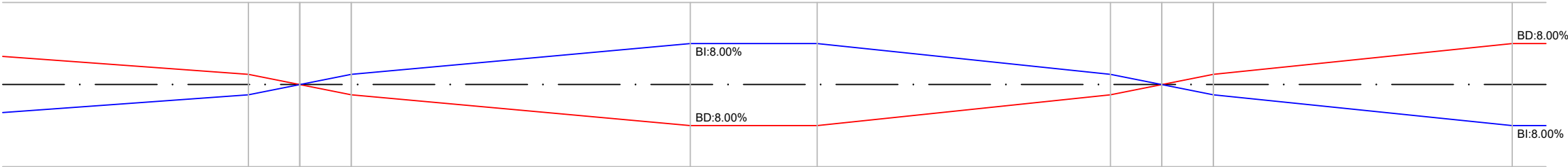
P.K.		
COTAS	RASANTE	TERRENO

1+200	1+300	1+400	1+500	1+600	1+700	1+800						
608.944 609.66	609.128 609.36	609.438 609.92	609.748 609.94	610.058 610.45	610.368 611.02	610.678 610.50	610.988 611.23	611.298 611.90	611.608 611.38	611.923 611.95	612.680 611.98	614.069 612.26

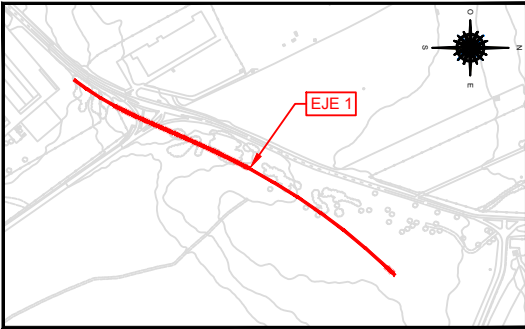
**DIAGRAMA DE CURVATURAS**



**DIAGRAMA DE PERALTES**

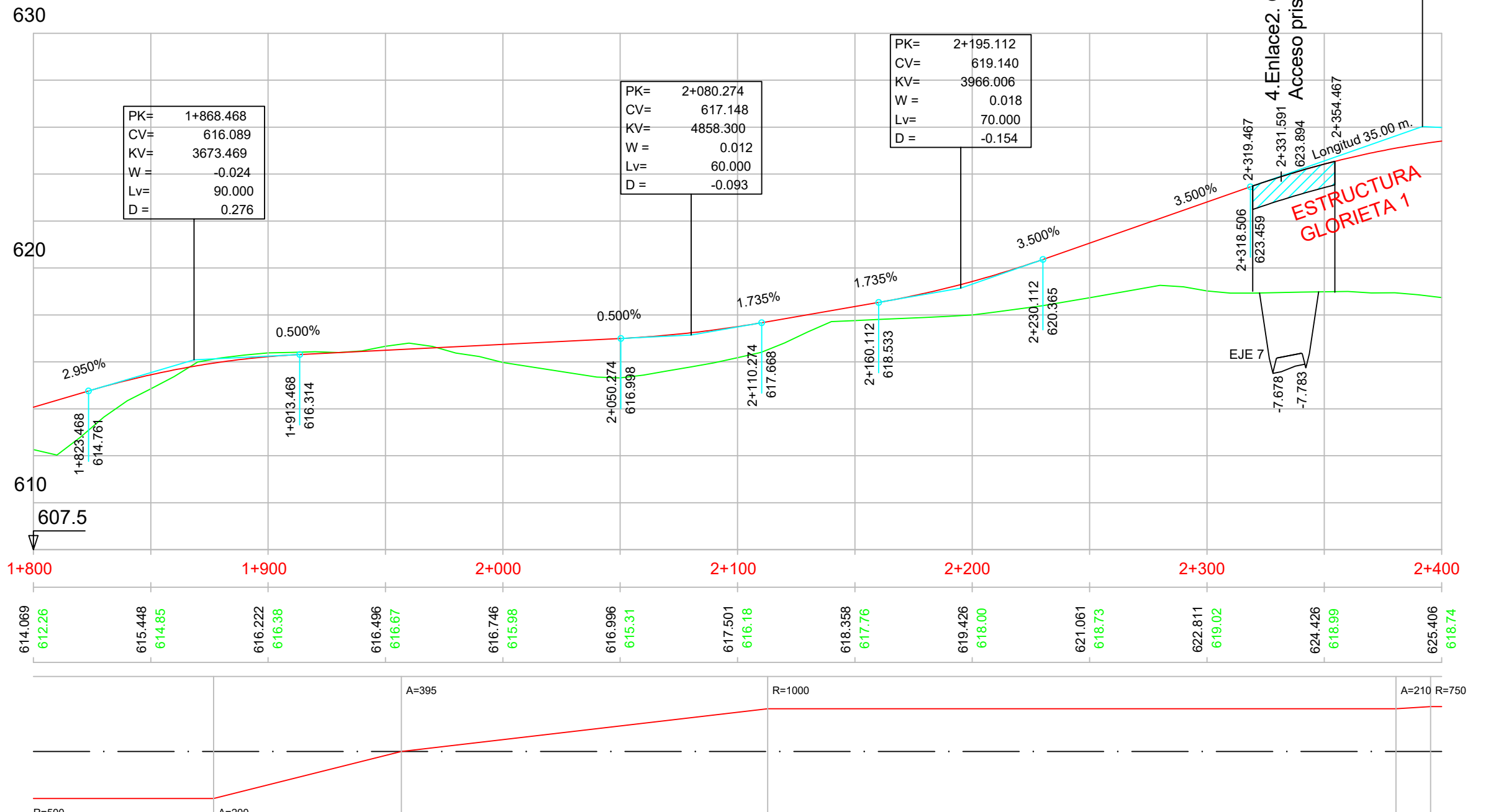


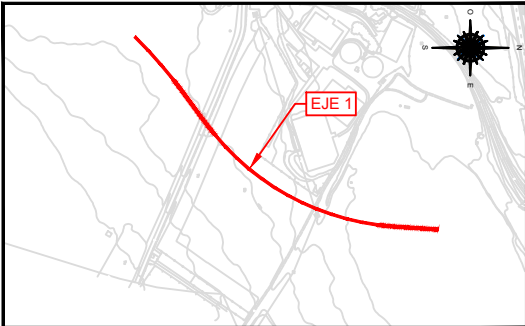




EJE 1  
PK 1+800 - 2+400

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

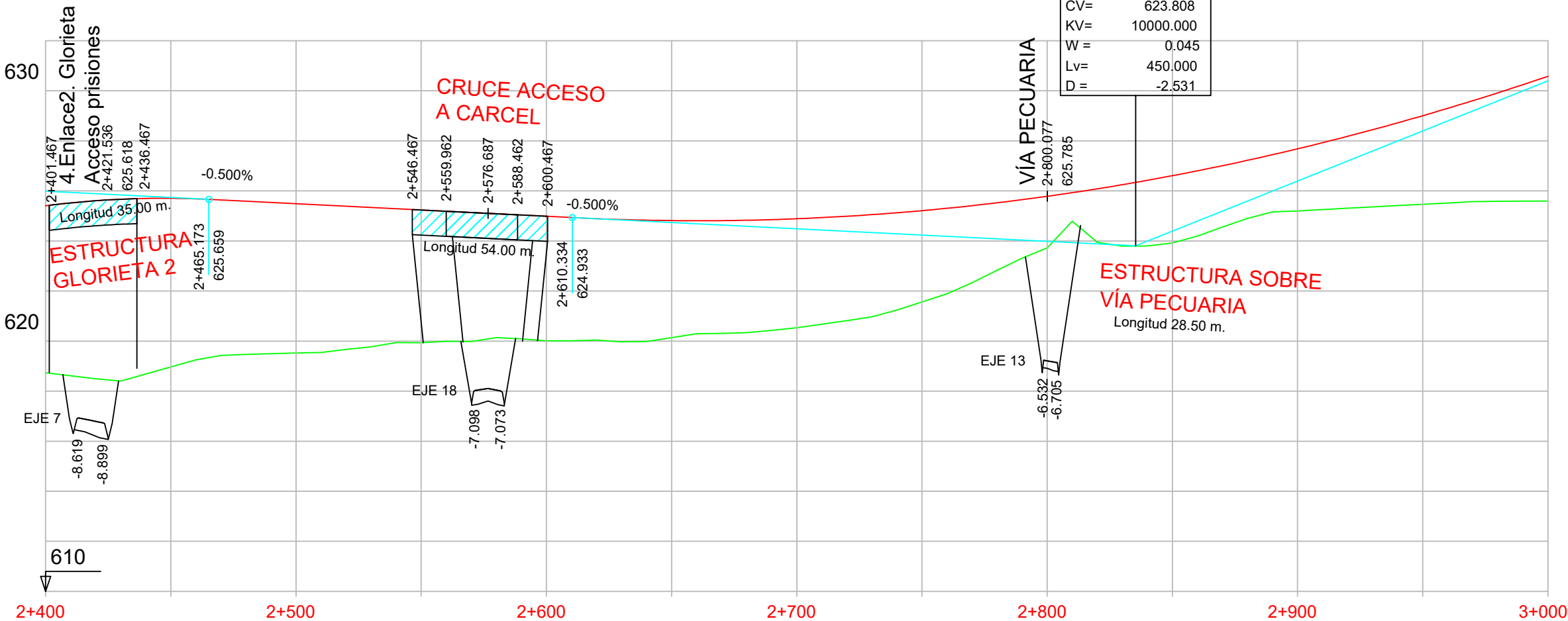




EJE 1  
PK 2+400 - 3+000

PK=	2+835.334
CV=	623.808
KV=	10000.000
W =	0.045
Lv=	450.000
D =	-2.531

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

+400		2+500		2+600		2+700		2+800		2+900		3+000
625.406 618.74	625.704 618.97	625.485 619.53	625.235 619.93	624.985 620.01	624.814 620.14	624.887 620.54	625.210 621.56	625.784 623.72	626.607 623.92	627.680 625.20	629.004 625.46	630.577 625.59

DIAGRAMA DE CURVATURAS	
R=750	A=210
A=145	R=404
A=145	A=235

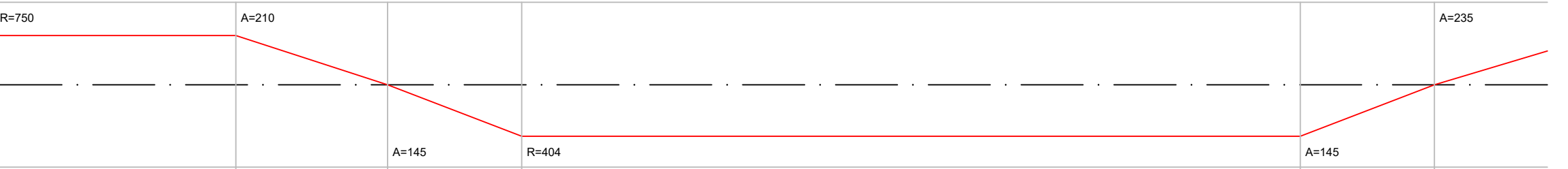
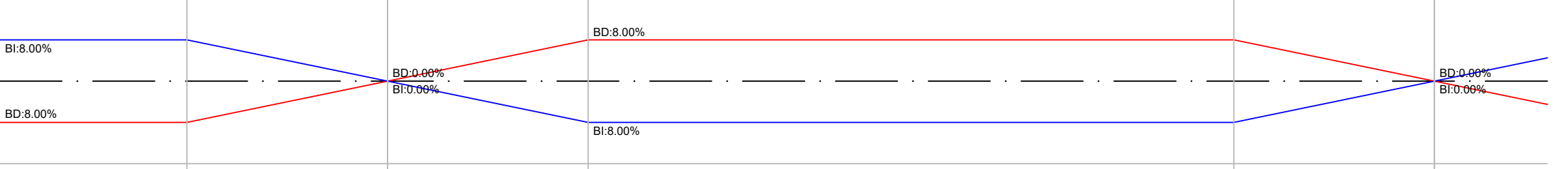
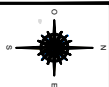
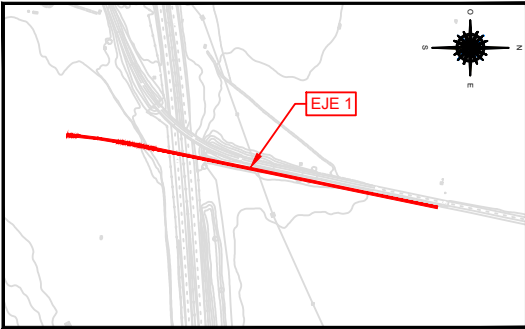


DIAGRAMA DE PERALTES	
BI:8.00%	BD:8.00%
BD:8.00%	BD:8.00%
BD:8.00%	BD:8.00%

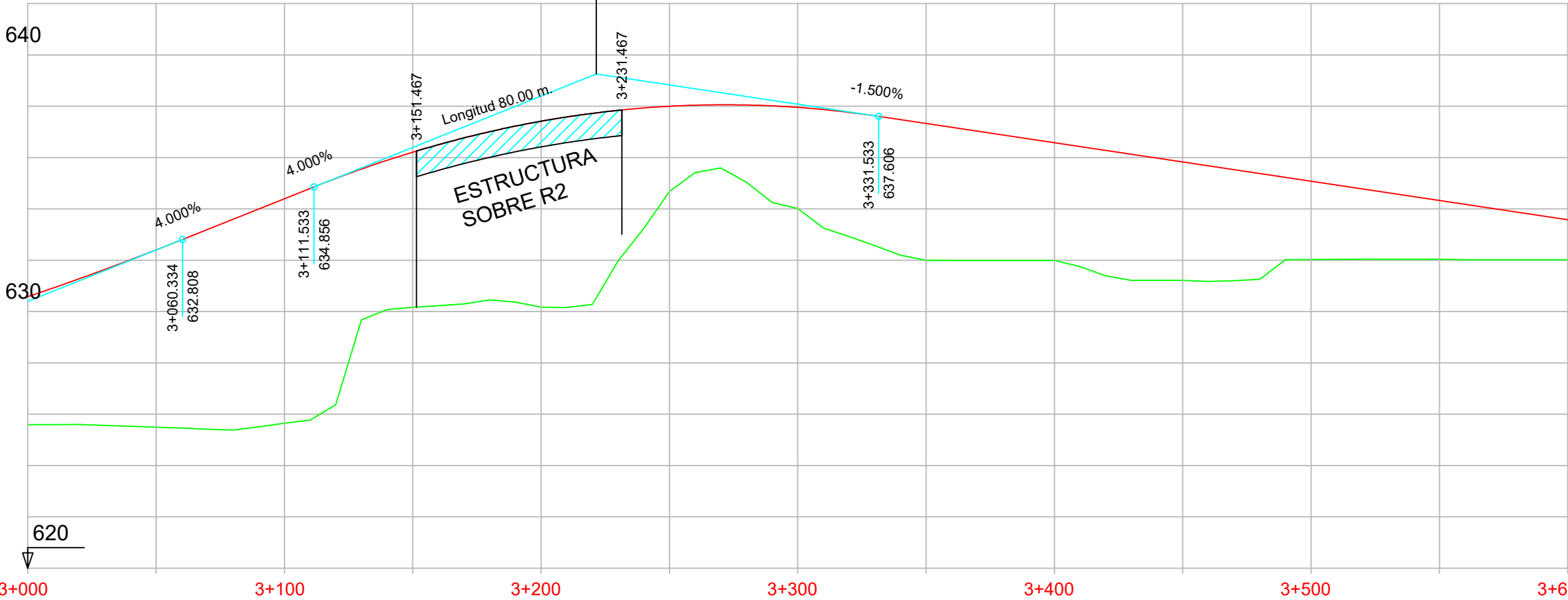




PK= 3+221.533  
CV= 639.256  
KV= 4000.000  
W = -0.055  
Lv= 220.000  
D = 1.513

EJE 1  
PK 3+000 - 3+600

LEYENDA  
RASANTE  
TERRENO



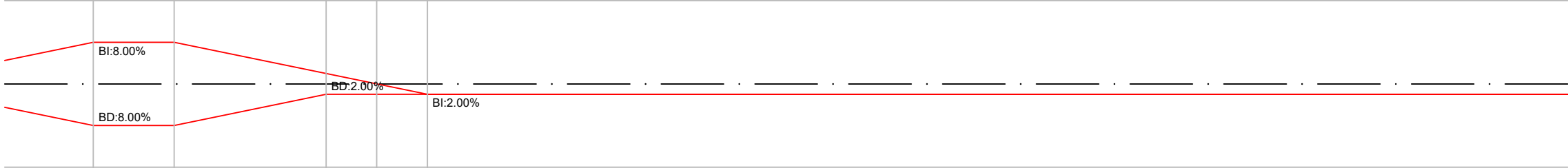
P.K.		
COTAS	RASANTE	TERRENO

3+000	3+100	3+200	3+300	3+400	3+500	3+600
630.577 625.59	632.400 625.49	634.395 625.65	636.210 630.16	637.417 630.17	637.998 634.68	637.955 634.02
637.329 632.00	636.579 631.99	635.829 631.21	635.079 632.03	634.329 632.04	633.579 632.02	

DIAGRAMA  
DE  
CURVATURAS



DIAGRAMA  
DE  
PERALTES





EJE 1  
PK 3+600 - 4+100

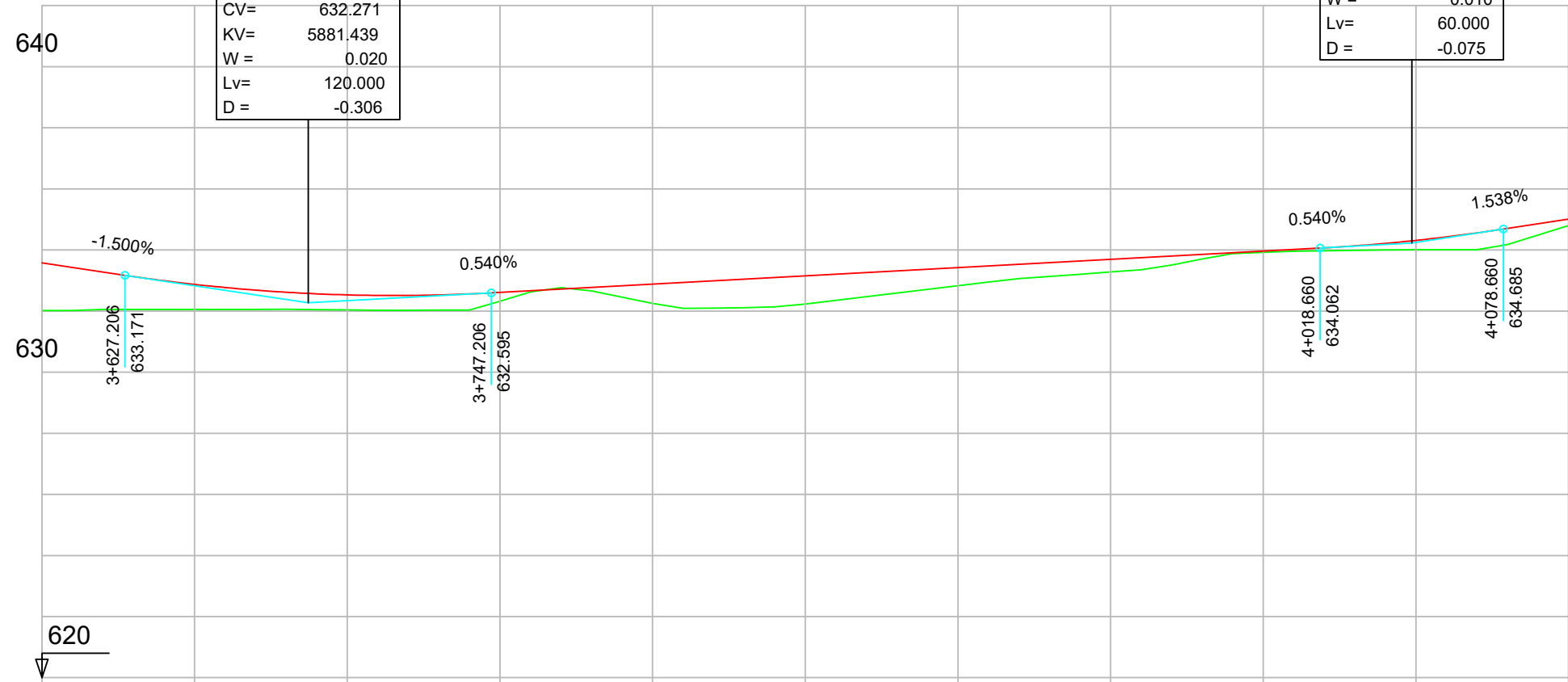
**LEYENDA**

— RASANTE

— TERRENO

PK=	3+687.206
CV=	632.271
KV=	5881.439
W =	0.020
Lv=	120.000
D =	-0.306

PK=	4+048.660
CV=	634.224
KV=	6014.427
W =	0.010
Lv=	60.000
D =	-0.075



P.K.		
COTAS	RASANTE	TERRENO

633.579	632.02	632.873	632.05	632.530	632.04	632.610	632.32	632.881	632.25	633.151	632.23	633.421	632.83	633.691	633.28	633.961	633.92	634.313	634.00	635.013	634.80
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DIAGRAMA  
DE  
CURVATURAS

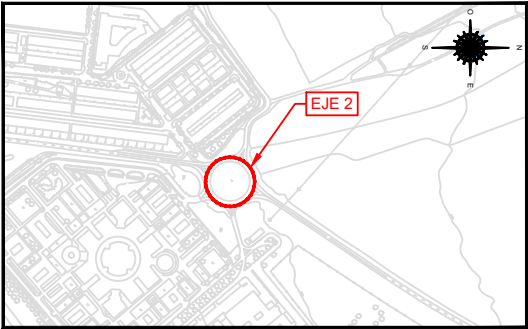
RECTA

RECTA

DIAGRAMA  
DE  
PERALTES

BD:2.00%  
BI:2.00%

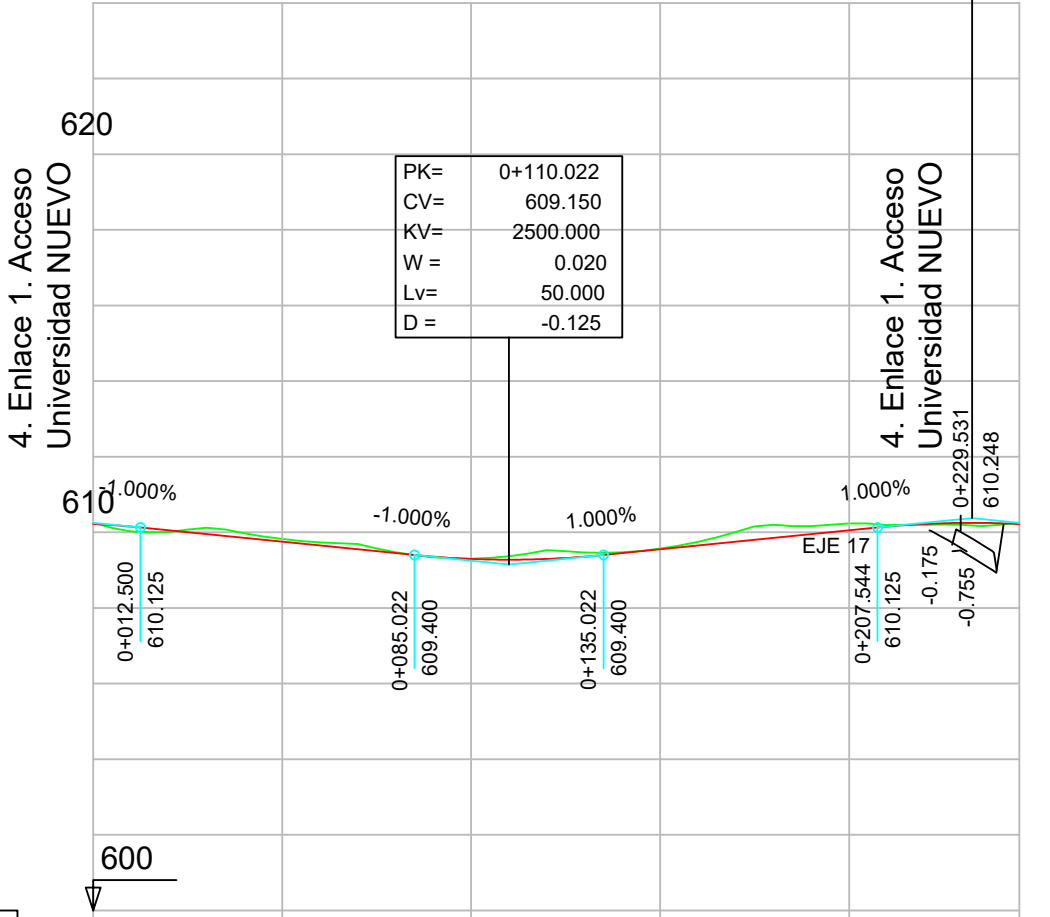




LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 2  
PK 0+000 - 0+245.04

PK=	0+232.544
CV=	610.375
KV=	2500.000
W =	-0.020
Lv=	50.000
D =	0.125



P.K.		
COTAS	RASANTE	TERRENO

0+000	0+100	0+200
610.219	609.750	610.050
610.25	609.82	610.23
	609.295	
	609.31	
	609.550	
	609.57	
		610.219
		610.25

DIAGRAMA DE CURVATURAS
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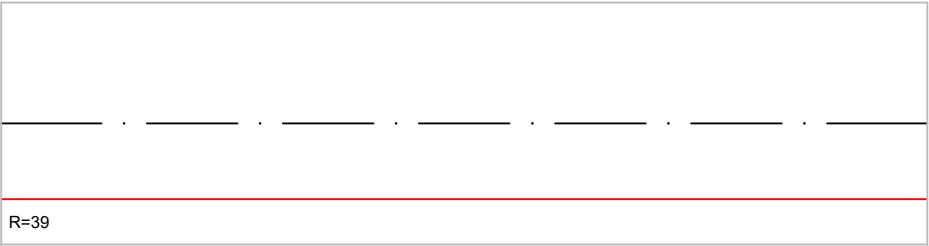
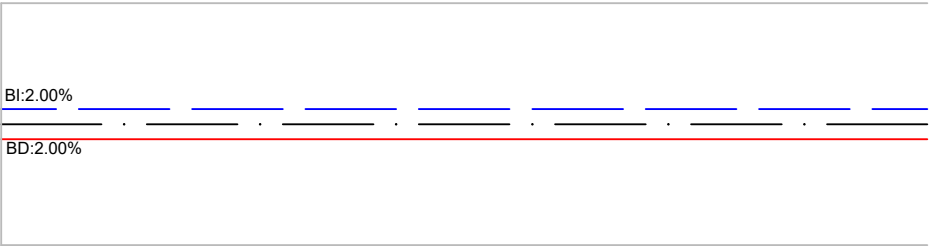
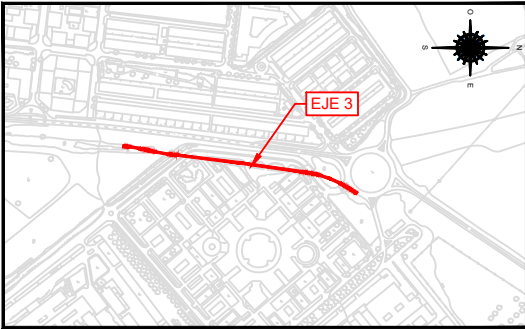


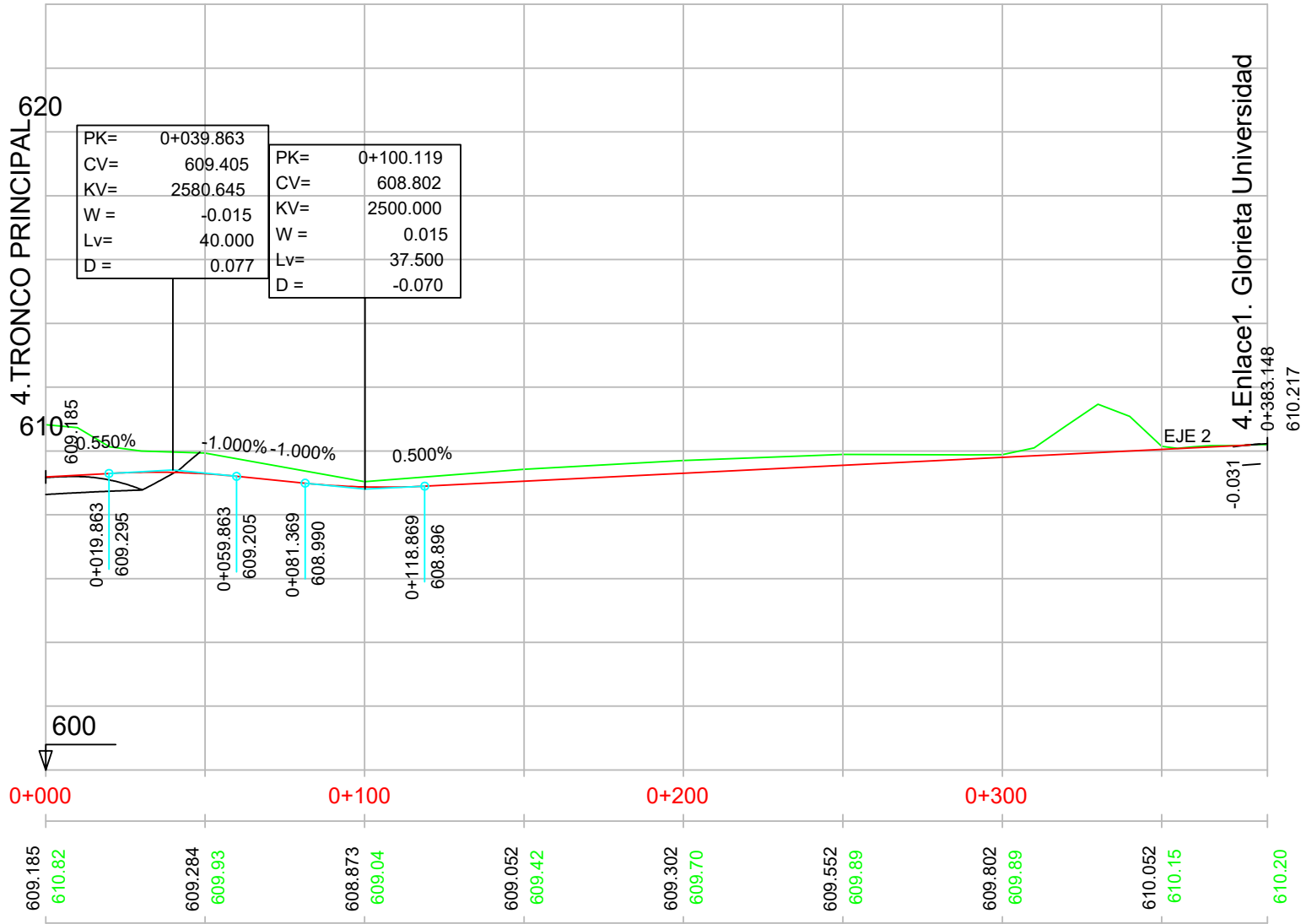
DIAGRAMA DE PERALTES
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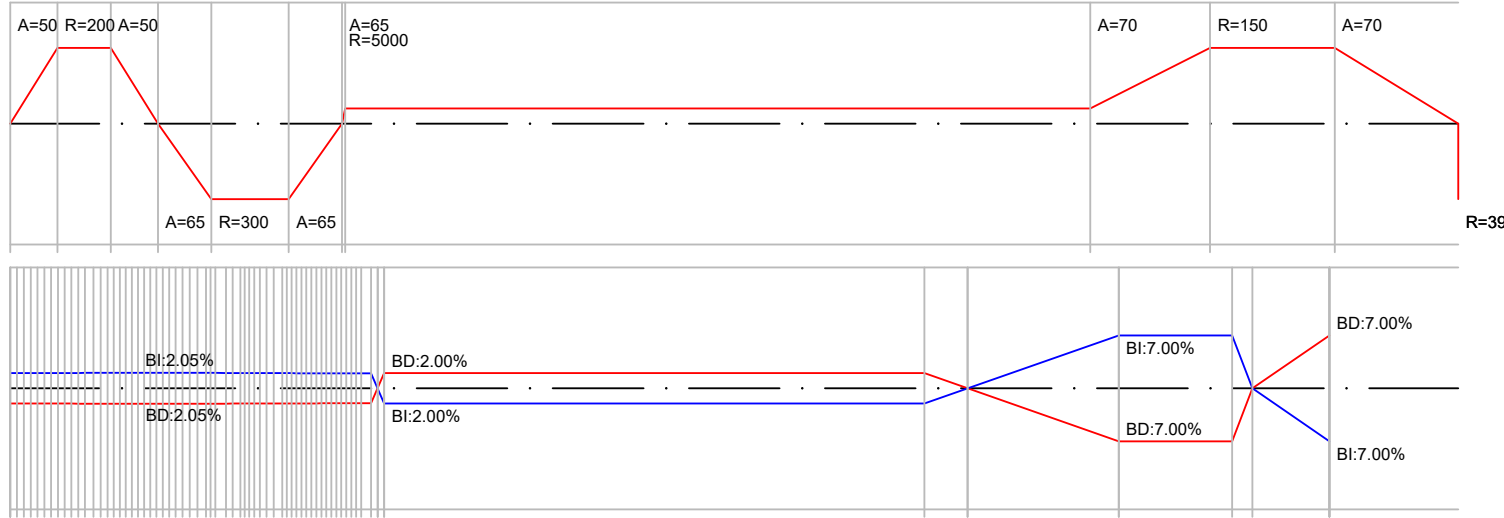
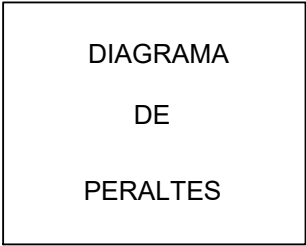
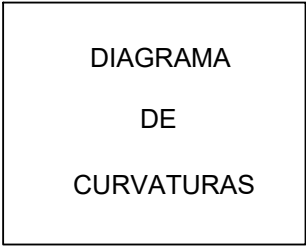


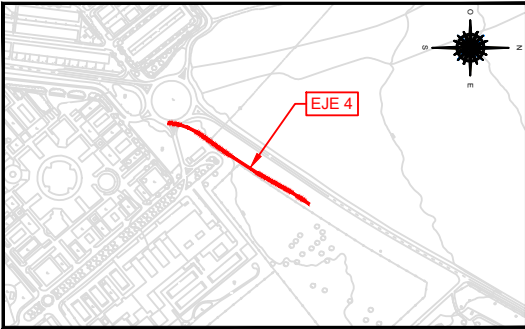
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 3  
PK 0+000 - 0+383.15

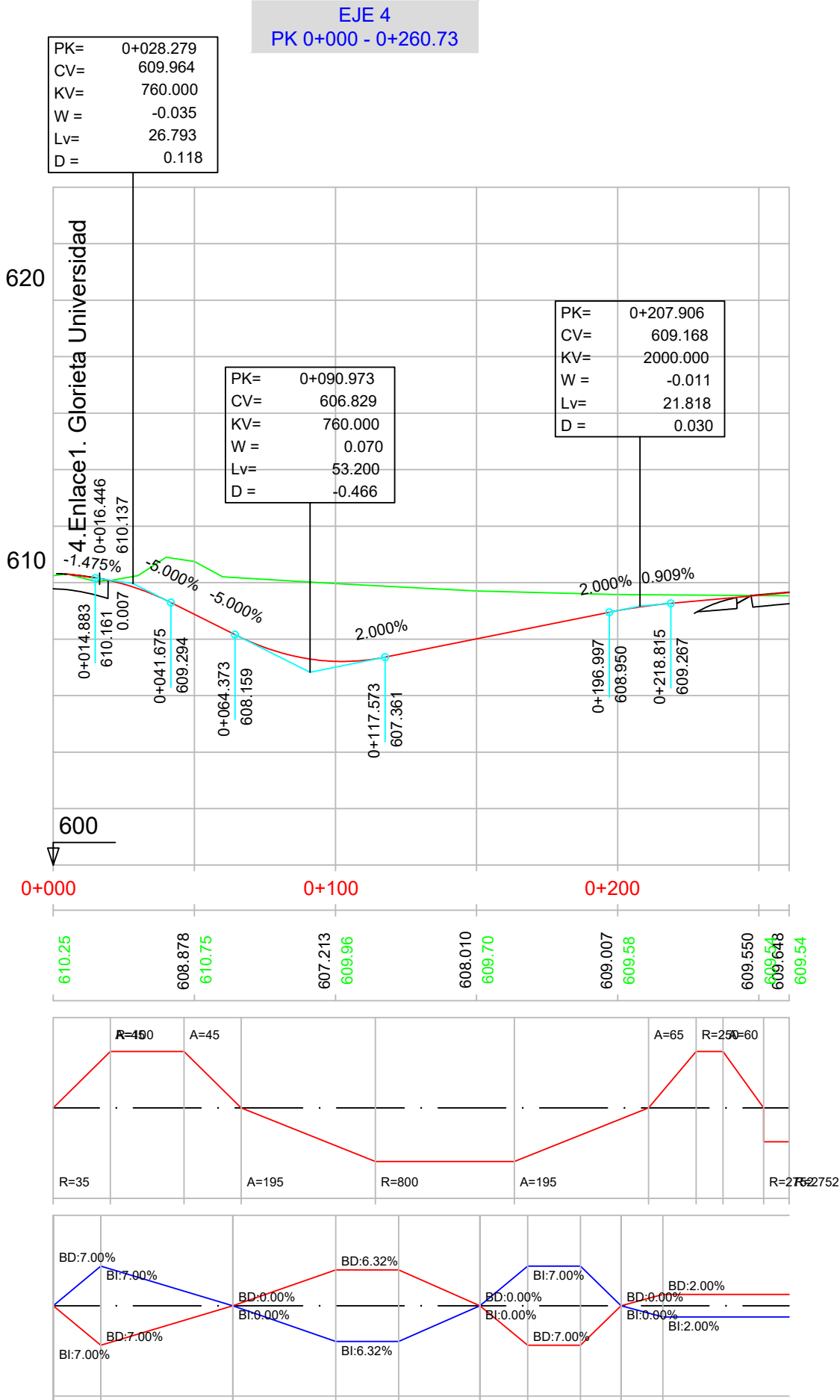


P.K.	COTAS RASANTE	COTAS TERRENO
0+000	609.185	610.82
0+100	609.284	609.93
0+200	608.873	609.04
0+300	609.052	609.42
0+400	609.302	609.70
0+500	609.552	609.89
0+600	609.802	609.89
0+700	610.052	610.15
0+800		610.20





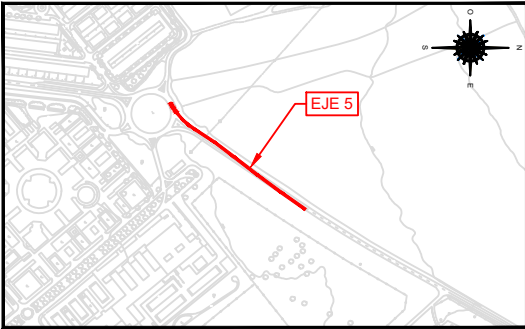
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS	

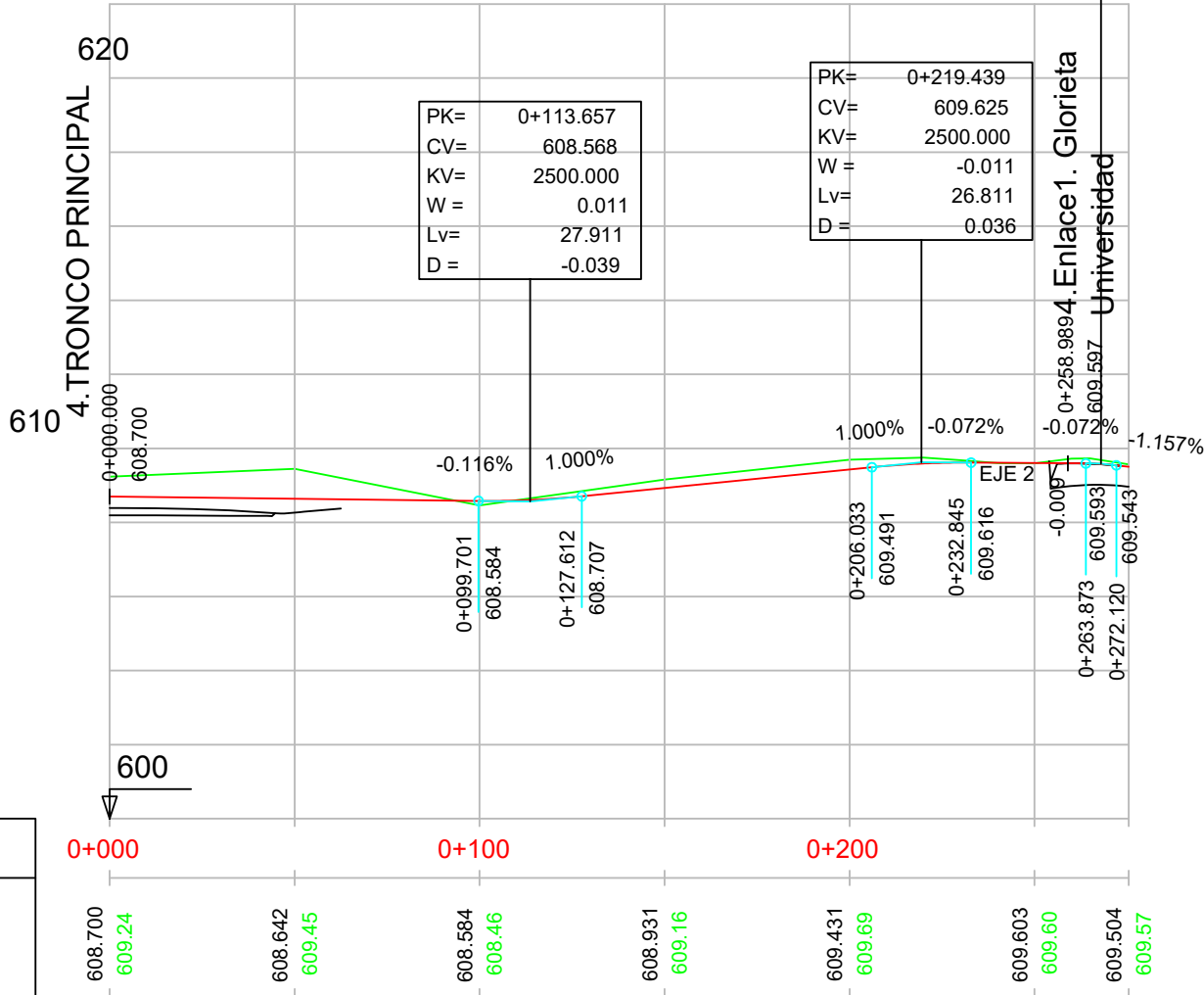
DIAGRAMA DE PERALTES	



LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 5  
PK 0+000 - 0+205.44

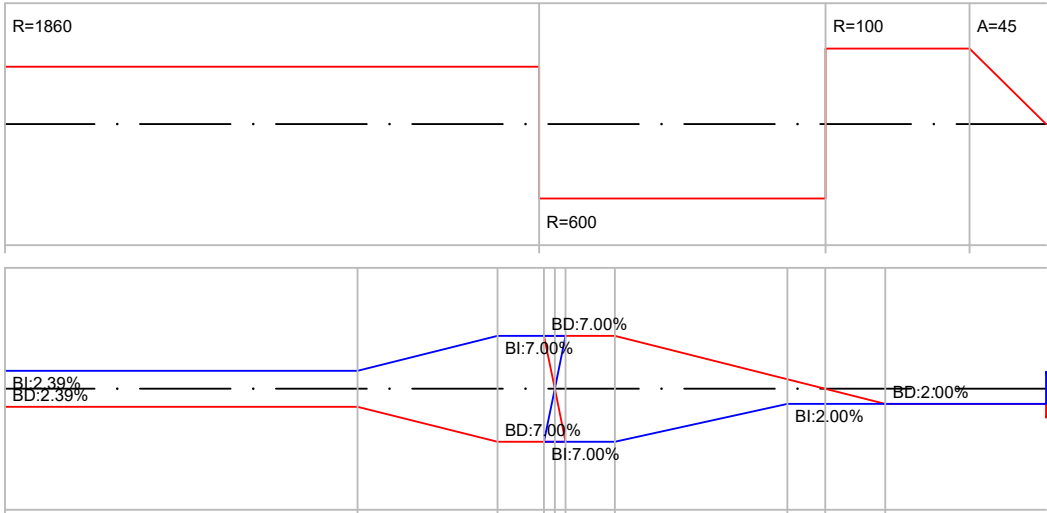
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CV=	609.590
KV=	760.000
W =	-0.011
Lv=	8.246
D =	0.011



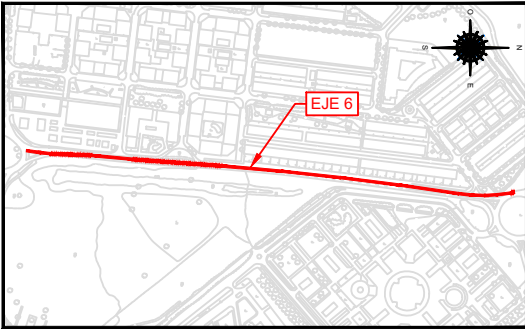
P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS
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DIAGRAMA DE PERALTES
----------------------------



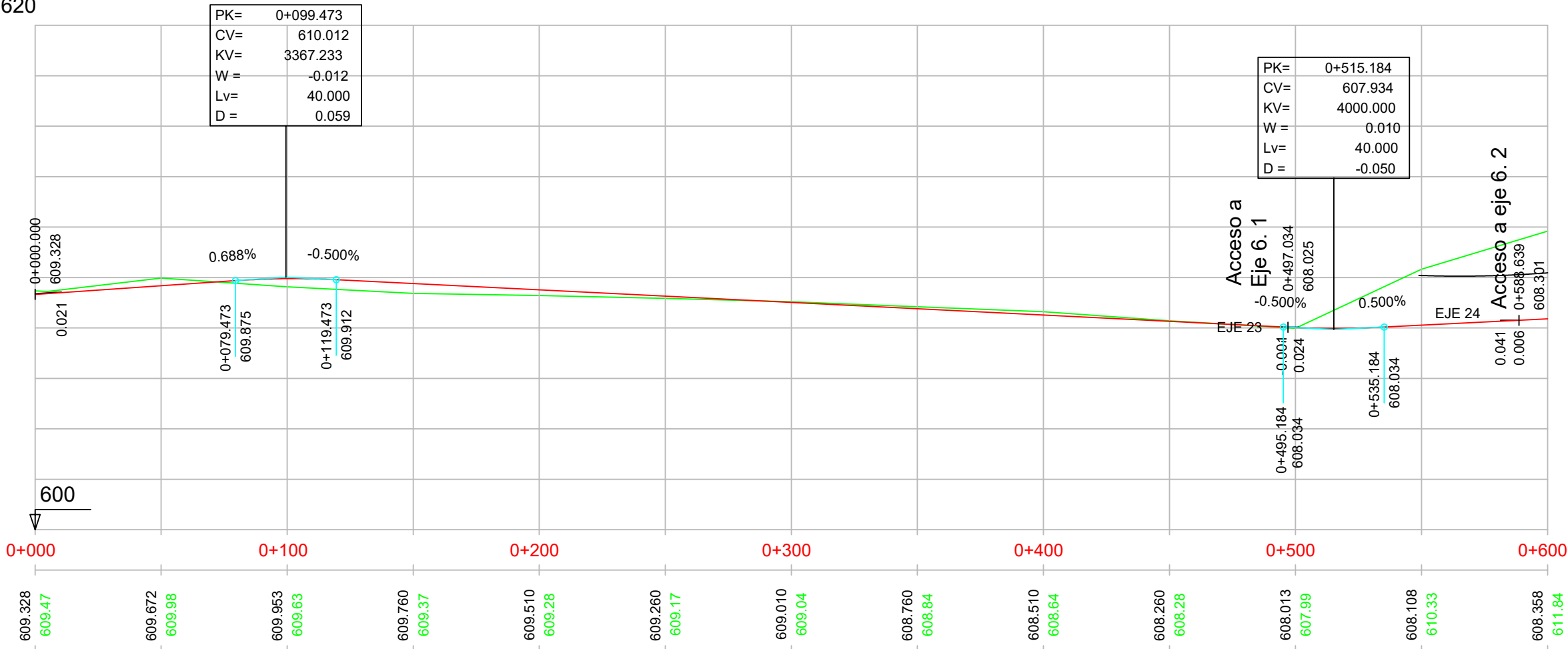




EJE 6  
PK 0+000 - 0+600

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

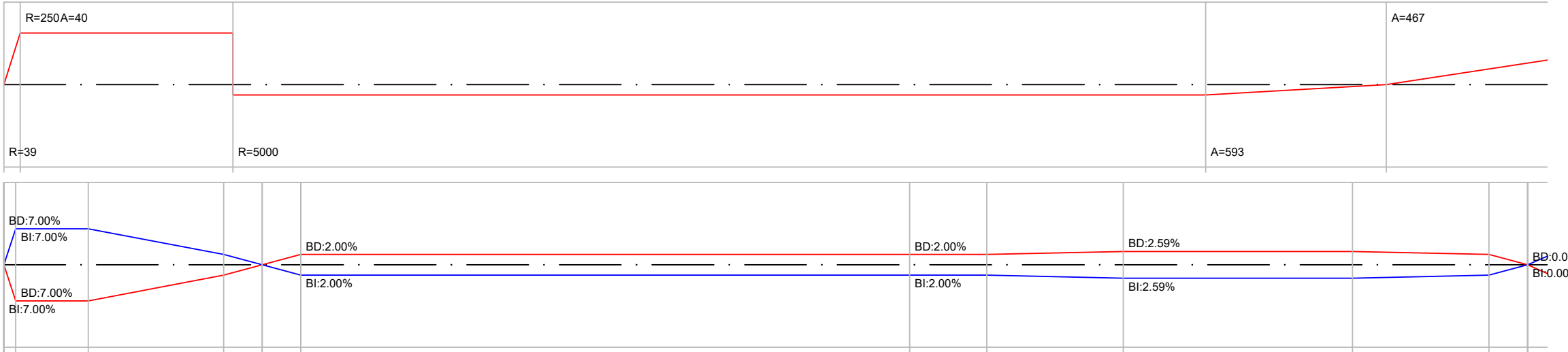
620  
4.Enlace1. Glorieta Universidad

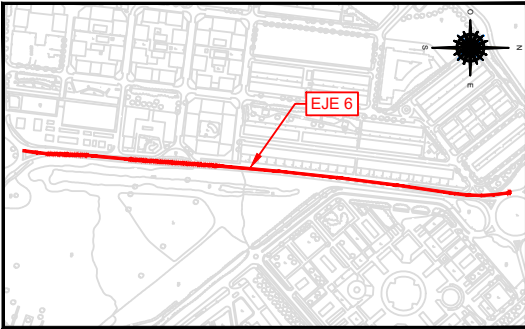


P.K.		
COTAS		
	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

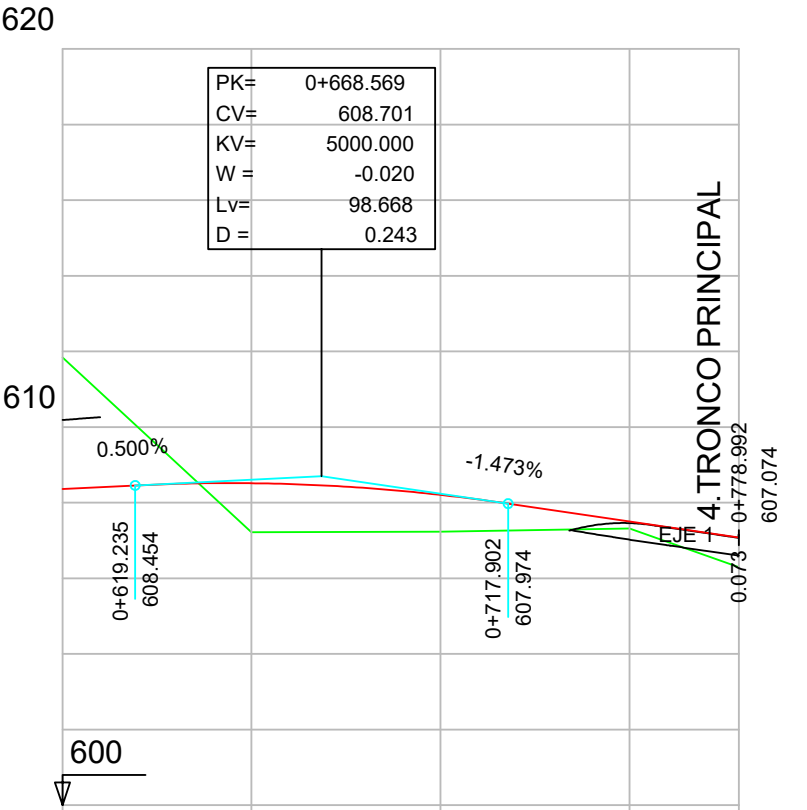
DIAGRAMA  
DE  
PERALTES





EJE 6  
PK 0+600 - 0+778.99

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

0+600	0+700				
608.358	608.513	608.206	607.501	606.29	
611.84	607.22	607.23	607.32		

DIAGRAMA DE CURVATURAS	
A=467R=3000	A=100 R=300 R=2986 R=2986

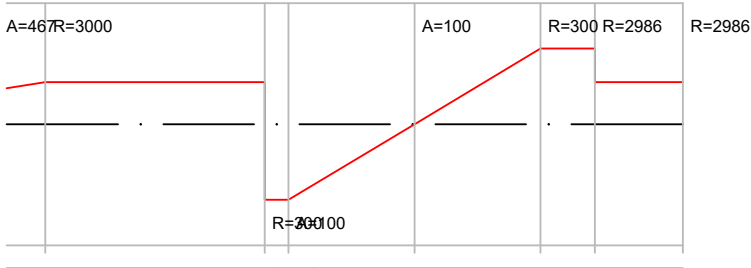
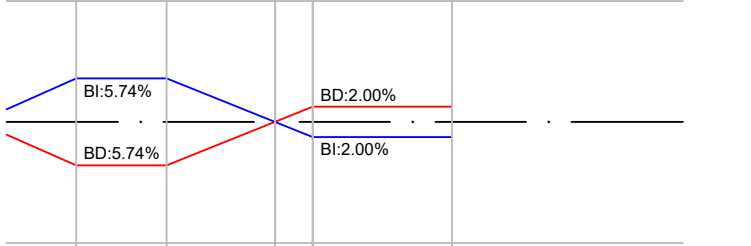
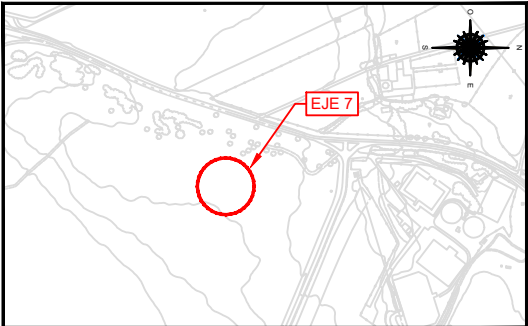


DIAGRAMA DE PERALTES	
BI:5.74%	BD:2.00%
BD:5.74%	BI:2.00%





LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

P.K.	COTAS	
	RASANTE	TERRENO

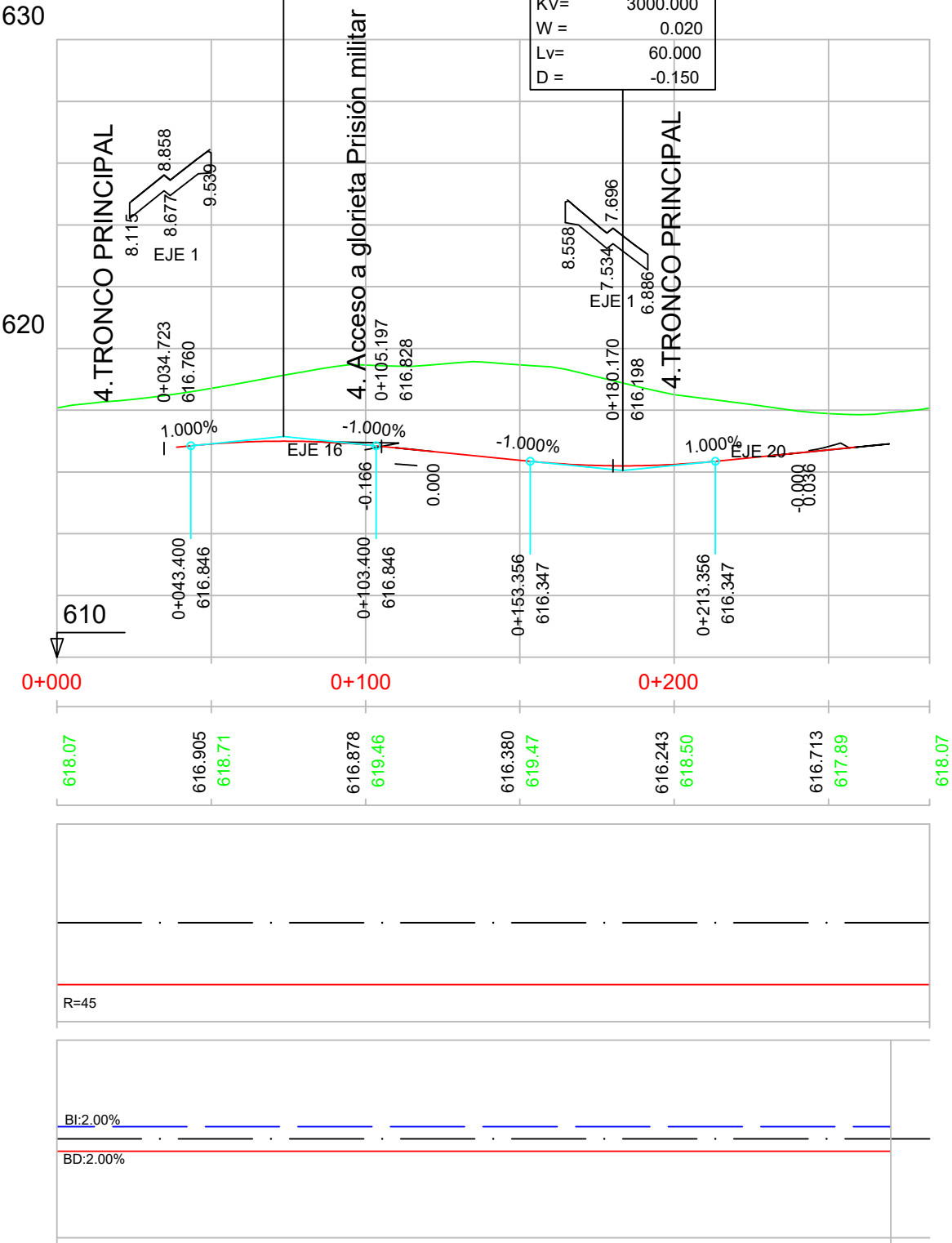
DIAGRAMA DE CURVATURAS
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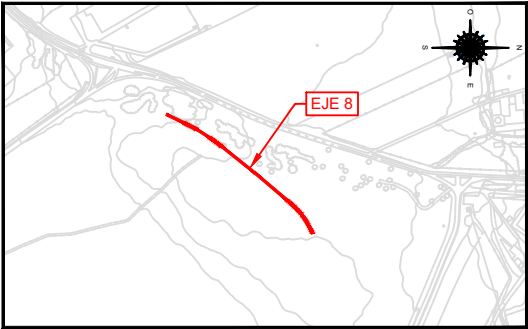
DIAGRAMA DE PERALTES
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EJE 7  
PK 0+00 - 0+282.04

PK=	0+073.400
CV=	617.146
KV=	3000.000
W =	-0.020
Lv=	60.000
D =	0.150

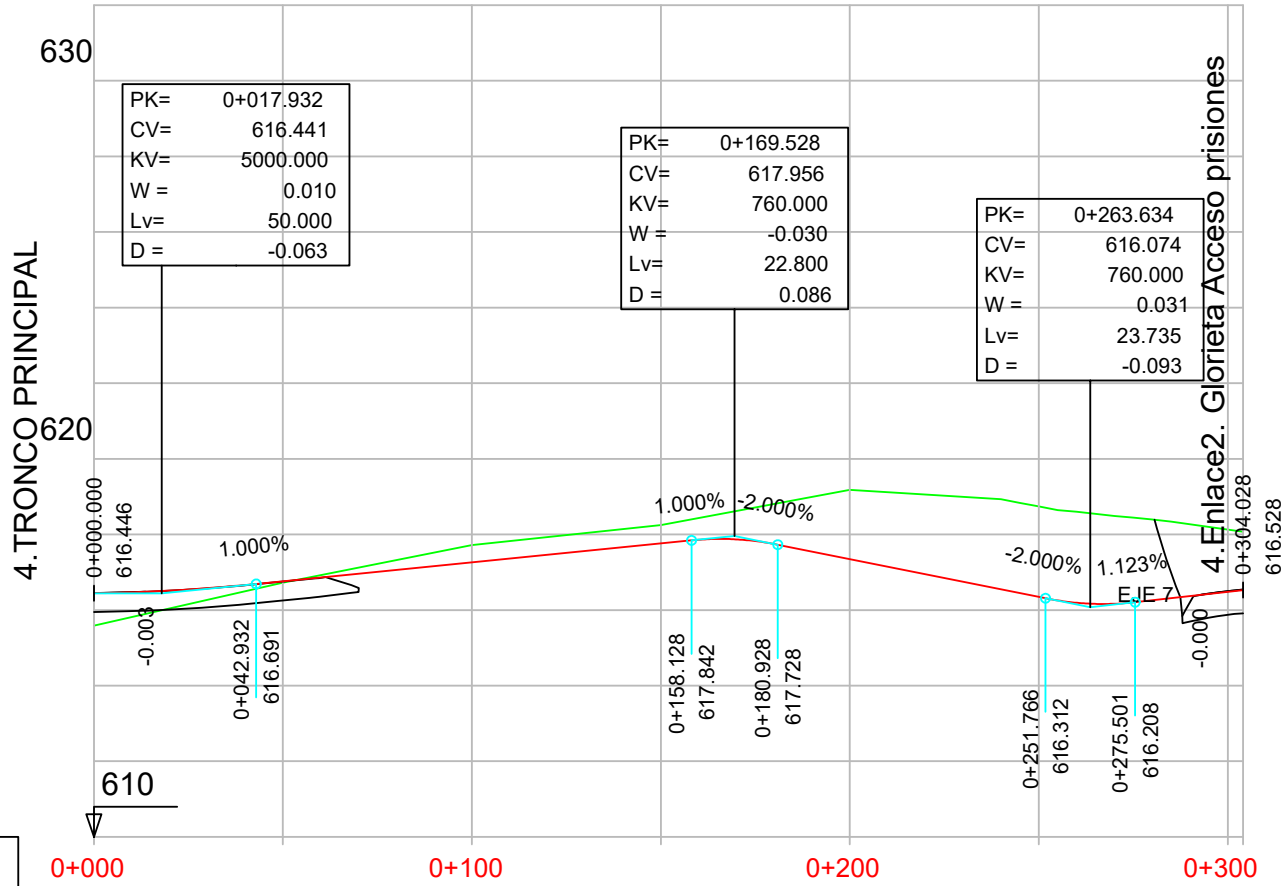
PK=	0+183.356
CV=	616.047
KV=	3000.000
W =	0.020
Lv=	60.000
D =	-0.150



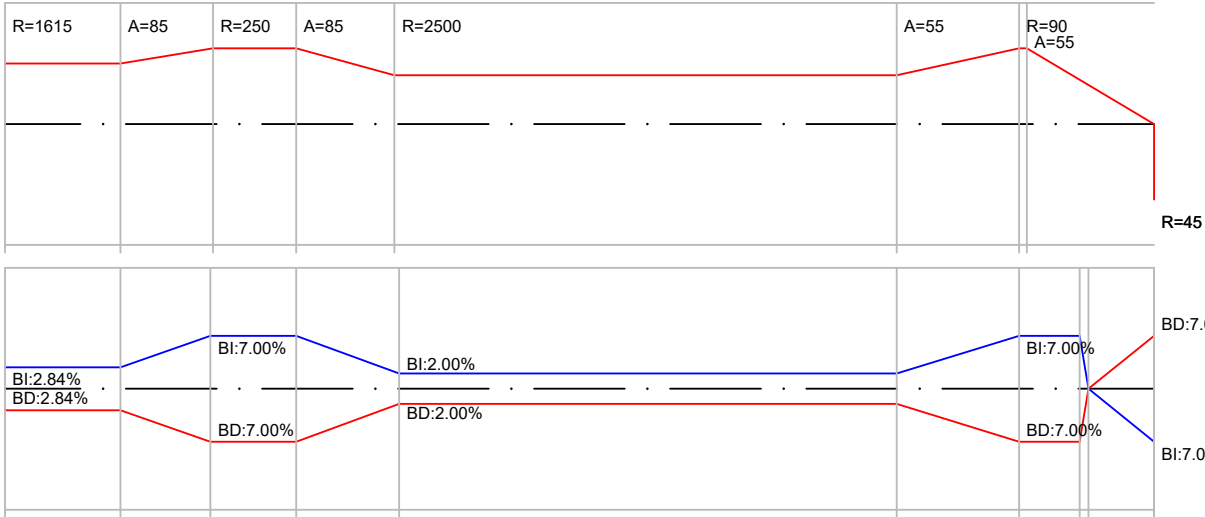
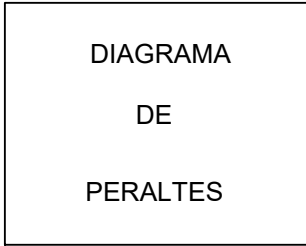
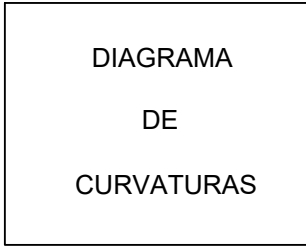


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

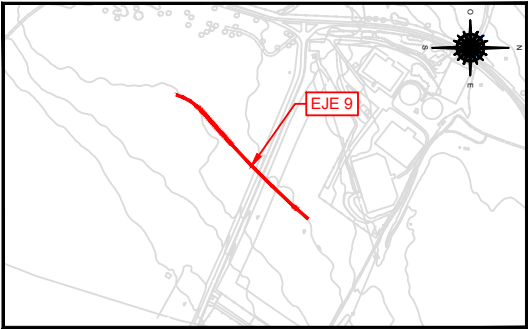
EJE 8  
PK 0+00 - 0+304.03



P.K.	COTAS	
	RASANTE	TERRENO
0+000	616.446	615.59
0+042.932	616.761	616.72
0+100	617.261	617.72
0+158.128	617.761	618.25
0+200	617.347	619.18
0+251.766	616.347	618.74
0+304.028	616.483	618.13

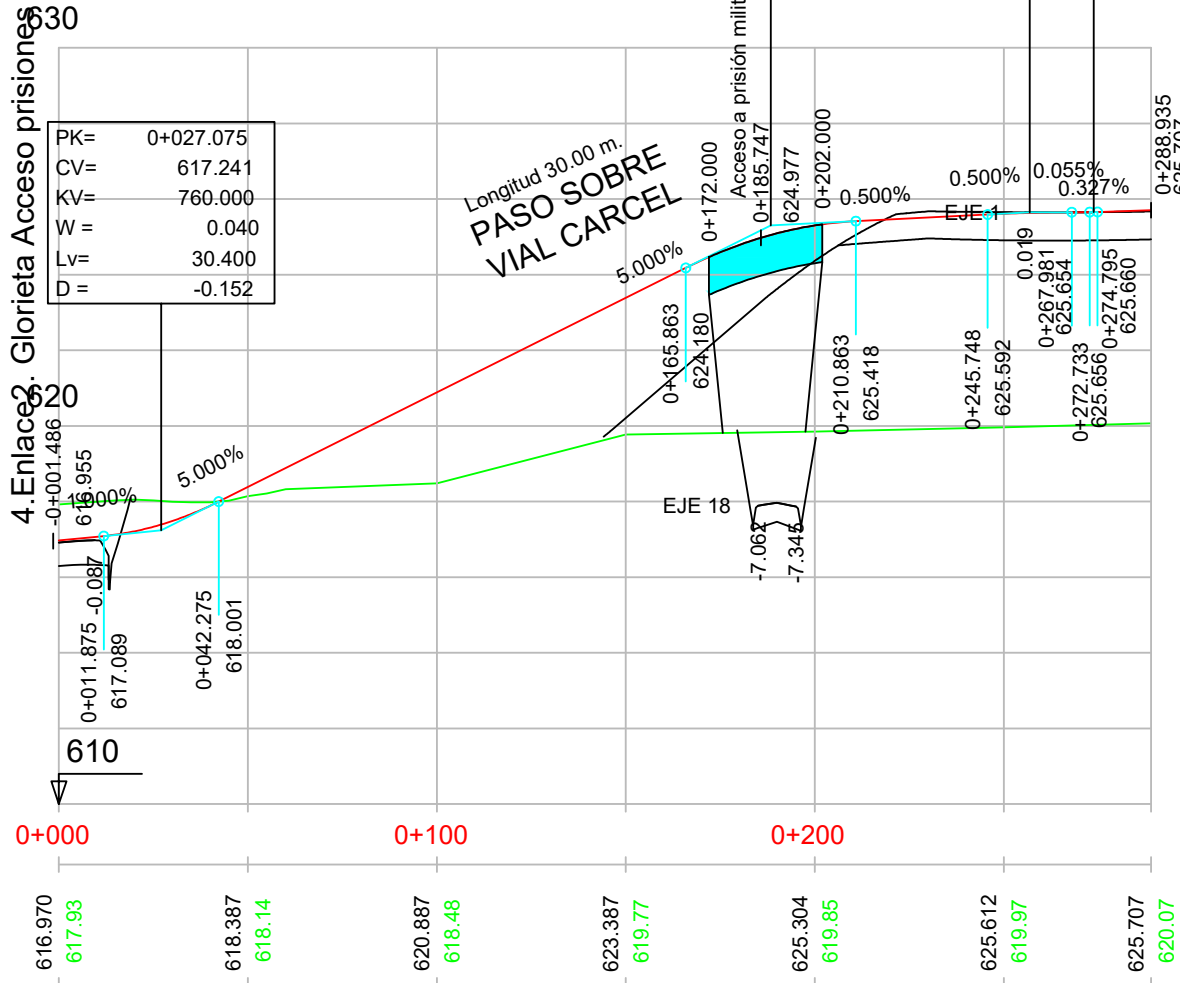






LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

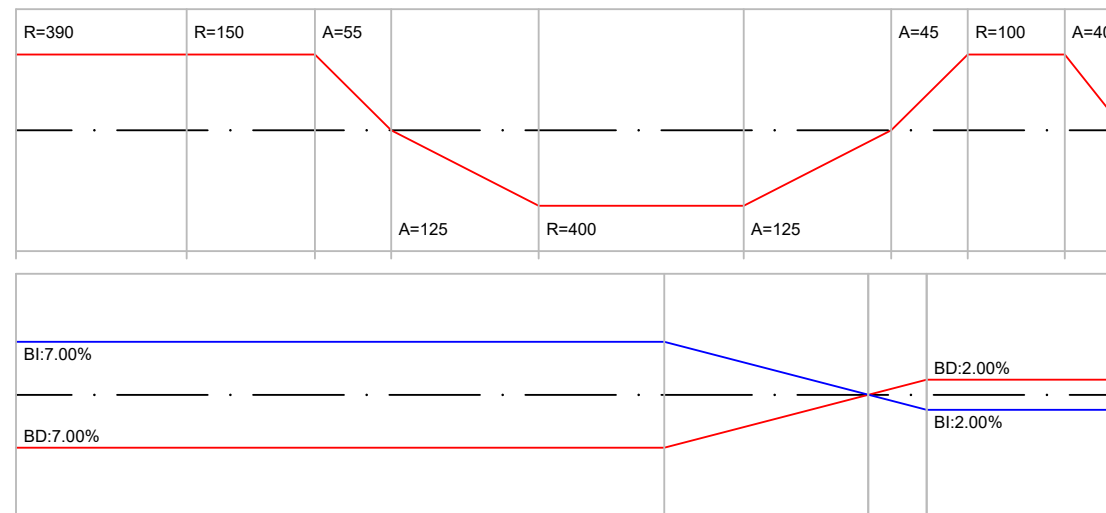
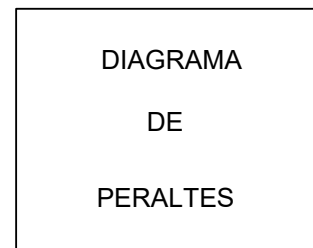
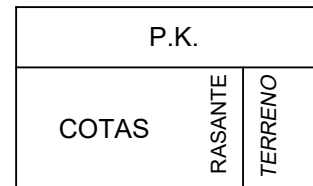
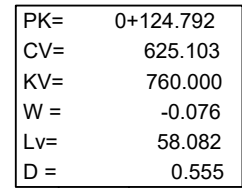
EJE 9  
PK 0+00 - 0+288.01

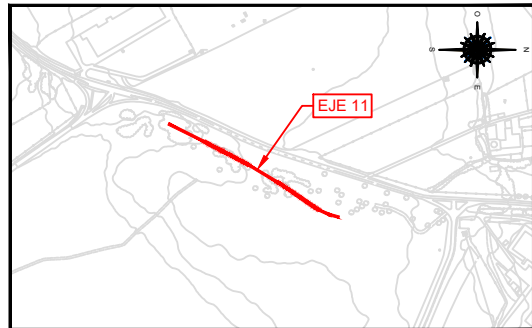


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS	
R=85	A=45
R=45	A=300
R=1500	A=700
R=415	A=700

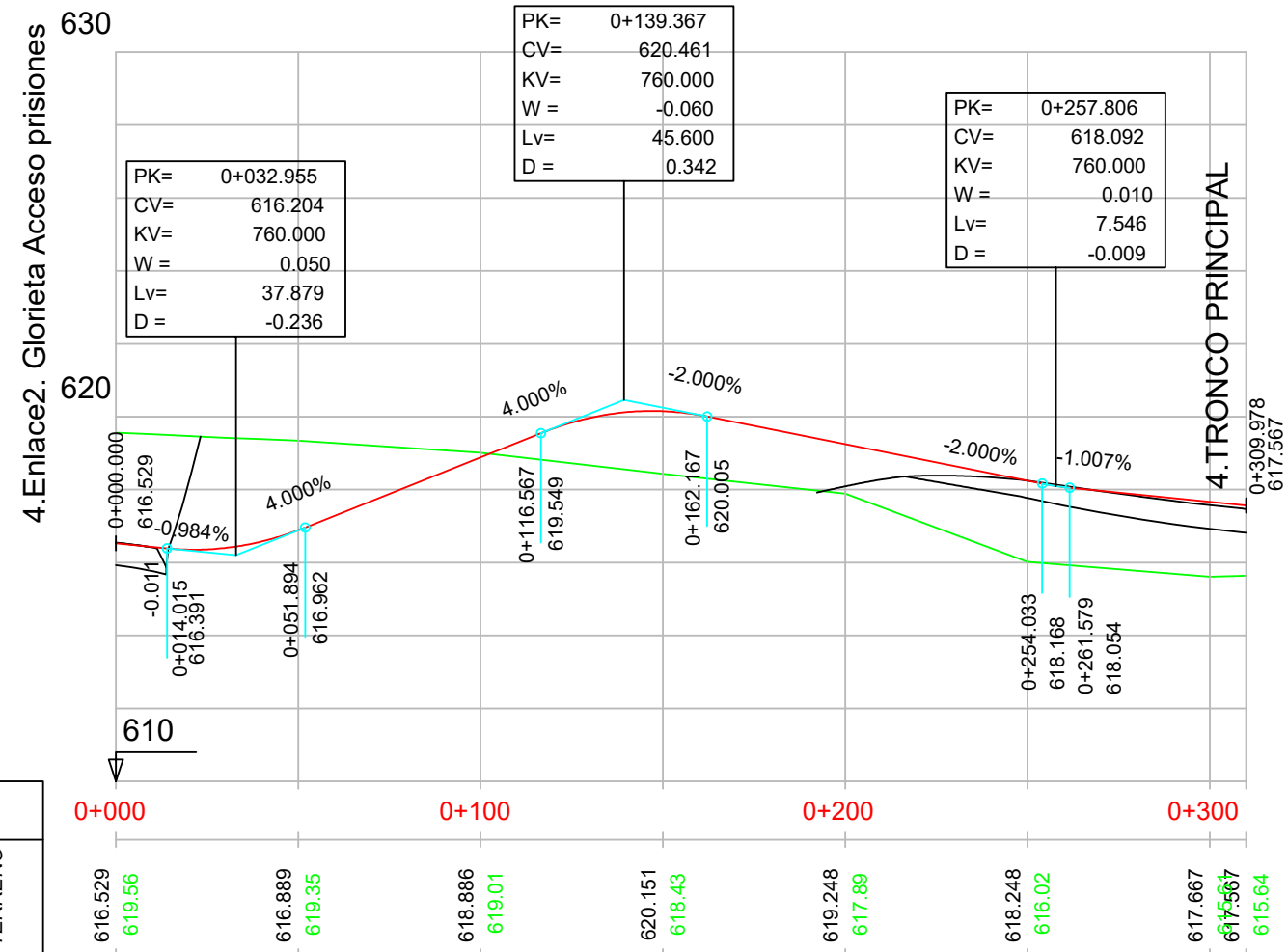
DIAGRAMA DE PERALTES	
BD:7.00%	BD:6.12%
BD:0.00%	BD:0.00%
BI:7.00%	BI:6.12%
BI:7.00%	BI:7.00%



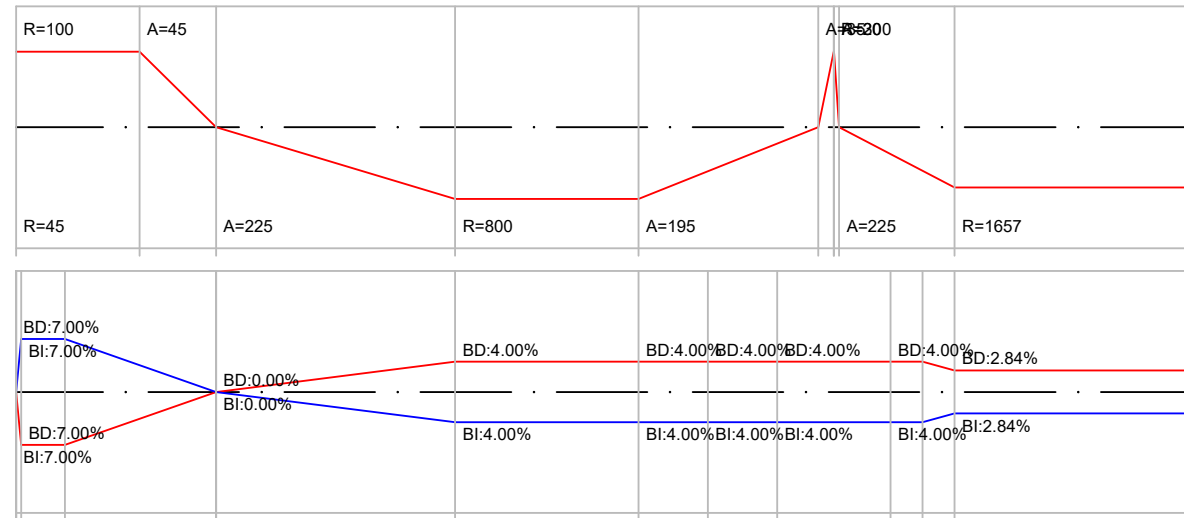
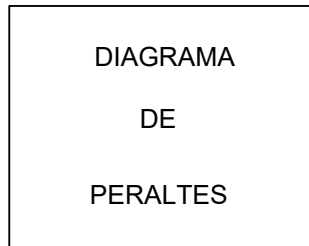
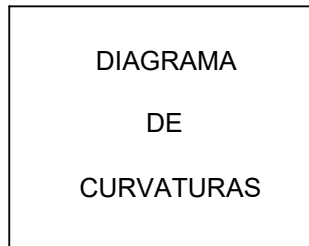


EJE 11  
PK 0+00 - 0+309.98

LEYENDA  
RASANTE  
TERRENO

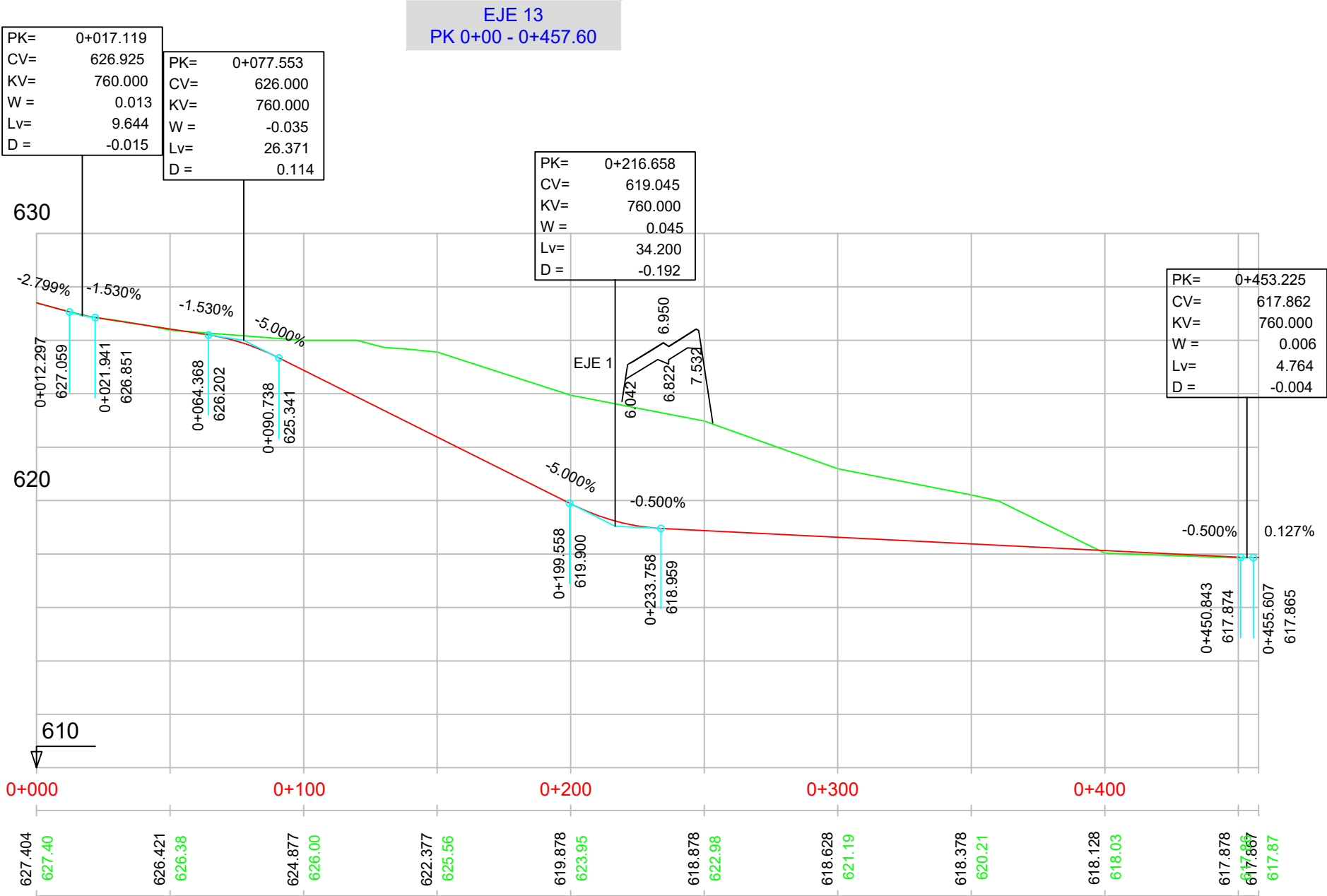


P.K.	COTAS	
	RASANTE	TERRENO





LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

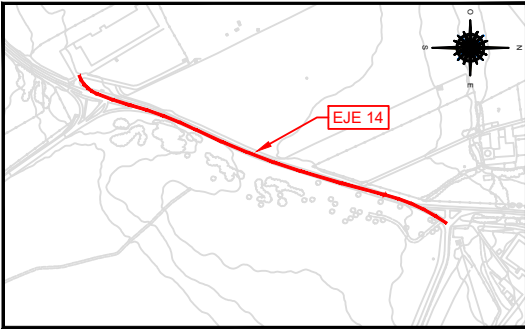


P.K.	COTAS	RASANTE	TERRENO
0+000	627.404	627.40	627.40
0+100	626.421	626.38	626.38
0+200	624.877	626.00	625.56
0+300	618.628	621.19	621.19
0+400	618.128	618.03	618.03
0+457.60	617.865	617.86	617.87

DIAGRAMA DE CURVATURAS
RECTA
R=100
R=400
R=160
R=250
R=3500
R=50
R=1000
R=1000

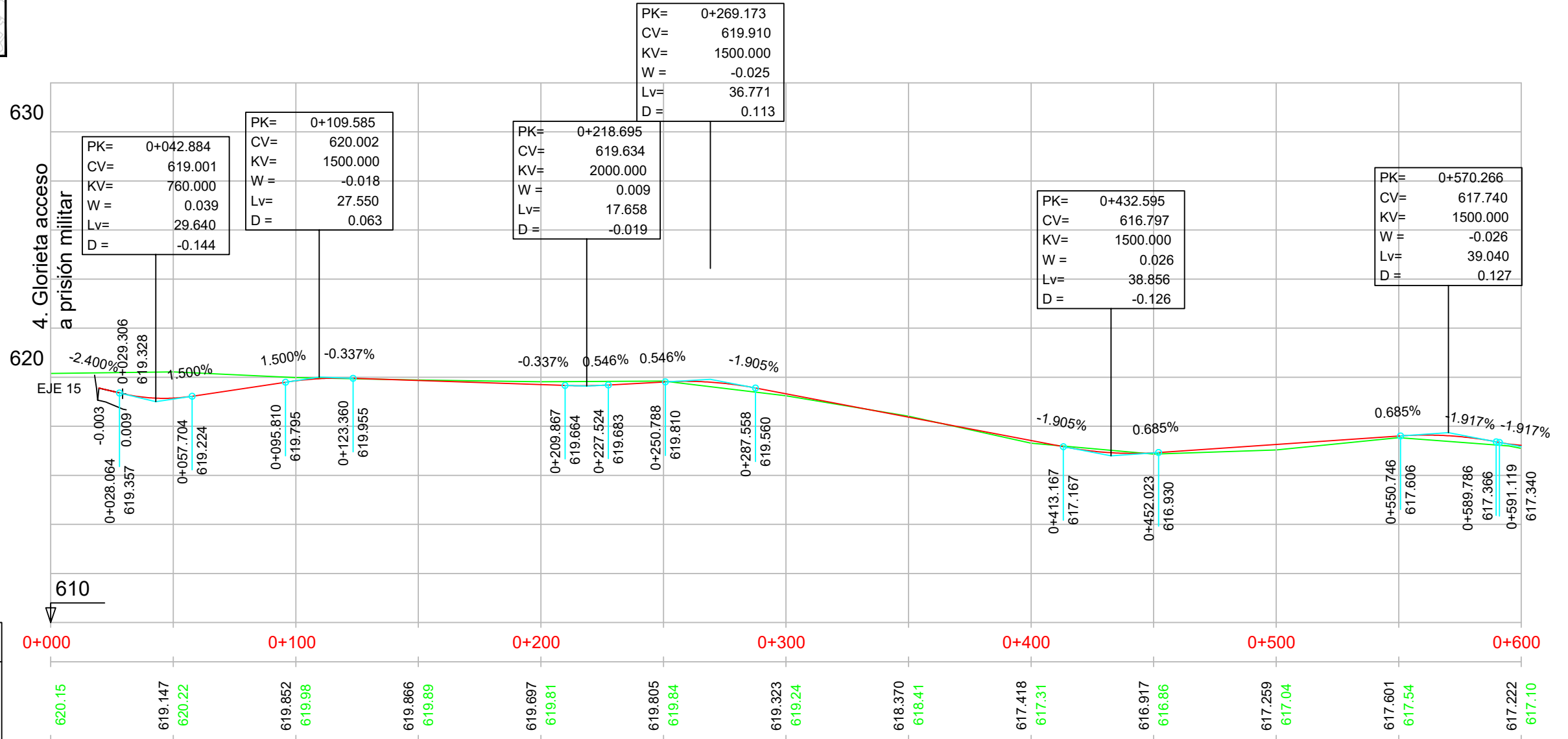
DIAGRAMA DE PERALTES
BD:2.00%
BI:2.00%



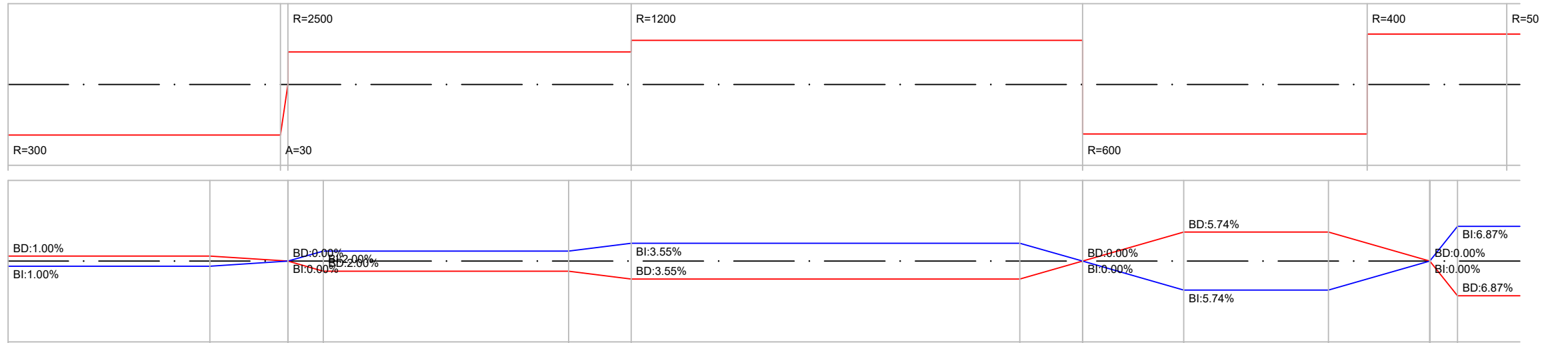
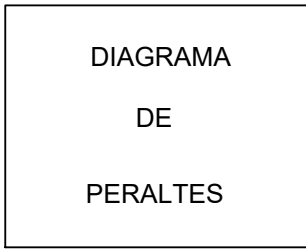
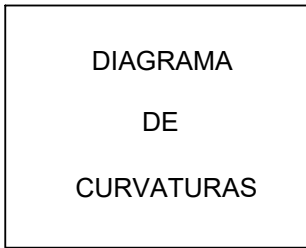


EJE 14  
PK 0+000 - 0+600

**LEYENDA**  
— RASANTE  
— TERRENO



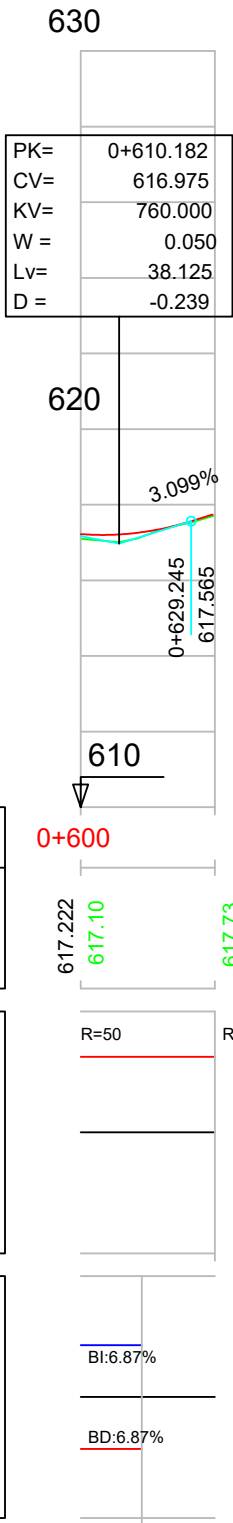
P.K.		
COTAS	RASANTE	TERRENO



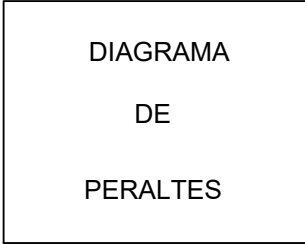
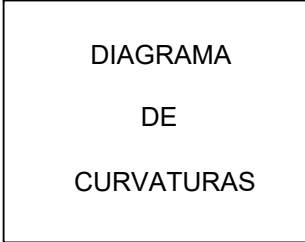


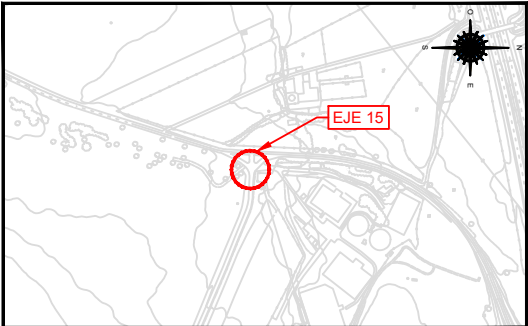
EJE 14  
PK 0+600 - 0+635.55

LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO
	617.222	617.10





LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

PK=	0+022.277	PK=	0+135.375
CV=	620.084	CV=	618.953
KV=	1000.000	KV=	1000.000
W =	-0.025	W =	0.025
Lv=	25.000	Lv=	25.000
D =	0.078	D =	-0.078

EJE 15  
PK 0+000 - 0+188.50

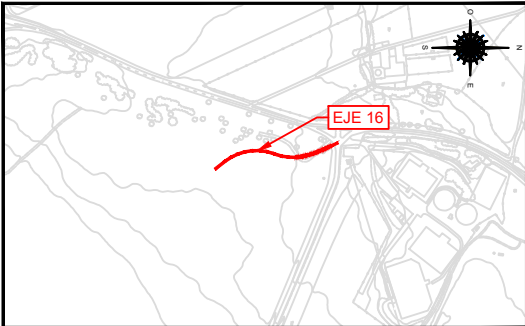
P.K.		
COTAS	RASANTE	TERRENO

619.750	620.46	619.807	620.94	619.307	620.27	619.173	620.07	619.750	620.46
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DIAGRAMA DE CURVATURAS	
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DIAGRAMA DE PERALTES	
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ORGANISMO 	CONSULTOR 	AUTOR DEL ESTUDIO 	ESCALAS H=1:2000 V=1:200	TITULO DE PROYECTO NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	FECHA JUNIO 2023 FICHERO 12-06.dwg	DESIGNACIÓN PERFIL LONGITUDINAL ALTERNATIVA 4	Nº PLANO 12-06 HOJA 22 DE 32
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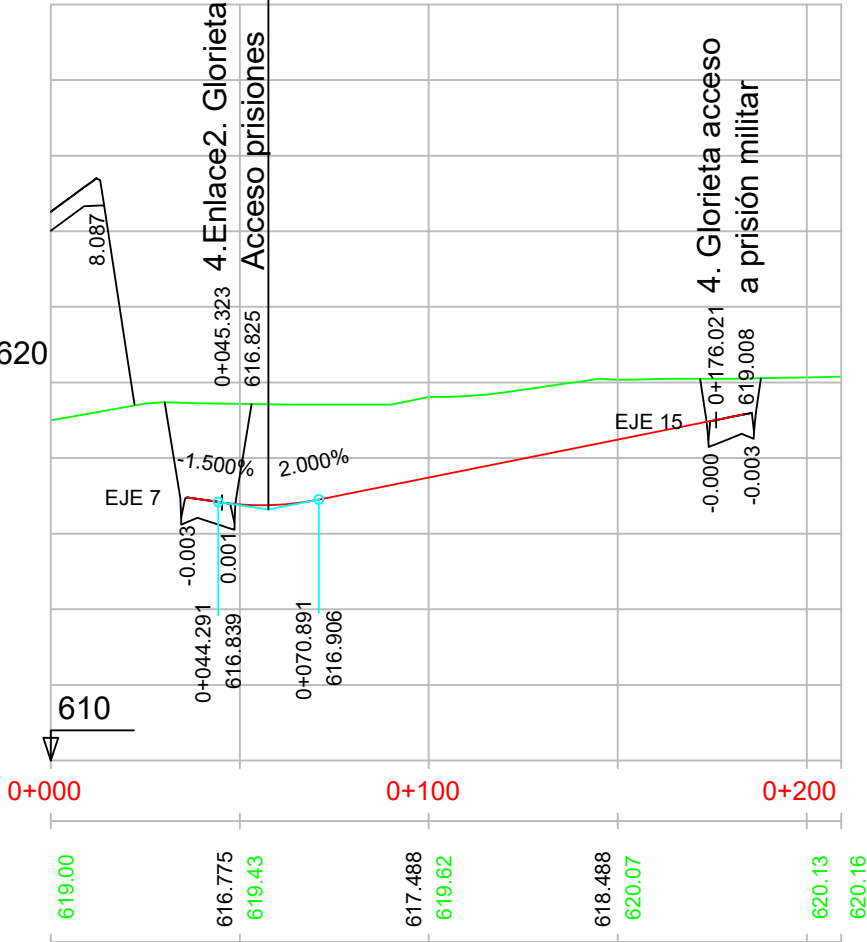


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 16  
PK 0+000 - 0+209.13

PK=	0+057.591
CV=	616.640
KV=	760.000
W =	0.035
Lv=	26.600
D =	-0.116

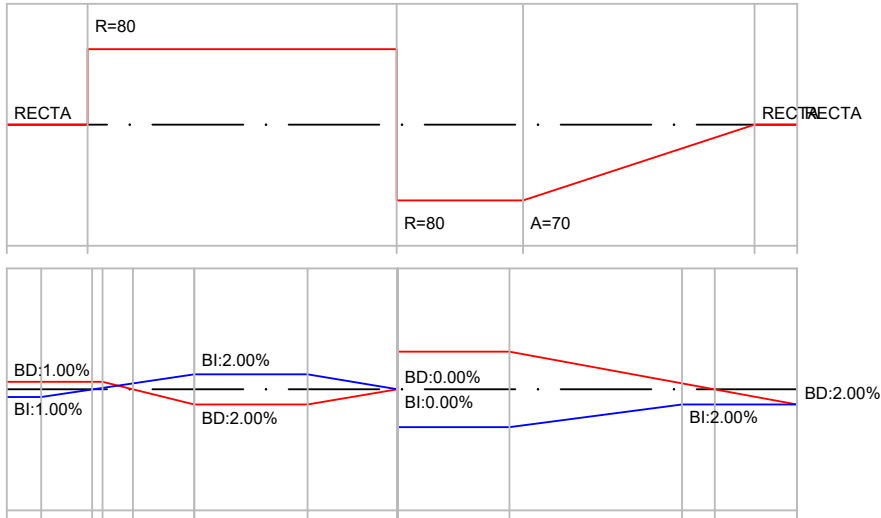
4. TRONCO PRINCIPAL



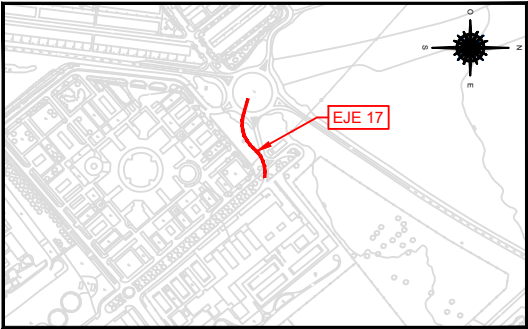
P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS	

DIAGRAMA DE PERALTES	





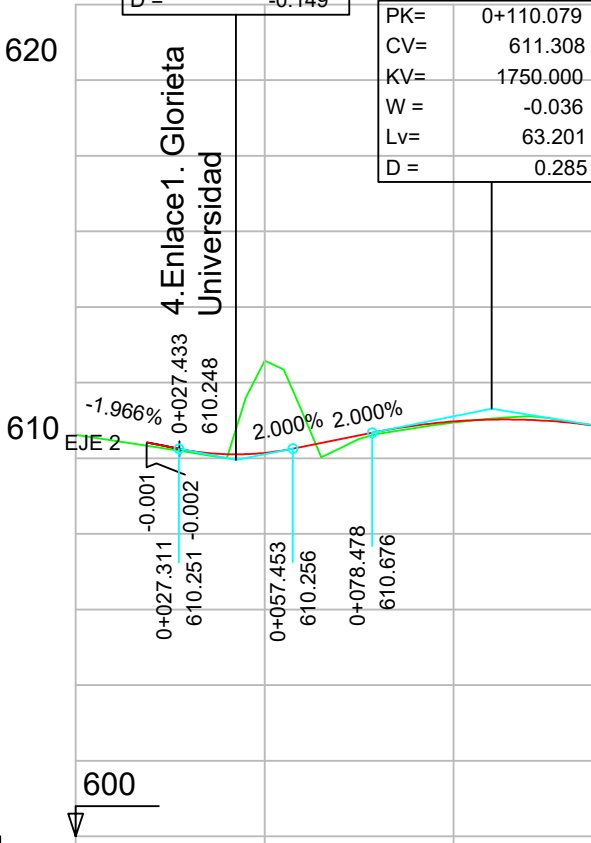


LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

EJE 17  
PK 0+000 - 0+136.94

PK=	0+042.382
CV=	609.954
KV=	760.000
W =	0.040
Lv=	30.141
D =	-0.149

PK=	0+110.079
CV=	611.308
KV=	1750.000
W =	-0.036
Lv=	63.201
D =	0.285



P.K.		
COTAS	RASANTE	TERRENO

0+000						0+100
610.62		610.143	612.58		610.974	610.94
						610.869
						610.87

DIAGRAMA DE CURVATURAS	
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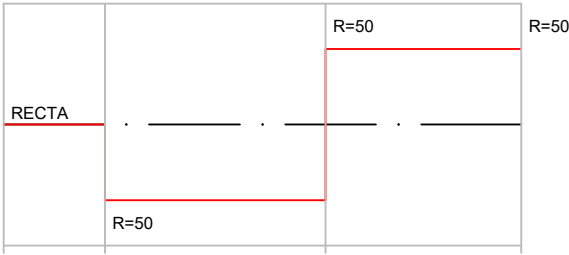
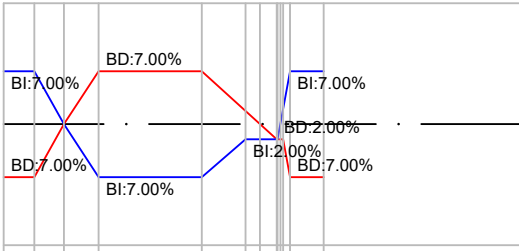
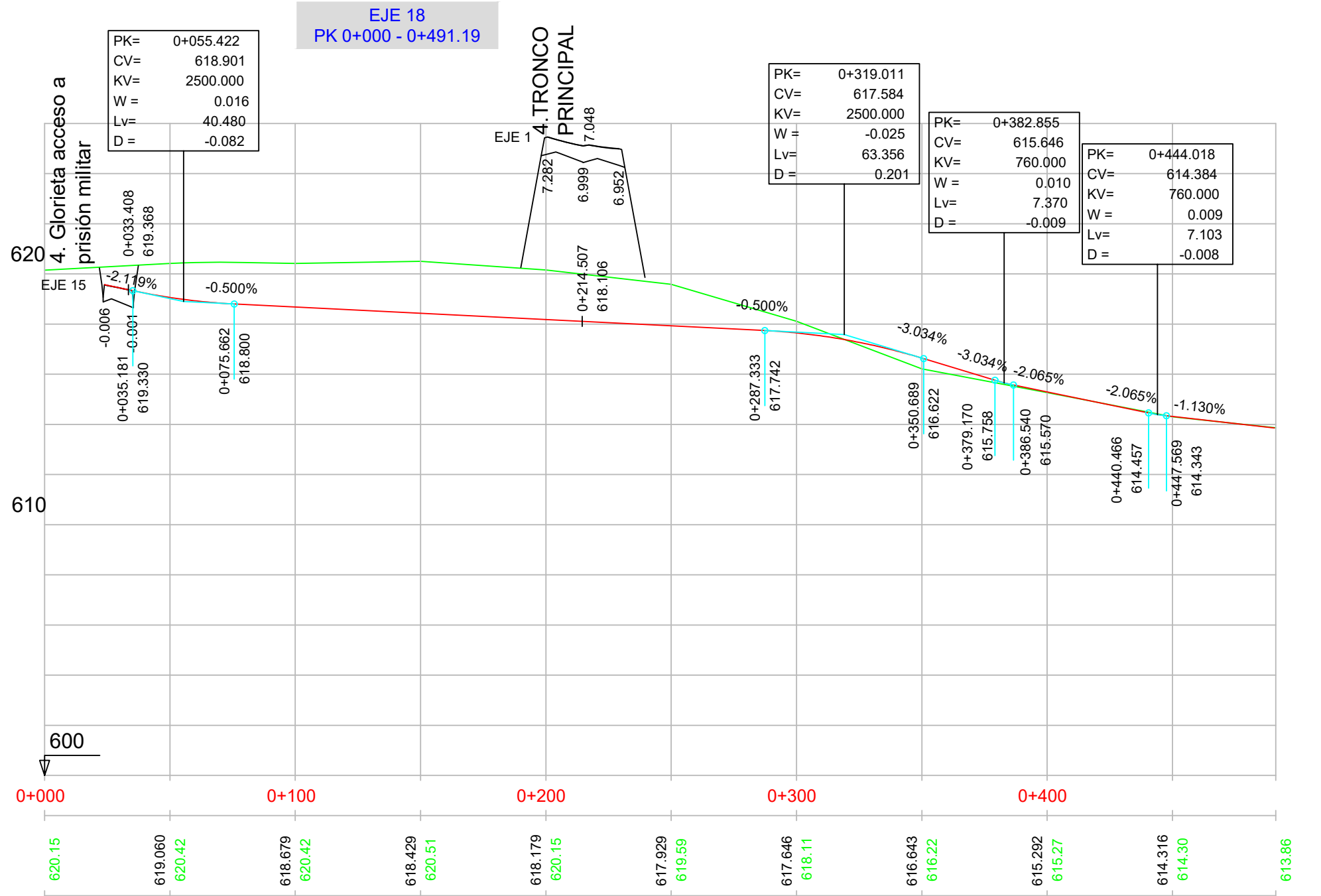


DIAGRAMA DE PERALTES	
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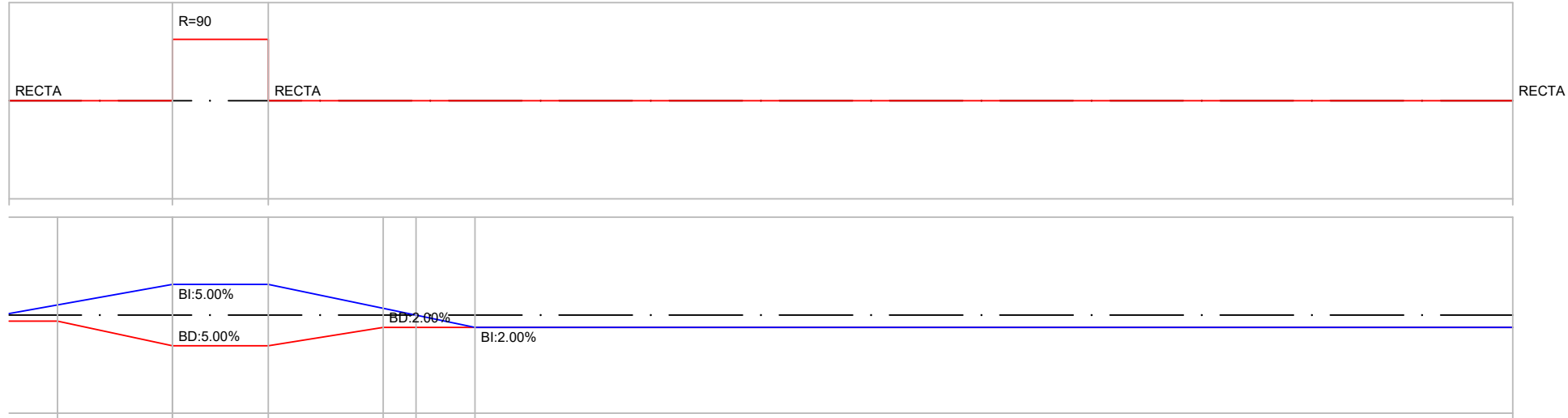
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

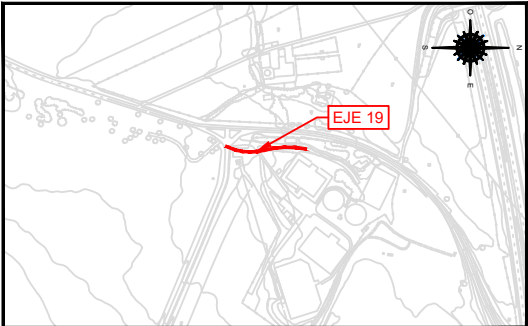


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS
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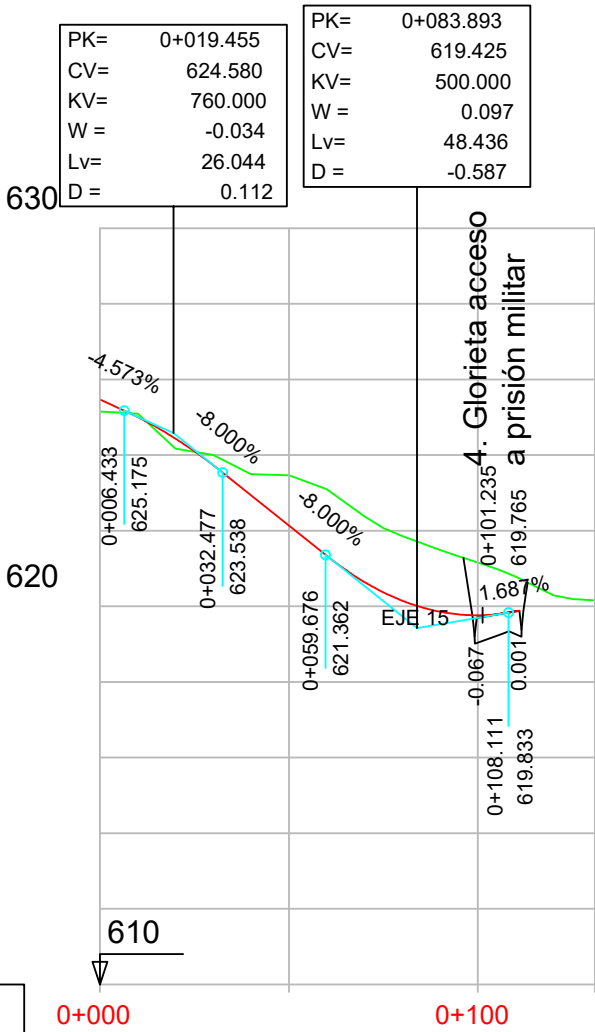
DIAGRAMA DE PERALTES
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EJE 19  
PK 0+000 - 0+130.93

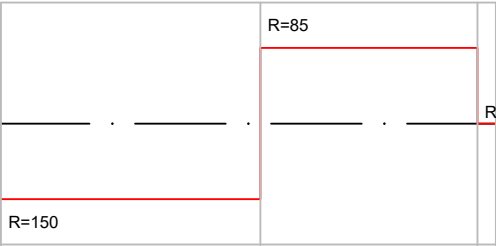
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

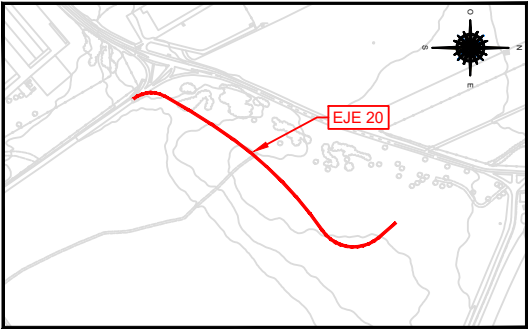


P.K.		
COTAS	RASANTE	TERRENO
	625.15	620.16

DIAGRAMA DE CURVATURAS	
R=150	R=85

DIAGRAMA DE PERALTES	
BI:2.00%	BD:2.00%



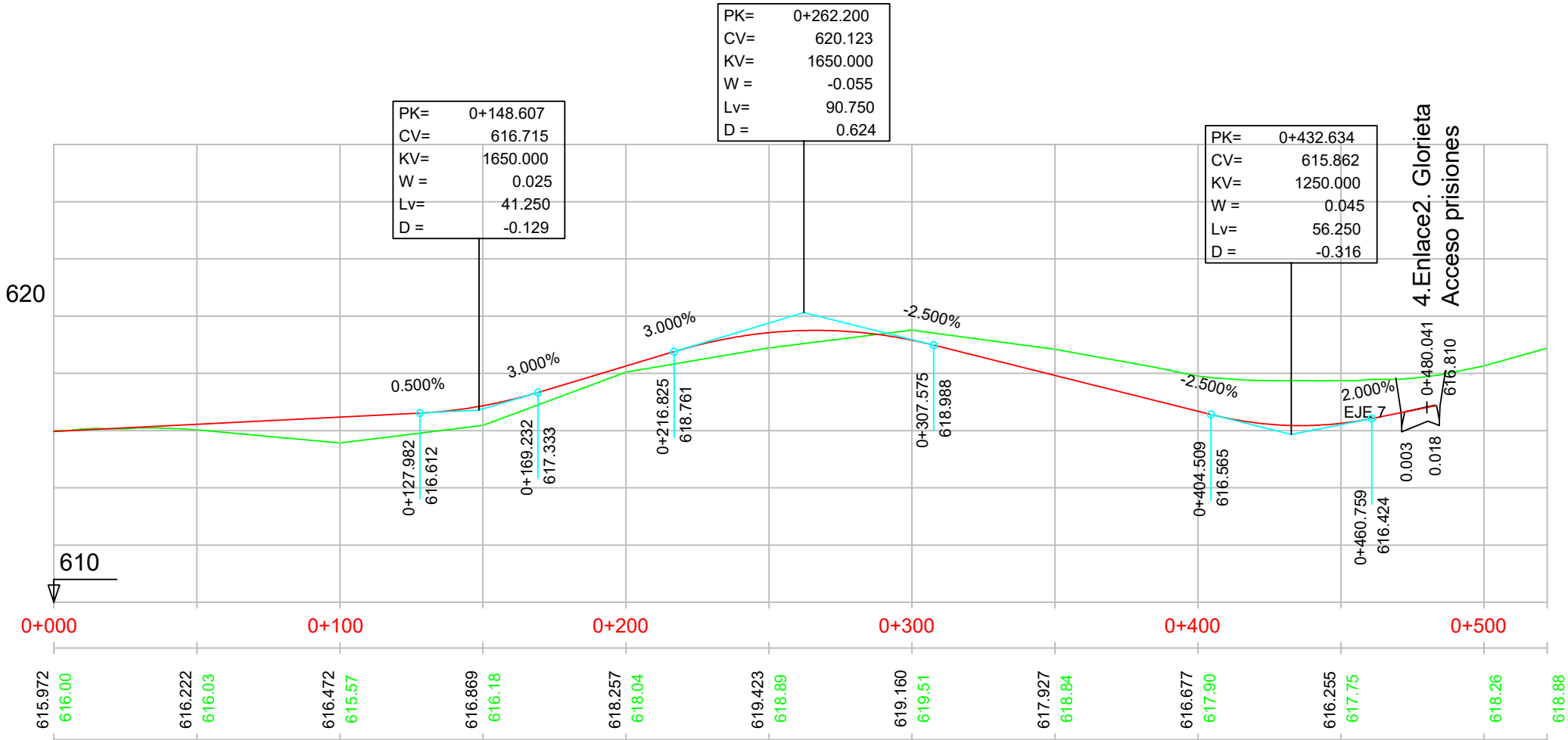


EJE 20  
PK 0+000 - 0+522.05

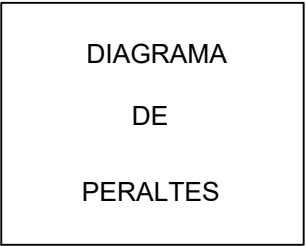
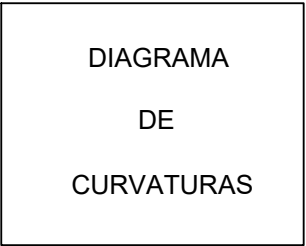
LEYENDA

RASANTE

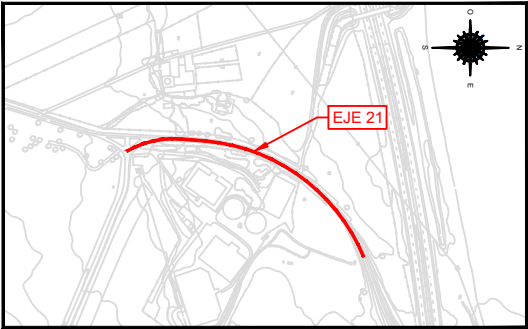
TERRENO



P.K.		
COTAS	RASANTE	TERRENO

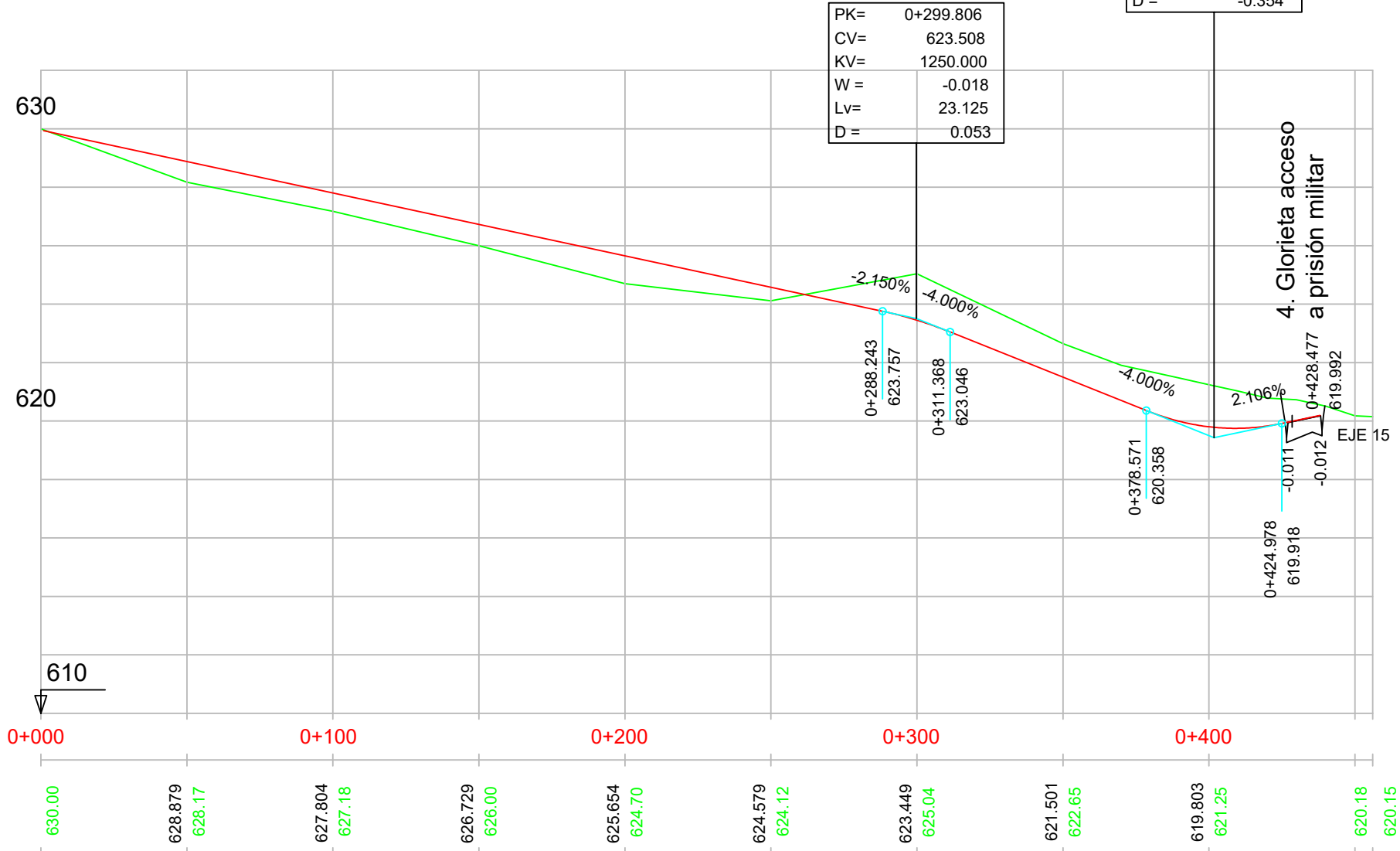






EJE 21  
PK 0+000 - 0+456.04

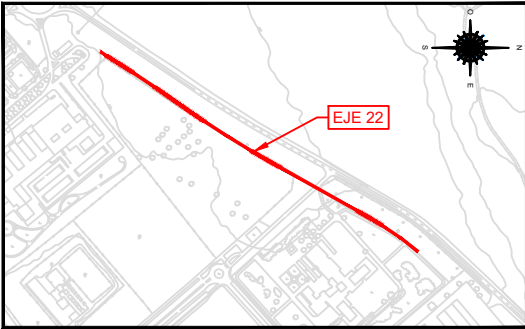
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



P.K.		
COTAS	RASANTE	TERRENO

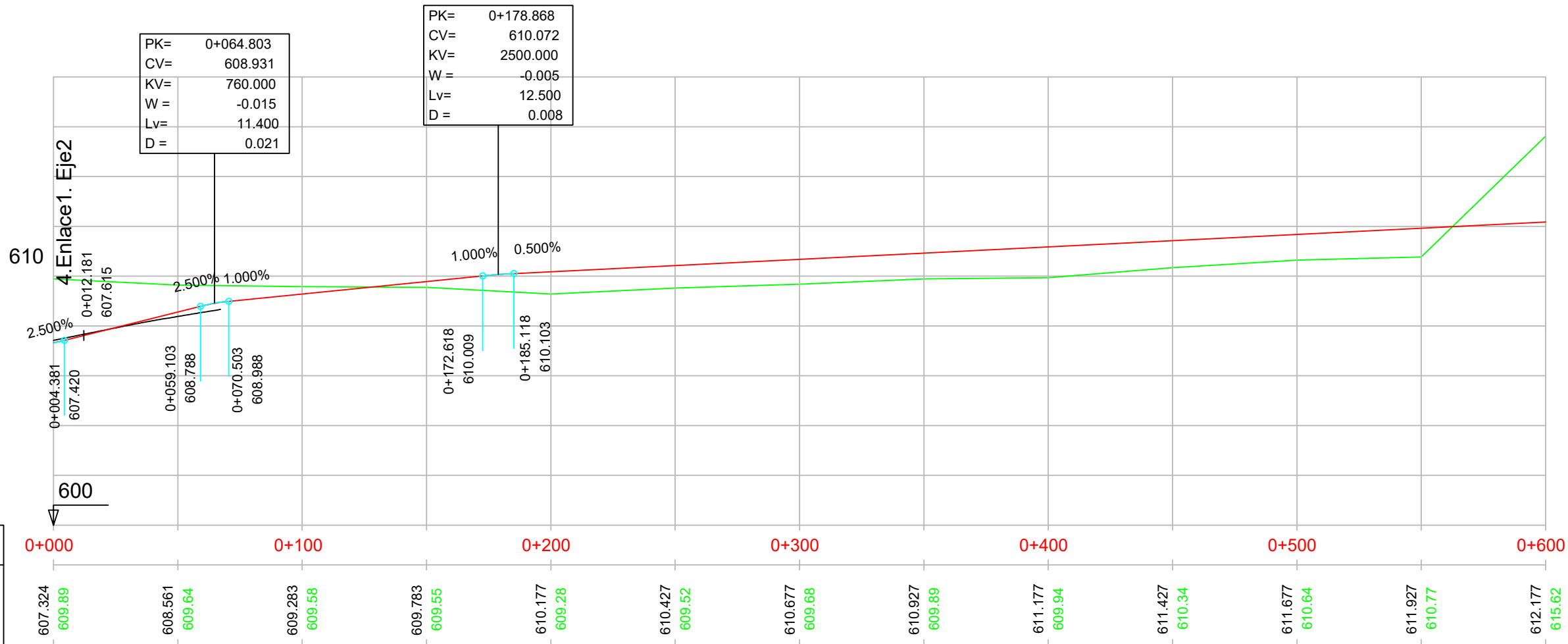
DIAGRAMA DE CURVATURAS	

DIAGRAMA DE PERALTES	

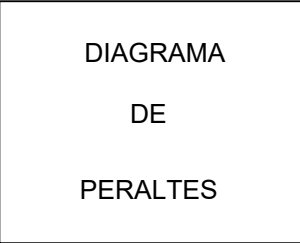
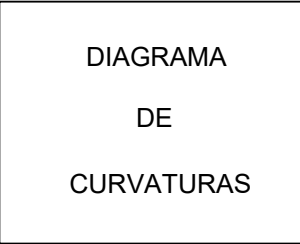


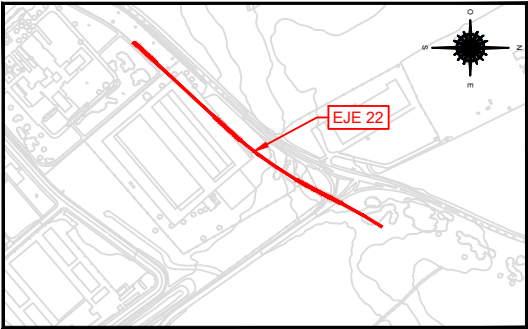
EJE 22  
PK 0+000 - 0+600

**LEYENDA**  
— RASANTE  
— TERRENO



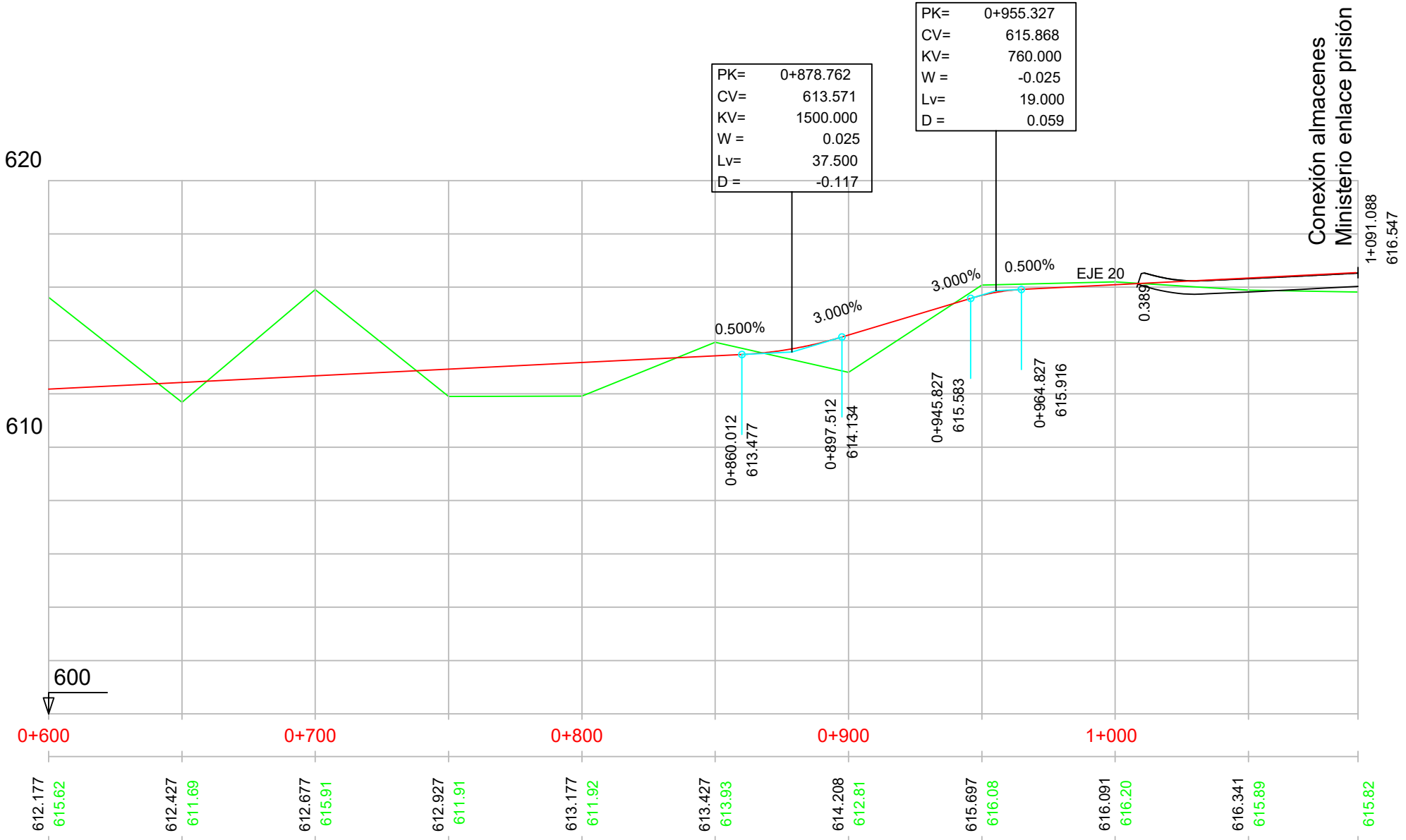
P.K.	RASANTE	TERRENO
COTAS		





EJE 22  
PK 0+600 - 1+091.09

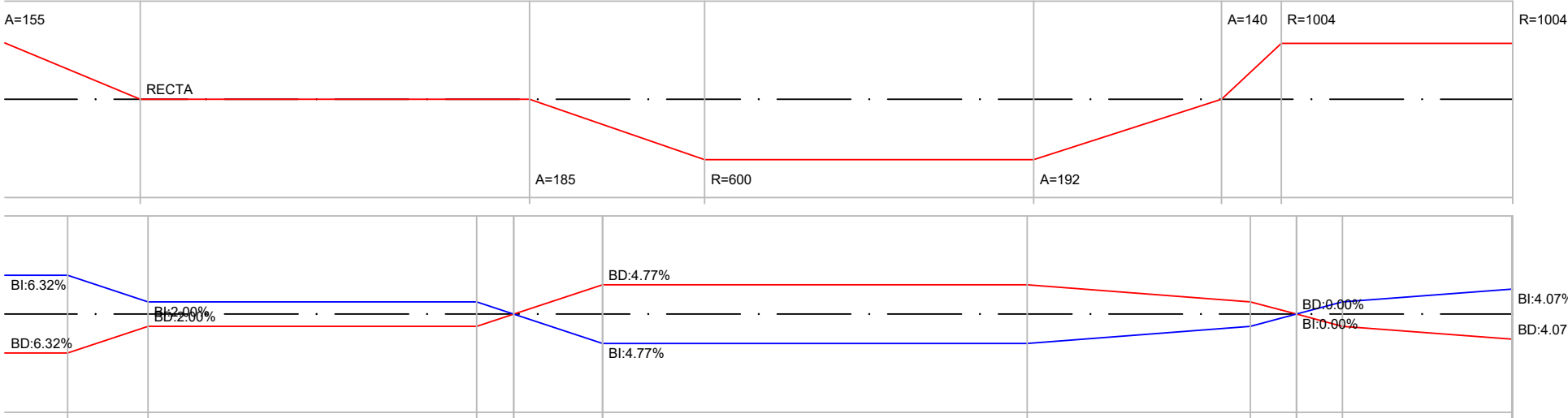
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO

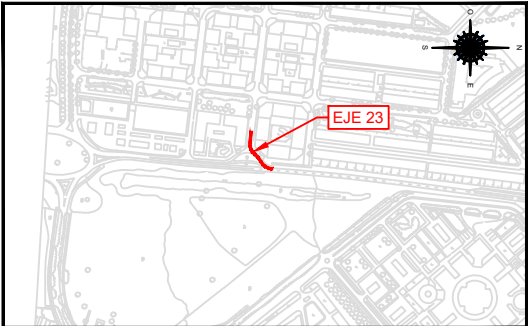


P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA  
DE  
CURVATURAS

DIAGRAMA  
DE  
PERALTES





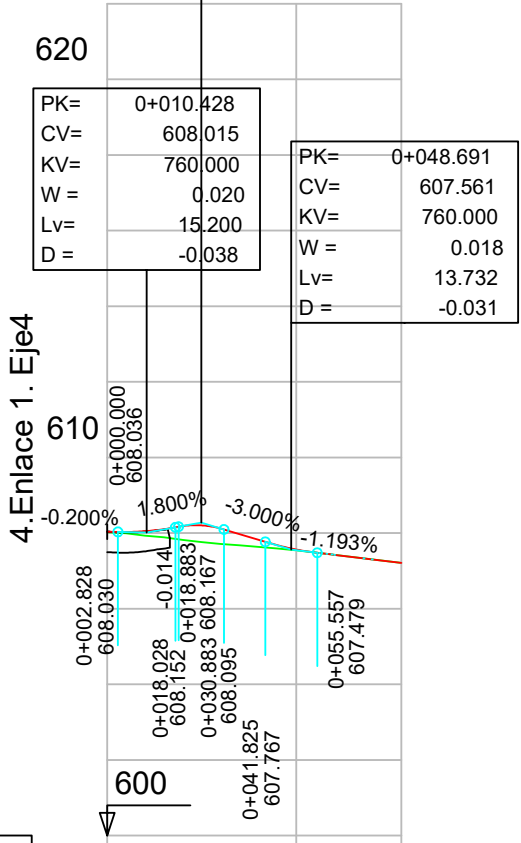
LEYENDA

RASANTE

TERRENO

EJE 23  
PK 0+000 - 0+077.78

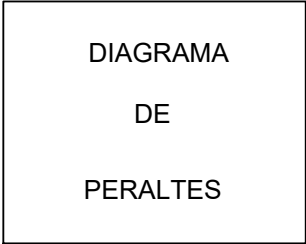
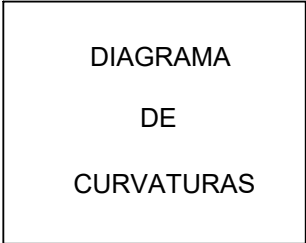
PK= 0+024.883  
CV= 608.275  
KV= 250.000  
W = -0.048  
Lv= 12.000  
D = 0.072



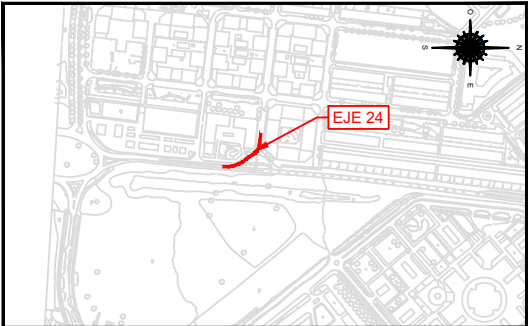
PK= 0+010.428  
CV= 608.015  
KV= 760.000  
W = 0.020  
Lv= 15.200  
D = -0.038

PK= 0+048.691  
CV= 607.561  
KV= 760.000  
W = 0.018  
Lv= 13.732  
D = -0.031

P.K.	COTAS	
	RASANTE	TERRENO
0+000	608.036	608.02
0+077.78	607.212	607.21

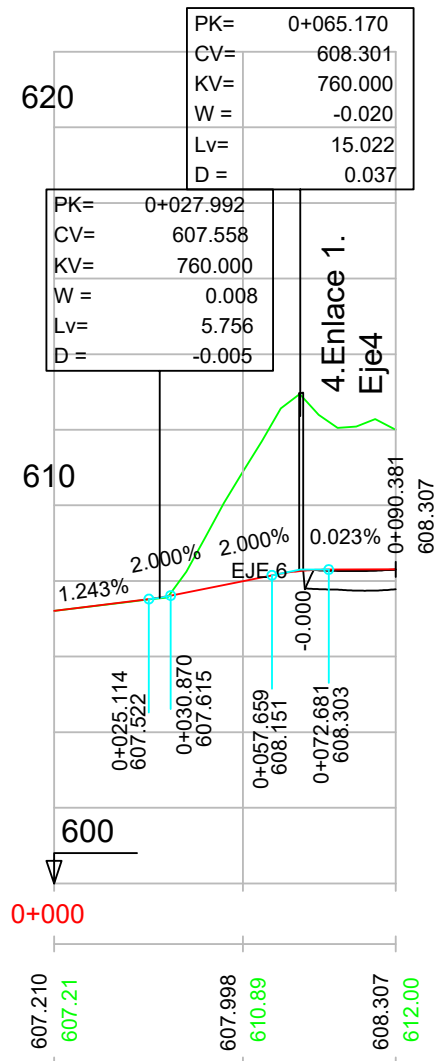






EJE 24  
PK 0+000 - 0+090.38

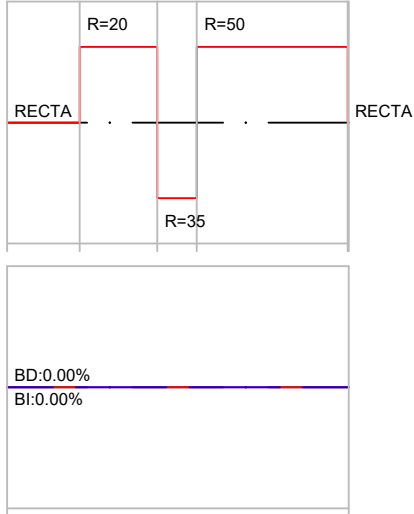
LEYENDA	
<span style="color: red;">—</span>	RASANTE
<span style="color: green;">—</span>	TERRENO



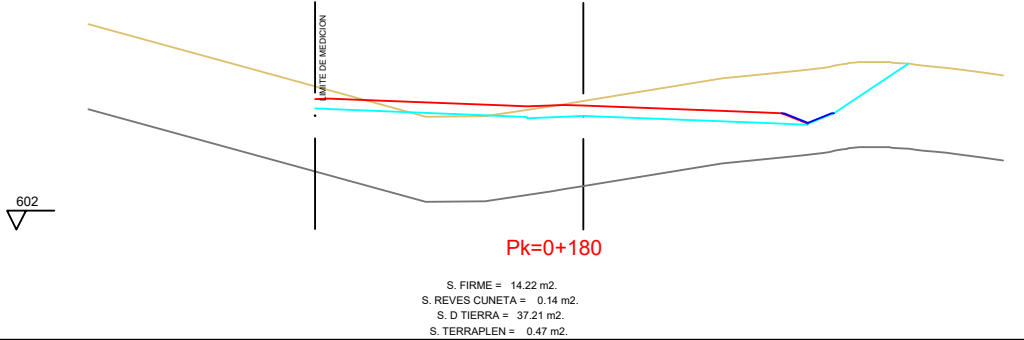
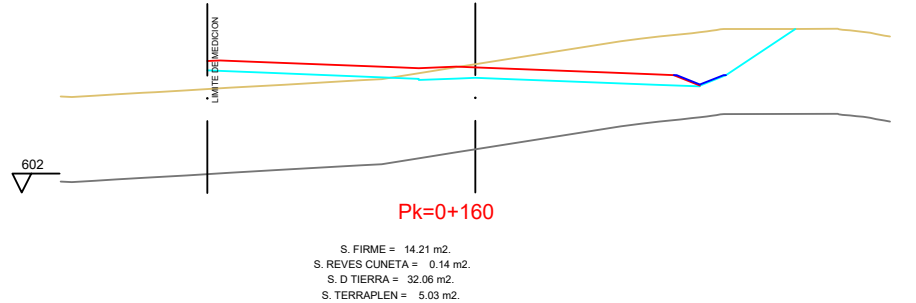
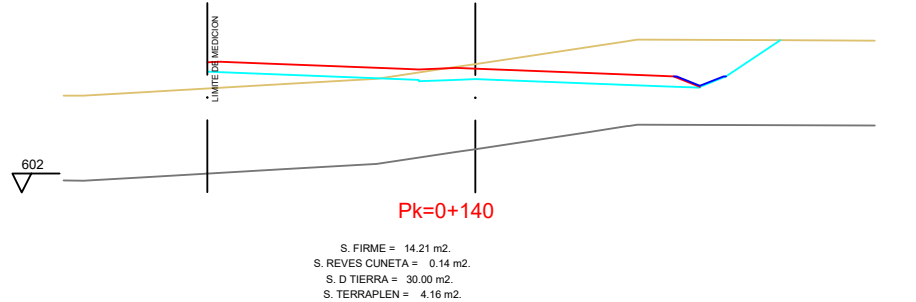
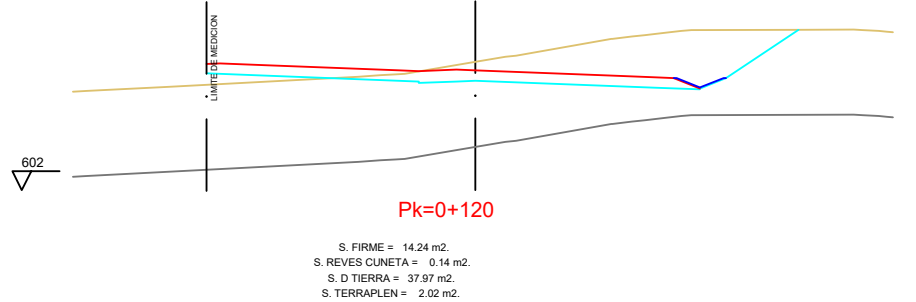
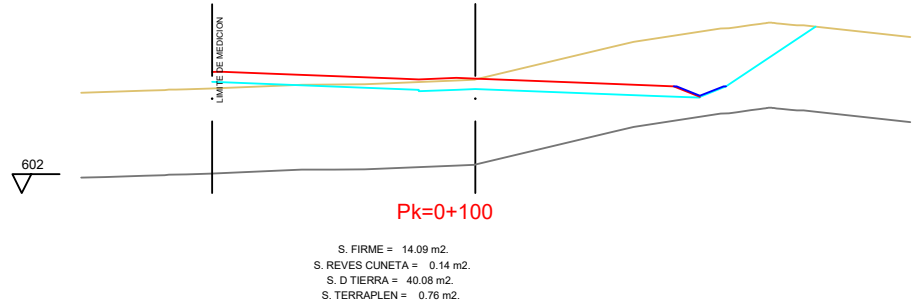
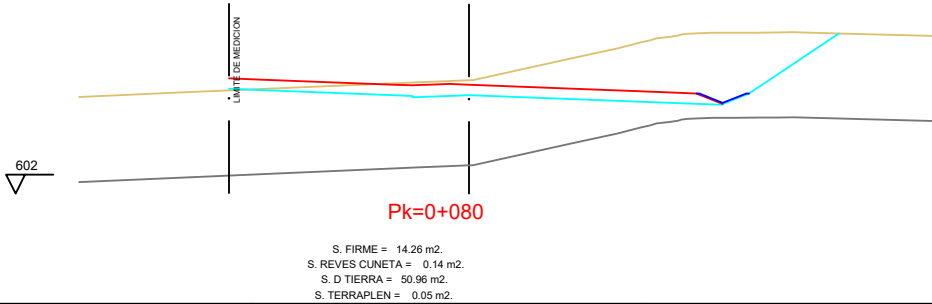
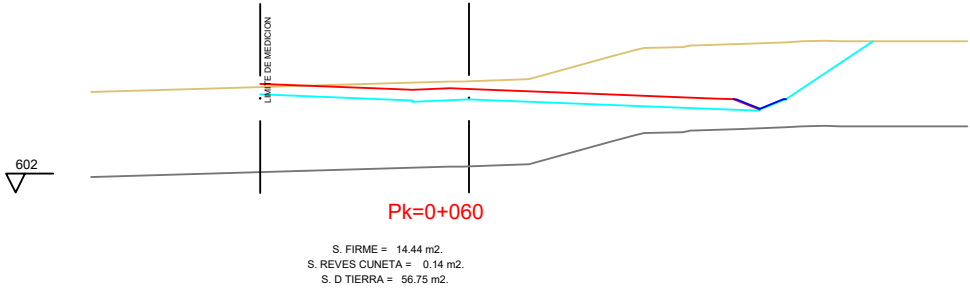
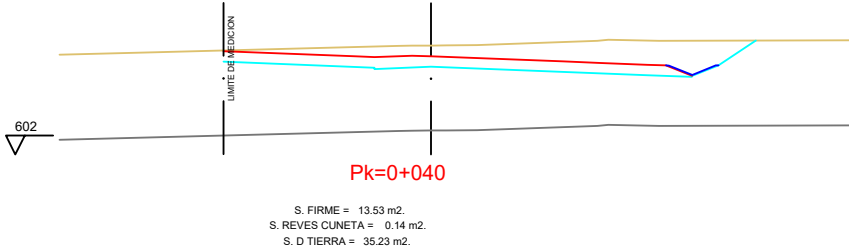
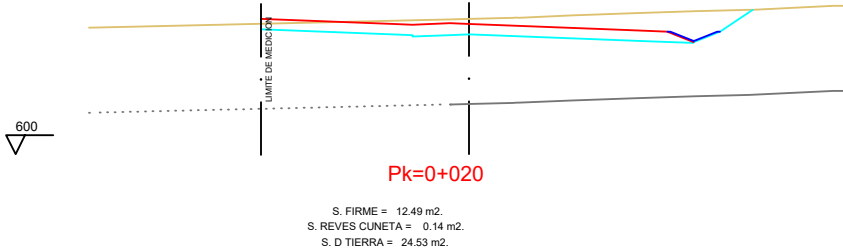
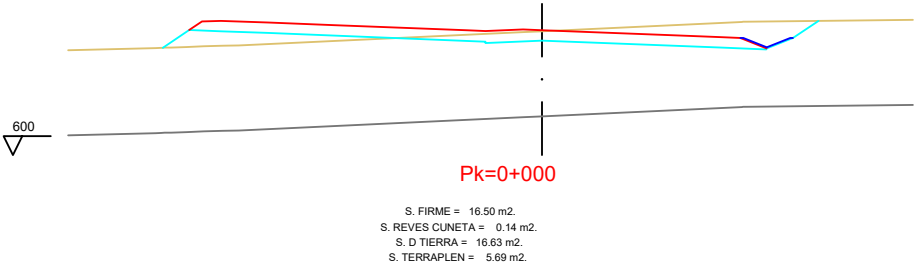
P.K.		
COTAS	RASANTE	TERRENO

DIAGRAMA DE CURVATURAS	
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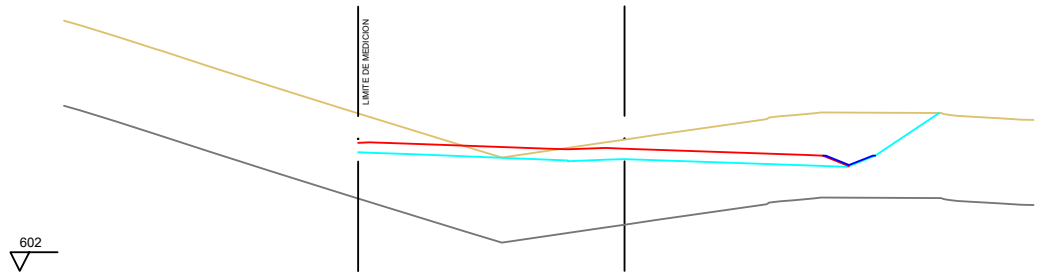
DIAGRAMA DE PERALTES	
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EJE 1  
PK 0+000 - 0+180

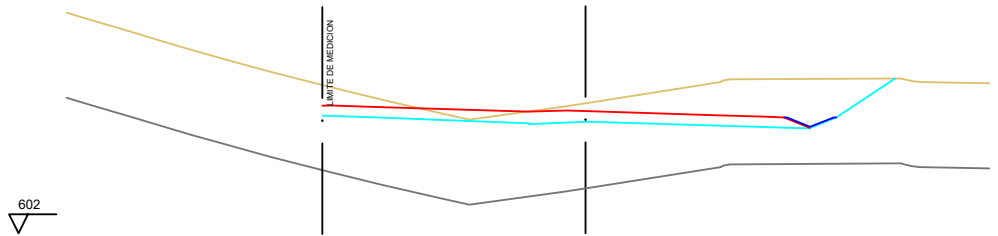


EJE 1  
PK 0+200 - 0+380



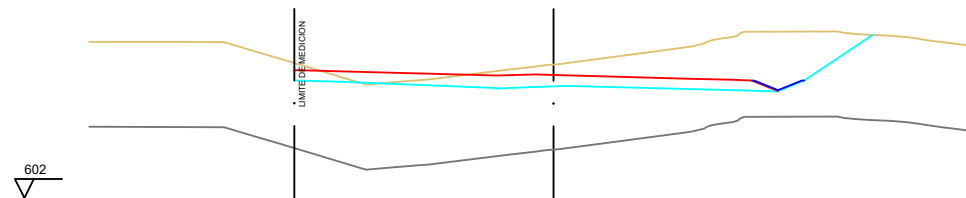
Pk=0+200

S. FIRME = 14.27 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 43.54 m2.



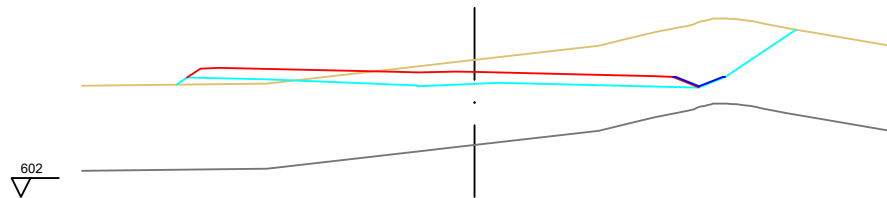
Pk=0+220

S. FIRME = 14.34 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 39.99 m2.



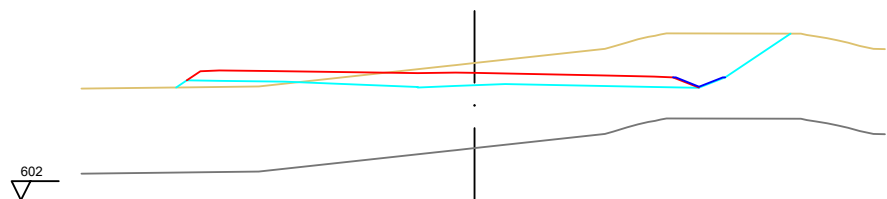
Pk=0+240

S. FIRME = 14.47 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 41.24 m2.  
S. TERRAPLEN = 0.06 m2.



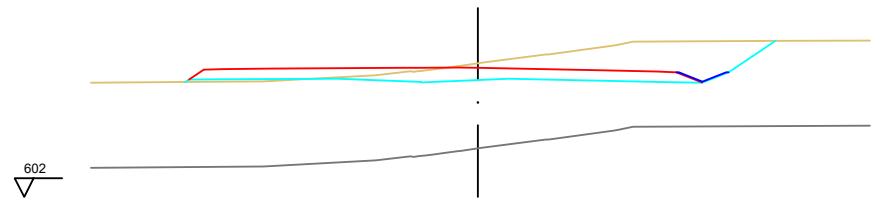
Pk=0+260

S. FIRME = 15.29 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 42.83 m2.  
S. TERRAPLEN = 1.51 m2.



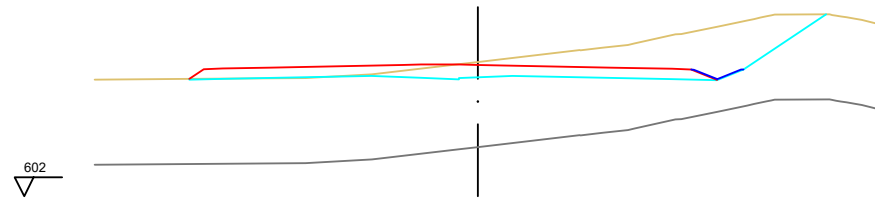
Pk=0+280

S. FIRME = 15.49 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 37.21 m2.  
S. TERRAPLEN = 1.63 m2.



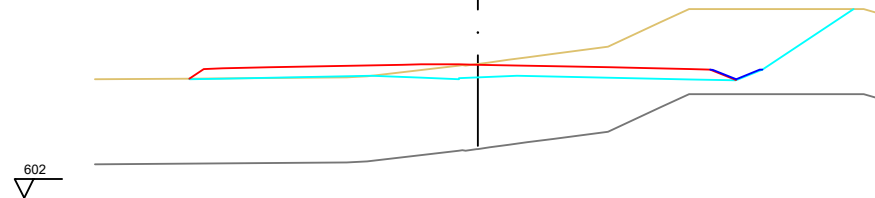
Pk=0+300

S. FIRME = 15.33 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 27.85 m2.  
S. TERRAPLEN = 0.66 m2.



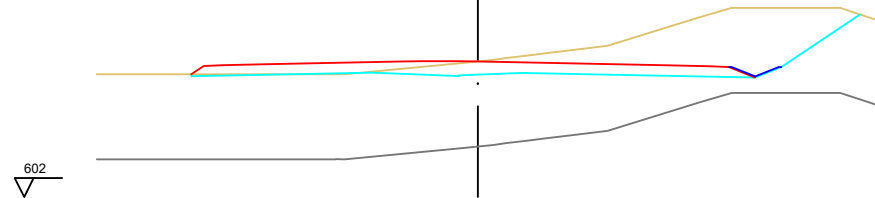
Pk=0+320

S. FIRME = 15.59 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 33.57 m2.  
S. TERRAPLEN = 0.10 m2.



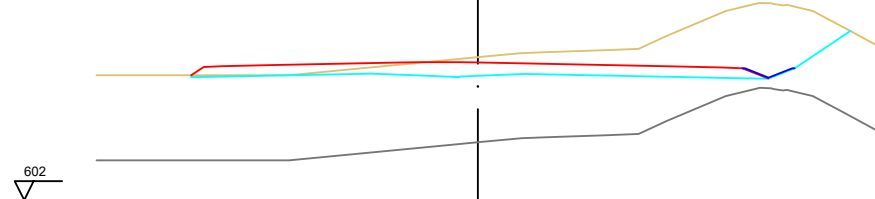
Pk=0+340

S. FIRME = 16.19 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 43.70 m2.  
S. TERRAPLEN = 0.21 m2.



Pk=0+360

S. FIRME = 16.78 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 43.35 m2.  
S. TERRAPLEN = 0.10 m2.



Pk=0+380

S. FIRME = 17.20 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 45.44 m2.

ORGANISMO



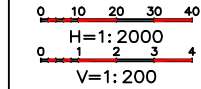
CONSULTOR



AUTOR DEL ESTUDIO

JAIME ALONSO HERAS  
INGENIERO DE CAMINOS, CANALES Y PUERTOS

ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

12-07.dwg

DESIGNACIÓN

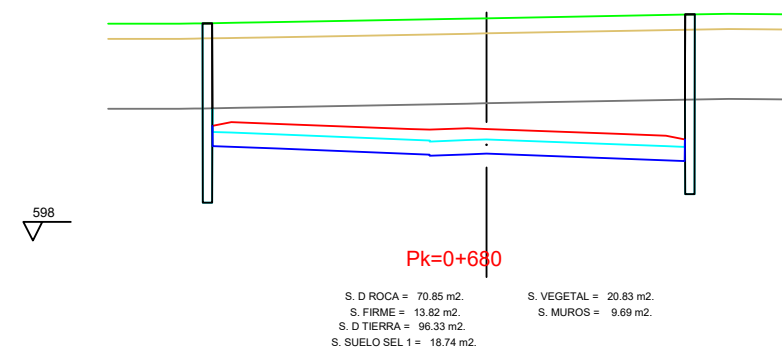
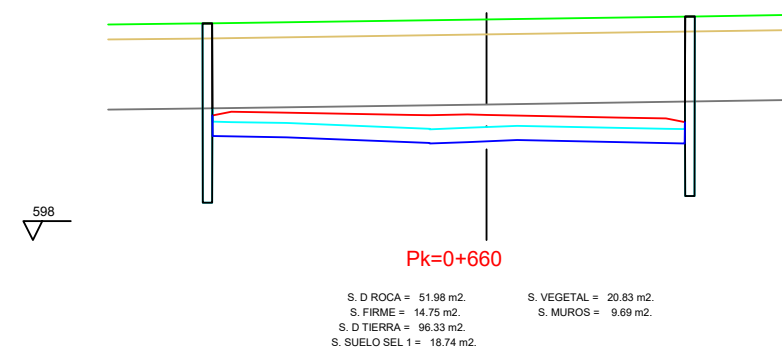
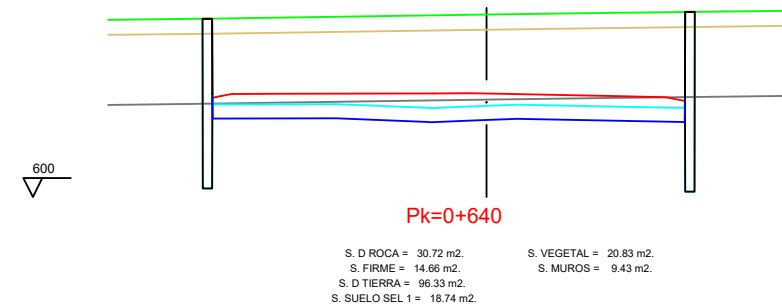
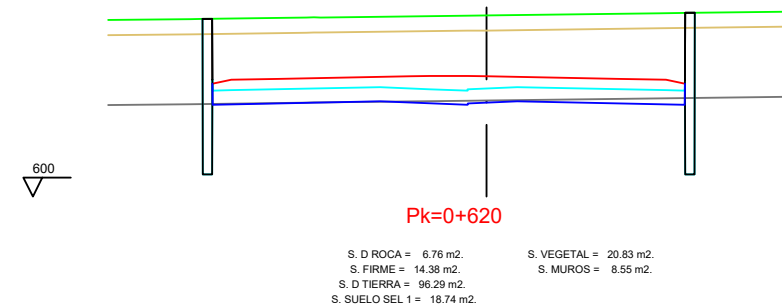
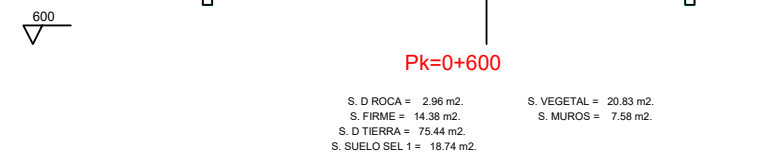
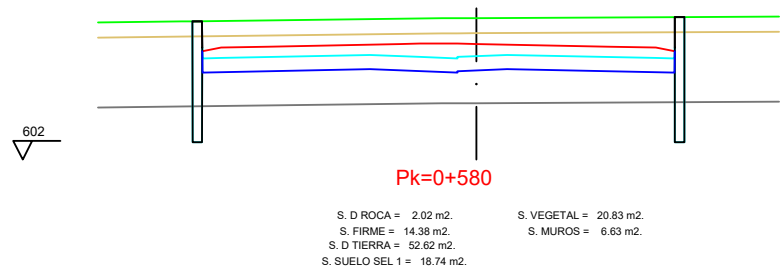
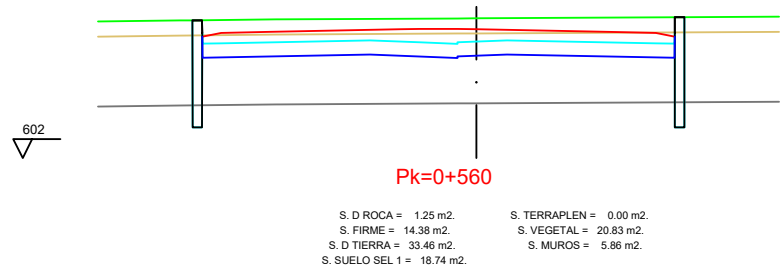
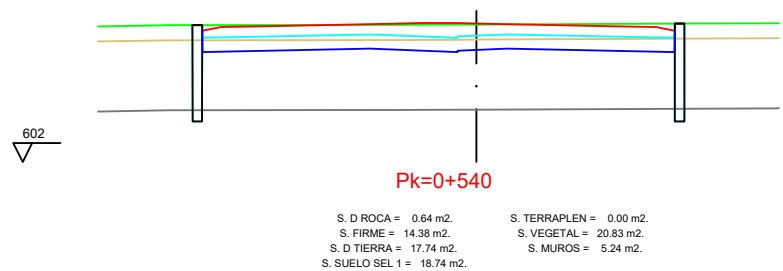
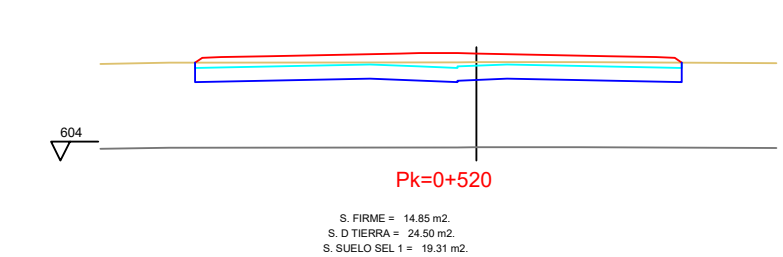
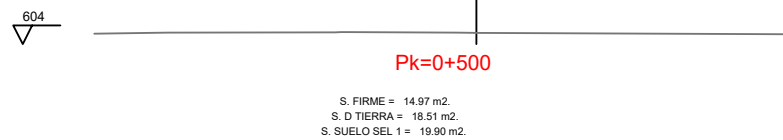
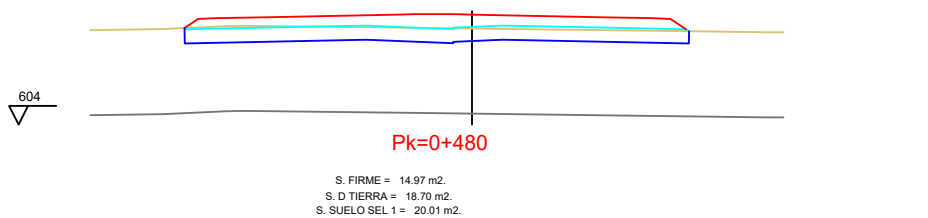
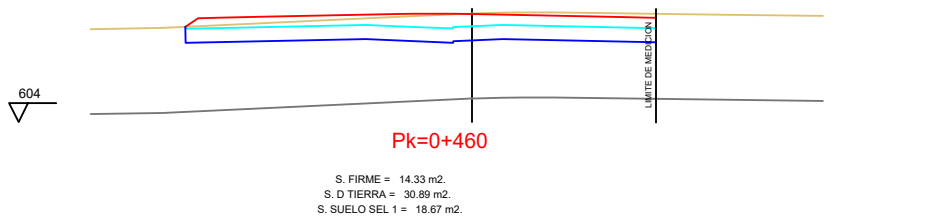
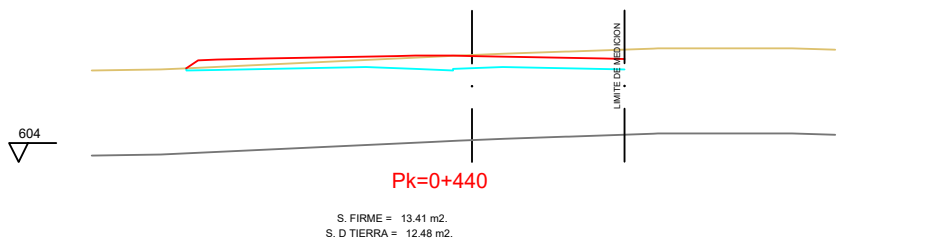
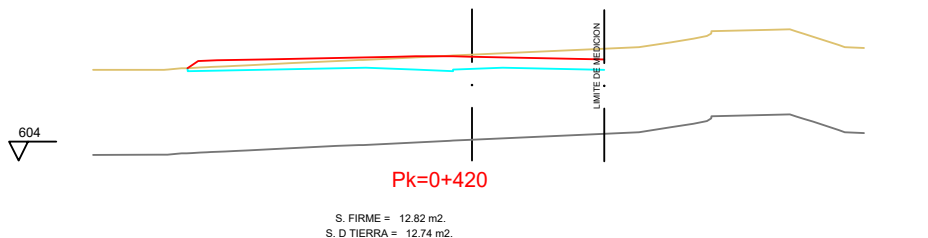
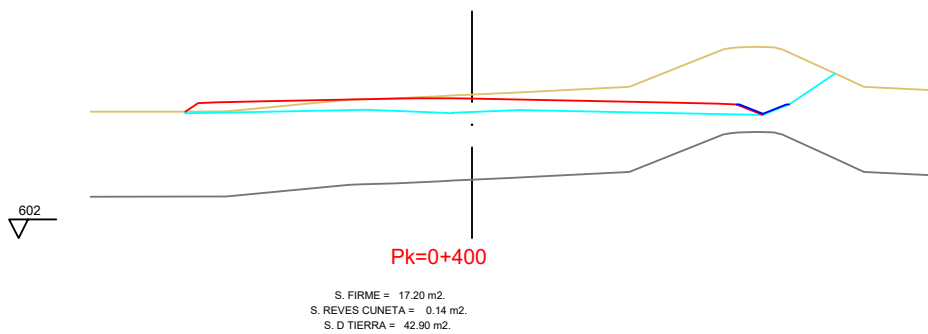
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

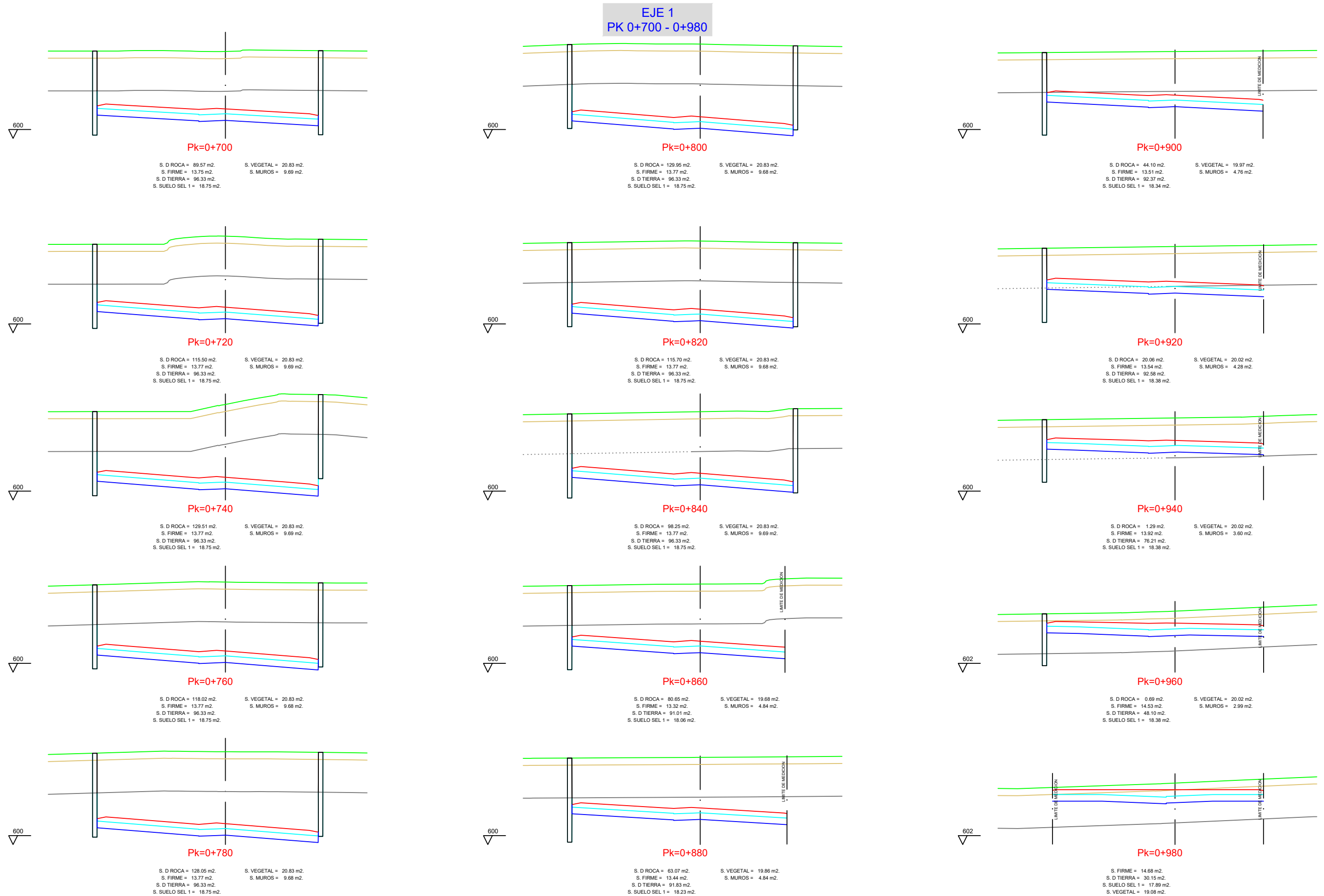
12-07

HOJA 2 DE 50

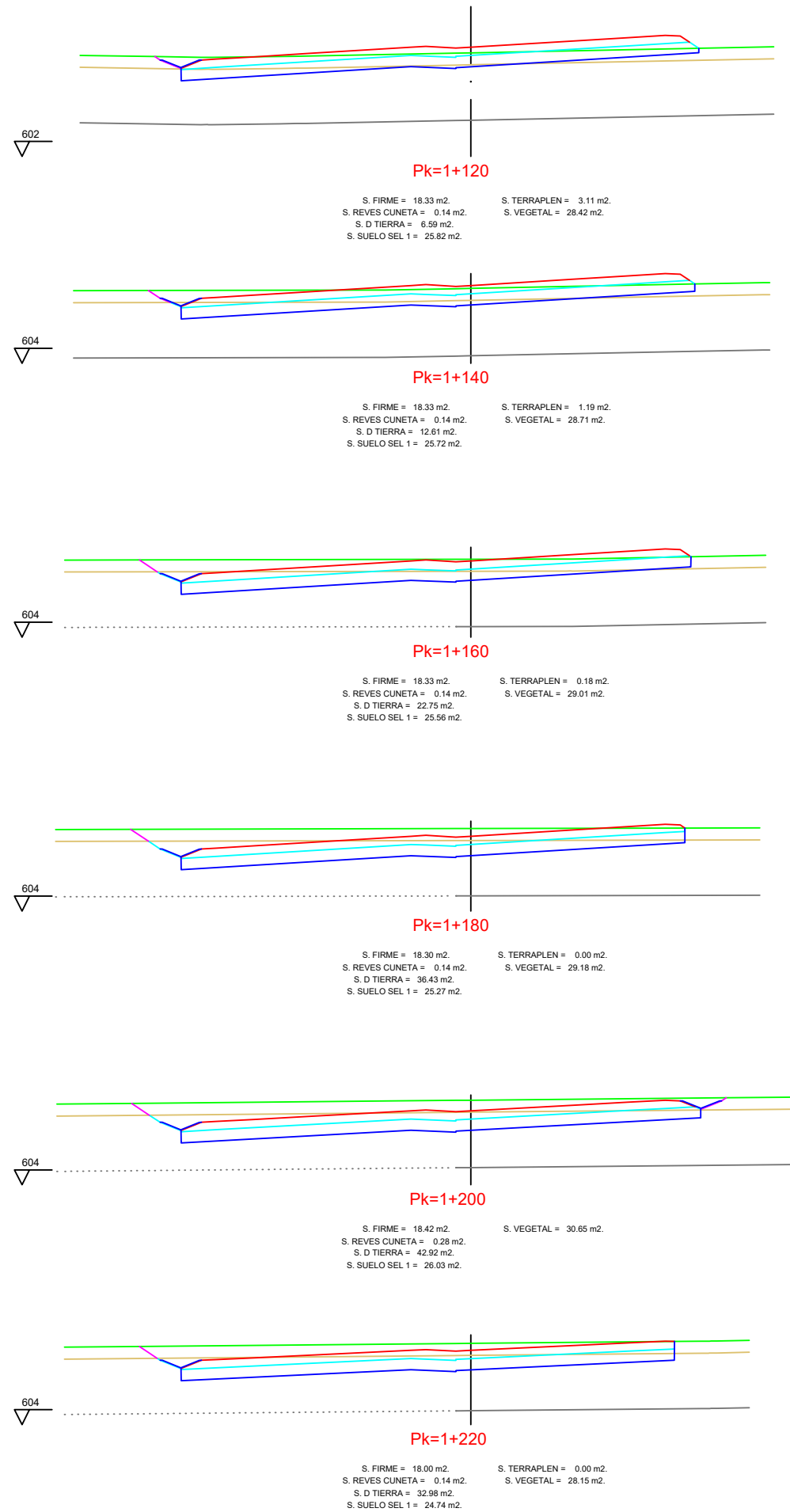
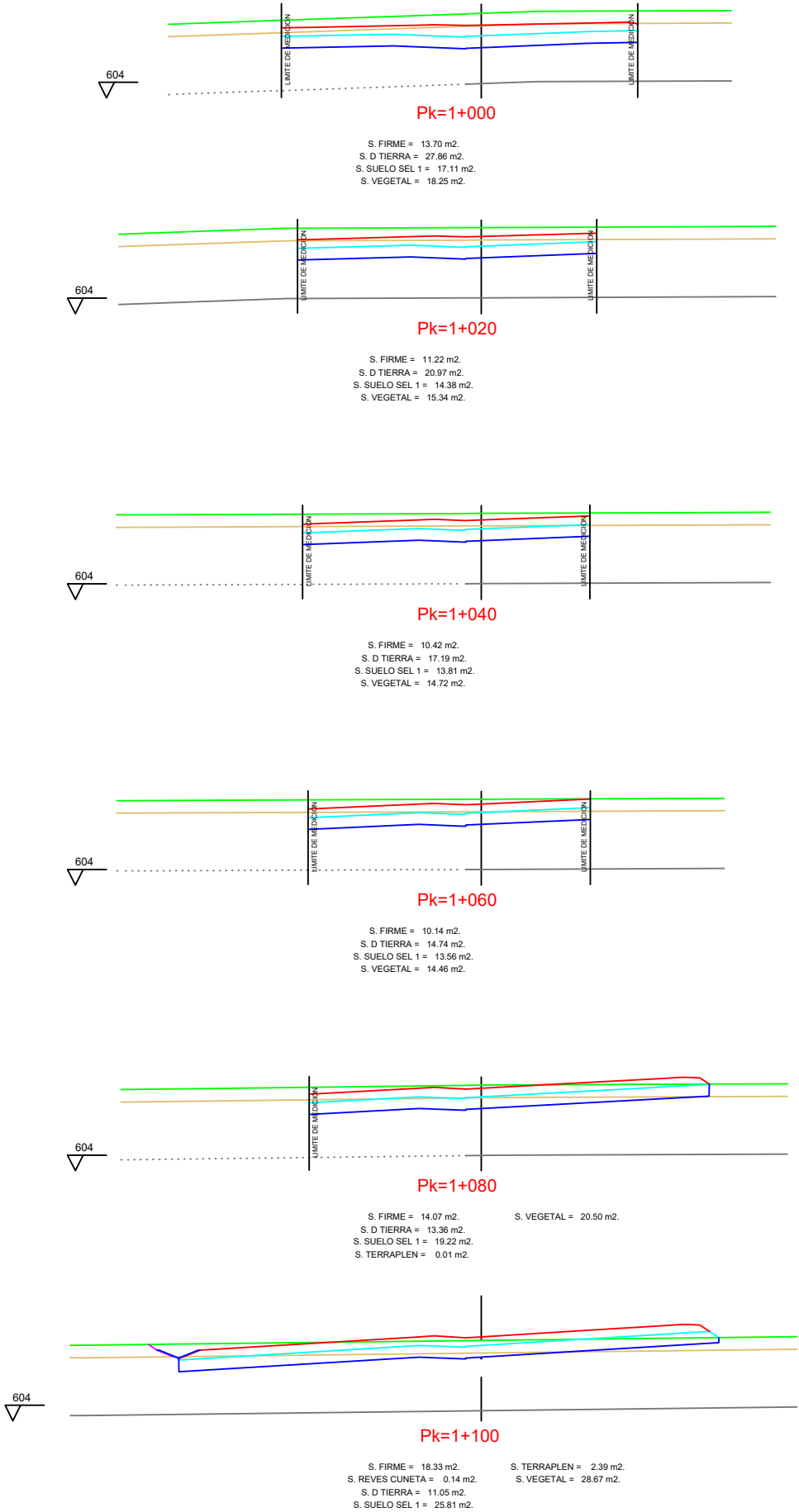
EJE 1  
PK 0+400 - 0+680



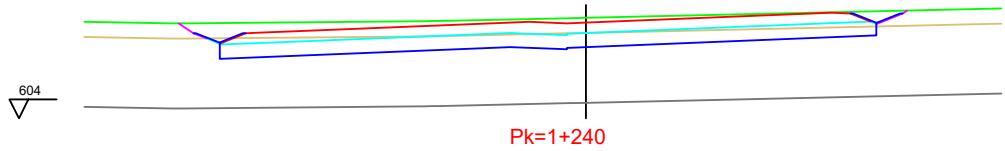




EJE 1  
PK 1+000 - 1+220

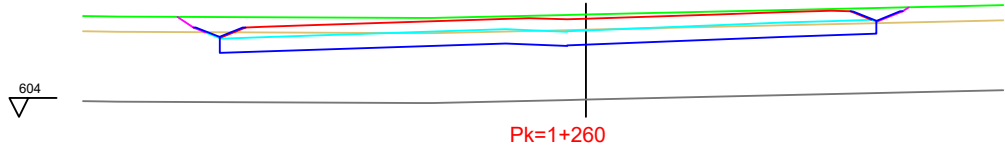


EJE 1  
PK 1+240 - 1+460



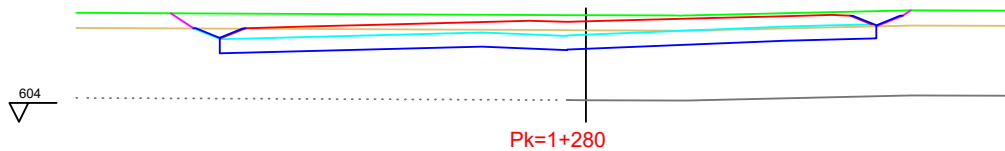
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S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 25.66 m2.  
S. SUELO SEL 1 = 26.04 m2.

S. VEGETAL = 29.60 m2.



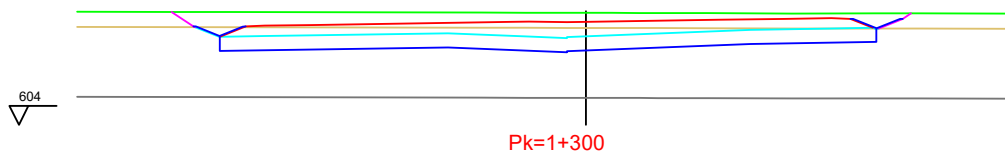
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S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 25.96 m2.  
S. SUELO SEL 1 = 26.04 m2.

S. VEGETAL = 29.77 m2.



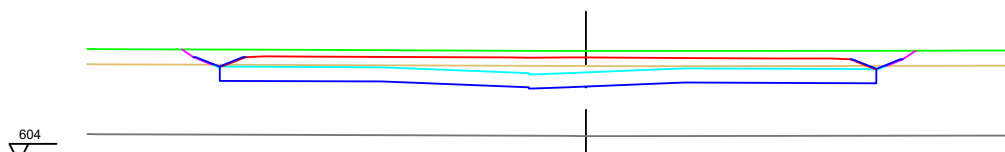
S. FIRME = 19.73 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 32.36 m2.  
S. SUELO SEL 1 = 26.05 m2.

S. VEGETAL = 30.19 m2.



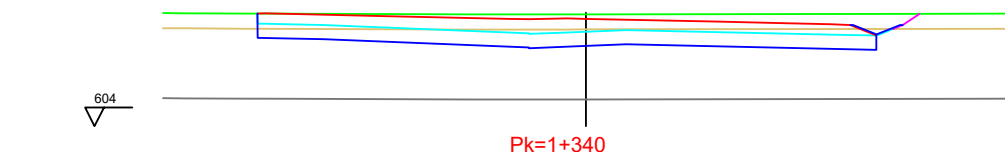
S. FIRME = 20.40 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 36.66 m2.  
S. SUELO SEL 1 = 26.05 m2.

S. VEGETAL = 30.21 m2.



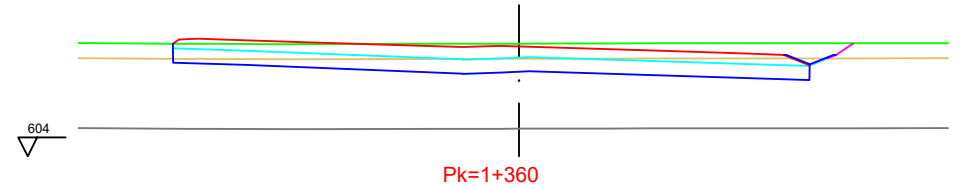
S. FIRME = 20.77 m2.  
S. REVES CUNETAS = 0.28 m2.  
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S. SUELO SEL 1 = 26.05 m2.

S. VEGETAL = 29.97 m2.



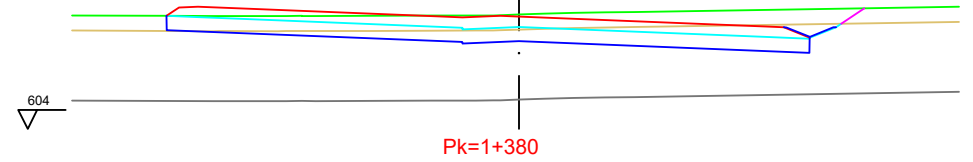
S. FIRME = 19.41 m2.  
S. REVES CUNETAS = 0.14 m2.  
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S. SUELO SEL 1 = 24.56 m2.

S. TERRAPLEN = 0.00 m2.  
S. VEGETAL = 27.52 m2.



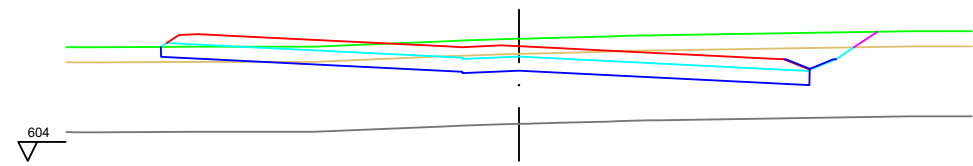
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S. SUELO SEL 1 = 25.27 m2.

S. TERRAPLEN = 0.00 m2.  
S. VEGETAL = 28.32 m2.



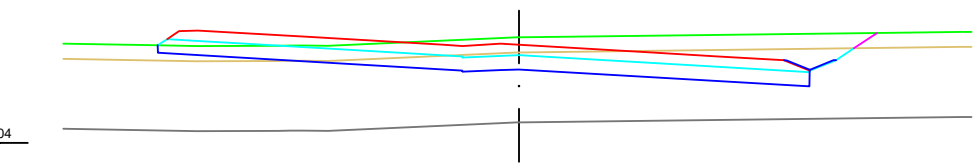
S. FIRME = 18.33 m2.  
S. REVES CUNETAS = 0.14 m2.  
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S. TERRAPLEN = 0.04 m2.  
S. VEGETAL = 29.06 m2.



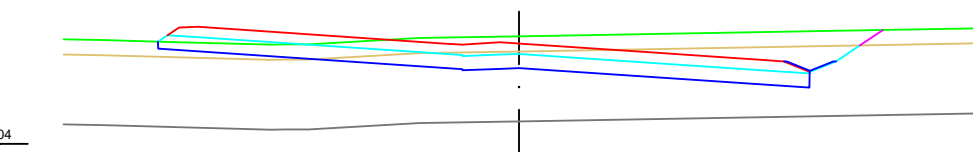
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S. SUELO SEL 1 = 25.71 m2.

S. TERRAPLEN = 0.70 m2.  
S. VEGETAL = 29.83 m2.



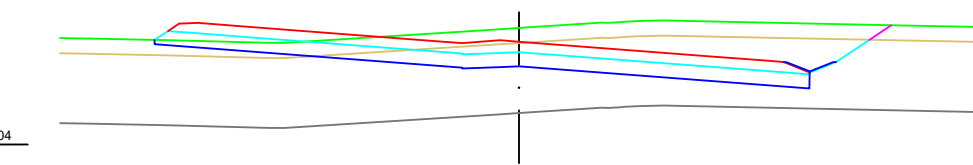
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S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 29.74 m2.  
S. SUELO SEL 1 = 25.78 m2.

S. TERRAPLEN = 1.63 m2.  
S. VEGETAL = 29.96 m2.



S. FIRME = 18.33 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 32.05 m2.  
S. SUELO SEL 1 = 25.77 m2.

S. TERRAPLEN = 2.00 m2.  
S. VEGETAL = 30.20 m2.



S. FIRME = 18.34 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 43.25 m2.  
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S. TERRAPLEN = 2.91 m2.  
S. VEGETAL = 30.72 m2.

ORGANISMO



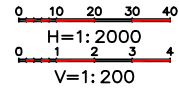
CONSULTOR



AUTOR DEL ESTUDIO



ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

12-07.dwg

DESIGNACIÓN

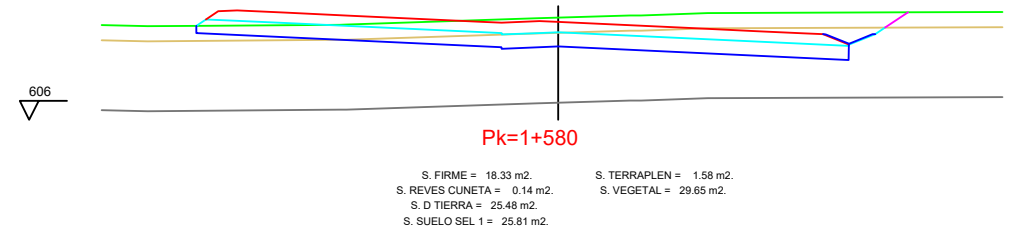
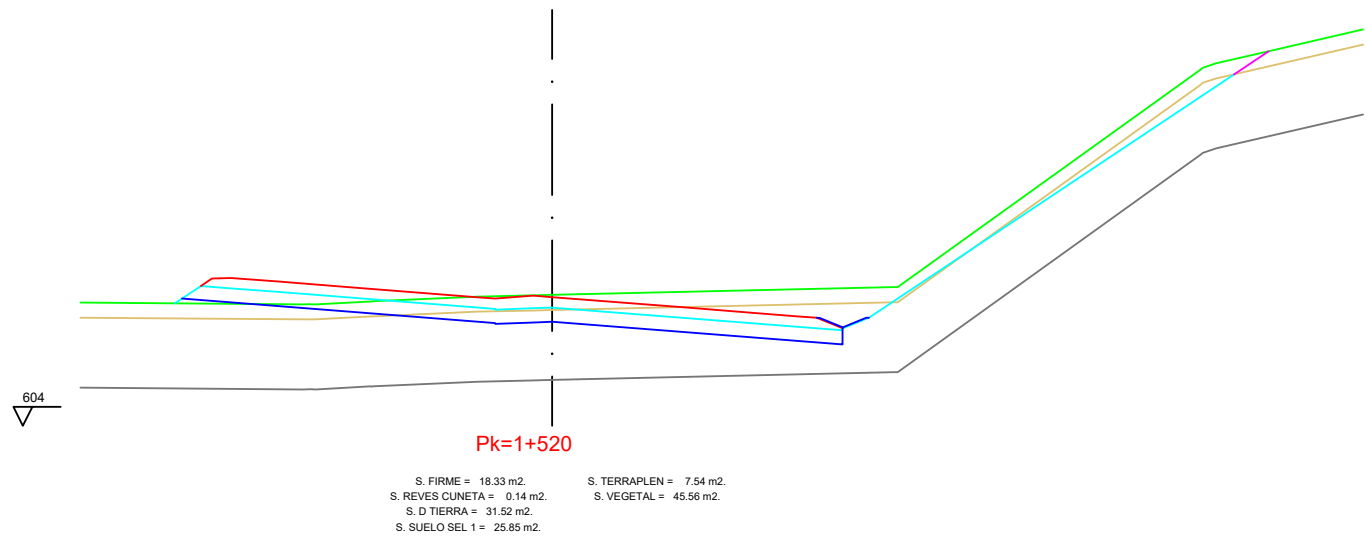
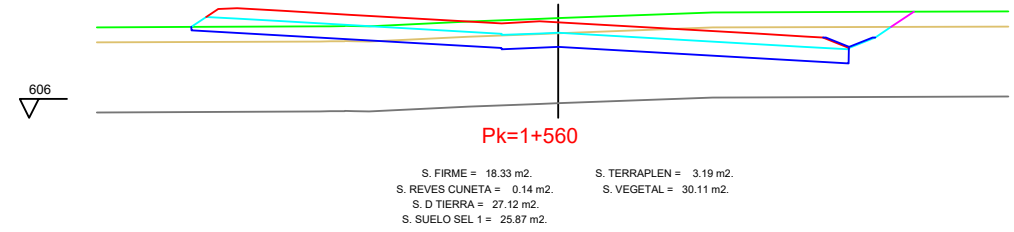
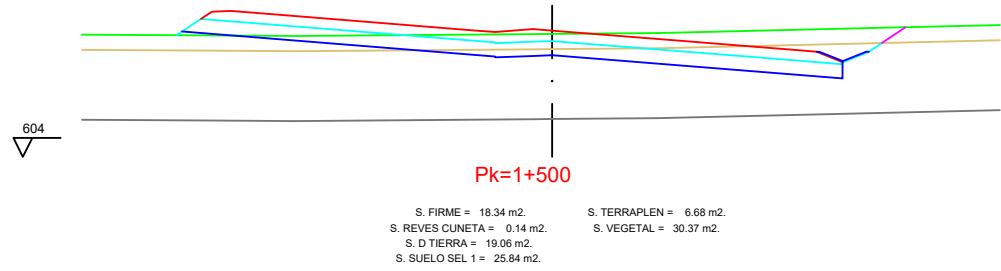
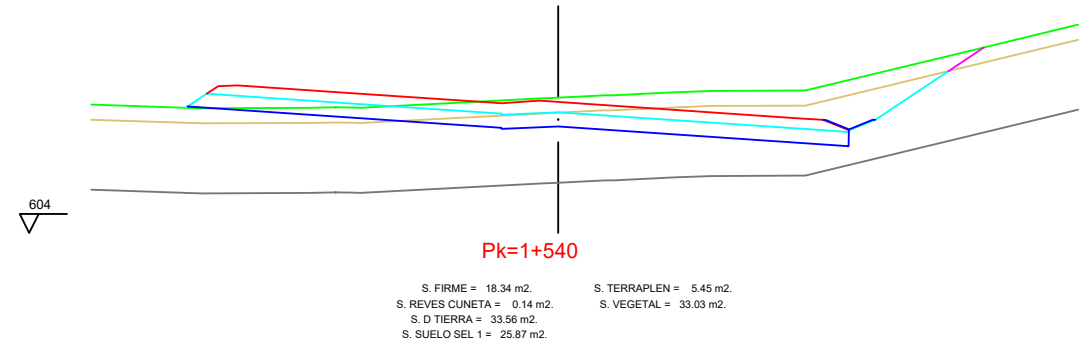
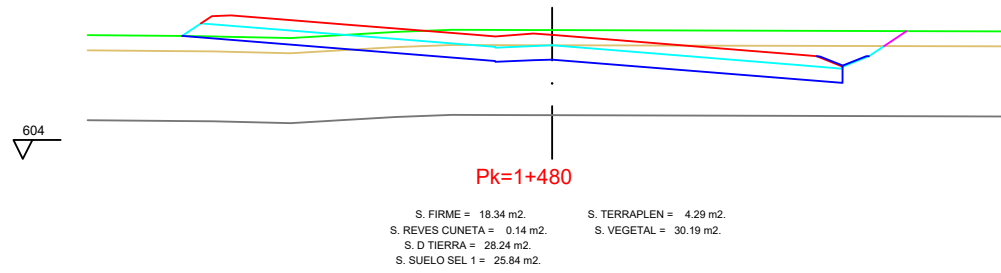
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

12-07

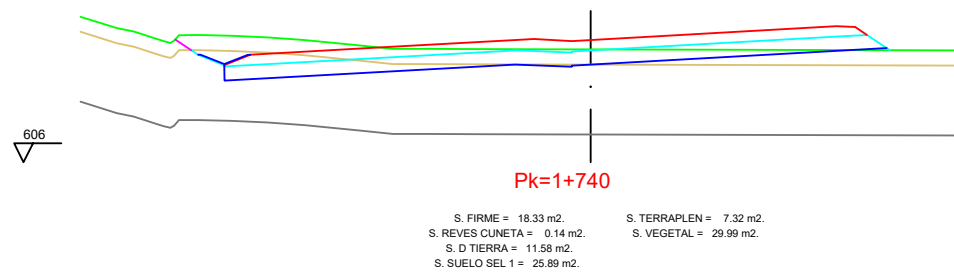
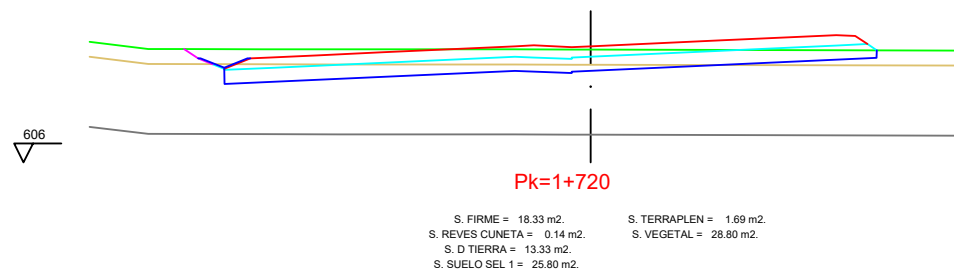
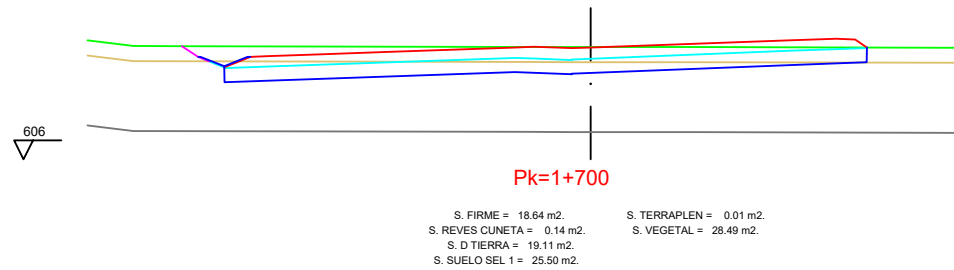
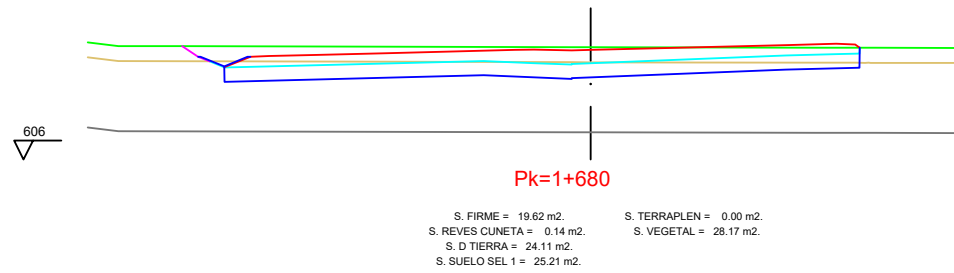
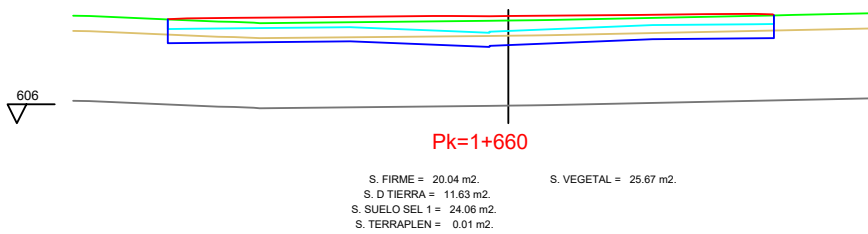
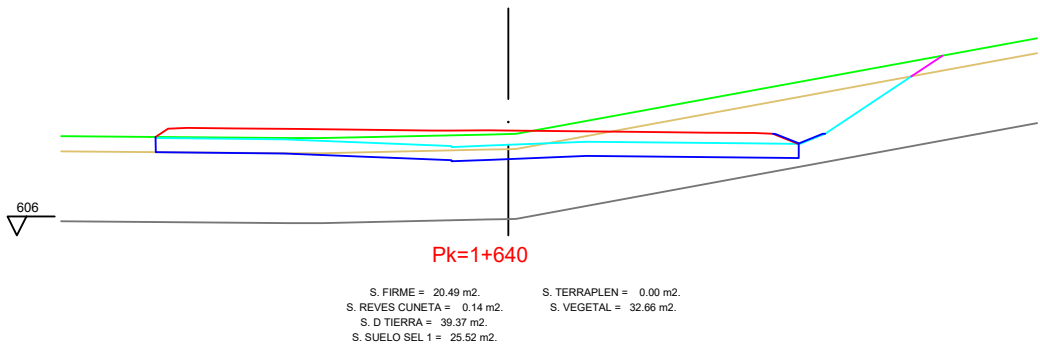
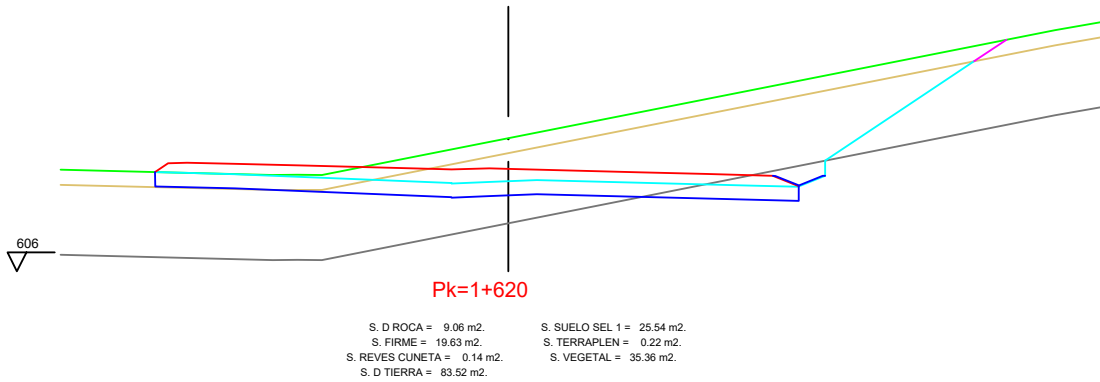
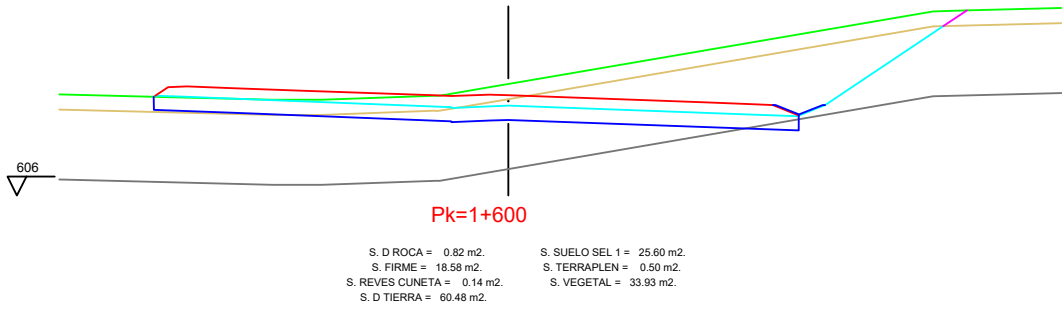
HOJA 6 DE 50

EJE 1  
PK 1+480 - 1+580

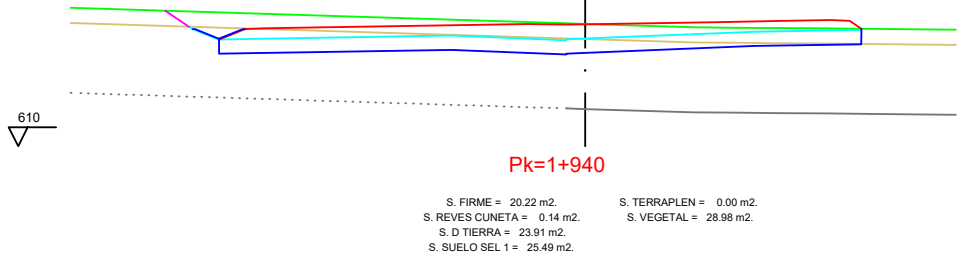
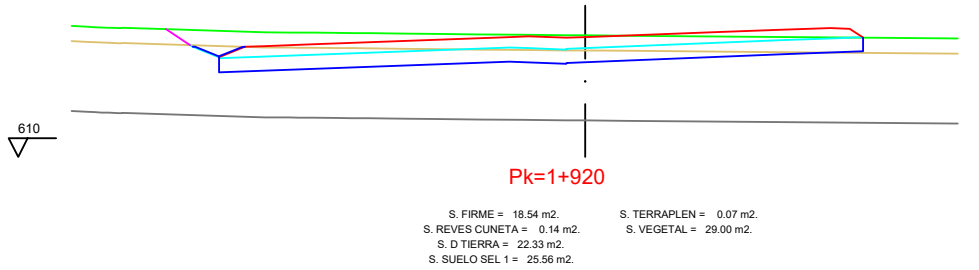
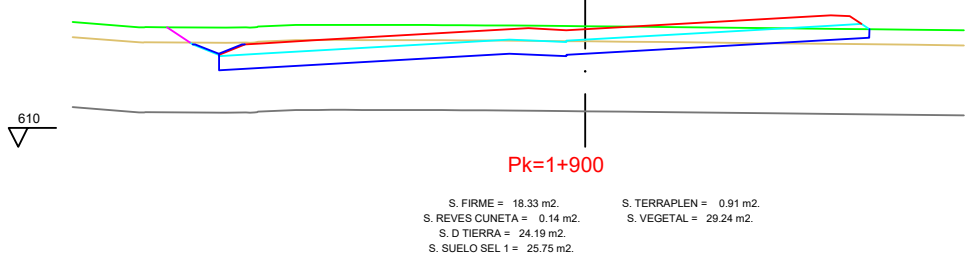
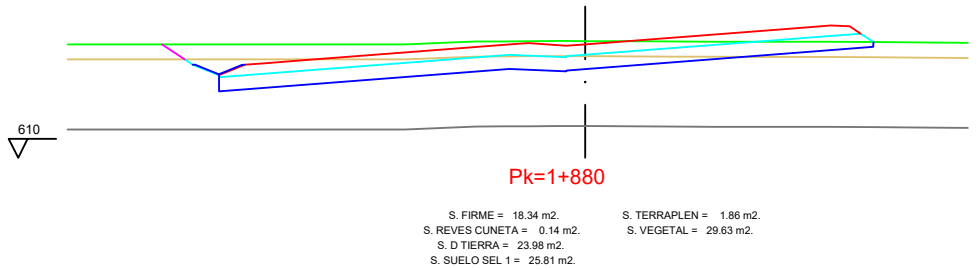
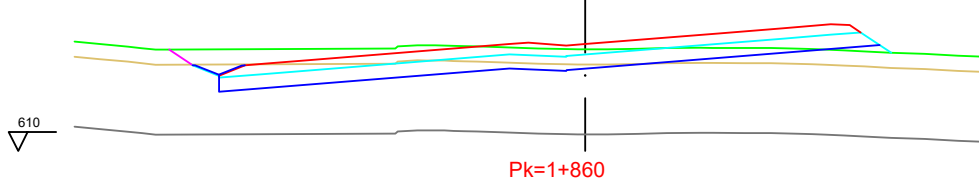
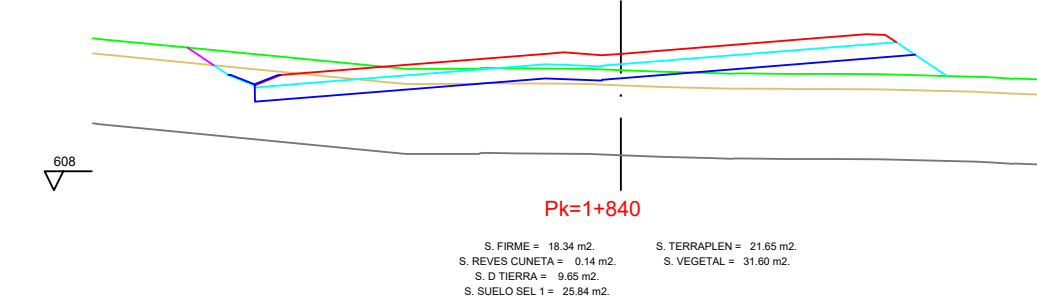
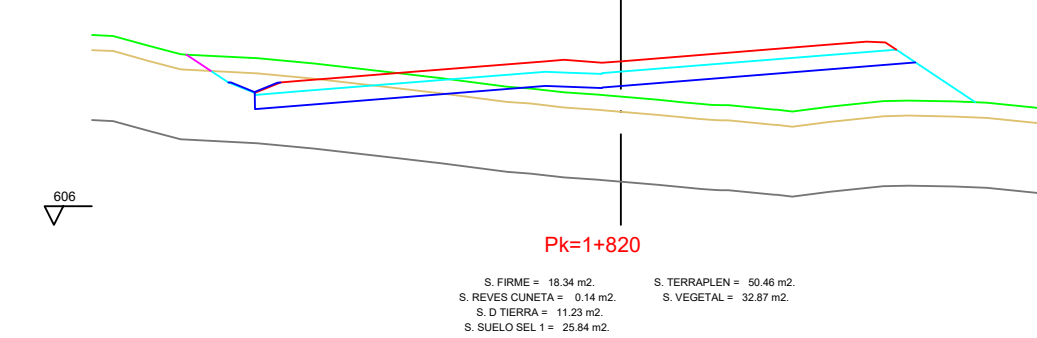
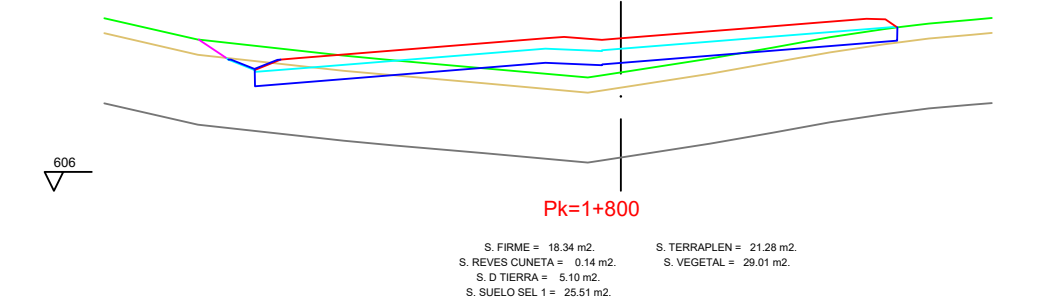
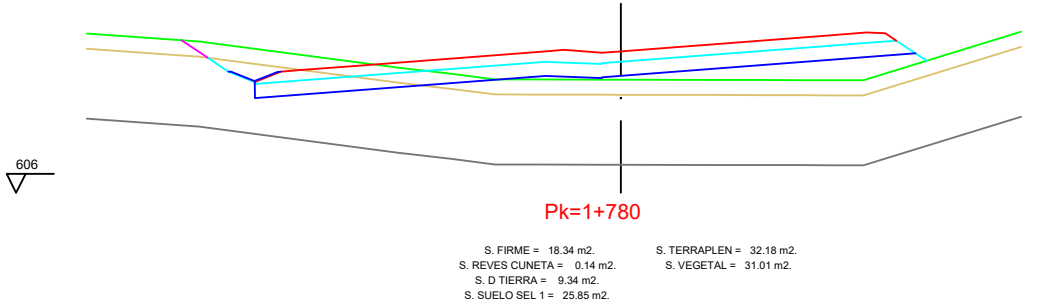
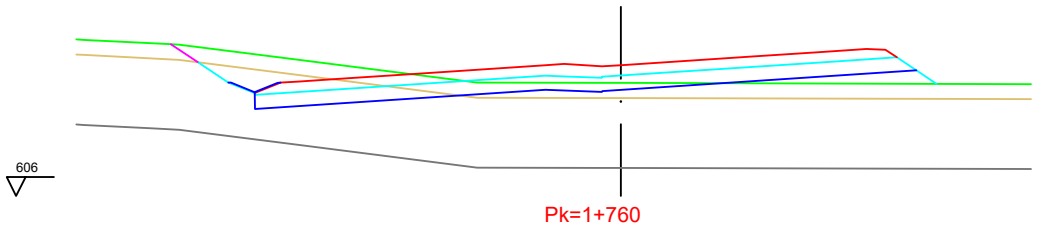




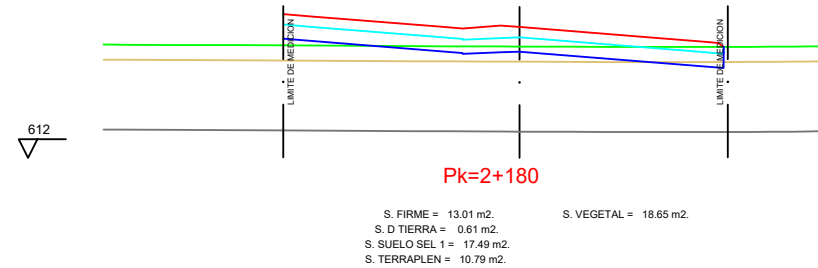
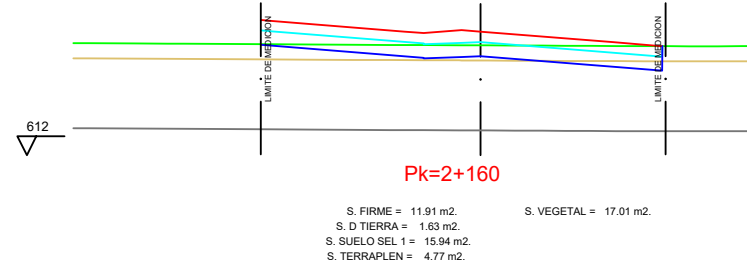
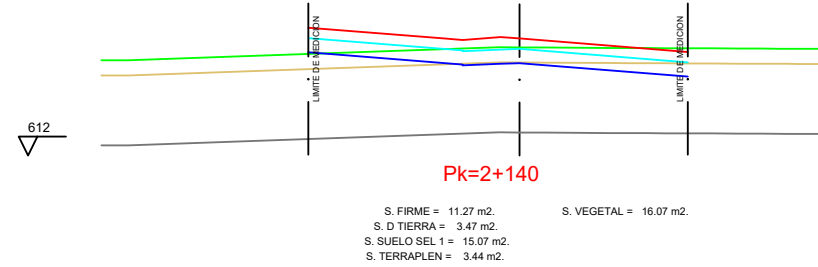
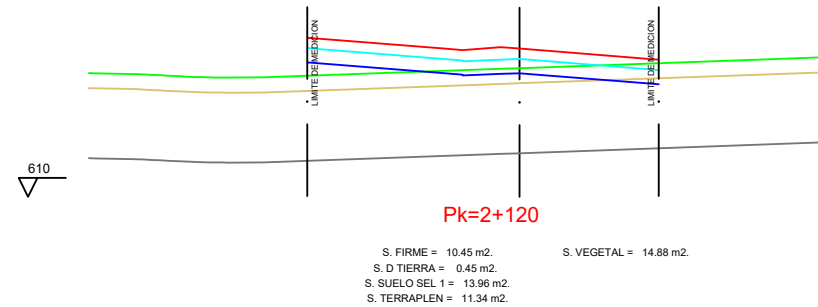
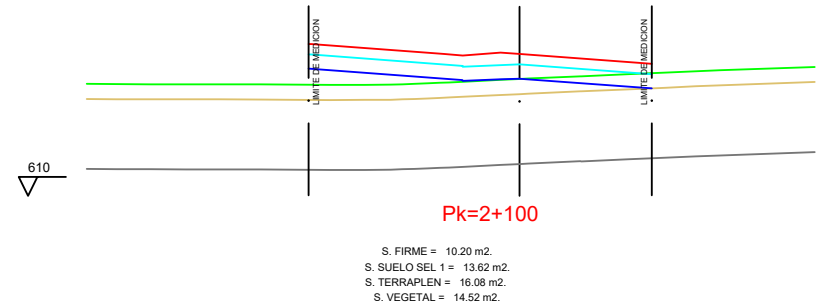
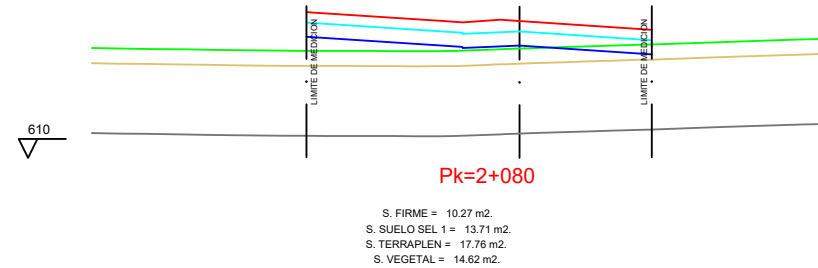
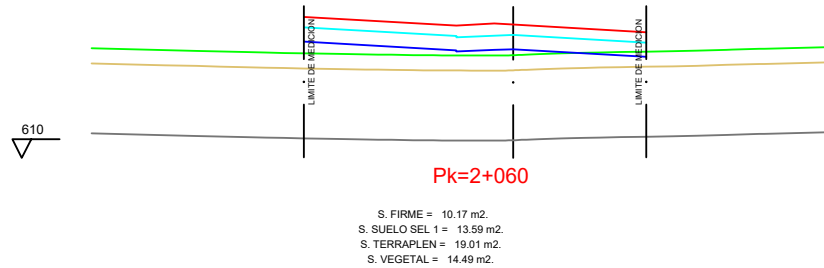
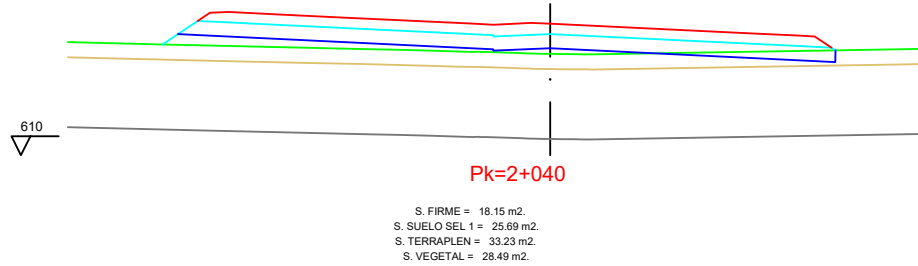
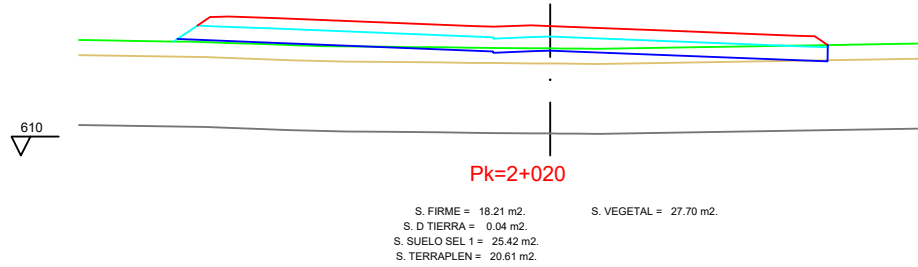
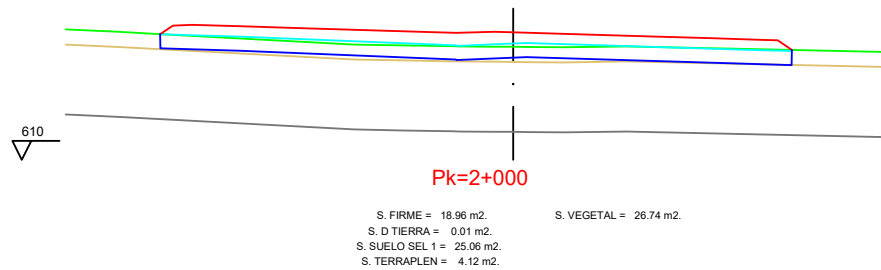
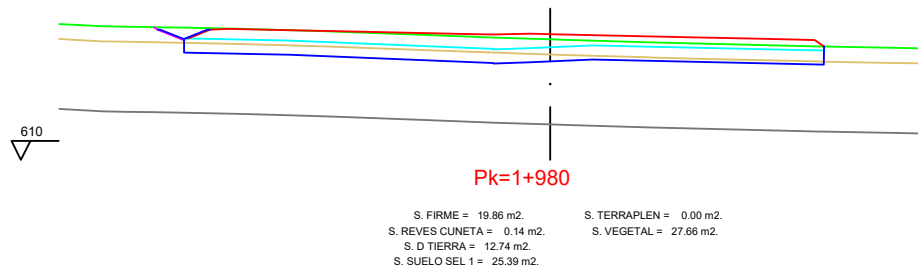
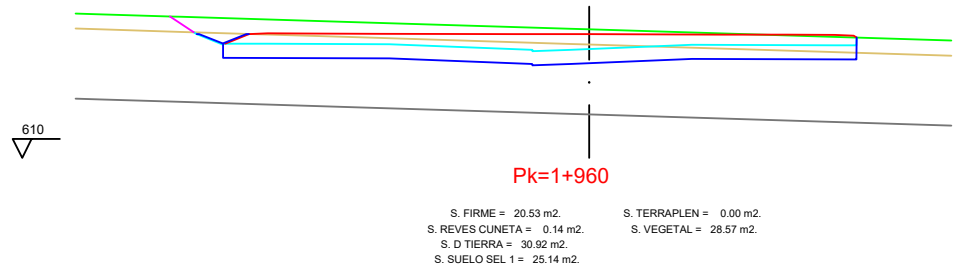
EJE 1  
PK 1+600 - 1+740



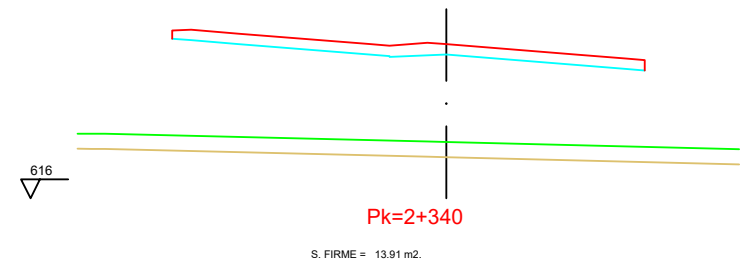
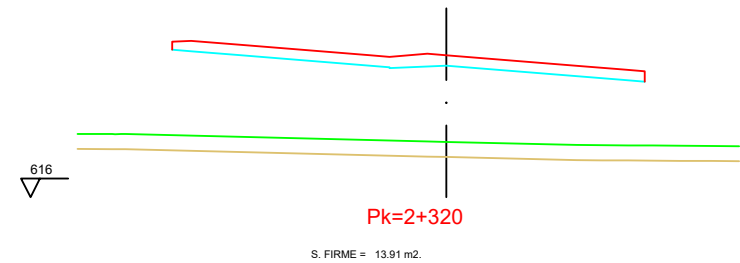
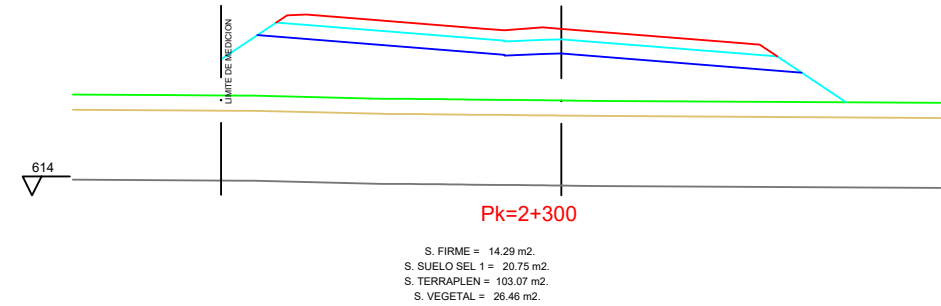
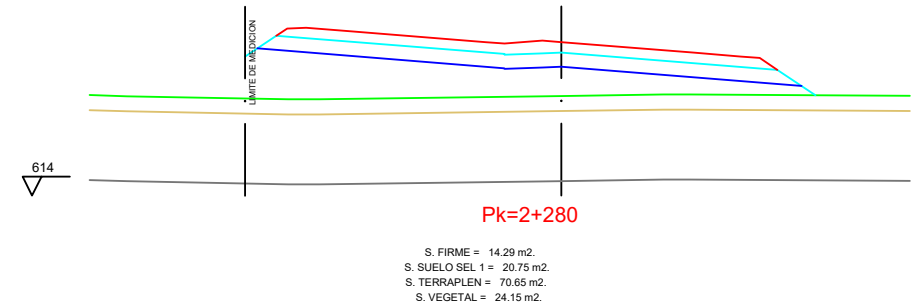
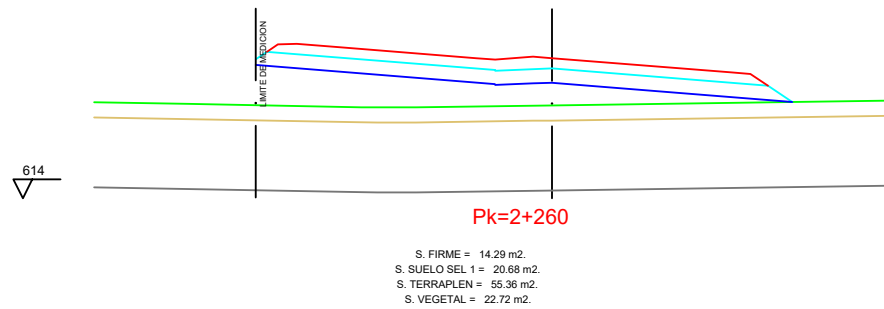
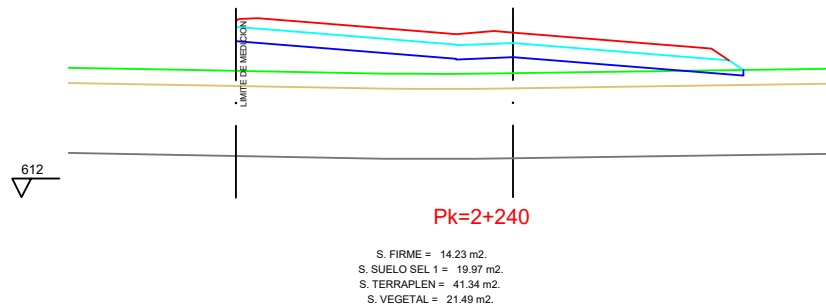
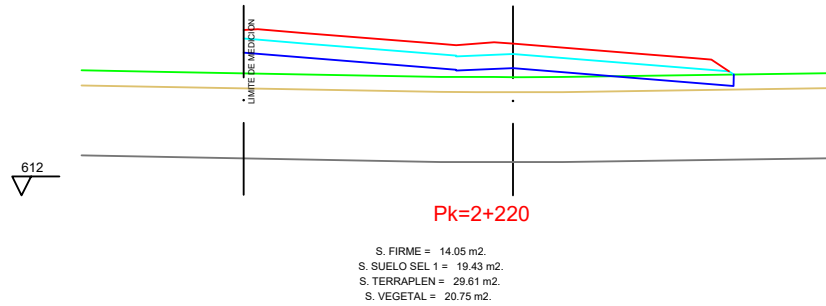
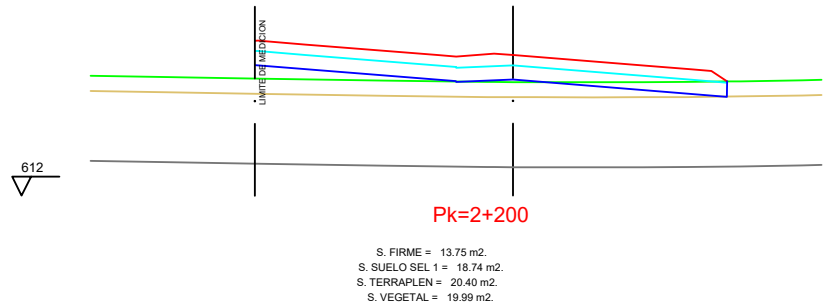
EJE 1  
PK 1+760 - 1+940



EJE 1  
PK 1+960 - 2+180

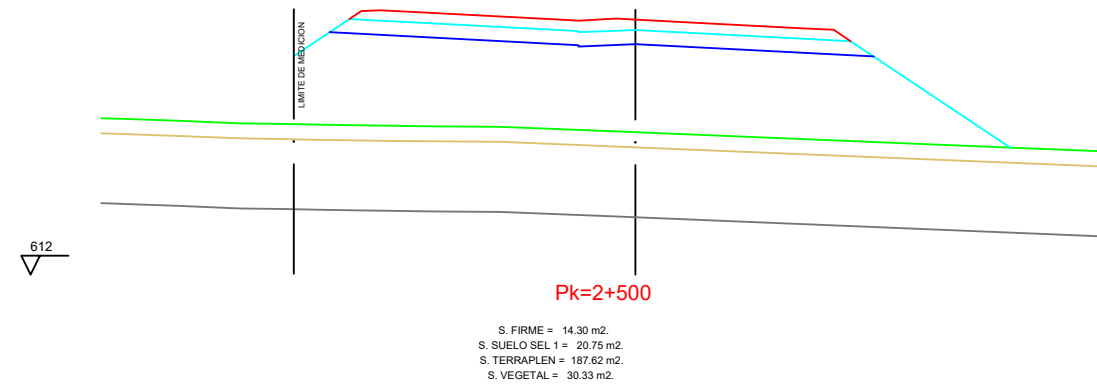
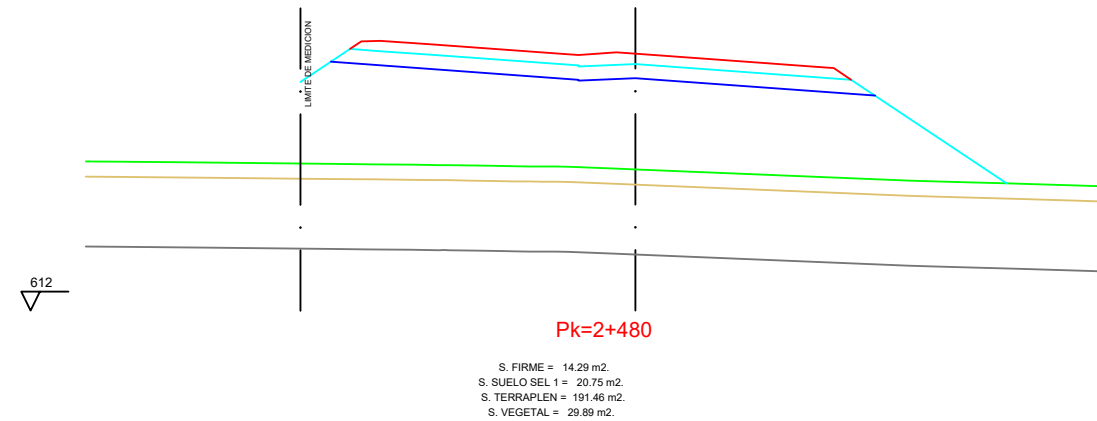
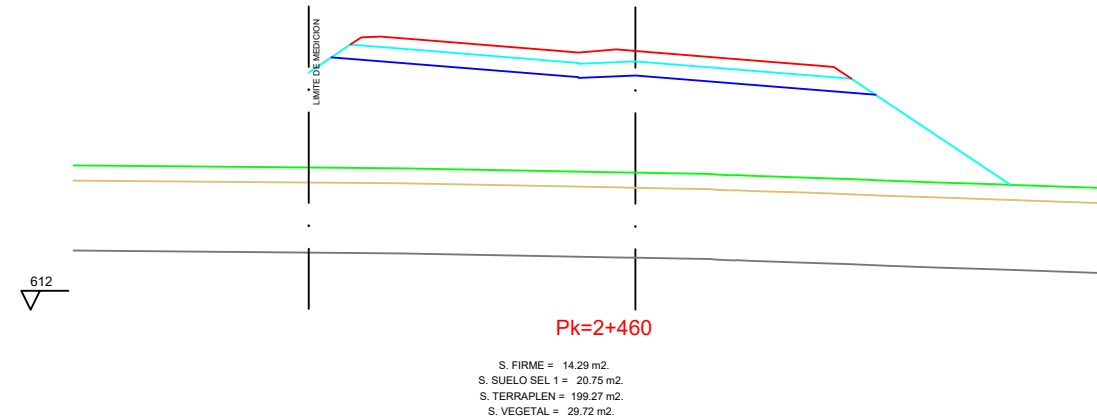
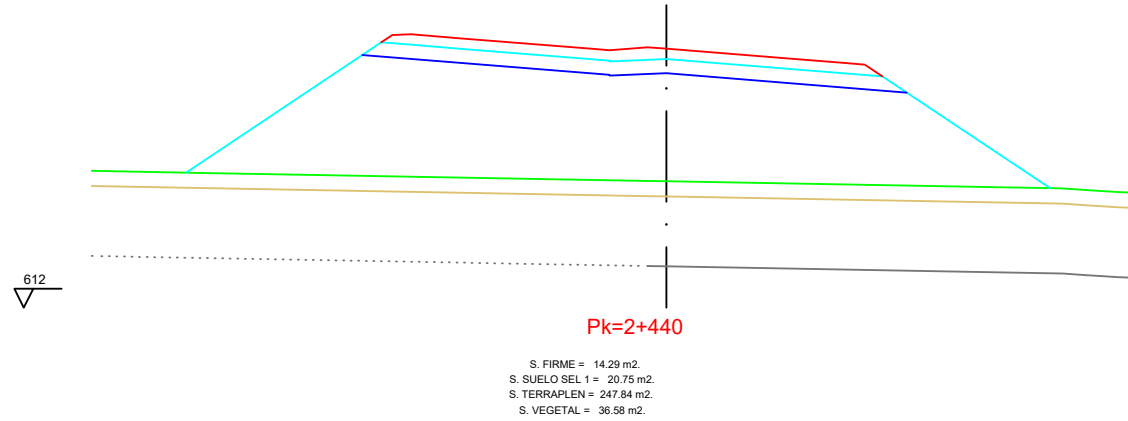
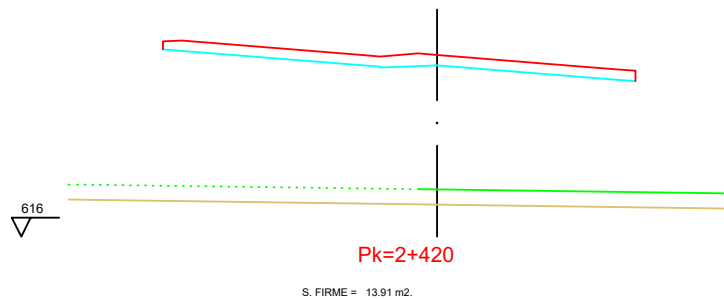
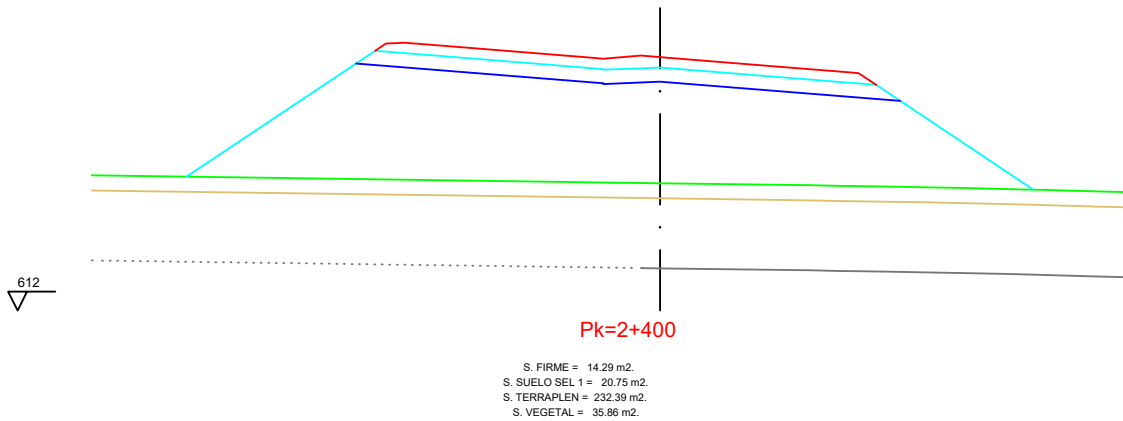
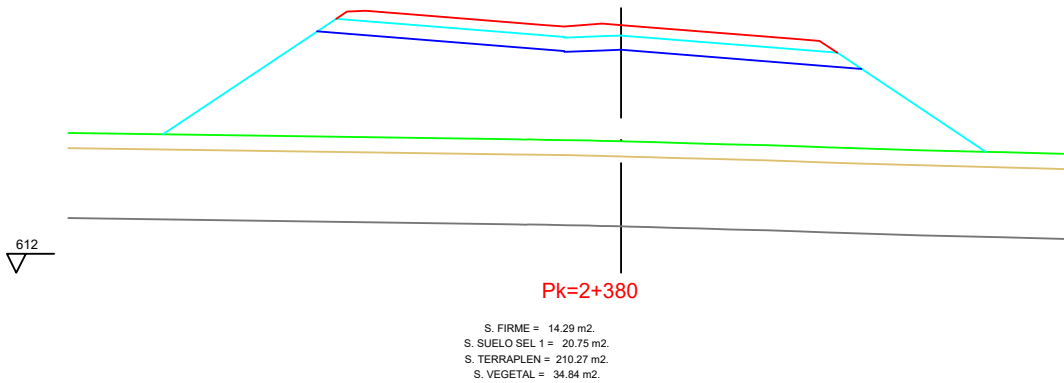
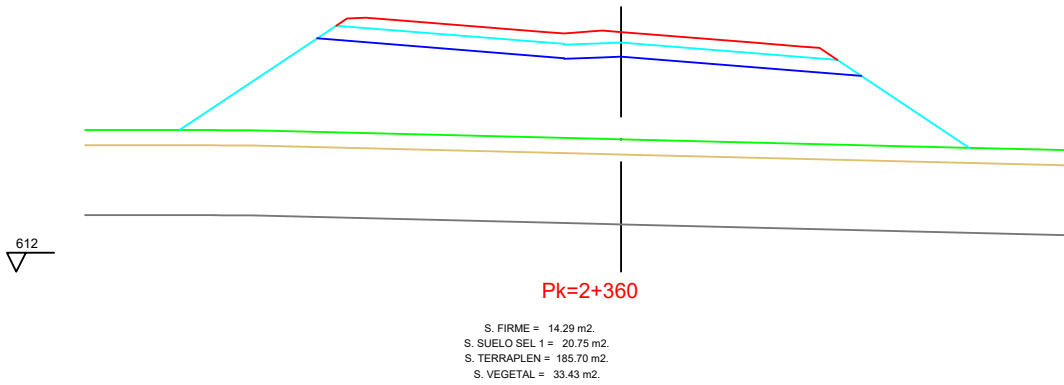


EJE 1  
PK 2+200 - 2+340

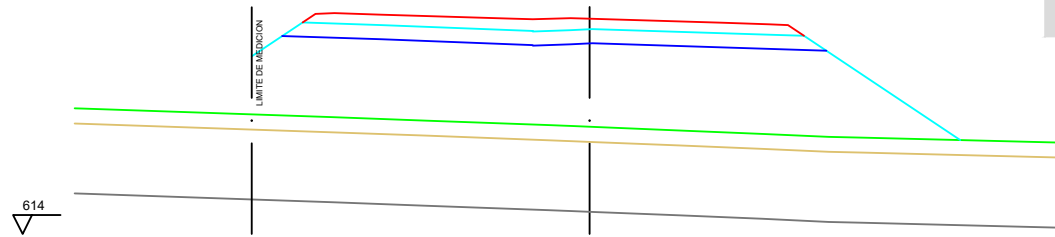




EJE 1  
PK 2+360 - 2+500

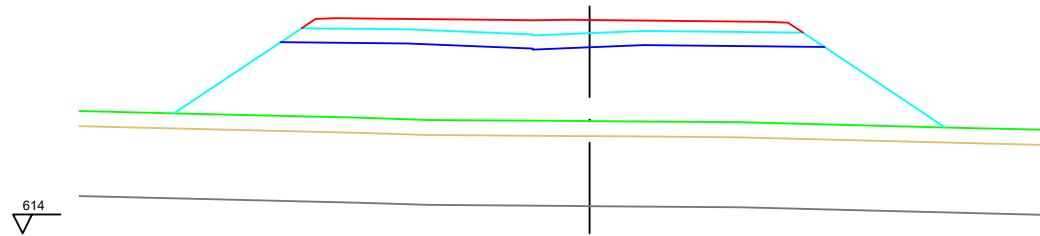


EJE 1  
PK 2+520 - 2+700



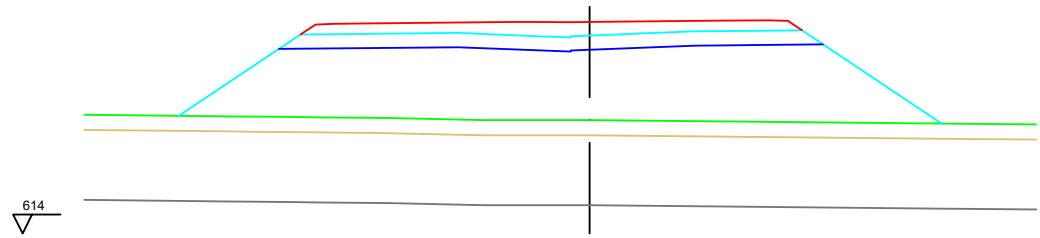
Pk=2+520

S. FIRME = 14.82 m2.  
S. SUELO SEL 1 = 20.75 m2.  
S. TERRAPLEN = 176.78 m2.  
S. VEGETAL = 30.00 m2.



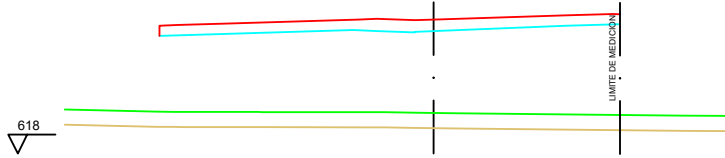
Pk=2+540

S. FIRME = 15.57 m2.  
S. SUELO SEL 1 = 20.74 m2.  
S. TERRAPLEN = 170.73 m2.  
S. VEGETAL = 32.64 m2.



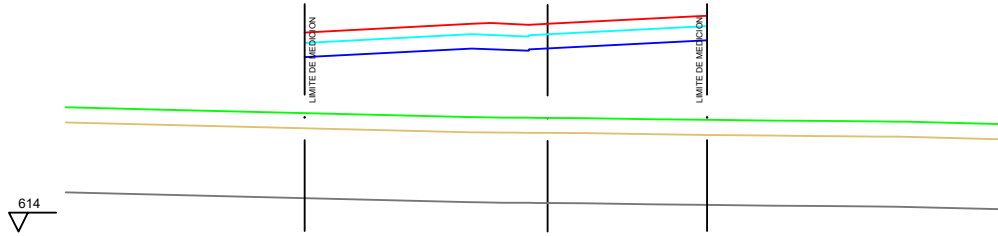
Pk=2+560

S. FIRME = 15.59 m2.  
S. SUELO SEL 1 = 20.74 m2.  
S. TERRAPLEN = 164.90 m2.  
S. VEGETAL = 32.30 m2.



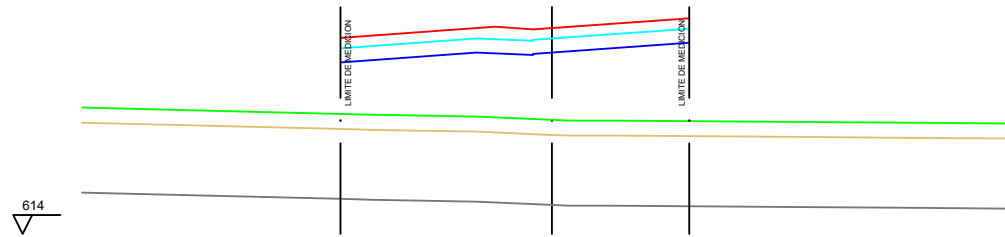
Pk=2+580

S. FIRME = 13.95 m2.



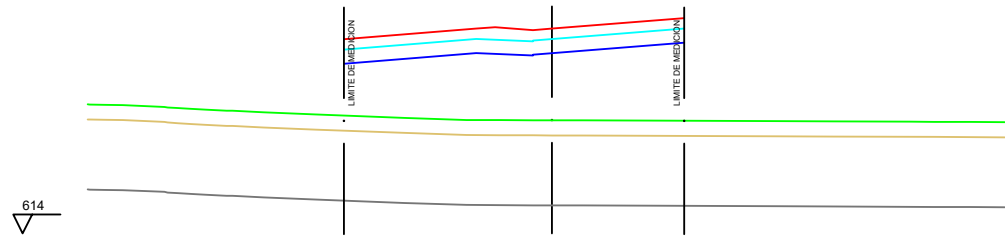
Pk=2+600

S. FIRME = 11.91 m2.  
S. SUELO SEL 1 = 15.97 m2.  
S. TERRAPLEN = 93.86 m2.  
S. VEGETAL = 17.03 m2.



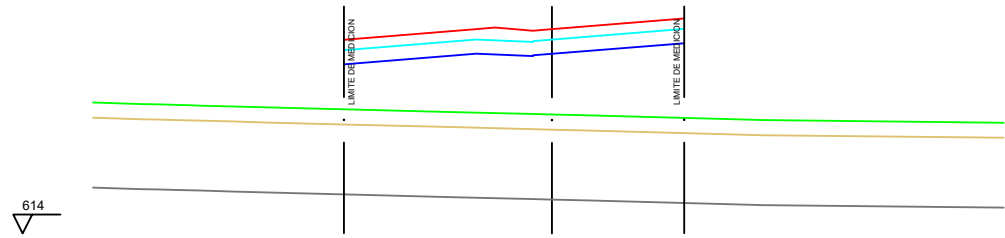
Pk=2+620

S. FIRME = 10.36 m2.  
S. SUELO SEL 1 = 13.84 m2.  
S. TERRAPLEN = 78.39 m2.  
S. VEGETAL = 14.76 m2.



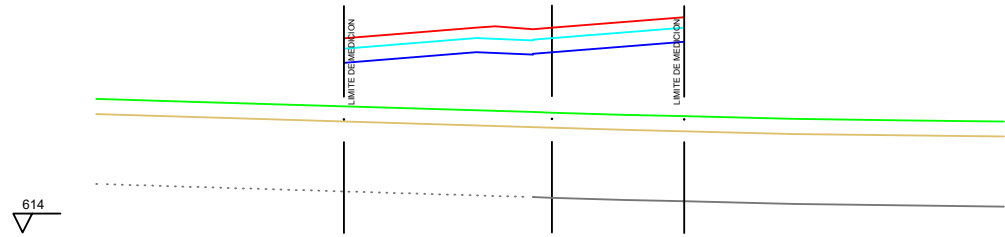
Pk=2+640

S. FIRME = 10.12 m2.  
S. SUELO SEL 1 = 13.50 m2.  
S. TERRAPLEN = 77.25 m2.  
S. VEGETAL = 14.40 m2.



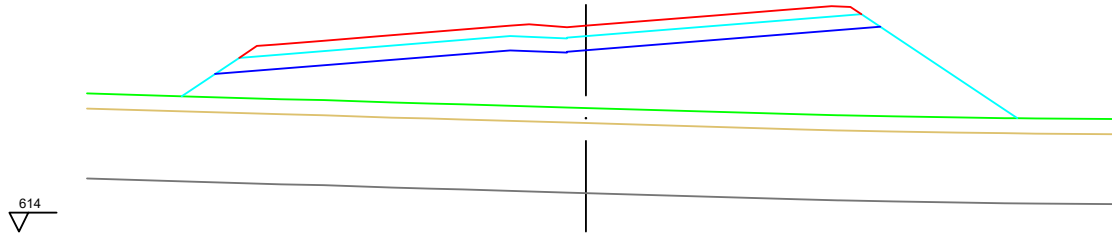
Pk=2+660

S. FIRME = 10.12 m2.  
S. SUELO SEL 1 = 13.50 m2.  
S. TERRAPLEN = 71.13 m2.  
S. VEGETAL = 14.40 m2.



Pk=2+680

S. FIRME = 10.12 m2.  
S. SUELO SEL 1 = 13.50 m2.  
S. TERRAPLEN = 70.49 m2.  
S. VEGETAL = 14.40 m2.



Pk=2+700

S. FIRME = 17.81 m2.  
S. SUELO SEL 1 = 25.55 m2.  
S. TERRAPLEN = 158.68 m2.  
S. VEGETAL = 35.38 m2.

ORGANISMO



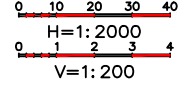
CONSULTOR



AUTOR DEL ESTUDIO

JAIME ALONSO HERAS  
INGENIERO DE CAMINOS, CANALES Y PUERTOS

ESCALAS



TITULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

12-07.dwg

DESIGNACIÓN

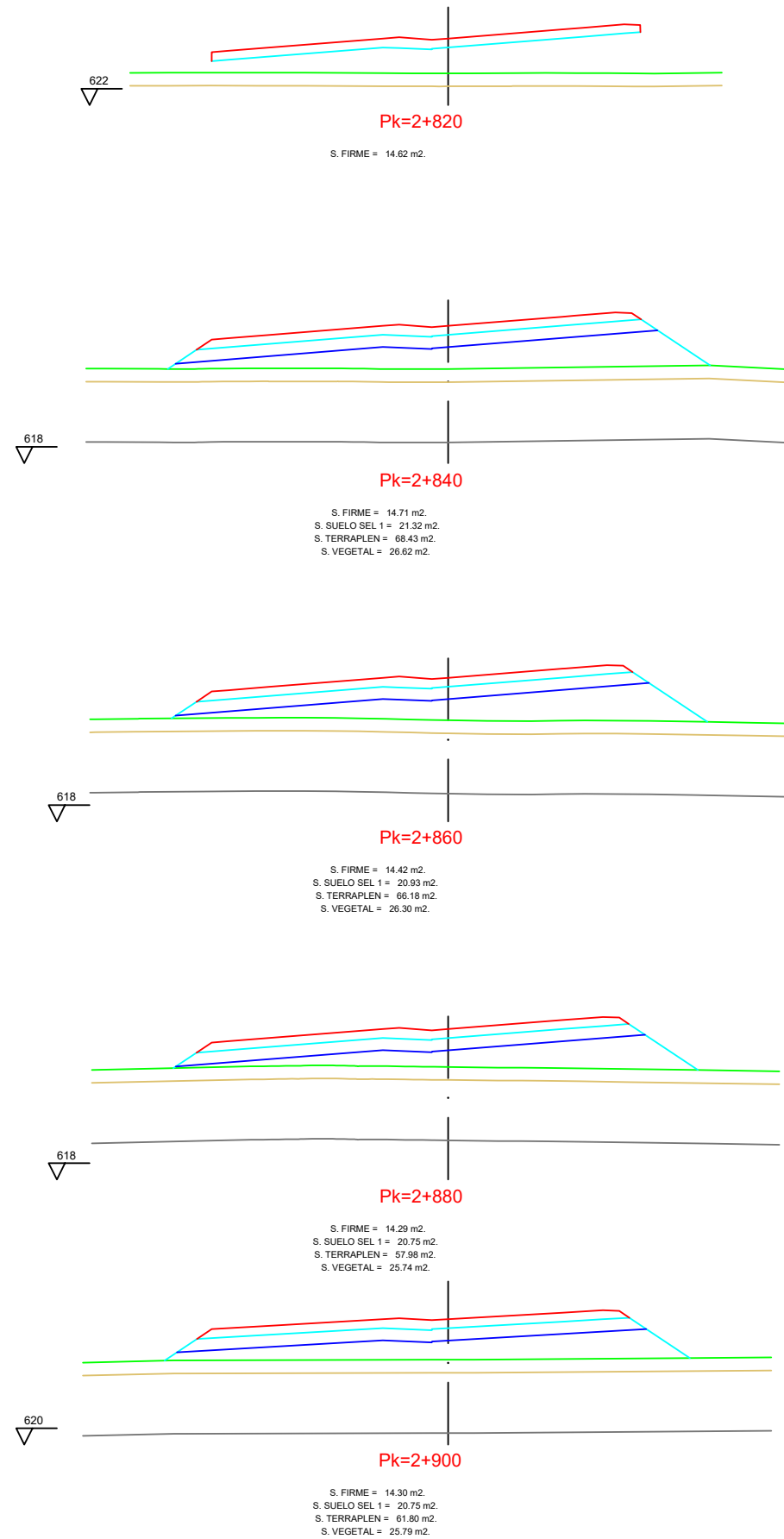
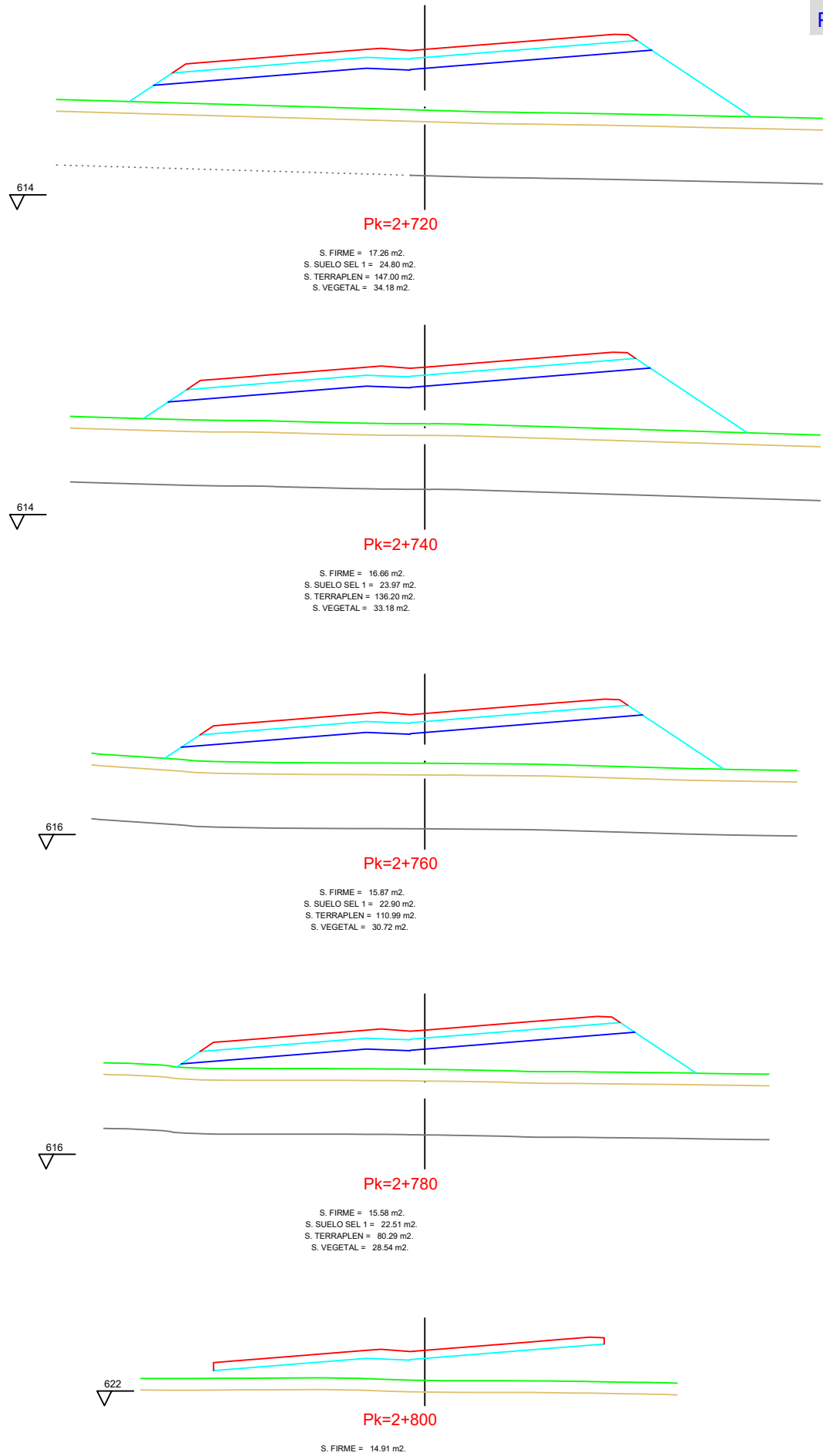
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

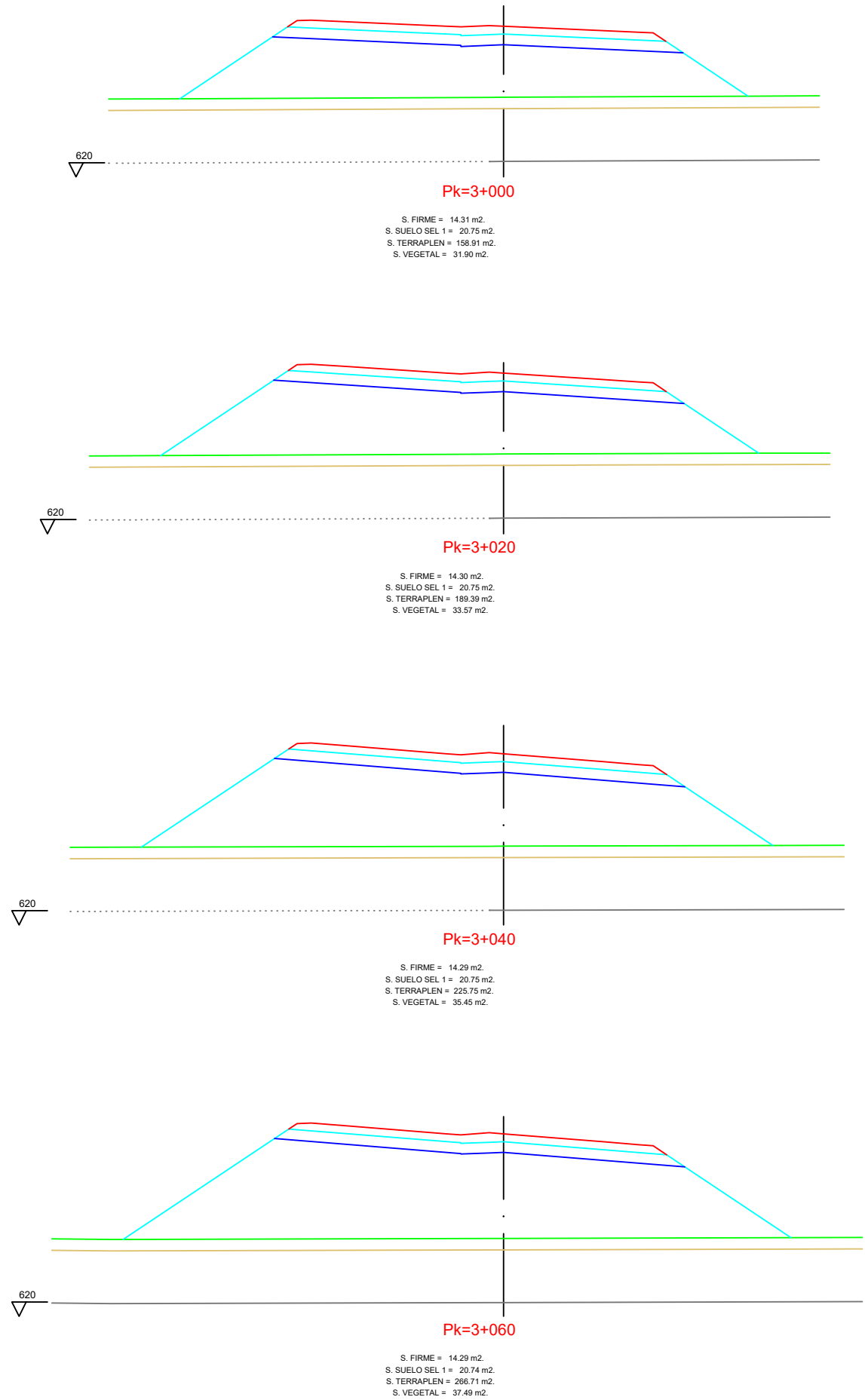
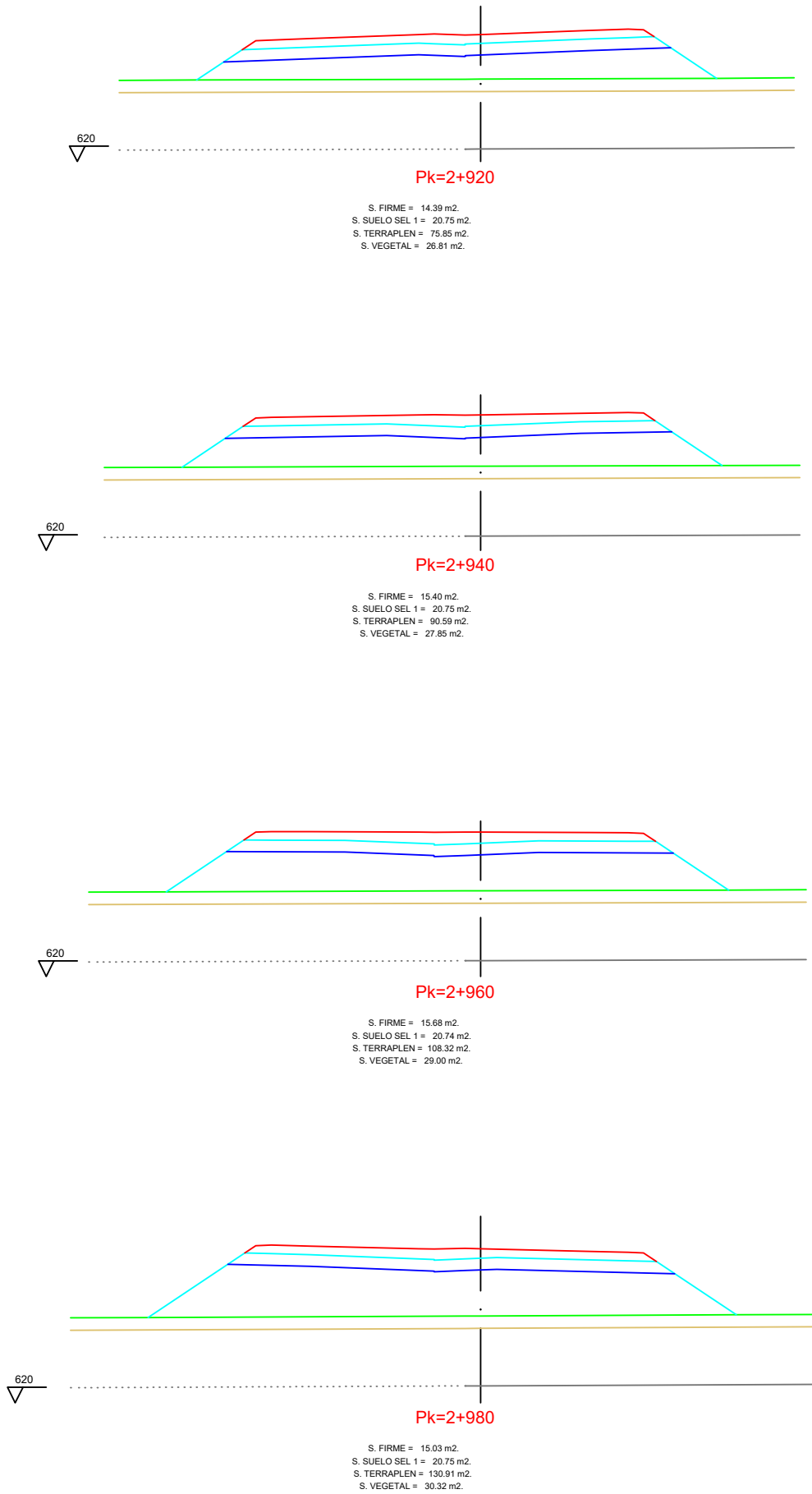
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HOJA 13 DE 50

EJE 1  
PK 2+720 - 2+900

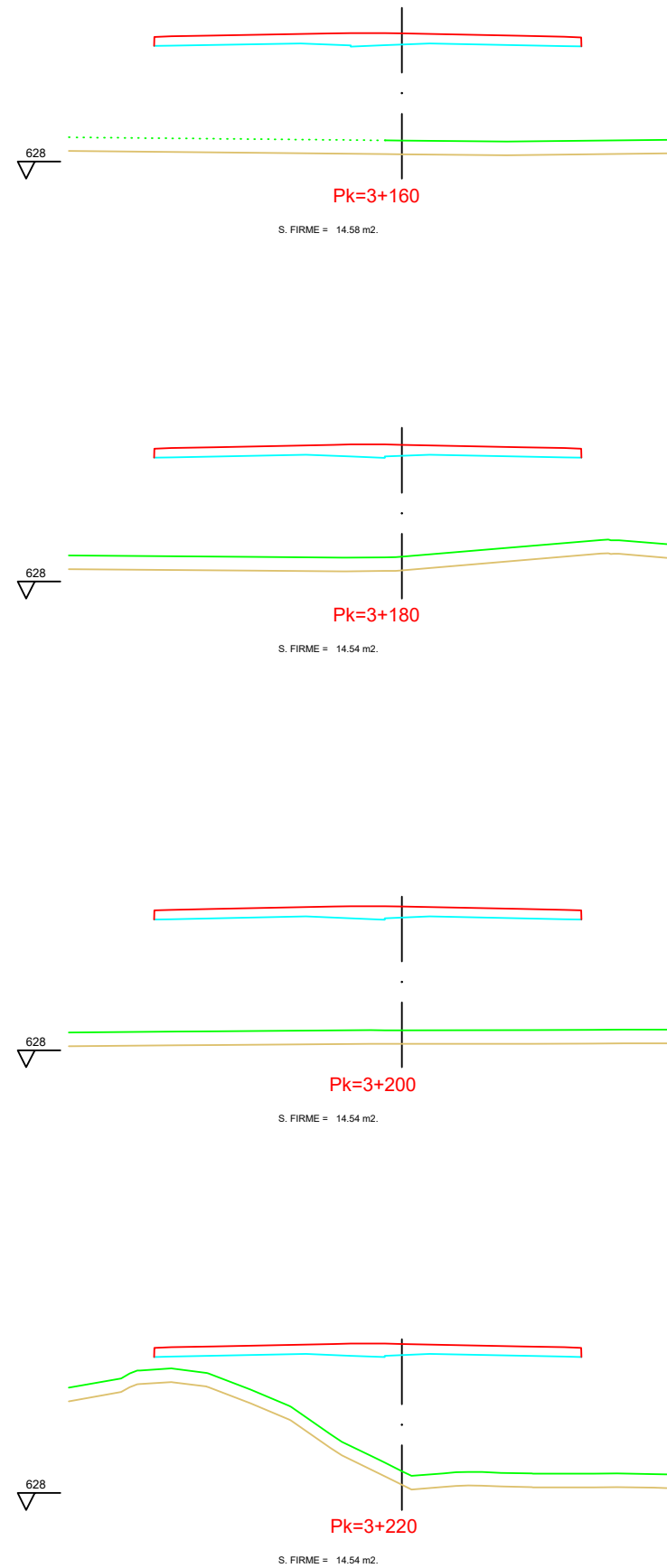
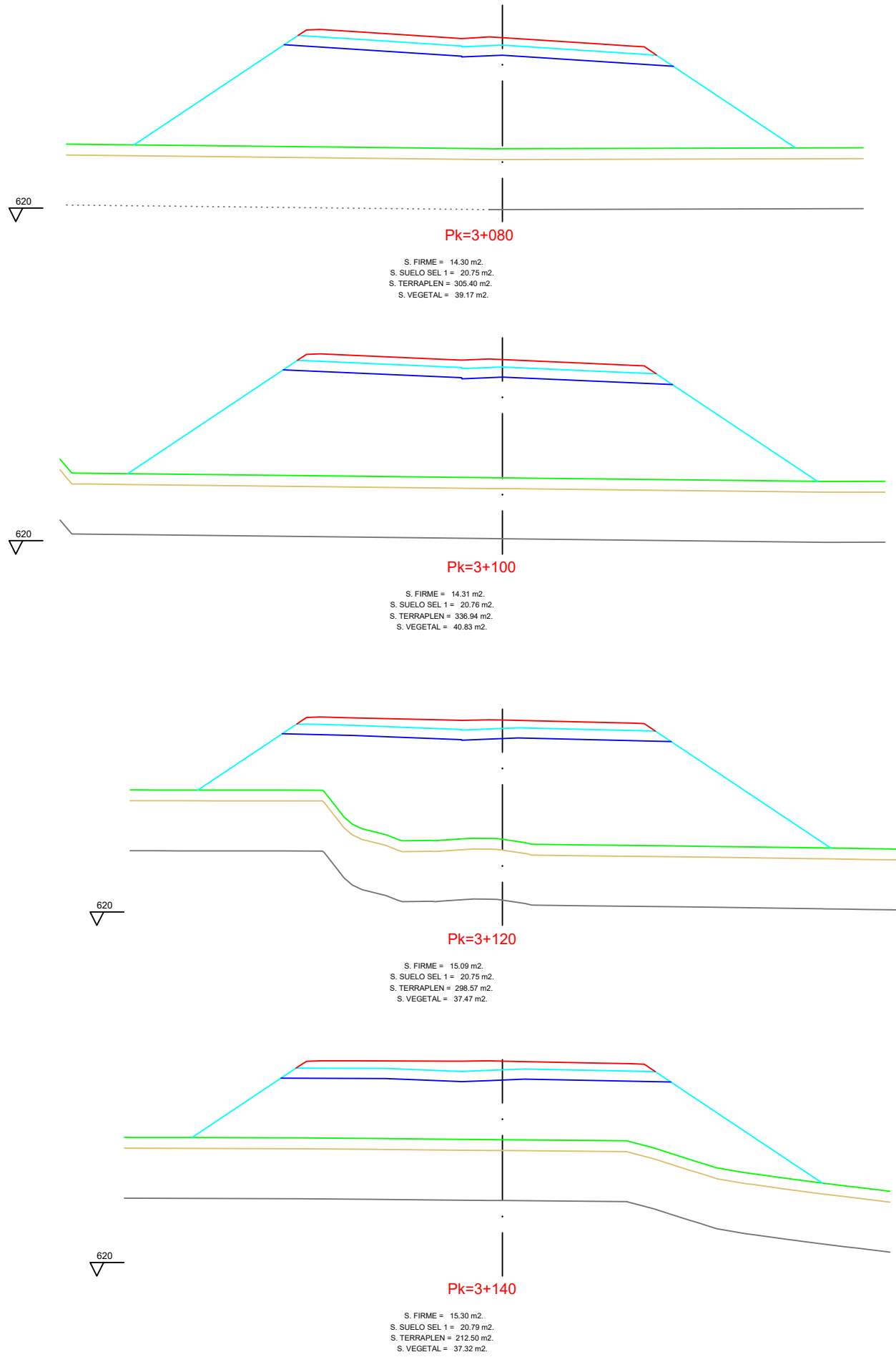


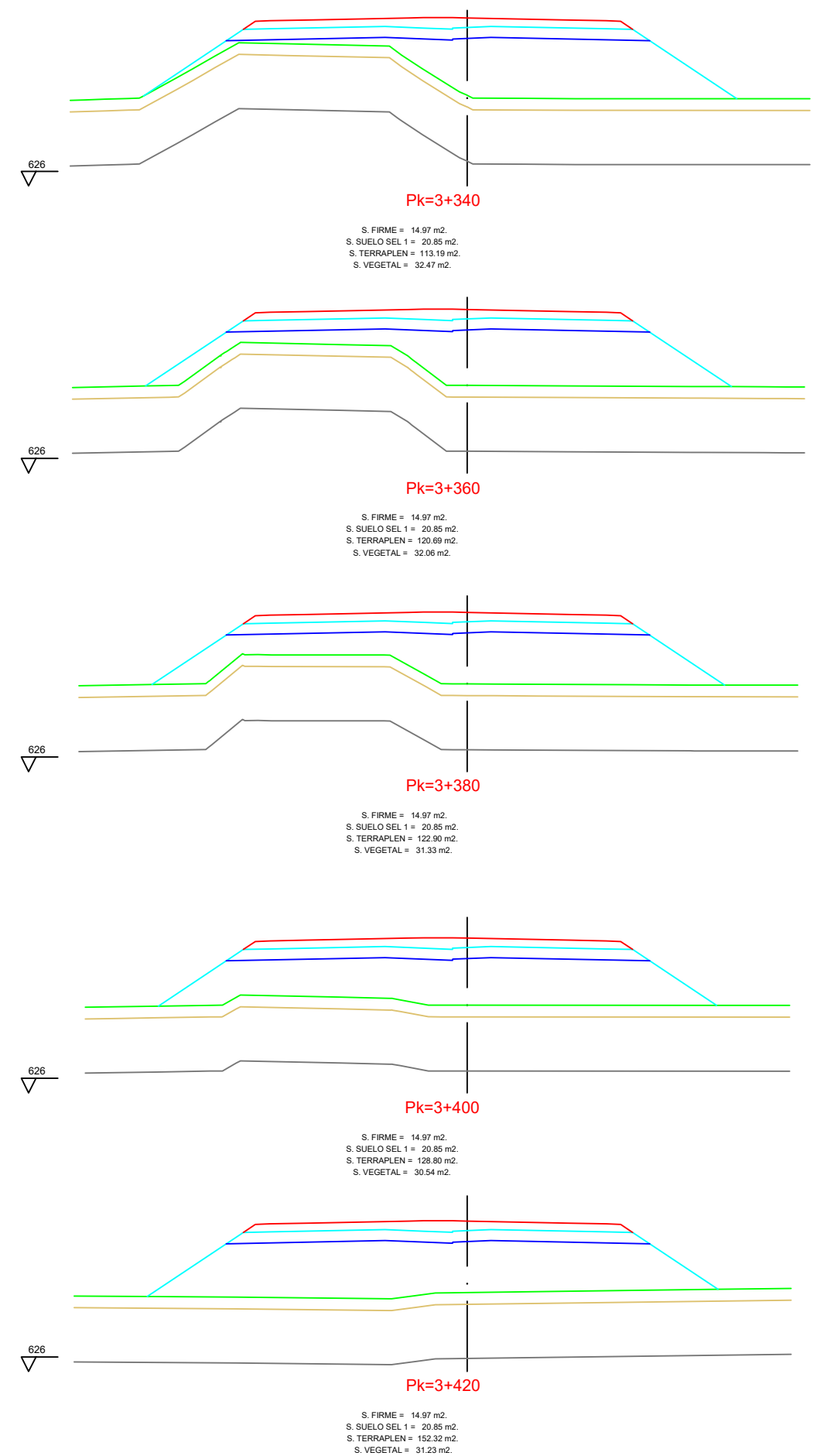
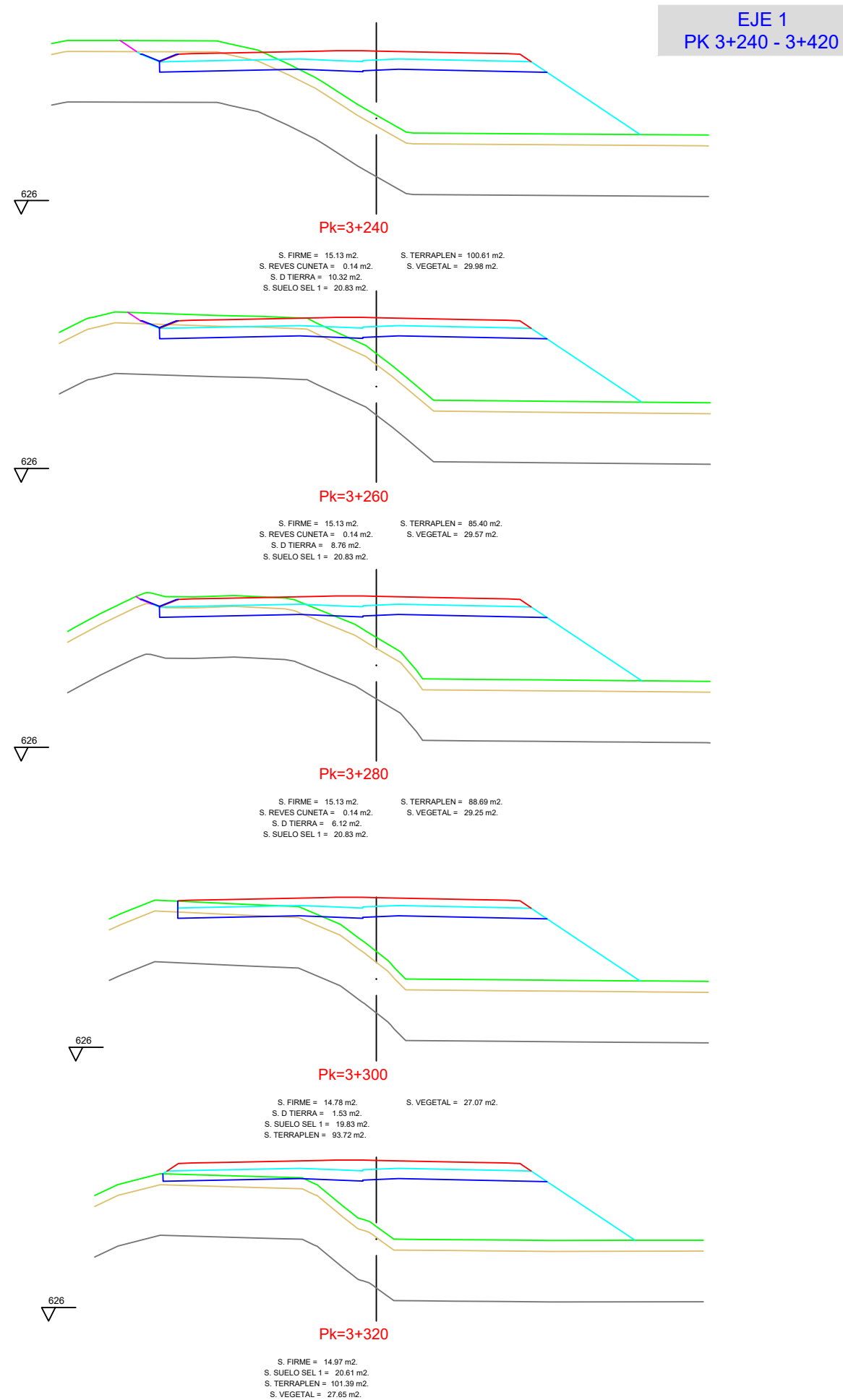
EJE 1  
PK 2+920 - 3+060



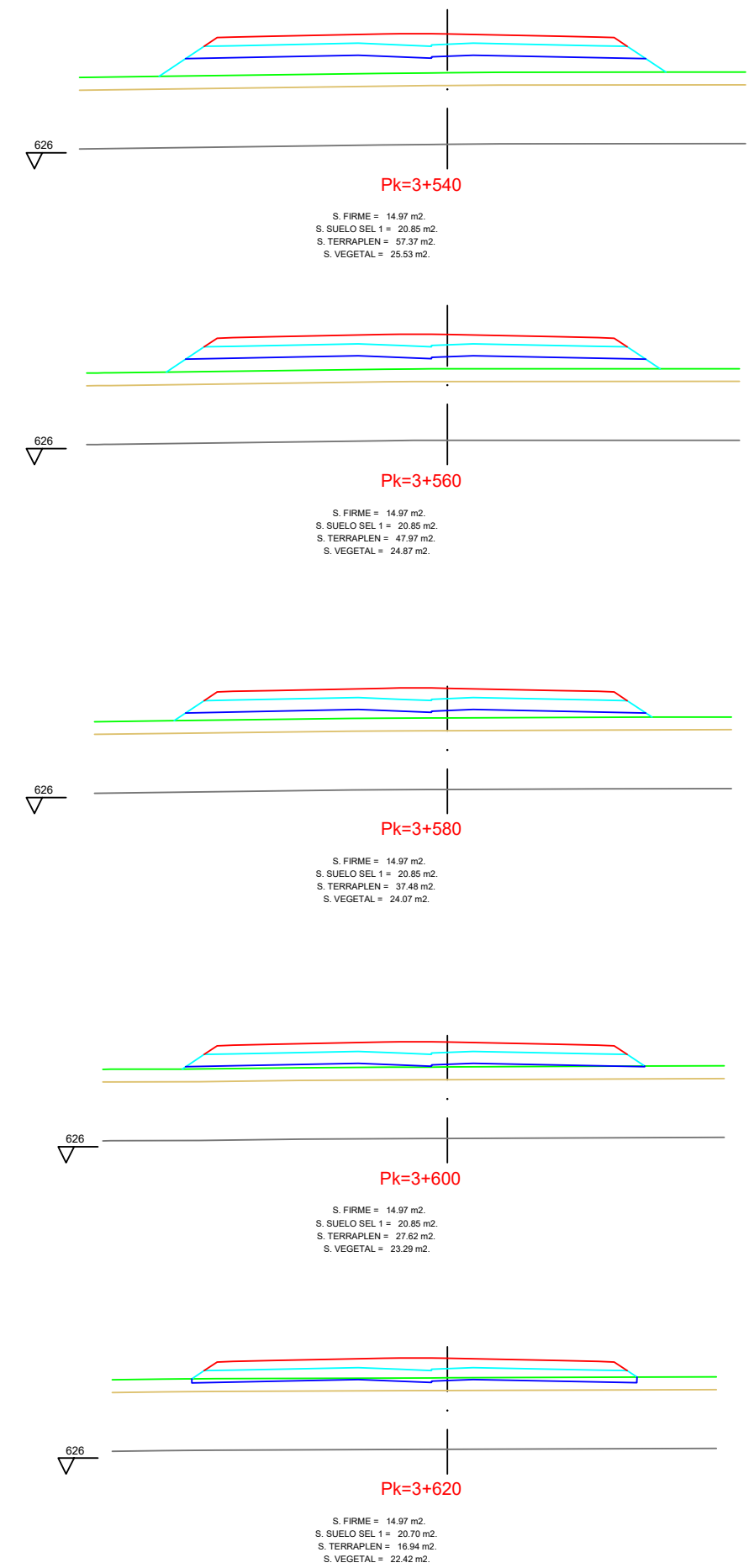
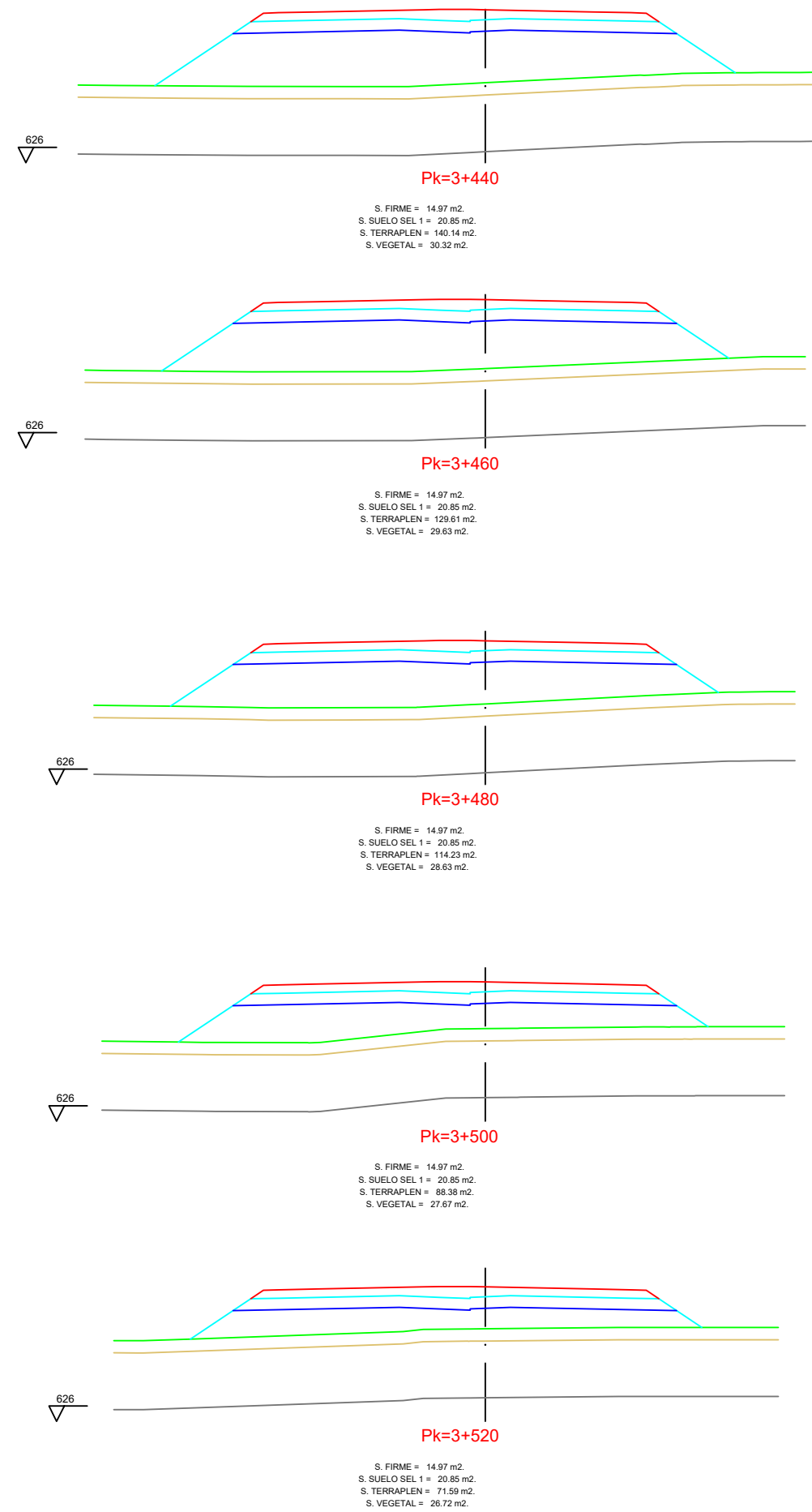


EJE 1  
PK 3+080 - 3+220

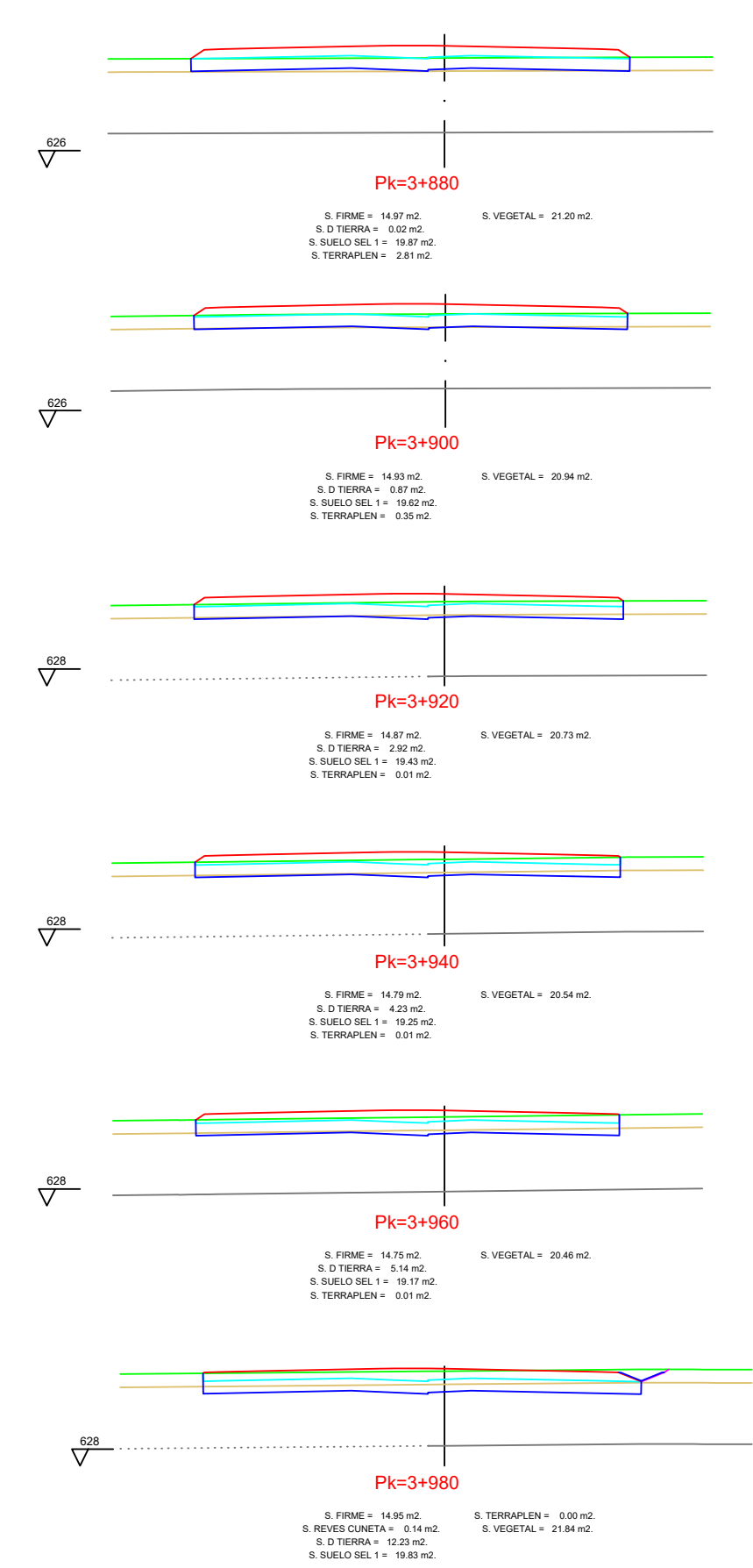
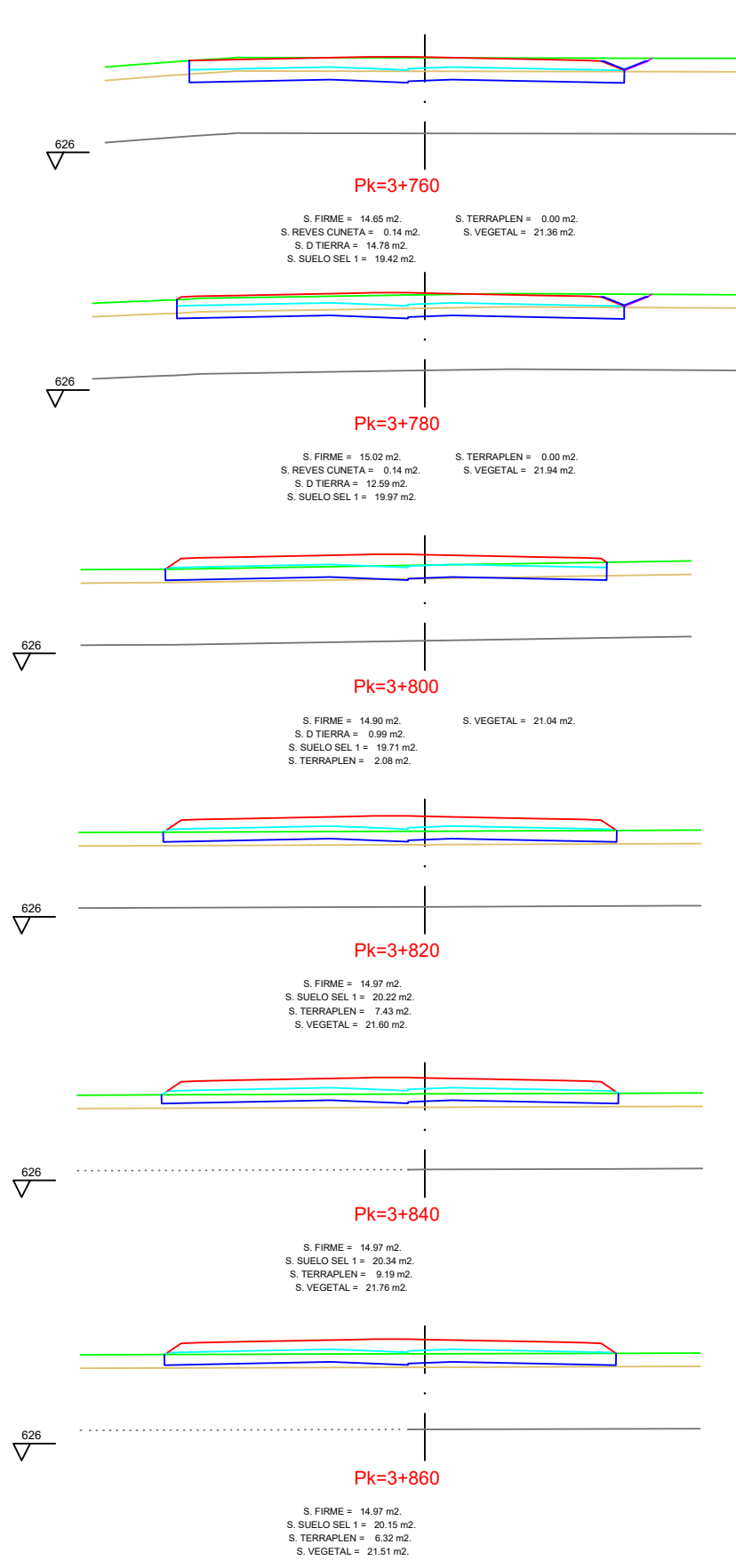
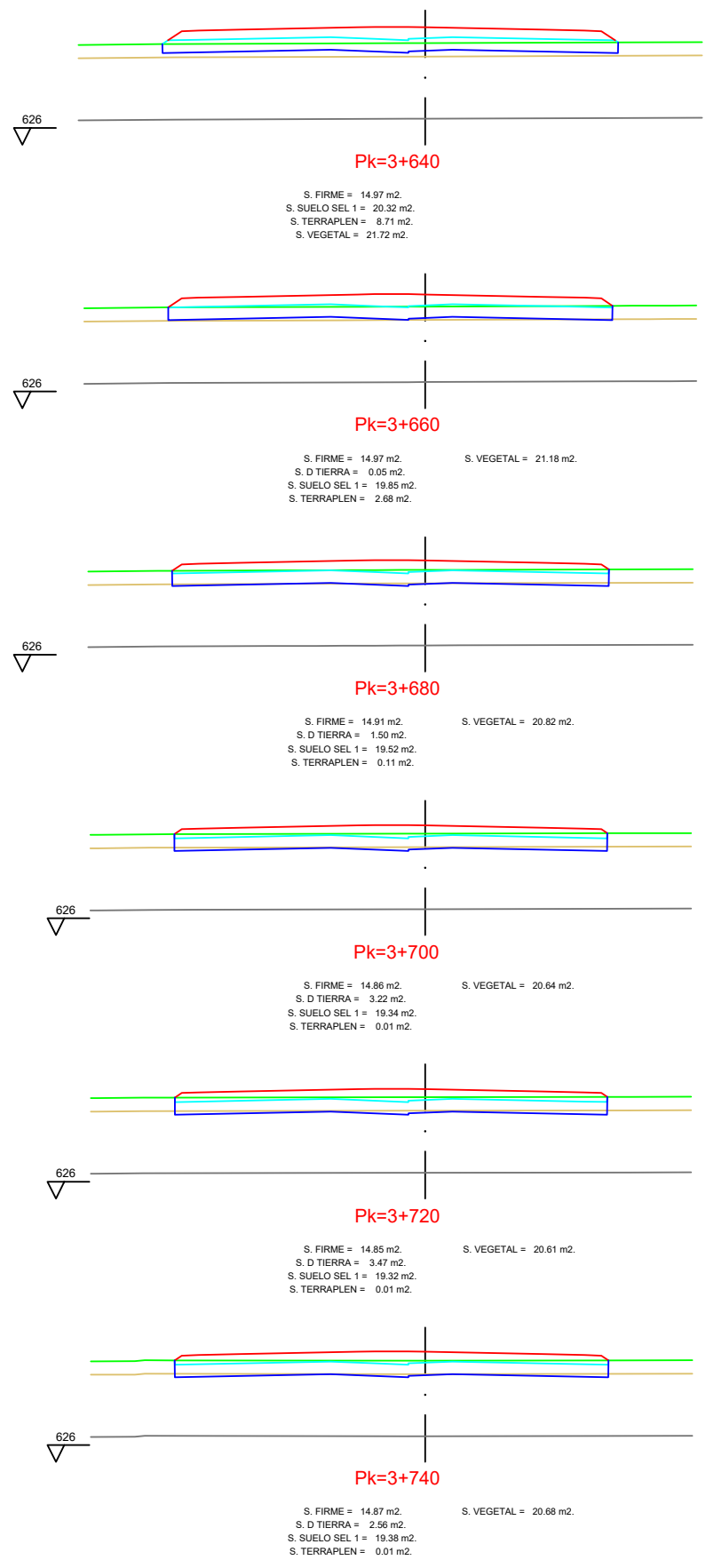




EJE 1  
PK 3+440 - 3+620

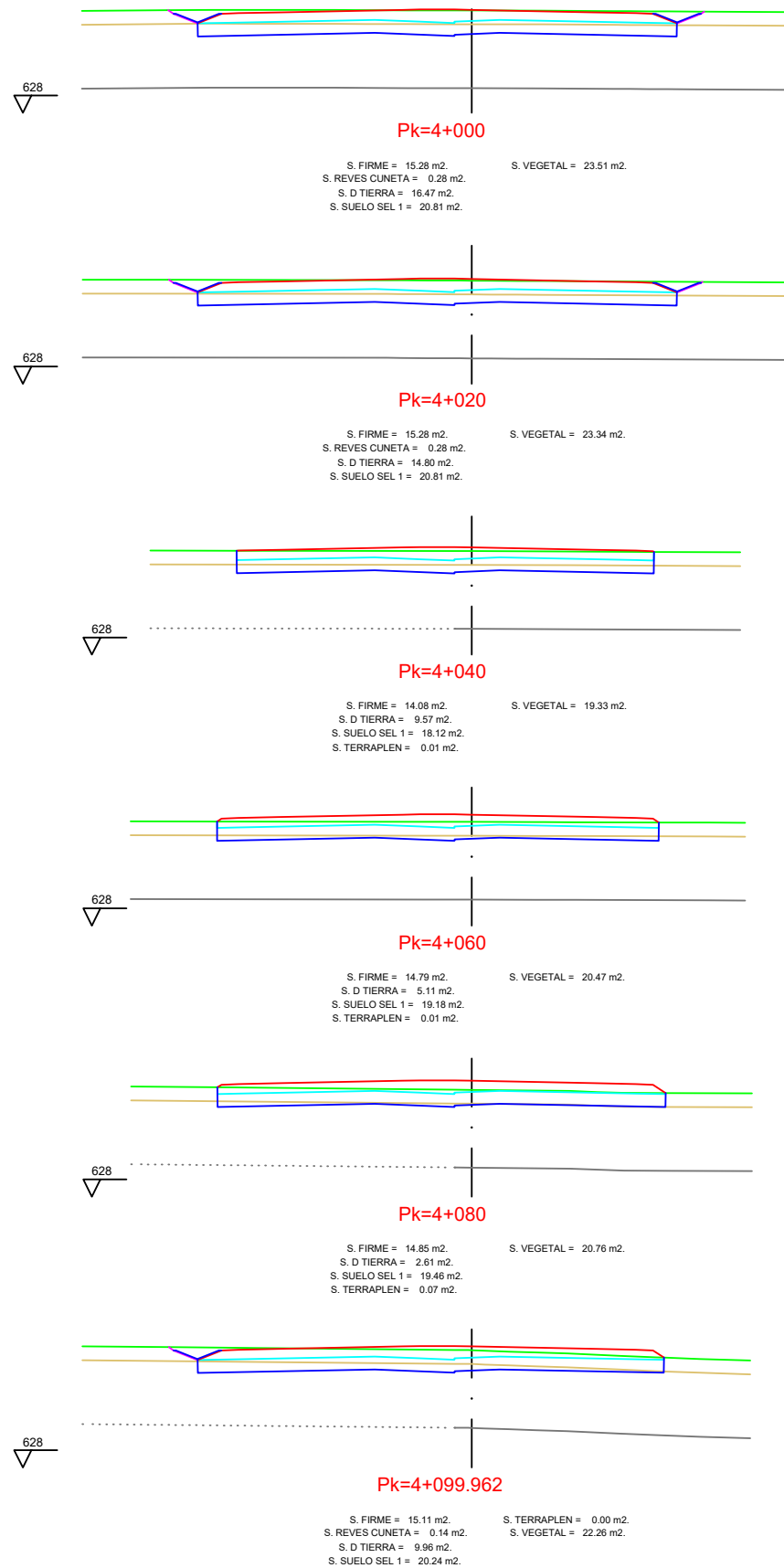


EJE 1  
PK 3+640 - 3+980

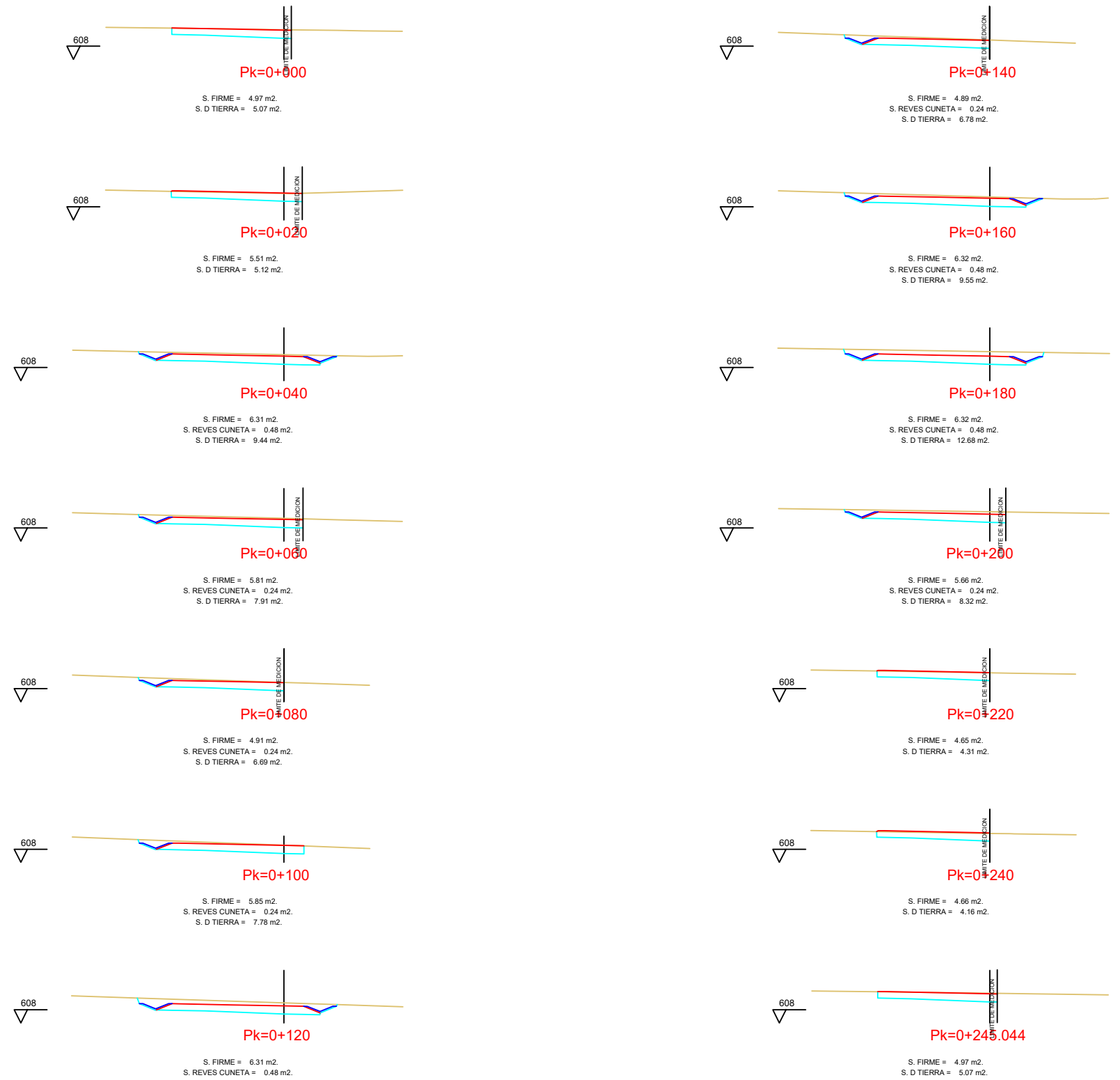




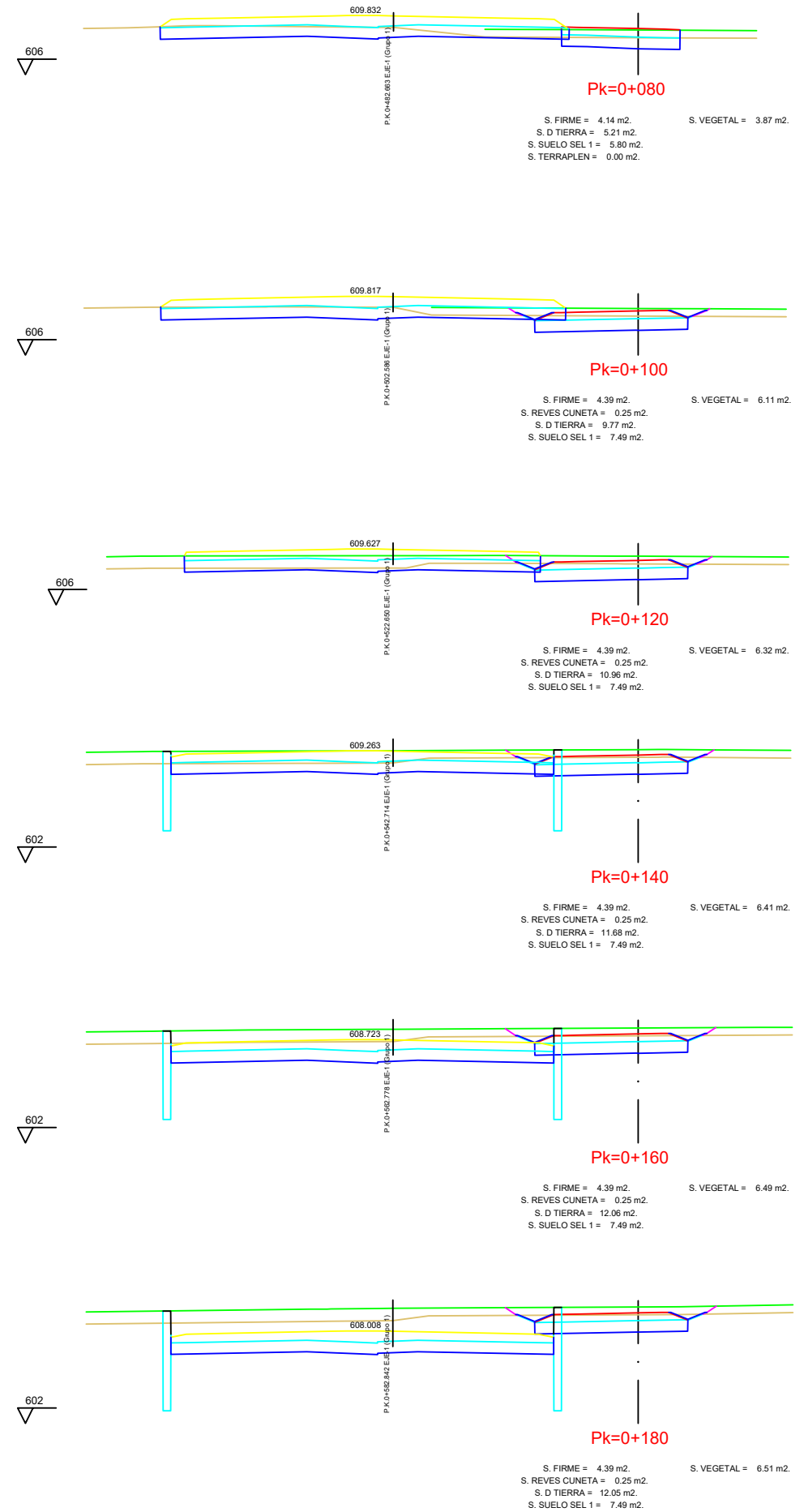
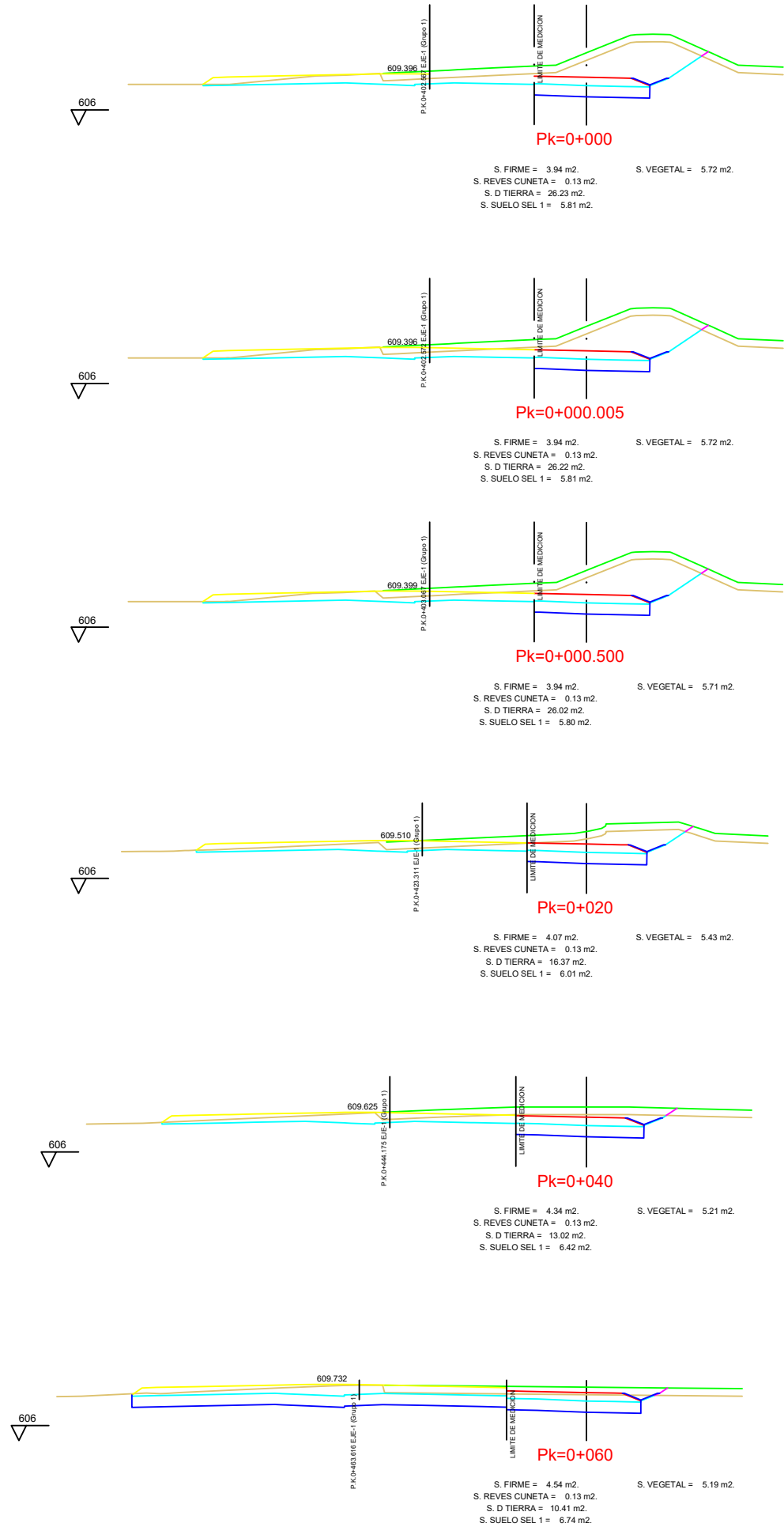
EJE 1  
PK 4+000 - 4+099,962



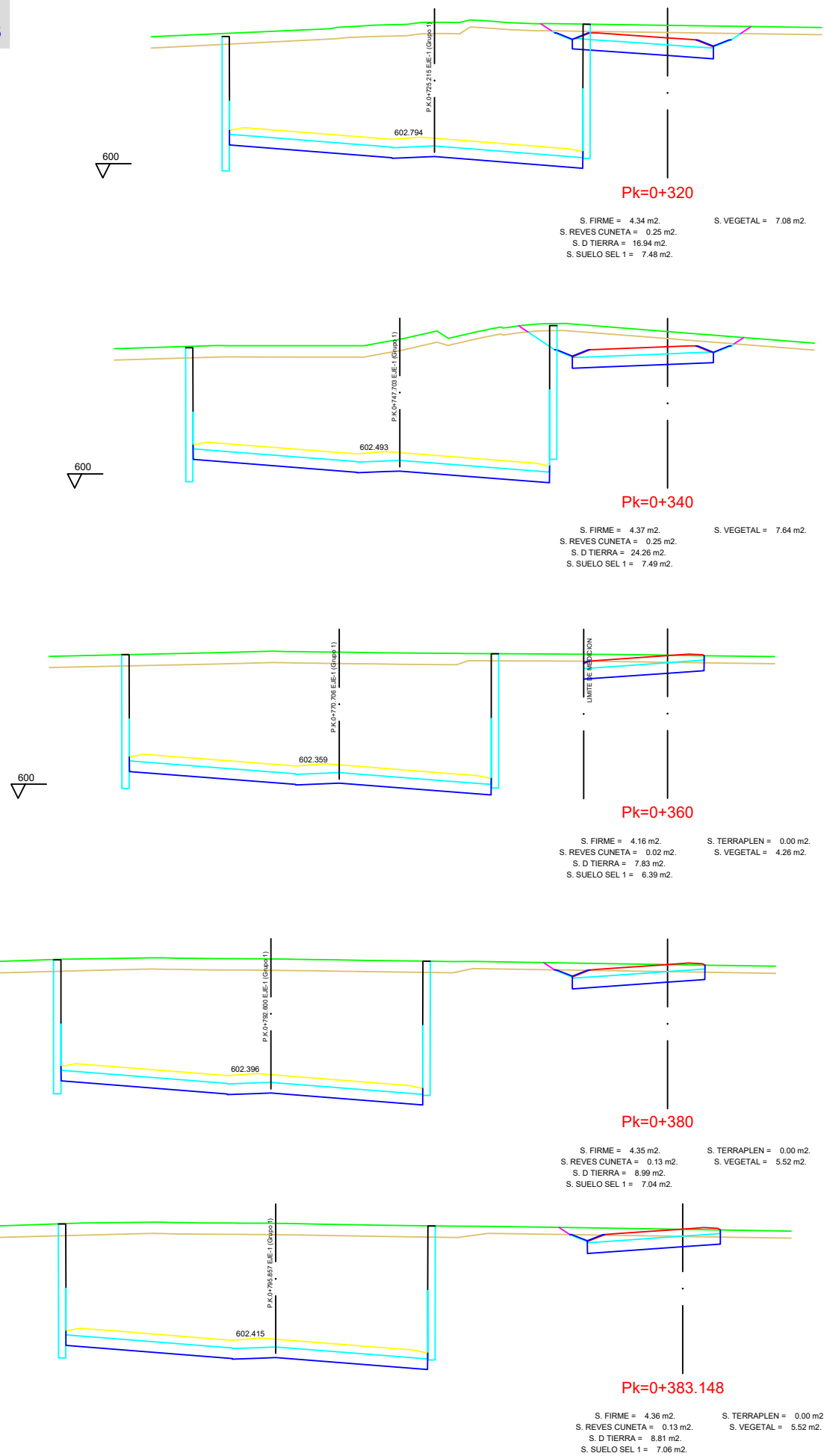
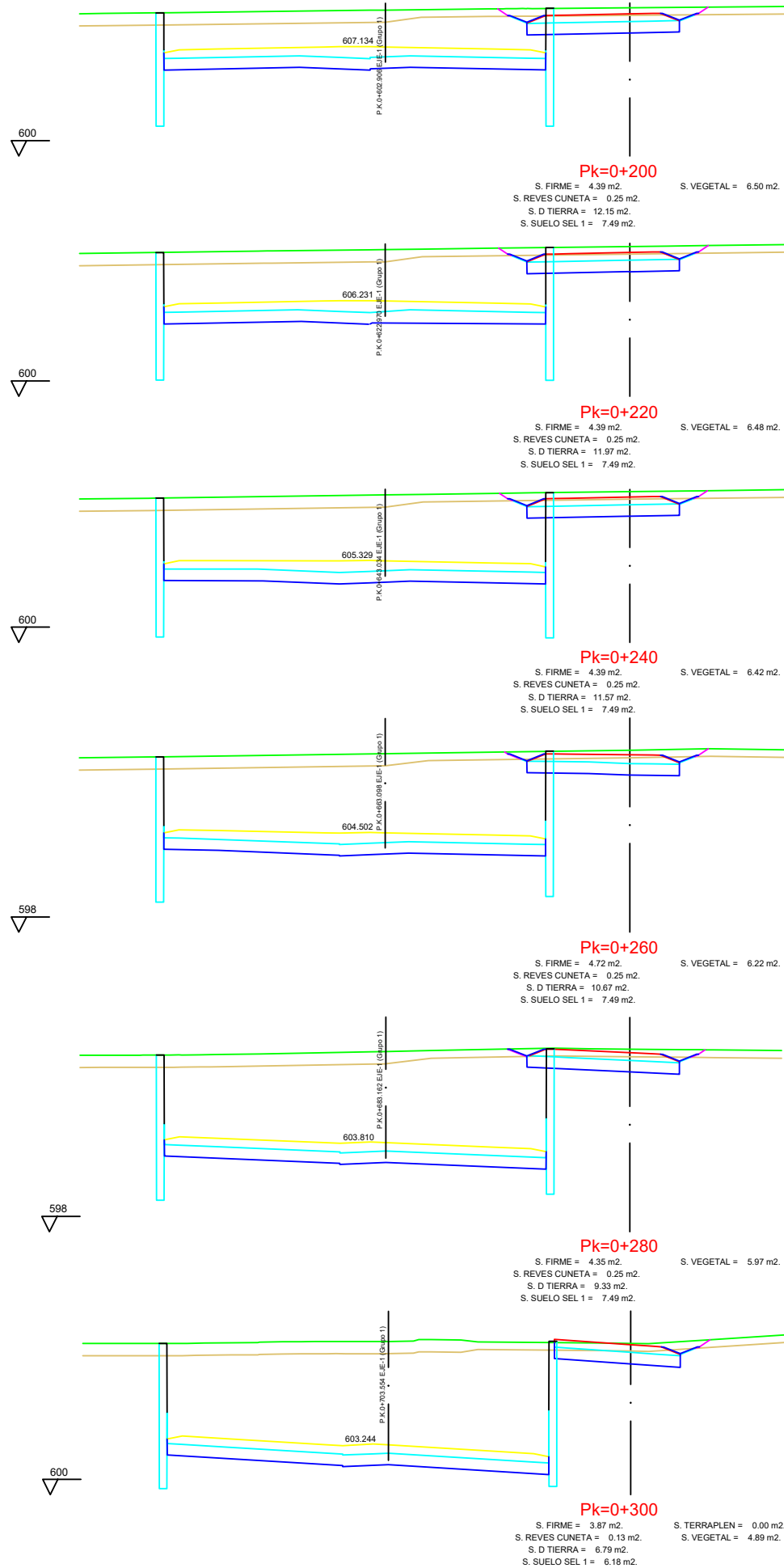
EJE 2  
PK 0+000 - 0+245,044



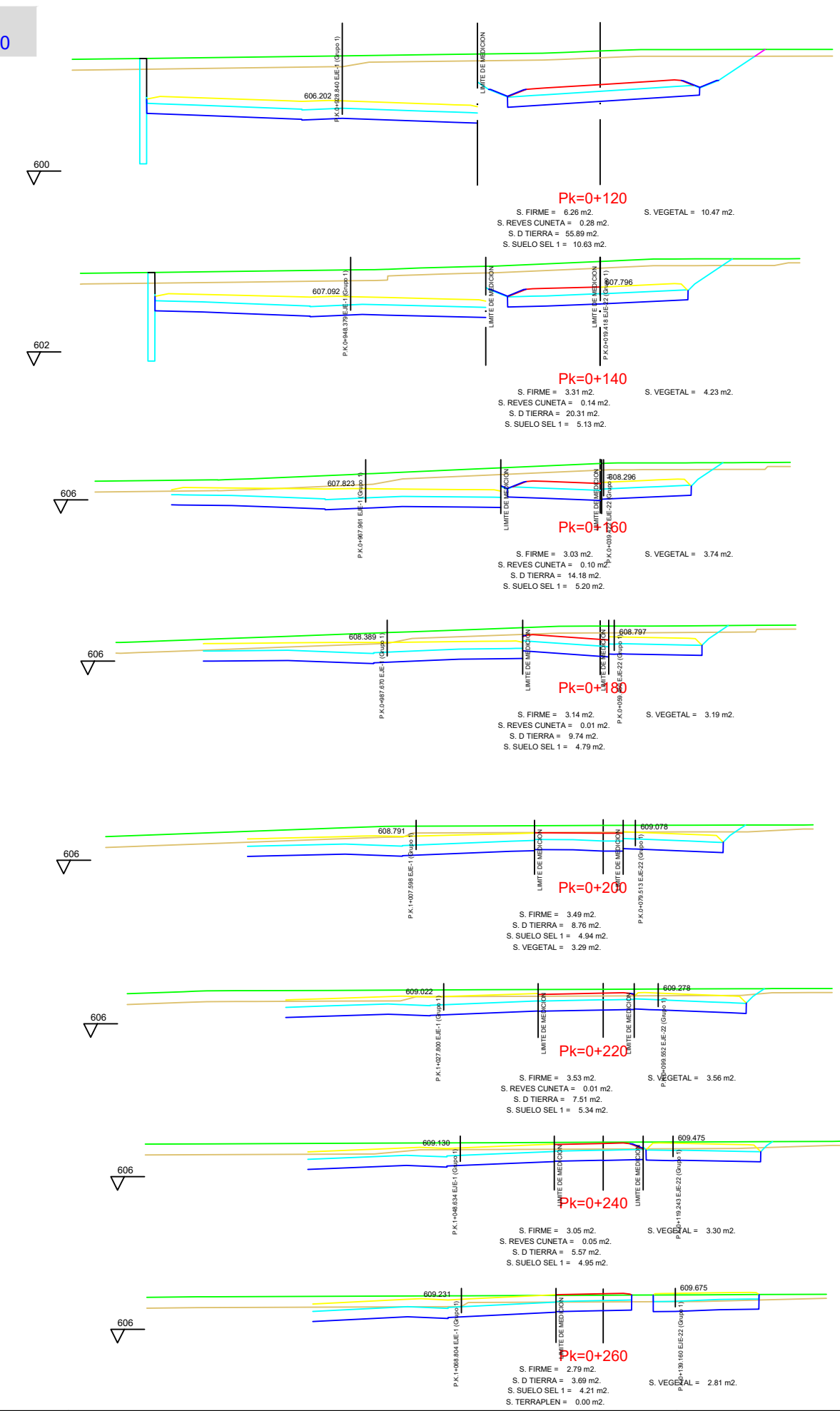
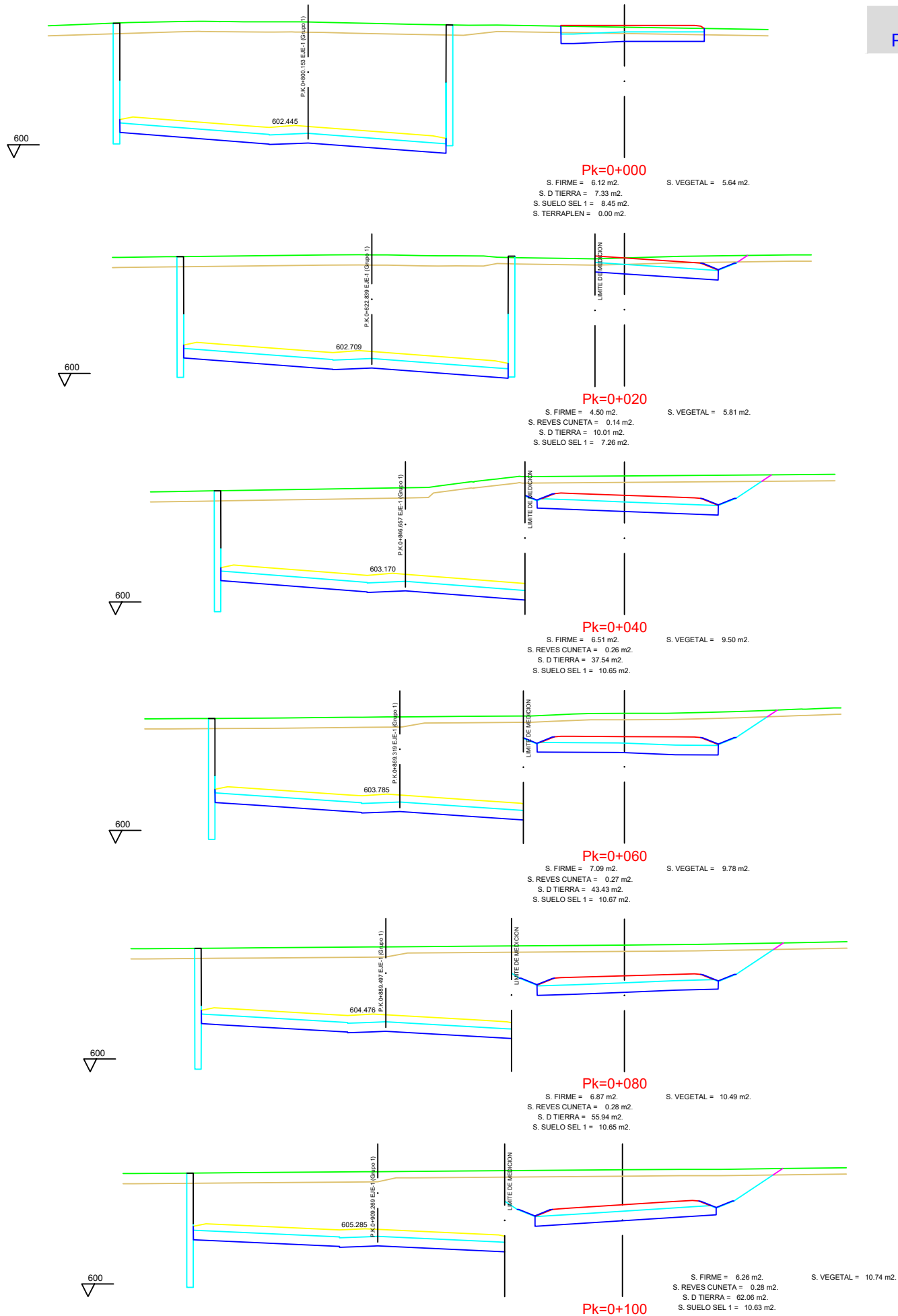
EJE 3  
PK 0+000 - 0+180



EJE 3  
PK 0+200 - 0+383,148

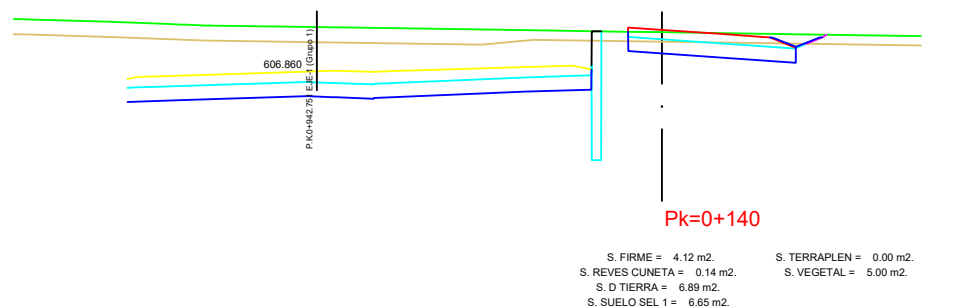
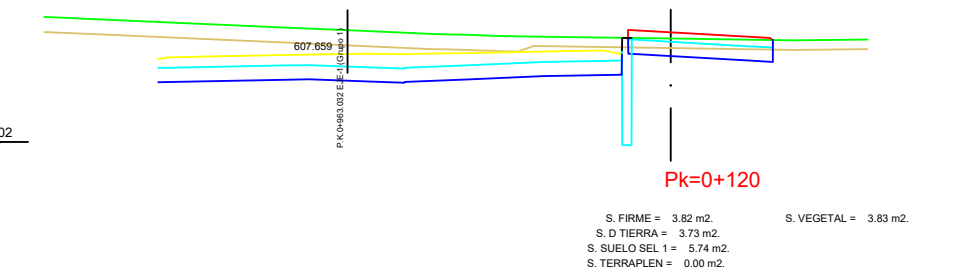
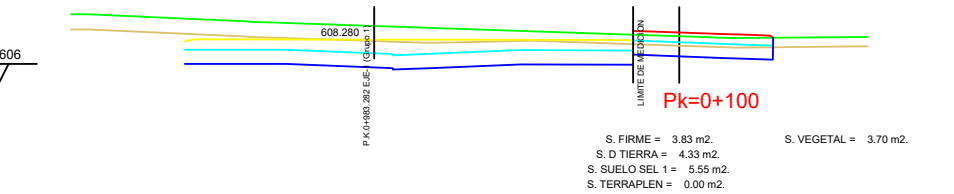
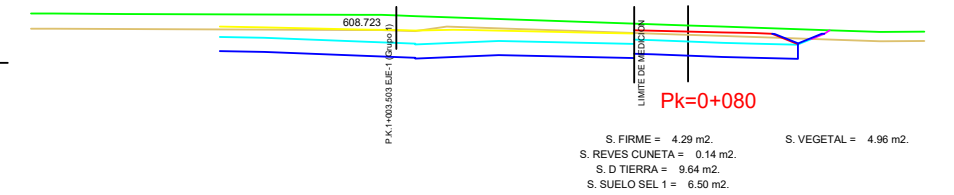
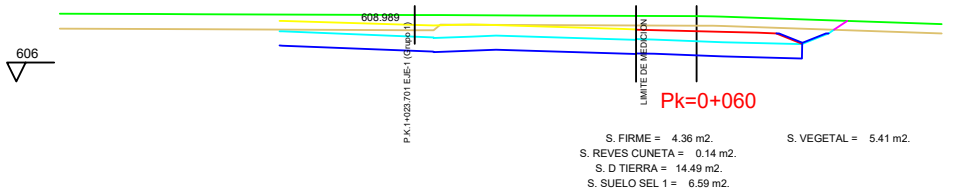
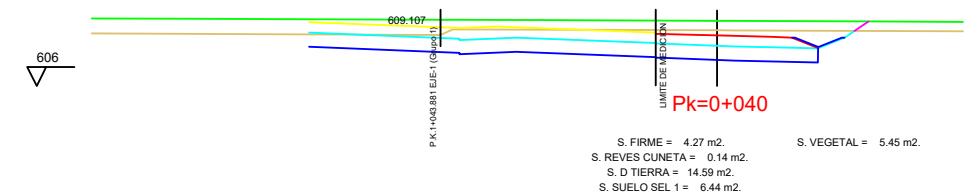
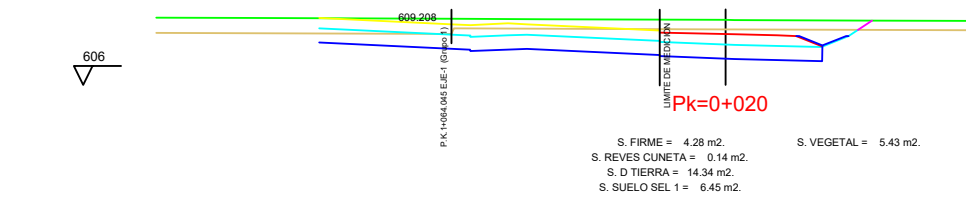
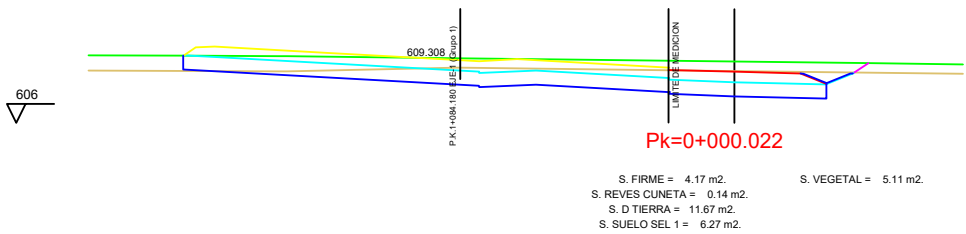
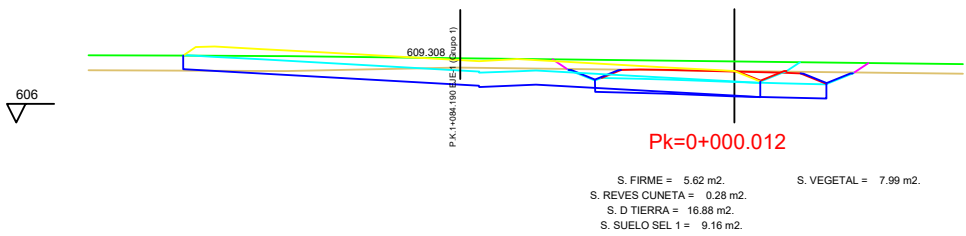
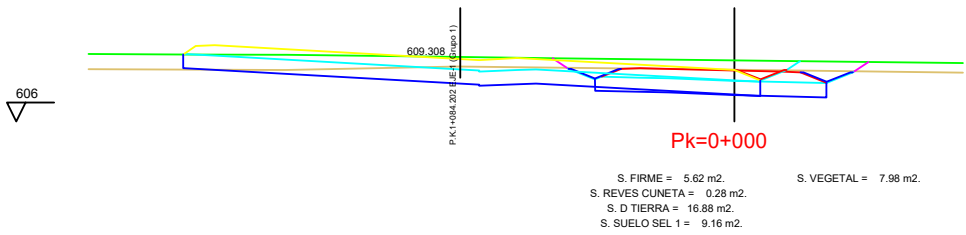


EJE 4  
PK 0+000 - 0+260

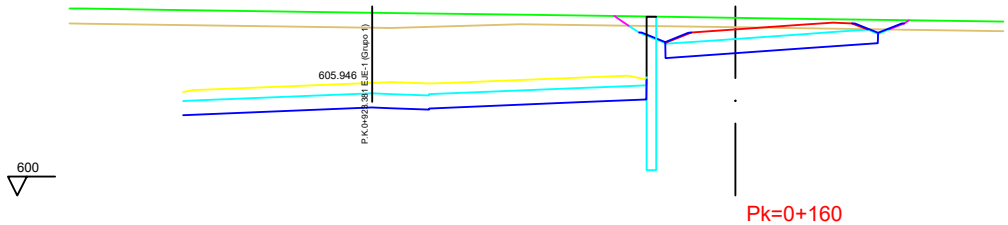




EJE 5  
PK 0+000 - 0+140

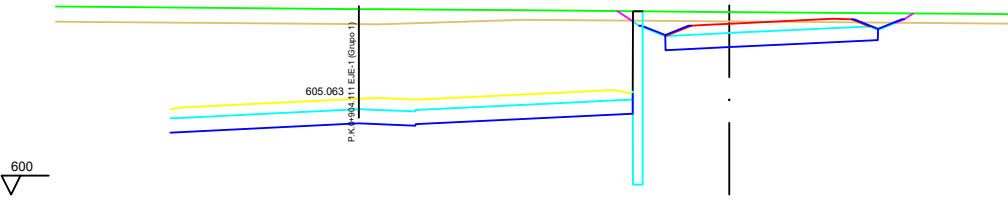


EJE 5  
PK 0+160 - 0+275,435



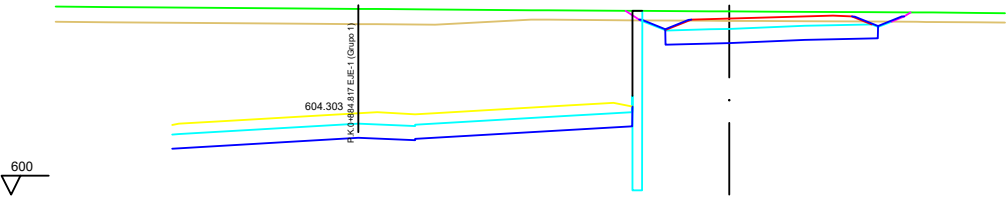
Pk=0+160

S. FIRME = 4.73 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 14.60 m2.  
S. SUELO SEL 1 = 8.36 m2.  
S. VEGETAL = 7.37 m2.



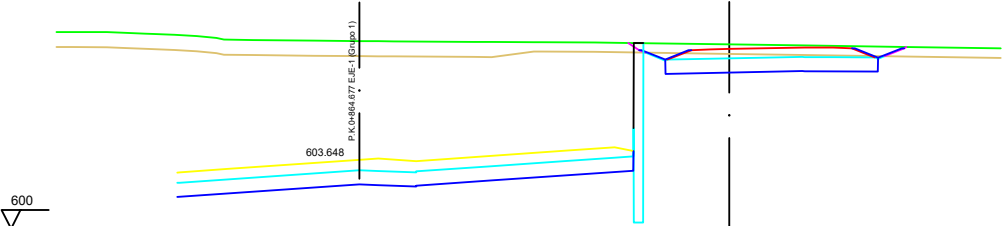
Pk=0+180

S. FIRME = 4.69 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 14.92 m2.  
S. SUELO SEL 1 = 8.39 m2.  
S. VEGETAL = 7.44 m2.



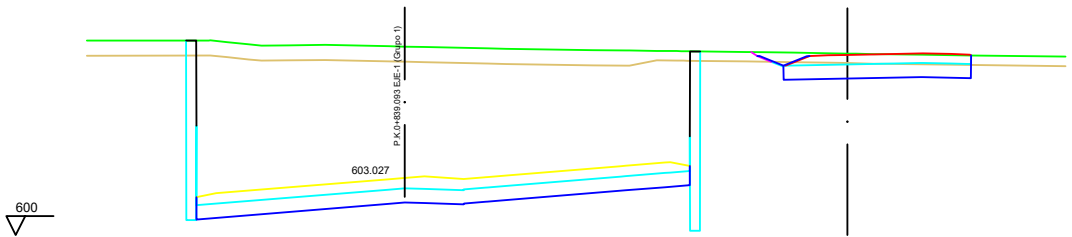
Pk=0+200

S. FIRME = 5.02 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 12.55 m2.  
S. SUELO SEL 1 = 8.41 m2.  
S. VEGETAL = 7.12 m2.



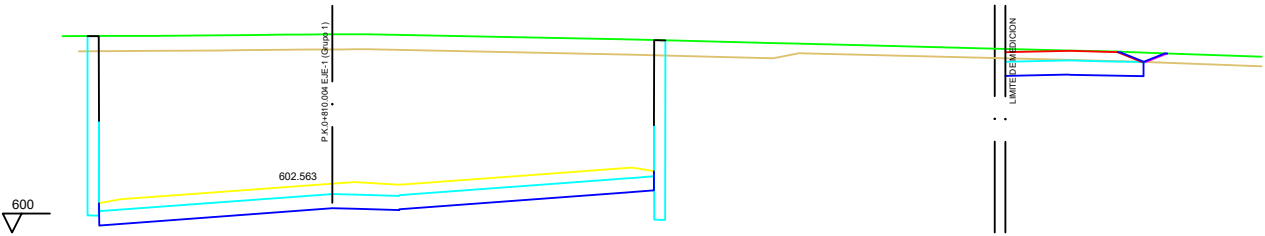
Pk=0+220

S. FIRME = 4.82 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 10.70 m2.  
S. SUELO SEL 1 = 8.42 m2.  
S. VEGETAL = 6.88 m2.



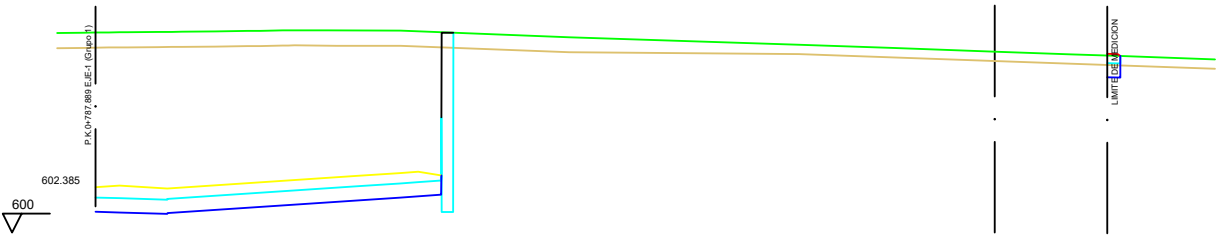
Pk=0+240

S. FIRME = 4.57 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 7.83 m2.  
S. SUELO SEL 1 = 7.43 m2.  
S. TERRAPLEN = 0.00 m2.  
S. VEGETAL = 5.58 m2.



Pk=0+260

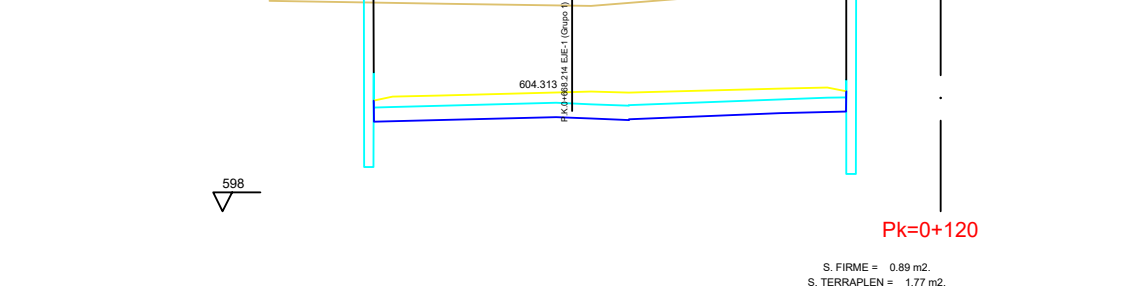
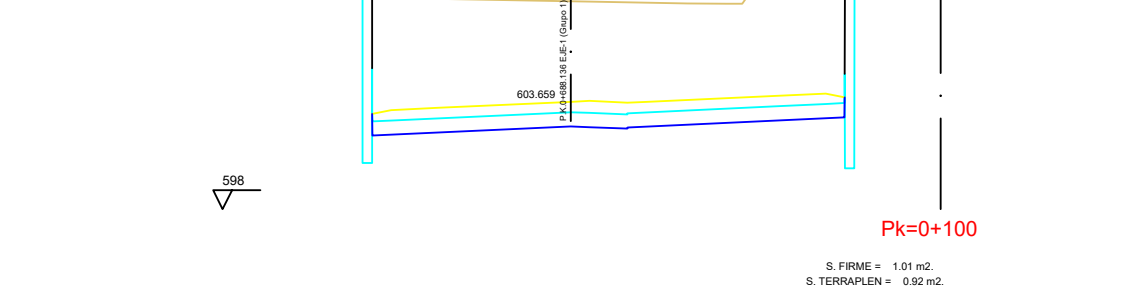
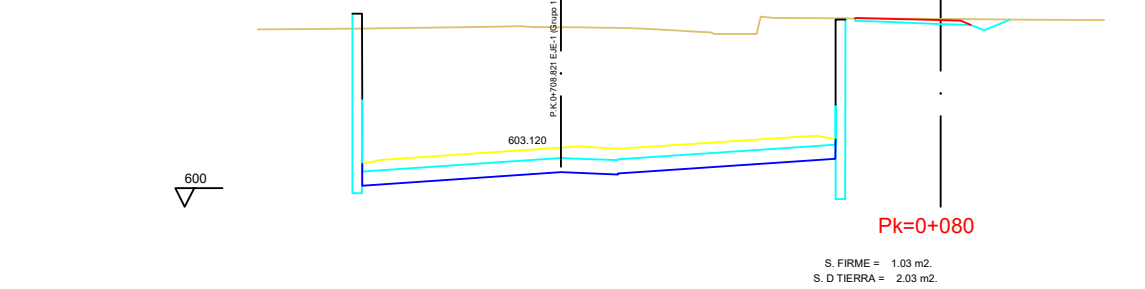
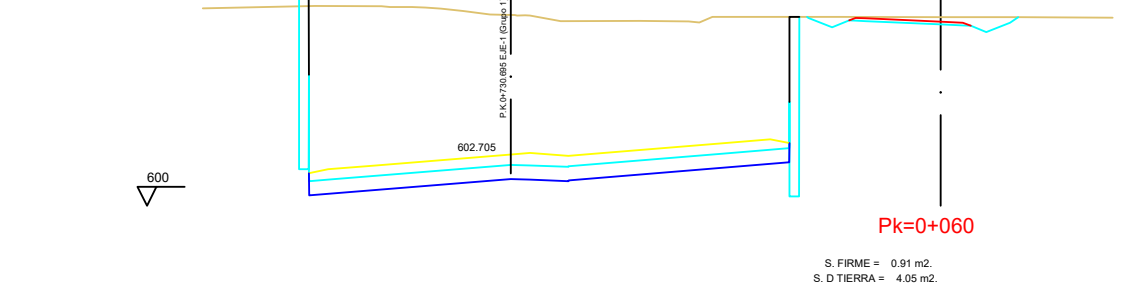
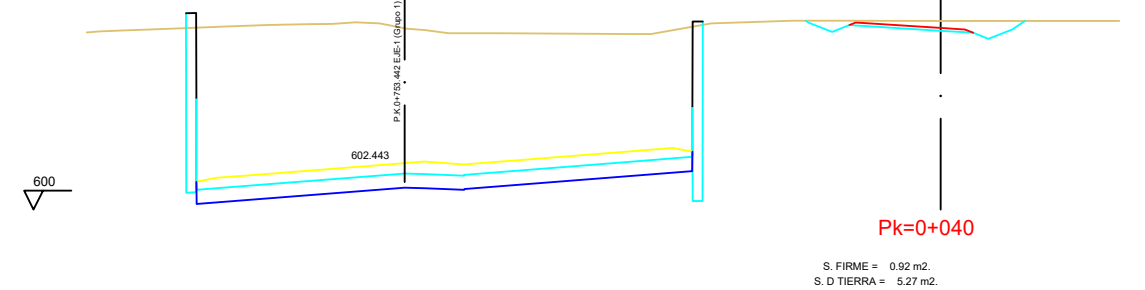
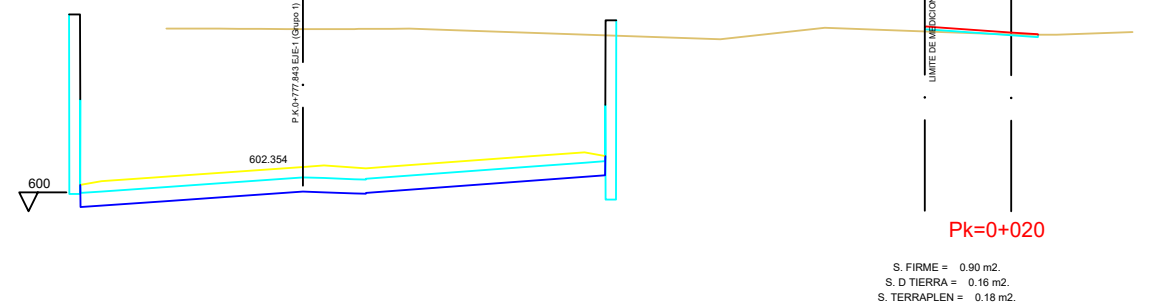
S. FIRME = 3.30 m2.  
S. REVES CUNETAS = 0.13 m2.  
S. D TIERRA = 5.94 m2.  
S. SUELO SEL 1 = 5.49 m2.  
S. VEGETAL = 4.00 m2.

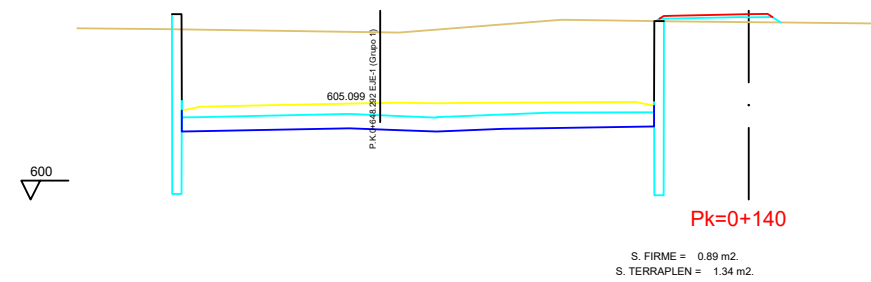


Pk=0+275.435

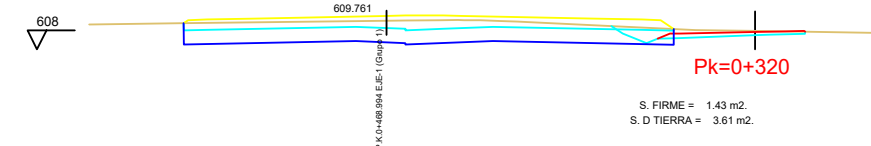
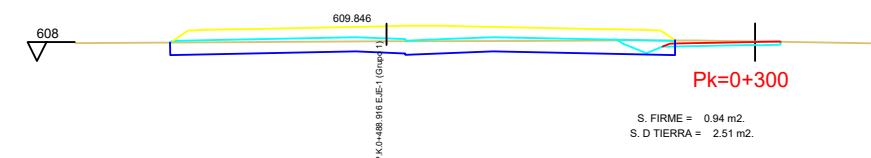
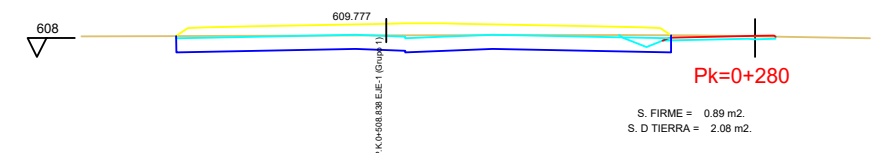
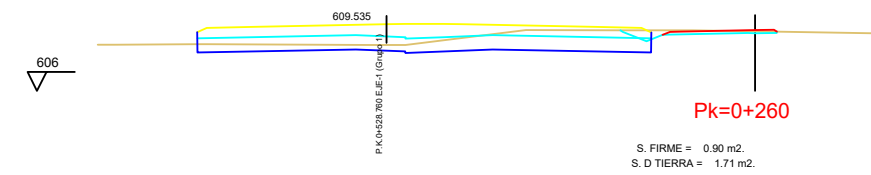
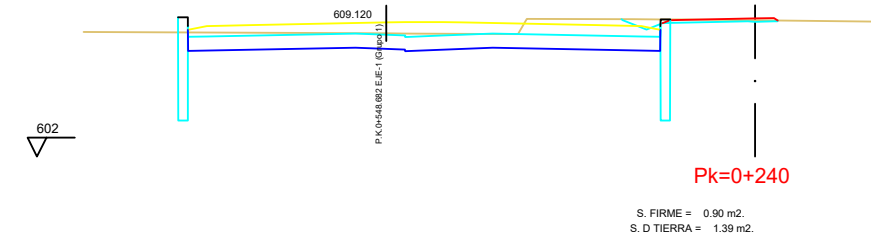
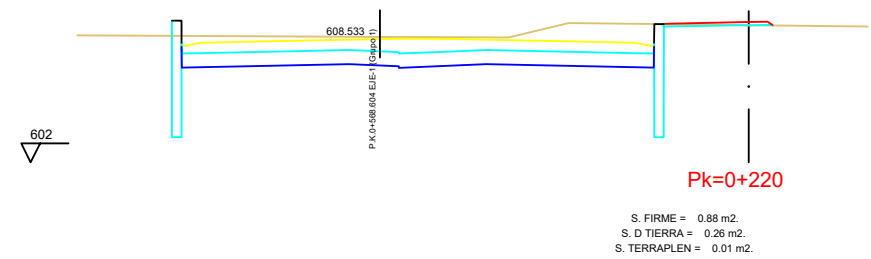
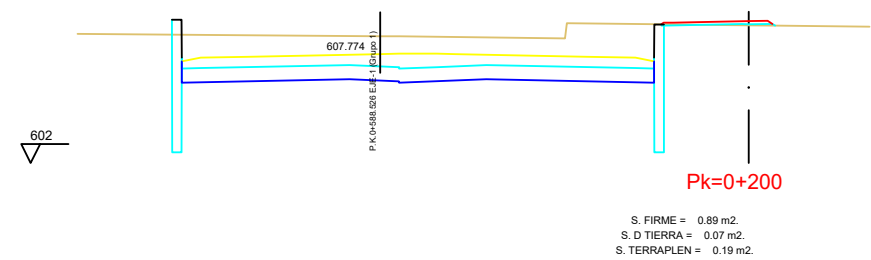
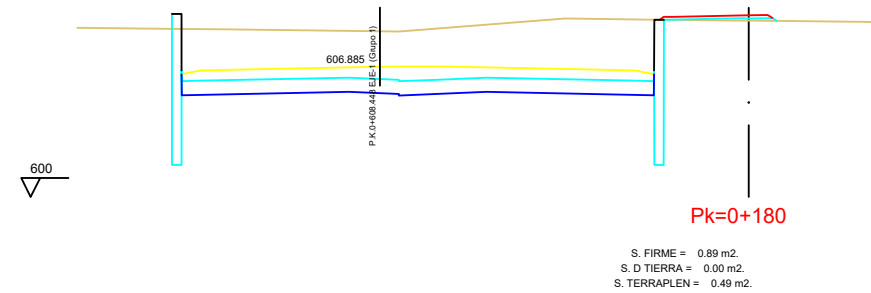
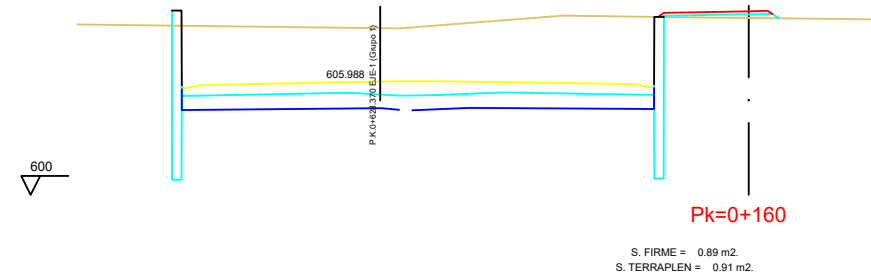
S. FIRME = 0.33 m2.  
S. D TIERRA = 0.44 m2.  
S. SUELO SEL 1 = 0.51 m2.  
S. TERRAPLEN = 0.00 m2.  
S. VEGETAL = 0.35 m2.

EJE 6  
PK 0+000 - 0+120

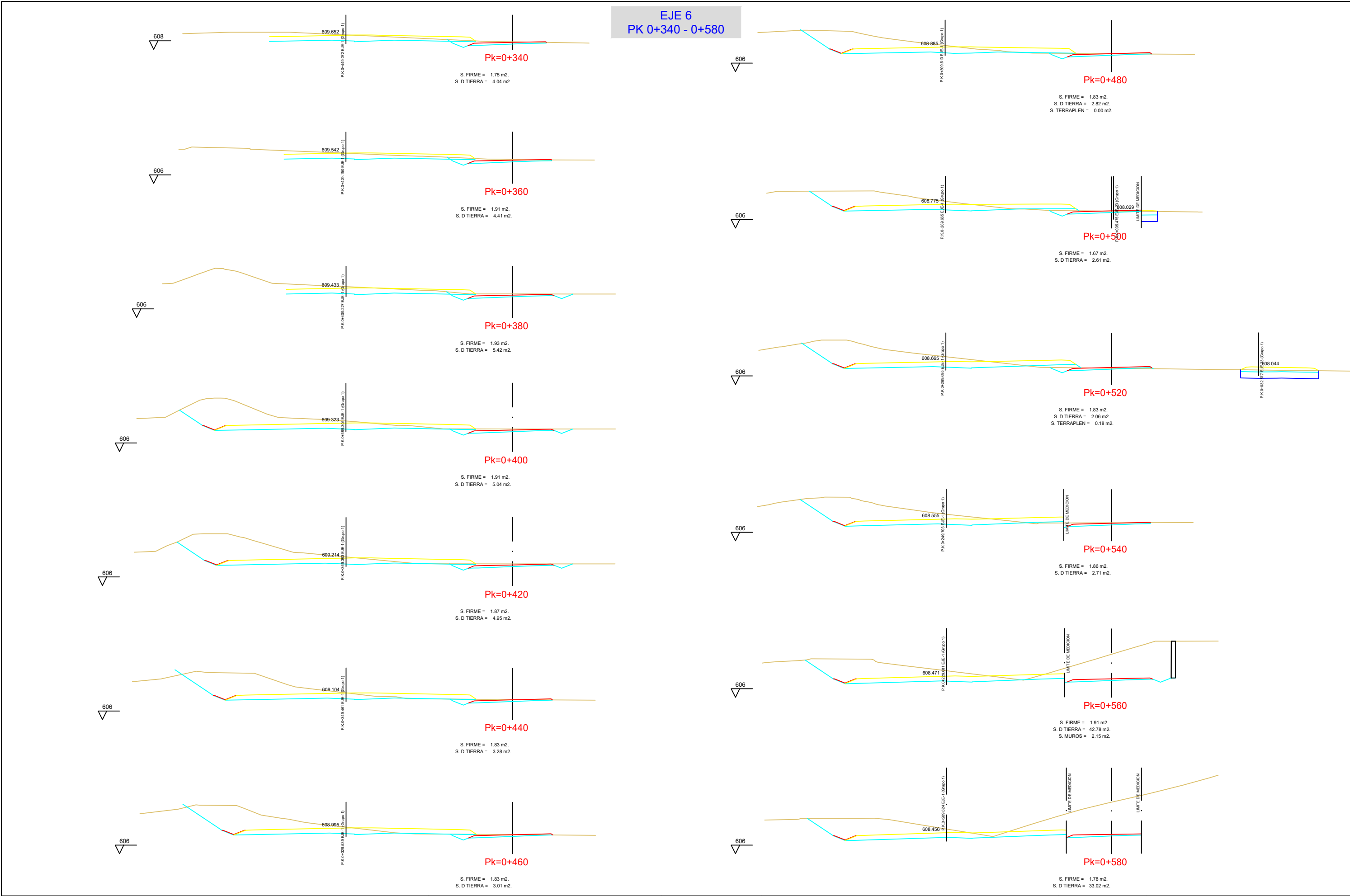




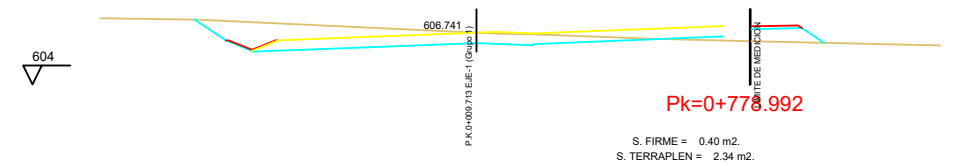
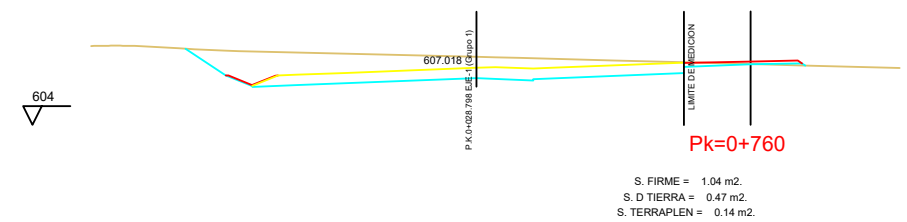
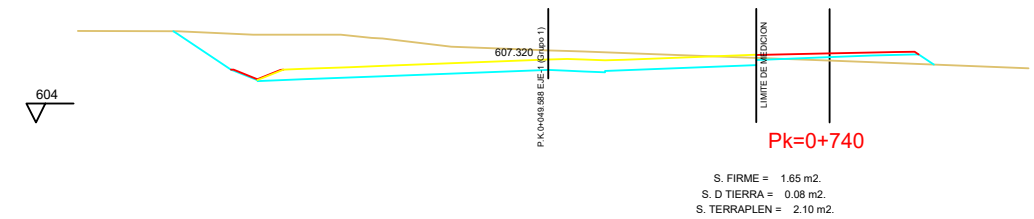
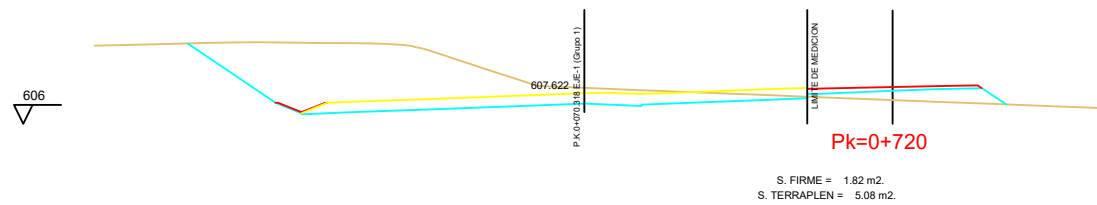
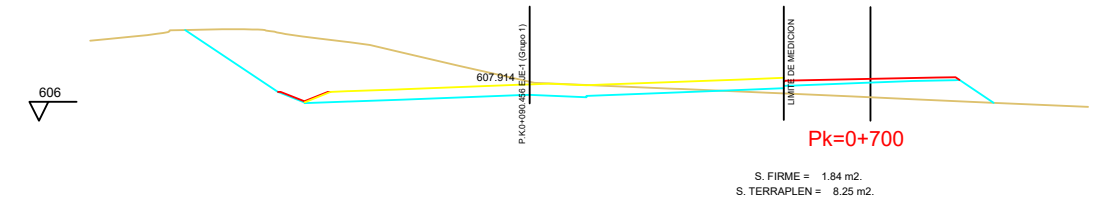
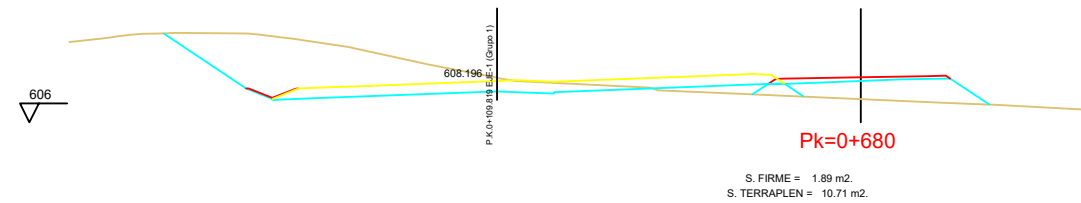
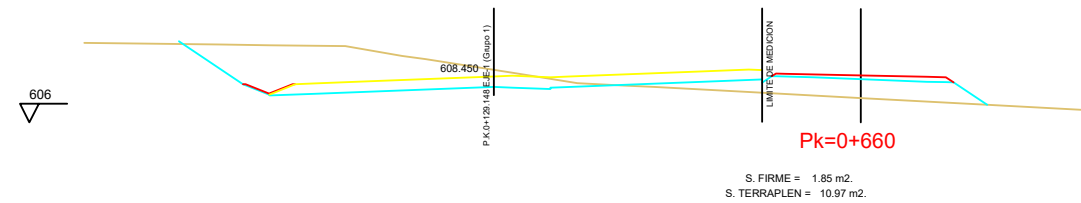
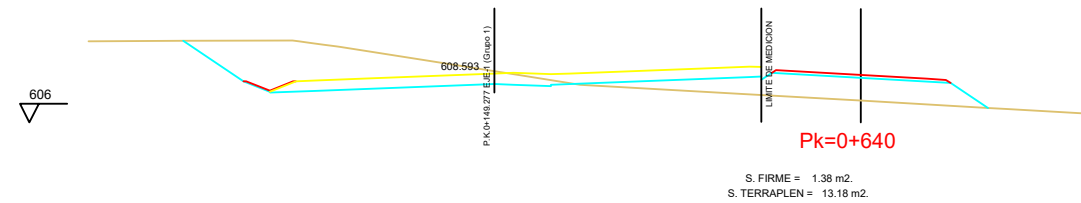
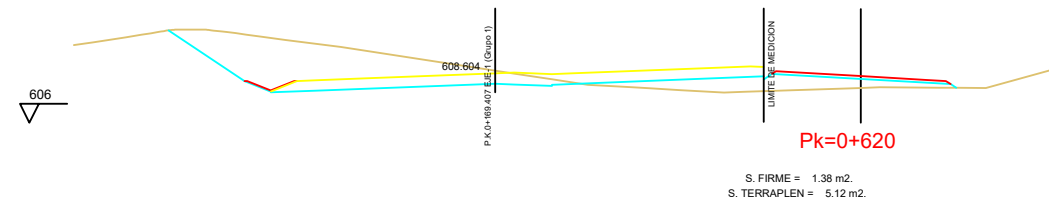
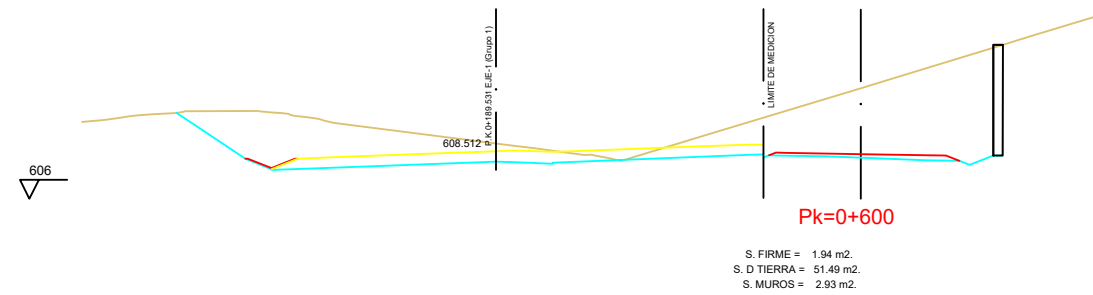
EJE 6  
PK 0+140 - 0+320



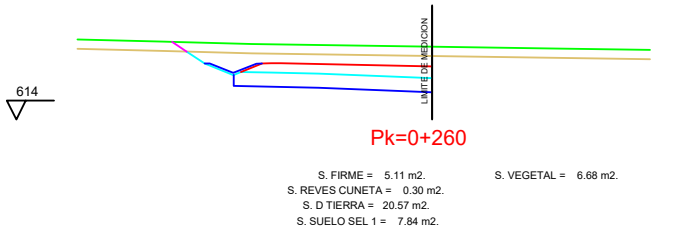
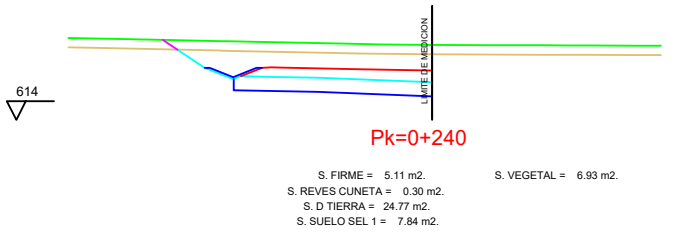
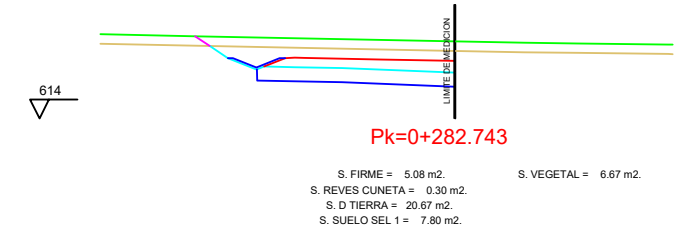
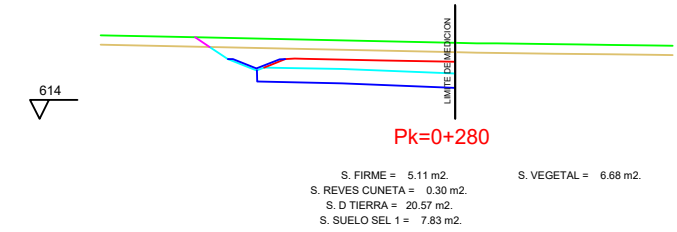
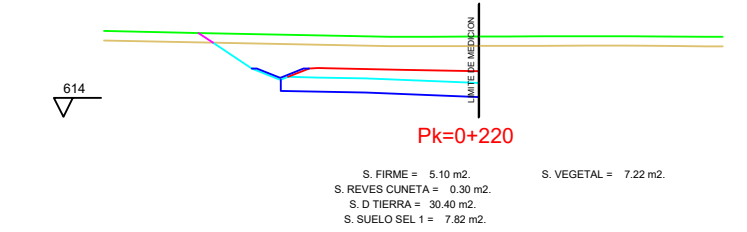
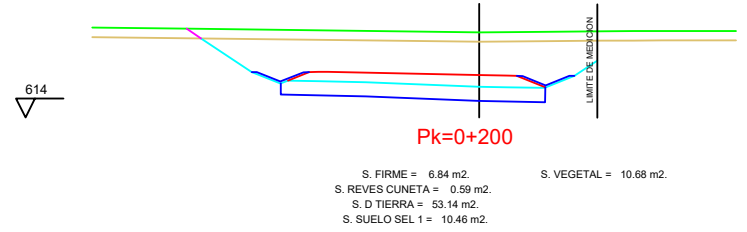
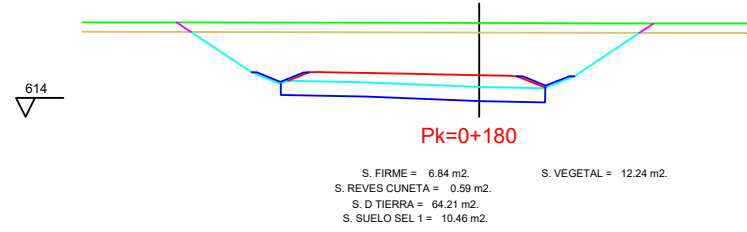
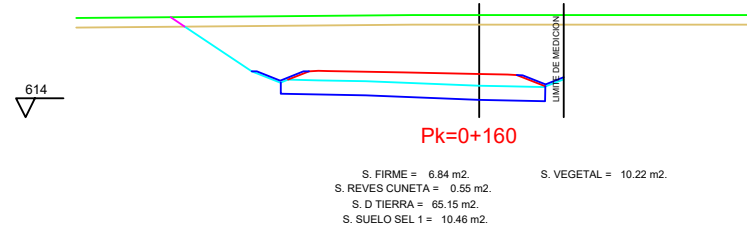
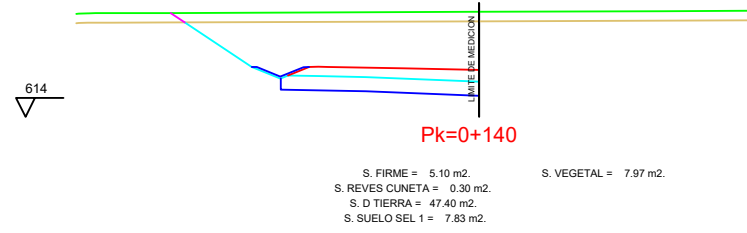
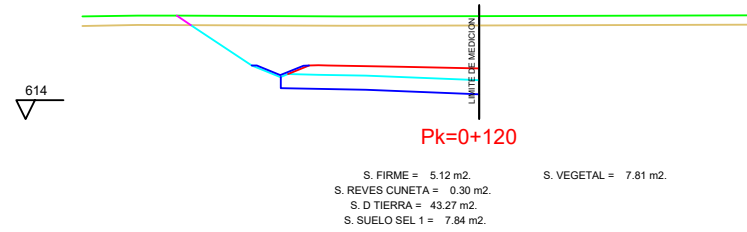
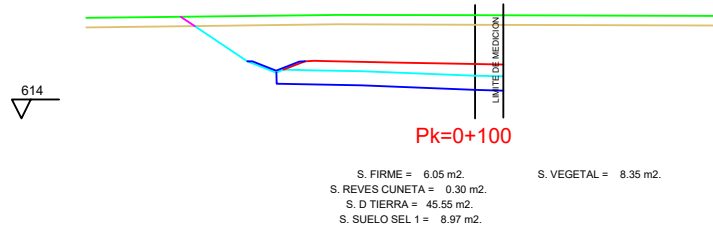
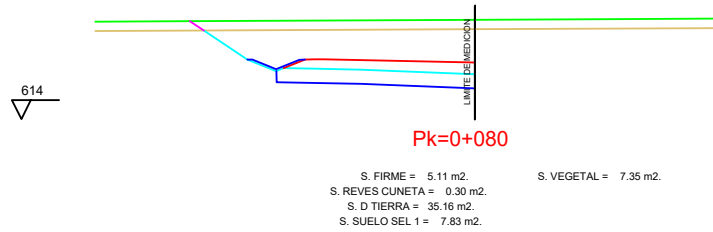
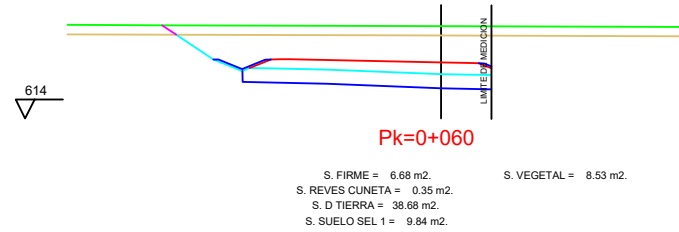
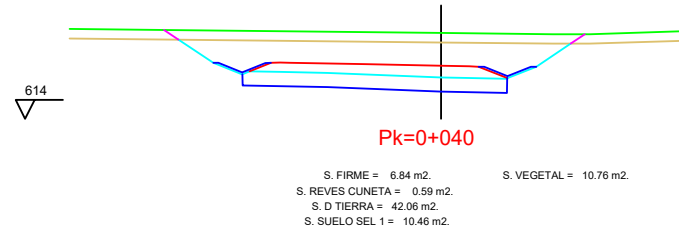
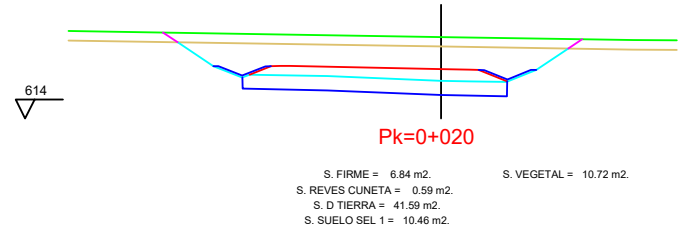
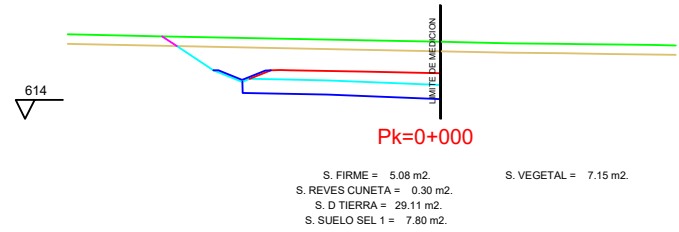




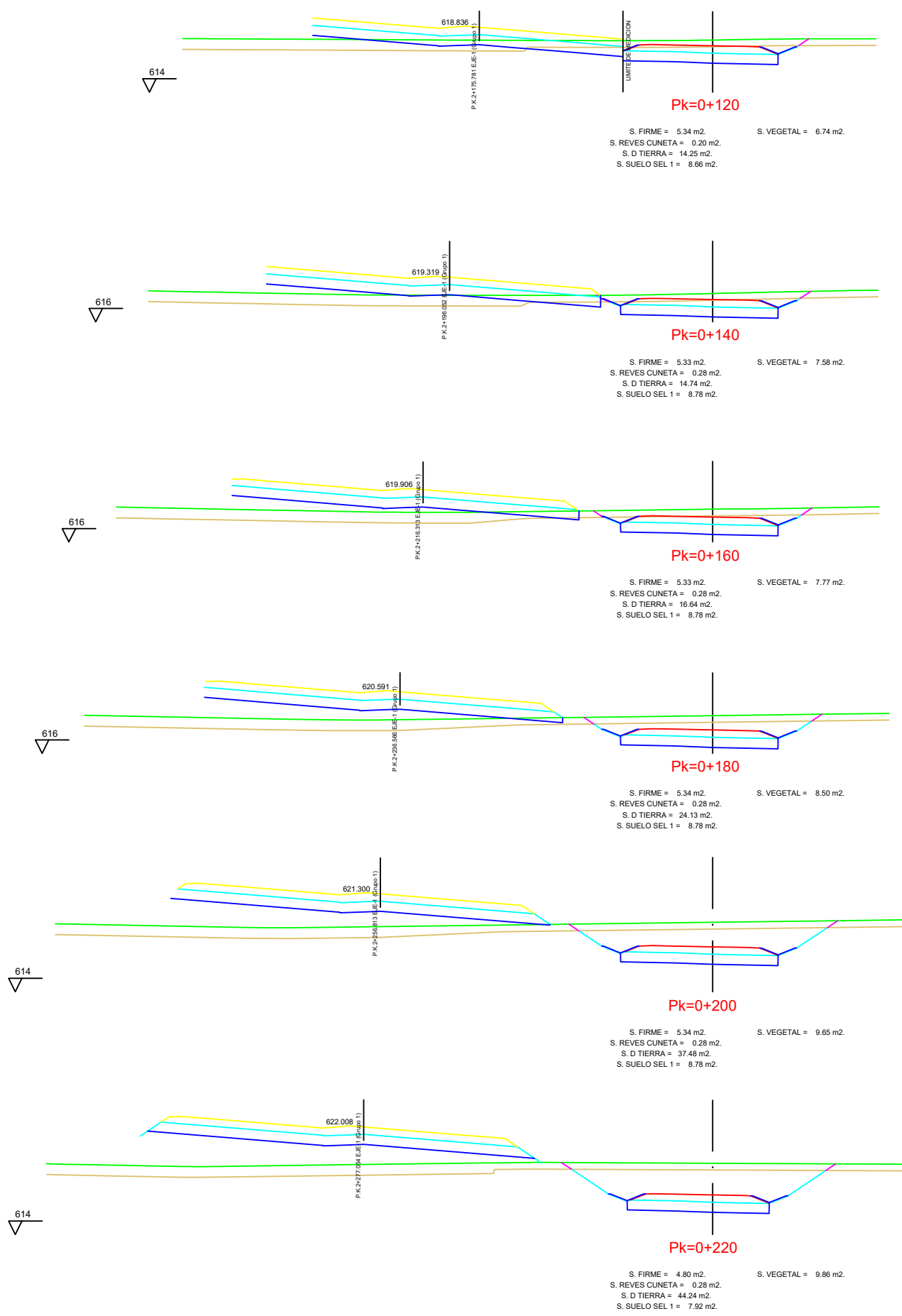
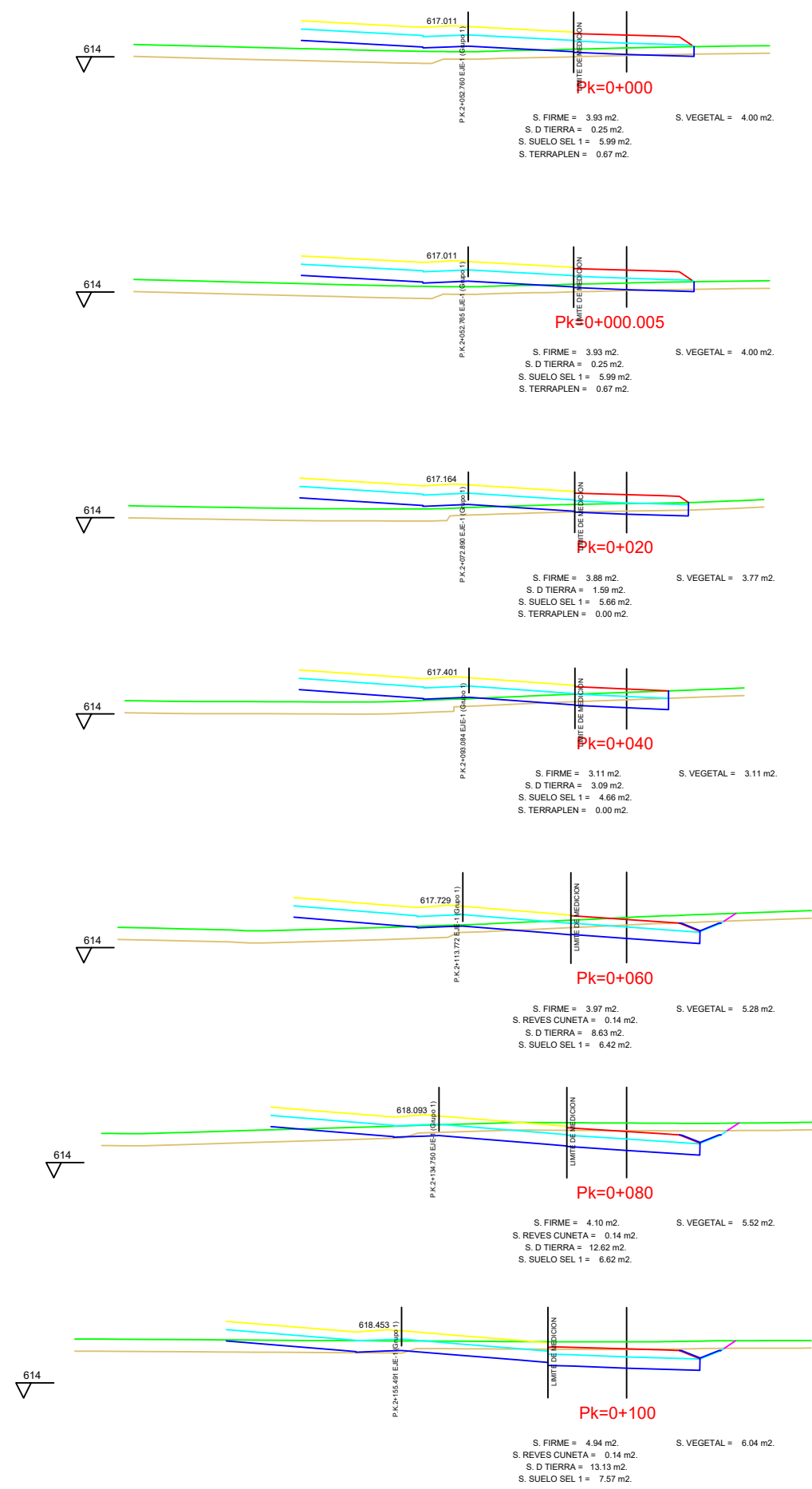
EJE 6  
PK 0+600 - 0+778.992



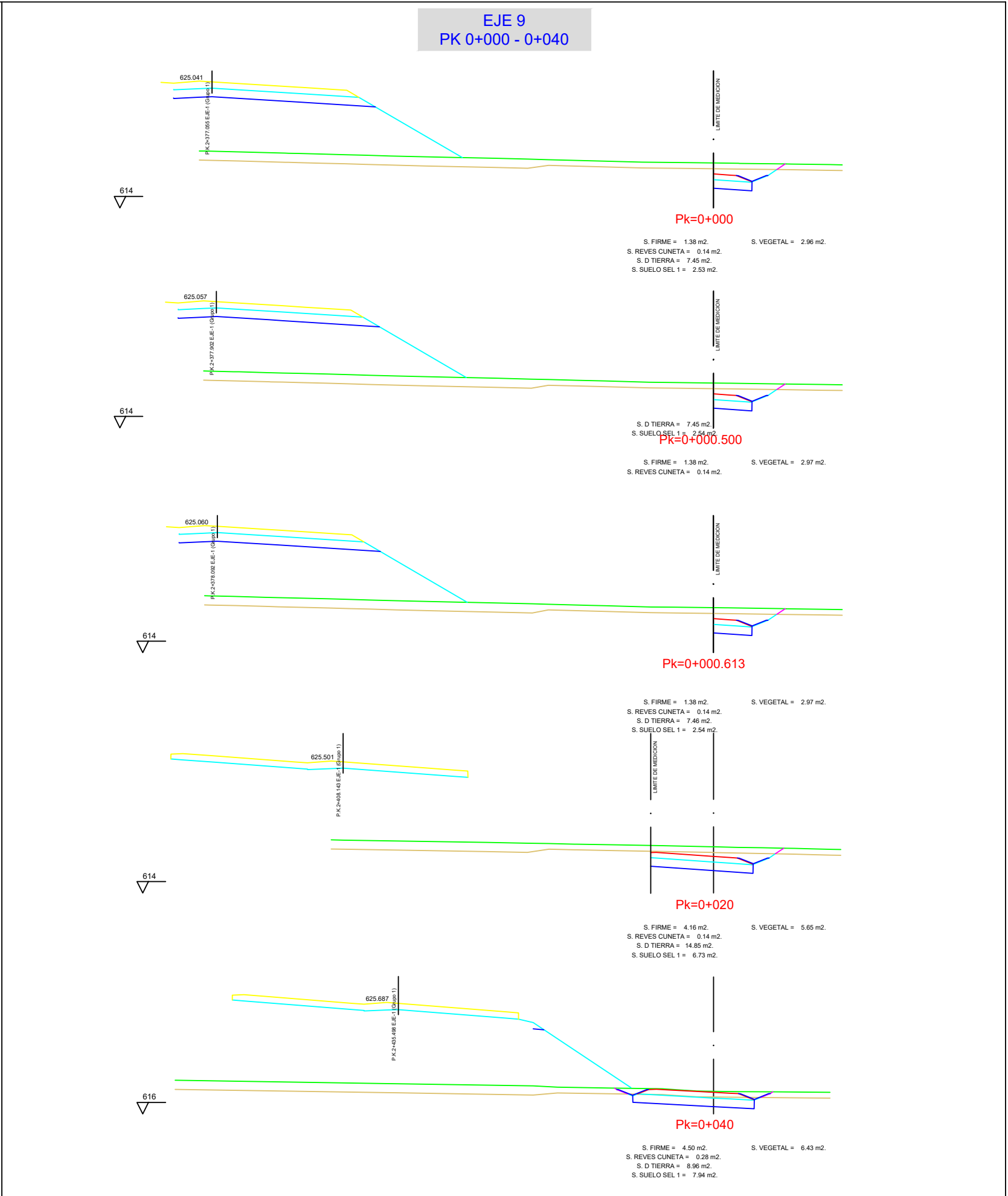
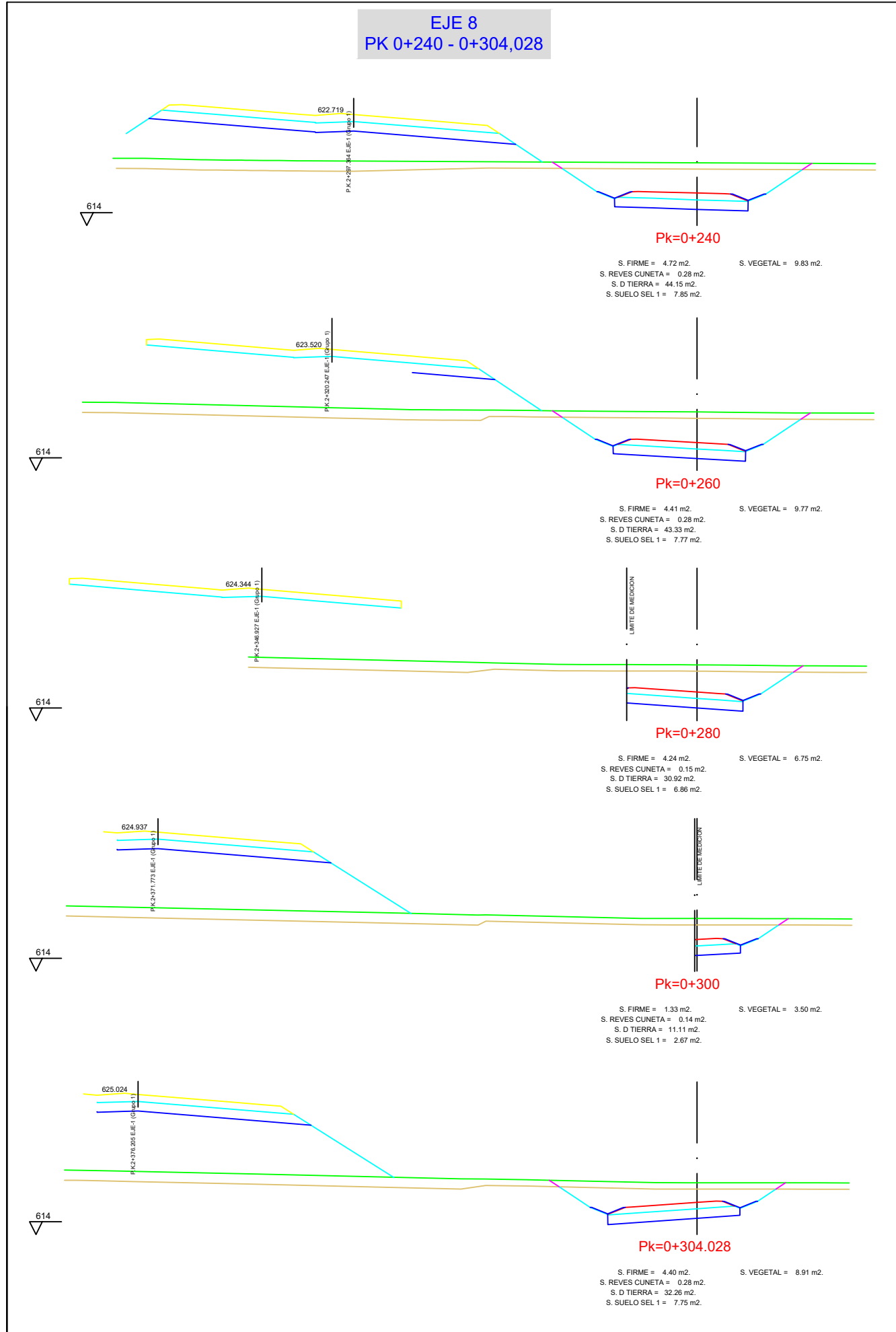
EJE 7  
PK 0+000 - 0+260



EJE 8  
PK 0+000 - 0+220

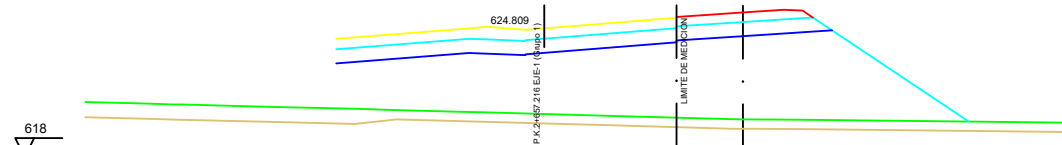






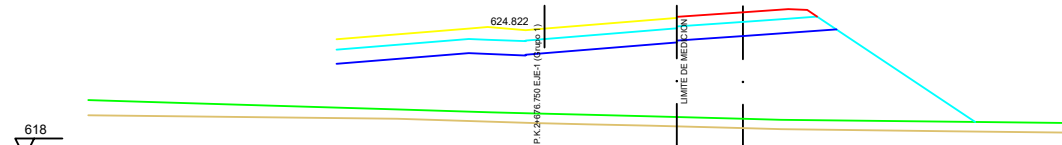


EJE 9  
PK 0+260 - 0+288,935



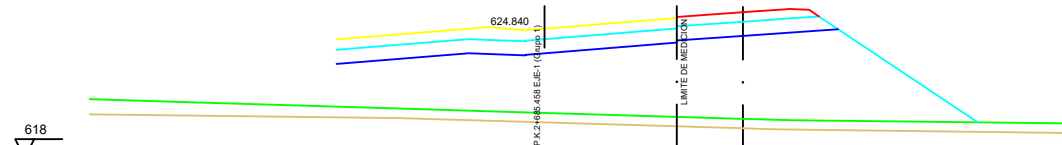
PK=0+260

S. FIRME = 3.39 m2.  
S. SUELO SEL 1 = 5.79 m2.  
S. TERRAPLEN = 61.36 m2.  
S. VEGETAL = 7.73 m2.



PK=0+280

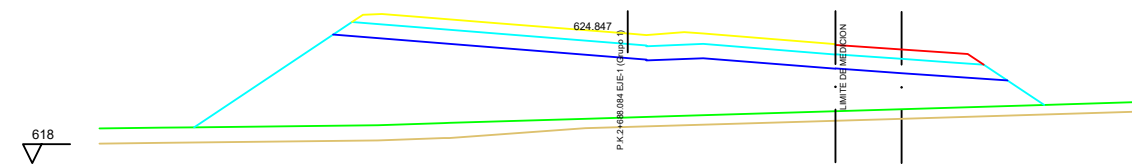
S. FIRME = 3.50 m2.  
S. SUELO SEL 1 = 5.96 m2.  
S. TERRAPLEN = 63.05 m2.  
S. VEGETAL = 7.90 m2.



PK=0+288.935

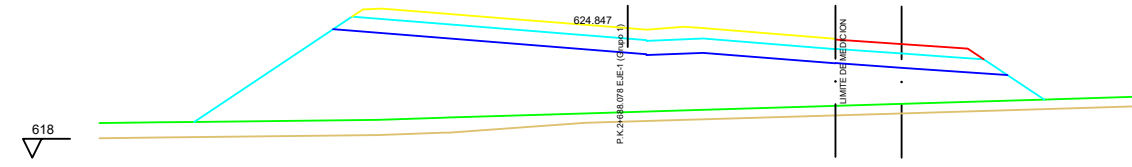
S. FIRME = 3.55 m2.  
S. SUELO SEL 1 = 6.03 m2.  
S. TERRAPLEN = 63.92 m2.  
S. VEGETAL = 7.97 m2.

EJE 10  
PK 0+000 - 0+060



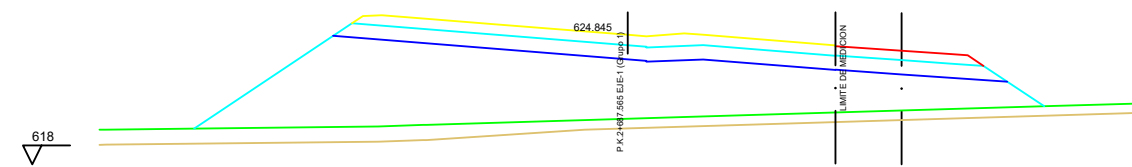
PK=0+000

S. FIRME = 3.71 m2.  
S. SUELO SEL 1 = 6.35 m2.  
S. TERRAPLEN = 23.28 m2.  
S. VEGETAL = 5.52 m2.



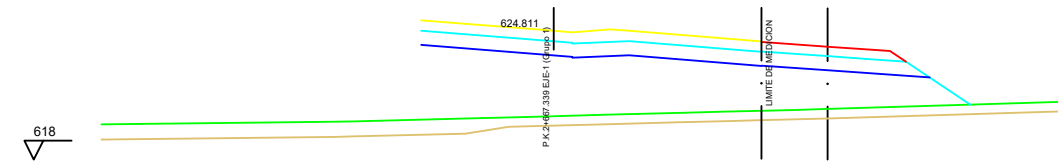
PK=0+000.005

S. FIRME = 3.71 m2.  
S. SUELO SEL 1 = 6.35 m2.  
S. TERRAPLEN = 23.29 m2.  
S. VEGETAL = 5.52 m2.



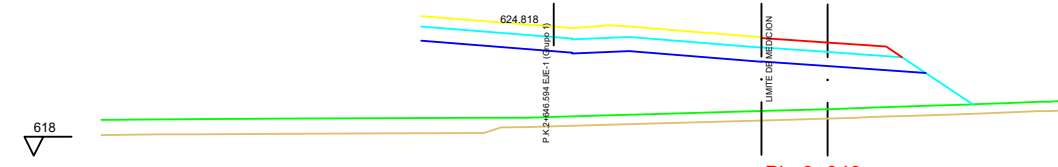
PK=0+000.500

S. FIRME = 3.71 m2.  
S. SUELO SEL 1 = 6.35 m2.  
S. TERRAPLEN = 23.31 m2.  
S. VEGETAL = 5.52 m2.



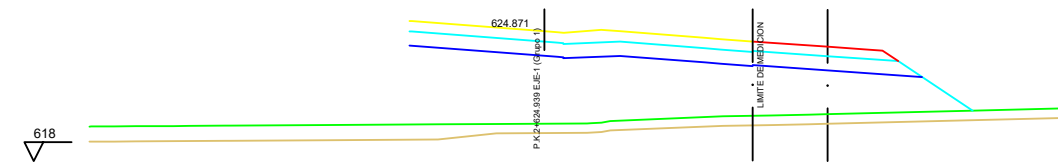
PK=0+020

S. FIRME = 3.61 m2.  
S. SUELO SEL 1 = 6.20 m2.  
S. TERRAPLEN = 24.47 m2.  
S. VEGETAL = 5.52 m2.



PK=0+040

S. FIRME = 3.51 m2.  
S. SUELO SEL 1 = 6.05 m2.  
S. TERRAPLEN = 26.74 m2.  
S. VEGETAL = 5.59 m2.



PK=0+060

S. FIRME = 3.64 m2.  
S. SUELO SEL 1 = 6.25 m2.  
S. TERRAPLEN = 28.62 m2.  
S. VEGETAL = 5.82 m2.

ORGANISMO



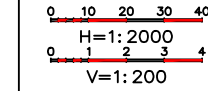
CONSULTOR



AUTOR DEL ESTUDIO



ESCALAS



TITULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

12-07.dwg

DESIGNACIÓN

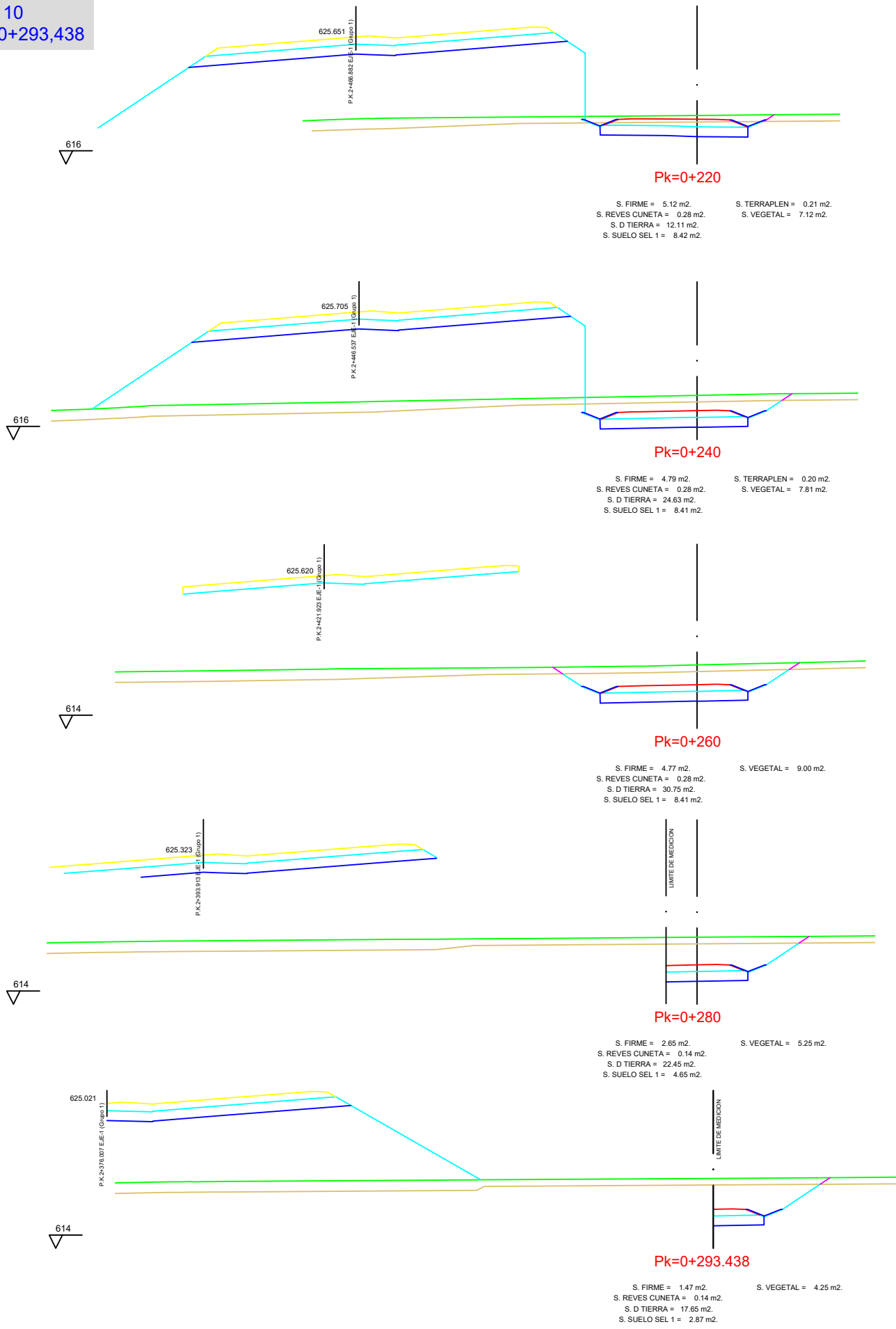
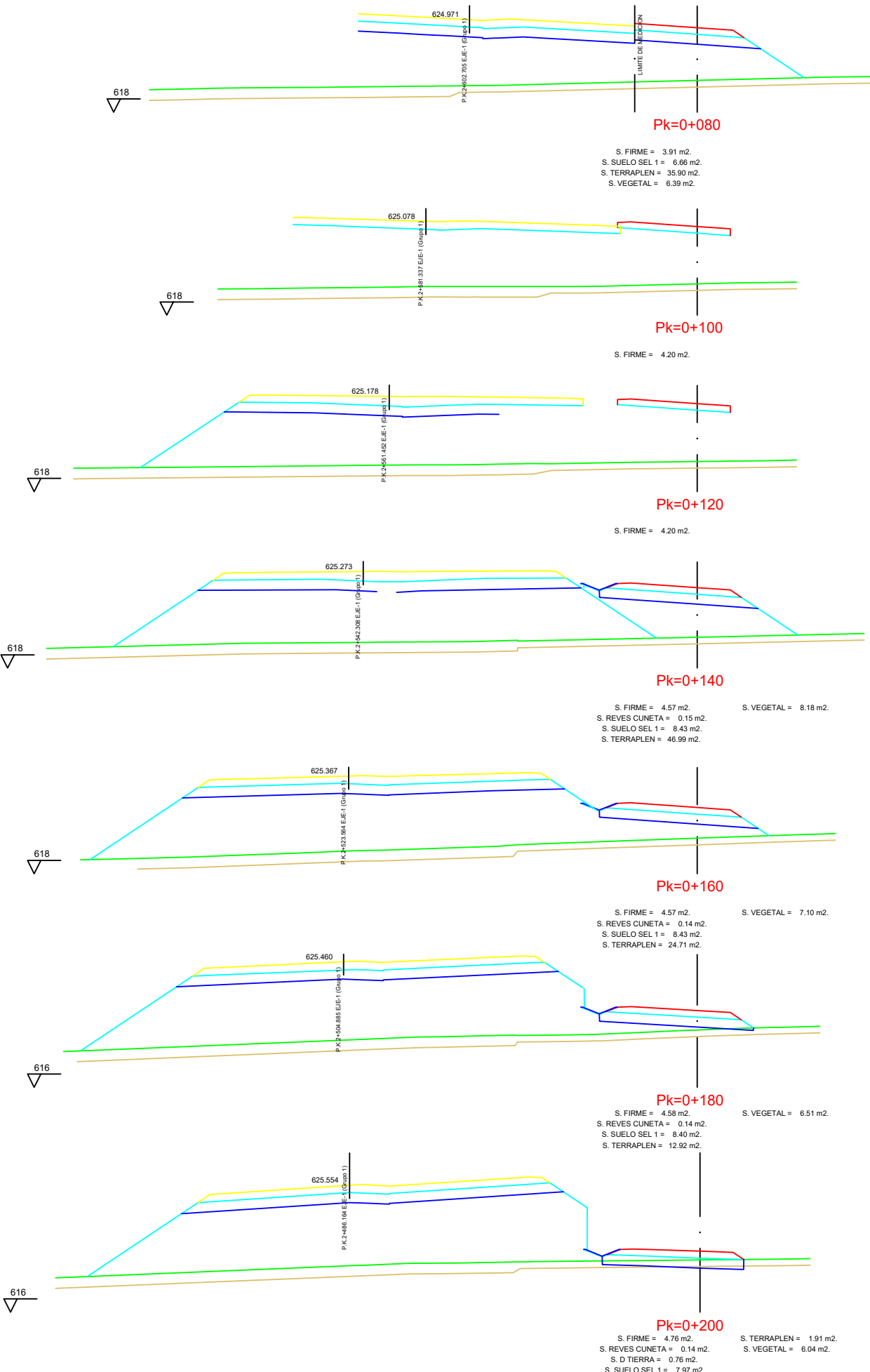
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

12-07

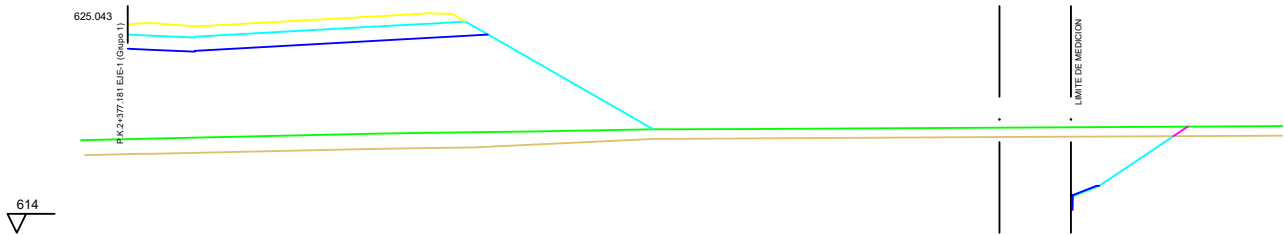
HOJA 34 DE 50

EJE 10  
PK 0+080 - 0+293,438



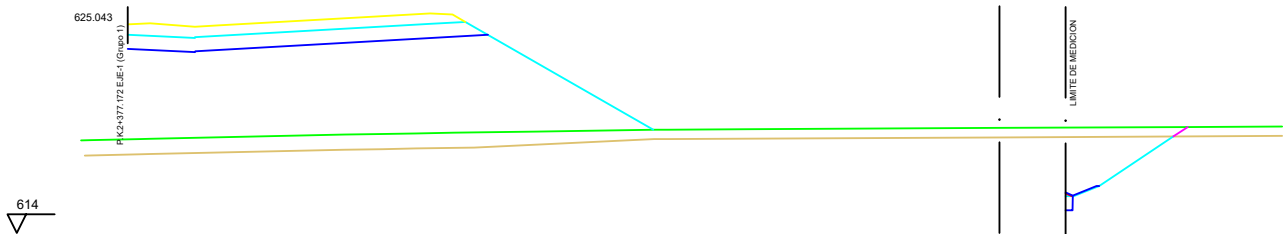


EJE 11  
PK 0+000 - 0+120



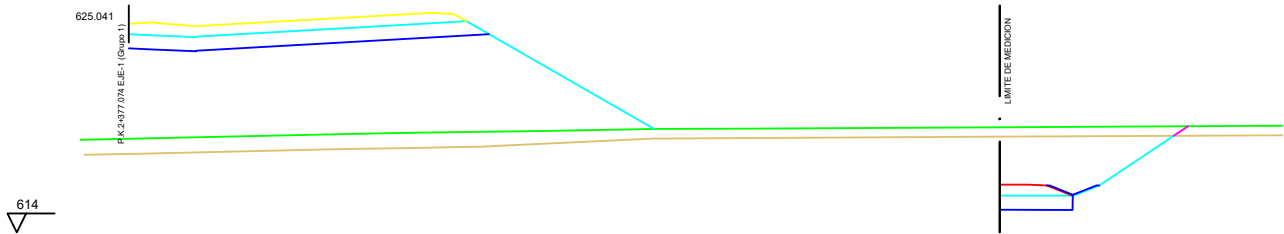
Pk=0+000

S. REVES CUNETAS = 0.08 m2.  
S. D TIERRA = 9.48 m2.  
S. SUELO SEL 1 = 0.06 m2.  
S. VEGETAL = 2.90 m2.



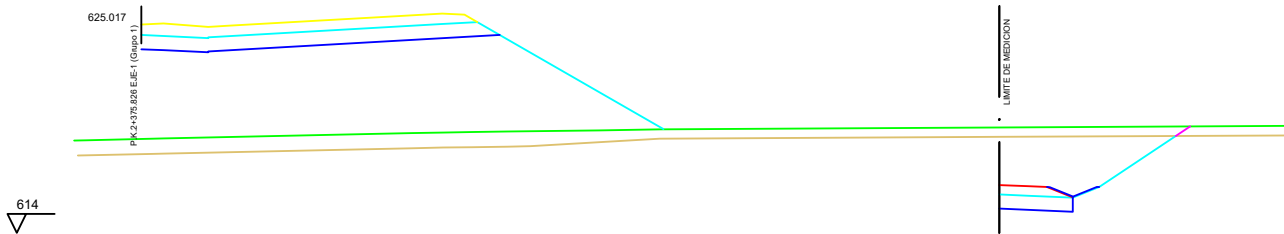
Pk=0+000.005

S. FIRME = 0.02 m2. S. VEGETAL = 3.05 m2.  
S. REVES CUNETAS = 0.09 m2.  
S. D TIERRA = 10.61 m2.  
S. SUELO SEL 1 = 0.28 m2.



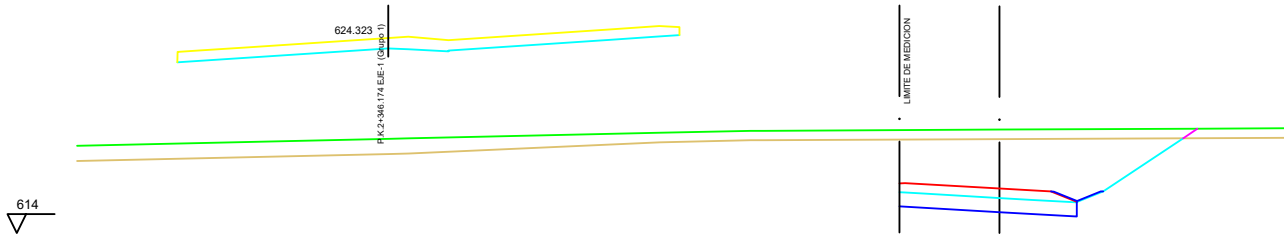
Pk=0+000.062

S. FIRME = 1.76 m2. S. VEGETAL = 4.78 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 24.06 m2.  
S. SUELO SEL 1 = 2.88 m2.



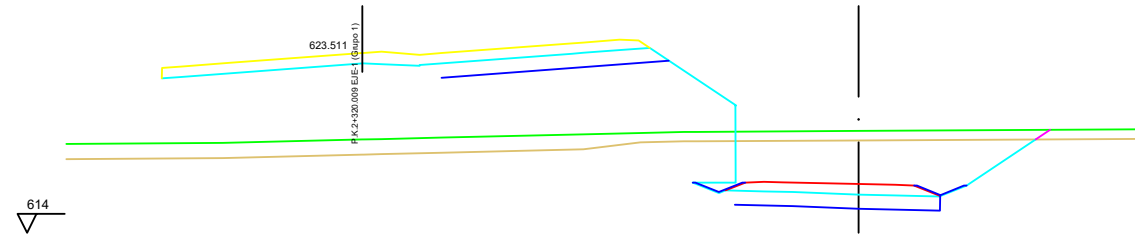
Pk=0+000.786

S. FIRME = 1.61 m2. S. VEGETAL = 4.86 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 24.69 m2.  
S. SUELO SEL 1 = 2.92 m2.



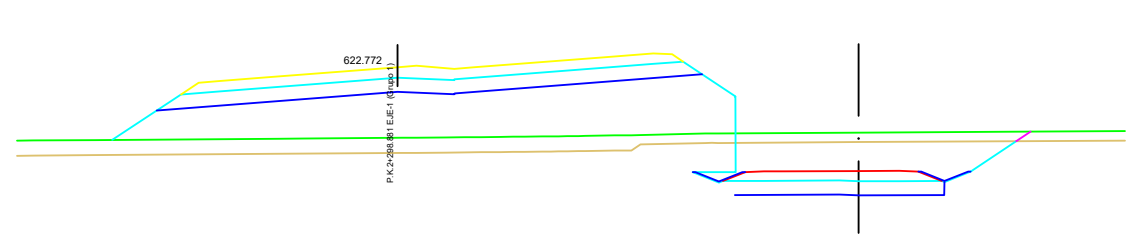
Pk=0+020

S. FIRME = 4.37 m2. S. VEGETAL = 7.69 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. D TIERRA = 46.12 m2.  
S. SUELO SEL 1 = 7.04 m2.



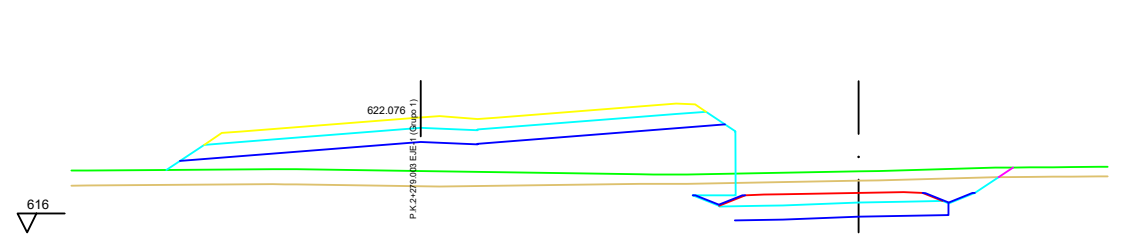
Pk=0+040

S. FIRME = 5.33 m2. S. VEGETAL = 8.39 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 46.81 m2.  
S. SUELO SEL 1 = 8.28 m2.



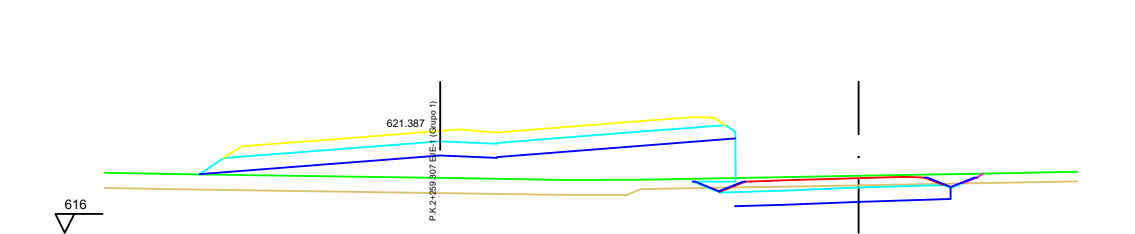
Pk=0+060

S. FIRME = 5.29 m2. S. VEGETAL = 7.95 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 35.48 m2.  
S. SUELO SEL 1 = 8.44 m2.



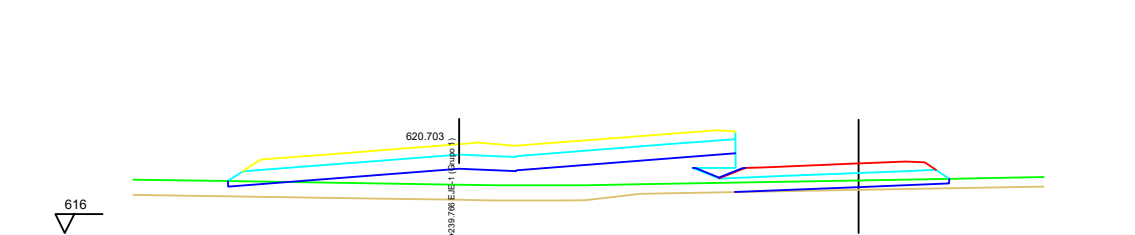
Pk=0+080

S. FIRME = 5.67 m2. S. VEGETAL = 7.58 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 23.88 m2.  
S. SUELO SEL 1 = 8.57 m2.



Pk=0+100

S. FIRME = 5.47 m2. S. VEGETAL = 6.73 m2.  
S. REVES CUNETAS = 0.28 m2.  
S. D TIERRA = 10.36 m2.  
S. SUELO SEL 1 = 8.62 m2.



Pk=0+120

S. FIRME = 5.18 m2. S. VEGETAL = 6.08 m2.  
S. REVES CUNETAS = 0.14 m2.  
S. SUELO SEL 1 = 8.39 m2.  
S. TERRAPLEN = 1.40 m2.

ORGANISMO



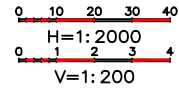
CONSULTOR



AUTOR DEL ESTUDIO

JAIME ALONSO HERAS  
INGENIERO DE CAMINOS, CANALES Y PUERTOS

ESCALAS



TITULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

12-07.dwg

DESIGNACIÓN

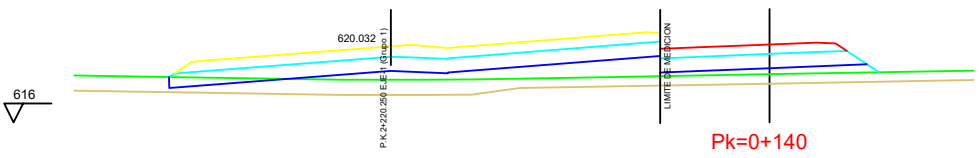
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

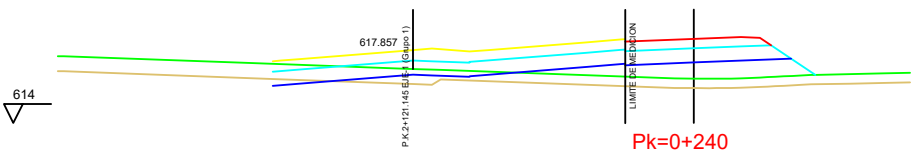
12-07

HOJA 36 DE 50

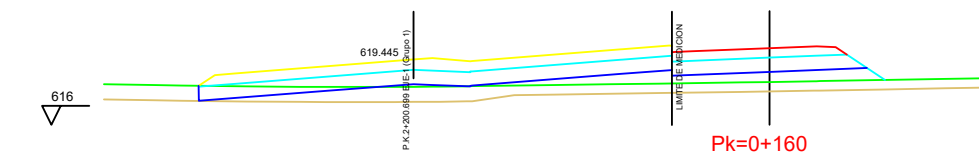
EJE 11  
PK 0+140 - 0+309,978



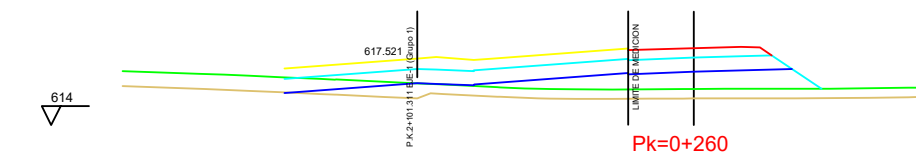
S. FIRME = 4.73 m2.  
S. SUELO SEL 1 = 7.81 m2.  
S. TERRAPLEN = 9.36 m2.  
S. VEGETAL = 5.79 m2.



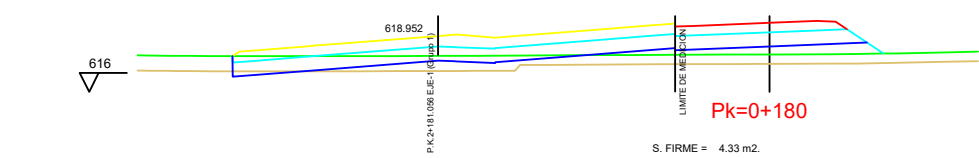
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S. SUELO SEL 1 = 6.18 m2.  
S. TERRAPLEN = 13.02 m2.  
S. VEGETAL = 5.03 m2.



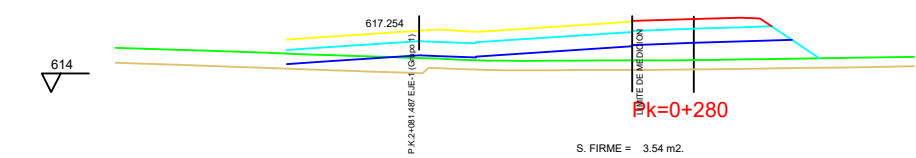
S. FIRME = 4.42 m2.  
S. SUELO SEL 1 = 7.34 m2.  
S. TERRAPLEN = 11.47 m2.  
S. VEGETAL = 5.64 m2.



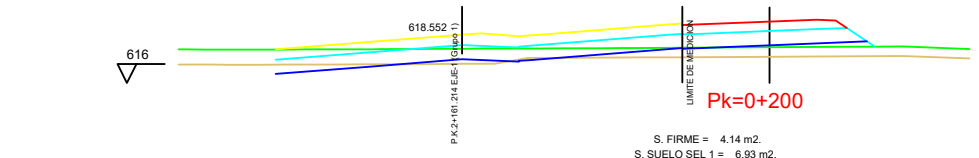
S. FIRME = 3.65 m2.  
S. SUELO SEL 1 = 6.10 m2.  
S. TERRAPLEN = 14.01 m2.  
S. VEGETAL = 5.12 m2.



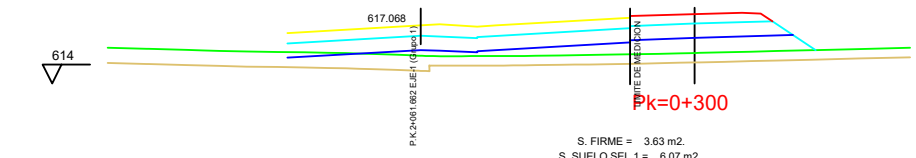
S. FIRME = 4.33 m2.  
S. SUELO SEL 1 = 7.21 m2.  
S. TERRAPLEN = 10.05 m2.  
S. VEGETAL = 5.51 m2.



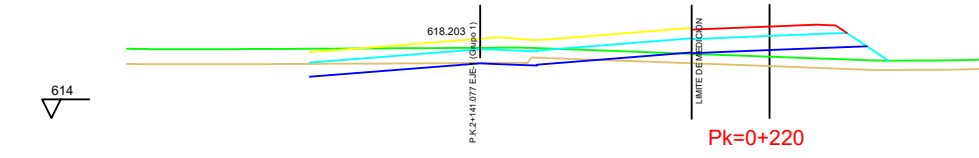
S. FIRME = 3.54 m2.  
S. SUELO SEL 1 = 5.93 m2.  
S. TERRAPLEN = 13.45 m2.  
S. VEGETAL = 4.95 m2.



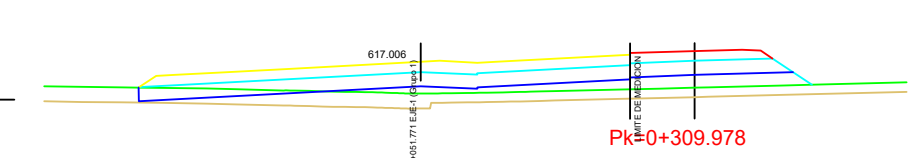
S. FIRME = 4.14 m2.  
S. SUELO SEL 1 = 6.93 m2.  
S. TERRAPLEN = 6.29 m2.  
S. VEGETAL = 5.10 m2.



S. FIRME = 3.63 m2.  
S. SUELO SEL 1 = 6.07 m2.  
S. TERRAPLEN = 12.32 m2.  
S. VEGETAL = 4.91 m2.

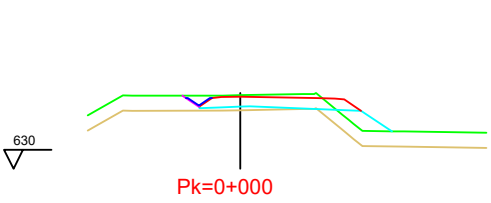


S. FIRME = 3.90 m2.  
S. SUELO SEL 1 = 6.56 m2.  
S. TERRAPLEN = 9.21 m2.  
S. VEGETAL = 5.21 m2.

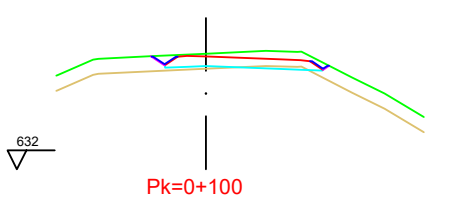


S. FIRME = 3.63 m2.  
S. SUELO SEL 1 = 6.06 m2.  
S. TERRAPLEN = 10.98 m2.  
S. VEGETAL = 4.81 m2.

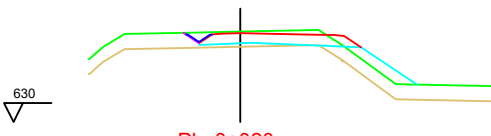
EJE 12  
PK 0+140 - 0+156,578



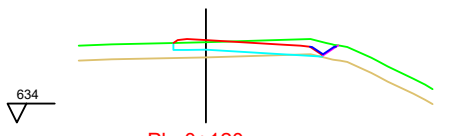
S. FIRME = 4.26 m2.  
S. REYES CUNETAS = 0.08 m2.  
S. D TIERRA = 0.00 m2.  
S. TERRAPLEN = 5.11 m2.



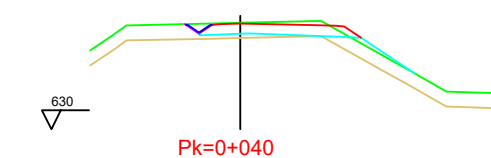
S. FIRME = 3.98 m2.  
S. REYES CUNETAS = 0.13 m2.  
S. D TIERRA = 0.38 m2.  
S. TERRAPLEN = 0.62 m2.



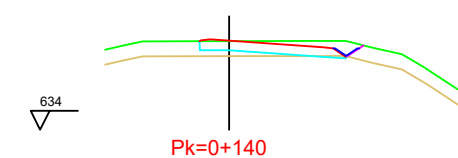
S. FIRME = 4.26 m2.  
S. REYES CUNETAS = 0.08 m2.  
S. D TIERRA = 0.00 m2.  
S. TERRAPLEN = 6.31 m2.



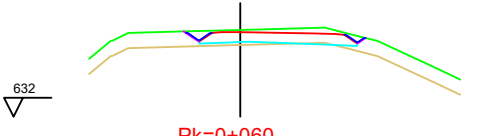
S. FIRME = 3.84 m2.  
S. REYES CUNETAS = 0.08 m2.  
S. D TIERRA = 0.07 m2.  
S. TERRAPLEN = 1.66 m2.



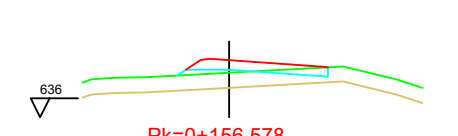
S. FIRME = 4.26 m2.  
S. REYES CUNETAS = 0.08 m2.  
S. D TIERRA = 0.00 m2.  
S. TERRAPLEN = 9.31 m2.



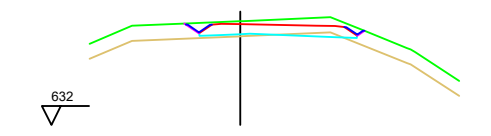
S. FIRME = 3.78 m2.  
S. REYES CUNETAS = 0.08 m2.  
S. D TIERRA = 0.11 m2.  
S. TERRAPLEN = 1.22 m2.



S. FIRME = 4.28 m2.  
S. REYES CUNETAS = 0.14 m2.  
S. D TIERRA = 0.10 m2.  
S. TERRAPLEN = 0.75 m2.

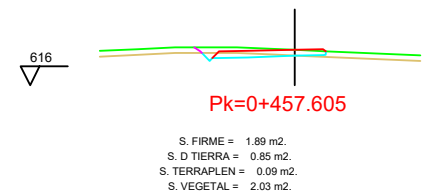
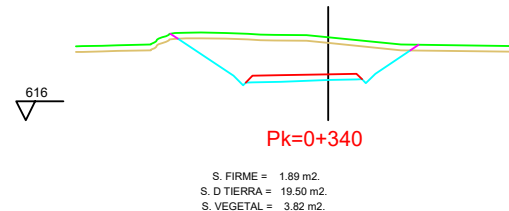
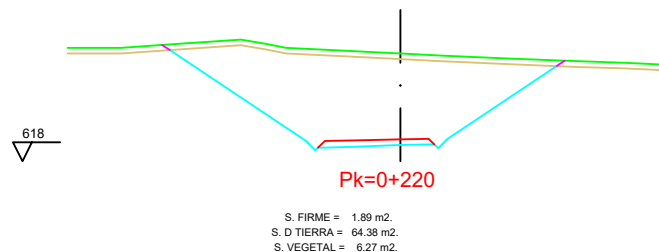
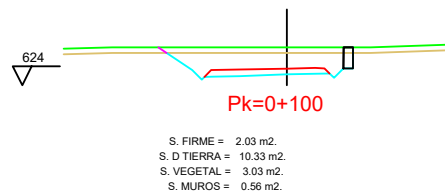
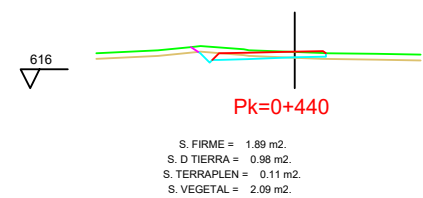
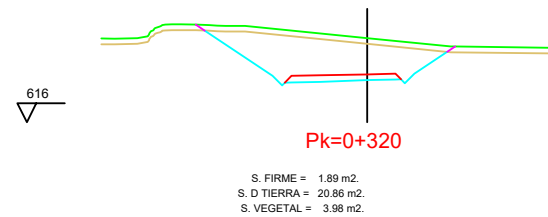
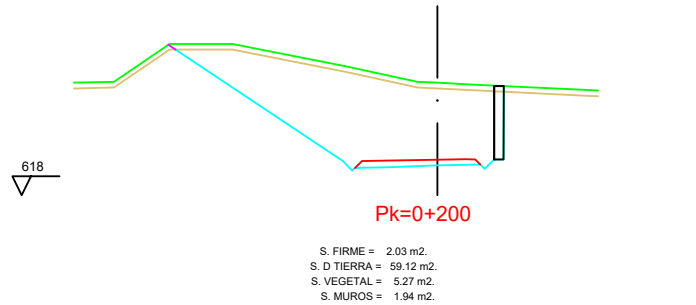
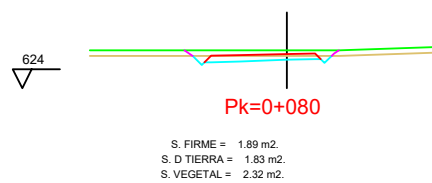
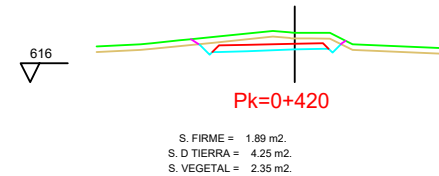
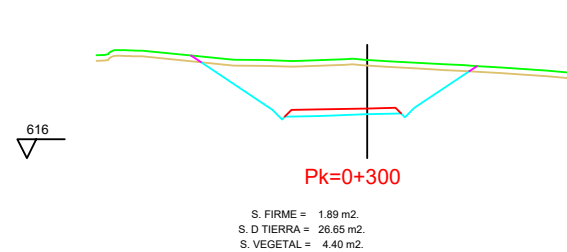
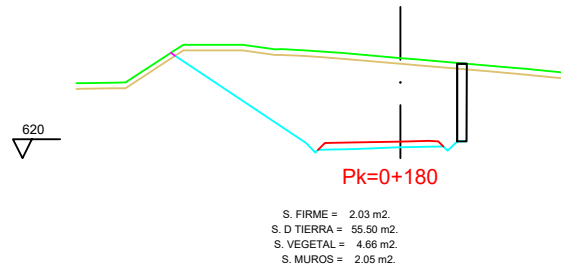
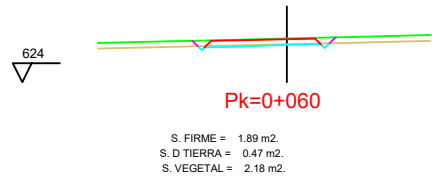
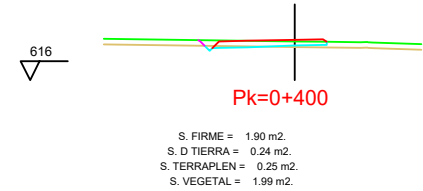
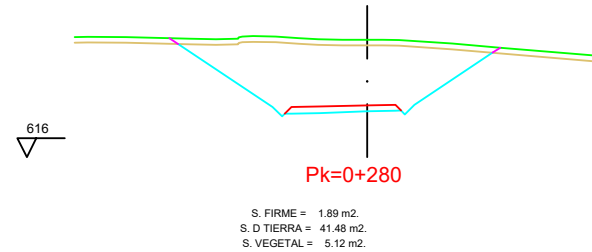
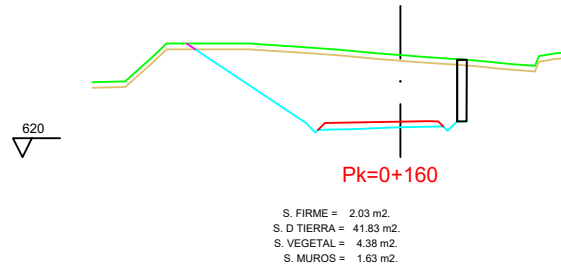
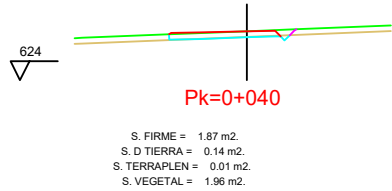
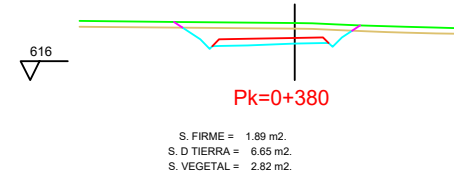
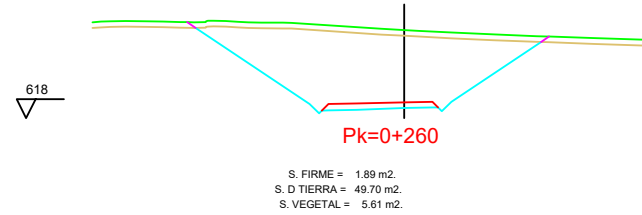
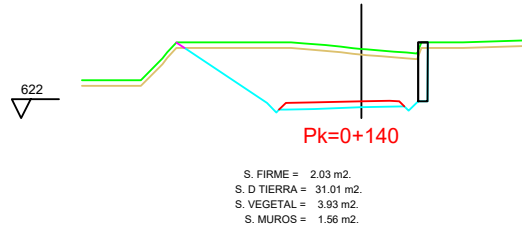
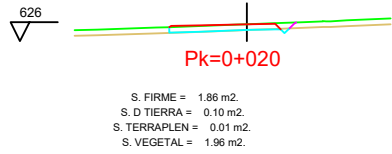
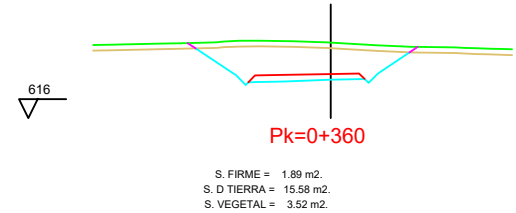
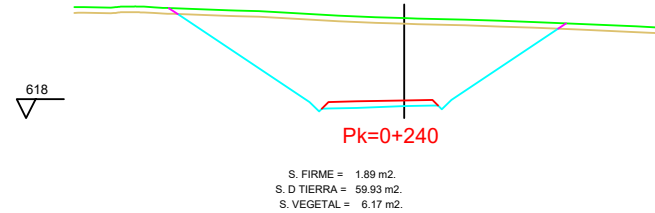
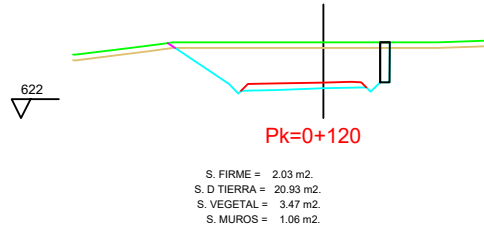
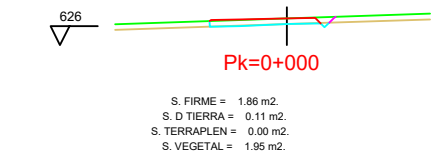


S. FIRME = 3.62 m2.  
S. REYES CUNETAS = 0.09 m2.  
S. D TIERRA = 0.38 m2.  
S. TERRAPLEN = 6.38 m2.



S. FIRME = 4.31 m2.  
S. REYES CUNETAS = 0.14 m2.  
S. D TIERRA = 0.46 m2.  
S. TERRAPLEN = 0.48 m2.

EJE 13  
PK 0+000 - 0+457,605



ORGANISMO



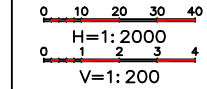
CONSULTOR



AUTOR DEL ESTUDIO

JAIME ALONSO HERAS  
INGENIERO DE CAMINOS, CANALES Y PUERTOS

ESCALAS



TÍTULO DE PROYECTO

NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA  
CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"

FECHA

JUNIO 2023

FICHERO

12-07.dwg

DESIGNACIÓN

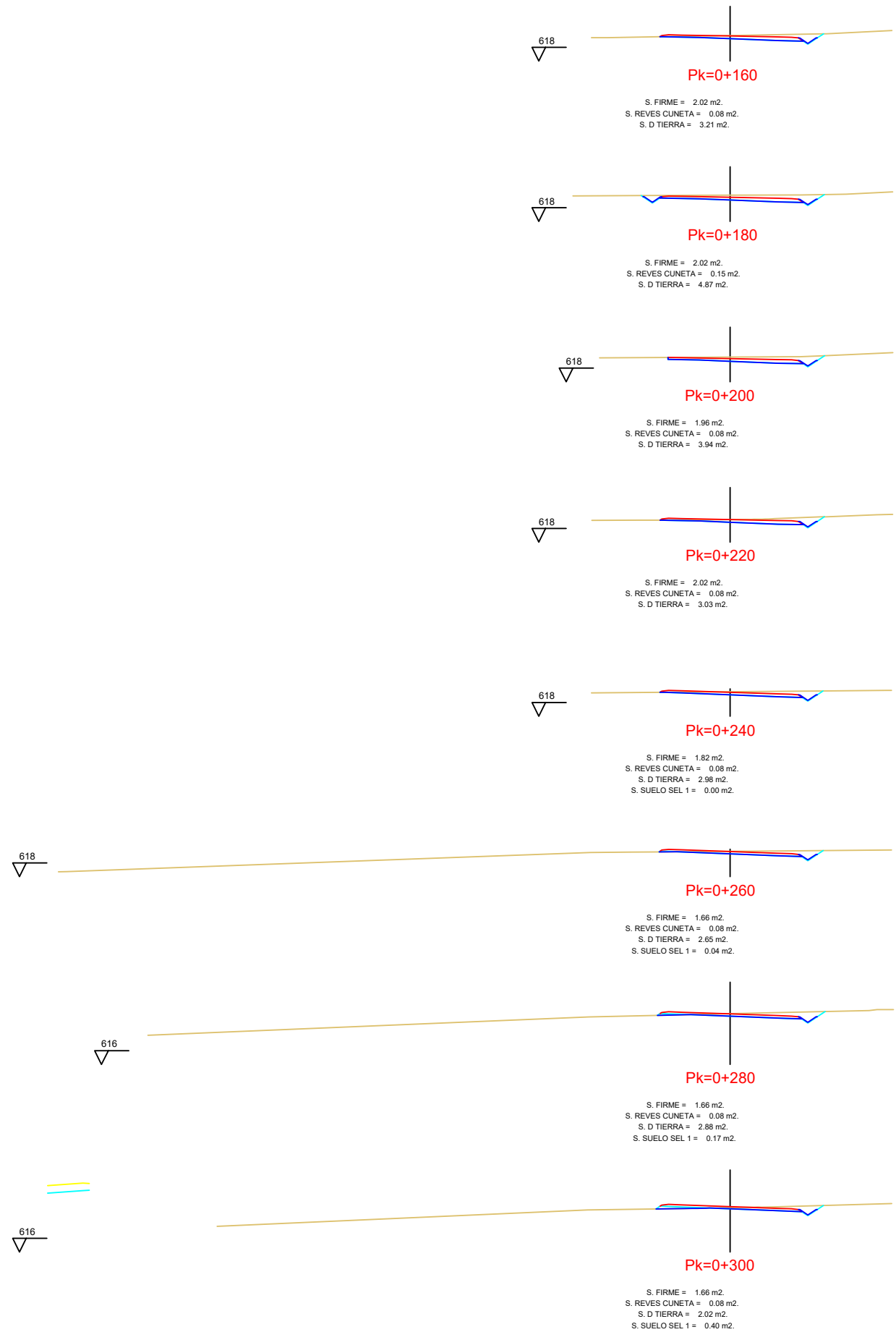
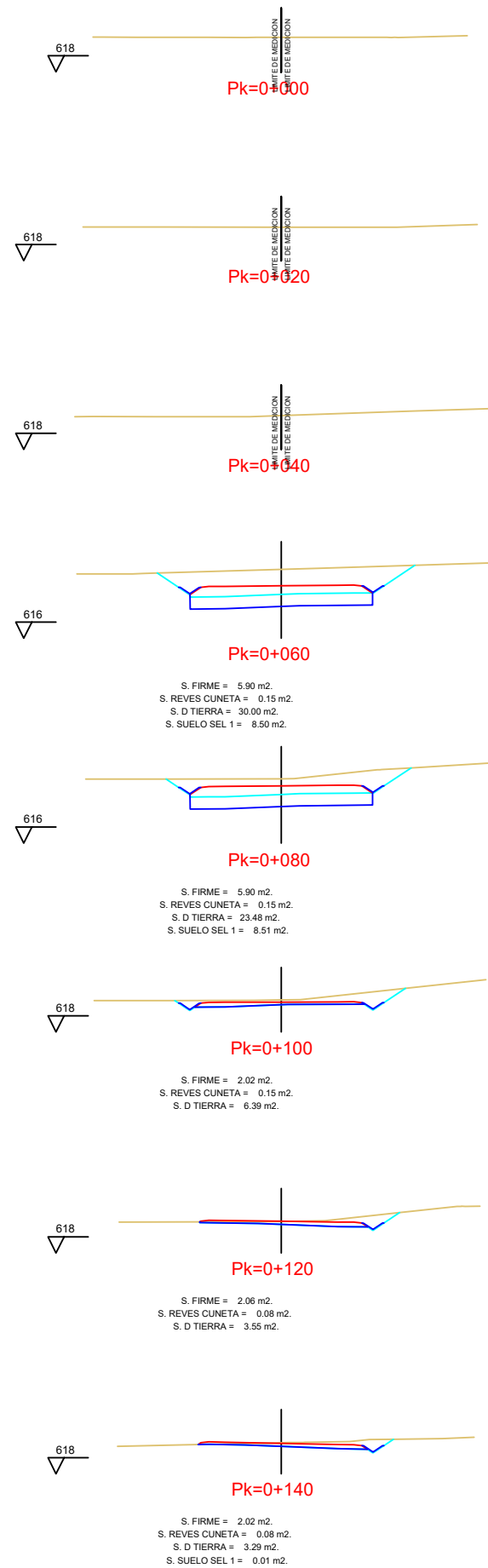
PERFILES TRANSVERSALES  
ALTERNATIVA 4

Nº PLANO

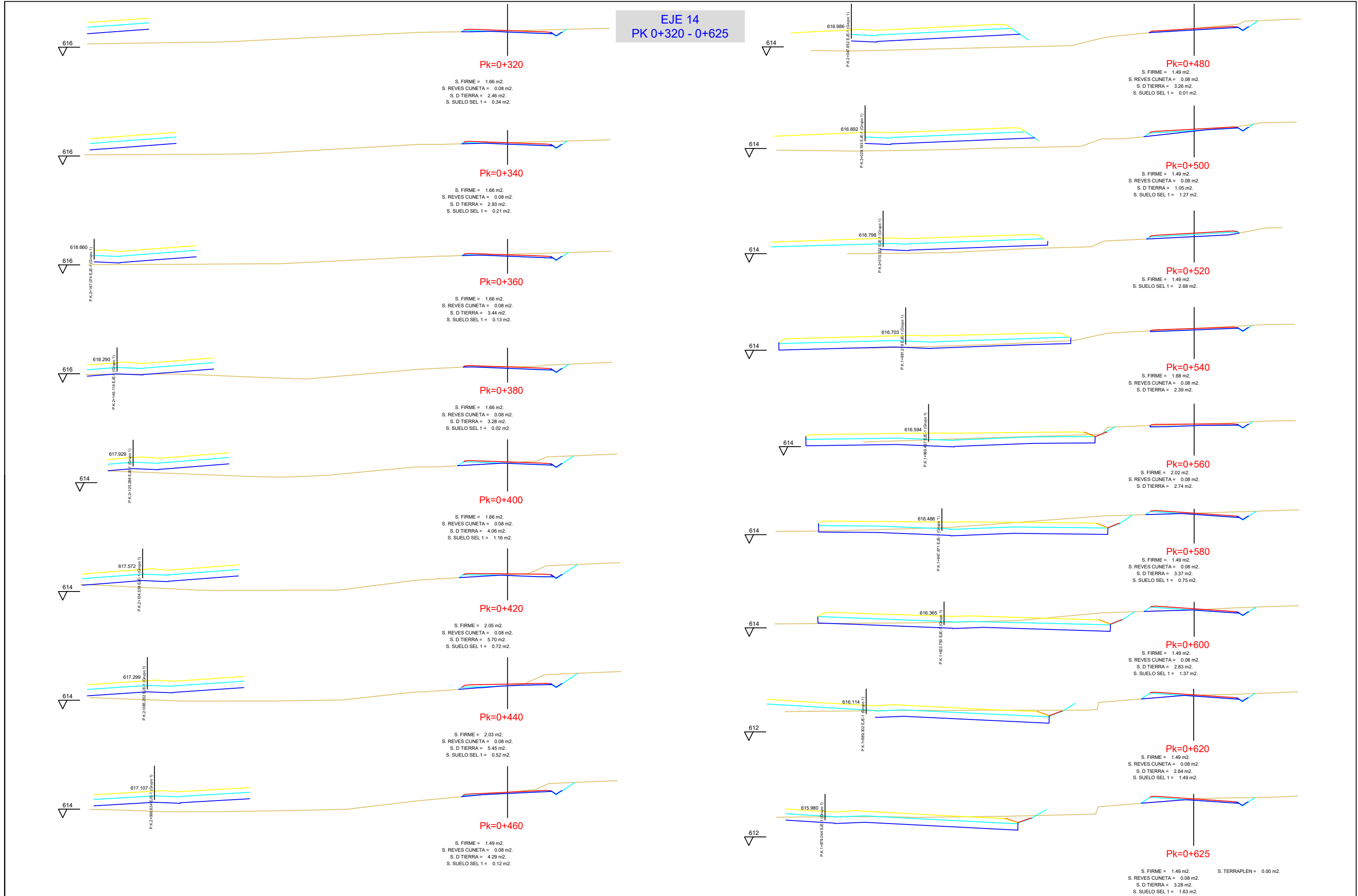
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HOJA 38 DE 50

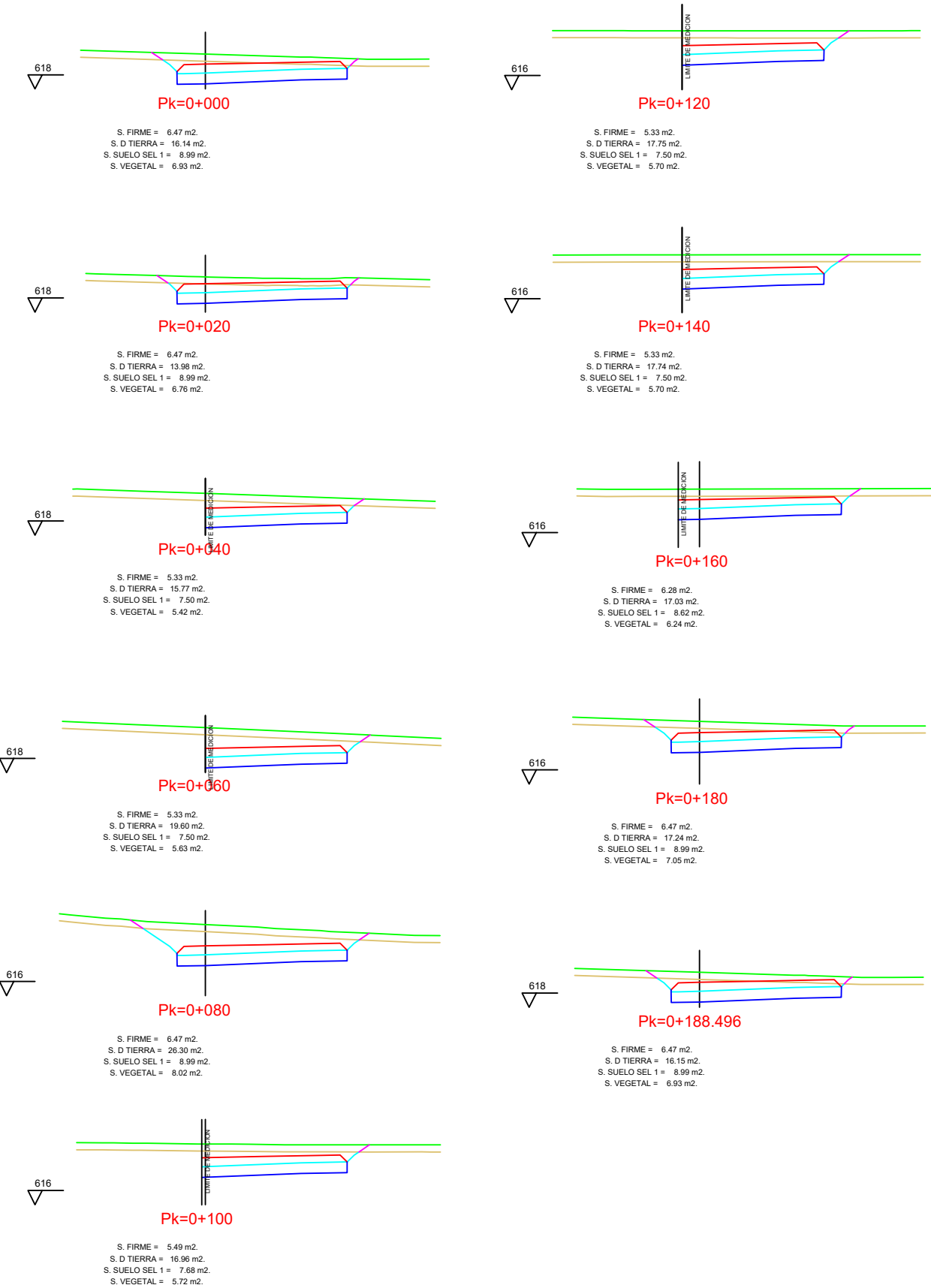
EJE 14  
PK 0+000 - 0+300



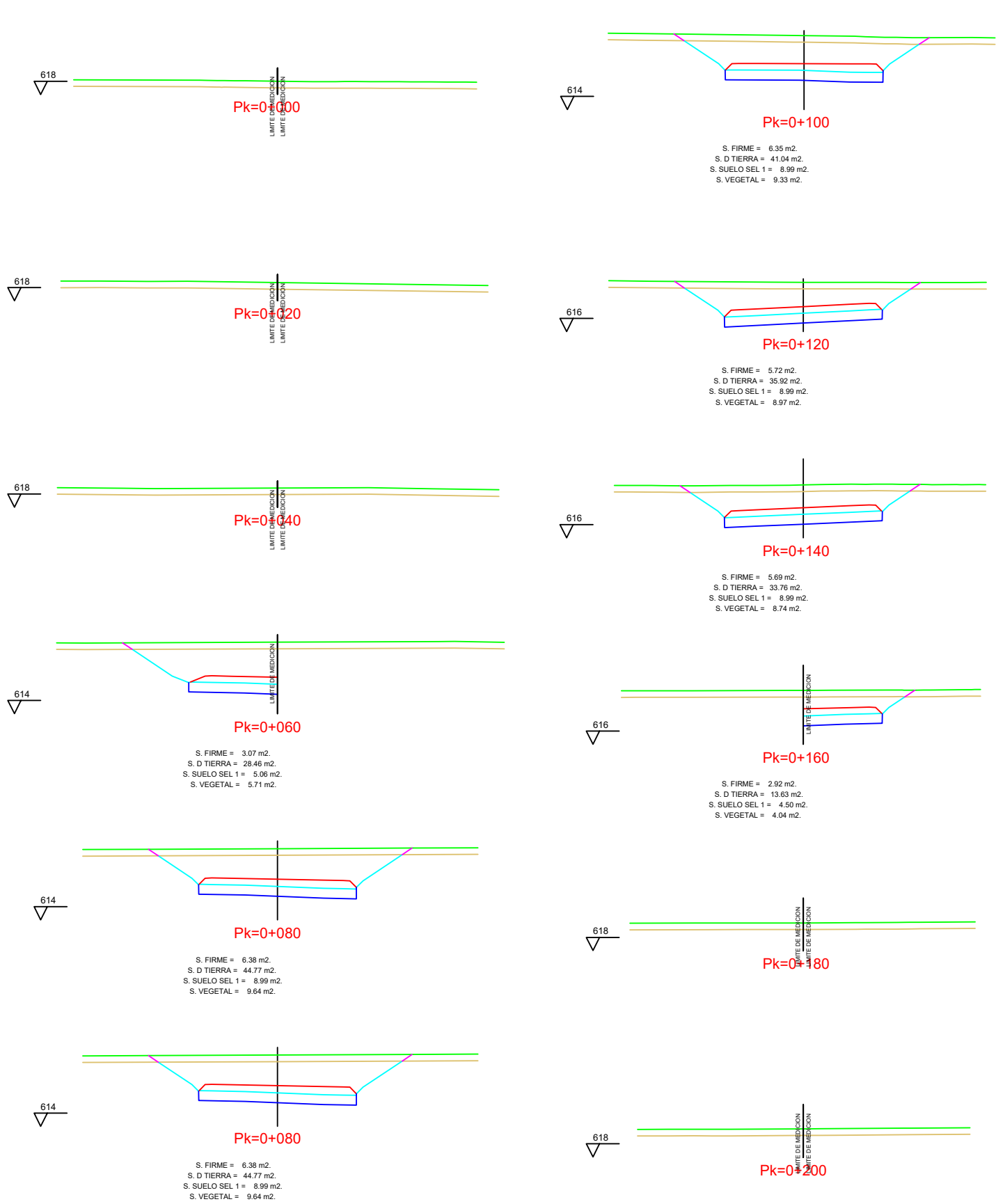




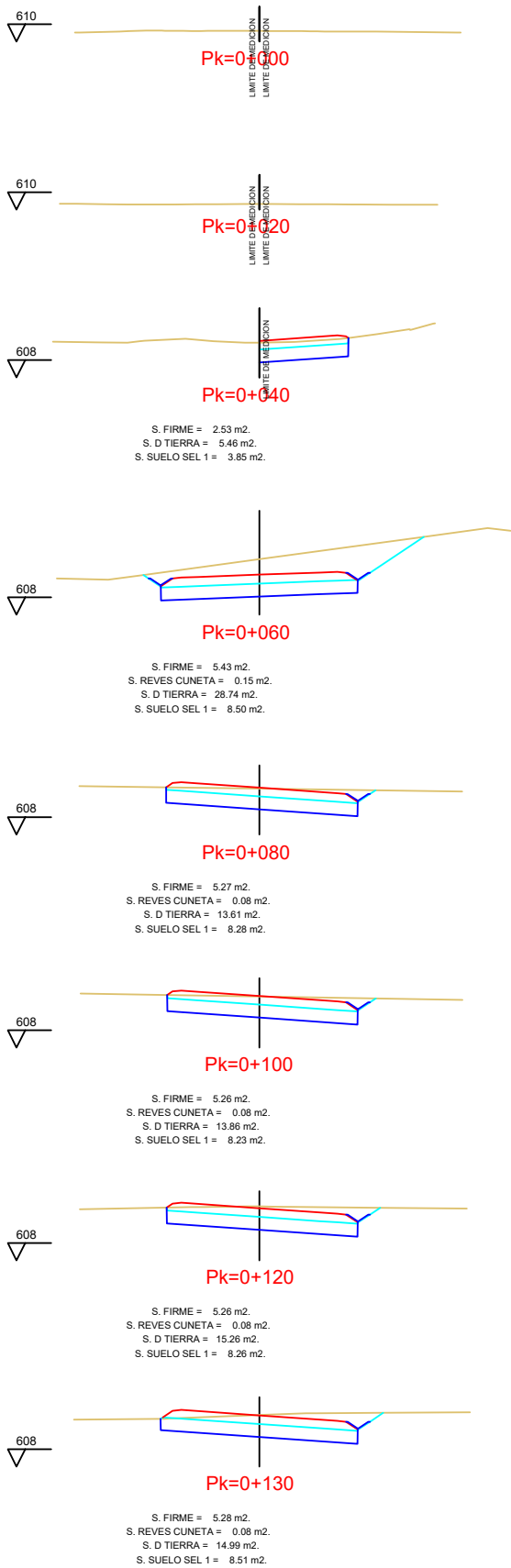
EJE 15  
PK 0+000 - 0+188,496



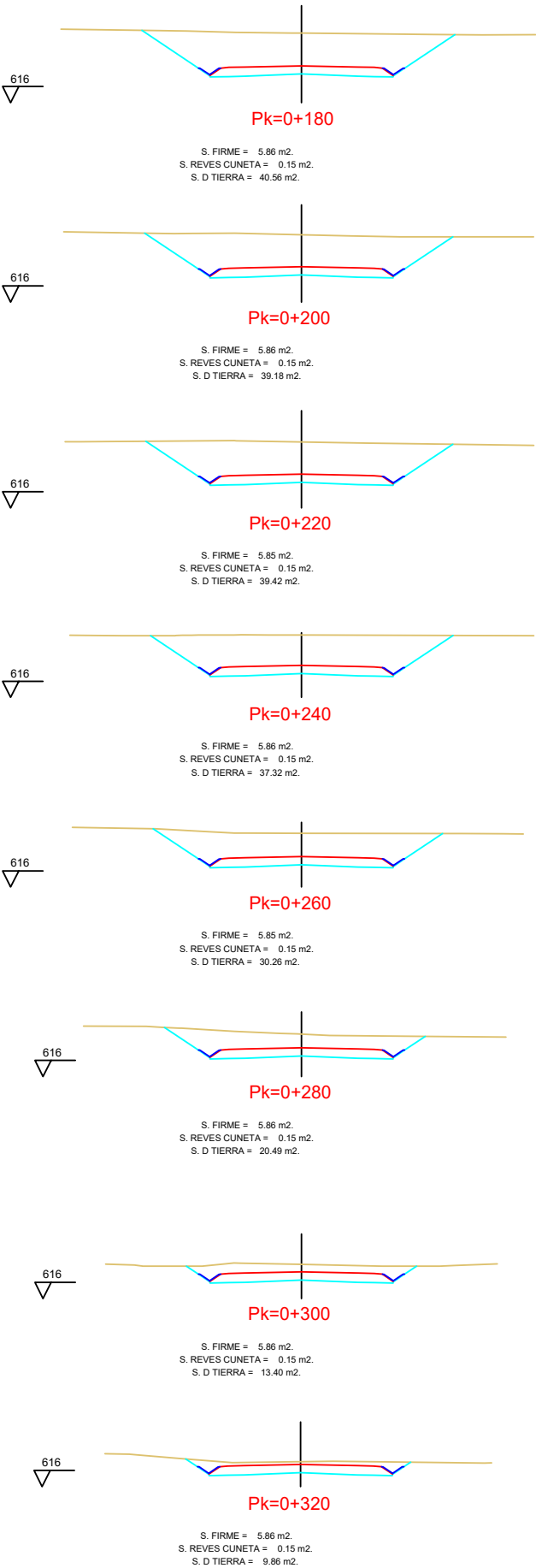
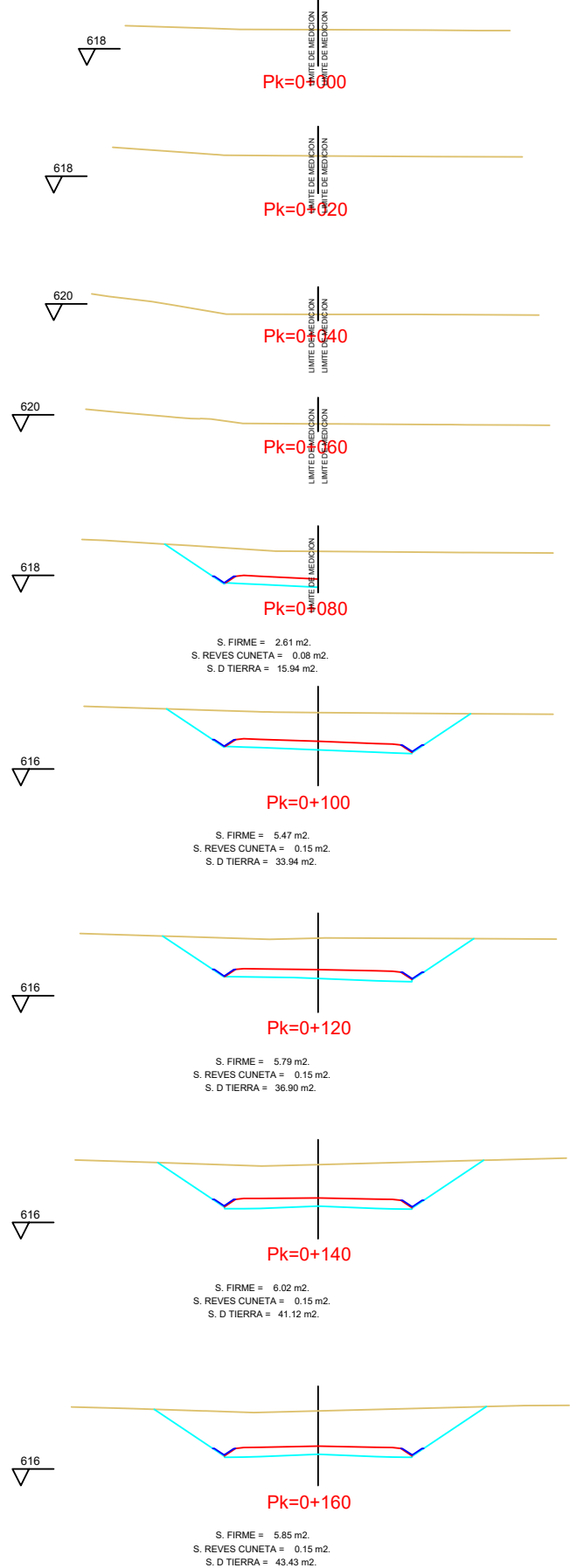
EJE 16  
PK 0+000 - 0+200



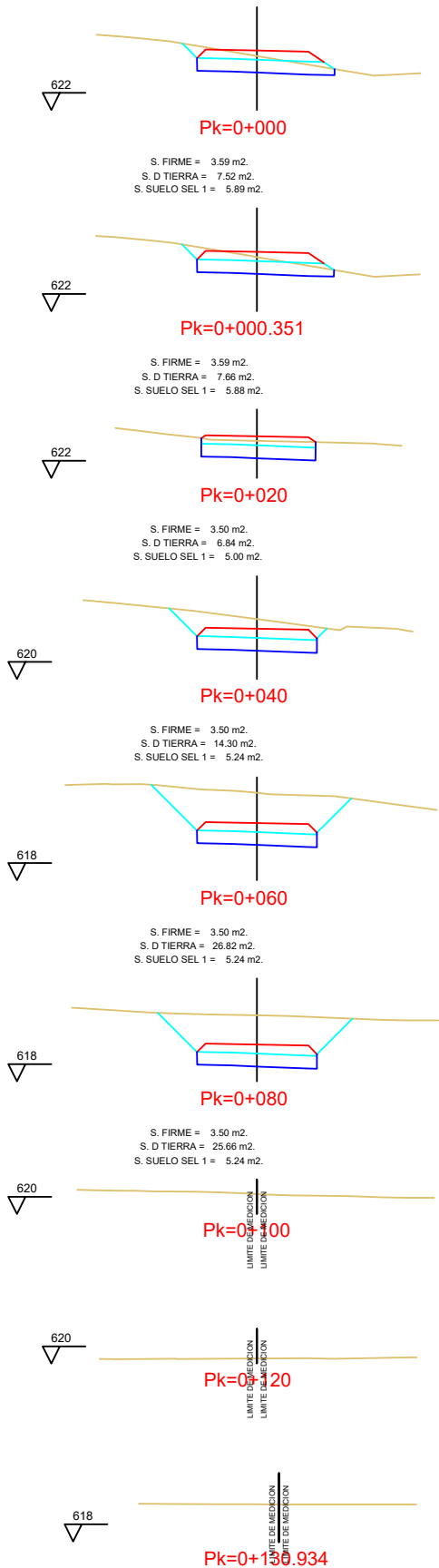
EJE 17  
PK 0+000 - 0+130



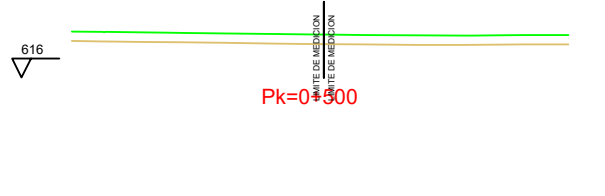
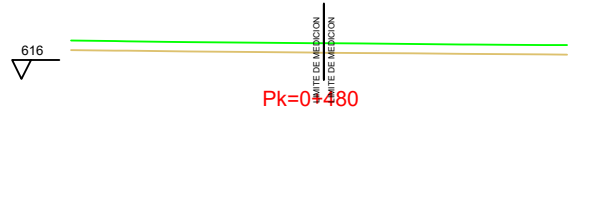
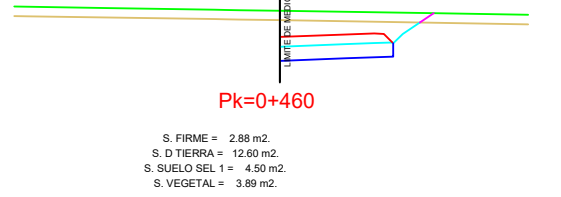
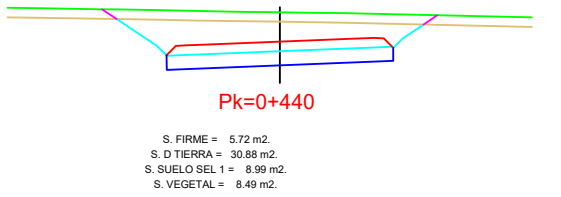
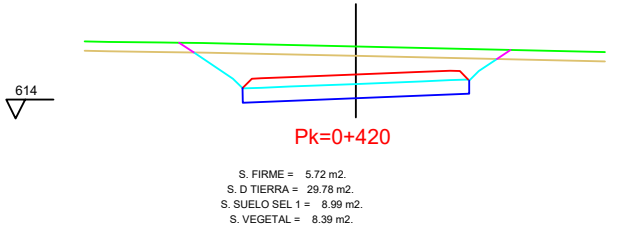
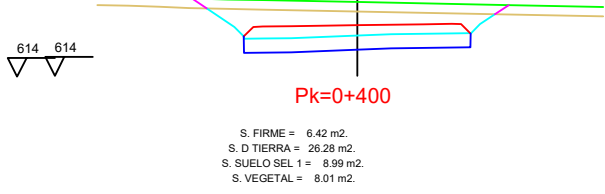
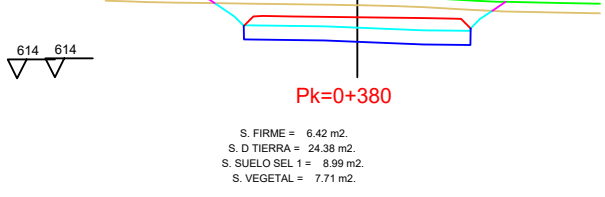
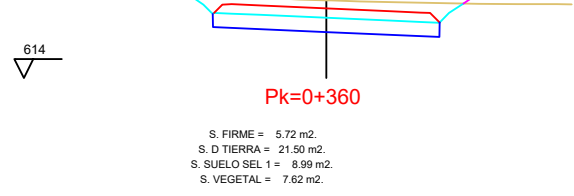
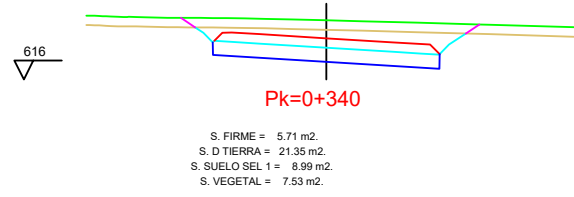
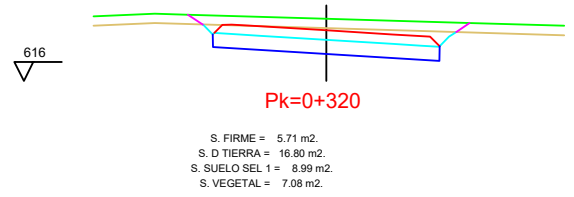
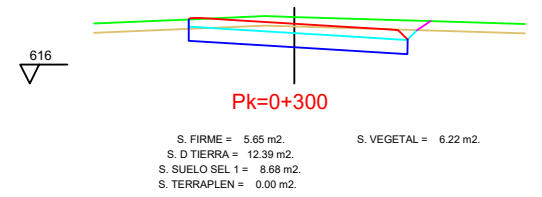
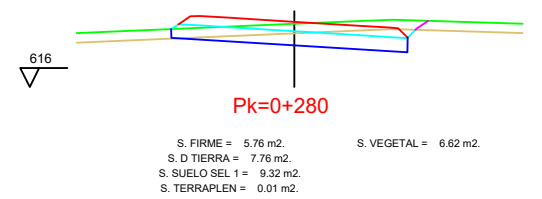
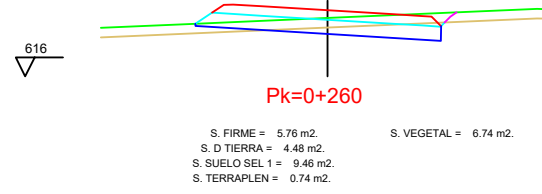
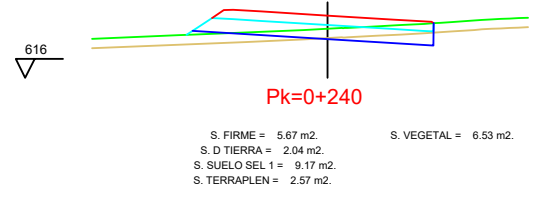
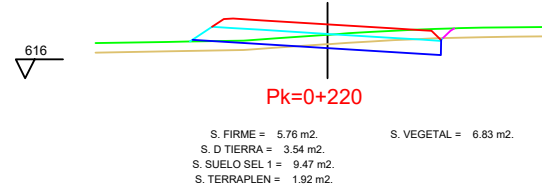
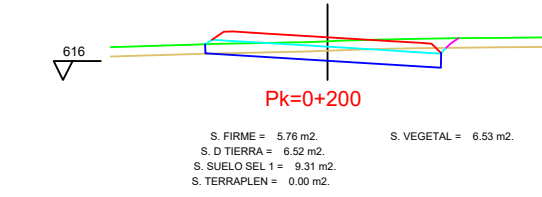
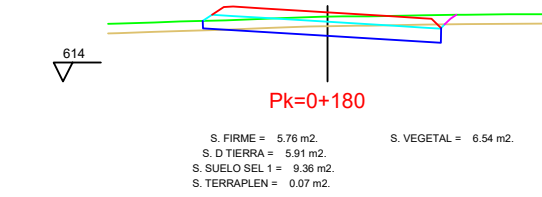
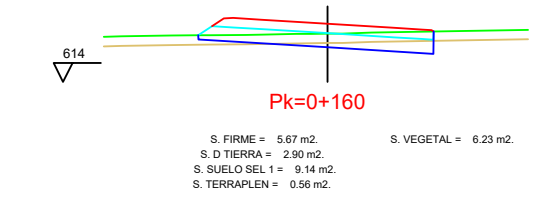
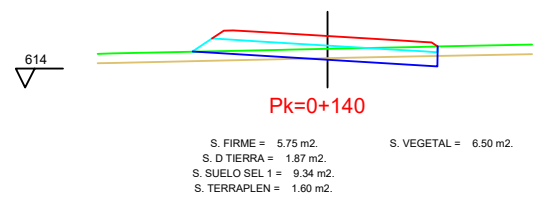
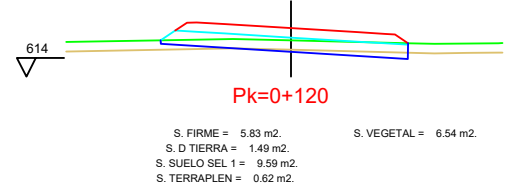
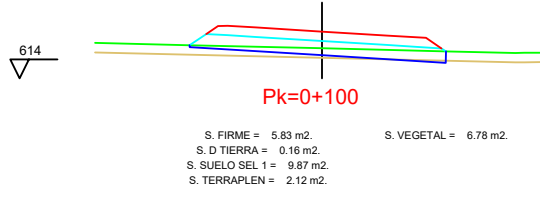
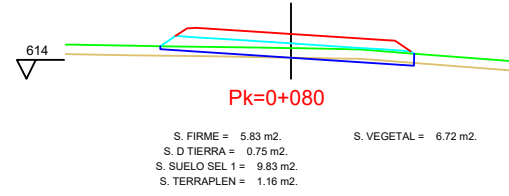
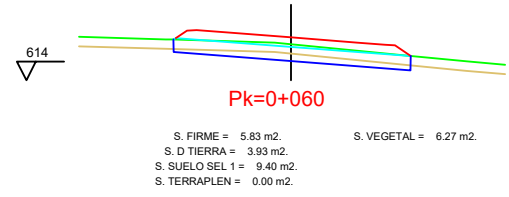
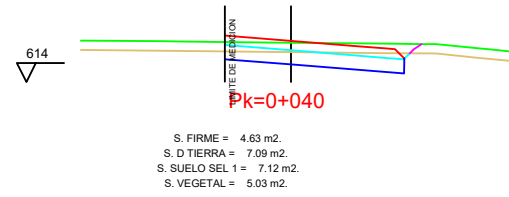
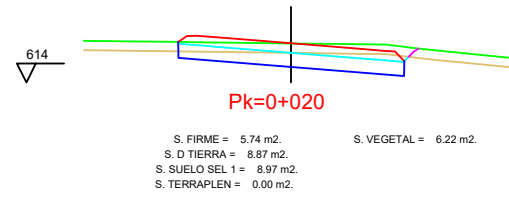
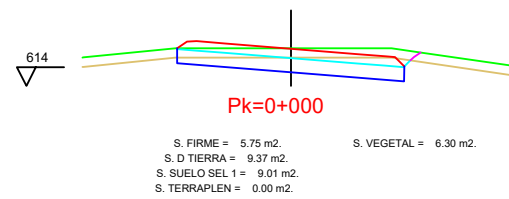
EJE 18  
PK 0+000 - 0+320



EJE 19  
PK 0+000 - 0+130,934

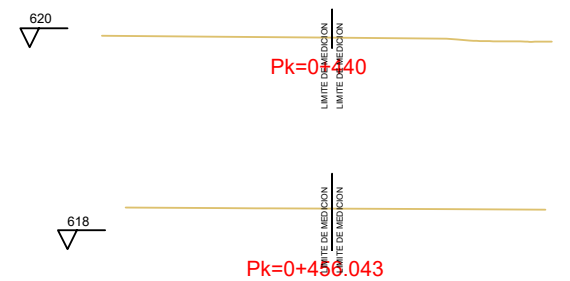
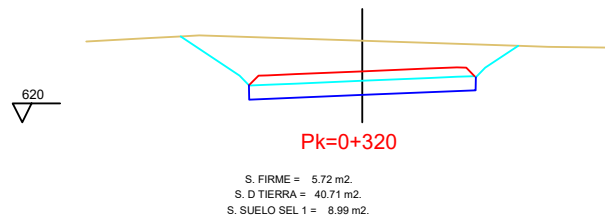
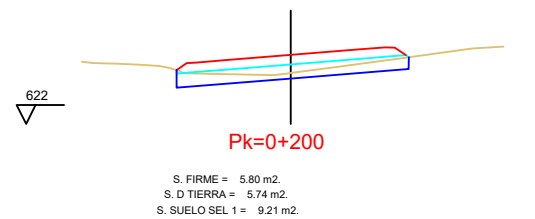
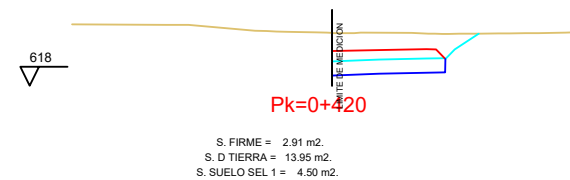
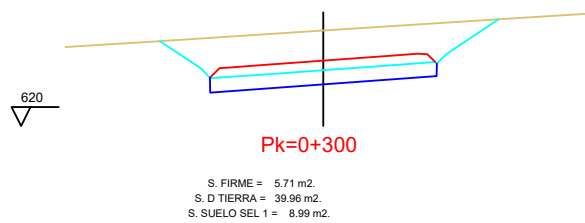
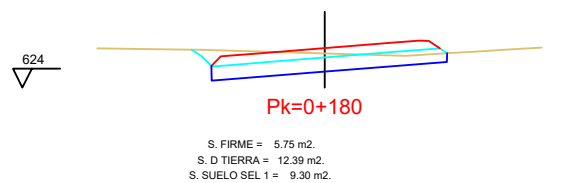
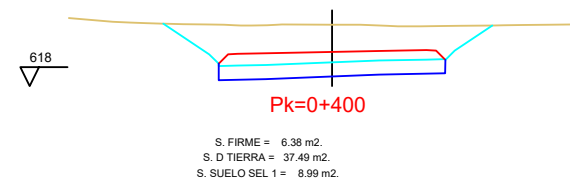
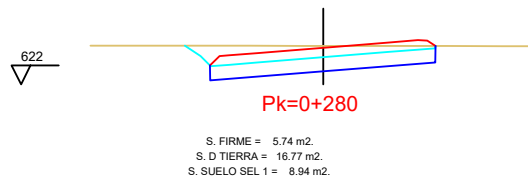
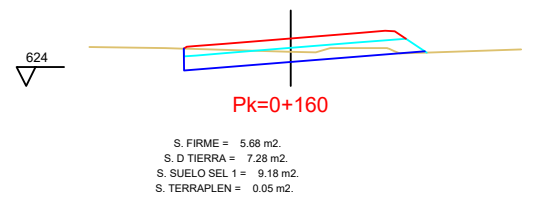
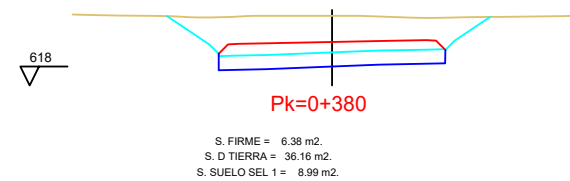
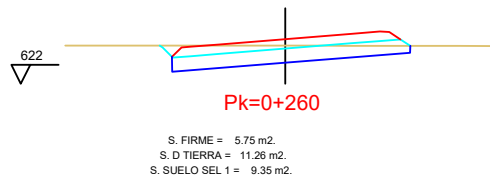
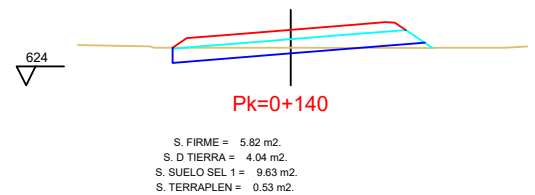
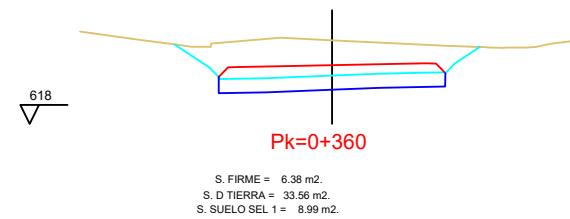
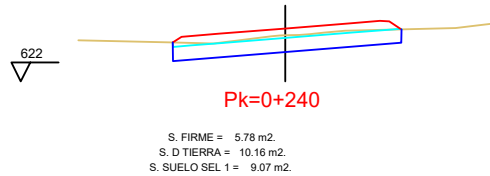
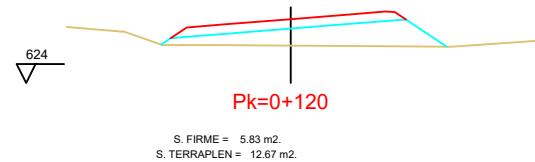
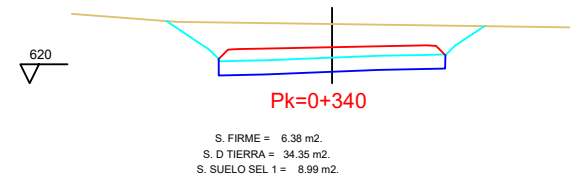
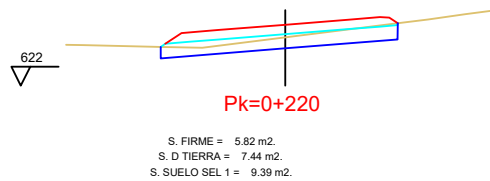
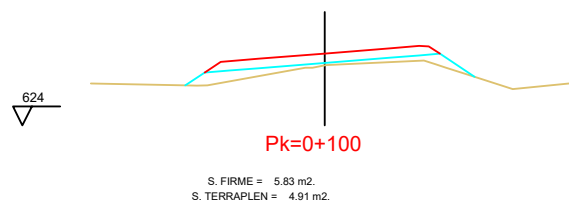


EJE 20  
PK 0+000 - 0+500

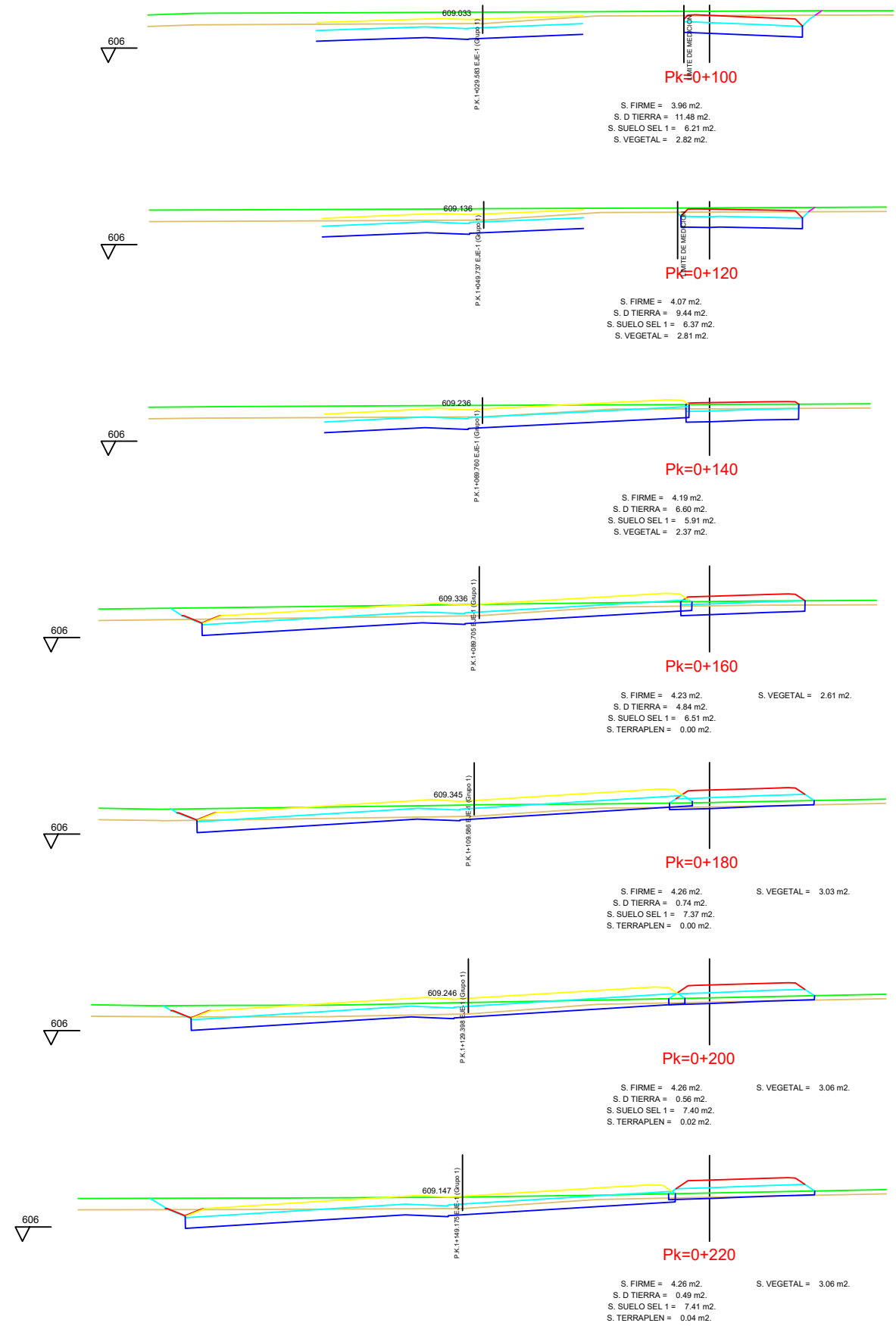
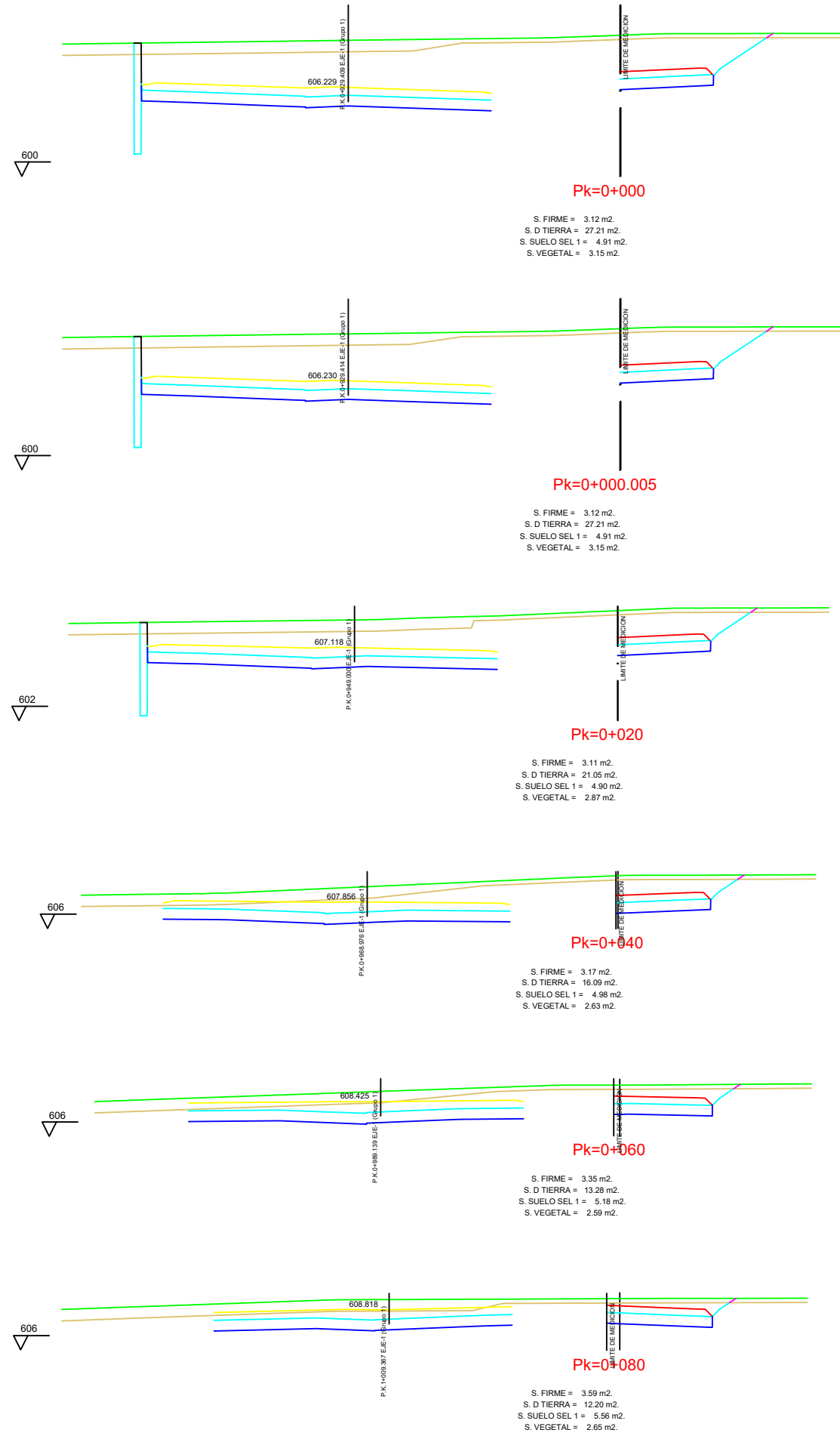




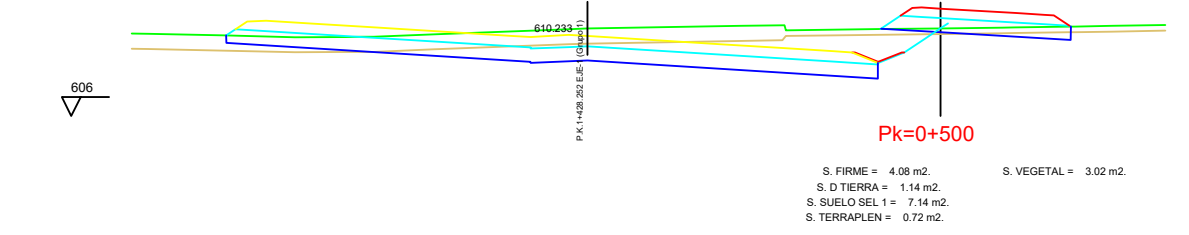
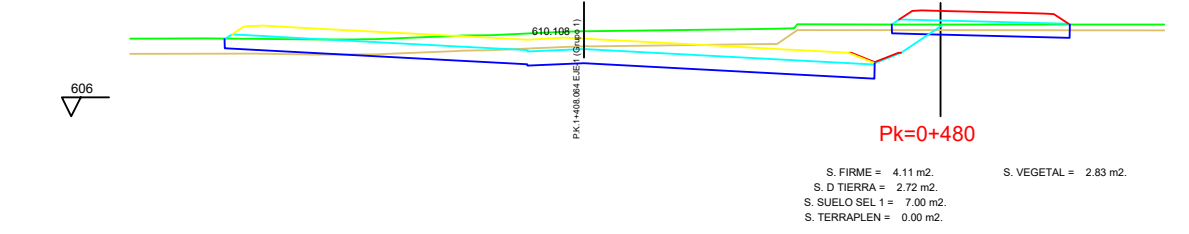
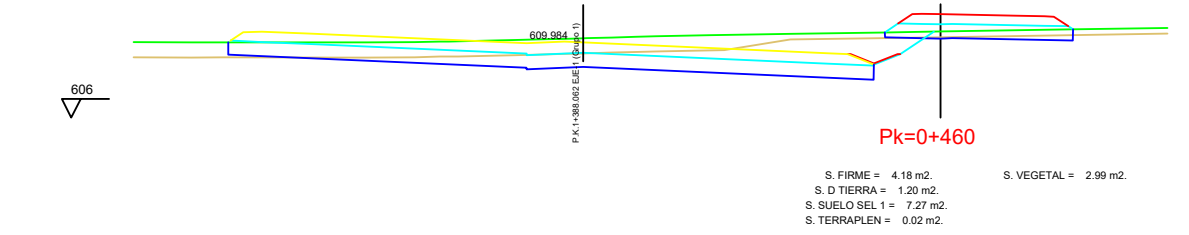
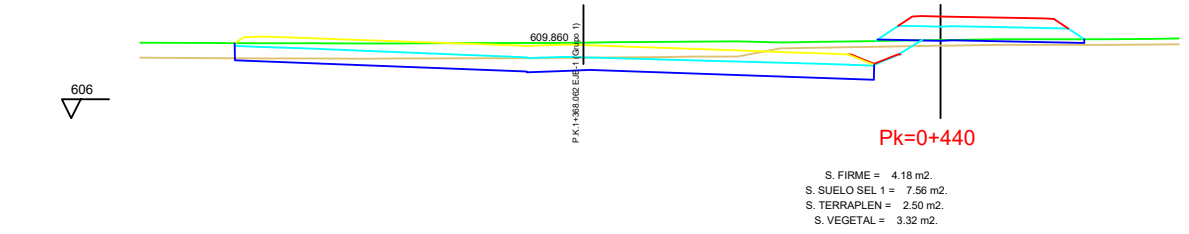
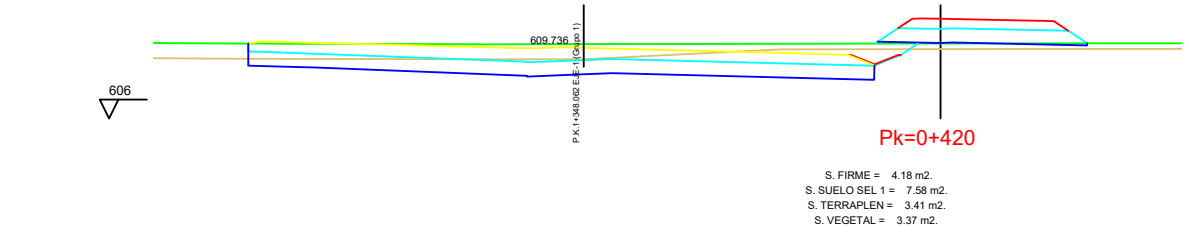
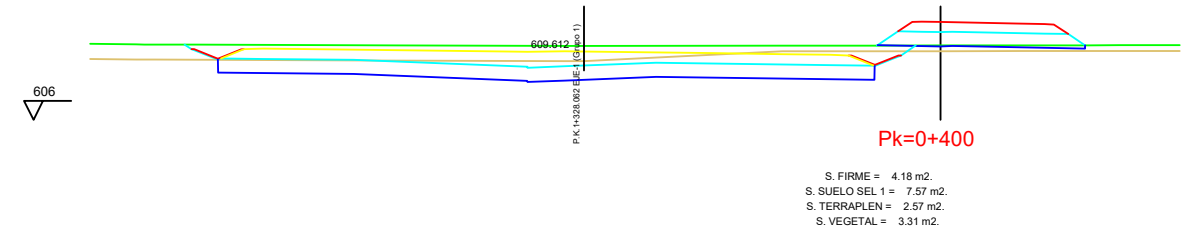
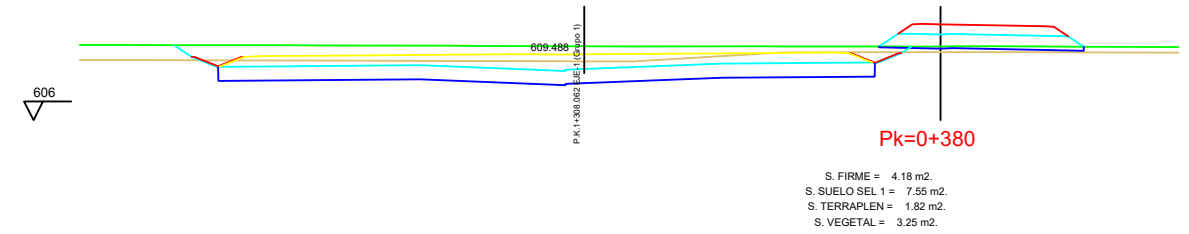
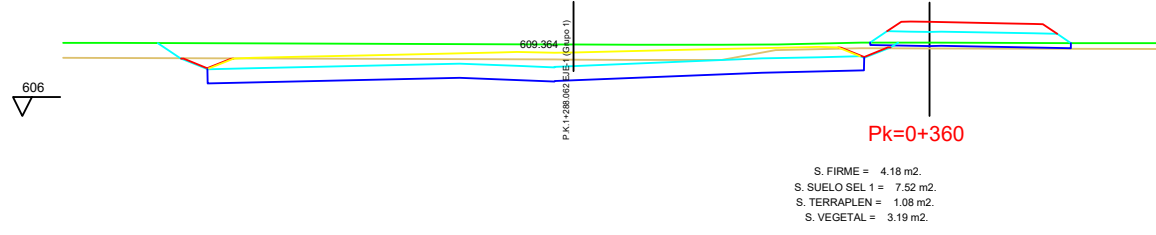
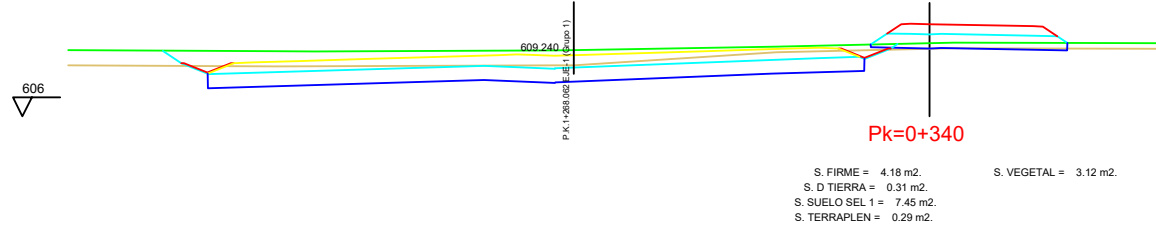
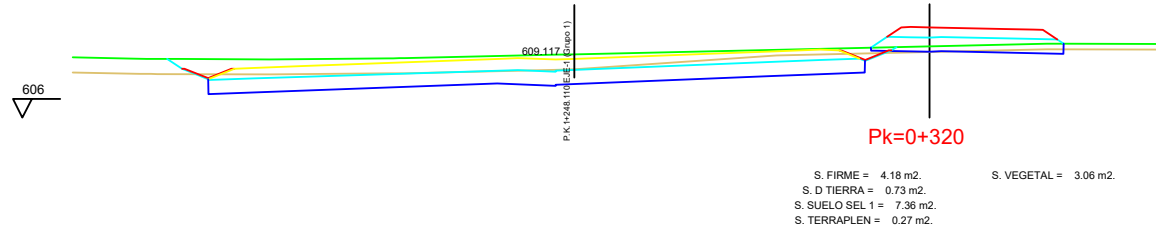
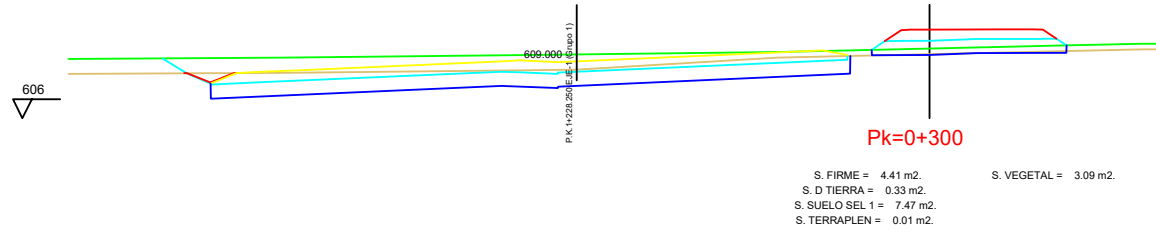
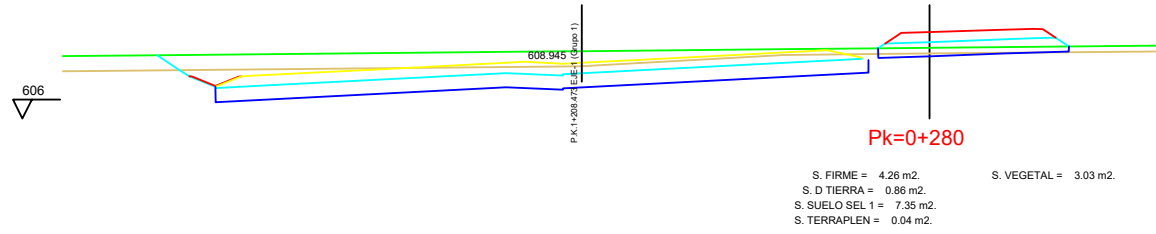
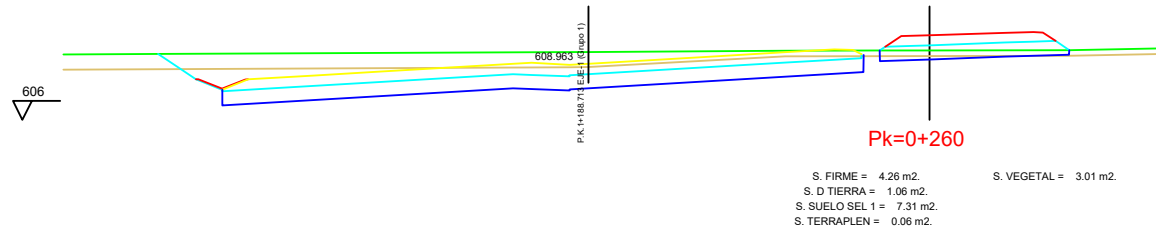
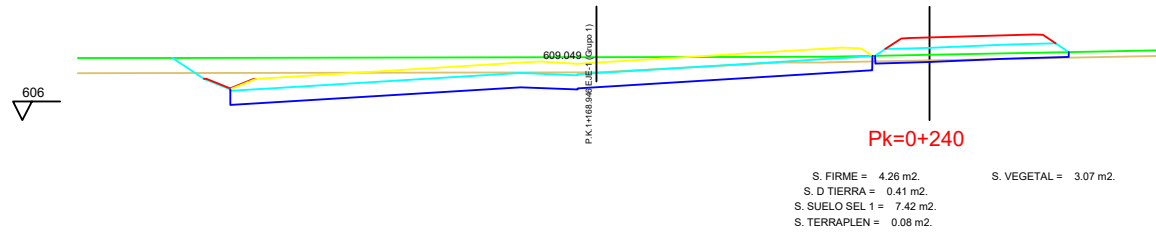
EJE 21  
PK 0+100 - 0+456,043



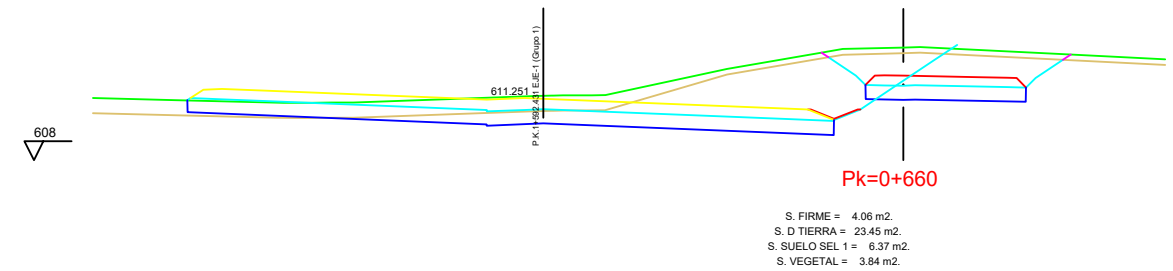
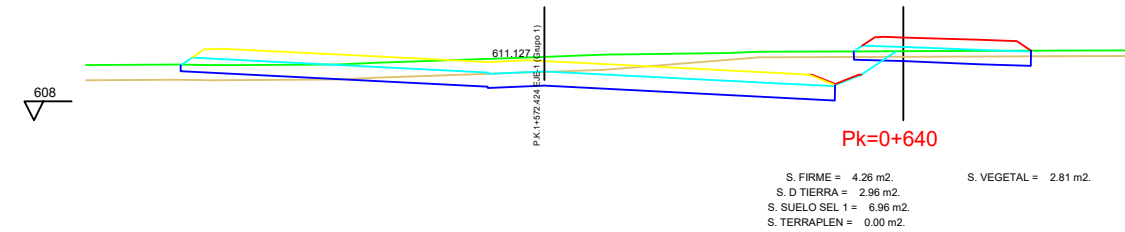
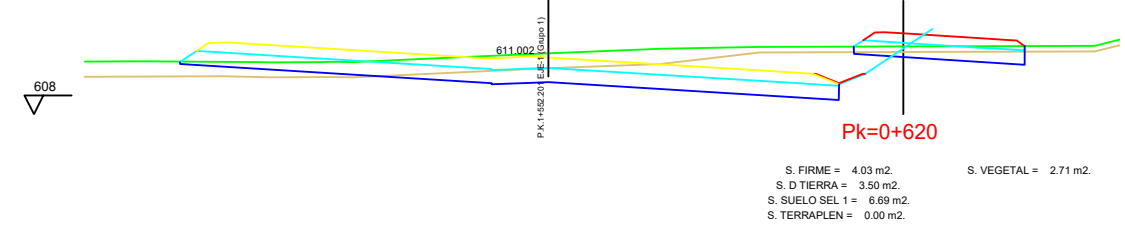
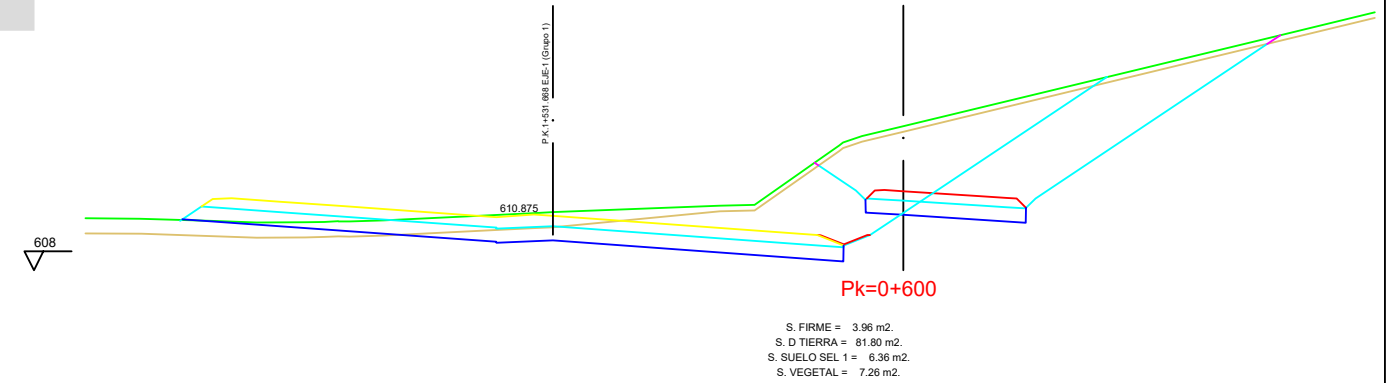
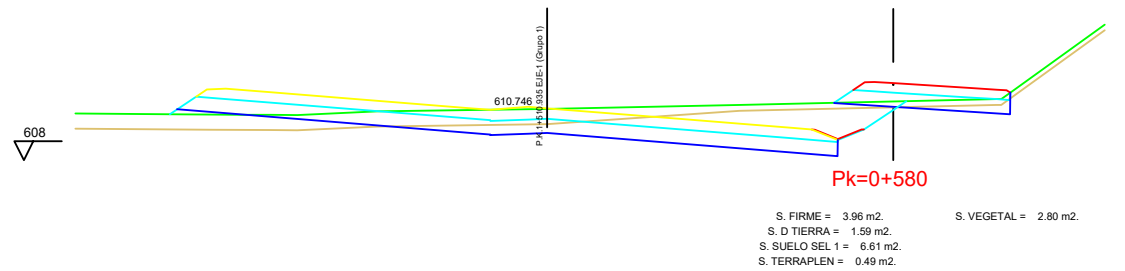
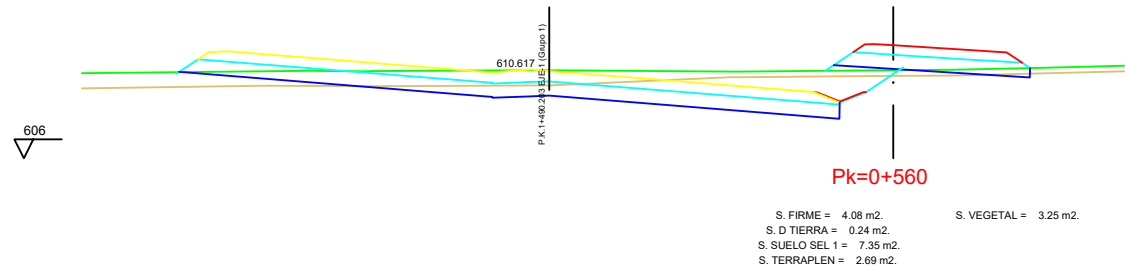
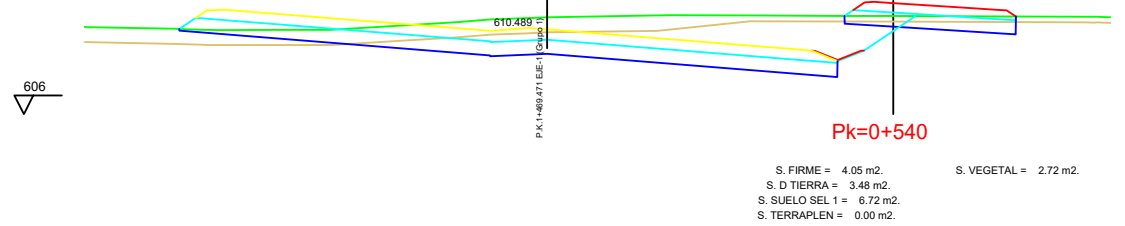
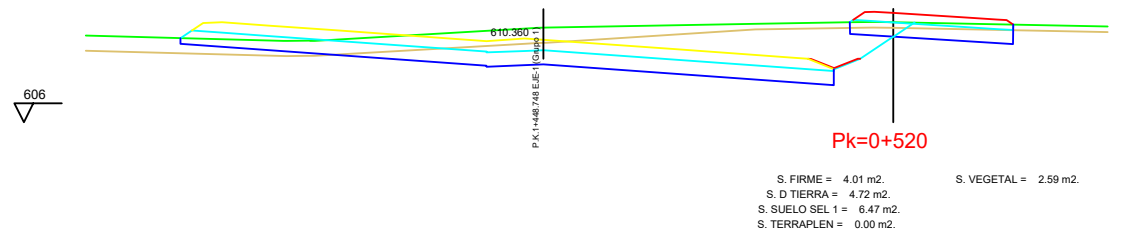
EJE 22  
PK 0+000 - 0+220



EJE 22  
PK 0+240 - 0+500

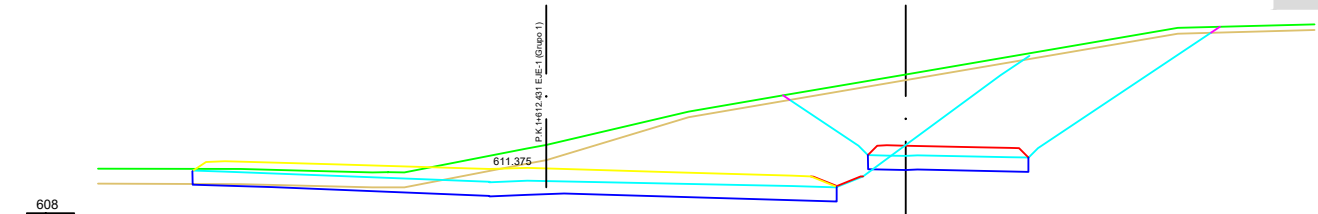


EJE 22  
PK 0+520 - 0+660



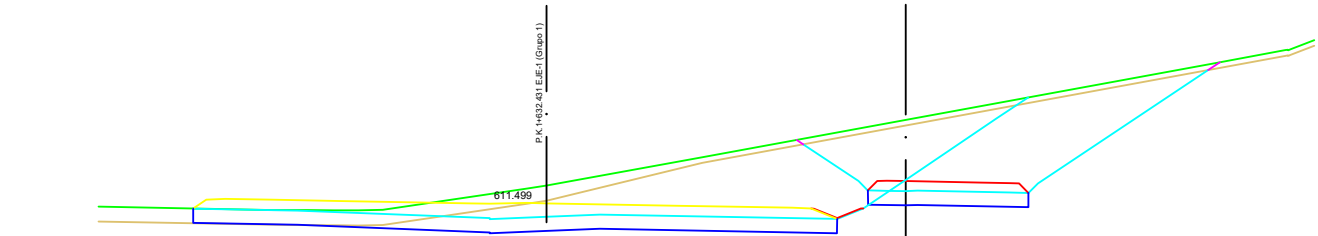


EJE 22  
PK 0+680 - 0+880



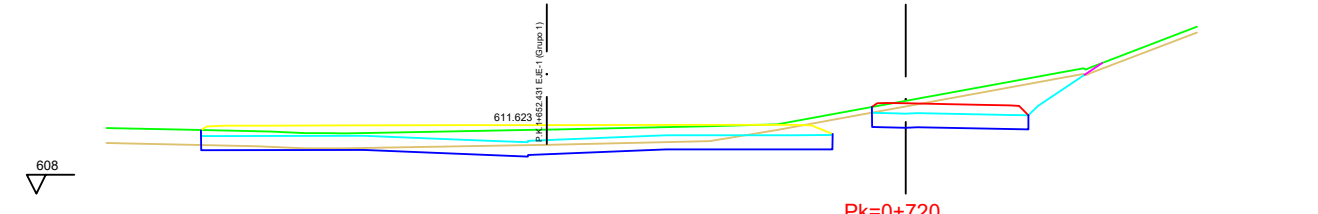
Pk=0+680

S. FIRME = 4.06 m2.  
S. D TIERRA = 76.43 m2.  
S. SUELO SEL 1 = 6.37 m2.  
S. VEGETAL = 6.81 m2.



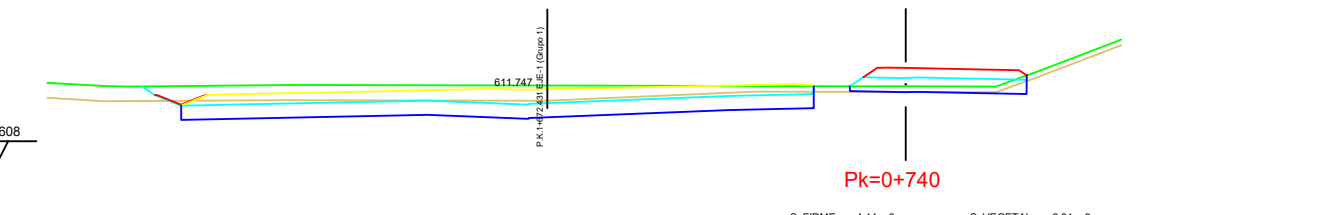
Pk=0+700

S. FIRME = 4.06 m2.  
S. D TIERRA = 66.39 m2.  
S. SUELO SEL 1 = 6.37 m2.  
S. VEGETAL = 6.57 m2.



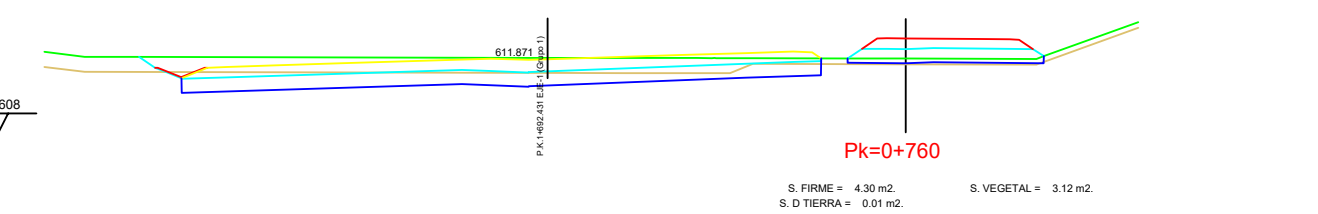
Pk=0+720

S. FIRME = 4.05 m2.  
S. D TIERRA = 15.38 m2.  
S. SUELO SEL 1 = 6.21 m2.  
S. VEGETAL = 3.50 m2.



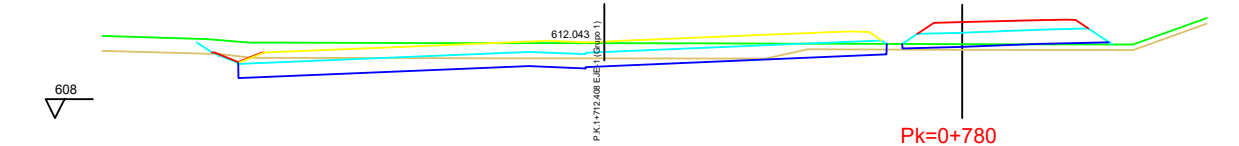
Pk=0+740

S. FIRME = 4.14 m2.  
S. D TIERRA = 0.70 m2.  
S. SUELO SEL 1 = 6.84 m2.  
S. TERRAPLEN = 0.06 m2.  
S. VEGETAL = 2.81 m2.



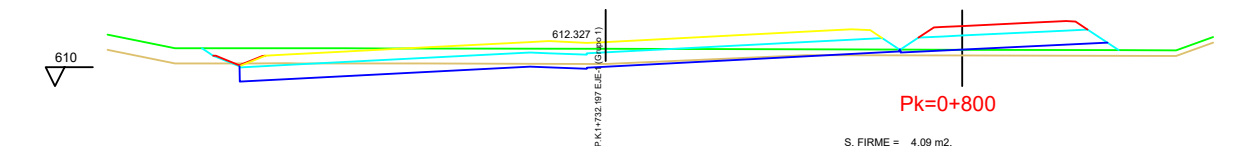
Pk=0+760

S. FIRME = 4.30 m2.  
S. D TIERRA = 0.01 m2.  
S. SUELO SEL 1 = 7.48 m2.  
S. TERRAPLEN = 0.79 m2.  
S. VEGETAL = 3.12 m2.



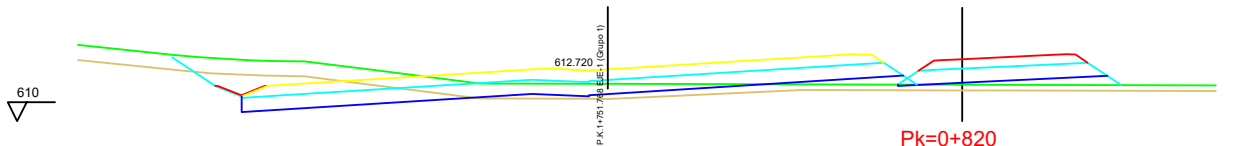
Pk=0+780

S. FIRME = 4.37 m2.  
S. SUELO SEL 1 = 7.58 m2.  
S. TERRAPLEN = 2.72 m2.  
S. VEGETAL = 3.33 m2.



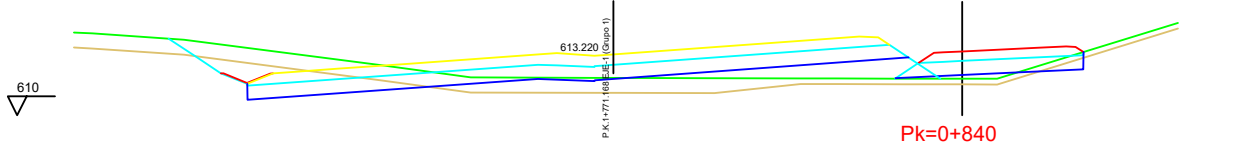
Pk=0+800

S. FIRME = 4.09 m2.  
S. SUELO SEL 1 = 7.54 m2.  
S. TERRAPLEN = 4.89 m2.  
S. VEGETAL = 3.47 m2.



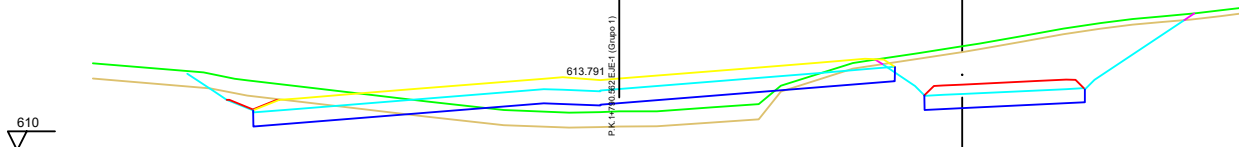
Pk=0+820

S. FIRME = 4.09 m2.  
S. SUELO SEL 1 = 7.55 m2.  
S. TERRAPLEN = 6.05 m2.  
S. VEGETAL = 3.55 m2.



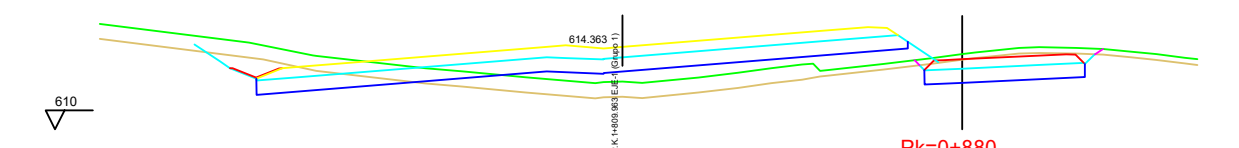
Pk=0+840

S. FIRME = 4.07 m2.  
S. D TIERRA = 0.70 m2.  
S. SUELO SEL 1 = 7.00 m2.  
S. TERRAPLEN = 3.10 m2.  
S. VEGETAL = 2.99 m2.



Pk=0+860

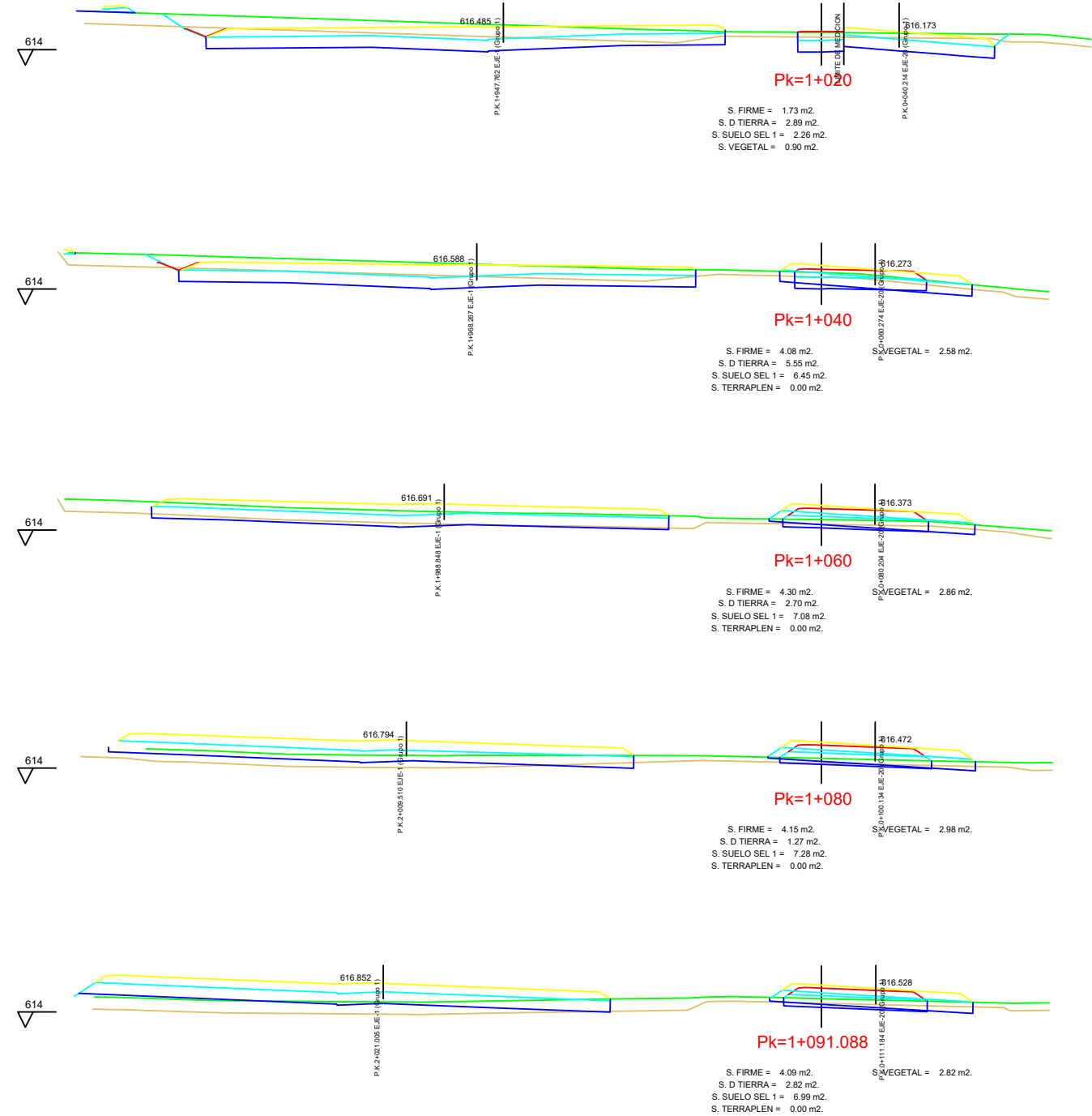
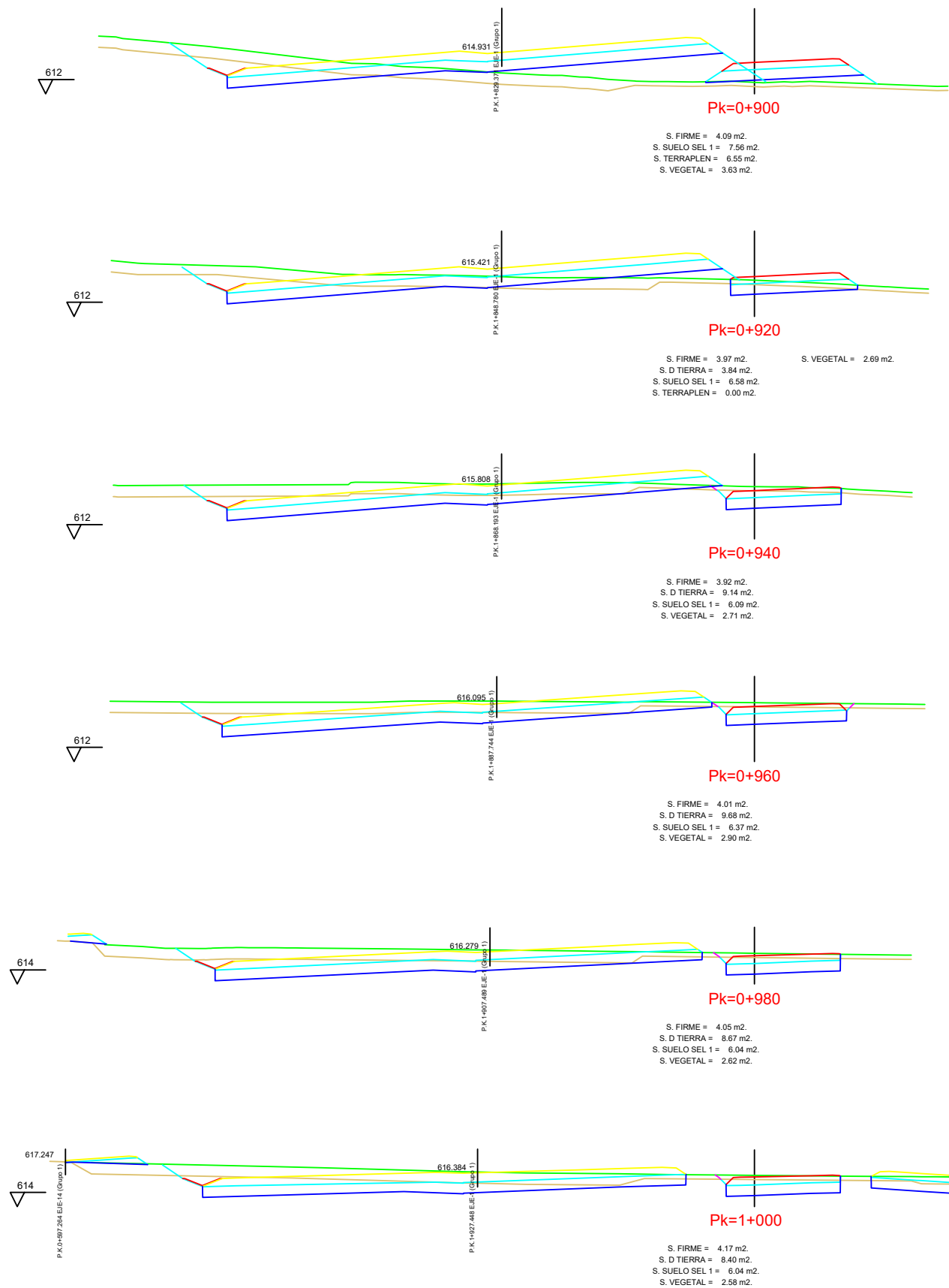
S. FIRME = 3.97 m2.  
S. D TIERRA = 37.61 m2.  
S. SUELO SEL 1 = 6.37 m2.  
S. VEGETAL = 4.93 m2.



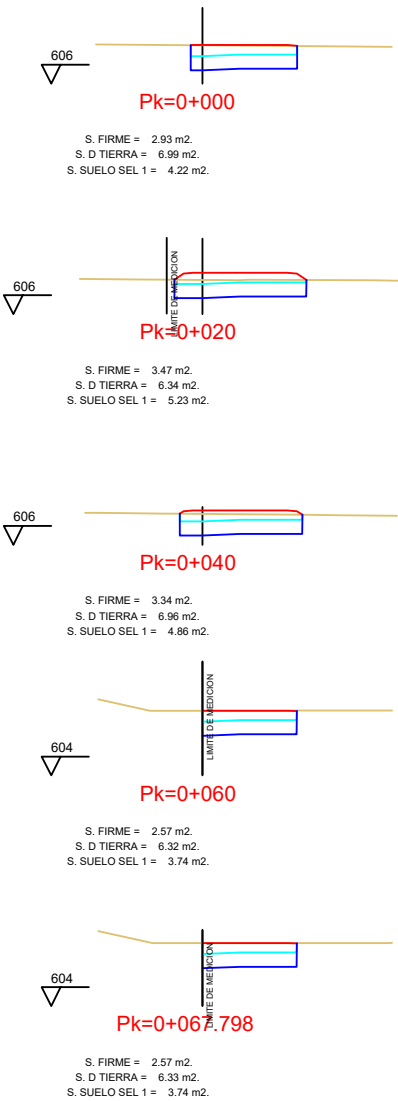
Pk=0+880

S. FIRME = 3.97 m2.  
S. D TIERRA = 11.07 m2.  
S. SUELO SEL 1 = 6.37 m2.  
S. VEGETAL = 2.89 m2.

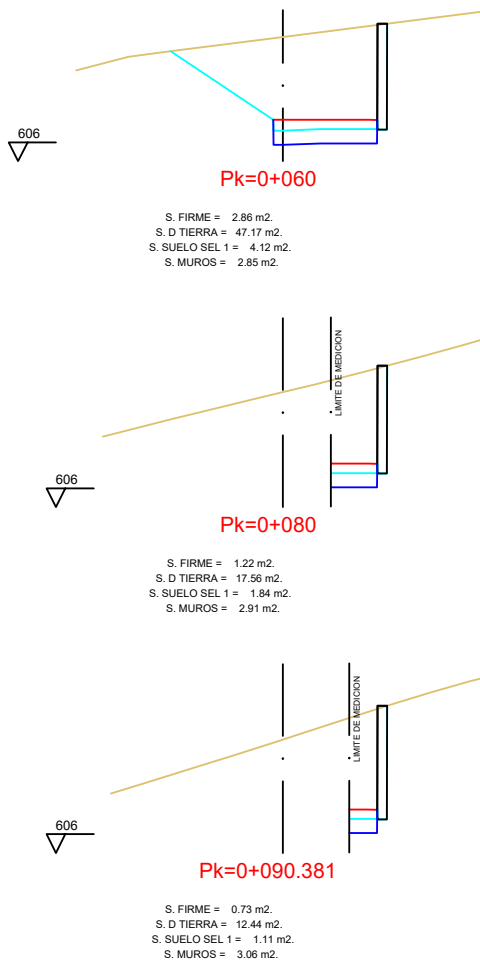
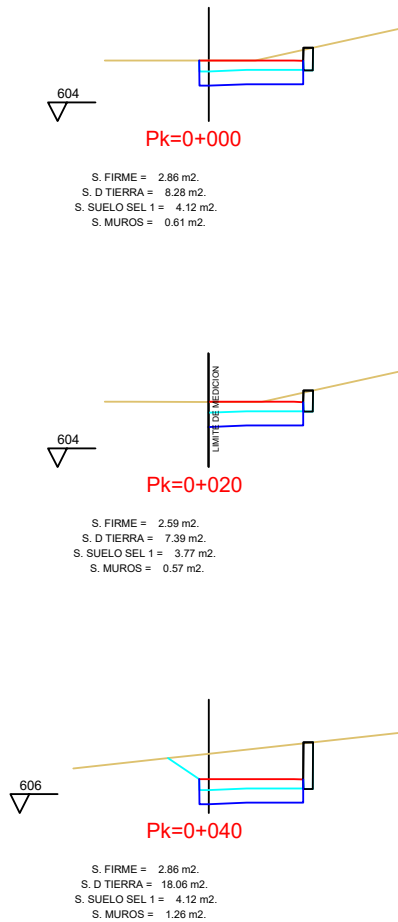
EJE 22  
PK 0+900 - 1+091,088

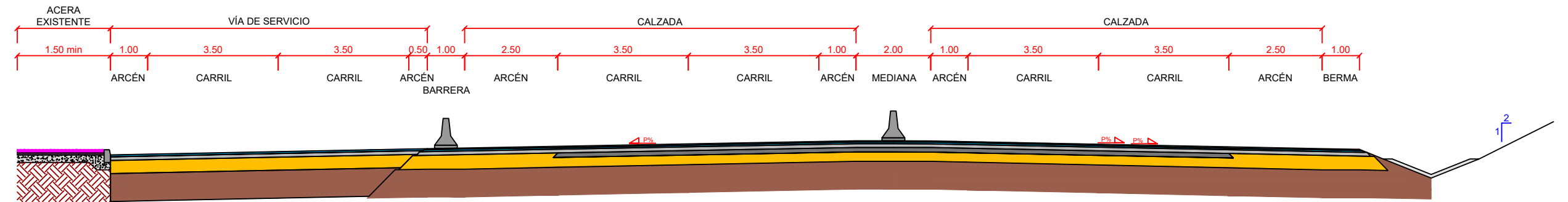


EJE 23  
PK 0+000 - 0+067,798

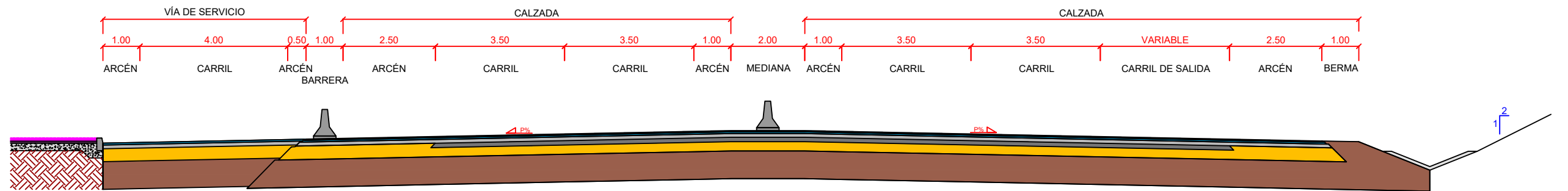


EJE 24  
PK 0+000 - 0+090,381

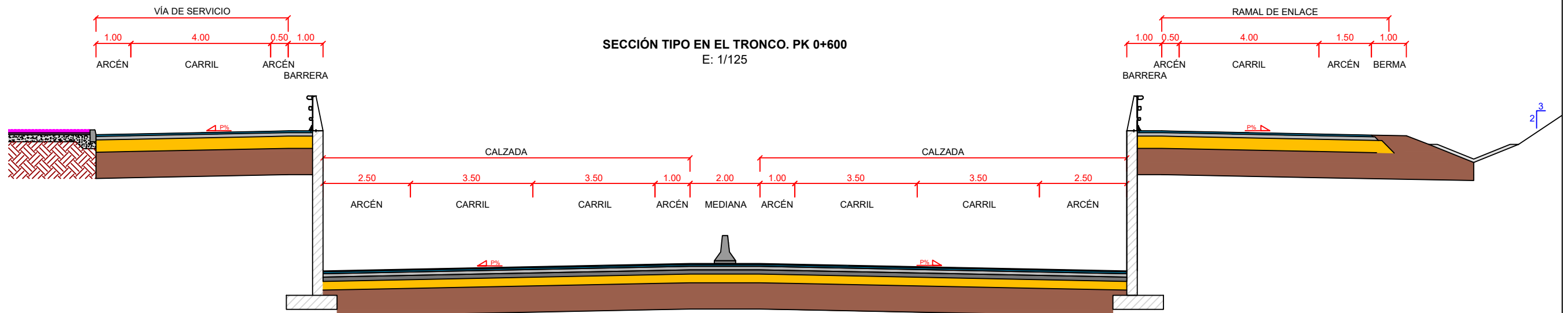




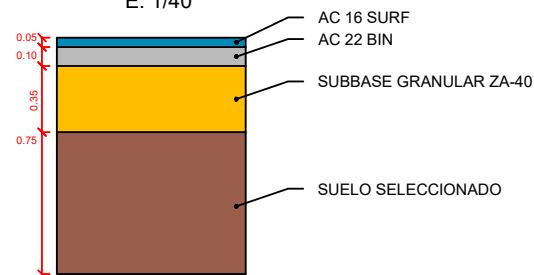
SECCIÓN TIPO EN EL TRONCO. PK 0+400  
E: 1/125



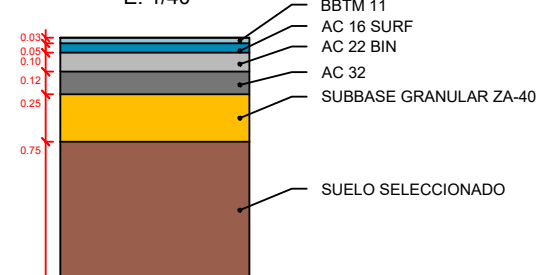
SECCIÓN TIPO EN EL TRONCO. PK 0+600  
E: 1/125



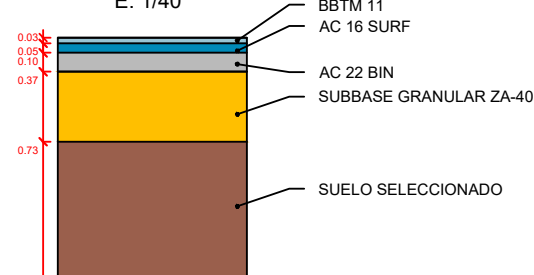
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



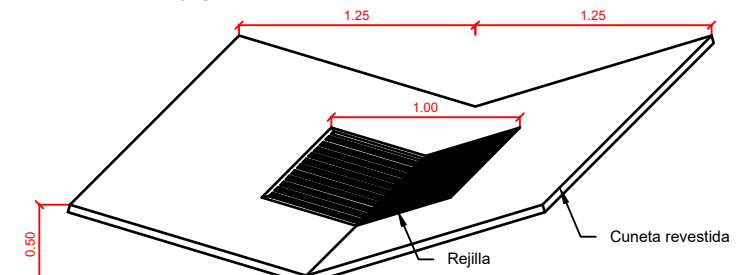
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



DETALLE CUNETA  
E: 1/40



DETALLE DE NEW JERSEY  
E: 1/40

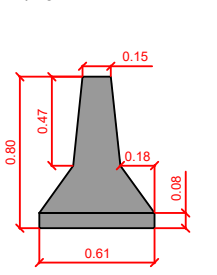




Diagrama de un perfil de carretera que muestra la sección transversal y la longitud de cada zona. La sección transversal incluye la Zona Verde, el Arcén (0.50 m), el Carril (4.00 m), otro Carril (4.00 m) y otro Arcén (1.50 m). La longitud total de la calzada es de 10.00 m. El diagrama también muestra una pendiente transversal de 3% y una elevación de 3.2 m.

Diagrama de un carril de una vía de servicio. El diagrama superior muestra las dimensiones: 0.50m de berma, 1.00m de arcén, 3.50m de carril, 3.50m de carril, 1.00m de arcén y 0.50m de berma. El diagrama inferior muestra una sección transversal del carril con una pendiente transversal de 2%.

Diagram illustrating the cross-section of a highway with dimensions and labels:

- Dimensions (m):** 1.00, 2.50, 3.50, 3.50, 3.50, 1.00, 2.00, 1.00, 3.50, 3.50, 3.50, 2.50, 1.00, 0.50, 4.00, 1.00.
- Labels:** BARRERA, ARCÉN, CARRIL, CARRIL, CARRIL, ARCÉN, MEDIANA, ARCÉN, CARRIL, CARRIL, CARRIL, ARCÉN, BARRERA, ARCÉN, CARRIL, ARCÉN.
- Section Labels:** CALZADA, CALZADA, VÍA DE SERVICIO.
- Gradients:** -1.0%, -1.0%.
- Other:** A small blue '2' and '1' are visible on the left side of the diagram.

Diagrama de un carril de ferrocarril con las siguientes dimensiones:

- VÍA DE SERVICIO:** 10.00 m (suma de 0.50 + 1.00 + 3.50 + 3.50 + 1.00 + 0.50)
- BERMA:** 0.50 m (a cada lado)
- ARCÉN:** 1.00 m (a cada lado)
- CARRIL:** 3.50 m (a cada lado)

Sección transversal de la vía:

- Sección 1-1 (izquierda): Muestra la estructura de la vía con el carril y el arcén.
- Sección 2-2 (derecha): Muestra la estructura de la vía con el carril y el arcén.
- Sección P-P (centro): Muestra la sección transversal de la vía con el carril y el arcén.

Diagrama de la sección transversal de la vía de servicio. Muestra la distribución de anchuras: 0.50m de berma, 1.00m de arcén, 3.50m de carril, 3.50m de carril, 1.00m de arcén y 0.50m de berma. Se indica la "VÍA DE SERVICIO" y la "CALZADA ACTUAL ZONA ENTRE CARRILES".

Diagrama de la estructura de pavimento. Muestra una sección transversal con cuatro capas:

- AC 16 SURF (0.05 m)
- AC 22 BIN (0.10 m)
- SUBBASE GRANULAR ZA-40 (0.35 m)
- SUELO SELECCIONADO (0.75 m)

Diagrama de la estructura de pavimento de la Ruta 100. El diagrama muestra una sección transversal de un pavimento con varias capas. Desde la superficie hacia abajo, las capas son:

- AC 16 SURF (0.03 m)
- AC 22 BIN (0.05 m)
- AC 32 (0.10 m)
- SUBBASE GRANULAR ZA-40 (0.12 m)
- SUELO SELECCIONADO (0.25 m)

Diagrama de la estructura de pavimento para la Variante 1. Se muestra una sección transversal con las siguientes capas y espesores:

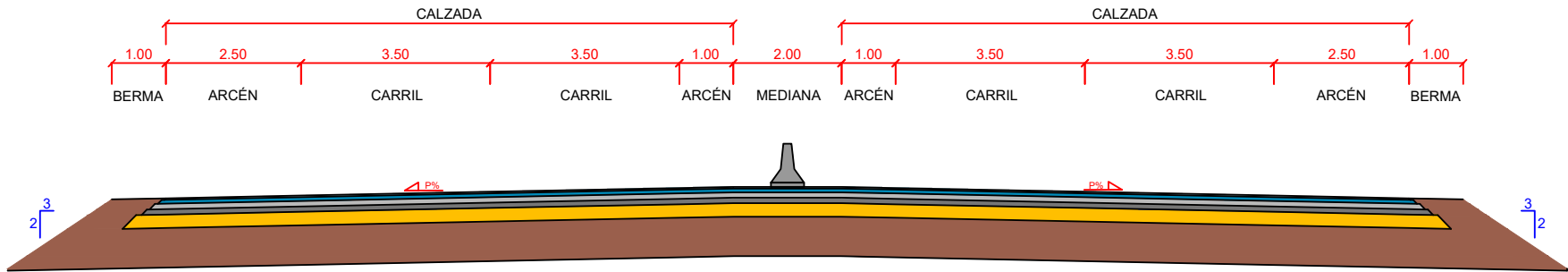
- AC 16 SURF: 0.03
- AC 22 BIN: 0.05
- SUBBASE GRANULAR ZA-40: 0.10
- SUELO SELECCIONADO: 0.37

El espesor total de las capas de pavimento es de 0.73.

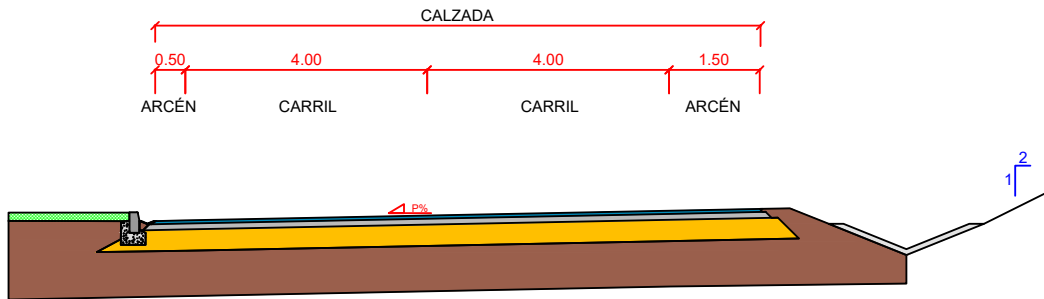
Technical drawing of a rectangular drainage grate. The grate is shown in perspective, with dimensions indicated in red: a width of 1.25, a depth of 1.25, and a central rectangular area of 1.00. A vertical dimension of 0.50 is shown on the left side. Labels include "Rejilla" pointing to the grate and "Cuneta revestida" pointing to the surrounding channel.

Diagram of a trapezoidal block with dimensions: top width 0.15, bottom width 0.61, total height 0.80, top section height 0.47, top section top width 0.18, and top section bottom width 0.08.

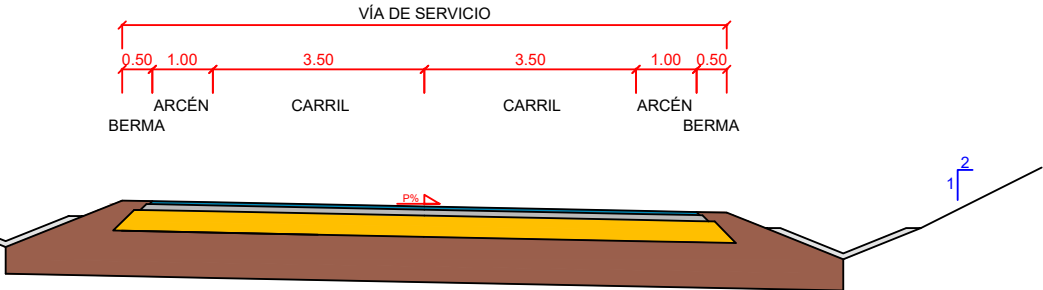
SECCIÓN TIPO EN EL TRONCO. PK 2+700  
E: 1/125



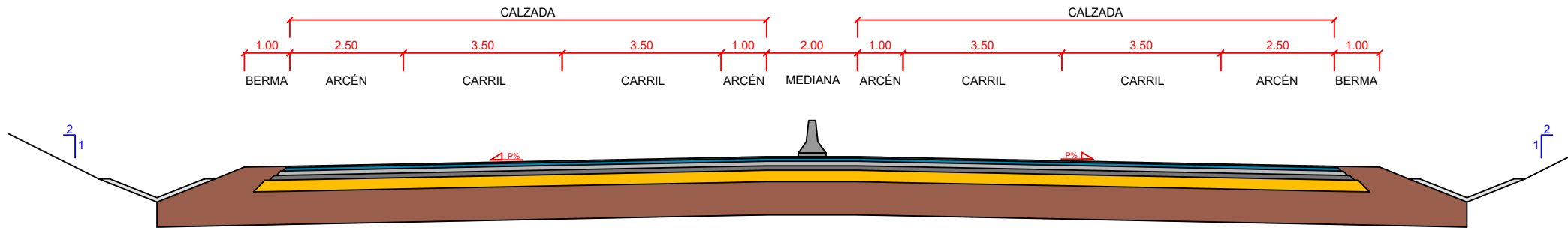
SECCIÓN TIPO GLORIETA ACCESOS A  
PRISIÓN MILITAR  
E: 1/125



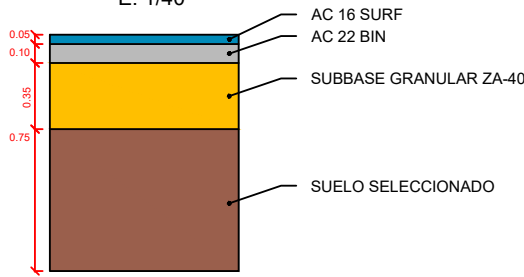
SECCIÓN TIPO ENLACE 2 - ACCESOS A DEPÓSITOS  
E: 1/125



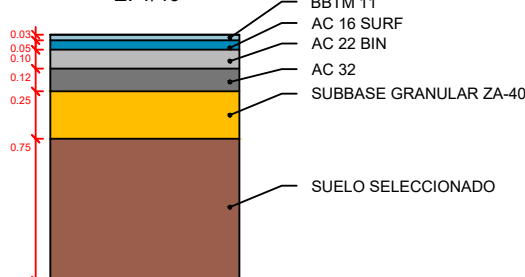
SECCIÓN TIPO EN EL TRONCO. PK 3+800  
E: 1/125



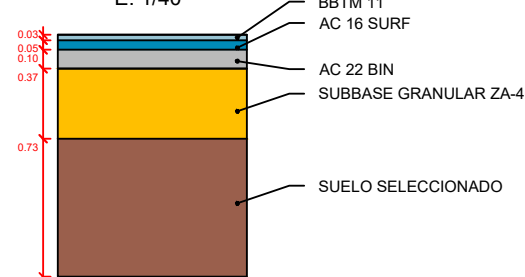
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



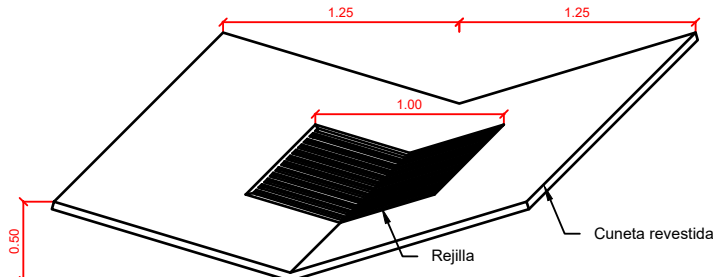
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



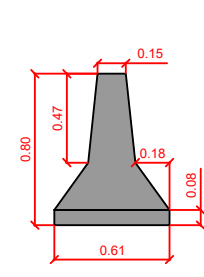
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



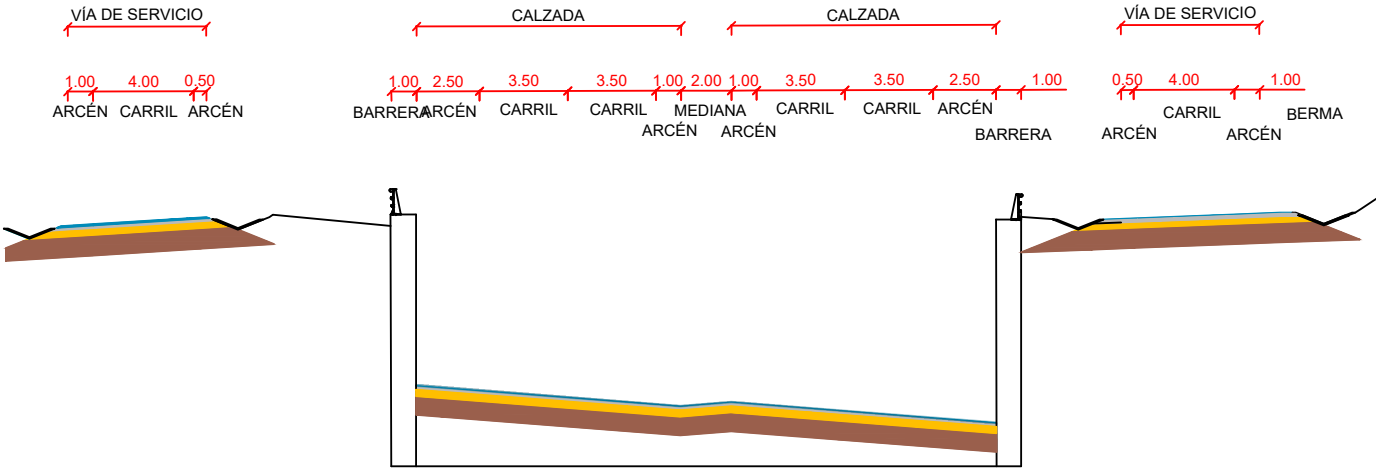
DETALLE CUNETA  
E: 1/40



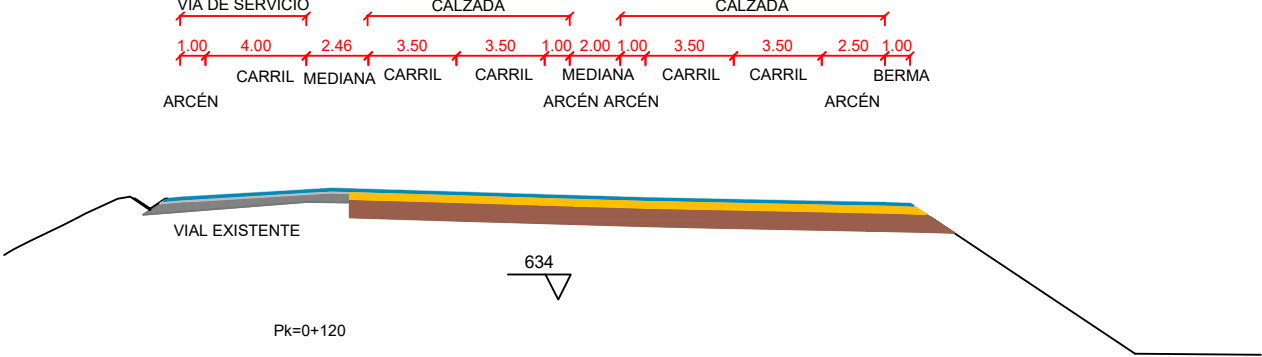
DETALLE DE NEW JERSEY  
E: 1/40



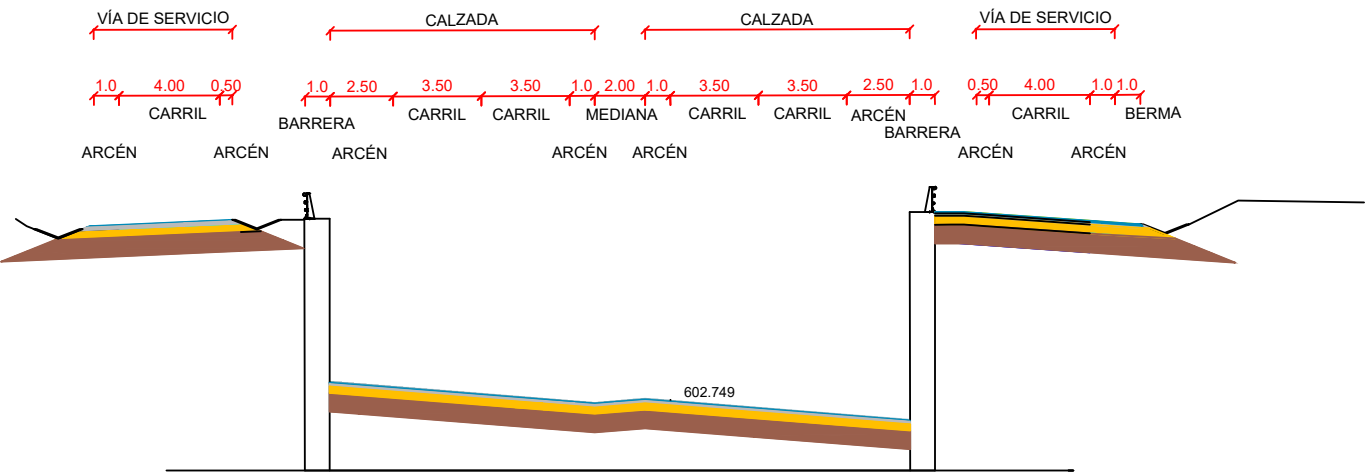
SECCIÓN A-A' TIPO EN EL TRONCO  
PK 0+745  
E: 1/300



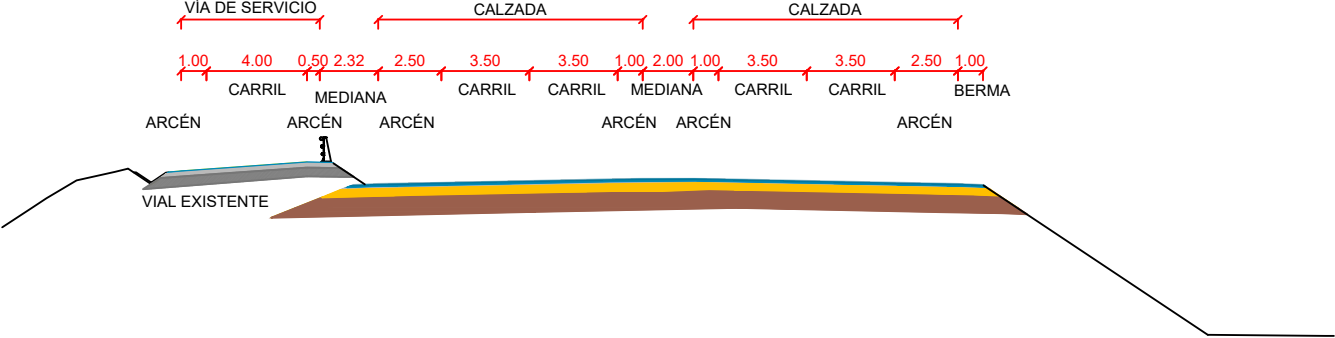
SECCIÓN C-C' TIPO EN EL TRONCO  
PK 3+260  
E: 1/300



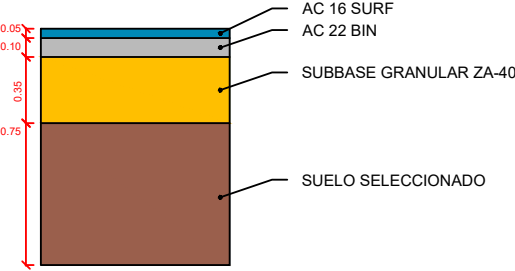
SECCIÓN B-B' TIPO EN EL TRONCO  
PK 0+725  
E: 1/300



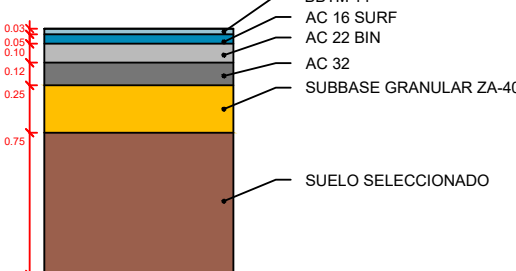
SECCIÓN D-D' TIPO EN EL TRONCO  
PK 3+280  
E: 1/300



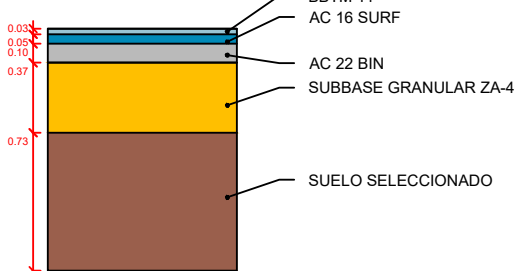
DETALLE PAVIMENTO  
VÍA DE SERVICIO  
E: 1/40



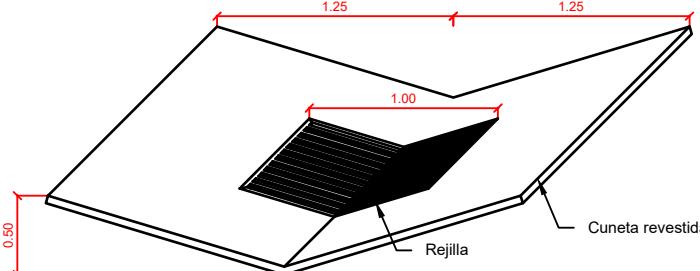
DETALLE PAVIMENTO  
TRONCO  
E: 1/40



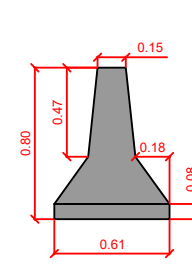
DETALLE PAVIMENTO  
ARCÉN TRONCO  
E: 1/40



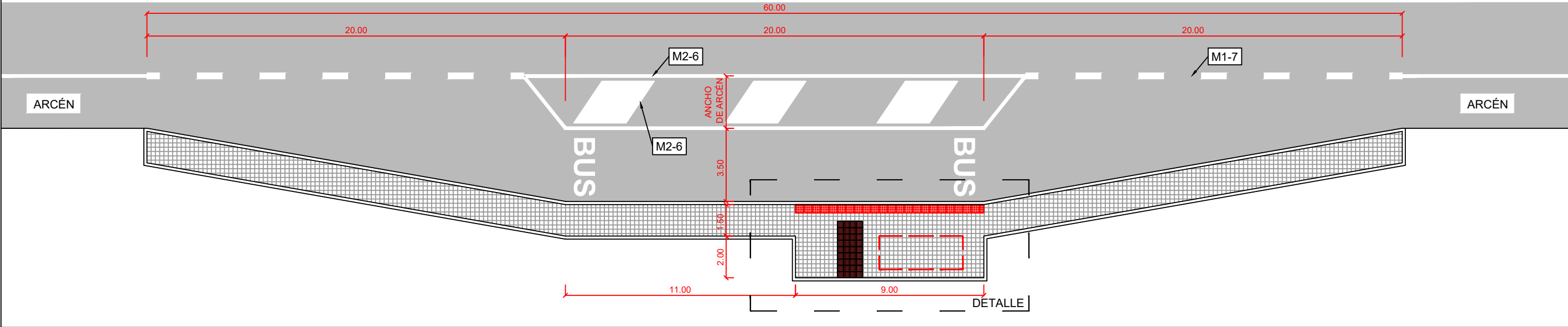
DETALLE CUNETA  
E: 1/40



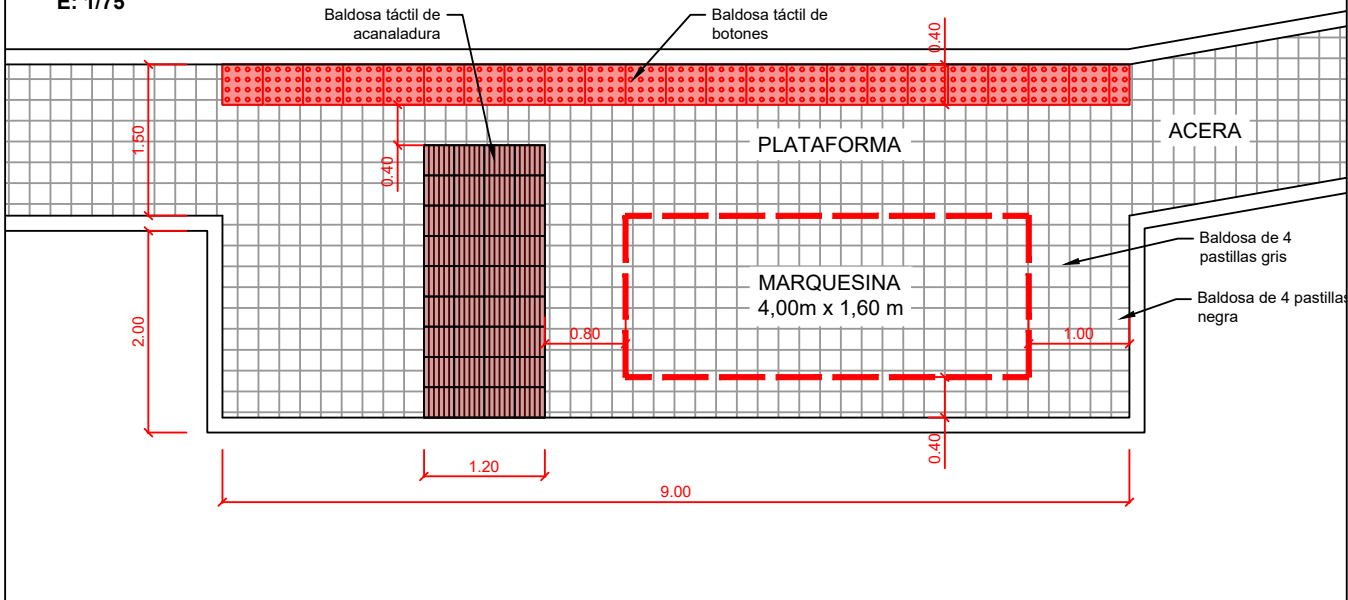
DETALLE DE NEW JERSEY  
E: 1/40



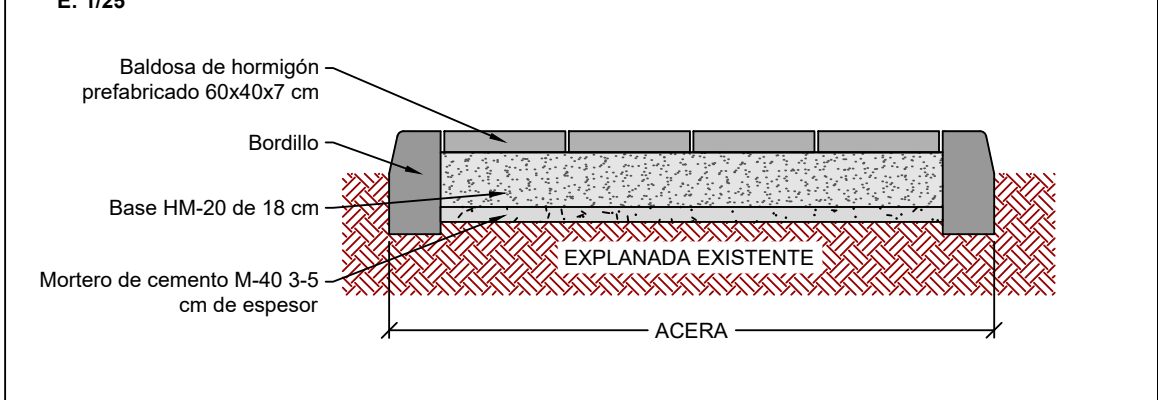
PLANTA TIPO DE DÁRSENA PARA PARADA DE AUTOBÚS  
E: 1/200



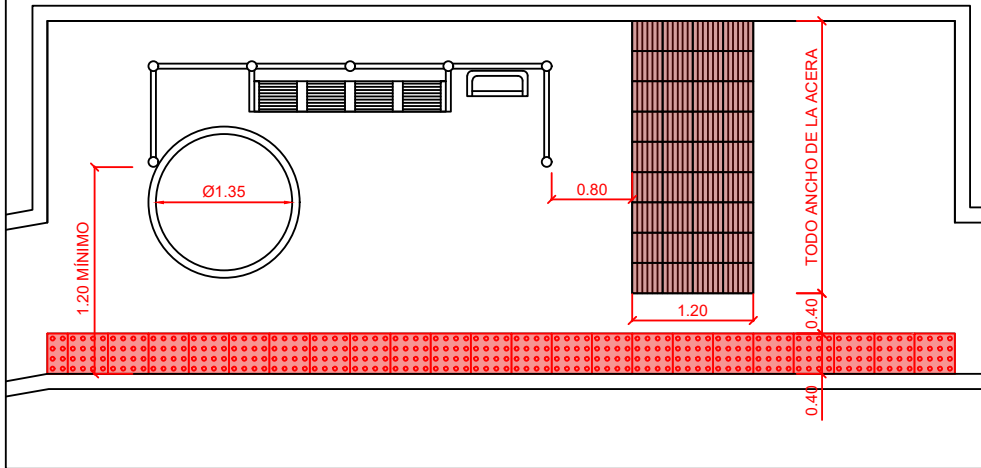
DETALLE  
E: 1/75



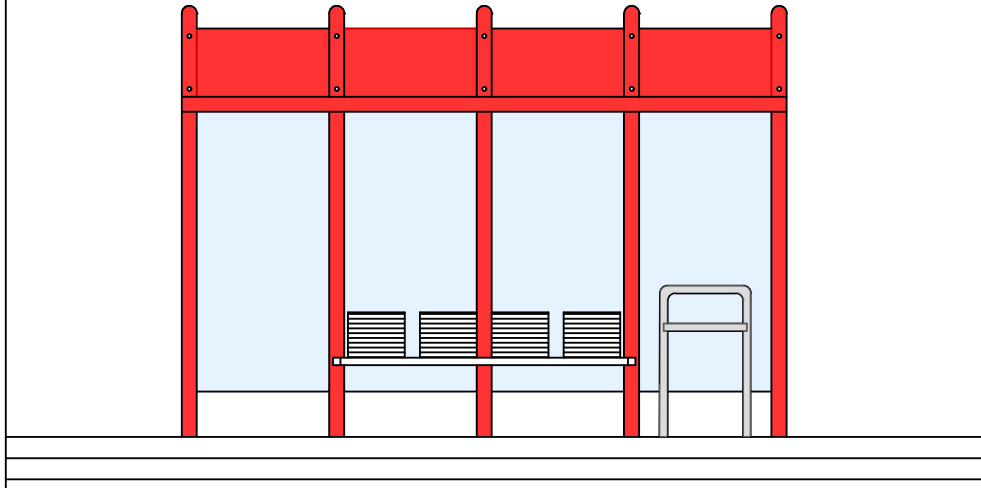
SECCIÓN TIPO ACERA  
E: 1/25



PLANTA MARQUESINA  
E: 1/75

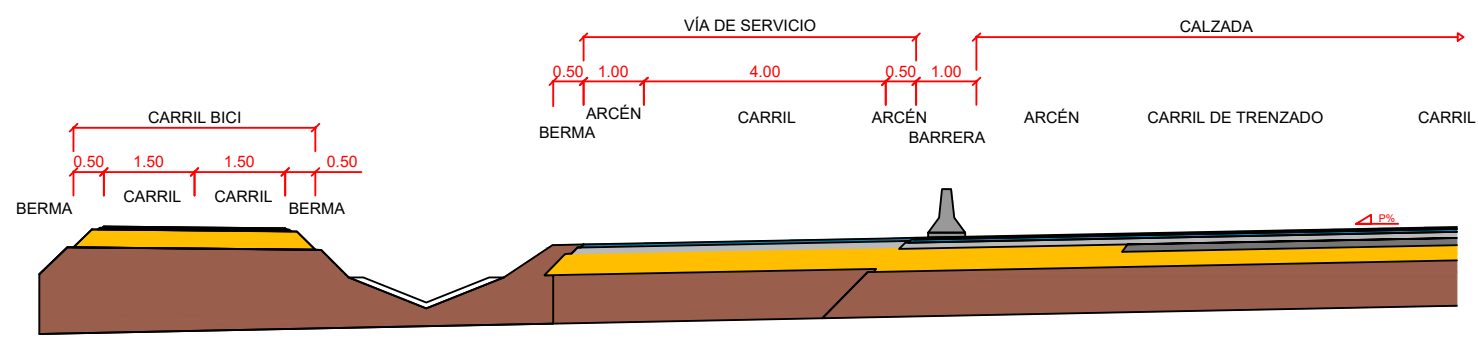


ALZADO MARQUESINA  
E: 1/75

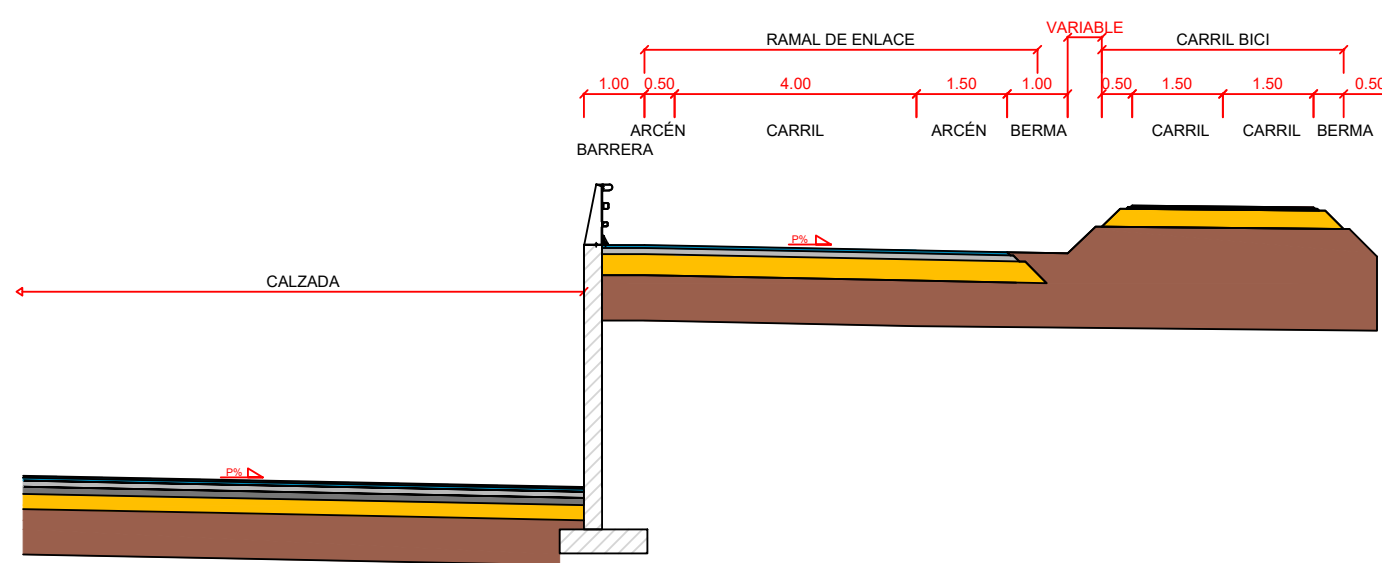




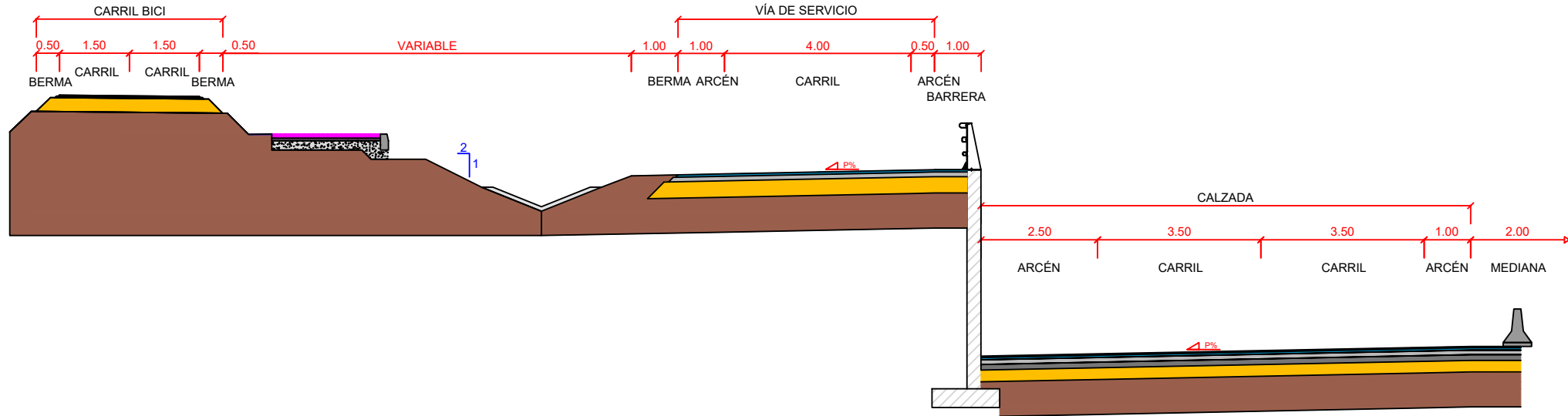
SECCIÓN CARRIL BICI PK 1+370  
E: 1/125



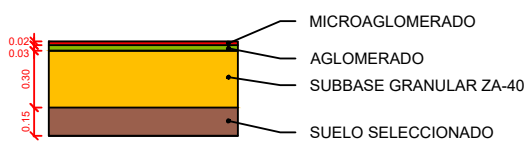
SECCIÓN TIPO CARRIL BICI PK 0+610  
E: 1/125

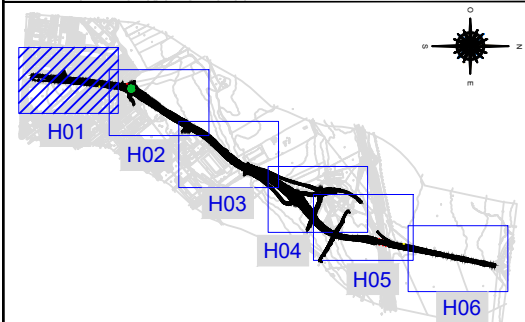
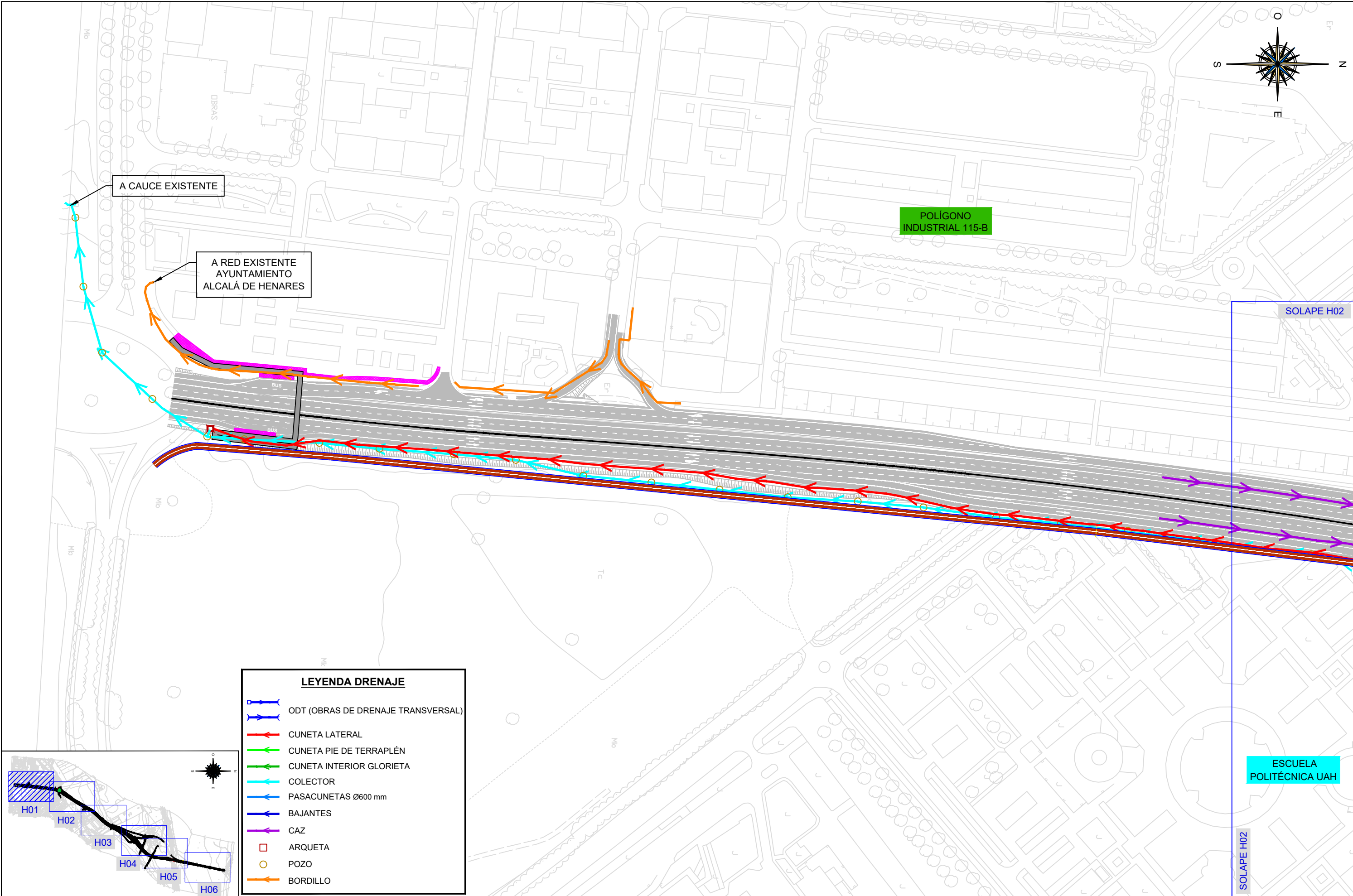


SECCIÓN TIPO CARRIL BICI. PK 1+020  
E: 1/125



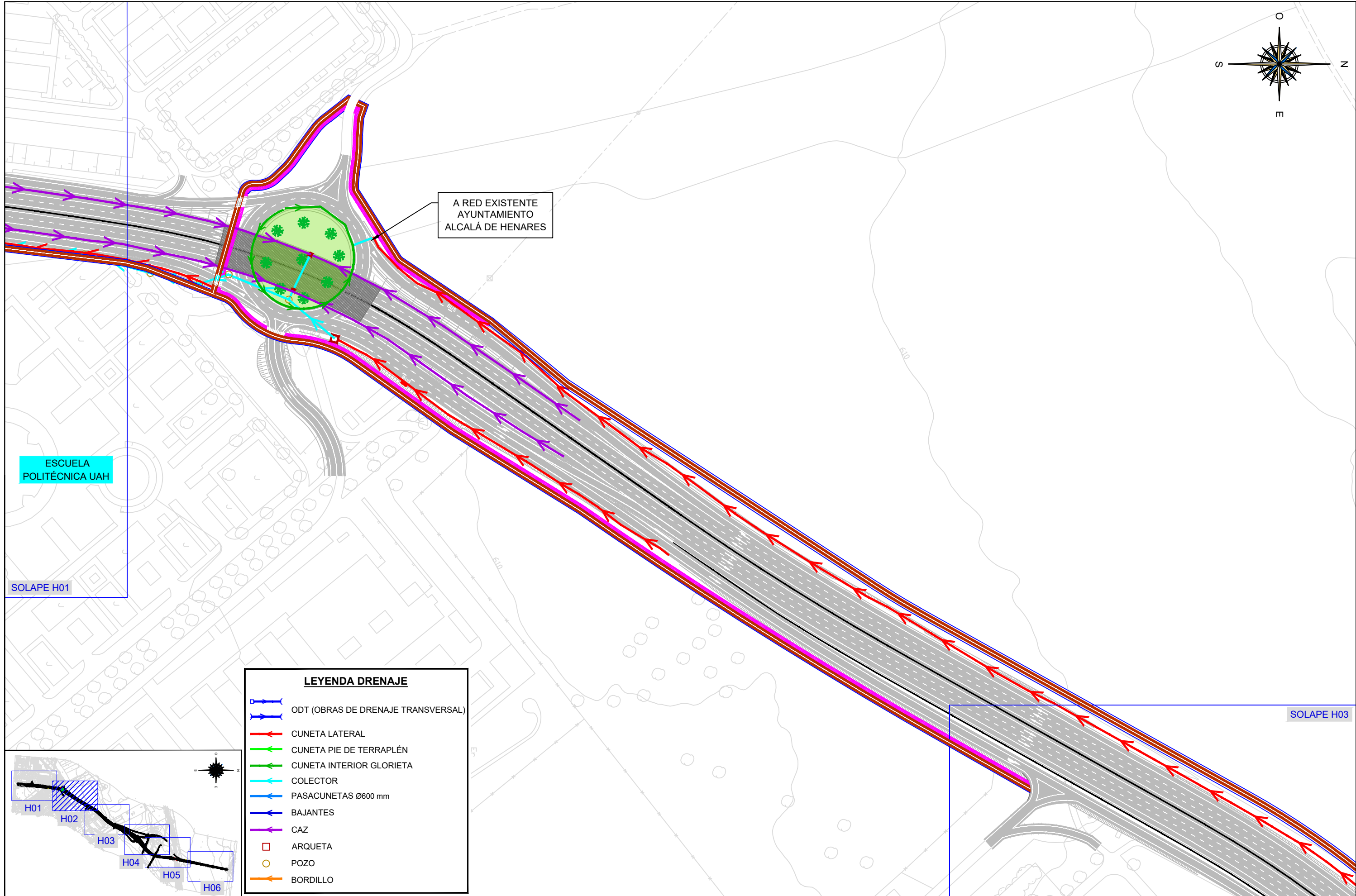
DETALLE PAVIMENTO CARRIL BICI  
E: 1/40



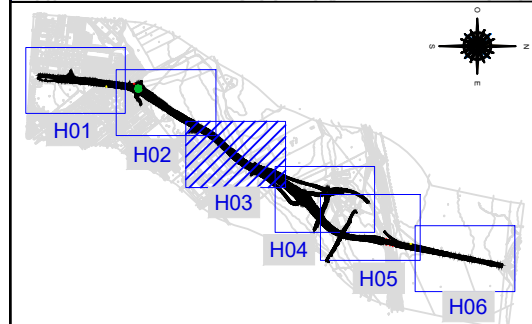
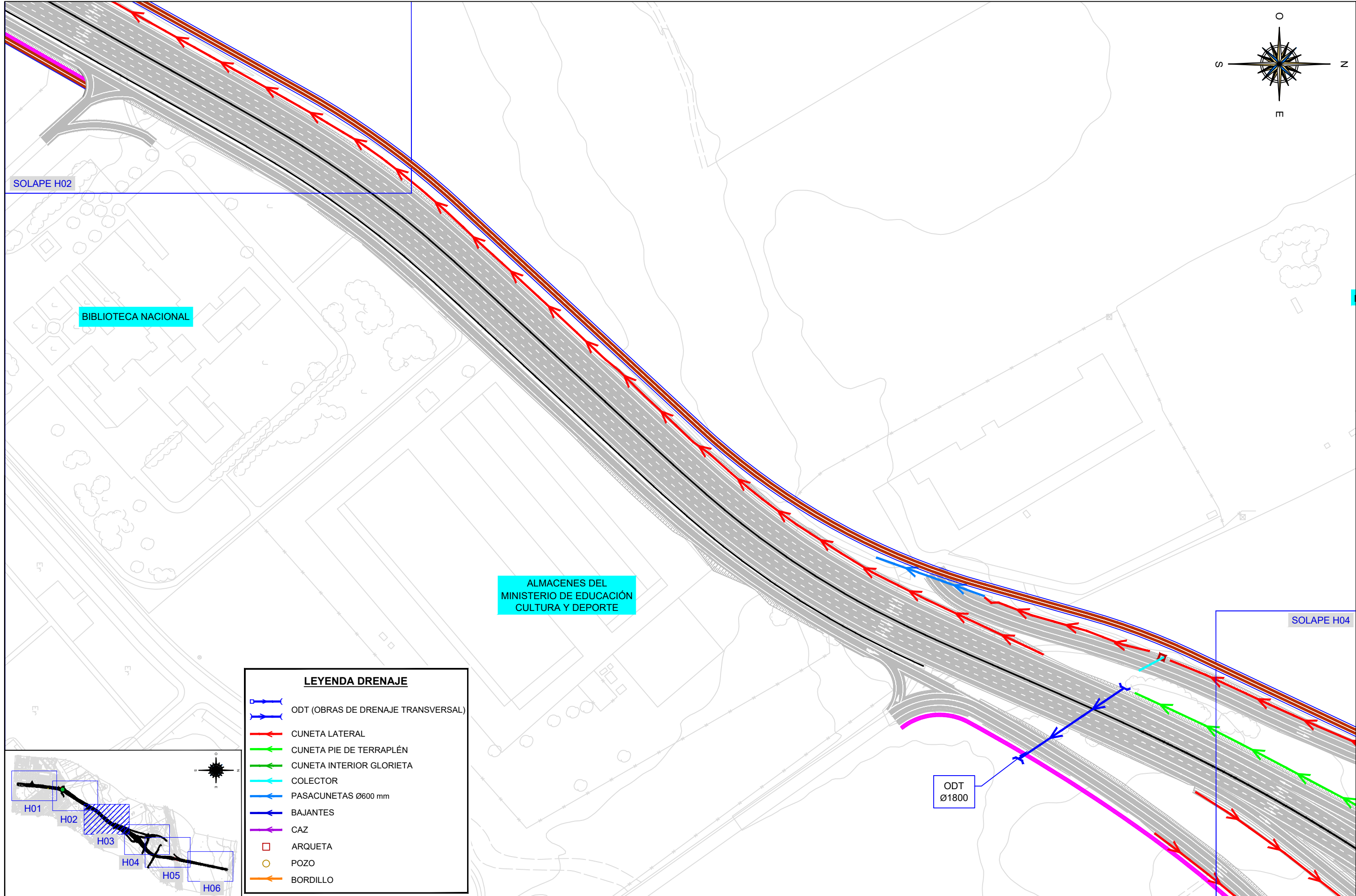


**LEYENDA DRENAJE**

- ODT (OBRAS DE DRENAJE TRANSVERSAL)
- CUNETA LATERAL
- CUNETA PIE DE TERRAPLÉN
- CUNETA INTERIOR GLORIETA
- COLECTOR
- PASACUNETAS Ø600 mm
- BAJANTES
- CAZ
- ARQUETA
- POZO
- BORDILLO

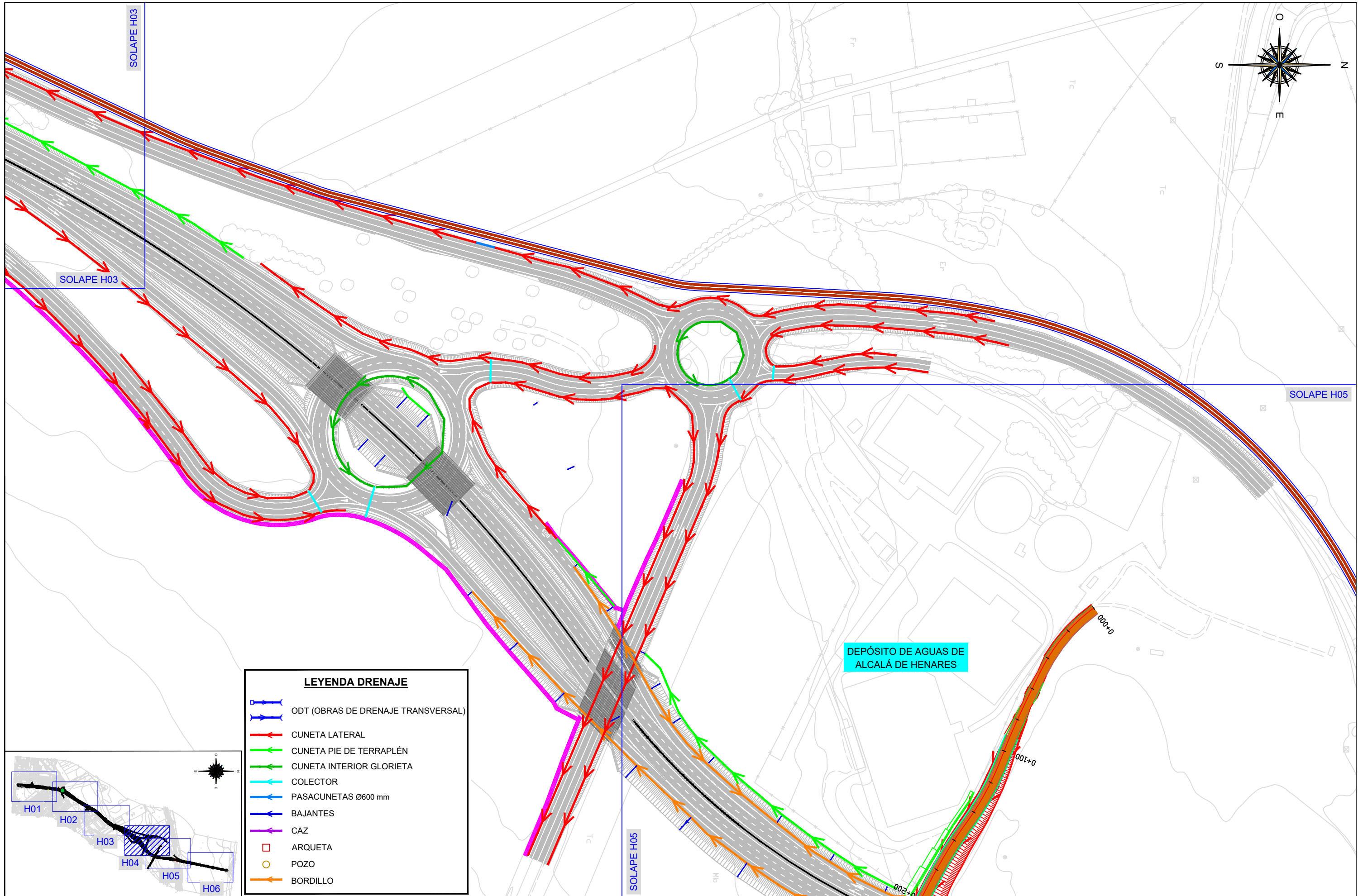


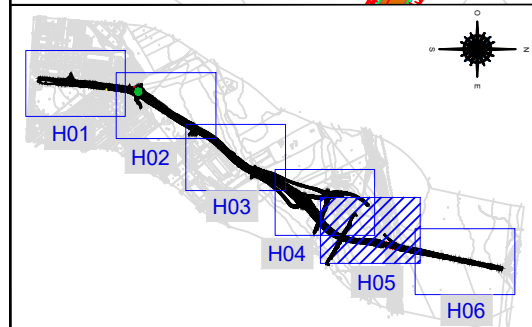
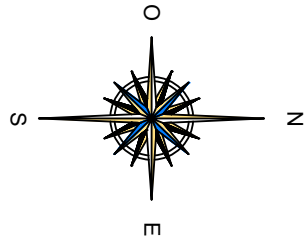
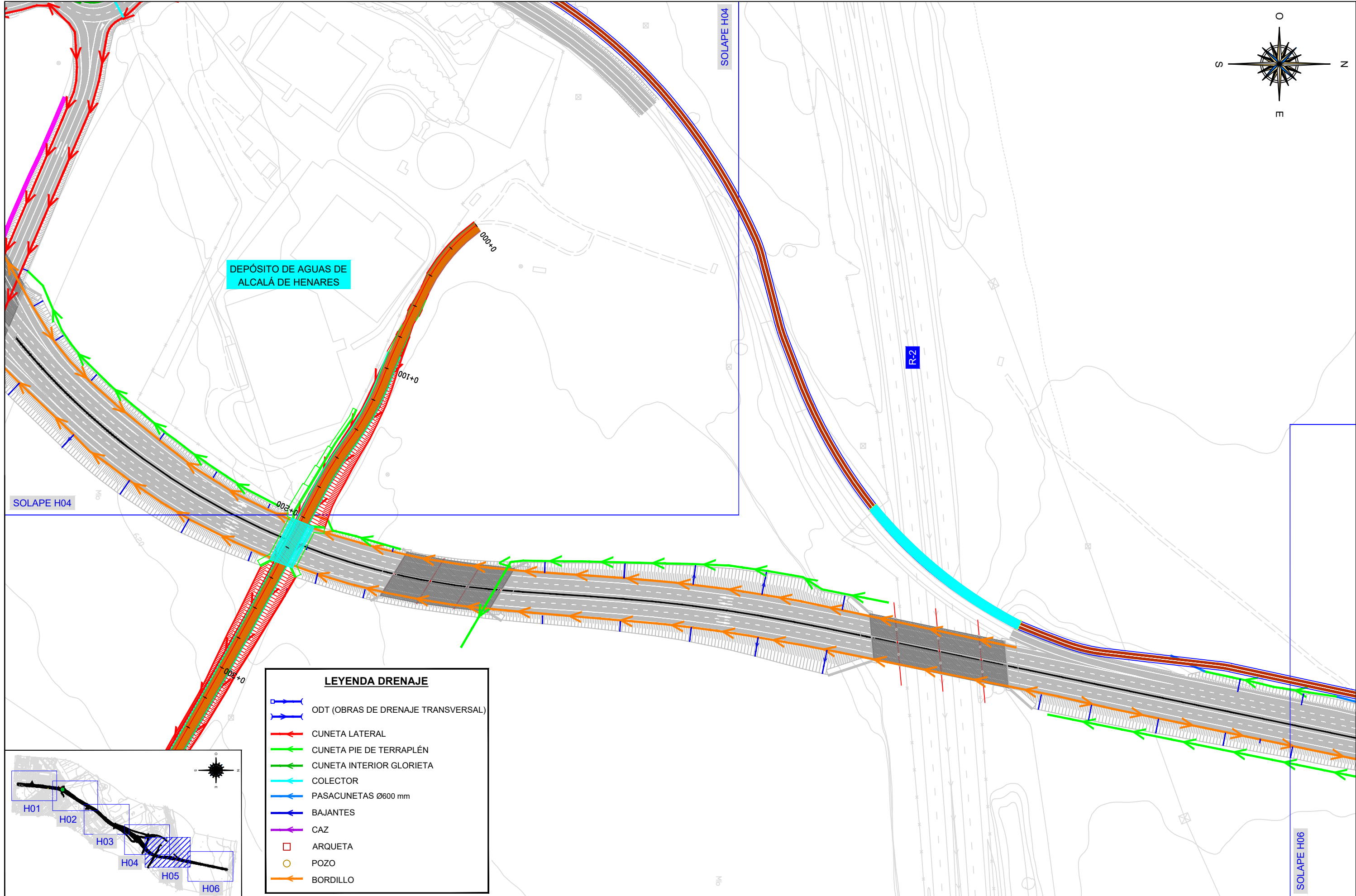




LEYENDA DRENAJE	
	ODT (OBRAS DE DRENAJE TRANSVERSAL)
	CUNETA LATERAL
	CUNETA PIE DE TERRAPLÉN
	CUNETA INTERIOR GLORIETA
	COLECTOR
	PASACUNETAS Ø600 mm
	BAJANTES
	CAZ
	ARQUETA
	POZO
	BORDILLO



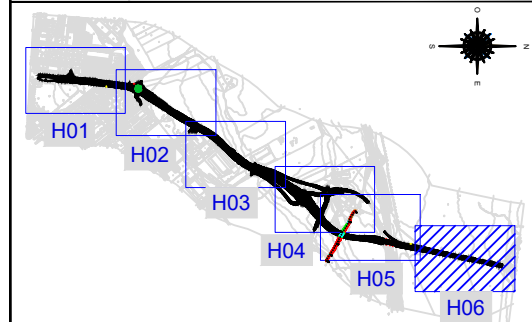
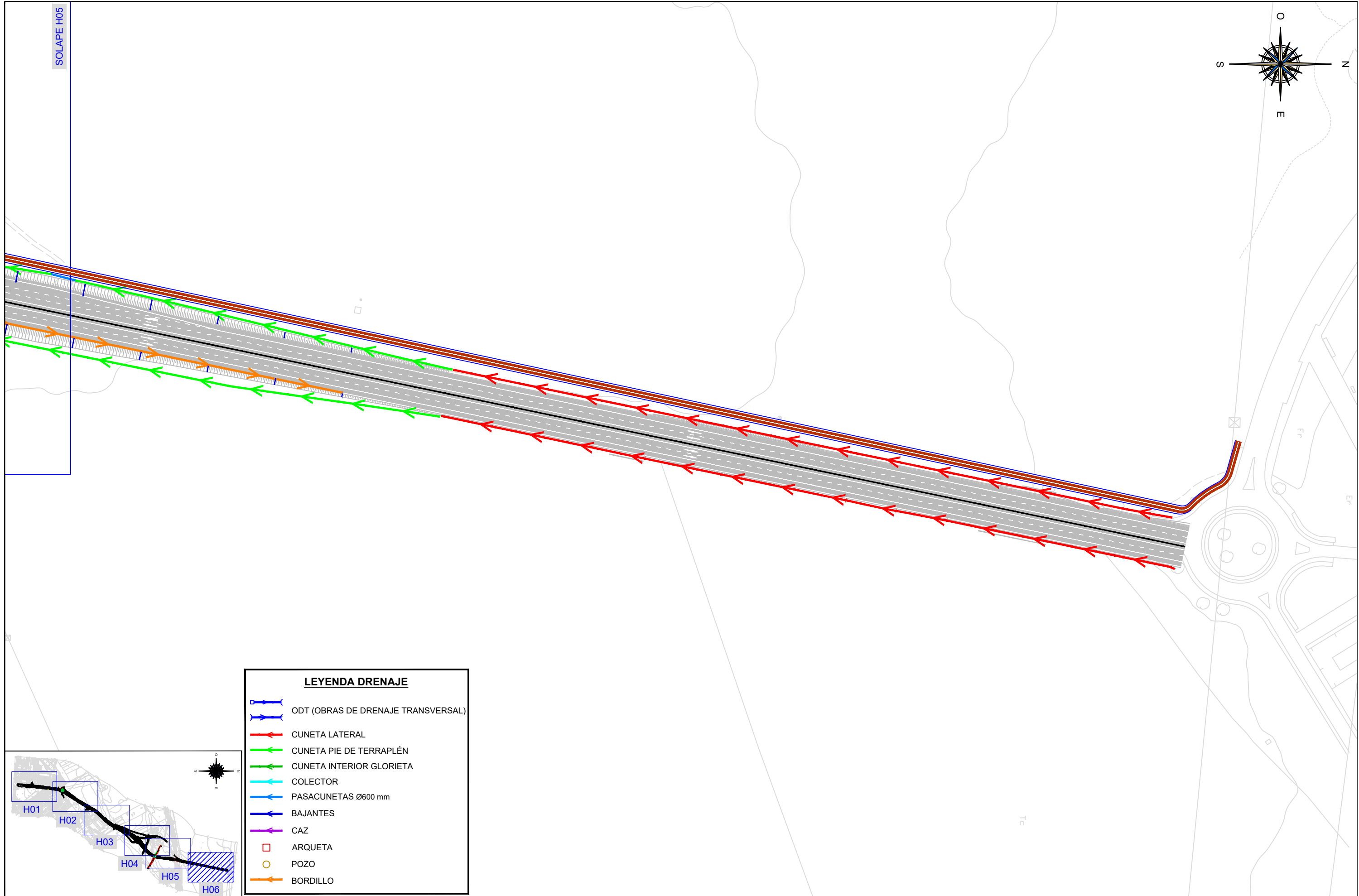




**LEYENDA DRENAJE**

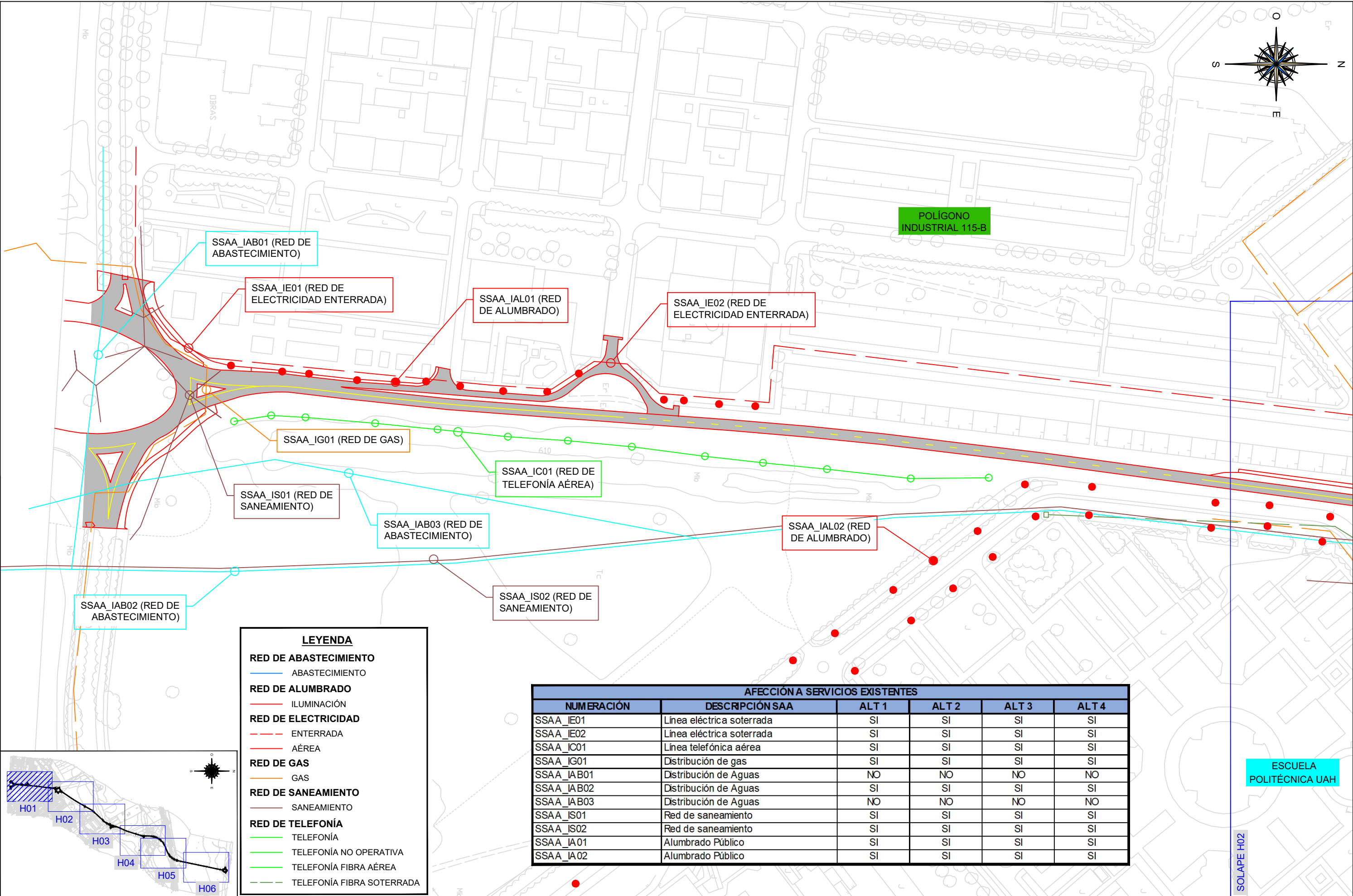
- ODT (OBRAS DE DRENAJE TRANSVERSAL)
- CUNETA LATERAL
- CUNETA PIE DE TERRAPLÉN
- CUNETA INTERIOR GLORIETA
- COLECTOR
- PASACUNETAS Ø600 mm
- BAJANTES
- CAZ
- ARQUETA
- POZO
- BORDILLO



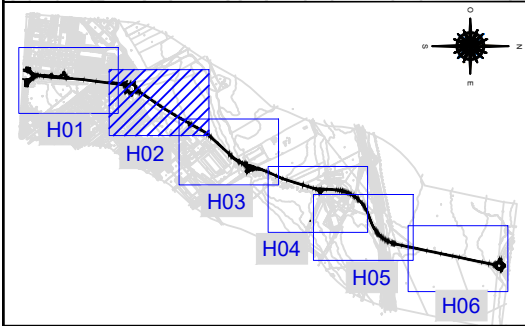
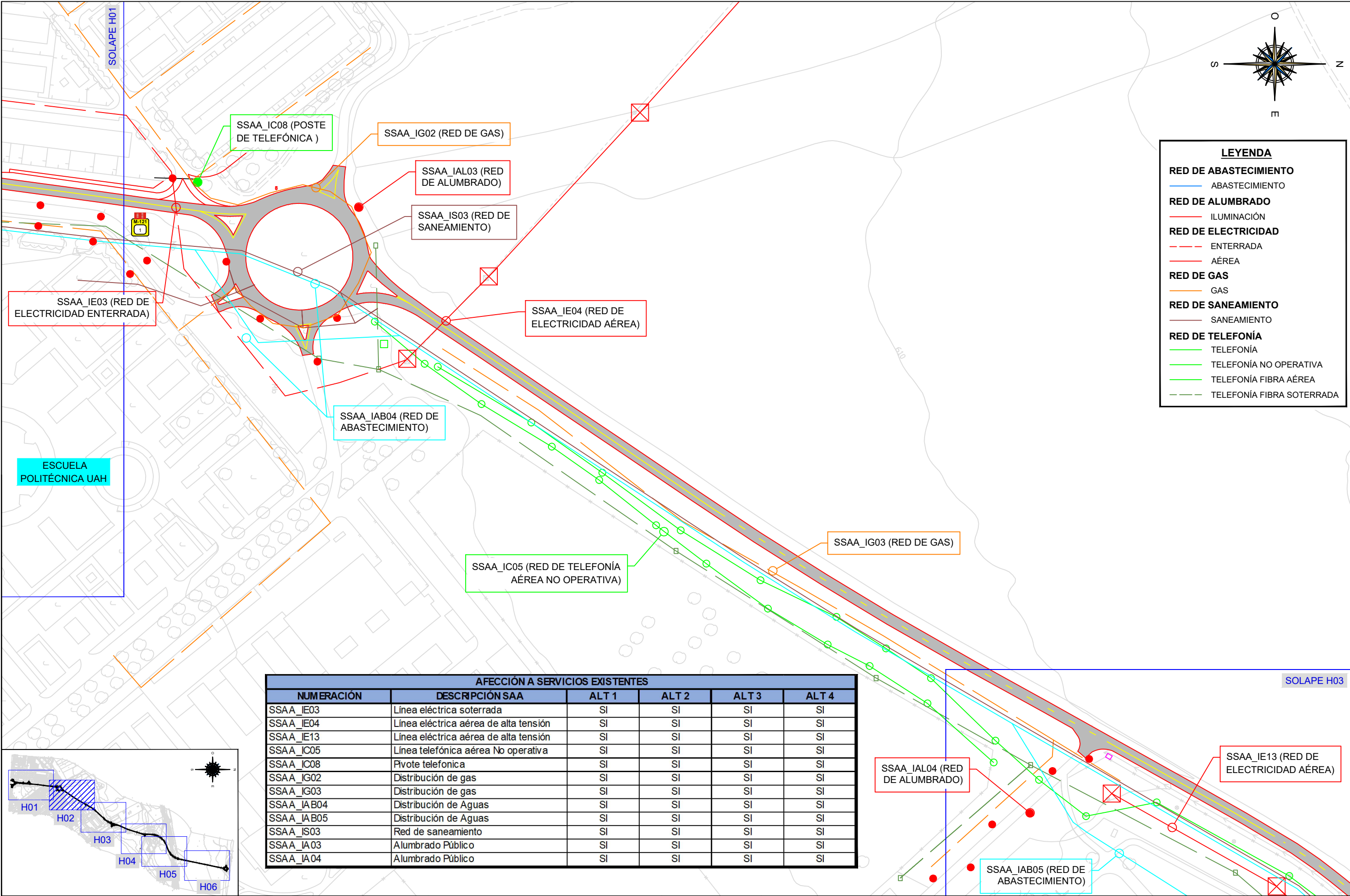


LEYENDA DRENAJE	
	ODT (OBRAS DE DRENAJE TRANSVERSAL)
	CUNETA LATERAL
	CUNETA PIE DE TERRAPLÉN
	CUNETA INTERIOR GLORIETA
	COLECTOR
	PASACUNETAS Ø600 mm
	BAJANTES
	CAZ
	ARQUETA
	POZO
	BORDILLO

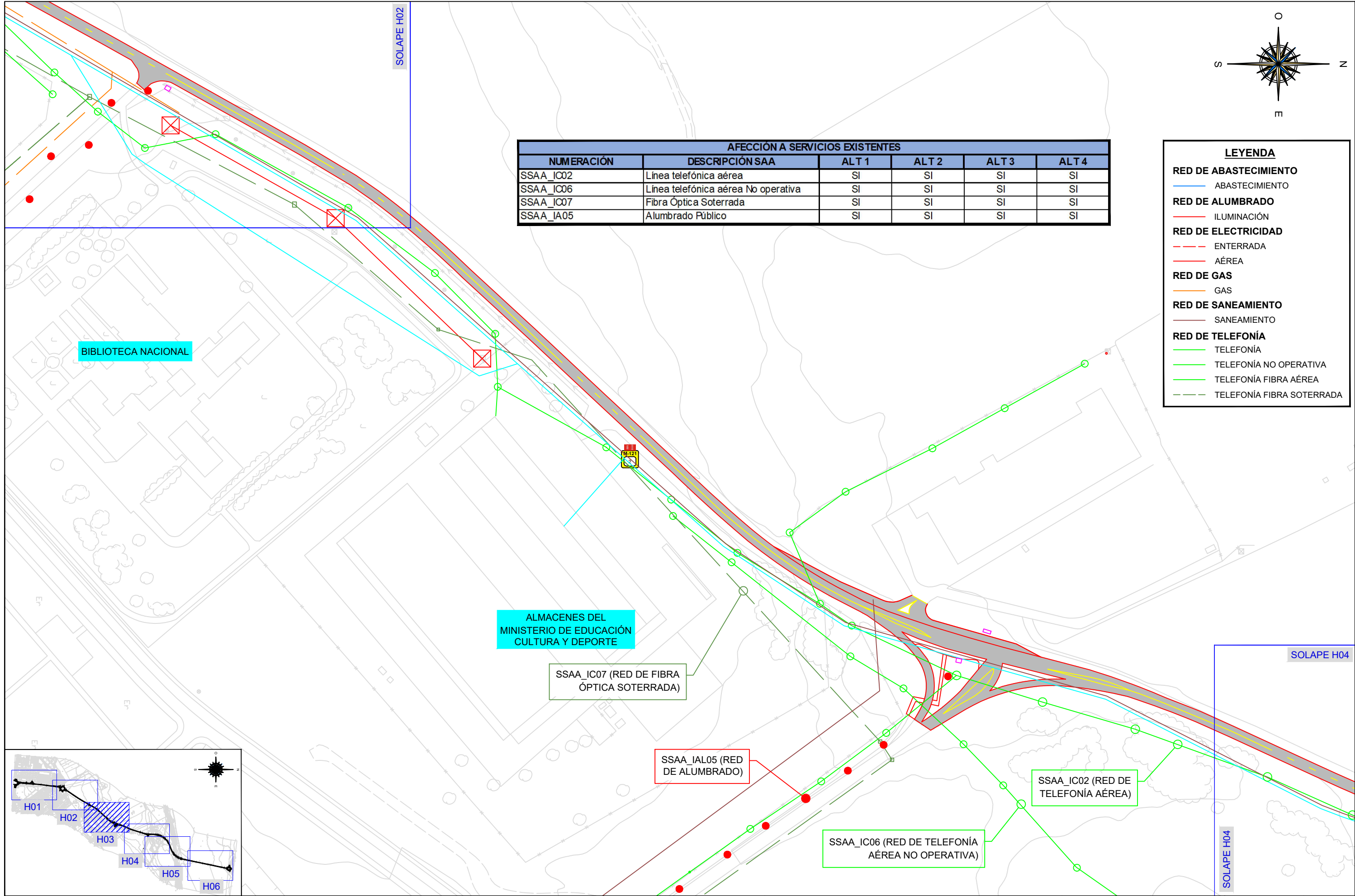
ORGANISMO 	CONSULTOR 	AUTOR DEL ESTUDIO 	ESCALAS 0 5 10 15 20 1: 2000	TITULO DE PROYECTO NUEVO ESTUDIO INFORMATIVO DE LA "DUPLICACIÓN DE CALZADA DE LA CARRETERA M-121. TRAMO A-2 (ALCALÁ DE HENARES) - MECO"	FECHA JUNIO 2023	DESIGNACIÓN DRENAJE ALTERNATIVA 4	Nº PLANO 12-09
					FICHERO 12-09.dwg		





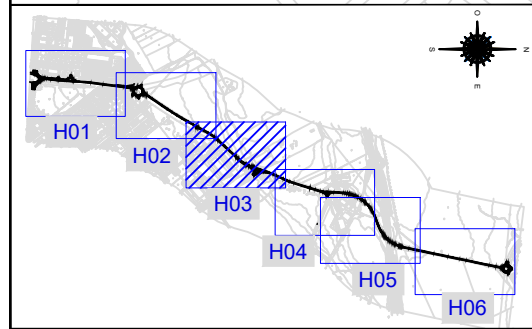


AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE03	Línea eléctrica soterrada	SI	SI	SI	SI
SSAA_IE04	Línea eléctrica aérea de alta tensión	SI	SI	SI	SI
SSAA_IE13	Línea eléctrica aérea de alta tensión	SI	SI	SI	SI
SSAA_IC05	Línea telefónica aérea No operativa	SI	SI	SI	SI
SSAA_IC08	Pivote telefonica	SI	SI	SI	SI
SSAA_IG02	Distribución de gas	SI	SI	SI	SI
SSAA_IG03	Distribución de gas	SI	SI	SI	SI
SSAA_IAB04	Distribución de Aguas	SI	SI	SI	SI
SSAA_IAB05	Distribución de Aguas	SI	SI	SI	SI
SSAA_IS03	Red de saneamiento	SI	SI	SI	SI
SSAA_IJ03	Alumbrado Público	SI	SI	SI	SI
SSAA_IJ04	Alumbrado Público	SI	SI	SI	SI

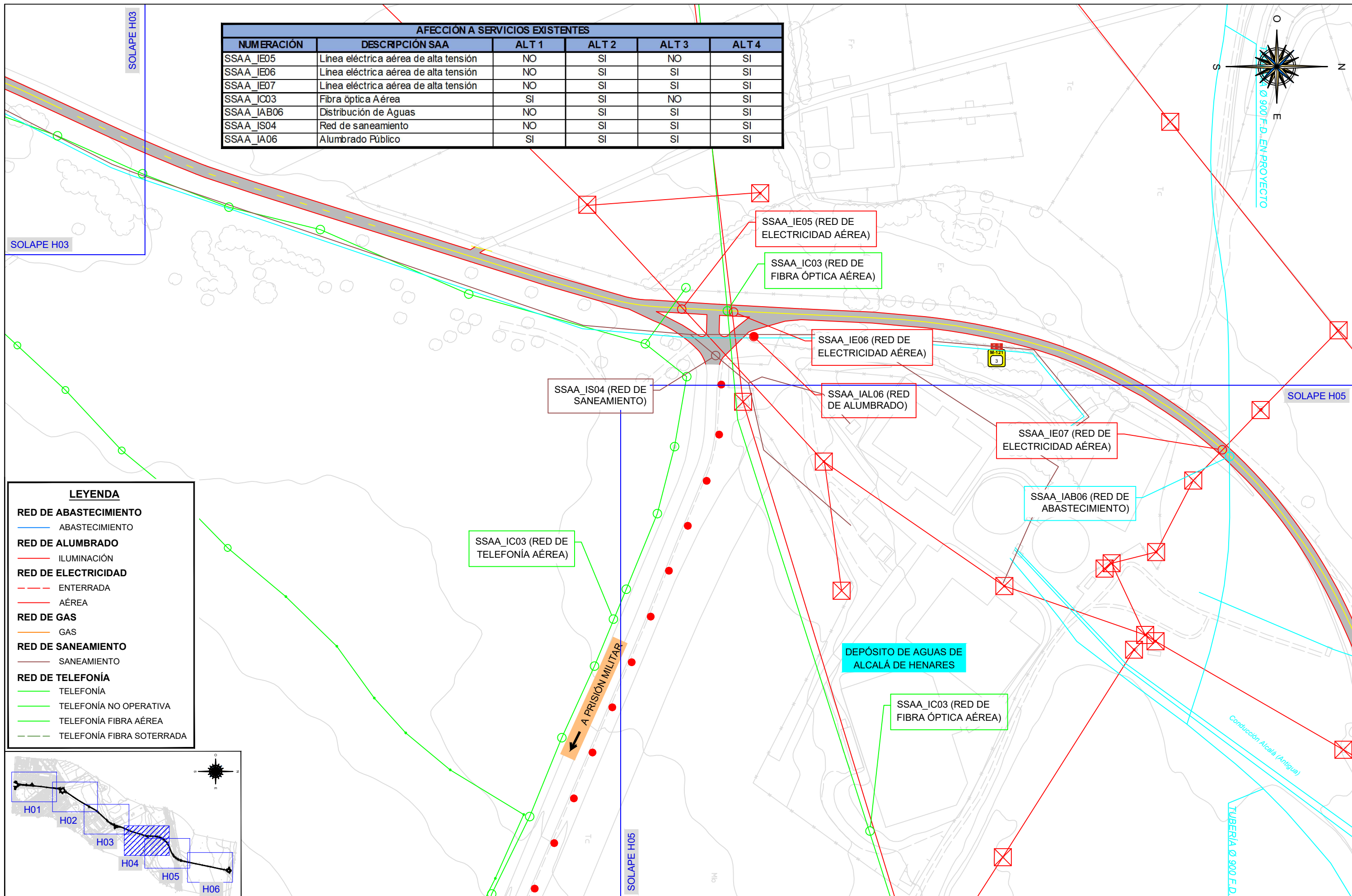


AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IC02	Línea telefónica aérea	SI	SI	SI	SI
SSAA_IC06	Línea telefónica aérea No operativa	SI	SI	SI	SI
SSAA_IC07	Fibra Óptica Soterrada	SI	SI	SI	SI
SSAA_IA05	Alumbrado Público	SI	SI	SI	SI

LEYENDA	
<b>RED DE ABASTECIMIENTO</b>	
—	ABASTECIMIENTO
<b>RED DE ALUMBRADO</b>	
—	ILUMINACIÓN
<b>RED DE ELECTRICIDAD</b>	
---	ENTERRADA
---	AÉREA
<b>RED DE GAS</b>	
---	GAS
<b>RED DE SANEAMIENTO</b>	
---	SANEAMIENTO
<b>RED DE TELEFONÍA</b>	
---	TELEFONÍA
---	TELEFONÍA NO OPERATIVA
---	TELEFONÍA FIBRA AÉREA
---	TELEFONÍA FIBRA SOTERRADA







AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE05	Línea eléctrica aérea de alta tensión	NO	SI	NO	SI
SSAA_IE06	Línea eléctrica aérea de alta tensión	NO	SI	SI	SI
SSAA_IE07	Línea eléctrica aérea de alta tensión	NO	SI	SI	SI
SSAA_IC03	Fibra óptica Aérea	SI	SI	NO	SI
SSAA_IAB06	Distribución de Aguas	NO	SI	SI	SI
SSAA_IS04	Red de saneamiento	NO	SI	SI	SI
SSAA_IA06	Alumbrado Público	SI	SI	SI	SI

**LEYENDA**

RED DE ABASTECIMIENTO

ABASTECIMIENTO

RED DE ALUMBRADO

ILUMINACIÓN

RED DE ELECTRICIDAD

ENTERRADA

AÉREA

RED DE GAS

GAS

RED DE SANEAMIENTO

SANEAMIENTO

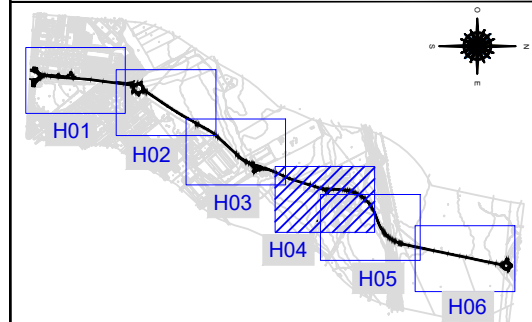
RED DE TELEFONÍA

TELEFONÍA

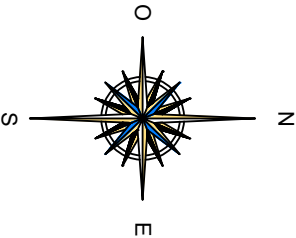
TELEFONÍA NO OPERATIVA

TELEFONÍA FIBRA AÉREA

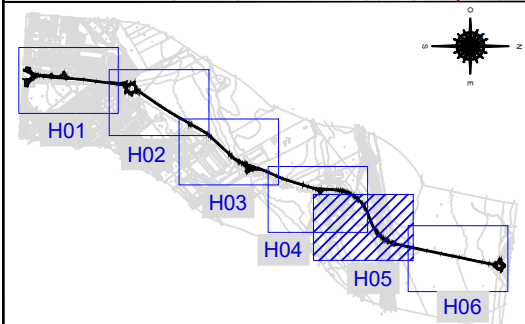
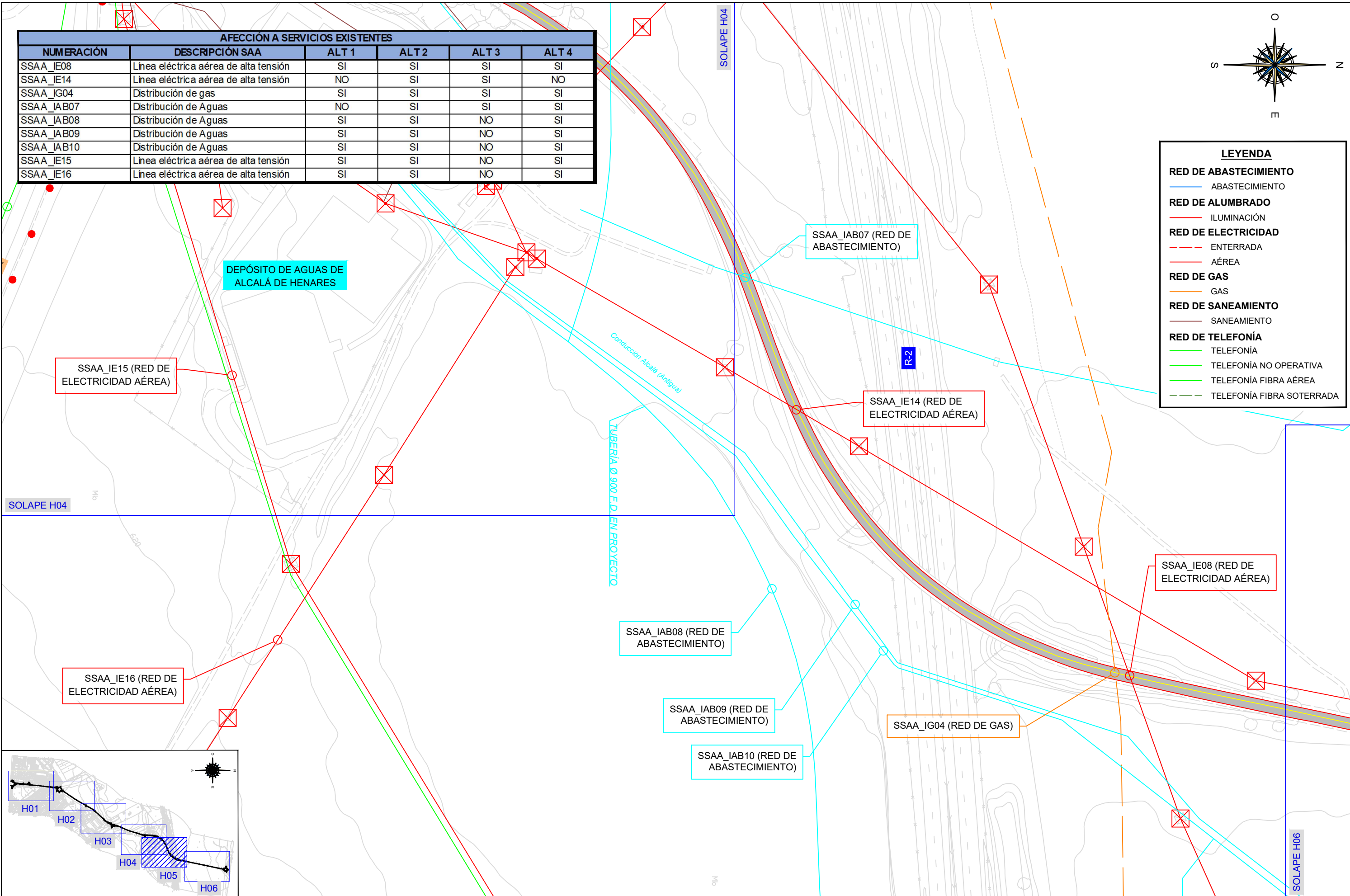
TELEFONÍA FIBRA SOTERRADA



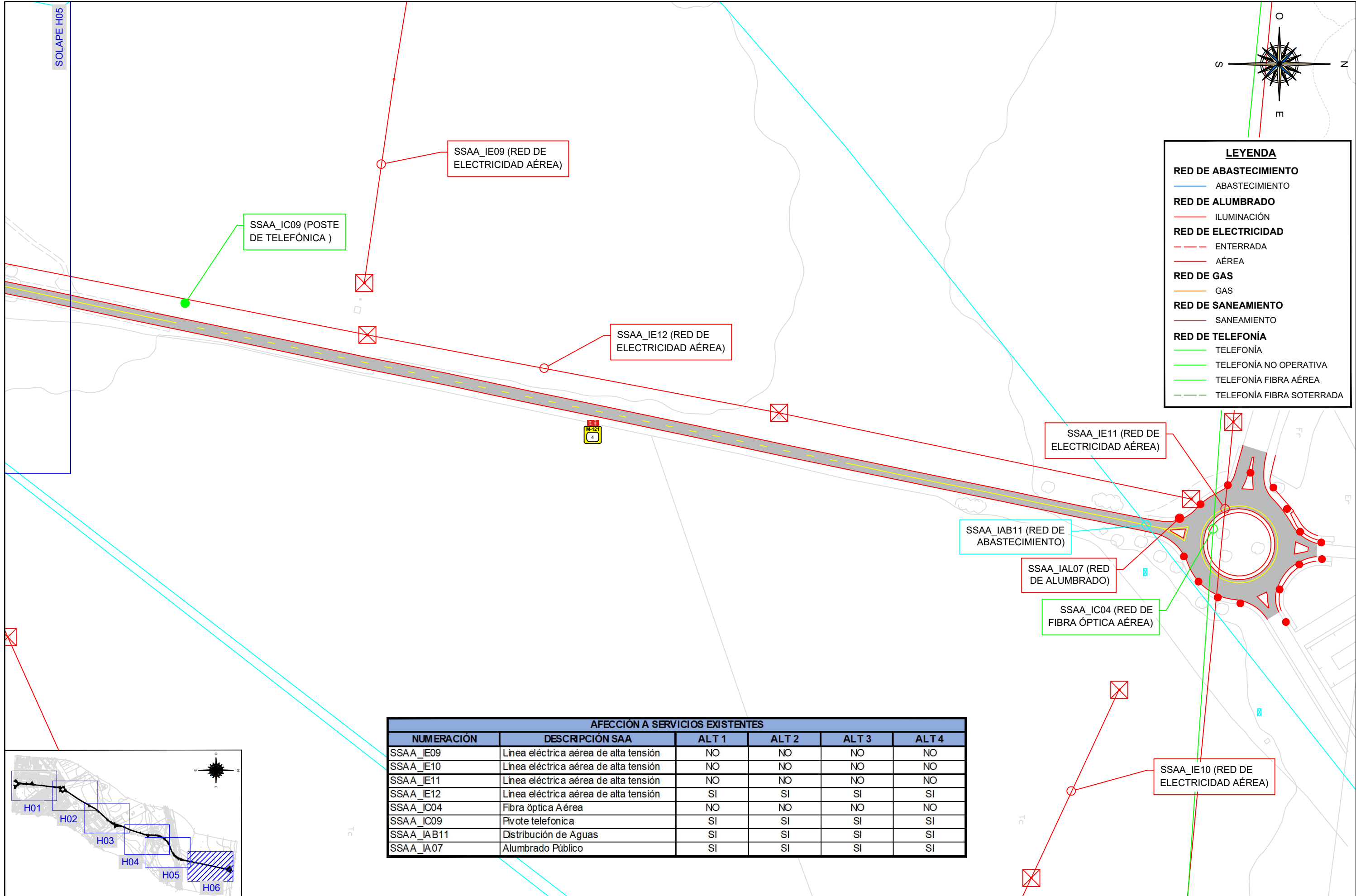
AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE08	Línea eléctrica aérea de alta tensión	SI	SI	SI	SI
SSAA_IE14	Línea eléctrica aérea de alta tensión	NO	SI	SI	NO
SSAA_IG04	Distribución de gas	SI	SI	SI	SI
SSAA_IAB07	Distribución de Aguas	NO	SI	SI	SI
SSAA_IAB08	Distribución de Aguas	SI	SI	NO	SI
SSAA_IAB09	Distribución de Aguas	SI	SI	NO	SI
SSAA_IAB10	Distribución de Aguas	SI	SI	NO	SI
SSAA_IE15	Línea eléctrica aérea de alta tensión	SI	SI	NO	SI
SSAA_IE16	Línea eléctrica aérea de alta tensión	SI	SI	NO	SI



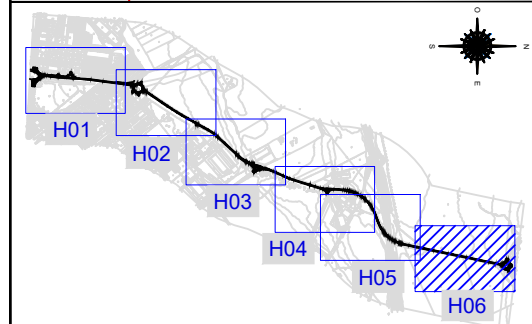
LEYENDA	
RED DE ABASTECIMIENTO	
—	ABASTECIMIENTO
RED DE ALUMBRADO	
—	ILUMINACIÓN
RED DE ELECTRICIDAD	
---	ENTERRADA
—	AÉREA
RED DE GAS	
—	GAS
RED DE SANEAMIENTO	
---	SANEAMIENTO
RED DE TELEFONÍA	
—	TELEFONÍA
---	TELEFONÍA NO OPERATIVA
—	TELEFONÍA FIBRA AÉREA
---	TELEFONÍA FIBRA SOTERRADA

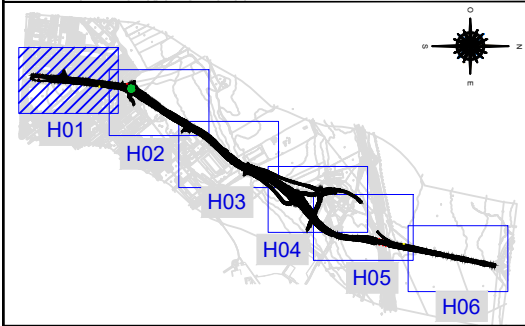
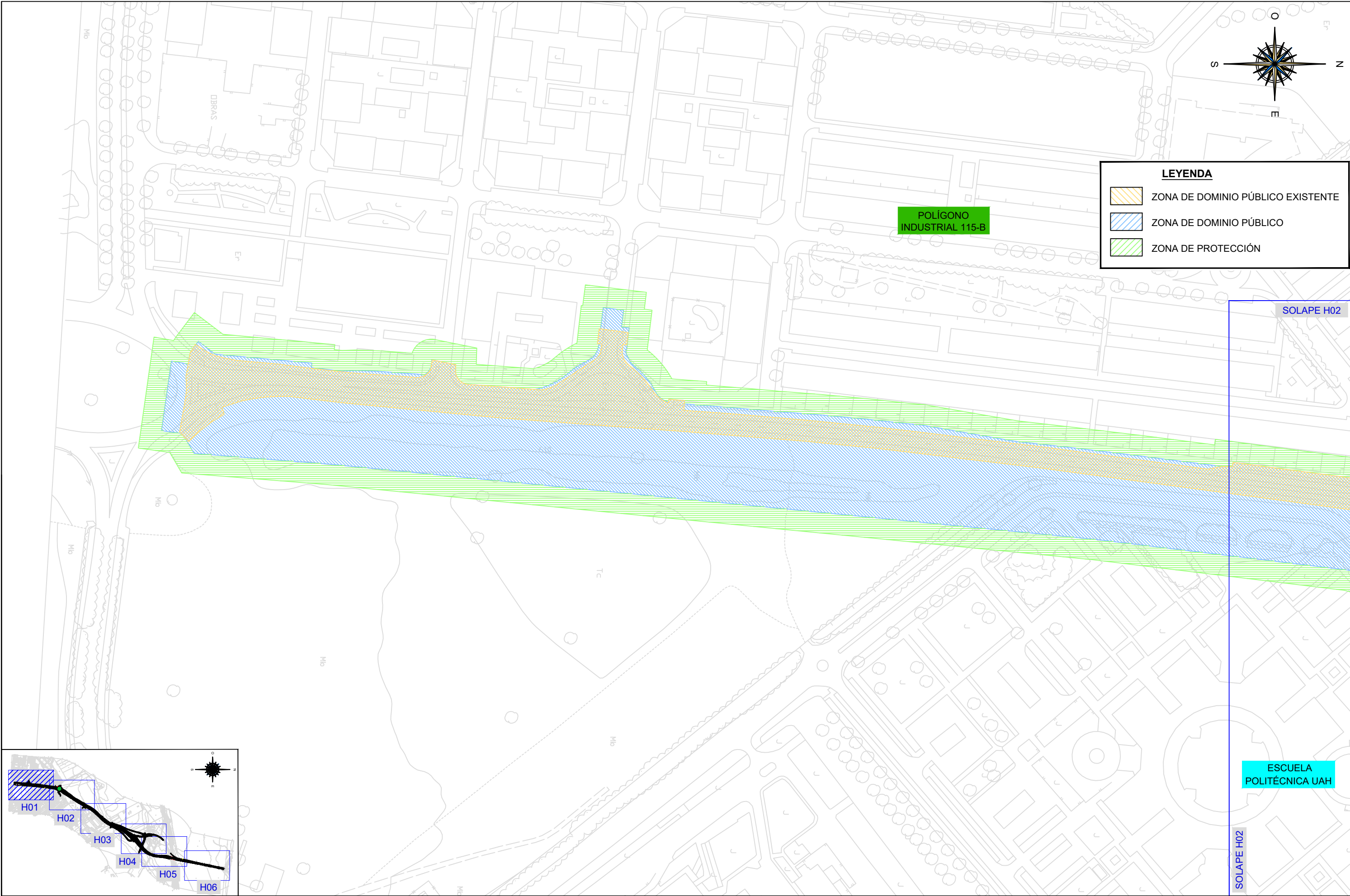




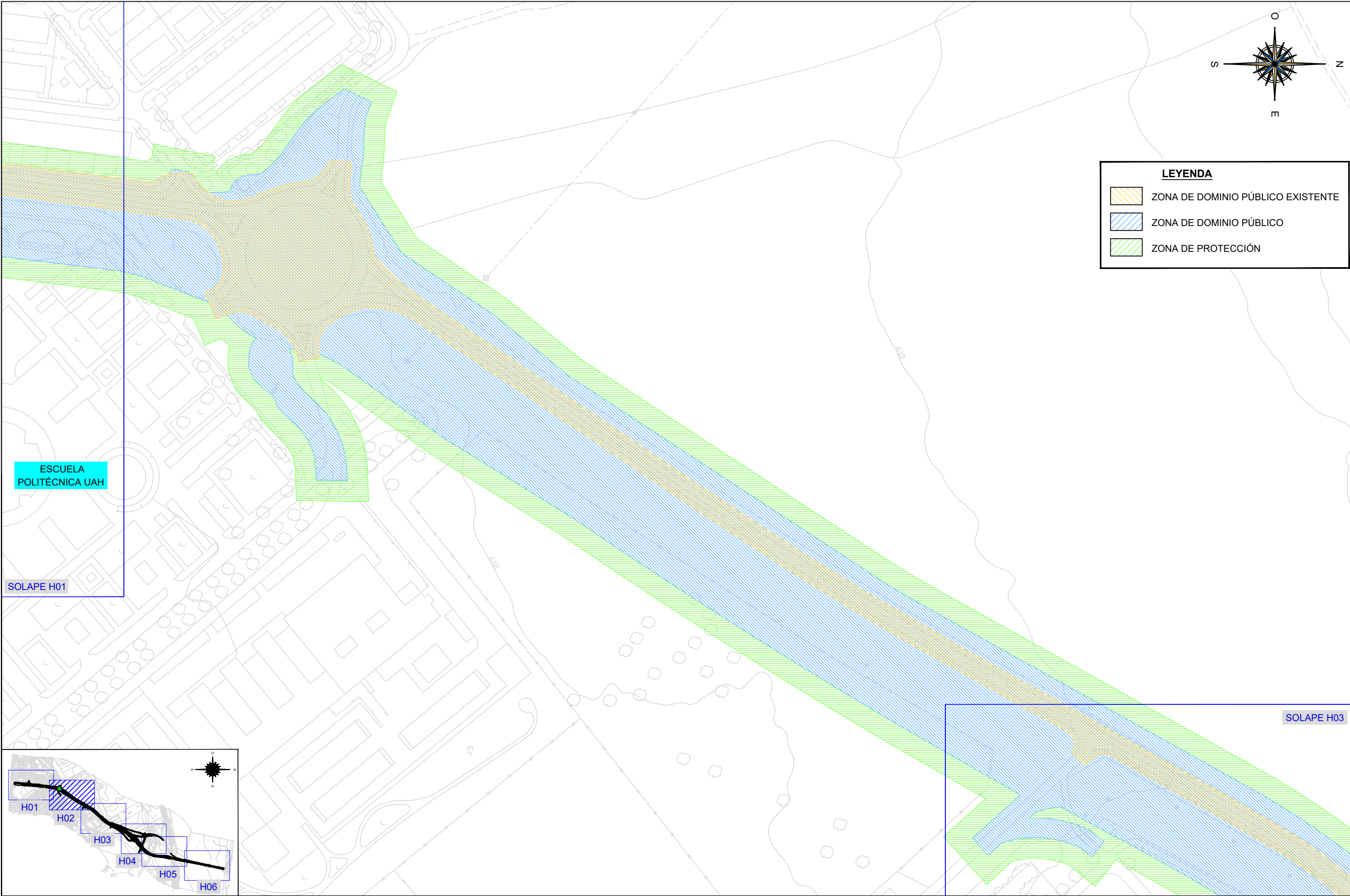


AFECCIÓN A SERVICIOS EXISTENTES					
NUMERACIÓN	DESCRIPCIÓN SAA	ALT 1	ALT 2	ALT 3	ALT 4
SSAA_IE09	Línea eléctrica aérea de alta tensión	NO	NO	NO	NO
SSAA_IE10	Línea eléctrica aérea de alta tensión	NO	NO	NO	NO
SSAA_IE11	Línea eléctrica aérea de alta tensión	NO	NO	NO	NO
SSAA_IE12	Línea eléctrica aérea de alta tensión	SI	SI	SI	SI
SSAA_IC04	Fibra óptica Aérea	NO	NO	NO	NO
SSAA_IC09	Pivote telefonica	SI	SI	SI	SI
SSAA_IAB11	Distribución de Aguas	SI	SI	SI	SI
SSAA_IA07	Alumbrado Público	SI	SI	SI	SI



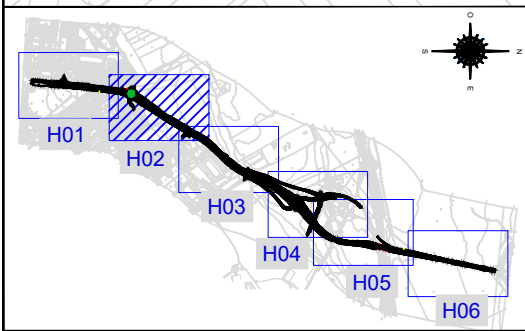


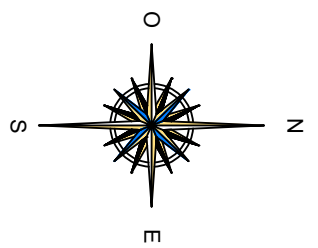
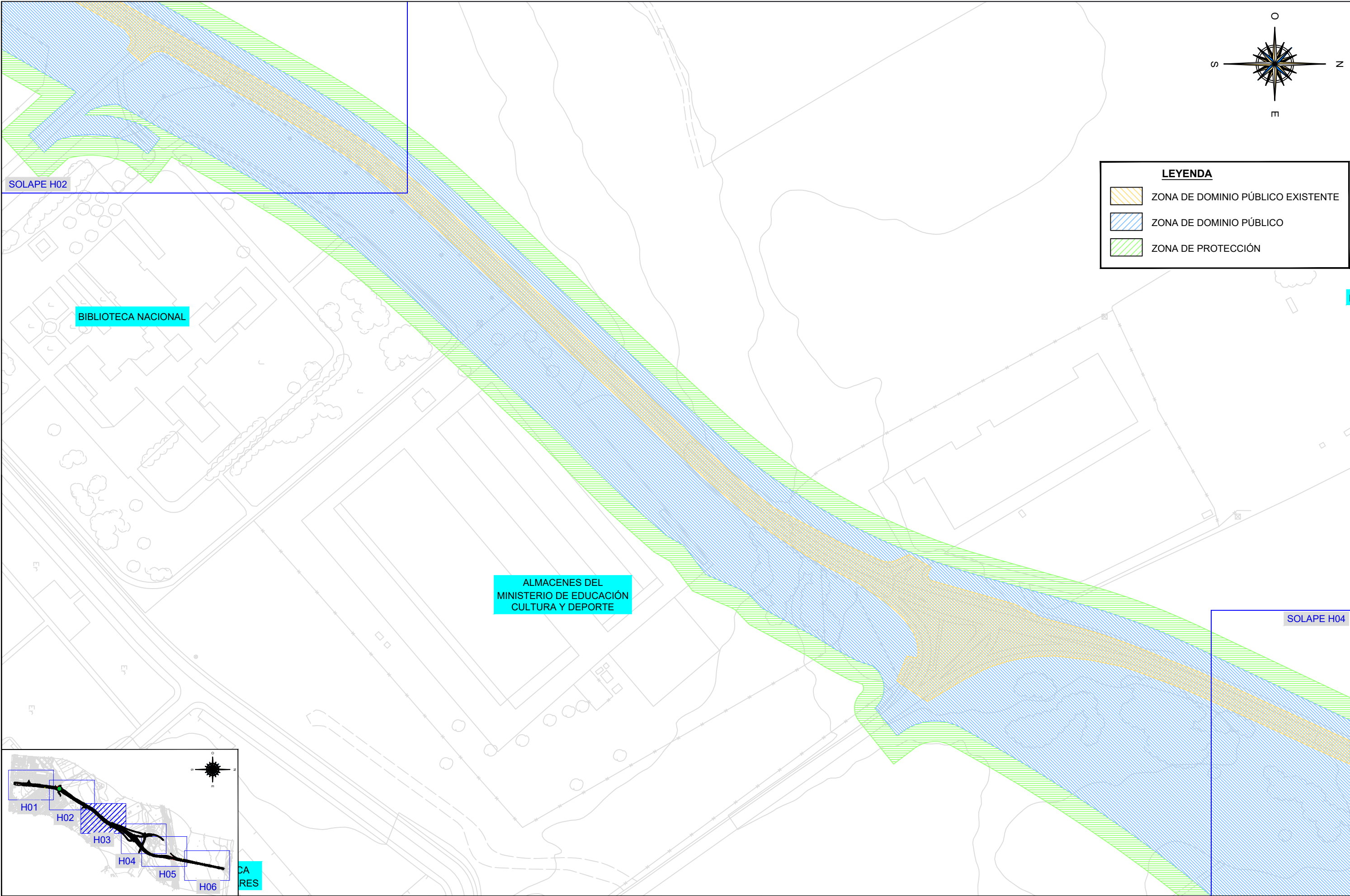




**LEYENDA**

- ZONA DE DOMINIO PÚBLICO EXISTENTE
- ZONA DE DOMINIO PÚBLICO
- ZONA DE PROTECCIÓN





**LEYENDA**

- ZONA DE DOMINIO PÚBLICO EXISTENTE
- ZONA DE DOMINIO PÚBLICO
- ZONA DE PROTECCIÓN

