



Gipuzkoako Ur Kontsorzioa
Gipuzkoako Urak

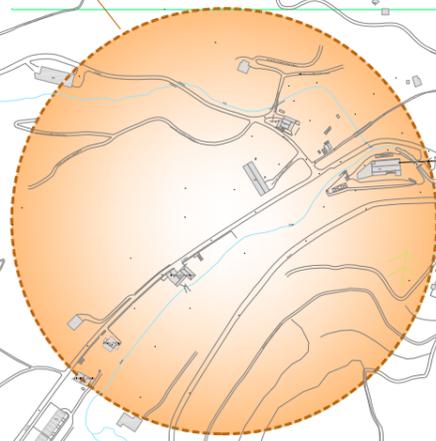
PLANOS

CONEXION SANEAMIENTO KUATRUENA

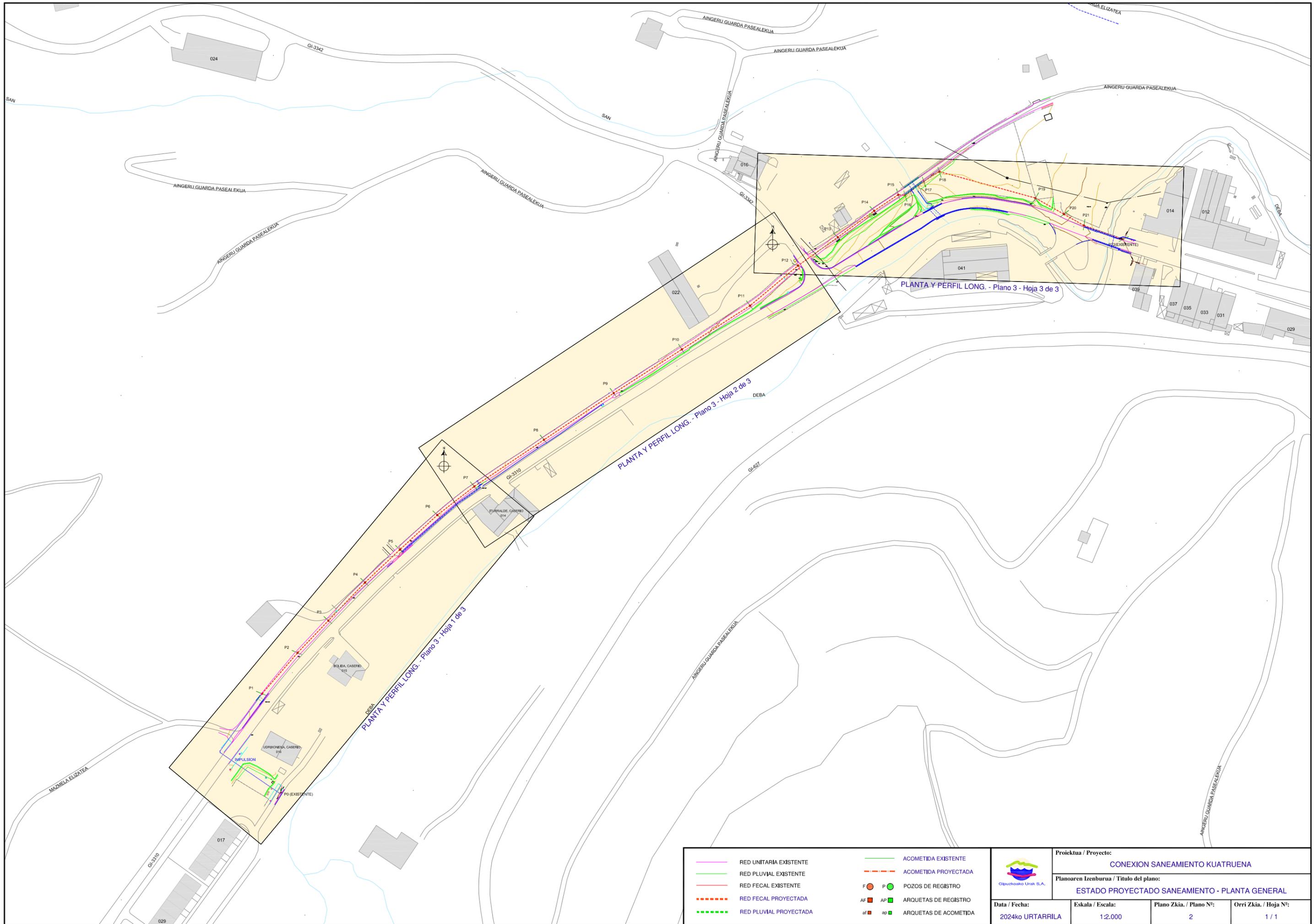
ESKORIATZA



SITUACION

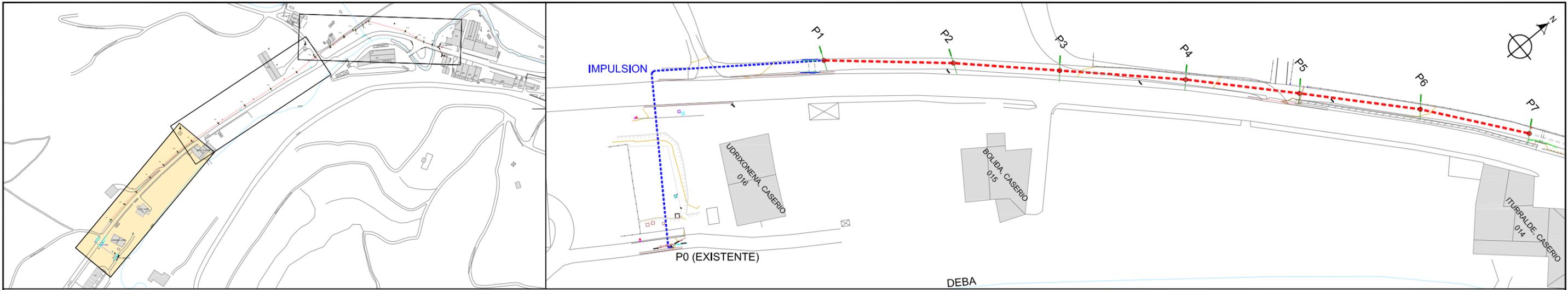


| | | | |
|---|--------------------------------|-------------------------|-----------------------|
|  | Proiektua / Proyecto: | | |
| | CONEXION SANEAMIENTO KUATRUENA | | |
| Planoaren Izenburua / Título del plano: | | SITUACION | |
| Data / Fecha: | Eskala / Escala: | Plano Zkia. / Plano Nº: | Orri Zkia. / Hoja Nº: |
| 2024ko URTARRILA | 1 : 10.000 | 1 | 1 / 1 |



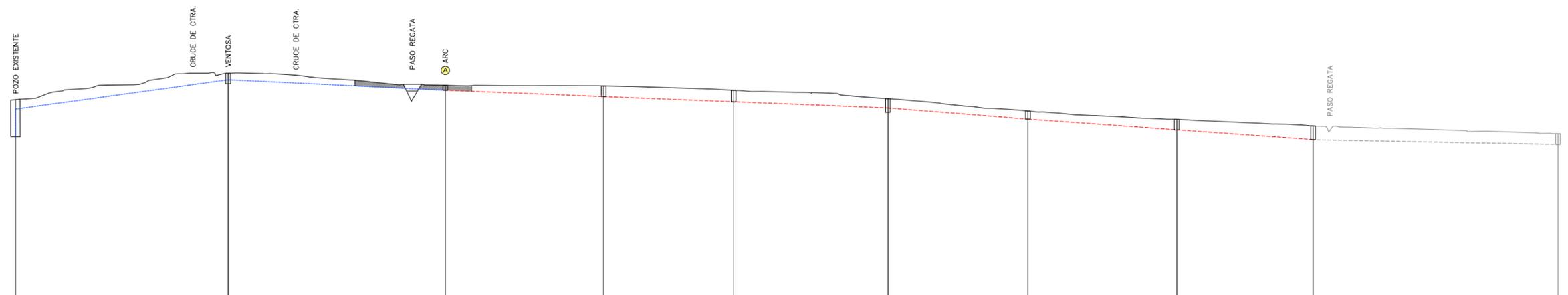
| | | | |
|--|------------------------|----|-----------------------|
| | RED UNITARIA EXISTENTE | | ACOMETIDA EXISTENTE |
| | RED PLUVIAL EXISTENTE | | ACOMETIDA PROYECTADA |
| | RED FECAL EXISTENTE | F | P |
| | RED FECAL PROYECTADA | AF | AP |
| | RED PLUVIAL PROYECTADA | af | ap |
| | | | ARQUETAS DE ACOMETIDA |

| | | | |
|-----------------------------------|--|------------------------------|--------------------------------|
| Gipuzkoako Urak S.A. | Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: ESTADO PROYECTADO SANEAMIENTO - PLANTA GENERAL | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: 1:2.000 | Plano Zkia. / Plano Nº: 2 | Orri Zkia. / Hoja Nº: 1 / 1 |



PERFIL LONGITUDINAL

Escala horizontal: 1/1.000
Escala vertical: 1/500

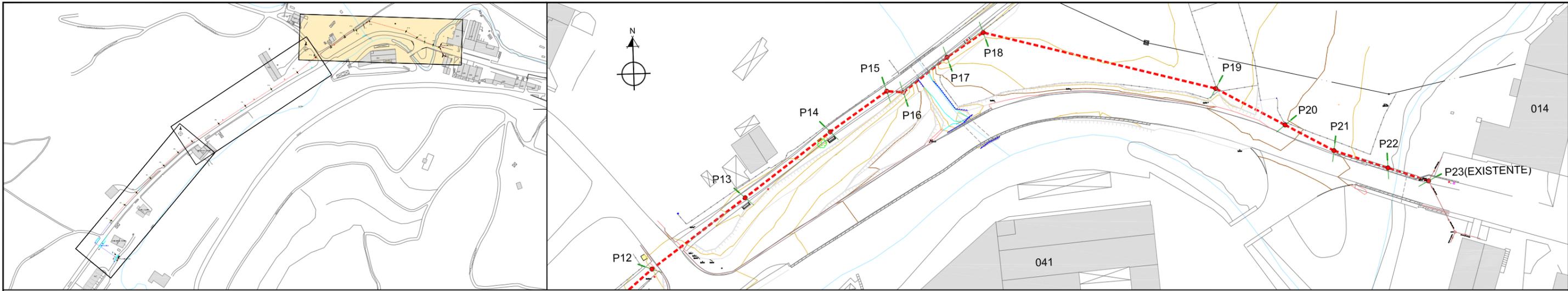


Plano de comparación 285

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------|---|--|---------|--------|---------|--|--------|--------|--|---------------|---------|--|-------|--------|--|--------|--------|--|--|--------|--|--|--------|--|--|--------|--|--|
| PENDIENTE | | 6,90 % | | | 2,41 % | | | 2,00 % | | | 4,00 % | | | 3,6 % | | | 1,00 % | | | | | | | | | | | | |
| SECCION TIPO | | tipo I | | tipo II | tipo I | tipo II | | tipo V | | | | tipo II | | | | | | | | | | | | | | | | | |
| TUBERIA | | IMPULSION Ø 110 mm. PE (1 + 1 de reserva) | | | | | | | | | Ø 315 mm. PVC | | | | | | | | | | | | | | | | | | |
| COTA ROJA | | 1,00 | | 0,70 | | 0,52 | | | 1,12 | | | 1,21 | | | 0,98 | | | 1,12 | | | 1,45 | | | 1,14 | | | | | |
| ORDENADAS | TERRENO | 306,06 | | 308,88 | | 307,59 | | | 307,52 | | | 306,18 | | | 304,87 | | | 303,99 | | | 303,29 | | | 302,46 | | | | | |
| | RASANTE | 305,06 | | 308,18 | | 307,07 | | | 306,24 | | | 304,73 | | | 303,99 | | | 303,20 | | | 301,84 | | | 301,04 | | | | | |
| DISTANCIAS | A ORIGEN | 0,00 | | 45,00 | | 90,98 | | | 124,49 | | | 152,01 | | | 184,67 | | | 214,31 | | | 245,82 | | | 274,68 | | | 326,52 | | |
| | PARCIALES | 0,00 | | 45,00 | | 45,98 | | | 33,51 | | | 27,52 | | | 32,66 | | | 29,64 | | | 31,51 | | | 28,88 | | | 55,84 | | |
| PERFIL | | P0 | | VENT | | P1 | | | P2 | | | P3 | | | P4 | | | P5 | | | P6 | | | P7 | | | P8 | | |

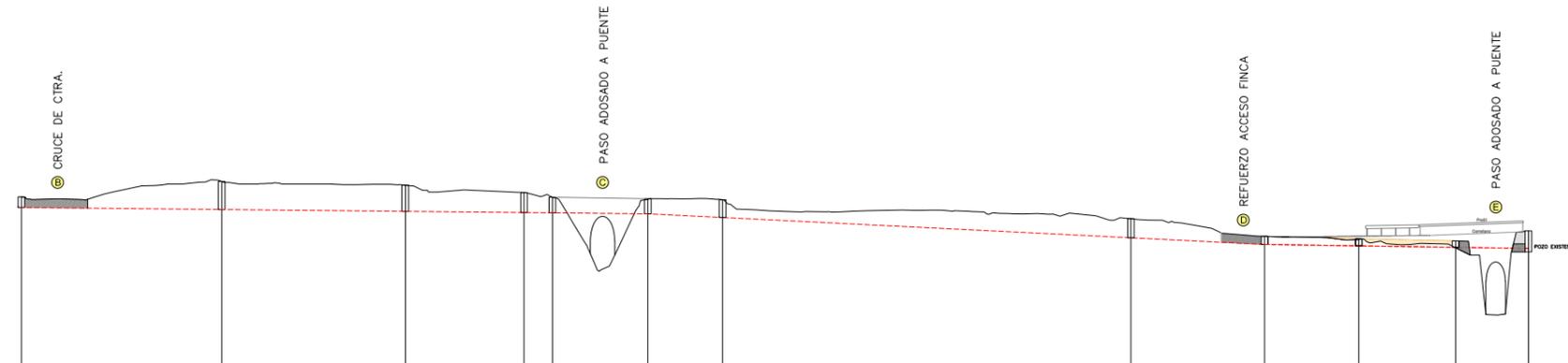
| | |
|------------------------|-----------------------|
| RED UNITARIA EXISTENTE | ACOMETIDA EXISTENTE |
| RED PLUVIAL EXISTENTE | ACOMETIDA PROYECTADA |
| RED FECAL EXISTENTE | POZOS DE REGISTRO |
| RED FECAL PROYECTADA | ARQUETAS DE REGISTRO |
| RED PLUVIAL PROYECTADA | ARQUETAS DE ACOMETIDA |

| | | | |
|-----------------------------------|--|------------------------------|--------------------------------|
| Gipuzkoako Urak S.A. | Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: ESTADO PROYECTADO - PLANTA Y PERFIL LONGITUDINAL | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: E.H.=1:1.000 E.V.=1:500 | Plano Zkia. / Plano Nº: 3 | Orri Zkia. / Hoja Nº: 1 / 3 |



PERFIL LONGITUDINAL

Escala horizontal: 1/1.000
Escala vertical: 1/500

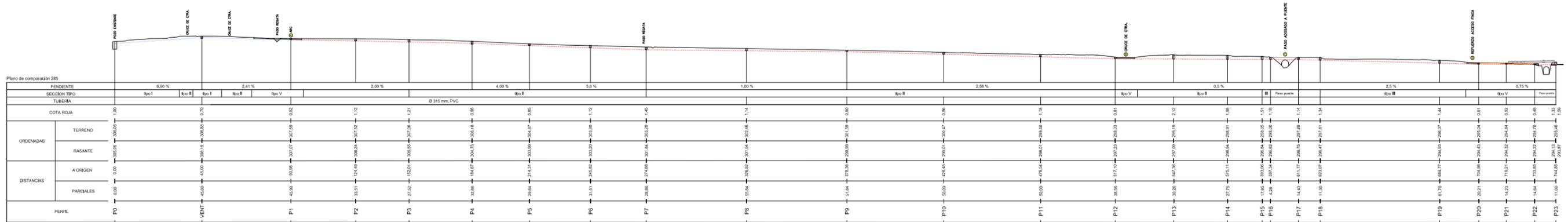
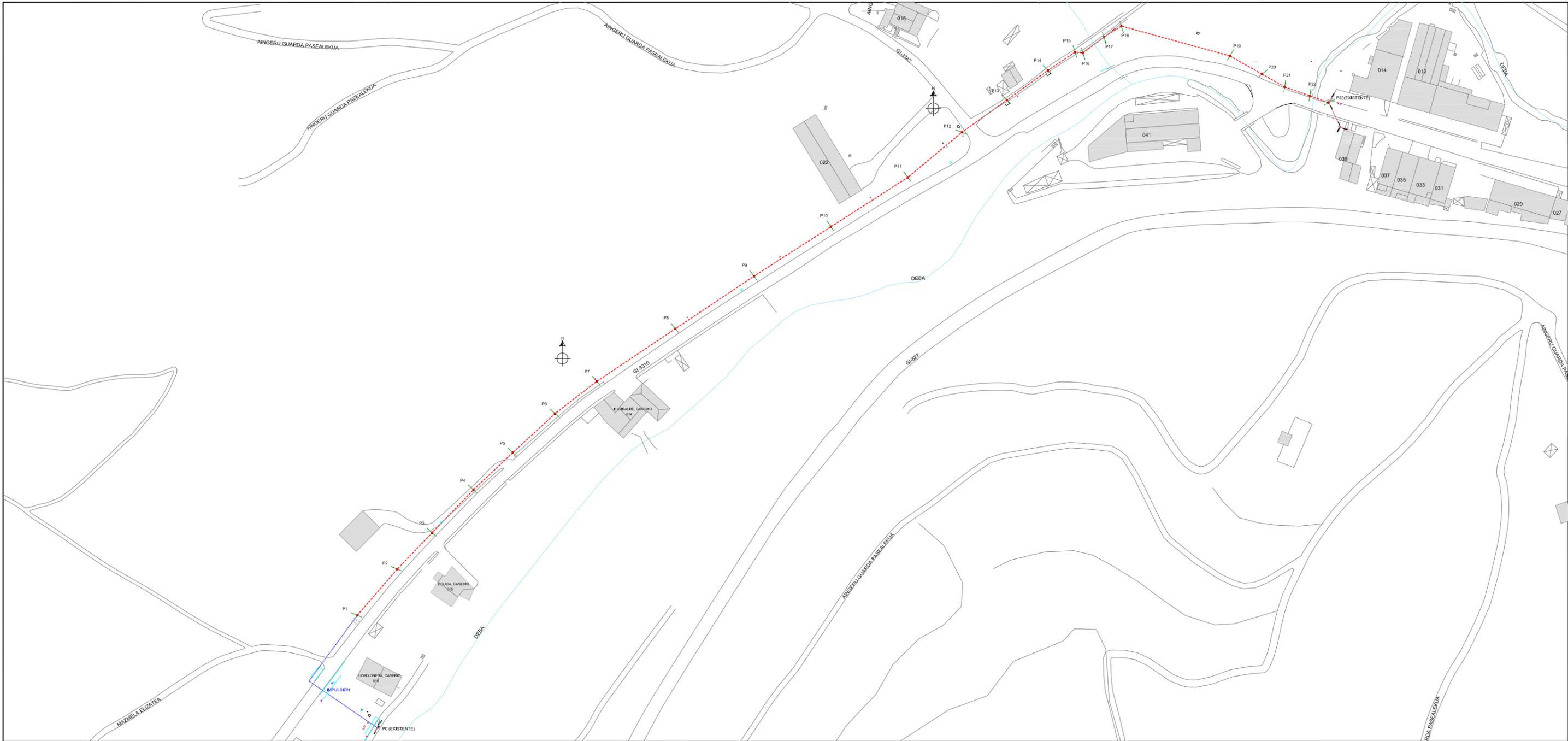


Plano de comparación 285

| PENDIENTE | | 0,5 % | | | | | | 2,5 % | | | 0,75 % | | | | | |
|--------------|-----------|--------|---------------|--------|--------|-------------|---------------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
| SECCION TIPO | | tipo V | tipo II | | | III | tipo III | | | tipo V | Paso puente | | | | | |
| TUBERIA | | | Ø 315 mm. PVC | | | Ø 300 Inox. | Ø 315 mm. PVC | | | | Ø 300 Inox. | | | | | |
| COTA ROJA | | 0,81 | | 2,12 | 1,98 | 1,51 | 1,18 | 1,14 | 1,34 | | 1,44 | 0,61 | 0,52 | 0,48 | 1,33 | 1,59 |
| ORDENADAS | TERRENO | 298,03 | | 299,19 | 298,91 | 298,35 | 298,00 | 297,89 | 297,81 | | 296,37 | 295,04 | 294,84 | 294,70 | 294,46 | 295,46 |
| | RASANTE | 297,23 | | 297,09 | 296,94 | 296,84 | 296,82 | 296,75 | 296,47 | | 294,93 | 294,43 | 294,32 | 294,22 | 294,13 | 293,87 |
| DISTANCIAS | A ORIGEN | 517,10 | | 547,36 | 575,11 | 593,06 | 597,34 | 611,77 | 623,07 | | 684,77 | 704,98 | 719,21 | 733,85 | 744,85 | |
| | PARCIALES | 38,56 | | 30,26 | 27,75 | 17,95 | 4,28 | 14,43 | 11,30 | | 61,70 | 20,21 | 14,23 | 14,64 | 11,00 | |
| PERFIL | | P12 | | P13 | P14 | P15 | P16 | P17 | P18 | | P19 | P20 | P21 | P22 | P23 | |

| | |
|------------------------|-----------------------|
| RED UNITARIA EXISTENTE | ACOMETIDA EXISTENTE |
| RED PLUVIAL EXISTENTE | ACOMETIDA PROYECTADA |
| RED FECAL EXISTENTE | POZOS DE REGISTRO |
| RED FECAL PROYECTADA | ARQUETAS DE REGISTRO |
| RED PLUVIAL PROYECTADA | ARQUETAS DE ACOMETIDA |

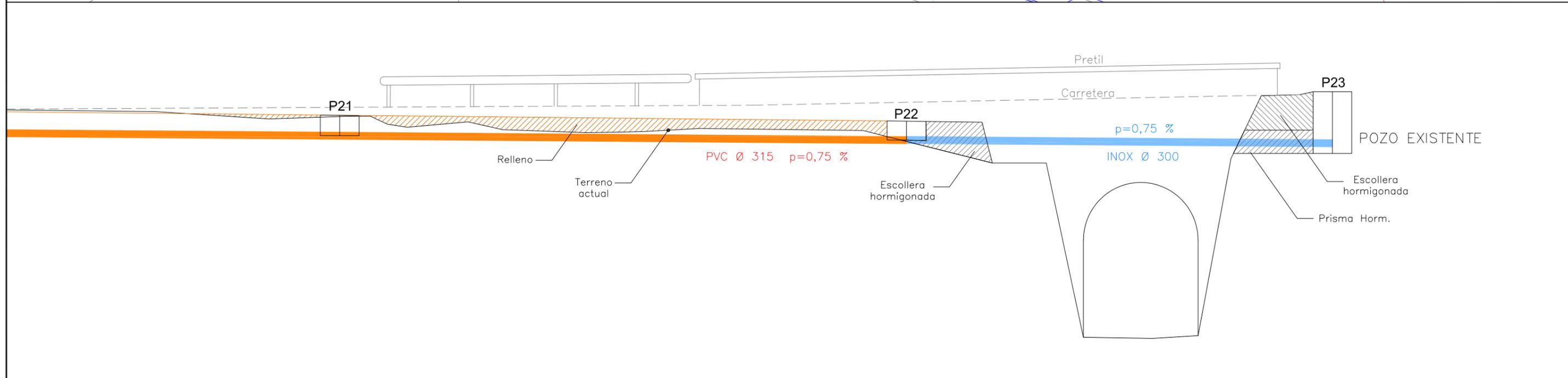
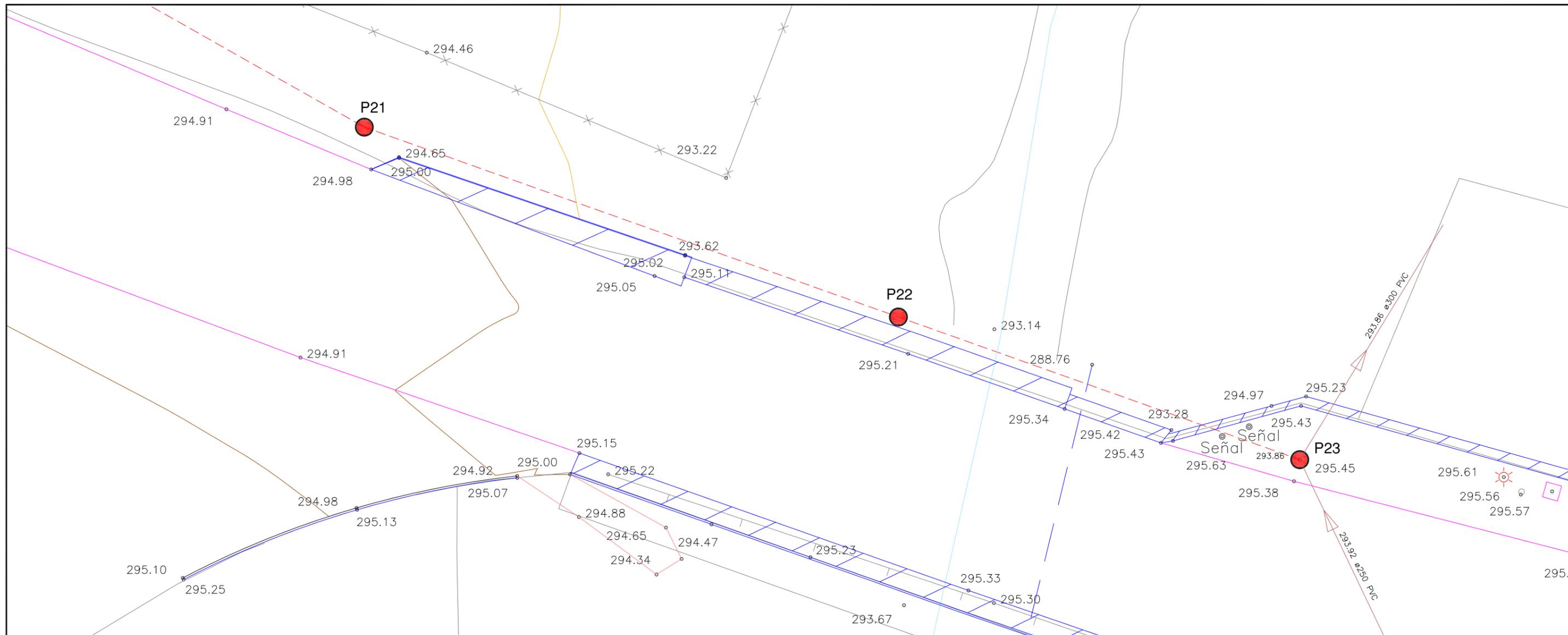
| | | | |
|---|---|-------------------------------------|---------------------------------------|
| | | | |
| Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | | |
| Planoaren Izenburua / Título del plano: ESTADO PROYECTADO - PLANTA Y PERFIL LONGITUDINAL | | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: E.H.=1:1.000 E.V.=1:500 | Plano Zkia. / Plano Nº: 3 | Orri Zkia. / Hoja Nº: 3 / 3 |



| PENDIENTE | | 6.00 % | | 2.41 % | | 2.00 % | | 4.00 % | | 3.6 % | | 1.00 % | | 2.58 % | | 0.5 % | | 2.5 % | | 0.75 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------|--------|-------|---------|-------|--------|-------|---------|-------|---------|-------|--------|-------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| SECCION TIPO | | Tipo I | | Tipo II | | Tipo V | | Tipo II | | Tipo II | | Tipo V | | Tipo II | | Tipo III | | Tipo V | | Tipo V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TUBERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COTA ROJA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ORDENADAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DISTANCIAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PERFIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P0 | VENT | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 | P13 | P14 | P15 | P16 | P17 | P18 | P19 | P20 | P21 | P22 | P23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | 45.98 | 50.96 | 55.94 | 60.92 | 65.90 | 70.88 | 75.86 | 80.84 | 85.82 | 90.80 | 95.78 | 100.76 | 105.74 | 110.72 | 115.70 | 120.68 | 125.66 | 130.64 | 135.62 | 140.60 | 145.58 | 150.56 | 155.54 | 160.52 | 165.50 | 170.48 | 175.46 | 180.44 | 185.42 | 190.40 | 195.38 | 200.36 | 205.34 | 210.32 | 215.30 | 220.28 | 225.26 | 230.24 | 235.22 | 240.20 | 245.18 | 250.16 | 255.14 | 260.12 | 265.10 | 270.08 | 275.06 | 280.04 | 285.02 | 290.00 | 294.98 | 299.96 | 304.94 | 309.92 | 314.90 | 319.88 | 324.86 | 329.84 | 334.82 | 339.80 | 344.78 | 349.76 | 354.74 | 359.72 | 364.70 | 369.68 | 374.66 | 379.64 | 384.62 | 389.60 | 394.58 | 399.56 | 404.54 | 409.52 | 414.50 | 419.48 | 424.46 | 429.44 | 434.42 | 439.40 | 444.38 | 449.36 | 454.34 | 459.32 | 464.30 | 469.28 | 474.26 | 479.24 | 484.22 | 489.20 | 494.18 | 499.16 | 504.14 | 509.12 | 514.10 | 519.08 | 524.06 | 529.04 | 534.02 | 539.00 | 543.98 | 548.96 | 553.94 | 558.92 | 563.90 | 568.88 | 573.86 | 578.84 | 583.82 | 588.80 | 593.78 | 598.76 | 603.74 | 608.72 | 613.70 | 618.68 | 623.66 | 628.64 | 633.62 | 638.60 | 643.58 | 648.56 | 653.54 | 658.52 | 663.50 | 668.48 | 673.46 | 678.44 | 683.42 | 688.40 | 693.38 | 698.36 | 703.34 | 708.32 | 713.30 | 718.28 | 723.26 | 728.24 | 733.22 | 738.20 | 743.18 | 748.16 | 753.14 | 758.12 | 763.10 | 768.08 | 773.06 | 778.04 | 783.02 | 788.00 | 792.98 | 797.96 | 802.94 | 807.92 | 812.90 | 817.88 | 822.86 | 827.84 | 832.82 | 837.80 | 842.78 | 847.76 | 852.74 | 857.72 | 862.70 | 867.68 | 872.66 | 877.64 | 882.62 | 887.60 | 892.58 | 897.56 | 902.54 | 907.52 | 912.50 | 917.48 | 922.46 | 927.44 | 932.42 | 937.40 | 942.38 | 947.36 | 952.34 | 957.32 | 962.30 | 967.28 | 972.26 | 977.24 | 982.22 | 987.20 | 992.18 | 997.16 | 1002.14 | 1007.12 | 1012.10 | 1017.08 | 1022.06 | 1027.04 | 1032.02 | 1037.00 | 1041.98 | 1046.96 | 1051.94 | 1056.92 | 1061.90 | 1066.88 | 1071.86 | 1076.84 | 1081.82 | 1086.80 | 1091.78 | 1096.76 | 1101.74 | 1106.72 | 1111.70 | 1116.68 | 1121.66 | 1126.64 | 1131.62 | 1136.60 | 1141.58 | 1146.56 | 1151.54 | 1156.52 | 1161.50 | 1166.48 | 1171.46 | 1176.44 | 1181.42 | 1186.40 | 1191.38 | 1196.36 | 1201.34 | 1206.32 | 1211.30 | 1216.28 | 1221.26 | 1226.24 | 1231.22 | 1236.20 | 1241.18 | 1246.16 | 1251.14 | 1256.12 | 1261.10 | 1266.08 | 1271.06 | 1276.04 | 1281.02 | 1286.00 | 1290.98 | 1295.96 | 1300.94 | 1305.92 | 1310.90 | 1315.88 | 1320.86 | 1325.84 | 1330.82 | 1335.80 | 1340.78 | 1345.76 | 1350.74 | 1355.72 | 1360.70 | 1365.68 | 1370.66 | 1375.64 | 1380.62 | 1385.60 | 1390.58 | 1395.56 | 1400.54 | 1405.52 | 1410.50 | 1415.48 | 1420.46 | 1425.44 | 1430.42 | 1435.40 | 1440.38 | 1445.36 | 1450.34 | 1455.32 | 1460.30 | 1465.28 | 1470.26 | 1475.24 | 1480.22 | 1485.20 | 1490.18 | 1495.16 | 1500.14 | 1505.12 | 1510.10 | 1515.08 | 1520.06 | 1525.04 | 1530.02 | 1535.00 | 1540.00 | 1545.00 | 1550.00 | 1555.00 | 1560.00 | 1565.00 | 1570.00 | 1575.00 | 1580.00 | 1585.00 | 1590.00 | 1595.00 | 1600.00 | 1605.00 | 1610.00 | 1615.00 | 1620.00 | 1625.00 | 1630.00 | 1635.00 | 1640.00 | 1645.00 | 1650.00 | 1655.00 | 1660.00 | 1665.00 | 1670.00 | 1675.00 | 1680.00 | 1685.00 | 1690.00 | 1695.00 | 1700.00 | 1705.00 | 1710.00 | 1715.00 | 1720.00 | 1725.00 | 1730.00 | 1735.00 | 1740.00 | 1745.00 | 1750.00 | 1755.00 | 1760.00 | 1765.00 | 1770.00 | 1775.00 | 1780.00 | 1785.00 | 1790.00 | 1795.00 | 1800.00 | 1805.00 | 1810.00 | 1815.00 | 1820.00 | 1825.00 | 1830.00 | 1835.00 | 1840.00 | 1845.00 | 1850.00 | 1855.00 | 1860.00 | 1865.00 | 1870.00 | 1875.00 | 1880.00 | 1885.00 | 1890.00 | 1895.00 | 1900.00 | 1905.00 | 1910.00 | 1915.00 | 1920.00 | 1925.00 | 1930.00 | 1935.00 | 1940.00 | 1945.00 | 1950.00 | 1955.00 | 1960.00 | 1965.00 | 1970.00 | 1975.00 | 1980.00 | 1985.00 | 1990.00 | 1995.00 | 2000.00 |

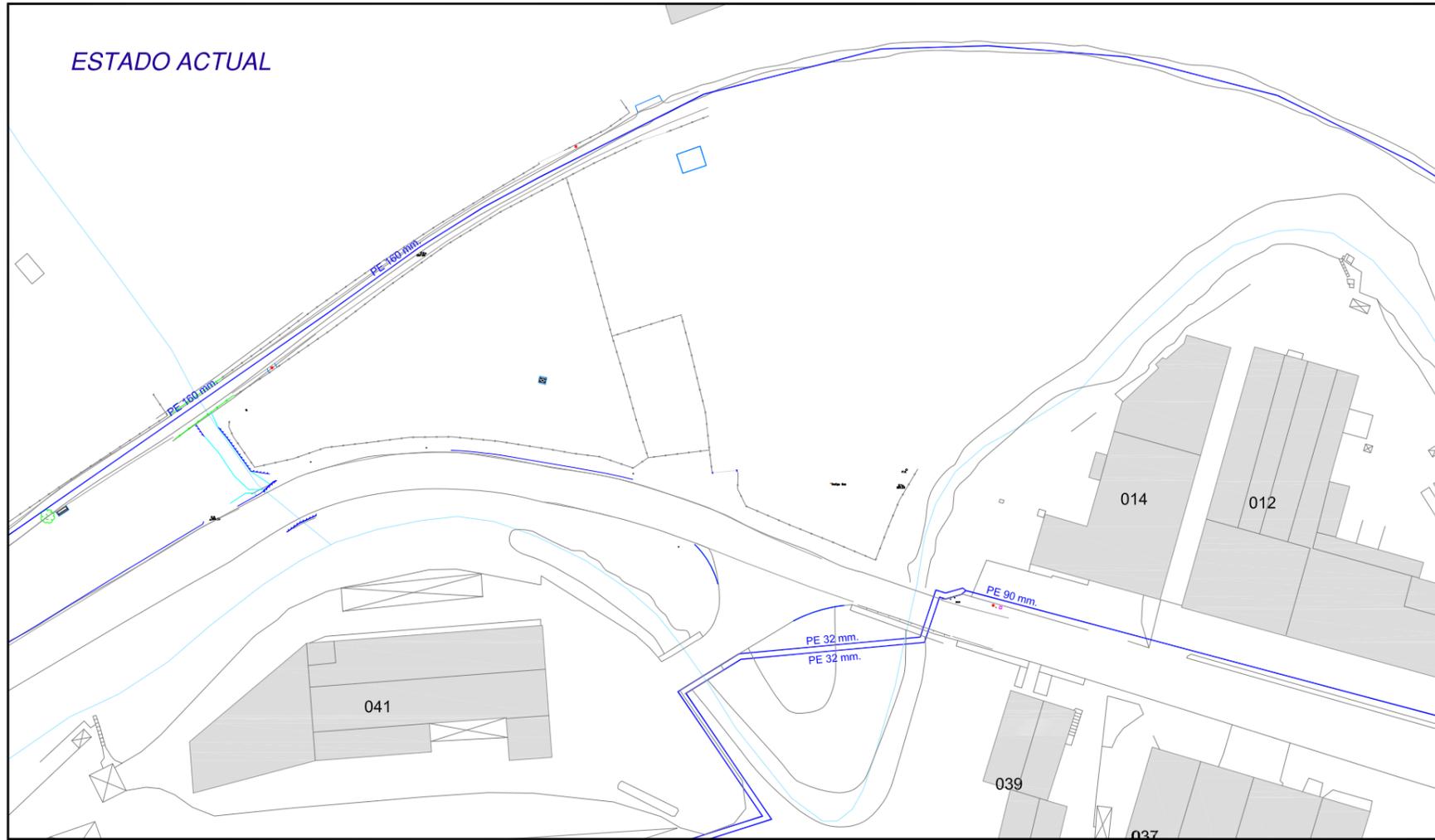
* Plano Original A2

| | | | |
|--|---|------------------------------------|---|
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| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: 1 / 1.500 Original tamaño A2 | Plano Zkia / Plano N°: 4 | Orri Zkia / Hoja N°: 1 / 1 |

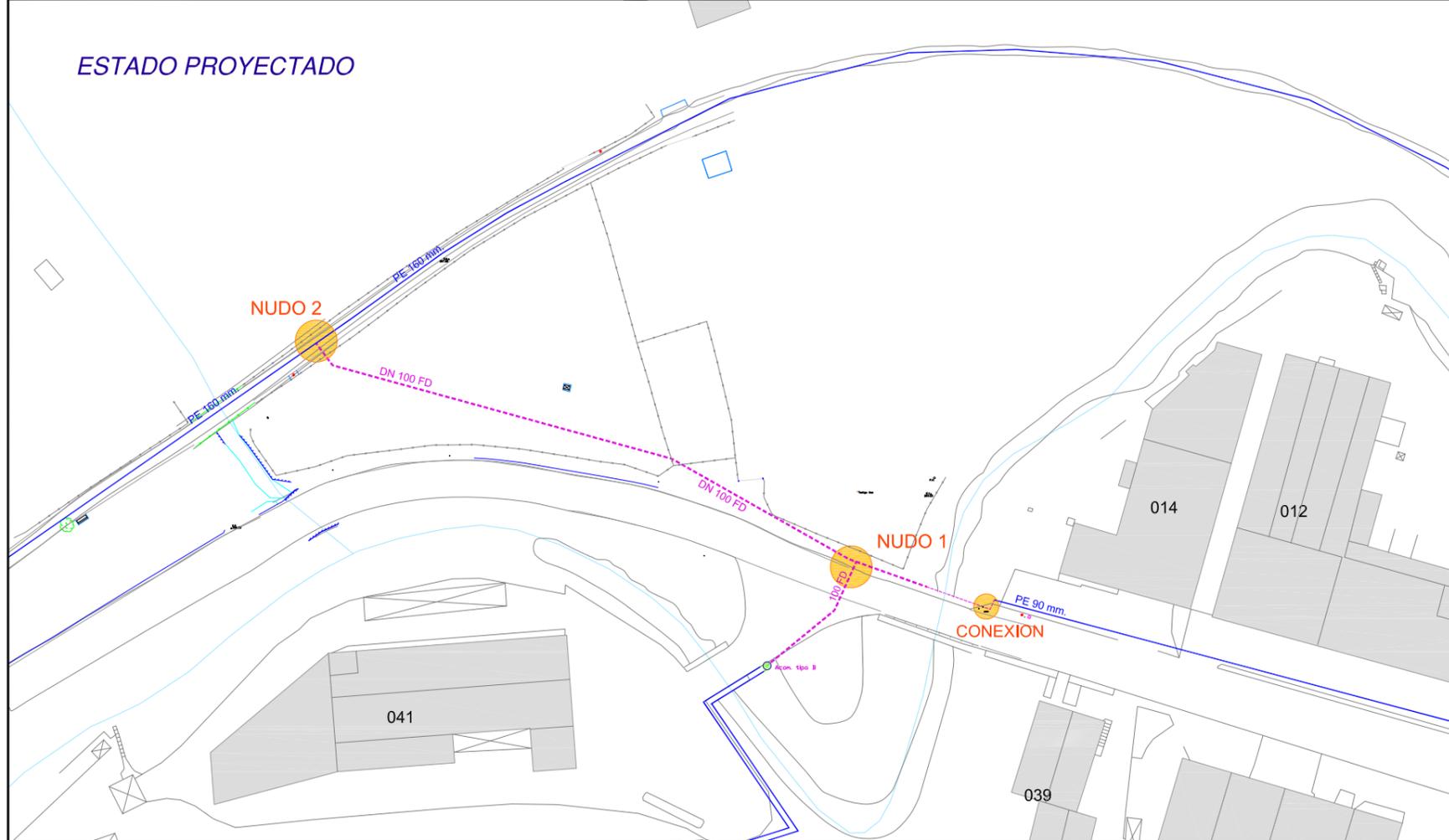


| | | |
|--|---|--|
| <ul style="list-style-type: none"> RED UNITARIA EXISTENTE RED PLUVIAL EXISTENTE RED FECAL EXISTENTE RED FECAL PROYECTADA RED PLUVIAL PROYECTADA | <ul style="list-style-type: none"> ACOMETIDA EXISTENTE ACOMETIDA PROYECTADA F ● P ● POZOS DE REGISTRO AF ■ AP ■ ARQUETAS DE REGISTRO af ■ ap ■ ARQUETAS DE ACOMETIDA | <p>Proiektua / Proyecto:</p> <p>CONEXION SANEAMIENTO KUATRUENA</p> <p>Planoaren Izenburua / Título del plano:</p> <p>DETALLE CRUCE P22</p> |
| <p>Data / Fecha:</p> <p>2024ko URTARRILA</p> | <p>Eskala / Escala:</p> <p>1/100</p> | <p>Plano Zkia. / Plano Nº:</p> <p>5</p> |
| | | <p>Orri Zkia. / Hoja Nº:</p> <p>1 / 1</p> |

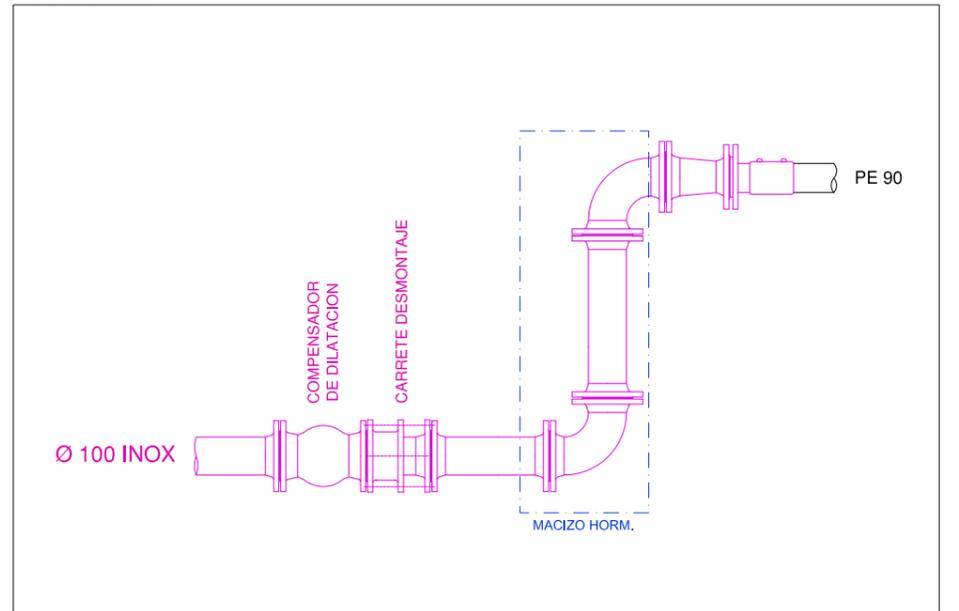
ESTADO ACTUAL



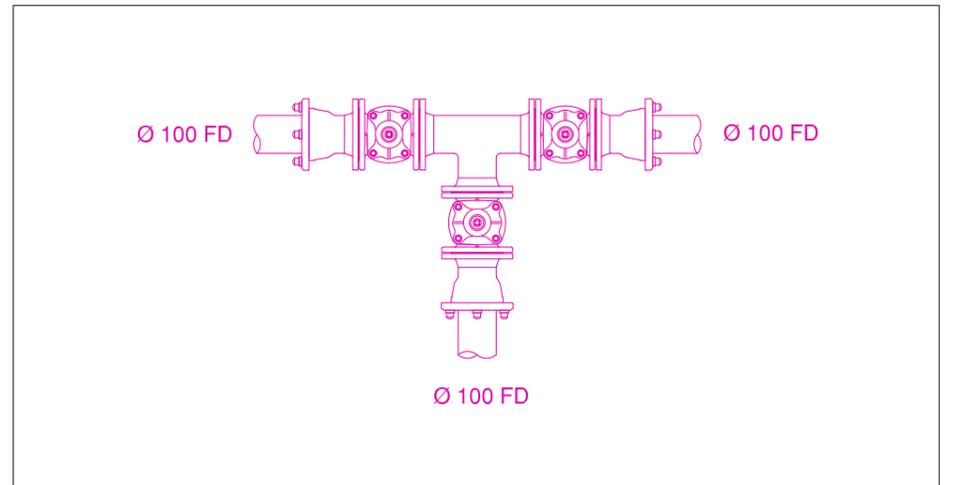
ESTADO PROYECTADO



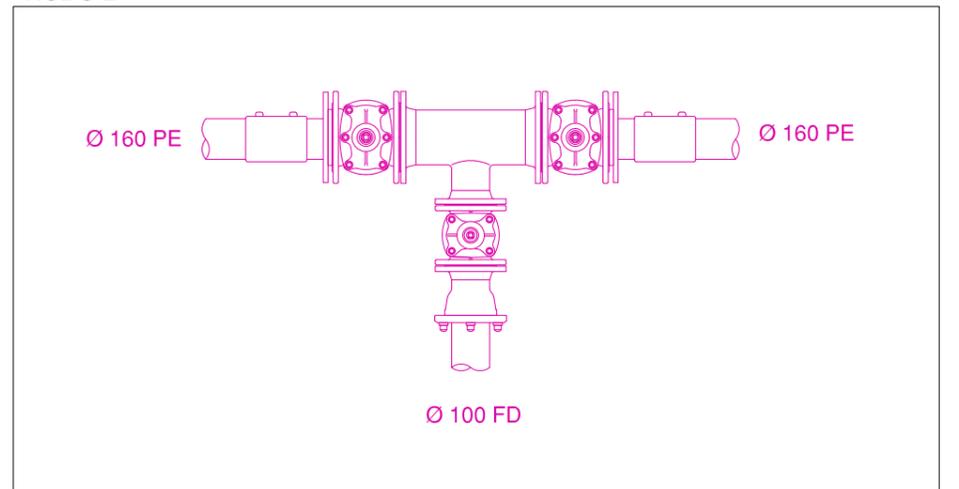
CONEXION



NUDO 1

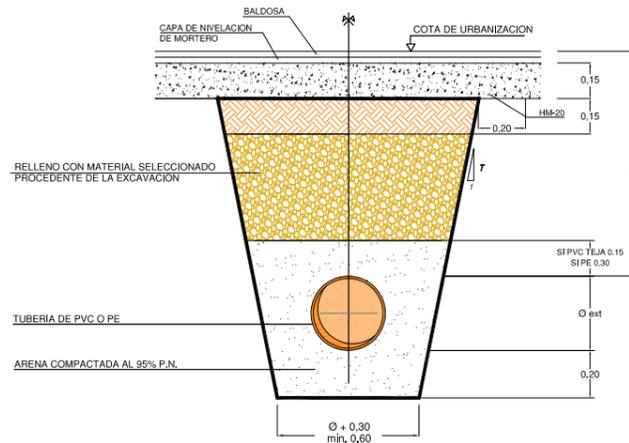


NUDO 2

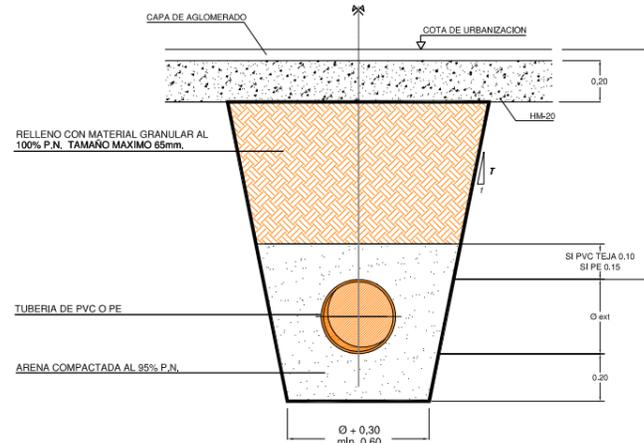


| | | | |
|---|--|------------------------------|--------------------------------|
|  | Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: ABASTECIMIENTO ACTUAL Y PROYECTADO | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: 1:1.000 | Plano Zkia. / Plano Nº: 6 | Orri Zkia. / Hoja Nº: 1 / 1 |

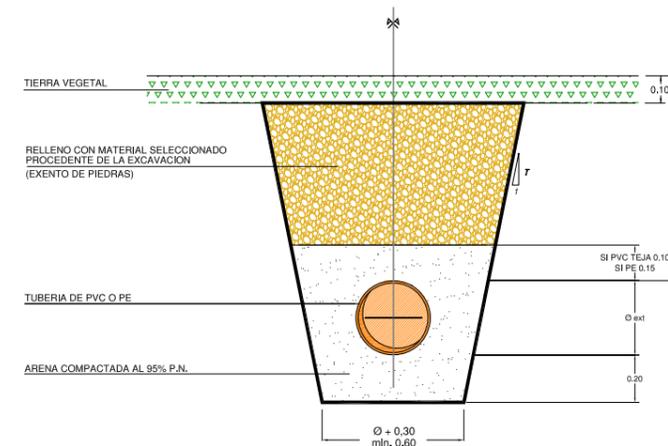
SECCION ZANJA TIPO I
SANEAMIENTO EN ACERA
H > 0.60 m.



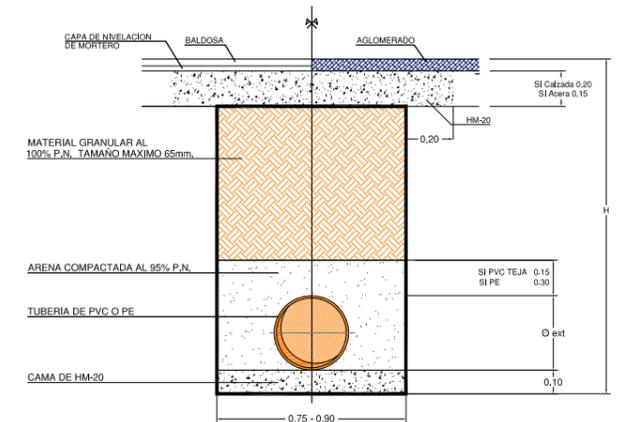
SECCION ZANJA TIPO II
SANEAMIENTO EN CALZADA
H > 0.60 m.



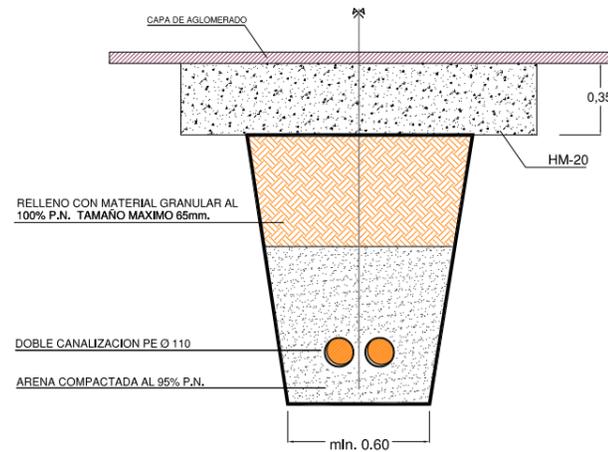
SECCION ZANJA TIPO III
SANEAMIENTO EN TIERRAS
H > 0.60 m.



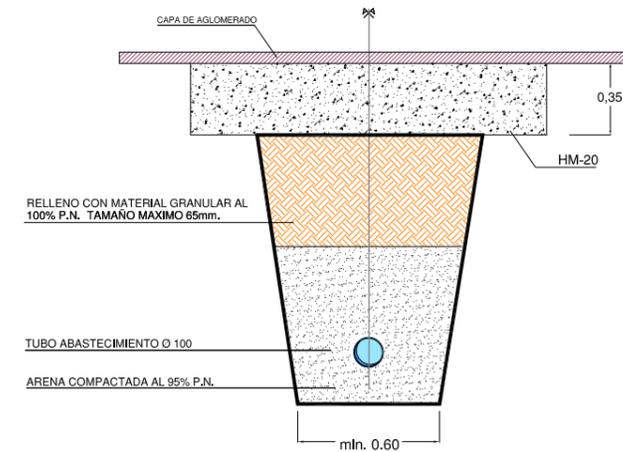
SECCION ZANJA TIPO IV
SANEAMIENTO
URBANA 1,25 < H < 2,00 M
315 < Ø < 500



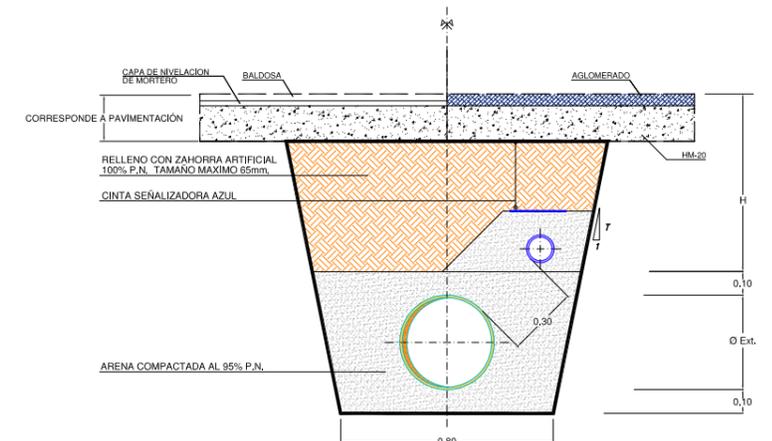
SECCION ZANJA TIPO II
IMPULSION EN CALZADA



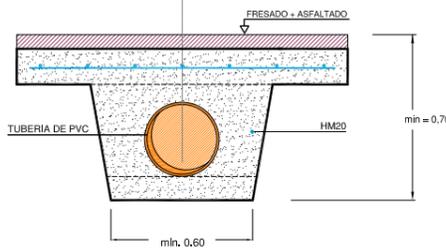
SECCION ZANJA TIPO II
ABASTECIMIENTO EN CALZADA



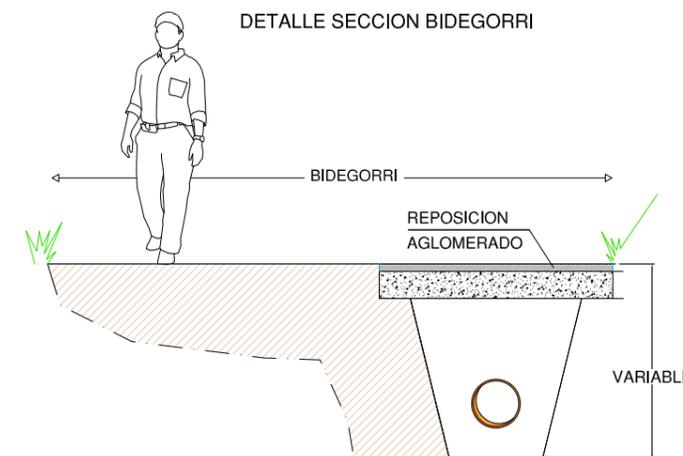
SECCION ZANJA MIXTA
COMUN ABASTECIMIENTO SANEAMIENTO



SECCION ZANJA TIPO V
SANEAMIENTO

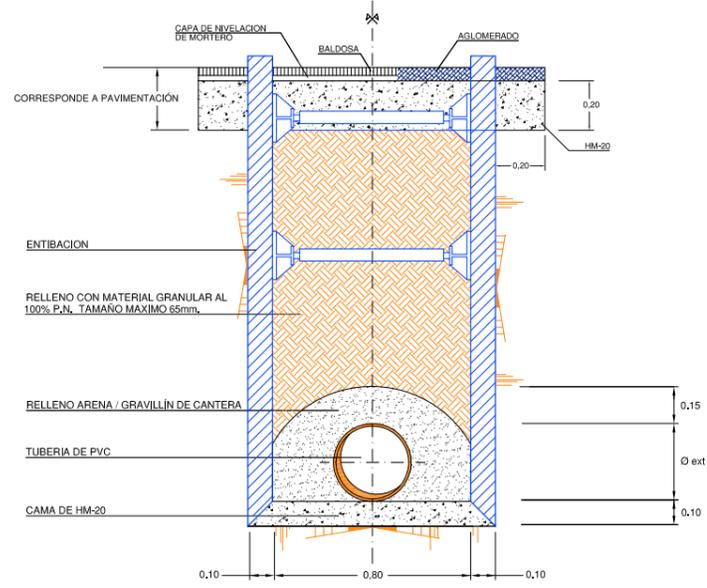


DETALLE SECCION BIDEGORRI

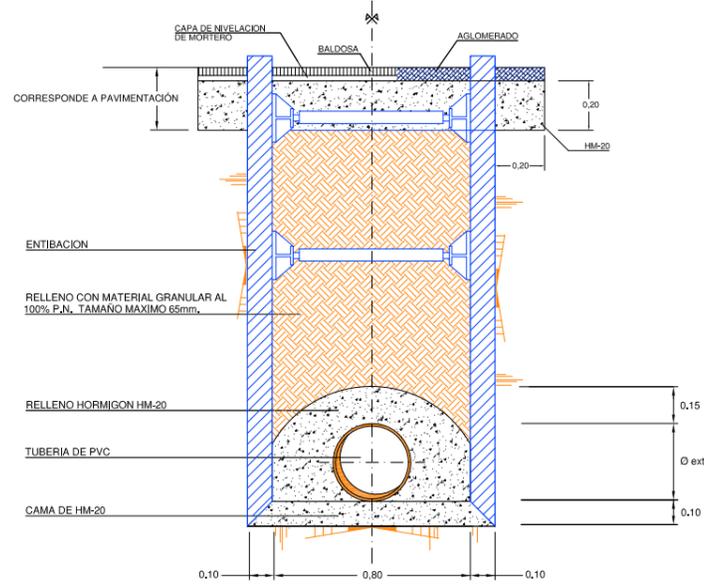


| | | | |
|---|--|------------------------------|--------------------------------|
|  | Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: ZANJAS TIPO | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: - / - | Plano Zkia. / Plano Nº: 7 | Orri Zkia. / Hoja Nº: 1 / 2 |

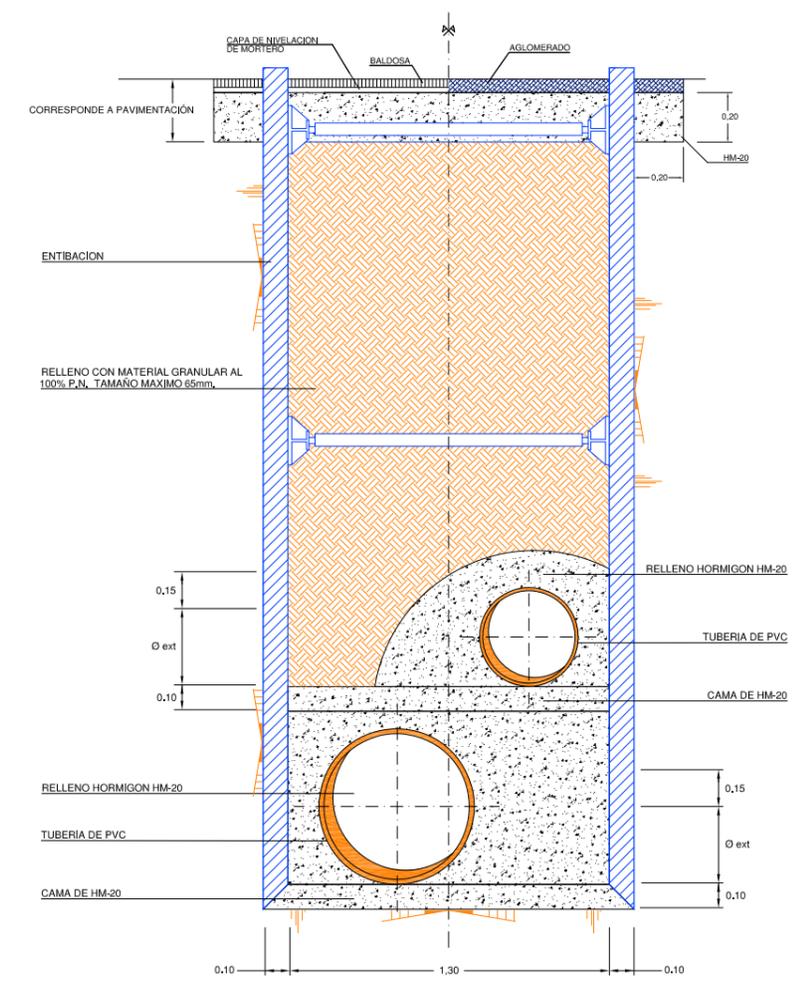
SECCION ZANJA TIPO
SANEAMIENTO IV ARENA
1,50 < H < 2,00 m.



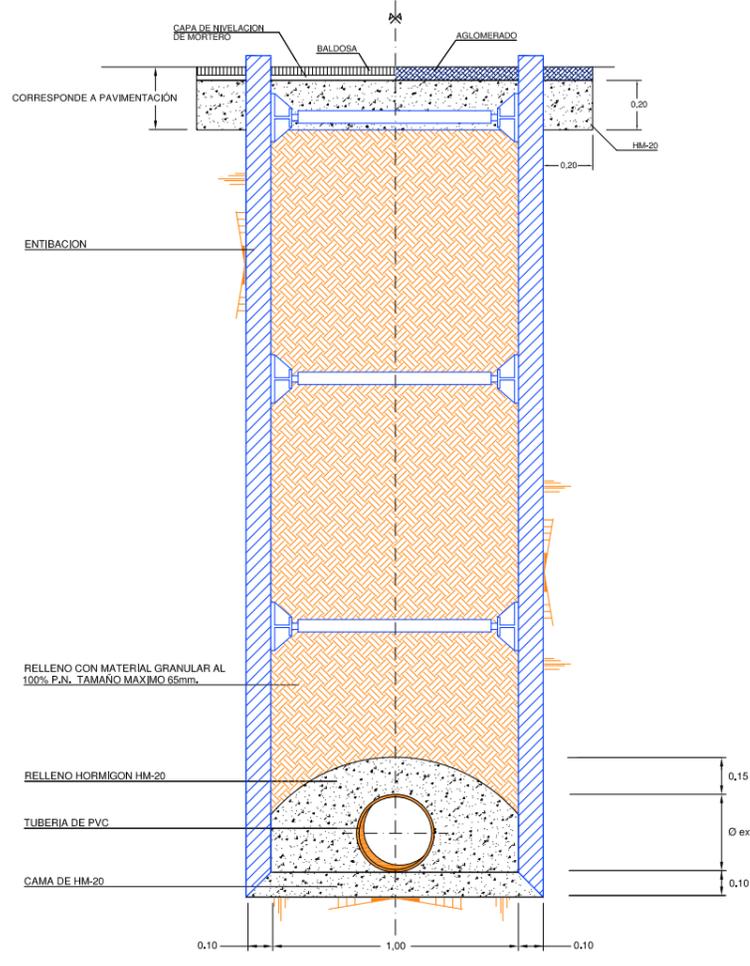
SECCION ZANJA TIPO
SANEAMIENTO VI HGON.
1,50 < H < 2,00 m.



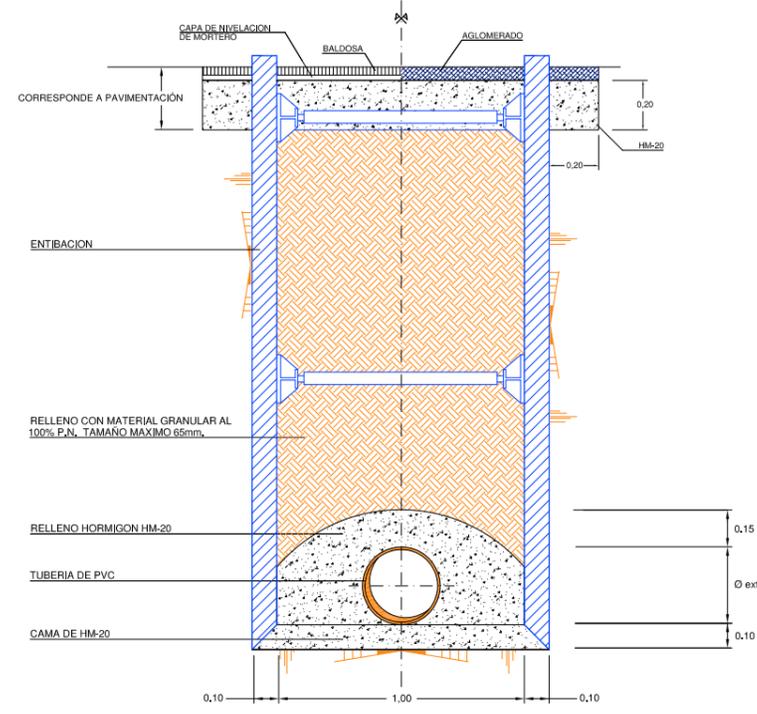
SECCION ZANJA TIPO
SANEAMIENTO - 2 TUBOS
3,00 < H < 4,00 m.



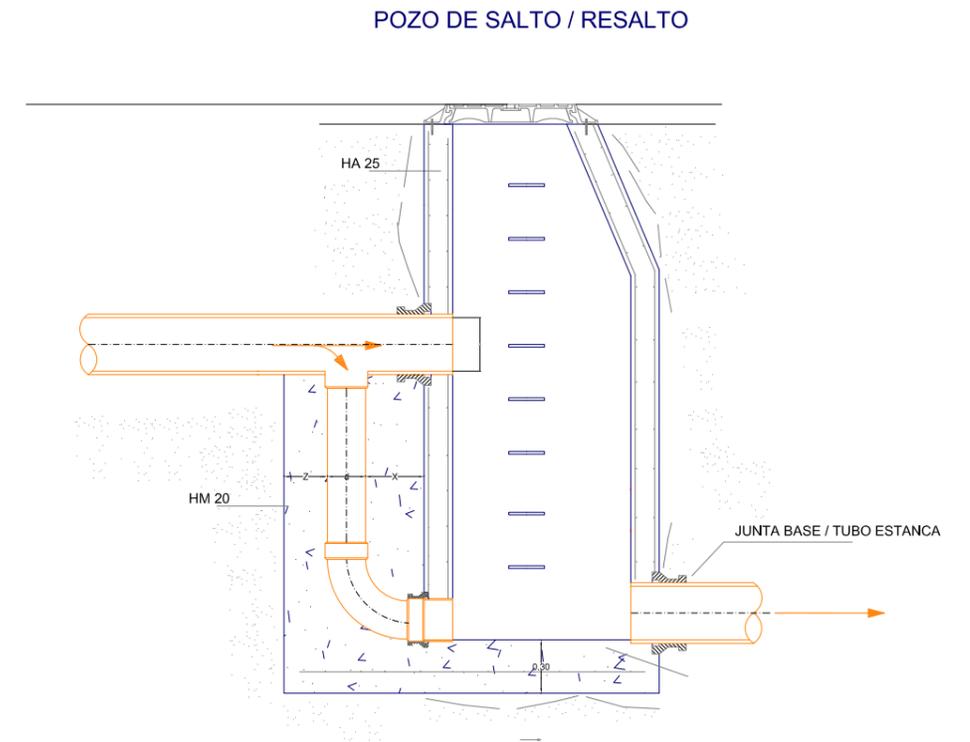
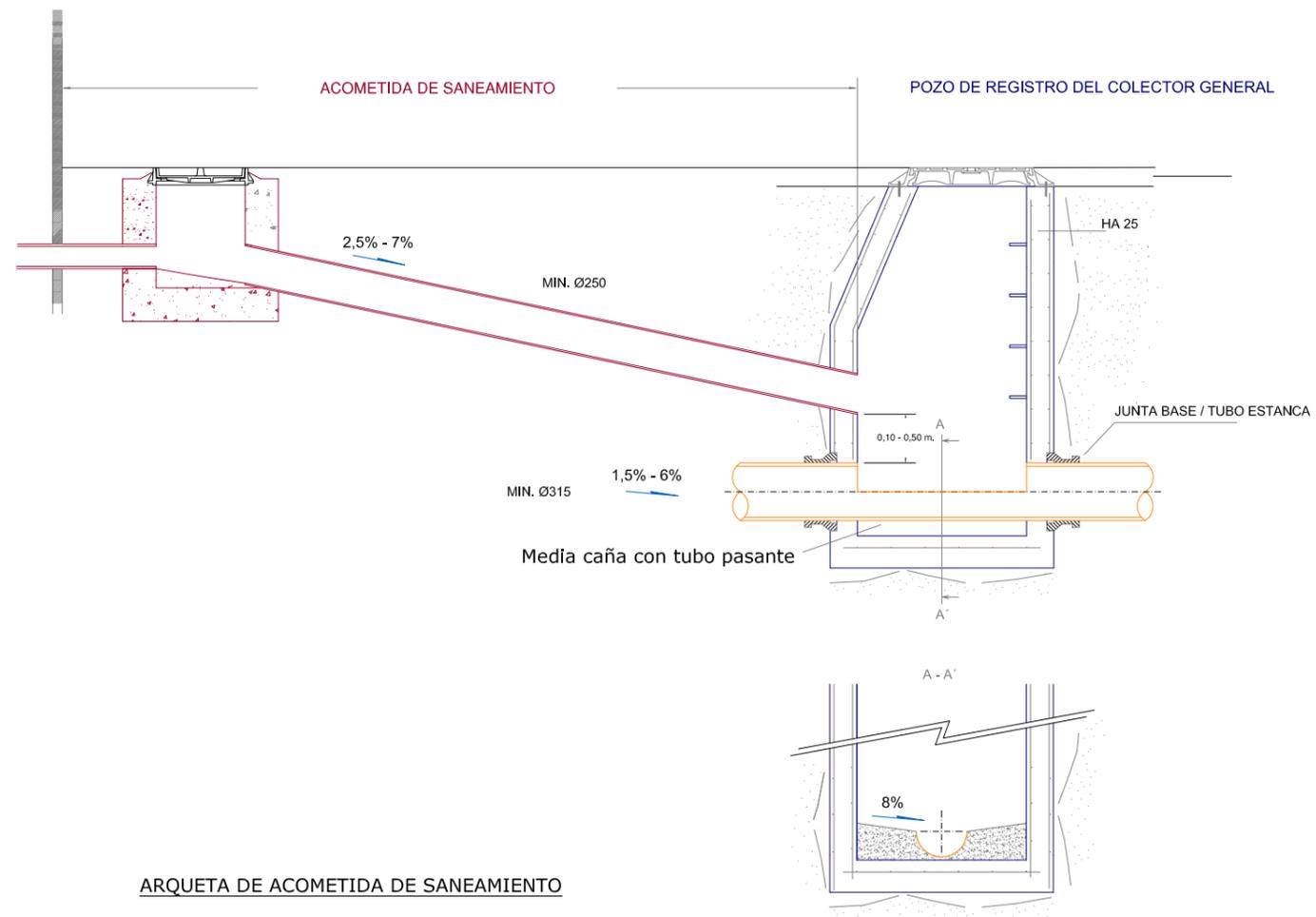
SECCION ZANJA TIPO
SANEAMIENTO VIII
3,00 < H < 4,00 m.



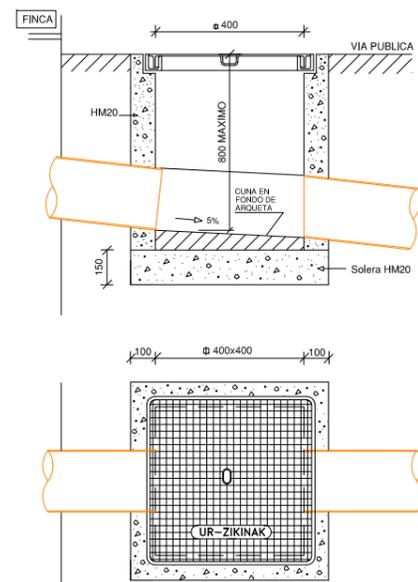
SECCION ZANJA TIPO
SANEAMIENTO VII
2,00 < H < 3,00 m.



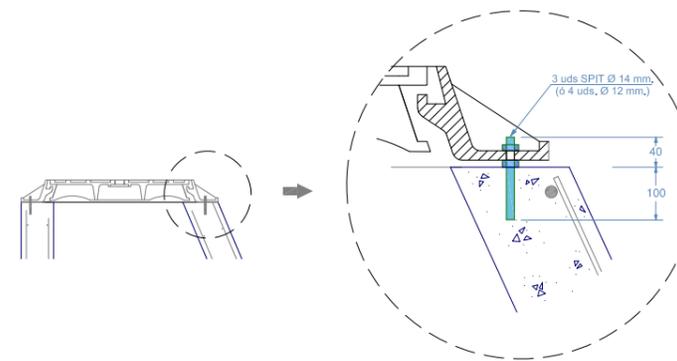
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|  | Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: ZANJAS TIPO | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: - / - | Plano Zkia. / Plano Nº: 7 | Orri Zkia. / Hoja Nº: 2 / 2 |



ARQUETA DE ACOMETIDA DE SANEAMIENTO

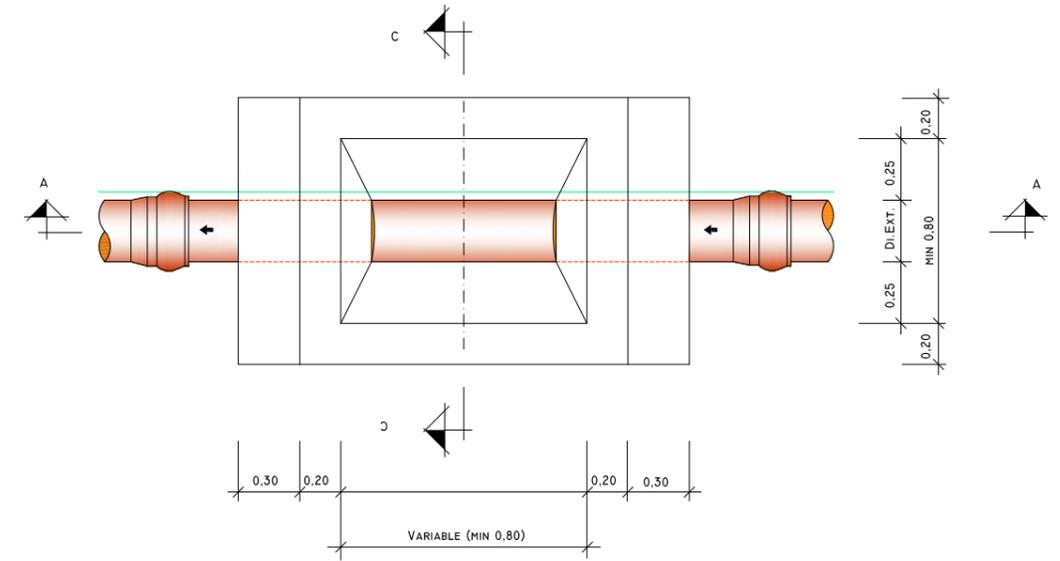
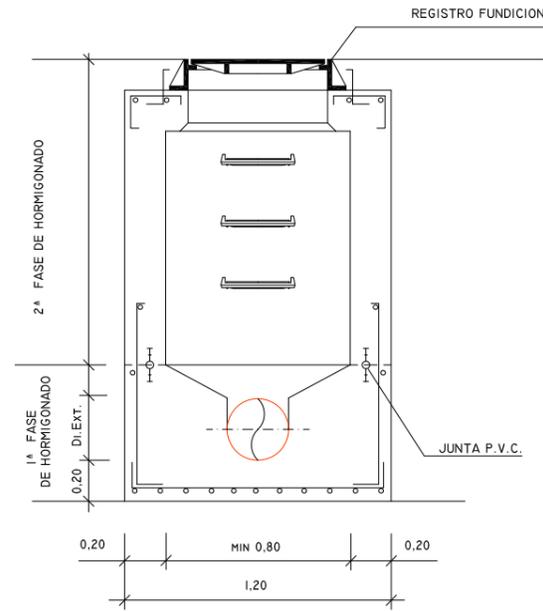
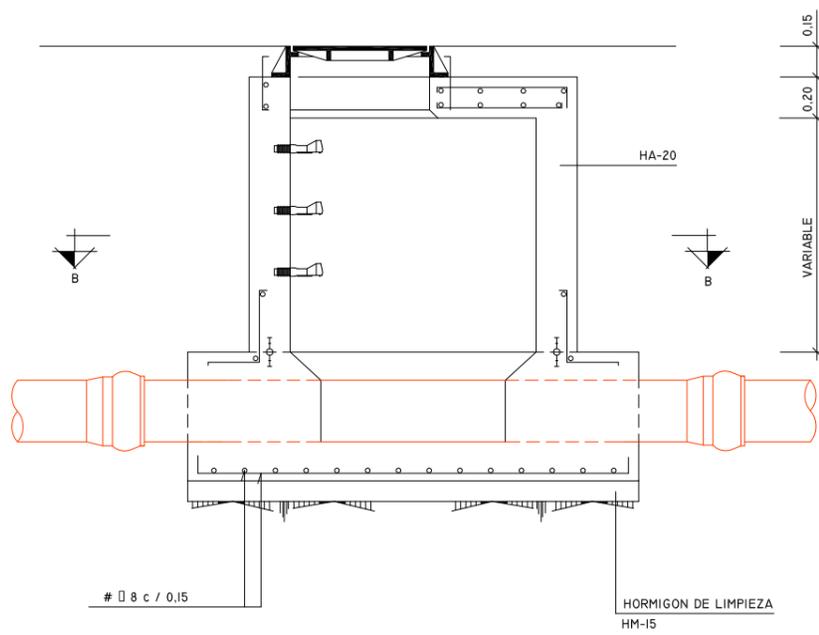


DETALLE COLOCACIÓN MARCO Y TAPA

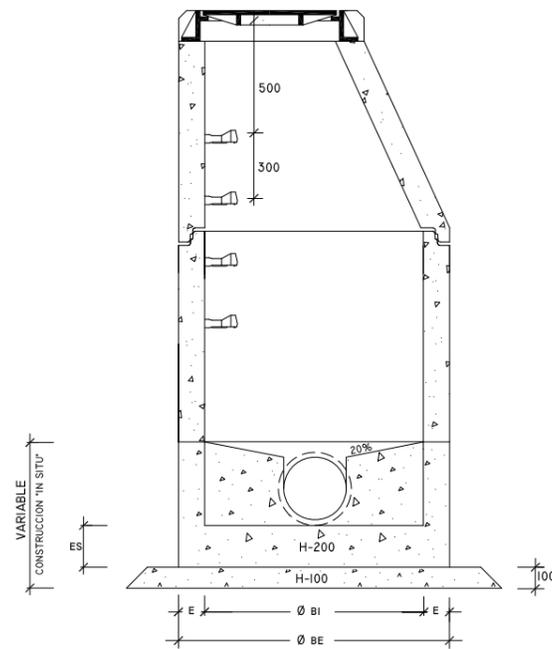


| | | | |
|---|--|------------------------------|--------------------------------|
|  Gipuzkoako Urak S.A. | Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: DETALLES SANEAMIENTO I | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: - / - | Plano Zkia. / Plano Nº: 8 | Orri Zkia. / Hoja Nº: 1 / 3 |

POZO DE REGISTRO IN SITU

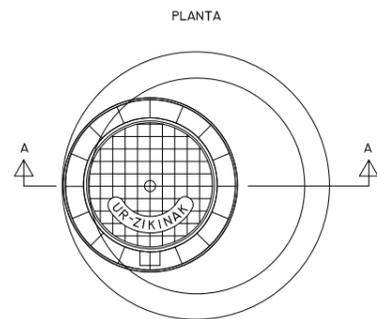
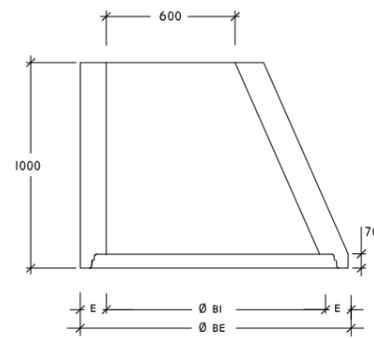


POZO DE REGISTRO PREFABRICADO

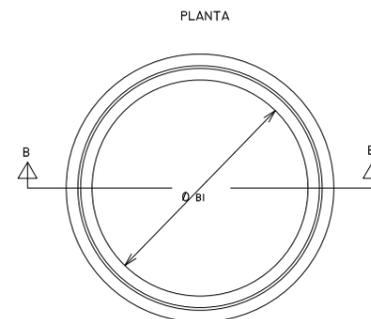
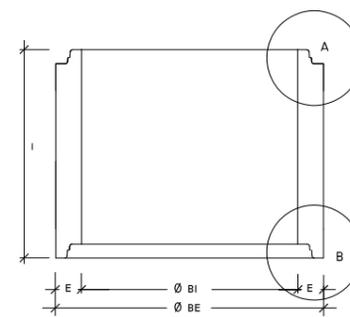


| COTAS ORIENTATIVAS EN MM. | | | |
|---------------------------|------|------|------|
| Ø BI | 1000 | 1200 | 1500 |
| Ø BE | 1240 | 1520 | 1600 |
| H | 1025 | 1200 | 1355 |
| E | 120 | 160 | 200 |
| ES | 150 | 200 | 300 |

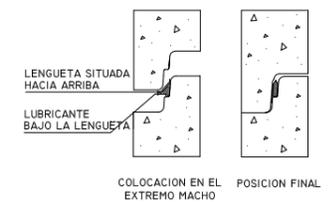
MODULO CONICO



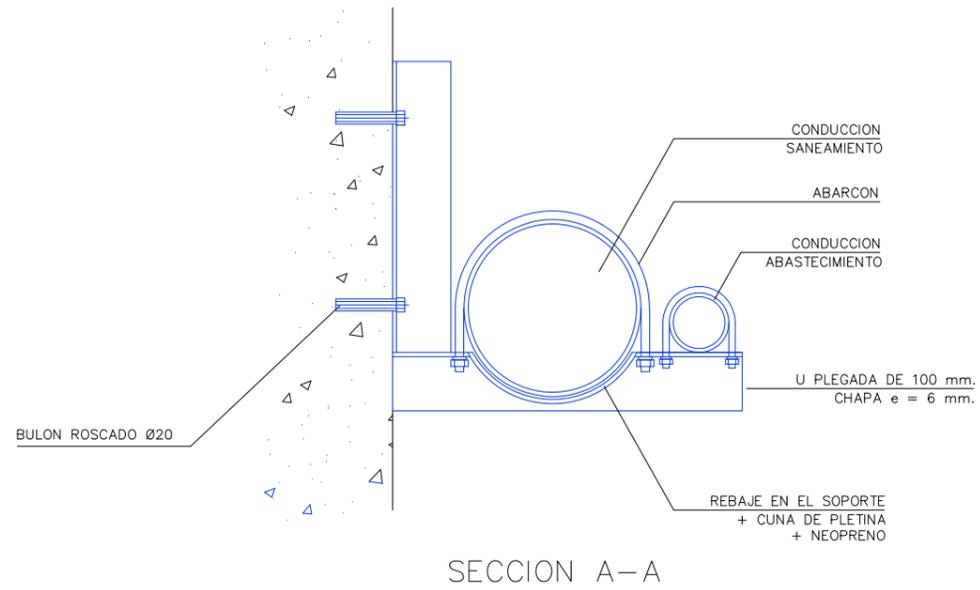
MODULO CILINDRICO



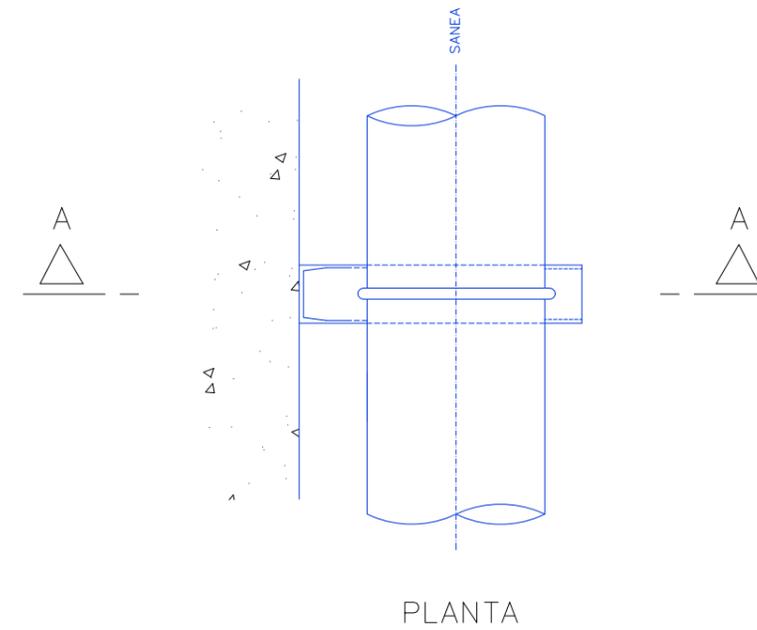
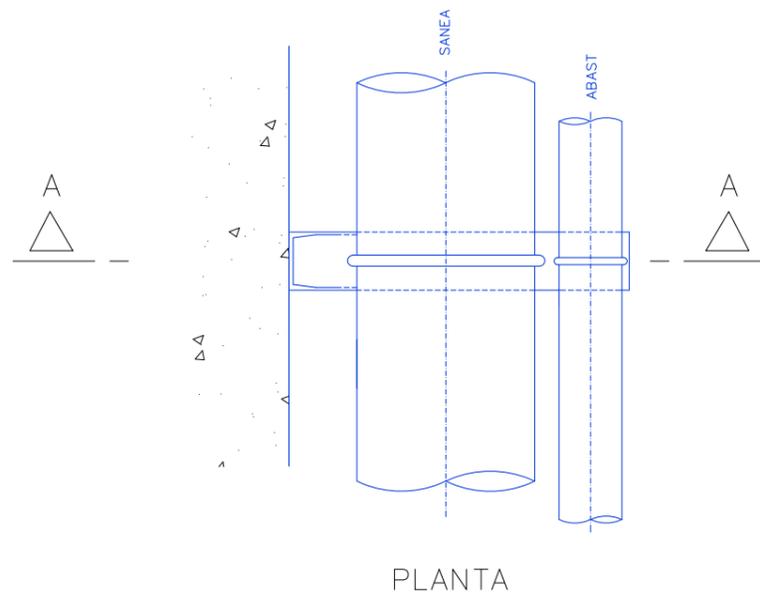
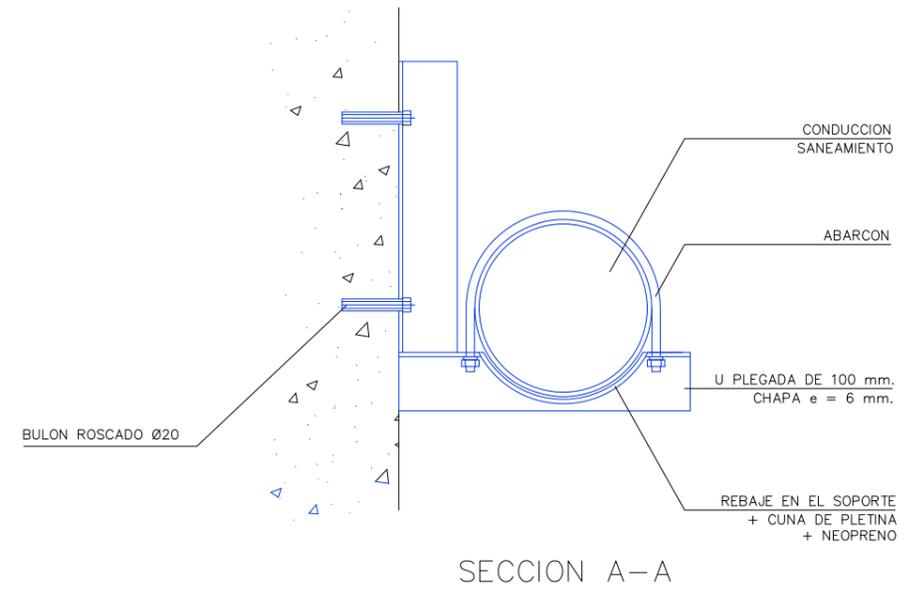
JUNTA ENTRE MODULOS



CRUCE 1
DEBA ibaia



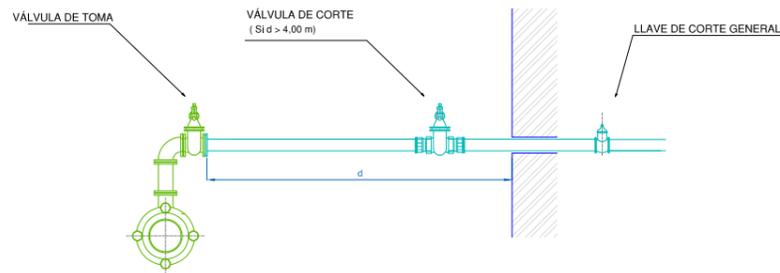
CRUCE 2
SAN ADRIAN erreka



NOTA:
LA GEOMETRIA Y EL ESTADO DEL PUENTE PODRAN MODIFICAR LAS FORMAS PROPUESTAS,
QUE DEBERÁN REPLANTEARSE EN OBRA.

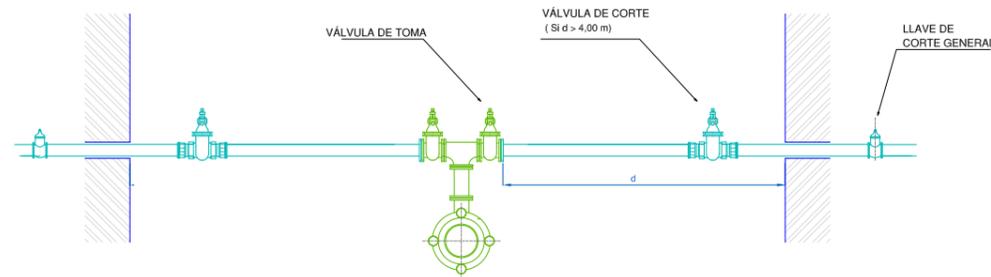
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|---|---|------------------------------|--------------------------------|
|  | Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: PASO ADOSADO A PUENTE | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: - / - | Plano Zkia. / Plano Nº: 9 | Orri Zkia. / Hoja Nº: 1 / 1 |

ACOMETIDA ABASTECIMIENTO TIPO A



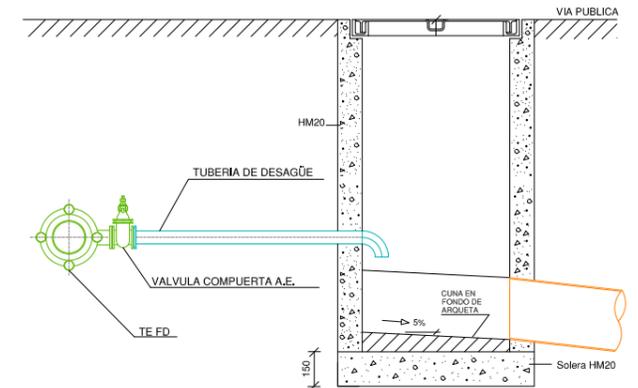
DERIVACION MEDIANTE TE CON SALIDA Ø*, CARRETE BB Ø* y CODO 90º BB Ø*
 VÁLVULAS DE TOMA DE REGISTRO SON VÁLVULAS DE COMPUERTA DE ASIENTO ELÁSTICO Ø*
 REGISTRABLES MEDIANTE TRAMPILLÓN "PURDIE" DE AVK Ó SIMILAR
 CONEXION DE NUEVA VÁLVULA DE TOMA CON ACOMETIDA EXISTENTE (PEAD PN 16 Y PIEZAS DE LATÓN)
 * EL DIÁMETRO VENDRÁ EN FUNCIÓN DEL CAUDAL REQUERIDO

ACOMETIDA ABASTECIMIENTO TIPO B



DERIVACION MEDIANTE TE EEB CON SALIDA A Ø*, CARRETE BB Ø y TE** FD BB Ø
 VÁLVULAS DE TOMA DE REGISTRO SON VÁLVULAS DE COMPUERTA DE ASIENTO ELÁSTICO Ø*
 REGISTRABLES MEDIANTE TRAMPILLÓN "PURDIE" DE AVK Ó SIMILAR
 CONEXION DE NUEVA VÁLVULA DE TOMA CON ACOMETIDA EXISTENTE (PEAD PN 16 Y PIEZAS DE LATÓN)
 * EL DIÁMETRO VENDRÁ EN FUNCIÓN DEL CAUDAL REQUERIDO
 ** PARA DERIVACIONES A TRES PUEDE EMPLEARSE CRUCETA Ø

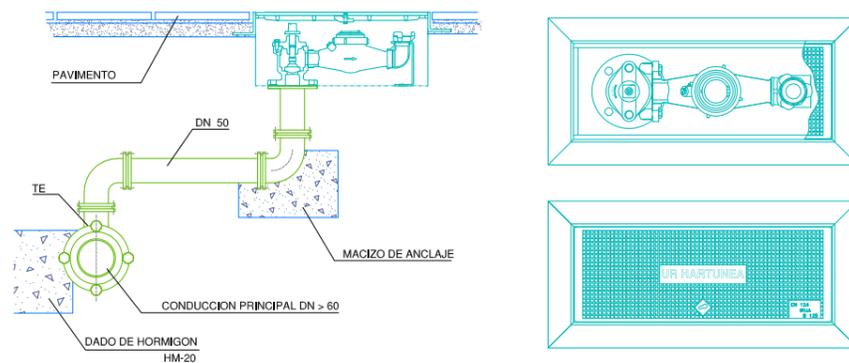
PUNTO BAJO



DERIVACION MEDIANTE TE EEB CON SALIDA Ø EN FUNCIÓN DEL CAUDAL A DESAGUAR
 VÁLVULAS DE TOMA DE REGISTRO SON VÁLVULAS DE COMPUERTA DE ASIENTO ELÁSTICO
 REGISTRABLES MEDIANTE TRAMPILLÓN "PURDIE" DE AVK Ó SIMILAR
 VERTIDO A ARQUETA INTERMEDIA EXCLUSIVA PARA VACIADO

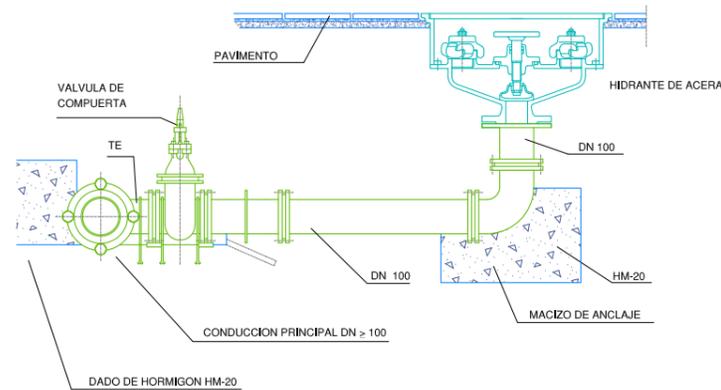
BOCA DE RIEGO

Modelo: BRI-41



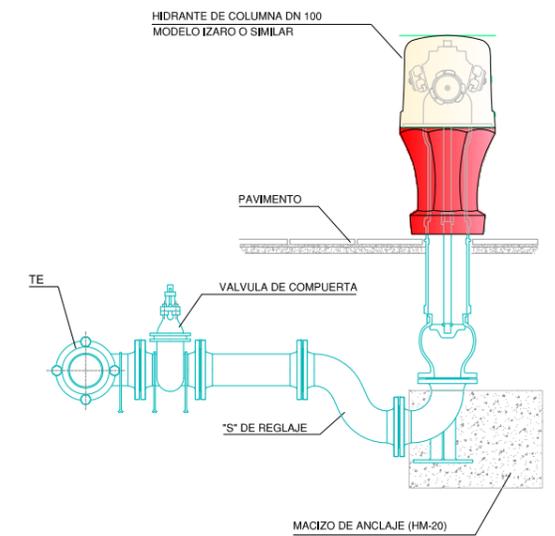
DERIVACION MEDIANTE TE EEB CON SALIDA Ø 50, CARRETES BB Ø50 y CODOS 90º BB Ø50
 LA BOCA DE RIEGO A INSTALAR CORRESPONDE AL MODELO BRI-41, EQUIPADA CON CONTADOR.
 LAS PIEZAS NECESARIAS PARA LA CONEXION ENTRE TUBERIA GENERAL Y BOCA DE RIEGO, ASI COMO
 LAS LONGITUDES DE LOS CARRETES, SE REPLANTEARAN EN OBRA.
 PARA DISTANCIAS INFERIORES A 4 m.I. NO ES PRECEPTIVA LA INSTALACIÓN DE VALVULA DE TOMA.

HIDRANTE DE ACERA



DERIVACION MEDIANTE TE EEB CON SALIDA Ø 100, CARRETE BB Ø100 y CODO 90º BB Ø60
 VÁLVULAS DE TOMA: VÁLVULAS DE COMPUERTA DE ASIENTO ELÁSTICO Ø 100 REGISTRABLES
 MEDIANTE TRAMPILLÓN "PURDIE" DE AVK Ó SIMILAR

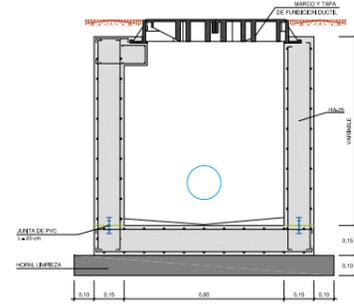
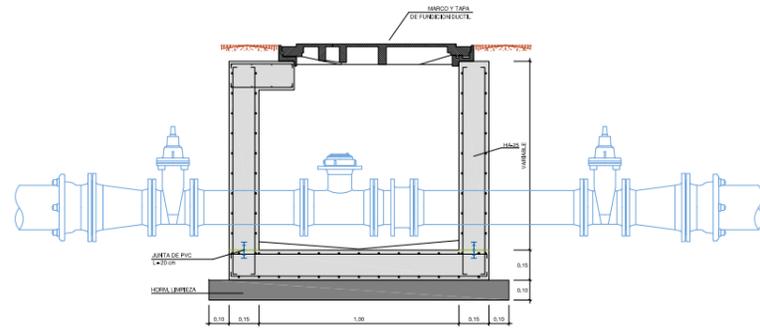
HIDRANTE DE COLUMNA



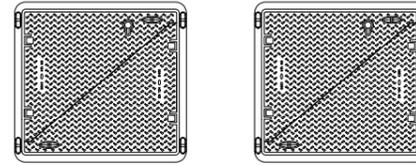
DERIVACION MEDIANTE TE EEB CON SALIDA A DN 100
 TUBERIA FD Ø 100 mm. Y PIEZAS DE FUNDICION
 VALVULA DE TOMA: VALVULA DE COMPUERTA DE ASIENTO ELASTICO Ø 100
 REGISTRABLE MEDIANTE TRAMPILLON "PERA" DE AVK 6 SIMILAR

| | | | |
|---|---|--|-----------------------|
|  | Proiektua / Proyecto: | | |
| | CONEXION SANEAMIENTO KUATRUENA | | |
| Data / Fecha: 2024ko URTARRILA | Planoaren Izenburua / Título del plano: | | Orri Zkia. / Hoja Nº: |
| | DETALLES ABASTECIMIENTO I | | 1 / 3 |
| Eskala / Escala: | Plano Zkia. / Plano Nº: | | |
| ESCALA | 10 | | |

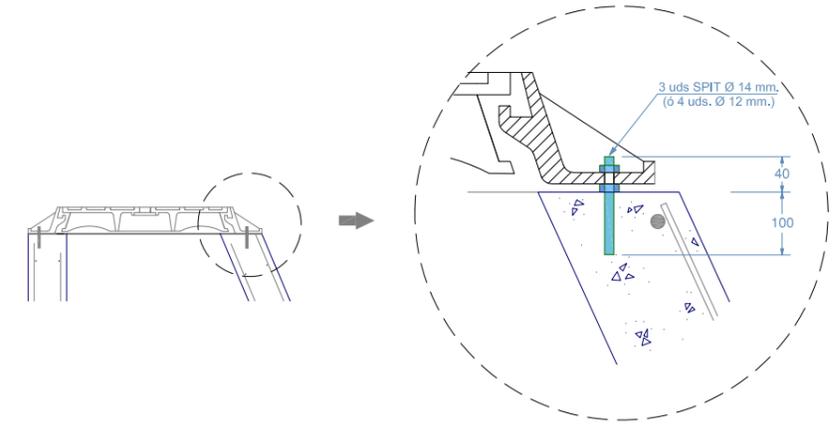
ARQUETA DE CAUDALIMETRO
1000 x 800



TAPA DE REGISTRO ARTICULADA
800 x 700



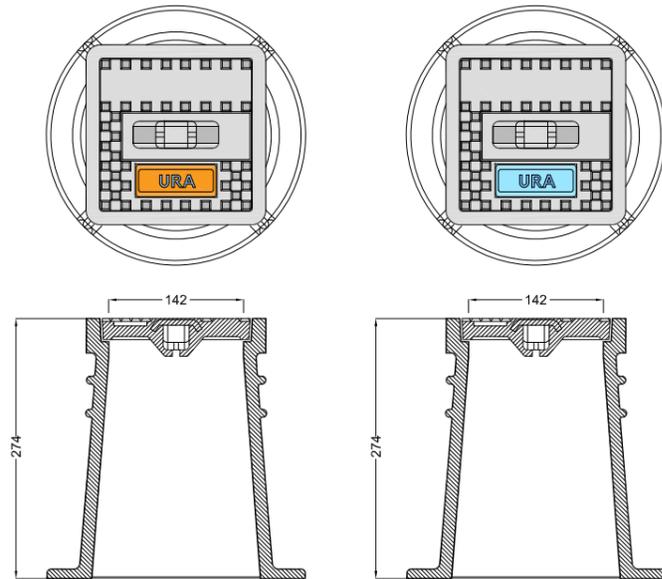
DETALLE COLOCACIÓN MARCO Y TAPA



TRAMPILLONES DE REGISTRO

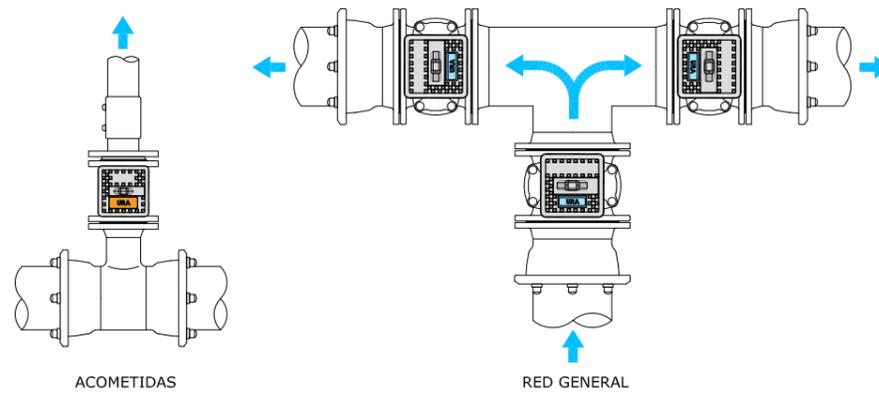
ACOMETIDAS

RED GENERAL

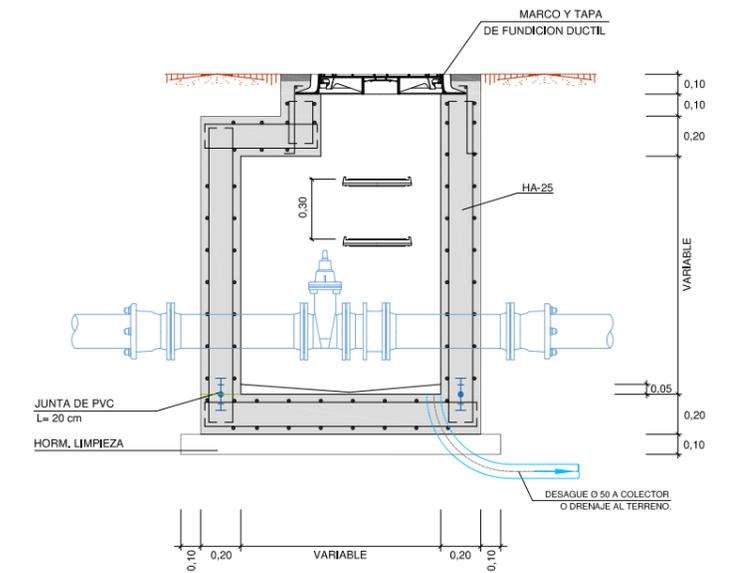


ORIENTACION DE LOS TRAMPILLONES

LOS TRAMPILLONES SE COLOCARAN DE FORMA QUE EL TEXTO QUEDE PERPENDICULAR A LA TUBERIA E INDICANDO EL SENTIDO DE CORTE, CONFORME A LOS SIGUIENTES EJEMPLOS:



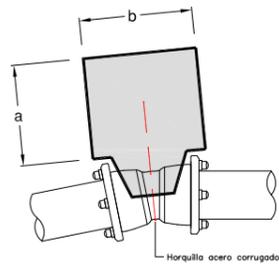
ARQUETA DE REGISTRO ABASTECIMIENTO (VÁLVULAS, VENTOSAS, ...)



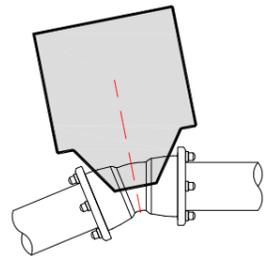
| | | | |
|---|--|-------------------------------|--------------------------------|
|  | Proiektua / Proyecto: CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: DETALLES ABASTECIMIENTO II | | |
| Data / Fecha: 2024ko URTARRILA | Eskala / Escala: ESCALA | Plano Zkia. / Plano Nº: 10 | Orri Zkia. / Hoja Nº: 2 / 3 |

MACIZOS DE ANCLAJE - GEOMETRIAY PESOS

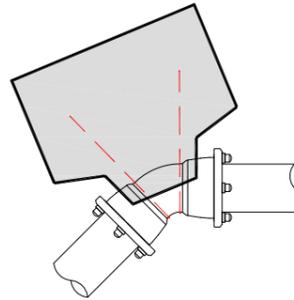
Cuadro de selección simplificado.
 Cotas orientativas. En formas condicionadas por entorno y servicios se respetará el volumen total de hormigón.
 Volumen de hormigón definido para codos horizontales y presión de trabajo 16 bar.
 Supuesto terreno de comportamiento mecánico medio.
 En aquellas ocasiones en las que sea inevitable recoger dentro del macizo la zona de juntas, de forma previa al hormigonado se envolverán completamente codos y juntas con lámina plástica.
 Otros requerimientos deberán estudiarse individualizadamente



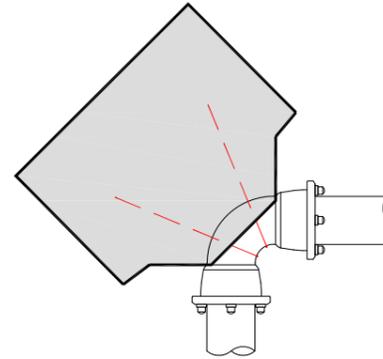
| Codo 11°15' | | 1,6 Mpa | | |
|-------------|-----|---------|-----|-----------|
| Ø (mm.) | a | b | h | Vol. (m3) |
| 100 | | | | |
| 125 | 0,5 | 0,5 | 0,5 | 0,125 |
| 150 | | | | |
| 200 | 0,6 | 0,6 | 0,6 | 0,21 |
| 250 | | | | |
| 300 | 0,7 | 0,7 | 0,7 | 0,34 |



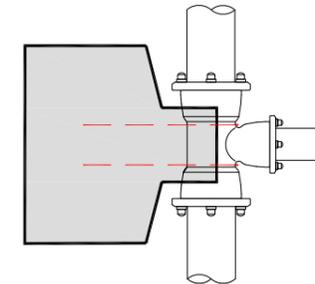
| Codo 22°30' | | 1,6 Mpa | | |
|-------------|------|---------|------|-----------|
| Ø (mm.) | a | b | h | Vol. (m3) |
| 100 | | | | |
| 125 | 0,6 | 0,6 | 0,5 | 0,18 |
| 150 | | | | |
| 200 | | | | |
| 250 | 1,00 | 1,00 | 0,80 | 0,80 |
| 300 | | | | |



| Codo 45° | | 1,6 Mpa | | |
|----------|------|---------|------|-----------|
| Ø (mm.) | a | b | h | Vol. (m3) |
| 100 | 0,60 | 0,60 | 0,60 | 0,22 |
| 125 | 0,8 | 0,8 | 0,6 | 0,40 |
| 150 | | | | |
| 200 | 1,00 | 1,00 | 0,8 | 0,80 |
| 250 | 1,00 | 1,50 | 1,00 | 1,50 |
| 300 | 1,20 | 1,75 | 1,20 | 2,50 |

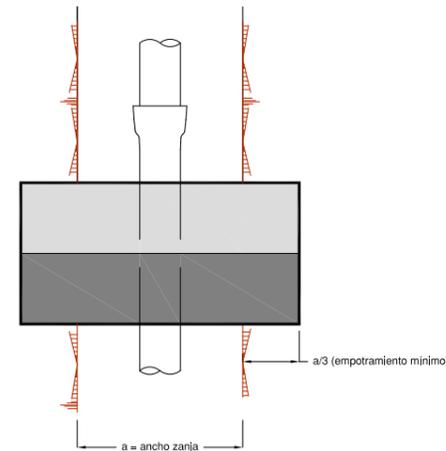
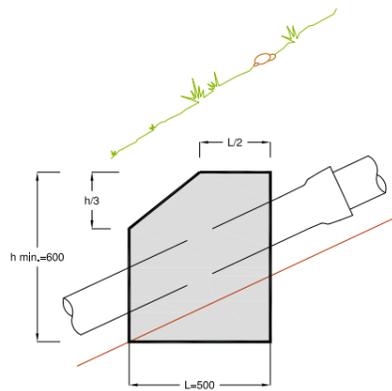
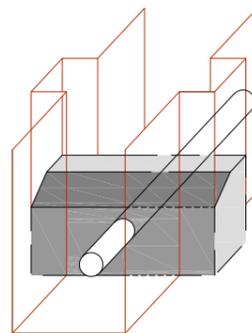


| Codo 90° | | 1,6 Mpa | | |
|----------|------|---------|------|-----------|
| Ø (mm.) | a | b | h | Vol. (m3) |
| 100 | 0,80 | 0,80 | 0,45 | 0,30 |
| 125 | 0,90 | 0,90 | 0,75 | 0,60 |
| 150 | 1,00 | 1,20 | 0,75 | 0,90 |
| 200 | 1,20 | 1,70 | 1,00 | 2,00 |
| 250 | 1,30 | 2,60 | 1,20 | 4,00 |
| 300 | 1,40 | 3,50 | 1,40 | 6,80 |



| Derivaciones | | 1,6 Mpa | | |
|--------------|------|---------|------|-----------|
| Ø (mm.) | a | b | h | Vol. (m3) |
| 100 | 0,65 | 0,65 | 0,45 | 0,19 |
| 125 | 0,80 | 0,80 | 0,45 | 0,30 |
| 150 | 1,20 | 0,90 | 0,50 | 0,60 |
| 200 | 1,00 | 1,50 | 0,80 | 1,20 |
| 250 | 1,15 | 2,00 | 1,00 | 2,30 |
| 300 | 1,30 | 2,60 | 1,20 | 4,00 |

APOYO / ANCLAJE DE CONDUCCIONES EN PENDIENTES > 25%



| | | | |
|------------------|---|-------------------------|-----------------------|
| | Proiektua / Proyecto: | | |
| | CONEXION SANEAMIENTO KUATRUENA | | |
| | Planoaren Izenburua / Título del plano: | | |
| | DETALLES ABASTECIMIENTO III | | |
| Data / Fecha: | Eskala / Escala: | Plano Zkia. / Plano Nº: | Orri Zkia. / Hoja Nº: |
| 2024ko URTARRILA | % | 10 | 3 / 3 |