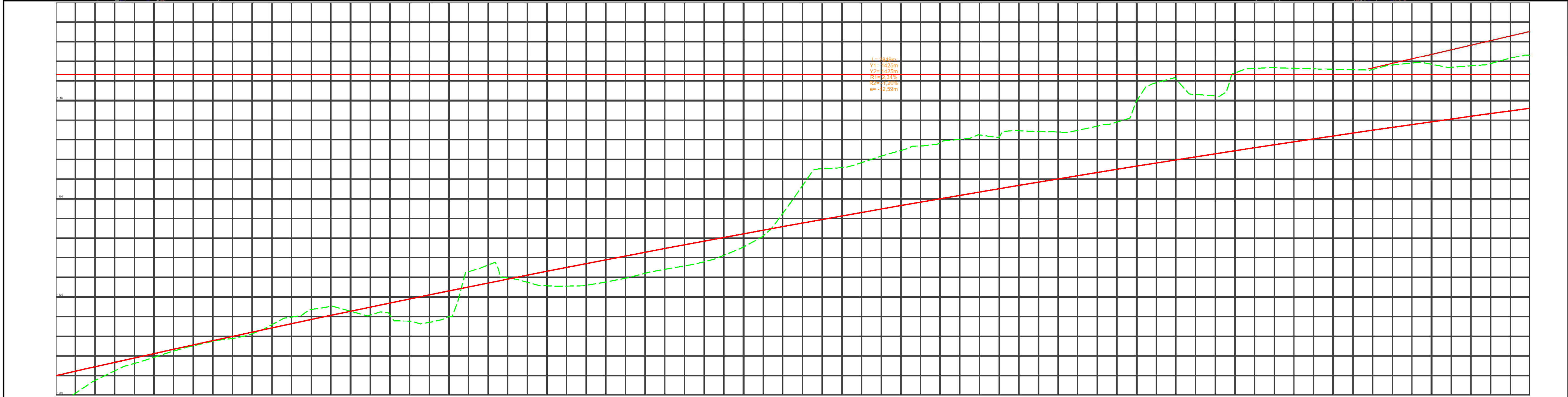
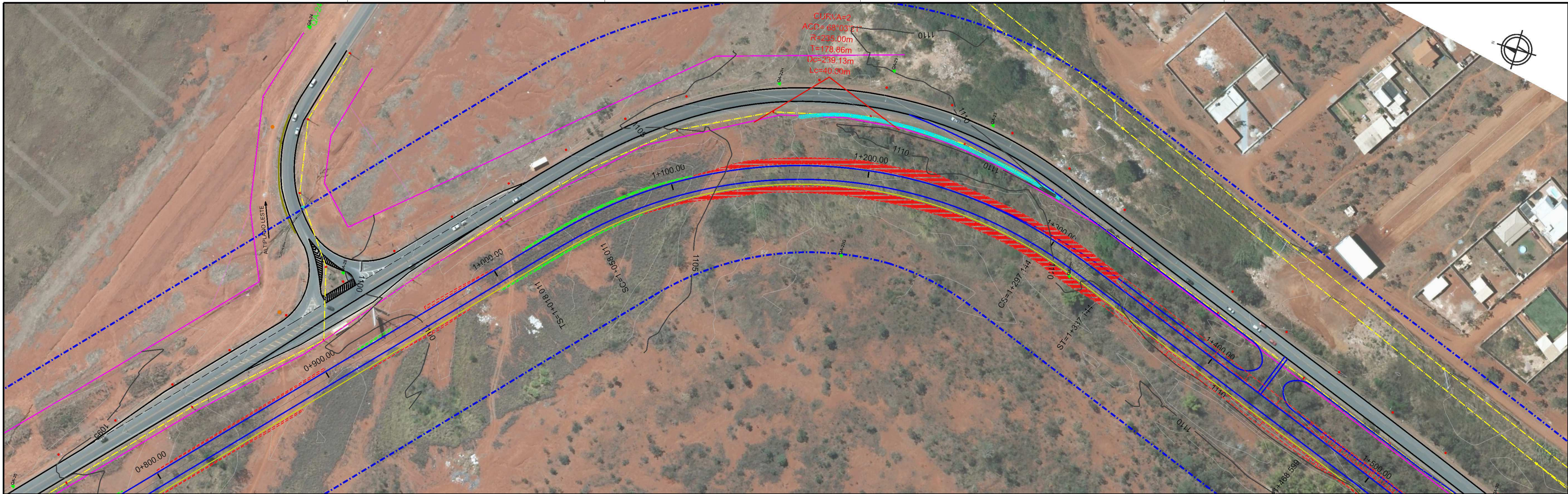








| ESTACA  | 0+750    | 0+780    | 0+800    | 0+820    | 0+840    | 0+860    | 0+880    | 0+900    | 0+920    | 0+940    | 0+960    | 0+980    | 1+000    | 1+020    | 1+040    | 1+060    | 1+080    | 1+100    | 1+120    | 1+140    | 1+160    | 1+180    | 1+200    | 1+220    | 1+240    | 1+260    | 1+280    | 1+300    | 1+320    | 1+340    | 1+360    | 1+380    | 1+400    | 1+420    | 1+440    | 1+460    | 1+480    | 1+500    |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| TERRENO | 1092.226 | 1095.100 | 1096.239 | 1096.930 | 1097.519 | 1097.886 | 1098.590 | 1099.367 | 1099.273 | 1099.086 | 1098.708 | 1101.286 | 1100.965 | 1100.568 | 1100.594 | 1100.555 | 1101.407 | 1101.793 | 1102.549 | 1104.263 | 1106.837 | 1107.457 | 1107.857 | 1108.248 | 1108.460 | 1108.395 | 1108.692 | 1109.976 | 1111.087 | 1110.233 | 1111.625 | 1111.638 | 1111.596 | 1111.580 | 1111.960 | 1111.694 | 1111.875 | 1112.302 |
| PROJETO | 1092.226 | 1095.100 | 1096.239 | 1096.930 | 1097.519 | 1097.886 | 1098.590 | 1099.367 | 1099.273 | 1099.086 | 1098.708 | 1101.286 | 1100.965 | 1100.568 | 1100.594 | 1100.555 | 1101.407 | 1101.793 | 1102.549 | 1104.263 | 1106.837 | 1107.457 | 1107.857 | 1108.248 | 1108.460 | 1108.395 | 1108.692 | 1109.976 | 1111.087 | 1110.233 | 1111.625 | 1111.638 | 1111.596 | 1111.580 | 1111.960 | 1111.694 | 1111.875 | 1112.302 |

PROJETO GEOMÉTRICO

0+750.00

— EIXO PROJETADO

— BORDO PROJETADO

— OFFSET DE ATERRO

— OFFSET DE CORTE

— PERFIL LONGITUDINAL PROJETADO

— PERFIL LONGITUDINAL DO TERRENO NATURAL

— FAIXA DE DOMÍNIO

— ACOSTAMENTO PROJETADO

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

CONVÊNCÕES

⊙ ELEMENTOS DE CURVA (VER EM RELATÓRIO A PARTE)

CADASTRO VIA EXISTENTE

— CERCA

— REDE DE ALTA TENSÃO

— REDE CEB

— POSTE

— CAIXA COLETOIRA

— CADASTRO CICLOVIACALCADA EXISTENTE

— CADASTRO BUEIRO

— CALHA

LEVANT. TOPOGRÁFICO

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

COORDENADAS UTM SIRGAS 2000

| VÉRTICE | DESCRIÇÃO  | NORTE      | ESTE        | ALTITUDE |
|---------|------------|------------|-------------|----------|
| BRAZ    | REFERÊNCIA | 191901.219 | 8234747.340 | 1118.330 |
| QA-1    | BASE       | 199673.440 | 8247359.410 | 1112.623 |
| QA-2    | MARCO      | 199916.222 | 8247674.201 | 1114.707 |
| Q2      | PIQUETE    | 199004.947 | 8246448.897 | 1104.344 |
| Q1      | PIQUETE    | 199200.473 | 8246716.290 | 1104.480 |
| P1      | PIQUETE    | 199914.140 | 8250163.316 | 1078.405 |
| P2      | PIQUETE    | 200033.004 | 8250229.087 | 1078.759 |

DEPARTAMENTO DE ESTRADAS DE RODAGEM DO DISTRITO FEDERAL

EXECUTIVO

1:1.000

02/08

DF-001

km 20 ao km 25

DE\_VD\_DF001-020025\_E-GE\_321

001EDF0110

km 20 ao km 25

DE\_VD\_DF001-020025\_E-GE\_321

PROJETO GEOMÉTRICO DE DUPLICAÇÃO

PLANTA E PERFIL

DF-001- ESTACAS 0+000 A 5+316

RESPOSTA

PLANO FRAGASSI

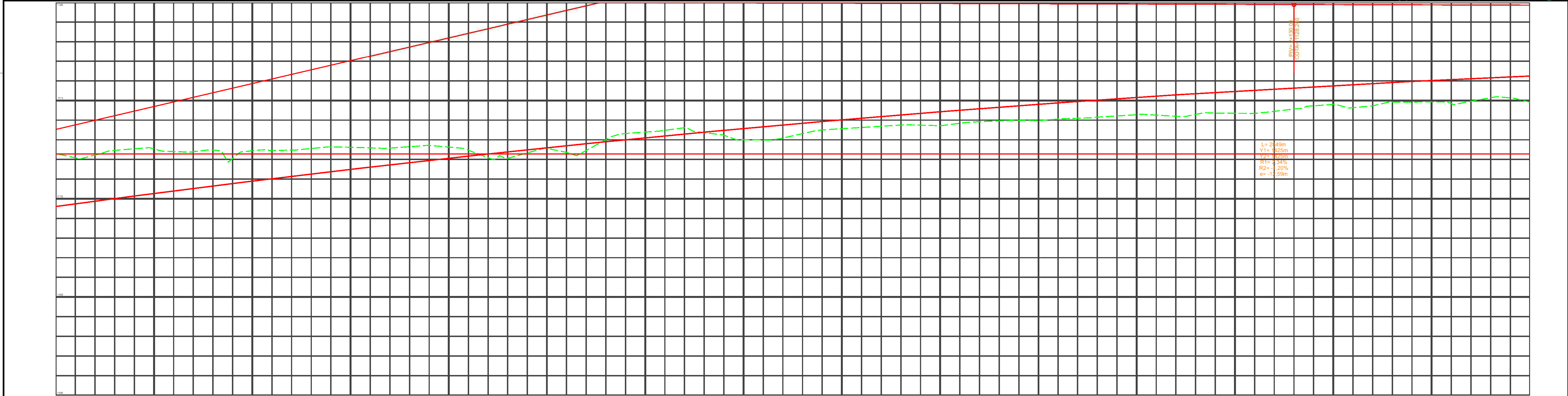
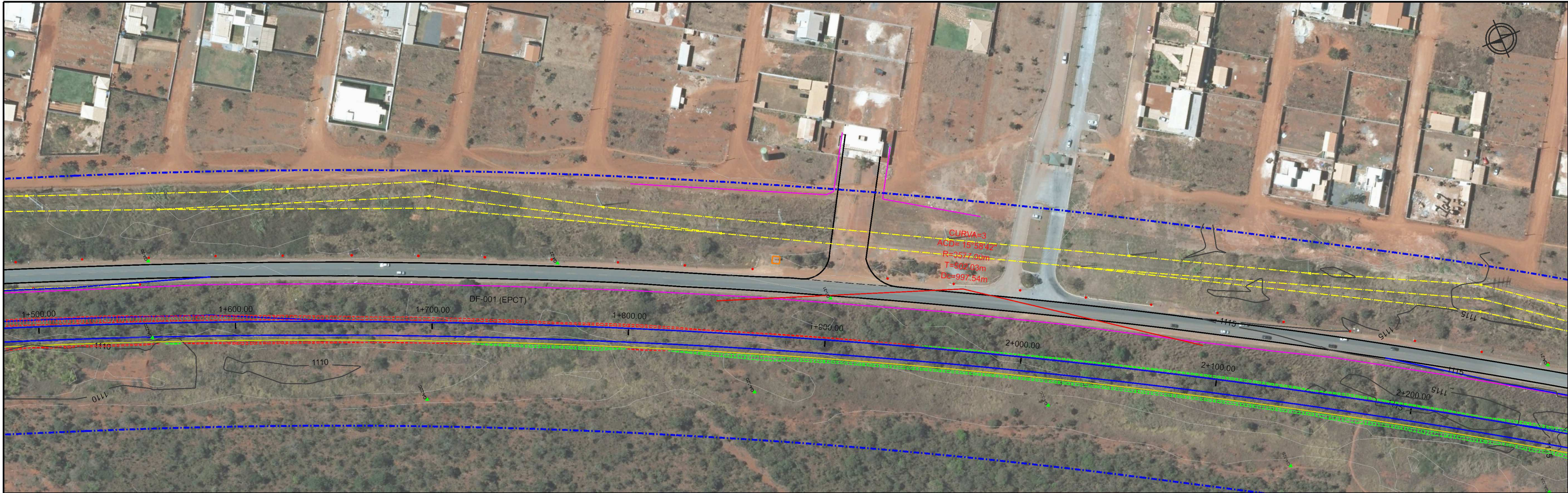
CREA 88.431/D-MG

SETOR: SUTEC

DESENHO

MATRICULA





| ESTACA  | 1+500    | 1+520    | 1+540    | 1+560    | 1+580    | 1+600    | 1+620    | 1+640    | 1+660    | 1+680    | 1+700    | 1+720    | 1+740    | 1+760    | 1+780    | 1+800    | 1+820    | 1+840    | 1+860    | 1+880    | 1+900    | 1+920    | 1+940    | 1+960    | 1+980    | 2+000    | 2+020    | 2+040    | 2+060    | 2+080    | 2+100    | 2+120    | 2+140    | 2+160    | 2+180    | 2+200    | 2+220    | 2+240    |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| TERRENO | 1105.387 | 1106.148 | 1106.509 | 1106.870 | 1107.231 | 1107.592 | 1107.953 | 1108.315 | 1108.676 | 1109.037 | 1109.398 | 1109.759 | 1110.120 | 1110.481 | 1110.842 | 1111.203 | 1111.564 | 1111.926 | 1112.287 | 1112.648 | 1113.009 | 1113.370 | 1113.731 | 1114.092 | 1114.453 | 1114.814 | 1115.175 | 1115.537 | 1115.898 | 1116.259 | 1116.620 | 1116.981 | 1117.342 | 1117.703 | 1118.064 | 1118.425 | 1118.786 | 1119.147 |
| PROJETO | 1105.387 | 1106.148 | 1106.509 | 1106.870 | 1107.231 | 1107.592 | 1107.953 | 1108.315 | 1108.676 | 1109.037 | 1109.398 | 1109.759 | 1110.120 | 1110.481 | 1110.842 | 1111.203 | 1111.564 | 1111.926 | 1112.287 | 1112.648 | 1113.009 | 1113.370 | 1113.731 | 1114.092 | 1114.453 | 1114.814 | 1115.175 | 1115.537 | 1115.898 | 1116.259 | 1116.620 | 1116.981 | 1117.342 | 1117.703 | 1118.064 | 1118.425 | 1118.786 | 1119.147 |

PROJETO GEOMÉTRICO

0+100.00

--- EIXO PROJETADO

--- BORDO PROJETADO

--- OFFSET DE ATERRO

--- OFFSET DE CORTE

--- PERFIL LONGITUDINAL PROJETADO

--- PERFIL LONGITUDINAL DO TERRENO NATURAL

--- FAIXA DE DOMÍNIO

--- ACOSTAMENTO PROJETADO

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

LEVANT. TOPOGRÁFICO

CADASTRO VIA EXISTENTE

CERCA

REDE DE ALTA TENSÃO

REDE CEB

POSTE

CAIXA COLETORA

CADASTRO CICLOVIACALCADA EXISTENTE

CADASTRO BUEIRO

CALHA

ELEMENTOS DE CURVA (VER EM RELATÓRIO A PARTE)

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

COORDENADAS UTM SIRGAS 2000

| VÉRTICE | DESCRIÇÃO  | NORTE      | ESTE        | ALTITUDE |
|---------|------------|------------|-------------|----------|
| BRAZ    | REFERÊNCIA | 191901.219 | 8234747.340 | 1118.330 |
| QA-1    | BASE       | 199673.440 | 8247359.410 | 1112.623 |
| QA-2    | MARCO      | 199916.222 | 8247674.201 | 1114.707 |
| Q2      | PIQUETE    | 199004.947 | 8246448.897 | 1104.344 |
| Q1      | PIQUETE    | 199200.473 | 8246716.290 | 1104.480 |
| P1      | PIQUETE    | 199914.140 | 8250163.316 | 1078.405 |
| P2      | PIQUETE    | 200033.004 | 8250229.087 | 1078.759 |

DEPARTAMENTO DE ESTRADAS DE RODAGEM DO DISTRITO FEDERAL

EXECUTIVO

1:1.000

03/08

DF-001

km 20 ao km 25

DE\_VD\_DF001-020025\_E-GE\_321

001EDF0110

km 20 ao km 25

DE\_VD\_DF001-020025\_E-GE\_321

RESP. PROJ. CIVILINO FRAGASSI

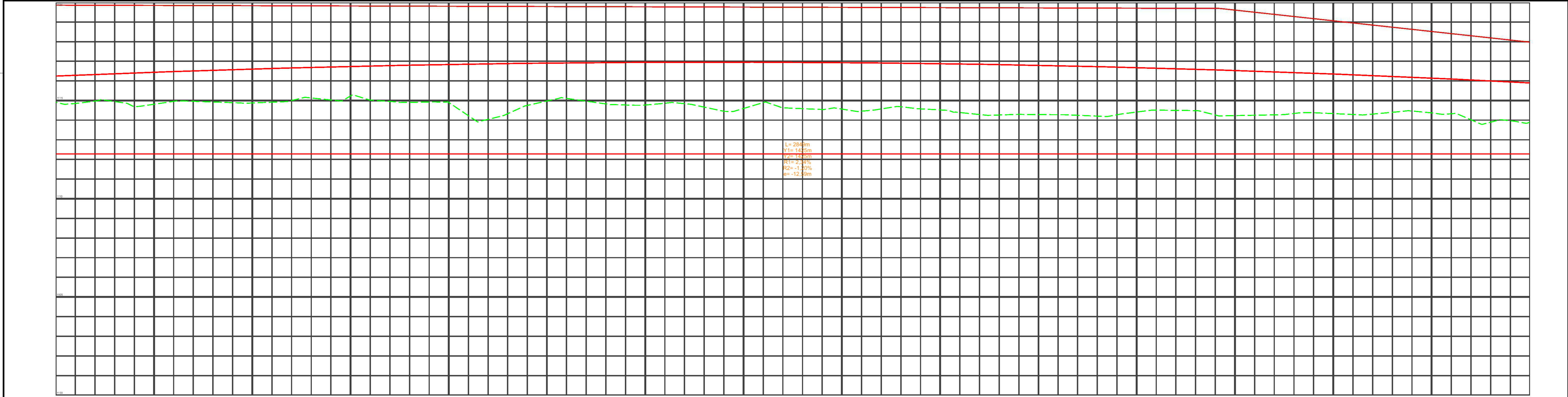
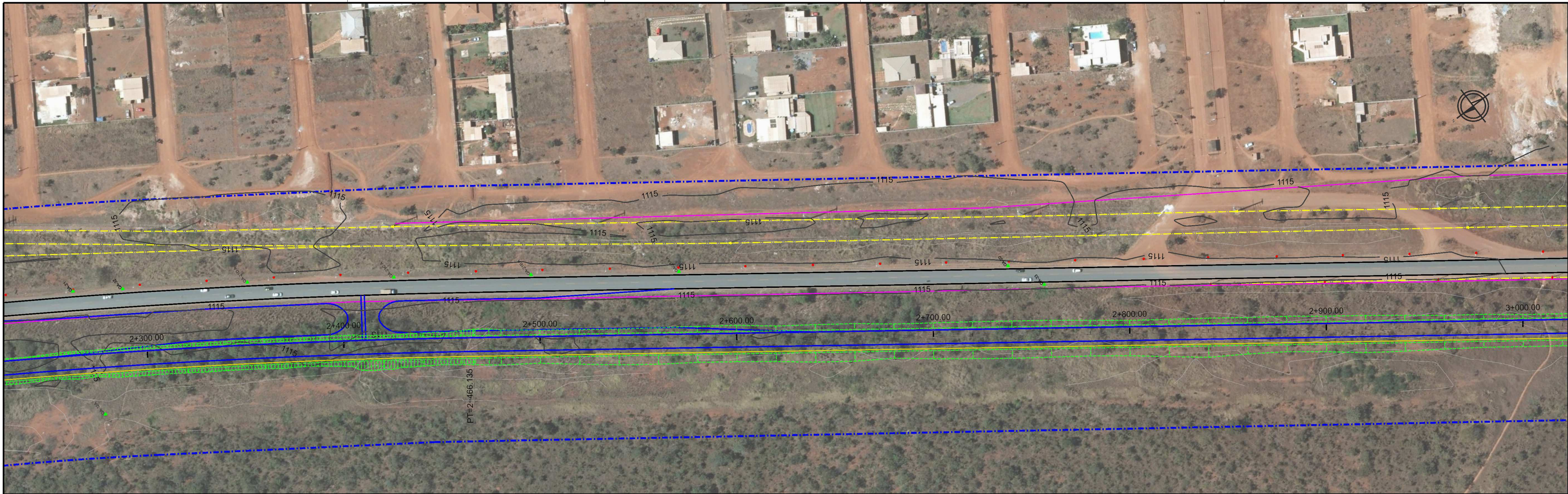
CREA 18.431/D-MG

SETOR: SUTEC

DESENHO

MATRICULA





| ESTACA  | 2+250               | 2+280               | 2+300               | 2+320               | 2+340               | 2+360               | 2+380               | 2+400               | 2+420               | 2+440               | 2+460               | 2+480               | 2+500               | 2+520               | 2+540               | 2+560               | 2+580               | 2+600               | 2+620               | 2+640               | 2+660               | 2+680               | 2+700               | 2+720               | 2+740               | 2+760               | 2+780               | 2+800               | 2+820               | 2+840               | 2+860               | 2+880               | 2+900               | 2+920               | 2+940               | 2+960               | 2+980               | 3+000               |
|---------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| TERRENO | 1117.560 - 1114.847 | 1117.794 - 1114.945 | 1117.628 - 1114.805 | 1117.562 - 1114.957 | 1117.297 - 1114.880 | 1117.131 - 1114.914 | 1116.865 - 1115.128 | 1116.799 - 1115.228 | 1116.633 - 1114.950 | 1116.468 - 1114.922 | 1116.302 - 1114.225 | 1116.136 - 1114.323 | 1115.970 - 1114.973 | 1115.805 - 1114.966 | 1115.639 - 1114.772 | 1115.473 - 1114.859 | 1115.307 - 1114.865 | 1115.142 - 1114.594 | 1114.976 - 1114.628 | 1114.810 - 1114.541 | 1114.644 - 1114.458 | 1114.478 - 1114.681 | 1114.313 - 1114.516 | 1114.147 - 1114.286 | 1113.981 - 1114.293 | 1113.815 - 1114.277 | 1113.650 - 1114.203 | 1113.484 - 1114.411 | 1113.318 - 1114.497 | 1113.152 - 1114.262 | 1112.987 - 1114.250 | 1112.821 - 1114.339 | 1112.655 - 1114.333 | 1112.489 - 1114.308 | 1112.324 - 1114.464 | 1112.158 - 1114.324 | 1111.992 - 1113.886 | 1111.826 - 1113.881 |
| PROJETO | 1117.560 - 1114.847 | 1117.794 - 1114.945 | 1117.628 - 1114.805 | 1117.562 - 1114.957 | 1117.297 - 1114.880 | 1117.131 - 1114.914 | 1116.865 - 1115.128 | 1116.799 - 1115.228 | 1116.633 - 1114.950 | 1116.468 - 1114.922 | 1116.302 - 1114.225 | 1116.136 - 1114.323 | 1115.970 - 1114.973 | 1115.805 - 1114.966 | 1115.639 - 1114.772 | 1115.473 - 1114.859 | 1115.307 - 1114.865 | 1115.142 - 1114.594 | 1114.976 - 1114.628 | 1114.810 - 1114.541 | 1114.644 - 1114.458 | 1114.478 - 1114.681 | 1114.313 - 1114.516 | 1114.147 - 1114.286 | 1113.981 - 1114.293 | 1113.815 - 1114.277 | 1113.650 - 1114.203 | 1113.484 - 1114.411 | 1113.318 - 1114.497 | 1113.152 - 1114.262 | 1112.987 - 1114.250 | 1112.821 - 1114.339 | 1112.655 - 1114.333 | 1112.489 - 1114.308 | 1112.324 - 1114.464 | 1112.158 - 1114.324 | 1111.992 - 1113.886 | 1111.826 - 1113.881 |

PROJETO GEOMÉTRICO

0+100.00

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EIXO PROJETADO

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BORDO PROJETADO

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OFFSEI DE ATERRIO

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OFFSEI DE CORTE

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PERFIL LONGITUDINAL PROJETADO

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PERFIL LONGITUDINAL DO TERRENO NATURAL

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FAIXA DE DOMÍNIO

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ACOSTAMENTO PROJETADO

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CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

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LEVANT. TOPOGRÁFICO

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CADASTRO VIA EXISTENTE

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CERCA

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REDE DE ALTA TENSÃO

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REDE CEB

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POSTE

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CAIXA COLETOIRA

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CADASTRO CIL OVIA/CALÇA EXISTENTE

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CADASTRO BUEIRO

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CALHA

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CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

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CONVÊNCÕES

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ELEMENTOS DE CURVA (VER EM RELATÓRIO A PARTE)

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COORDENADAS UTM SIRGAS 2000

| VÉRTICE | DESCRIÇÃO  | NORTE      | ESTE        | ALTITUDE |
|---------|------------|------------|-------------|----------|
| BRAZ    | REFERÊNCIA | 191901.219 | 8234747.340 | 1118.330 |
| QA-1    | BASE       | 199673.440 | 8247359.410 | 1112.623 |
| QA-2    | MARCO      | 199916.222 | 8247674.201 | 1114.707 |
| Q2      | PIQUETE    | 199004.947 | 8246448.897 | 1104.344 |
| Q1      | PIQUETE    | 199200.473 | 8246716.290 | 1104.480 |
| P1      | PIQUETE    | 199914.140 | 8250163.316 | 1078.405 |
| P2      | PIQUETE    | 200033.004 | 8250229.087 | 1078.759 |

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DEPARTAMENTO DE ESTRADAS DE RODAGEM DO DISTRITO FEDERAL

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PROJETO GEOMÉTRICO DE DUPLICAÇÃO

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PLANTA E PERFIL

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DF-001- ESTACAS 0+000 A 5+316

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ETAPA DE PROJETO

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EXECUTIVO

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ETAPA DE PROJETO

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EXECUTIVO

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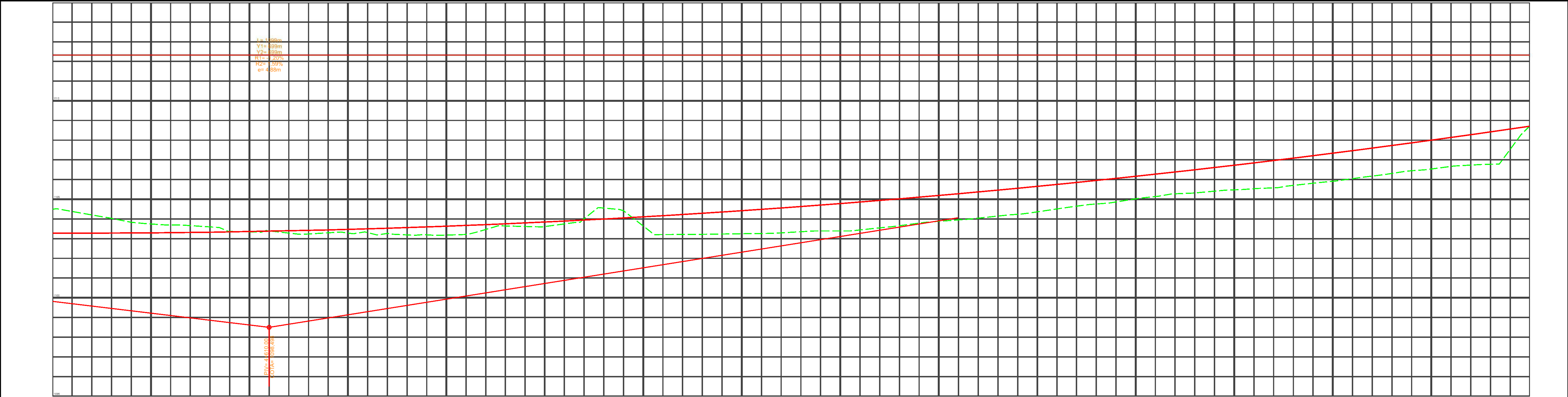
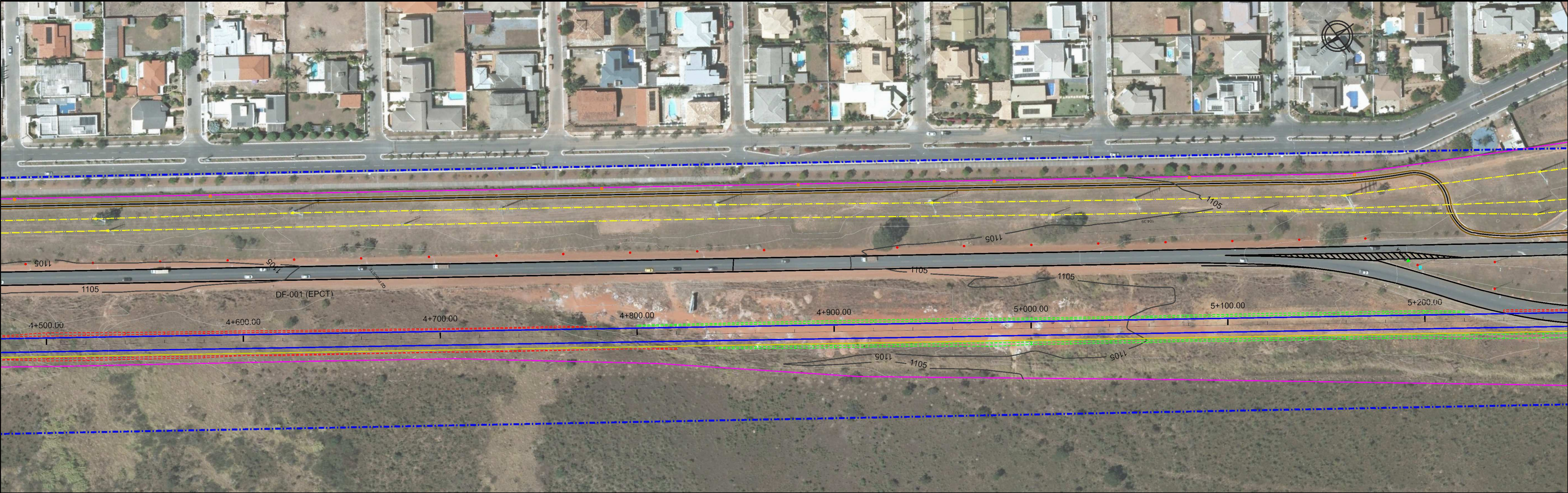












| ESTACA  | 4+500    | 4+520    | 4+540    | 4+560    | 4+580    | 4+600    | 4+620    | 4+640    | 4+660    | 4+680    | 4+700    | 4+720    | 4+740    | 4+760    | 4+780    | 4+800    | 4+820    | 4+840    | 4+860    | 4+880    | 4+900    | 4+920    | 4+940    | 4+960    | 4+980    | 5+000    | 5+020    | 5+040    | 5+060    | 5+080    | 5+100    | 5+120    | 5+140    | 5+160    | 5+180    | 5+200    | 5+220    | 5+240    |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| TERRENO | 1104.489 | 1104.204 | 1103.831 | 1103.653 | 1103.597 | 1103.345 | 1103.282 | 1103.297 | 1103.307 | 1103.189 | 1103.182 | 1103.467 | 1103.619 | 1103.746 | 1104.553 | 1103.643 | 1103.211 | 1103.235 | 1103.262 | 1103.352 | 1103.391 | 1103.549 | 1103.787 | 1103.952 | 1104.146 | 1104.381 | 1104.648 | 1104.862 | 1105.137 | 1105.319 | 1105.478 | 1105.579 | 1105.813 | 1106.046 | 1106.536 | 1106.311 | 1106.734 | 1107.533 |
| PROJETO | 1099.394 | 1099.228 | 1099.082 | 1098.896 | 1098.731 | 1098.595 | 1098.688 | 1099.005 | 1099.222 | 1099.639 | 1099.996 | 1100.274 | 1100.591 | 1100.898 | 1101.225 | 1101.542 | 1101.859 | 1102.176 | 1102.493 | 1102.810 | 1103.127 | 1103.444 | 1103.762 | 1104.079 | 1104.396 | 1104.713 | 1105.030 | 1105.347 | 1105.664 | 1105.981 | 1106.298 | 1106.615 | 1106.932 | 1107.249 | 1107.567 | 1107.884 | 1108.201 | 1108.518 |

PROJETO GEOMÉTRICO

0+1000.00

---

EIXO PROJETADO

---

BORDO PROJETADO

---

OFFSEI DE ATERRO

---

OFFSEI DE CORTE

---

PERFIL LONGITUDINAL PROJETADO

---

PERFIL LONGITUDINAL DO TERRENO NATURAL

---

FAIXA DE DOMÍNIO

---

ACOSTAMENTO PROJETADO

100m

---

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

100m

---

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

CONVÊNCÕES

⊙

ELEMENTOS DE CURVA (VER EM RELATÓRIO A PARTE)

---

CADASTRO VIA EXISTENTE

---

CERCA

---

REDE DE ALTA TENSÃO

---

REDE CEB

---

POSTE

---

CAIXA COLETOIRA

---

CADASTRO CICLOVAIC/CADEA EXISTENTE

---

CADASTRO BUEIRO

---

CALHA

LEVANT. TOPOGRÁFICO

---

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

---

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

COORDENADAS UTM SIRGAS 2000

| VÉRTICE | DESCRIÇÃO  | NORTE      | ESTE        | ALTITUDE |
|---------|------------|------------|-------------|----------|
| BRAZ    | REFERÊNCIA | 191901.219 | 8234747.340 | 1118.330 |
| QA-1    | BASE       | 199673.440 | 8247359.410 | 1112.623 |
| QA-2    | MARCO      | 199916.222 | 8247674.201 | 1114.707 |
| Q2      | PIQUETE    | 199004.947 | 8246448.897 | 1104.344 |
| Q1      | PIQUETE    | 199200.473 | 8246716.290 | 1104.480 |
| P1      | PIQUETE    | 199914.140 | 8250163.316 | 1078.405 |
| P2      | PIQUETE    | 200033.004 | 8250229.087 | 1078.759 |

DEPARTAMENTO DE ESTRADAS DE RODAGEM DO DISTRITO FEDERAL

DER

DF

PROJETO GEOMÉTRICO DE DUPLICAÇÃO

PLANTA E PERFIL

DF-001- ESTACAS 0+000 A 5+316

ETAPA DE PROJETO

EXECUTIVO

RODOVIA

DF-001

RECOR

001EDF0110

ESCALA HV

1:1.000

SUBTRECHO

km 20 ao km 25

FOLHA

07/08

CÓDIGO

DE\_VD\_DF001-020025\_E-GE\_321

RESP. PROJ.

PLÍNIO FRAGASSI

CREA

ES-431/D-MG

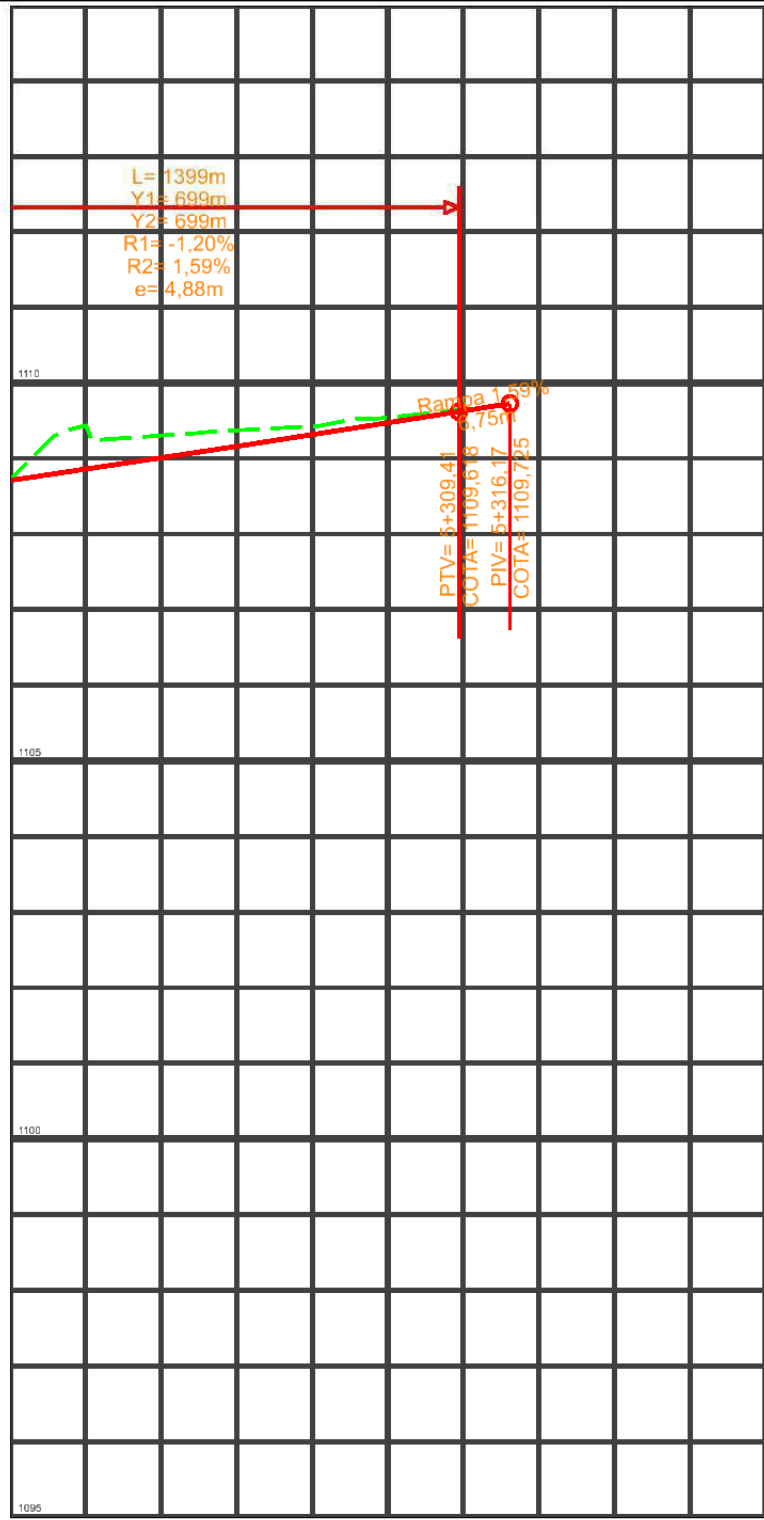
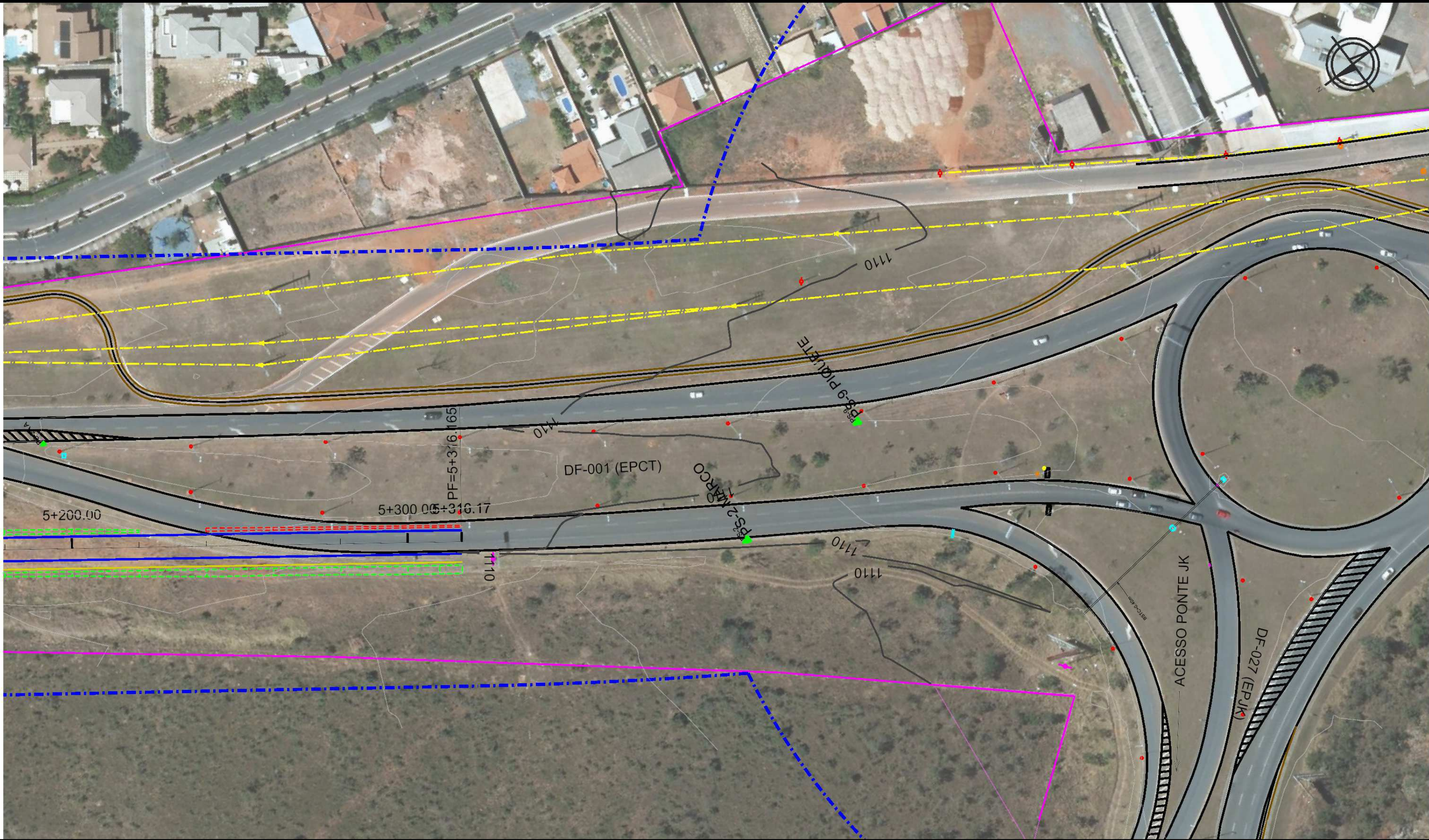
SETOR

SUTEC

DESENHO

MATRICULA





|         |                     |                     |                     |       |       |       |
|---------|---------------------|---------------------|---------------------|-------|-------|-------|
| ESTACA  | 5+260               | 5+280               | 5+300               | 5+320 | 5+340 | 5+350 |
| TERRENO | 1108.835 - 1109.435 | 1109.371 - 1109.371 | 1109.540 - 1109.540 |       |       |       |
| PROJETO | 1108.835 - 1109.435 | 1109.152 - 1109.371 | 1109.469 - 1109.540 |       |       |       |

CONVÊNCÕES

(C) ELEMENTOS DE CURVA (VER EM RELATÓRIO A PARTE)

LEVANT. TOPOGRÁFICO

- CADASTRO VIA EXISTENTE
- CERCA
- REDE DE ALTA TENSÃO
- REDE CEB
- POSTE
- CAIXA COLETOIRA
- CADASTRO CIL/CAVALCADA EXISTENTE
- CADASTRO BUEIRO
- CALHA

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

COORDENADAS UTM SIRGAS 2000

| VÉRTICE | DESCRIÇÃO  | NORTE      | ESTE        | ALTITUDE |
|---------|------------|------------|-------------|----------|
| BRAZ    | REFERÊNCIA | 191901.219 | 8234747.340 | 1118.330 |
| QA-1    | BASE       | 199673.440 | 8247359.410 | 1112.623 |
| QA-2    | MARCO      | 199916.222 | 8247674.201 | 1114.707 |
| Q2      | PIQUETE    | 199004.947 | 8246448.897 | 1104.344 |
| Q1      | PIQUETE    | 199200.473 | 8246716.290 | 1104.480 |
| P1      | PIQUETE    | 199914.140 | 8250163.316 | 1078.405 |
| P2      | PIQUETE    | 200033.004 | 8250229.087 | 1078.759 |

PROJETO GEOMÉTRICO

- EIXO PROJETADO
- BORDO PROJETADO
- OFFSET DE ATERRO
- OFFSET DE CORTE
- PERFIL LONGITUDINAL PROJETADO
- PERFIL LONGITUDINAL DO TERRENO NATURAL
- FAIXA DE DOMÍNIO
- ACOSTAMENTO PROJETADO

CURVA DE NÍVEL COM EQUIDISTÂNCIA VERTICAL DE METRO EM METRO

|                                                         |           |                                                  |                  |
|---------------------------------------------------------|-----------|--------------------------------------------------|------------------|
| DEPARTAMENTO DE ESTRADAS DE RODAGEM DO DISTRITO FEDERAL |           |                                                  |                  |
|                                                         |           | PROJETO GEOMÉTRICO DE DUPLICAÇÃO PLANTA E PERFIL |                  |
|                                                         |           | DF-001- ESTACAS 0+000 A 5+316                    |                  |
| ETAPA DE PROJETO                                        | RODOVIA   | REGR                                             | RESP. TEC.       |
| EXECUTIVO                                               | DF-001    | 001EDF0110                                       | PLÍNIO FRAGASSI  |
| ESCALA HV                                               | SUBTRECHO | km 20 ao km 25                                   | CREA 08.431/D-MG |
| 1:1.000                                                 |           |                                                  | SETOR: SUTEC     |
| FOLHA                                                   | CÓDIGO    | DE_VD_DF001-020025_E-GE_321                      | DESENHO          |
| 08/08                                                   |           |                                                  | MATRICULA        |