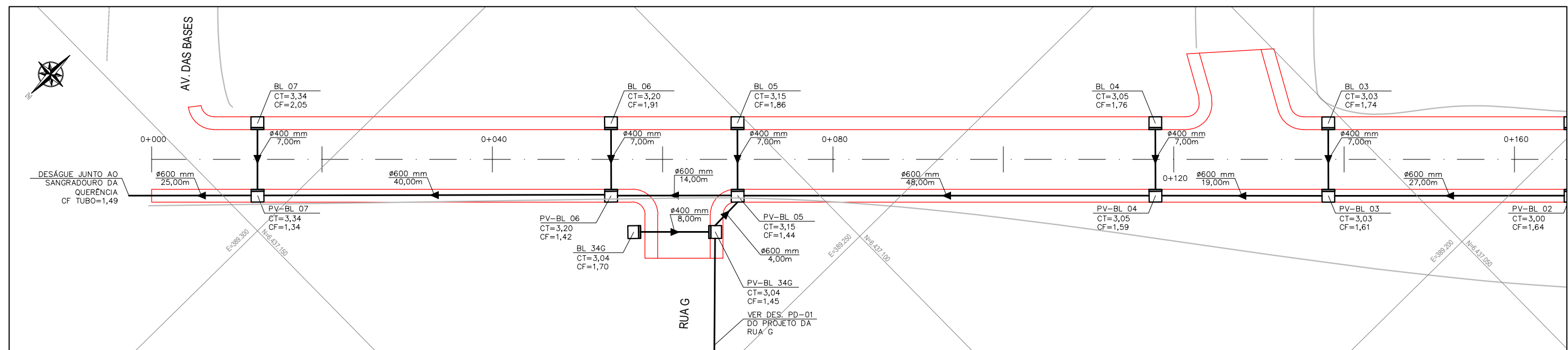
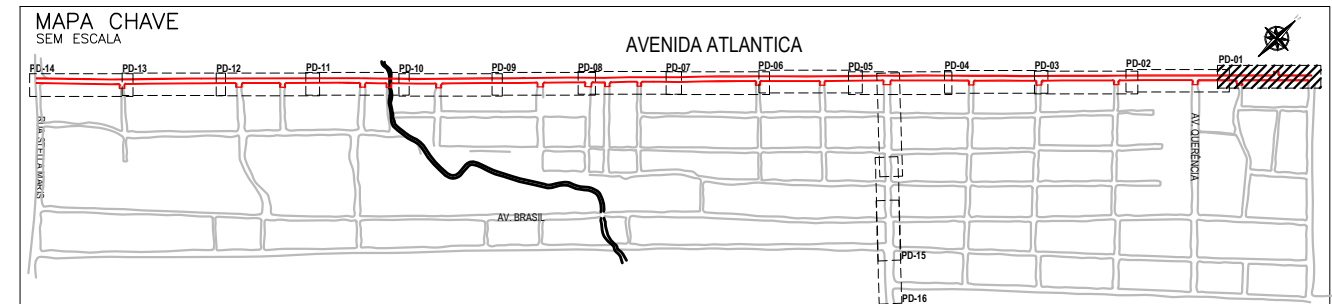
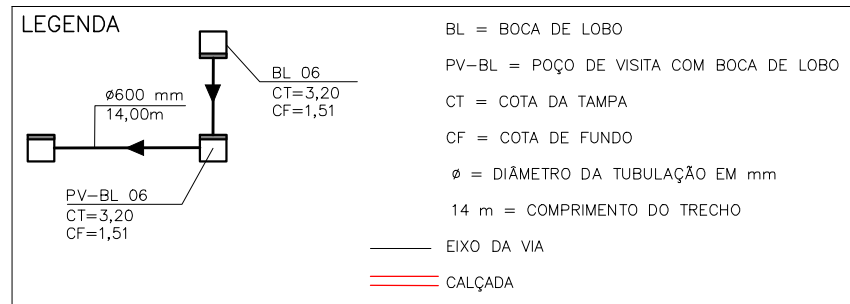


PERFIL LONGITUDINAL
ESCALA VERTICAL 1:50
ESCALA HORIZONTAL 1:500

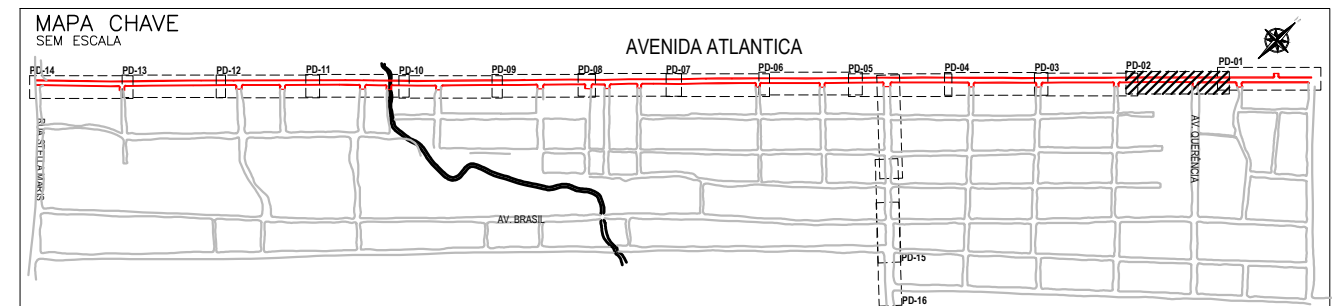
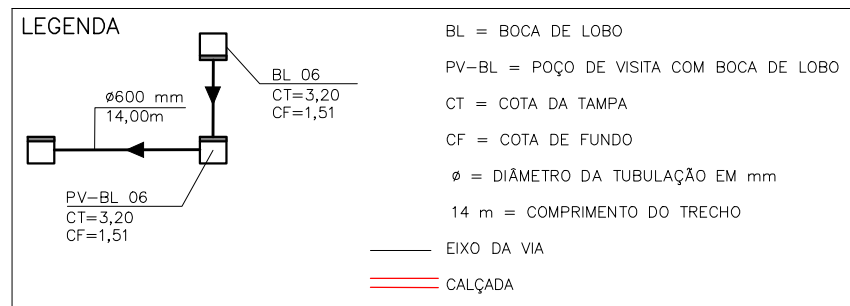
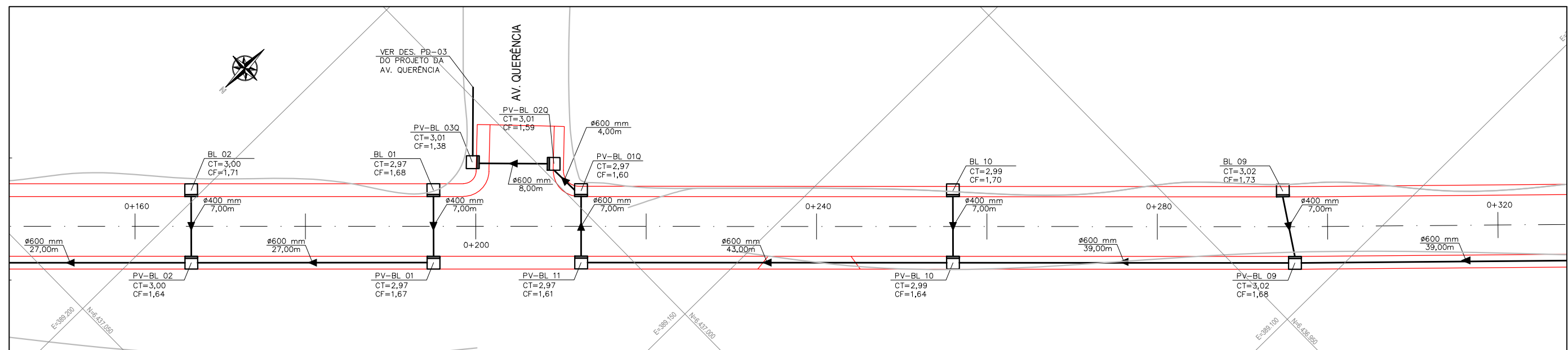
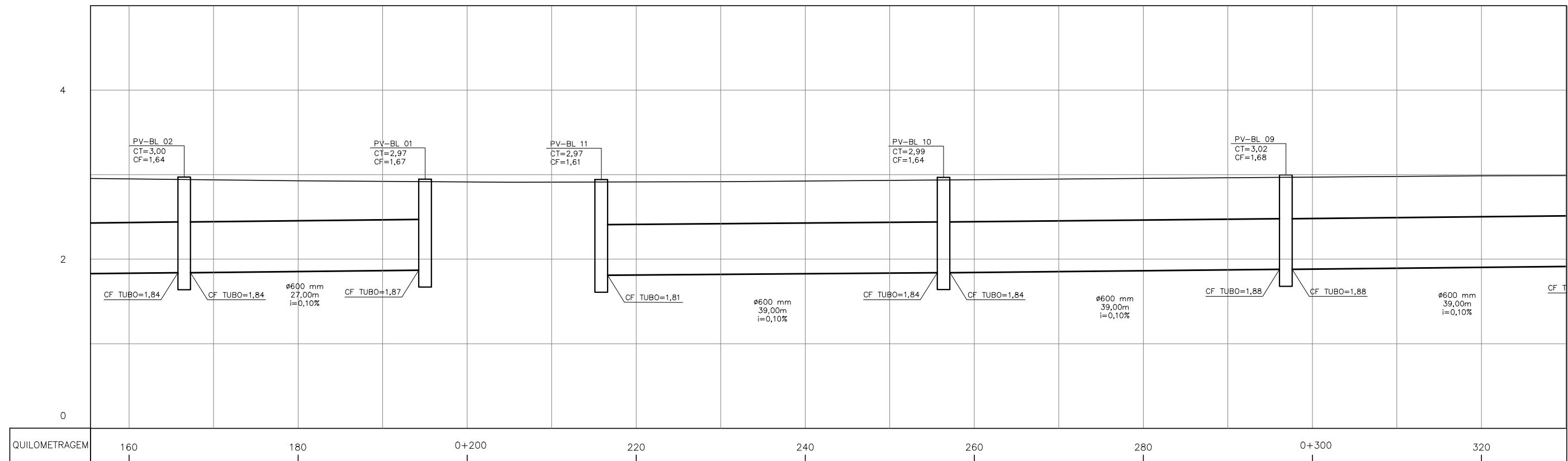


PLANTA BAIXA
ESCALA 1:500



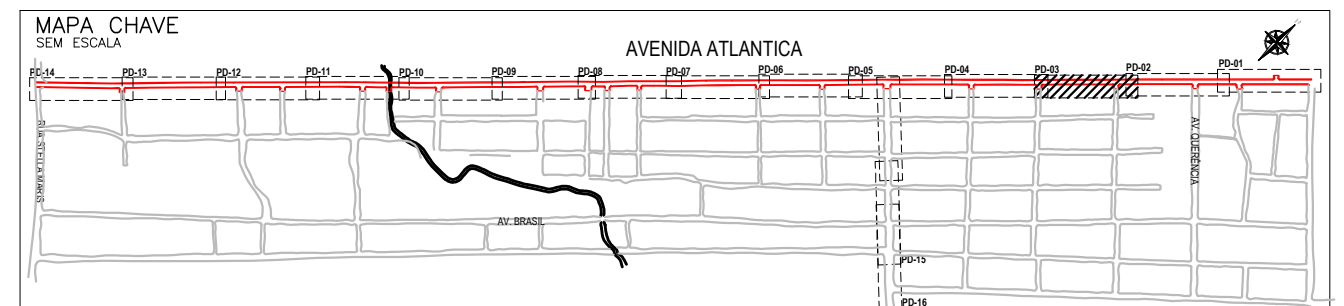
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|---|------------------------------------|------------------------------------|--|
| PROJETADO POR: | EQUIPE TÉCNICA | | |
| RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: | |
| ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | CYLLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 | |

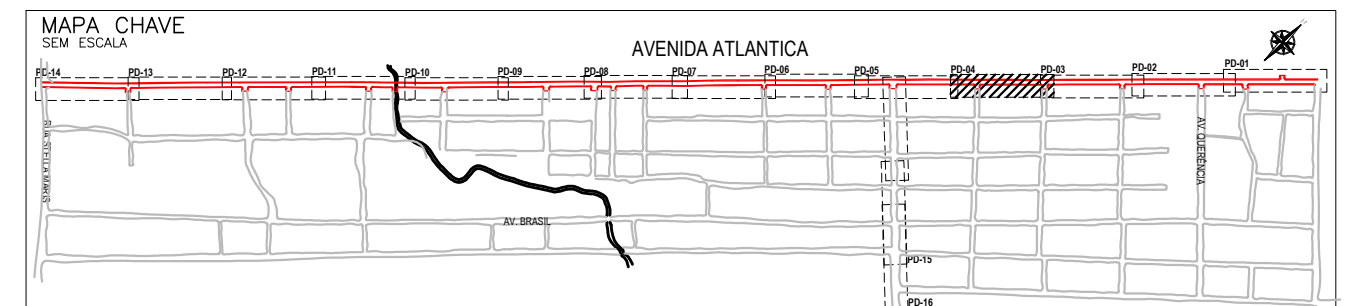
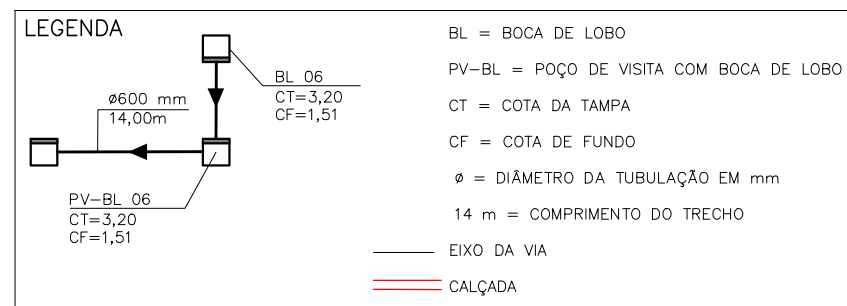
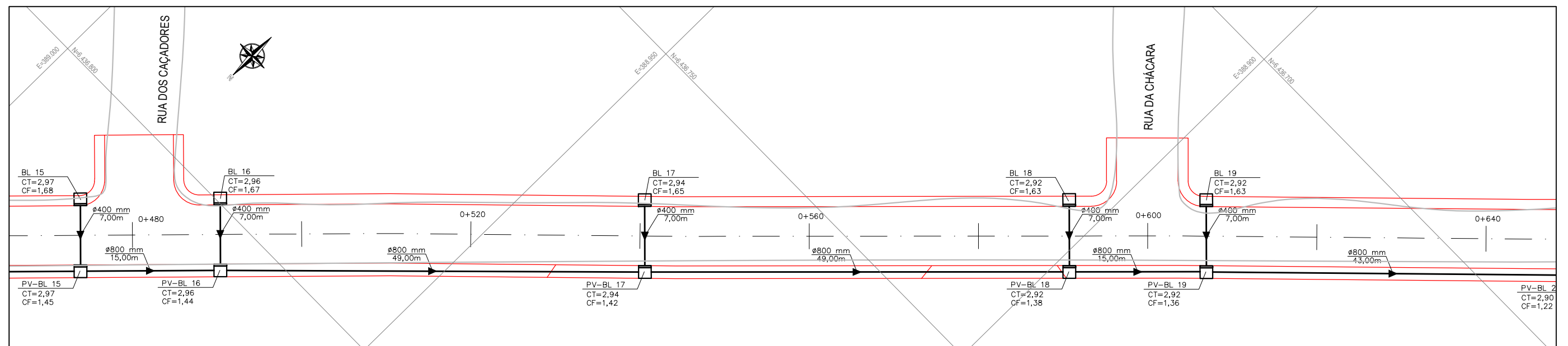
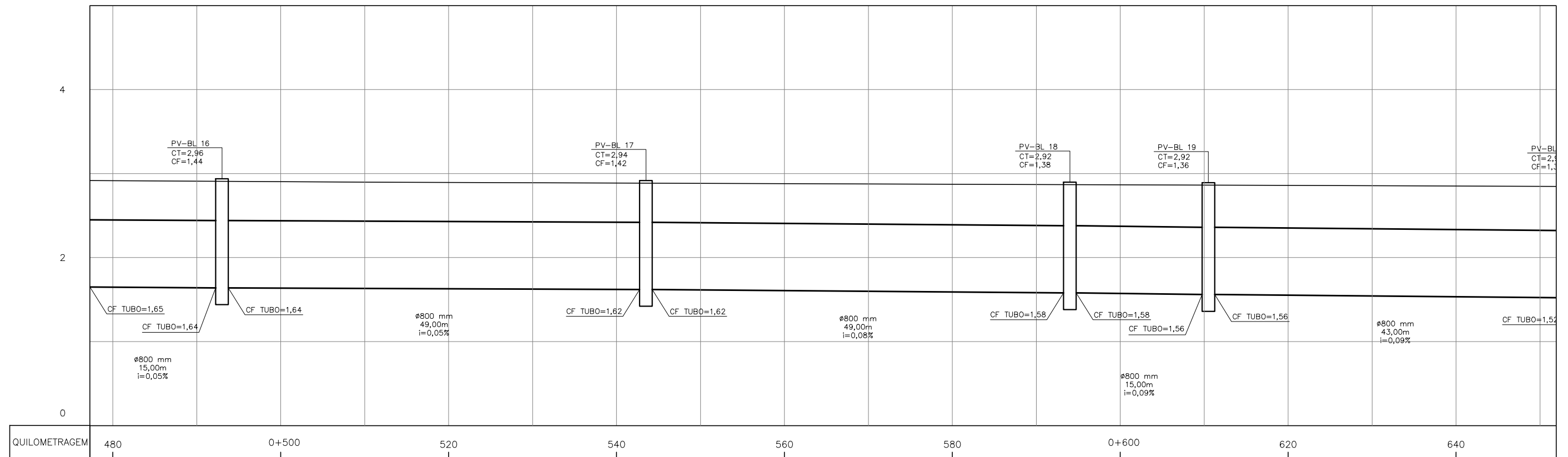
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| PREFEITURA MUNICIPAL DE RIO GRANDE | | |
| PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | |
| VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | |
| PROJETO DE DRENAGEM | | |
| AVENIDA ATLÂNTICA | | |
| km 0+000 ao km 0+160 | | |
| ESCALA: V = 1:50 H = 1:500 | DATA: AGOSTO/2015 | PRANCHA: PD-01 |

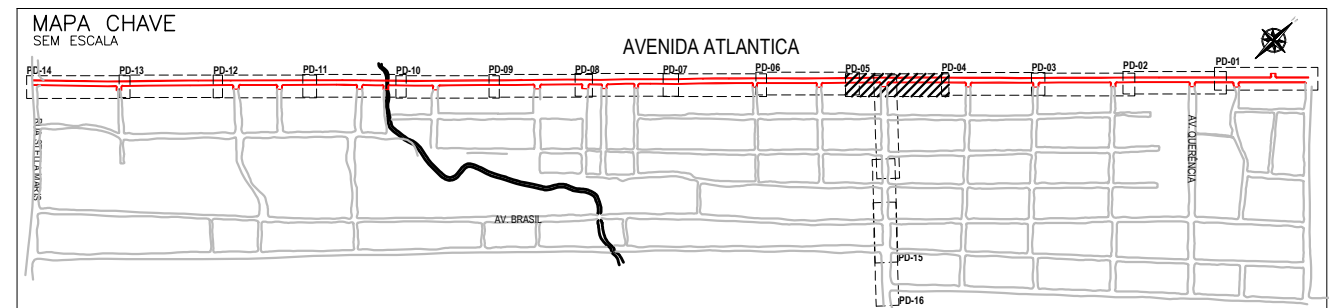
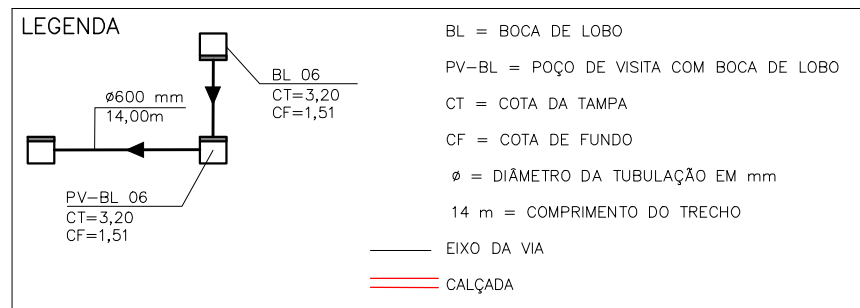
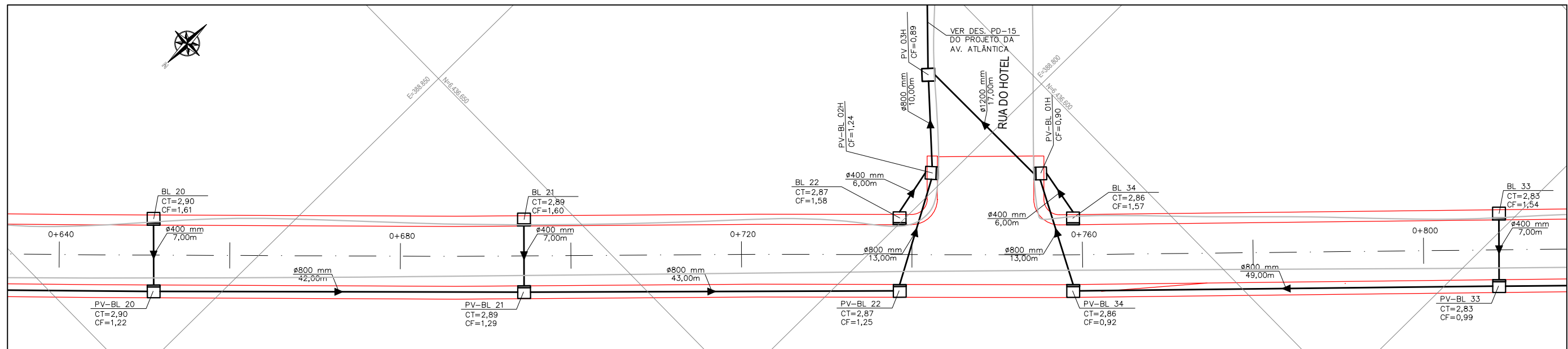
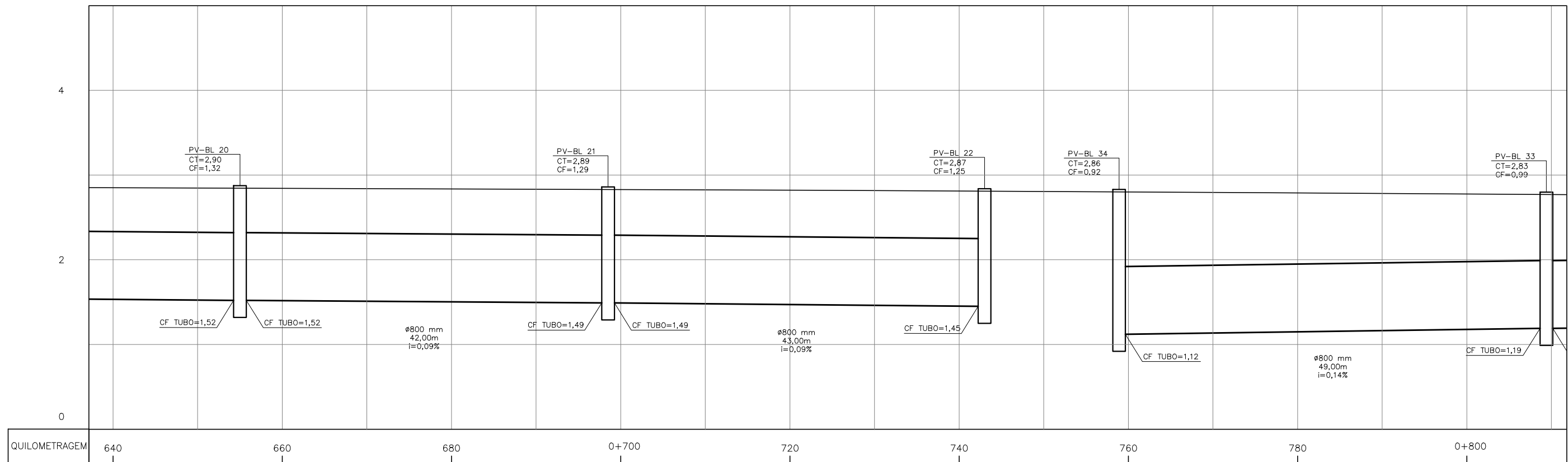


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| PROJETADO POR: | EQUIPE TÉCNICA | | |
| RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: | |
| ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | CYLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 | |

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| PREFEITURA MUNICIPAL DE RIO GRANDE | | |
| PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | |
| VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | |
| PROJETO DE DRENAGEM | | |
| AVENIDA ATLÂNTICA | | |
| km 0+160 ao km 0+320 | | |
| ESCALA: V = 1:50 H = 1:500 | DATA: AGOSTO/2015 | PRANCHA: PD-02 |

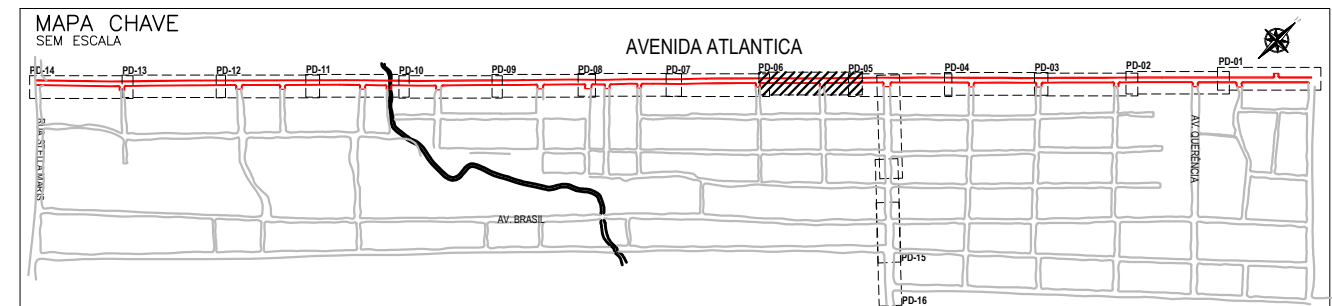
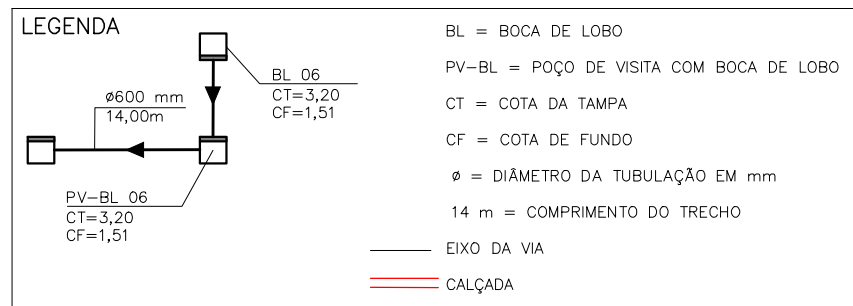
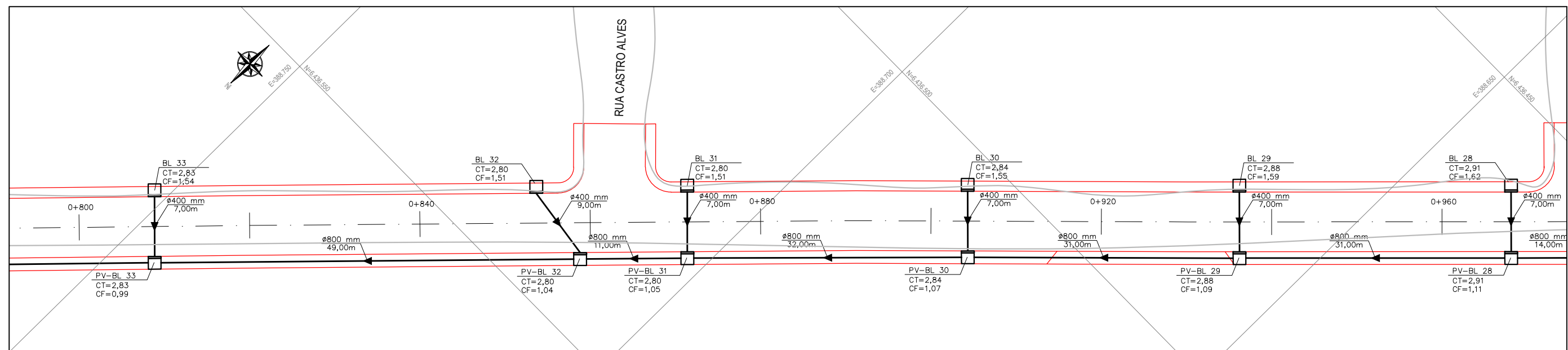
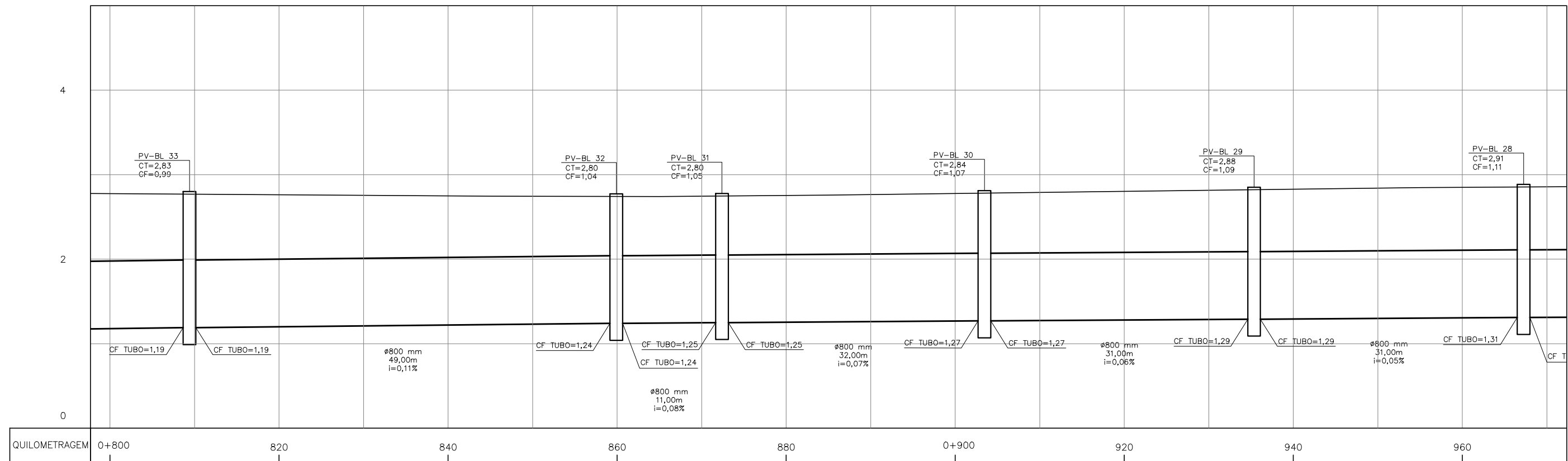






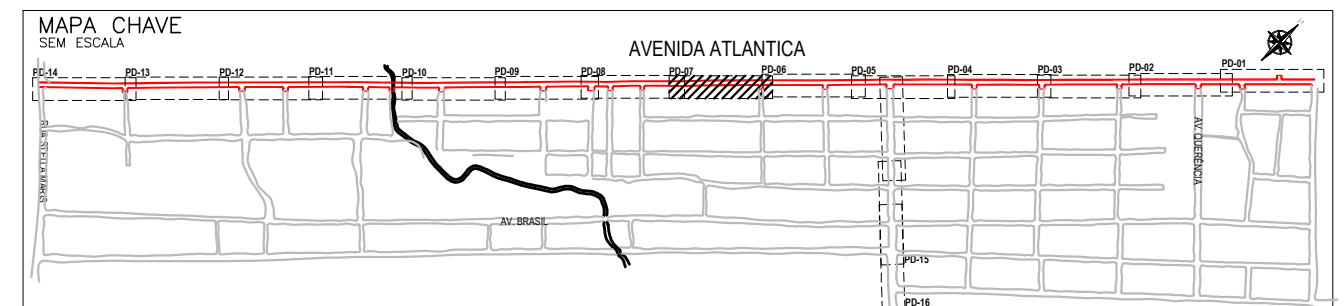
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|---|------------------------------------|------------------------------------|--|
| PROJETADO POR: | EQUIPE TÉCNICA | | |
| RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: | |
| ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | CYLLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 | |

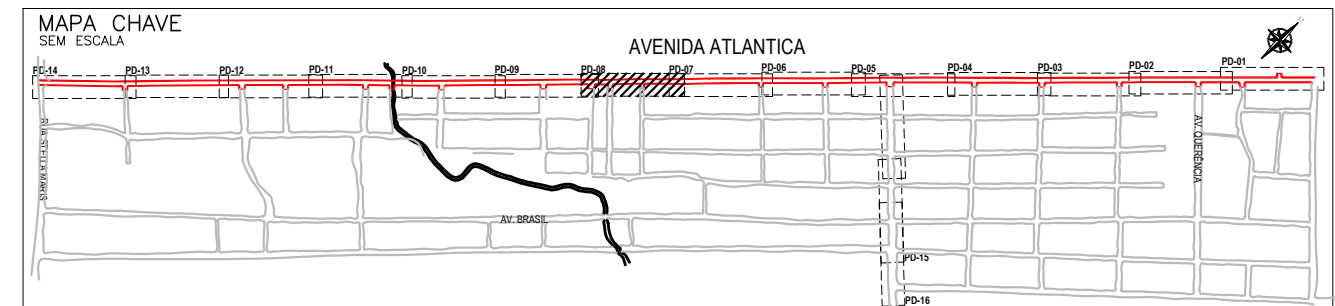
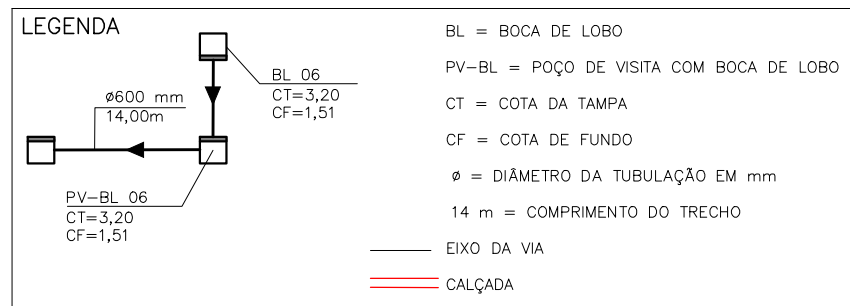
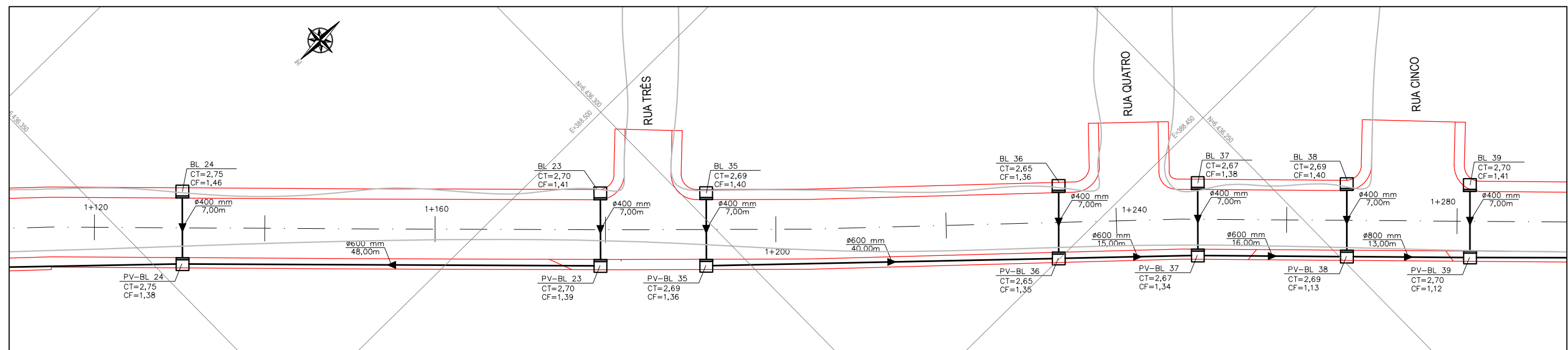
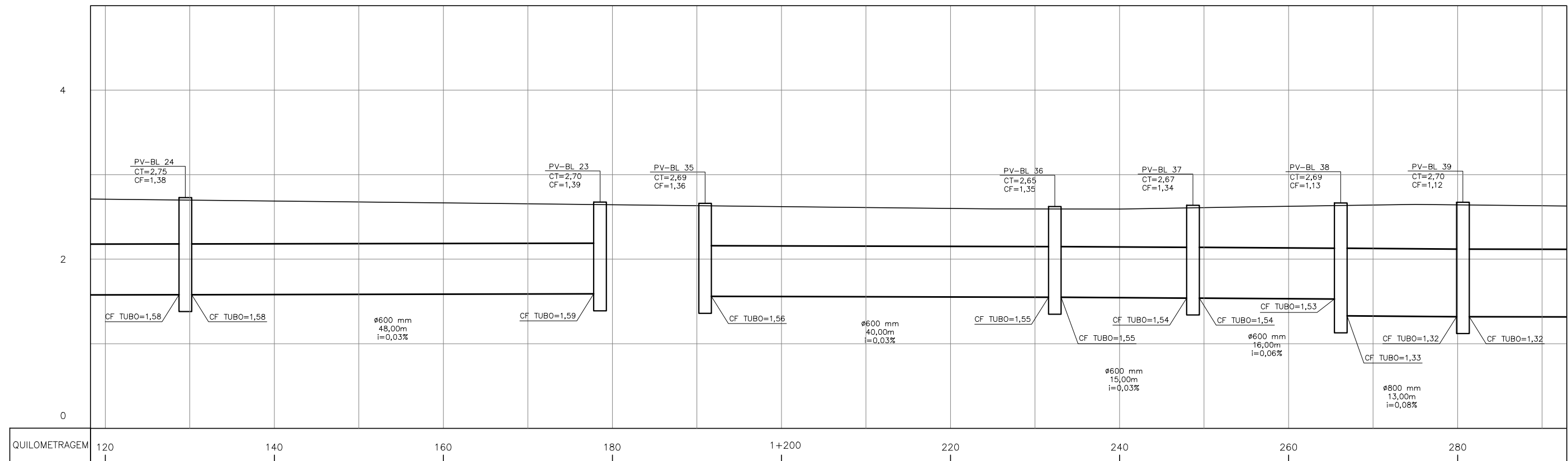
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| PREFEITURA MUNICIPAL DE RIO GRANDE | | |
| PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | |
| VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | |
| PROJETO DE DRENAGEM | | |
| AVENIDA ATLÂNTICA | | |
| km 0+640 ao km 0+800 | | |
| ESCALA: V = 1:50 H = 1:500 | DATA: AGOSTO/2015 | PRANCHA: PD-05 |




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| PROJETADO POR: | EQUIPE TÉCNICA | | |
| RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: | |
| ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | CYLLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 | |

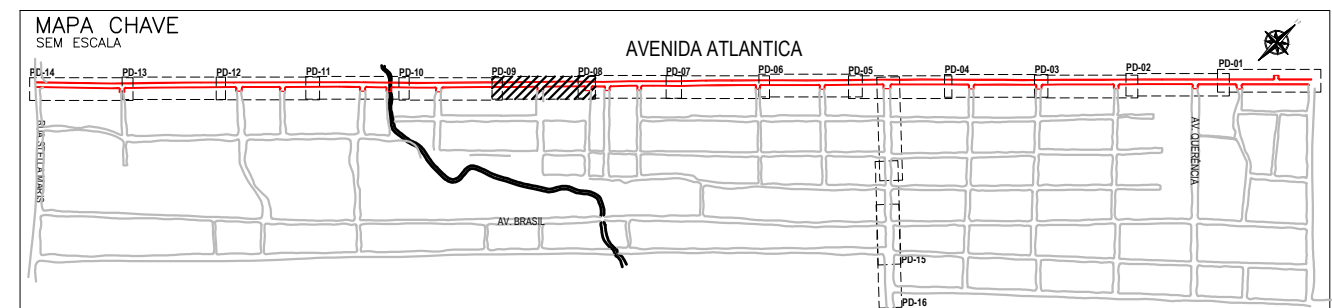
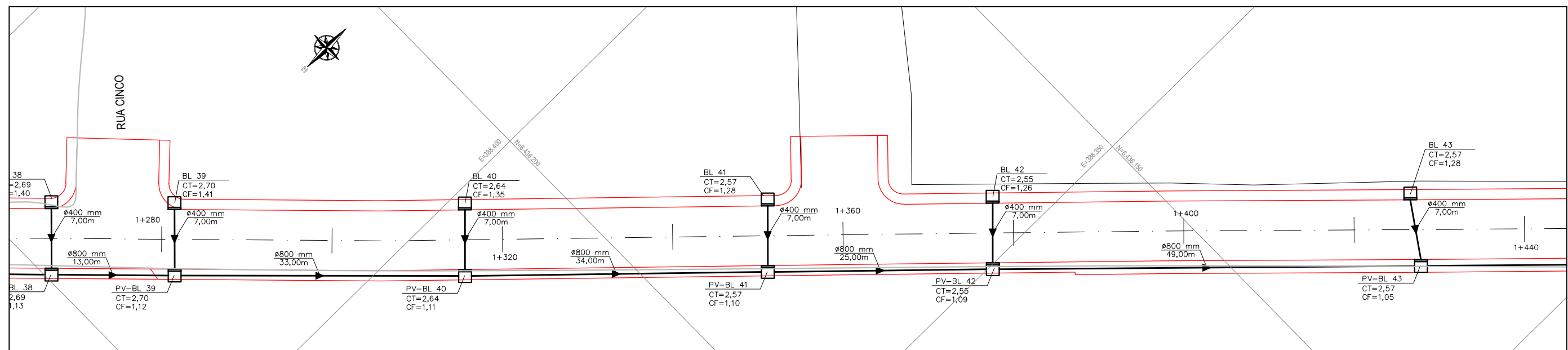
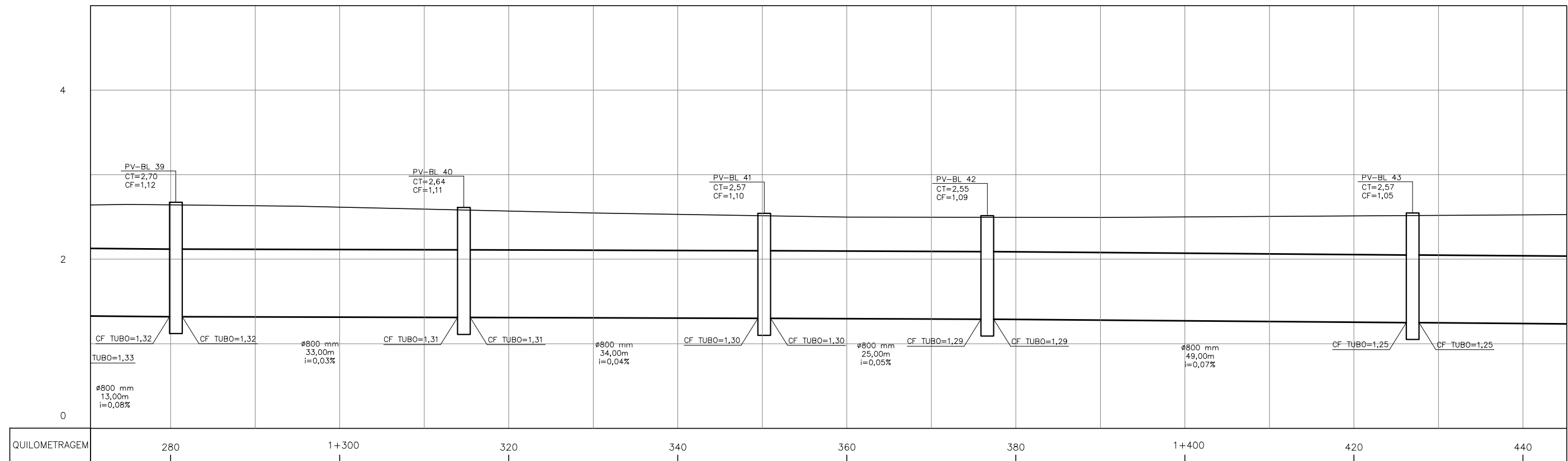
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| PREFEITURA MUNICIPAL DE RIO GRANDE | | |
| PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | |
| VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | |
| PROJETO DE DRENAGEM | | |
| AVENIDA ATLÂNTICA | | |
| km 0+800 ao km 0+960 | | |
| ESCALA: V = 1:50 H = 1:500 | DATA: AGOSTO/2015 | PRANCHA: PD-06 |





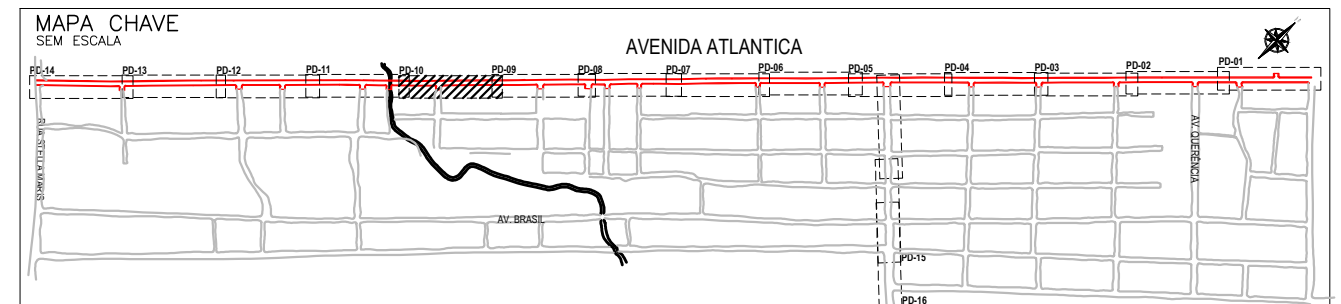
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| PROJETADO POR:  | EQUIPE TÉCNICA | | |
| | RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: |
| | ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | CYLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 |
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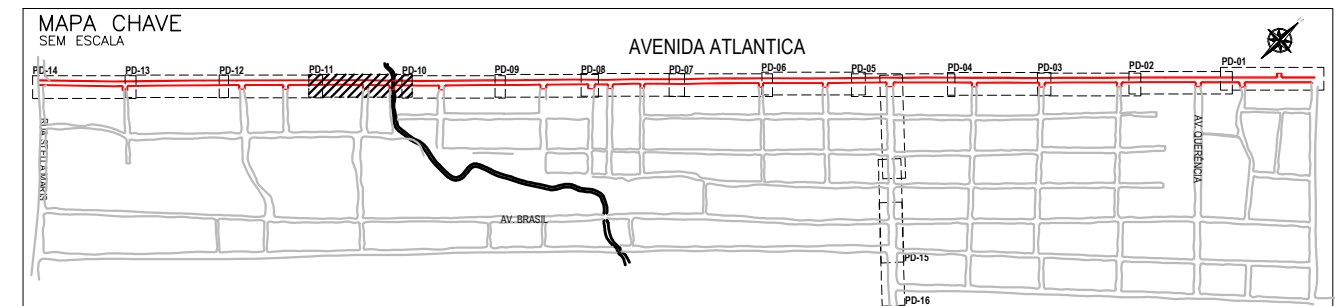
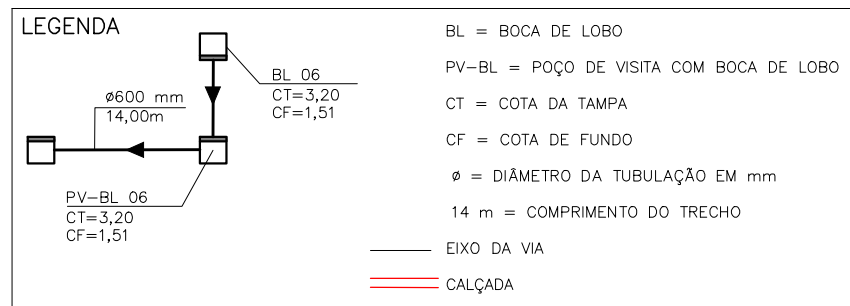
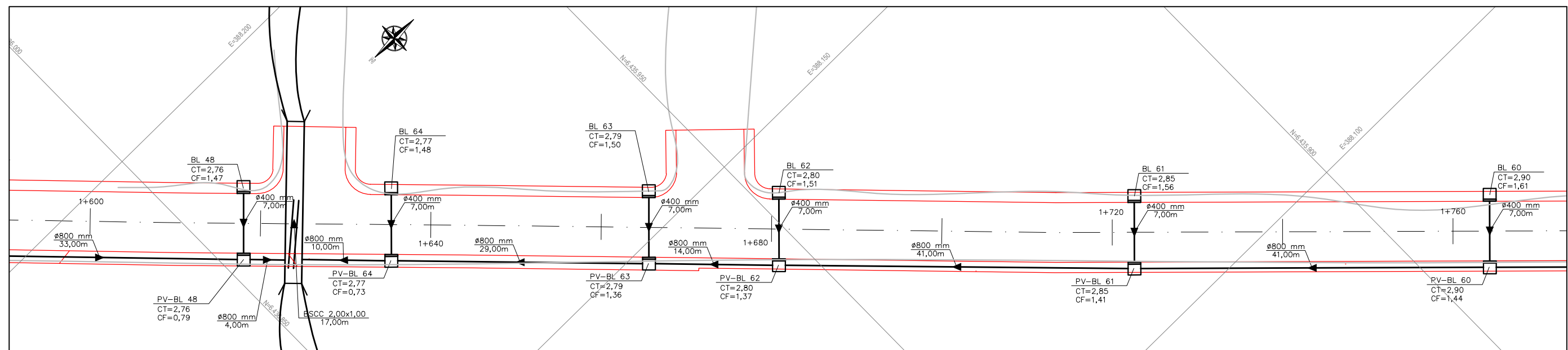
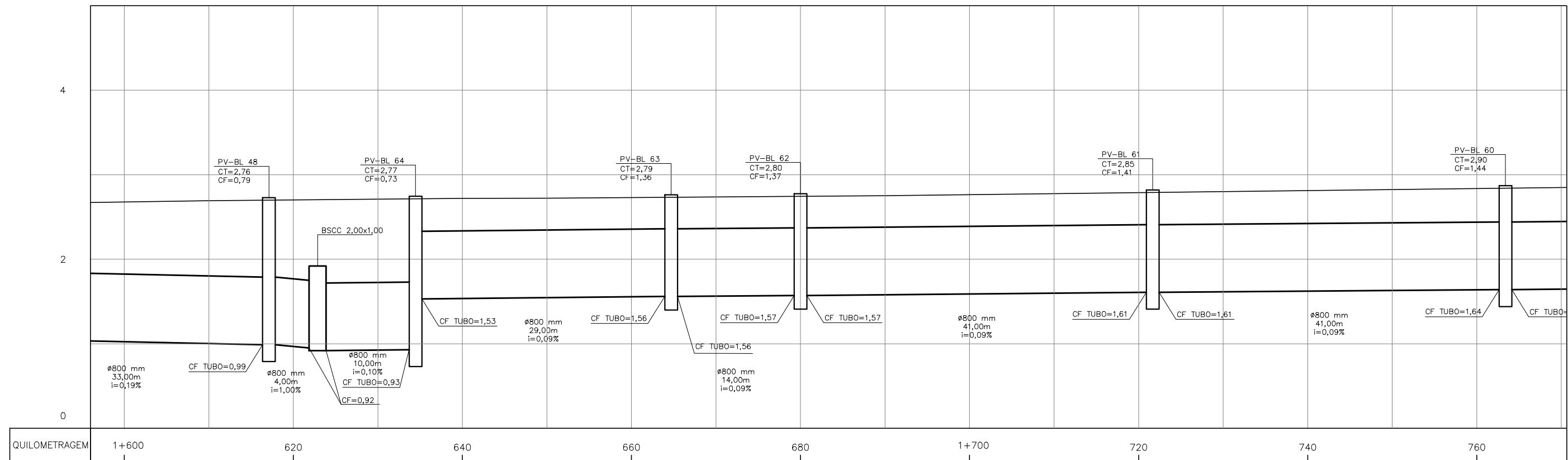
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|  | PREFEITURA MUNICIPAL DE RIO GRANDE | | ESCALA: |
| | PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | V = 1:50 |
| | VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | H = 1:500 |
| | PROJETO DE DRENAGEM | | DATA: |
| AVENIDA ATLÂNTICA | | PRANCHIA: | AGOSTO/2015 |
| km 1+120 ao km 1+280 | | | PD-08 |



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| PROJETADO POR: | | |
| EQUIPE TÉCNICA | | |
| RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: |
| ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | CYLLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 |

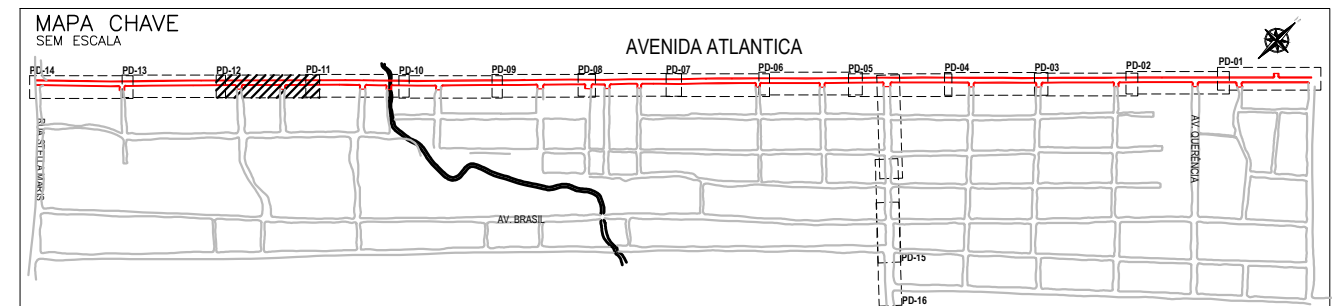
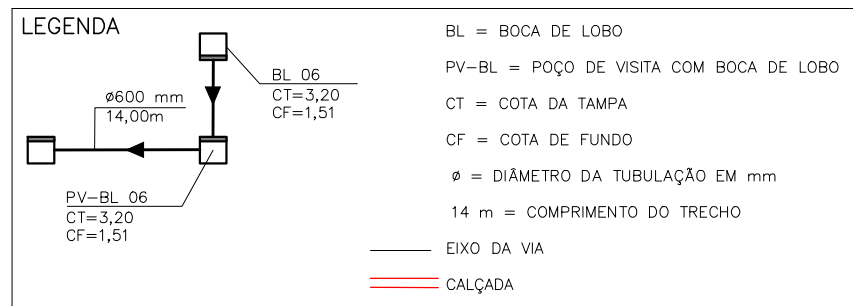
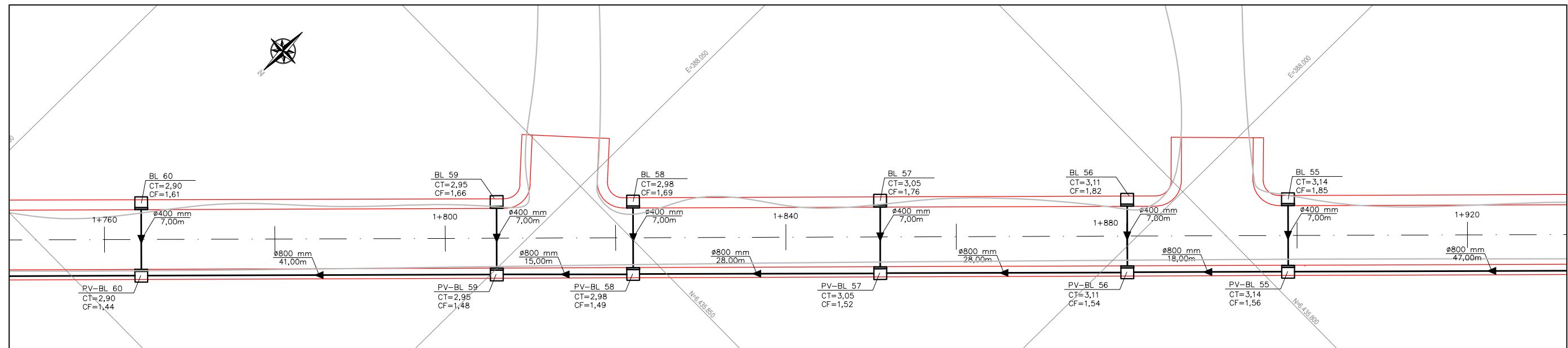
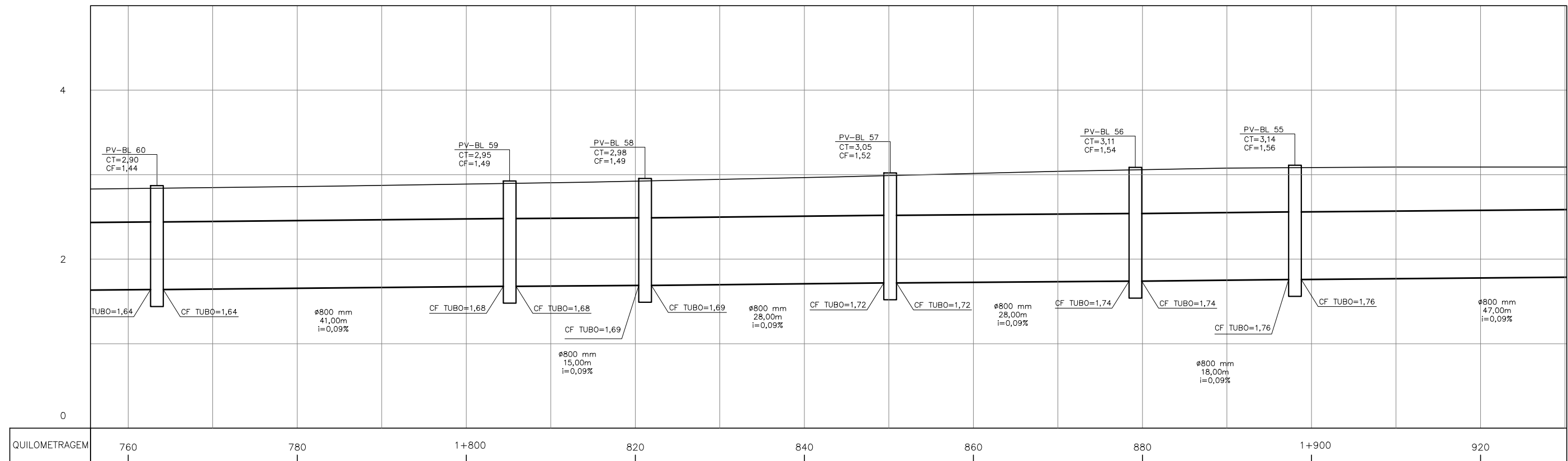
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| PREFEITURA MUNICIPAL DE RIO GRANDE | | |
| PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | |
| VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | |
| PROJETO DE DRENAGEM | | |
| AVENIDA ATLÂNTICA | | |
| km 1+280 ao km 1+440 | | |
| ESCALA: | V = 1:50 | H = 1:500 |
| DATA: | AGOSTO/2015 | |
| PRANCHA: | PD-09 | |





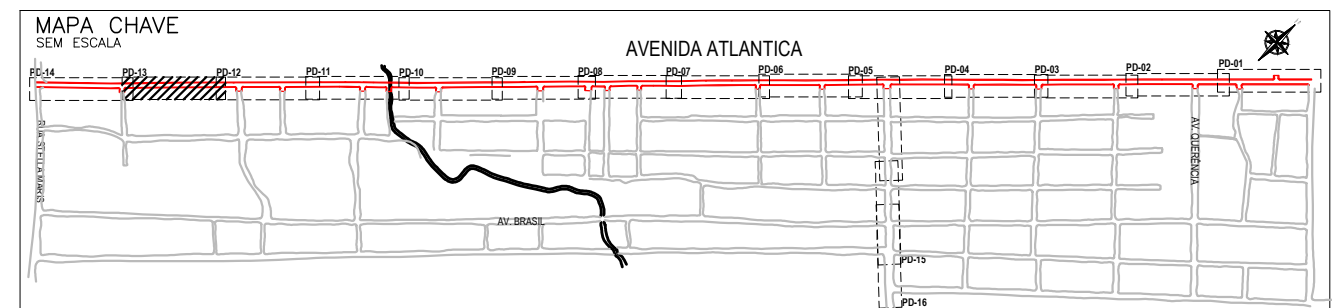
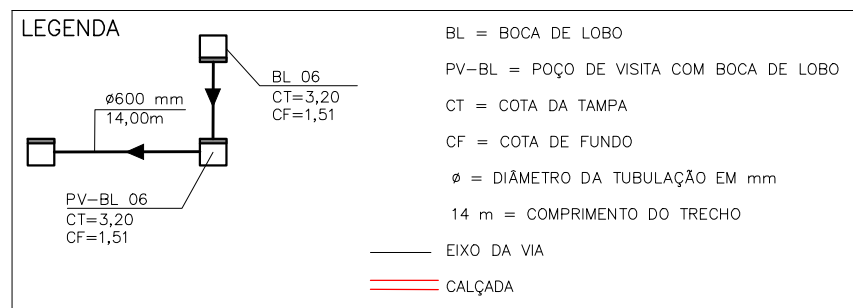
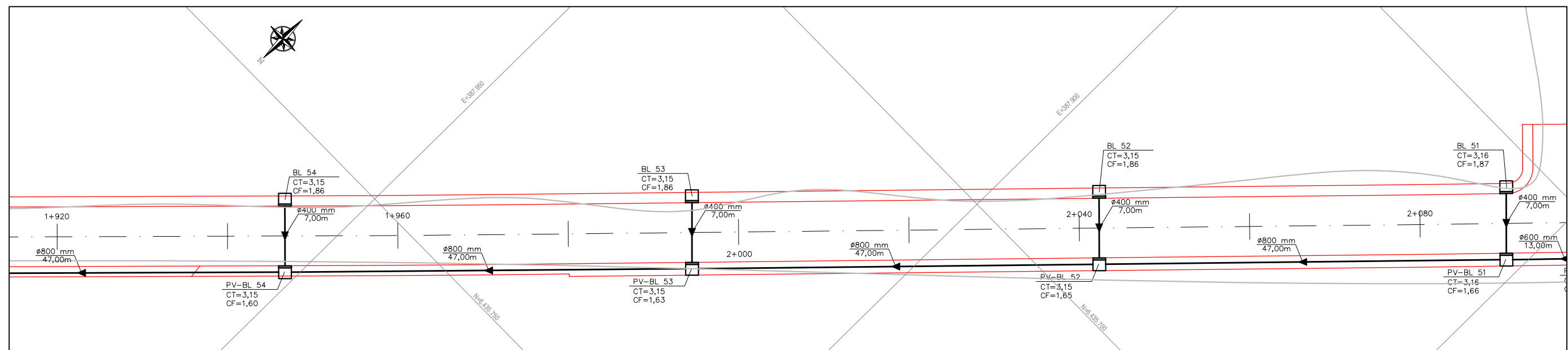
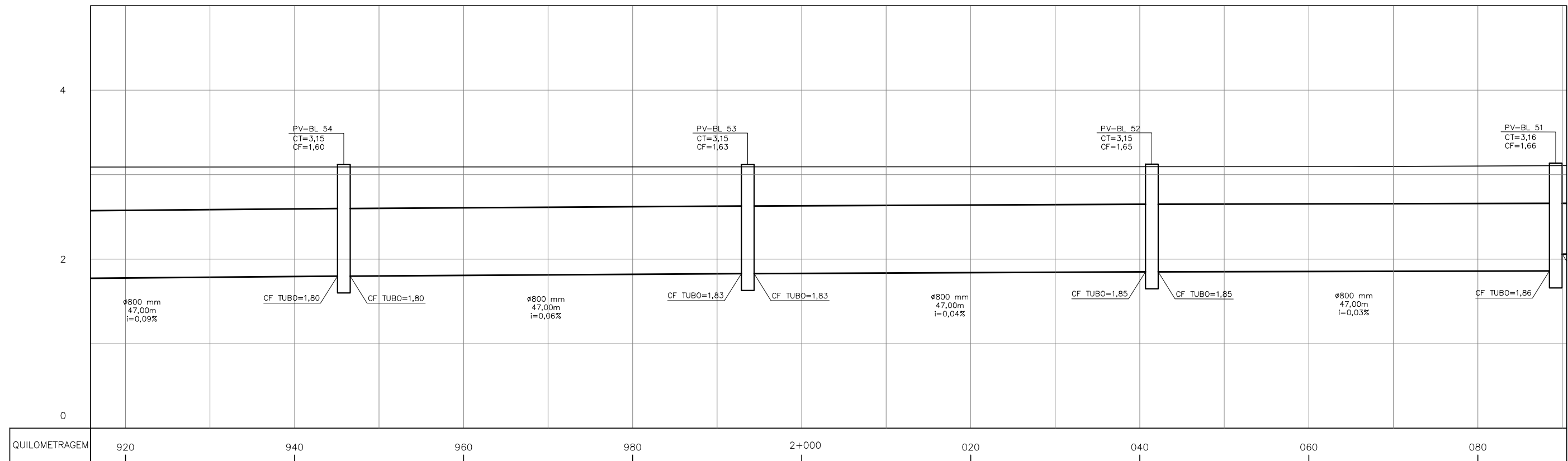
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| PROJETADO POR: | EQUIPE TÉCNICA | | |
| RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: | |
| ARISTÓTELES JOSÉ BOURSCHÉID CREA 9.409 | CYLLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 | |

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| PREFEITURA MUNICIPAL DE RIO GRANDE | | |
| PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | |
| VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | |
| PROJETO DE DRENAGEM | | |
| AVENIDA ATLÂNTICA | | |
| km 1+600 ao km 1+760 | | |
| ESCALA: V = 1:50 H = 1:500 | DATA: AGOSTO/2015 | PRANCHA: PD-11 |



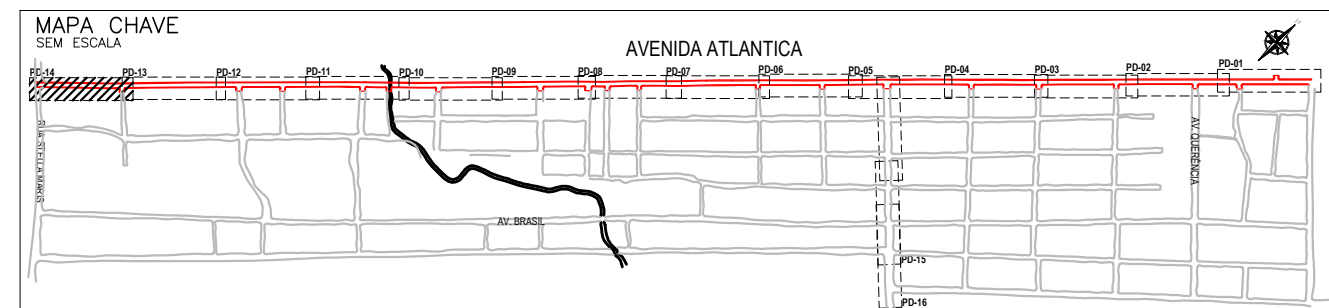
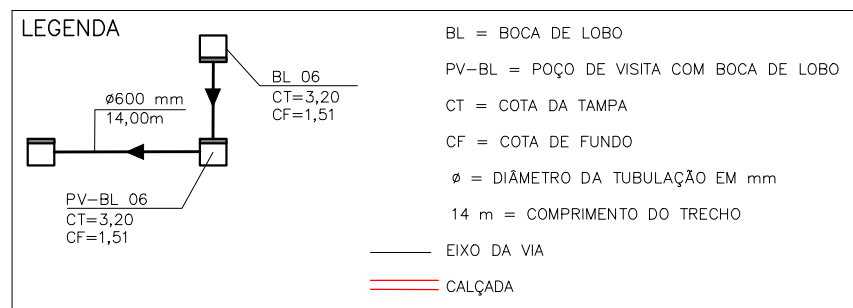
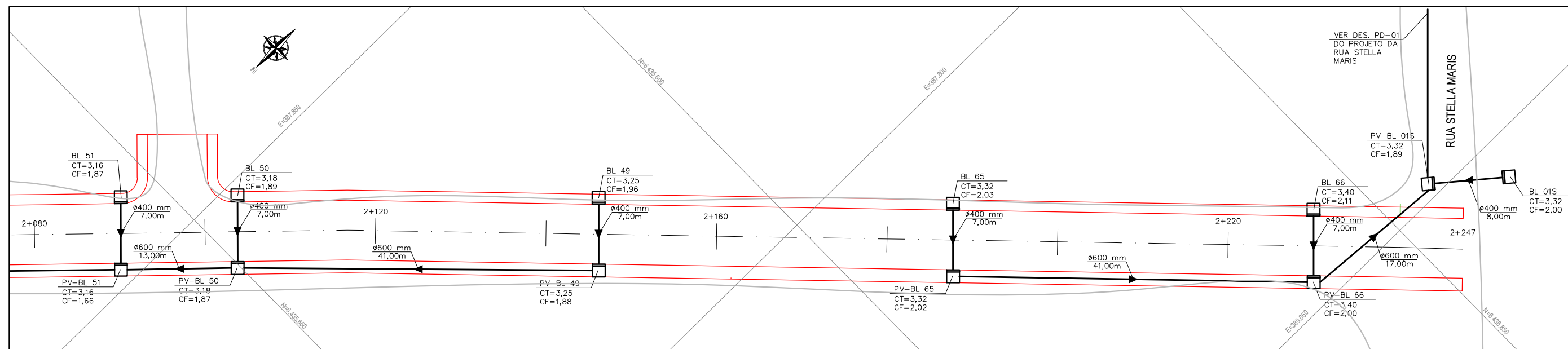
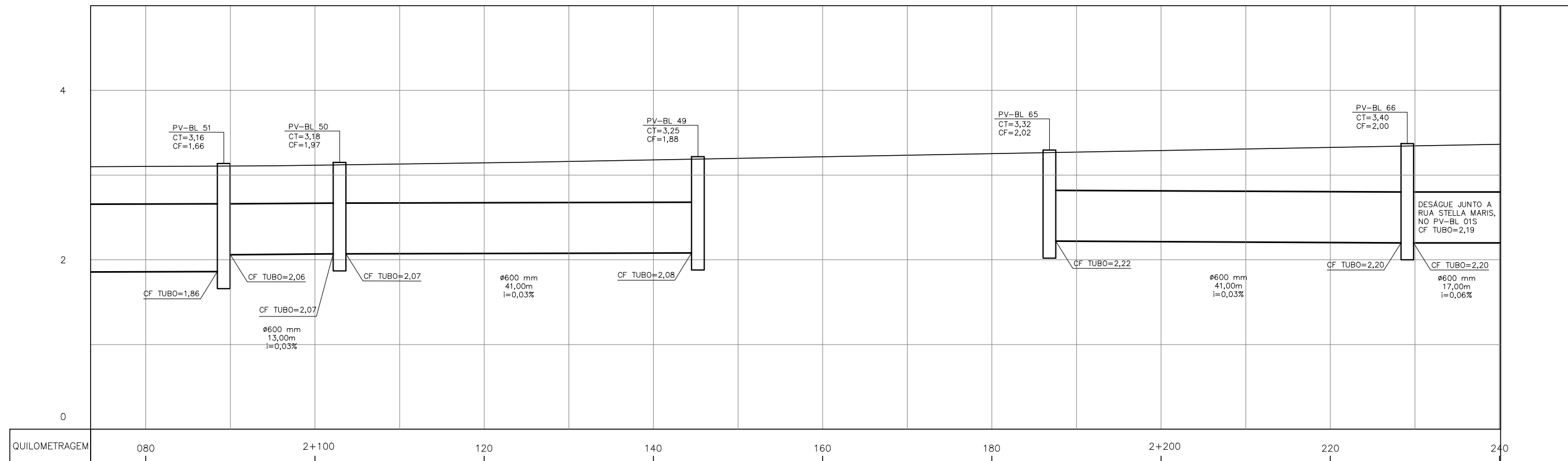
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| PROJETADO POR: | | | EQUIPE TÉCNICA | | | | | |
| RESPONSÁVEL TÉCNICO: | | | COORDENADOR: | | | PROJETISTA: | | |
| ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | | | CYLON F. ROSA NETO CREA 44.757 | | | NEY R. L. DA SILVA CREA 146.352 | | |

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| PREFEITURA MUNICIPAL DE RIO GRANDE | | | ESCALA: V = 1:50 H = 1:500 DATA: AGOSTO/2015 PRANCHA: PD-12 |
|  | PROJETOS DE INFRAESTRUTURA DE ENGENHARIA – FASE 1 | | |
| | VIAS ESTRUTURANTES – BALNEÁRIO CASSINO – RIO GRANDE/RS | | |
| | PROJETO DE DRENAGEM | | |
| | AVENIDA ATLÂNTICA | | |
| | km 1+760 ao km 1+920 | | |



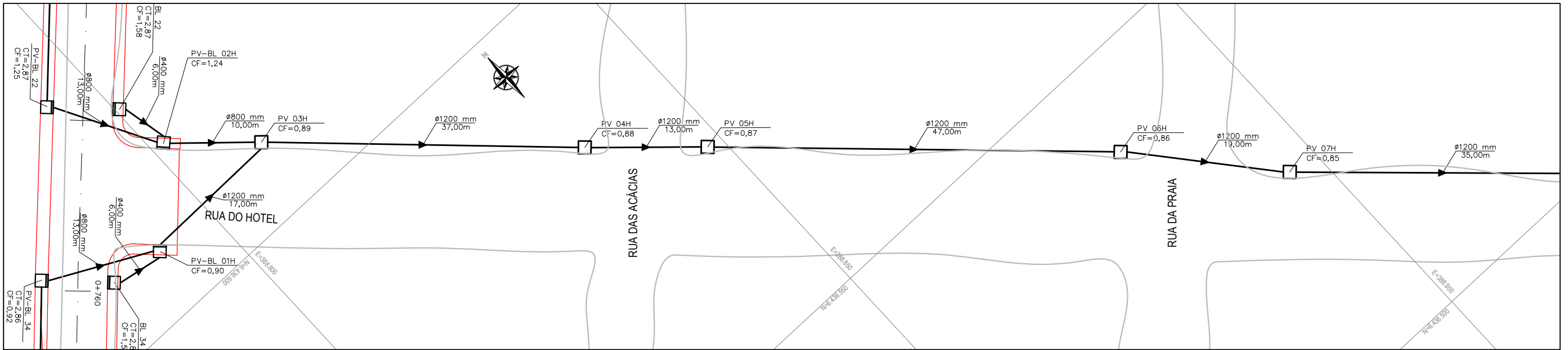
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| PROJETADO POR: | EQUIPE TÉCNICA | | |
| RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: | |
| ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | CYLLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 | |

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| PREFEITURA MUNICIPAL DE RIO GRANDE | | |
| PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | |
| VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | |
| PROJETO DE DRENAGEM | | |
| AVENIDA ATLÂNTICA | | |
| km 1+920 ao km 2+080 | | |
| ESCALA: V = 1:50 H = 1:500 | DATA: AGOSTO/2015 | PRANCHA: PD-13 |

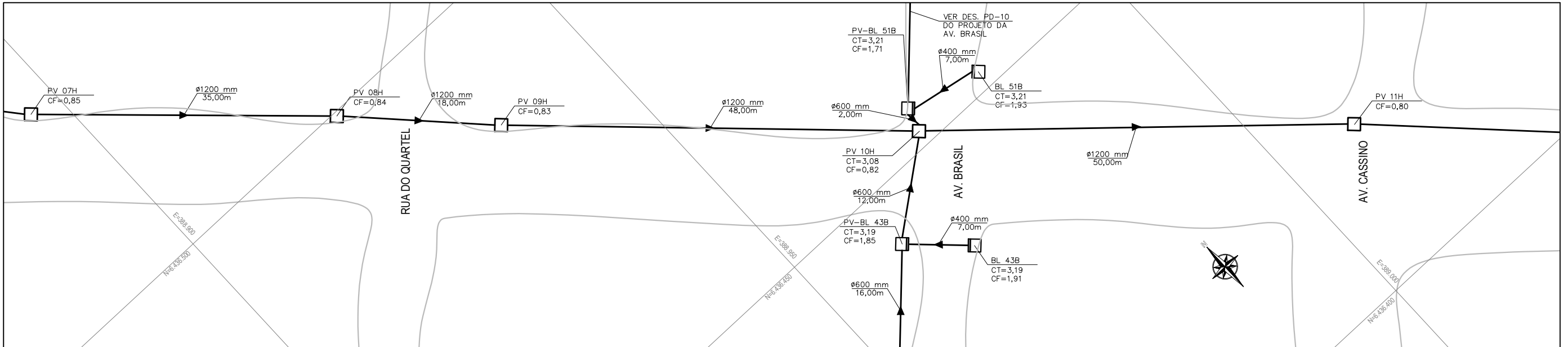


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| PROJETADO POR: | EQUIPE TÉCNICA | | |
| RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: | |
| ARISTÓTELES JOSÉ BOURSCHÉID CREA 9.409 | CYLLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 | |

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| PREFEITURA MUNICIPAL DE RIO GRANDE | | |
| PROJETOS DE INFRAESTRUTURA DE ENGENHARIA - FASE 1 | | |
| VIAS ESTRUTURANTES - BALNEÁRIO CASSINO - RIO GRANDE/RS | | |
| PROJETO DE DRENAGEM | | |
| AVENIDA ATLÂNTICA | | |
| km 2+080 ao km 2+240 | | |
| ESCALA: V = 1:50 H = 1:500 | DATA: AGOSTO/2015 | PRANCHA: PD-14 |



PLANTA BAIXA
ESCALA 1:500



PLANTA BAIXA
ESCALA 1:500

LEGENDA

BL 06
CT=3,20
CF=1,51

PV-BL 06
CT=3,20
CF=1,51

BL = BOCA DE LOBO

PV-BL = POÇO DE VISITA COM BOCA DE LOBO

CT = COTA DA TAMPA

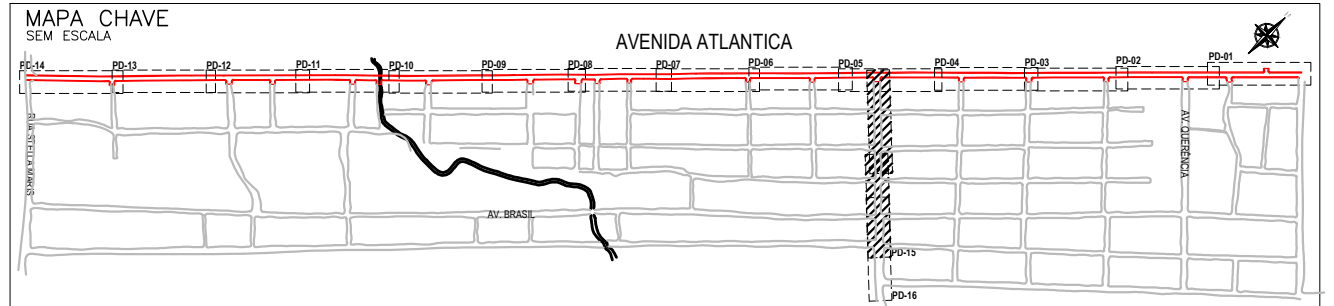
CF = COTA DE FUNDO


ø = DIÂMETRO DA TUBULAÇÃO EM mm

14 m = COMPRIMENTO DO TRECHO

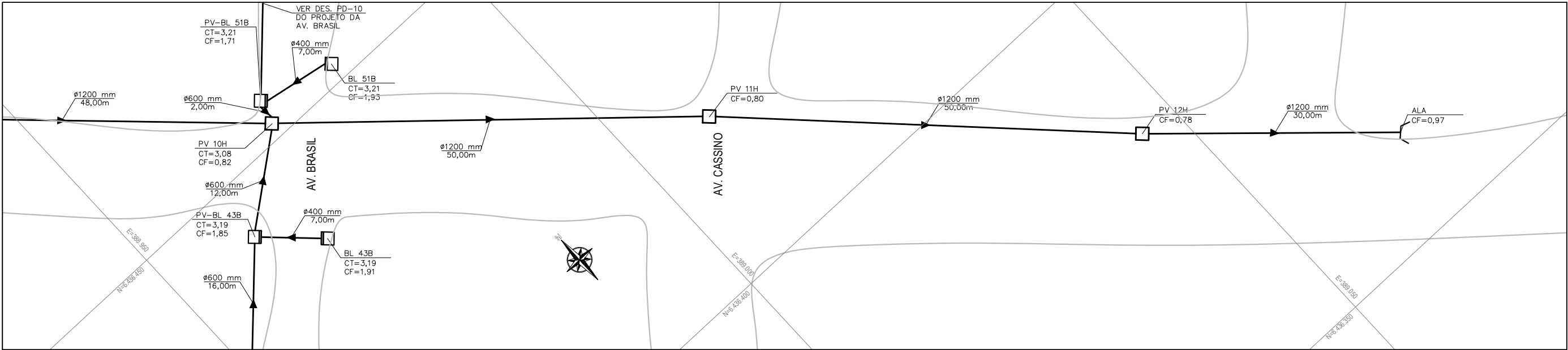
— EIXO DA VIA

— CALÇADA

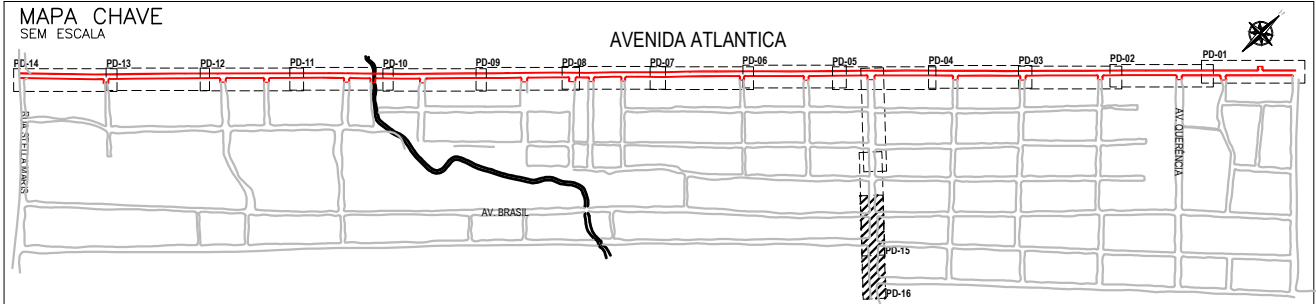
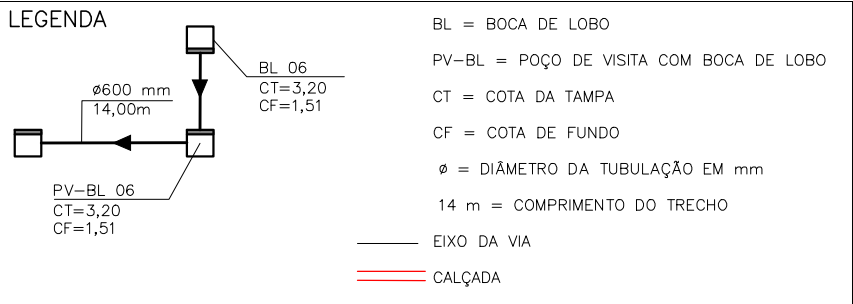



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|  BOURSCHEID ENGENHARIA E PROJETOS | EQUIPE TÉCNICA | | |
| | RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: |
| | ARISTÓTELES JOSÉ BOURSCHEID CREA 9.409 | CYLLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 |
| | | | |

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|---|--|----------|-------------|
|  PREFEITURA MUNICIPAL DE RIO GRANDE | PROJETOS DE INFRAESTRUTURA DE ENGENHARIA – FASE 1 | | ESCALA: |
| | VIAS ESTRUTURANTES – BALNEÁRIO CASSINO – RIO GRANDE/RS | | V = 1:50 |
| | PROJETO DE DRENAGEM | | H = 1:500 |
| | AVENIDA ATLÂNTICA | | DATA: |
| Deságue da Rua do Hotel | | PRANCHA: | AGOSTO/2015 |
| | | | PD-15 |



PLANTA BAIXA
ESCALA 1:500



| | | | |
|---|---|-----------------------------------|------------------------------------|
|  | EQUIPE TÉCNICA | | |
| | RESPONSÁVEL TÉCNICO: | COORDENADOR: | PROJETISTA: |
| | ARISTÓTELES JOSÉ BOURSCHIED CREA 9.409 | CYLON F. ROSA NETO CREA 44.757 | NEY R. L. DA SILVA CREA 146.352 |

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|---|--|--|-------------|
| PREFEITURA MUNICIPAL DE RIO GRANDE | | | |
|  | PROJETOS DE INFRAESTRUTURA DE ENGENHARIA – FASE 1 | | ESCALA: |
| | VIAS ESTRUTURANTES – BALNEÁRIO CASSINO – RIO GRANDE/RS | | V = 1:50 |
| | | | H = 1:500 |
| | PROJETO DE DRENAGEM | | DATA: |
| | AVENIDA ATLÂNTICA | | AGOSTO/2015 |
| | Deságue da Rua Hotel | | PRANCHA: |
| | | | PD-16 |