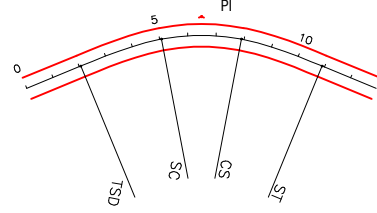
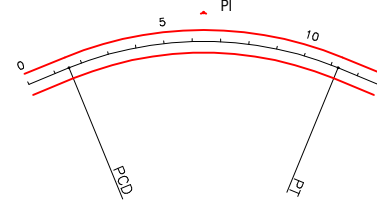


LEVANTAMENTO PLANIALTIMÉTRICO

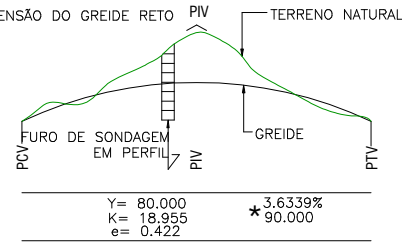
CURVA HORIZONTAL COM TRANSIÇÃO
 TS – PONTO DE MUDANÇA DE TANGENTE PARA ESPIRAL
 SC – PONTO DE MUDANÇA DE ESPIRAL PARA CIRCULAR
 CS – PONTO DE MUDANÇA DE CIRCULAR PARA ESPIRAL
 ST – PONTO DE MUDANÇA DE ESPIRAL PARA TANGENTE
 PI – PONTO DE INFLEXÃO



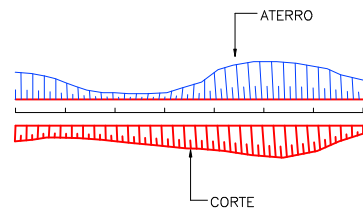
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 PC – PONTO DE CURVA
 PT – PONTO DE TANGENTE
 PI – PONTO DE INFLEXÃO



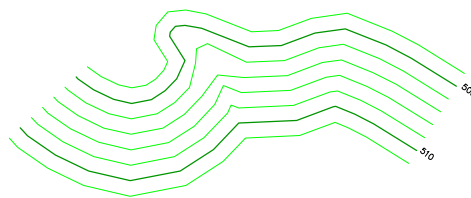
CURVA VERTICAL
 PCV – PONTO DE CURVA VERTICAL
 PTV – PONTO DE TANGÊNCIA VERTICAL
 PCRV – PONTO DE CURVA REVERSA VERTICAL
 PIV – PONTO DE INFLEXÃO VERTICAL
 Y – PROJEÇÃO HORIZONTAL DA PARÁBOLICA
 K – CONSTANTE DA PARÁBOLA VERTICAL
 e – FLECHA MÁXIMA DA PARÁBOLICA
 * – RAMPAS E EXTENSÃO DO GREIDE RETO



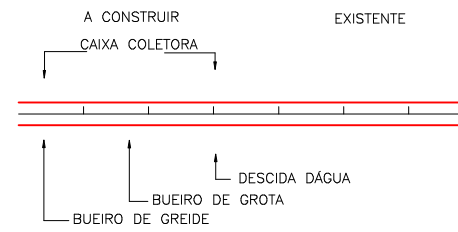
TALUDES (OFF-SET)



CURVAS DE NÍVEL



BUEIROS EM PLANTA

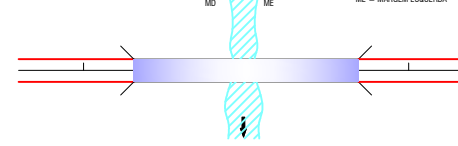


BUEIROS EM PERFIL

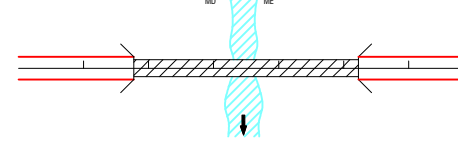
- A CONSTRUIR**
 = BSTC – BUEIRO SIMPLES TUBULAR DE CONCRETO
 = BDTC – BUEIRO DUPLO TUBULAR DE CONCRETO
 = BTTC – BUEIRO TRIPLO TUBULAR DE CONCRETO
 = BSCC – BUEIRO SIMPLES CELULAR DE CONCRETO
 = BDCC – BUEIRO DUPLO CELULAR DE CONCRETO
 = BTCC – BUEIRO TRIPLO CELULAR DE CONCRETO

BUEIROS EXISTENTES

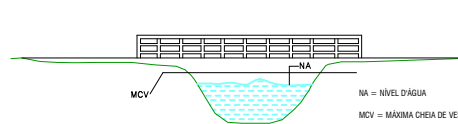
PONTE PROJETADA EM PLANTA



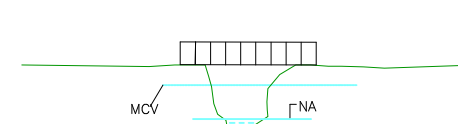
PONTE EXISTENTE EM PLANTA



PONTE PROJETADA (EM PERFIL)



PONTE EXISTENTE (EM PERFIL)



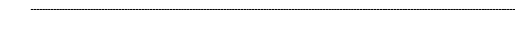
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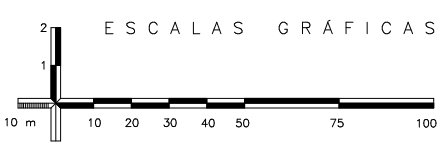
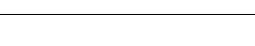
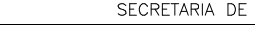
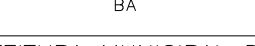
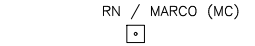
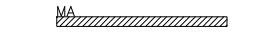
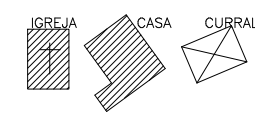
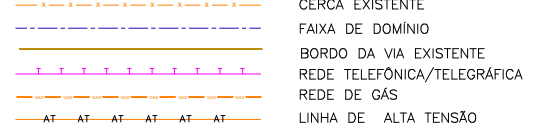
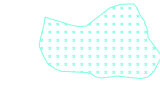
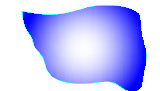
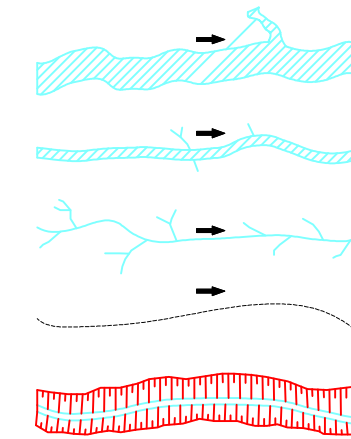
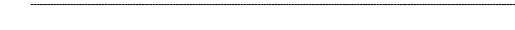
ESTRADA PAVIMENTADA



ESTRADA NÃO PAVIMENTADA



CAMINHO



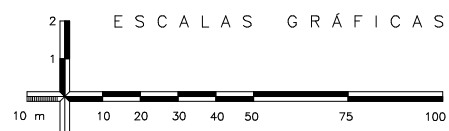
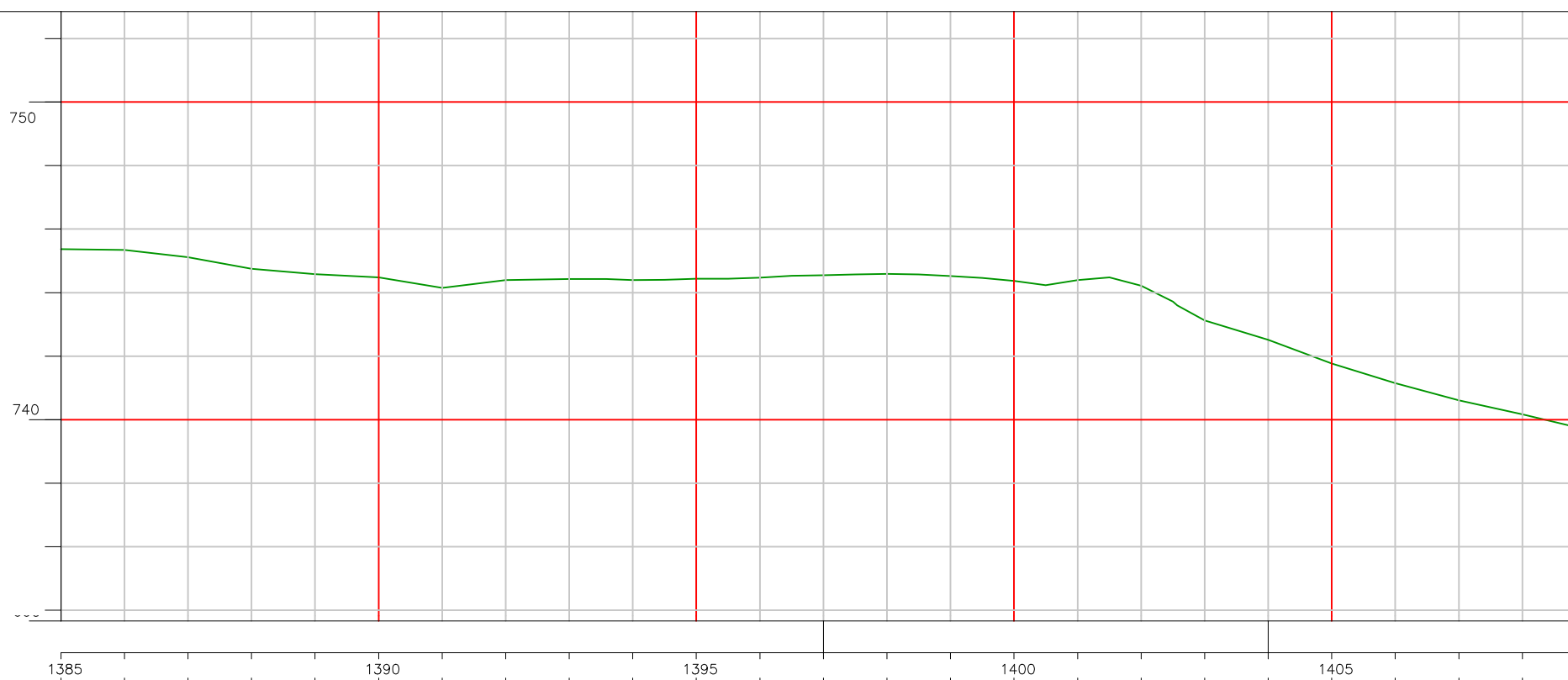
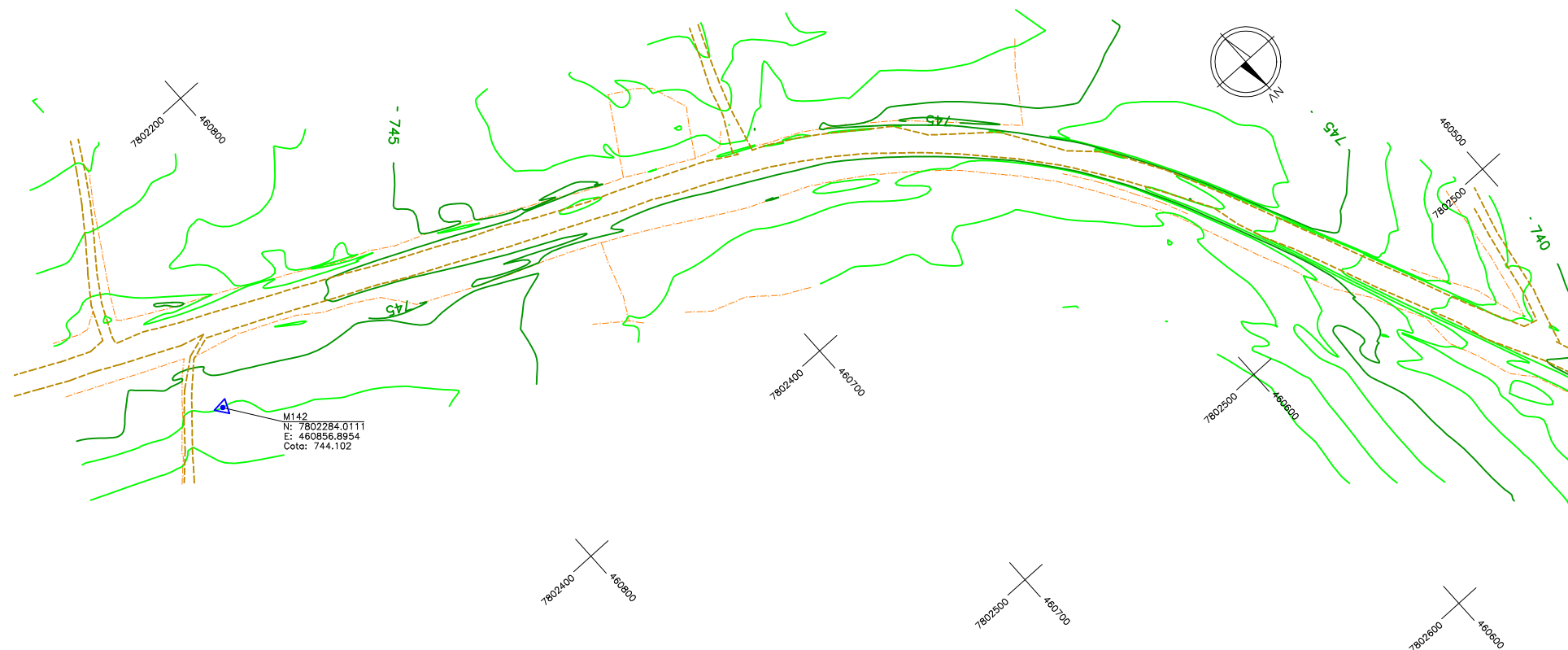
MB & R ENGENHARIA E TOPOGRAFIA LTDA.
 CNPJ: 30.586.318/0001-67
 CREA: 77049
 R. Inácia Cândida de Jesus, 324 – Sala: 01
 Bairro: Jardim Teles Lima
 (35) 99838 0358
 CEP: 37948-000
 Bom Jesus da Penha – MG

DESENHO Nº: PMM-2021-02-MG-LP-001
 MES/ANO: JUN/22
 ELABORADO POR: Mauro Vieira Bueno Junior
 Engenheiro Civil – CREA: 144763/D-MG

APROVAÇÃO



PREFEITURA MUNICIPAL DE MOEMA – MINAS GERAIS
 SECRETARIA DE OBRAS E SERVIÇOS
 RODOVIA: MG-252 TRECHO: MG-164/MG-170 – MOEMA
 CONVENÇÕES FOLHA: LP-08



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DESENHO Nº
 PMM-2021-02-MG-LP-001

MES/ANO:
 JUN/22

APROVAÇÃO

ELABORADO POR:

Mauro Vieira Bueno Junior
 Engenheiro Civil - CREA: 144763/D-MG



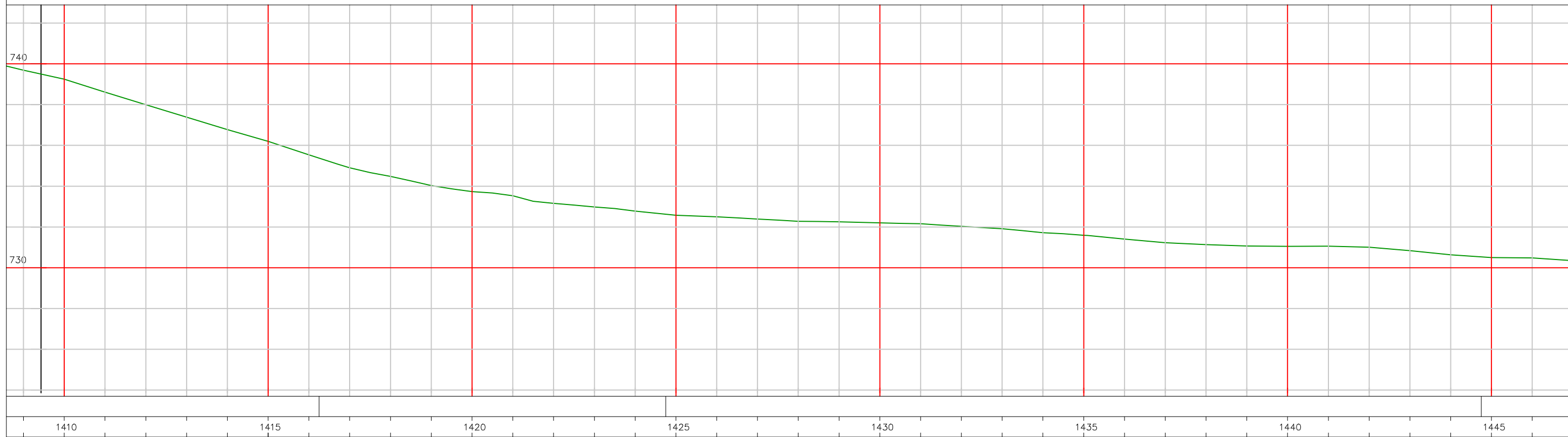
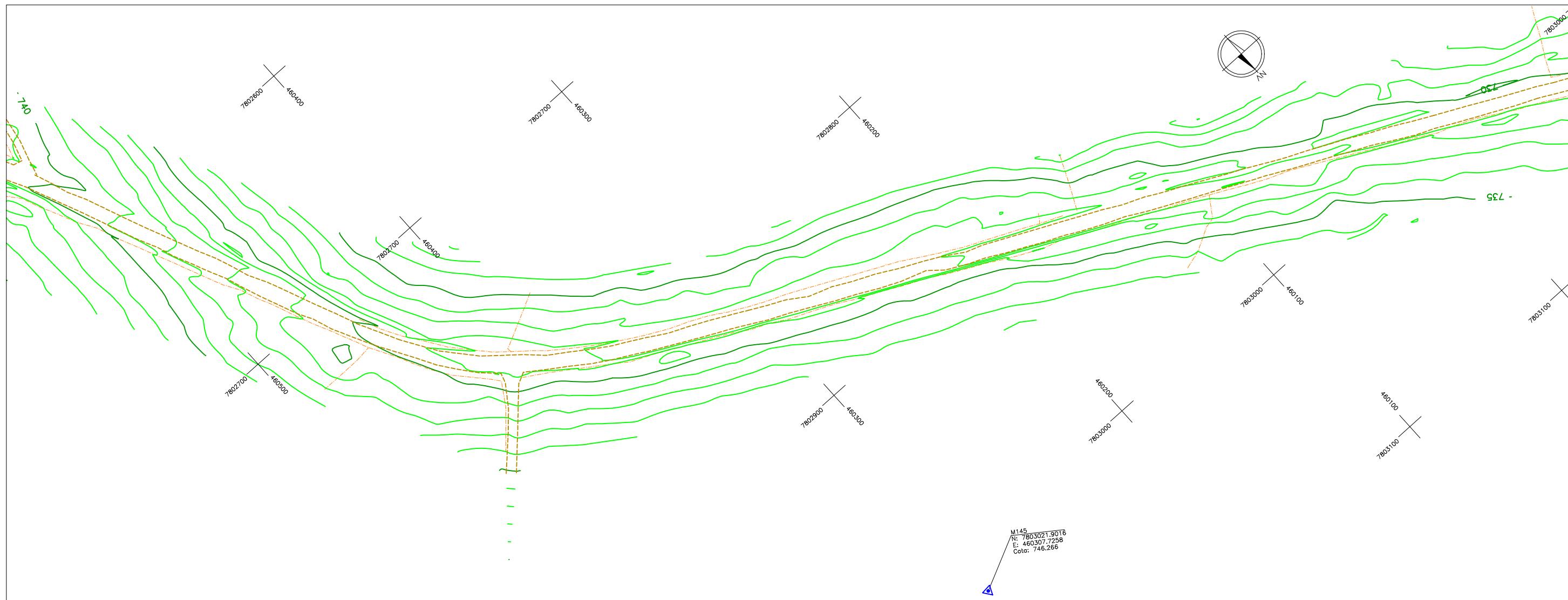
PREFEITURA MUNICIPAL DE MOEMA - MINAS GERAIS
 SECRETARIA DE OBRAS E SERVIÇOS

RODOVIA: MG-252

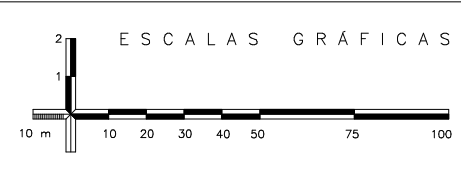
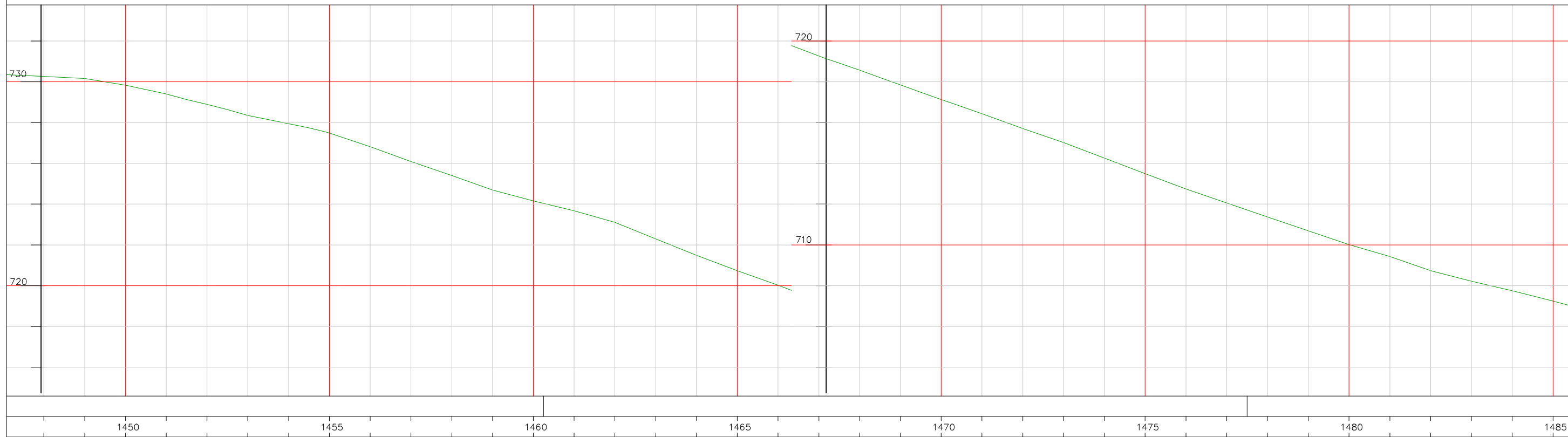
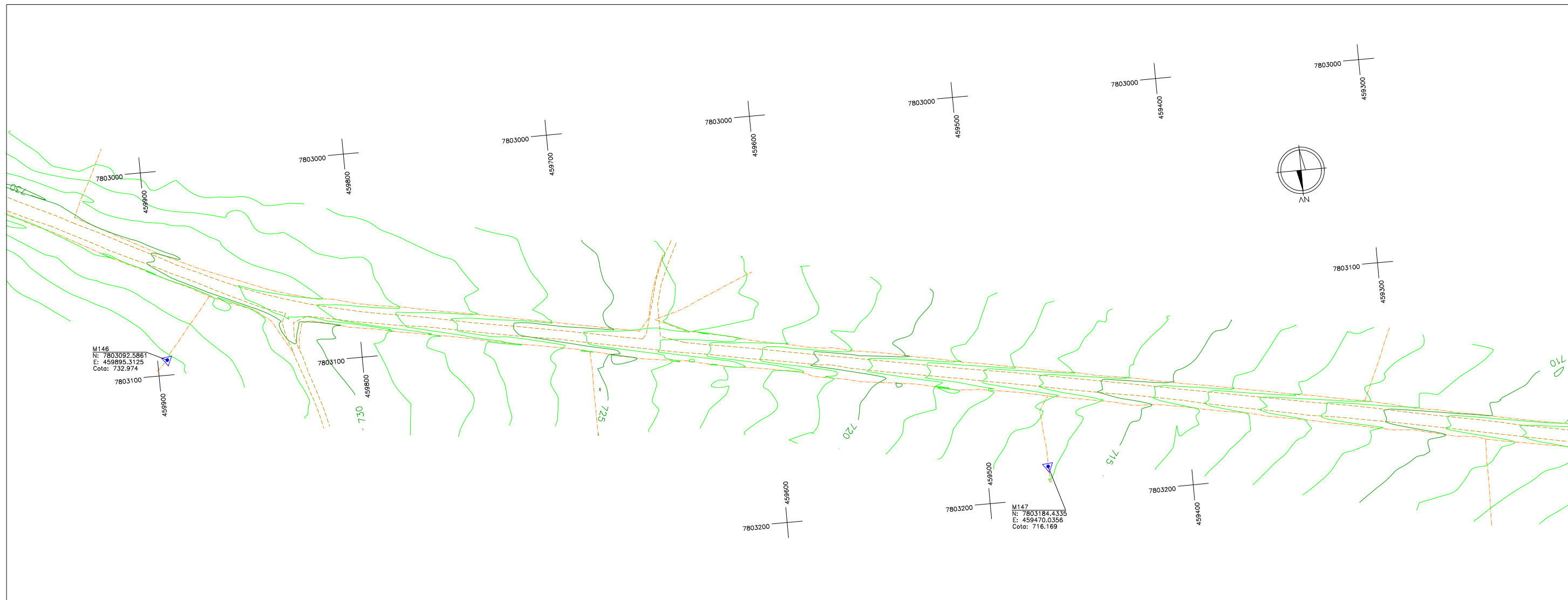
TRECHO: MG-164/MG-170 - MOEMA

LEVANTAMENTO TOPOGRÁFICO

FOLHA:
 LP-01



<p>ESCALAS GRÁFICAS</p>	<p>MB & R Engenharia e Topografia</p>	<p>MB & R ENGENHARIA E TOPOGRAFIA LTDA. CNPJ: 30.586.318/0001-67 CREA: 77049 R. Inácia Cândida de Jesus, 324 - Sala: 01 Bairro: Jardim Teles Lima (35) 99838 0358 CEP: 37948-000 Bom Jesus da Penha - MG</p>	<p>DESENHO Nº PMM-2021-02-MG-LP-001</p>	<p>MES/ANO: JUN/22</p>	<p>APROVAÇÃO</p>	<p>PREFEITURA MUNICIPAL DE MOEMA - MINAS GERAIS SECRETARIA DE OBRAS E SERVIÇOS</p>	
		<p>ELABORADO POR: Mauro Vieira Bueno Junior Engenheiro Civil - CREA: 144763/D-MG</p>	<p>RODOVIA: MG-252</p>	<p>TRECHO: MG-164/MG-170 - MOEMA</p>		<p>LEVANTAMENTO TOPOGRÁFICO</p>	<p>FOLHA: LP-02</p>

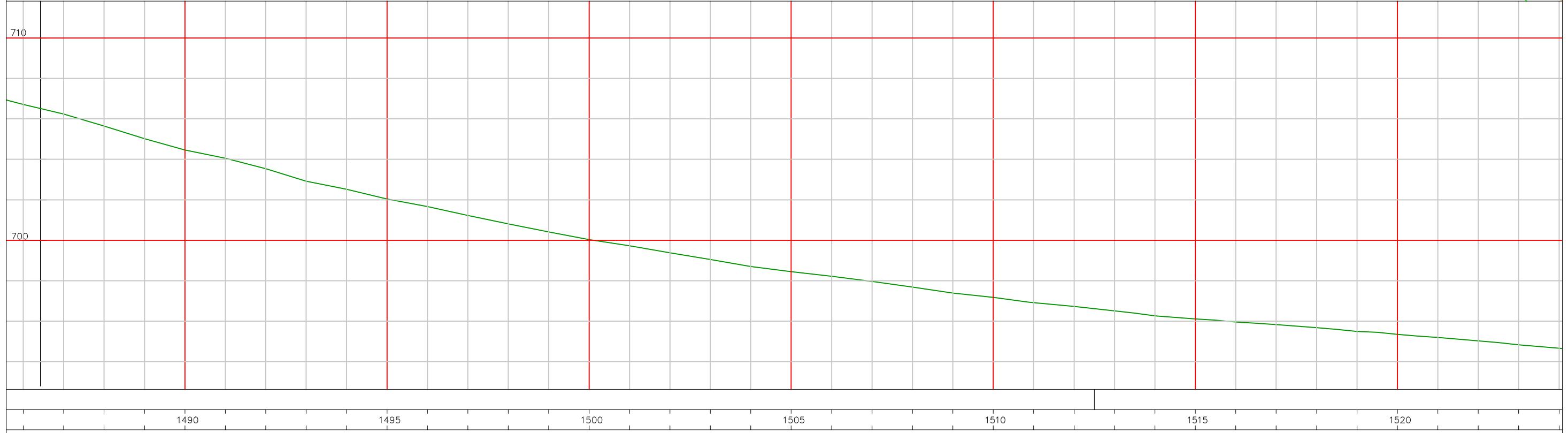
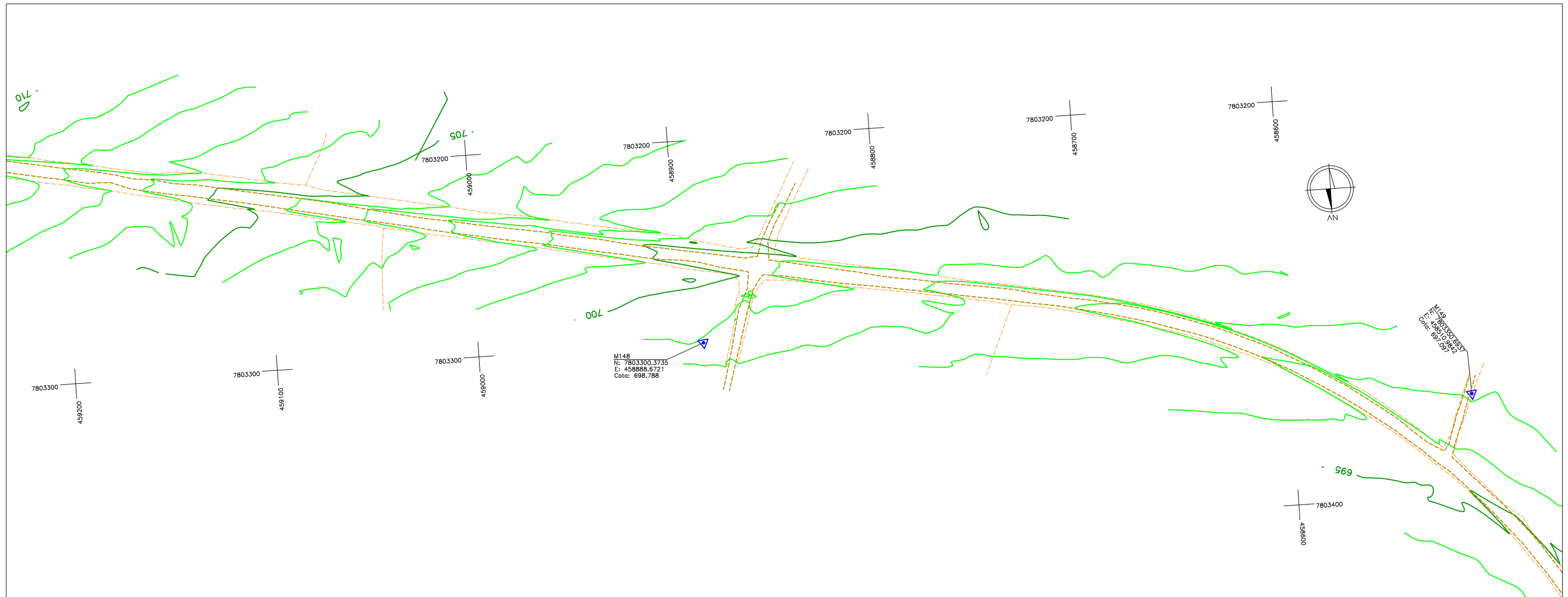


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 (35) 99838 0358
 CEP: 37948-000
 Bom Jesus da Penha - MG

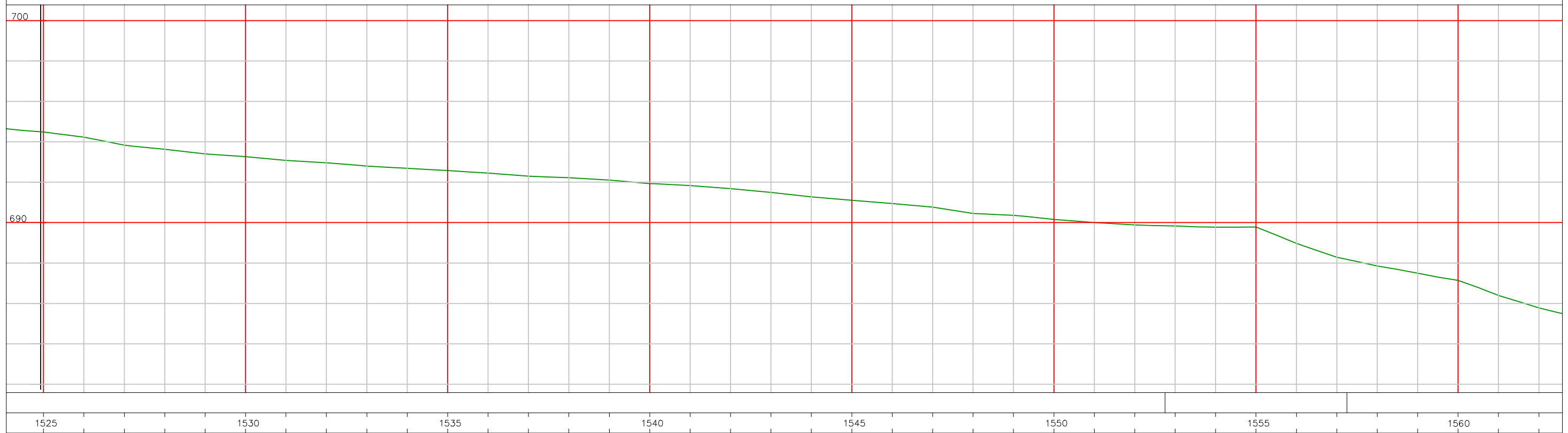
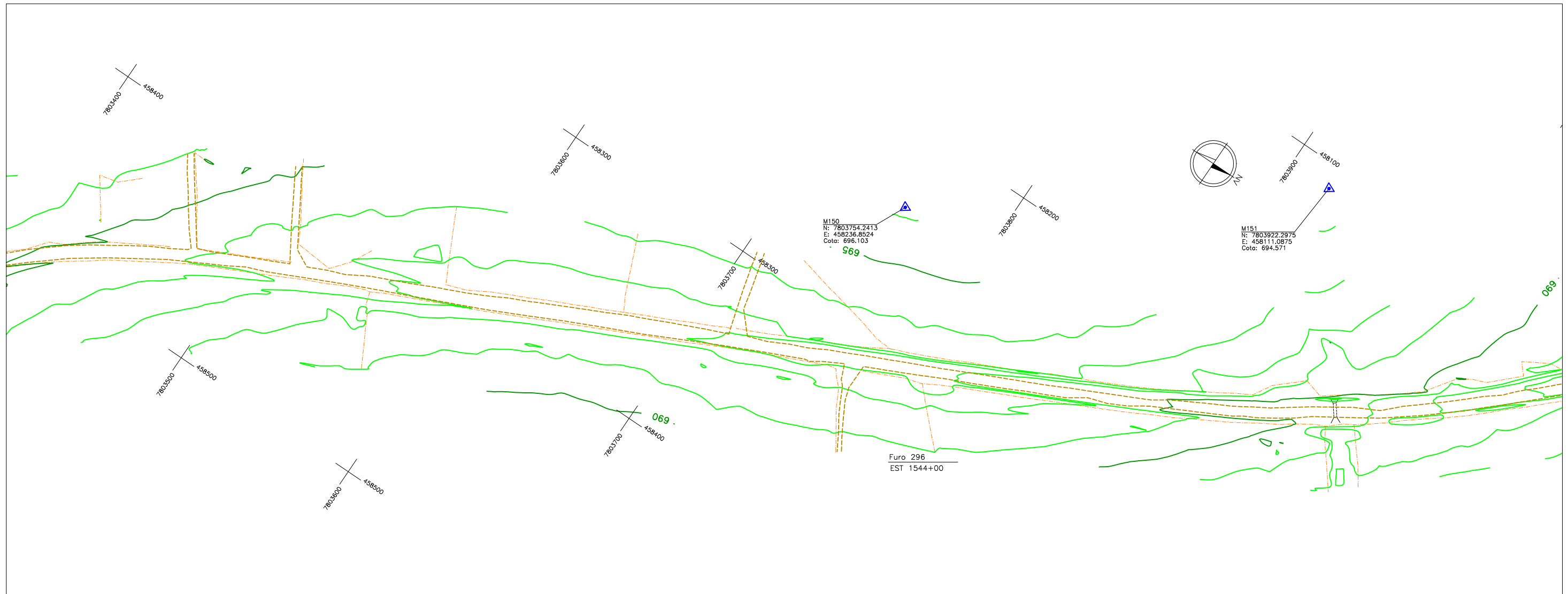
DESENHO Nº: PMM-2021-02-MG-LP-001
 MES/ANO: JUN/22
 ELABORADO POR: Mauro Vieira Bueno Junior
 Engenheiro Civil - CREA: 144763/D-MG

APROVAÇÃO

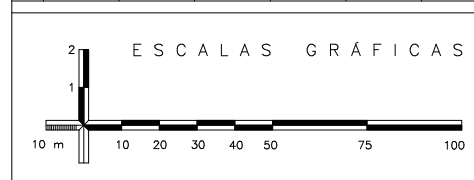
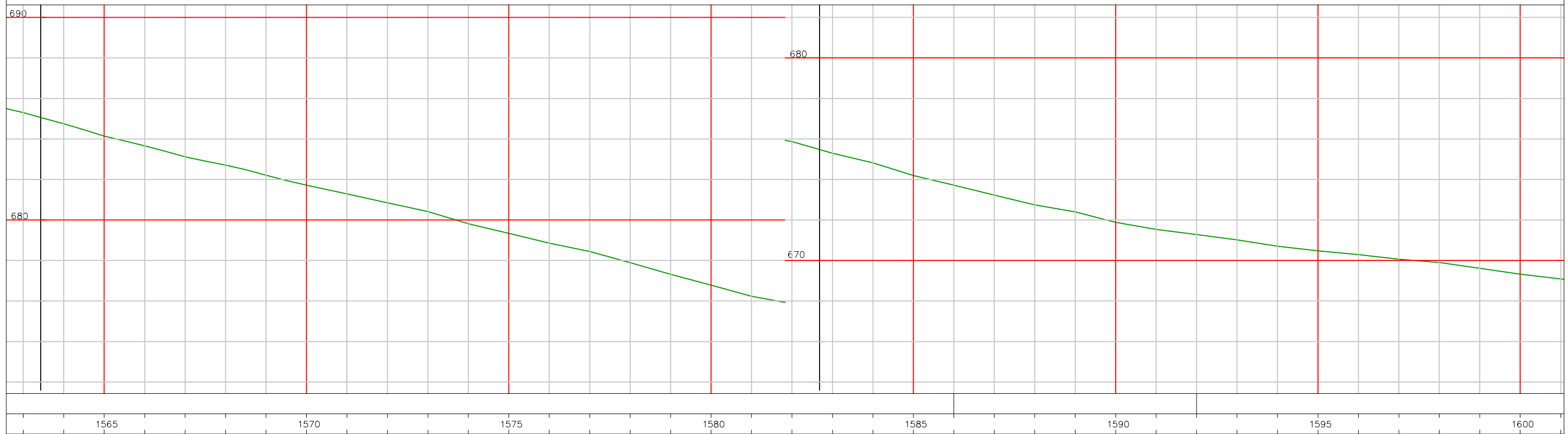
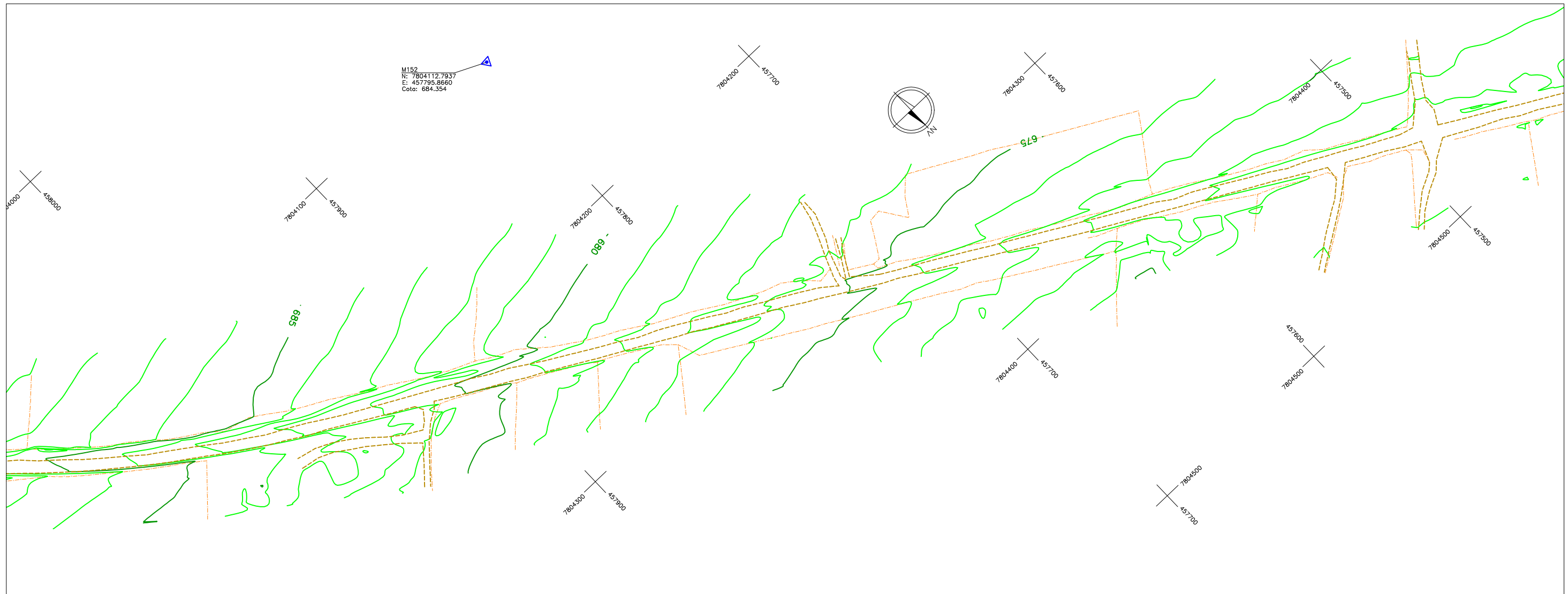
PREFEITURA MUNICIPAL DE MOEMA - MINAS GERAIS
 SECRETARIA DE OBRAS E SERVIÇOS
 RODOVIA: MG-252 TRECHO: MG-164/MG-170 - MOEMA
 LEVANTAMENTO TOPOGRÁFICO
 FOLHA: LP-03



<p>ESCALAS GRÁFICAS</p>	<p>MB & R Engenharia e Topografia</p>	<p>MB & R ENGENHARIA E TOPOGRAFIA LTDA. CNPJ: 30.586.318/0001-67 CREA: 77049 R. Inácia Cândida de Jesus, 324 - Sala: 01 Bairro: Jardim Teles Lima (35) 99838 0358 CEP: 37948-000 Bom Jesus da Penha - MG</p>	<p>DESENHO Nº PMM-2021-02-MG-LP-001</p>	<p>MES/ANO: JUN/22</p>	<p>APROVAÇÃO</p>	<p>PREFEITURA MUNICIPAL DE MOEMA - MINAS GERAIS SECRETARIA DE OBRAS E SERVIÇOS</p>	
		<p>ELABORADO POR: Mauro Vieira Bueno Junior Engenheiro Civil - CREA: 144763/D-MG</p>	<p>RODOVIA: MG-252</p>	<p>TRECHO: MG-164/MG-170 - MOEMA</p>		<p>LEVANTAMENTO TOPOGRÁFICO</p>	<p>FOLHA: LP-04</p>



<p>ESCALAS GRÁFICAS</p>	<p>MB & R Engenharia e Topografia</p>	<p>MB & R ENGENHARIA E TOPOGRAFIA LTDA. CNPJ: 30.586.318/0001-67 CREA: 77049 R. Inácia Cândida de Jesus, 324 - Sala: 01 Bairro: Jardim Teles Lima (35) 99838 0358 CEP: 37948-000 Bom Jesus da Penha - MG</p>	<p>DESENHO Nº PMM-2021-02-MG-LP-001</p>	<p>MES/ANO: JUN/22</p>	<p>APROVAÇÃO</p>	<p>PREFEITURA MUNICIPAL DE MOEMA - MINAS GERAIS SECRETARIA DE OBRAS E SERVIÇOS</p>	
		<p>ELABORADO POR: Mauro Vieira Bueno Junior Engenheiro Civil - CREA: 144763/D-MG</p>	<p>RODOVIA: MG-252</p>	<p>TRECHO: MG-164/MG-170 - MOEMA</p>		<p>LEVANTAMENTO TOPOGRÁFICO</p>	<p>FOLHA: LP-05</p>

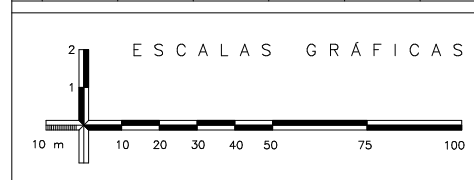
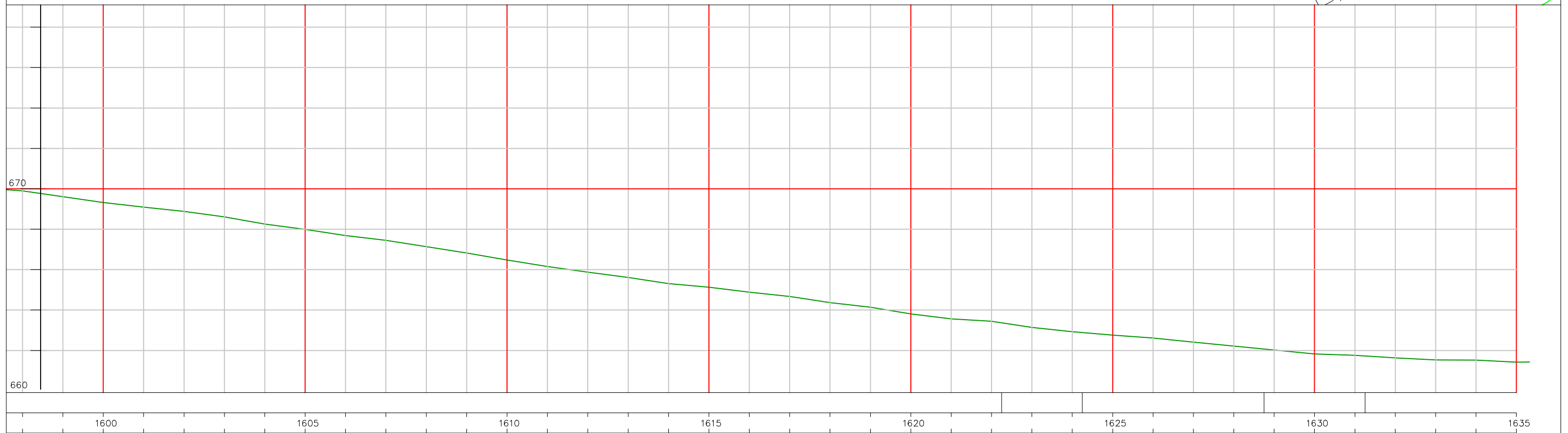
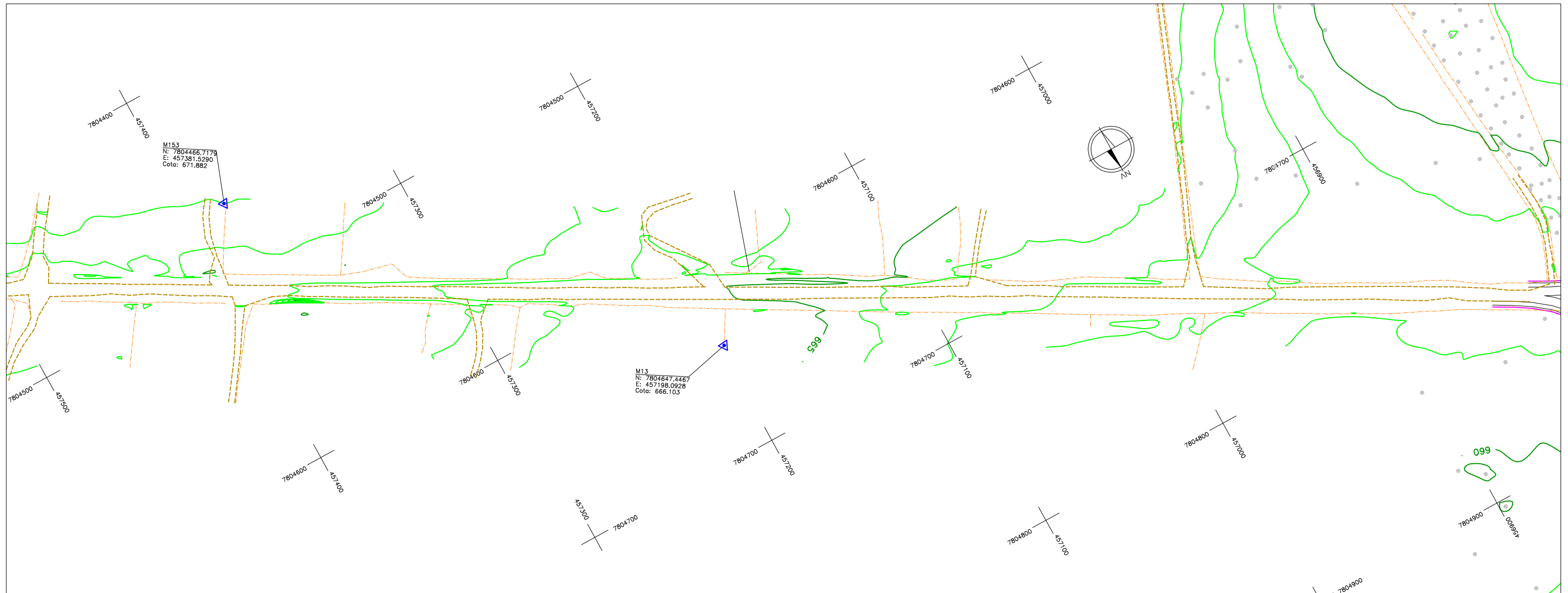


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 MES/ANO: JUN/22
 ELABORADO POR:
 Mauro Vieira Bueno Junior
 Engenheiro Civil - CREA: 144763/D-MG

APROVAÇÃO

PREFEITURA MUNICIPAL DE MOEMA - MINAS GERAIS
 SECRETARIA DE OBRAS E SERVIÇOS
 RODOVIA: MG-252
 TRECHO: MG-164/MG-170 - MOEMA
 LEVANTAMENTO TOPOGRÁFICO
 FOLHA: LP-06



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 Engenheiro Civil - CREA: 144763/D-MG

APROVAÇÃO

PREFEITURA MUNICIPAL DE MOEMA - MINAS GERAIS
 SECRETARIA DE OBRAS E SERVIÇOS
 RODOVIA: MG-252 TRECHO: MG-164/MG-170 - MOEMA
 LEVANTAMENTO TOPOGRÁFICO
 FOLHA: LP-07