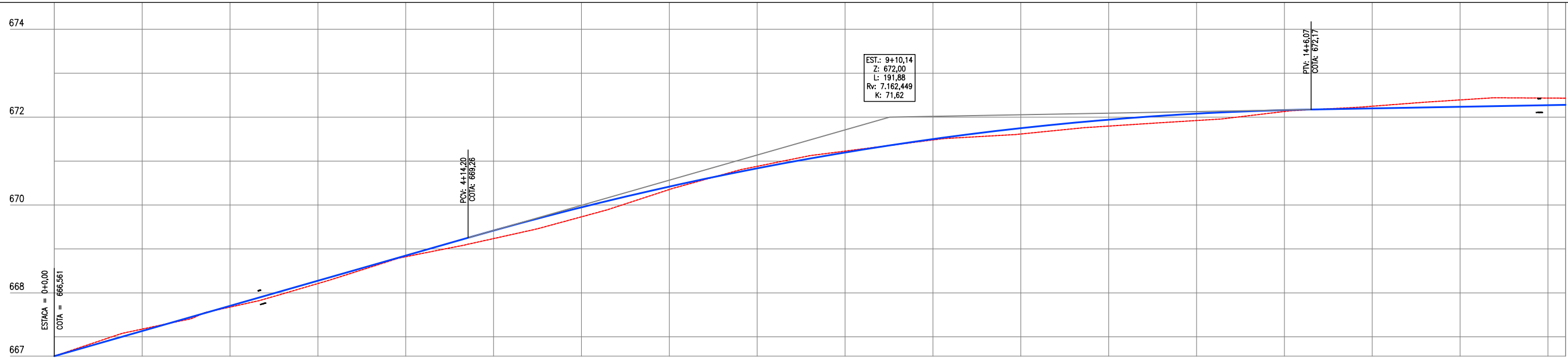


E: 291306.969
N: 9524132.446

0 1000 2000



| Estaca | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|
| Cota do terreno | 666,581 | 667,176 | 667,677 | 668,213 | 668,823 | 669,236 | 669,731 | 670,353 | 670,881 | 671,227 | 671,481 | 671,617 | 671,796 | 671,923 | 672,129 | 672,249 | 2,392 | 2,434 | 2,432 |
| Cota da terraplenagem | 666,581 | 667,133 | 667,705 | 668,277 | 668,849 | 669,419 | 669,947 | 670,419 | 670,836 | 671,196 | 671,501 | 671,749 | 671,942 | 672,079 | 672,161 | 672,200 | | | |
| Cota vermelha | 0,000 | -0,043 | 0,028 | 0,065 | 0,028 | 0,183 | 0,216 | 0,066 | -0,045 | -0,030 | 0,020 | 0,133 | 0,146 | 0,156 | 0,032 | -0,049 | | | |

JOTA BARROS PROJETOS
Arthur Moreira Torquato
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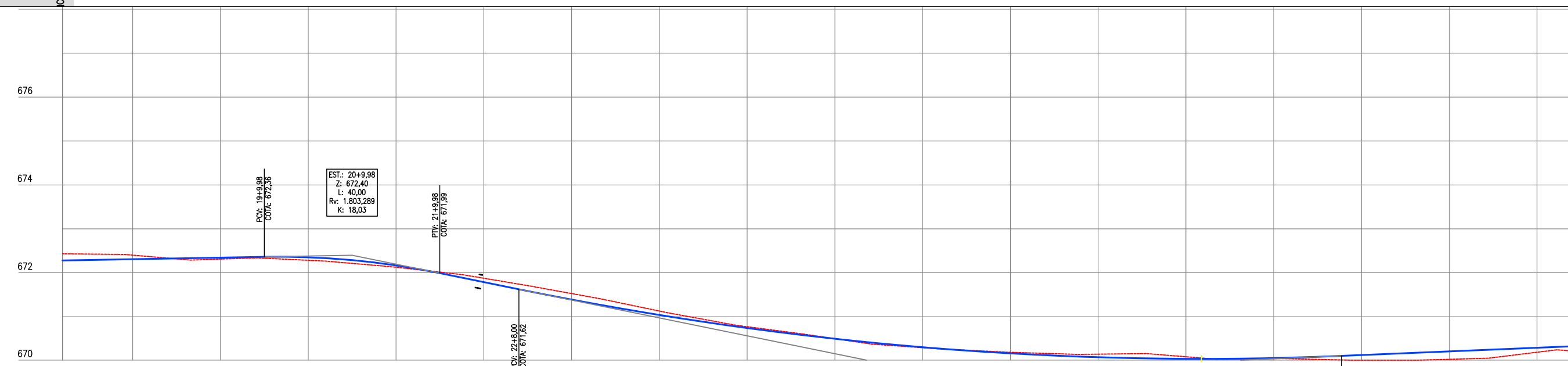
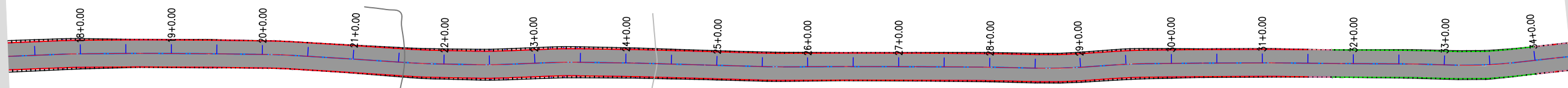
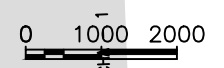
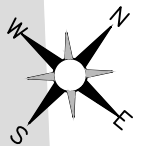
| | | | | | | | |
|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
| | | | | | | | |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

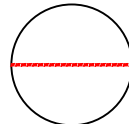
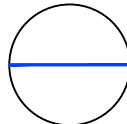
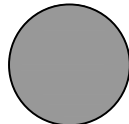
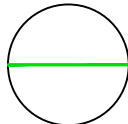
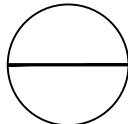
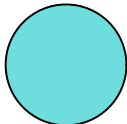

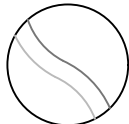
PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG

PRANCHA:
1 / 13
ESCALA:
H 1/1000
V 1/100



| Estaca | Cota do terreno | Cota da terraplenagem | Cota da vermelha |
|--------|-----------------|-----------------------|------------------|
| 17 | 672,432 | 672,279 | -0,152 |
| 18 | 672,401 | 672,309 | -0,092 |
| 19 | 672,312 | 672,346 | 0,033 |
| 20 | 672,285 | 672,353 | 0,069 |
| 21 | 672,127 | 672,168 | 0,040 |
| 22 | 671,876 | 671,788 | -0,088 |
| 23 | 671,528 | 671,390 | -0,138 |
| 24 | 671,130 | 671,040 | -0,089 |
| 25 | 670,773 | 670,743 | -0,030 |
| 26 | 670,500 | 670,498 | -0,002 |
| 27 | 670,306 | 670,306 | 0,011 |
| 28 | 670,190 | 670,165 | -0,024 |
| 29 | 670,148 | 670,078 | -0,070 |
| 30 | 670,088 | 670,042 | -0,046 |
| 31 | 670,046 | 670,059 | 0,013 |
| 32 | 670,012 | 670,127 | 0,115 |
| 33 | 0,031 | | |
| 34 | 0,191 | | |
| 34 | 2,217 | | |


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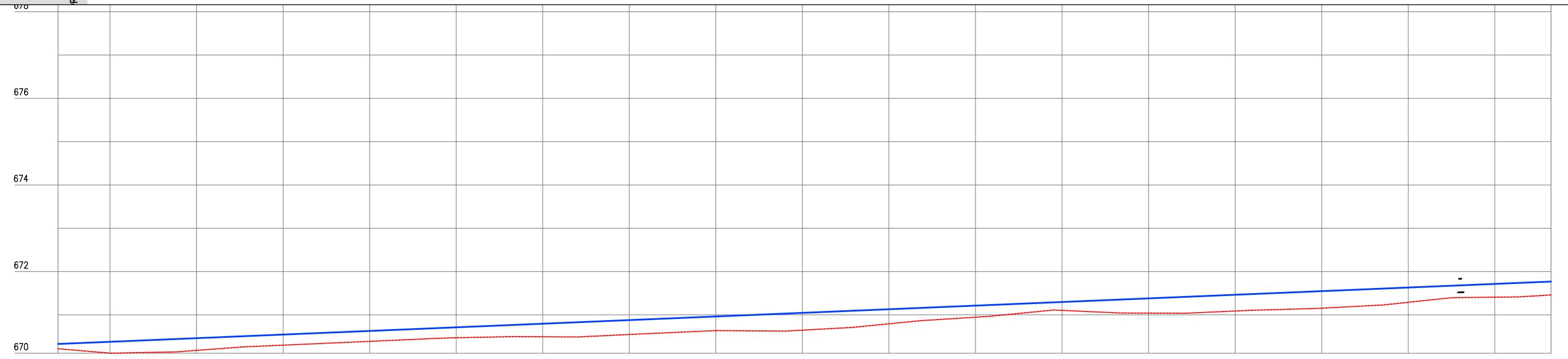
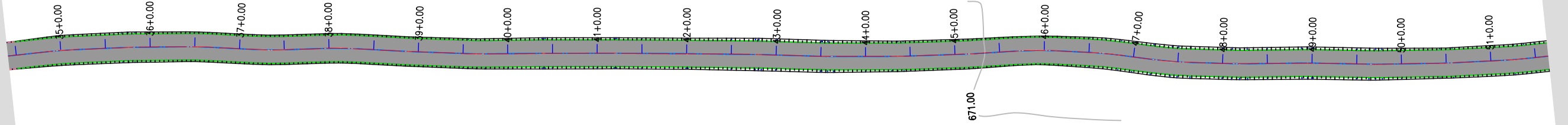
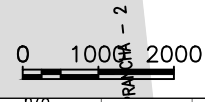
| | | | | | | | |
|---|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |  |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

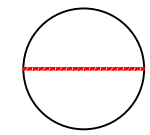
| | |
|-------------|--|
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

PRANCHA:
2 / 13
 ESCALA:
 H 1/1000
 V 1/100

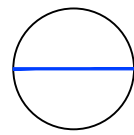


| Cota vermelha | Cota da terraplenagem | Cota do terreno | Estaca |
|---------------|-----------------------|-----------------|--------|
| 0,110 | 670,327 | 670,217 | 34 |
| 0,263 | 670,378 | 670,114 | 35 |
| 0,282 | 670,461 | 670,180 | 36 |
| 0,245 | 670,545 | 670,300 | 37 |
| 0,241 | 670,628 | 670,387 | 38 |
| 0,241 | 670,712 | 670,471 | 39 |
| 0,302 | 670,795 | 670,483 | 40 |
| 0,333 | 670,879 | 670,546 | 41 |
| 0,327 | 670,962 | 670,636 | 42 |
| 0,400 | 671,046 | 670,646 | 43 |
| 0,336 | 671,129 | 670,783 | 44 |
| 0,288 | 671,213 | 670,945 | 45 |
| 0,193 | 671,297 | 671,103 | 46 |
| 0,340 | 671,380 | 671,040 | 47 |
| 0,376 | 671,464 | 671,088 | 48 |
| 0,383 | 671,547 | 671,154 | 49 |
| | | 1,289 | 50 |
| | | 1,408 | 51 |
| | | 1,459 | 51 |

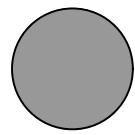

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE



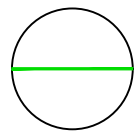
TERRENO NATURAL



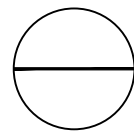
PROJETADO



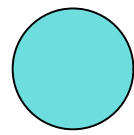
ESTRADA



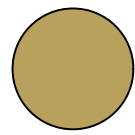
BORDO



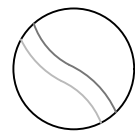
TALUDE



ATERRO



CORTE



CURVAS DE NÍVEL



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
 RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA
 DO NORTE-CE - PT 1086270-03

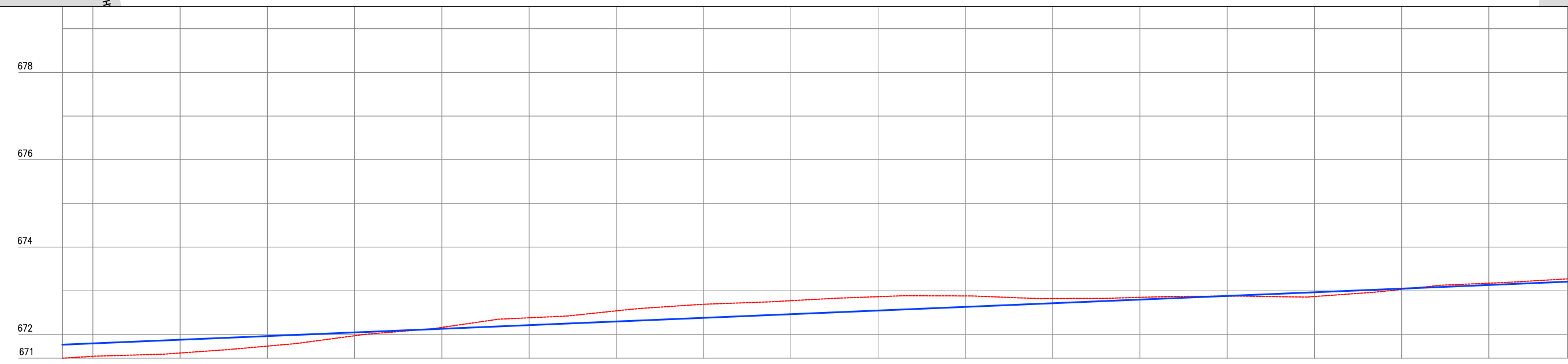
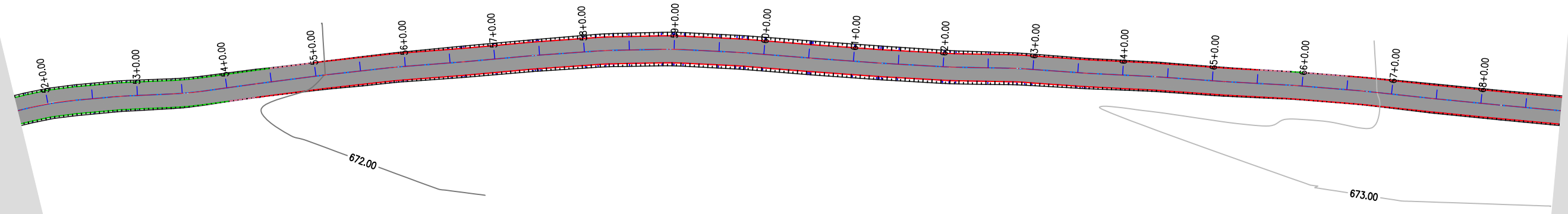
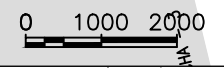
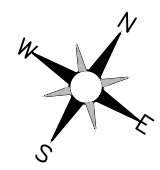
ESTAQUEAMENTO E PERFIL LONGITUDINAL

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE


ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG

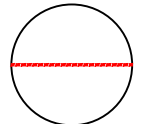
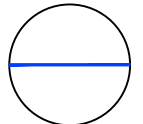
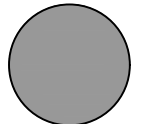
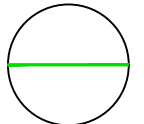
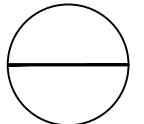
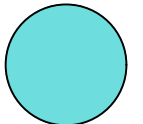

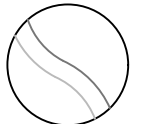
PRANCHA:
3 / 13

ESCALA:
H 1/1000
V 1/100



| Cota da vermelha | Cota da terraplenagem | Cota do terreno | Estaca |
|---------------------|--------------------------|--------------------|--------|
| 0,309 | 671,769 | 671,459 | 51 |
| 0,296 | 671,798 | 671,501 | 52 |
| 0,304 | 671,881 | 671,577 | 53 |
| 0,230 | 671,985 | 671,735 | 54 |
| 0,076 | 672,048 | 671,972 | 55 |
| -0,031 | 672,132 | 672,163 | 56 |
| -0,166 | 672,215 | 672,383 | 57 |
| -0,243 | 672,299 | 672,542 | 58 |
| -0,309 | 672,383 | 672,692 | 59 |
| -0,308 | 672,466 | 672,774 | 60 |
| -0,317 | 672,550 | 672,866 | 61 |
| -0,250 | 672,633 | 672,983 | 62 |
| -0,107 | 672,717 | 672,824 | 63 |
| -0,050 | 672,800 | 672,850 | 64 |
| 0,006 | 672,884 | 672,878 | 65 |
| 0,097 | 672,967 | 672,870 | 66 |
| 0,017 | 673,051 | 673,034 | 67 |
| | | 3,175 | 68 |
| | | 3,274 | 68 |


JOTA BARROS PROJETOS
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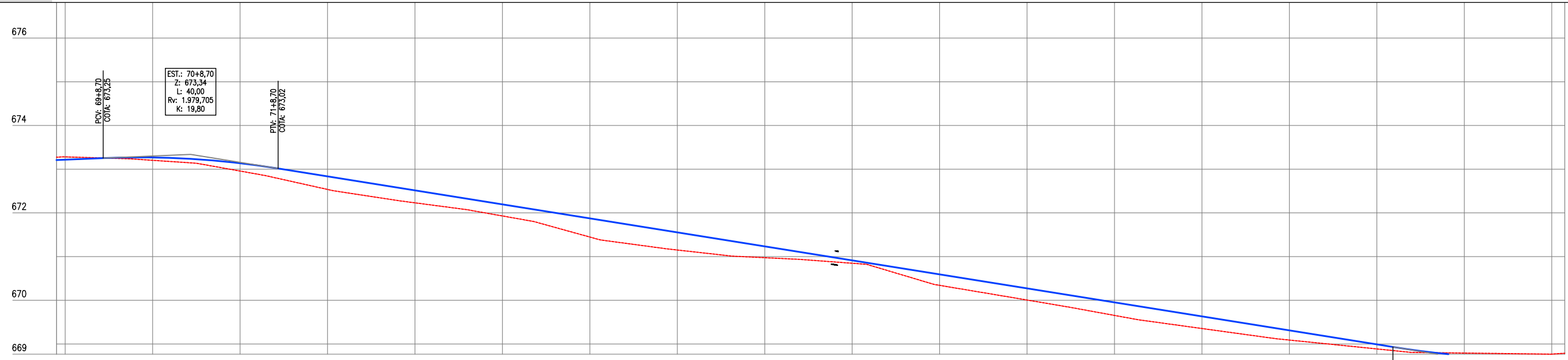
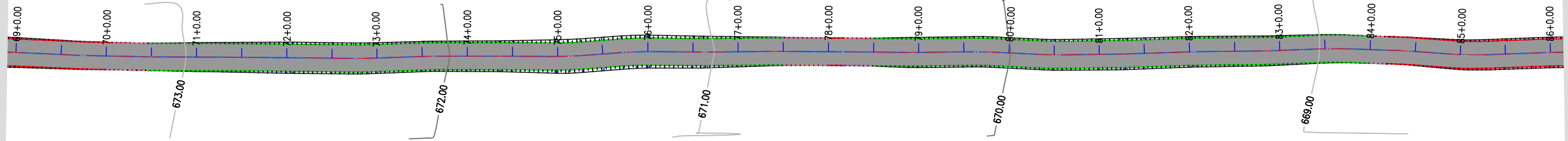
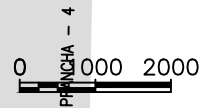
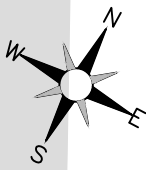
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|---|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |  |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

| | |
|-------------|--|
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

| | |
|----------|---------------------|
| PRANCHA: | 4 / 13 |
| ESCALA: | H 1/1000 V 1/100 |



| Estaca | Cota da terraplenagem | Cota do terreno | Cota vermelha |
|--------|-----------------------|-----------------|---------------|
| 68 | 673,274 | 673,274 | -0,064 |
| 69 | 673,282 | 673,282 | -0,064 |
| 70 | 673,269 | 673,203 | 0,066 |
| 71 | 673,138 | 672,958 | 0,180 |
| 72 | 672,836 | 672,537 | 0,299 |
| 73 | 672,516 | 672,230 | 0,285 |
| 74 | 672,195 | 671,930 | 0,265 |
| 75 | 671,875 | 671,447 | 0,427 |
| 76 | 671,554 | 671,151 | 0,403 |
| 77 | 671,233 | 670,975 | 0,259 |
| 78 | 670,913 | 670,847 | 0,065 |
| 79 | 670,592 | 670,341 | 0,251 |
| 80 | 670,272 | 670,006 | 0,266 |
| 81 | 669,951 | 669,653 | 0,298 |
| 82 | 669,631 | 669,354 | 0,277 |
| 83 | 669,310 | 669,089 | 0,221 |
| 84 | 668,989 | 668,886 | 0,103 |
| 85 | | 668,792 | |
| 86 | | 668,768 | |
| 86 | | 668,787 | |

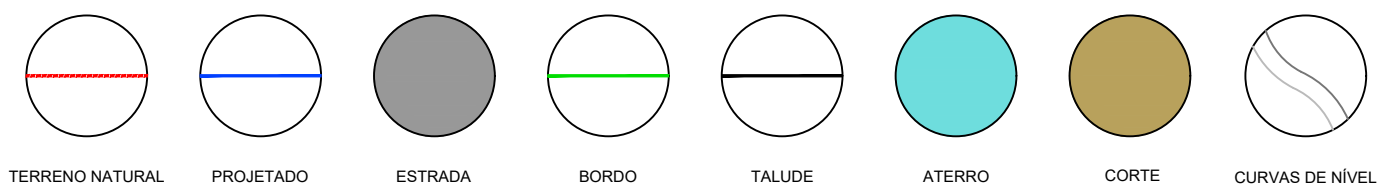
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Z: 673,34
L: 40,00
Rv: 1.979,705
K: 19,80

PC: 69+8,70
COTA: 673,25

PT: 71+8,70
COTA: 673,02

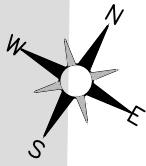
PC: 84+3,68
COTA: 668,93

JOTA BARROS PROJETOS
Arthur Moreira Torquato
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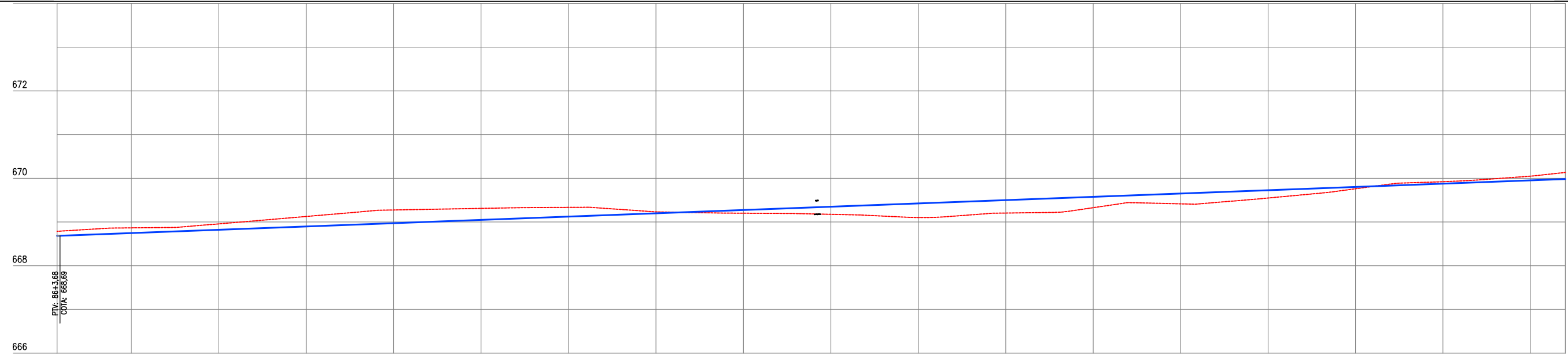
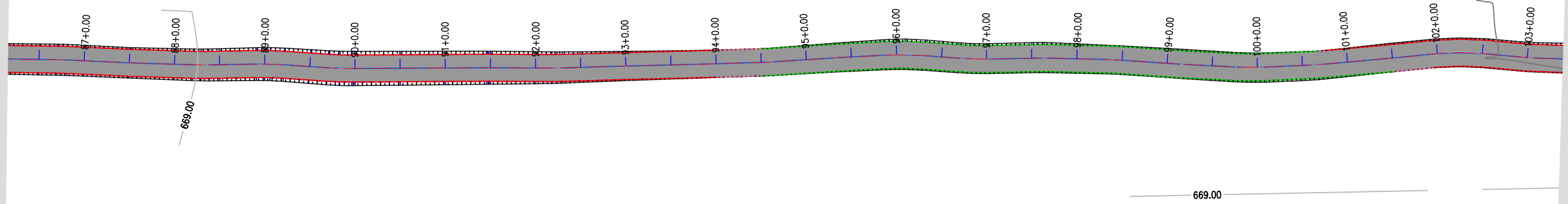


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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| ESTAQUEAMENTO E PERFIL LONGITUDINAL | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

| | |
|----------|---------------------|
| PRANCHA: | 5 / 13 |
| ESCALA: | H 1/1000 V 1/100 |



PRANCHA - 5
0 1000 2000



| Cota da vermelha | Cota da terraplenagem | Cota do terreno | Estaca |
|------------------|-----------------------|-----------------|--------|
| -0,104 | 668,683 | 668,787 | 86 |
| -0,119 | 668,747 | 668,866 | 87 |
| -0,135 | 668,822 | 668,957 | 88 |
| -0,229 | 668,887 | 669,127 | 89 |
| -0,303 | 668,973 | 669,275 | 90 |
| -0,284 | 669,048 | 669,312 | 91 |
| -0,211 | 669,123 | 669,334 | 92 |
| -0,032 | 669,199 | 669,231 | 93 |
| 0,072 | 669,274 | 669,202 | 94 |
| 0,173 | 669,349 | 669,176 | 95 |
| 0,323 | 669,425 | 669,102 | 96 |
| 0,295 | 669,500 | 669,205 | 97 |
| 0,248 | 669,575 | 669,328 | 98 |
| 0,235 | 669,651 | 669,415 | 99 |
| 0,177 | 669,726 | 669,549 | 100 |
| 0,041 | 669,801 | 669,761 | 101 |
| | | 3,922 | 102 |
| | | 3,049 | 103 |
| | | 3,134 | 103 |

Arthur Moreira Torquato
JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE

| | | | | | | | |
|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
| | | | | | | | |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |

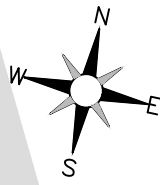


PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

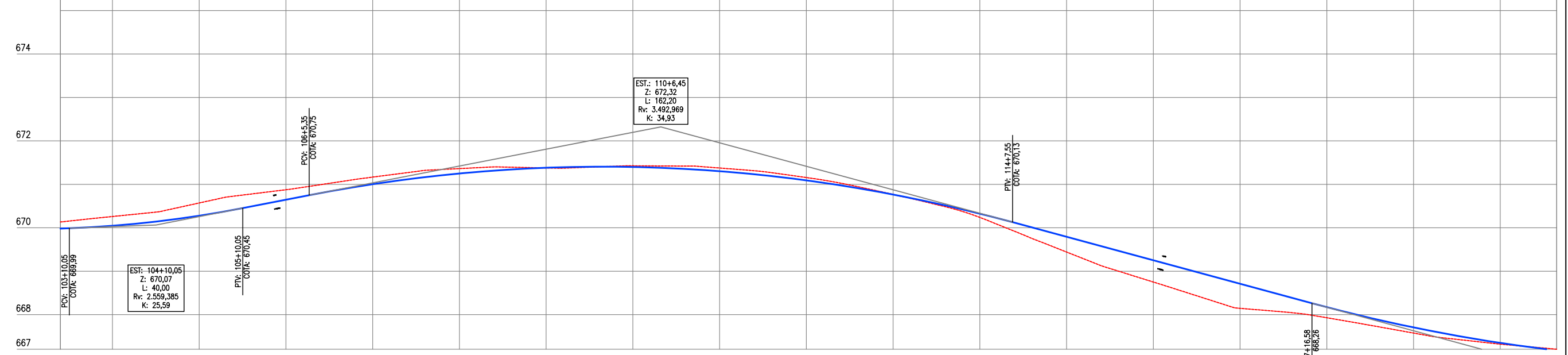
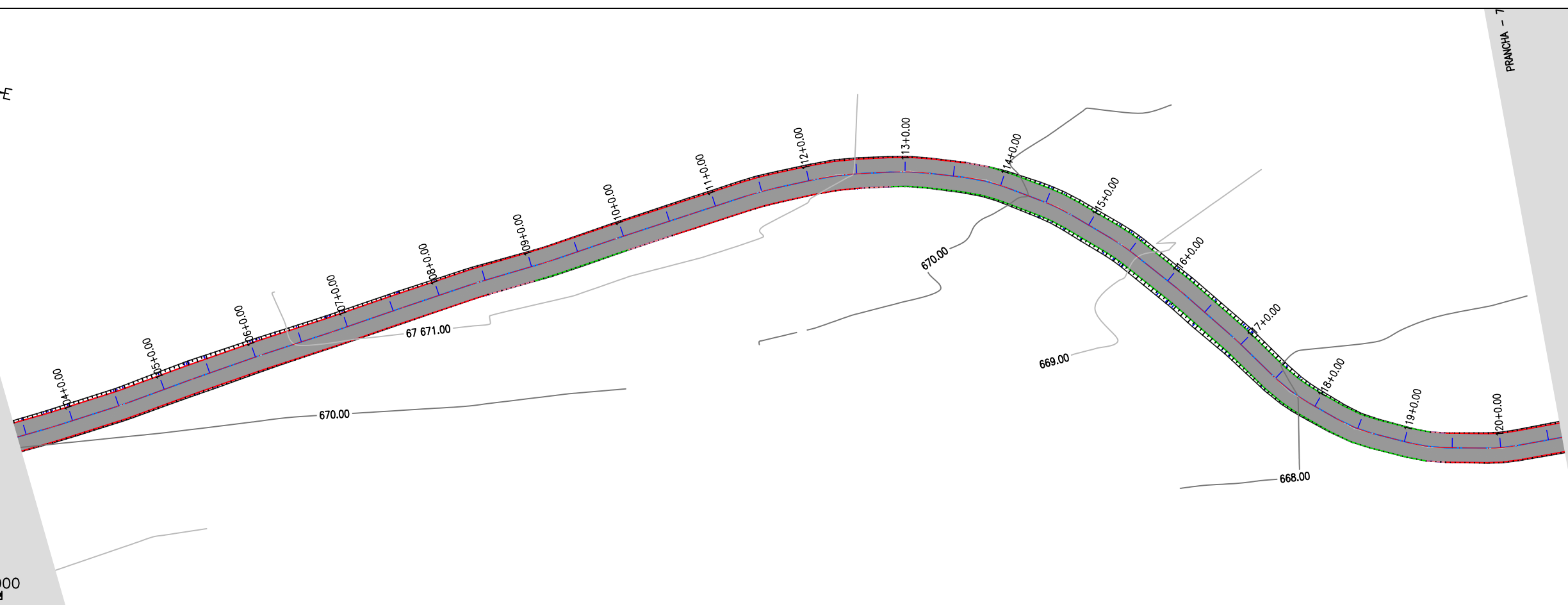
| | |
|-------------|--|
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

PRANCHA:
6 / 13

ESCALA:
 H 1/1000
 V 1/100



0 1000 2000



| Estaca | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cota do terreno | 670,134 | 670,260 | 670,571 | 670,876 | 671,167 | 671,362 | 671,377 | 671,426 | 671,376 | 671,157 | 670,768 | 670,239 | 669,442 | 668,751 | 668,145 | 667,928 | 7,576 | 667,295 |
| Cota da terraplenagem | 669,982 | 670,046 | 670,278 | 670,646 | 671,003 | 671,250 | 671,382 | 671,400 | 671,303 | 671,082 | 670,766 | 670,326 | 669,793 | 669,252 | 668,711 | 668,172 | 667,177 | 667,295 |
| Cota vertical | -0,152 | -0,213 | -0,293 | -0,230 | -0,164 | -0,113 | 0,005 | -0,027 | -0,073 | -0,086 | -0,002 | 0,086 | 0,351 | 0,501 | 0,566 | 0,244 | -0,028 | -0,028 |

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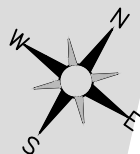
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|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
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| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |



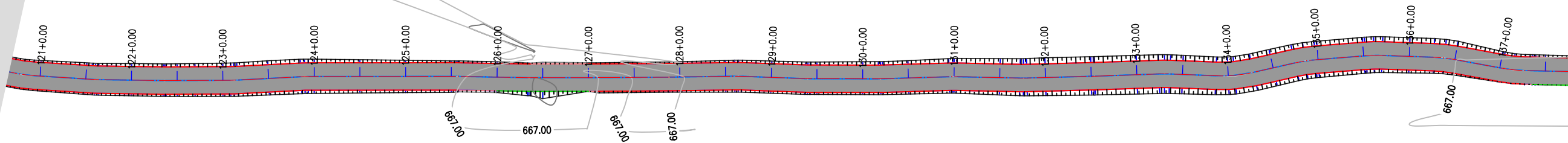
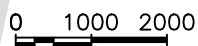
PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

| | |
|-------------|--|
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

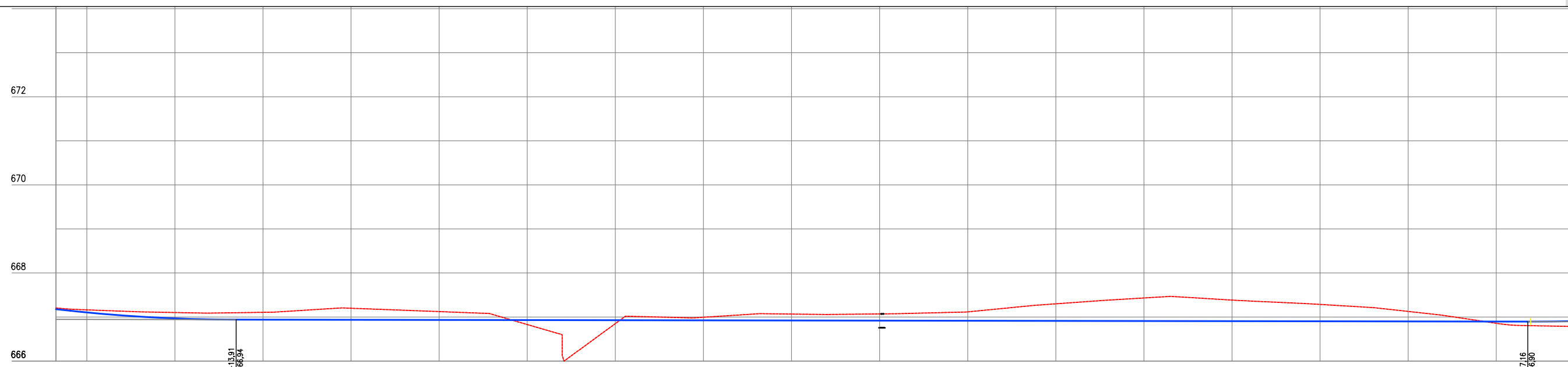
PRANCHA:
7 / 13
 ESCALA:
 H 1/1000
 V 1/100



PRANCHA - 7



PRANCHA



| Cota vermelha | Cota da terraplenagem | Cota do terreno | Estaca |
|---------------|-----------------------|-----------------|--------|
| -0,028 | 667,177 | 667,205 | 120 |
| -0,059 | 667,104 | 667,163 | 121 |
| -0,133 | 666,969 | 667,102 | 122 |
| -0,188 | 666,939 | 667,106 | 123 |
| -0,283 | 666,936 | 667,199 | 124 |
| -0,190 | 666,933 | 667,123 | 125 |
| 0,101 | 666,930 | 666,829 | 126 |
| 0,076 | 666,927 | 666,851 | 127 |
| -0,070 | 666,924 | 666,994 | 128 |
| -0,146 | 666,921 | 667,067 | 129 |
| -0,153 | 666,918 | 667,071 | 130 |
| -0,202 | 666,915 | 667,117 | 131 |
| -0,388 | 666,912 | 667,300 | 132 |
| -0,523 | 666,909 | 667,432 | 133 |
| -0,479 | 666,906 | 667,385 | 134 |
| -0,383 | 666,903 | 667,286 | 135 |
| -0,227 | 666,900 | 667,127 | 136 |
| | | 5,857 | 137 |
| | | 5,785 | 137 |

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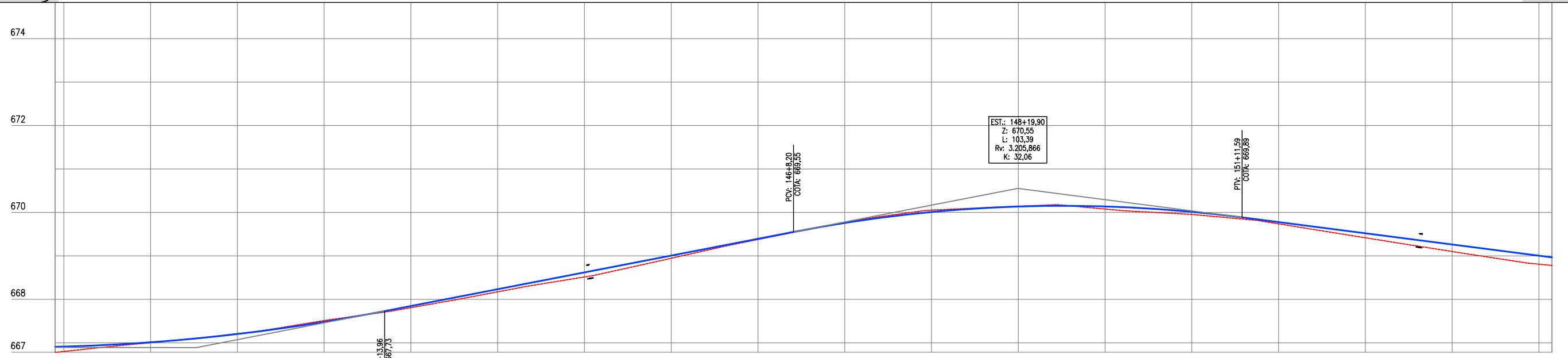
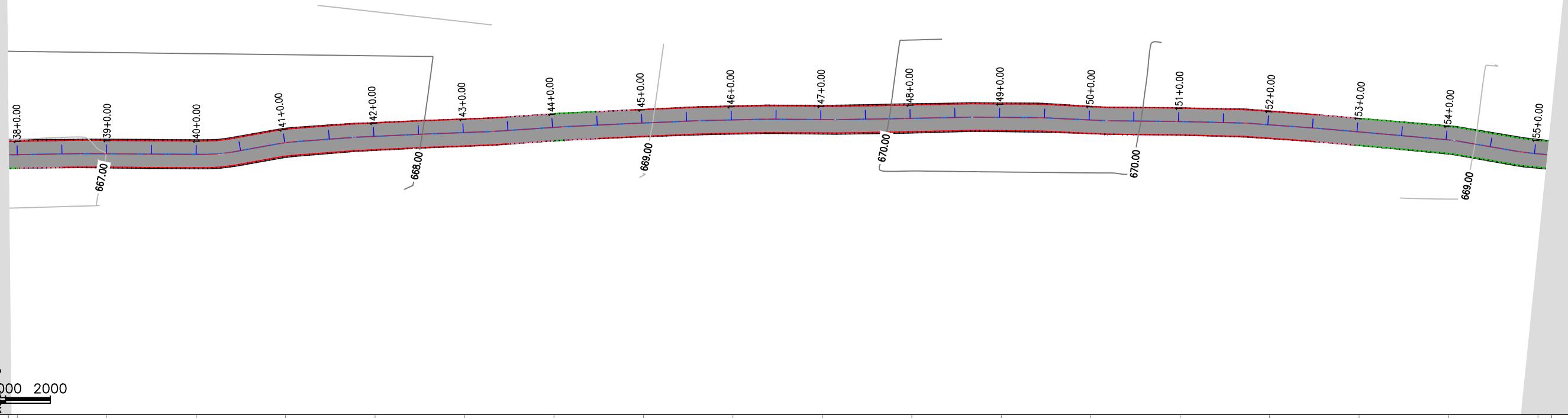
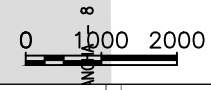
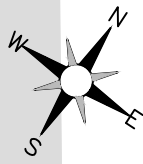
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|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
| | | | | | | | |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

| | |
|-------------|--|
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

PRANCHA:
8 / 13
 ESCALA:
 H 1/1000
 V 1/100



| Estaca | Cota do terreno | Cota da terrapiagem | Cota vermelha |
|--------|-----------------|---------------------|---------------|
| 137 | 666,785 | 666,907 | 0,123 |
| 138 | 666,901 | 666,912 | 0,112 |
| 139 | 667,002 | 667,012 | 0,010 |
| 140 | 667,210 | 667,202 | -0,008 |
| 141 | 667,511 | 667,481 | -0,030 |
| 142 | 667,809 | 667,846 | 0,037 |
| 143 | 668,173 | 668,233 | 0,060 |
| 144 | 668,515 | 668,620 | 0,105 |
| 145 | 668,945 | 669,007 | 0,062 |
| 146 | 669,377 | 669,394 | 0,017 |
| 147 | 669,772 | 669,759 | -0,013 |
| 148 | 670,053 | 670,010 | -0,042 |
| 149 | 670,142 | 670,136 | -0,006 |
| 150 | 670,078 | 670,136 | 0,060 |
| 151 | 669,954 | 670,015 | 0,061 |
| 152 | 669,738 | 669,778 | 0,040 |
| 153 | 669,417 | 669,520 | 0,103 |
| 154 | 3,100 | | |
| 155 | 3,809 | | |
| 155 | 3,780 | | |

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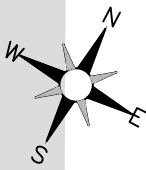
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|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
| | | | | | | | |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |



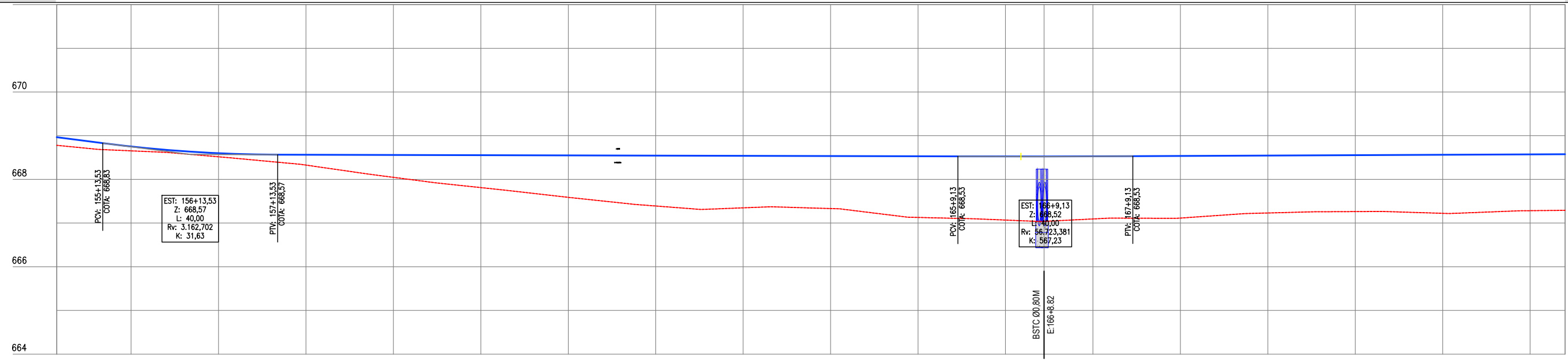
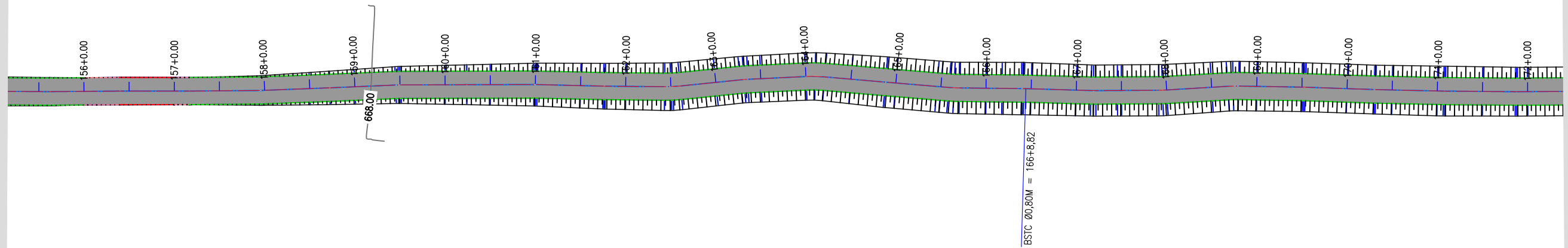
PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

| | |
|-------------|--|
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

PRANCHA:
9 / 13
 ESCALA:
 H 1/1000
 V 1/100



PRANCHA - 9
0 1000 2000



| Cota vermelha | Cota da terraplenagem | Cota do terreno | Estaca |
|---------------|-----------------------|-----------------|----------|
| 0,185 | 668,985 | 668,780 | 155 |
| 0,099 | 668,752 | 668,653 | 156 |
| 0,082 | 668,598 | 668,516 | 157 |
| 0,237 | 668,564 | 668,327 | 158 |
| 0,512 | 668,559 | 668,047 | 159 |
| 0,742 | 668,554 | 667,812 | 160 |
| 0,980 | 668,549 | 667,588 | 161 |
| 1,153 | 668,544 | 667,391 | 162 |
| 1,190 | 668,539 | 667,348 | 163 |
| 1,202 | 668,534 | 667,332 | 164 |
| 1,400 | 668,529 | 667,129 | 165 |
| 1,456 | 668,525 | 667,089 | 166 |
| 1,486 | 668,525 | 667,038 | 166+8,82 |
| 1,433 | 668,527 | 667,094 | 167 |
| 1,421 | 668,535 | 667,114 | 168 |
| 1,314 | 668,544 | 667,231 | 169 |
| 1,290 | 668,553 | 667,263 | 170 |
| | | 7,223 | 171 |
| | | 7,283 | 172 |
| | | 7,291 | 172 |

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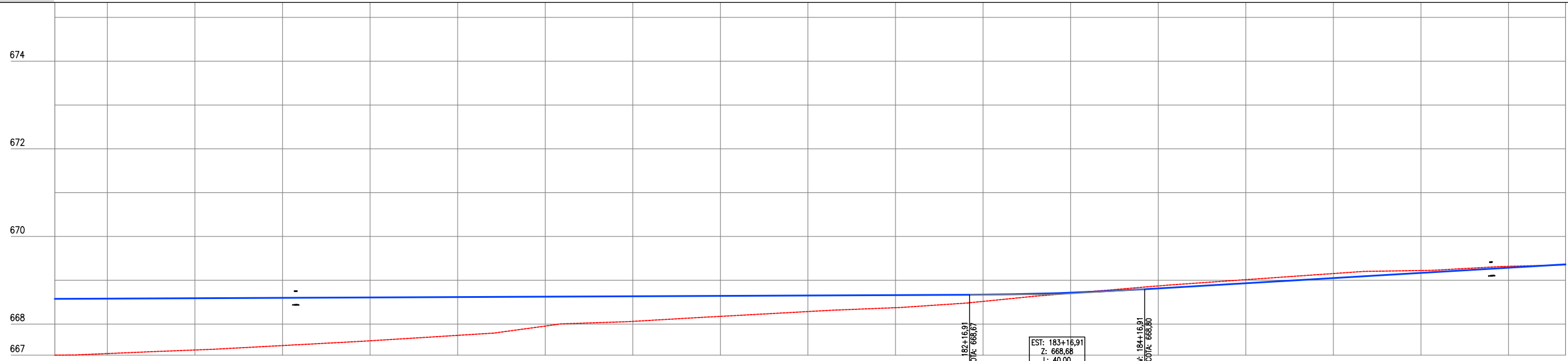
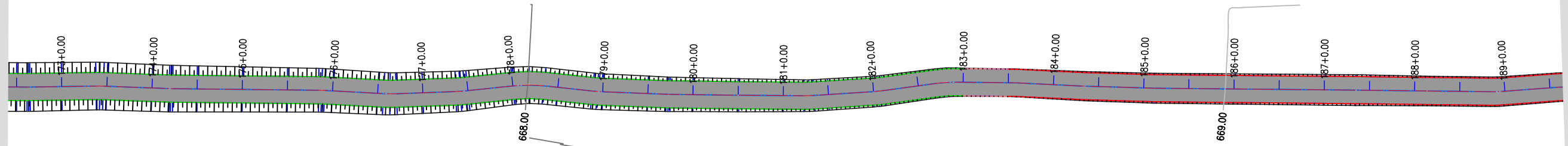
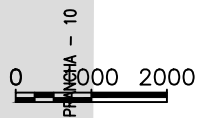
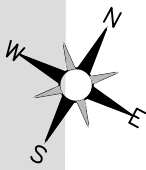
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|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
| | | | | | | | |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

| | |
|-------------|--|
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

PRANCHA:
10 / 13
 ESCALA:
 H 1/1000
 V 1/100



| Cota Vermelha | Cota da terraplenagem | Cota do terreno | Estaca |
|---------------|-----------------------|-----------------|--------|
| 1,283 | 668,575 | 667,291 | 172 |
| 1,253 | 668,580 | 667,327 | 173 |
| 1,181 | 668,589 | 667,409 | 174 |
| 1,089 | 668,598 | 667,510 | 175 |
| 0,989 | 668,607 | 667,619 | 176 |
| 0,874 | 668,616 | 667,743 | 177 |
| 0,671 | 668,625 | 667,954 | 178 |
| 0,572 | 668,634 | 668,082 | 179 |
| 0,467 | 668,643 | 668,176 | 180 |
| 0,367 | 668,652 | 668,286 | 181 |
| 0,288 | 668,661 | 668,374 | 182 |
| 0,194 | 668,671 | 668,517 | 183 |
| 0,072 | 668,716 | 668,704 | 184 |
| -0,056 | 668,814 | 668,870 | 185 |
| -0,081 | 668,932 | 669,014 | 186 |
| -0,103 | 669,050 | 669,153 | 187 |
| | | 3,223 | 188 |
| | | 3,318 | 189 |
| | | 9,351 | 189 |

EST: 183+16,91
Z: 668,68
L: 40,00
Ry: 7,347,599
K: 73,48

PTV: 184+16,91
COTA: 668,80

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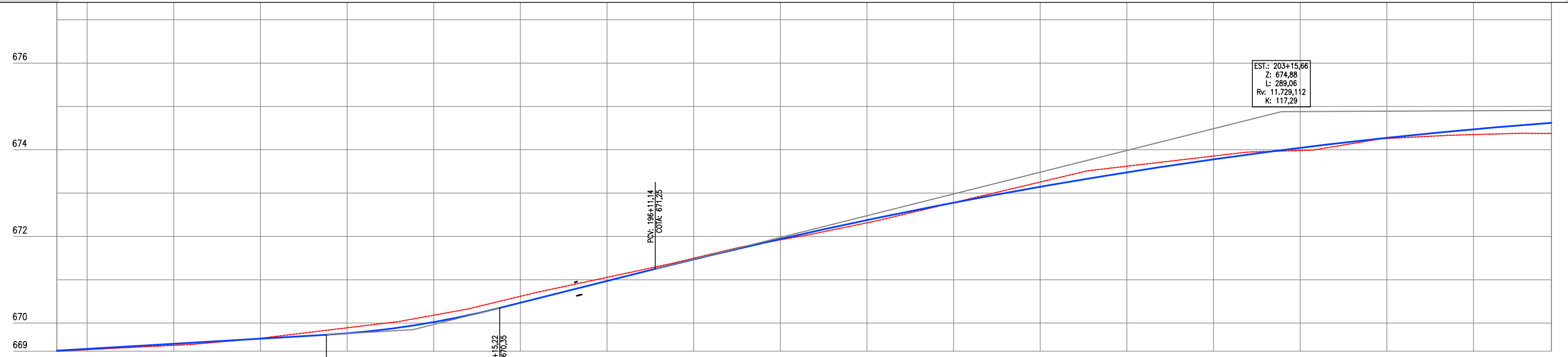
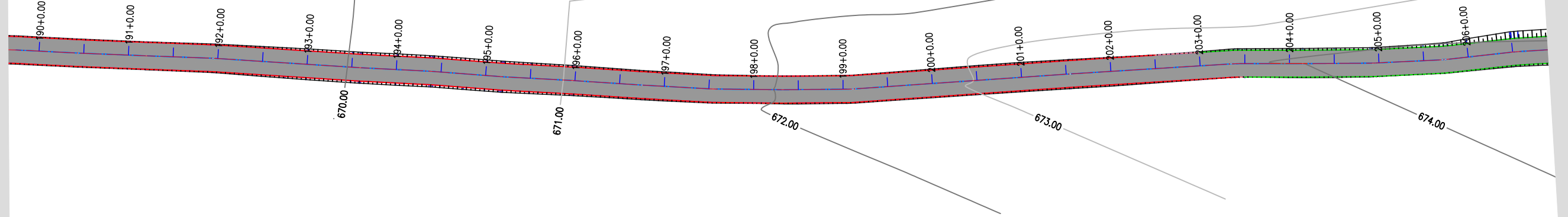
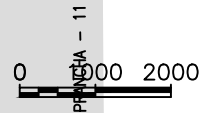
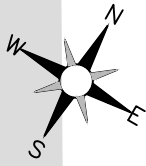
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|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
| | | | | | | | |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG

PRANCHA:
11 / 13
ESCALA:
H 1/1000
V 1/100



| Estaca | Cota do terreno | Cota da terraplenagem | Cota vermelha |
|--------|-----------------|-----------------------|---------------|
| 189 | 669,351 | 669,362 | 0,011 |
| 190 | 669,387 | 669,404 | 0,017 |
| 191 | 669,487 | 669,522 | 0,034 |
| 192 | 669,650 | 669,640 | -0,010 |
| 193 | 669,891 | 669,763 | -0,128 |
| 194 | 670,182 | 670,023 | -0,159 |
| 195 | 670,618 | 670,469 | -0,149 |
| 196 | 671,056 | 670,972 | -0,084 |
| 197 | 671,496 | 671,470 | -0,026 |
| 198 | 671,920 | 671,940 | 0,020 |
| 199 | 672,313 | 672,376 | 0,063 |
| 200 | 672,781 | 672,778 | -0,003 |
| 201 | 673,256 | 673,146 | -0,110 |
| 202 | 673,621 | 673,479 | -0,141 |
| 203 | 673,855 | 673,779 | -0,076 |
| 204 | 673,983 | 674,044 | 0,061 |
| 205 | 674,261 | 674,276 | 0,015 |
| 206 | 674,377 | 674,350 | -0,027 |

| | | | | | | | |
|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
| | | | | | | | |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |

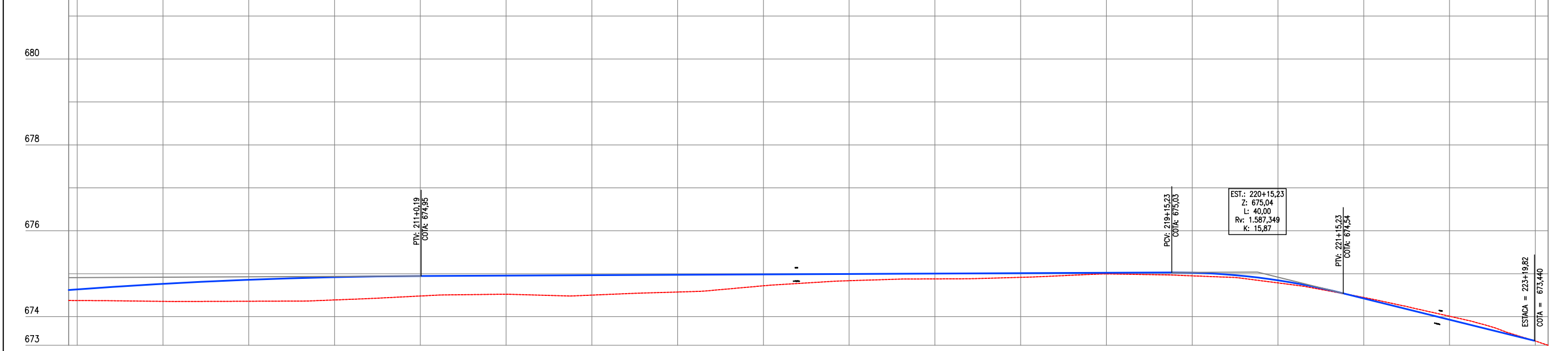
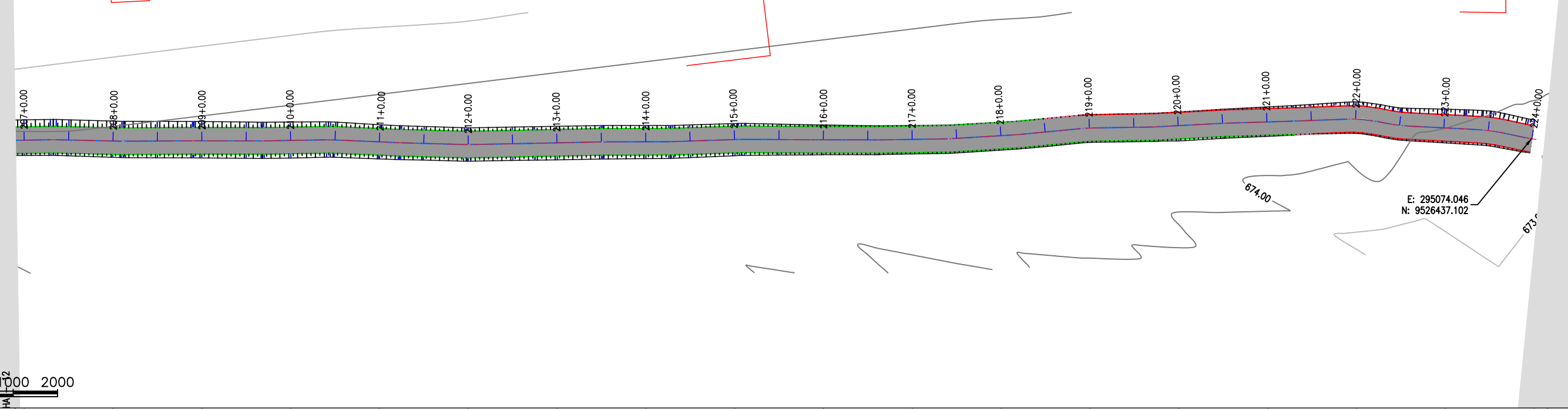
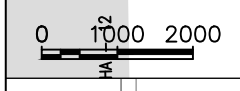
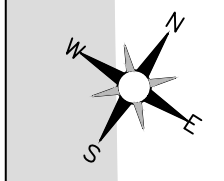


PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: 21-SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG

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 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE

PRANCHA:
12 / 13
 ESCALA:
 H 1/1000
 V 1/100



| Cota Vermelha | Cota da terraplenagem | Cota do terreno | Estaca |
|---------------|-----------------------|-----------------|--------|
| 0,244 | 674,821 | 674,377 | 206 |
| 0,260 | 674,836 | 674,376 | 207 |
| 0,409 | 674,765 | 674,356 | 208 |
| 0,501 | 674,860 | 674,359 | 209 |
| 0,531 | 674,921 | 674,389 | 210 |
| 0,466 | 674,947 | 674,481 | 211 |
| 0,435 | 674,957 | 674,521 | 212 |
| 0,464 | 674,966 | 674,502 | 213 |
| 0,401 | 674,975 | 674,574 | 214 |
| 0,266 | 674,984 | 674,719 | 215 |
| 0,156 | 674,994 | 674,838 | 216 |
| 0,124 | 675,003 | 674,879 | 217 |
| 0,096 | 675,012 | 674,917 | 218 |
| 0,026 | 675,022 | 674,996 | 219 |
| 0,073 | 675,024 | 674,951 | 220 |
| 0,061 | 674,947 | 674,786 | 221 |
| -0,022 | 674,425 | 674,447 | 222 |
| | | 6,010 | 223 |
| | | 3,435 | 224 |
| | | 3,335 | 224 |

| | | | | | | | |
|-----------------|-----------|---------|-------|--------|--------|-------|-----------------|
| | | | | | | | |
| TERRENO NATURAL | PROJETADO | ESTRADA | BORDO | TALUDE | ATERRO | CORTE | CURVAS DE NÍVEL |

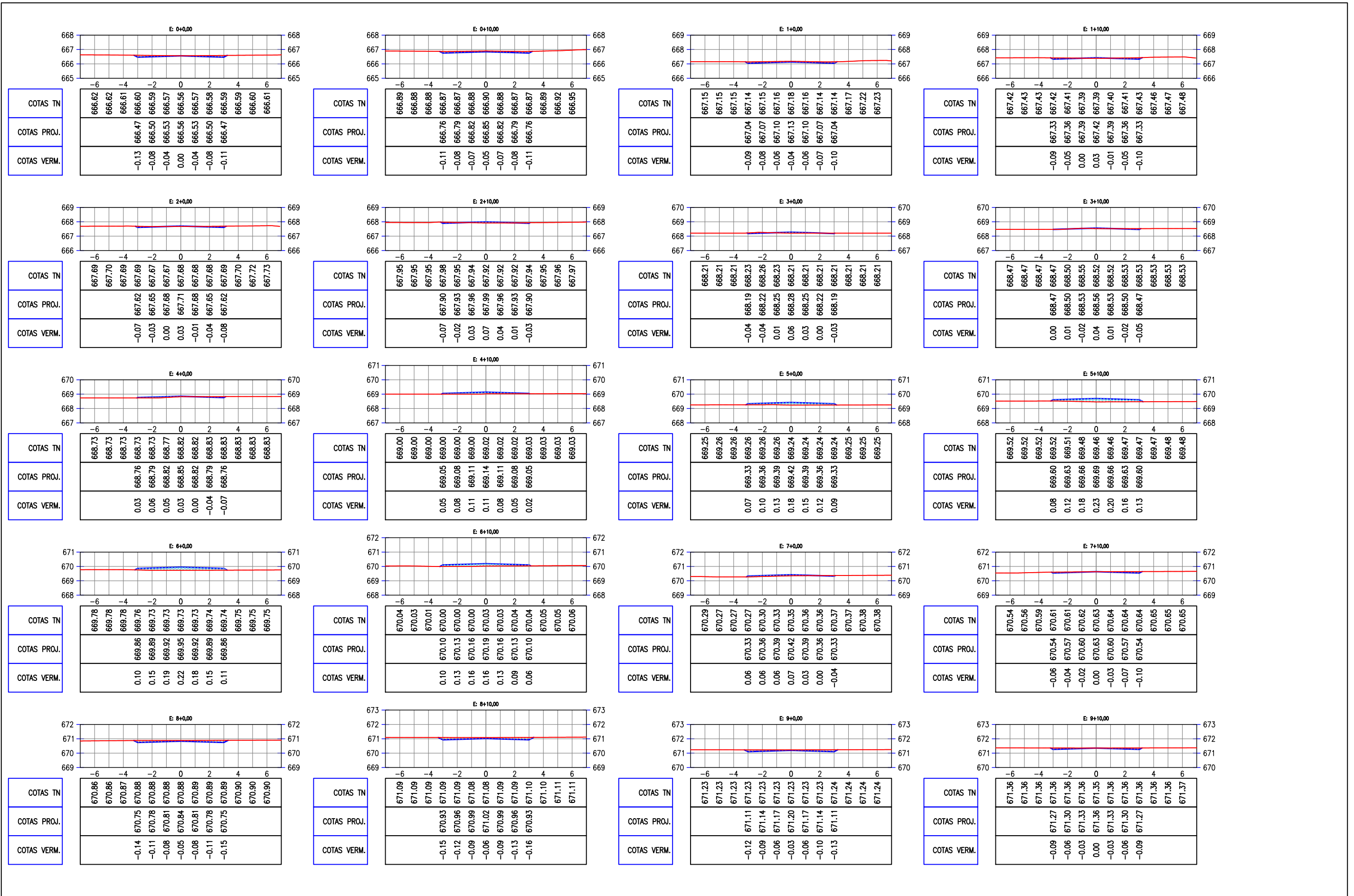


PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
ESTAQUEAMENTO E PERFIL LONGITUDINAL

| | |
|-------------|--|
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - GEO_R01.DWG |

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 Arthur Moreira Torquato
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FRANCHA: **13 / 13**
 ESCALA: **H 1/1000**
V 1/100



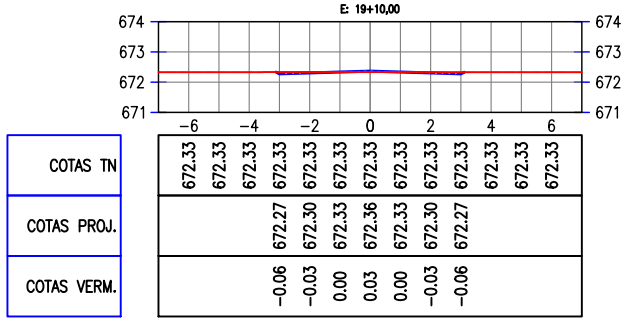
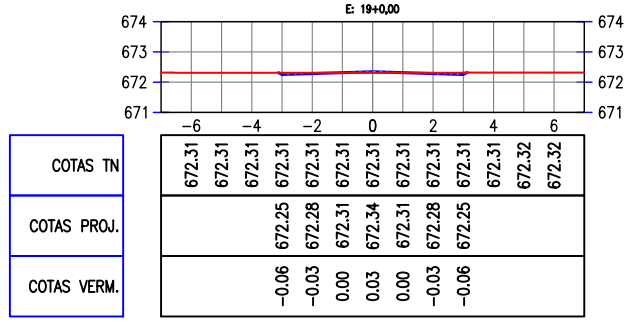
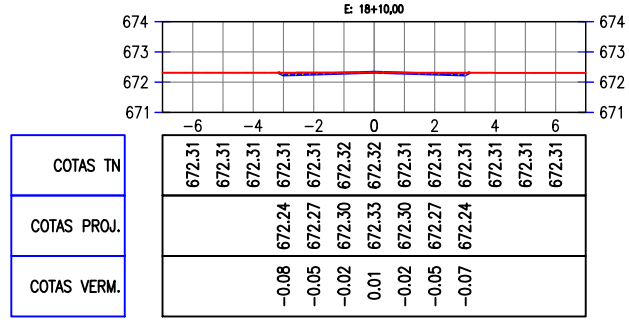
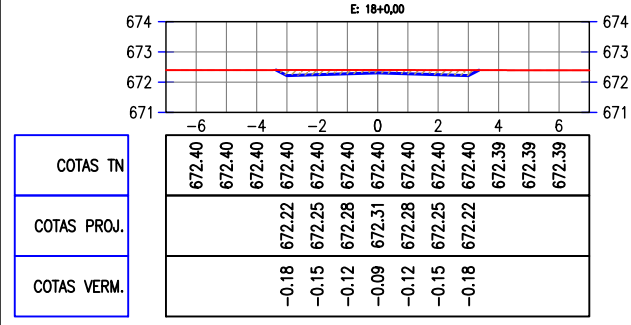
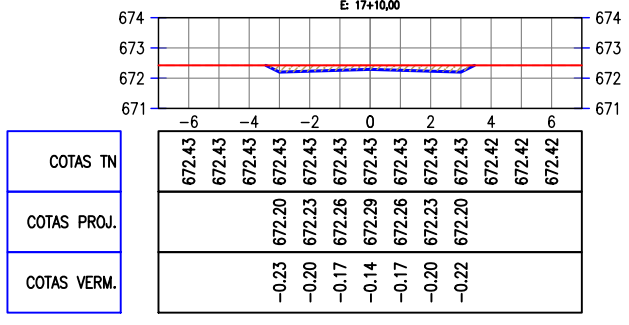
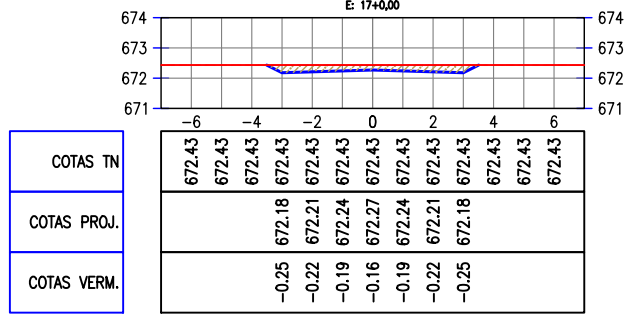
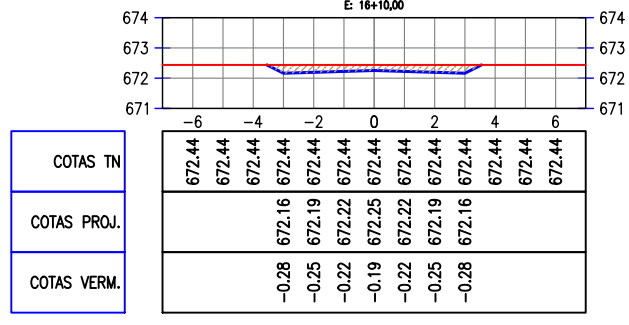
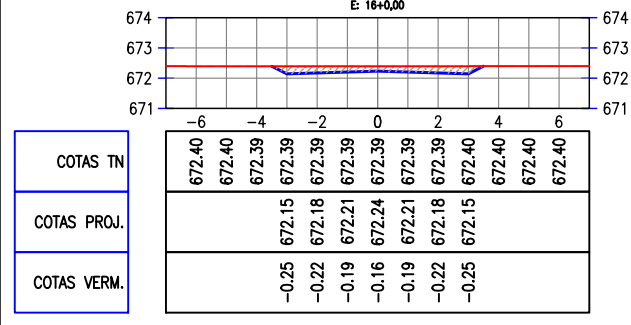
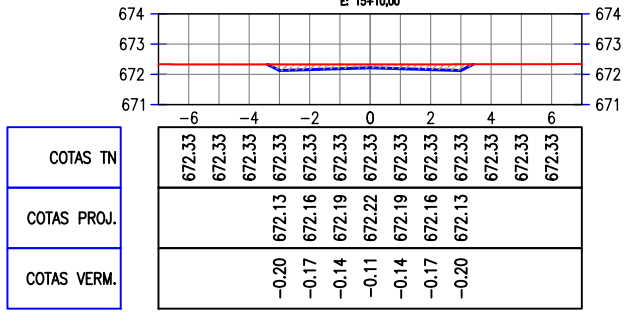
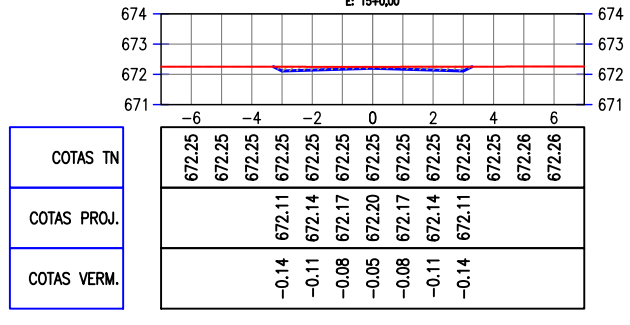
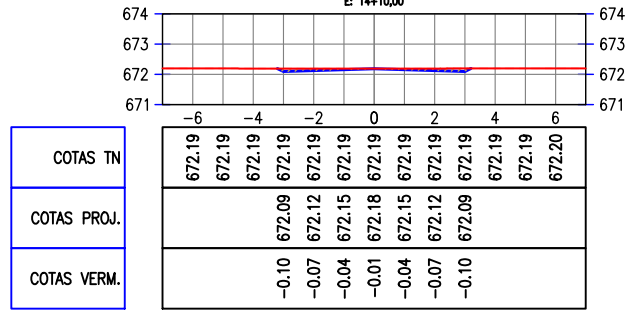
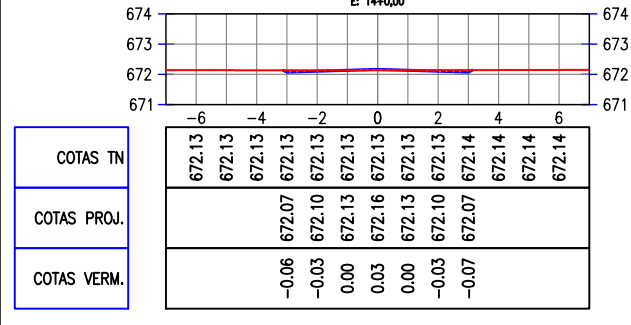
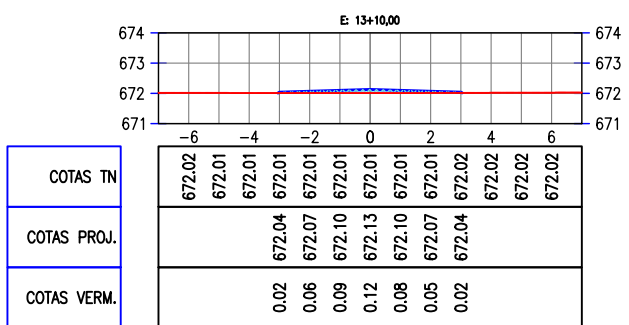
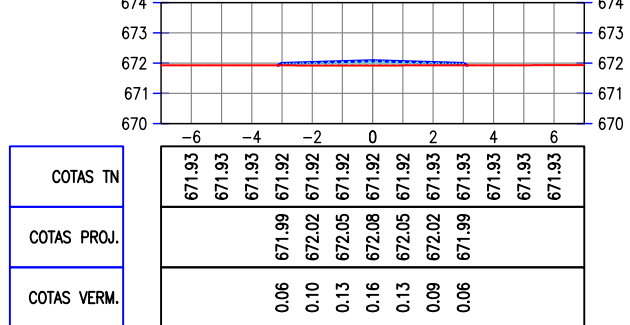
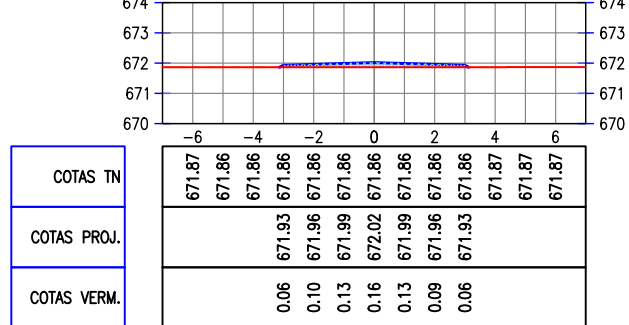
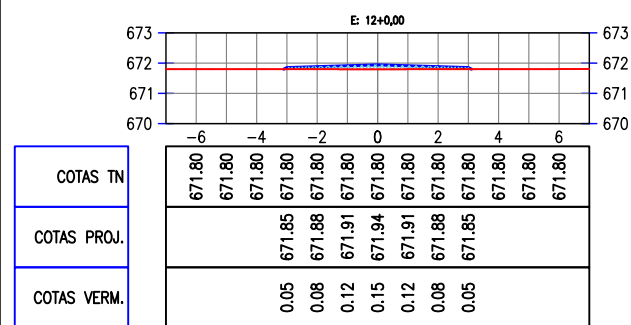
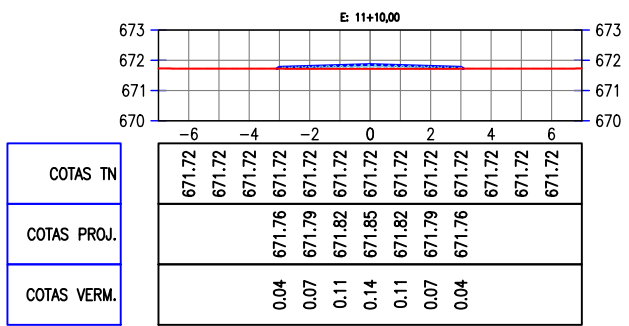
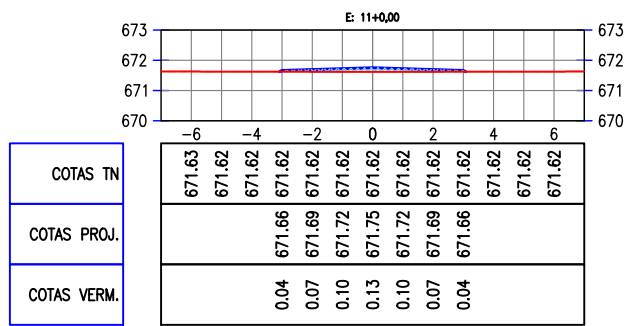
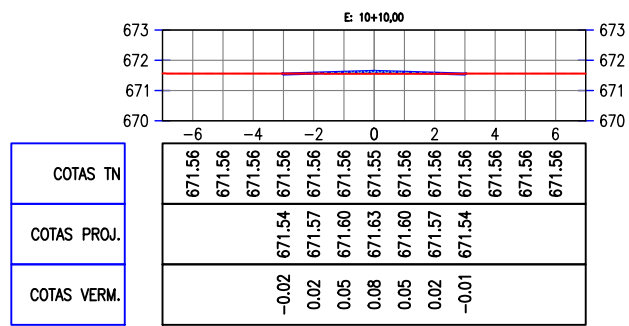
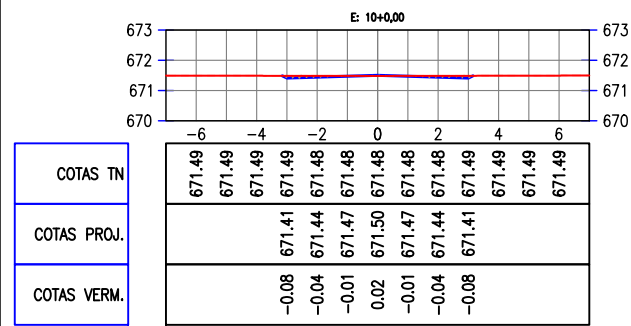
LEGENDA:




JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE




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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | | PRANCHA: 1 / 23 |
| PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | ESCALA: 1/250 | |



LEGENDA:

 ATERRO

 CORTE


 JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE

RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03

SEÇÕES TRANSVERSAIS

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE

ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG

PRANCHA: 2 / 23

ESCALA: 1/250



LEGENDA:

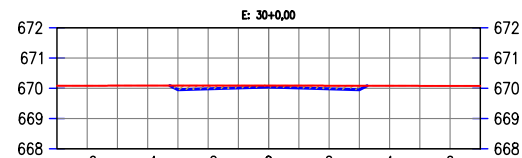
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| | ATERRO |
| | CORTE |

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE

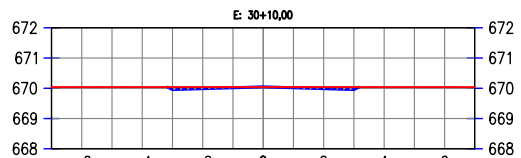


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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG |

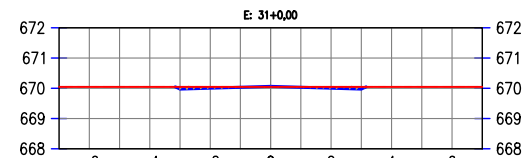
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| PRANCHA: | 3 / 23 |
| ESCALA: | 1/250 |



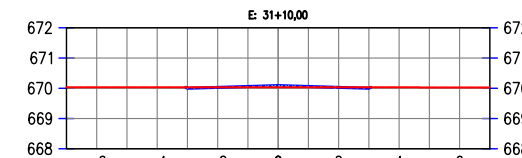
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| COTAS TN | 670.08 670.09 670.09 670.09 670.09 670.09 670.08 670.08 |
| COTAS PROJ. | 669.95 669.98 670.01 670.04 670.01 669.98 669.95 |
| COTAS VERM. | -0.13 -0.11 -0.08 -0.05 -0.07 -0.10 -0.13 |



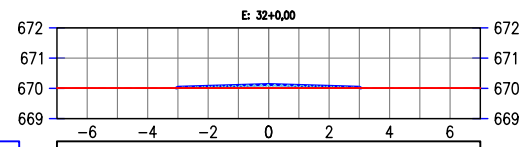
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| COTAS TN | 670.04 670.04 670.04 670.04 670.04 670.04 670.04 670.04 |
| COTAS PROJ. | 669.95 669.98 670.01 670.04 670.01 669.98 669.95 |
| COTAS VERM. | -0.08 -0.05 -0.02 0.01 -0.02 -0.05 -0.08 |



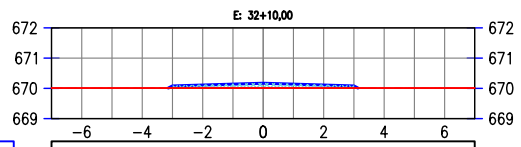
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| COTAS TN | 670.05 670.05 670.05 670.05 670.05 670.05 670.05 670.05 |
| COTAS PROJ. | 669.97 670.00 670.03 670.06 670.03 670.00 669.97 |
| COTAS VERM. | -0.08 -0.05 -0.02 0.01 -0.02 -0.05 -0.08 |



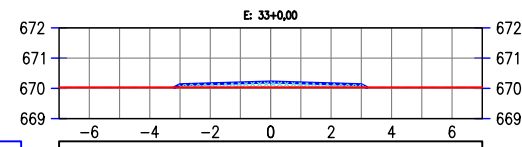
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|-------------|--|
| COTAS TN | 670.03 670.03 670.03 670.03 670.03 670.03 670.03 670.03 |
| COTAS PROJ. | 670.00 670.03 670.06 670.09 670.06 670.03 670.00 |
| COTAS VERM. | -0.03 0.00 0.03 0.06 0.03 0.00 -0.03 |



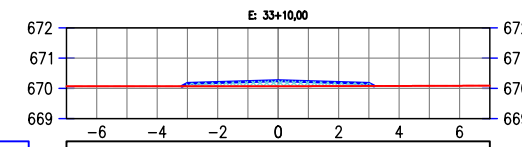
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| COTAS TN | 670.01 670.01 670.01 670.01 670.01 670.01 670.01 670.01 |
| COTAS PROJ. | 670.04 670.07 670.10 670.13 670.10 670.07 670.04 |
| COTAS VERM. | 0.02 0.05 0.08 0.11 0.08 0.05 0.02 |



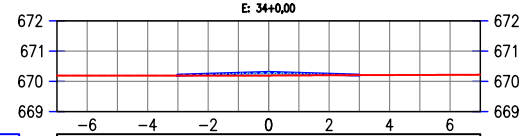
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| COTAS PROJ. | 670.08 670.11 670.14 670.17 670.14 670.11 670.08 |
| COTAS VERM. | 0.07 0.10 0.13 0.16 0.13 0.10 0.07 |



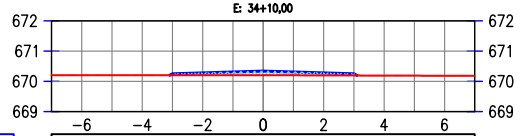
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| COTAS TN | 670.03 670.03 670.03 670.03 670.03 670.03 670.03 670.03 |
| COTAS PROJ. | 670.12 670.15 670.18 670.21 670.18 670.15 670.12 |
| COTAS VERM. | 0.09 0.12 0.15 0.18 0.15 0.12 0.09 |



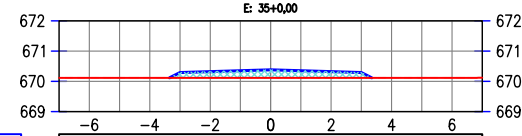
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| COTAS TN | 670.07 670.07 670.07 670.07 670.07 670.07 670.08 670.08 |
| COTAS PROJ. | 670.16 670.19 670.22 670.25 670.22 670.19 670.16 |
| COTAS VERM. | 0.09 0.12 0.15 0.18 0.15 0.12 0.08 |



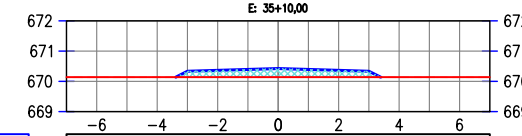
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| COTAS TN | 670.19 670.19 670.19 670.19 670.20 670.20 670.21 670.21 |
| COTAS PROJ. | 670.20 670.23 670.26 670.29 670.26 670.23 670.20 |
| COTAS VERM. | 0.01 0.04 0.07 0.10 0.07 0.03 0.00 |



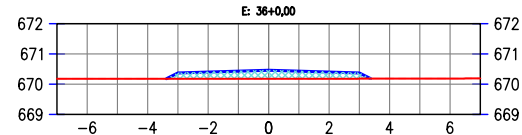
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| COTAS TN | 670.20 670.20 670.20 670.20 670.20 670.19 670.19 670.18 |
| COTAS PROJ. | 670.25 670.28 670.31 670.34 670.31 670.28 670.25 |
| COTAS VERM. | 0.05 0.08 0.11 0.14 0.11 0.08 0.05 |



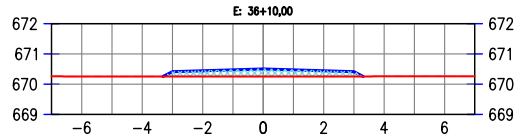
| | |
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| COTAS TN | 670.11 670.11 670.11 670.11 670.11 670.12 670.12 670.12 |
| COTAS PROJ. | 670.29 670.32 670.35 670.38 670.35 670.32 670.29 |
| COTAS VERM. | 0.17 0.20 0.23 0.26 0.23 0.20 0.17 |



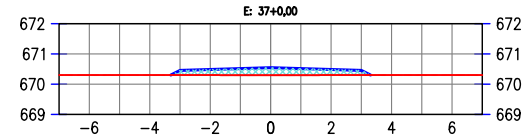
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|-------------|--|
| COTAS TN | 670.13 670.13 670.13 670.13 670.13 670.13 670.14 670.14 |
| COTAS PROJ. | 670.33 670.36 670.39 670.42 670.39 670.36 670.33 |
| COTAS VERM. | 0.20 0.23 0.26 0.29 0.26 0.22 0.19 |



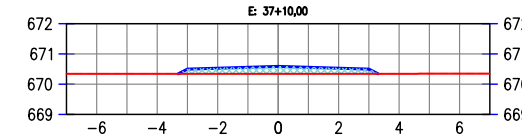
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| COTAS TN | 670.18 670.18 670.18 670.18 670.18 670.19 670.19 670.19 |
| COTAS PROJ. | 670.37 670.40 670.43 670.46 670.43 670.40 670.37 |
| COTAS VERM. | 0.19 0.22 0.25 0.28 0.25 0.22 0.19 |



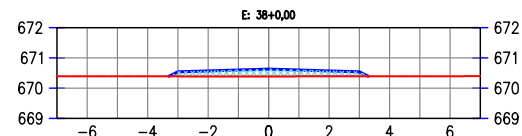
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| COTAS TN | 670.26 670.26 670.26 670.25 670.25 670.25 670.26 670.26 |
| COTAS PROJ. | 670.41 670.44 670.47 670.50 670.47 670.44 670.41 |
| COTAS VERM. | 0.16 0.19 0.22 0.25 0.22 0.19 0.16 |



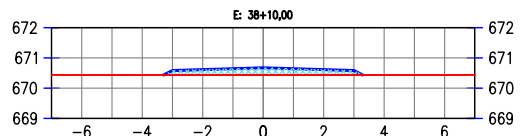
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|-------------|--|
| COTAS TN | 670.30 670.30 670.30 670.30 670.30 670.30 670.30 670.30 |
| COTAS PROJ. | 670.45 670.48 670.51 670.54 670.51 670.48 670.45 |
| COTAS VERM. | 0.15 0.18 0.21 0.25 0.21 0.18 0.15 |



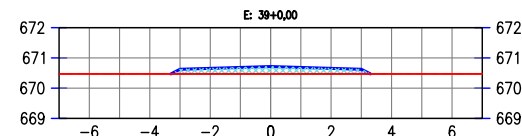
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| COTAS TN | 670.35 670.34 670.34 670.34 670.34 670.34 670.35 670.35 |
| COTAS PROJ. | 670.50 670.53 670.56 670.59 670.56 670.53 670.50 |
| COTAS VERM. | 0.15 0.18 0.21 0.24 0.21 0.18 0.15 |



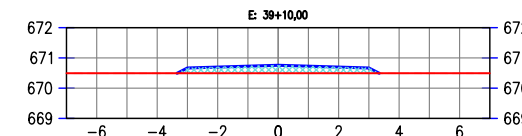
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| COTAS TN | 670.39 670.39 670.39 670.39 670.39 670.39 670.39 670.39 |
| COTAS PROJ. | 670.54 670.57 670.60 670.63 670.60 670.57 670.54 |
| COTAS VERM. | 0.15 0.18 0.21 0.24 0.21 0.18 0.15 |



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| COTAS TN | 670.44 670.43 670.43 670.43 670.43 670.43 670.43 670.44 |
| COTAS PROJ. | 670.58 670.61 670.64 670.67 670.64 670.61 670.58 |
| COTAS VERM. | 0.15 0.18 0.21 0.24 0.21 0.18 0.15 |



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|-------------|--|
| COTAS TN | 670.47 670.47 670.47 670.47 670.47 670.47 670.47 670.47 |
| COTAS PROJ. | 670.62 670.65 670.68 670.71 670.68 670.65 670.62 |
| COTAS VERM. | 0.15 0.18 0.21 0.24 0.21 0.18 0.15 |



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|-------------|--|
| COTAS TN | 670.49 670.49 670.49 670.49 670.49 670.49 670.49 670.49 |
| COTAS PROJ. | 670.66 670.69 670.72 670.75 670.72 670.69 670.66 |
| COTAS VERM. | 0.17 0.20 0.23 0.26 0.23 0.20 0.17 |

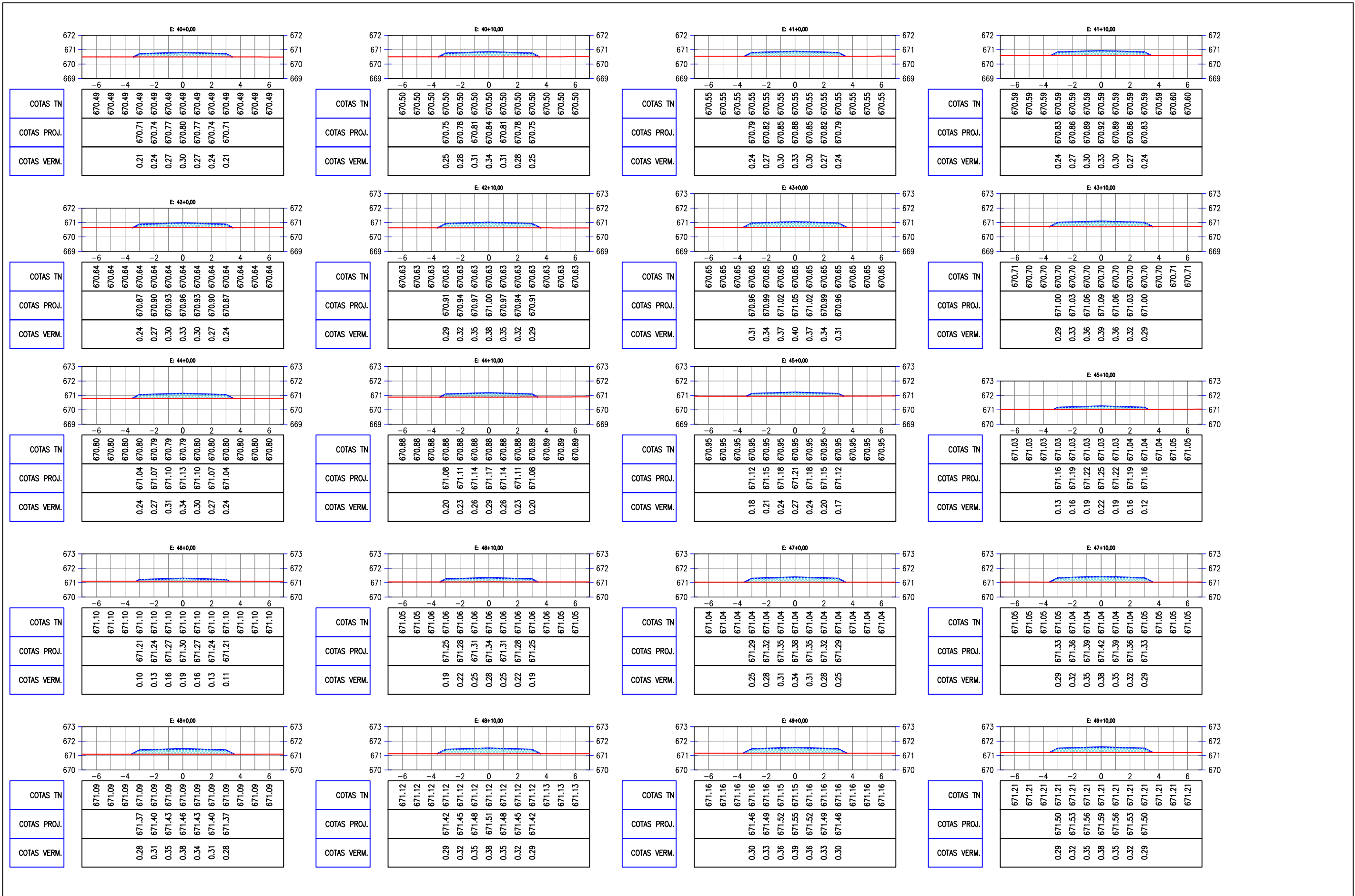
LEGENDA:

Artur Moreira Torquato
 JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
 RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
SEÇÕES TRANSVERSAIS
 PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG

PRANCHA:
 4 / 23
 ESCALA:
 1/250



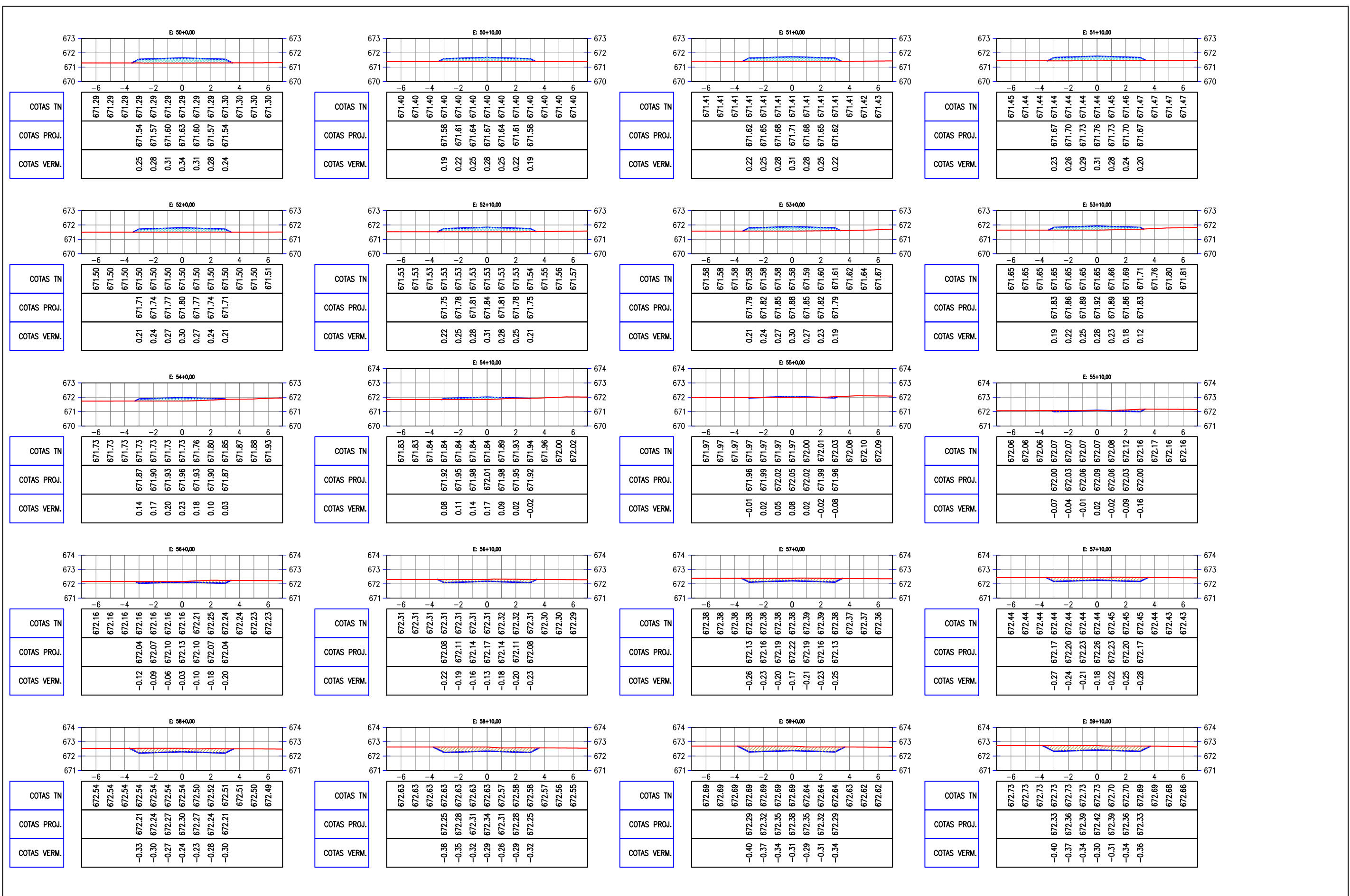
LEGENDA:




 JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE




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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | | PRANCHA: 5 / 23 |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE | ESCALA: 1/250 |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | |




LEGENDA:

- ATERRO
- CORTE



JOTA BARROS PROJETOS
Arthur Moreira Torquato
Engº Civil - CREA 53900D - CE



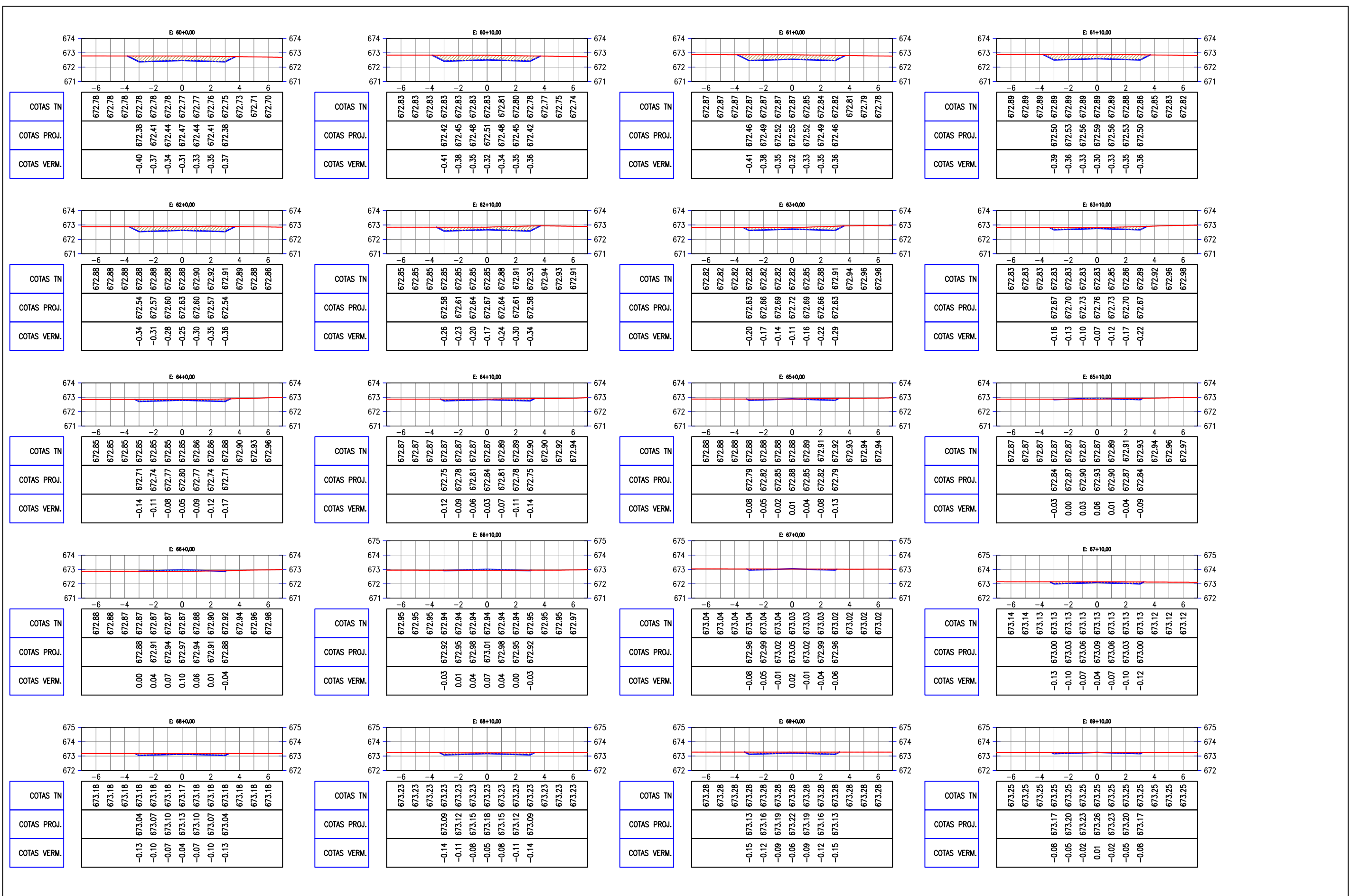
**JOTA BARROS
PROJETOS**

PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03
SEÇÕES TRANSVERSAIS

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG

PRANCHA:
6 / 23

ESCALA:
1/250



LEGENDA:

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| | ATERRO |
| | CORTE |


JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE




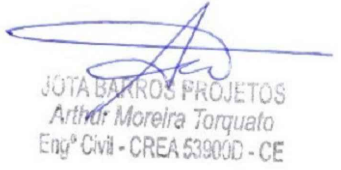
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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | | PRANCHA: 7 / 23 |
| PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | ESCALA: 1/250 | |




LEGENDA:

 **ATERRO**

 **CORTE**



JOTA BARROS PROJETOS
Arthur Moreira Torquato
Engº Civil - CREA 53900D - CE



**JOTA BARROS
PROJETOS**

PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE

RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03

SEÇÕES TRANSVERSAIS

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE

ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG

PRANCHA:

8 / 23

ESCALA:

1/250



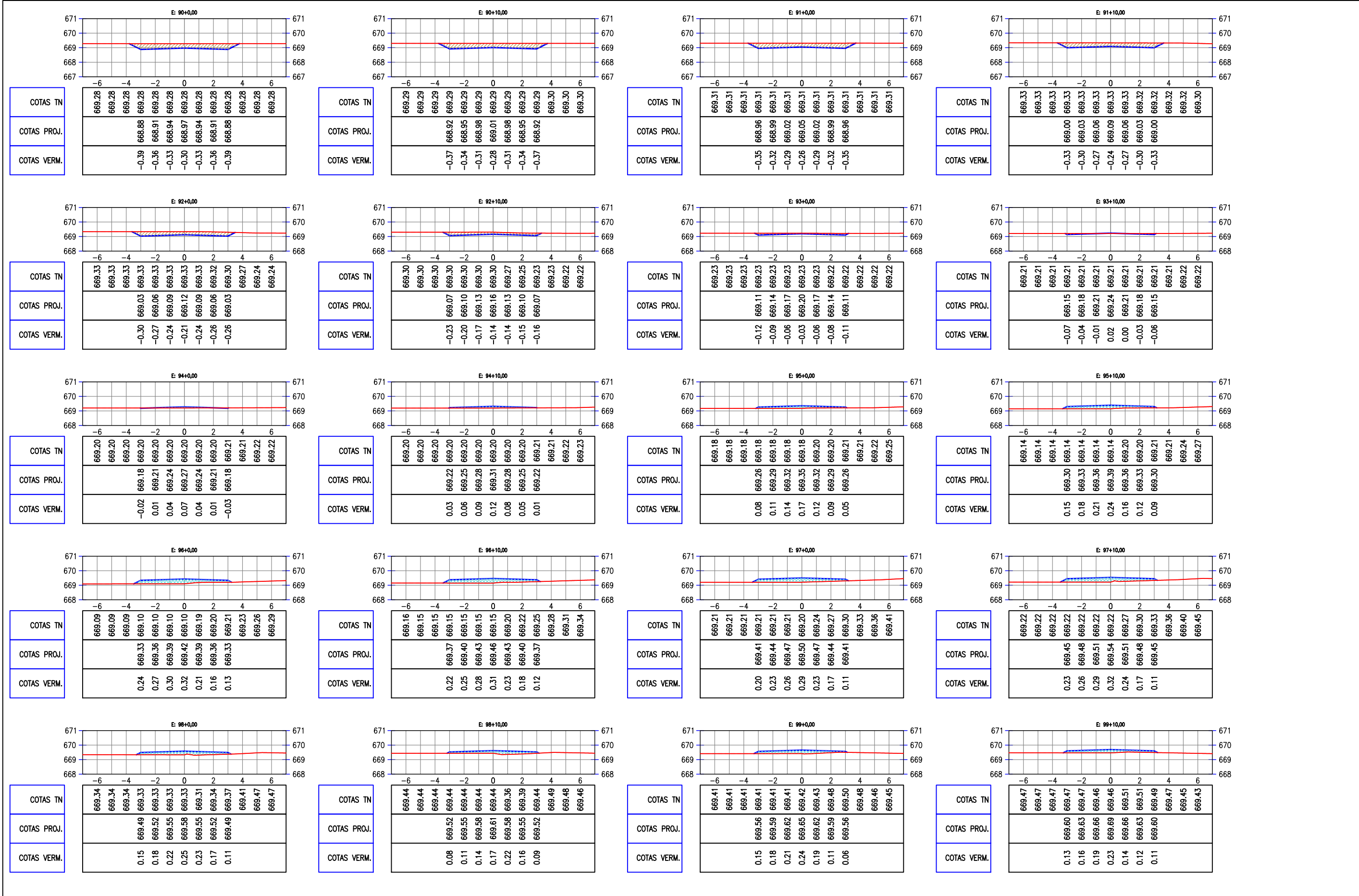
LEGENDA:




 JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE



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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | | PRANCHA: 9 / 23 |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE | ESCALA: 1/250 |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | |



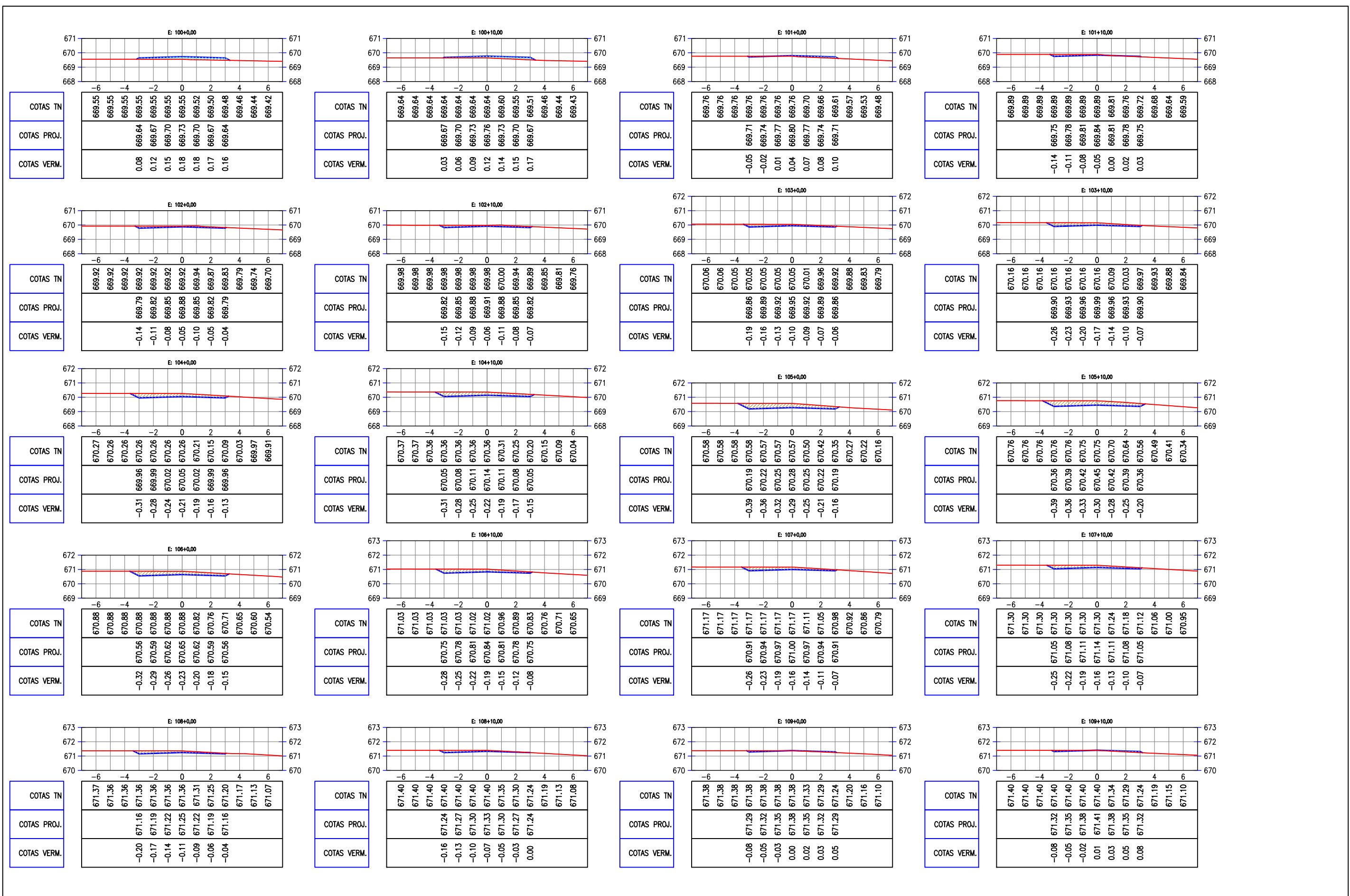
LEGENDA:

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|--|--------|
| | ATERRO |
| | CORTE |

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE



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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | | PRANCHA: 10 / 23 |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE | ESCALA: 1/250 |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | |



LEGENDA:

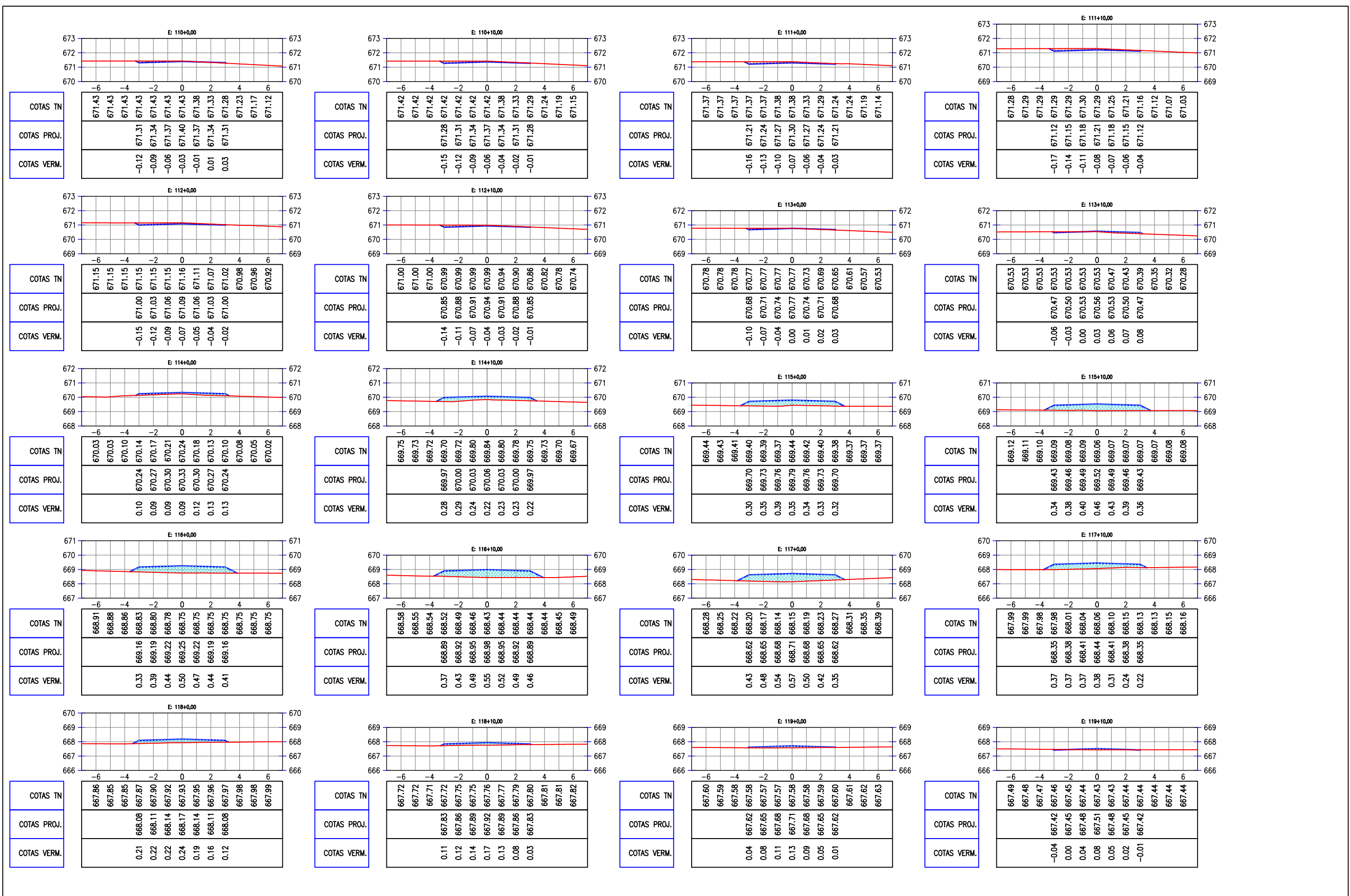
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| | ATERRO |
| | CORTE |

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Eng.º Civil - CREA 53900D - CE



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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SEÇÕES TRANSVERSAIS | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG |

| | |
|----------|----------------|
| PRANCHA: | 11 / 23 |
| ESCALA: | 1/250 |



LEGENDA:

- ATERRO
- CORTE

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE

**JOTA BARROS
PROJETOS**

PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE

RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03

SEÇÕES TRANSVERSAIS

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE

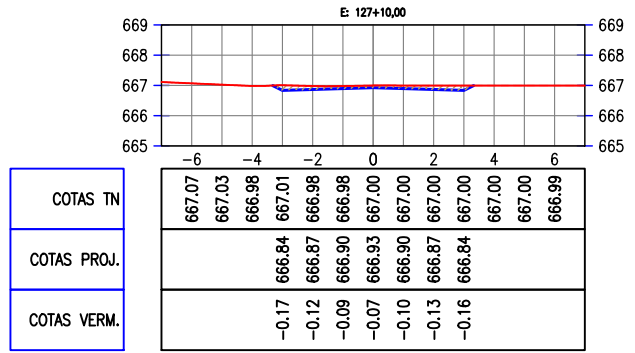
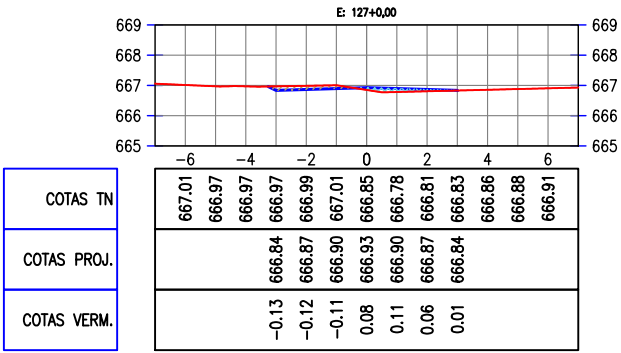
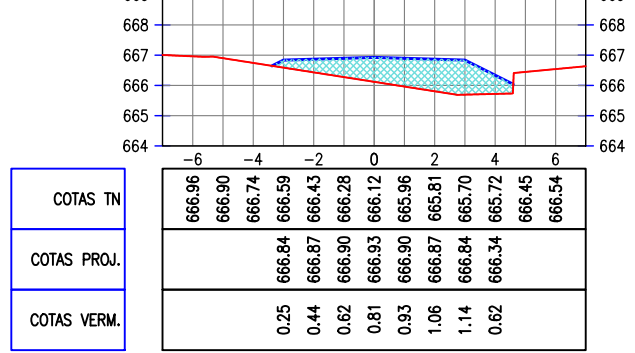
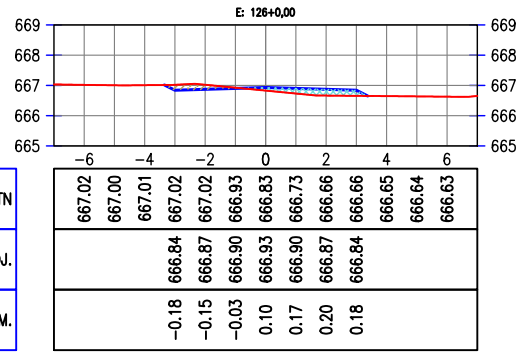
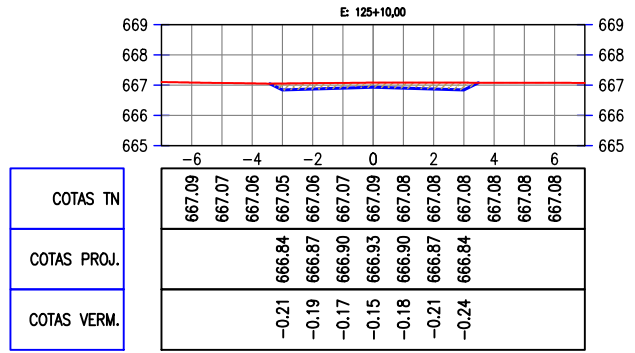
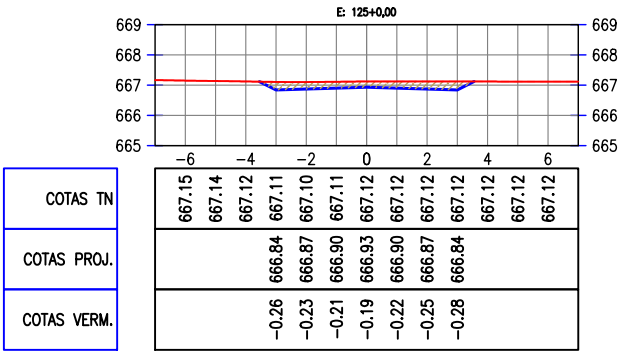
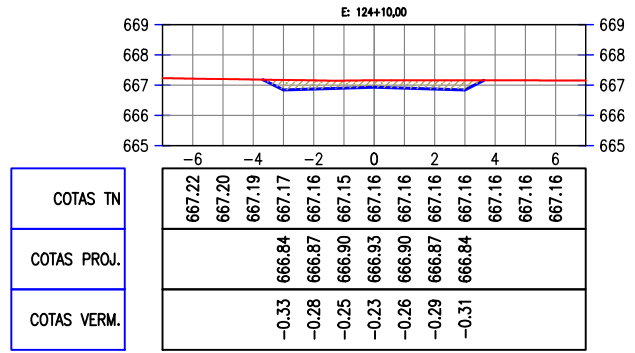
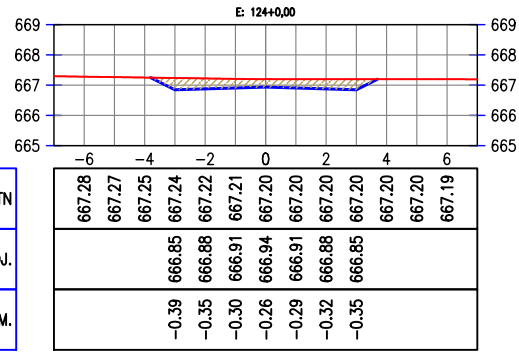
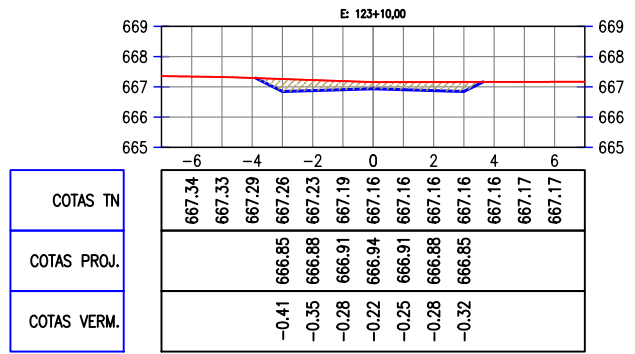
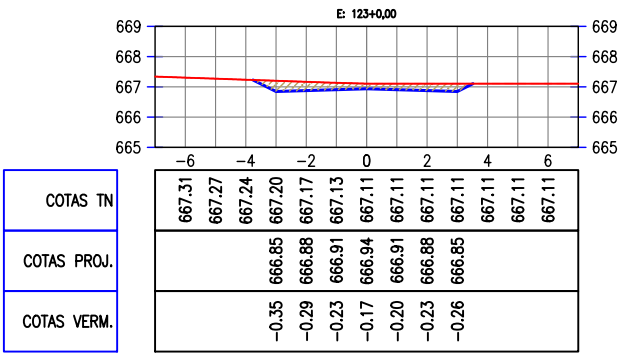
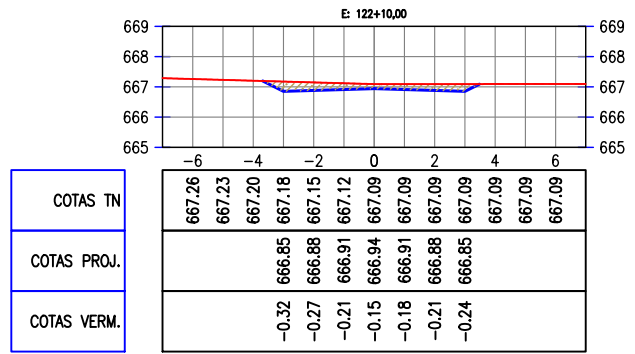
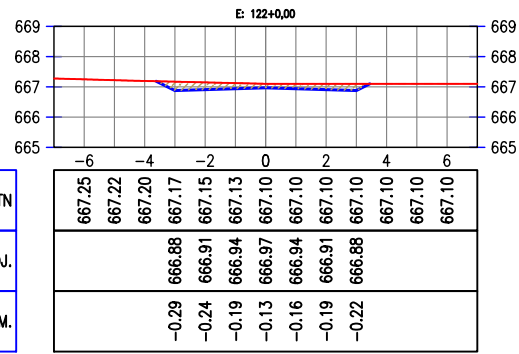
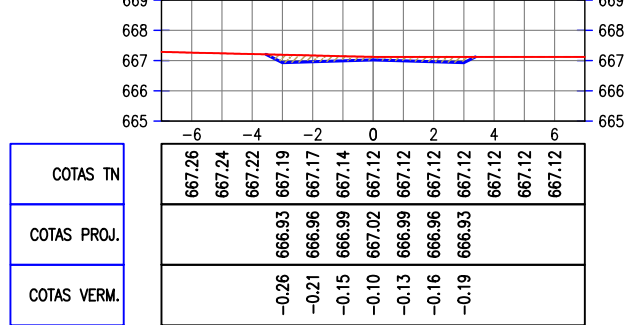
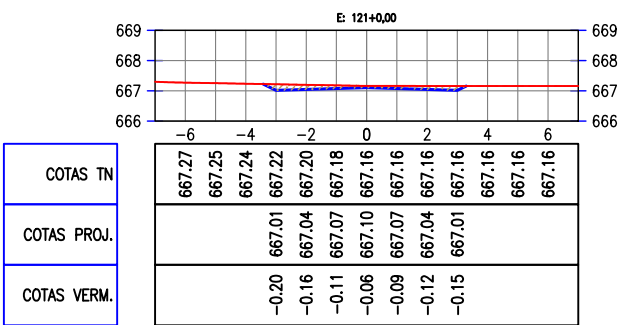
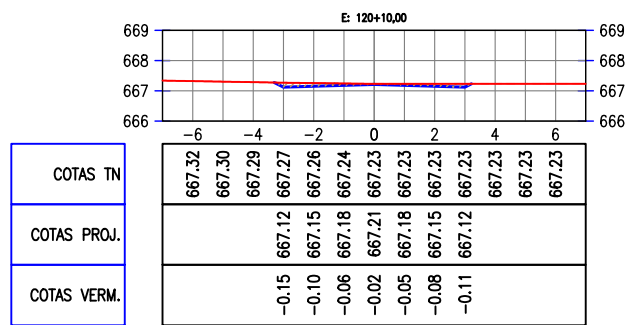
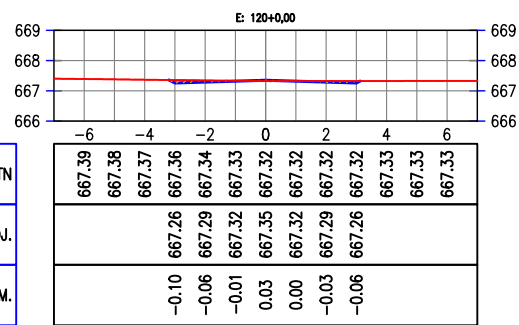
ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG

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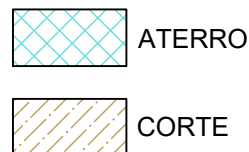
12 / 23

ESCALA:

1/250



LEGENDA:

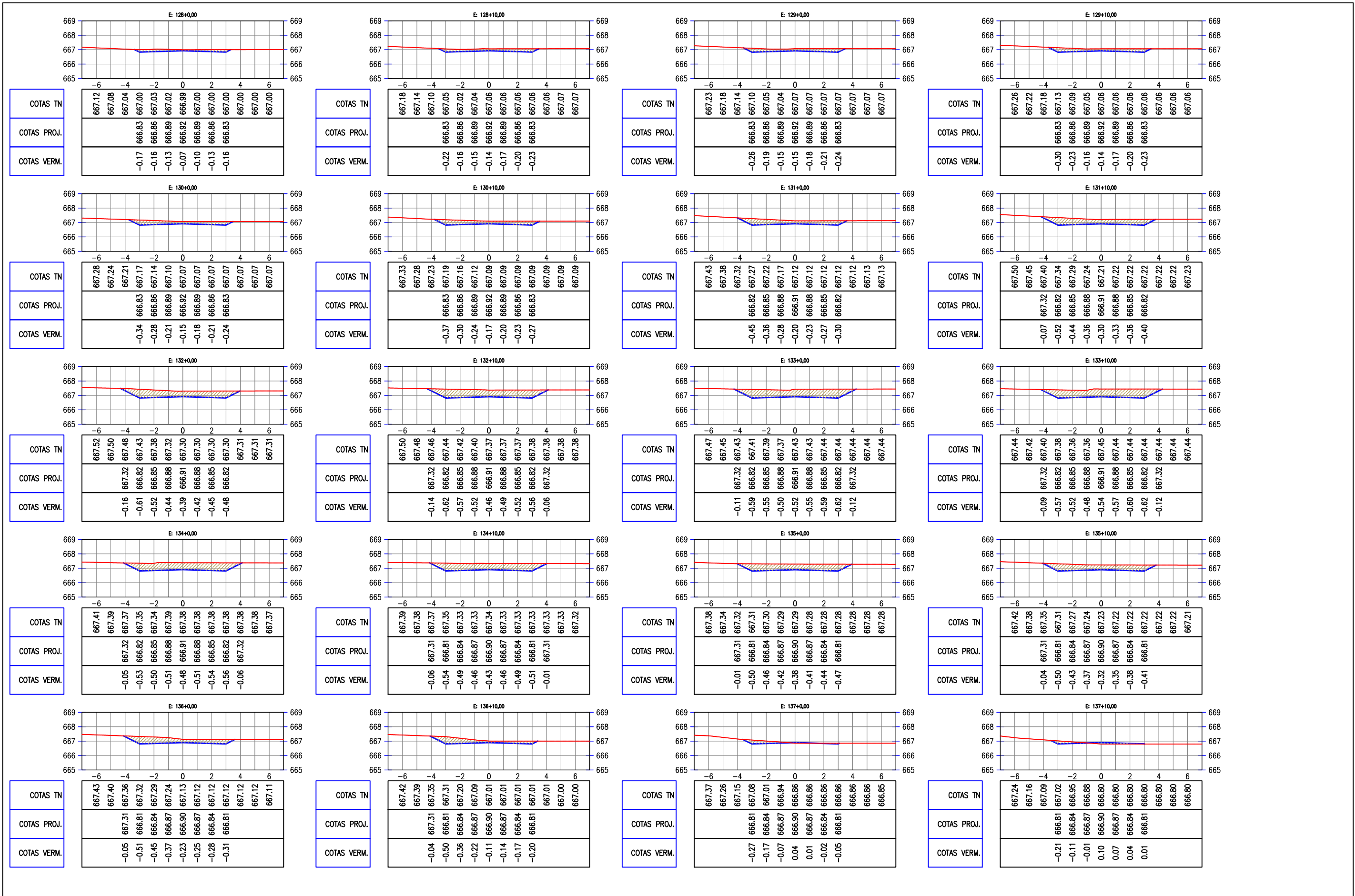


JOTA BARROS PROJETOS
Arthur Moreira Torquato
Engº Civil - CREA 53900D - CE



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|---|--|
| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SEÇÕES TRANSVERSAIS | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG |

PRANCHA:
13 / 23
ESCALA:
1/250



LEGENDA:

- ATERRO
- CORTE

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE

JOTA BARROS PROJETOS

PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE

RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03

SEÇÕES TRANSVERSAIS

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE

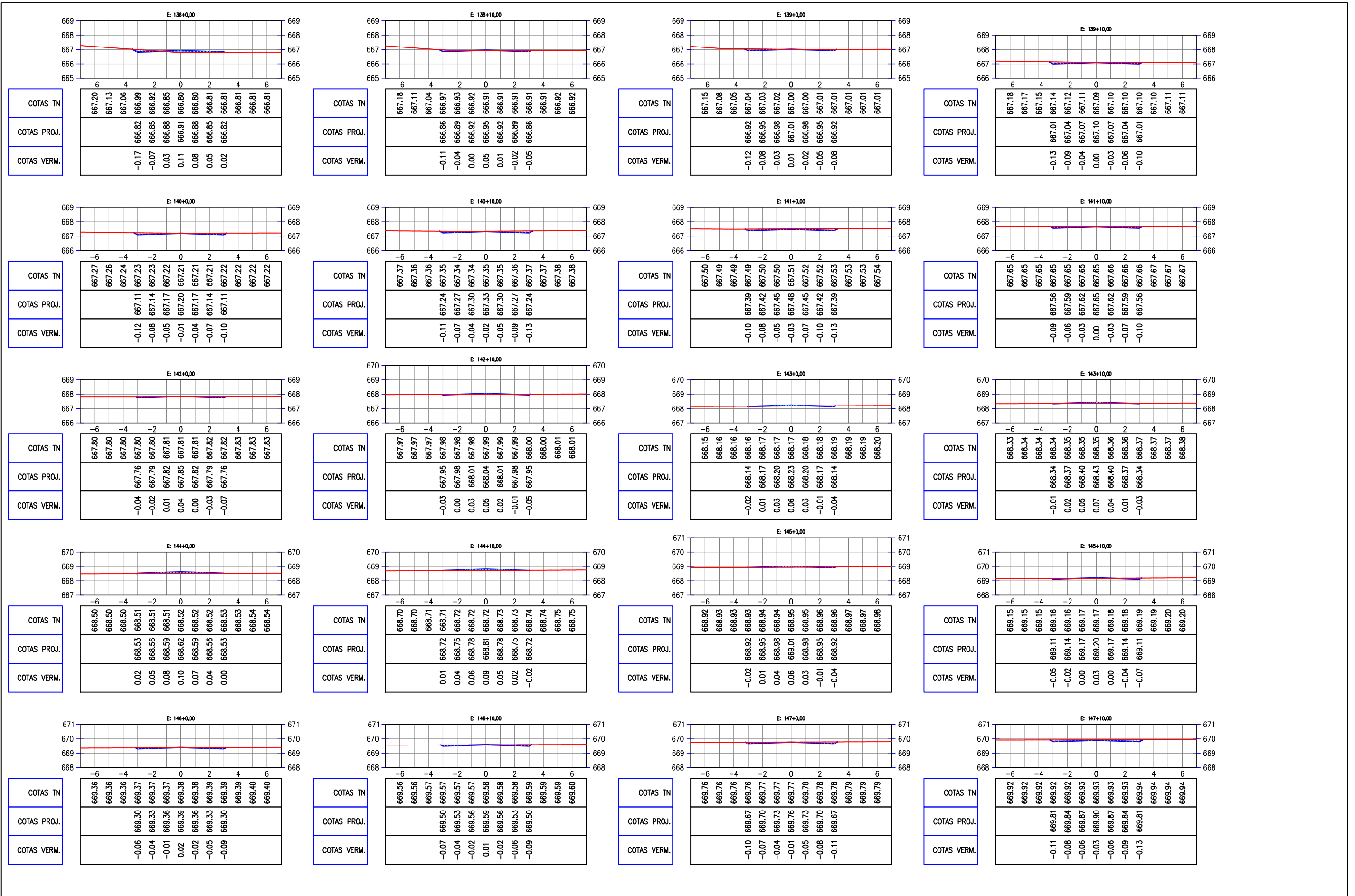
ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG

PRANCHA:

14 / 23

ESCALA:

1/250



LEGENDA:




JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE

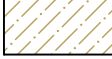


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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | | PRANCHA: 15 / 23 |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE | ESCALA: 1/250 |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | |



LEGENDA:

 ATERRO

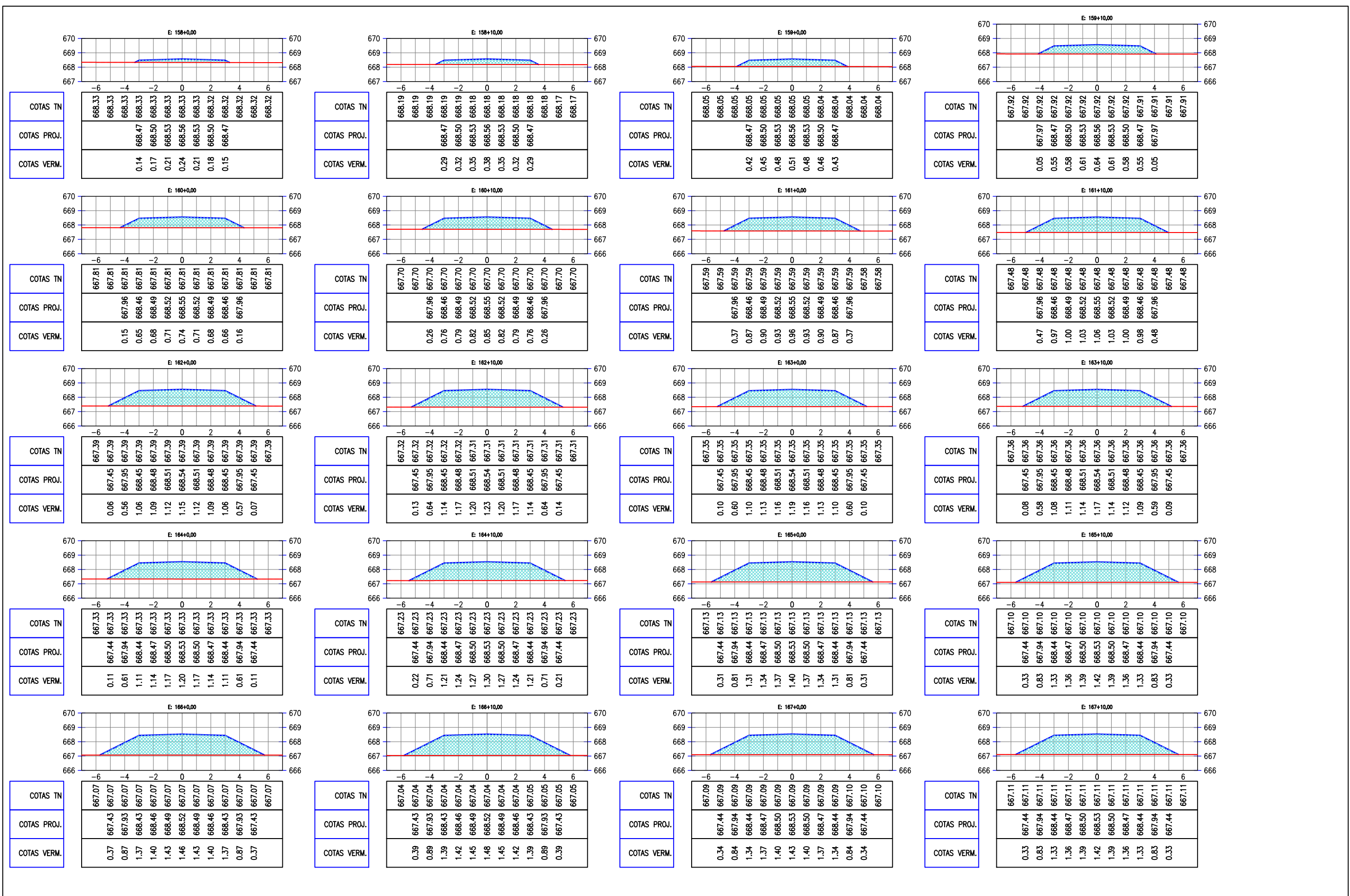
 CORTE

Arthur Moreira Torquato
JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE

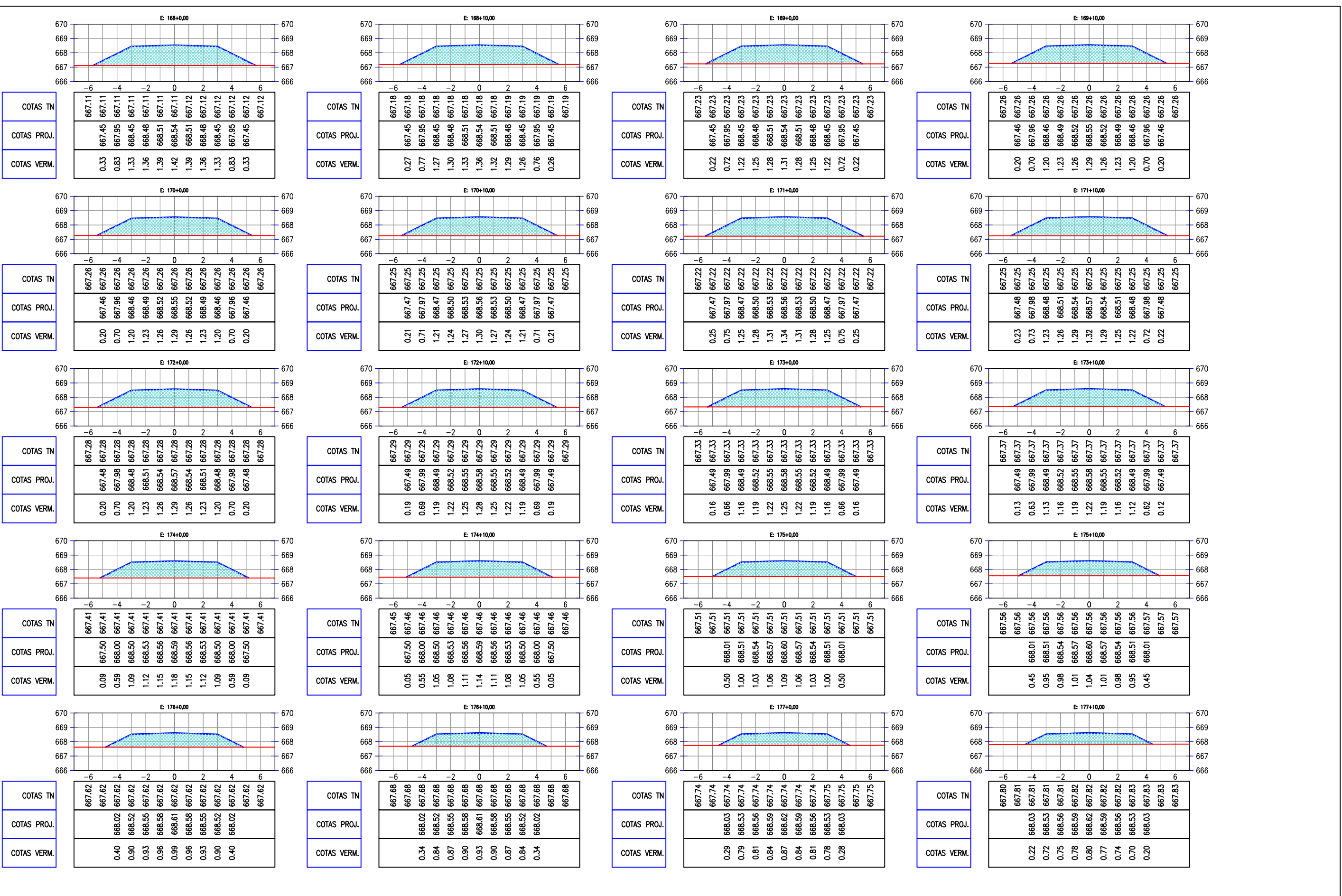


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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SEÇÕES TRANSVERSAIS | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG |

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| PRANCHA: | 16 / 23 |
| ESCALA: | 1/250 |



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|------------------------------------|--|--|--|----------|--|
| LEGENDA: ATERRO CORTE | JOTA BARROS PROJETOS Arthur Moreira Torquato Engº Civil - CREA 53900D - CE | PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | PRANCHA: 17 / 23 | | |
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| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE | | | | |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | | | | |



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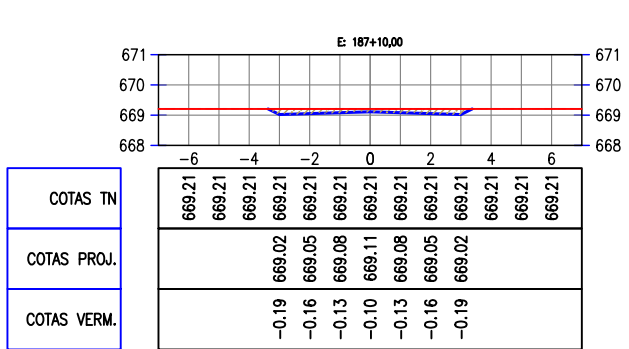
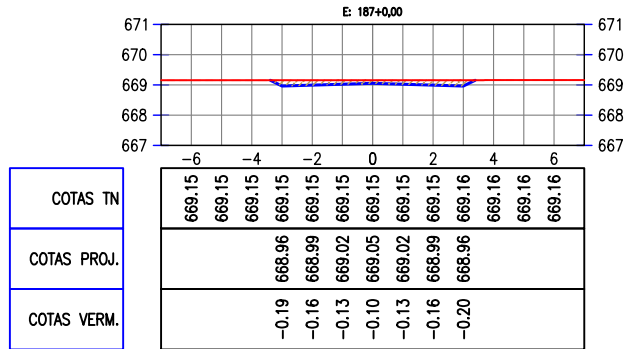
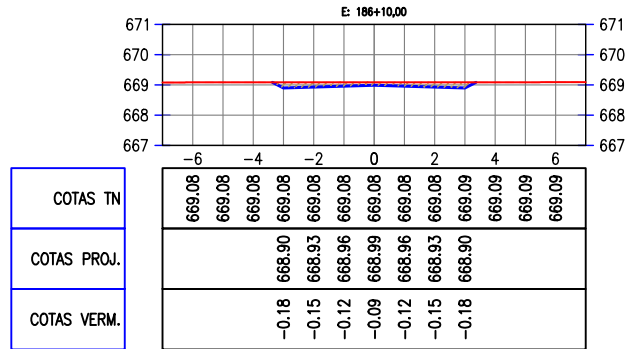
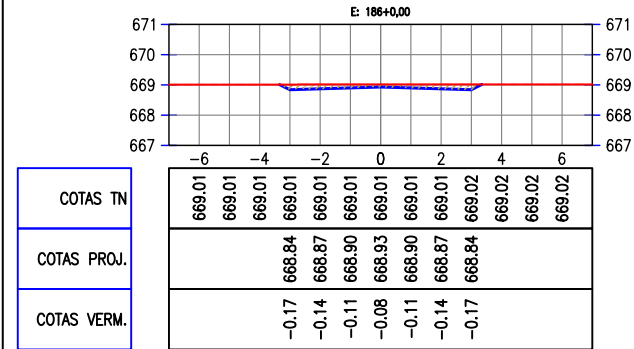
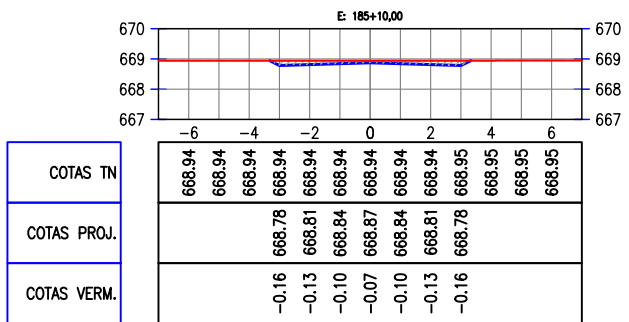
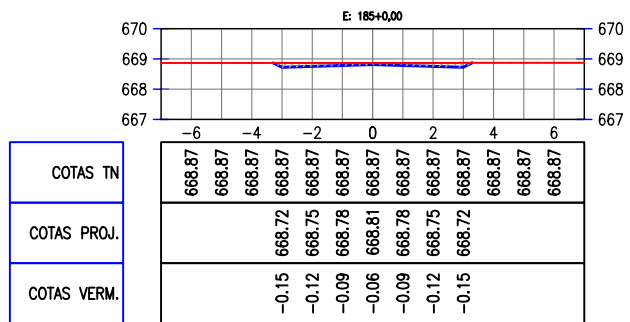
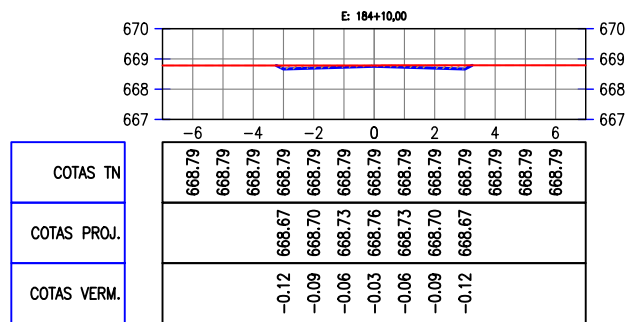
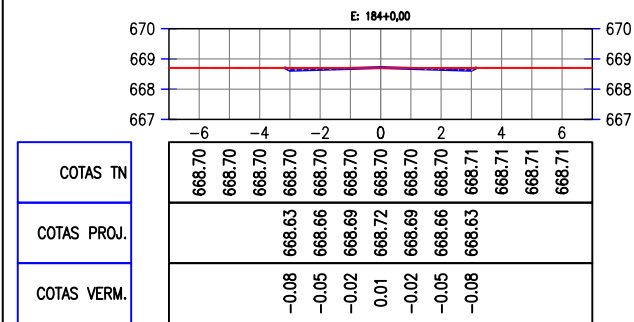
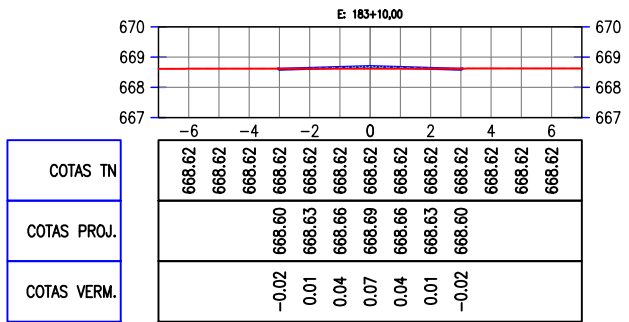
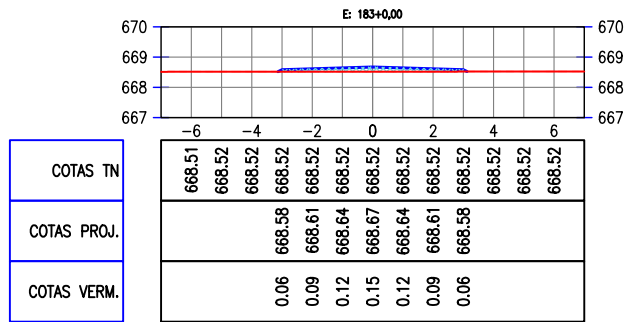
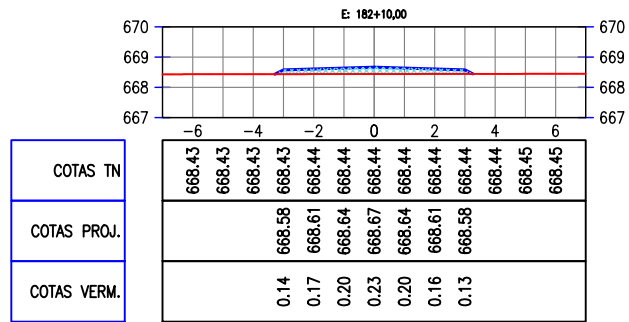
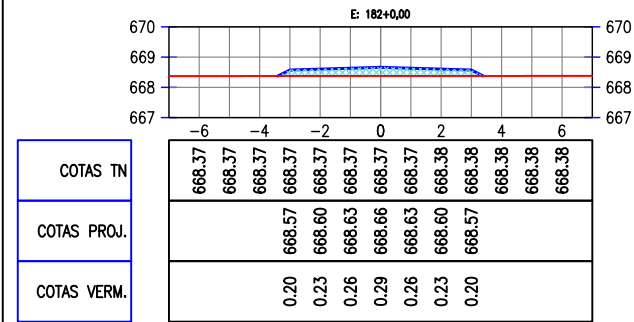
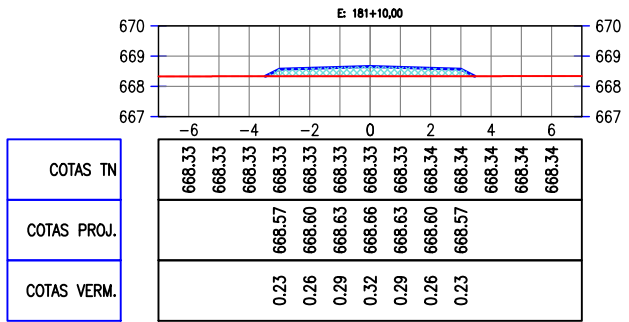
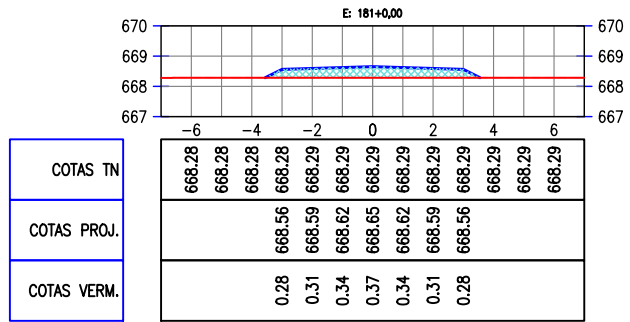
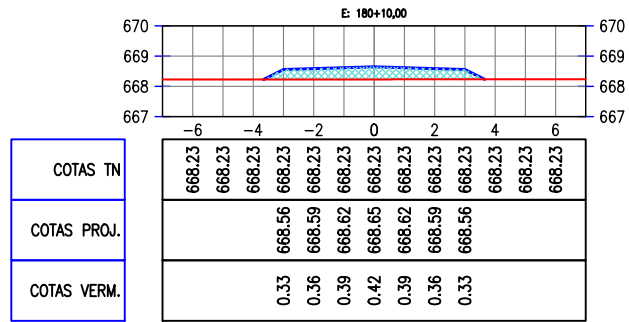
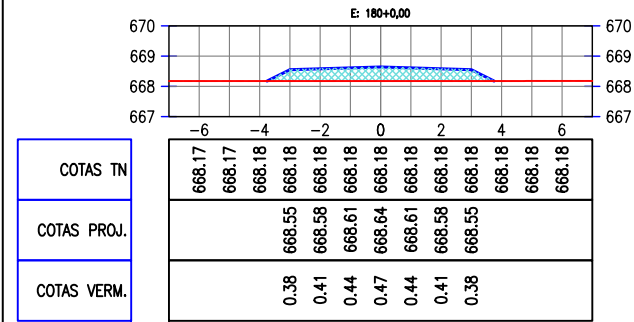
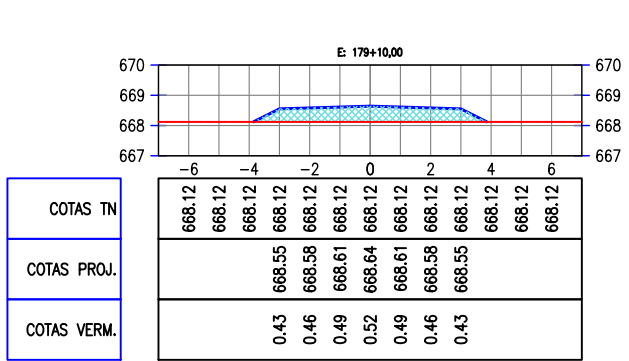
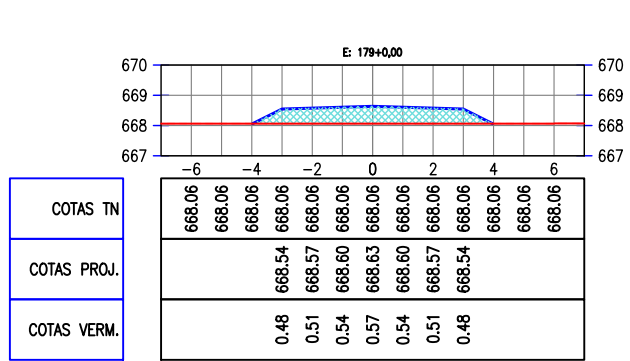
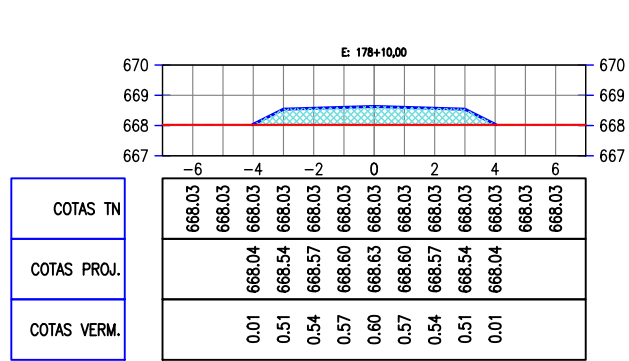
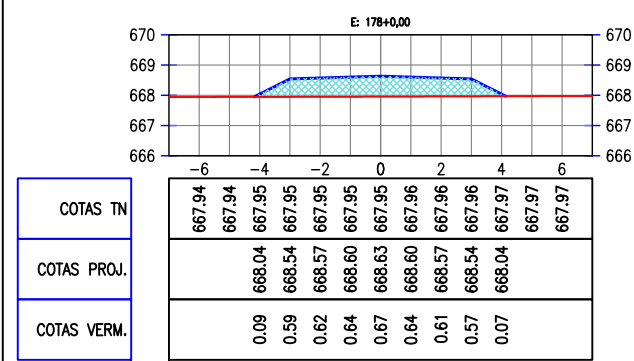
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| | ATERRO |
| | CORTE |

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE



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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SEÇÕES TRANSVERSAIS | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG |

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| PRANCHA: | 18 / 23 |
| ESCALA: | 1/250 |



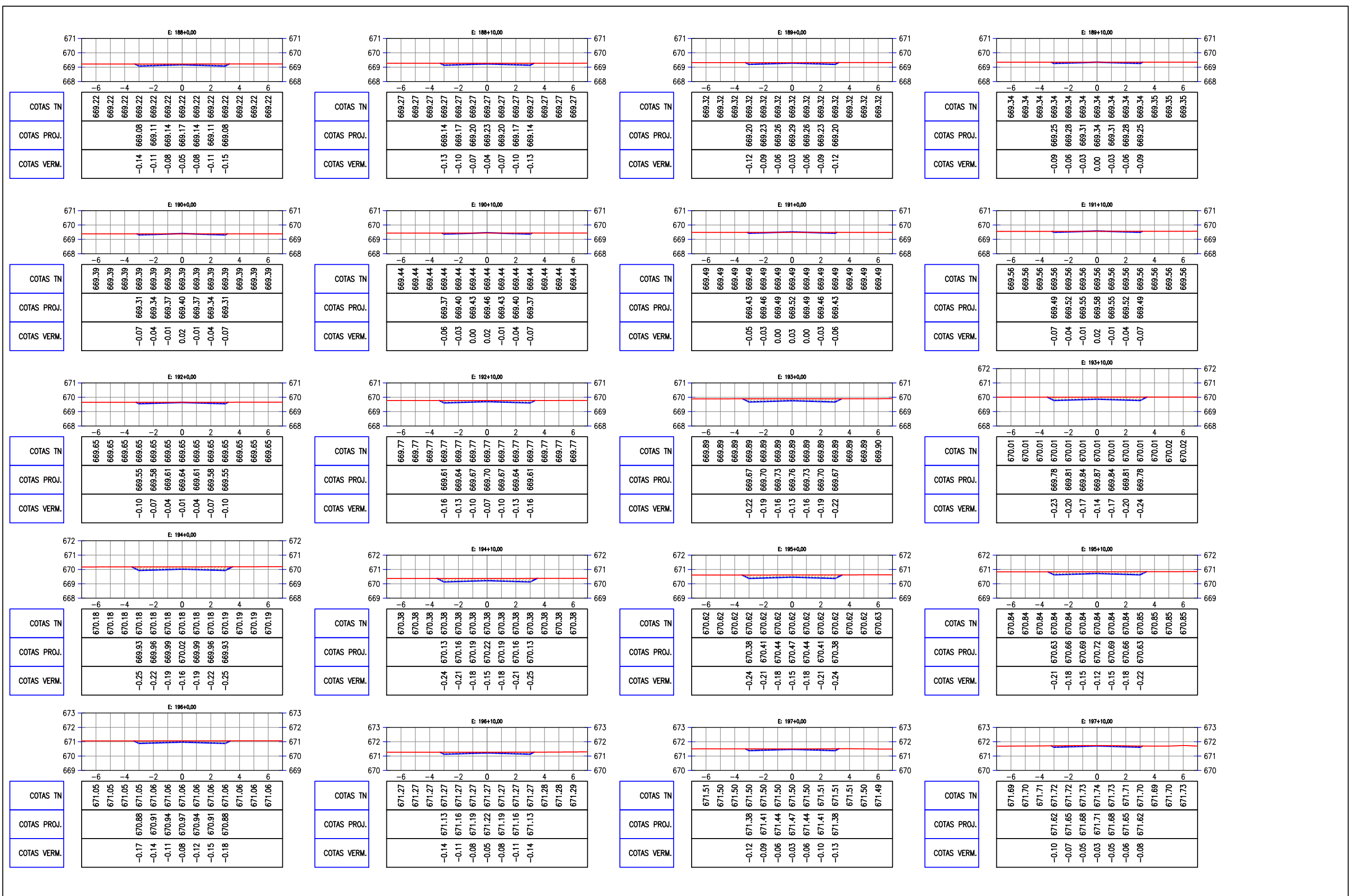
LEGENDA:
 ATERRO
 CORTE

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE



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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SEÇÕES TRANSVERSAIS | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG |

PRANCHA:
19 / 23
 ESCALA:
 1/250



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| LEGENDA: ATERRO CORTE | JOTA BARROS PROJETOS Arthur Moreira Torquato Engº Civil - CREA 53900D - CE | PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | PRANCHA: |
| | JOTA BARROS PROJETOS | PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | 20 / 23 |



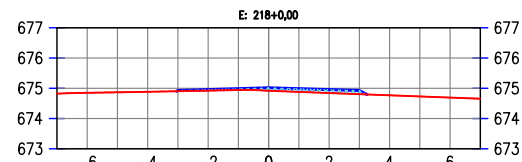
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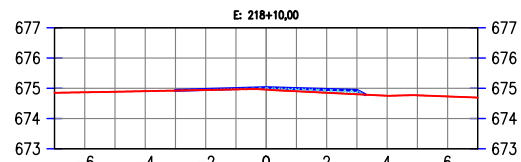
JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900D - CE



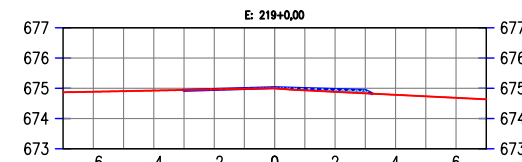
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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 SEÇÕES TRANSVERSAIS | | PRANCHA: 21 / 23 |
| PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG | ESCALA: 1/250 | |



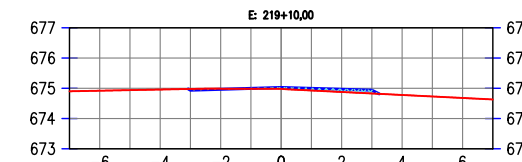
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| COTAS PROJ. | | | | 674.92 | 674.95 | 674.98 | 674.94 | 675.01 | 674.98 | 674.95 | 674.84 | 674.92 | 674.69 |
| COTAS VERM. | | 0.02 | 0.03 | 0.04 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | | | | |



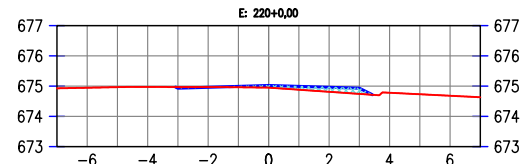
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| COTAS TN | 674.87 | 674.88 | 674.90 | 674.92 | 674.94 | 674.96 | 674.96 | 674.90 | 674.85 | 674.80 | 674.75 | 674.71 | 674.73 |
| COTAS PROJ. | | | | 674.93 | 674.96 | 674.99 | 674.96 | 675.02 | 674.96 | 674.93 | 674.85 | 674.93 | 674.73 |
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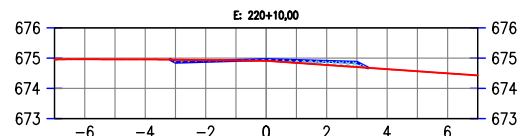
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| COTAS TN | 674.88 | 674.90 | 674.92 | 674.94 | 674.96 | 674.98 | 675.00 | 674.93 | 674.88 | 674.83 | 674.78 | 674.73 | 674.68 |
| COTAS PROJ. | | | | 674.93 | 674.96 | 674.99 | 675.02 | 674.99 | 674.96 | 674.93 | 674.83 | 674.73 | 674.68 |
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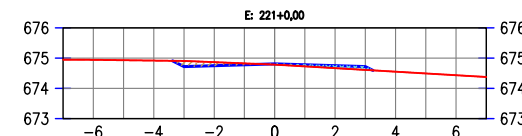
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| COTAS TN | 674.92 | 674.94 | 674.96 | 674.98 | 674.98 | 674.98 | 674.98 | 674.98 | 674.92 | 674.83 | 674.78 | 674.73 | 674.68 |
| COTAS PROJ. | | | | 674.94 | 674.97 | 674.98 | 675.00 | 675.03 | 674.98 | 674.92 | 674.94 | 674.73 | 674.68 |
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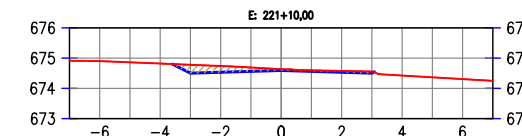
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| COTAS PROJ. | | | | 674.93 | 674.96 | 674.99 | 674.95 | 675.02 | 674.99 | 674.81 | 674.74 | 674.73 | 674.68 |
| COTAS VERM. | | | | -0.04 | -0.01 | 0.03 | 0.07 | 0.11 | 0.15 | 0.19 | | | |



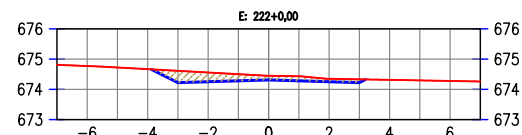
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|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS TN | 674.96 | 674.96 | 674.96 | 674.95 | 674.94 | 674.92 | 674.91 | 674.84 | 674.77 | 674.70 | 674.64 | 674.57 | 674.50 |
| COTAS PROJ. | | | | 674.86 | 674.89 | 674.92 | 674.91 | 674.84 | 674.77 | 674.70 | 674.64 | 674.57 | 674.50 |
| COTAS VERM. | | | | -0.08 | -0.04 | 0.00 | 0.04 | 0.08 | 0.12 | 0.16 | | | |



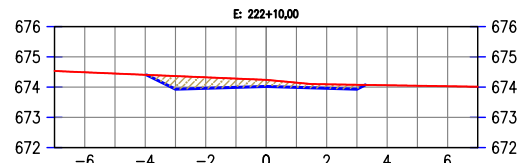
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|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS TN | 674.94 | 674.93 | 674.92 | 674.91 | 674.87 | 674.83 | 674.79 | 674.73 | 674.67 | 674.61 | 674.55 | 674.49 | 674.44 |
| COTAS PROJ. | | | | 674.72 | 674.75 | 674.87 | 674.81 | 674.78 | 674.75 | 674.72 | 674.55 | 674.49 | 674.44 |
| COTAS VERM. | | | | -0.19 | -0.12 | -0.04 | 0.03 | 0.05 | 0.08 | 0.11 | | | |



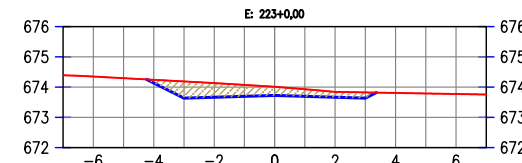
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|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS TN | 674.90 | 674.86 | 674.82 | 674.78 | 674.74 | 674.69 | 674.63 | 674.60 | 674.58 | 674.56 | 674.42 | 674.37 | 674.31 |
| COTAS PROJ. | | | | 674.50 | 674.53 | 674.74 | 674.69 | 674.63 | 674.60 | 674.56 | 674.50 | 674.42 | 674.31 |
| COTAS VERM. | | | | -0.28 | -0.21 | -0.13 | -0.04 | -0.03 | -0.04 | -0.04 | -0.05 | | |



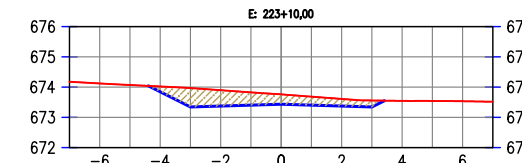
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|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS TN | 674.77 | 674.72 | 674.67 | 674.61 | 674.56 | 674.50 | 674.45 | 674.43 | 674.35 | 674.33 | 674.31 | 674.29 | 674.28 |
| COTAS PROJ. | | | | 674.22 | 674.25 | 674.50 | 674.45 | 674.43 | 674.35 | 674.33 | 674.31 | 674.29 | 674.28 |
| COTAS VERM. | | | | -0.39 | -0.30 | -0.22 | -0.14 | -0.15 | -0.10 | -0.11 | | | |



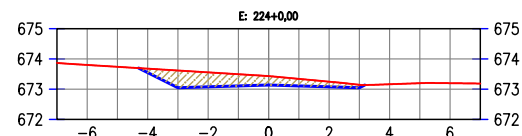
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|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS TN | 674.49 | 674.45 | 674.41 | 674.36 | 674.32 | 674.28 | 674.24 | 674.15 | 674.09 | 674.08 | 674.06 | 674.04 | 674.03 |
| COTAS PROJ. | | | | 673.93 | 673.96 | 674.28 | 674.24 | 674.15 | 674.09 | 674.08 | 674.06 | 674.04 | 674.03 |
| COTAS VERM. | | | | -0.44 | -0.36 | -0.29 | -0.22 | -0.16 | -0.13 | -0.15 | | | |



| | | | | | | | | | | | | | |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS TN | 674.35 | 674.29 | 674.24 | 674.19 | 674.13 | 674.07 | 674.01 | 673.93 | 673.84 | 673.82 | 673.81 | 673.79 | 673.77 |
| COTAS PROJ. | | | | 674.14 | 673.64 | 674.13 | 674.01 | 673.93 | 673.84 | 673.82 | 673.81 | 673.79 | 673.77 |
| COTAS VERM. | | | | -0.11 | -0.55 | -0.47 | -0.38 | -0.29 | -0.23 | -0.18 | -0.19 | | |

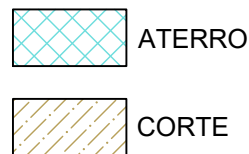


| | | | | | | | | | | | | | |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS TN | 674.12 | 674.07 | 674.02 | 673.97 | 673.90 | 673.83 | 673.76 | 673.68 | 673.61 | 673.56 | 673.54 | 673.54 | 673.53 |
| COTAS PROJ. | | | | 673.84 | 673.34 | 673.97 | 673.83 | 673.76 | 673.68 | 673.61 | 673.54 | 673.54 | 673.53 |
| COTAS VERM. | | | | -0.18 | -0.63 | -0.52 | -0.42 | -0.33 | -0.28 | -0.24 | -0.21 | | |



| | | | | | | | | | | | | | |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS TN | 673.80 | 673.74 | 673.68 | 673.62 | 673.56 | 673.50 | 673.43 | 673.34 | 673.25 | 673.15 | 673.16 | 673.20 | 673.20 |
| COTAS PROJ. | | | | 673.55 | 673.08 | 673.56 | 673.43 | 673.34 | 673.25 | 673.15 | 673.16 | 673.20 | 673.20 |
| COTAS VERM. | | | | -0.13 | -0.57 | -0.48 | -0.39 | -0.30 | -0.23 | -0.17 | -0.10 | | |

LEGENDA:



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Arthur Moreira Torquato
Engº Civil - CREA 53900D - CE



PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA
DO NORTE-CE - PT 1086270-03

PRANCHA:

23 / 23

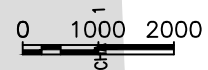
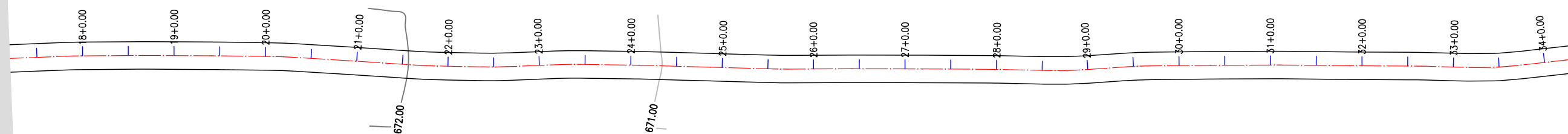
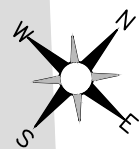
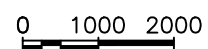
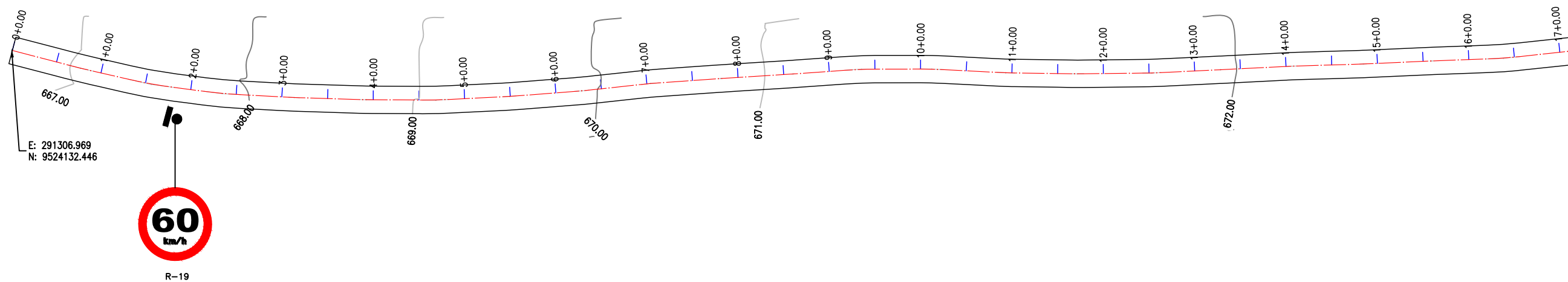
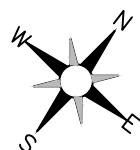
SEÇÕES TRANSVERSAIS

ESCALA:

1/250

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE

ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SEÇÕES_R1.DWG

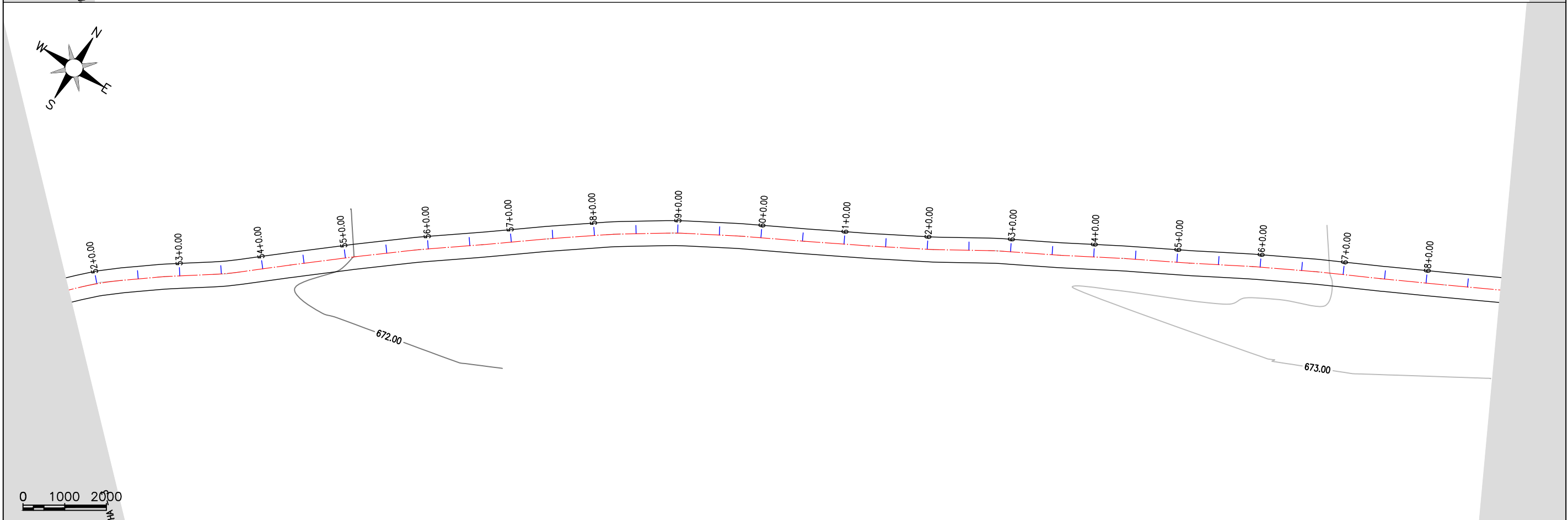
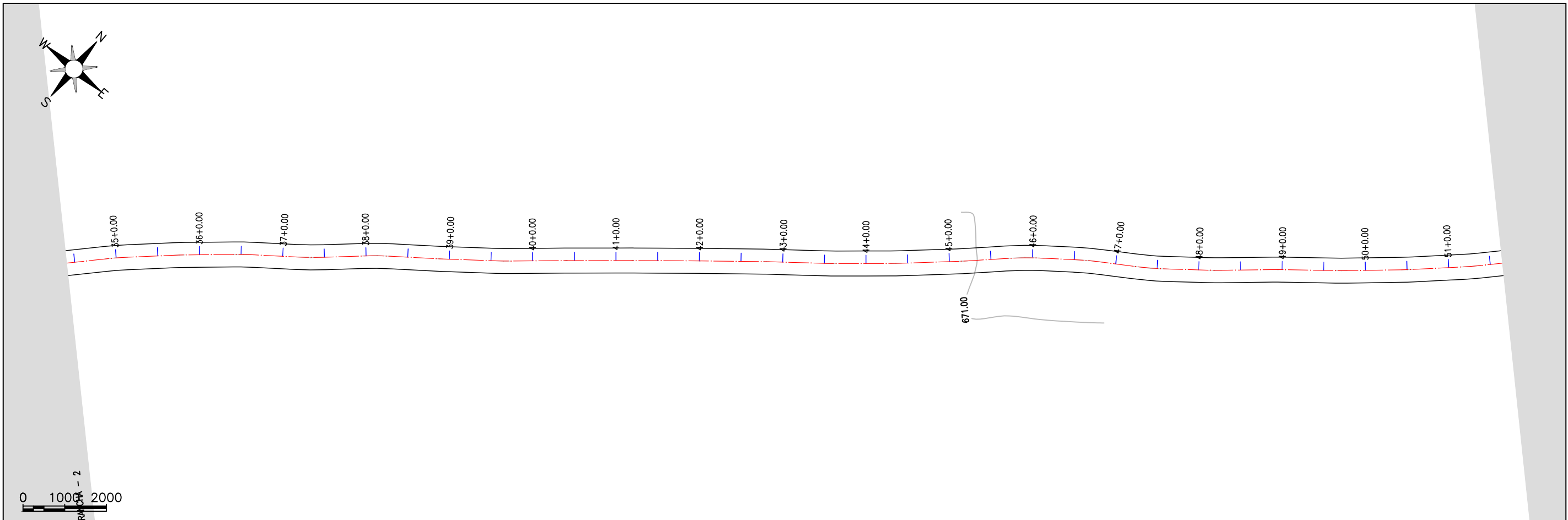


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|---|---|
| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SINALIZAÇÃO VIÁRIA | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SIN_R1.DWG |

PRANCHA:
1 / 08
 ESCALA:
 1/1000

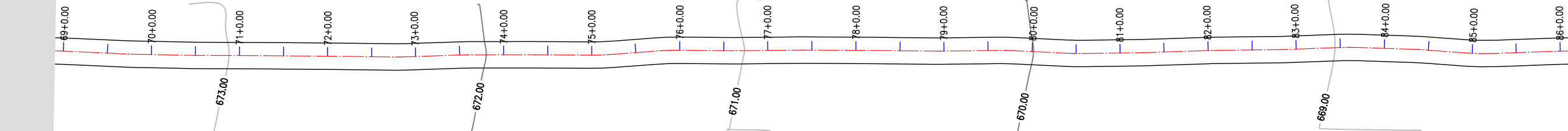
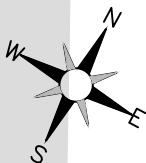



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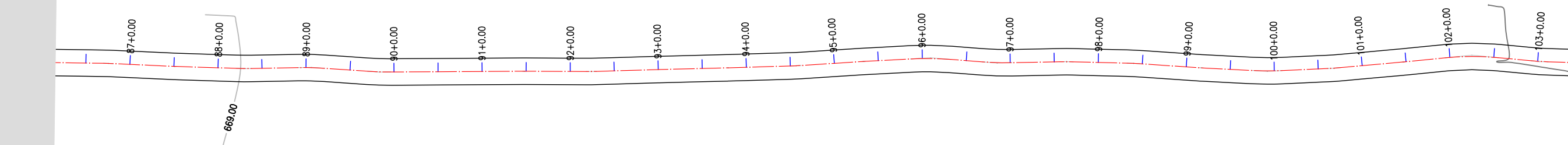
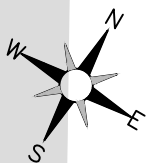


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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SINALIZAÇÃO VIÁRIA | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SIN_R1.DWG |

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| PRANCHA: | 2 / 08 |
| ESCALA: | 1/1000 |



PRANCHA - 4
0 1000 2000



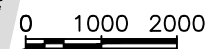
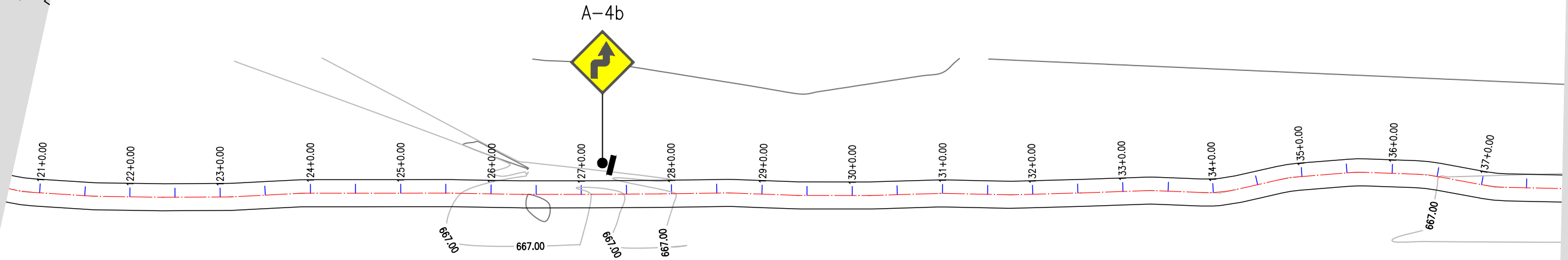
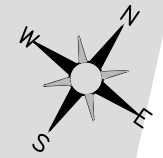
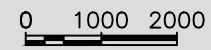
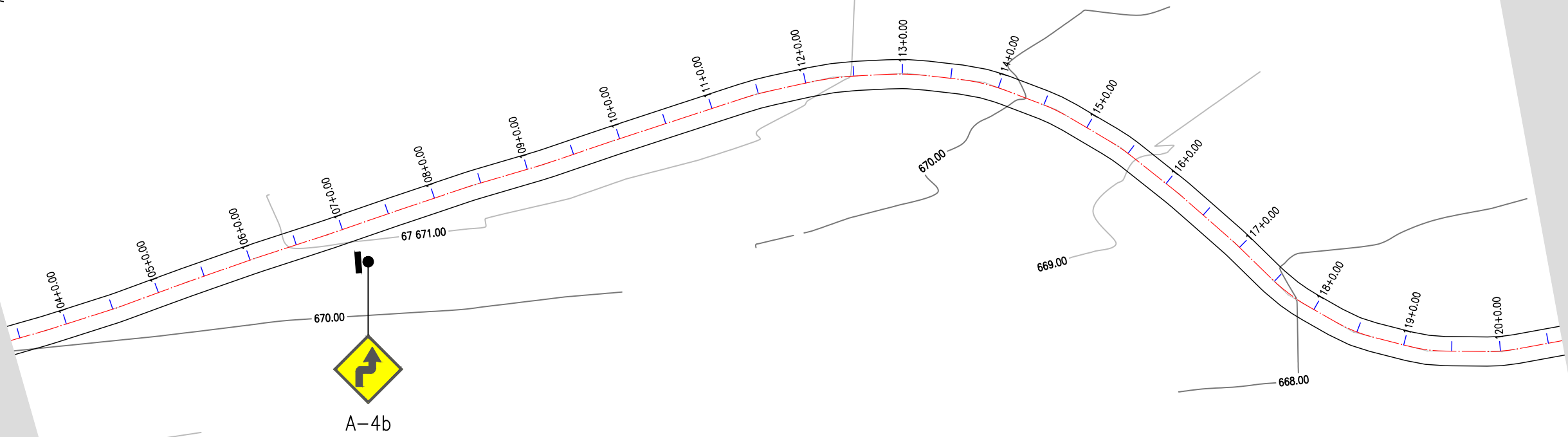
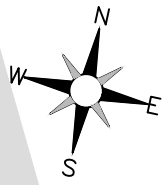
PRANCHA - 5
0 1000 2000

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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SINALIZAÇÃO VIÁRIA | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SIN_R1.DWG |

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| PRANCHA: | 3 / 08 |
| ESCALA: | 1/1000 |




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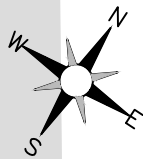


PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
 RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA
 DO NORTE-CE - PT 1086270-03

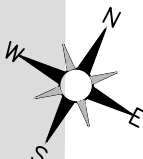
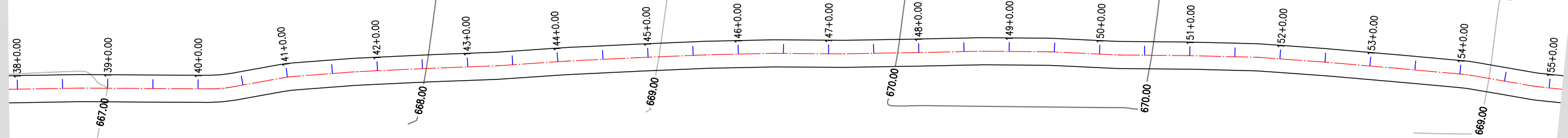
SINALIZAÇÃO VIÁRIA
 PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SIN_R1.DWG

PRANCHA:
4 / 08

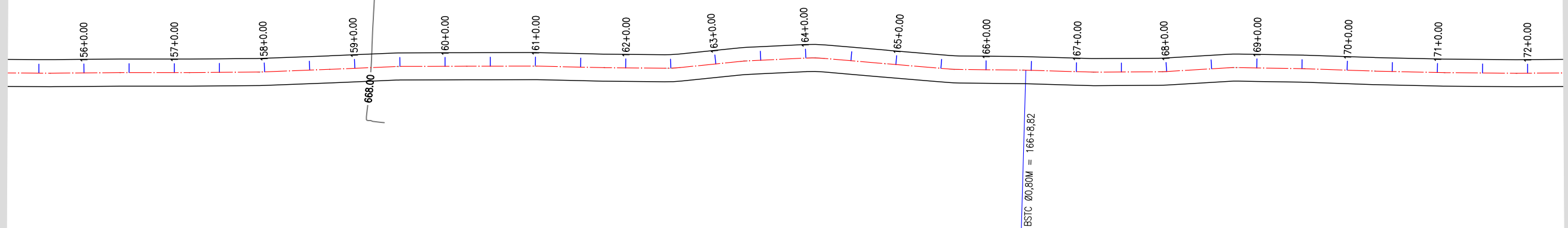
ESCALA:
1/1000



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M 1:8



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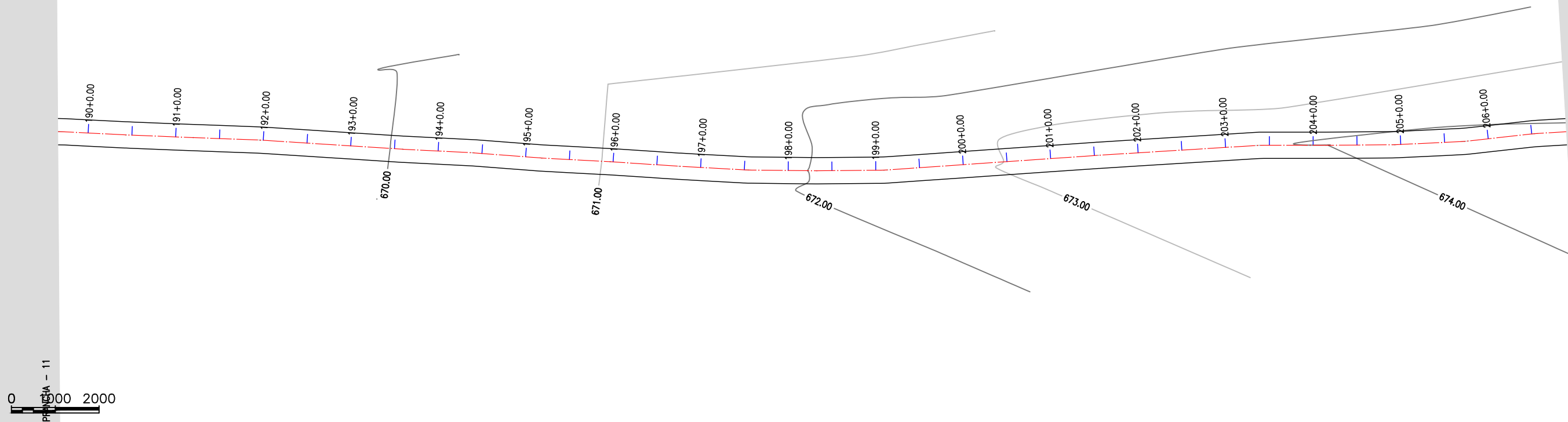
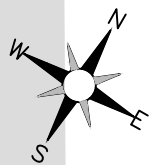
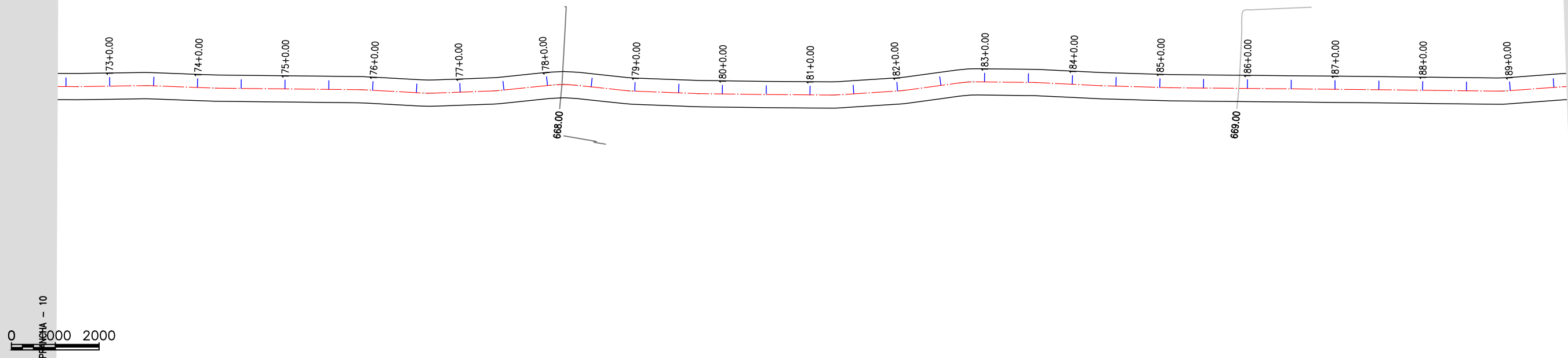
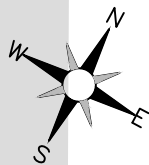



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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SINALIZAÇÃO VIÁRIA | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SIN_R1.DWG |

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| PRANCHA: | 5 / 08 |
| ESCALA: | 1/1000 |

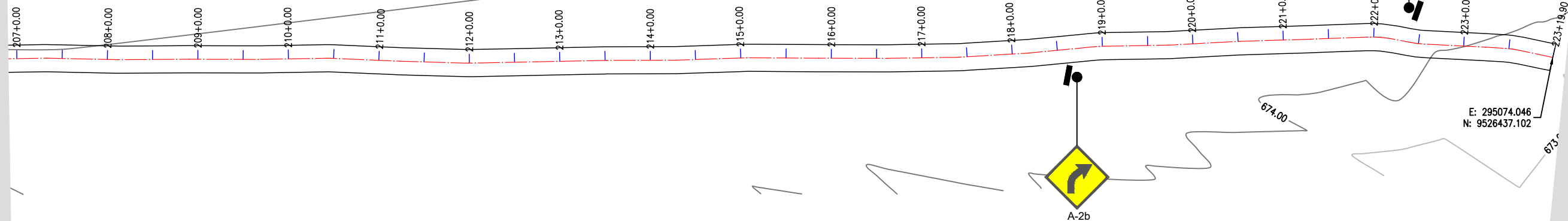
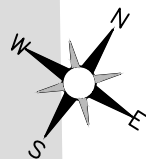



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| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | |
| SINALIZAÇÃO VIÁRIA | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SIN_R1.DWG |

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| PRANCHA: | 6 / 08 |
| ESCALA: | 1/1000 |



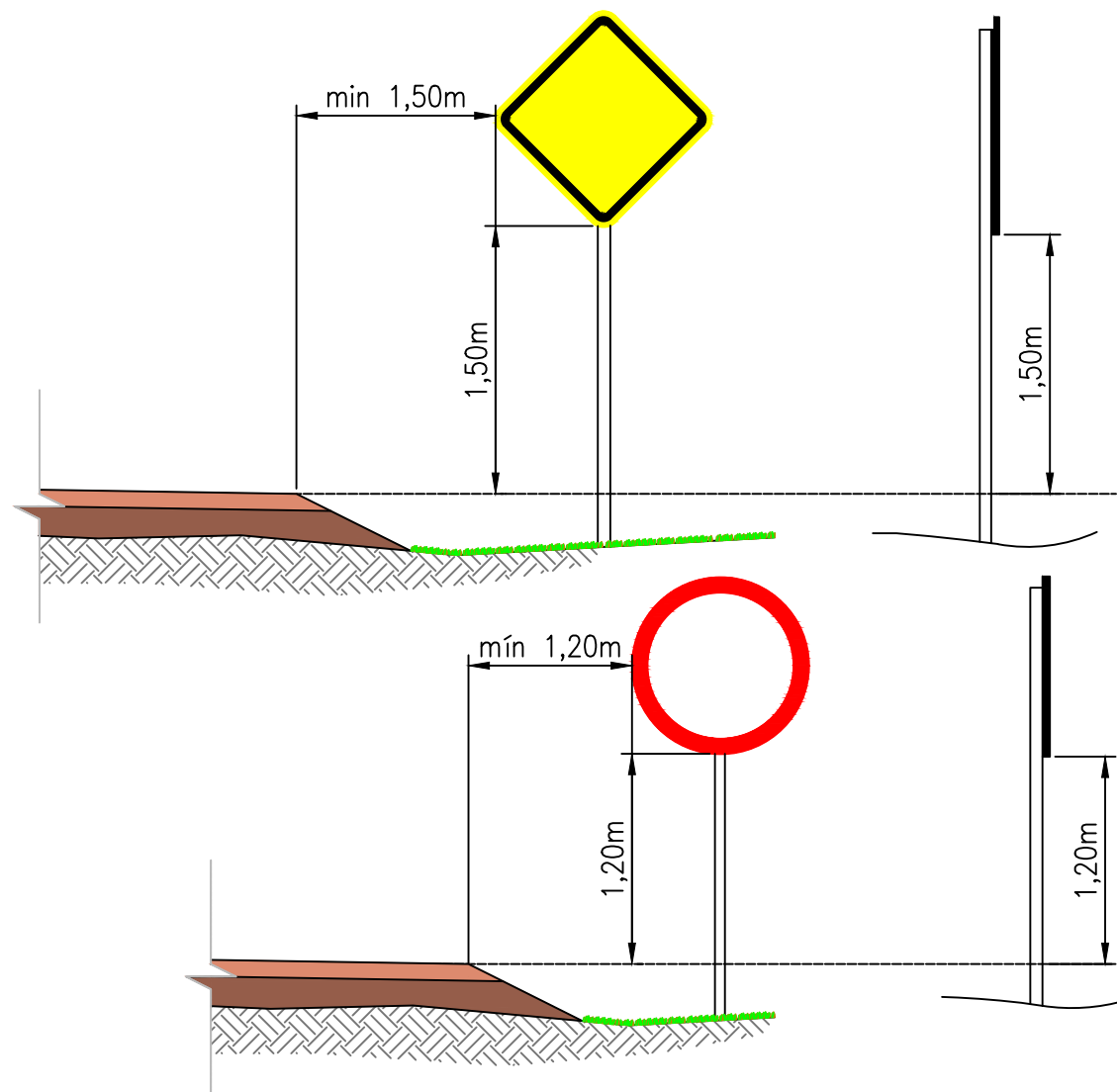
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|---|---|----------|
| PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE | | PRANCHA: |
| RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03 | | 7 / 08 |
| SINALIZAÇÃO VIÁRIA | | |
| PROJETISTA: | ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE | ESCALA: |
| ARQUIVO: | 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SIN_R1.DWG | 1/1000 |

Posicionamento transversal



PLACAS DE ADVERTÊNCIA

| PLACAS | CÓDIGO | DIMENSÕES (m) | QUANTIDADE (un) |
|--------|--------|---------------|-----------------|
| | A - 2b | 0,80x0,80 | 01 |
| | A - 4b | 0,80x0,80 | 02 |

PLACAS DE ADVERTÊNCIA

| PLACAS | CÓDIGO | DIMENSÕES (m) | QUANTIDADE (un) |
|--------|--------|---------------|-----------------|
| | R - 19 | Ø = 0,60 | 02 |

NOTA 1:

As Placas Regulamentares tem as seguintes características:

| | | | |
|---------------------------|---------|---------|------------|
| Diâmetro | - 0,80m | Fundo | - Branco |
| Tarja Circular e Diagonal | - 0,07m | Tarja | - Vermelha |
| | | Símbolo | - Preto |
| | | Letra | - Preto |
| | | Verso | - Preto |

NOTA 2:

As Placas de Advertência tem as seguintes características:

| | | | |
|--------------|---------|--------------|-----------|
| Lado | - 0,80m | Fundo | - Amarelo |
| Orla externa | - 0,01m | Orla interna | - Preta |
| Orla interna | - 0,02m | Orla externa | - Amarela |
| | | Símbolo | - Preto |
| | | Verso | - Preto |

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PREFEITURA MUNICIPAL DE GUARACIABA DO NORTE
 RECUPERAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE GUARACIABA DO NORTE-CE - PT 1086270-03

PRANCHA:

8 / 08

SINALIZAÇÃO VIÁRIA

ESCALA:

SEM ESC

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE

ARQUIVO: 21- SÍTIO VARZEA DOS ESPINHOS - VARZEA REDONDA - SIN_R1.DWG