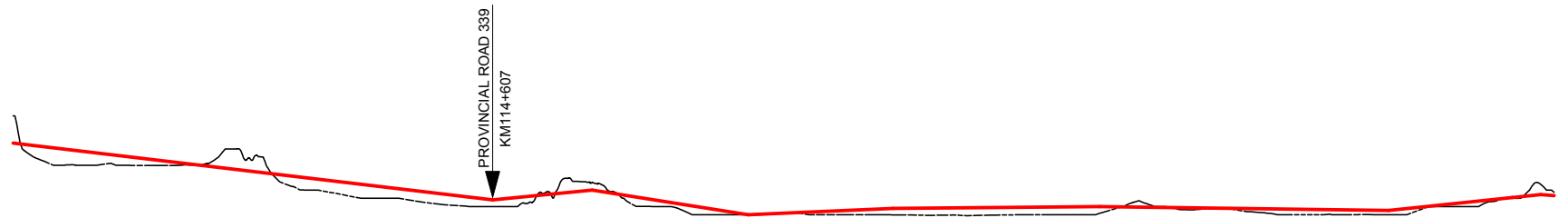
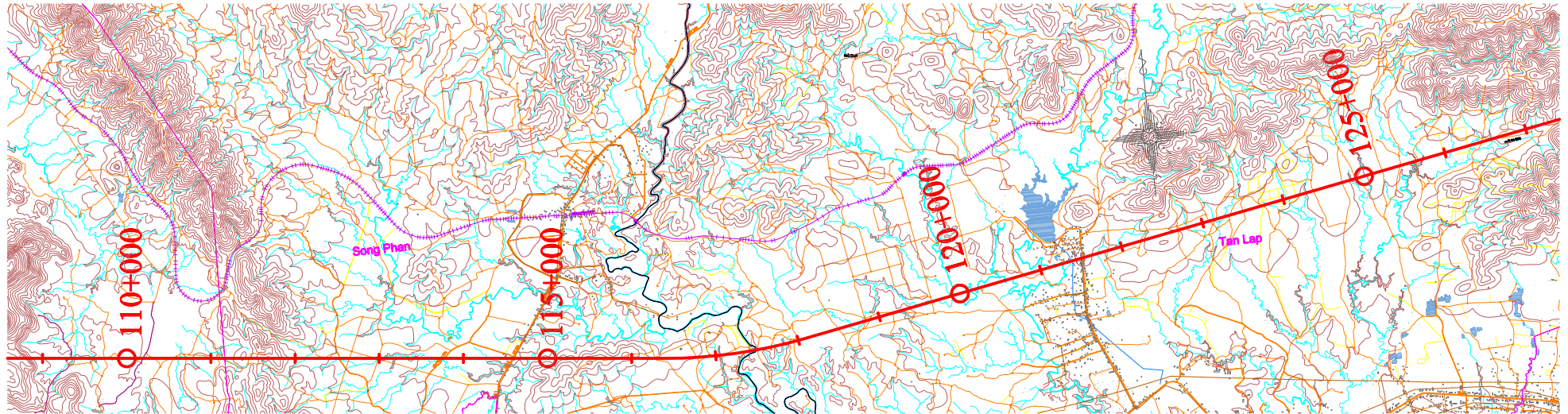
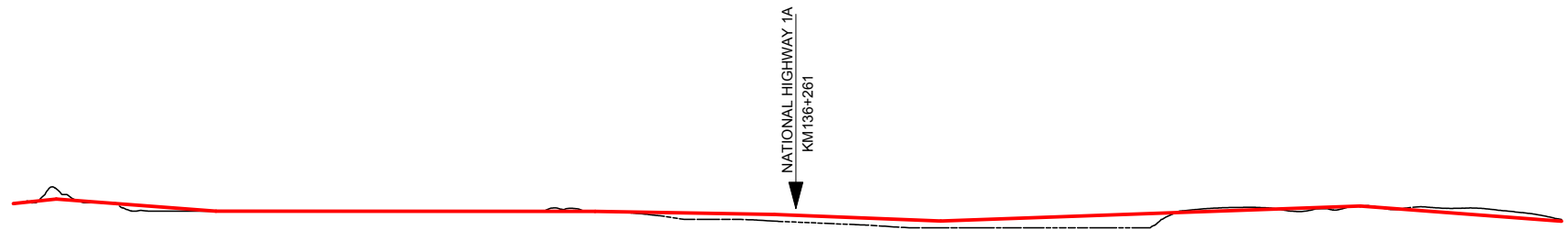
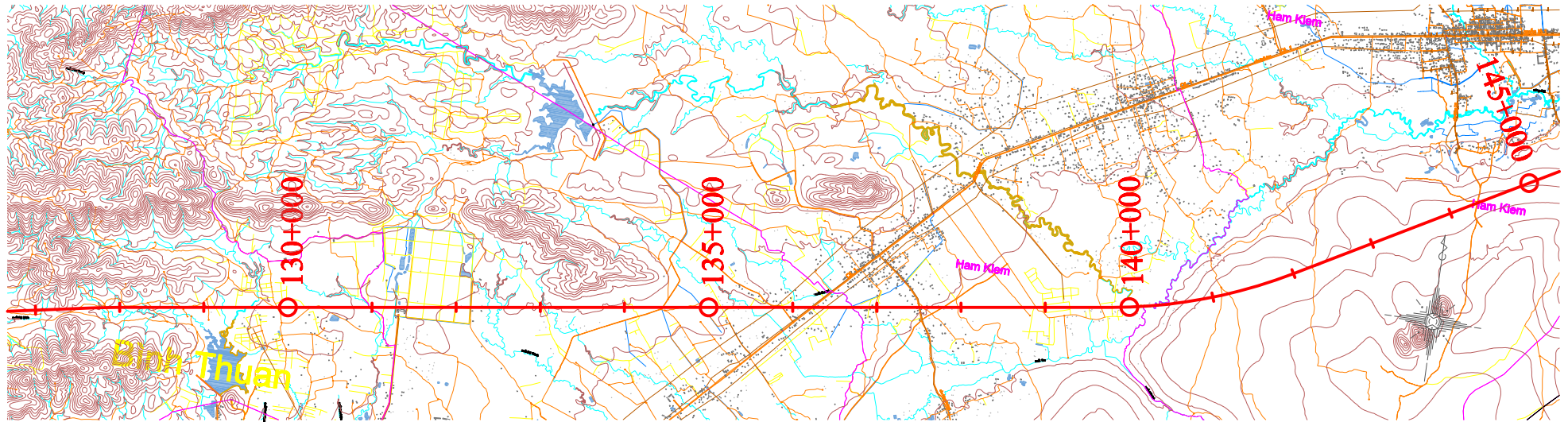


HSR ALIGNMENT PLAN (HCMC - NHA TRANG SECTION) Scale = 1/50000



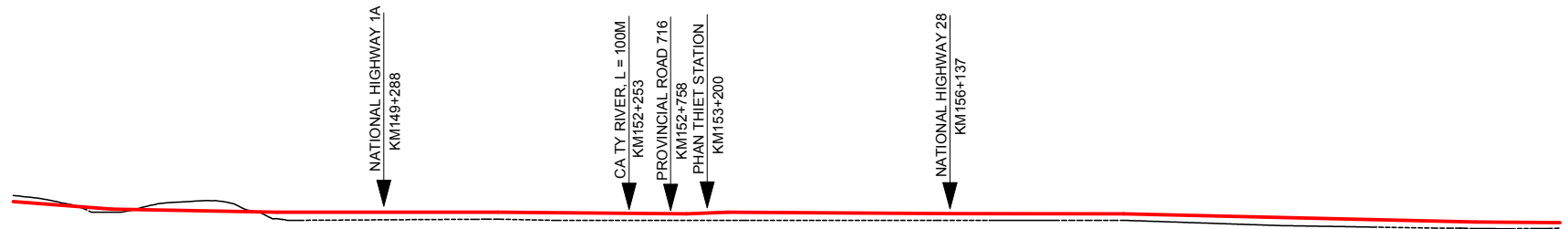
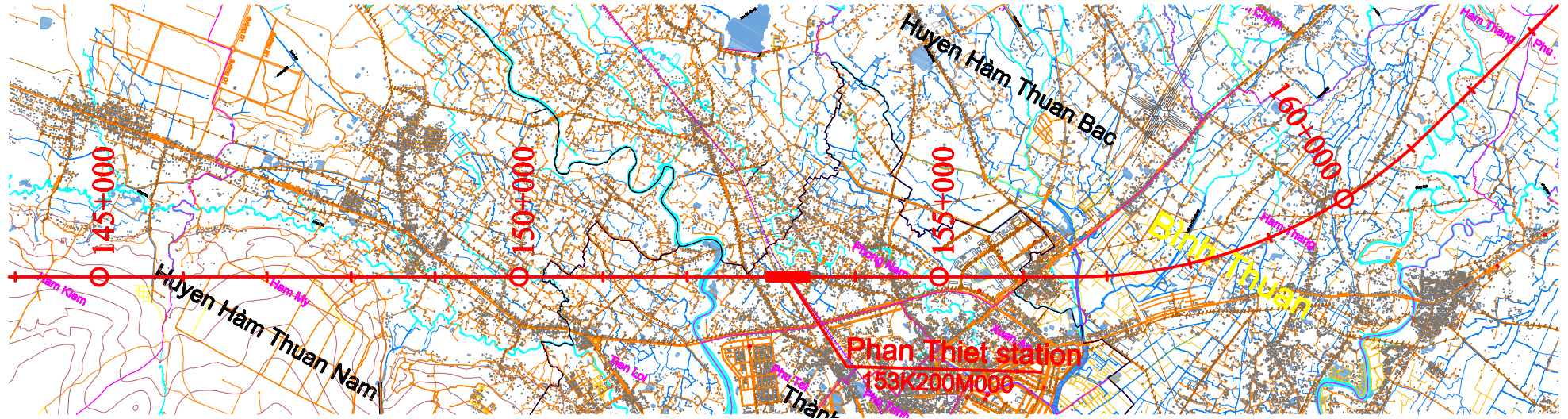
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|--|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| LONGITUDINAL GRADE (%) ĐỘ DỐC DỌC (%)/(m) | $i = -1.18\%$ L=6077.00m $i = 0.99\%$ L=1214.00m $i = -1.57\%$ L=1887.50m $i = 0.44\%$ L=1763.34m $i = 0.09\%$ L=2516.49m $i = -0.13\%$ L=3618.59m $i = 1.04\%$ L=1852.50m | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH ELEVATION (M) CAO ĐỘ THIẾT KẾ (M) | 111.33 | 124.43 | 112.58 | 100.74 | 88.89 | 77.04 | 65.19 | 58.00 | 61.88 | 70.00 | 67.18 | 51.43 | 40.11 | 41.34 | 45.71 | 47.81 | 48.26 | 49.13 | 50.00 | 48.65 | 47.30 | 45.95 | 45.25 | 50.28 | 60.70 | 64.55 |
| EXISTING ELEVATION (m) CAO ĐỘ TỰ NHIÊN (m) | 111.33 | 100.84 | 100.42 | 81.44 | 60.21 | 52.34 | 50.00 | 53.77 | 79.54 | 70.48 | 41.73 | 40.00 | 40.80 | 40.01 | 39.90 | 39.40 | 39.98 | 41.74 | 46.26 | 42.50 | 40.00 | 40.14 | 49.79 | 61.62 | 76.88 | |
| ACCUMULATED DISTANCE (m) KHOẢNG CÁCH CỘNG ĐÒN (m) | 109000.00 | 110000.00 | 111000.00 | 112000.00 | 113000.00 | 114000.00 | 114607.00 | 115000.00 | 115821.00 | 116000.00 | 117000.00 | 117718.60 | 118000.00 | 119000.00 | 119481.90 | 120000.00 | 121000.00 | 121998.40 | 123000.00 | 124000.00 | 125000.00 | 125517.00 | 126000.00 | 127000.00 | 127369.50 | |
| HORIZONTAL GEOMETRY ĐƯỜNG THẲNG, ĐƯỜNG CONG | L=1694.94m R=6000.00m L=9641.72m | | | | | | | | | | | | | | | | | | | | | | | | | |

HSR ALIGNMENT PLAN (HCMC - NHA TRANG SECTION) Scale = 1/50000



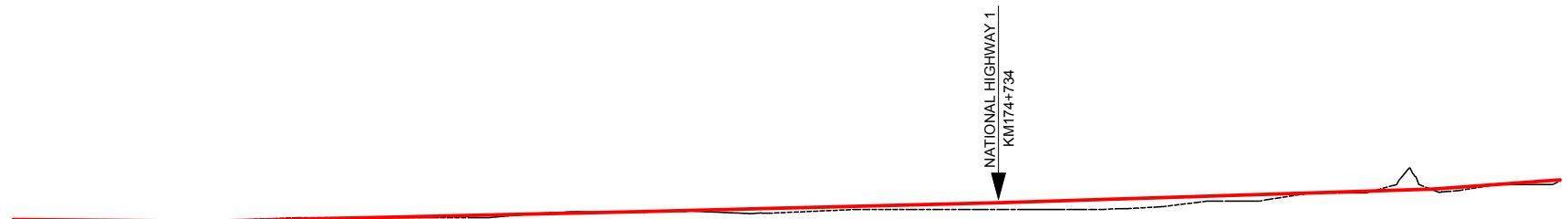
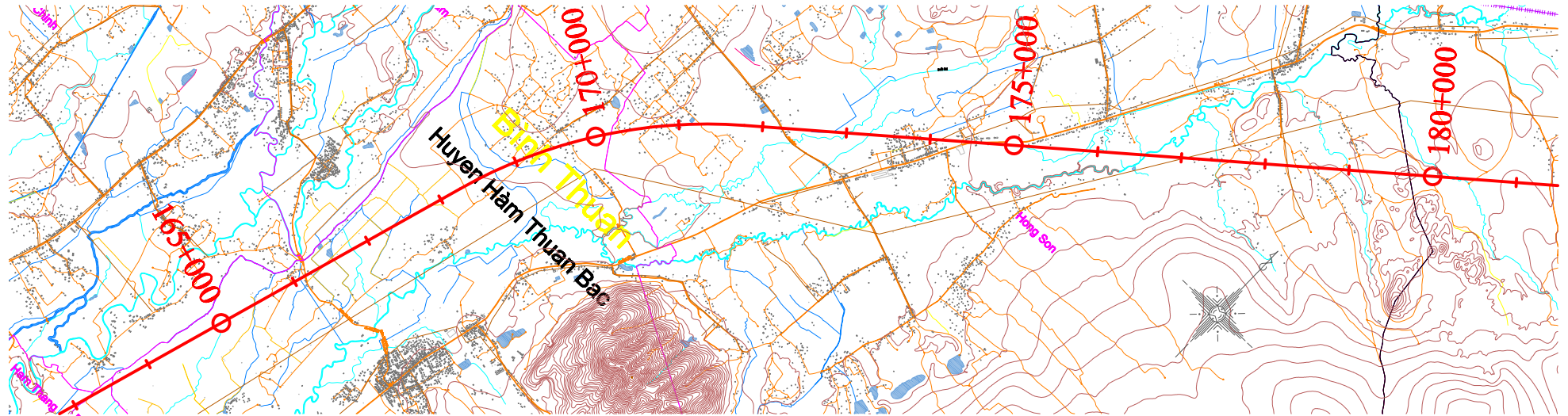
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|--|-----------------------------|-----------|-----------------------------|-----------|-----------|-----------|-----------------------------|-----------|-----------------------------|-----------|-----------|----------------------------|-----------|-----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------------|--|
| LONGITUDINAL GRADE (%) ĐỘ DỐC DỌC (%)/(m) | $i=-0.76\%$ $L=1919.58m$ | | $i=-0.01\%$ $L=4557.00m$ | | | | $i=-0.18\%$ $L=2153.92m$ | | $i=-0.40\%$ $L=2000.00m$ | | | $i=0.36\%$ $L=5043.67m$ | | | $i=-0.76\%$ $L=2956.33m$ | | | | | | | | |
| FINISH ELEVATION (M) CAO ĐỘ THIẾT KẾ (M) | 60.70 | 64.55 | 59.77 | 52.19 | 50.00 | 49.96 | 49.91 | 49.85 | 49.80 | 49.76 | 49.48 | 47.71 | 45.94 | 41.97 | 36.00 | 41.59 | 45.18 | 48.77 | 52.36 | 56.10 | 48.85 | 41.28 | |
| EXISTING ELEVATION (m) CAO ĐỘ TỰ NHIÊN (m) | 61.62 | 76.88 | 59.74 | 49.99 | 49.96 | 50.01 | 49.23 | 50.00 | 50.02 | 49.76 | 49.31 | 40.03 | 37.94 | 33.69 | 30.00 | 30.00 | 30.00 | 51.23 | 53.19 | 55.96 | 53.66 | 48.10 | |
| ACCUMULATED DISTANCE (m) KHOẢNG CÁCH CỘNG ĐÒN (m) | 127000.00 | 127369.50 | 128000.00 | 129000.00 | 129289.10 | 130000.00 | 131000.00 | 132000.00 | 133000.00 | 133846.10 | 134000.00 | 135000.00 | 136000.00 | 137000.00 | 138000.00 | 139000.00 | 140000.00 | 141000.00 | 142000.00 | 143043.70 | 144000.00 | 145000.00 | |
| HORIZONTAL GEOMETRY ĐƯỜNG THẲNG, ĐƯỜNG CONG | $L=236.42m$ $R=6000.00m$ | | $L=11827.44m$ | | | | | | | | | | | | | | | | | | | $L=2198.86m$ $R=6000.00m$ | |

HSR ALIGNMENT PLAN (HCMC - NHA TRANG SECTION) Scale = 1/50000



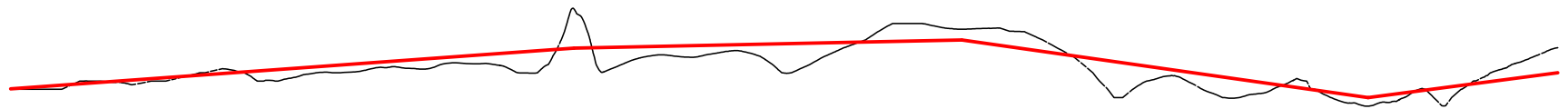
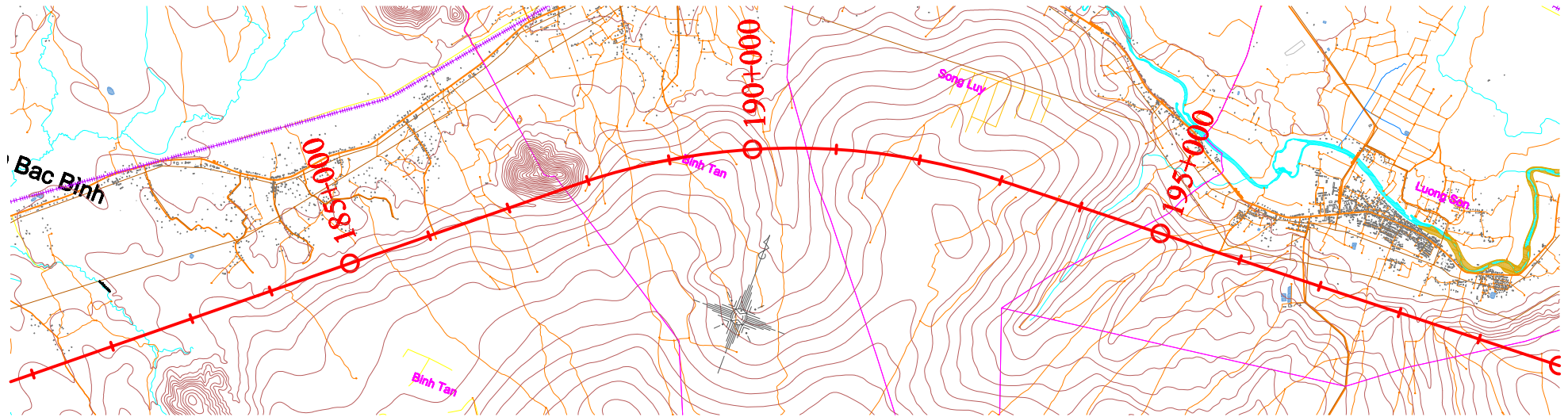
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|--|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|----------------------|-----------|-----------|-----------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| LONGITUDINAL GRADE (%) ĐỘ DỐC DỌC (%)/(m) | | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH ELEVATION (M) CAO ĐỘ THIẾT KẾ (M) | 41.28 | 33.70 | 31.85 | 30.00 | 30.00 | 30.00 | 30.00 | 29.71 | 28.83 | 28.88 | 30.00 | 29.60 | 28.89 | 28.17 | 28.07 | 28.04 | 28.01 | 28.00 | 26.23 | 23.89 | 21.55 | 19.21 | 18.05 | 17.65 |
| EXISTING ELEVATION (m) CAO ĐỘ TỰ NHIÊN (m) | 48.10 | 29.99 | 43.26 | 21.93 | 20.53 | 21.12 | 21.45 | 20.79 | 20.00 | 20.00 | 20.00 | 20.01 | 20.04 | 20.07 | 20.07 | 20.04 | 20.01 | 20.00 | 17.51 | 14.17 | 12.33 | 10.68 | 10.05 | 10.00 |
| ACCUMULATED DISTANCE (m) KHOẢNG CÁCH CỘNG ĐÒN (m) | 145000.00 | 146000.00 | 147000.00 | 148000.00 | 149000.00 | 150000.00 | 150672.40 | 151000.00 | 152000.00 | 152888.00 | 153450.00 | 154000.00 | 155000.00 | 156000.00 | 156137.00 | 157000.00 | 158000.00 | 158240.90 | 159000.00 | 160000.00 | 161000.00 | 162000.00 | 162500.00 | 163000.00 |
| HORIZONTAL GEOMETRY ĐƯỜNG THẲNG, ĐƯỜNG CONG | L=14629.42m | | | | | | | | | | | | | | | | L=4638.94m R=6000.00m | | | | | | | |

HSR ALIGNMENT PLAN (HCMC - NHA TRANG SECTION) Scale = 1/50000



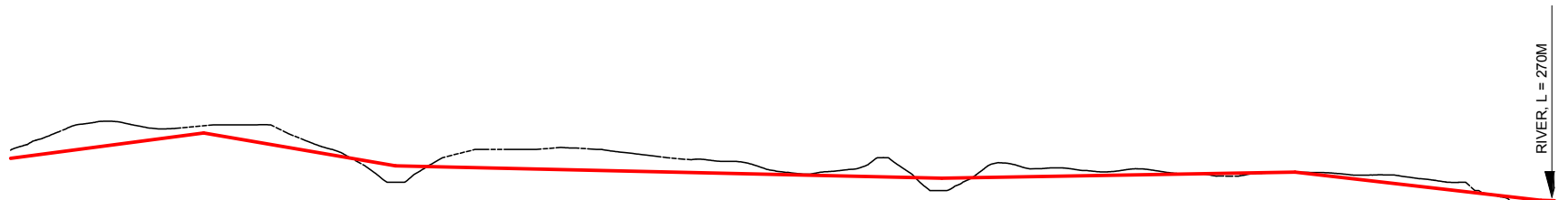
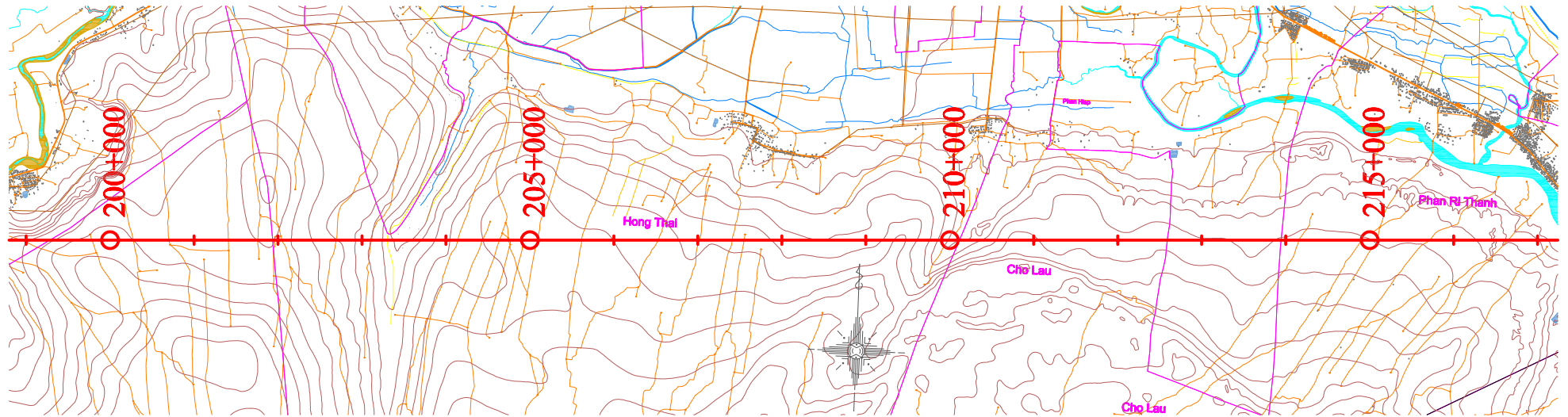
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|--|---------------------------------|-----------|--------------------------------|-----------|-----------|-----------|-----------|--------------------------------|----------------------------------|-----------|-----------|--------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| LONGITUDINAL GRADE (%) ĐỘ DỐC DỌC (%)/(m) | $i = -0.08\%$ $L = 2693.92m$ | | $i = 0.22\%$ $L = 5254.28m$ | | | | | $i = 0.25\%$ $L = 4285.79m$ | | | | $i = 0.32\%$ $L = 5266.00m$ | | | | | | | | | | | |
| FINISH ELEVATION (M) CAO ĐỘ THIẾT KẾ (M) | 17.65 | 16.85 | 16.05 | 15.90 | 17.66 | 19.86 | 22.05 | 24.25 | 26.44 | 27.43 | 28.79 | 31.26 | 33.73 | 36.20 | 38.01 | 38.85 | 42.00 | 45.15 | 48.30 | 51.45 | 53.71 | 54.60 | 61.83 |
| EXISTING ELEVATION (m) CAO ĐỘ TỰ NHIÊN (m) | 10.00 | 12.04 | 15.15 | 15.90 | 19.01 | 19.99 | 20.00 | 23.90 | 26.51 | 27.43 | 28.10 | 25.57 | 29.94 | 30.00 | 30.01 | 30.02 | 30.01 | 36.79 | 42.08 | 49.99 | 79.44 | 53.03 | 60.06 |
| ACCUMULATED DISTANCE (m) KHOẢNG CÁCH CỘNG ĐÒN (m) | 163000.00 | 164000.00 | 165000.00 | 165193.90 | 166000.00 | 167000.00 | 168000.00 | 169000.00 | 170000.00 | 170448.20 | 171000.00 | 172000.00 | 173000.00 | 174000.00 | 174734.00 | 175000.00 | 176000.00 | 177000.00 | 178000.00 | 179000.00 | 179717.00 | 180000.00 | 181000.00 |
| HORIZONTAL GEOMETRY ĐƯỜNG THẲNG, ĐƯỜNG CONG | $L = 7003.25m$ | | | | | | | | $L = 3516.85m$ $R = 6000.00m$ | | | | $L = 16034.71m$ | | | | | | | | | | |

HSR ALIGNMENT PLAN (HCMC - NHA TRANG SECTION) Scale = 1/50000



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|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| LONGITUDINAL GRADE (%) ĐỘ DỐC DỌC (%)/(m) | | | | | | | | | | | | | | | | | | | | | | | |
| FINISH ELEVATION (M) CAO ĐỘ THIẾT KẾ (M) | 61.83 | 69.06 | 76.29 | 83.52 | 90.75 | 97.98 | 105.21 | 110.00 | 110.72 | 112.84 | 114.96 | 117.08 | 117.08 | 119.20 | 120.00 | 111.14 | 96.97 | 82.80 | 68.62 | 54.45 | 50.00 | 58.97 | 72.04 |
| EXISTING ELEVATION (m) CAO ĐỘ TỰ NHIÊN (m) | 60.06 | 69.03 | 77.14 | 70.80 | 81.15 | 88.46 | 79.94 | 157.19 | 80.55 | 99.19 | 95.26 | 112.54 | 137.77 | 132.95 | 130.45 | 75.98 | 75.48 | 54.80 | 44.93 | 39.60 | 60.16 | 86.19 | |
| ACCUMULATED DISTANCE (m) KHOẢNG CÁCH CỘNG ĐÒN (m) | 181000.00 | 182000.00 | 183000.00 | 184000.00 | 185000.00 | 186000.00 | 187000.00 | 187663.00 | 188000.00 | 189000.00 | 190000.00 | 191000.00 | 192000.00 | 192375.00 | 193000.00 | 194000.00 | 195000.00 | 196000.00 | 197000.00 | 197314.00 | 198000.00 | 199000.00 | |
| HORIZONTAL GEOMETRY ĐƯỜNG THẲNG, ĐƯỜNG CONG | | | | | | | | | L=5244.54m R=8000.00m | | | | | | | | | | | | | | |

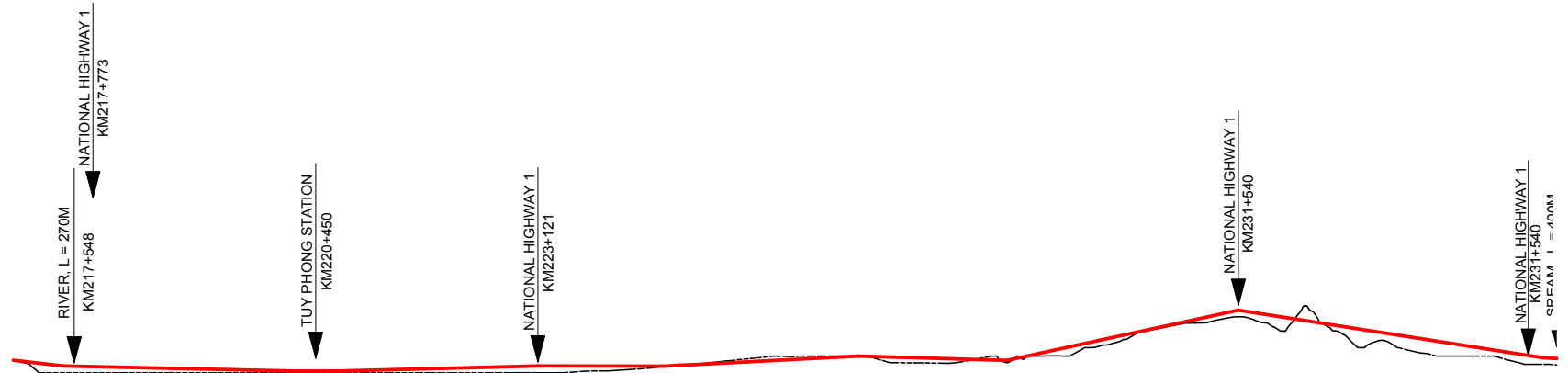
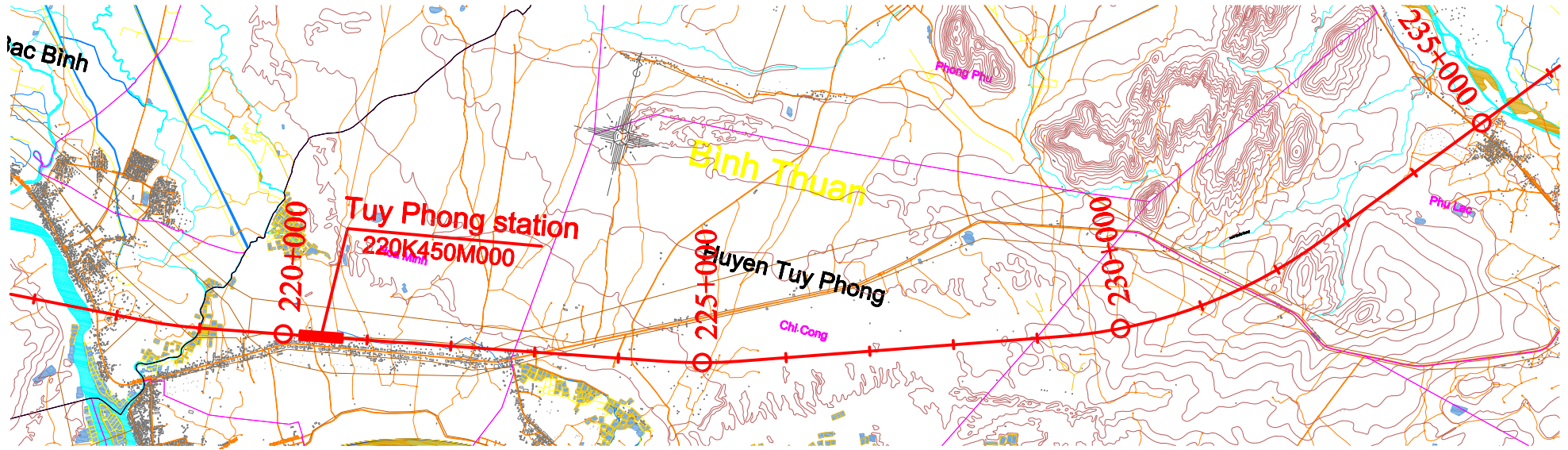
HSR ALIGNMENT PLAN (HCMC - NHA TRANG SECTION) Scale = 1/50000



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|--|----------------------------|-----------|-----------------------------|-----------|-----------------------------|-----------|-----------|-----------|----------------------------|-----------|-----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| LONGITUDINAL GRADE (%) ĐỘ DỐC DỌC (%)/(m) | $i=1.31\%$ $L=3825.50m$ | | $i=-1.71\%$ $L=2336.50m$ | | $i=-0.23\%$ $L=6646.50m$ | | | | $i=0.17\%$ $L=4297.94m$ | | | $i=-1.15\%$ $L=2992.56m$ | | | | | | | | | | |
| FINISH ELEVATION (M) CAO ĐỘ THIẾT KẾ (M) | 72.04 | 85.11 | 98.18 | 85.27 | 68.15 | 60.00 | 56.82 | 56.56 | 54.30 | 52.05 | 49.79 | 47.53 | 45.28 | 46.51 | 48.23 | 49.95 | 51.67 | 52.39 | 45.73 | 34.24 | 22.75 | 18.00 |
| EXISTING ELEVATION (m) CAO ĐỘ TỰ NHIÊN (m) | 86.19 | 114.42 | 107.57 | 107.89 | 65.72 | 39.97 | 67.22 | 80.03 | 79.80 | 68.07 | 55.65 | 55.61 | 39.89 | 61.74 | 53.11 | 50.72 | 50.95 | 52.39 | 50.20 | 43.91 | 20.54 | 10.00 |
| ACCUMULATED DISTANCE (m) KHOẢNG CÁCH CỘNG ĐÒN (m) | 199000.00 | 200000.00 | 201000.00 | 202000.00 | 203000.00 | 203476.00 | 204000.00 | 205000.00 | 206000.00 | 207000.00 | 208000.00 | 209000.00 | 210000.00 | 211000.00 | 212000.00 | 213000.00 | 214000.00 | 214420.40 | 215000.00 | 216000.00 | 217000.00 | 217413.00 |
| HORIZONTAL GEOMETRY ĐƯỜNG THẲNG, ĐƯỜNG CONG | $L=25243.47m$ | | | | | | | | | | | | | | | | | | | | | |

RIVER, L = 270M

HSR ALIGNMENT PLAN (HCMC - NHA TRANG SECTION) Scale = 1/50000



| LONGITUDINAL GRADE (%) ĐỘ DỐC DỌC (%)/(m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| FINISH ELEVATION (M) CAO ĐỘ THIẾT KẾ (M) | 22.75 | 18.00 | 16.74 | 14.58 | 12.43 | 12.00 | 12.16 | 12.74 | 15.22 | 17.70 | 17.85 | 17.74 | 19.63 | 24.85 | 26.86 | 27.02 | 24.85 | 30.06 | 51.75 | 73.45 | 85.16 | 77.98 | 62.36 | 46.74 | 31.12 | 28.00 | | |
| EXISTING ELEVATION (m) CAO ĐỘ TỰ NHIÊN (m) | 20.54 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 12.35 | 17.74 | 20.48 | 29.87 | 29.85 | 21.32 | 21.99 | 30.00 | 44.37 | 69.61 | 77.16 | 63.02 | 39.99 | 30.04 | 20.00 | 20.00 | | |
| ACCUMULATED DISTANCE (m) KHOẢNG CÁCH CỘNG ĐÒN (m) | 217000.00 | 217413.00 | 218000.00 | 219000.00 | 220000.00 | 220200.00 | 220763.50 | 221000.00 | 222000.00 | 223000.00 | 224000.00 | 224638.00 | 225000.00 | 226000.00 | 226906.60 | 228000.00 | 228760.00 | 229000.00 | 230000.00 | 231000.00 | 231540.00 | 232000.00 | 233000.00 | 234000.00 | 235000.00 | 235200.00 | | |
| HORIZONTAL GEOMETRY ĐƯỜNG THẲNG, ĐƯỜNG CONG | | | | | | | | | | | | | | | | | | | | | | | | | | | | |