

| Element | Point Type | Station | Northing | Easting | Radius | Length | Delta/Theta | Rotation Direction | Maximum Banking | Design Speed |
|----------|------------|-----------|------------|-------------|--------|--------|--------------|--------------------|-----------------|--------------|
| Curve 0 | PC | 182+85.89 | 536081.147 | 1686577.319 | 4200 | 649.91 | 8°51'57.52" | Right | Match Existing | 40 |
| | POC | 185+08.00 | 536011.658 | 1686788.256 | | | | | | |
| | PI | 186+11.49 | 535987.480 | 1686889.160 | | | | | | |
| | CC | | 532058.683 | 1685369.104 | | | | | | |
| Tangent | PT | 189+35.80 | 535846.871 | 1687182.840 | | | | | | |
| | PC | 192+82.40 | 535697.190 | 1687495.463 | | | | | | |
| Curve 1 | PC | 192+82.40 | 535697.190 | 1687495.463 | 1910 | 176.07 | 5°16'53.17" | Left | 0.037 | 40 |
| | PI | 193+70.50 | 535659.146 | 1687574.923 | | | | | | |
| | CC | | 537420.004 | 1688320.324 | | | | | | |
| Tangent | PT | 194+58.47 | 535628.578 | 1687657.547 | | | | | | |
| | PC | 203+31.06 | 535325.801 | 1688475.923 | | | | | | |
| Curve 2 | PC | 203+31.06 | 535325.801 | 1688475.923 | 2800 | 491.42 | 10°03'20.67" | Right | 0.027 | 40 |
| | PI | 205+77.41 | 535240.324 | 1688706.959 | | | | | | |
| | CC | | 532699.764 | 1687504.362 | | | | | | |
| | PT | 208+22.48 | 535115.820 | 1688919.521 | | | | | | |
| Tangent | PT | 208+22.48 | 535115.820 | 1688919.521 | | | | | | |
| | PC | 208+78.17 | 535087.676 | 1688967.571 | | | | | | |
| Curve 3 | PC | 208+78.17 | 535087.676 | 1688967.571 | 900 | 333.15 | 21°12'31.61" | Right | 0.062 | 40 |
| | PI | 210+46.67 | 535002.513 | 1689112.967 | | | | | | |
| | CC | | 534311.087 | 1688512.698 | | | | | | |
| | PT | 212+11.31 | 534870.518 | 1689217.706 | | | | | | |
| Tangent | PT | 212+11.31 | 534870.518 | 1689217.706 | | | | | | |
| | PC | 213+05.64 | 534796.630 | 1689276.337 | | | | | | |
| Curve 4 | PC | 213+05.64 | 534796.630 | 1689276.337 | 600 | 258.35 | 24°40'14.66" | Left | 0.054 | 40 |
| | PI | 214+36.85 | 534693.849 | 1689357.896 | | | | | | |
| | CC | | 535169.585 | 1689746.343 | | | | | | |
| | PT | 215+63.99 | 534634.491 | 1689474.911 | | | | | | |
| Tangent | PT | 215+63.99 | 534634.491 | 1689474.911 | | | | | | |
| | PC | 224+46.98 | 534235.038 | 1690262.383 | | | | | | |
| Curve 5 | PC | 224+46.98 | 534235.038 | 1690262.383 | 1100 | 326.41 | 17°00'06.93" | Right | 0.055 | 40 |
| | PI | 226+11.40 | 534160.659 | 1690409.012 | | | | | | |
| | CC | | 533254.034 | 1689764.759 | | | | | | |
| | PT | 227+73.39 | 534046.656 | 1690527.484 | | | | | | |
| Tangent | PT | 227+73.39 | 534046.656 | 1690527.484 | | | | | | |
| | PC | 229+20.39 | 533944.733 | 1690633.402 | | | | | | |
| Curve 6 | PC | 229+20.39 | 533944.733 | 1690633.402 | 650 | 439.97 | 38°46'54.84" | Left | 0.060 | 50 |
| | PI | 231+49.17 | 533786.096 | 1690798.257 | | | | | | |
| | CC | | 534413.101 | 1691084.104 | | | | | | |
| | PT | 233+60.35 | 533765.691 | 1691026.131 | | | | | | |
| Tangent | PT | 233+60.35 | 533765.691 | 1691026.131 | | | | | | |
| | PC | 233+93.86 | 533762.703 | 1691059.505 | | | | | | |
| Curve 7 | PC | 233+93.86 | 533762.703 | 1691059.505 | 1020 | 575.89 | 32°20'57.69" | Right | 0.075 | 50 |
| | PI | 236+89.71 | 533736.317 | 1691354.175 | | | | | | |
| | CC | | 532746.768 | 1690968.534 | | | | | | |
| | PT | 239+69.76 | 533556.354 | 1691588.993 | | | | | | |
| Tangent | PT | 239+69.76 | 533556.354 | 1691588.993 | | | | | | |
| | PC | 246+74.61 | 533127.595 | 1692148.445 | | | | | | |
| Curve 8 | PC | 246+74.61 | 533127.595 | 1692148.445 | 2100 | 303.16 | 8°16'17.23" | Left | 0.049 | 50 |
| | PI | 248+26.46 | 533035.228 | 1692268.967 | | | | | | |
| | CC | | 534794.390 | 1693425.862 | | | | | | |
| | PT | 249+77.78 | 532961.160 | 1692401.524 | | | | | | |
| Tangent | PT | 249+77.78 | 532961.160 | 1692401.524 | | | | | | |
| | PC | 254+57.38 | 532727.219 | 1692820.201 | | | | | | |
| Curve 9 | PC | 254+57.38 | 532727.219 | 1692820.201 | 1400 | 187.51 | 7°40'25.57" | Right | 0.064 | 50 |
| | PI | 255+51.27 | 532681.420 | 1692902.167 | | | | | | |
| | CC | | 531505.066 | 1692137.309 | | | | | | |
| | PT | 256+44.88 | 532625.086 | 1692977.283 | | | | | | |
| Tangent | PT | 256+44.88 | 532625.086 | 1692977.283 | | | | | | |
| | PC | 258+26.56 | 532516.085 | 1693122.625 | | | | | | |
| Curve 10 | PC | 258+26.56 | 532516.085 | 1693122.625 | 405 | 507.56 | 71°48'17.39" | Left | 0.060 | 50 |
| | PI | 261+19.76 | 532340.172 | 1693357.187 | | | | | | |
| | CC | | 532840.090 | 1693365.617 | | | | | | |
| | PT | 263+34.12 | 532508.076 | 1693597.547 | | | | | | |
| Tangent | PT | 263+34.12 | 532508.076 | 1693597.547 | | | | | | |
| | PC | 271+12.81 | 532954.003 | 1694235.907 | | | | | | |
| Curve 11 | PC | 271+12.81 | 532954.003 | 1694235.907 | 740 | 350.49 | 27°08'13.34" | Right | 0.060 | 50 |
| | PI | 272+91.40 | 533056.278 | 1694382.317 | | | | | | |
| | CC | | 532347.359 | 1694659.679 | | | | | | |
| | PT | 274+63.29 | 533080.513 | 1694559.259 | | | | | | |

| Element | Point Type | Station | Northing | Easting | Radius | Length | Delta/Theta | Rotation Direction | Maximum Banking | Design Speed |
|----------|------------|-----------|------------|-------------|--------|--------|--------------|--------------------|-----------------|--------------|
| Tangent | PT | 274+63.29 | 533080.513 | 1694559.259 | | | | | | |
| | PC | 281+06.22 | 533167.760 | 1695196.238 | | | | | | |
| Curve 12 | PC | 281+06.22 | 533167.760 | 1695196.238 | 1180 | 817.83 | 39°42'36.64" | Right | 0.070 | 50 |
| | PI | 285+32.33 | 533225.584 | 1695618.404 | | | | | | |
| | CC | | 531998.675 | 1695356.367 | | | | | | |
| | PT | 289+24.04 | 533000.343 | 1695980.115 | | | | | | |
| Tangent | PT | 289+24.04 | 533000.343 | 1695980.115 | | | | | | |
| | PC | 299+59.33 | 532453.092 | 1696858.936 | | | | | | |
| Curve 13 | PC | 299+59.33 | 532453.092 | 1696858.936 | 2300 | 578.39 | 14°24'30.21" | Left | 0.046 | 50 |
| | PI | 302+50.06 | 532299.413 | 1697105.727 | | | | | | |
| | CC | | 534405.495 | 1698074.717 | | | | | | |
| | PT | 305+37.72 | 532211.977 | 1697382.996 | | | | | | |
| Tangent | PT | 305+37.72 | 532211.977 | 1697382.996 | | | | | | |
| | PC | 309+52.67 | 532087.180 | 1697778.739 | | | | | | |
| Curve 14 | PC | 309+52.67 | 532087.180 | 1697778.739 | 860 | 489.69 | 32°37'29.73" | Right | 0.040 | 50 |
| | PI | 312+04.36 | 532011.487 | 1698018.772 | | | | | | |
| | CC | | 531266.995 | 1697520.096 | | | | | | |
| | PT | 314+42.37 | 531818.326 | 1698180.123 | | | | | | |
| Tangent | PT | 314+42.37 | 531818.326 | 1698180.123 | | | | | | |
| | PC | 319+14.21 | 531456.198 | 1698482.613 | | | | | | |
| Curve 15 | PC | 319+14.21 | 531456.198 | 1698482.613 | 1460 | 673.37 | 26°25'31.87" | Right | 0.062 | 50 |
| | PI | 322+56.99 | 531193.121 | 1698702.365 | | | | | | |
| | CC | | 530520.218 | 1697362.103 | | | | | | |
| | PT | 325+87.58 | 530859.736 | 1698782.078 | | | | | | |
| Tangent | PT | 325+87.58 | 530859.736 | 1698782.078 | | | | | | |
| | PC | 341+80.54 | 529310.443 | 1699152.515 | | | | | | |
| Curve 16 | PC | 341+80.54 | 529310.443 | 1699152.515 | 1910 | 546.01 | 16°22'45.14" | Left | 0.052 | 50 |
| | PI | 344+55.43 | 529043.097 | 1699216.438 | | | | | | |
| | CC | | 529754.606 | 1701010.153 | | | | | | |
| | PT | 347+26.56 | 528804.627 | 1699353.156 | | | | | | |
| Tangent | PT | 347+26.56 | 528804.627 | 1699353.156 | | | | | | |
| | PC | 355+70.09 | 528072.830 | 1699772.705 | | | | | | |
| Curve 17 | PC | 355+70.09 | 528072.830 | 1699772.705 | 3400 | 295.70 | 4°58'58.68" | Right | 0.033 | 50 |
| | PI | 357+18.03 | 527944.485 | 1699846.286 | | | | | | |
| | CC | | 526381.768 | 1696823.076 | | | | | | |
| | PT | 358+65.79 | 527810.235 | 1699908.442 | | | | | | |
| Tangent | PT | 358+65.79 | 527810.235 | 1699908.442 | | | | | | |
| | PC | 369+75.71 | 527619.741 | 1699996.637 | | | | | | |
| Curve 18 | PC | 369+75.71 | 527619.741 | 1699996.637 | 1540 | 398.28 | 14°49'04.33" | Left | 0.060 | 50 |
| | PI | 362+75.96 | 527438.018 | 1700080.771 | | | | | | |
| | CC | | 528266.753 | 1701394.126 | | | | | | |
| | PT | 364+73.98 | 527283.854 | 1700208.583 | | | | | | |
| Tangent | PT | 364+73.98 | 527283.854 | 1700208.583 | | | | | | |
| | PC | 372+60.40 | 526678.444 | 1700710.511 | | | | | | |
| Curve 19 | PC | 372+60.40 | 526678.444 | 1700710.511 | 1040 | 301.13 | 16°35'24.05" | Left | 0.074 | 50 |
| | PI | 374+12.03 | 526561.716 | 1700807.287 | | | | | | |
| | CC | | 527342.219 | 1701511.137 | | | | | | |
| | PT | 375+61.53 | 526477.479 | 1700933.361 | | | | | | |
| Tangent | PT | 375+61.53 | 526477.479 | 1700933.361 | | | | | | |
| | PC | 377+02.35 | 526399.246 | 1701050.451 | | | | | | |
| Curve 20 | PC | 377+02.35 | 526399.246 | 1701050.451 | 1200 | 689.86 | 32°56'17.46" | Right | 0.070 | 50 |
| | PI | 380+57.10 | 526202.162 | 1701345.421 | | | | | | |
| | CC | | 525401.469 | 1700383.786 | | | | | | |
| | PT | 383+92.21 | 525876.373 | 1701485.815 | | | | | | |
| Tangent | PT | 383+92.21 | 525876.373 | 1701485.815 | | | | | | |
| | PC | 398+47.38 | 524540.003 | 1702061.704 | | | | | | |
| Curve 21 | PC | 398+47.38 | 524540.003 | 1702061.704 | 820 | 418.47 | 29°14'23.79" | Right | 0.060 | 50 |
| | PI | 400+61.28 | 524343.568 | 1702146.356 | | | | | | |
| | CC | | 524215.486 | 1701308.652 | | | | | | |
| | PT | 402+65.86 | 524130.812 | 1702124.268 | | | | | | |
| Tangent | PT | 402+65.86 | 524130.812 | 1702124.268 | | | | | | |
| | PC | 406+68.57 | 523730.253 | 1702082.684 | | | | | | |

HORIZONTAL ALIGNMENT SHEET 1

PROJECT NAME: VERSHIRE-THETFORD

PROJECT NUMBER: STP 2911(I)

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|----------------------------|----------------------|
| FILE NAME: pl0c224.dgn | PLOT DATE: 1/29/2013 |
| PROJECT LEADER: PTS | DRAWN BY: JLS |
| DESIGNED BY: NULL | CHECKED BY: PTS |
| IPARM FILE NAME: IOC224_97 | SHEET 97 OF 232 |