

| Element | Type | Station | Elevation | Length | Entrance Grade | Exit Grade | K | Middle Ordinate | SSD/HSD |
|----------------------|-------|-----------|-----------|--------|----------------|------------|-----|-----------------|---------|
| Linear | POVT | 187+70.00 | 1209.27 | | | | | | |
| | POVT | 188+00.00 | 1208.49 | | | | | | |
| | POVT | 188+50.00 | 1207.17 | | | | | | |
| | POVT | 189+00.00 | 1205.54 | | | | | | |
| | POVT | 189+50.00 | 1203.63 | | | | | | |
| | POVT | 190+00.00 | 1201.57 | | | | | | |
| | POVT | 190+50.00 | 1199.40 | | | | | | |
| | POVT | 191+00.00 | 1197.23 | | | | | | |
| Symmetrical Parabola | PVC | 191+28.00 | 1196.01 | 400 | -4.34% | -5.26% | 433 | -0.46 | 1368 |
| | POVC | 191+50.00 | 1195.05 | | | | | | |
| | POVC | 192+00.00 | 1192.83 | | | | | | |
| | POVC | 192+50.00 | 1190.55 | | | | | | |
| | POVC | 193+00.00 | 1188.21 | | | | | | |
| | PVI | 193+28.00 | 1187.34 | | | | | | |
| | POVC | 193+50.00 | 1185.81 | | | | | | |
| | POVC | 194+00.00 | 1183.36 | | | | | | |
| | POVC | 194+50.00 | 1180.85 | | | | | | |
| | POVC | 195+00.00 | 1178.28 | | | | | | |
| | PVT | 195+28.00 | 1176.81 | | | | | | |
| | PVT | 195+28.00 | 1176.81 | | | | | | |
| Linear | POVT | 195+50.00 | 1175.66 | 24 | -5.26% | | | | |
| | PVC | 195+52.00 | 1175.55 | | | | | | |
| | PVC | 195+52.00 | 1175.55 | | | | | | |
| Symmetrical Parabola | POVC | 196+00.00 | 1173.21 | 280 | -5.26% | -0.83% | 63 | 1.55 | |
| | POVC | 196+50.00 | 1171.15 | | | | | | |
| | PVI | 196+92.00 | 1168.18 | | | | | | |
| | POVC | 197+00.00 | 1169.49 | | | | | | |
| | POVC | 197+50.00 | 1168.23 | | | | | | |
| | POVC | 198+00.00 | 1167.37 | | | | | | |
| | PVT | 198+32.00 | 1167.02 | | | | | | |
| | PVT | 198+32.00 | 1167.02 | | | | | | |
| Linear | POVT | 198+50.00 | 1166.87 | 55 | -0.83% | | | | |
| | PVC | 198+87.00 | 1166.56 | | | | | | |
| | PVC | 198+87.00 | 1166.56 | | | | | | |
| Symmetrical Parabola | POVC | 199+00.00 | 1166.44 | 150 | -0.83% | -2.53% | 89 | -0.32 | 712 |
| | POVC | 199+50.00 | 1165.81 | | | | | | |
| | PVI | 199+62.00 | 1165.94 | | | | | | |
| | POVC | 200+00.00 | 1164.90 | | | | | | |
| | PVT | 200+37.00 | 1164.04 | | | | | | |
| | PVT | 200+37.00 | 1164.04 | | | | | | |
| Linear | POVT | 200+50.00 | 1163.71 | 302 | -2.53% | | | | |
| | POVT | 201+00.00 | 1162.45 | | | | | | |
| | POVT | 201+50.00 | 1161.19 | | | | | | |
| | POVT | 202+00.00 | 1159.92 | | | | | | |
| | POVT | 202+50.00 | 1158.66 | | | | | | |
| | POVT | 203+00.00 | 1157.40 | | | | | | |
| | PVC | 203+39.00 | 1156.41 | | | | | | |
| | PVC | 203+39.00 | 1156.41 | | | | | | |
| Symmetrical Parabola | POVC | 203+50.00 | 1156.15 | 100 | -2.53% | 0.21% | 37 | 0.34 | |
| | PVI | 203+89.00 | 1155.15 | | | | | | |
| | POVC | 204+00.00 | 1155.38 | | | | | | |
| | VLOW | 204+31.40 | 1155.25 | | | | | | |
| | PVT | 204+39.00 | 1155.25 | | | | | | |
| | PVT | 204+39.00 | 1155.25 | | | | | | |
| Linear | POVT | 204+50.00 | 1155.28 | 61 | 0.21% | | | | |
| | PVC | 205+00.00 | 1155.38 | | | | | | |
| | PVC | 205+00.00 | 1155.38 | | | | | | |
| | VHIGH | 205+10.12 | 1155.39 | | | | | | |
| | POVC | 205+50.00 | 1155.23 | | | | | | |
| | PVI | 205+75.00 | 1155.54 | | | | | | |
| | POVC | 206+00.00 | 1154.56 | | | | | | |
| | PVT | 206+50.00 | 1153.38 | | | | | | |
| Linear | PVT | 206+50.00 | 1153.38 | 225 | -2.87% | | | | |
| | POVT | 207+00.00 | 1151.95 | | | | | | |
| | POVT | 207+50.00 | 1150.51 | | | | | | |
| | POVT | 208+00.00 | 1149.07 | | | | | | |
| | POVT | 208+50.00 | 1147.64 | | | | | | |
| | PVC | 208+75.00 | 1146.92 | | | | | | |
| | PVC | 208+75.00 | 1146.92 | | | | | | |
| | POVC | 209+00.00 | 1146.13 | | | | | | |
| Symmetrical Parabola | POVC | 209+50.00 | 1144.17 | 220 | -2.87% | -7.53% | 47 | -1.28 | 342 |
| | PVI | 209+85.00 | 1143.76 | | | | | | |
| | POVC | 210+00.00 | 1141.67 | | | | | | |
| | POVC | 210+50.00 | 1138.65 | | | | | | |
| | PVT | 210+95.00 | 1135.48 | | | | | | |
| | PVT | 210+95.00 | 1135.48 | | | | | | |
| | POVT | 211+00.00 | 1135.10 | | | | | | |
| | POVT | 211+50.00 | 1131.33 | | | | | | |
| Linear | PVC | 211+85.00 | 1128.70 | 90 | -7.53% | | | | |
| | PVC | 211+85.00 | 1128.70 | | | | | | |

| Element | Type | Station | Elevation | Length | Entrance Grade | Exit Grade | K | Middle Ordinate | SSD/HSD |
|----------------------|------|-----------|-----------|--------|----------------|------------|-----|-----------------|---------|
| Symmetrical Parabola | PVC | 211+85.00 | 1128.70 | 80 | -7.53% | -0.80% | 12 | 0.67 | |
| | POVC | 212+00.00 | 1127.66 | | | | | | |
| | PVI | 212+25.00 | 1125.69 | | | | | | |
| | POVC | 212+50.00 | 1125.58 | | | | | | |
| | PVT | 212+65.00 | 1125.37 | | | | | | |
| Linear | PVT | 212+65.00 | 1125.37 | 72 | -0.80% | | | | |
| | POVT | 213+00.00 | 1125.09 | | | | | | |
| | PVC | 213+37.00 | 1124.79 | | | | | | |
| Symmetrical Parabola | PVC | 213+37.00 | 1124.79 | 250 | -0.80% | -1.76% | 260 | -0.30 | 1246 |
| | POVC | 213+50.00 | 1124.68 | | | | | | |
| | POVC | 214+00.00 | 1124.21 | | | | | | |
| | POVC | 214+50.00 | 1123.64 | | | | | | |
| | PVI | 214+62.00 | 1123.79 | | | | | | |
| | POVC | 215+00.00 | 1122.97 | | | | | | |
| | POVC | 215+50.00 | 1122.21 | | | | | | |
| | PVT | 215+87.00 | 1121.58 | | | | | | |
| | PVT | 215+87.00 | 1121.58 | | | | | | |
| | POVT | 216+00.00 | 1121.35 | | | | | | |
| Linear | POVT | 216+50.00 | 1120.47 | 313 | -1.76% | | | | |
| | POVT | 217+00.00 | 1119.59 | | | | | | |
| | POVT | 217+50.00 | 1118.71 | | | | | | |
| | POVT | 218+00.00 | 1117.83 | | | | | | |
| | POVT | 218+50.00 | 1116.94 | | | | | | |
| | PVC | 219+00.00 | 1116.06 | | | | | | |
| | PVC | 219+00.00 | 1116.06 | | | | | | |
| | POVC | 219+50.00 | 1115.04 | | | | | | |
| | PVI | 220+00.00 | 1114.30 | | | | | | |
| | POVC | 220+50.00 | 1112.18 | | | | | | |
| Symmetrical Parabola | PVT | 221+00.00 | 1110.33 | 200 | -1.76% | -3.97% | 91 | -0.55 | 589 |
| | PVT | 221+00.00 | 1110.33 | | | | | | |
| | POVT | 221+50.00 | 1108.34 | | | | | | |
| | POVT | 222+00.00 | 1106.36 | | | | | | |
| | POVT | 222+50.00 | 1104.38 | | | | | | |
| | POVT | 223+00.00 | 1102.39 | | | | | | |
| | POVT | 223+50.00 | 1100.41 | | | | | | |
| | PVC | 223+70.00 | 1099.61 | | | | | | |
| | PVC | 223+70.00 | 1099.61 | | | | | | |
| | POVC | 224+00.00 | 1098.49 | | | | | | |
| Symmetrical Parabola | POVC | 224+50.00 | 1096.94 | 250 | -3.97% | -0.04% | 64 | 1.23 | |
| | PVI | 224+95.00 | 1094.65 | | | | | | |
| | POVC | 225+00.00 | 1095.78 | | | | | | |
| | POVC | 225+50.00 | 1095.01 | | | | | | |
| | POVC | 226+00.00 | 1094.63 | | | | | | |
| | PVT | 226+20.00 | 1094.59 | | | | | | |
| | PVT | 226+20.00 | 1094.59 | | | | | | |
| | POVT | 226+50.00 | 1094.58 | | | | | | |
| | PVC | 226+65.00 | 1094.57 | | | | | | |
| | PVC | 226+65.00 | 1094.57 | | | | | | |
| Symmetrical Parabola | POVC | 227+00.00 | 1094.49 | 260 | -0.04% | -2.95% | 89 | -0.94 | 501 |
| | POVC | 227+50.00 | 1094.13 | | | | | | |
| | PVI | 227+95.00 | 1094.52 | | | | | | |
| | POVC | 228+00.00 | 1093.50 | | | | | | |
| | POVC | 228+50.00 | 1092.58 | | | | | | |
| | POVC | 229+00.00 | 1091.38 | | | | | | |
| | PVT | 229+25.00 | 1090.68 | | | | | | |
| | PVT | 229+25.00 | 1090.68 | | | | | | |
| | POVT | 229+50.00 | 1089.94 | | | | | | |
| | POVT | 230+00.00 | 1088.47 | | | | | | |
| Linear | POVT | 230+50.00 | 1086.99 | 415 | -2.95% | | | | |
| | POVT | 231+00.00 | 1085.52 | | | | | | |
| | POVT | 231+50.00 | 1084.04 | | | | | | |
| | POVT | 232+00.00 | 1082.57 | | | | | | |
| | POVT | 232+50.00 | 1081.09 | | | | | | |
| | POVT | 233+00.00 | 1079.62 | | | | | | |
| | PVC | 233+40.00 | 1078.44 | | | | | | |
| | PVC | 233+40.00 | 1078.44 | | | | | | |
| | POVC | 233+50.00 | 1078.15 | | | | | | |
| | POVC | 234+00.00 | 1076.89 | | | | | | |
| Symmetrical Parabola | PVI | 234+25.00 | 1075.93 | 170 | -2.95% | -0.85% | 81 | 0.45 | |
| | POVC | 234+50.00 | 1075.94 | | | | | | |
| | POVC | 235+00.00 | 1075.30 | | | | | | |
| | PVT | 235+10.00 | 1075.21 | | | | | | |
| | PVT | 235+10.00 | 1075.21 | | | | | | |
| | POVT | 235+50.00 | 1074.87 | | | | | | |
| Linear | PVC | 235+85.00 | 1074.58 | 75 | -0.85% | | | | |
| | PVC | 235+85.00 | 1074.58 | | | | | | |

VERTICAL ALIGNMENT SHEET 1

PROJECT NAME: VERSHIRE-THETFORD

PROJECT NUMBER: STP 291(I)

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_I00

SHEET 100 OF 232