

# Horizontal Alignment Review Report

Report Created: Tuesday, October 18, 2022

Time: 7:04:43 AM

**Project:** Design**Description:**

**File Name:** c:\users\btieben\appdata\local\bentley\projectwise\workingdir\ohiodot-pw.bentley.com\_ohiodot-pw-02\brett.tieben@dot.ohio.gov\d0326599\115000\_ERI-250-10.63\_BR001.dgn

**Last Revised:** 10/18/2022 07:04:24

**Note:** All units in this report are in feet unless specified otherwise.

**Alignment Name:** CLX\_250**Alignment Description:****Alignment Style:** Alignment\GE\_X\_Alignment

|                       |     | <u>Station</u>  | <u>Northing</u> | <u>Easting</u> |
|-----------------------|-----|-----------------|-----------------|----------------|
| Element: Linear       |     |                 |                 |                |
| POT                   | ( ) | 513+57.950 R1   | 299821.945      | 145913.876     |
| HPI                   | ( ) | 519+19.090 R1   | 299347.876      | 146214.105     |
| Tangential Direction: |     | S32°20'46.369"E |                 |                |
| Tangential Length:    |     | 561.140         |                 |                |
| Element: Linear       |     |                 |                 |                |
| HPI                   | ( ) | 519+19.090 R1   | 299347.876      | 146214.105     |
| HPI                   | ( ) | 524+98.220 R1   | 298857.173      | 146521.679     |
| Tangential Direction: |     | S32°04'46.369"E |                 |                |
| Tangential Length:    |     | 579.130         |                 |                |
| Element: Linear       |     |                 |                 |                |
| HPI                   | ( ) | 524+98.220 R1   | 298857.173      | 146521.679     |
| HPI                   | ( ) | 555+32.440 R1   | 296293.771      | 148145.089     |
| Tangential Direction: |     | S32°20'46.369"E |                 |                |
| Tangential Length:    |     | 3034.220        |                 |                |
| Element: Linear       |     |                 |                 |                |
| HPI                   | ( ) | 555+32.440 R1   | 296293.771      | 148145.089     |
| HPI                   | ( ) | 555+32.440 R2   | 296292.701      | 148143.400     |
| Tangential Direction: |     | S57°39'13.631"W |                 |                |
| Tangential Length:    |     | 2.000           |                 |                |
| Element: Linear       |     |                 |                 |                |
| HPI                   | ( ) | 555+32.440 R2   | 296292.701      | 148143.400     |
| EQNBK                 |     | 555+34.440 R1   | 296292.701      | 148143.400     |
| EQNAHD                |     | 555+32.440 R2   | 296292.701      | 148143.400     |
| PC                    | ( ) | 556+76.252 R2   | 296171.204      | 148220.344     |
| Tangential Direction: |     | S32°20'46.369"E |                 |                |

|                            |     |                     |            |            |
|----------------------------|-----|---------------------|------------|------------|
| Tangential Length:         |     | 143.812             |            |            |
| Element: Circular          |     |                     |            |            |
| PC                         | ( ) | 556+76.252 R2       | 296171.204 | 148220.344 |
| HPI                        | ( ) | 574+31.441 R2       | 294688.367 | 149159.430 |
| CC                         | ( ) |                     | 294631.745 | 145789.505 |
| PT                         | ( ) | 588+28.331 R2       | 293174.819 | 148270.690 |
| Radius:                    |     | 2877.310            |            |            |
| Delta:                     |     | 62°46'02.053" Right |            |            |
| Degree of Curvature (Arc): |     | 01°59'28.668"       |            |            |
| Length:                    |     | 3152.079            |            |            |
| Tangent:                   |     | 1755.189            |            |            |
| Chord:                     |     | 2996.808            |            |            |
| Middle Ordinate:           |     | 420.951             |            |            |
| External:                  |     | 493.091             |            |            |
| Back Tangent Direction:    |     | S32°20'46.369"E     |            |            |
| Back Radial Direction:     |     | S57°39'13.631"W     |            |            |
| Chord Direction:           |     | S00°57'45.343"E     |            |            |
| Ahead Radial Direction:    |     | N59°34'44.317"W     |            |            |
| Ahead Tangent Direction:   |     | S30°25'15.683"W     |            |            |
| Element: Linear            |     |                     |            |            |
| PT                         | ( ) | 588+28.331 R2       | 293174.819 | 148270.690 |
| PC                         | ( ) | 596+90.260 R2       | 292431.553 | 147834.252 |
| Tangential Direction:      |     | S30°25'15.683"W     |            |            |
| Tangential Length:         |     | 861.929             |            |            |
| Element: Circular          |     |                     |            |            |
| PC                         | ( ) | 596+90.260 R2       | 292431.553 | 147834.252 |
| HPI                        | ( ) | 608+50.540 R2       | 291431.012 | 147246.744 |
| CC                         | ( ) |                     | 291251.261 | 149844.321 |
| PT                         | ( ) | 618+43.422 R2       | 290359.084 | 147690.838 |
| Radius:                    |     | 2330.980            |            |            |
| Delta:                     |     | 52°55'30.000" Left  |            |            |
| Degree of Curvature (Arc): |     | 02°27'28.845"       |            |            |
| Length:                    |     | 2153.162            |            |            |
| Tangent:                   |     | 1160.280            |            |            |
| Chord:                     |     | 2077.425            |            |            |
| Middle Ordinate:           |     | 244.226             |            |            |
| External:                  |     | 272.809             |            |            |
| Back Tangent Direction:    |     | S30°25'15.683"W     |            |            |
| Back Radial Direction:     |     | N59°34'44.317"W     |            |            |
| Chord Direction:           |     | S03°57'30.683"W     |            |            |
| Ahead Radial Direction:    |     | S67°29'45.683"W     |            |            |
| Ahead Tangent Direction:   |     | S22°30'14.317"E     |            |            |
| Element: Linear            |     |                     |            |            |
| PT                         | ( ) | 618+43.422 R2       | 290359.084 | 147690.838 |

|                       |     |                 |            |            |
|-----------------------|-----|-----------------|------------|------------|
| POT                   | ( ) | 621+21.492 R2   | 290102.188 | 147797.268 |
| Tangential Direction: |     | S22°30'14.221"E |            |            |
| Tangential Length:    |     | 278.070         |            |            |