

## Horizontal Alignment Review Report

Report Created: Wednesday, August 18, 2021  
Time: 8:21:39 AM

**Project:** Design

**Description:**

**File Name:** c:\users\jpenix\appdata\local\bentley\projectwise\workingdir\ohiodot-pw.bentley.com\_ohiodot-pw-02\jon.penix@dot.ohio.gov\d0345762\102408\_BK001.dgn

**Last Revised:** 8/17/2021 16:54:09

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

**Alignment Name:** CL\_CONST\_US250

**Alignment Description:**

**Alignment Style:** Alignment\GE\_X\_Alignment

|                            |     | <u>Station</u>      | <u>Northing</u> | <u>Easting</u> |
|----------------------------|-----|---------------------|-----------------|----------------|
| Element: Linear            |     |                     |                 |                |
| POT                        | ( ) | 300+00.00 R1        | 269245.058      | 2295519.174    |
| PC                         | ( ) | 305+89.21 R1        | 269751.550      | 2295820.232    |
| Tangential Direction:      |     | N30°43'37.822"E     |                 |                |
| Tangential Length:         |     | 589.211             |                 |                |
| Element: Circular          |     |                     |                 |                |
| PC                         | ( ) | 305+89.21 R1        | 269751.550      | 2295820.232    |
| HPI                        | ( ) | 308+90.85 R1        | 270010.843      | 2295974.355    |
| CC                         | ( ) |                     | 268550.816      | 2297840.315    |
| PCC                        | ( ) | 311+89.21 R1        | 270222.806      | 2296188.968    |
| Radius:                    |     | 2350.000            |                 |                |
| Delta:                     |     | 14°37'43.355" Right |                 |                |
| Degree of Curvature (Arc): |     | 02°26'17.226"       |                 |                |
| Length:                    |     | 600.000             |                 |                |
| Tangent:                   |     | 301.640             |                 |                |
| Chord:                     |     | 598.372             |                 |                |
| Middle Ordinate:           |     | 19.123              |                 |                |
| External:                  |     | 19.280              |                 |                |
| Back Tangent Direction:    |     | N30°43'37.822"E     |                 |                |
| Back Radial Direction:     |     | S59°16'22.178"E     |                 |                |
| Chord Direction:           |     | N38°02'29.499"E     |                 |                |
| Ahead Radial Direction:    |     | S44°38'38.823"E     |                 |                |
| Ahead Tangent Direction:   |     | N45°21'21.177"E     |                 |                |
| Element: Circular          |     |                     |                 |                |
| PCC                        | ( ) | 311+89.21 R1        | 270222.806      | 2296188.968    |
| HPI                        | ( ) | 313+10.93 R1        | 270308.335      | 2296275.566    |
| CC                         | ( ) |                     | 268906.558      | 2297488.965    |

|                            |                  |                     |            |             |
|----------------------------|------------------|---------------------|------------|-------------|
| PCC                        | ( )              | 314+32.29 R1        | 270381.781 | 2296372.624 |
|                            | Radius:          | 1850.000            |            |             |
|                            | Delta:           | 07°31'41.986" Right |            |             |
| Degree of Curvature (Arc): |                  | 03°05'49.449"       |            |             |
|                            | Length:          | 243.079             |            |             |
|                            | Tangent:         | 121.715             |            |             |
|                            | Chord:           | 242.904             |            |             |
|                            | Middle Ordinate: | 3.991               |            |             |
|                            | External:        | 4.000               |            |             |
| Back Tangent Direction:    |                  | N45°21'21.177"E     |            |             |
| Back Radial Direction:     |                  | S44°38'38.823"E     |            |             |
| Chord Direction:           |                  | N49°07'12.170"E     |            |             |
| Ahead Radial Direction:    |                  | S37°06'56.837"E     |            |             |
| Ahead Tangent Direction:   |                  | N52°53'03.163"E     |            |             |

## Element: Circular

|                            |                  |                     |            |             |
|----------------------------|------------------|---------------------|------------|-------------|
| PCC                        | ( )              | 314+32.29 R1        | 270381.781 | 2296372.624 |
| HPI                        | ( )              | 316+21.14 R1        | 270495.740 | 2296523.218 |
| CC                         | ( )              |                     | 269361.086 | 2297145.011 |
| PT                         | ( )              | 318+07.29 R1        | 270561.352 | 2296700.307 |
|                            | Radius:          | 1280.000            |            |             |
|                            | Delta:           | 16°47'09.142" Right |            |             |
| Degree of Curvature (Arc): |                  | 04°28'34.438"       |            |             |
|                            | Length:          | 375.000             |            |             |
|                            | Tangent:         | 188.853             |            |             |
|                            | Chord:           | 373.660             |            |             |
|                            | Middle Ordinate: | 13.708              |            |             |
|                            | External:        | 13.857              |            |             |
| Back Tangent Direction:    |                  | N52°53'03.163"E     |            |             |
| Back Radial Direction:     |                  | S37°06'56.837"E     |            |             |
| Chord Direction:           |                  | N61°16'37.734"E     |            |             |
| Ahead Radial Direction:    |                  | S20°19'47.695"E     |            |             |
| Ahead Tangent Direction:   |                  | N69°40'12.305"E     |            |             |

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 318+07.29 R1    | 270561.352 | 2296700.307 |
| PC                    | ( ) | 322+10.91 R1    | 270701.579 | 2297078.783 |
| Tangential Direction: |     | N69°40'12.305"E |            |             |
| Tangential Length:    |     | 403.618         |            |             |

## Element: Circular

|                            |         |                    |            |             |
|----------------------------|---------|--------------------|------------|-------------|
| PC                         | ( )     | 322+10.91 R1       | 270701.579 | 2297078.783 |
| HPI                        | ( )     | 327+10.75 R1       | 270875.236 | 2297547.485 |
| CC                         | ( )     |                    | 271789.320 | 2296675.769 |
| PT                         | ( )     | 331+54.81 R1       | 271335.176 | 2297743.174 |
|                            | Radius: | 1160.000           |            |             |
|                            | Delta:  | 46°37'19.185" Left |            |             |
| Degree of Curvature (Arc): |         | 04°56'21.449"      |            |             |

Length: 943.901  
 Tangent: 499.839  
 Chord: 918.075  
 Middle Ordinate: 94.690  
 External: 103.107  
 Back Tangent Direction: N69°40'12.305"E  
 Back Radial Direction: S20°19'47.695"E  
 Chord Direction: N46°21'32.713"E  
 Ahead Radial Direction: S66°57'06.880"E  
 Ahead Tangent Direction: N23°02'53.120"E

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 331+54.81 R1    | 271335.176 | 2297743.174 |
| PC                    | ( ) | 335+45.57 R1    | 271694.745 | 2297896.158 |
| Tangential Direction: |     | N23°02'53.120"E |            |             |
| Tangential Length:    |     | 390.761         |            |             |

## Element: Circular

|                            |     |                     |            |             |
|----------------------------|-----|---------------------|------------|-------------|
| PC                         | ( ) | 335+45.57 R1        | 271694.745 | 2297896.158 |
| HPI                        | ( ) | 336+20.62 R1        | 271763.800 | 2297925.539 |
| CC                         | ( ) |                     | 271009.614 | 2299506.467 |
| PCC                        | ( ) | 336+95.57 R1        | 271830.087 | 2297960.724 |
| Radius:                    |     | 1750.000            |            |             |
| Delta:                     |     | 04°54'39.841" Right |            |             |
| Degree of Curvature (Arc): |     | 03°16'26.560"       |            |             |
| Length:                    |     | 150.000             |            |             |
| Tangent:                   |     | 75.046              |            |             |
| Chord:                     |     | 149.954             |            |             |
| Middle Ordinate:           |     | 1.607               |            |             |
| External:                  |     | 1.608               |            |             |
| Back Tangent Direction:    |     | N23°02'53.120"E     |            |             |
| Back Radial Direction:     |     | S66°57'06.880"E     |            |             |
| Chord Direction:           |     | N25°30'13.041"E     |            |             |
| Ahead Radial Direction:    |     | S62°02'27.039"E     |            |             |
| Ahead Tangent Direction:   |     | N27°57'32.961"E     |            |             |

## Element: Circular

|                            |     |                     |            |             |
|----------------------------|-----|---------------------|------------|-------------|
| PCC                        | ( ) | 336+95.57 R1        | 271830.087 | 2297960.724 |
| HPI                        | ( ) | 344+79.09 R1        | 272522.156 | 2298328.071 |
| CC                         | ( ) |                     | 271295.607 | 2298967.665 |
| PT                         | ( ) | 350+68.47 R1        | 272427.205 | 2299105.817 |
| Radius:                    |     | 1140.000            |            |             |
| Delta:                     |     | 69°00'04.901" Right |            |             |
| Degree of Curvature (Arc): |     | 05°01'33.404"       |            |             |
| Length:                    |     | 1372.903            |            |             |
| Tangent:                   |     | 783.520             |            |             |
| Chord:                     |     | 1291.429            |            |             |
| Middle Ordinate:           |     | 200.504             |            |             |

External: 243.295  
 Back Tangent Direction: N27°57'32.961"E  
 Back Radial Direction: S62°02'27.039"E  
 Chord Direction: N62°27'35.411"E  
 Ahead Radial Direction: S06°57'37.861"W  
 Ahead Tangent Direction: S83°02'22.139"E

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 350+68.47 R1    | 272427.205 | 2299105.817 |
| PC                    | ( ) | 351+80.47 R1    | 272413.633 | 2299216.989 |
| Tangential Direction: |     | S83°02'22.139"E |            |             |
| Tangential Length:    |     | 111.998         |            |             |

## Element: Circular

|                            |     |                     |            |             |
|----------------------------|-----|---------------------|------------|-------------|
| PC                         | ( ) | 351+80.47 R1        | 272413.633 | 2299216.989 |
| HPI                        | ( ) | 353+81.14 R1        | 272389.315 | 2299416.179 |
| CC                         | ( ) |                     | 270428.373 | 2298974.618 |
| PCC                        | ( ) | 355+80.47 R1        | 272325.908 | 2299606.568 |
| Radius:                    |     | 2000.000            |            |             |
| Delta:                     |     | 11°27'32.961" Right |            |             |
| Degree of Curvature (Arc): |     | 02°51'53.240"       |            |             |
| Length:                    |     | 400.000             |            |             |
| Tangent:                   |     | 200.669             |            |             |
| Chord:                     |     | 399.334             |            |             |
| Middle Ordinate:           |     | 9.992               |            |             |
| External:                  |     | 10.042              |            |             |
| Back Tangent Direction:    |     | S83°02'22.139"E     |            |             |
| Back Radial Direction:     |     | S06°57'37.861"W     |            |             |
| Chord Direction:           |     | S77°18'35.658"E     |            |             |
| Ahead Radial Direction:    |     | S18°25'10.823"W     |            |             |
| Ahead Tangent Direction:   |     | S71°34'49.177"E     |            |             |

## Element: Circular

|                            |     |                     |            |             |
|----------------------------|-----|---------------------|------------|-------------|
| PCC                        | ( ) | 355+80.47 R1        | 272325.908 | 2299606.568 |
| HPI                        | ( ) | 359+11.78 R1        | 272221.221 | 2299920.907 |
| CC                         | ( ) |                     | 271282.264 | 2299258.996 |
| PT                         | ( ) | 362+24.08 R1        | 271960.344 | 2300125.141 |
| Radius:                    |     | 1100.000            |            |             |
| Delta:                     |     | 33°31'26.274" Right |            |             |
| Degree of Curvature (Arc): |     | 05°12'31.346"       |            |             |
| Length:                    |     | 643.614             |            |             |
| Tangent:                   |     | 331.313             |            |             |
| Chord:                     |     | 634.472             |            |             |
| Middle Ordinate:           |     | 46.738              |            |             |
| External:                  |     | 48.812              |            |             |
| Back Tangent Direction:    |     | S71°34'49.177"E     |            |             |
| Back Radial Direction:     |     | S18°25'10.823"W     |            |             |
| Chord Direction:           |     | S54°49'06.040"E     |            |             |

Ahead Radial Direction: S51°56'37.097"W  
 Ahead Tangent Direction: S38°03'22.903"E

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 362+24.08 R1    | 271960.344 | 2300125.141 |
| PC                    | ( ) | 375+22.20 R1    | 270938.203 | 2300925.346 |
| Tangential Direction: |     | S38°03'22.903"E |            |             |
| Tangential Length:    |     | 1298.114        |            |             |

## Element: Circular

|                            |     |                    |            |             |
|----------------------------|-----|--------------------|------------|-------------|
| PC                         | ( ) | 375+22.20 R1       | 270938.203 | 2300925.346 |
| HPI                        | ( ) | 385+14.84 R1       | 270156.590 | 2301537.247 |
| CC                         | ( ) |                    | 271644.022 | 2301826.924 |
| PT                         | ( ) | 391+57.82 R1       | 270651.454 | 2302397.742 |
| Radius:                    |     | 1145.000           |            |             |
| Delta:                     |     | 81°50'47.405" Left |            |             |
| Degree of Curvature (Arc): |     | 05°00'14.394"      |            |             |
| Length:                    |     | 1635.622           |            |             |
| Tangent:                   |     | 992.644            |            |             |
| Chord:                     |     | 1500.059           |            |             |
| Middle Ordinate:           |     | 279.852            |            |             |
| External:                  |     | 370.377            |            |             |
| Back Tangent Direction:    |     | S38°03'22.903"E    |            |             |
| Back Radial Direction:     |     | S51°56'37.097"W    |            |             |
| Chord Direction:           |     | S78°58'46.606"E    |            |             |
| Ahead Radial Direction:    |     | S29°54'10.309"E    |            |             |
| Ahead Tangent Direction:   |     | N60°05'49.691"E    |            |             |

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 391+57.82 R1    | 270651.454 | 2302397.742 |
| PC                    | ( ) | 398+37.93 R1    | 270990.508 | 2302987.307 |
| Tangential Direction: |     | N60°05'49.691"E |            |             |
| Tangential Length:    |     | 680.106         |            |             |

## Element: Circular

|                            |     |                    |            |             |
|----------------------------|-----|--------------------|------------|-------------|
| PC                         | ( ) | 398+37.93 R1       | 270990.508 | 2302987.307 |
| HPI                        | ( ) | 400+18.78 R1       | 271080.667 | 2303144.081 |
| CC                         | ( ) |                    | 272022.085 | 2302394.055 |
| PT                         | ( ) | 401+96.88 R1       | 271213.332 | 2303266.991 |
| Radius:                    |     | 1190.000           |            |             |
| Delta:                     |     | 17°16'58.206" Left |            |             |
| Degree of Curvature (Arc): |     | 04°48'53.177"      |            |             |
| Length:                    |     | 358.954            |            |             |
| Tangent:                   |     | 180.851            |            |             |
| Chord:                     |     | 357.595            |            |             |
| Middle Ordinate:           |     | 13.509             |            |             |
| External:                  |     | 13.664             |            |             |
| Back Tangent Direction:    |     | N60°05'49.691"E    |            |             |

Back Radial Direction: S29°54'10.309"E  
 Chord Direction: N51°27'20.588"E  
 Ahead Radial Direction: S47°11'08.515"E  
 Ahead Tangent Direction: N42°48'51.485"E

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 401+96.88 R1    | 271213.332 | 2303266.991 |
| PC                    | ( ) | 421+98.76 R1    | 272681.829 | 2304627.515 |
| Tangential Direction: |     | N42°48'51.485"E |            |             |
| Tangential Length:    |     | 2001.876        |            |             |

## Element: Circular

|                            |     |                     |            |             |
|----------------------------|-----|---------------------|------------|-------------|
| PC                         | ( ) | 421+98.76 R1        | 272681.829 | 2304627.515 |
| HPI                        | ( ) | 430+06.67 R1        | 273274.480 | 2305176.591 |
| CC                         | ( ) |                     | 271812.929 | 2305565.372 |
| PT                         | ( ) | 436+39.78 R1        | 273032.968 | 2305947.558 |
| Radius:                    |     | 1278.500            |            |             |
| Delta:                     |     | 64°34'45.265" Right |            |             |
| Degree of Curvature (Arc): |     | 04°28'53.344"       |            |             |
| Length:                    |     | 1441.023            |            |             |
| Tangent:                   |     | 807.910             |            |             |
| Chord:                     |     | 1365.947            |            |             |
| Middle Ordinate:           |     | 197.709             |            |             |
| External:                  |     | 233.876             |            |             |
| Back Tangent Direction:    |     | N42°48'51.485"E     |            |             |
| Back Radial Direction:     |     | S47°11'08.515"E     |            |             |
| Chord Direction:           |     | N75°06'14.118"E     |            |             |
| Ahead Radial Direction:    |     | S17°23'36.750"W     |            |             |
| Ahead Tangent Direction:   |     | S72°36'23.250"E     |            |             |

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 436+39.78 R1    | 273032.968 | 2305947.558 |
| PC                    | ( ) | 443+36.06 R1    | 272824.828 | 2306611.997 |
| Tangential Direction: |     | S72°36'23.250"E |            |             |
| Tangential Length:    |     | 696.276         |            |             |

## Element: Circular

|                            |     |                     |            |             |
|----------------------------|-----|---------------------|------------|-------------|
| PC                         | ( ) | 443+36.06 R1        | 272824.828 | 2306611.997 |
| HPI                        | ( ) | 445+66.94 R1        | 272755.810 | 2306832.322 |
| CC                         | ( ) |                     | 269837.951 | 2305676.336 |
| PT                         | ( ) | 447+96.99 R1        | 272655.210 | 2307040.135 |
| Radius:                    |     | 3130.000            |            |             |
| Delta:                     |     | 08°26'14.951" Right |            |             |
| Degree of Curvature (Arc): |     | 01°49'49.930"       |            |             |
| Length:                    |     | 460.930             |            |             |
| Tangent:                   |     | 230.882             |            |             |
| Chord:                     |     | 460.513             |            |             |
| Middle Ordinate:           |     | 8.481               |            |             |

External: 8.504  
 Back Tangent Direction: S72°36'23.250"E  
 Back Radial Direction: S17°23'36.750"W  
 Chord Direction: S68°23'15.774"E  
 Ahead Radial Direction: S25°49'51.702"W  
 Ahead Tangent Direction: S64°10'08.298"E

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 447+96.99 R1    | 272655.210 | 2307040.135 |
| PC                    | ( ) | 456+71.16 R1    | 272274.316 | 2307826.965 |
| Tangential Direction: |     | S64°10'08.298"E |            |             |
| Tangential Length:    |     | 874.175         |            |             |

## Element: Circular

|                            |     |                     |            |             |
|----------------------------|-----|---------------------|------------|-------------|
| PC                         | ( ) | 456+71.16 R1        | 272274.316 | 2307826.965 |
| HPI                        | ( ) | 460+60.83 R1        | 272104.530 | 2308177.699 |
| CC                         | ( ) |                     | 271227.519 | 2307320.224 |
| PT                         | ( ) | 464+23.16 R1        | 271757.709 | 2308355.342 |
| Radius:                    |     | 1163.000            |            |             |
| Delta:                     |     | 37°02'50.453" Right |            |             |
| Degree of Curvature (Arc): |     | 04°55'35.581"       |            |             |
| Length:                    |     | 751.994             |            |             |
| Tangent:                   |     | 389.669             |            |             |
| Chord:                     |     | 738.962             |            |             |
| Middle Ordinate:           |     | 60.252              |            |             |
| External:                  |     | 63.544              |            |             |
| Back Tangent Direction:    |     | S64°10'08.298"E     |            |             |
| Back Radial Direction:     |     | S25°49'51.702"W     |            |             |
| Chord Direction:           |     | S45°38'43.072"E     |            |             |
| Ahead Radial Direction:    |     | S62°52'42.154"W     |            |             |
| Ahead Tangent Direction:   |     | S27°07'17.846"E     |            |             |

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 464+23.16 R1    | 271757.709 | 2308355.342 |
| PC                    | ( ) | 477+47.09 R1    | 270579.357 | 2308958.896 |
| Tangential Direction: |     | S27°07'17.846"E |            |             |
| Tangential Length:    |     | 1323.930        |            |             |

## Element: Circular

|                            |     |                    |            |             |
|----------------------------|-----|--------------------|------------|-------------|
| PC                         | ( ) | 477+47.09 R1       | 270579.357 | 2308958.896 |
| HPI                        | ( ) | 480+73.83 R1       | 270288.540 | 2309107.853 |
| CC                         | ( ) |                    | 271135.532 | 2310044.746 |
| PT                         | ( ) | 483+85.59 R1       | 270111.099 | 2309382.222 |
| Radius:                    |     | 1220.000           |            |             |
| Delta:                     |     | 29°59'12.231" Left |            |             |
| Degree of Curvature (Arc): |     | 04°41'46.951"      |            |             |
| Length:                    |     | 638.508            |            |             |
| Tangent:                   |     | 326.747            |            |             |

Chord: 631.246  
 Middle Ordinate: 41.534  
 External: 42.998  
 Back Tangent Direction: S27°07'17.846"E  
 Back Radial Direction: S62°52'42.154"W  
 Chord Direction: S42°06'53.961"E  
 Ahead Radial Direction: S32°53'29.923"W  
 Ahead Tangent Direction: S57°06'30.077"E

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 483+85.59 R1    | 270110.372 | 2309383.347 |
| PC                    | ( ) | 512+66.27 R1    | 268546.015 | 2311802.248 |
| Tangential Direction: |     | S57°06'30.077"E |            |             |
| Tangential Length:    |     | 2880.677        |            |             |

## Element: Circular

|                            |     |                     |            |             |
|----------------------------|-----|---------------------|------------|-------------|
| PC                         | ( ) | 512+66.27 R1        | 268546.015 | 2311802.248 |
| HPI                        | ( ) | 516+37.23 R1        | 268344.564 | 2312113.743 |
| CC                         | ( ) |                     | 266992.572 | 2310797.602 |
| PT                         | ( ) | 519+98.48 R1        | 268038.594 | 2312323.491 |
| Radius:                    |     | 1850.000            |            |             |
| Delta:                     |     | 22°40'37.475" Right |            |             |
| Degree of Curvature (Arc): |     | 03°05'49.449"       |            |             |
| Length:                    |     | 732.211             |            |             |
| Tangent:                   |     | 370.961             |            |             |
| Chord:                     |     | 727.441             |            |             |
| Middle Ordinate:           |     | 36.107              |            |             |
| External:                  |     | 36.826              |            |             |
| Back Tangent Direction:    |     | S57°06'30.077"E     |            |             |
| Back Radial Direction:     |     | S32°53'29.923"W     |            |             |
| Chord Direction:           |     | S45°46'11.339"E     |            |             |
| Ahead Radial Direction:    |     | S55°34'07.399"W     |            |             |
| Ahead Tangent Direction:   |     | S34°25'52.601"E     |            |             |

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| PT                    | ( ) | 519+98.48 R1    | 268038.594 | 2312323.491 |
| HPI                   | ( ) | 521+95.79 R1    | 267875.853 | 2312435.053 |
| Tangential Direction: |     | S34°25'52.601"E |            |             |
| Tangential Length:    |     | 197.308         |            |             |

## Element: Linear

|                       |     |                 |            |             |
|-----------------------|-----|-----------------|------------|-------------|
| HPI                   | ( ) | 521+95.79 R1    | 267875.853 | 2312435.053 |
| PC                    | ( ) | 535+26.43 R1    | 266778.330 | 2313187.422 |
| Tangential Direction: |     | S34°25'52.601"E |            |             |
| Tangential Length:    |     | 1330.645        |            |             |

## Element: Circular

|     |     |              |            |             |
|-----|-----|--------------|------------|-------------|
| PC  | ( ) | 535+26.43 R1 | 266778.330 | 2313187.422 |
| HPI | ( ) | 537+15.66 R1 | 266622.259 | 2313294.412 |



|                            |                          |                     |            |             |
|----------------------------|--------------------------|---------------------|------------|-------------|
| CC                         | ( )                      |                     | 265600.293 | 2311468.955 |
| PT                         | ( )                      | 539+24.96 R1        | 266449.467 | 2313371.534 |
|                            | Radius:                  | 2083.483            |            |             |
|                            | Delta:                   | 10°22'43.489" Right |            |             |
| Degree of Curvature (Arc): |                          | 02°45'00.000"       |            |             |
|                            | Length:                  | 377.409             |            |             |
|                            | Tangent:                 | 189.222             |            |             |
|                            | Chord:                   | 376.893             |            |             |
|                            | Middle Ordinate:         | 8.540               |            |             |
|                            | External:                | 8.575               |            |             |
|                            | Back Tangent Direction:  | S34°25'52.601"E     |            |             |
|                            | Back Radial Direction:   | S55°34'07.399"W     |            |             |
|                            | Chord Direction:         | S29°14'30.857"E     |            |             |
|                            | Ahead Radial Direction:  | S65°56'50.888"W     |            |             |
|                            | Ahead Tangent Direction: | S24°03'09.112"E     |            |             |
| Element: Linear            |                          |                     |            |             |
| PT                         | ( )                      | 539+03.84 R1        | 266468.750 | 2313362.927 |
| PC                         | ( )                      | 540+69.64 R1        | 266317.351 | 2313430.501 |
|                            | Tangential Direction:    | S24°03'09.112"E     |            |             |
|                            | Tangential Length:       | 165.795             |            |             |
| Element: Circular          |                          |                     |            |             |
| PC                         | ( )                      | 540+69.64 R1        | 266307.813 | 2313434.758 |
| HPI                        | ( )                      | 544+24.73 R1        | 265983.553 | 2313579.484 |
| CC                         | ( )                      |                     | 265179.140 | 2310905.959 |
| PT                         | ( )                      | 547+75.97 R1        | 265633.268 | 2313637.715 |
|                            | Radius:                  | 2769.247            |            |             |
|                            | Delta:                   | 14°36'50.329" Right |            |             |
| Degree of Curvature (Arc): |                          | 02°04'08.409"       |            |             |
|                            | Length:                  | 706.330             |            |             |
|                            | Tangent:                 | 355.092             |            |             |
|                            | Chord:                   | 704.417             |            |             |
|                            | Middle Ordinate:         | 22.489              |            |             |
|                            | External:                | 22.673              |            |             |
|                            | Back Tangent Direction:  | S24°03'09.112"E     |            |             |
|                            | Back Radial Direction:   | S65°56'50.888"W     |            |             |
|                            | Chord Direction:         | S16°44'43.948"E     |            |             |
|                            | Ahead Radial Direction:  | S80°33'41.217"W     |            |             |
|                            | Ahead Tangent Direction: | S09°26'18.783"E     |            |             |