Horizontal Alignment Review Report

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Project: Design
Description:
File Name: c:\users\jmille21\appdata\local\bentley\projectwise\workingdir\ohiodot-pw.bentley.com_ohiodot-pw-02\jeffery.miller@dot.ohio.gov\d1380741\92116_FB001.dgn
Last Revised: 12/11/2025 14:32:25

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

Alignment Name: BLX_S002_92116-WIL-2-7.00
Alignment Description:
Alignment Style: Alignment\RW_X_Centerline

		Station	Northing	Easting
Element: Linear				
POT	(POT)	355+21.30 R1	318851.921	167751.644
PC	(PC)	357+63.01 R1	318853.098	167993.352
Tangential Direction:		N89°43'15.08"E		
Tangential Length:		241.71		
Element: Circular				
PC	(PC)	357+63.01 R1	318853.098	167993.352
HPI	(HPI)	365+04.78 R1	318856.712	168735.112
CC	(CC)		321717.834	167979.394
PT	(PT)	372+14.67 R1	319219.862	169381.907
Radius:		2864.77		
Delta:		29°02'00.00" Left		
Degree of Curvature (Arc):		02°00'00.05"		
Length:		1451.66		
Tangent:		741.77		
Chord:		1436.18		
Middle Ordinate:		91.46		
External:		94.47		
Back Tangent Direction:		N89°43'15.08"E		
Back Radial Direction:		S00°16'44.92"E		
Chord Direction:		N75°12'15.08"E		
Ahead Radial Direction:		S29°18'44.92"E		
Ahead Tangent Direction:		N60°41'15.08"E		
Element: Linear				
PT	(PT)	372+14.67 R1	319219.862	169381.907
PC	(PC)	384+93.93 R1	319846.154	170497.376
Tangential Direction:		N60°41'15.08"E		
Tangential Length:		1279.26		
Element: Circular				
PC	(PC)	384+93.93 R1	319846.154	170497.376

HPI	(HPI)	390+41.04 R1	320114.003	170974.434
CC	(CC)		318029.437	171517.390
PT	(PT)	395+63.99 R1	320112.913	171521.541
	Radius:	2083.48		
	Delta:	29°25'35.85" Right		
	Degree of Curvature (Arc):	02°45'00.01"		
	Length:	1070.06		
	Tangent:	547.11		
	Chord:	1058.34		
	Middle Ordinate:	68.32		
	External:	70.64		
	Back Tangent Direction:	N60°41'15.08"E		
	Back Radial Direction:	S29°18'44.92"E		
	Chord Direction:	N75°24'03.00"E		
	Ahead Radial Direction:	S00°06'50.92"W		
	Ahead Tangent Direction:	S89°53'09.08"E		

Element: Linear

PT	(PT)	395+63.99 R1	320112.913	171521.541
HPI	(HPI)	400+22.40 R1	320111.999	171979.950
	Tangential Direction:	S89°53'09.08"E		
	Tangential Length:	458.41		

Element: Linear

HPI	(HPI)	400+22.40 R1	320111.999	171979.950
REF31 HPI	(HPI)	414+28.21 R1	320109.117	173385.757
	Tangential Direction:	S89°52'57.08"E		
	Tangential Length:	1405.81		

Element: Linear

REF31 HPI	(REF31)	414+28.21 R1	320109.117	173385.757
REF39 HPI	(REF39)	440+55.19 R1	320116.111	176012.727
	Tangential Direction:	N89°50'50.85"E		
	Tangential Length:	2626.98		

Element: Linear

REF39 HPI	(HPI)	440+55.19 R1	320116.111	176012.727
PC	(PC)	458+29.52 R1	320123.868	177787.037
	Tangential Direction:	N89°44'58.20"E		
	Tangential Length:	1774.33		

Element: Circular

PC	(PC)	458+29.52 R1	320123.868	177787.037
REF40 HPI	(HPI)	467+26.70 R1	320127.791	178684.217
CC	(CC)		325853.394	177761.987
PT	(PT)	476+09.44 R1	320405.778	179537.253
	Radius:	5729.58		
	Delta:	17°47'57.20" Left		
	Degree of Curvature (Arc):	01°00'00.00"		
	Length:	1779.92		
	Tangent:	897.19		
	Chord:	1772.77		

Middle Ordinate:		68.98		
External:		69.82		
Back Tangent Direction:		N89°44'58.20"E		
Back Radial Direction:		S00°15'01.80"E		
Chord Direction:		N80°50'59.60"E		
Ahead Radial Direction:		S18°02'59.00"E		
Ahead Tangent Direction:		N71°57'01.00"E		

Element: Linear

PT	(PT)	476+09.44 R1	320405.778	179537.253
PC	(PC)	491+72.66 R1	320890.130	181023.545
Tangential Direction:		N71°57'01.00"E		
Tangential Length:		1563.22		

Element: Circular

PC	(PC)	491+72.66 R1	320890.130	181023.545
REF42 HPI	(HPI)	493+57.06 R1	320947.264	181198.868
CC	(CC)		319630.336	181434.086
PT	(PT)	495+39.10 R1	320954.356	181383.129
Radius:		1325.00		
Delta:		15°50'44.39" Right		
Degree of Curvature (Arc):		04°19'27.16"		
Length:		366.44		
Tangent:		184.40		
Chord:		365.27		
Middle Ordinate:		12.65		
External:		12.77		
Back Tangent Direction:		N71°57'01.00"E		
Back Radial Direction:		S18°02'59.00"E		
Chord Direction:		N79°52'23.19"E		
Ahead Radial Direction:		S02°12'14.61"E		
Ahead Tangent Direction:		N87°47'45.39"E		

Element: Linear

PT	(PT)	495+39.10 R1	320954.356	181383.129
PC	(PC)	520+03.75 R1	321049.143	183845.955
Tangential Direction:		N87°47'45.39"E		
Tangential Length:		2464.65		

Element: Circular

PC	(PC)	520+03.75 R1	321049.143	183845.955
REF44 HPI	(HPI)	522+00.70 R1	321056.717	184042.759
CC	(CC)		320424.605	183869.991
PT	(PT)	523+85.34 R1	320950.093	184208.351
Radius:		625.00		
Delta:		34°58'52.85" Right		
Degree of Curvature (Arc):		09°10'02.37"		
Length:		381.59		
Tangent:		196.95		
Chord:		375.69		
Middle Ordinate:		28.90		
External:		30.30		

Back Tangent Direction:		N87°47'45.39"E		
Back Radial Direction:		S02°12'14.61"E		
Chord Direction:		S74°42'48.18"E		
Ahead Radial Direction:		S32°46'38.24"W		
Ahead Tangent Direction:		S57°13'21.76"E		

Element: Linear

PT	(PT)	523+85.34 R1	320950.093	184208.351
PC	(PC)	537+67.44 R1	320201.860	185370.394
Tangential Direction:		S57°13'21.76"E		
Tangential Length:		1382.10		

Element: Circular

PC	(PC)	537+67.44 R1	320201.860	185370.394
REF45 HPI	(HPI)	539+41.35 R1	320107.705	185516.620
CC	(CC)		320706.328	185695.219
PT	(PT)	541+05.99 R1	320106.347	185690.532
Radius:		600.00		
Delta:		32°19'47.14" Left		
Degree of Curvature (Arc):		09°32'57.47"		
Length:		338.56		
Tangent:		173.92		
Chord:		334.08		
Middle Ordinate:		23.72		
External:		24.70		
Back Tangent Direction:		S57°13'21.76"E		
Back Radial Direction:		S32°46'38.24"W		
Chord Direction:		S73°23'15.32"E		
Ahead Radial Direction:		S00°26'51.11"W		
Ahead Tangent Direction:		S89°33'08.89"E		

Element: Linear

PT	(PT)	541+05.99 R1	320106.347	185690.532
REF47 HPI	(HPI)	573+80.00 R1	320080.774	188964.437
Tangential Direction:		S89°33'08.89"E		
Tangential Length:		3274.00		

Element: Linear

REF47 HPI	(REF47)	573+80.00 R1	320080.774	188964.437
REF47AB HPI	(REF47AB)	604+00.37 R1	320094.199	191984.774
Tangential Direction:		N89°44'43.19"E		
Tangential Length:		3020.37		

Element: Linear

REF47AB HPI	(HPI)	604+00.37 R1	320094.199	191984.774
PC	(PC)	616+08.26 R1	320103.327	193192.630
Tangential Direction:		N89°34'01.17"E		
Tangential Length:		1207.89		

Element: Circular

PC	(PC)	616+08.26 R1	320103.327	193192.630
HPI	(HPI)	619+35.93 R1	320105.804	193520.291

CC	(CC)		322013.133	193178.197
PT	(PT)	622+57.28 R1	320217.356	193828.389
Radius:		1909.86		
Delta:		19°28'14.37" Left		
Degree of Curvature (Arc):		03°00'00.00"		
Length:		649.02		
Tangent:		327.67		
Chord:		645.90		
Middle Ordinate:		27.50		
External:		27.90		
Back Tangent Direction:		N89°34'01.17"E		
Back Radial Direction:		S00°25'58.83"E		
Chord Direction:		N79°49'53.98"E		
Ahead Radial Direction:		S19°54'13.20"E		
Ahead Tangent Direction:		N70°05'46.80"E		

Element: Linear

PT	(PT)	622+57.28 R1	320217.356	193828.389
PC	(PC)	628+67.41 R1	320425.068	194402.072
Tangential Direction:		N70°05'46.80"E		
Tangential Length:		610.13		

Element: Circular

PC	(PC)	628+67.41 R1	320425.068	194402.072
REF48 HPI	(HPI)	634+82.72 R1	320634.544	194980.628
CC	(CC)		318629.291	195052.264
PT	(PT)	640+57.92 R1	320466.886	195572.657
Radius:		1909.86		
Delta:		35°42'55.32" Right		
Degree of Curvature (Arc):		03°00'00.00"		
Length:		1190.51		
Tangent:		615.31		
Chord:		1171.33		
Middle Ordinate:		92.01		
External:		96.67		
Back Tangent Direction:		N70°05'46.80"E		
Back Radial Direction:		S19°54'13.20"E		
Chord Direction:		N87°57'14.46"E		
Ahead Radial Direction:		S15°48'42.12"W		
Ahead Tangent Direction:		S74°11'17.88"E		

Element: Linear

PT	(PT)	640+57.92 R1	320466.886	195572.657
PC	(PC)	651+42.56 R1	320171.348	196616.253
Tangential Direction:		S74°11'17.88"E		
Tangential Length:		1084.64		

Element: Circular

PC	(PC)	651+42.56 R1	320171.348	196616.253
HPI	(HPI)	653+95.97 R1	320102.298	196860.081
CC	(CC)		322008.944	197136.645
PT	(PT)	656+46.45 R1	320099.224	197113.480

Radius:		1909.86		
Delta:		15°07'00.19" Left		
Degree of Curvature (Arc):		03°00'00.00"		
Length:		503.89		
Tangent:		253.42		
Chord:		502.43		
Middle Ordinate:		16.59		
External:		16.74		
Back Tangent Direction:		S74°11'17.88"E		
Back Radial Direction:		S15°48'42.12"W		
Chord Direction:		S81°44'47.98"E		
Ahead Radial Direction:		S00°41'41.93"W		
Ahead Tangent Direction:		S89°18'18.07"E		

Element: Linear

PT	(PT)	656+46.45 R1	320099.224	197113.480
REF49 HPI	(HPI)	658+29.48 R1	320097.004	197296.499
Tangential Direction:		S89°18'18.07"E		
Tangential Length:		183.03		

Element: Linear

HPI	(HPI)	658+29.48 R1	320097.004	197296.499
PC	(PC)	669+78.30 R1	320093.123	198445.315
Tangential Direction:		S89°48'23.25"E		
Tangential Length:		1148.82		

Element: Circular

PC	(PC)	669+78.30 R1	320093.123	198445.315
HPI	(HPI)	673+57.31 R1	320091.843	198824.326
CC	(CC)		316273.435	198432.412
PT	(PT)	677+33.86 R1	320016.106	199195.695
Radius:		3819.71		
Delta:		11°20'00.00" Right		
Degree of Curvature (Arc):		01°30'00.01"		
Length:		755.55		
Tangent:		379.01		
Chord:		754.32		
Middle Ordinate:		18.67		
External:		18.76		
Back Tangent Direction:		S89°48'23.25"E		
Back Radial Direction:		S00°11'36.75"W		
Chord Direction:		S84°08'23.25"E		
Ahead Radial Direction:		S11°31'36.75"W		
Ahead Tangent Direction:		S78°28'23.25"E		

Element: Linear

PT	(PT)	677+33.86 R1	320016.106	199195.695
PC	(PC)	682+57.62 R1	319911.442	199708.901
Tangential Direction:		S78°28'23.25"E		
Tangential Length:		523.77		

Element: Circular

	PC	(PC)	682+57.62 R1	319911.442	199708.901
REF49A	HPI	(HPI)	684+82.66 R1	319866.474	199929.397
	CC	(CC)		331139.483	201998.757
	PT	(PT)	687+07.64 R1	319830.197	200151.489
		Radius:	11459.16		
		Delta:	02°15'00.22" Left		
		Degree of Curvature (Arc):	00°30'00.00"		
		Length:	450.01		
		Tangent:	225.03		
		Chord:	449.98		
		Middle Ordinate:	2.21		
		External:	2.21		
		Back Tangent Direction:	S78°28'23.25"E		
		Back Radial Direction:	S11°31'36.75"W		
		Chord Direction:	S79°35'53.36"E		
		Ahead Radial Direction:	S09°16'36.53"W		
		Ahead Tangent Direction:	S80°43'23.47"E		

Element: Linear

	PT	(PT)	687+07.64 R1	319830.197	200151.489
REF50	POT	(POT)	699+76.95 R1	319625.578	201404.203
		Tangential Direction:	S80°43'23.47"E		
		Tangential Length:	1269.32		