Horizontal Alignment Review Report

Report Created: Friday, May 8, 2026
Time: 8:55:27 AM

Project: Design
Description:

HORIZONTAL GEOMETRY
HEN-281-5.72 PID 101233

File Name: c:\users\tniese\appdata\local\bentley\projectwise\workingdir\ohiodot-pw.bentley.com_ohiodot-pw-02\trevor.niese@dot.ohio.gov\d1522353\101233_BK001.dgn

Last Revised: 5/8/2026 08:52:55

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

Alignment Name: BLX_S281_5.40
Alignment Description:
Alignment Style: Alignment\GE_X_Alignment

			Station	Northing	Easting
Element: Linear					
REF12	POT	(POT)	284+88.37 R1	449120.029	157513.370
REF13	HPI	(HPI)	311+43.22 R1	449162.495	160167.883
	Tangential Direction:		N89°05'00.51"E		
	Tangential Length:		2654.85		
Element: Linear					
REF13	HPI	(HPI)	311+43.22 R1	449162.495	160167.883
REF13A	HPI	(HPI)	311+50.00 R1	449155.719	160167.680
	Tangential Direction:		S01°42'45.14"W		
	Tangential Length:		6.78		
Element: Linear					
REF13A	HPI	(HPI)	311+50.00 R1	449155.719	160167.680
REF14	HPI	(HPI)	338+05.04 R1	449165.439	162822.698
	Tangential Direction:		N89°47'24.89"E		
	Tangential Length:		2655.04		
Element: Linear					
REF14	HPI	(HPI)	338+05.04 R1	449165.439	162822.698
REF15	HPI	(HPI)	364+54.94 R1	449175.587	165472.579
	Tangential Direction:		N89°46'50.10"E		
	Tangential Length:		2649.90		
Element: Linear					
REF15	HPI	(HPI)	364+54.94 R1	449175.587	165472.579
REF16	HPI	(HPI)	390+83.34 R1	449210.778	168100.751
	Tangential Direction:		N89°13'58.24"E		
	Tangential Length:		2628.41		
Element: Linear					
REF15	HPI	(HPI)	390+83.34 R1	449210.778	168100.751
REF17	HPI	(HPI)	417+41.24 R1	449206.017	170758.647
	Tangential Direction:		S89°53'50.50"E		

		Tangential Length:	2657.90		
Element: Linear					
REF17	HPI	(HPI)	417+41.24 R1	449206.017	170758.647
REF18	HPI	(HPI)	443+87.58 R1	449219.386	173404.951
		Tangential Direction:	N89°42'37.99"E		
		Tangential Length:	2646.34		
Element: Linear					
REF18	HPI	(HPI)	443+87.58 R1	449219.386	173404.951
REF19	HPI	(HPI)	470+44.88 R1	449225.917	176062.241
		Tangential Direction:	N89°51'33.06"E		
		Tangential Length:	2657.30		
Element: Linear					
REF19	HPI	(HPI)	470+44.88 R1	449225.917	176062.241
REF20	HPI	(HPI)	496+93.25 R1	449251.316	178710.493
		Tangential Direction:	N89°27'01.76"E		
		Tangential Length:	2648.37		
Element: Linear					
REF20	HPI	(HPI)	496+93.25 R1	449251.316	178710.493
REF22	HPI	(HPI)	523+41.79 R1	449276.226	181358.916
		Tangential Direction:	N89°27'40.04"E		
		Tangential Length:	2648.54		
Element: Linear					
REF22	HPI	(HPI)	523+41.79 R1	449276.226	181358.916
REF22A	HPI	(HPI)	549+88.03 R1	449322.326	184004.747
		Tangential Direction:	N89°00'06.48"E		
		Tangential Length:	2646.23		
Element: Linear					
REF22A	HPI	(HPI)	549+88.03 R1	449322.326	184004.747
CALC PT	HPI	(HPI)	563+10.56 R1	449336.945	185327.199
		Tangential Direction:	N89°22'00.00"E		
		Tangential Length:	1322.53		
Element: Linear					
CALC PT	HPI	(HPI)	563+10.56 R1	449336.945	185327.199
REF22AB	HPI	(HPI)	576+33.09 R1	449350.766	186649.659
		Tangential Direction:	N89°24'04.32"E		
		Tangential Length:	1322.53		
Element: Linear					
REF22AB	HPI	(HPI)	576+33.09 R1	449350.766	186649.659
	PC	(PC)	621+91.48 R1	449408.887	191207.678
		Tangential Direction:	N89°16'09.99"E		
		Tangential Length:	4558.39		
Element: Circular					
	PC	(PC)	621+91.48 R1	449408.887	191207.678
CALC PT	HPI	(HPI)	623+08.77 R1	449410.383	191324.962

	CC	(CC)		447499.182	191232.030
	PT	(PT)	624+25.77 R1	449397.515	191441.548
		Radius:	1909.86		
		Delta:	07°01'43.6" Right		
		Degree of Curvature (Arc):	03°00'00.0"		
		Length:	234.29		
		Tangent:	117.29		
		Chord:	234.15		
		Middle Ordinate:	3.59		
		External:	3.60		
		Back Tangent Direction:	N89°16'09.99"E		
		Back Radial Direction:	S00°43'50.01"E		
		Chord Direction:	S87°12'58.21"E		
		Ahead Radial Direction:	S06°17'53.60"W		
		Ahead Tangent Direction:	S83°42'06.40"E		

Element: Linear

	PT	(Scratch19)	624+25.77 R1	449397.515	191441.548
	PC	(Scratch18)	626+48.80 R1	449373.048	191663.226
		Tangential Direction:	S83°42'06.40"E		
		Tangential Length:	223.02		

Element: Circular

	PC	(PC)	626+48.80 R1	449373.048	191663.226
CALC PT	HPI	(HPI)	627+61.99 R1	449360.631	191775.731
	CC	(CC)		451271.381	191872.745
	PT	(PT)	628+74.91 R1	449361.590	191888.914
		Radius:	1909.86		
		Delta:	06°46'59.9" Left		
		Degree of Curvature (Arc):	03°00'00.0"		
		Length:	226.11		
		Tangent:	113.19		
		Chord:	225.98		
		Middle Ordinate:	3.35		
		External:	3.35		
		Back Tangent Direction:	S83°42'06.41"E		
		Back Radial Direction:	S06°17'53.59"W		
		Chord Direction:	S87°05'36.34"E		
		Ahead Radial Direction:	S00°29'06.28"E		
		Ahead Tangent Direction:	N89°30'53.72"E		

Element: Linear

	PT	(PT)	628+74.91 R1	449361.590	191888.914
REF26	HPI	(HPI)	654+95.48 R1	449383.776	194509.392
		Tangential Direction:	N89°30'53.72"E		
		Tangential Length:	2620.57		

Element: Linear

REF26	HPI	(HPI)	654+95.48 R1	449383.776	194509.392
REF27	HPI	(HPI)	681+37.11 R1	449402.366	197150.951
		Tangential Direction:	N89°35'48.40"E		
		Tangential Length:	2641.62		

Element: Linear

REF27	HPI	(HPI)	681+37.11 R1	449402.366	197150.951
REF28	HPI	(HPI)	708+06.06 R1	449441.385	199819.622
	Tangential Direction:		N89°09'44.43"E		
	Tangential Length:		2668.96		

Element: Linear

REF28	HPI	(HPI)	708+06.06 R1	449441.385	199819.622
REF29	HPI	(HPI)	734+74.51 R1	449469.875	202487.914
	Tangential Direction:		N89°23'17.73"E		
	Tangential Length:		2668.44		

Element: Linear

REF29	HPI	(HPI)	734+74.51 R1	449469.875	202487.914
REF30	HPI	(HPI)	761+34.05 R1	449516.207	205147.055
	Tangential Direction:		N89°00'06.47"E		
	Tangential Length:		2659.55		

Element: Linear

REF30	HPI	(HPI)	761+34.05 R1	449516.207	205147.055
REF31	HPI	(HPI)	787+96.17 R1	449565.332	207808.719
	Tangential Direction:		N88°56'33.47"E		
	Tangential Length:		2662.12		

Element: Linear

REF31	HPI	(HPI)	787+96.17 R1	449565.332	207808.719
REF32	HPI	(HPI)	814+51.68 R1	449586.601	210464.148
	Tangential Direction:		N89°32'27.97"E		
	Tangential Length:		2655.51		

Element: Linear

REF32	HPI	(HPI)	814+51.68 R1	449586.601	210464.148
REF33	HPI	(HPI)	841+07.17 R1	449608.164	213119.548
	Tangential Direction:		N89°32'05.04"E		
	Tangential Length:		2655.49		

Element: Linear

REF33	HPI	(HPI)	841+07.17 R1	449608.164	213119.548
REF34	HPI	(HPI)	867+72.70 R1	449644.373	215784.838
	Tangential Direction:		N89°13'17.98"E		
	Tangential Length:		2665.54		

Element: Linear

REF34	HPI	(HPI)	867+72.70 R1	449644.373	215784.838
REF35	HPI	(HPI)	894+35.63 R1	449681.761	218447.503
	Tangential Direction:		N89°11'43.91"E		
	Tangential Length:		2662.93		

Element: Linear

REF35	HPI	(HPI)	894+35.63 R1	449681.761	218447.503
REF36	HPI	(HPI)	920+92.01 R1	449706.013	221103.773
	Tangential Direction:		N89°28'36.86"E		

		Tangential Length:	2656.38		
Element: Linear					
REF36	HPI	(HPI)	920+92.01 R1	449706.013	221103.773
CALC PT	HPI	(HPI)	934+23.21 R1	449715.125	222434.942
		Tangential Direction:	N89°36'28.13"E		
		Tangential Length:	1331.20		
Element: Linear					
CALC PT	HPI	(HPI)	934+23.21 R1	449715.125	222434.942
	PC	(PC)	946+06.24 R1	449730.635	223617.869
		Tangential Direction:	N89°14'55.63"E		
		Tangential Length:	1183.03		
Element: Circular					
	PC	(PC)	946+06.24 R1	449730.635	223617.869
CALC PT	HPI	(HPI)	947+45.08 R1	449732.456	223756.691
	CC	(CC)		452022.268	223587.822
		EQNBK	947+56.12 R1	449737.498	223767.565
		EQNAH	0+00.00 R2	449737.498	223767.565
	PT	(PT)	1+27.45 R2	449751.020	223894.279
		Radius:	2291.83		
		Delta:	06°55'59.6" Left		
		Degree of Curvature (Arc):	02°30'00.0"		
		Length:	277.33		
		Tangent:	138.83		
		Chord:	277.16		
		Middle Ordinate:	4.19		
		External:	4.20		
		Back Tangent Direction:	N89°14'55.63"E		
		Back Radial Direction:	S00°45'04.37"E		
		Chord Direction:	N85°46'55.81"E		
		Ahead Radial Direction:	S07°41'04.00"E		
		Ahead Tangent Direction:	N82°18'56.00"E		
Element: Linear					
	PT	(PT)	1+27.45 R2	449751.020	223894.279
	PC	(PC)	4+34.84 R2	449792.124	224198.910
		Tangential Direction:	N82°18'56.00"E		
		Tangential Length:	307.39		
Element: Circular					
	PC	(PC)	4+34.84 R2	449792.124	224198.910
CALC PT	HPI	(HPI)	5+43.59 R2	449806.665	224306.680
	CC	(CC)		447520.826	224505.373
	PT	(PT)	6+52.17 R2	449810.937	224415.343
		Radius:	2291.88		
		Delta:	05°25'59.3" Right		
		Degree of Curvature (Arc):	02°29'59.8"		
		Length:	217.33		
		Tangent:	108.75		
		Chord:	217.25		

Middle Ordinate:	2.58
External:	2.58
Back Tangent Direction:	N82°18'56.00"E
Back Radial Direction:	S07°41'04.00"E
Chord Direction:	N85°01'55.66"E
Ahead Radial Direction:	S02°15'04.67"E
Ahead Tangent Direction:	N87°44'55.33"E

Element: Linear

	PT	(PT)	6+52.17 R2	449810.937	224415.343
REF3 (WOOD COUNTY)	POT	(POT)	26+03.37 R2	449887.585	226365.033
	Tangential Direction:		N87°44'55.33"E		
	Tangential Length:		1951.20		