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- when it has to be **right**



Level Report

Report created: 01/07/2021 08:46:42

Project Details

General

Project Name: TUS-250-23.46 PID 102408
 Owner: -
 Lead Surveyor: Jon Penix
 Date Created: 08/24/2020 11:25:16
 Last Accessed: 01/07/2021 08:43:28
 Application Software: Infinity 3.4.0

Customer Details

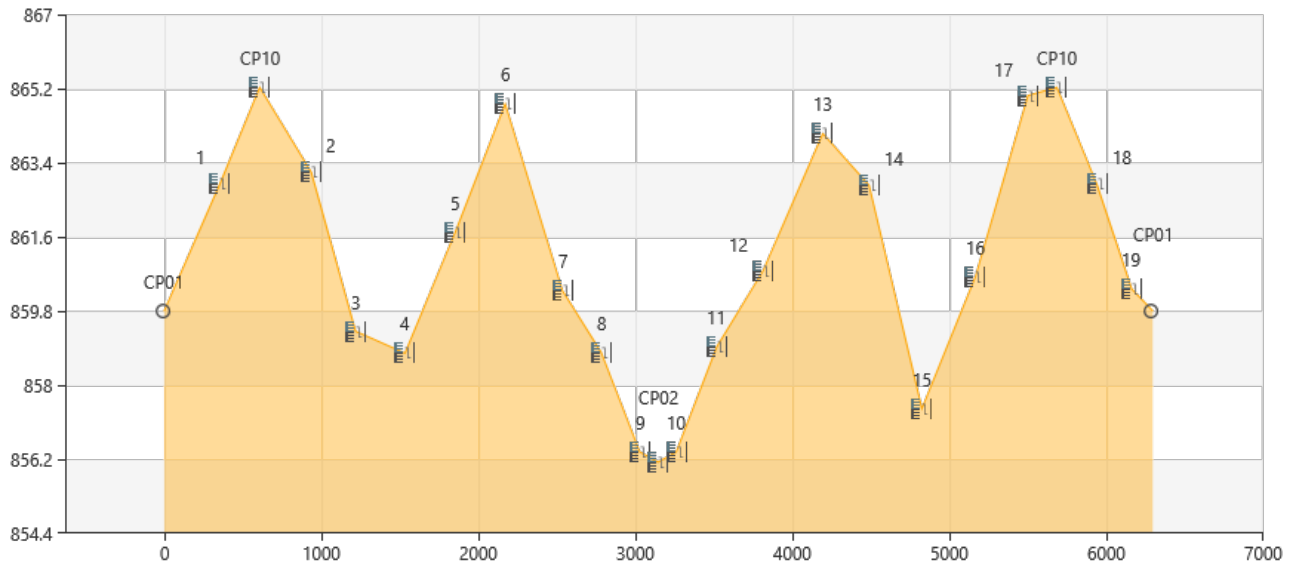
Customer Name: -
 Contact Person: -
 Number: -
 Email: -
 Skype: -
 Website: -

Master Coordinate System

Coordinate System Name: OHIO NORTH
 Transformation Type: Classical 3D
 Residual Distribution: None
 Ellipsoid: GRS 1980
 Projection Type: Lambert two
 Geoid Model: OH G18 GRS80
 CSCS Model: -

Path: I:\ProjectData\102408\Design\Survey\RawData\Level\Infinity\TUS-250-23.46 PID 102408\TUS-250-23.46 PID 102408.iprj
 Size: 207.6 MB
 Comments: -

Level Line Id: LINE00001



General

Date/Time: 7/17/2021 8:56:12 AM
 Staff One Id:
 Staff Two Id:
 Start Point: CP01
 End Point: CP01
 Instrument Type: Dna3/10
 Method: BF
 Stations: 23
 Observations: 46

Results

Height Difference: 0.000 ftUS
 Length: 6,295.034 ftUS
 Misclosure: 0.020 ftUS
 Height Error / Point: 0.001 ftUS
 Total Distance Balance: **-214.742 ftUS**
 Total Station Difference: -

Processing Parameters

Adjustment Method: By Distance
 Staff Corrections: Not Applied

Points

Point Id	Date/Time	Height [ftUS]	ΔHeight [ftUS]	SD [ftUS]
CP01	7/17/2021 8:56:14 AM	859.805	-	-
1	7/17/2021 8:58:27 AM	862.886	3.081	0.000
CP10	7/17/2021 9:03:12 AM	865.232	2.346	0.000
2	7/17/2021 9:08:05 AM	863.175	-2.057	0.000
3	7/17/2021 9:13:26 AM	859.311	-3.865	0.000
4	7/17/2021 9:18:54 AM	858.779	-0.532	0.000
5	7/17/2021 9:24:33 AM	861.692	2.914	0.000
6	7/17/2021 9:30:31 AM	864.832	3.140	0.000
7	7/17/2021 9:36:52 AM	860.295	-4.537	0.000
8	7/17/2021 9:43:19 AM	858.800	-1.495	0.000
9	7/17/2021 9:48:40 AM	856.384	-2.416	0.000
CP02	7/17/2021 9:51:37 AM	856.133	-0.251	0.000
10	7/17/2021 9:52:40 AM	856.383	0.250	0.000
11	7/17/2021 9:57:06 AM	858.929	2.546	0.000
12	7/17/2021 10:01:56 AM	860.775	1.846	0.000
13	7/17/2021 10:08:11 AM	864.112	3.337	0.000
14	7/17/2021 10:13:26 AM	862.852	-1.260	0.000
15	7/17/2021 10:19:43 AM	857.436	-5.416	0.000
16	7/17/2021 10:25:04 AM	860.634	3.198	0.000
17	7/17/2021 10:29:17 AM	865.036	4.402	0.000
CP10	7/17/2021 10:33:05 AM	865.234	0.198	0.000
18	7/17/2021 10:36:02 AM	862.880	-2.354	0.000
19	7/17/2021 10:39:34 AM	860.339	-2.540	0.000
CP01	7/17/2021 8:56:14 AM	859.805	-0.534	-

Line Tolerances

Allowable Misclosure $E = a + b \sqrt{L}$
 a: 0.029 ftUS
 b: 0.007 ftUS
 L (Level Line Length): 1.192 mi
 Height Error / Point: 0.002 ftUS
 Total Distance Balance: 30.000 ftUS

Observation Tolerances

Double Observation Check: 0.003 ftUS
 Station Difference: 0.001 ftUS
 Max. Sight Distance: 130.000 ftUS
 Min. Ground Clearance: 1.600 ftUS

Point Height Tolerances

Height Spread: 0.066 ftUS
 Max. Difference From Fixed Height: 0.033 ftUS

Booking Sheet

Point Id	Type	BS [ftUS]	IS [ftUS]	FS [ftUS]	Rise [ftUS]	Fall [ftUS]	Hz Dist. [ftUS]	ΔHeight [ftUS]	ΔHeight Corr. [ftUS]	Height [ftUS]	Remark
CP01		-	-	-	-	-	-	0.000	0.000	859.805	
CP01	BS1	5.901	-	-	-	-	156.391	-	-	-	
1	FS1	-	-	2.819	3.082	-	197.715	-	-	-	
1		-	-	-	-	-	-	3.082	-0.001	862.886	
1	BS1	7.638	-	-	-	-	142.493	-	-	-	
CP10	FS1	-	-	5.291	2.347	-	111.761	-	-	-	
CP10		-	-	-	-	-	-	2.347	-0.001	865.232	
CP10	BS1	5.824	-	-	-	-	123.145	-	-	-	
2	FS1	-	-	7.879	-	2.056	204.811	-	-	-	
2		-	-	-	-	-	-	-2.056	-0.001	863.175	
2	BS1	3.825	-	-	-	-	151.305	-	-	-	
3	FS1	-	-	7.689	-	3.864	131.012	-	-	-	
3		-	-	-	-	-	-	-3.864	-0.001	859.311	
3	BS1	2.386	-	-	-	-	135.355	-	-	-	
4	FS1	-	-	2.917	-	0.531	179.214	-	-	-	
4		-	-	-	-	-	-	-0.531	-0.001	858.779	
4	BS1	7.303	-	-	-	-	145.039	-	-	-	
5	FS1	-	-	4.389	2.915	-	172.281	-	-	-	
5		-	-	-	-	-	-	2.915	-0.001	861.692	
5	BS1	7.349	-	-	-	-	133.913	-	-	-	
6	FS1	-	-	4.208	3.141	-	186.972	-	-	-	
6		-	-	-	-	-	-	3.141	-0.001	864.832	
6	BS1	3.302	-	-	-	-	210.069	-	-	-	
7	FS1	-	-	7.838	-	4.536	154.937	-	-	-	

7		-	-	-	-	-	-	-4.536	-0.001	860.295	
7	BS1	4.344	-	-	-	-	123.122	-	-	-	
8	FS1	-	-	5.838	-	1.494	122.860	-	-	-	
8		-	-	-	-	-	-	-1.494	-0.001	858.800	
8	BS1	3.813	-	-	-	-	139.913	-	-	-	
9	FS1	-	-	6.228	-	2.415	105.684	-	-	-	
9		-	-	-	-	-	-	-2.415	-0.001	856.384	
9	BS1	5.821	-	-	-	-	58.007	-	-	-	
CP02	FS1	-	-	6.071	-	0.251	58.262	-	-	-	
CP02		-	-	-	-	-	-	-0.251	0.000	856.133	
CP02	BS1	6.072	-	-	-	-	58.260	-	-	-	
10	FS1	-	-	5.821	0.251	-	58.032	-	-	-	
10		-	-	-	-	-	-	0.251	0.000	856.383	
10	BS1	6.309	-	-	-	-	105.469	-	-	-	
11	FS1	-	-	3.762	2.547	-	152.070	-	-	-	
11		-	-	-	-	-	-	2.547	-0.001	858.929	
11	BS1	5.625	-	-	-	-	128.586	-	-	-	
12	FS1	-	-	3.778	1.846	-	166.311	-	-	-	
12		-	-	-	-	-	-	1.846	-0.001	860.775	
12	BS1	7.853	-	-	-	-	194.346	-	-	-	
13	FS1	-	-	4.515	3.338	-	186.512	-	-	-	
13		-	-	-	-	-	-	3.338	-0.001	864.112	
13	BS1	4.809	-	-	-	-	137.765	-	-	-	
14	FS1	-	-	6.068	-	1.259	157.278	-	-	-	
14		-	-	-	-	-	-	-1.259	-0.001	862.852	
14	BS1	2.548	-	-	-	-	160.796	-	-	-	
15	FS1	-	-	7.963	-	5.415	175.313	-	-	-	
15		-	-	-	-	-	-	-5.415	-0.001	857.436	
15	BS1	5.353	-	-	-	-	190.801	-	-	-	
16	FS1	-	-	2.155	3.199	-	149.513	-	-	-	
16		-	-	-	-	-	-	3.199	-0.001	860.634	
16	BS1	7.313	-	-	-	-	143.904	-	-	-	
17	FS1	-	-	2.910	4.403	-	191.196	-	-	-	
17		-	-	-	-	-	-	4.404	-0.001	865.036	
17	BS1	5.895	-	-	-	-	105.791	-	-	-	
CP10	FS1	-	-	5.696	0.199	-	77.956	-	-	-	
CP10		-	-	-	-	-	-	0.199	-0.001	865.234	
CP10	BS1	5.303	-	-	-	-	110.659	-	-	-	
18	FS1	-	-	7.657	-	2.354	144.174	-	-	-	
18		-	-	-	-	-	-	-2.354	-0.001	862.880	
18	BS1	3.591	-	-	-	-	123.449	-	-	-	
19	FS1	-	-	6.130	-	2.540	98.134	-	-	-	
19		-	-	-	-	-	-	-2.540	-0.001	860.339	
19	BS1	5.121	-	-	-	-	61.567	-	-	-	
CP01	FS1	-	-	5.655	-	0.534	72.891	-	-	-	
CP01		-	-	-	-	-	-	-0.534	0.000	859.805	