

Leica Geosystems AG

Heinrich Wild Strasse
CH-9435 Heerbrugg
St. Gallen, Switzerland

Phone: + 41 71 727 3131
Fax: + 41 71 727 4674

- when it has to be **right**

Level Report

Report created: 12/29/2021 07:55:53

Project Details

General

Project Name: HAS-149-1.20 PID 112387
Owner: -
Lead Surveyor: Jon Penix
Date Created: 12/29/2021 06:43:50
Last Accessed: 12/29/2021 06:43:51
Application Software: Infinity 3.4.0

Customer Details

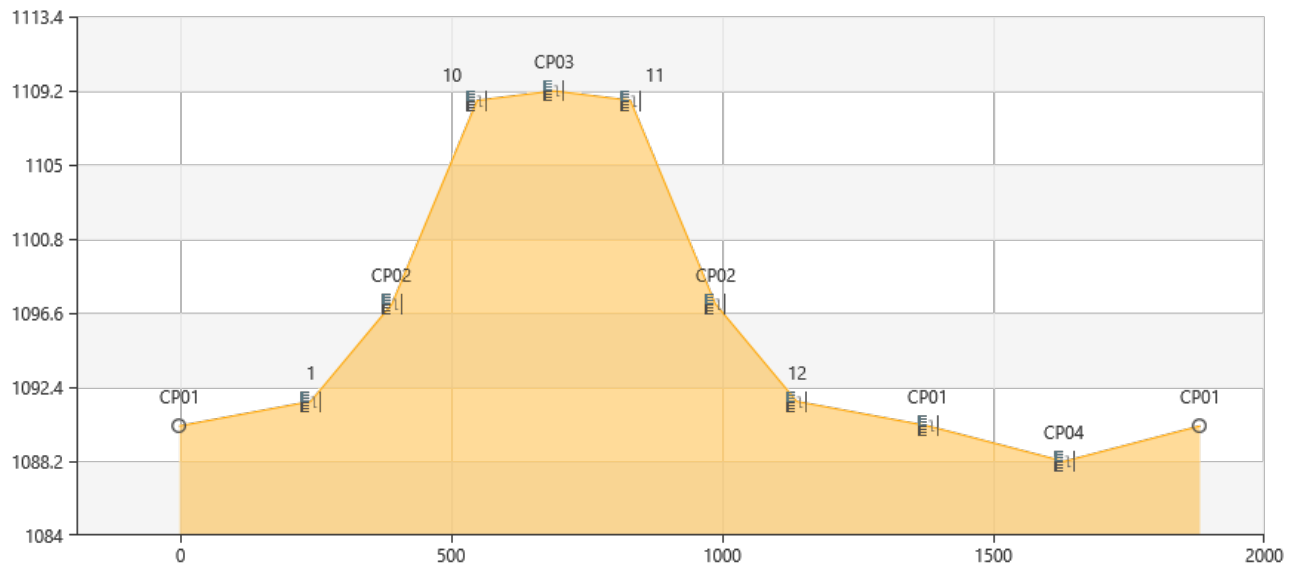
Customer Name: -
Contact Person: -
Number: -
Email: -
Skype: -
Website: -

Master Coordinate System

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

Path: Y:\USERS\survey\PROJECT WISE JOBS\112387\Infinity\HAS-149-1.20 PID 112387\HAS-149-1.20 PID 112387.iprj
Size: 0.6 MB
Comments: -

Level Line Id: LINE00001

**General**

Date/Time: 7/17/2022 1:06:07 PM
Staff One Id: -
Staff Two Id: -
Start Point: CP01
End Point: CP01
Instrument Type: Dna3/10
Method: BF
Stations: 10
Observations: 20

Results

Height Difference: 0.000 ftUS
Length: 1,881.235 ftUS
Misclosure: 0.001 ftUS
Height Error / Point: 0.000 ftUS
Total Distance Balance: 2.718 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	7/17/2022 1:06:09 PM	1,090.206	-	-
1	7/17/2022 1:08:08 PM	1,091.592	1.386	0.000
CP02	7/17/2022 1:11:44 PM	1,097.117	5.525	0.000
10	7/17/2022 1:22:47 PM	1,108.647	11.529	0.000
CP03	7/17/2022 1:26:52 PM	1,109.188	0.542	0.001
11	7/17/2022 1:28:07 PM	1,108.648	-0.541	0.001
CP02	7/17/2022 1:31:03 PM	1,097.117	-11.530	0.001
12	7/17/2022 1:34:10 PM	1,091.593	-5.524	0.001
CP01	7/17/2022 1:37:49 PM	1,090.206	-1.387	0.001
CP04	7/17/2022 1:41:19 PM	1,088.193	-2.013	0.001
CP01	7/17/2022 1:06:09 PM	1,090.206	2.013	-

Line Tolerances

Allowable Misclosure $E = a + b \sqrt{L}$
 a: 0.007 ftUS
 b: 0.021 ftUS/√mi
 L (Level Line Length): 0.356 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	1,090.206	
CP01	BS1	3.858	-	-	-	-	121.522	-	-	-	
1	FS1	-	-	2.472	1.386	-	119.940	-	-	-	
1		-	-	-	-	-	-	1.386	0.000	1,091.592	
1	BS1	8.979	-	-	-	-	77.872	-	-	-	
CP02	FS1	-	-	3.454	5.525	-	72.058	-	-	-	
CP02		-	-	-	-	-	-	5.525	0.000	1,097.117	
CP02	BS1	12.984	-	-	-	-	108.741	-	-	-	
10	FS1	-	-	1.454	11.529	-	48.214	-	-	-	
10		-	-	-	-	-	-	11.529	0.000	1,108.647	
10	BS1	3.564	-	-	-	-	60.143	-	-	-	
CP03	FS1	-	-	3.022	0.542	-	81.076	-	-	-	
CP03		-	-	-	-	-	-	0.542	0.000	1,109.188	
CP03	BS1	3.022	-	-	-	-	81.102	-	-	-	
11	FS1	-	-	3.563	-	0.541	60.226	-	-	-	
11		-	-	-	-	-	-	-0.541	0.000	1,108.648	
11	BS1	1.411	-	-	-	-	48.140	-	-	-	
CP02	FS1	-	-	12.941	-	11.530	108.738	-	-	-	
CP02		-	-	-	-	-	-	-11.530	0.000	1,097.117	
CP02	BS1	3.401	-	-	-	-	72.286	-	-	-	
12	FS1	-	-	8.925	-	5.524	77.696	-	-	-	
12		-	-	-	-	-	-	-5.524	0.000	1,091.593	
12	BS1	2.570	-	-	-	-	121.285	-	-	-	
CP01	FS1	-	-	3.957	-	1.387	120.480	-	-	-	
CP01		-	-	-	-	-	-	-1.387	0.000	1,090.206	
CP01	BS1	5.946	-	-	-	-	117.699	-	-	-	
CP04	FS1	-	-	7.959	-	2.013	133.189	-	-	-	
CP04		-	-	-	-	-	-	-2.013	0.000	1,088.193	
CP04	BS1	7.960	-	-	-	-	133.185	-	-	-	
CP01	FS1	-	-	5.947	2.014	-	117.641	-	-	-	
CP01		-	-	-	-	-	-	2.014	0.000	1,090.206	