

# Level Report

Report created: 11/22/2019 12:41:39

## Project Details

### General

Project Name: US20 ODOT  
 Owner: -  
 Lead Surveyor: Wilson, Casey  
 Date Created: 11/21/2019 09:39:51  
 Last Accessed: 11/21/2019 13:54:42  
 Application Software: Infinity 3.2

### Customer Details

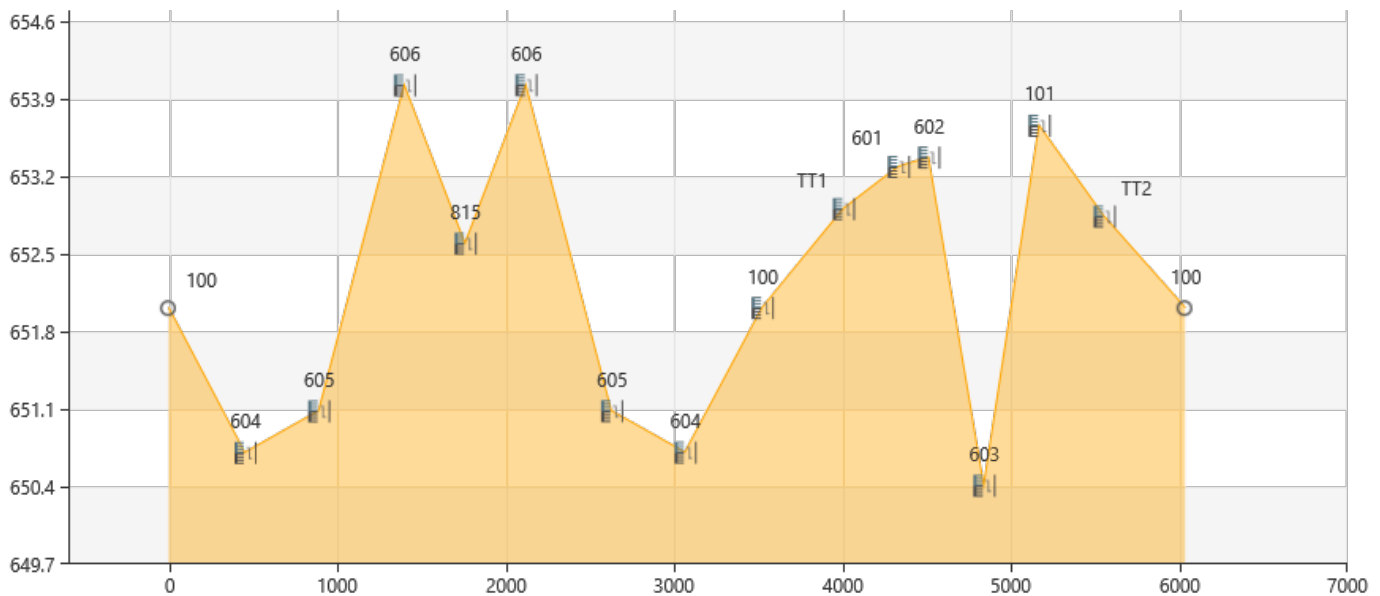
Customer Name: -  
 Contact Person: -  
 Number: -  
 Email: -  
 Skype: -  
 Website: -

### Master Coordinate System

Coordinate System Name: OH N NAD83 12B  
 Transformation Type: Classical 3D  
 Residual Distribution: None  
 Ellipsoid: GRS 1980  
 Projection Type: Lambert two  
 Geoid Model: OHGeoid12B GRS80  
 CSCS Model: -

Path: C:\Users\andrew.wilson1\Documents\Leica Geosystems\Infinity\Projects\US20 ODOT\US20 ODOT.iprj  
 Size: 12.1 MB  
 Comments: -

## Level Line Id: Line 001



### General

Date/Time: 11/21/2019 7:00:10 PM  
 Staff One Id: -  
 Staff Two Id: -  
 Start Point: 100  
 End Point: 100  
 Instrument Type: -  
 Method: BF  
 Stations: 15  
 Observations: 30

### Results

Height Difference: 0.000 ftUS  
 Length: 6,039.465 ftUS  
 Misclosure: -0.007 ftUS  
 Height Error / Point: 0.000 ftUS  
 Total Distance Balance: **-340.306 ftUS**  
 Total Station Difference: -

### Processing Parameters

Adjustment Method: Equally  
 Staff Corrections: Not Applied

### Points

Point Id	Date/Time	Height [ftUS]	ΔHeight [ftUS]	SD [ftUS]
100	11/21/2019 11:58:35 AM	652.011	-	-
604	11/21/2019 7:00:15 PM	650.703	-1.308	0.001

605	11/21/2019 7:00:19 PM	651.078	0.375	0.001
606	11/21/2019 7:00:23 PM	654.021	2.942	0.001
815	11/21/2019 7:00:27 PM	652.592	-1.429	0.002
606	11/21/2019 7:00:31 PM	654.023	1.431	0.002
605	11/21/2019 7:00:35 PM	651.080	-2.944	0.002
604	11/21/2019 7:00:39 PM	650.706	-0.374	0.002
100	11/21/2019 7:00:11 PM	652.011	1.305	0.003
TT1	11/21/2019 7:00:47 PM	652.905	0.894	0.002
601	11/21/2019 7:00:51 PM	653.285	0.381	0.003
602	11/21/2019 7:00:55 PM	653.369	0.083	0.003
603	11/21/2019 7:00:59 PM	650.408	-2.961	0.003
101	11/21/2019 7:01:03 PM	653.657	3.250	0.003
TT2	11/21/2019 7:01:07 PM	652.837	-0.821	0.003
100	11/21/2019 11:58:35 AM	652.011	-0.826	-

**Line Tolerances**

Allowable Misclosure  $E = a + b \sqrt{L}$   
 a: 0.007 ftUS  
 b: 0.021 ftUS/ $\sqrt{mi}$   
 L (Level Line Length): 1.144 mi  
 Height Error / Point: 0.002 ftUS  
 Total Distance Balance: 32.808 ftUS

**Observation Tolerances**

Double Observation Check: 0.003 ftUS  
 Station Difference: 0.001 ftUS  
 Max. Sight Distance: 131.233 ftUS  
 Min. Ground Clearance: 1.640 ftUS

**Point Height Tolerances**

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

**Booking Sheet**

Point Id	BS [ftUS]	IS [ftUS]	FS [ftUS]	Rise [ftUS]	Fall [ftUS]	Hz Dist. [ftUS]	$\Delta$ Height [ftUS]	$\Delta$ Height Corr. [ftUS]	Height [ftUS]	Remark
100	-	-	-	-	-	-	0.000	0.000	652.011	
100	4.096	-	-	-	-	186.759	-	-	-	
604	-	-	5.404	-	1.308	265.528	-	-	-	
604	-	-	-	-	-	-	-1.308	0.000	650.703	
604	5.227	-	-	-	-	243.069	-	-	-	
605	-	-	4.852	0.375	-	194.837	-	-	-	
605	-	-	-	-	-	-	0.375	0.000	651.078	
605	5.659	-	-	-	-	245.900	-	-	-	
606	-	-	2.717	2.942	-	263.262	-	-	-	
606	-	-	-	-	-	-	2.942	0.000	654.021	
606	4.860	-	-	-	-	185.582	-	-	-	
815	-	-	6.289	-	1.429	175.338	-	-	-	
815	-	-	-	-	-	-	-1.429	0.000	652.592	
815	6.513	-	-	-	-	175.253	-	-	-	
606	-	-	5.082	1.431	-	185.575	-	-	-	
606	-	-	-	-	-	-	1.431	0.000	654.023	
606	2.693	-	-	-	-	263.250	-	-	-	
605	-	-	5.637	-	2.944	245.920	-	-	-	
605	-	-	-	-	-	-	-2.944	0.000	651.080	
605	4.686	-	-	-	-	186.219	-	-	-	
604	-	-	5.060	-	0.374	250.065	-	-	-	
604	-	-	-	-	-	-	-0.374	0.000	650.706	
604	5.117	-	-	-	-	206.402	-	-	-	
100	-	-	3.814	1.304	-	252.476	-	-	-	
100	-	-	-	-	-	-	1.304	0.000	652.011	
100	5.251	-	-	-	-	268.912	-	-	-	
TT1	-	-	4.357	0.894	-	213.236	-	-	-	
TT1	-	-	-	-	-	-	0.894	0.000	652.905	
TT1	4.423	-	-	-	-	158.027	-	-	-	
601	-	-	4.043	0.380	-	168.959	-	-	-	
601	-	-	-	-	-	-	0.380	0.000	653.285	
601	4.042	-	-	-	-	26.245	-	-	-	
602	-	-	3.959	0.083	-	153.533	-	-	-	
602	-	-	-	-	-	-	0.083	0.000	653.369	
602	4.127	-	-	-	-	153.655	-	-	-	
603	-	-	7.088	-	2.962	174.466	-	-	-	
603	-	-	-	-	-	-	-2.962	0.000	650.408	
603	7.266	-	-	-	-	174.498	-	-	-	
101	-	-	4.016	3.249	-	153.989	-	-	-	
101	-	-	-	-	-	-	3.249	0.000	653.657	
101	4.134	-	-	-	-	173.775	-	-	-	
TT2	-	-	4.955	-	0.821	212.624	-	-	-	
TT2	-	-	-	-	-	-	-0.821	0.000	652.837	
TT2	4.312	-	-	-	-	202.034	-	-	-	
100	-	-	5.138	-	0.826	280.075	-	-	-	
100	-	-	-	-	-	-	-0.826	0.000	652.011	