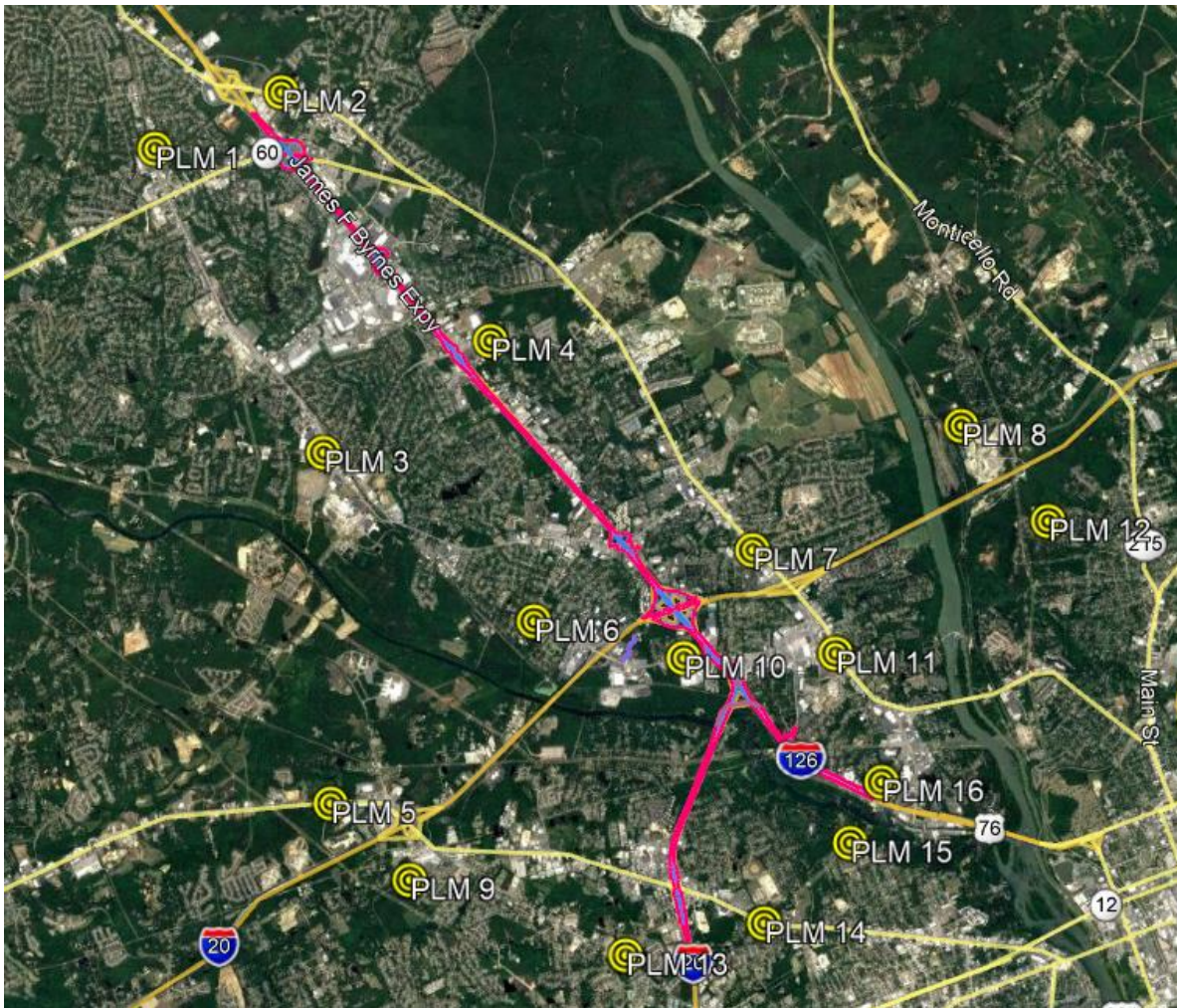




P027662 Carolina Crossroads  
Richland and Lexington Counties

Mobile LiDAR Pavement DTM  
and Project Localization Monuments



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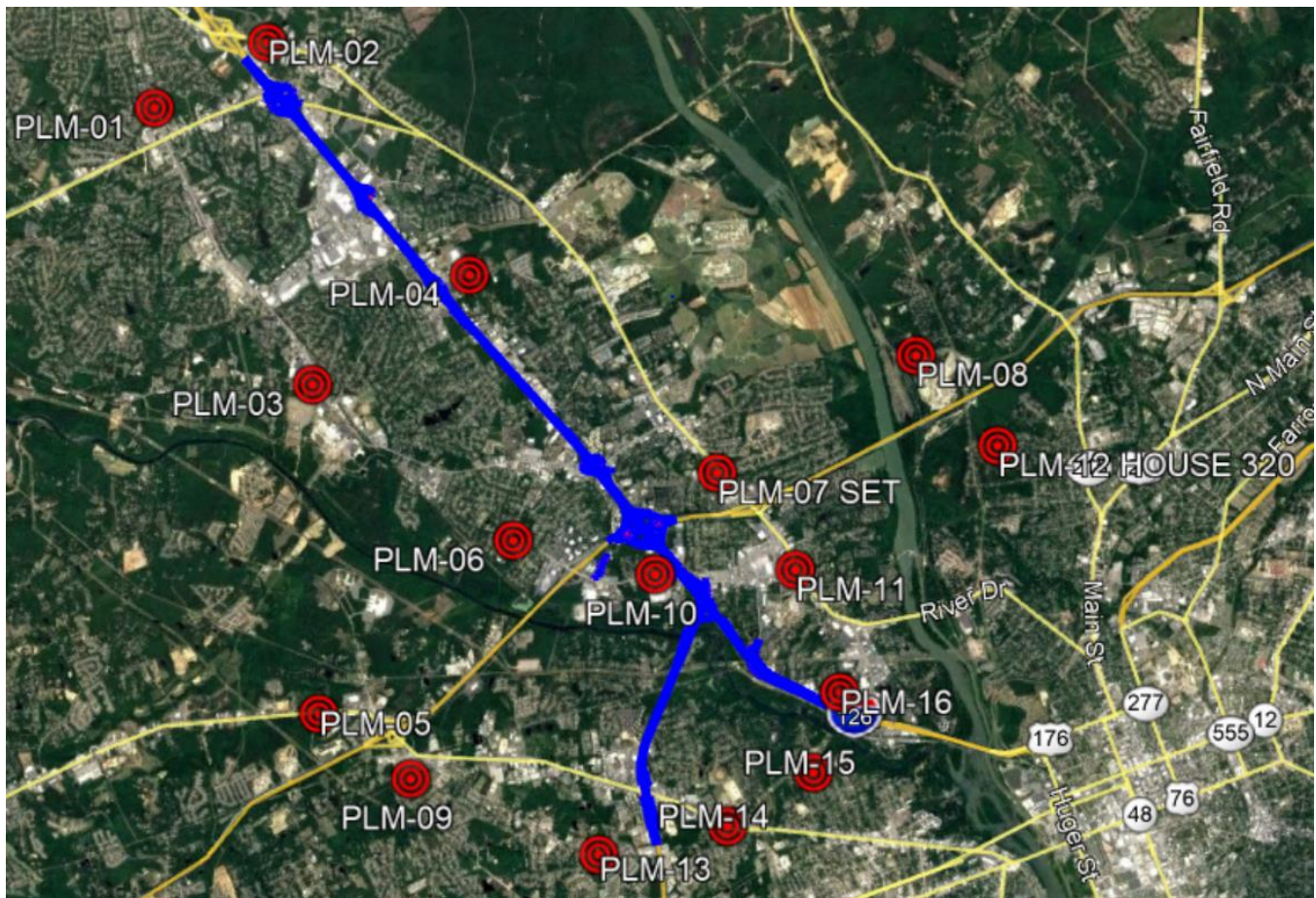


PROJECT REPORT  
Carolina Crossroads Mobile LiDAR Pavement DTMs and PLM Control  
SCDOT Project #: P027662  
February 3, 2020

**Overview**

ESP Associates, Inc. (ESP) met with SCDOT to scope this Carolina Crossroads project on July 18, 2019. The project was presented as two separate parts; one for establishing 16 new Project Localization Monuments (PLM), and the other for surveying accurate pavement DTMs using mobile LiDAR along the designated routes below. The project falls within both Lexington and Richland Counties, South Carolina.

The screen capture below shows the location of all PLMs established as well as the drive paths/project limits of the mobile LiDAR collection and mapping.





### **Project Localization Monuments (PLM)**

During the scoping meeting with SCDOT, ESP was briefed on the existing control and mapping status of the Carolina Crossroads project. There are two existing sets of control and aerial mapping products covering the project; one was established in 2009, and the other in 2018. The 2009 control was established via the South Carolina Real-Time-Network (CORS) and the 2018 control via a site calibration using existing NGS monuments throughout the project. Both sets of control used published benchmarks for establishing elevations, but none of the benchmarks were held in common.

The purpose for establishing the sixteen (16) PLM is to, moving forward, have a permanent set of project control points that can be calibrated to, checked into, held fixed, etc. for future surveys and mapping on the various phases of this project. These PLM had to match, within tolerance, the existing control and aerial photogrammetric mapping that had previously been completed in 2009 and 2018.

### **Static GNSS Network Details**

ESP performed a static GNSS network adjustment that included the sixteen (16) new PLM, three (3) CORS, nine (9) 2009 control points, and fifteen (15) 2018 control points. The minimal constraint network adjustment was performed holding a single 2009 control point “126E25” located at the south end of the project limits along I-126. ESP evaluated the minimal constraint deviations and, for the full constraint network adjustment, held the points that provided full project coverage and had minimal northing and easting deviations. The full constraint network adjustment included all nine (9) 2009 control points, seven (7) 2018 control points, and one CORS. The static GNSS network adjustment was performed using Trimble Business Center Version 5.1. The full constraint network adjustment can be found within the file “P027662\_CCR\_Full\_GNSS\_NetworkAdjustmentReport.pdf”. All network loop closures can be found within the file “P027662\_CCR\_GNSS\_LoopClosuresReport.pdf”.

### **Establishment of Project Elevations (PLM, 2009, & 2018 Control)**

ESP performed double-run, closed digital level loops, using a Trimble DiNi Series 0.3mm per KM, throughout the entire project; tying together most of the 2009 and 2018 control that could be recovered and were relevant to the project area. A total of sixty (61) 2009 control points, twenty-four (24) 2018 control points, and three (3) NGS monuments were included in the level runs. ESP balanced the level runs to establish a best-fit scenario amongst all control points. ESP held elevations on twenty-four (24) of the 2009 control points and on five (5) of the 2018 control points. Adjusted elevation deviations on the remaining control points ranged from 0.01’ to 0.13’, with a majority being within 0.07’. Overall, the project control agreed pretty well with only a few outliers.

The file “P027662\_CCR\_Final\_Control\_Elevations\_Leveled\_vs\_Published.pdf” shows which control point elevations were held ( $\Delta Z = 0.00$ ) and what the deviations are for those that were adjusted.

In order to ensure elevation consistencies between existing control and the new PLM, ESP also ran closed level loops between the final adjusted 2009 and 2018 control points to the PLM when practical. The PLM having level ties to control points are 1, 2, 3, 4, 6, 7, 10, 11, 13, 14, 15, and 16. Elevations on PLM 5, 8, 9, and 12 were established within the static GNSS network adjustment.



### **Mobile LiDAR Pavement DTMs**

The intent of this project is to achieve mobile LiDAR pavement DTMs within the National Standard Spatial Data Accuracy (NSSDA) vertical requirement of 0.05'. This accuracy is achieved by taking the computed Root Mean Square Error (RMSE) of selected checkpoints and multiplying that number by 1.96 to reflect an overall error within a 95% confidence level. The field and office methodologies used to achieve this accuracy are described below.

The mobile LiDAR collection was performed using a Trimble MX8 Mobile LiDAR and Imagery System between September 3 and November 14, 2019. All mobile LiDAR trajectories were post-processed from a single GNSS base set on control point 10130\_PSC. All baselines processed from this location to the mobile LiDAR trajectories were less than 5 miles.

ESP established our mobile LiDAR panels (224) and validation points (219) along the shoulders of the roadways where feasible. Panels consist of 1' x 2' white reflective adhesive material and validation points are PK nails set flush with the paved surface. The approximate spacing between panels and validations points are 1500' and 500' respectively, where spacing between any two mobile LiDAR control points is intended to be no greater than 500'.

All mobile LiDAR control elevations were established via double-run, closed digital level loops in conjunction with the primary control (2009 & 2018) and adjustment methods described above.

All mobile LiDAR control coordinates were established via performing redundant GNSS observations using the South Carolina Real-Time-Network (RTN) to obtain a horizontal accuracy of +/- 0.07'. Additional RTN GNSS observations were made on all sixteen (16) PLM and six (6) selected 2009 control points to establish a site calibration within which all mobile LiDAR control was adjusted. The highest horizontal residual within the site calibration is 0.036', and all details are provided within the file "P027662\_CCR\_GNSS\_SITE\_CALIB.pdf".

The final mobile LiDAR control (panels and validation points) can be found in the file "P027662\_CCR\_Mobile\_LiDAR\_Control.pdf".

### **Mobile LiDAR Point Cloud Registration and Quality Control**

ESP performed both cloud to control and cloud to cloud registrations on this project to provide a congruent and high accuracy data set throughout. Initial/outside lane runs were registered to all mobile LiDAR panels and validation points, and subsequent/inside lane runs were registered to the adjoining/initial runs. A RMSE report "P027662\_CCR\_RMSE\_200131.pdf" was run to compare the final TIN/DTM surface to the surveyed panels and validation points.

The calculated RMSE for the TIN-to-control point comparison was 0.0080'. The NSSDA vertical accuracy for the final DTM-to-panel/validation point comparison is  $1.960 * 0.0080' = \mathbf{0.0156'}$  (95% Conf.)





### **Microstation/DTM Mapping Information**

ESP created a digital terrain model using the following parameters:

Curve Stroking Tolerance - 0.15'

Minimum Linear Distance - 30'

Side Length of Triangles - 50'

Mapping Scale - 1" = 50'

Pavement DTM Grid = 2.5'

The 2.5' grid begins approximately 6" offset from the base of the barrier walls (EP).

The pavement DTM extends from the edge of the point grid over to the base of the barrier walls (EP).

Files submitted in Microstation V8i SS4

### **Classification of Delivered Point Clouds**

The registered point clouds were classified into the following groups/levels:

Level 2 – Ground = Road Surface

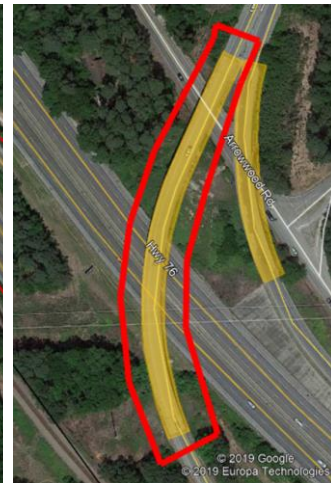
Level 3 – Low Vegetation = Barrier Walls

Level 4 – Medium Vegetation = Overhead Signs

Level 5 – High Vegetation = Bridges

### **Project Anomalies**

- ESP worked with a roadway safety contractor (Stay Alert) in several areas deemed too dangerous to work without lane or shoulder closures. All of this work was performed during late-night hours to minimize impacts on normal traffic flow.
- ESP worked both daytime and late evening hours while performing this work. Daytime hours were restricted to between 9 AM and 3:30/4:00 PM.
- ESP was unable to establish mobile LiDAR control on the two fly-over bridges shown below (I-126 WB to I-26 EB and Colonial Life Blvd W to I-126 E) due to safety restrictions. There is a 2500' and 1000' gap between control points on these bridges respectively. ESP performed cloud to cloud registrations, constraining the overpass runs to the underpass runs, along these bridges. Data along these bridges may/may not meet the required 0.05' accuracy tolerance.



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**Project Summary & Deliverables**

ESP delivered all mobile LiDAR pavement DTMs, PLM Control, and associated reports on February 3, 2020.

Please contact me if you have any questions regarding this project (803) 835-0875.

A handwritten signature in blue ink that reads "Daniel B. Hill".

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Daniel B. Hill, PLS – ESP Associates, Inc.

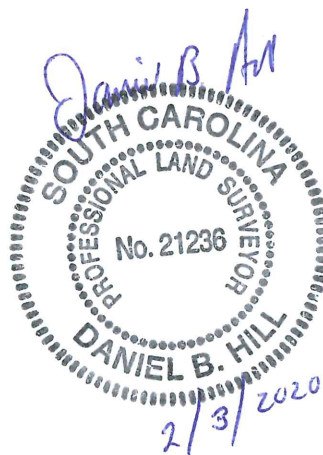


P027662 - Carolina Crossroads PLM Control

Static GNSS Network and level ties to Primary Survey Control

NAD83 South Carolina State Plane Coordinates / NAVD 88 Elevations / Geoid 12B  
International Feet

Point ID	Northing	Easting	Elev	Description
PLM01	820992.910	1943992.559	373.08	3-1/4" Alum. Cap
PLM02	823980.030	1949196.768	329.51	3-1/4" Alum. Cap
PLM03	808309.400	1951260.043	236.20	3-1/4" Alum. Cap
PLM04	813317.448	1958503.064	297.51	3-1/4" Alum. Cap
PLM05	793236.460	1951533.074	306.94	3-1/4" Alum. Cap
PLM06	801164.557	1960501.280	255.68	3-1/4" Alum. Cap
PLM07	804246.283	1969895.482	316.64	PK Nail
PLM08	809611.050	1979062.152	259.05	3-1/4" Alum. Cap
PLM09	790250.213	1955760.262	383.59	3-1/4" Alum. Cap
PLM10	799606.280	1967034.373	231.12	PK Nail
PLM11	799806.407	1973491.611	321.55	3-1/4" Alum. Cap
PLM12	805461.831	1982905.968	343.38	3-1/4" Alum. Cap
PLM13	786775.210	1964426.115	317.69	3-1/4" Alum. Cap
PLM14	788060.190	1970363.005	261.77	3-1/4" Alum. Cap
PLM15	790538.848	1974311.542	271.61	3-1/4" Alum. Cap
PLM16	794186.470	1975558.698	232.37	3-1/4" Alum. Cap





# Minimal Constraint Network Adjustment

## Carolina Crossroads Project Localization Monuments

ESP Associates, Inc.

Project File Data		Coordinate System	
Name:	C:\Users\bmoravec\Documents\Trimble Business Center\SCDOT_CCR_StaticPLMs_2.vce	Name:	US State Plane 1983
Size:	261 KB	Datum:	NAD 1983 (Conus)
Modified:	12/11/2019 1:57:05 PM (UTC:-5)	Zone:	South Carolina 3900
Time zone:	Eastern Standard Time	Geoid:	GEOID12B (Conus)
Reference number:	HN42.003.000	Vertical datum:	NAVD88
Description:		Calibrated site:	

## Network Adjustment Report

### Adjustment Settings

#### Set-Up Errors

##### GNSS

Error in Height of Antenna: 0.007 m

Centering Error: 0.010 m

##### Covariance Display

##### Horizontal:

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

##### Three-Dimensional

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

### Adjustment Statistics

Number of Iterations for Successful Adjustment: 2

Network Reference Factor: 0.99

Chi Square Test (95%): Passed

Precision Confidence Level: 95%

Degrees of Freedom: 114

#### Post Processed Vector Statistics

Reference Factor: 0.99

Redundancy Number: 114.00

A Priori Scalar: 0.41

### Control Coordinate Comparisons

Values shown are control coordinates minus adjusted coordinates.

Point ID	ΔEasting (Meter)	ΔNorthing (Meter)	ΔElevation (Meter)	ΔHeight (Meter)
<a href="#">126E25</a>	0.002	0.000	0.012	?
<a href="#">26E109</a>	0.006	-0.009	0.005	?
<a href="#">26E60</a>	0.011	-0.029	0.015	?
<a href="#">10103PSC</a>	0.027	0.009	0.008	?
<a href="#">10104PSC</a>	0.023	0.020	0.004	?
<a href="#">10109PSC</a>	0.031	-0.008	-0.005	?
<a href="#">10110PSC</a>	0.020	-0.003	0.026	?
<a href="#">10111PSC</a>	0.022	0.013	0.008	?
<a href="#">10112PSC</a>	0.016	0.014	0.014	?
<a href="#">10115PSC</a>	0.058	0.021	0.005	?
<a href="#">10116PSC</a>	0.036	0.023	-0.003	?
<a href="#">10119PSCZOO</a>	0.015	-0.003	0.010	?
<a href="#">10120PSC</a>	0.023	-0.001	0.014	?
<a href="#">10121PSC</a>	0.104	0.018	0.001	?
<a href="#">10122PSC</a>	0.095	0.012	0.006	?
<a href="#">10127PSC</a>	-0.008	0.020	-0.045	?
<a href="#">10128PSC</a>	-0.004	0.025	-0.048	?
<a href="#">10205MSC</a>	0.032	0.016	0.005	?
<a href="#">26W113</a>	0.007	-0.002	-0.002	?
<a href="#">26W150</a>	0.006	-0.010	0.005	?
<a href="#">26W20</a>	0.021	-0.014	0.000	?
<a href="#">26W60</a>	0.006	-0.010	0.008	?
<a href="#">7757D</a>	-0.005	0.015	-0.014	?
<a href="#">COLA</a>	0.013	-0.010	-0.009	?
<a href="#">PLM01</a>	?	?	0.011	?
<a href="#">PLM02</a>	?	?	0.003	?
<a href="#">PLM03</a>	?	?	0.012	?
<a href="#">PLM04</a>	?	?	0.007	?
<a href="#">PLM06</a>	?	?	-0.016	?
<a href="#">PLM07</a>	?	?	-0.007	?
<a href="#">PLM10</a>	?	?	-0.002	?
<a href="#">PLM11</a>	?	?	-0.015	?
<a href="#">PLM13</a>	?	?	0.001	?
<a href="#">PLM14</a>	?	?	0.000	?
<a href="#">PLM15</a>	?	?	0.002	?
<a href="#">PLM16</a>	?	?	0.006	?

### Control Point Constraints

Point ID	Type	East $\sigma$ (Meter)	North $\sigma$ (Meter)	Height $\sigma$ (Meter)	Elevation $\sigma$ (Meter)
<a href="#">36A</a>	Grid	Fixed	Fixed		Fixed
Fixed = 0.000001(Meter)					

### Adjusted Grid Coordinates

Point ID	Easting (Meter)	Easting Error (Meter)	Northing (Meter)	Northing Error (Meter)	Elevation (Meter)	Elevation Error (Meter)	Constraint
<a href="#">126E25</a>	602233.842	0.017	241745.896	0.017	58.379	0.013	
<a href="#">26E109</a>	599809.784	0.017	243849.825	0.017	70.123	0.012	
<a href="#">26E60</a>	596501.139	0.018	247701.028	0.018	78.959	0.014	
<a href="#">10103PSC</a>	593631.034	0.019	251246.507	0.019	105.495	0.014	
<a href="#">10104PSC</a>	593347.958	0.017	251162.030	0.017	105.487	0.014	
<a href="#">10109PSC</a>	596367.169	0.017	247763.743	0.017	83.505	0.013	
<a href="#">10110PSC</a>	596578.841	0.017	247871.047	0.017	84.647	0.013	
<a href="#">10111PSC</a>	598428.205	0.010	245159.375	0.010	77.798	0.007	
<a href="#">10112PSC</a>	598803.261	0.010	245222.492	0.010	70.081	0.007	
<a href="#">10115PSC</a>	600085.064	0.018	243669.163	0.018	72.461	0.014	
<a href="#">10116PSC</a>	599810.550	0.018	243748.218	0.018	66.754	0.013	
<a href="#">10119PSCZOO</a>	602581.622	0.018	241530.922	0.018	62.898	0.013	
<a href="#">10120PSC</a>	602573.892	0.017	241759.931	0.017	67.777	0.013	
<a href="#">10121PSC</a>	603467.396	0.017	245933.497	0.017	58.183	0.013	
<a href="#">10122PSC</a>	603703.804	0.017	246062.113	0.017	54.115	0.013	
<a href="#">10127PSC</a>	596834.800	0.016	242284.776	0.016	97.655	0.012	
<a href="#">10128PSC</a>	596979.041	0.016	242416.553	0.016	89.432	0.012	
<a href="#">10205MSC</a>	593621.360	0.019	251082.931	0.019	98.799	0.014	
<a href="#">26W113</a>	600112.602	0.017	243560.699	0.017	64.275	0.013	
<a href="#">26W150</a>	599589.664	0.016	239934.199	0.016	86.305	0.012	
<a href="#">26W20</a>	593711.215	0.017	251042.868	0.017	98.161	0.013	
<a href="#">26W60</a>	596523.977	0.018	247720.559	0.018	78.926	0.014	
<a href="#">36A</a>	598524.297	?	245180.946	?	70.906	?	ENe
<a href="#">7757D</a>	598852.211	0.013	245272.585	0.013	70.932	0.009	
<a href="#">COLA</a>	598372.157	0.015	249263.448	0.015	113.803	0.012	
<a href="#">PLM01</a>	592528.913	0.014	250238.635	0.015	113.704	0.012	
<a href="#">PLM02</a>	594115.156	0.014	251149.117	0.014	100.432	0.011	
<a href="#">PLM03</a>	594744.047	0.014	246372.706	0.014	71.982	0.011	
<a href="#">PLM04</a>	596951.720	0.013	247899.162	0.013	90.674	0.010	
<a href="#">PLM05</a>	594827.270	0.014	241778.471	0.014	93.555	0.011	
<a href="#">PLM06</a>	597560.778	0.013	244194.957	0.013	77.947	0.009	
<a href="#">PLM07</a>	600424.134	0.013	245134.270	0.013	96.519	0.010	



<a href="#">PLM08</a>	603218.133	0.014	246769.456	0.014	78.966	0.011	
<a href="#">PLM09</a>	596115.719	0.014	240868.264	0.014	116.920	0.011	
<a href="#">PLM10</a>	599552.068	0.013	243719.997	0.013	70.447	0.010	
<a href="#">PLM11</a>	601520.234	0.014	243780.996	0.014	98.023	0.011	
<a href="#">PLM12</a>	604389.728	0.014	245504.773	0.014	104.673	0.011	
<a href="#">PLM13</a>	598757.073	0.014	239809.087	0.014	96.831	0.011	
<a href="#">PLM14</a>	600566.638	0.015	240200.751	0.015	79.787	0.011	
<a href="#">PLM15</a>	601770.151	0.014	240956.245	0.014	82.785	0.011	
<a href="#">PLM16</a>	602150.280	0.014	242068.040	0.014	70.820	0.011	

### Adjusted Geodetic Coordinates

Point ID	Latitude	Longitude	Height (Meter)	Height Error (Meter)	Constraint
<a href="#">126E25</a>	N34°00'47.65422"	W81°04'47.13908"	27.363	0.013	
<a href="#">26E109</a>	N34°01'55.87928"	W81°06'21.71501"	39.190	0.012	
<a href="#">26E60</a>	N34°04'00.76367"	W81°08'30.92328"	48.152	0.014	
<a href="#">10103PSC</a>	N34°05'55.70973"	W81°10'23.10365"	74.784	0.014	
<a href="#">10104PSC</a>	N34°05'52.95204"	W81°10'34.14352"	74.779	0.014	
<a href="#">10109PSC</a>	N34°04'02.79344"	W81°08'36.15219"	52.700	0.013	
<a href="#">10110PSC</a>	N34°04'06.28606"	W81°08'27.90158"	53.842	0.013	
<a href="#">10111PSC</a>	N34°02'38.33921"	W81°07'15.64176"	46.913	0.007	
<a href="#">10112PSC</a>	N34°02'40.40208"	W81°07'01.01930"	39.192	0.007	
<a href="#">10115PSC</a>	N34°01'50.02384"	W81°06'10.97499"	41.520	0.014	
<a href="#">10116PSC</a>	N34°01'52.58104"	W81°06'21.68110"	35.819	0.013	
<a href="#">10119PSCZOO</a>	N34°00'40.68442"	W81°04'33.57618"	31.873	0.013	
<a href="#">10120PSC</a>	N34°00'48.11813"	W81°04'33.88407"	36.756	0.013	
<a href="#">10121PSC</a>	N34°03'03.61623"	W81°03'59.15905"	27.236	0.013	
<a href="#">10122PSC</a>	N34°03'07.79605"	W81°03'49.94274"	23.169	0.013	
<a href="#">10127PSC</a>	N34°01'04.96203"	W81°08'17.62624"	66.739	0.012	
<a href="#">10128PSC</a>	N34°01'09.24588"	W81°08'12.01007"	58.516	0.012	
<a href="#">10205MSC</a>	N34°05'50.39945"	W81°10'23.47042"	68.086	0.014	
<a href="#">26W113</a>	N34°01'46.50388"	W81°06'09.89713"	33.331	0.013	
<a href="#">26W150</a>	N33°59'48.76619"	W81°06'30.13729"	55.299	0.012	
<a href="#">26W20</a>	N34°05'49.10388"	W81°10'19.96178"	67.446	0.013	
<a href="#">26W60</a>	N34°04'01.39867"	W81°08'30.03354"	48.119	0.014	
<a href="#">36A</a>	N34°02'39.04308"	W81°07'11.89564"	40.020	?	ENe
<a href="#">7757D</a>	N34°02'42.02993"	W81°06'59.11272"	40.043	0.009	
<a href="#">COLA</a>	N34°04'51.55820"	W81°07'18.01575"	83.000	0.012	
<a href="#">PLM01</a>	N34°05'22.93181"	W81°11'06.03752"	82.994	0.012	
<a href="#">PLM02</a>	N34°05'52.57432"	W81°10'04.20721"	69.713	0.011	
<a href="#">PLM03</a>	N34°03'17.56183"	W81°09'39.37818"	41.173	0.011	
<a href="#">PLM04</a>	N34°04'07.21496"	W81°08'13.35858"	59.864	0.010	

<a href="#">PLM05</a>	N34°00'48.43279"	W81°09'35.85519"	62.659	0.011	
<a href="#">PLM06</a>	N34°02'06.99909"	W81°07'49.41941"	47.055	0.009	
<a href="#">PLM07</a>	N34°02'37.59337"	W81°05'57.81004"	65.604	0.010	
<a href="#">PLM08</a>	N34°03'30.74683"	W81°04'08.90162"	48.042	0.011	
<a href="#">PLM09</a>	N34°00'18.94831"	W81°08'45.58015"	85.989	0.011	
<a href="#">PLM10</a>	N34°01'51.65624"	W81°06'31.75790"	39.516	0.010	
<a href="#">PLM11</a>	N34°01'53.69702"	W81°05'15.02330"	67.062	0.011	
<a href="#">PLM12</a>	N34°02'49.71730"	W81°03'23.18085"	73.706	0.011	
<a href="#">PLM13</a>	N33°59'44.67536"	W81°07'02.58065"	65.836	0.011	
<a href="#">PLM14</a>	N33°59'57.45044"	W81°05'52.07111"	48.768	0.011	
<a href="#">PLM15</a>	N34°00'22.00921"	W81°05'05.18889"	51.762	0.011	
<a href="#">PLM16</a>	N34°00'58.10926"	W81°04'50.40621"	39.812	0.011	

### Adjusted ECEF Coordinates

Point ID	X (Meter)	X Error (Meter)	Y (Meter)	Y Error (Meter)	Z (Meter)	Z Error (Meter)	3D Error (Meter)	Constraint
<a href="#">126E25</a>	820645.448	0.017	-5228448.321	0.014	3547679.062	0.016	0.027	
<a href="#">26E109</a>	818067.696	0.016	-5227671.678	0.014	3549427.978	0.015	0.026	
<a href="#">26E60</a>	814462.197	0.018	-5226061.627	0.015	3552621.243	0.017	0.029	
<a href="#">10103PSC</a>	811318.621	0.019	-5224564.337	0.016	3555569.564	0.017	0.030	
<a href="#">10104PSC</a>	811046.293	0.017	-5224654.822	0.015	3555499.199	0.016	0.028	
<a href="#">10109PSC</a>	814324.899	0.017	-5226051.379	0.014	3552675.600	0.016	0.027	
<a href="#">10110PSC</a>	814524.803	0.017	-5225960.172	0.014	3552765.386	0.016	0.027	
<a href="#">10111PSC</a>	816588.882	0.010	-5227168.174	0.008	3550516.430	0.009	0.016	
<a href="#">10112PSC</a>	816952.960	0.010	-5227068.793	0.008	3550564.774	0.009	0.016	
<a href="#">10115PSC</a>	818355.810	0.018	-5227730.739	0.015	3549279.763	0.017	0.029	
<a href="#">10116PSC</a>	818076.917	0.018	-5227724.975	0.015	3549341.871	0.017	0.029	
<a href="#">10119PSCZOO</a>	821008.456	0.018	-5228516.714	0.015	3547503.571	0.017	0.029	
<a href="#">10120PSC</a>	820981.405	0.017	-5228395.367	0.014	3547696.164	0.016	0.027	
<a href="#">10121PSC</a>	821497.534	0.016	-5225941.067	0.014	3551150.739	0.016	0.027	
<a href="#">10122PSC</a>	821719.313	0.016	-5225829.788	0.014	3551255.168	0.016	0.027	
<a href="#">10127PSC</a>	815268.613	0.016	-5229020.520	0.014	3548143.125	0.015	0.026	
<a href="#">10128PSC</a>	815398.561	0.016	-5228918.622	0.013	3548247.929	0.015	0.025	
<a href="#">10205MSC</a>	811322.555	0.018	-5224650.942	0.016	3555430.316	0.017	0.030	
<a href="#">26W113</a>	818391.466	0.017	-5227779.723	0.014	3549185.297	0.016	0.027	
<a href="#">26W150</a>	818194.951	0.016	-5229882.908	0.014	3546190.521	0.015	0.026	
<a href="#">26W20</a>	811414.781	0.017	-5224658.730	0.015	3555396.900	0.016	0.028	
<a href="#">26W60</a>	814483.048	0.018	-5226047.257	0.015	3552637.432	0.017	0.029	
<a href="#">36A</a>	816681.060	?	-5227135.704	?	3550530.541	?	?	ENe
<a href="#">7757D</a>	816997.048	0.013	-5227034.195	0.010	3550606.812	0.012	0.020	
<a href="#">COLA</a>	816178.501	0.015	-5224935.573	0.013	3553937.167	0.014	0.024	
<a href="#">PLM01</a>	810318.914	0.014	-5225299.277	0.013	3554737.791	0.014	0.024	

<a href="#">PLM02</a>	811804.924	0.014	-5224539.357	0.012	3555486.721	0.013	0.023	
<a href="#">PLM03</a>	812841.404	0.014	-5227062.616	0.012	3551514.554	0.013	0.022	
<a href="#">PLM04</a>	814891.563	0.013	-5225891.816	0.011	3552792.468	0.013	0.022	
<a href="#">PLM05</a>	813328.637	0.014	-5229607.535	0.012	3547718.691	0.013	0.022	
<a href="#">PLM06</a>	815816.239	0.013	-5227836.022	0.011	3549716.316	0.012	0.020	
<a href="#">PLM07</a>	818565.624	0.013	-5226887.683	0.011	3550507.851	0.012	0.021	
<a href="#">PLM08</a>	821180.698	0.014	-5225534.445	0.012	3551854.981	0.013	0.023	
<a href="#">PLM09</a>	814684.467	0.014	-5229930.331	0.012	3546978.657	0.013	0.022	
<a href="#">PLM10</a>	817824.461	0.013	-5227783.717	0.011	3549320.325	0.012	0.021	
<a href="#">PLM11</a>	819767.328	0.014	-5227466.895	0.012	3549387.852	0.013	0.023	
<a href="#">PLM12</a>	822452.331	0.014	-5226072.598	0.012	3550821.922	0.013	0.023	
<a href="#">PLM13</a>	817384.564	0.014	-5230089.801	0.012	3546091.911	0.013	0.023	
<a href="#">PLM14</a>	819136.120	0.014	-5229578.653	0.012	3546408.707	0.014	0.023	
<a href="#">PLM15</a>	820259.542	0.014	-5228976.726	0.012	3547037.699	0.013	0.023	
<a href="#">PLM16</a>	820536.292	0.014	-5228293.485	0.012	3547953.046	0.013	0.023	

### Error Ellipse Components

Point ID	Semi-major axis (Meter)	Semi-minor axis (Meter)	Azimuth
<a href="#">`126E25</a>	0.021	0.021	3°
<a href="#">`26E109</a>	0.021	0.021	1°
<a href="#">`26E60</a>	0.023	0.023	2°
<a href="#">10103PSC</a>	0.023	0.023	3°
<a href="#">10104PSC</a>	0.022	0.022	2°
<a href="#">10109PSC</a>	0.021	0.021	2°
<a href="#">10110PSC</a>	0.021	0.021	2°
<a href="#">10111PSC</a>	0.013	0.013	3°
<a href="#">10112PSC</a>	0.013	0.013	2°
<a href="#">10115PSC</a>	0.023	0.023	0°
<a href="#">10116PSC</a>	0.023	0.023	0°
<a href="#">10119PSCZOO</a>	0.022	0.022	4°
<a href="#">10120PSC</a>	0.021	0.021	6°
<a href="#">10121PSC</a>	0.021	0.021	11°
<a href="#">10122PSC</a>	0.021	0.021	14°
<a href="#">10127PSC</a>	0.020	0.020	147°
<a href="#">10128PSC</a>	0.020	0.020	179°
<a href="#">10205MSC</a>	0.023	0.023	3°
<a href="#">26W113</a>	0.021	0.021	0°
<a href="#">26W150</a>	0.020	0.020	3°
<a href="#">26W20</a>	0.022	0.021	3°
<a href="#">26W60</a>	0.023	0.023	2°
<a href="#">7757D</a>	0.016	0.016	3°



<a href="#">COLA</a>	0.019	0.018	3°
<a href="#">PLM01</a>	0.018	0.018	0°
<a href="#">PLM02</a>	0.018	0.018	2°
<a href="#">PLM03</a>	0.017	0.017	3°
<a href="#">PLM04</a>	0.017	0.017	4°
<a href="#">PLM05</a>	0.017	0.017	1°
<a href="#">PLM06</a>	0.016	0.016	4°
<a href="#">PLM07</a>	0.016	0.016	4°
<a href="#">PLM08</a>	0.018	0.018	2°
<a href="#">PLM09</a>	0.017	0.017	2°
<a href="#">PLM10</a>	0.017	0.016	4°
<a href="#">PLM11</a>	0.018	0.018	4°
<a href="#">PLM12</a>	0.018	0.018	3°
<a href="#">PLM13</a>	0.018	0.018	3°
<a href="#">PLM14</a>	0.018	0.018	2°
<a href="#">PLM15</a>	0.018	0.018	3°
<a href="#">PLM16</a>	0.018	0.018	3°

#### Adjusted GNSS Observations

Observation ID		Observation	A-posteriori Error	Residual	Standardized Residual
<a href="#">10122PSC --&gt; 10121PSC (PV82)</a>	<b>Az.</b>	241°24'59"	7.311 sec	0.411 sec	0.175
	<b>ΔHt.</b>	4.068 m	0.007 m	-0.006 m	-3.351
	<b>Ellip Dist.</b>	269.179 m	0.010 m	-0.003 m	-1.040
<a href="#">10122PSC --&gt; PLM12 (PV83)</a>	<b>Az.</b>	129°03'35"	2.252 sec	0.733 sec	0.994
	<b>ΔHt.</b>	50.538 m	0.008 m	0.008 m	3.340
	<b>Ellip Dist.</b>	883.973 m	0.010 m	-0.001 m	-0.236
<a href="#">10121PSC --&gt; PLM08 (PV147)</a>	<b>Az.</b>	343°21'35"	2.272 sec	0.681 sec	0.921
	<b>ΔHt.</b>	20.806 m	0.008 m	-0.008 m	-3.335
	<b>Ellip Dist.</b>	872.491 m	0.010 m	0.001 m	0.404
<a href="#">PLM11 --&gt; PLM16 (PV123)</a>	<b>Az.</b>	159°45'26"	0.812 sec	-0.391 sec	-0.780
	<b>ΔHt.</b>	-27.250 m	0.006 m	-0.010 m	-2.719
	<b>Ellip Dist.</b>	1825.493 m	0.007 m	-0.002 m	-0.481
<a href="#">PLM16 --&gt; PLM12 (PV33)</a>	<b>Az.</b>	33°02'40"	0.378 sec	0.211 sec	0.959
	<b>ΔHt.</b>	33.894 m	0.008 m	-0.013 m	-2.588
	<b>Ellip Dist.</b>	4102.748 m	0.008 m	0.001 m	0.314

<a href="#">PLM06 --&gt; PLM03 (PV114)</a>	<b>Az.</b>	307°38'14"	0.378 sec	0.070 sec	0.257
	<b>ΔHt.</b>	-5.882 m	0.006 m	-0.011 m	-2.446
	<b>Ellip Dist.</b>	3561.075 m	0.007 m	0.005 m	0.991
<a href="#">PLM07 --&gt; PLM08 (PV54)</a>	<b>Az.</b>	59°36'23"	0.427 sec	0.226 sec	0.766
	<b>ΔHt.</b>	-17.562 m	0.006 m	0.009 m	2.408
	<b>Ellip Dist.</b>	3237.921 m	0.007 m	0.005 m	1.160
<a href="#">PLM10 --&gt; PLM14 (PV129)</a>	<b>Az.</b>	163°51'28"	0.360 sec	0.137 sec	0.512
	<b>ΔHt.</b>	9.253 m	0.005 m	-0.009 m	-2.291
	<b>Ellip Dist.</b>	3663.263 m	0.006 m	-0.002 m	-0.376
<a href="#">PLM05 --&gt; PLM03 (PV8)</a>	<b>Az.</b>	358°52'25"	0.303 sec	-0.205 sec	-0.985
	<b>ΔHt.</b>	-21.486 m	0.007 m	0.004 m	0.823
	<b>Ellip Dist.</b>	4595.844 m	0.007 m	-0.010 m	-2.127
<a href="#">PLM01 --&gt; PLM02 (PV44)</a>	<b>Az.</b>	60°02'32"	0.807 sec	-0.480 sec	-0.948
	<b>ΔHt.</b>	-13.281 m	0.007 m	-0.010 m	-2.107
	<b>Ellip Dist.</b>	1829.301 m	0.007 m	0.004 m	0.877
<a href="#">PLM01 --&gt; PLM05 (PV77)</a>	<b>Az.</b>	164°41'55"	0.176 sec	0.070 sec	0.669
	<b>ΔHt.</b>	-20.335 m	0.009 m	0.005 m	0.682
	<b>Ellip Dist.</b>	8768.416 m	0.008 m	0.010 m	2.099
<a href="#">36A --&gt; 10112PSC (PV233)</a>	<b>Az.</b>	81°27'46"	7.428 sec	0.642 sec	0.352
	<b>ΔHt.</b>	-0.828 m	0.007 m	0.003 m	1.984
	<b>Ellip Dist.</b>	282.093 m	0.010 m	-0.001 m	-0.322
<a href="#">7757D --&gt; 10112PSC (PV273)</a>	<b>Az.</b>	224°16'26"	29.905 sec	0.630 sec	0.086
	<b>ΔHt.</b>	-0.851 m	0.007 m	-0.003 m	-1.984
	<b>Ellip Dist.</b>	70.051 m	0.010 m	-0.001 m	-0.469
<a href="#">10111PSC --&gt; PLM06 (PV320)</a>	<b>Az.</b>	221°54'08"	1.620 sec	0.026 sec	0.064
	<b>ΔHt.</b>	0.142 m	0.008 m	-0.004 m	-1.984
	<b>Ellip Dist.</b>	1297.365 m	0.010 m	-0.001 m	-0.472
<a href="#">10111PSC --&gt; 36A (PV232)</a>	<b>Az.</b>	77°16'50"	21.297 sec	1.709 sec	0.326
	<b>ΔHt.</b>	-6.893 m	0.007 m	0.004 m	1.984
	<b>Ellip Dist.</b>	98.502 m	0.010 m	-0.001 m	-0.345

<a href="#">7757D --&gt; PLM07 (PV274)</a>	<b>Az.</b>	94°57'50"	1.334 sec	0.137 sec	0.415
	<b>ΔHt.</b>	25.561 m	0.008 m	0.004 m	1.984
	<b>Ellip Dist.</b>	1578.288 m	0.010 m	-0.001 m	-0.230
<a href="#">10127PSC --&gt; 10128PSC (PV84)</a>	<b>Az.</b>	47°30'32"	10.143 sec	0.971 sec	0.292
	<b>ΔHt.</b>	-8.222 m	0.007 m	-0.004 m	-1.981
	<b>Ellip Dist.</b>	195.410 m	0.010 m	-0.005 m	-1.694
<a href="#">10127PSC --&gt; PLM05 (PV85)</a>	<b>Az.</b>	255°46'06"	0.974 sec	0.365 sec	1.079
	<b>ΔHt.</b>	-4.080 m	0.008 m	0.006 m	1.969
	<b>Ellip Dist.</b>	2070.781 m	0.010 m	-0.004 m	-1.284
<a href="#">`26E60 --&gt; 26W60 (PV197)</a>	<b>Az.</b>	49°23'02"	69.807 sec	2.429 sec	0.142
	<b>ΔHt.</b>	-0.033 m	0.007 m	-0.003 m	-1.949
	<b>Ellip Dist.</b>	30.056 m	0.010 m	-0.001 m	-0.341
<a href="#">10110PSC --&gt; 26W60 (PV227)</a>	<b>Az.</b>	199°57'08"	13.088 sec	-0.142 sec	-0.044
	<b>ΔHt.</b>	-5.724 m	0.007 m	0.003 m	1.949
	<b>Ellip Dist.</b>	160.207 m	0.010 m	-0.001 m	-0.365
<a href="#">10109PSC --&gt; `26E60 (PV261)</a>	<b>Az.</b>	115°00'22"	14.191 sec	1.278 sec	0.367
	<b>ΔHt.</b>	-4.549 m	0.007 m	-0.003 m	-1.949
	<b>Ellip Dist.</b>	147.950 m	0.010 m	0.000 m	-0.010
<a href="#">10110PSC --&gt; PLM04 (PV228)</a>	<b>Az.</b>	85°36'36"	5.622 sec	0.438 sec	0.317
	<b>ΔHt.</b>	6.022 m	0.008 m	-0.004 m	-1.948
	<b>Ellip Dist.</b>	374.006 m	0.010 m	0.000 m	-0.185
<a href="#">10109PSC --&gt; PLM03 (PV304)</a>	<b>Az.</b>	229°19'25"	0.981 sec	0.034 sec	0.140
	<b>ΔHt.</b>	-11.527 m	0.008 m	0.004 m	1.947
	<b>Ellip Dist.</b>	2138.033 m	0.010 m	-0.001 m	-0.329
<a href="#">10128PSC --&gt; PLM06 (PV150)</a>	<b>Az.</b>	18°02'16"	1.056 sec	-0.198 sec	-0.577
	<b>ΔHt.</b>	-11.461 m	0.007 m	-0.004 m	-1.944
	<b>Ellip Dist.</b>	1871.483 m	0.010 m	-0.005 m	-1.580
<a href="#">PLM12 --&gt; PLM11 (PV137)</a>	<b>Az.</b>	238°58'28"	0.446 sec	0.071 sec	0.260
	<b>ΔHt.</b>	-6.644 m	0.007 m	-0.009 m	-1.920
	<b>Ellip Dist.</b>	3348.069 m	0.007 m	0.000 m	0.013

<a href="#">COLA --&gt; PLM08 (PV338)</a>	<b>Az.</b>	117°09'54"	0.303 sec	-0.157 sec	-1.019
	<b>ΔHt.</b>	-34.958 m	0.007 m	-0.004 m	-1.035
	<b>Ellip Dist.</b>	5451.082 m	0.008 m	-0.007 m	-1.789
<a href="#">PLM06 --&gt; PLM10 (PV115)</a>	<b>Az.</b>	103°20'35"	0.554 sec	-0.049 sec	-0.096
	<b>ΔHt.</b>	-7.540 m	0.005 m	-0.007 m	-1.654
	<b>Ellip Dist.</b>	2047.531 m	0.005 m	-0.003 m	-0.572
<a href="#">PLM06 --&gt; PLM10 (PV7)</a>	<b>Az.</b>	103°20'35"	0.554 sec	0.587 sec	1.157
	<b>ΔHt.</b>	-7.540 m	0.005 m	0.007 m	1.638
	<b>Ellip Dist.</b>	2047.531 m	0.005 m	0.000 m	0.078
<a href="#">PLM10 --&gt; PLM15 (PV134)</a>	<b>Az.</b>	141°11'25"	0.339 sec	-0.279 sec	-0.970
	<b>ΔHt.</b>	12.246 m	0.005 m	0.007 m	1.634
	<b>Ellip Dist.</b>	3544.424 m	0.006 m	0.002 m	0.385
<a href="#">PLM04 --&gt; PLM08 (PV109)</a>	<b>Az.</b>	100°08'36"	0.220 sec	0.236 sec	1.559
	<b>ΔHt.</b>	-11.822 m	0.007 m	-0.001 m	-0.194
	<b>Ellip Dist.</b>	6368.594 m	0.007 m	0.000 m	0.055
<a href="#">PLM04 --&gt; PLM07 (PV118)</a>	<b>Az.</b>	128°27'08"	0.264 sec	-0.208 sec	-0.893
	<b>ΔHt.</b>	5.740 m	0.005 m	-0.003 m	-0.510
	<b>Ellip Dist.</b>	4439.541 m	0.006 m	-0.008 m	-1.540
<a href="#">PLM09 --&gt; PLM06 (PV108)</a>	<b>Az.</b>	23°23'54"	0.363 sec	-0.231 sec	-0.851
	<b>ΔHt.</b>	-38.934 m	0.006 m	0.007 m	1.485
	<b>Ellip Dist.</b>	3627.674 m	0.006 m	0.002 m	0.407
<a href="#">PLM13 --&gt; PLM10 (PV278)</a>	<b>Az.</b>	11°25'31"	0.309 sec	-0.012 sec	-0.047
	<b>ΔHt.</b>	-26.321 m	0.005 m	-0.006 m	-1.452
	<b>Ellip Dist.</b>	3991.646 m	0.006 m	-0.001 m	-0.171
<a href="#">PLM02 --&gt; PLM04 (PV12)</a>	<b>Az.</b>	138°47'33"	0.283 sec	0.187 sec	0.795
	<b>ΔHt.</b>	-9.849 m	0.005 m	-0.006 m	-1.318
	<b>Ellip Dist.</b>	4314.512 m	0.006 m	-0.007 m	-1.445
<a href="#">PLM08 --&gt; PLM12 (PV49)</a>	<b>Az.</b>	137°08'59"	0.872 sec	-0.410 sec	-0.765
	<b>ΔHt.</b>	25.664 m	0.008 m	-0.009 m	-1.429
	<b>Ellip Dist.</b>	1724.283 m	0.007 m	0.002 m	0.349



<a href="#">PLM06 --&gt; PLM07 (PV104)</a>	<b>Az.</b>	71°45'57"	0.398 sec	0.046 sec	0.136
	<b>ΔHt.</b>	18.549 m	0.005 m	0.004 m	0.860
	<b>Ellip Dist.</b>	3014.048 m	0.006 m	0.007 m	1.391
<a href="#">COLA --&gt; PLM04 (PV330)</a>	<b>Az.</b>	226°05'16"	0.762 sec	-0.600 sec	-1.303
	<b>ΔHt.</b>	-23.136 m	0.006 m	0.000 m	0.128
	<b>Ellip Dist.</b>	1969.854 m	0.007 m	-0.001 m	-0.161
<a href="#">PLM09 --&gt; PLM05 (PV17)</a>	<b>Az.</b>	305°09'28"	0.831 sec	-0.055 sec	-0.087
	<b>ΔHt.</b>	-23.329 m	0.006 m	-0.006 m	-1.277
	<b>Ellip Dist.</b>	1577.821 m	0.006 m	-0.001 m	-0.201
<a href="#">PLM07 --&gt; PLM10 (PV119)</a>	<b>Az.</b>	211°36'13"	0.668 sec	-0.297 sec	-0.472
	<b>ΔHt.</b>	-26.088 m	0.005 m	0.006 m	1.266
	<b>Ellip Dist.</b>	1661.834 m	0.005 m	0.000 m	-0.055
<a href="#">PLM14 --&gt; PLM15 (PV142)</a>	<b>Az.</b>	57°49'39"	0.927 sec	0.244 sec	0.353
	<b>ΔHt.</b>	2.993 m	0.005 m	0.000 m	-0.044
	<b>Ellip Dist.</b>	1421.261 m	0.006 m	-0.006 m	-1.250
<a href="#">PLM13 --&gt; PLM10 (PV90)</a>	<b>Az.</b>	11°25'31"	0.309 sec	0.252 sec	0.996
	<b>ΔHt.</b>	-26.321 m	0.005 m	0.005 m	1.214
	<b>Ellip Dist.</b>	3991.646 m	0.006 m	0.002 m	0.309
<a href="#">PLM07 --&gt; PLM11 (PV59)</a>	<b>Az.</b>	140°56'19"	0.796 sec	-0.642 sec	-1.169
	<b>ΔHt.</b>	1.458 m	0.005 m	-0.002 m	-0.536
	<b>Ellip Dist.</b>	1741.813 m	0.007 m	-0.003 m	-0.741
<a href="#">PLM03 --&gt; PLM02 (PV23)</a>	<b>Az.</b>	352°24'36"	0.280 sec	-0.234 sec	-1.159
	<b>ΔHt.</b>	28.539 m	0.006 m	0.001 m	0.206
	<b>Ellip Dist.</b>	4818.507 m	0.007 m	-0.002 m	-0.495
<a href="#">PLM16 --&gt; PLM10 (PV72)</a>	<b>Az.</b>	302°24'14"	0.435 sec	0.017 sec	0.053
	<b>ΔHt.</b>	-0.297 m	0.006 m	-0.005 m	-1.126
	<b>Ellip Dist.</b>	3079.484 m	0.006 m	0.002 m	0.333
<a href="#">PLM07 --&gt; PLM12 (PV101)</a>	<b>Az.</b>	84°36'26"	0.346 sec	-0.142 sec	-0.589
	<b>ΔHt.</b>	8.102 m	0.007 m	-0.006 m	-1.097
	<b>Ellip Dist.</b>	3983.601 m	0.007 m	-0.005 m	-1.117

<a href="#">PLM14 --&gt; PLM13 (PV21)</a>	<b>Az.</b>	257°43'59"	0.767 sec	0.452 sec	0.878
	<b>ΔHt.</b>	17.068 m	0.006 m	-0.006 m	-1.115
	<b>Ellip Dist.</b>	1851.817 m	0.007 m	0.000 m	-0.015
<a href="#">10120PSC --&gt; PLM16 (PV178)</a>	<b>Az.</b>	305°59'15"	3.947 sec	0.915 sec	0.834
	<b>ΔHt.</b>	3.056 m	0.007 m	-0.002 m	-1.105
	<b>Ellip Dist.</b>	523.910 m	0.010 m	-0.001 m	-0.381
<a href="#">126E25 --&gt; PLM15 (PV315)</a>	<b>Az.</b>	210°22'40"	2.242 sec	0.286 sec	0.464
	<b>ΔHt.</b>	24.398 m	0.007 m	0.002 m	1.098
	<b>Ellip Dist.</b>	915.901 m	0.010 m	0.002 m	0.780
<a href="#">126E25 --&gt; 10119PSCZOO (PV268)</a>	<b>Az.</b>	121°40'38"	5.018 sec	-1.082 sec	-0.787
	<b>ΔHt.</b>	4.510 m	0.007 m	-0.002 m	-1.096
	<b>Ellip Dist.</b>	408.934 m	0.010 m	0.001 m	0.450
<a href="#">10120PSC --&gt; 10119PSCZOO (PV269)</a>	<b>Az.</b>	178°01'28"	8.944 sec	1.982 sec	0.809
	<b>ΔHt.</b>	-4.883 m	0.007 m	0.002 m	1.095
	<b>Ellip Dist.</b>	229.182 m	0.010 m	0.001 m	0.404
<a href="#">PLM06 --&gt; PLM05 (PV75)</a>	<b>Az.</b>	228°27'01"	0.354 sec	-0.086 sec	-0.317
	<b>ΔHt.</b>	15.604 m	0.006 m	0.000 m	0.096
	<b>Ellip Dist.</b>	3649.172 m	0.006 m	0.005 m	1.089
<a href="#">PLM09 --&gt; PLM13 (PV275)</a>	<b>Az.</b>	111°46'11"	0.540 sec	0.104 sec	0.330
	<b>ΔHt.</b>	-20.152 m	0.007 m	0.004 m	1.074
	<b>Ellip Dist.</b>	2846.345 m	0.007 m	0.004 m	1.014
<a href="#">PLM10 --&gt; PLM11 (PV139)</a>	<b>Az.</b>	88°09'52"	0.684 sec	0.521 sec	1.058
	<b>ΔHt.</b>	27.547 m	0.005 m	0.000 m	-0.120
	<b>Ellip Dist.</b>	1969.479 m	0.007 m	0.001 m	0.175
<a href="#">PLM10 --&gt; PLM09 (PV107)</a>	<b>Az.</b>	230°15'05"	0.297 sec	0.133 sec	0.608
	<b>ΔHt.</b>	46.473 m	0.006 m	0.005 m	1.050
	<b>Ellip Dist.</b>	4466.360 m	0.006 m	0.002 m	0.525
<a href="#">PLM02 --&gt; PLM04 (PV81)</a>	<b>Az.</b>	138°47'33"	0.283 sec	-0.065 sec	-0.278
	<b>ΔHt.</b>	-9.849 m	0.005 m	0.005 m	1.005
	<b>Ellip Dist.</b>	4314.512 m	0.006 m	0.004 m	0.758

<a href="#">PLM07 --&gt; PLM10 (PV42)</a>	<b>Az.</b>	211°36'13"	0.668 sec	0.457 sec	0.728
	<b>ΔHt.</b>	-26.088 m	0.005 m	-0.004 m	-0.986
	<b>Ellip Dist.</b>	1661.834 m	0.005 m	0.001 m	0.188
<a href="#">PLM09 --&gt; PLM05 (PV106)</a>	<b>Az.</b>	305°09'28"	0.831 sec	-0.252 sec	-0.404
	<b>ΔHt.</b>	-23.329 m	0.006 m	-0.001 m	-0.193
	<b>Ellip Dist.</b>	1577.821 m	0.006 m	0.005 m	0.972
<a href="#">PLM15 --&gt; PLM16 (PV10)</a>	<b>Az.</b>	18°49'44"	1.254 sec	-0.076 sec	-0.097
	<b>ΔHt.</b>	-11.949 m	0.006 m	0.001 m	0.273
	<b>Ellip Dist.</b>	1175.205 m	0.007 m	-0.004 m	-0.968
<a href="#">PLM14 --&gt; PLM15 (PV20)</a>	<b>Az.</b>	57°49'39"	0.927 sec	-0.339 sec	-0.484
	<b>ΔHt.</b>	2.993 m	0.005 m	-0.004 m	-0.962
	<b>Ellip Dist.</b>	1421.261 m	0.006 m	0.002 m	0.360
<a href="#">PLM10 --&gt; PLM15 (PV144)</a>	<b>Az.</b>	141°11'25"	0.339 sec	0.118 sec	0.410
	<b>ΔHt.</b>	12.246 m	0.005 m	-0.004 m	-0.947
	<b>Ellip Dist.</b>	3544.424 m	0.006 m	0.002 m	0.307
<a href="#">PLM06 --&gt; PLM04 (PV15)</a>	<b>Az.</b>	350°35'26"	0.336 sec	-0.133 sec	-0.498
	<b>ΔHt.</b>	12.809 m	0.006 m	0.000 m	0.116
	<b>Ellip Dist.</b>	3754.634 m	0.006 m	0.004 m	0.831
<a href="#">COLA --&gt; PLM02 (PV326)</a>	<b>Az.</b>	293°49'26"	0.344 sec	-0.135 sec	-0.730
	<b>ΔHt.</b>	-13.287 m	0.007 m	0.003 m	0.829
	<b>Ellip Dist.</b>	4656.778 m	0.008 m	-0.001 m	-0.349
<a href="#">PLM03 --&gt; PLM01 (PV79)</a>	<b>Az.</b>	330°05'55"	0.287 sec	0.073 sec	0.326
	<b>ΔHt.</b>	41.821 m	0.007 m	-0.004 m	-0.785
	<b>Ellip Dist.</b>	4456.392 m	0.006 m	-0.001 m	-0.111
<a href="#">10104PSC --&gt; 10103PSC (PV256)</a>	<b>Az.</b>	73°17'09"	7.118 sec	-1.322 sec	-0.768
	<b>ΔHt.</b>	0.005 m	0.007 m	0.001 m	0.776
	<b>Ellip Dist.</b>	295.464 m	0.010 m	0.000 m	0.094
<a href="#">26W20 --&gt; 10205MSC (PV195)</a>	<b>Az.</b>	293°56'05"	21.395 sec	-3.326 sec	-0.642
	<b>ΔHt.</b>	0.640 m	0.007 m	-0.001 m	-0.775
	<b>Ellip Dist.</b>	98.399 m	0.010 m	-0.001 m	-0.429

<a href="#">10103PSC --&gt; 10205MSC (PV223)</a>	<b>Az.</b>	183°17'19"	12.845 sec	0.545 sec	0.175
	<b>ΔHt.</b>	-6.697 m	0.007 m	0.001 m	0.775
	<b>Ellip Dist.</b>	163.892 m	0.010 m	-0.002 m	-0.752
<a href="#">10104PSC --&gt; PLM01 (PV299)</a>	<b>Az.</b>	221°28'31"	1.706 sec	-0.249 sec	-0.602
	<b>ΔHt.</b>	8.215 m	0.007 m	-0.001 m	-0.774
	<b>Ellip Dist.</b>	1234.520 m	0.010 m	0.001 m	0.482
<a href="#">26W20 --&gt; PLM02 (PV175)</a>	<b>Az.</b>	75°10'04"	5.045 sec	-0.940 sec	-0.768
	<b>ΔHt.</b>	2.267 m	0.007 m	0.001 m	0.773
	<b>Ellip Dist.</b>	417.756 m	0.010 m	0.000 m	0.065
<a href="#">26E109 --&gt; PLM10 (PV311)</a>	<b>Az.</b>	243°12'14"	7.286 sec	-0.568 sec	-0.320
	<b>ΔHt.</b>	0.325 m	0.007 m	0.001 m	0.598
	<b>Ellip Dist.</b>	288.625 m	0.010 m	0.000 m	0.188
<a href="#">26W113 --&gt; 10115PSC (PV230)</a>	<b>Az.</b>	345°41'51"	18.759 sec	-0.524 sec	-0.115
	<b>ΔHt.</b>	8.189 m	0.007 m	0.001 m	0.598
	<b>Ellip Dist.</b>	111.926 m	0.010 m	-0.001 m	-0.352
<a href="#">10116PSC --&gt; 10115PSC (PV266)</a>	<b>Az.</b>	106°00'24"	7.358 sec	-0.649 sec	-0.362
	<b>ΔHt.</b>	5.701 m	0.007 m	-0.001 m	-0.598
	<b>Ellip Dist.</b>	285.724 m	0.010 m	0.000 m	-0.079
<a href="#">26W113 --&gt; PLM11 (PV231)</a>	<b>Az.</b>	81°02'54"	1.486 sec	-0.132 sec	-0.361
	<b>ΔHt.</b>	33.731 m	0.008 m	-0.001 m	-0.598
	<b>Ellip Dist.</b>	1425.032 m	0.010 m	0.000 m	0.081
<a href="#">26E109 --&gt; 10116PSC (PV265)</a>	<b>Az.</b>	179°30'35"	20.683 sec	-0.135 sec	-0.027
	<b>ΔHt.</b>	-3.371 m	0.007 m	-0.001 m	-0.598
	<b>Ellip Dist.</b>	101.629 m	0.010 m	-0.001 m	-0.369
<a href="#">PLM04 --&gt; PLM07 (PV37)</a>	<b>Az.</b>	128°27'08"	0.264 sec	0.050 sec	0.216
	<b>ΔHt.</b>	5.740 m	0.005 m	-0.003 m	-0.555
	<b>Ellip Dist.</b>	4439.541 m	0.006 m	0.000 m	-0.048
<a href="#">26W150 --&gt; PLM14 (PV152)</a>	<b>Az.</b>	74°40'45"	1.771 sec	-0.379 sec	-0.507
	<b>ΔHt.</b>	-6.530 m	0.007 m	0.001 m	0.208
	<b>Ellip Dist.</b>	1012.876 m	0.009 m	-0.002 m	-0.411

<a href="#">26W150 --&gt; PLM13 (PV71)</a>	<b>Az.</b>	261°23'39"	2.133 sec	-0.411 sec	-0.455
	<b>ΔHt.</b>	10.538 m	0.007 m	-0.001 m	-0.209
	<b>Ellip Dist.</b>	842.099 m	0.009 m	-0.002 m	-0.469
<a href="#">PLM03 --&gt; PLM01 (PV29)</a>	<b>Az.</b>	330°05'55"	0.287 sec	-0.105 sec	-0.467
	<b>ΔHt.</b>	41.821 m	0.007 m	0.000 m	-0.077
	<b>Ellip Dist.</b>	4456.392 m	0.006 m	-0.002 m	-0.384
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<b>Az.</b>	235°15'46"	0.480 sec	-0.122 sec	-0.332
	<b>ΔHt.</b>	-18.691 m	0.005 m	0.000 m	-0.105
	<b>Ellip Dist.</b>	2684.497 m	0.006 m	-0.002 m	-0.345

### Covariance Terms

From Point	To Point		Components	A-posteriori Error	Horiz. Precision (Ratio)	3D Precision (Ratio)
<a href="#">126E25</a>	<a href="#">10119PSCZOO</a>	<b>Az.</b>	121°40'38"	5.026 sec	1 : 41153	1 : 41156
		<b>ΔHt.</b>	4.510 m	0.007 m		
		<b>ΔElev.</b>	4.520 m	0.007 m		
		<b>Ellip Dist.</b>	408.934 m	0.010 m		
<a href="#">126E109</a>	<a href="#">10116PSC</a>	<b>Az.</b>	179°30'35"	20.645 sec	1 : 9921	1 : 9929
		<b>ΔHt.</b>	-3.371 m	0.007 m		
		<b>ΔElev.</b>	-3.369 m	0.007 m		
		<b>Ellip Dist.</b>	101.629 m	0.010 m		
<a href="#">126E60</a>	<a href="#">10109PSC</a>	<b>Az.</b>	295°00'25"	14.219 sec	1 : 14560	1 : 14569
		<b>ΔHt.</b>	4.549 m	0.007 m		
		<b>ΔElev.</b>	4.546 m	0.007 m		
		<b>Ellip Dist.</b>	147.950 m	0.010 m		
<a href="#">10103PSC</a>	<a href="#">10104PSC</a>	<b>Az.</b>	253°17'15"	7.135 sec	1 : 29016	1 : 29016
		<b>ΔHt.</b>	-0.005 m	0.007 m		
		<b>ΔElev.</b>	-0.008 m	0.007 m		
		<b>Ellip Dist.</b>	295.464 m	0.010 m		
<a href="#">10111PSC</a>	<a href="#">36A</a>	<b>Az.</b>	77°16'50"	21.352 sec	1 : 9703	1 : 9738
		<b>ΔHt.</b>	-6.893 m	0.007 m		
		<b>ΔElev.</b>	-6.892 m	0.007 m		
		<b>Ellip Dist.</b>	98.502 m	0.010 m		
<a href="#">10112PSC</a>	<a href="#">36A</a>	<b>Az.</b>	261°27'52"	7.448 sec	1 : 27824	1 : 27824
		<b>ΔHt.</b>	0.828 m	0.007 m		
		<b>ΔElev.</b>	0.825 m	0.007 m		
		<b>Ellip Dist.</b>	282.093 m	0.010 m		



<a href="#">10112PSC</a>	<a href="#">7757D</a>	<b>Az.</b>	44°16'25"	29.918 sec	1 : 6893	1 : 6894
		<b>ΔHt.</b>	0.851 m	0.007 m		
		<b>ΔElev.</b>	0.851 m	0.007 m		
		<b>Ellip Dist.</b>	70.051 m	0.010 m		
<a href="#">10115PSC</a>	<a href="#">10116PSC</a>	<b>Az.</b>	286°00'30"	7.376 sec	1 : 28106	1 : 28115
		<b>ΔHt.</b>	-5.701 m	0.007 m		
		<b>ΔElev.</b>	-5.707 m	0.007 m		
		<b>Ellip Dist.</b>	285.724 m	0.010 m		
<a href="#">10115PSC</a>	<a href="#">26W113</a>	<b>Az.</b>	165°41'50"	18.730 sec	1 : 10952	1 : 10994
		<b>ΔHt.</b>	-8.189 m	0.007 m		
		<b>ΔElev.</b>	-8.186 m	0.007 m		
		<b>Ellip Dist.</b>	111.926 m	0.010 m		
<a href="#">10120PSC</a>	<a href="#">10119PSCZOO</a>	<b>Az.</b>	178°01'28"	8.927 sec	1 : 22987	1 : 22997
		<b>ΔHt.</b>	-4.883 m	0.007 m		
		<b>ΔElev.</b>	-4.879 m	0.007 m		
		<b>Ellip Dist.</b>	229.182 m	0.010 m		
<a href="#">10121PSC</a>	<a href="#">10122PSC</a>	<b>Az.</b>	61°24'54"	7.324 sec	1 : 28192	1 : 28198
		<b>ΔHt.</b>	-4.068 m	0.007 m		
		<b>ΔElev.</b>	-4.067 m	0.007 m		
		<b>Ellip Dist.</b>	269.179 m	0.010 m		
<a href="#">10128PSC</a>	<a href="#">10127PSC</a>	<b>Az.</b>	227°30'36"	10.150 sec	1 : 20400	1 : 20426
		<b>ΔHt.</b>	8.222 m	0.007 m		
		<b>ΔElev.</b>	8.222 m	0.007 m		
		<b>Ellip Dist.</b>	195.410 m	0.010 m		
<a href="#">10205MSC</a>	<a href="#">10103PSC</a>	<b>Az.</b>	3°17'19"	12.822 sec	1 : 16017	1 : 16040
		<b>ΔHt.</b>	6.697 m	0.007 m		
		<b>ΔElev.</b>	6.695 m	0.007 m		
		<b>Ellip Dist.</b>	163.892 m	0.010 m		
<a href="#">26W20</a>	<a href="#">10205MSC</a>	<b>Az.</b>	293°56'05"	21.438 sec	1 : 9656	1 : 9656
		<b>ΔHt.</b>	0.640 m	0.007 m		
		<b>ΔElev.</b>	0.638 m	0.007 m		
		<b>Ellip Dist.</b>	98.399 m	0.010 m		
<a href="#">26W60</a>	<a href="#">26E60</a>	<b>Az.</b>	229°23'02"	69.865 sec	1 : 2955	1 : 2955
		<b>ΔHt.</b>	0.033 m	0.007 m		
		<b>ΔElev.</b>	0.033 m	0.007 m		
		<b>Ellip Dist.</b>	30.056 m	0.010 m		
<a href="#">26W60</a>	<a href="#">10110PSC</a>	<b>Az.</b>	19°57'07"	13.071 sec	1 : 15718	1 : 15733
		<b>ΔHt.</b>	5.724 m	0.007 m		
		<b>ΔElev.</b>	5.721 m	0.007 m		
		<b>Ellip Dist.</b>	160.207 m	0.010 m		

<a href="#">PLM01</a>	<a href="#">10104PSC</a>	<b>Az.</b>	41°28'13"	1.706 sec	1 : 120747	1 : 120746
		<b>ΔHt.</b>	-8.215 m	0.007 m		
		<b>ΔElev.</b>	-8.217 m	0.007 m		
		<b>Ellip Dist.</b>	1234.520 m	0.010 m		
<a href="#">PLM02</a>	<a href="#">26W20</a>	<b>Az.</b>	255°10'13"	5.057 sec	1 : 40935	1 : 40936
		<b>ΔHt.</b>	-2.267 m	0.007 m		
		<b>ΔElev.</b>	-2.271 m	0.007 m		
		<b>Ellip Dist.</b>	417.756 m	0.010 m		
<a href="#">PLM02</a>	<a href="#">COLA</a>	<b>Az.</b>	113°47'53"	0.345 sec	1 : 600420	1 : 600432
		<b>ΔHt.</b>	13.287 m	0.007 m		
		<b>ΔElev.</b>	13.372 m	0.007 m		
		<b>Ellip Dist.</b>	4656.778 m	0.008 m		
<a href="#">PLM02</a>	<a href="#">PLM01</a>	<b>Az.</b>	240°03'06"	0.809 sec	1 : 256281	1 : 256288
		<b>ΔHt.</b>	13.281 m	0.007 m		
		<b>ΔElev.</b>	13.272 m	0.007 m		
		<b>Ellip Dist.</b>	1829.301 m	0.007 m		
<a href="#">PLM02</a>	<a href="#">PLM03</a>	<b>Az.</b>	172°24'22"	0.280 sec	1 : 732793	1 : 732806
		<b>ΔHt.</b>	-28.539 m	0.006 m		
		<b>ΔElev.</b>	-28.449 m	0.006 m		
		<b>Ellip Dist.</b>	4818.507 m	0.007 m		
<a href="#">PLM02</a>	<a href="#">PLM04</a>	<b>Az.</b>	138°47'33"	0.283 sec	1 : 728247	1 : 728254
		<b>ΔHt.</b>	-9.849 m	0.005 m		
		<b>ΔElev.</b>	-9.758 m	0.005 m		
		<b>Ellip Dist.</b>	4314.512 m	0.006 m		
<a href="#">PLM03</a>	<a href="#">10109PSC</a>	<b>Az.</b>	49°18'49"	0.982 sec	1 : 210312	1 : 210318
		<b>ΔHt.</b>	11.527 m	0.008 m		
		<b>ΔElev.</b>	11.522 m	0.008 m		
		<b>Ellip Dist.</b>	2138.033 m	0.010 m		
<a href="#">PLM03</a>	<a href="#">PLM01</a>	<b>Az.</b>	330°05'55"	0.287 sec	1 : 715394	1 : 715361
		<b>ΔHt.</b>	41.821 m	0.007 m		
		<b>ΔElev.</b>	41.722 m	0.007 m		
		<b>Ellip Dist.</b>	4456.392 m	0.006 m		
<a href="#">PLM03</a>	<a href="#">PLM04</a>	<b>Az.</b>	55°14'58"	0.481 sec	1 : 429600	1 : 429614
		<b>ΔHt.</b>	18.691 m	0.005 m		
		<b>ΔElev.</b>	18.691 m	0.005 m		
		<b>Ellip Dist.</b>	2684.497 m	0.006 m		
<a href="#">PLM04</a>	<a href="#">10110PSC</a>	<b>Az.</b>	265°36'44"	5.638 sec	1 : 36809	1 : 36818
		<b>ΔHt.</b>	-6.022 m	0.008 m		
		<b>ΔElev.</b>	-6.026 m	0.008 m		
		<b>Ellip Dist.</b>	374.006 m	0.010 m		

<a href="#">PLM04</a>	<a href="#">COLA</a>	Az.	46°04'45"	0.762 sec	1 : 270702	1 : 270714
		ΔHt.	23.136 m	0.006 m		
		ΔElev.	23.130 m	0.006 m		
		Ellip Dist.	1969.854 m	0.007 m		
<a href="#">PLM04</a>	<a href="#">PLM07</a>	Az.	128°27'08"	0.264 sec	1 : 781741	1 : 781757
		ΔHt.	5.740 m	0.005 m		
		ΔElev.	5.845 m	0.005 m		
		Ellip Dist.	4439.541 m	0.006 m		
<a href="#">PLM04</a>	<a href="#">PLM08</a>	Az.	100°08'36"	0.220 sec	1 : 943191	1 : 943182
		ΔHt.	-11.822 m	0.007 m		
		ΔElev.	-11.707 m	0.007 m		
		Ellip Dist.	6368.594 m	0.007 m		
<a href="#">PLM05</a>	<a href="#">10127PSC</a>	Az.	75°45'23"	0.976 sec	1 : 210925	1 : 210935
		ΔHt.	4.080 m	0.008 m		
		ΔElev.	4.099 m	0.008 m		
		Ellip Dist.	2070.781 m	0.010 m		
<a href="#">PLM05</a>	<a href="#">PLM01</a>	Az.	344°42'46"	0.176 sec	1 : 1161968	1 : 1161908
		ΔHt.	20.335 m	0.009 m		
		ΔElev.	20.149 m	0.009 m		
		Ellip Dist.	8768.416 m	0.008 m		
<a href="#">PLM05</a>	<a href="#">PLM03</a>	Az.	358°52'25"	0.303 sec	1 : 676095	1 : 676125
		ΔHt.	-21.486 m	0.007 m		
		ΔElev.	-21.573 m	0.007 m		
		Ellip Dist.	4595.844 m	0.007 m		
<a href="#">PLM05</a>	<a href="#">PLM09</a>	Az.	125°09'00"	0.832 sec	1 : 248323	1 : 248351
		ΔHt.	23.329 m	0.006 m		
		ΔElev.	23.364 m	0.006 m		
		Ellip Dist.	1577.821 m	0.006 m		
<a href="#">PLM06</a>	<a href="#">10111PSC</a>	Az.	41°53'49"	1.620 sec	1 : 127149	1 : 127149
		ΔHt.	-0.142 m	0.008 m		
		ΔElev.	-0.149 m	0.008 m		
		Ellip Dist.	1297.365 m	0.010 m		
<a href="#">PLM06</a>	<a href="#">10128PSC</a>	Az.	198°02'28"	1.054 sec	1 : 195420	1 : 195412
		ΔHt.	11.461 m	0.007 m		
		ΔElev.	11.486 m	0.007 m		
		Ellip Dist.	1871.483 m	0.010 m		
<a href="#">PLM06</a>	<a href="#">PLM03</a>	Az.	307°38'14"	0.378 sec	1 : 546463	1 : 546470
		ΔHt.	-5.882 m	0.006 m		
		ΔElev.	-5.964 m	0.006 m		
		Ellip Dist.	3561.075 m	0.007 m		

<a href="#">PLM06</a>	<a href="#">PLM04</a>	<b>Az.</b>	350°35'26"	0.336 sec	1 : 611415	1 : 611421
		<b>ΔHt.</b>	12.809 m	0.006 m		
		<b>ΔElev.</b>	12.727 m	0.006 m		
		<b>Ellip Dist.</b>	3754.634 m	0.006 m		
<a href="#">PLM06</a>	<a href="#">PLM05</a>	<b>Az.</b>	228°27'01"	0.354 sec	1 : 583366	1 : 583370
		<b>ΔHt.</b>	15.604 m	0.006 m		
		<b>ΔElev.</b>	15.609 m	0.006 m		
		<b>Ellip Dist.</b>	3649.172 m	0.006 m		
<a href="#">PLM06</a>	<a href="#">PLM07</a>	<b>Az.</b>	71°45'57"	0.399 sec	1 : 518905	1 : 518922
		<b>ΔHt.</b>	18.549 m	0.005 m		
		<b>ΔElev.</b>	18.572 m	0.005 m		
		<b>Ellip Dist.</b>	3014.048 m	0.006 m		
<a href="#">PLM06</a>	<a href="#">PLM09</a>	<b>Az.</b>	203°24'25"	0.362 sec	1 : 567290	1 : 567320
		<b>ΔHt.</b>	38.934 m	0.006 m		
		<b>ΔElev.</b>	38.973 m	0.006 m		
		<b>Ellip Dist.</b>	3627.674 m	0.006 m		
<a href="#">PLM06</a>	<a href="#">PLM10</a>	<b>Az.</b>	103°20'35"	0.556 sec	1 : 373281	1 : 373285
		<b>ΔHt.</b>	-7.540 m	0.005 m		
		<b>ΔElev.</b>	-7.499 m	0.005 m		
		<b>Ellip Dist.</b>	2047.531 m	0.005 m		
<a href="#">PLM07</a>	<a href="#">7757D</a>	<b>Az.</b>	274°58'25"	1.338 sec	1 : 155012	1 : 155040
		<b>ΔHt.</b>	-25.561 m	0.008 m		
		<b>ΔElev.</b>	-25.587 m	0.008 m		
		<b>Ellip Dist.</b>	1578.288 m	0.010 m		
<a href="#">PLM07</a>	<a href="#">PLM08</a>	<b>Az.</b>	59°36'23"	0.428 sec	1 : 484224	1 : 484240
		<b>ΔHt.</b>	-17.562 m	0.006 m		
		<b>ΔElev.</b>	-17.552 m	0.006 m		
		<b>Ellip Dist.</b>	3237.921 m	0.007 m		
<a href="#">PLM07</a>	<a href="#">PLM11</a>	<b>Az.</b>	140°56'19"	0.796 sec	1 : 259170	1 : 259172
		<b>ΔHt.</b>	1.458 m	0.005 m		
		<b>ΔElev.</b>	1.504 m	0.005 m		
		<b>Ellip Dist.</b>	1741.813 m	0.007 m		
<a href="#">PLM08</a>	<a href="#">10121PSC</a>	<b>Az.</b>	163°21'30"	2.269 sec	1 : 90759	1 : 90794
		<b>ΔHt.</b>	-20.806 m	0.008 m		
		<b>ΔElev.</b>	-20.784 m	0.008 m		
		<b>Ellip Dist.</b>	872.491 m	0.010 m		
<a href="#">PLM08</a>	<a href="#">COLA</a>	<b>Az.</b>	297°11'40"	0.303 sec	1 : 681951	1 : 681938
		<b>ΔHt.</b>	34.958 m	0.007 m		
		<b>ΔElev.</b>	34.837 m	0.007 m		
		<b>Ellip Dist.</b>	5451.082 m	0.008 m		

<a href="#">PLM10</a>	<a href="#">26E109</a>	<b>Az.</b>	63°12'09"	7.300 sec	1 : 28379	1 : 28378
		<b>ΔHt.</b>	-0.325 m	0.007 m		
		<b>ΔElev.</b>	-0.324 m	0.007 m		
		<b>Ellip Dist.</b>	288.625 m	0.010 m		
<a href="#">PLM10</a>	<a href="#">PLM07</a>	<b>Az.</b>	31°35'54"	0.668 sec	1 : 307943	1 : 308031
		<b>ΔHt.</b>	26.088 m	0.005 m		
		<b>ΔElev.</b>	26.071 m	0.005 m		
		<b>Ellip Dist.</b>	1661.834 m	0.005 m		
<a href="#">PLM10</a>	<a href="#">PLM09</a>	<b>Az.</b>	230°15'05"	0.297 sec	1 : 694841	1 : 694879
		<b>ΔHt.</b>	46.473 m	0.006 m		
		<b>ΔElev.</b>	46.472 m	0.006 m		
		<b>Ellip Dist.</b>	4466.360 m	0.006 m		
<a href="#">PLM10</a>	<a href="#">PLM11</a>	<b>Az.</b>	88°09'52"	0.686 sec	1 : 302589	1 : 302617
		<b>ΔHt.</b>	27.547 m	0.005 m		
		<b>ΔElev.</b>	27.575 m	0.005 m		
		<b>Ellip Dist.</b>	1969.479 m	0.007 m		
<a href="#">PLM10</a>	<a href="#">PLM14</a>	<b>Az.</b>	163°51'28"	0.360 sec	1 : 570413	1 : 570420
		<b>ΔHt.</b>	9.253 m	0.005 m		
		<b>ΔElev.</b>	9.339 m	0.005 m		
		<b>Ellip Dist.</b>	3663.263 m	0.006 m		
<a href="#">PLM10</a>	<a href="#">PLM16</a>	<b>Az.</b>	122°23'17"	0.436 sec	1 : 474656	1 : 474659
		<b>ΔHt.</b>	0.297 m	0.006 m		
		<b>ΔElev.</b>	0.373 m	0.006 m		
		<b>Ellip Dist.</b>	3079.484 m	0.006 m		
<a href="#">PLM11</a>	<a href="#">26W113</a>	<b>Az.</b>	261°03'24"	1.490 sec	1 : 139736	1 : 139794
		<b>ΔHt.</b>	-33.731 m	0.008 m		
		<b>ΔElev.</b>	-33.748 m	0.008 m		
		<b>Ellip Dist.</b>	1425.032 m	0.010 m		
<a href="#">PLM12</a>	<a href="#">10122PSC</a>	<b>Az.</b>	309°03'50"	2.254 sec	1 : 92301	1 : 92501
		<b>ΔHt.</b>	-50.538 m	0.008 m		
		<b>ΔElev.</b>	-50.557 m	0.008 m		
		<b>Ellip Dist.</b>	883.973 m	0.010 m		
<a href="#">PLM12</a>	<a href="#">PLM07</a>	<b>Az.</b>	264°37'52"	0.347 sec	1 : 597713	1 : 597712
		<b>ΔHt.</b>	-8.102 m	0.007 m		
		<b>ΔElev.</b>	-8.154 m	0.007 m		
		<b>Ellip Dist.</b>	3983.601 m	0.007 m		
<a href="#">PLM12</a>	<a href="#">PLM08</a>	<b>Az.</b>	317°09'25"	0.873 sec	1 : 236130	1 : 236229
		<b>ΔHt.</b>	-25.664 m	0.008 m		
		<b>ΔElev.</b>	-25.707 m	0.008 m		
		<b>Ellip Dist.</b>	1724.283 m	0.007 m		



<a href="#">PLM12</a>	<a href="#">PLM11</a>	Az.	238°58'28"	0.447 sec	1 : 462902	1 : 462890
		ΔHt.	-6.644 m	0.007 m		
		ΔElev.	-6.650 m	0.007 m		
		Ellip Dist.	3348.069 m	0.007 m		
<a href="#">PLM13</a>	<a href="#">26W150</a>	Az.	81°23'21"	2.139 sec	1 : 96889	1 : 96894
		ΔHt.	-10.538 m	0.007 m		
		ΔElev.	-10.526 m	0.007 m		
		Ellip Dist.	842.099 m	0.009 m		
<a href="#">PLM13</a>	<a href="#">PLM09</a>	Az.	291°47'08"	0.541 sec	1 : 382668	1 : 382688
		ΔHt.	20.152 m	0.007 m		
		ΔElev.	20.089 m	0.007 m		
		Ellip Dist.	2846.345 m	0.007 m		
<a href="#">PLM13</a>	<a href="#">PLM10</a>	Az.	11°25'31"	0.308 sec	1 : 666367	1 : 666377
		ΔHt.	-26.321 m	0.005 m		
		ΔElev.	-26.383 m	0.005 m		
		Ellip Dist.	3991.646 m	0.006 m		
<a href="#">PLM13</a>	<a href="#">PLM14</a>	Az.	77°43'20"	0.769 sec	1 : 269771	1 : 269781
		ΔHt.	-17.068 m	0.006 m		
		ΔElev.	-17.044 m	0.006 m		
		Ellip Dist.	1851.817 m	0.007 m		
<a href="#">PLM14</a>	<a href="#">26W150</a>	Az.	254°41'06"	1.776 sec	1 : 116631	1 : 116631
		ΔHt.	6.530 m	0.007 m		
		ΔElev.	6.518 m	0.007 m		
		Ellip Dist.	1012.876 m	0.009 m		
<a href="#">PLM15</a>	<a href="#">126E25</a>	Az.	30°22'30"	2.241 sec	1 : 91811	1 : 91842
		ΔHt.	-24.398 m	0.007 m		
		ΔElev.	-24.406 m	0.007 m		
		Ellip Dist.	915.901 m	0.010 m		
<a href="#">PLM15</a>	<a href="#">PLM10</a>	Az.	321°12'14"	0.339 sec	1 : 607912	1 : 607932
		ΔHt.	-12.246 m	0.005 m		
		ΔElev.	-12.338 m	0.005 m		
		Ellip Dist.	3544.424 m	0.006 m		
<a href="#">PLM15</a>	<a href="#">PLM14</a>	Az.	237°50'06"	0.928 sec	1 : 223129	1 : 223129
		ΔHt.	-2.993 m	0.005 m		
		ΔElev.	-2.998 m	0.005 m		
		Ellip Dist.	1421.261 m	0.006 m		
<a href="#">PLM15</a>	<a href="#">PLM16</a>	Az.	18°49'44"	1.252 sec	1 : 164068	1 : 164089
		ΔHt.	-11.949 m	0.006 m		
		ΔElev.	-11.965 m	0.006 m		
		Ellip Dist.	1175.205 m	0.007 m		

<a href="#">PLM16</a>	<a href="#">10120PSC</a>	<b>Az.</b>	125°59'06"	3.951 sec	1 : 52466	1 : 52469
		<b>ΔHt.</b>	-3.056 m	0.007 m		
		<b>ΔElev.</b>	-3.043 m	0.007 m		
		<b>Ellip Dist.</b>	523.910 m	0.010 m		
<a href="#">PLM16</a>	<a href="#">PLM11</a>	<b>Az.</b>	339°45'40"	0.811 sec	1 : 253256	1 : 253287
		<b>ΔHt.</b>	27.250 m	0.006 m		
		<b>ΔElev.</b>	27.202 m	0.006 m		
		<b>Ellip Dist.</b>	1825.493 m	0.007 m		
<a href="#">PLM16</a>	<a href="#">PLM12</a>	<b>Az.</b>	33°02'40"	0.378 sec	1 : 544043	1 : 543983
		<b>ΔHt.</b>	33.894 m	0.008 m		
		<b>ΔElev.</b>	33.853 m	0.008 m		
		<b>Ellip Dist.</b>	4102.748 m	0.008 m		

Date: 12/12/2019 7:53:15 AM	Project: C:\Users\bmoravec\Documents\Trimble Business Center\SCDOT_CCR_StaticPLMs_2.vce	Trimble Business Center
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# Full Constraint Network Adjustment

## Carolina Crossroads Project Localization Monuments

ESP Associates, Inc.

Project File Data		Coordinate System	
Name:	C:\Users\bmoravec\Documents\Trimble Business Center\SCDOT_CCR_StaticPLMs_2.vce	Name:	US State Plane 1983
Size:	261 KB	Datum:	NAD 1983 (Conus)
Modified:	12/11/2019 1:57:05 PM (UTC:-5)	Zone:	South Carolina 3900
Time zone:	Eastern Standard Time	Geoid:	GEOID12B (Conus)
Reference number:	HN42.003.000	Vertical datum:	NAVD88
Description:		Calibrated site:	

## Network Adjustment Report

### Adjustment Settings

#### Set-Up Errors

##### GNSS

Error in Height of Antenna: 0.007 m

Centering Error: 0.010 m

##### Covariance Display

##### Horizontal:

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

##### Three-Dimensional

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

### Adjustment Statistics

Number of Iterations for Successful Adjustment: 3

Network Reference Factor: 1.01

Chi Square Test (95%): Passed

Precision Confidence Level: 95%

Degrees of Freedom: 170

#### Post Processed Vector Statistics

Reference Factor: 1.01

Redundancy Number: 170.00

A Priori Scalar: 0.76

### Control Coordinate Comparisons

Values shown are control coordinates minus adjusted coordinates.

Point ID	$\Delta$ Easting (Meter)	$\Delta$ Northing (Meter)	$\Delta$ Elevation (Meter)	$\Delta$ Height (Meter)
<a href="#">10109PSC</a>	0.018	0.008	-0.017	?
<a href="#">10115PSC</a>	0.051	0.025	0.005	?
<a href="#">10116PSC</a>	0.030	0.030	-0.006	?
<a href="#">10121PSC</a>	0.094	0.026	0.010	?
<a href="#">10122PSC</a>	0.085	0.019	0.015	?
<a href="#">10127PSC</a>	-0.019	0.019	-0.037	?
<a href="#">10128PSC</a>	-0.015	0.024	-0.037	?
<a href="#">10205MSC</a>	0.008	0.019	0.000	?

### Control Point Constraints

Point ID	Type	East $\sigma$ (Meter)	North $\sigma$ (Meter)	Height $\sigma$ (Meter)	Elevation $\sigma$ (Meter)
<a href="#">126E25</a>	Grid	Fixed	Fixed		Fixed
<a href="#">26E109</a>	Grid	Fixed	Fixed		Fixed
<a href="#">26E60</a>	Grid	Fixed	Fixed		Fixed
<a href="#">10103PSC</a>	Grid	Fixed	Fixed		Fixed
<a href="#">10104PSC</a>	Grid	Fixed	Fixed		Fixed
<a href="#">10110PSC</a>	Grid	Fixed	Fixed		Fixed
<a href="#">10111PSC</a>	Grid	Fixed	Fixed		Fixed
<a href="#">10112PSC</a>	Grid	Fixed	Fixed		Fixed
<a href="#">10119PSCZOO</a>	Grid	Fixed	Fixed		Fixed
<a href="#">10120PSC</a>	Grid	Fixed	Fixed		Fixed
<a href="#">26W113</a>	Grid	Fixed	Fixed		Fixed
<a href="#">26W150</a>	Grid	Fixed	Fixed		Fixed
<a href="#">26W20</a>	Grid	Fixed	Fixed		Fixed
<a href="#">26W60</a>	Grid	Fixed	Fixed		Fixed
<a href="#">36A</a>	Grid	Fixed	Fixed		Fixed
<a href="#">7757D</a>	Grid	Fixed	Fixed		Fixed
<a href="#">COLA</a>	Grid	Fixed	Fixed		Fixed
<a href="#">PLM01</a>	Grid				Fixed
<a href="#">PLM02</a>	Grid				Fixed
<a href="#">PLM03</a>	Grid				Fixed
<a href="#">PLM04</a>	Grid				Fixed
<a href="#">PLM06</a>	Grid				Fixed
<a href="#">PLM07</a>	Grid				Fixed
<a href="#">PLM10</a>	Grid				Fixed

<a href="#">PLM11</a>	Grid				Fixed
<a href="#">PLM13</a>	Grid				Fixed
<a href="#">PLM14</a>	Grid				Fixed
<a href="#">PLM15</a>	Grid				Fixed
<a href="#">PLM16</a>	Grid				Fixed
Fixed = 0.000001(Meter)					

### Adjusted Grid Coordinates

Point ID	Easting (Meter)	Easting Error (Meter)	Northing (Meter)	Northing Error (Meter)	Elevation (Meter)	Elevation Error (Meter)	Constraint
<a href="#">126E25</a>	602233.844	?	241745.896	?	58.391	?	ENe
<a href="#">26E109</a>	599809.790	?	243849.816	?	70.128	?	ENe
<a href="#">26E60</a>	596501.150	?	247700.999	?	78.974	?	ENe
<a href="#">10103PSC</a>	593631.061	?	251246.516	?	105.503	?	ENe
<a href="#">10104PSC</a>	593347.981	?	251162.050	?	105.491	?	ENe
<a href="#">10109PSC</a>	596367.182	0.016	247763.727	0.016	83.517	0.011	
<a href="#">10110PSC</a>	596578.861	?	247871.044	?	84.673	?	ENe
<a href="#">10111PSC</a>	598428.227	?	245159.388	?	77.806	?	ENe
<a href="#">10112PSC</a>	598803.277	?	245222.506	?	70.095	?	ENe
<a href="#">10115PSC</a>	600085.071	0.017	243669.159	0.017	72.461	0.012	
<a href="#">10116PSC</a>	599810.556	0.017	243748.211	0.017	66.757	0.013	
<a href="#">10119PSCZOO</a>	602581.637	?	241530.919	?	62.908	?	ENe
<a href="#">10120PSC</a>	602573.915	?	241759.930	?	67.791	?	ENe
<a href="#">10121PSC</a>	603467.406	0.022	245933.489	0.022	58.174	0.017	
<a href="#">10122PSC</a>	603703.814	0.022	246062.106	0.022	54.106	0.018	
<a href="#">10127PSC</a>	596834.811	0.022	242284.777	0.022	97.647	0.016	
<a href="#">10128PSC</a>	596979.052	0.021	242416.554	0.021	89.421	0.014	
<a href="#">10205MSC</a>	593621.384	0.015	251082.928	0.015	98.804	0.011	
<a href="#">26W113</a>	600112.609	?	243560.697	?	64.273	?	ENe
<a href="#">26W150</a>	599589.670	?	239934.189	?	86.310	?	ENe
<a href="#">26W20</a>	593711.236	?	251042.854	?	98.161	?	ENe
<a href="#">26W60</a>	596523.983	?	247720.549	?	78.934	?	ENe
<a href="#">36A</a>	598524.297	?	245180.946	?	70.906	?	ENe
<a href="#">7757D</a>	598852.206	?	245272.600	?	70.918	?	ENe
<a href="#">COLA</a>	598372.170	?	249263.438	?	113.794	?	ENe
<a href="#">PLM01</a>	592528.932	0.014	250238.639	0.014	113.715	?	e
<a href="#">PLM02</a>	594115.175	0.012	251149.113	0.012	100.435	?	e
<a href="#">PLM03</a>	594744.061	0.012	246372.705	0.012	71.994	?	e
<a href="#">PLM04</a>	596951.734	0.009	247899.158	0.009	90.681	?	e
<a href="#">PLM05</a>	594827.281	0.015	241778.473	0.015	93.554	0.012	
<a href="#">PLM06</a>	597560.790	0.010	244194.957	0.010	77.931	?	e
<a href="#">PLM07</a>	600424.143	0.010	245134.267	0.010	96.512	?	e



<a href="#">PLM08</a>	603218.144	0.014	246769.448	0.014	78.957	0.012	
<a href="#">PLM09</a>	596115.728	0.015	240868.265	0.015	116.918	0.011	
<a href="#">PLM10</a>	599552.077	0.008	243719.994	0.009	70.445	?	e
<a href="#">PLM11</a>	601520.243	0.012	243780.993	0.012	98.008	?	e
<a href="#">PLM12</a>	604389.739	0.015	245504.766	0.016	104.663	0.013	
<a href="#">PLM13</a>	598757.080	0.013	239809.084	0.013	96.832	?	e
<a href="#">PLM14</a>	600566.644	0.012	240200.746	0.013	79.787	?	e
<a href="#">PLM15</a>	601770.158	0.012	240956.241	0.012	82.787	?	e
<a href="#">PLM16</a>	602150.291	0.012	242068.036	0.012	70.826	?	e

### Adjusted Geodetic Coordinates

Point ID	Latitude	Longitude	Height (Meter)	Height Error (Meter)	Constraint
<a href="#">126E25</a>	N34°00'47.65421"	W81°04'47.13902"	27.375	?	ENe
<a href="#">26E109</a>	N34°01'55.87898"	W81°06'21.71478"	39.195	?	ENe
<a href="#">26E60</a>	N34°04'00.76273"	W81°08'30.92286"	48.167	?	ENe
<a href="#">10103PSC</a>	N34°05'55.71002"	W81°10'23.10258"	74.792	?	ENe
<a href="#">10104PSC</a>	N34°05'52.95270"	W81°10'34.14263"	74.783	?	ENe
<a href="#">10109PSC</a>	N34°04'02.79293"	W81°08'36.15168"	52.713	0.011	
<a href="#">10110PSC</a>	N34°04'06.28595"	W81°08'27.90079"	53.868	?	ENe
<a href="#">10111PSC</a>	N34°02'38.33965"	W81°07'15.64089"	46.921	?	ENe
<a href="#">10112PSC</a>	N34°02'40.40253"	W81°07'01.01869"	39.206	?	ENe
<a href="#">10115PSC</a>	N34°01'50.02370"	W81°06'10.97472"	41.521	0.012	
<a href="#">10116PSC</a>	N34°01'52.58083"	W81°06'21.68085"	35.822	0.013	
<a href="#">10119PSCZOO</a>	N34°00'40.68431"	W81°04'33.57559"	31.882	?	ENe
<a href="#">10120PSC</a>	N34°00'48.11809"	W81°04'33.88317"	36.770	?	ENe
<a href="#">10121PSC</a>	N34°03'03.61598"	W81°03'59.15865"	27.227	0.017	
<a href="#">10122PSC</a>	N34°03'07.79582"	W81°03'49.94233"	23.159	0.018	
<a href="#">10127PSC</a>	N34°01'04.96206"	W81°08'17.62582"	66.731	0.016	
<a href="#">10128PSC</a>	N34°01'09.24591"	W81°08'12.00964"	58.505	0.014	
<a href="#">10205MSC</a>	N34°05'50.39937"	W81°10'23.46948"	68.090	0.011	
<a href="#">26W113</a>	N34°01'46.50382"	W81°06'09.89684"	33.330	?	ENe
<a href="#">26W150</a>	N33°59'48.76585"	W81°06'30.13704"	55.304	?	ENe
<a href="#">26W20</a>	N34°05'49.10342"	W81°10'19.96095"	67.446	?	ENe
<a href="#">26W60</a>	N34°04'01.39835"	W81°08'30.03330"	48.127	?	ENe
<a href="#">36A</a>	N34°02'39.04308"	W81°07'11.89564"	40.020	?	ENe
<a href="#">7757D</a>	N34°02'42.03042"	W81°06'59.11291"	40.029	?	ENe
<a href="#">COLA</a>	N34°04'51.55789"	W81°07'18.01523"	82.990	?	ENe
<a href="#">PLM01</a>	N34°05'22.93195"	W81°11'06.03678"	83.005	?	e
<a href="#">PLM02</a>	N34°05'52.57419"	W81°10'04.20648"	69.716	?	e
<a href="#">PLM03</a>	N34°03'17.56179"	W81°09'39.37762"	41.185	?	e
<a href="#">PLM04</a>	N34°04'07.21485"	W81°08'13.35801"	59.872	?	e

<a href="#">PLM05</a>	N34°00'48.43287"	W81°09'35.85477"	62.658	0.012	
<a href="#">PLM06</a>	N34°02'06.99910"	W81°07'49.41892"	47.039	?	e
<a href="#">PLM07</a>	N34°02'37.59330"	W81°05'57.80968"	65.597	?	e
<a href="#">PLM08</a>	N34°03'30.74657"	W81°04'08.90119"	48.033	0.012	
<a href="#">PLM09</a>	N34°00'18.94834"	W81°08'45.57980"	85.986	0.011	
<a href="#">PLM10</a>	N34°01'51.65614"	W81°06'31.75752"	39.513	?	e
<a href="#">PLM11</a>	N34°01'53.69690"	W81°05'15.02295"	67.048	?	e
<a href="#">PLM12</a>	N34°02'49.71707"	W81°03'23.18045"	73.697	0.013	
<a href="#">PLM13</a>	N33°59'44.67526"	W81°07'02.58039"	65.837	?	e
<a href="#">PLM14</a>	N33°59'57.45028"	W81°05'52.07087"	48.769	?	e
<a href="#">PLM15</a>	N34°00'22.00908"	W81°05'05.18865"	51.764	?	e
<a href="#">PLM16</a>	N34°00'58.10915"	W81°04'50.40579"	39.818	?	e

### Adjusted ECEF Coordinates

Point ID	X (Meter)	X Error (Meter)	Y (Meter)	Y Error (Meter)	Z (Meter)	Z Error (Meter)	3D Error (Meter)	Constraint
<a href="#">126E25</a>	820645.451	?	-5228448.331	?	3547679.068	?	?	ENe
<a href="#">26E109</a>	818067.704	?	-5227671.686	?	3549427.973	?	?	ENe
<a href="#">26E60</a>	814462.212	?	-5226061.653	?	3552621.227	?	?	ENe
<a href="#">10103PSC</a>	811318.648	?	-5224564.334	?	3555569.576	?	?	ENe
<a href="#">10104PSC</a>	811046.314	?	-5224654.811	?	3555499.218	?	?	ENe
<a href="#">10109PSC</a>	814324.915	0.016	-5226051.396	0.013	3552675.593	0.015	0.025	
<a href="#">10110PSC</a>	814524.827	?	-5225960.192	?	3552765.397	?	?	ENe
<a href="#">10111PSC</a>	816588.904	?	-5227168.170	?	3550516.445	?	?	ENe
<a href="#">10112PSC</a>	816952.976	?	-5227068.795	?	3550564.794	?	?	ENe
<a href="#">10115PSC</a>	818355.817	0.017	-5227730.740	0.014	3549279.760	0.016	0.028	
<a href="#">10116PSC</a>	818076.924	0.017	-5227724.980	0.014	3549341.867	0.016	0.028	
<a href="#">10119PSCZOO</a>	821008.472	?	-5228516.721	?	3547503.574	?	?	ENe
<a href="#">10120PSC</a>	820981.429	?	-5228395.375	?	3547696.171	?	?	ENe
<a href="#">10121PSC</a>	821497.544	0.022	-5225941.062	0.019	3551150.728	0.021	0.036	
<a href="#">10122PSC</a>	821719.323	0.022	-5225829.783	0.019	3551255.157	0.021	0.036	
<a href="#">10127PSC</a>	815268.623	0.022	-5229020.511	0.018	3548143.121	0.020	0.034	
<a href="#">10128PSC</a>	815398.570	0.021	-5228918.610	0.017	3548247.924	0.019	0.033	
<a href="#">10205MSC</a>	811322.580	0.015	-5224650.943	0.012	3555430.317	0.014	0.024	
<a href="#">26W113</a>	818391.473	?	-5227779.721	?	3549185.294	?	?	ENe
<a href="#">26W150</a>	818194.958	?	-5229882.917	?	3546190.515	?	?	ENe
<a href="#">26W20</a>	811414.804	?	-5224658.735	?	3555396.889	?	?	ENe
<a href="#">26W60</a>	814483.056	?	-5226047.268	?	3552637.429	?	?	ENe
<a href="#">36A</a>	816681.060	?	-5227135.704	?	3550530.541	?	?	ENe
<a href="#">7757D</a>	816997.040	?	-5227034.176	?	3550606.816	?	?	ENe
<a href="#">COLA</a>	816178.514	?	-5224935.568	?	3553937.154	?	?	ENe
<a href="#">PLM01</a>	810318.934	?	-5225299.281	?	3554737.800	?	?	e

<a href="#">PLM02</a>	811804.943	?	-5224539.359	?	3555486.719	?	?	e
<a href="#">PLM03</a>	812841.420	?	-5227062.623	?	3551514.560	?	?	e
<a href="#">PLM04</a>	814891.579	?	-5225891.822	?	3552792.469	?	?	e
<a href="#">PLM05</a>	813328.647	0.015	-5229607.531	0.013	3547718.692	0.014	0.025	
<a href="#">PLM06</a>	815816.249	?	-5227836.007	?	3549716.307	?	?	e
<a href="#">PLM07</a>	818565.632	?	-5226887.677	?	3550507.845	?	?	e
<a href="#">PLM08</a>	821180.708	0.014	-5225534.441	0.013	3551854.969	0.014	0.024	
<a href="#">PLM09</a>	814684.475	0.015	-5229930.327	0.013	3546978.657	0.014	0.024	
<a href="#">PLM10</a>	817824.470	?	-5227783.715	?	3549320.321	?	?	e
<a href="#">PLM11</a>	819767.335	?	-5227466.884	?	3549387.841	?	?	e
<a href="#">PLM12</a>	822452.340	0.015	-5226072.593	0.014	3550821.911	0.015	0.026	
<a href="#">PLM13</a>	817384.571	?	-5230089.803	?	3546091.909	?	?	e
<a href="#">PLM14</a>	819136.127	?	-5229578.655	?	3546408.703	?	?	e
<a href="#">PLM15</a>	820259.548	?	-5228976.729	?	3547037.697	?	?	e
<a href="#">PLM16</a>	820536.303	?	-5228293.490	?	3547953.047	?	?	e

#### Error Ellipse Components

Point ID	Semi-major axis (Meter)	Semi-minor axis (Meter)	Azimuth
<a href="#">10109PSC</a>	0.020	0.020	0°
<a href="#">10115PSC</a>	0.022	0.022	177°
<a href="#">10116PSC</a>	0.022	0.022	177°
<a href="#">10121PSC</a>	0.027	0.027	15°
<a href="#">10122PSC</a>	0.028	0.027	19°
<a href="#">10127PSC</a>	0.027	0.027	122°
<a href="#">10128PSC</a>	0.026	0.026	167°
<a href="#">10205MSC</a>	0.019	0.019	4°
<a href="#">PLM01</a>	0.018	0.017	1°
<a href="#">PLM02</a>	0.015	0.015	2°
<a href="#">PLM03</a>	0.015	0.015	2°
<a href="#">PLM04</a>	0.011	0.011	1°
<a href="#">PLM05</a>	0.019	0.019	173°
<a href="#">PLM06</a>	0.012	0.012	3°
<a href="#">PLM07</a>	0.012	0.012	3°
<a href="#">PLM08</a>	0.018	0.018	177°
<a href="#">PLM09</a>	0.019	0.019	177°
<a href="#">PLM10</a>	0.011	0.011	2°
<a href="#">PLM11</a>	0.015	0.015	1°
<a href="#">PLM12</a>	0.019	0.019	0°
<a href="#">PLM13</a>	0.016	0.016	1°
<a href="#">PLM14</a>	0.016	0.016	0°
<a href="#">PLM15</a>	0.015	0.015	0°

<a href="#">PLM16</a>	0.015	0.015	5°
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### Adjusted GNSS Observations

#### Transformation Parameters

**Deflection in Latitude:** -0.042 sec (95%) 0.334 sec  
**Deflection in Longitude:** 0.246 sec (95%) 0.287 sec  
**Azimuth Rotation:** -0.177 sec (95%) 0.344 sec  
**Scale Factor:** 0.99999971 (95%) 0.00000167

Observation ID		Observation	A-posteriori Error	Residual	Standardized Residual
<a href="#">10111PSC --&gt; PLM06 (PV320)</a>	<b>Az.</b>	221°54'07"	1.520 sec	-0.338 sec	-0.219
	<b>ΔHt.</b>	0.117 m	0.002 m	-0.029 m	-3.580
	<b>Ellip Dist.</b>	1297.382 m	0.010 m	0.016 m	1.608
<a href="#">7757D --&gt; 10112PSC (PV273)</a>	<b>Az.</b>	224°15'41"	0.345 sec	-44.685 sec	-1.402
	<b>ΔHt.</b>	-0.823 m	0.000 m	0.024 m	3.189
	<b>Ellip Dist.</b>	70.038 m	0.000 m	-0.015 m	-1.362
<a href="#">10110PSC --&gt; PLM04 (PV228)</a>	<b>Az.</b>	85°36'35"	4.991 sec	-0.031 sec	-0.006
	<b>ΔHt.</b>	6.004 m	0.001 m	-0.021 m	-2.649
	<b>Ellip Dist.</b>	374.000 m	0.009 m	-0.006 m	-0.614
<a href="#">PLM06 --&gt; PLM04 (PV15)</a>	<b>Az.</b>	350°35'26"	0.592 sec	-0.216 sec	-0.421
	<b>ΔHt.</b>	12.832 m	0.005 m	0.024 m	2.567
	<b>Ellip Dist.</b>	3754.631 m	0.011 m	0.001 m	0.104
<a href="#">PLM06 --&gt; PLM10 (PV7)</a>	<b>Az.</b>	103°20'35"	0.989 sec	0.825 sec	0.851
	<b>ΔHt.</b>	-7.524 m	0.003 m	0.023 m	2.525
	<b>Ellip Dist.</b>	2047.530 m	0.010 m	-0.001 m	-0.085
<a href="#">PLM16 --&gt; PLM12 (PV33)</a>	<b>Az.</b>	33°02'39"	0.689 sec	0.110 sec	0.261
	<b>ΔHt.</b>	33.882 m	0.012 m	-0.025 m	-2.472
	<b>Ellip Dist.</b>	4102.746 m	0.014 m	-0.001 m	-0.085
<a href="#">10111PSC --&gt; 36A (PV232)</a>	<b>Az.</b>	77°17'07"	0.345 sec	18.748 sec	0.826
	<b>ΔHt.</b>	-6.901 m	0.000 m	-0.004 m	-0.563
	<b>Ellip Dist.</b>	98.477 m	0.000 m	-0.026 m	-2.370

<a href="#">36A --&gt; 10112PSC (PV233)</a>	<b>Az.</b>	81°27'37"	0.344 sec	-7.996 sec	-1.011
	<b>ΔHt.</b>	-0.814 m	0.000 m	0.018 m	2.306
	<b>Ellip Dist.</b>	282.111 m	0.000 m	0.017 m	1.558
<a href="#">10104PSC --&gt; PLM01 (PV299)</a>	<b>Az.</b>	221°28'29"	2.325 sec	-1.757 sec	-1.282
	<b>ΔHt.</b>	8.221 m	0.002 m	0.004 m	0.518
	<b>Ellip Dist.</b>	1234.535 m	0.014 m	0.016 m	1.934
<a href="#">10109PSC --&gt; `26E60 (PV261)</a>	<b>Az.</b>	115°00'40"	22.277 sec	18.920 sec	1.900
	<b>ΔHt.</b>	-4.546 m	0.011 m	-0.001 m	-0.138
	<b>Ellip Dist.</b>	147.953 m	0.016 m	0.004 m	0.494
<a href="#">PLM12 --&gt; PLM11 (PV137)</a>	<b>Az.</b>	238°58'28"	0.812 sec	0.109 sec	0.207
	<b>ΔHt.</b>	-6.653 m	0.012 m	-0.018 m	-1.872
	<b>Ellip Dist.</b>	3348.069 m	0.013 m	0.000 m	0.016
<a href="#">COLA --&gt; PLM04 (PV330)</a>	<b>Az.</b>	226°05'16"	0.987 sec	-0.386 sec	-0.380
	<b>ΔHt.</b>	-23.121 m	0.004 m	0.015 m	1.871
	<b>Ellip Dist.</b>	1969.849 m	0.009 m	-0.006 m	-0.568
<a href="#">10110PSC --&gt; 26W60 (PV227)</a>	<b>Az.</b>	199°57'22"	0.345 sec	13.954 sec	1.002
	<b>ΔHt.</b>	-5.741 m	0.000 m	-0.014 m	-1.857
	<b>Ellip Dist.</b>	160.218 m	0.000 m	0.010 m	0.927
<a href="#">10127PSC --&gt; 10128PSC (PV84)</a>	<b>Az.</b>	47°30'32"	19.064 sec	0.719 sec	0.115
	<b>ΔHt.</b>	-8.226 m	0.014 m	-0.007 m	-1.824
	<b>Ellip Dist.</b>	195.410 m	0.018 m	-0.005 m	-0.852
<a href="#">10122PSC --&gt; 10121PSC (PV82)</a>	<b>Az.</b>	241°24'59"	13.731 sec	0.111 sec	0.025
	<b>ΔHt.</b>	4.067 m	0.013 m	-0.007 m	-1.820
	<b>Ellip Dist.</b>	269.180 m	0.018 m	-0.003 m	-0.470
<a href="#">10127PSC --&gt; PLM05 (PV85)</a>	<b>Az.</b>	255°46'06"	1.830 sec	0.338 sec	0.532
	<b>ΔHt.</b>	-4.075 m	0.015 m	0.010 m	1.817
	<b>Ellip Dist.</b>	2070.782 m	0.018 m	-0.004 m	-0.640
<a href="#">10122PSC --&gt; PLM12 (PV83)</a>	<b>Az.</b>	129°03'35"	4.230 sec	0.591 sec	0.425
	<b>ΔHt.</b>	50.538 m	0.015 m	0.008 m	1.815
	<b>Ellip Dist.</b>	883.973 m	0.018 m	-0.001 m	-0.157

<a href="#">10121PSC --&gt; PLM08 (PV147)</a>	<b>Az.</b>	343°21'35"	4.268 sec	0.588 sec	0.421
	<b>ΔHt.</b>	20.806 m	0.015 m	-0.009 m	-1.812
	<b>Ellip Dist.</b>	872.491 m	0.018 m	0.001 m	0.131
<a href="#">10128PSC --&gt; PLM06 (PV150)</a>	<b>Az.</b>	18°02'16"	1.985 sec	-0.205 sec	-0.318
	<b>ΔHt.</b>	-11.465 m	0.014 m	-0.008 m	-1.806
	<b>Ellip Dist.</b>	1871.483 m	0.018 m	-0.005 m	-0.761
<a href="#">PLM06 --&gt; PLM07 (PV104)</a>	<b>Az.</b>	71°45'57"	0.716 sec	-0.019 sec	-0.030
	<b>ΔHt.</b>	18.562 m	0.005 m	0.017 m	1.768
	<b>Ellip Dist.</b>	3014.045 m	0.010 m	0.004 m	0.420
<a href="#">PLM05 --&gt; PLM03 (PV8)</a>	<b>Az.</b>	358°52'25"	0.563 sec	-0.216 sec	-0.547
	<b>ΔHt.</b>	-21.472 m	0.011 m	0.018 m	1.701
	<b>Ellip Dist.</b>	4595.842 m	0.013 m	-0.012 m	-1.374
<a href="#">PLM16 --&gt; PLM10 (PV72)</a>	<b>Az.</b>	302°24'13"	0.763 sec	-0.173 sec	-0.283
	<b>ΔHt.</b>	-0.308 m	0.004 m	-0.016 m	-1.673
	<b>Ellip Dist.</b>	3079.486 m	0.011 m	0.004 m	0.389
<a href="#">7757D --&gt; PLM07 (PV274)</a>	<b>Az.</b>	94°57'52"	1.193 sec	2.051 sec	1.594
	<b>ΔHt.</b>	25.570 m	0.002 m	0.013 m	1.590
	<b>Ellip Dist.</b>	1578.304 m	0.009 m	0.015 m	1.561
<a href="#">26E60 --&gt; 26W60 (PV197)</a>	<b>Az.</b>	49°21'02"	0.345 sec	-117.470 sec	-1.581
	<b>ΔHt.</b>	-0.040 m	0.000 m	-0.010 m	-1.329
	<b>Ellip Dist.</b>	30.065 m	0.000 m	0.008 m	0.743
<a href="#">10109PSC --&gt; PLM03 (PV304)</a>	<b>Az.</b>	229°19'26"	1.541 sec	0.846 sec	1.232
	<b>ΔHt.</b>	-11.530 m	0.011 m	0.001 m	0.130
	<b>Ellip Dist.</b>	2138.023 m	0.016 m	-0.011 m	-1.527
<a href="#">26W113 --&gt; PLM11 (PV231)</a>	<b>Az.</b>	81°02'54"	1.658 sec	0.017 sec	0.012
	<b>ΔHt.</b>	33.720 m	0.002 m	-0.012 m	-1.521
	<b>Ellip Dist.</b>	1425.034 m	0.011 m	0.002 m	0.212
<a href="#">PLM10 --&gt; PLM15 (PV134)</a>	<b>Az.</b>	141°11'25"	0.602 sec	-0.271 sec	-0.491
	<b>ΔHt.</b>	12.253 m	0.004 m	0.014 m	1.459
	<b>Ellip Dist.</b>	3544.423 m	0.010 m	0.001 m	0.137

<a href="#">26W20 --&gt; PLM02 (PV175)</a>	<b>Az.</b>	75°09'59"	6.061 sec	-6.202 sec	-1.417
	<b>ΔHt.</b>	2.271 m	0.001 m	0.005 m	0.673
	<b>Ellip Dist.</b>	417.756 m	0.012 m	0.000 m	0.044
<a href="#">PLM01 --&gt; PLM02 (PV44)</a>	<b>Az.</b>	60°02'32"	1.406 sec	0.111 sec	0.111
	<b>ΔHt.</b>	-13.287 m	0.003 m	-0.016 m	-1.396
	<b>Ellip Dist.</b>	1829.297 m	0.012 m	0.000 m	0.004
<a href="#">PLM06 --&gt; PLM03 (PV114)</a>	<b>Az.</b>	307°38'13"	0.683 sec	-0.102 sec	-0.195
	<b>ΔHt.</b>	-5.857 m	0.004 m	0.014 m	1.388
	<b>Ellip Dist.</b>	3561.073 m	0.012 m	0.003 m	0.334
<a href="#">PLM09 --&gt; PLM13 (PV275)</a>	<b>Az.</b>	111°46'11"	0.989 sec	0.283 sec	0.470
	<b>ΔHt.</b>	-20.146 m	0.011 m	0.011 m	1.337
	<b>Ellip Dist.</b>	2846.345 m	0.014 m	0.005 m	0.544
<a href="#">PLM07 --&gt; PLM08 (PV54)</a>	<b>Az.</b>	59°36'24"	0.772 sec	0.429 sec	0.757
	<b>ΔHt.</b>	-17.561 m	0.011 m	0.010 m	1.334
	<b>Ellip Dist.</b>	3237.920 m	0.012 m	0.005 m	0.527
<a href="#">126E25 --&gt; 10119PSCZOO (PV268)</a>	<b>Az.</b>	121°40'36"	0.344 sec	-3.473 sec	-0.636
	<b>ΔHt.</b>	4.508 m	0.001 m	-0.004 m	-0.555
	<b>Ellip Dist.</b>	408.948 m	0.001 m	0.014 m	1.333
<a href="#">10120PSC --&gt; PLM16 (PV178)</a>	<b>Az.</b>	305°59'12"	4.940 sec	-2.893 sec	-0.827
	<b>ΔHt.</b>	3.048 m	0.001 m	-0.011 m	-1.333
	<b>Ellip Dist.</b>	523.918 m	0.013 m	0.008 m	0.871
<a href="#">PLM04 --&gt; PLM07 (PV37)</a>	<b>Az.</b>	128°27'08"	0.471 sec	-0.009 sec	-0.020
	<b>ΔHt.</b>	5.729 m	0.005 m	-0.013 m	-1.327
	<b>Ellip Dist.</b>	4439.537 m	0.010 m	-0.004 m	-0.404
<a href="#">PLM01 --&gt; PLM05 (PV77)</a>	<b>Az.</b>	164°41'55"	0.323 sec	0.096 sec	0.478
	<b>ΔHt.</b>	-20.346 m	0.013 m	-0.006 m	-0.371
	<b>Ellip Dist.</b>	8768.418 m	0.014 m	0.012 m	1.326
<a href="#">26W20 --&gt; 10205MSC (PV195)</a>	<b>Az.</b>	293°56'29"	31.500 sec	20.993 sec	1.307
	<b>ΔHt.</b>	0.644 m	0.011 m	0.003 m	0.538
	<b>Ellip Dist.</b>	98.401 m	0.015 m	0.001 m	0.119



<a href="#">PLM11 --&gt; PLM16 (PV123)</a>	<b>Az.</b>	159°45'26"	1.419 sec	-0.736 sec	-0.747
	<b>ΔHt.</b>	-27.229 m	0.002 m	0.011 m	1.275
	<b>Ellip Dist.</b>	1825.494 m	0.013 m	-0.001 m	-0.138
<a href="#">PLM04 --&gt; PLM07 (PV118)</a>	<b>Az.</b>	128°27'08"	0.471 sec	-0.267 sec	-0.599
	<b>ΔHt.</b>	5.729 m	0.005 m	-0.013 m	-1.270
	<b>Ellip Dist.</b>	4439.537 m	0.010 m	-0.011 m	-1.184
<a href="#">10103PSC --&gt; 10205MSC (PV223)</a>	<b>Az.</b>	183°17'22"	18.909 sec	3.373 sec	0.350
	<b>ΔHt.</b>	-6.702 m	0.011 m	-0.003 m	-0.538
	<b>Ellip Dist.</b>	163.903 m	0.015 m	0.010 m	1.265
<a href="#">COLA --&gt; PLM02 (PV326)</a>	<b>Az.</b>	293°49'26"	0.464 sec	0.015 sec	0.036
	<b>ΔHt.</b>	-13.279 m	0.006 m	0.011 m	1.263
	<b>Ellip Dist.</b>	4656.777 m	0.010 m	-0.003 m	-0.284
<a href="#">PLM06 --&gt; PLM05 (PV75)</a>	<b>Az.</b>	228°27'01"	0.656 sec	-0.123 sec	-0.238
	<b>ΔHt.</b>	15.615 m	0.010 m	0.011 m	1.208
	<b>Ellip Dist.</b>	3649.173 m	0.012 m	0.006 m	0.685
<a href="#">PLM02 --&gt; PLM04 (PV81)</a>	<b>Az.</b>	138°47'33"	0.508 sec	-0.118 sec	-0.262
	<b>ΔHt.</b>	-9.842 m	0.005 m	0.012 m	1.176
	<b>Ellip Dist.</b>	4314.510 m	0.011 m	0.002 m	0.191
<a href="#">PLM10 --&gt; PLM11 (PV139)</a>	<b>Az.</b>	88°09'52"	1.193 sec	0.401 sec	0.418
	<b>ΔHt.</b>	27.537 m	0.003 m	-0.010 m	-1.164
	<b>Ellip Dist.</b>	1969.479 m	0.011 m	0.001 m	0.094
<a href="#">126E25 --&gt; PLM15 (PV315)</a>	<b>Az.</b>	210°22'38"	2.651 sec	-1.186 sec	-0.583
	<b>ΔHt.</b>	24.388 m	0.002 m	-0.009 m	-1.118
	<b>Ellip Dist.</b>	915.902 m	0.012 m	0.003 m	0.354
<a href="#">PLM07 --&gt; PLM11 (PV59)</a>	<b>Az.</b>	140°56'19"	1.390 sec	-0.701 sec	-0.653
	<b>ΔHt.</b>	1.451 m	0.002 m	-0.009 m	-1.112
	<b>Ellip Dist.</b>	1741.814 m	0.012 m	-0.002 m	-0.212
<a href="#">PLM06 --&gt; PLM10 (PV115)</a>	<b>Az.</b>	103°20'35"	0.989 sec	0.189 sec	0.196
	<b>ΔHt.</b>	-7.524 m	0.003 m	0.009 m	1.041
	<b>Ellip Dist.</b>	2047.530 m	0.010 m	-0.004 m	-0.425

<a href="#">COLA --&gt; PLM08 (PV338)</a>	<b>Az.</b>	117°09'54"	0.480 sec	-0.342 sec	-1.036
	<b>ΔHt.</b>	-34.952 m	0.011 m	0.002 m	0.204
	<b>Ellip Dist.</b>	5451.081 m	0.013 m	-0.009 m	-0.996
<a href="#">PLM02 --&gt; PLM04 (PV12)</a>	<b>Az.</b>	138°47'33"	0.508 sec	0.135 sec	0.299
	<b>ΔHt.</b>	-9.842 m	0.005 m	0.001 m	0.052
	<b>Ellip Dist.</b>	4314.510 m	0.011 m	-0.009 m	-0.961
<a href="#">PLM04 --&gt; PLM08 (PV109)</a>	<b>Az.</b>	100°08'36"	0.404 sec	0.237 sec	0.822
	<b>ΔHt.</b>	-11.831 m	0.011 m	-0.011 m	-0.961
	<b>Ellip Dist.</b>	6368.593 m	0.012 m	-0.001 m	-0.088
<a href="#">10120PSC --&gt; 10119PSCZOO (PV269)</a>	<b>Az.</b>	178°01'36"	0.344 sec	9.081 sec	0.932
	<b>ΔHt.</b>	-4.888 m	0.000 m	-0.002 m	-0.297
	<b>Ellip Dist.</b>	229.184 m	0.000 m	0.003 m	0.290
<a href="#">26W150 --&gt; PLM14 (PV152)</a>	<b>Az.</b>	74°40'43"	2.553 sec	-1.642 sec	-0.922
	<b>ΔHt.</b>	-6.534 m	0.002 m	-0.003 m	-0.372
	<b>Ellip Dist.</b>	1012.877 m	0.013 m	0.000 m	0.018
<a href="#">10104PSC --&gt; 10103PSC (PV256)</a>	<b>Az.</b>	73°17'17"	0.344 sec	6.970 sec	0.922
	<b>ΔHt.</b>	0.009 m	0.001 m	0.006 m	0.739
	<b>Ellip Dist.</b>	295.466 m	0.000 m	0.001 m	0.135
<a href="#">PLM07 --&gt; PLM10 (PV119)</a>	<b>Az.</b>	211°36'13"	1.189 sec	-0.570 sec	-0.475
	<b>ΔHt.</b>	-26.086 m	0.003 m	0.008 m	0.918
	<b>Ellip Dist.</b>	1661.835 m	0.010 m	0.001 m	0.076
<a href="#">PLM13 --&gt; PLM10 (PV278)</a>	<b>Az.</b>	11°25'31"	0.548 sec	-0.039 sec	-0.081
	<b>ΔHt.</b>	-26.323 m	0.006 m	-0.008 m	-0.916
	<b>Ellip Dist.</b>	3991.648 m	0.011 m	0.001 m	0.116
<a href="#">26E109 --&gt; PLM10 (PV311)</a>	<b>Az.</b>	243°12'17"	6.084 sec	1.902 sec	0.268
	<b>ΔHt.</b>	0.318 m	0.001 m	-0.007 m	-0.869
	<b>Ellip Dist.</b>	288.619 m	0.009 m	-0.006 m	-0.571
<a href="#">PLM03 --&gt; PLM02 (PV23)</a>	<b>Az.</b>	352°24'36"	0.503 sec	-0.247 sec	-0.637
	<b>ΔHt.</b>	28.531 m	0.006 m	-0.007 m	-0.737
	<b>Ellip Dist.</b>	4818.505 m	0.012 m	-0.004 m	-0.483

<a href="#">PLM09 --&gt; PLM05 (PV17)</a>	<b>Az.</b>	305°09'28"	1.555 sec	0.035 sec	0.030
	<b>ΔHt.</b>	-23.330 m	0.011 m	-0.007 m	-0.722
	<b>Ellip Dist.</b>	1577.821 m	0.012 m	-0.001 m	-0.116
<a href="#">26W113 --&gt; 10115PSC (PV230)</a>	<b>Az.</b>	345°41'48"	31.945 sec	-2.907 sec	-0.252
	<b>ΔHt.</b>	8.191 m	0.012 m	0.003 m	0.711
	<b>Ellip Dist.</b>	111.924 m	0.017 m	-0.003 m	-0.513
<a href="#">10116PSC --&gt; 10115PSC (PV266)</a>	<b>Az.</b>	106°00'22"	12.530 sec	-2.573 sec	-0.570
	<b>ΔHt.</b>	5.699 m	0.012 m	-0.003 m	-0.711
	<b>Ellip Dist.</b>	285.724 m	0.017 m	0.000 m	-0.041
<a href="#">26E109 --&gt; 10116PSC (PV265)</a>	<b>Az.</b>	179°30'33"	35.208 sec	-1.556 sec	-0.122
	<b>ΔHt.</b>	-3.373 m	0.013 m	-0.003 m	-0.710
	<b>Ellip Dist.</b>	101.626 m	0.017 m	-0.004 m	-0.557
<a href="#">PLM10 --&gt; PLM14 (PV129)</a>	<b>Az.</b>	163°51'28"	0.642 sec	0.177 sec	0.344
	<b>ΔHt.</b>	9.256 m	0.004 m	-0.006 m	-0.685
	<b>Ellip Dist.</b>	3663.264 m	0.011 m	0.000 m	0.001
<a href="#">PLM08 --&gt; PLM12 (PV49)</a>	<b>Az.</b>	137°08'59"	1.603 sec	-0.613 sec	-0.598
	<b>ΔHt.</b>	25.665 m	0.014 m	-0.008 m	-0.685
	<b>Ellip Dist.</b>	1724.283 m	0.013 m	0.001 m	0.090
<a href="#">26W150 --&gt; PLM13 (PV71)</a>	<b>Az.</b>	261°23'40"	3.114 sec	1.116 sec	0.523
	<b>ΔHt.</b>	10.533 m	0.001 m	-0.005 m	-0.645
	<b>Ellip Dist.</b>	842.097 m	0.013 m	-0.003 m	-0.341
<a href="#">PLM14 --&gt; PLM13 (PV21)</a>	<b>Az.</b>	257°43'59"	1.436 sec	0.436 sec	0.450
	<b>ΔHt.</b>	17.067 m	0.003 m	-0.007 m	-0.624
	<b>Ellip Dist.</b>	1851.817 m	0.013 m	0.000 m	-0.043
<a href="#">PLM03 --&gt; PLM01 (PV79)</a>	<b>Az.</b>	330°05'55"	0.518 sec	0.204 sec	0.475
	<b>ΔHt.</b>	41.818 m	0.005 m	-0.006 m	-0.578
	<b>Ellip Dist.</b>	4456.396 m	0.011 m	0.003 m	0.316
<a href="#">PLM15 --&gt; PLM16 (PV10)</a>	<b>Az.</b>	18°49'44"	2.223 sec	0.481 sec	0.314
	<b>ΔHt.</b>	-11.945 m	0.002 m	0.006 m	0.570
	<b>Ellip Dist.</b>	1175.207 m	0.013 m	-0.002 m	-0.258

<a href="#">PLM14 --&gt; PLM15 (PV142)</a>	<b>Az.</b>	57°49'39"	1.638 sec	-0.062 sec	-0.046
	<b>ΔHt.</b>	2.997 m	0.003 m	0.003 m	0.406
	<b>Ellip Dist.</b>	1421.261 m	0.011 m	-0.005 m	-0.541
<a href="#">PLM09 --&gt; PLM05 (PV106)</a>	<b>Az.</b>	305°09'28"	1.555 sec	-0.162 sec	-0.138
	<b>ΔHt.</b>	-23.330 m	0.011 m	-0.001 m	-0.164
	<b>Ellip Dist.</b>	1577.821 m	0.012 m	0.005 m	0.507
<a href="#">PLM09 --&gt; PLM06 (PV108)</a>	<b>Az.</b>	23°23'54"	0.671 sec	-0.227 sec	-0.442
	<b>ΔHt.</b>	-38.945 m	0.010 m	-0.004 m	-0.480
	<b>Ellip Dist.</b>	3627.676 m	0.012 m	0.004 m	0.418
<a href="#">PLM14 --&gt; PLM15 (PV20)</a>	<b>Az.</b>	57°49'39"	1.638 sec	-0.645 sec	-0.477
	<b>ΔHt.</b>	2.997 m	0.003 m	0.000 m	-0.026
	<b>Ellip Dist.</b>	1421.261 m	0.011 m	0.003 m	0.292
<a href="#">PLM13 --&gt; PLM10 (PV90)</a>	<b>Az.</b>	11°25'31"	0.548 sec	0.224 sec	0.463
	<b>ΔHt.</b>	-26.323 m	0.006 m	0.003 m	0.357
	<b>Ellip Dist.</b>	3991.648 m	0.011 m	0.003 m	0.365
<a href="#">PLM07 --&gt; PLM12 (PV101)</a>	<b>Az.</b>	84°36'26"	0.640 sec	-0.064 sec	-0.139
	<b>ΔHt.</b>	8.104 m	0.012 m	-0.004 m	-0.398
	<b>Ellip Dist.</b>	3983.603 m	0.012 m	-0.004 m	-0.410
<a href="#">PLM10 --&gt; PLM09 (PV107)</a>	<b>Az.</b>	230°15'05"	0.552 sec	0.119 sec	0.286
	<b>ΔHt.</b>	46.469 m	0.010 m	0.000 m	0.027
	<b>Ellip Dist.</b>	4466.359 m	0.012 m	0.002 m	0.172
<a href="#">PLM10 --&gt; PLM15 (PV144)</a>	<b>Az.</b>	141°11'25"	0.602 sec	0.126 sec	0.229
	<b>ΔHt.</b>	12.253 m	0.004 m	0.002 m	0.272
	<b>Ellip Dist.</b>	3544.423 m	0.010 m	0.001 m	0.096
<a href="#">PLM03 --&gt; PLM01 (PV29)</a>	<b>Az.</b>	330°05'55"	0.518 sec	0.026 sec	0.061
	<b>ΔHt.</b>	41.818 m	0.005 m	-0.003 m	-0.246
	<b>Ellip Dist.</b>	4456.396 m	0.011 m	0.002 m	0.173
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<b>Az.</b>	235°15'46"	0.865 sec	-0.150 sec	-0.213
	<b>ΔHt.</b>	-18.690 m	0.005 m	0.001 m	0.087
	<b>Ellip Dist.</b>	2684.496 m	0.011 m	-0.002 m	-0.216

<a href="#">PLM07 --&gt; PLM10 (PV42)</a>	<b>Az.</b>	211°36'13"	1.189 sec	0.184 sec	0.153
	<b>ΔHt.</b>	-26.086 m	0.003 m	-0.001 m	-0.100
	<b>Ellip Dist.</b>	1661.835 m	0.010 m	0.002 m	0.204

#### Covariance Terms

From Point	To Point		Components	A-posteriori Error	Horiz. Precision (Ratio)	3D Precision (Ratio)
<a href="#">126E25</a>	<a href="#">10119PSCZOO</a>	<b>Az.</b>	121°40'36"	0.000 sec	1 : 0	1 : 0
		<b>ΔHt.</b>	4.507 m	0.000 m		
		<b>ΔElev.</b>	4.517 m	0.000 m		
		<b>Ellip Dist.</b>	408.948 m	0.000 m		
<a href="#">126E109</a>	<a href="#">10116PSC</a>	<b>Az.</b>	179°30'33"	35.142 sec	1 : 5831	1 : 5835
		<b>ΔHt.</b>	-3.373 m	0.013 m		
		<b>ΔElev.</b>	-3.371 m	0.013 m		
		<b>Ellip Dist.</b>	101.626 m	0.017 m		
<a href="#">126E60</a>	<a href="#">10109PSC</a>	<b>Az.</b>	295°00'43"	22.339 sec	1 : 9267	1 : 9273
		<b>ΔHt.</b>	4.546 m	0.011 m		
		<b>ΔElev.</b>	4.543 m	0.011 m		
		<b>Ellip Dist.</b>	147.953 m	0.016 m		
<a href="#">10103PSC</a>	<a href="#">10104PSC</a>	<b>Az.</b>	253°17'24"	0.000 sec	1 : 0	1 : 0
		<b>ΔHt.</b>	-0.009 m	0.000 m		
		<b>ΔElev.</b>	-0.012 m	0.000 m		
		<b>Ellip Dist.</b>	295.466 m	0.000 m		
<a href="#">10111PSC</a>	<a href="#">36A</a>	<b>Az.</b>	77°17'07"	0.000 sec	1 : 0	1 : 0
		<b>ΔHt.</b>	-6.901 m	0.000 m		
		<b>ΔElev.</b>	-6.900 m	0.000 m		
		<b>Ellip Dist.</b>	98.477 m	0.000 m		
<a href="#">10112PSC</a>	<a href="#">36A</a>	<b>Az.</b>	261°27'43"	0.000 sec	1 : 0	1 : 0
		<b>ΔHt.</b>	0.814 m	0.000 m		
		<b>ΔElev.</b>	0.811 m	0.000 m		
		<b>Ellip Dist.</b>	282.111 m	0.000 m		
<a href="#">10112PSC</a>	<a href="#">7757D</a>	<b>Az.</b>	44°15'40"	0.000 sec	1 : 0	1 : 0
		<b>ΔHt.</b>	0.823 m	0.000 m		
		<b>ΔElev.</b>	0.823 m	0.000 m		
		<b>Ellip Dist.</b>	70.038 m	0.000 m		
<a href="#">10115PSC</a>	<a href="#">10116PSC</a>	<b>Az.</b>	286°00'28"	12.561 sec	1 : 16504	1 : 16510
		<b>ΔHt.</b>	-5.698 m	0.012 m		
		<b>ΔElev.</b>	-5.704 m	0.012 m		
		<b>Ellip Dist.</b>	285.724 m	0.017 m		

<a href="#">10115PSC</a>	<a href="#">26W113</a>	<b>Az.</b>	165°41'48"	31.894 sec	1 : 6431	1 : 6456
		<b>ΔHt.</b>	-8.191 m	0.012 m		
		<b>ΔElev.</b>	-8.188 m	0.012 m		
		<b>Ellip Dist.</b>	111.924 m	0.017 m		
<a href="#">10120PSC</a>	<a href="#">10119PSCZOO</a>	<b>Az.</b>	178°01'36"	0.000 sec	1 : 0	1 : 0
		<b>ΔHt.</b>	-4.888 m	0.000 m		
		<b>ΔElev.</b>	-4.883 m	0.000 m		
		<b>Ellip Dist.</b>	229.184 m	0.000 m		
<a href="#">10121PSC</a>	<a href="#">10122PSC</a>	<b>Az.</b>	61°24'54"	13.761 sec	1 : 15004	1 : 15007
		<b>ΔHt.</b>	-4.068 m	0.013 m		
		<b>ΔElev.</b>	-4.067 m	0.013 m		
		<b>Ellip Dist.</b>	269.179 m	0.018 m		
<a href="#">10128PSC</a>	<a href="#">10127PSC</a>	<b>Az.</b>	227°30'35"	19.080 sec	1 : 10852	1 : 10866
		<b>ΔHt.</b>	8.226 m	0.014 m		
		<b>ΔElev.</b>	8.226 m	0.014 m		
		<b>Ellip Dist.</b>	195.410 m	0.018 m		
<a href="#">10205MSC</a>	<a href="#">10103PSC</a>	<b>Az.</b>	3°17'22"	18.874 sec	1 : 10882	1 : 10897
		<b>ΔHt.</b>	6.702 m	0.011 m		
		<b>ΔElev.</b>	6.699 m	0.011 m		
		<b>Ellip Dist.</b>	163.903 m	0.015 m		
<a href="#">26W20</a>	<a href="#">10205MSC</a>	<b>Az.</b>	293°56'29"	31.562 sec	1 : 6559	1 : 6559
		<b>ΔHt.</b>	0.644 m	0.011 m		
		<b>ΔElev.</b>	0.643 m	0.011 m		
		<b>Ellip Dist.</b>	98.401 m	0.015 m		
<a href="#">26W60</a>	<a href="#">26E60</a>	<b>Az.</b>	229°21'03"	0.000 sec	1 : 0	1 : 0
		<b>ΔHt.</b>	0.040 m	0.000 m		
		<b>ΔElev.</b>	0.040 m	0.000 m		
		<b>Ellip Dist.</b>	30.065 m	0.000 m		
<a href="#">26W60</a>	<a href="#">10110PSC</a>	<b>Az.</b>	19°57'21"	0.000 sec	1 : 0	1 : 0
		<b>ΔHt.</b>	5.741 m	0.000 m		
		<b>ΔElev.</b>	5.739 m	0.000 m		
		<b>Ellip Dist.</b>	160.218 m	0.000 m		
<a href="#">PLM01</a>	<a href="#">10104PSC</a>	<b>Az.</b>	41°28'11"	2.343 sec	1 : 87959	1 : 87962
		<b>ΔHt.</b>	-8.222 m	0.000 m		
		<b>ΔElev.</b>	-8.224 m	0.000 m		
		<b>Ellip Dist.</b>	1234.534 m	0.014 m		
<a href="#">PLM02</a>	<a href="#">26W20</a>	<b>Az.</b>	255°10'08"	5.970 sec	1 : 34703	1 : 34704
		<b>ΔHt.</b>	-2.270 m	0.000 m		
		<b>ΔElev.</b>	-2.274 m	0.000 m		
		<b>Ellip Dist.</b>	417.756 m	0.012 m		

<a href="#">PLM02</a>	<a href="#">COLA</a>	<b>Az.</b>	113°47'54"	0.535 sec	1 : 386713	1 : 386718
		<b>ΔHt.</b>	13.274 m	0.000 m		
		<b>ΔElev.</b>	13.359 m	0.000 m		
		<b>Ellip Dist.</b>	4656.776 m	0.012 m		
<a href="#">PLM02</a>	<a href="#">PLM01</a>	<b>Az.</b>	240°03'07"	1.428 sec	1 : 145014	1 : 145020
		<b>ΔHt.</b>	13.289 m	0.000 m		
		<b>ΔElev.</b>	13.280 m	0.000 m		
		<b>Ellip Dist.</b>	1829.297 m	0.013 m		
<a href="#">PLM02</a>	<a href="#">PLM03</a>	<b>Az.</b>	172°24'22"	0.563 sec	1 : 364303	1 : 364317
		<b>ΔHt.</b>	-28.531 m	0.000 m		
		<b>ΔElev.</b>	-28.441 m	0.000 m		
		<b>Ellip Dist.</b>	4818.504 m	0.013 m		
<a href="#">PLM02</a>	<a href="#">PLM04</a>	<b>Az.</b>	138°47'33"	0.544 sec	1 : 378679	1 : 378684
		<b>ΔHt.</b>	-9.844 m	0.000 m		
		<b>ΔElev.</b>	-9.754 m	0.000 m		
		<b>Ellip Dist.</b>	4314.509 m	0.011 m		
<a href="#">PLM03</a>	<a href="#">10109PSC</a>	<b>Az.</b>	49°18'50"	1.586 sec	1 : 130156	1 : 130160
		<b>ΔHt.</b>	11.528 m	0.011 m		
		<b>ΔElev.</b>	11.523 m	0.011 m		
		<b>Ellip Dist.</b>	2138.022 m	0.016 m		
<a href="#">PLM03</a>	<a href="#">PLM01</a>	<b>Az.</b>	330°05'55"	0.575 sec	1 : 357830	1 : 357864
		<b>ΔHt.</b>	41.820 m	0.000 m		
		<b>ΔElev.</b>	41.721 m	0.000 m		
		<b>Ellip Dist.</b>	4456.395 m	0.012 m		
<a href="#">PLM03</a>	<a href="#">PLM04</a>	<b>Az.</b>	55°14'58"	0.914 sec	1 : 226157	1 : 226166
		<b>ΔHt.</b>	18.687 m	0.000 m		
		<b>ΔElev.</b>	18.687 m	0.000 m		
		<b>Ellip Dist.</b>	2684.496 m	0.012 m		
<a href="#">PLM04</a>	<a href="#">10110PSC</a>	<b>Az.</b>	265°36'44"	4.940 sec	1 : 42002	1 : 42013
		<b>ΔHt.</b>	-6.004 m	0.000 m		
		<b>ΔElev.</b>	-6.008 m	0.000 m		
		<b>Ellip Dist.</b>	374.000 m	0.009 m		
<a href="#">PLM04</a>	<a href="#">COLA</a>	<b>Az.</b>	46°04'45"	0.935 sec	1 : 220608	1 : 220637
		<b>ΔHt.</b>	23.119 m	0.000 m		
		<b>ΔElev.</b>	23.113 m	0.000 m		
		<b>Ellip Dist.</b>	1969.849 m	0.009 m		
<a href="#">PLM04</a>	<a href="#">PLM07</a>	<b>Az.</b>	128°27'08"	0.500 sec	1 : 413296	1 : 413300
		<b>ΔHt.</b>	5.726 m	0.000 m		
		<b>ΔElev.</b>	5.831 m	0.000 m		
		<b>Ellip Dist.</b>	4439.536 m	0.011 m		



<a href="#">PLM04</a>	<a href="#">PLM08</a>	<b>Az.</b>	100°08'36"	0.503 sec	1 : 412537	1 : 412535
		<b>ΔHt.</b>	-11.839 m	0.012 m		
		<b>ΔElev.</b>	-11.724 m	0.012 m		
		<b>Ellip Dist.</b>	6368.591 m	0.015 m		
<a href="#">PLM05</a>	<a href="#">10127PSC</a>	<b>Az.</b>	75°45'23"	1.863 sec	1 : 110538	1 : 110543
		<b>ΔHt.</b>	4.073 m	0.015 m		
		<b>ΔElev.</b>	4.093 m	0.015 m		
		<b>Ellip Dist.</b>	2070.781 m	0.019 m		
<a href="#">PLM05</a>	<a href="#">PLM01</a>	<b>Az.</b>	344°42'46"	0.405 sec	1 : 506109	1 : 506110
		<b>ΔHt.</b>	20.347 m	0.012 m		
		<b>ΔElev.</b>	20.161 m	0.012 m		
		<b>Ellip Dist.</b>	8768.415 m	0.017 m		
<a href="#">PLM05</a>	<a href="#">PLM03</a>	<b>Az.</b>	358°52'25"	0.615 sec	1 : 333210	1 : 333216
		<b>ΔHt.</b>	-21.473 m	0.012 m		
		<b>ΔElev.</b>	-21.560 m	0.012 m		
		<b>Ellip Dist.</b>	4595.841 m	0.014 m		
<a href="#">PLM05</a>	<a href="#">PLM09</a>	<b>Az.</b>	125°09'00"	1.540 sec	1 : 134124	1 : 134140
		<b>ΔHt.</b>	23.329 m	0.011 m		
		<b>ΔElev.</b>	23.363 m	0.011 m		
		<b>Ellip Dist.</b>	1577.820 m	0.012 m		
<a href="#">PLM06</a>	<a href="#">10111PSC</a>	<b>Az.</b>	41°53'49"	1.580 sec	1 : 130425	1 : 130424
		<b>ΔHt.</b>	-0.118 m	0.000 m		
		<b>ΔElev.</b>	-0.125 m	0.000 m		
		<b>Ellip Dist.</b>	1297.381 m	0.010 m		
<a href="#">PLM06</a>	<a href="#">10128PSC</a>	<b>Az.</b>	198°02'29"	2.015 sec	1 : 102245	1 : 102241
		<b>ΔHt.</b>	11.466 m	0.014 m		
		<b>ΔElev.</b>	11.490 m	0.014 m		
		<b>Ellip Dist.</b>	1871.482 m	0.018 m		
<a href="#">PLM06</a>	<a href="#">PLM03</a>	<b>Az.</b>	307°38'14"	0.680 sec	1 : 304198	1 : 304201
		<b>ΔHt.</b>	-5.854 m	0.000 m		
		<b>ΔElev.</b>	-5.937 m	0.000 m		
		<b>Ellip Dist.</b>	3561.072 m	0.012 m		
<a href="#">PLM06</a>	<a href="#">PLM04</a>	<b>Az.</b>	350°35'26"	0.607 sec	1 : 338422	1 : 338427
		<b>ΔHt.</b>	12.832 m	0.000 m		
		<b>ΔElev.</b>	12.750 m	0.000 m		
		<b>Ellip Dist.</b>	3754.630 m	0.011 m		
<a href="#">PLM06</a>	<a href="#">PLM05</a>	<b>Az.</b>	228°27'01"	0.741 sec	1 : 278862	1 : 278861
		<b>ΔHt.</b>	15.619 m	0.012 m		
		<b>ΔElev.</b>	15.623 m	0.012 m		
		<b>Ellip Dist.</b>	3649.172 m	0.013 m		

<a href="#">PLM06</a>	<a href="#">PLM07</a>	Az.	71°45'57"	0.781 sec	1 : 265299	1 : 265308
		ΔHt.	18.558 m	0.000 m		
		ΔElev.	18.581 m	0.000 m		
		Ellip Dist.	3014.045 m	0.011 m		
<a href="#">PLM06</a>	<a href="#">PLM09</a>	Az.	203°24'26"	0.735 sec	1 : 279815	1 : 279829
		ΔHt.	38.947 m	0.011 m		
		ΔElev.	38.987 m	0.011 m		
		Ellip Dist.	3627.675 m	0.013 m		
<a href="#">PLM06</a>	<a href="#">PLM10</a>	Az.	103°20'36"	0.983 sec	1 : 210871	1 : 210874
		ΔHt.	-7.526 m	0.000 m		
		ΔElev.	-7.486 m	0.000 m		
		Ellip Dist.	2047.529 m	0.010 m		
<a href="#">PLM07</a>	<a href="#">7757D</a>	Az.	274°58'27"	1.254 sec	1 : 165499	1 : 165543
		ΔHt.	-25.568 m	0.000 m		
		ΔElev.	-25.594 m	0.000 m		
		Ellip Dist.	1578.304 m	0.010 m		
<a href="#">PLM07</a>	<a href="#">PLM08</a>	Az.	59°36'24"	0.828 sec	1 : 250058	1 : 250066
		ΔHt.	-17.564 m	0.012 m		
		ΔElev.	-17.555 m	0.012 m		
		Ellip Dist.	3237.919 m	0.013 m		
<a href="#">PLM07</a>	<a href="#">PLM11</a>	Az.	140°56'19"	1.368 sec	1 : 150712	1 : 150713
		ΔHt.	1.450 m	0.000 m		
		ΔElev.	1.496 m	0.000 m		
		Ellip Dist.	1741.814 m	0.012 m		
<a href="#">PLM08</a>	<a href="#">10121PSC</a>	Az.	163°21'30"	4.259 sec	1 : 48356	1 : 48375
		ΔHt.	-20.806 m	0.015 m		
		ΔElev.	-20.783 m	0.015 m		
		Ellip Dist.	872.490 m	0.018 m		
<a href="#">PLM08</a>	<a href="#">COLA</a>	Az.	297°11'40"	0.540 sec	1 : 383176	1 : 383166
		ΔHt.	34.957 m	0.012 m		
		ΔElev.	34.837 m	0.012 m		
		Ellip Dist.	5451.079 m	0.014 m		
<a href="#">PLM10</a>	<a href="#">26E109</a>	Az.	63°12'11"	6.085 sec	1 : 34004	1 : 34003
		ΔHt.	-0.318 m	0.000 m		
		ΔElev.	-0.317 m	0.000 m		
		Ellip Dist.	288.619 m	0.008 m		
<a href="#">PLM10</a>	<a href="#">PLM07</a>	Az.	31°35'54"	1.188 sec	1 : 173110	1 : 173152
		ΔHt.	26.084 m	0.000 m		
		ΔElev.	26.067 m	0.000 m		
		Ellip Dist.	1661.834 m	0.010 m		

<a href="#">PLM10</a>	<a href="#">PLM09</a>	Az.	230°15'05"	0.651 sec	1 : 317534	1 : 317553
		ΔHt.	46.473 m	0.011 m		
		ΔElev.	46.473 m	0.011 m		
		Ellip Dist.	4466.358 m	0.014 m		
<a href="#">PLM10</a>	<a href="#">PLM11</a>	Az.	88°09'52"	1.235 sec	1 : 168086	1 : 168119
		ΔHt.	27.535 m	0.000 m		
		ΔElev.	27.563 m	0.000 m		
		Ellip Dist.	1969.478 m	0.012 m		
<a href="#">PLM10</a>	<a href="#">PLM14</a>	Az.	163°51'28"	0.656 sec	1 : 312673	1 : 312676
		ΔHt.	9.255 m	0.000 m		
		ΔElev.	9.342 m	0.000 m		
		Ellip Dist.	3663.263 m	0.012 m		
<a href="#">PLM10</a>	<a href="#">PLM16</a>	Az.	122°23'17"	0.793 sec	1 : 260982	1 : 260983
		ΔHt.	0.305 m	0.000 m		
		ΔElev.	0.381 m	0.000 m		
		Ellip Dist.	3079.485 m	0.012 m		
<a href="#">PLM11</a>	<a href="#">26W113</a>	Az.	261°03'25"	1.721 sec	1 : 120616	1 : 120683
		ΔHt.	-33.718 m	0.000 m		
		ΔElev.	-33.735 m	0.000 m		
		Ellip Dist.	1425.034 m	0.012 m		
<a href="#">PLM12</a>	<a href="#">10122PSC</a>	Az.	309°03'50"	4.233 sec	1 : 49153	1 : 49259
		ΔHt.	-50.537 m	0.015 m		
		ΔElev.	-50.557 m	0.015 m		
		Ellip Dist.	883.973 m	0.018 m		
<a href="#">PLM12</a>	<a href="#">PLM07</a>	Az.	264°37'53"	0.712 sec	1 : 291345	1 : 291345
		ΔHt.	-8.099 m	0.013 m		
		ΔElev.	-8.151 m	0.013 m		
		Ellip Dist.	3983.602 m	0.014 m		
<a href="#">PLM12</a>	<a href="#">PLM08</a>	Az.	317°09'25"	1.578 sec	1 : 130597	1 : 130652
		ΔHt.	-25.664 m	0.013 m		
		ΔElev.	-25.706 m	0.013 m		
		Ellip Dist.	1724.282 m	0.013 m		
<a href="#">PLM12</a>	<a href="#">PLM11</a>	Az.	238°58'28"	0.878 sec	1 : 235511	1 : 235506
		ΔHt.	-6.649 m	0.013 m		
		ΔElev.	-6.655 m	0.013 m		
		Ellip Dist.	3348.068 m	0.014 m		
<a href="#">PLM13</a>	<a href="#">26W150</a>	Az.	81°23'22"	3.149 sec	1 : 65821	1 : 65831
		ΔHt.	-10.534 m	0.000 m		
		ΔElev.	-10.522 m	0.000 m		
		Ellip Dist.	842.097 m	0.013 m		

<a href="#">PLM13</a>	<a href="#">PLM09</a>	Az.	291°47'09"	0.994 sec	1 : 208224	1 : 208234
		ΔHt.	20.149 m	0.011 m		
		ΔElev.	20.086 m	0.011 m		
		Ellip Dist.	2846.344 m	0.014 m		
<a href="#">PLM13</a>	<a href="#">PLM10</a>	Az.	11°25'31"	0.600 sec	1 : 342241	1 : 342255
		ΔHt.	-26.324 m	0.000 m		
		ΔElev.	-26.387 m	0.000 m		
		Ellip Dist.	3991.646 m	0.012 m		
<a href="#">PLM13</a>	<a href="#">PLM14</a>	Az.	77°43'20"	1.469 sec	1 : 141209	1 : 141221
		ΔHt.	-17.069 m	0.000 m		
		ΔElev.	-17.045 m	0.000 m		
		Ellip Dist.	1851.817 m	0.013 m		
<a href="#">PLM14</a>	<a href="#">26W150</a>	Az.	254°41'05"	2.546 sec	1 : 81394	1 : 81397
		ΔHt.	6.535 m	0.000 m		
		ΔElev.	6.523 m	0.000 m		
		Ellip Dist.	1012.877 m	0.012 m		
<a href="#">PLM15</a>	<a href="#">126E25</a>	Az.	30°22'28"	2.683 sec	1 : 76687	1 : 76741
		ΔHt.	-24.388 m	0.000 m		
		ΔElev.	-24.396 m	0.000 m		
		Ellip Dist.	915.902 m	0.012 m		
<a href="#">PLM15</a>	<a href="#">PLM10</a>	Az.	321°12'14"	0.630 sec	1 : 326784	1 : 326790
		ΔHt.	-12.250 m	0.000 m		
		ΔElev.	-12.342 m	0.000 m		
		Ellip Dist.	3544.422 m	0.011 m		
<a href="#">PLM15</a>	<a href="#">PLM14</a>	Az.	237°50'06"	1.647 sec	1 : 125703	1 : 125703
		ΔHt.	-2.995 m	0.000 m		
		ΔElev.	-3.000 m	0.000 m		
		Ellip Dist.	1421.261 m	0.011 m		
<a href="#">PLM15</a>	<a href="#">PLM16</a>	Az.	18°49'45"	2.223 sec	1 : 92373	1 : 92382
		ΔHt.	-11.945 m	0.000 m		
		ΔElev.	-11.961 m	0.000 m		
		Ellip Dist.	1175.207 m	0.013 m		
<a href="#">PLM16</a>	<a href="#">10120PSC</a>	Az.	125°59'03"	4.807 sec	1 : 43037	1 : 43039
		ΔHt.	-3.048 m	0.000 m		
		ΔElev.	-3.035 m	0.000 m		
		Ellip Dist.	523.918 m	0.012 m		
<a href="#">PLM16</a>	<a href="#">PLM11</a>	Az.	339°45'40"	1.420 sec	1 : 144695	1 : 144727
		ΔHt.	27.229 m	0.000 m		
		ΔElev.	27.182 m	0.000 m		
		Ellip Dist.	1825.494 m	0.013 m		

<a href="#">PLM16</a>	<a href="#">PLM12</a>	<b>Az.</b>	33°02'40"	0.743 sec	1 : 277035	1 : 277018
		<b>ΔHt.</b>	33.879 m	0.013 m		
		<b>ΔElev.</b>	33.837 m	0.013 m		
		<b>Ellip Dist.</b>	4102.745 m	0.015 m		

Date: 12/12/2019 8:26:21 AM	Project: C:\Users\bmoravec\Documents\Trimble Business Center\SCDOT_CCR_StaticPLMs_2.vce	Trimble Business Center
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## Carolina Crossroads Project Localization Monuments

ESP Associates, Inc.

Project File Data		Coordinate System	
Name:	C:\Users\bmoravec\Documents\Trimble Business Center\SCDOT_CCR_StaticPLMs_2.vce	Name:	US State Plane 1983
Size:	261 KB	Datum:	NAD 1983 (Conus)
Modified:	12/12/2019 1:41:24 PM (UTC:-5)	Zone:	South Carolina 3900
Time zone:	Eastern Standard Time	Geoid:	GEOID12B (Conus)
Reference number:	HN42.003.000	Vertical datum:	NAVD88
Description:		Calibrated site:	

## GNSS Loop Closure Results

### Loop: PLM05-PLM03-PLM04-COLA-PLM02-PLM01

Vector ID	From	To	Start Time
<a href="#">PLM05 --&gt; PLM03 (PV8)</a>	<a href="#">PLM05</a>	<a href="#">PLM03</a>	9/16/2019 11:07:12 AM
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<a href="#">PLM04</a>	<a href="#">PLM03</a>	9/16/2019 6:38:27 PM
<a href="#">COLA --&gt; PLM04 (PV330)</a>	<a href="#">COLA</a>	<a href="#">PLM04</a>	9/18/2019 2:25:27 PM
<a href="#">COLA --&gt; PLM02 (PV326)</a>	<a href="#">COLA</a>	<a href="#">PLM02</a>	9/18/2019 2:29:27 PM
<a href="#">PLM01 --&gt; PLM02 (PV44)</a>	<a href="#">PLM01</a>	<a href="#">PLM02</a>	9/16/2019 10:59:12 AM
<a href="#">PLM01 --&gt; PLM05 (PV77)</a>	<a href="#">PLM01</a>	<a href="#">PLM05</a>	9/17/2019 2:31:27 PM
<a href="#">PV8-PV25-PV330-PV326-PV44-PV77</a>			
Length = 24505.291 m		$\Delta$ Horiz = 0.028 m	$\Delta$ Vert = -0.023 m PPM = 1.480
$\Delta$ 3D = 0.036 m		$\Delta$ X = 0.007 m	$\Delta$ Y = 0.035 m $\Delta$ Z = 0.008 m

### Loop: PLM06-PLM05-PLM03-PLM04-COLA-PLM08-PLM07

Vector ID	From	To	Start Time
<a href="#">PLM06 --&gt; PLM05 (PV75)</a>	<a href="#">PLM06</a>	<a href="#">PLM05</a>	9/17/2019 10:59:57 AM
<a href="#">PLM05 --&gt; PLM03 (PV8)</a>	<a href="#">PLM05</a>	<a href="#">PLM03</a>	9/16/2019 11:07:12 AM
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<a href="#">PLM04</a>	<a href="#">PLM03</a>	9/16/2019 6:38:27 PM
<a href="#">COLA --&gt; PLM04 (PV330)</a>	<a href="#">COLA</a>	<a href="#">PLM04</a>	9/18/2019 2:25:27 PM
<a href="#">COLA --&gt; PLM08 (PV338)</a>	<a href="#">COLA</a>	<a href="#">PLM08</a>	9/18/2019 2:29:57 PM
<a href="#">PLM07 --&gt; PLM08 (PV54)</a>	<a href="#">PLM07</a>	<a href="#">PLM08</a>	9/16/2019 5:13:12 PM
<a href="#">PLM06 --&gt; PLM07 (PV104)</a>	<a href="#">PLM06</a>	<a href="#">PLM07</a>	9/17/2019 7:46:42 AM
<a href="#">PV75-PV8-PV25-PV330-PV338-PV54-PV104</a>			
Length = 24603.144 m		$\Delta$ Horiz = 0.032 m	$\Delta$ Vert = 0.012 m PPM = 1.394
$\Delta$ 3D = 0.034 m		$\Delta$ X = 0.033 m	$\Delta$ Y = -0.002 m $\Delta$ Z = 0.011 m

**Loop: PLM06-PLM05-PLM09-PLM10-PLM11-PLM12-PLM08-PLM07**

Vector ID	From	To	Start Time
<a href="#">PLM06 --&gt; PLM05 (PV75)</a>	<a href="#">PLM06</a>	<a href="#">PLM05</a>	9/17/2019 10:59:57 AM
<a href="#">PLM09 --&gt; PLM05 (PV106)</a>	<a href="#">PLM09</a>	<a href="#">PLM05</a>	9/17/2019 10:59:57 AM
<a href="#">PLM10 --&gt; PLM09 (PV107)</a>	<a href="#">PLM10</a>	<a href="#">PLM09</a>	9/17/2019 10:57:57 AM
<a href="#">PLM10 --&gt; PLM11 (PV139)</a>	<a href="#">PLM10</a>	<a href="#">PLM11</a>	9/17/2019 4:15:12 PM
<a href="#">PLM12 --&gt; PLM11 (PV137)</a>	<a href="#">PLM12</a>	<a href="#">PLM11</a>	9/17/2019 4:15:12 PM
<a href="#">PLM08 --&gt; PLM12 (PV49)</a>	<a href="#">PLM08</a>	<a href="#">PLM12</a>	9/16/2019 2:36:57 PM
<a href="#">PLM07 --&gt; PLM08 (PV54)</a>	<a href="#">PLM07</a>	<a href="#">PLM08</a>	9/16/2019 5:13:12 PM
<a href="#">PLM06 --&gt; PLM07 (PV104)</a>	<a href="#">PLM06</a>	<a href="#">PLM07</a>	9/17/2019 7:46:42 AM
<a href="#">PV75-PV106-PV107-PV139-PV137-PV49-PV54-PV104</a>			
Length = 22988.286 m ΔHoriz = 0.017 m Avert = -0.002 m PPM = 0.759			
Δ3D = 0.017 m ΔX = 0.008 m ΔY = 0.011 m ΔZ = 0.011 m			

**Loop: PLM13-PLM09-PLM10-PLM11-PLM12-PLM16-PLM15-PLM14**

Vector ID	From	To	Start Time
<a href="#">PLM09 --&gt; PLM13 (PV275)</a>	<a href="#">PLM09</a>	<a href="#">PLM13</a>	9/18/2019 10:58:12 AM
<a href="#">PLM10 --&gt; PLM09 (PV107)</a>	<a href="#">PLM10</a>	<a href="#">PLM09</a>	9/17/2019 10:57:57 AM
<a href="#">PLM10 --&gt; PLM11 (PV139)</a>	<a href="#">PLM10</a>	<a href="#">PLM11</a>	9/17/2019 4:15:12 PM
<a href="#">PLM12 --&gt; PLM11 (PV137)</a>	<a href="#">PLM12</a>	<a href="#">PLM11</a>	9/17/2019 4:15:12 PM
<a href="#">PLM16 --&gt; PLM12 (PV33)</a>	<a href="#">PLM16</a>	<a href="#">PLM12</a>	9/16/2019 2:36:57 PM
<a href="#">PLM15 --&gt; PLM16 (PV10)</a>	<a href="#">PLM15</a>	<a href="#">PLM16</a>	9/16/2019 2:30:57 PM
<a href="#">PLM14 --&gt; PLM15 (PV20)</a>	<a href="#">PLM14</a>	<a href="#">PLM15</a>	9/16/2019 2:31:27 PM
<a href="#">PLM14 --&gt; PLM13 (PV21)</a>	<a href="#">PLM14</a>	<a href="#">PLM13</a>	9/16/2019 2:34:27 PM
<a href="#">PV275-PV107-PV139-PV137-PV33-PV10-PV20-PV21</a>			
Length = 21182.276 m Δhoriz = 0.003 m Avert = -0.009 m PPM = 0.470			
Δ3D = 0.010 m ΔX = 0.001 m ΔY = 0.007 m ΔZ = -0.007 m			

**Loop: PLM02-PLM04-PLM03-PLM01-10104PSC-10103PSC-10205MSC-26W20**

Vector ID	From	To	Start Time
<a href="#">PLM02 --&gt; PLM04 (PV81)</a>	<a href="#">PLM02</a>	<a href="#">PLM04</a>	9/17/2019 6:01:27 PM
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<a href="#">PLM04</a>	<a href="#">PLM03</a>	9/16/2019 6:38:27 PM
<a href="#">PLM03 --&gt; PLM01 (PV29)</a>	<a href="#">PLM03</a>	<a href="#">PLM01</a>	9/16/2019 10:56:27 AM
<a href="#">10104PSC --&gt; PLM01 (PV299)</a>	<a href="#">10104PSC</a>	<a href="#">PLM01</a>	9/18/2019 9:28:27 PM
<a href="#">10104PSC --&gt; 10103PSC (PV256)</a>	<a href="#">10104PSC</a>	<a href="#">10103PSC</a>	9/18/2019 9:28:27 PM
<a href="#">10103PSC --&gt; 10205MSC (PV223)</a>	<a href="#">10103PSC</a>	<a href="#">10205MSC</a>	9/18/2019 9:28:12 PM
<a href="#">26W20 --&gt; 10205MSC (PV195)</a>	<a href="#">26W20</a>	<a href="#">10205MSC</a>	9/18/2019 9:28:12 PM
<a href="#">26W20 --&gt; PLM02 (PV175)</a>	<a href="#">26W20</a>	<a href="#">PLM02</a>	9/18/2019 9:27:42 PM
<a href="#">PV81-PV25-PV29-PV299-PV256-PV223-PV195-PV175</a>			
Length = 13666.012 m Δhoriz = 0.005 m Avert = -0.010 m PPM = 0.860			
Δ3D = 0.012 m ΔX = -0.004 m ΔY = 0.006 m ΔZ = -0.009 m			

**Loop: PLM02-PLM04-10110PSC-26W60-`26E60-10109PSC-PLM03-PLM01**

Vector ID	From	To	Start Time
<a href="#">PLM02 --&gt; PLM04 (PV81)</a>	<a href="#">PLM02</a>	<a href="#">PLM04</a>	9/17/2019 6:01:27 PM
<a href="#">10110PSC --&gt; PLM04 (PV228)</a>	<a href="#">10110PSC</a>	<a href="#">PLM04</a>	9/18/2019 10:21:12 PM
<a href="#">10110PSC --&gt; 26W60 (PV227)</a>	<a href="#">10110PSC</a>	<a href="#">26W60</a>	9/18/2019 10:34:12 PM
<a href="#">`26E60 --&gt; 26W60 (PV197)</a>	<a href="#">`26E60</a>	<a href="#">26W60</a>	9/18/2019 10:34:12 PM
<a href="#">10109PSC --&gt; `26E60 (PV261)</a>	<a href="#">10109PSC</a>	<a href="#">`26E60</a>	9/18/2019 10:15:57 PM
<a href="#">10109PSC --&gt; PLM03 (PV304)</a>	<a href="#">10109PSC</a>	<a href="#">PLM03</a>	9/18/2019 10:15:57 PM
<a href="#">PLM03 --&gt; PLM01 (PV29)</a>	<a href="#">PLM03</a>	<a href="#">PLM01</a>	9/16/2019 10:56:27 AM
<a href="#">PLM01 --&gt; PLM02 (PV44)</a>	<a href="#">PLM01</a>	<a href="#">PLM02</a>	9/16/2019 10:59:12 AM
<a href="#">PV81-PV228-PV227-PV197-PV261-PV304-PV29-PV44</a>			
Length = 13451.091 m Δhoriz = 0.008 m Avert = -0.011 m PPM = 1.018			
Δ3D = 0.014 m ΔX = -0.007 m ΔY = 0.006 m ΔZ = -0.011 m			



Loop: PLM06-PLM04-PLM03-PLM05-10127PSC-10128PSC				
Vector ID	From	To	Start Time	
<a href="#">PLM06 --&gt; PLM04 (PV15)</a>	<a href="#">PLM06</a>	<a href="#">PLM04</a>	9/16/2019 6:37:42 PM	
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<a href="#">PLM04</a>	<a href="#">PLM03</a>	9/16/2019 6:38:27 PM	
<a href="#">PLM05 --&gt; PLM03 (PV8)</a>	<a href="#">PLM05</a>	<a href="#">PLM03</a>	9/16/2019 11:07:12 AM	
<a href="#">10127PSC --&gt; PLM05 (PV85)</a>	<a href="#">10127PSC</a>	<a href="#">PLM05</a>	9/17/2019 9:00:27 PM	
<a href="#">10127PSC --&gt; 10128PSC (PV84)</a>	<a href="#">10127PSC</a>	<a href="#">10128PSC</a>	9/17/2019 8:52:27 PM	
<a href="#">10128PSC --&gt; PLM06 (PV150)</a>	<a href="#">10128PSC</a>	<a href="#">PLM06</a>	9/17/2019 8:56:12 PM	
<a href="#">PV15-PV25-PV8-PV85-PV84-PV150</a>	Length = 15173.149 m	Δhoriz = 0.006 m	Δvert = 0.018 m	PPM = 1.282
	Δ3D = 0.019 m	ΔX = 0.009 m	ΔY = -0.014 m	ΔZ = 0.010 m

Loop: PLM06-PLM03-PLM04-PLM07-7757D-10112PSC-36A-10111PSC				
Vector ID	From	To	Start Time	
<a href="#">PLM06 --&gt; PLM03 (PV114)</a>	<a href="#">PLM06</a>	<a href="#">PLM03</a>	9/17/2019 4:24:27 PM	
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<a href="#">PLM04</a>	<a href="#">PLM03</a>	9/16/2019 6:38:27 PM	
<a href="#">PLM04 --&gt; PLM07 (PV37)</a>	<a href="#">PLM04</a>	<a href="#">PLM07</a>	9/16/2019 5:13:12 PM	
<a href="#">7757D --&gt; PLM07 (PV274)</a>	<a href="#">7757D</a>	<a href="#">PLM07</a>	9/19/2019 1:12:27 AM	
<a href="#">7757D --&gt; 10112PSC (PV273)</a>	<a href="#">7757D</a>	<a href="#">10112PSC</a>	9/19/2019 1:08:27 AM	
<a href="#">36A --&gt; 10112PSC (PV233)</a>	<a href="#">36A</a>	<a href="#">10112PSC</a>	9/19/2019 1:06:57 AM	
<a href="#">10111PSC --&gt; 36A (PV232)</a>	<a href="#">10111PSC</a>	<a href="#">36A</a>	9/19/2019 1:14:27 AM	
<a href="#">10111PSC --&gt; PLM06 (PV320)</a>	<a href="#">10111PSC</a>	<a href="#">PLM06</a>	9/19/2019 1:14:27 AM	
<a href="#">PV114-PV25-PV37-PV274-PV273-PV233-PV232-PV320</a>	Length = 14012.058 m	Δhoriz = 0.009 m	Δvert = 0.031 m	PPM = 2.304
	Δ3D = 0.032 m	ΔX = 0.007 m	ΔY = -0.030 m	ΔZ = 0.010 m

Loop: PLM04-PLM07-PLM11-PLM12-10122PSC-10121PSC-PLM08				
Vector ID	From	To	Start Time	
<a href="#">PLM04 --&gt; PLM07 (PV37)</a>	<a href="#">PLM04</a>	<a href="#">PLM07</a>	9/16/2019 5:13:12 PM	
<a href="#">PLM07 --&gt; PLM11 (PV59)</a>	<a href="#">PLM07</a>	<a href="#">PLM11</a>	9/16/2019 6:45:12 PM	
<a href="#">PLM12 --&gt; PLM11 (PV137)</a>	<a href="#">PLM12</a>	<a href="#">PLM11</a>	9/17/2019 4:15:12 PM	
<a href="#">10122PSC --&gt; PLM12 (PV83)</a>	<a href="#">10122PSC</a>	<a href="#">PLM12</a>	9/17/2019 8:00:57 PM	
<a href="#">10122PSC --&gt; 10121PSC (PV82)</a>	<a href="#">10122PSC</a>	<a href="#">10121PSC</a>	9/17/2019 7:50:42 PM	
<a href="#">10121PSC --&gt; PLM08 (PV147)</a>	<a href="#">10121PSC</a>	<a href="#">PLM08</a>	9/17/2019 7:53:12 PM	
<a href="#">PLM04 --&gt; PLM08 (PV109)</a>	<a href="#">PLM04</a>	<a href="#">PLM08</a>	9/17/2019 2:26:27 PM	
<a href="#">PV37-PV59-PV137-PV83-PV82-PV147-PV109</a>	Length = 17925.575 m	Δhoriz = 0.020 m	Δvert = 0.017 m	PPM = 1.475
	Δ3D = 0.026 m	ΔX = -0.007 m	ΔY = -0.025 m	ΔZ = -0.005 m

Loop: PLM10-PLM07-PLM12-PLM11-26W113-10115PSC-10116PSC-`26E109				
Vector ID	From	To	Start Time	
<a href="#">PLM07 --&gt; PLM10 (PV42)</a>	<a href="#">PLM07</a>	<a href="#">PLM10</a>	9/16/2019 7:01:12 PM	
<a href="#">PLM07 --&gt; PLM12 (PV101)</a>	<a href="#">PLM07</a>	<a href="#">PLM12</a>	9/17/2019 7:51:12 AM	
<a href="#">PLM12 --&gt; PLM11 (PV137)</a>	<a href="#">PLM12</a>	<a href="#">PLM11</a>	9/17/2019 4:15:12 PM	
<a href="#">26W113 --&gt; PLM11 (PV231)</a>	<a href="#">26W113</a>	<a href="#">PLM11</a>	9/18/2019 11:26:27 PM	
<a href="#">26W113 --&gt; 10115PSC (PV230)</a>	<a href="#">26W113</a>	<a href="#">10115PSC</a>	9/18/2019 11:25:57 PM	
<a href="#">10116PSC --&gt; 10115PSC (PV266)</a>	<a href="#">10116PSC</a>	<a href="#">10115PSC</a>	9/18/2019 11:25:57 PM	
<a href="#">`26E109 --&gt; 10116PSC (PV265)</a>	<a href="#">`26E109</a>	<a href="#">10116PSC</a>	9/18/2019 11:19:12 PM	
<a href="#">`26E109 --&gt; PLM10 (PV311)</a>	<a href="#">`26E109</a>	<a href="#">PLM10</a>	9/18/2019 11:21:12 PM	
<a href="#">PV42-PV101-PV137-PV231-PV230-PV266-PV265-PV311</a>	Length = 11207.587 m	Δhoriz = 0.004 m	Δvert = 0.007 m	PPM = 0.672
	Δ3D = 0.008 m	ΔX = 0.003 m	ΔY = -0.004 m	ΔZ = 0.006 m

**Loop: PLM15-PLM14-PLM10-PLM11-PLM16-10120PSC-10119PSCZOO-`126E25**

Vector ID	From	To	Start Time
<a href="#">PLM14 --&gt; PLM15 (PV142)</a>	<a href="#">PLM14</a>	<a href="#">PLM15</a>	9/17/2019 6:08:57 PM
<a href="#">PLM10 --&gt; PLM14 (PV129)</a>	<a href="#">PLM10</a>	<a href="#">PLM14</a>	9/17/2019 10:59:42 AM
<a href="#">PLM10 --&gt; PLM11 (PV139)</a>	<a href="#">PLM10</a>	<a href="#">PLM11</a>	9/17/2019 4:15:12 PM
<a href="#">PLM11 --&gt; PLM16 (PV123)</a>	<a href="#">PLM11</a>	<a href="#">PLM16</a>	9/17/2019 7:50:12 AM
<a href="#">10120PSC --&gt; PLM16 (PV178)</a>	<a href="#">10120PSC</a>	<a href="#">PLM16</a>	9/19/2019 12:19:12 AM
<a href="#">10120PSC --&gt; 10119PSCZOO (PV269)</a>	<a href="#">10120PSC</a>	<a href="#">10119PSCZOO</a>	9/19/2019 12:16:57 AM
<a href="#">`126E25 --&gt; 10119PSCZOO (PV268)</a>	<a href="#">`126E25</a>	<a href="#">10119PSCZOO</a>	9/19/2019 12:17:57 AM
<a href="#">`126E25 --&gt; PLM15 (PV315)</a>	<a href="#">`126E25</a>	<a href="#">PLM15</a>	9/19/2019 12:17:57 AM
<a href="#">PV142-PV129-PV139-PV123-PV178-PV269-PV268-PV315</a>	Length = 10958.330 m    A <sub>horiz</sub> = 0.003 m    A <sub>vert</sub> = -0.008 m    PPM = 0.795		
	Δ3D = 0.009 m    ΔX = -0.003 m    ΔY = 0.008 m    ΔZ = -0.002 m		

**Loop: PLM13-PLM10-PLM16-10120PSC-10119PSCZOO-`126E25-PLM15-PLM14**

Vector ID	From	To	Start Time
<a href="#">PLM13 --&gt; PLM10 (PV278)</a>	<a href="#">PLM13</a>	<a href="#">PLM10</a>	9/18/2019 10:58:12 AM
<a href="#">PLM16 --&gt; PLM10 (PV72)</a>	<a href="#">PLM16</a>	<a href="#">PLM10</a>	9/17/2019 8:15:27 AM
<a href="#">10120PSC --&gt; PLM16 (PV178)</a>	<a href="#">10120PSC</a>	<a href="#">PLM16</a>	9/19/2019 12:19:12 AM
<a href="#">10120PSC --&gt; 10119PSCZOO (PV269)</a>	<a href="#">10120PSC</a>	<a href="#">10119PSCZOO</a>	9/19/2019 12:16:57 AM
<a href="#">`126E25 --&gt; 10119PSCZOO (PV268)</a>	<a href="#">`126E25</a>	<a href="#">10119PSCZOO</a>	9/19/2019 12:17:57 AM
<a href="#">`126E25 --&gt; PLM15 (PV315)</a>	<a href="#">`126E25</a>	<a href="#">PLM15</a>	9/19/2019 12:17:57 AM
<a href="#">PLM14 --&gt; PLM15 (PV142)</a>	<a href="#">PLM14</a>	<a href="#">PLM15</a>	9/17/2019 6:08:57 PM
<a href="#">PLM14 --&gt; PLM13 (PV21)</a>	<a href="#">PLM14</a>	<a href="#">PLM13</a>	9/16/2019 2:34:27 PM
<a href="#">PV278-PV72-PV178-PV269-PV268-PV315-PV142-PV21</a>	Length = 12422.809 m    A <sub>horiz</sub> = 0.005 m    A <sub>vert</sub> = -0.001 m    PPM = 0.416		
	Δ3D = 0.005 m    ΔX = 0.005 m    ΔY = 0.001 m    ΔZ = -0.002 m		

**Loop: PLM13-PLM09-PLM06-PLM10-PLM14-26W150**

Vector ID	From	To	Start Time
<a href="#">PLM09 --&gt; PLM13 (PV275)</a>	<a href="#">PLM09</a>	<a href="#">PLM13</a>	9/18/2019 10:58:12 AM
<a href="#">PLM09 --&gt; PLM06 (PV108)</a>	<a href="#">PLM09</a>	<a href="#">PLM06</a>	9/17/2019 10:57:57 AM
<a href="#">PLM06 --&gt; PLM10 (PV7)</a>	<a href="#">PLM06</a>	<a href="#">PLM10</a>	9/16/2019 7:01:12 PM
<a href="#">PLM10 --&gt; PLM14 (PV129)</a>	<a href="#">PLM10</a>	<a href="#">PLM14</a>	9/17/2019 10:59:42 AM
<a href="#">26W150 --&gt; PLM14 (PV152)</a>	<a href="#">26W150</a>	<a href="#">PLM14</a>	9/17/2019 9:55:57 PM
<a href="#">26W150 --&gt; PLM13 (PV71)</a>	<a href="#">26W150</a>	<a href="#">PLM13</a>	9/17/2019 9:55:57 PM
<a href="#">PV275-PV108-PV7-PV129-PV152-PV71</a>	Length = 14040.306 m    A <sub>horiz</sub> = 0.006 m    A <sub>vert</sub> = 0.001 m    PPM = 0.466		
	Δ3D = 0.007 m    ΔX = 0.006 m    ΔY = 0.001 m    ΔZ = 0.001 m		

**Loop: PLM13-PLM10-PLM06-10128PSC-10127PSC-PLM05-PLM09**

Vector ID	From	To	Start Time
<a href="#">PLM13 --&gt; PLM10 (PV278)</a>	<a href="#">PLM13</a>	<a href="#">PLM10</a>	9/18/2019 10:58:12 AM
<a href="#">PLM06 --&gt; PLM10 (PV7)</a>	<a href="#">PLM06</a>	<a href="#">PLM10</a>	9/16/2019 7:01:12 PM
<a href="#">10128PSC --&gt; PLM06 (PV150)</a>	<a href="#">10128PSC</a>	<a href="#">PLM06</a>	9/17/2019 8:56:12 PM
<a href="#">10127PSC --&gt; 10128PSC (PV84)</a>	<a href="#">10127PSC</a>	<a href="#">10128PSC</a>	9/17/2019 8:52:27 PM
<a href="#">10127PSC --&gt; PLM05 (PV85)</a>	<a href="#">10127PSC</a>	<a href="#">PLM05</a>	9/17/2019 9:00:27 PM
<a href="#">PLM09 --&gt; PLM05 (PV17)</a>	<a href="#">PLM09</a>	<a href="#">PLM05</a>	9/16/2019 11:07:12 AM
<a href="#">PLM09 --&gt; PLM13 (PV275)</a>	<a href="#">PLM09</a>	<a href="#">PLM13</a>	9/18/2019 10:58:12 AM
<a href="#">PV278-PV7-PV150-PV84-PV85-PV17-PV275</a>	Length = 14601.722 m    A <sub>horiz</sub> = 0.021 m    A <sub>vert</sub> = -0.011 m    PPM = 1.634		
	Δ3D = 0.024 m    ΔX = -0.013 m    ΔY = -0.002 m    ΔZ = -0.020 m		

Loop: PLM06-PLM04-PLM03-PLM05-10127PSC-10128PSC				
Vector ID	From	To	Start Time	
<a href="#">PLM06 --&gt; PLM04 (PV15)</a>	<a href="#">PLM06</a>	<a href="#">PLM04</a>	9/16/2019 6:37:42 PM	
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<a href="#">PLM04</a>	<a href="#">PLM03</a>	9/16/2019 6:38:27 PM	
<a href="#">PLM05 --&gt; PLM03 (PV8)</a>	<a href="#">PLM05</a>	<a href="#">PLM03</a>	9/16/2019 11:07:12 AM	
<a href="#">10127PSC --&gt; PLM05 (PV85)</a>	<a href="#">10127PSC</a>	<a href="#">PLM05</a>	9/17/2019 9:00:27 PM	
<a href="#">10127PSC --&gt; 10128PSC (PV84)</a>	<a href="#">10127PSC</a>	<a href="#">10128PSC</a>	9/17/2019 8:52:27 PM	
<a href="#">10128PSC --&gt; PLM06 (PV150)</a>	<a href="#">10128PSC</a>	<a href="#">PLM06</a>	9/17/2019 8:56:12 PM	
<a href="#">PV15-PV25-PV8-PV85-PV84-PV150</a>	Length = 15173.149 m	Ahoriz = 0.006 m	Avert = 0.018 m	PPM = 1.282
	Δ3D = 0.019 m	ΔX = 0.009 m	ΔY = -0.014 m	ΔZ = 0.010 m
Loop: PLM02-PLM01-10104PSC-10103PSC-10205MSC-26W20				
Vector ID	From	To	Start Time	
<a href="#">PLM01 --&gt; PLM02 (PV44)</a>	<a href="#">PLM01</a>	<a href="#">PLM02</a>	9/16/2019 10:59:12 AM	
<a href="#">10104PSC --&gt; PLM01 (PV299)</a>	<a href="#">10104PSC</a>	<a href="#">PLM01</a>	9/18/2019 9:28:27 PM	
<a href="#">10104PSC --&gt; 10103PSC (PV256)</a>	<a href="#">10104PSC</a>	<a href="#">10103PSC</a>	9/18/2019 9:28:27 PM	
<a href="#">10103PSC --&gt; 10205MSC (PV223)</a>	<a href="#">10103PSC</a>	<a href="#">10205MSC</a>	9/18/2019 9:28:12 PM	
<a href="#">26W20 --&gt; 10205MSC (PV195)</a>	<a href="#">26W20</a>	<a href="#">10205MSC</a>	9/18/2019 9:28:12 PM	
<a href="#">26W20 --&gt; PLM02 (PV175)</a>	<a href="#">26W20</a>	<a href="#">PLM02</a>	9/18/2019 9:27:42 PM	
<a href="#">PV44-PV299-PV256-PV223-PV195-PV175</a>	Length = 4039.598 m	Ahoriz = 0.005 m	Avert = -0.017 m	PPM = 4.374
	Δ3D = 0.018 m	ΔX = 0.001 m	ΔY = 0.012 m	ΔZ = -0.013 m
Loop: PLM03-PLM04-10110PSC-26W60-`26E60-10109PSC				
Vector ID	From	To	Start Time	
<a href="#">PLM04 --&gt; PLM03 (PV25)</a>	<a href="#">PLM04</a>	<a href="#">PLM03</a>	9/16/2019 6:38:27 PM	
<a href="#">10110PSC --&gt; PLM04 (PV228)</a>	<a href="#">10110PSC</a>	<a href="#">PLM04</a>	9/18/2019 10:21:12 PM	
<a href="#">10110PSC --&gt; 26W60 (PV227)</a>	<a href="#">10110PSC</a>	<a href="#">26W60</a>	9/18/2019 10:34:12 PM	
<a href="#">`26E60 --&gt; 26W60 (PV197)</a>	<a href="#">`26E60</a>	<a href="#">26W60</a>	9/18/2019 10:34:12 PM	
<a href="#">10109PSC --&gt; `26E60 (PV261)</a>	<a href="#">10109PSC</a>	<a href="#">`26E60</a>	9/18/2019 10:15:57 PM	
<a href="#">10109PSC --&gt; PLM03 (PV304)</a>	<a href="#">10109PSC</a>	<a href="#">PLM03</a>	9/18/2019 10:15:57 PM	
<a href="#">PV25-PV228-PV227-PV197-PV261-PV304</a>	Length = 5535.112 m	Ahoriz = 0.004 m	Avert = -0.018 m	PPM = 3.333
	Δ3D = 0.018 m	ΔX = -0.002 m	ΔY = 0.012 m	ΔZ = -0.014 m
Loop: PLM06-PLM07-7757D-10112PSC-36A-10111PSC				
Vector ID	From	To	Start Time	
<a href="#">PLM06 --&gt; PLM07 (PV104)</a>	<a href="#">PLM06</a>	<a href="#">PLM07</a>	9/17/2019 7:46:42 AM	
<a href="#">7757D --&gt; PLM07 (PV274)</a>	<a href="#">7757D</a>	<a href="#">PLM07</a>	9/19/2019 1:12:27 AM	
<a href="#">7757D --&gt; 10112PSC (PV273)</a>	<a href="#">7757D</a>	<a href="#">10112PSC</a>	9/19/2019 1:08:27 AM	
<a href="#">36A --&gt; 10112PSC (PV233)</a>	<a href="#">36A</a>	<a href="#">10112PSC</a>	9/19/2019 1:06:57 AM	
<a href="#">10111PSC --&gt; 36A (PV232)</a>	<a href="#">10111PSC</a>	<a href="#">36A</a>	9/19/2019 1:14:27 AM	
<a href="#">10111PSC --&gt; PLM06 (PV320)</a>	<a href="#">10111PSC</a>	<a href="#">PLM06</a>	9/19/2019 1:14:27 AM	
<a href="#">PV104-PV274-PV273-PV233-PV232-PV320</a>	Length = 6340.909 m	Ahoriz = 0.012 m	Avert = 0.014 m	PPM = 2.916
	Δ3D = 0.018 m	ΔX = -0.008 m	ΔY = -0.017 m	ΔZ = 0.003 m

Loop: PLM10-PLM11-26W113-10115PSC-10116PSC-`26E109				
Vector ID	From	To	Start Time	
<a href="#">PLM10 --&gt; PLM11 (PV139)</a>	<a href="#">PLM10</a>	<a href="#">PLM11</a>	9/17/2019 4:15:12 PM	
<a href="#">26W113 --&gt; PLM11 (PV231)</a>	<a href="#">26W113</a>	<a href="#">PLM11</a>	9/18/2019 11:26:27 PM	
<a href="#">26W113 --&gt; 10115PSC (PV230)</a>	<a href="#">26W113</a>	<a href="#">10115PSC</a>	9/18/2019 11:25:57 PM	
<a href="#">10116PSC --&gt; 10115PSC (PV266)</a>	<a href="#">10116PSC</a>	<a href="#">10115PSC</a>	9/18/2019 11:25:57 PM	
<a href="#">`26E109 --&gt; 10116PSC (PV265)</a>	<a href="#">`26E109</a>	<a href="#">10116PSC</a>	9/18/2019 11:19:12 PM	
<a href="#">`26E109 --&gt; PLM10 (PV311)</a>	<a href="#">`26E109</a>	<a href="#">PLM10</a>	9/18/2019 11:21:12 PM	
<a href="#">PV139-PV231-PV230-PV266-PV265-PV311</a>	Length = 4183.452 m	ΔHoriz = 0.010 m	ΔVert = -0.005 m	PPM = 2.573
	Δ3D = 0.011 m	ΔX = -0.002 m	ΔY = 0.009 m	ΔZ = 0.005 m

Loop: PLM12-PLM08-10121PSC-10122PSC				
Vector ID	From	To	Start Time	
<a href="#">PLM08 --&gt; PLM12 (PV49)</a>	<a href="#">PLM08</a>	<a href="#">PLM12</a>	9/16/2019 2:36:57 PM	
<a href="#">10121PSC --&gt; PLM08 (PV147)</a>	<a href="#">10121PSC</a>	<a href="#">PLM08</a>	9/17/2019 7:53:12 PM	
<a href="#">10122PSC --&gt; 10121PSC (PV82)</a>	<a href="#">10122PSC</a>	<a href="#">10121PSC</a>	9/17/2019 7:50:42 PM	
<a href="#">10122PSC --&gt; PLM12 (PV83)</a>	<a href="#">10122PSC</a>	<a href="#">PLM12</a>	9/17/2019 8:00:57 PM	
<a href="#">PV49-PV147-PV82-PV83</a>	Length = 3751.870 m	ΔHoriz = 0.013 m	ΔVert = -0.032 m	PPM = 9.242
	Δ3D = 0.035 m	ΔX = 0.006 m	ΔY = 0.032 m	ΔZ = -0.012 m

Loop: PLM15-PLM16-10120PSC-10119PSCZOO-`126E25				
Vector ID	From	To	Start Time	
<a href="#">PLM15 --&gt; PLM16 (PV10)</a>	<a href="#">PLM15</a>	<a href="#">PLM16</a>	9/16/2019 2:30:57 PM	
<a href="#">10120PSC --&gt; PLM16 (PV178)</a>	<a href="#">10120PSC</a>	<a href="#">PLM16</a>	9/19/2019 12:19:12 AM	
<a href="#">10120PSC --&gt; 10119PSCZOO (PV269)</a>	<a href="#">10120PSC</a>	<a href="#">10119PSCZOO</a>	9/19/2019 12:16:57 AM	
<a href="#">`126E25 --&gt; 10119PSCZOO (PV268)</a>	<a href="#">`126E25</a>	<a href="#">10119PSCZOO</a>	9/19/2019 12:17:57 AM	
<a href="#">`126E25 --&gt; PLM15 (PV315)</a>	<a href="#">`126E25</a>	<a href="#">PLM15</a>	9/19/2019 12:17:57 AM	
<a href="#">PV10-PV178-PV269-PV268-PV315</a>	Length = 3253.626 m	ΔHoriz = 0.014 m	ΔVert = -0.010 m	PPM = 5.151
	Δ3D = 0.017 m	ΔX = 0.008 m	ΔY = 0.014 m	ΔZ = 0.002 m

Loop: PLM13-PLM14-26W150				
Vector ID	From	To	Start Time	
<a href="#">PLM14 --&gt; PLM13 (PV21)</a>	<a href="#">PLM14</a>	<a href="#">PLM13</a>	9/16/2019 2:34:27 PM	
<a href="#">26W150 --&gt; PLM14 (PV152)</a>	<a href="#">26W150</a>	<a href="#">PLM14</a>	9/17/2019 9:55:57 PM	
<a href="#">26W150 --&gt; PLM13 (PV71)</a>	<a href="#">26W150</a>	<a href="#">PLM13</a>	9/17/2019 9:55:57 PM	
<a href="#">PV21-PV152-PV71</a>	Length = 3706.994 m	ΔHoriz = 0.008 m	ΔVert = -0.005 m	PPM = 2.538
	Δ3D = 0.009 m	ΔX = -0.006 m	ΔY = 0.007 m	ΔZ = 0.003 m

Loop: PLM06-PLM05-10127PSC-10128PSC				
Vector ID	From	To	Start Time	
<a href="#">PLM06 --&gt; PLM05 (PV75)</a>	<a href="#">PLM06</a>	<a href="#">PLM05</a>	9/17/2019 10:59:57 AM	
<a href="#">10127PSC --&gt; PLM05 (PV85)</a>	<a href="#">10127PSC</a>	<a href="#">PLM05</a>	9/17/2019 9:00:27 PM	
<a href="#">10127PSC --&gt; 10128PSC (PV84)</a>	<a href="#">10127PSC</a>	<a href="#">10128PSC</a>	9/17/2019 8:52:27 PM	
<a href="#">10128PSC --&gt; PLM06 (PV150)</a>	<a href="#">10128PSC</a>	<a href="#">PLM06</a>	9/17/2019 8:56:12 PM	
<a href="#">PV75-PV85-PV84-PV150</a>	Length = 7787.170 m	ΔHoriz = 0.022 m	ΔVert = 0.014 m	PPM = 3.319
	Δ3D = 0.026 m	ΔX = 0.013 m	ΔY = 0.001 m	ΔZ = 0.022 m

## PLM Station Location Data Sheets

# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-1**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 820992.910	Latitude: 34°05'22.93181 N	NAD 83
Easting: 1943992.559	Longitude: 081°11'06.03752 W	NAVD 88
Elevation: 373.08	Ellip. Ht.: 272.29 iFT	Geoid12B
	Geoid12B: -30.721 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED ON THE EAST SIDE OF WOODROW ST. ACROSS THE ROAD FROM THE INTERSECTION OF WOODROW ST. AND THAMES VALLY RD. ; 45.0' SOUTHEAST OF TRAFFIC LIGHT POLE ON THE EAST SIDE OF WOODROW ST. , 23.0' NORTH OF CEMETERY SIGN AS CHURCH ENTRANCE , 20.5' EAST OF BACK OF SIDEWALK ON EAST SIDE OF WOODROW ST.



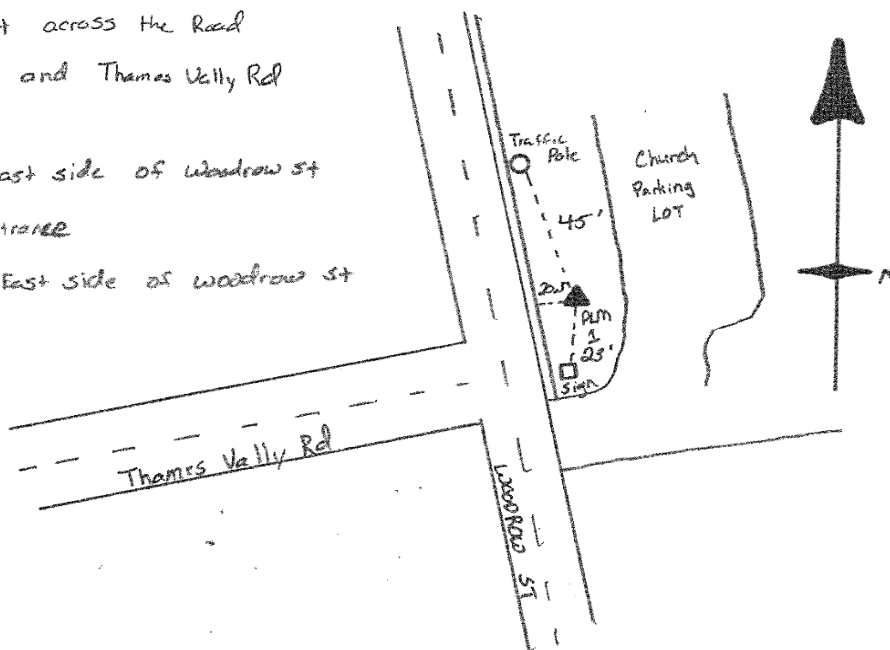
PLM 1

Located on the East side of Woodrow St across the Road  
From the Intersection of Woodrow St and Thames Vally Rd

45' - SE of Traffic light pole on the East side of Woodrow St

23' - North of Cemetery sign at church entrance

20.5' - East of Back of sidewalk on East side of Woodrow St





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-2**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 823980.030	Latitude: 34°05'52.57432 N	NAD 83
Easting: 1949196.768	Longitude: 081°10'04.20721 W	NAVD 88
Elevation: 329.51	Ellip. Ht.: 228.72 iFT	Geoid12B
	Geoid12B: -30.722 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED IN THE SOUTH WEST CORNER OF THE INTERSECTION OF BROAD RIVER RD. AND WESTERN LN. ; 50.6' SOUTH OF SOUTHLAND LOG HOMES SIGN , 50.0' SOUTHWEST OF TRAFFIC BOX IN SOUTHWEST CORNER OF INTERSECTION , 4.5' NORTHEAST OF EP ON ENTRANCE TO RICHLAND COUNTY UTILITIES



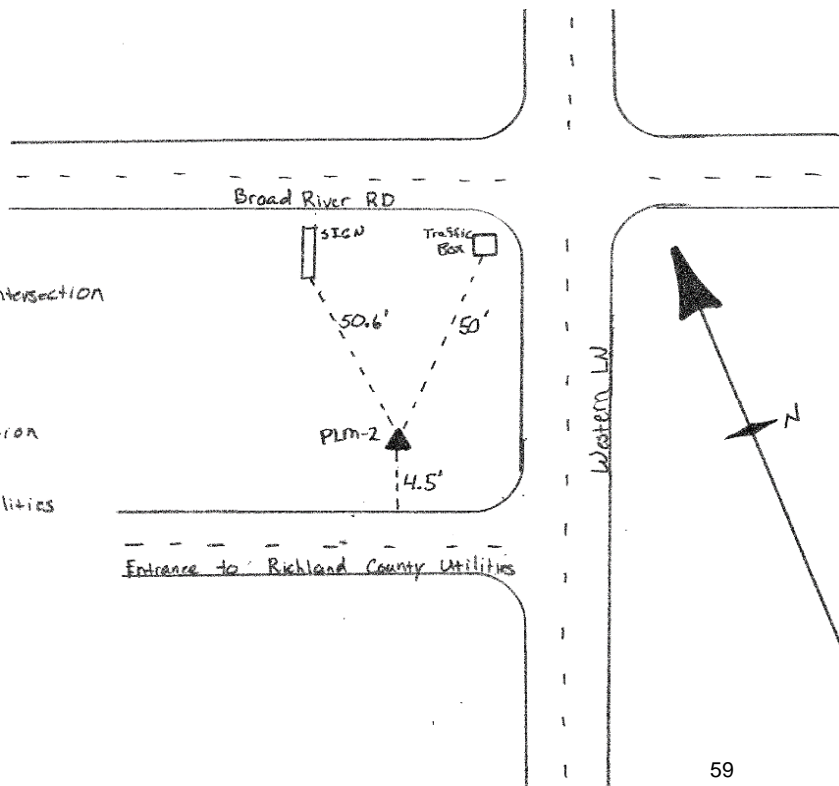
### PLM 2

Is located in the South west corner of the Intersection of Broad River Rd and Western LN.

50.6' - South of southland loghomes sign

50.0' - SW of traffic box in SW corner of Intersection

4.5' - NE of Ep on Entrance to Richland county utilities





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-3**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 808309.400	Latitude: 34°03'17.56182 N	NAD 83
Easting: 1951260.043	Longitude: 081°09'39.37818 W	NAVD 88
Elevation: 236.20	Ellip. Ht.: 135.08 iFT	Geoid12B
	Geoid12B: -30.821 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED IN THE WEST CORNER OF THE INTERSECTION OF ST. ANDREWS RD. AND BUSH RIVER RD. ; 32.0' SOUTH OF POWER POLE ON THE WEST SIDE OF ST. ANDREWS RD. , 12.5' NORTHEAST OF YIELD SIGN ON THE NORTH SIDE OF BUSH RIVER RD. , 1.5' WEST OF BACK OF SIDE WALK ON THE NORTH SIDE OF BUSH RIVER RD.



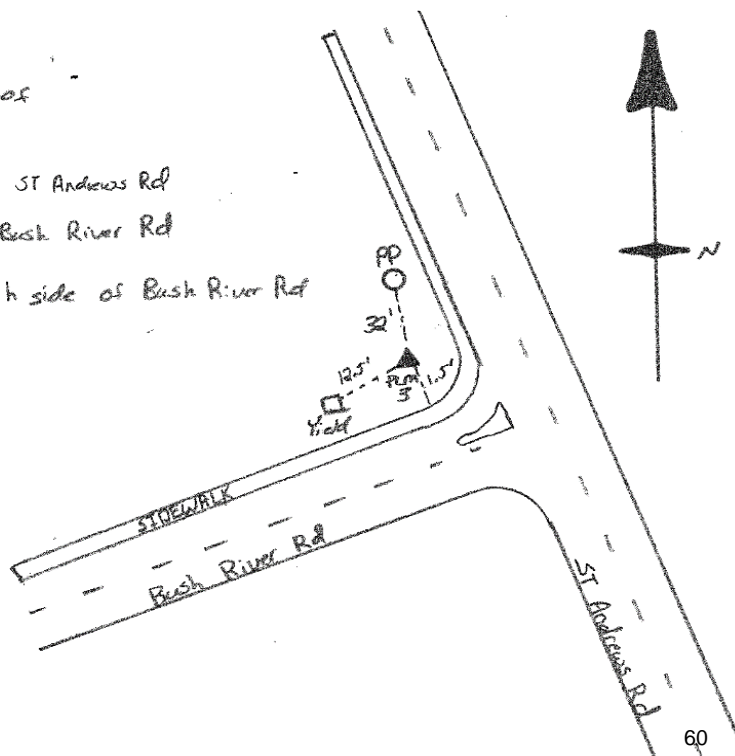
## PLM-3

Located in the west corner of the intersection of  
ST Andrews Rd and Bush River Rd

32' South of power pole on the west side of ST Andrews Rd

12.5' NE of Yield sign on the North side of Bush River Rd

1.5' West of Back of side walk on the North side of Bush River Rd



# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-4**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 813317.448	Latitude: 34°04'07.21495 N	NAD 83
Easting: 1958503.064	Longitude: 081°08'13.35858 W	NAVD 88
Elevation: 297.51	Ellip. Ht.: 196.40 iFT	Geoid12B
	Geoid12B: -30.817 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED IN THE MIDDLE OF THE ROUNDABOUT AT THE INTERSECTION OF PINEY GROVE RD. AND PINEY WOODS RD. ; 21.1' EAST OF BACK OF CURB ON THE WESTERN MOST SIDE OF ROUNDABOUT , 40.5' SOUTH OF SIGN WITH BLACK AND YELLOW ARROWS , 120.0' NORTHWEST OF LIGHT POLE LOCATED AT THE SOUTHEAST CORNER OF INTERSECTION



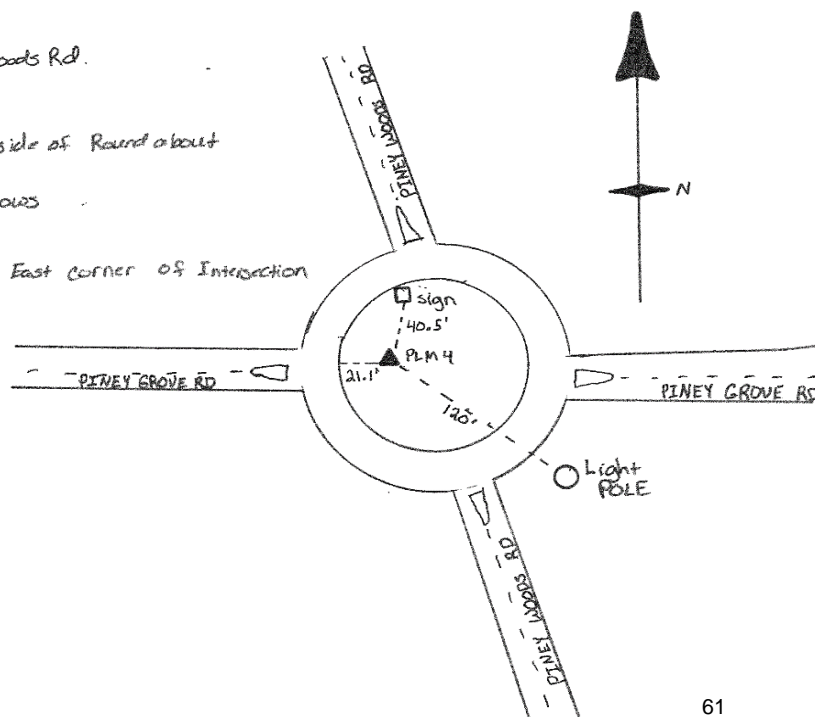
PLM 4

Is Located in the middle of the Roundabout  
At the Intersection of Piney Grove Rd and Piney Woods Rd.

21.1' - East of Back of curb on the most Western side of Roundabout

40.5' - South of sign with Black and yellow arrows

120.0' - NW of Light Pole located at the South East corner of Intersection





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-5**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 793236.460	Latitude: 34°00'48.43279 N	NAD 83
Easting: 1951533.074	Longitude: 081°09'35.85519 W	NAVD 88
Elevation: 306.94	Ellip. Ht.: 205.57 iFT	Geoid12B
	Geoid12B: -30.895 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED IN THE SOUTH EAST CORNER OF THE INTERSECTION OF SUNBELT BLVD. AND NORTHSIDE BLVD. ; 31.0' EAST OF THE EP ON NORTHSIDE BLVD. , 72.5' SOUTH OF THE EP ON SUNSET BLVD. , 43.0' SOUTHWEST OF THE NORTHSIDE CHURCH SIGN



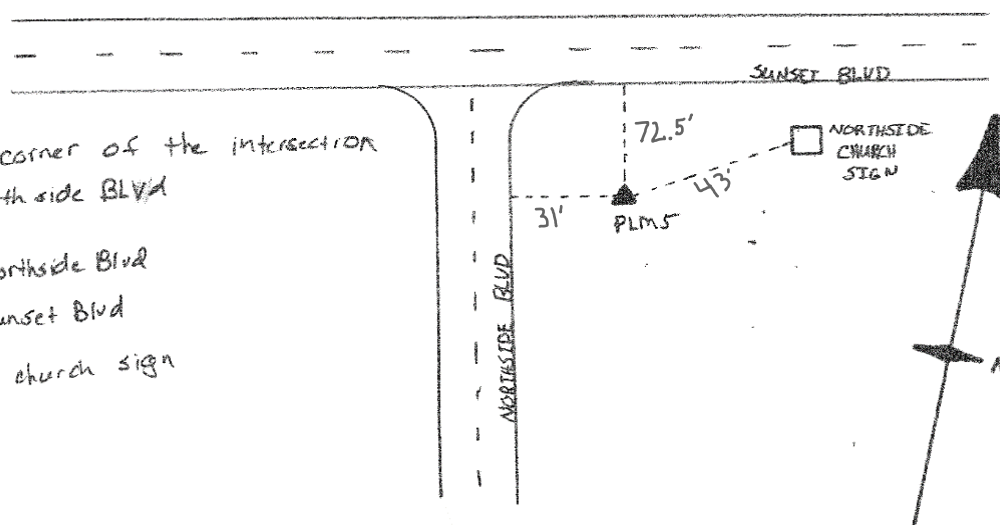
PLM 5

Is located in the South east corner of the intersection of Sunbelt Blvd and Northside Blvd

31' - East of the EP on Northside Blvd

72.5' - south of the EP on Sunset Blvd

43' - SW of the Northside church sign





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-6**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 801164.557	Latitude: 34°02'06.99908 N	NAD 83
Easting: 1960501.280	Longitude: 081°07'49.41941 W	NAVD 88
Elevation: 255.68	Ellip. Ht.: 154.38 iFT	Geoid12B
	Geoid12B: -30.876 m	

## STATION TYPE

Rebar w/Cap in Concrete

**GNSS**

## Description / Sketch:

STATION IS LOCATED ON THE SOUTH SIDE OF BUSH RIVER RD. EAST OF THE INTERSECTION OF MARYDALE LN. ; 74.5' EAST OF TRAFFIC BOX IN SE CORNER OF INTERSECTION , 26.7' WEST OF CHRISTIAN LIFE CHURCH SIGN , 12.3' SOUTH OF EP ON SOUTH SIDE OF BUSH RIVER RD.



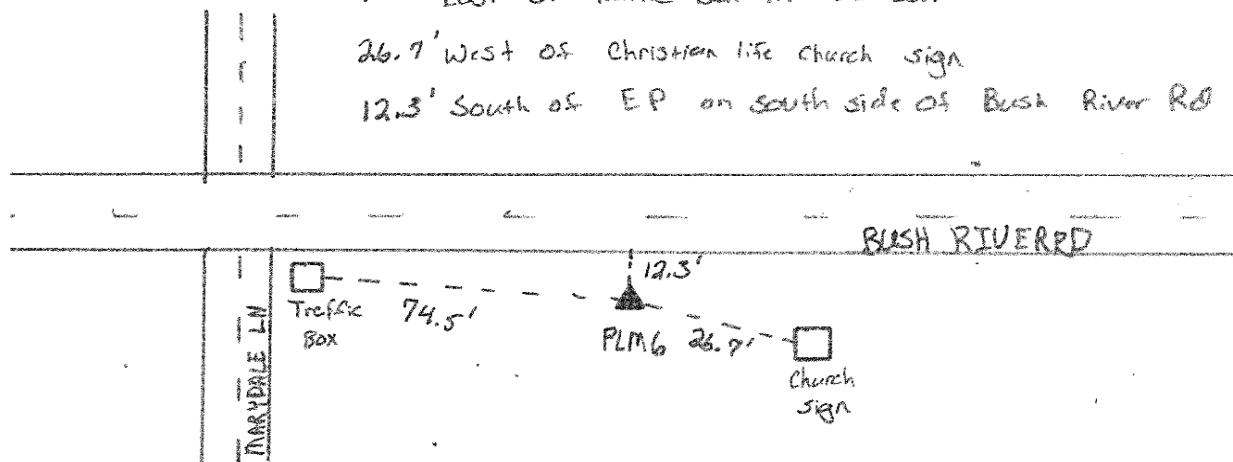
PLM 6

Located on the south side of Bush River Rd  
East of the intersection of Marydale Ln.

74.5' East of Traffic Box in SE corner of intersection

26.7' West of Christian life church sign

12.3' South of EP on south side of Bush River Rd





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-7**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 804246.283	Latitude: 34°02'37.59337 N	NAD 83
Easting: 1969895.482	Longitude: 081°05'57.81004 W	NAVD 88
Elevation: 316.64	Ellip. Ht.: 215.24 iFT	Geoid12B
	Geoid12B: -30.908 m	

## STATION TYPE

PK NAIL

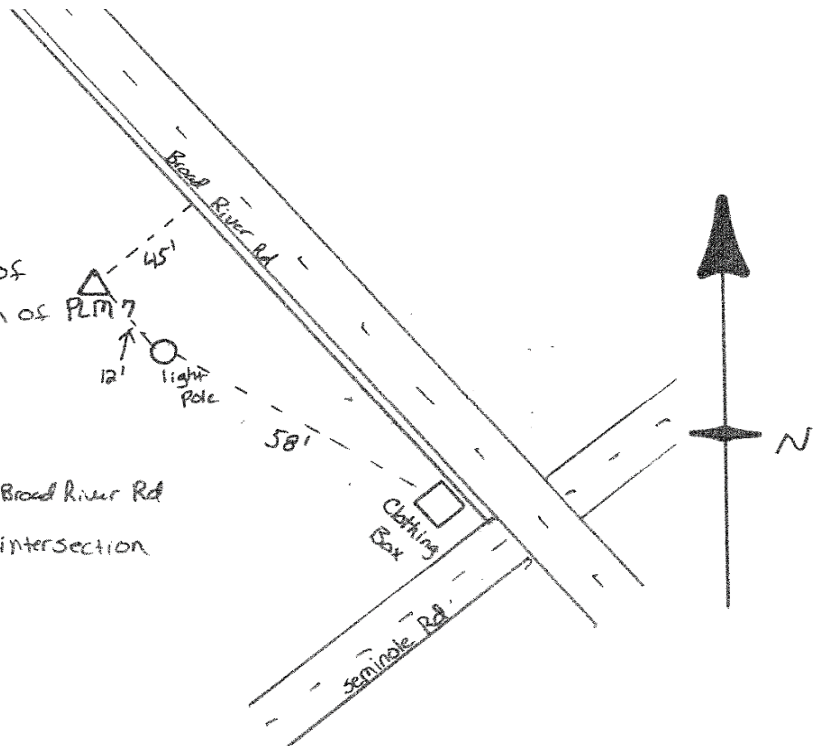
**GNSS**

## Description / Sketch:

STATION IS LOCATED IN THE PARKING LOT OF IMMUNOTEK PLASMA CENTER AT THE INTERSECTION OF BROAD RIVER RD. AND SEMINOLE RD. ; 12.0' NORTHWEST OF LIGHT POLE , 45.0' SOUTHWEST OF BACK OF SIDE WALK ON WEST SIDE OF BROAD RIVER RD. , 58.0' WEST OF CLOTHING BOX AT SOUTHWEST CORNER OF INTERSECTION



PLM 7 is located in the parking lot of Immunotek plasma center. at the intersection of Broad River Rd and Seminole Rd.  
12' NW of Light pole  
45' SW of Back of side walk on West side of Broad River Rd  
58' W of Clothing Box at SW corner of intersection



# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-8**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 809611.050	Latitude: 34°03'30.74683 N	NAD 83
Easting: 1979062.152	Longitude: 081°04'08.90162 W	NAVD 88
Elevation: 259.05	Ellip. Ht.: 157.62 iFT	Geoid12B
	Geoid12B: -30.915 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF PEEPLES ST. AND FROST AVE. ; 11.0' NORTH OF EP ON PEEPLES ST. , 30.5' NORTHEAST OF STOP SIGN AT PEEPLES ST. AND FROST AVE. , 19.0' SOUTH OF EP ON RIGHT TURN LANE OFF PEEPLES ST.



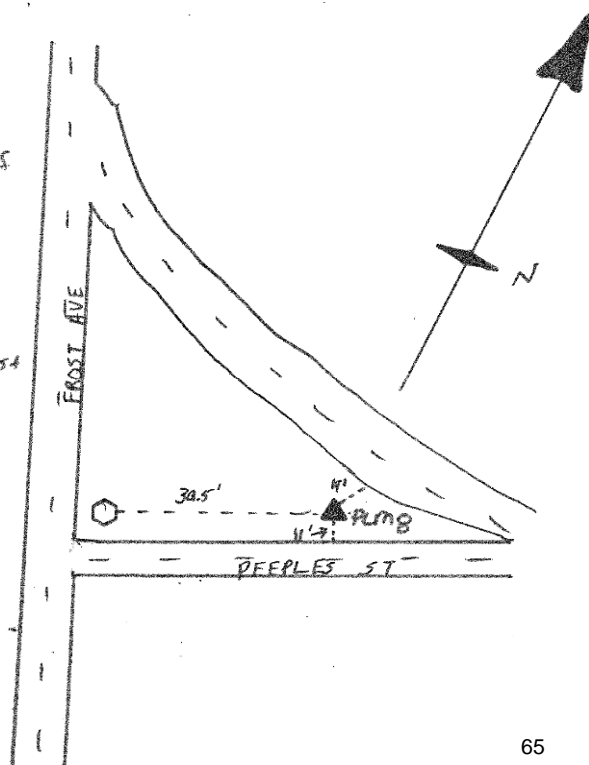
**PLM8**

Located at the NE corner of the intersection of Peeples St and Frost Ave.

11' - North of EP on Peeples St

30.5' - NE of stop sign at Peeples and Frost Ave.

19' - South of EP on Right Turn lane off Peeples St





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-9**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 790250.213	Latitude: 34°00'18.94830 N	NAD 83
Easting: 1955760.262	Longitude: 081°08'45.58015 W	NAVD 88
Elevation: 383.59	Ellip. Ht.: 282.12 iFT	Geoid12B
	Geoid12B: -30.929 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED ON THE NORTH SIDE OF ORANGEBURG DR. AT THE INTERSECTION OF AYER CT. ; 9.0' NORTH OF EP ON THE NORTH SIDE OF ORANGEBURG DR. , 24.5' SOUTH OF SW CORNER OF PARKING LOT , 9.0' EAST OF APARTMENT COMPLEX SIGN



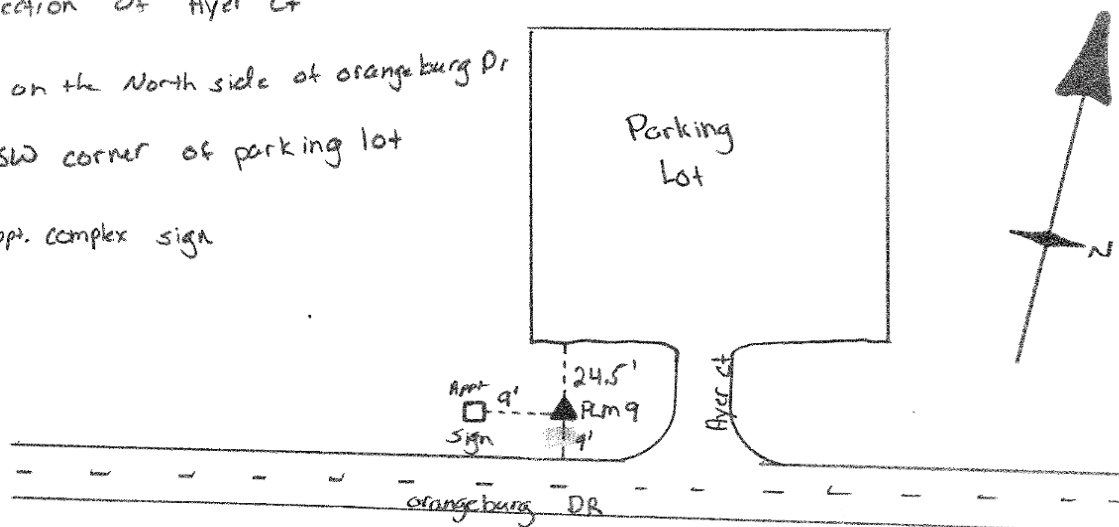
PLM 9

Located on the North side of orangeburg Dr  
at the intersection of Ayer Ct

9' North of Ep on the North side of orangeburg Dr

24.5' south of SW corner of parking lot

9' East of Appt. complex sign





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-10**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 799606.280	Latitude: 34°01'51.65624 N	NAD 83
Easting: 1967034.373	Longitude: 081°06'31.75790 W	NAVD 88
Elevation: 231.12	Ellip. Ht.: 129.64 iFT	Geoid12B
	Geoid12B: -30.930 m	

## STATION TYPE

PK NAIL

# GNSS

## Description / Sketch:

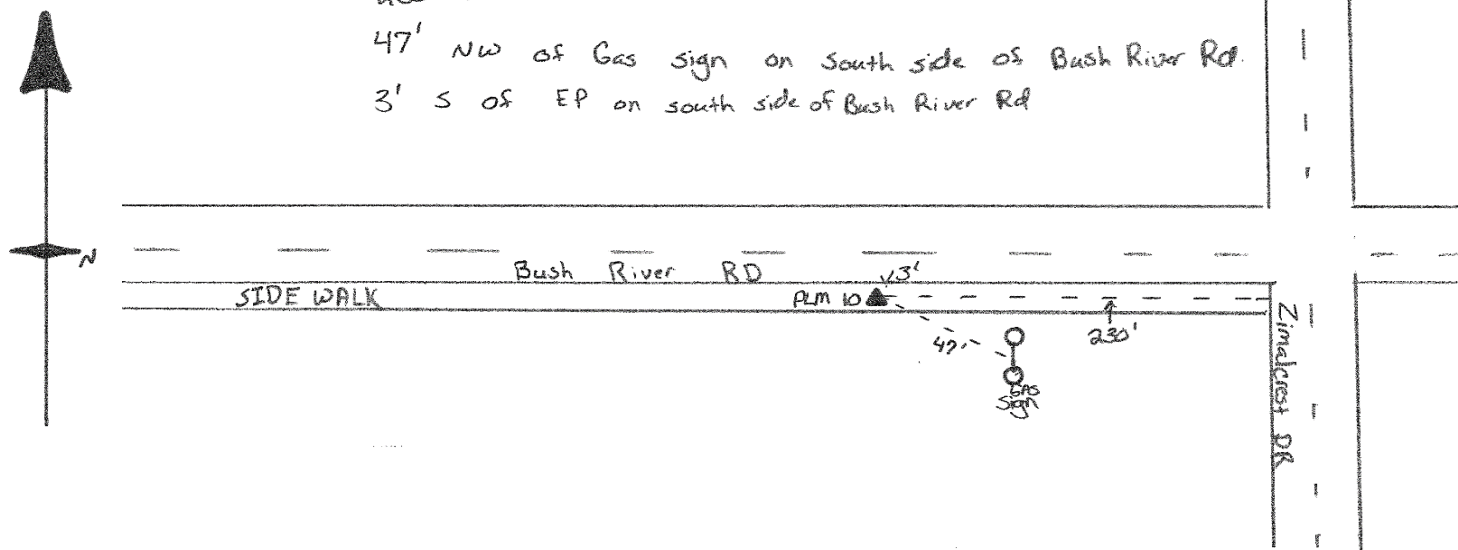
STATION IS LOCATED ON THE SOUTH SIDE OF BUSH RIVER RD. ; 230.0' WEST OF ZIMALCREST DR. IN THE BACK OF SIDEWALK , 47.0' NORTHWEST OF GAS SIGN ON SOUTH SIDE OF BUSH RIVER RD. , 3.0' SOUTH OF EP ON SOUTH SIDE OF BUSH RIVER RD.



PLM 10

Located on the south side of Bush River Rd .  
230' west of Zimacrest Dr in the back of sidewalk .

47' NW of Gas sign on south side of Bush River Rd .  
3' S of EP on south side of Bush River Rd





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-11**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 799806.407	Latitude: 34°01'53.69701 N	NAD 83
Easting: 1973491.611	Longitude: 081°05'15.02330 W	NAVD 88
Elevation: 321.55	Ellip. Ht.: 220.02 iFT	Geoid12B
	Geoid12B: -30.946 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

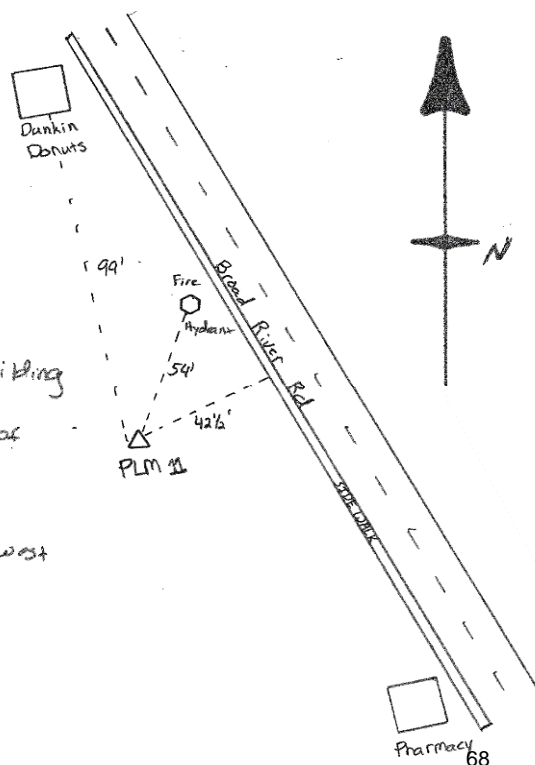
## Description / Sketch:

STATION IS LOCATED ON THE SOUTH WEST SIDE OF BROAD RIVER RD. ; 99.0' SOUTH OF DUNKIN DONUTS BUILDING , 54.0' SOUTHWEST OF FIRE HYDRANT LOCATED ON THE WEST SIDE OF BROAD RIVER RD. , 42.5' WEST FROM THE BACK OF THE SIDEWALK ON THE WEST SIDE OF BROAD RIVER RD.



PLM 11 is Located on the South West side  
of Broad River Road 99' south of Dunkin Donuts building  
54' south west of Fire Hydrant Located on the west side of  
Broad River Rd.

42 1/2' west from the back of the side walk on the west  
side of Broad River Rd





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-12**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 805461.831	Latitude: 34°02'49.71730 N	NAD 83
Easting: 1982905.968	Longitude: 081°03'23.18085 W	NAVD 88
Elevation: 343.38	Ellip. Ht.: 241.82 iFT	Geoid12B
	Geoid12B: -30.957 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

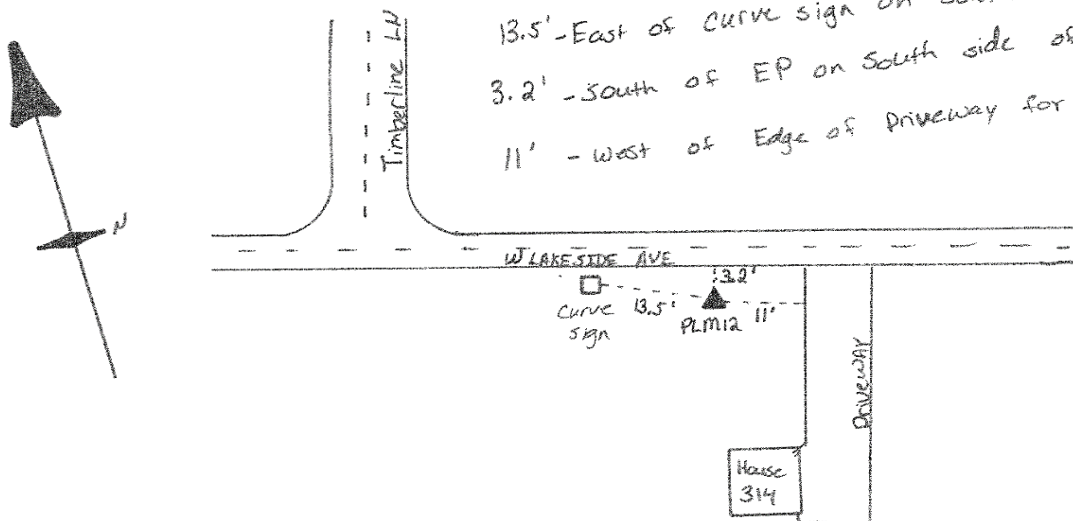
STATION IS LOCATED ON THE SOUTH SIDE OF W. LAKESIDE AVE. IN FRONT OF HOUSE 314 ; 13.5' EAST OF CURVE SIGN ON SOUTH SIDE OF LAKESIDE AVE. , 3.2' SOUTH OF EP ON SOUTH SIDE OF LAKESIDE AVE. , 11.0' WEST OF EDGE OF DRIVEWAY FOR HOUSE 314



PLM 12

Is located on the south side of W Lakeside AVE  
in front of house 314.

13.5'-East of Curve sign on south side of lakeside Ave  
3.2' -South of EP on South side of lakeside Ave  
11' - West of Edge of Driveway for house 314





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-13**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 786775.210	Latitude: 33°59'44.67536 N	NAD 83
Easting: 1964426.115	Longitude: 081°07'02.58065 W	NAVD 88
Elevation: 317.69	Ellip. Ht.: 216.00 iFT	Geoid12B
	Geoid12B: -30.996 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED ON THE WESTSIDE OF OAKWOOD DR. AT CAPITOL TOURS BUILDING ; 14.0' NORTHWEST OF THE EP ON THE WEST SIDE OF OAKWOOD DR. , 109.5' SOUTH OF THE SE CORNER OF CHAIN LINK FENCE AT CAPITOL TOURS , 93.0' EAST OF THE EASTERN MOST PART OF PARKING LOT FOR CAPITOL TOURS



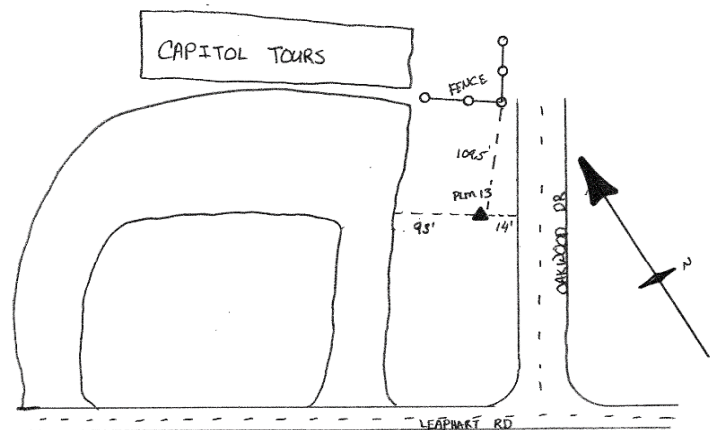
PLM 13

Is Located on the westside of Oakwood Dr  
at Capitol Tours building.

14' - NW of the EP on the west side of Oakwood DR

109.5' S of the SE corner of Chain link Fence at Capitol Tours

93' - E of the East most part of Parking lot for Capitol Tours





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-14**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 788060.190	Latitude: 33°59'57.45043 N	NAD 83
Easting: 1970363.005	Longitude: 081°05'52.07111 W	NAVD 88
Elevation: 261.77	Ellip. Ht.: 160.00 iFT	Geoid12B
	Geoid12B: -31.019 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED ON THE NORTH SIDE OF SUNSET BLVD. IN FRONT OF PALMETTO CITIZENS BANK ; 8.2 NORTH OF EP ON NORTH SIDE OF SUNSET BLVD. , 18.0' SOUTH OF EP OF BANK PARKING LOT , 32.5' WEST OF BANK SIGN



### PLM 14

Is located on the North side of sunset Blvd  
in front of Palmetto Citizens Bank,

8.2' - North of EP on north side of Sunset Blvd

18' - South of EP of Bank's Parking lot

32.5' - West of Bank sign

Klapman Rd



Cougar Dr

SUNSET Blvd

Bank sign 32.5' 8.2' PLM 14 18'

Bank Parking Lot

# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-15**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 790538.848	Latitude: 34°00'22.00920 N	NAD 83
Easting: 1974311.542	Longitude: 081°05'05.18889 W	NAVD 88
Elevation: 271.61	Ellip. Ht.: 169.82 iFT	Geoid12B
	Geoid12B: -31.026 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED AT THE NORTHWEST CORNER OF TRINITY METHODIST CHURCH PARKING LOT OF THE WEST SIDE OF MOHAWK DR. ; 28.5' SOUTH OF ROCK WALL ON NORTH SIDE OF PARKING LOT , 18.6' WEST OF THE EP AT NORTHWEST END OF PARKING LOT , 150.0' NORTH OF POWER POLE AT SOUTHWEST CORNER OF PARKING LOT



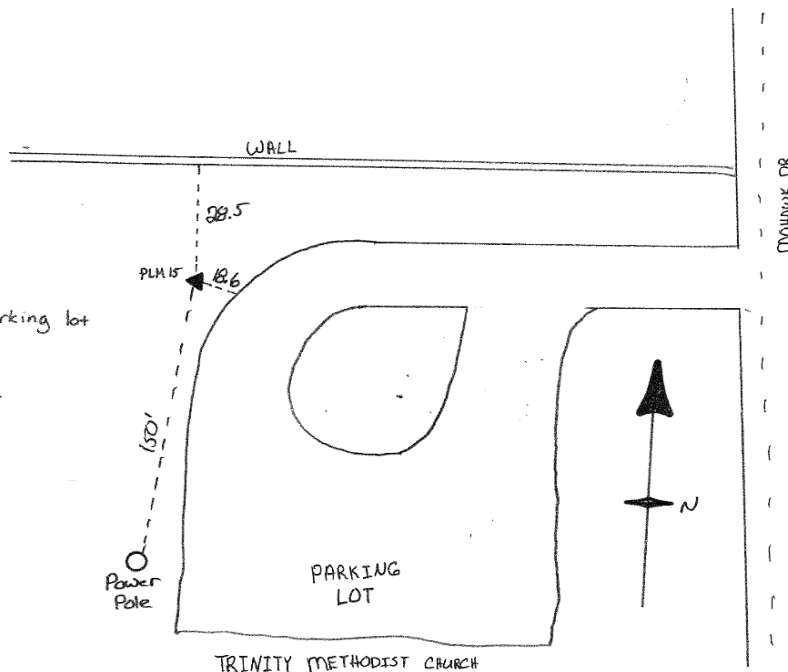
### PLM 15

Is located at the N corner of Trinity methodist church parking lot  
of the west side of mohawk Dr.

28.5' - South of Roc wall on north side of parking lot

18.6' - west of the EP at NW end of parking lot

150' - North of po





# SCDOT - PID P027662 - Carolina Crossroads

ESP Project #: HN42.003.000

Date Of Survey: 9/16/2019 - 09/19/2019

Station Name

**PLM-16**

Grid Coordinates (iFT)	Geographic Coordinates	Hor/Vert Datum
Northing: 794186.470	Latitude: 34°00'58.10926 N	NAD 83
Easting: 1975558.698	Longitude: 081°04'50.40621 W	NAVD 88
Elevation: 232.37	Ellip. Ht.: 130.62 iFT	Geoid12B
	Geoid12B: -31.014 m	

## STATION TYPE

Rebar w/Cap in Concrete

# GNSS

## Description / Sketch:

STATION IS LOCATED ON THE NORTH SIDE OF STONE RIDGE DR. AT THE INTERSECTION OF JACOB RD. ; 27.0' EAST OF BLACK FENCE BETWEEN JACOB RD. AND PARKING LOT , 1.5' SOUTH OF THE EDGE OF PARKING LOT , 45.5' WEST OF THE ENTRANCE TO THE PARKING LOT



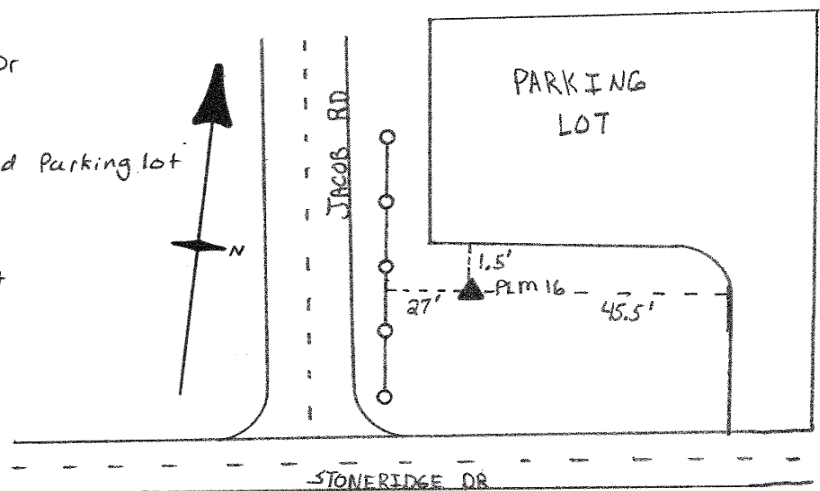
PLM 16

IS Located on the North side of Stone Ridge Dr  
at the intersection of Jacob Rd.

27' - East of Black Fence between Jacob Rd and Parking lot

1.5' - South of the Edge of parking

45.5' - west of the entrance to the parking lot



## GNSS Site Calibration Report









# GPS Calibration Report

*Project : CCR\_SiteCalibration*

<b>User name</b>	bmoravec	<b>Date &amp; Time</b>	9:58:38 AM 12/12/2019
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	South Carolina 3900
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>		<b>Geoid Model</b>	GEOID12B (Conus)
<b>Coordinate Units</b>	International feet		
<b>Distance Units</b>	International feet		
<b>Height Units</b>	International feet		

## Contents

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## Datum Transformation Parameters

Datum Transformation computation not requested

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## Updated Default Projection (Transverse Mercator) Definition

Updated default projection not requested

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## Horizontal Adjustment Parameters

<b>Northing coordinate of rotation center</b>	802259.320ift
<b>Easting coordinate of rotation center</b>	1964013.308ift
<b>Rotation about the center point</b>	0°00'00"
<b>Translation north</b>	-0.012ift
<b>Translation east</b>	0.033ift
<b>Scale factor</b>	0.99999946

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## Vertical Adjustment Parameters

Vertical adjustment computation not requested

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## Geoid Model Definition

GEOID12B (Conus)

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## Residual Differences Between GPS And Known Coordinates

### Summary

	Maximum error	Root Mean Square error	Point
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75



Horizontal	0.036ft	0.005	<a href="#">36A_A</a>
Vertical	?	?	<a href="#">?</a>
Three-dimensional	0.036ft	0.005	<a href="#">36A_A</a>

## Point Residuals

GPS point		Calculated point		Control point	
Point	<a href="#">PLM01_A</a>	Northing	820992.887ft	Point	<a href="#">PLM01</a>
Latitude	34°05'22.93181"N	Easting	1943992.555ft	Northing	820992.910ft
Longitude	81°11'06.03752"W	Elevation	373.045ft	Easting	1943992.559ft
Height	272.290ft	Horizontal error	0.023ft	Elevation	373.080ft
		Vertical error	?	Type	Horizontal
		3D error	0.023ft	Point quality	Control quality
Point	<a href="#">PLM02_A</a>	Northing	823980.029ft	Point	<a href="#">PLM02</a>
Latitude	34°05'52.57432"N	Easting	1949196.763ft	Northing	823980.030ft
Longitude	81°10'04.20721"W	Elevation	329.501ft	Easting	1949196.768ft
Height	228.717ft	Horizontal error	0.005ft	Elevation	329.510ft
		Vertical error	?	Type	Horizontal
		3D error	0.005ft	Point quality	Control quality
Point	<a href="#">PLM03_A</a>	Northing	808309.397ft	Point	<a href="#">PLM03</a>
Latitude	34°03'17.56182"N	Easting	1951260.040ft	Northing	808309.400ft
Longitude	81°09'39.37818"W	Elevation	236.162ft	Easting	1951260.043ft
Height	135.082ft	Horizontal error	0.004ft	Elevation	236.200ft
		Vertical error	?	Type	Horizontal
		3D error	0.004ft	Point quality	Control quality
Point	<a href="#">PLM04_A</a>	Northing	813317.445ft	Point	<a href="#">PLM04</a>
Latitude	34°04'07.21495"N	Easting	1958503.061ft	Northing	813317.448ft
Longitude	81°08'13.35858"W	Elevation	297.485ft	Easting	1958503.064ft
Height	196.404ft	Horizontal error	0.004ft	Elevation	297.510ft
		Vertical error	?	Type	Horizontal
		3D error	0.004ft	Point quality	Control quality
Point	<a href="#">PLM05_A</a>	Northing	793236.456ft	Point	<a href="#">PLM05</a>
Latitude	34°00'48.43279"N	Easting	1951533.071ft	Northing	793236.460ft
Longitude	81°09'35.85519"W	Elevation	306.940ft	Easting	1951533.074ft
Height	205.574ft	Horizontal error	0.005ft	Elevation	306.940ft
		Vertical error	?	Type	Horizontal
		3D error	0.005ft	Point quality	Control quality
Point	<a href="#">PLM06_A</a>	Northing	801164.548ft	Point	<a href="#">PLM06</a>
Latitude	34°02'06.99908"N	Easting	1960501.273ft	Northing	801164.557ft
Longitude	81°07'49.41941"W	Elevation	255.731ft	Easting	1960501.280ft
Height	154.380ft	Horizontal error	0.012ft	Elevation	255.680ft
		Vertical error	?	Type	Horizontal
		3D error	0.012ft	Point quality	Control quality
Point	<a href="#">PLM07_A</a>	Northing	804246.275ft	Point	<a href="#">PLM07</a>
Latitude	34°02'37.59337"N	Easting	1969895.484ft	Northing	804246.283ft
Longitude	81°05'57.81004"W	Elevation	316.662ft	Easting	1969895.482ft
Height	215.236ft	Horizontal error	0.008ft	Elevation	316.640ft
		Vertical error	?	Type	Horizontal
		3D error	0.008ft	Point quality	Control quality
Point	<a href="#">PLM08_A</a>	Northing	809611.052ft	Point	<a href="#">PLM08</a>
Latitude	34°03'30.74683"N	Easting	1979062.145ft	Northing	809611.050ft
Longitude	81°04'08.90162"W	Elevation	259.075ft	Easting	1979062.152ft
Height	157.618ft	Horizontal error	0.007ft	Elevation	259.050ft
		Vertical error	?	Type	Horizontal



		3D error	0.007ift	Point quality	Control quality
Point	<a href="#">PLM09_A</a>	Northing	790250.209ift	Point	<a href="#">PLM09</a>
Latitude	34°00'18.94830"N	Easting	1955760.262ift	Northing	790250.213ift
Longitude	81°08'45.58015"W	Elevation	383.597ift	Easting	1955760.262ift
Height	282.116ift	Horizontal error	0.004ift	Elevation	383.590ift
		Vertical error	?	Type	Horizontal
		3D error	0.004ift	Point quality	Control quality
Point	<a href="#">PLM10_A</a>	Northing	799606.278ift	Point	<a href="#">PLM10</a>
Latitude	34°01'51.65624"N	Easting	1967034.372ift	Northing	799606.280ift
Longitude	81°06'31.75790"W	Elevation	231.125ift	Easting	1967034.373ift
Height	129.642ift	Horizontal error	0.002ift	Elevation	231.120ift
		Vertical error	?	Type	Horizontal
		3D error	0.002ift	Point quality	Control quality
Point	<a href="#">PLM11_A</a>	Northing	799806.401ift	Point	<a href="#">PLM11</a>
Latitude	34°01'53.69701"N	Easting	1973491.607ift	Northing	799806.407ift
Longitude	81°05'15.02330"W	Elevation	321.596ift	Easting	1973491.611ift
Height	220.020ift	Horizontal error	0.007ift	Elevation	321.550ift
		Vertical error	?	Type	Horizontal
		3D error	0.007ift	Point quality	Control quality
Point	<a href="#">PLM12_A</a>	Northing	805461.829ift	Point	<a href="#">PLM12</a>
Latitude	34°02'49.71730"N	Easting	1982905.958ift	Northing	805461.831ift
Longitude	81°03'23.18085"W	Elevation	343.414ift	Easting	1982905.968ift
Height	241.818ift	Horizontal error	0.010ift	Elevation	343.380ift
		Vertical error	?	Type	Horizontal
		3D error	0.010ift	Point quality	Control quality
Point	<a href="#">PLM13_A</a>	Northing	786775.217ift	Point	<a href="#">PLM13</a>
Latitude	33°59'44.67536"N	Easting	1964426.115ift	Northing	786775.210ift
Longitude	81°07'02.58065"W	Elevation	317.685ift	Easting	1964426.115ift
Height	215.997ift	Horizontal error	0.007ift	Elevation	317.690ift
		Vertical error	?	Type	Horizontal
		3D error	0.007ift	Point quality	Control quality
Point	<a href="#">PLM14_A</a>	Northing	788060.199ift	Point	<a href="#">PLM14</a>
Latitude	33°59'57.45043"N	Easting	1970363.004ift	Northing	788060.190ift
Longitude	81°05'52.07111"W	Elevation	261.767ift	Easting	1970363.005ift
Height	160.000ift	Horizontal error	0.009ift	Elevation	261.770ift
		Vertical error	?	Type	Horizontal
		3D error	0.009ift	Point quality	Control quality
Point	<a href="#">PLM15_A</a>	Northing	790538.848ift	Point	<a href="#">PLM15</a>
Latitude	34°00'22.00920"N	Easting	1974311.540ift	Northing	790538.848ift
Longitude	81°05'05.18889"W	Elevation	271.603ift	Easting	1974311.542ift
Height	169.820ift	Horizontal error	0.002ift	Elevation	271.610ift
		Vertical error	?	Type	Horizontal
		3D error	0.002ift	Point quality	Control quality
Point	<a href="#">PLM16_A</a>	Northing	794186.468ift	Point	<a href="#">PLM16</a>
Latitude	34°00'58.10926"N	Easting	1975558.683ift	Northing	794186.470ift
Longitude	81°04'50.40621"W	Elevation	232.349ift	Easting	1975558.698ift
Height	130.617ift	Horizontal error	0.015ift	Elevation	232.370ift
		Vertical error	?	Type	Horizontal
		3D error	0.015ift	Point quality	Control quality
Point	<a href="#">26W20_A</a>	Northing	823631.444ift	Point	<a href="#">26W20</a>
Latitude	34°05'49.10387"N	Easting	1947871.496ift	Northing	823631.411ift
Longitude	81°10'19.96178"W	Elevation	322.051ift	Easting	1947871.509ift
Height	221.280ift	Horizontal error	0.036ift	Elevation	322.050ift



		Vertical error	?	Type	Horizontal
		3D error	0.036ift	Point quality	Control quality
Point	<a href="#">26W60_A</a>	Northing	812731.480ift	Point	<a href="#">26W60</a>
Latitude	34°04'01.39867"N	Easting	1957099.705ift	Northing	812731.460ift
Longitude	81°08'30.03354"W	Elevation	258.945ift	Easting	1957099.682ift
Height	157.871ift	Horizontal error	0.031ift	Elevation	258.970ift
		Vertical error	?	Type	Horizontal
		3D error	0.031ift	Point quality	Control quality
Point	<a href="#">36A_A</a>	Northing	804399.417ift	Point	<a href="#">36A</a>
Latitude	34°02'39.04308"N	Easting	1963662.426ift	Northing	804399.429ift
Longitude	81°07'11.89564"W	Elevation	232.630ift	Easting	1963662.392ift
Height	131.299ift	Horizontal error	0.036ift	Elevation	232.630ift
		Vertical error	?	Type	Horizontal
		3D error	0.036ift	Point quality	Control quality
Point	<a href="#">26W113_A</a>	Northing	799083.644ift	Point	<a href="#">26W113</a>
Latitude	34°01'46.50387"N	Easting	1968873.393ift	Northing	799083.652ift
Longitude	81°06'09.89713"W	Elevation	210.875ift	Easting	1968873.389ift
Height	109.354ift	Horizontal error	0.009ift	Elevation	210.870ift
		Vertical error	?	Type	Horizontal
		3D error	0.009ift	Point quality	Control quality
Point	<a href="#">126E25_A</a>	Northing	793129.566ift	Point	<a href="#">126E25</a>
Latitude	34°00'47.65421"N	Easting	1975832.837ift	Northing	793129.580ift
Longitude	81°04'47.13908"W	Elevation	191.532ift	Easting	1975832.822ift
Height	89.774ift	Horizontal error	0.020ift	Elevation	191.570ift
		Vertical error	?	Type	Horizontal
		3D error	0.020ift	Point quality	Control quality
Point	<a href="#">26W150_A</a>	Northing	787185.688ift	Point	<a href="#">26W150</a>
Latitude	33°59'48.76618"N	Easting	1967157.710ift	Northing	787185.659ift
Longitude	81°06'30.13729"W	Elevation	283.154ift	Easting	1967157.710ift
Height	181.427ift	Horizontal error	0.029ift	Elevation	283.170ift
		Vertical error	?	Type	Horizontal
		3D error	0.029ift	Point quality	Control quality

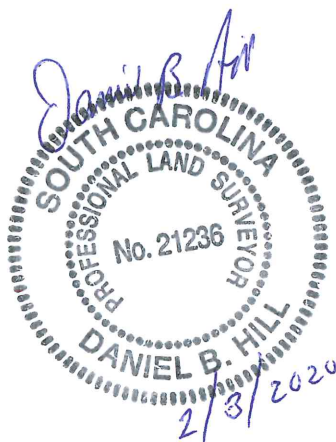
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## Final Project Control Elevation Comparisons

ESP Final Levelled Elevations			Delta Z		Published Information - International Feet				
Name	Elevation		Pub - Levelled		ID	Northing	Easting	Elevation	Code
`26E19	325.70		0.00		318	823807.390	1947554.710	325.70	`26E19
`26E25	333.90		0.00		324	822298.270	1948938.290	333.90	`26E25
`26E40	295.65		0.06		339	818111.680	1952530.870	295.71	`26E40
`26E45	319.81		0.00		343	816856.690	1953568.310	319.81	`26E45
`26E46	312.92		-0.01		344	816585.050	1953792.490	312.91	`26E46
`26E47	304.89		0.00		345	816372.220	1953968.730	304.89	`26E47
`26E53	248.99		0.01		350	814716.380	1955334.070	249.00	`26E53
`26E58	252.15		0.00		354	813226.660	1956562.870	252.15	`26E58
`26E60	259.10		0.00		356	812667.320	1957024.770	259.10	`26E60
`26E61	263.51		0.00		357	812391.860	1957251.760	263.51	`26E61
`26E69	277.52		-0.01		364	810442.830	1958949.840	277.51	`26E69
`26E72	300.39		-0.02		367	809743.170	1959582.120	300.37	`26E72
`26E75	315.00		-0.03		370	809084.970	1960178.280	314.97	`26E75
`26E79	299.57		0.00		374	808188.110	1960989.780	299.57	`26E79
`26E84	247.20		0.03		379	806982.670	1962080.770	247.23	`26E84
`26E100	267.97		0.00		394	802353.980	1965902.950	267.97	`26E100
`26E105	270.79		0.00		397	801062.140	1966964.400	270.79	`26E105
`26E109	230.08		0.00		401	800032.200	1967879.890	230.08	`26E109
`26E111	217.00		-0.01		402	799565.040	1968300.020	216.99	`26E111
`26E142	310.20		-0.03		423	789864.680	1966484.820	310.17	`26E142
26W20	322.05		0.01		452	823631.410	1947871.510	322.06	`26W20
26W28	297.68		0.00		460	821600.410	1949723.380	297.68	`26W28
26W32	291.86		-0.01		464	820453.330	1950720.550	291.85	`26W32
26W36	273.56		0.00		468	819309.550	1951666.850	273.56	`26W36
26W38	281.99		0.00		470	818726.420	1952148.510	281.99	`26W38
26W43	314.29		-0.02		475	817415.480	1953232.900	314.27	`26W43
26W44	319.67		-0.02		476	817166.980	1953439.000	319.65	`26W44
26W49	285.19		0.01		481	815910.500	1954475.860	285.20	`26W49
26W50	275.14		0.00		482	815643.480	1954696.830	275.14	`26W50
26W59	255.65		0.02		490	813007.590	1956871.710	255.67	`26W59
26W60	258.97		0.01		491	812731.460	1957099.680	258.98	`26W60
26W65	300.10		-0.02		495	811440.110	1958182.160	300.08	`26W65
26W66	295.48		0.00		496	811216.260	1958383.310	295.48	`26W66
26W67	285.31		0.00		497	810984.630	1958592.770	285.31	`26W67
26W68	276.63		0.02		498	810755.870	1958799.450	276.65	`26W68
26W69	277.60		0.01		499	810505.440	1959026.830	277.61	`26W69
26W72	300.38		-0.01		502	809809.720	1959656.730	300.37	`26W72
26W75	314.94		-0.04		505	809150.490	1960253.290	314.90	`26W75
26W78	303.40		-0.02		508	808478.990	1960860.590	303.38	`26W78
26W80	293.40		0.00		510	808026.310	1961270.530	293.40	`26W80
26W84	247.20		0.00		514	807049.030	1962155.170	247.20	`26W84
26W86	242.56		0.03		516	806512.380	1962640.920	242.59	`26W86
26W112	212.69		0.02		537	799354.160	1968637.310	212.71	`26W112
26W113	210.87		0.03		538	799083.650	1968873.390	210.90	`26W113
26W137	298.56		-0.05		553	791513.740	1966527.970	298.51	`26W137
26W142	308.58		-0.07		556	789879.840	1966599.590	308.51	`26W142
26W148	286.16		0.00		561	787907.320	1967018.020	286.16	`26W148
26W149	284.65		-0.01		562	787540.150	1967084.400	284.64	`26W149
26W150	283.17		0.00		563	787185.660	1967157.710	283.17	`26W150
7959C	341.69		-0.04		587	824276.190	1947901.720	341.65	`7959C



757C	336.30		-0.02		610	816897.070	1953892.800	336.28	`757C
757D	326.94		0.00		611	817074.190	1954092.270	326.94	`757D
36A	232.63		0.02		631	804399.430	1963662.390	232.65	`36A
7756B	232.97		0.01		636	804359.380	1963843.100	232.98	`7756B
7757D	232.67		0.07		641	804700.130	1964738.210	232.74	`7757D
7778A	322.15		-0.07		739	790532.350	1966500.310	322.08	`7778A
7778B	318.73		-0.07		740	790240.510	1966569.730	318.66	`7778B
`126E6	185.32		0.02		748	796562.750	1970683.840	185.34	`126E6
`126E9	197.47		0.00		751	795777.260	1971282.310	197.47	`126E9
`126E25	191.57		0.00		764	793129.580	1975832.820	191.57	`126E25
126W2	189.65		0.04		798	797768.800	1969891.650	189.69	`126W2
10103PSC	346.14		-0.02		10103	824299.594	1947608.468	346.12	10103_PSC-REBAR
10105PSC-WIGGLY	321.35		0.05		10105	821594.420	1948760.020	321.40	10105_PSC-MONUMENT-WIGGLY
10109PSC	273.95		0.01		10109	812873.145	1956585.301	273.96	10109_PSC-REBAR
10111PSC	255.27		0.04		10111	804328.701	1963347.200	255.31	10111_PSC-REBAR
10113PSC	311.76		-0.02		10113	802497.872	1967123.637	311.74	10113_PSC-REBAR
10114PSC	285.83		0.01		10114	802649.779	1966303.452	285.84	10114_PSC-REBAR
10116PSC	219.00		0.10		10116	799698.952	1967882.499	219.10	10116_PSC-REBAR
10117PSC	212.86		0.00		10117	794969.813	1972058.870	212.86	10117_PSC-REBAR
10119PSC_ZOO	206.39		-0.06		10119	792424.275	1976973.875	206.33	10119_PSC-MONUMENT-ZOO
10120PSC	222.41		-0.05		10120	793175.623	1976948.539	222.36	10120_PSC-REBAR
10123PSC-HOLT	332.72		0.11		10123	802539.030	1971685.230	332.83	10123_PSC-MONUMENT-HOLT
10124PSC	314.67		0.01		10124	803006.284	1971155.972	314.68	10124_PSC-REBAR
10126PSC	210.45		0.10		10126	799360.652	1964131.513	210.55	10126_PSC-REBAR
10205MSC	324.16		0.06		10205	823762.949	1947576.746	324.22	10205_MSC-REBAR
10225MSC	238.54		0.03		10225	806548.419	1962653.207	238.57	10225_MSC-REBAR
10226MSC	258.72		0.00		10226	805553.785	1963594.798	258.72	10226_MSC-REBAR
10227MSC	211.25		0.10		10227	804671.693	1964266.385	211.35	10227_MSC-REBAR
10230MSC	306.22		0.01		10230	801816.351	1967566.688	306.23	10230_MSC-REBAR
10242MSC	217.99		0.06		10242	799316.565	1962626.832	218.05	10242_MSC-REBAR
10244MSC	213.05		0.12		10244	801196.756	1964842.523	213.17	10244_MSC-REBAR
10248MSC	289.34		0.01		10248	802305.058	1968270.196	289.35	10248_MSC-REBAR
10250MSC	307.42		0.00		10250	802474.660	1970747.476	307.42	10250_MSC-REBAR
10252MSC	259.02		0.00		10252	803697.396	1973518.097	259.02	10252_MSC-REBAR
10254MSC	179.32		0.00		10254	804816.312	1975802.008	179.32	10254_MSC-REBAR
"CINDY"	280.12		0.05		NGS			280.17	g12b
"FRONT AZ MK"	270.86		0.13		NGS			270.99	g12b
"HOSPITAL AZ MK"	299.43		0.04		NGS			299.47	g12b



## Mobile LiDAR Panel and Validation Point Control

P027662 - Carolina Crossroads Mobile LiDAR Panels and Validation Control Points							
NAD 83 South Carolina State Plane Coordinates / Site Calibration (See "P027662_CCR_GNSS_SITE_CALIB.pd							
NAVD 88 Elevations / International Feet							
International Feet				Panel & Validation Pt #	Metric		
ID	North	East	Elev	Code	Y	X	Z
1001	823238.411	1948058.481	320.10	P001	250923.068	593768.225	97.566
1002	823324.927	1948184.463	320.19	P002	250949.438	593806.624	97.594
1003	822183.084	1949042.724	331.75	P003	250601.404	594068.222	101.117
1004	822273.400	1949116.592	331.45	P004	250628.932	594090.737	101.026
1005	821534.748	1949617.643	298.37	P005	250403.791	594243.458	90.943
1006	821562.258	1949751.663	296.92	P006	250412.176	594284.307	90.501
1007	821186.068	1949957.639	297.93	P007	250297.514	594347.088	90.809
1008	821244.895	1950059.108	297.91	P008	250315.444	594378.016	90.803
1009	820353.720	1950668.550	291.07	P009	250043.814	594563.774	88.718
1010	820386.208	1950784.605	290.61	P010	250053.716	594599.148	88.578
1011	819219.444	1951596.703	272.87	P011	249698.087	594846.675	83.171
1012	819270.591	1951700.335	272.98	P012	249713.676	594878.262	83.204
1013	818457.326	1952241.269	286.86	P013	249465.793	595043.139	87.435
1014	818520.626	1952323.447	286.99	P014	249485.087	595068.187	87.475
1015	817327.394	1953176.772	315.04	P015	249121.390	595328.280	96.024
1016	817521.875	1953146.074	311.58	P016	249180.668	595318.923	94.970
1017	816568.694	1953802.948	312.19	P017	248890.138	595519.139	95.156
1018	816967.406	1953608.166	320.02	P018	249011.665	595459.769	97.542
1019	815933.933	1954325.214	288.29	P019	248696.663	595678.325	87.871
1020	815931.531	1954460.094	285.76	P020	248695.931	595719.437	87.100
1021	814798.803	1955265.725	249.79	P021	248350.675	595964.993	76.136
1022	814857.760	1955354.855	249.41	P022	248368.645	595992.160	76.020
1023	813549.183	1956271.684	247.84	P023	247969.791	596271.609	75.542
1024	814107.639	1955991.111	246.50	P024	248140.008	596186.091	75.133
1025	813363.963	1956584.429	251.21	P025	247913.336	596366.934	76.569
1026	812941.410	1956929.285	256.25	P026	247784.542	596472.046	78.105
1027	812743.933	1956958.809	257.95	P027	247724.351	596481.045	78.623
1028	812166.586	1957575.611	278.38	P028	247548.375	596669.046	84.850
1029	811943.685	1957612.328	287.61	P029	247480.435	596680.238	87.664
1030	811493.382	1958133.957	300.16	P030	247343.183	596839.230	91.489
1031	810771.547	1958645.886	278.93	P031	247123.168	596995.266	85.018
1032	810831.119	1958730.991	278.58	P032	247141.325	597021.206	84.911
1033	809665.210	1959655.595	303.13	P033	246785.956	597303.025	92.394
1034	809746.480	1959712.706	302.45	P034	246810.727	597320.433	92.187
1035	808571.696	1960644.838	306.50	P035	246452.653	597604.547	93.421
1036	808625.600	1960728.038	306.00	P036	246469.083	597629.906	93.269
1037	807453.489	1961656.663	270.00	P037	246111.823	597912.951	82.296
1038	807533.853	1961715.996	270.56	P038	246136.318	597931.036	82.467
1039	806364.713	1962642.816	244.70	P039	245779.965	598213.530	74.585
1040	806419.287	1962725.168	245.00	P040	245796.599	598238.631	74.676



1041	805685.247	1963243.428	258.28	P041	245572.863	598396.597	78.724	
1042	805762.280	1963332.006	258.74	P042	245596.343	598423.595	78.864	
1043	805047.003	1963791.553	235.80	P043	245378.327	598563.665	71.872	
1044	804962.779	1963993.121	226.38	P044	245352.655	598625.103	69.001	
1045	804842.819	1963958.449	223.41	P045	245316.091	598614.535	68.095	
1046	804741.101	1964167.093	214.98	P046	245285.088	598678.130	65.526	
1047	804444.788	1964257.944	211.03	P047	245194.771	598705.821	64.322	
1048	803871.811	1964871.817	214.24	P048	245020.128	598892.930	65.300	
1049	803454.992	1965022.901	216.36	P049	244893.082	598938.980	65.947	
1050	803235.712	1965380.841	225.84	P050	244826.245	599048.080	68.836	
1051	802700.950	1965615.243	249.25	P051	244663.250	599119.526	75.971	
1052	802608.525	1965859.805	259.16	P052	244635.078	599194.069	78.992	
1053	802038.949	1966146.981	275.54	P053	244461.472	599281.600	83.985	
1054	802079.537	1966281.363	275.82	P054	244473.843	599322.559	84.070	
1055	801356.753	1966694.694	275.83	P055	244253.538	599448.543	84.073	
1056	801387.287	1966846.923	273.51	P056	244262.845	599494.942	83.366	
1057	800882.630	1967120.848	267.66	P057	244109.026	599578.434	81.583	
1058	800822.290	1967354.448	262.80	P058	244090.634	599649.636	80.101	
1059	800153.398	1967771.737	234.58	P059	243886.756	599776.825	71.500	
1060	799739.834	1968340.080	218.39	P060	243760.701	599950.056	66.565	
1061	799355.913	1968485.040	213.17	P061	243643.682	599994.240	64.974	
1062	799527.817	1968469.337	215.47	P062	243696.079	599989.454	65.675	
1063	798754.094	1969003.589	208.40	P063	243460.248	600152.294	63.520	
1064	798864.921	1969137.285	232.32	P064	243494.028	600193.044	70.811	
1065	798456.576	1969047.860	206.86	P065	243369.564	600165.788	63.051	
1066	798322.603	1969209.864	227.39	P066	243328.729	600215.167	69.308	
1067	797379.261	1968765.464	185.13	P067	243041.199	600079.713	56.428	
1068	796622.930	1968446.471	181.63	P068	242810.669	599982.484	55.361	
1069	795914.924	1968153.828	188.42	P069	242594.869	599893.287	57.430	
1070	795917.892	1968270.455	187.75	P070	242595.773	599928.835	57.226	
1071	794575.423	1967606.849	198.53	P071	242186.589	599726.568	60.512	
1072	794511.399	1967702.673	197.72	P072	242167.074	599755.775	60.265	
1073	793205.674	1967045.943	235.07	P073	241769.089	599555.603	71.649	
1074	793157.257	1967146.408	234.90	P074	241754.332	599586.225	71.598	
1075	791815.762	1966482.232	296.58	P075	241345.444	599383.784	90.398	
1076	791781.467	1966589.235	290.01	P076	241334.991	599416.399	88.395	
1077	790936.654	1966343.673	325.96	P077	241077.492	599341.552	99.353	
1078	791086.193	1966480.980	313.07	P078	241123.072	599383.403	95.424	
1079	789514.692	1966563.150	297.77	P079	240644.078	599408.448	90.760	
1080	790155.907	1966541.239	318.90	P080	240839.520	599401.770	97.201	
1081	788359.848	1966793.648	288.83	P081	240292.082	599478.704	88.035	
1082	788664.378	1966849.485	290.68	P082	240384.902	599495.723	88.599	
1083	787208.453	1967033.060	283.50	P083	239941.136	599551.677	86.411	
1084	787253.262	1967137.753	283.69	P084	239954.794	599583.587	86.469	
1085	798792.857	1969104.611	209.35	P085	243472.063	600183.085	63.810	
1086	798580.704	1969268.384	207.90	P086	243407.399	600233.003	63.368	
1087	798335.133	1969338.576	206.46	P087	243332.549	600254.398	62.929	

1088	798396.193	1969408.191	206.53	P088	243351.160	600275.617	62.950	
1089	798080.936	1969528.389	202.53	P089	243255.069	600312.253	61.731	
1090	797658.851	1969975.582	186.45	P090	243126.418	600448.557	56.830	
1091	797563.219	1969920.797	185.40	P091	243097.269	600431.859	56.510	
1092	796788.528	1970640.962	185.30	P092	242861.143	600651.365	56.479	
1093	796422.845	1970792.564	185.90	P093	242749.683	600697.574	56.662	
1094	795849.246	1971365.587	194.07	P094	242574.850	600872.231	59.153	
1095	795542.570	1971489.814	204.06	P095	242481.375	600910.095	62.197	
1096	795183.559	1972065.576	211.17	P096	242371.949	601085.588	64.365	
1097	794722.402	1972603.355	199.43	P097	242231.388	601249.503	60.786	
1098	794487.579	1973348.763	183.56	P098	242159.814	601476.703	55.949	
1099	794306.335	1973422.914	183.66	P099	242104.571	601499.304	55.980	
1100	793989.077	1974361.668	186.17	P100	242007.871	601785.436	56.745	
1101	793873.172	1974313.319	186.15	P101	241972.543	601770.700	56.739	
1102	793549.462	1975263.690	188.57	P102	241873.876	602060.373	57.476	
1103	793429.573	1975223.153	188.77	P103	241837.334	602048.017	57.537	
1104	793580.198	1975302.762	195.36	P104	241883.244	602072.282	59.546	
1105	793836.447	1974779.849	193.74	P105	241961.349	601912.898	59.052	
1106	793908.172	1974612.239	189.47	P106	241983.211	601861.810	57.750	
1107	793918.812	1974677.114	190.23	P107	241986.454	601881.584	57.982	
1108	793961.190	1974831.690	192.16	P108	241999.371	601928.699	58.570	
1109	794469.800	1973491.922	186.29	P109	242154.395	601520.338	56.781	
1110	795159.744	1972211.253	221.41	P110	242364.690	601129.990	67.486	
1111	795748.097	1971717.408	221.59	P111	242544.020	600979.466	67.541	
1112	795802.535	1971685.312	220.15	P112	242560.613	600969.683	67.102	
1113	795851.978	1971747.357	224.03	P113	242575.683	600988.594	68.284	
1114	795923.891	1971802.754	231.14	P114	242597.602	601005.479	70.451	
1115	796092.428	1971462.006	217.41	P115	242648.972	600901.619	66.267	
1116	796378.942	1971303.228	217.25	P116	242736.302	600853.224	66.218	
1117	795386.573	1971465.209	223.41	P117	242433.827	600902.596	68.095	
1118	796244.782	1971635.561	246.04	P118	242695.410	600954.519	74.993	
1119	796648.755	1971838.500	245.48	P119	242818.541	601016.375	74.822	
1120	796669.721	1971781.824	241.62	P120	242824.931	600999.100	73.646	
1121	797433.017	1970266.292	204.58	P121	243057.584	600537.166	62.356	
1122	796621.467	1968337.595	186.43	P122	242810.223	599949.299	56.824	
1123	796644.261	1968577.551	182.73	P123	242817.171	600022.438	55.696	
1124	797658.293	1969005.372	197.18	P124	243126.248	600152.837	60.100	
1125	798049.966	1969167.002	214.53	P125	243245.630	600202.102	65.389	
1126	798994.538	1969446.476	221.89	P126	243533.535	600287.286	67.632	
1127	799276.337	1969350.331	222.54	P127	243619.428	600257.981	67.830	
1128	798023.493	1969746.237	196.27	P128	243237.561	600378.653	59.823	
1129	798474.550	1969460.455	209.75	P129	243375.043	600291.547	63.932	
1130	798508.843	1969514.066	214.55	P130	243385.495	600307.887	65.395	
1131	798651.084	1969323.137	206.42	P131	243428.850	600249.692	62.917	
1132	799111.158	1969298.403	216.91	P132	243569.081	600242.153	66.114	
1133	798621.797	1969307.389	207.33	P133	243419.924	600244.892	63.194	
1134	799245.952	1968952.167	211.09	P134	243610.166	600136.621	64.340	

1135	799502.678	1968655.166	211.97	P135	243688.416	600046.095	64.608	
1136	799646.015	1967666.811	222.58	P136	243732.105	599744.844	67.842	
1137	799629.084	1967772.700	221.38	P137	243726.945	599777.119	67.477	
1138	799609.731	1967836.878	221.64	P138	243721.046	599796.680	67.556	
1139	799402.756	1968361.156	207.47	P139	243657.960	599956.480	63.237	
1140	799586.772	1967983.539	224.55	P140	243714.048	599841.383	68.443	
1141	799287.497	1969219.005	222.80	P141	243622.829	600217.953	67.909	
1142	799277.997	1969409.495	222.65	P142	243619.933	600276.014	67.864	
1143	799269.986	1969484.587	223.08	P143	243617.492	600298.902	67.995	
1144	799923.189	1968225.571	225.93	P144	243816.588	599915.154	68.863	
1145	800649.484	1967597.380	253.32	P145	244037.963	599723.681	77.212	
1146	804290.298	1964733.832	220.04	P146	245147.683	598850.872	67.068	
1147	804410.848	1964913.479	222.68	P147	245184.426	598905.628	67.873	
1148	804381.656	1964982.120	221.86	P148	245175.529	598926.550	67.623	
1149	804440.310	1964975.137	223.58	P149	245193.406	598924.422	68.147	
1150	804523.556	1964984.415	226.70	P150	245218.780	598927.250	69.098	
1151	804264.681	1964995.293	218.96	P151	245139.875	598930.565	66.739	
1152	804313.523	1964180.150	220.78	P152	245154.762	598682.110	67.294	
1153	804358.453	1963833.367	232.97	P153	245168.456	598576.410	71.009	
1154	804437.040	1963615.396	232.47	P154	245192.410	598509.973	70.857	
1155	804444.292	1963698.847	231.66	P155	245194.620	598535.409	70.610	
1156	804487.245	1963712.063	231.89	P156	245207.712	598539.437	70.680	
1157	804447.083	1963729.702	231.36	P157	245195.471	598544.813	70.519	
1158	804501.798	1963983.756	232.48	P158	245212.148	598622.249	70.860	
1159	804659.001	1964427.547	233.43	P159	245260.064	598757.516	71.149	
1160	804710.636	1964598.524	231.29	P160	245275.802	598809.630	70.497	
1161	804766.592	1964603.149	229.98	P161	245292.857	598811.040	70.098	
1162	804670.695	1964692.695	232.30	P162	245263.628	598838.333	70.805	
1163	804781.098	1964710.595	231.11	P163	245297.279	598843.789	70.442	
1164	805680.554	1963475.834	257.36	P164	245571.433	598467.434	78.443	
1165	806248.917	1962962.337	245.94	P165	245744.670	598310.920	74.963	
1166	811794.885	1957588.678	294.32	P166	247435.081	596673.029	89.709	
1167	810912.112	1958444.662	282.52	P167	247166.012	596933.933	86.112	
1168	812872.287	1956627.352	275.22	p168	247763.473	596380.017	83.887	
1169	812682.819	1956757.893	275.42	P169	247705.723	596419.806	83.948	
1170	812995.307	1957144.311	280.01	P170	247800.970	596537.586	85.347	
1171	812862.556	1957227.535	280.71	P171	247760.507	596562.953	85.560	
1172	813826.154	1956353.499	245.44	P172	248054.212	596296.546	74.810	
1173	814869.295	1955416.543	249.83	P173	248372.161	596010.962	76.148	
1174	816251.030	1953486.146	328.47	P174	248793.314	595422.577	100.118	
1175	816369.043	1953522.597	332.50	P175	248829.284	595433.688	101.346	
1176	816312.909	1953572.598	331.90	P176	248812.175	595448.928	101.163	
1177	816463.105	1953595.564	336.17	P177	248857.954	595455.928	102.465	
1178	816427.490	1953649.124	336.22	P178	248847.099	595472.253	102.480	
1179	817018.371	1953970.734	331.75	P179	249027.199	595570.280	101.117	
1180	817169.246	1953999.649	324.32	P180	249073.186	595579.093	98.853	
1181	817123.142	1954061.980	326.48	P181	249059.134	595598.092	99.511	

1182	817193.154	1954111.660	322.07	P182	249080.473	595613.234	98.167	
1183	821530.196	1948947.167	320.15	P183	250402.404	594039.097	97.582	
1184	821432.236	1949086.906	318.72	P184	250372.546	594081.689	97.146	
1185	821250.795	1949349.599	314.68	P185	250317.242	594161.758	95.914	
1186	821416.832	1949400.275	319.82	P186	250367.850	594177.204	97.481	
1187	821378.161	1949664.251	320.52	P187	250356.063	594257.664	97.694	
1188	821451.378	1949995.500	316.59	P188	250378.380	594358.628	96.497	
1189	821403.090	1950319.431	307.57	P189	250363.662	594457.363	93.747	
1190	821515.891	1950362.715	309.46	P190	250398.044	594470.556	94.323	
1191	821371.747	1950565.894	300.88	P191	250354.108	594532.484	91.708	
1192	821215.233	1950795.694	297.39	P192	250306.403	594602.528	90.644	
1193	820775.094	1949965.208	299.82	P193	250172.249	594349.395	91.385	
1194	822025.184	1950004.552	312.99	P194	250553.276	594361.387	95.399	
1224	801285.670	1965090.503	214.55	P224	244231.872	598959.585	65.395	
1225	801310.920	1965491.644	222.49	P225	244239.568	599081.853	67.815	
1226	801595.479	1965991.717	238.47	P226	244326.302	599234.275	72.686	
1227	801537.566	1966135.493	241.69	P227	244308.650	599278.098	73.667	
1228	801882.707	1966831.310	267.54	P228	244413.849	599490.183	81.546	
1229	801826.670	1966991.389	273.21	P229	244396.769	599538.975	83.274	
1231	802047.651	1967635.747	290.03	P231	244464.124	599735.376	88.401	
1232	802126.040	1967541.782	291.87	P232	244488.017	599706.735	88.962	
1275	799385.280	1964223.653	207.11	P275	243652.633	598695.369	63.127	
1276	799946.355	1964529.978	220.32	P276	243823.649	598788.737	67.154	
1277	800589.644	1964731.939	201.55	P277	244019.723	598850.295	61.432	
1278	800972.513	1966300.617	250.99	P278	244136.422	599328.428	76.502	
1279	801908.400	1965623.349	243.65	P279	244421.680	599121.997	74.265	
1280	801461.330	1967329.169	274.11	P280	244285.413	599641.931	83.549	
1281	802159.758	1967388.155	287.43	P281	244498.294	599659.910	87.609	
1282	802456.679	1966654.608	286.12	P282	244588.796	599436.325	87.209	
1283	801767.156	1967544.662	303.06	P283	244378.629	599707.613	92.373	
1284	802259.245	1967347.148	311.36	P284	244528.618	599647.411	94.903	
1298	788132.339	1967039.781	283.02	P298	240222.737	599553.725	86.264	
1299	789114.786	1966922.433	292.74	P299	240522.187	599517.958	89.227	
1300	789533.999	1966750.933	324.21	P300	240649.963	599465.684	98.819	
1301	789849.722	1966684.542	326.28	P301	240746.195	599445.448	99.450	
1302	789951.405	1966372.211	327.08	P302	240777.188	599350.250	99.694	
1303	789591.291	1966483.925	328.81	P303	240667.425	599384.300	100.221	
1304	789509.849	1966369.204	312.73	P304	240642.602	599349.333	95.320	
1305	788804.624	1966626.911	292.76	P305	240427.649	599427.882	89.233	
1306	787977.268	1966796.243	287.24	P306	240175.471	599479.495	87.551	
1307	789941.592	1966727.659	317.79	P307	240774.197	599458.590	96.862	
1308	790639.386	1966548.495	317.33	P308	240986.885	599403.981	96.722	
1309	822145.420	1948981.030	331.49	P309	250589.924	594049.418	101.038	
2001	822947.637	1948497.839	326.12	V001	250834.440	593902.141	99.401	
2002	822858.871	1948407.260	326.46	V002	250807.384	593874.533	99.505	
2003	822567.958	1948845.614	333.20	V003	250718.714	594008.143	101.559	
2004	822470.634	1948760.055	333.18	V004	250689.049	593982.065	101.553	

2005	821882.616	1949458.377	314.39	V005	250509.821	594194.913	95.826	
2006	821843.938	1949351.938	316.55	V006	250498.032	594162.471	96.484	
2007	820996.218	1950282.700	302.29	V007	250239.647	594446.167	92.138	
2008	820947.291	1950170.737	301.51	V008	250224.734	594412.041	91.900	
2009	820660.206	1950554.640	297.08	V009	250137.231	594529.054	90.550	
2010	820644.916	1950432.890	297.84	V010	250132.570	594491.945	90.782	
2011	820032.202	1951090.854	288.24	V011	249945.815	594692.492	87.856	
2012	819948.856	1950966.676	287.80	V012	249920.411	594654.643	87.721	
2013	819637.828	1951399.429	281.87	V013	249825.610	594786.546	85.914	
2014	819594.832	1951271.951	282.41	V014	249812.505	594747.691	86.079	
2015	818892.771	1952015.393	277.55	V015	249598.517	594974.292	84.597	
2016	818840.693	1951921.011	277.11	V016	249582.643	594945.524	84.463	
2017	818237.158	1952563.797	294.10	V017	249398.686	595141.445	89.642	
2018	818084.292	1952553.696	296.20	V018	249352.092	595138.367	90.282	
2019	817858.526	1952891.517	303.17	V019	249283.279	595241.334	92.406	
2020	817718.706	1952856.904	305.39	V020	249240.662	595230.784	93.083	
2021	817228.225	1953391.681	318.55	V021	249091.163	595393.784	97.094	
2022	817020.777	1953429.455	320.05	V022	249027.933	595405.298	97.551	
2023	816661.565	1953873.938	312.80	V023	248918.445	595540.776	95.341	
2024	816730.018	1953669.560	317.24	V024	248939.309	595478.482	96.695	
2025	816293.219	1954166.153	299.16	V025	248806.173	595629.843	91.184	
2026	816253.331	1954063.345	300.15	V026	248794.015	595598.508	91.486	
2027	815577.497	1954752.408	272.64	V027	248588.021	595808.534	83.101	
2028	815553.532	1954631.837	274.10	V028	248580.717	595771.784	83.546	
2029	815211.554	1955053.538	258.78	V029	248476.482	595900.318	78.876	
2030	815171.791	1954950.872	259.83	V030	248464.362	595869.026	79.196	
2031	814473.348	1955677.411	247.62	V031	248251.476	596090.475	75.475	
2032	814356.586	1955627.952	247.97	V032	248215.887	596075.400	75.581	
2033	813731.988	1956316.020	246.24	V033	248025.510	596285.123	75.054	
2034	813958.162	1955935.402	246.56	V034	248094.448	596169.111	75.151	
2035	813109.231	1956789.454	254.32	V035	247835.694	596429.426	77.517	
2036	813239.778	1956548.496	251.75	V036	247875.484	596355.982	76.733	
2037	812780.702	1957062.039	258.21	V037	247735.558	596512.509	78.702	
2038	812913.404	1956817.382	255.75	V038	247776.006	596437.938	77.953	
2039	812464.403	1957323.411	263.12	V039	247639.150	596592.176	80.199	
2040	812363.495	1957271.493	264.11	V040	247608.393	596576.351	80.501	
2041	813191.996	1956875.259	262.01	V041	247860.920	596455.579	79.861	
2042	812490.270	1957411.178	267.10	V042	247647.034	596618.927	81.412	
2043	811823.774	1957882.066	294.72	V043	247443.886	596762.454	89.831	
2044	811526.184	1957936.314	299.89	V044	247353.181	596778.989	91.406	
2045	811147.920	1958445.591	292.72	V045	247237.886	596934.216	89.221	
2046	811155.482	1958282.837	295.30	V046	247240.191	596884.609	90.007	
2047	810469.345	1959057.977	278.64	V047	247031.056	597120.871	84.929	
2048	810413.175	1958976.559	278.40	V048	247013.936	597096.055	84.856	
2049	810106.043	1959387.342	290.55	V049	246920.322	597221.262	88.560	
2050	810033.553	1959320.410	290.83	V050	246898.227	597200.861	88.645	
2051	809364.206	1960058.818	313.95	V051	246694.210	597425.928	95.692	

2052	809300.809	1959983.197	313.82	V052	246674.887	597402.878	95.652	
2053	808992.973	1960395.615	312.60	V053	246581.058	597528.583	95.280	
2054	808931.839	1960317.451	312.82	V054	246562.425	597504.759	95.348	
2055	808265.128	1961053.195	299.62	V055	246359.211	597729.014	91.324	
2056	808200.843	1960979.111	299.82	V056	246339.617	597706.433	91.385	
2057	807881.521	1961402.200	287.36	V057	246242.288	597835.391	87.587	
2058	807826.017	1961318.873	288.06	V058	246225.370	597809.992	87.801	
2059	807164.435	1962050.822	252.74	V059	246023.720	598033.091	77.035	
2060	807105.440	1961971.126	253.21	V060	246005.738	598008.799	77.178	
2061	806791.402	1962388.299	239.13	V061	245910.019	598135.954	72.887	
2062	806726.277	1962313.762	239.17	V062	245890.169	598113.235	72.899	
2063	806089.113	1963036.053	253.18	V063	245695.962	598333.389	77.169	
2064	806009.181	1962962.706	253.69	V064	245671.598	598311.033	77.325	
2065	805380.639	1963665.405	251.25	V065	245480.019	598525.215	76.581	
2066	805384.660	1963507.341	252.39	V066	245481.244	598477.038	76.928	
2067	804485.119	1964379.417	210.92	V067	245207.064	598742.846	64.288	
2068	804624.039	1964117.105	213.55	V068	245249.407	598662.894	65.090	
2069	804111.390	1964676.902	212.82	V069	245093.152	598833.520	64.868	
2070	804209.098	1964440.271	212.63	V070	245122.933	598761.395	64.810	
2071	803507.870	1965167.089	216.56	V071	244909.199	598982.929	66.007	
2072	803792.822	1964755.968	214.30	V072	244996.052	598857.619	65.319	
2073	802961.365	1965596.755	240.54	V073	244742.624	599113.891	73.317	
2074	803105.042	1965296.778	228.04	V074	244786.417	599022.458	69.507	
2075	802320.288	1966085.646	271.58	V075	244547.224	599262.905	82.778	
2076	802378.739	1965882.946	266.92	V076	244565.040	599201.122	81.357	
2077	801088.170	1967107.148	269.77	V077	244171.674	599574.259	82.226	
2078	801120.402	1966909.290	271.32	V078	244181.499	599513.952	82.698	
2079	800412.930	1967723.143	241.90	V079	243965.861	599762.014	73.731	
2080	800509.216	1967441.477	252.30	V080	243995.209	599676.162	76.901	
2081	800060.594	1968036.089	228.00	V081	243858.469	599857.400	69.494	
2082	799866.100	1968031.233	225.40	V082	243799.187	599855.920	68.702	
2083	799344.336	1968641.857	212.76	V083	243640.154	600042.038	64.849	
2084	799567.654	1968298.624	217.08	V084	243708.221	599937.421	66.166	
2085	799067.187	1968883.458	210.88	V085	243555.679	600115.678	64.276	
2086	799078.622	1968719.317	210.01	V086	243559.164	600065.648	64.011	
2087	799160.958	1969344.586	220.38	V087	243584.260	600256.230	67.172	
2088	798602.339	1969134.223	207.89	V088	243413.993	600192.111	63.365	
2089	798006.674	1969709.103	197.92	V089	243232.434	600367.335	60.326	
2090	797729.785	1969784.083	190.11	V090	243148.038	600390.188	57.946	
2091	797464.223	1970123.784	183.48	V091	243067.095	600493.729	55.925	
2092	797108.913	1970272.671	184.02	V092	242958.797	600539.110	56.089	
2093	797106.638	1970394.505	184.02	V093	242958.103	600576.245	56.089	
2094	796780.693	1970520.704	184.86	V094	242858.755	600614.711	56.345	
2095	796468.326	1970896.708	185.32	V095	242763.546	600729.317	56.486	
2096	796046.919	1971076.749	189.48	V096	242635.101	600784.193	57.754	
2097	796135.358	1971146.961	188.66	V097	242662.057	600805.594	57.504	
2098	795722.540	1971328.064	199.20	V098	242536.230	600860.794	60.716	

2099	795679.817	1971509.103	198.33	V099	242523.208	600915.975	60.451	
2100	795226.807	1971826.893	212.88	V100	242385.131	601012.837	64.886	
2101	795375.756	1971820.877	207.04	V101	242430.530	601011.003	63.106	
2102	794945.133	1972213.357	211.92	V102	242299.277	601130.631	64.593	
2103	794928.385	1972475.658	201.46	V103	242294.172	601210.581	61.405	
2104	794501.933	1972997.373	186.52	V104	242164.189	601369.599	56.851	
2105	794706.462	1972917.977	190.47	V105	242226.530	601345.399	58.055	
2106	794087.270	1973878.126	184.93	V106	242037.800	601638.053	56.367	
2107	794323.982	1973686.267	184.15	V107	242109.950	601579.574	56.129	
2108	793657.127	1974752.714	187.23	V108	241906.692	601904.627	57.068	
2109	794148.077	1974040.195	185.33	V109	242056.334	601687.451	56.489	
2110	793773.053	1974804.971	187.30	V110	241942.027	601920.555	57.089	
2111	798019.682	1969031.043	209.46	V111	243236.399	600160.662	63.843	
2112	797368.807	1968881.647	186.82	V112	243038.012	600115.126	56.943	
2113	797617.838	1968863.025	192.95	V113	243113.917	600109.450	58.811	
2114	796255.898	1968418.628	184.89	V114	242698.798	599973.998	56.354	
2115	796221.121	1968279.220	185.48	V115	242688.198	599931.506	56.534	
2116	795464.392	1968086.086	198.37	V116	242457.547	599872.639	60.463	
2117	795517.759	1967983.309	198.11	V117	242473.813	599841.313	60.384	
2118	795009.180	1967901.625	202.75	V118	242318.798	599816.415	61.798	
2119	795050.181	1967795.911	202.97	V119	242331.295	599784.194	61.865	
2120	794071.473	1967524.053	197.79	V120	242032.985	599701.331	60.286	
2121	794105.673	1967418.764	198.23	V121	242043.409	599669.239	60.421	
2122	793615.590	1967334.273	214.84	V122	241894.032	599643.486	65.483	
2123	793636.457	1967228.386	215.79	V123	241900.392	599611.212	65.773	
2124	792693.961	1966949.925	255.30	V124	241613.119	599526.337	77.815	
2125	792739.478	1966845.169	255.51	V125	241626.993	599494.408	77.879	
2126	792235.049	1966756.671	274.21	V126	241473.243	599467.433	83.579	
2127	792286.437	1966654.202	276.83	V127	241488.906	599436.201	84.378	
2128	791449.991	1966517.639	300.79	V128	241233.957	599394.576	91.681	
2129	791389.503	1966381.397	311.99	V129	241215.521	599353.050	95.095	
2130	790618.644	1966488.686	322.38	V130	240980.563	599385.751	98.261	
2131	790674.808	1966353.557	329.87	V131	240997.681	599344.564	100.544	
2132	789887.451	1966591.852	309.20	V132	240757.695	599417.196	94.244	
2133	790284.354	1966402.266	325.66	V133	240878.671	599359.411	99.261	
2134	789520.848	1966668.557	297.20	V134	240645.954	599440.576	90.587	
2135	789873.444	1966486.664	310.59	V135	240753.426	599385.135	94.668	
2136	789093.855	1966758.313	293.66	V136	240515.807	599467.934	89.508	
2137	789118.258	1966643.401	294.02	V137	240523.245	599432.909	89.617	
2138	788198.563	1966968.846	287.28	V138	240242.922	599532.104	87.563	
2139	788730.942	1966726.071	291.62	V139	240405.191	599458.106	88.886	
2140	787740.314	1967043.139	285.83	V140	240103.248	599554.749	87.121	
2141	787946.431	1966863.582	286.65	V141	240166.072	599500.020	87.371	
2142	787579.139	1966955.158	285.17	V142	240054.122	599527.932	86.920	
2223	820911.208	1949721.960	302.86	V223	250213.736	594275.253	92.312	
2224	821133.506	1949429.942	313.21	V224	250281.493	594186.246	95.466	
2225	820866.148	1949538.595	304.78	V225	250200.002	594219.364	92.897	

2226	820634.947	1950347.200	296.54	V226	250129.532	594465.827	90.385	
2227	820727.287	1950580.767	295.77	V227	250157.677	594537.018	90.151	
2228	821092.163	1950454.748	297.06	V228	250268.891	594498.607	90.544	
2229	821847.917	1950325.624	310.58	V229	250499.245	594459.250	94.665	
2230	822017.477	1949538.756	322.75	V230	250550.927	594219.413	98.374	
2231	821656.026	1950294.270	309.75	V231	250440.757	594449.693	94.412	
2232	821940.849	1949961.149	305.73	V232	250527.571	594348.158	93.187	
2233	816887.758	1953358.923	324.79	V233	248987.389	595383.800	98.996	
2234	816193.344	1953966.834	310.14	V234	248775.731	595569.091	94.531	
2235	817236.303	1953711.243	316.84	V235	249093.625	595491.187	96.573	
2236	817347.009	1953648.616	318.92	V236	249127.368	595472.098	97.207	
2237	814492.871	1955722.418	251.03	V237	248257.427	596104.193	76.514	
2238	814131.938	1956028.643	249.62	V238	248147.415	596197.530	76.084	
2239	813210.868	1956442.917	259.80	V239	247866.673	596323.801	79.187	
2240	812403.112	1957071.123	262.60	V240	247620.469	596515.278	80.040	
2241	812168.477	1957344.275	269.41	v241	247548.952	596598.535	82.116	
2242	811527.381	1957891.912	307.64	V242	247353.546	596765.455	93.769	
2243	811232.558	1958156.537	294.11	V243	247263.684	596846.112	89.645	
2244	805970.946	1963214.885	247.46	V244	245659.944	598387.897	75.426	
2245	804754.664	1963733.816	232.98	V245	245289.222	598546.067	71.012	
2246	805000.788	1964368.765	220.58	V246	245364.240	598739.600	67.233	
2247	804938.924	1964417.017	219.30	V247	245345.384	598754.307	66.843	
2248	802307.563	1965681.956	252.69	V248	244543.345	599139.860	77.020	
2249	801555.668	1965439.852	226.26	V249	244314.168	599066.067	68.964	
2250	801146.122	1965888.187	229.11	V250	244189.338	599202.719	69.833	
2251	800936.215	1966708.704	269.23	V251	244125.358	599452.813	82.061	
2252	801120.187	1967284.432	268.41	V252	244181.433	599628.295	81.811	
2253	801776.846	1967414.831	280.72	V253	244381.583	599668.040	85.563	
2254	802309.153	1967035.509	283.94	V254	244543.830	599552.423	86.545	
2255	802500.245	1966244.131	274.86	V255	244602.075	599311.211	83.777	
2256	801147.548	1966111.431	243.34	V256	244189.773	599270.764	74.170	
2257	801033.463	1966479.561	260.44	V257	244155.000	599382.970	79.382	
2258	801907.560	1965728.778	249.24	V258	244421.424	599154.132	75.968	
2259	801467.340	1967257.602	281.22	V259	244287.245	599620.117	85.716	
2260	802360.111	1966537.949	276.29	V260	244559.362	599400.767	84.213	
2261	802207.036	1966874.983	277.22	V261	244512.705	599503.495	84.497	
2262	799862.805	1967825.387	225.77	V262	243798.183	599793.178	68.815	
2263	799773.116	1967997.890	219.60	V263	243770.846	599845.757	66.934	
2264	799571.588	1968180.001	212.46	V264	243709.420	599901.264	64.758	
2265	799107.648	1968624.164	210.06	V265	243568.011	600036.645	64.026	
2266	798790.595	1968876.162	204.70	V266	243471.373	600113.454	62.393	
2267	799144.401	1969123.963	210.96	V267	243579.213	600188.984	64.301	
2268	798888.495	1969259.785	211.56	V268	243501.213	600230.382	64.483	
2269	798299.133	1969576.650	204.96	V269	243321.576	600326.963	62.472	
2270	798096.078	1969349.606	211.16	V270	243259.685	600257.760	64.362	
2271	799258.006	1968826.308	213.89	V271	243613.840	600098.259	65.194	
2272	800274.275	1967891.150	233.58	V272	243923.599	599813.223	71.195	



2273	798936.137	1969156.406	211.66	V273	243515.735	600198.873	64.514	
2274	798673.139	1969426.991	229.32	V274	243435.573	600281.347	69.897	
2275	796257.041	1968228.559	184.81	V275	242699.146	599916.065	56.330	
2276	797153.380	1970434.314	194.70	V276	242972.350	600588.379	59.345	
2277	796422.437	1971716.189	245.30	V277	242749.559	600979.094	74.767	
2278	796324.480	1971309.413	218.20	V278	242719.702	600855.109	66.507	
2279	795947.087	1971538.576	213.28	V279	242604.672	600924.958	65.008	
2280	795440.485	1971931.057	226.94	V280	242450.260	601044.586	69.171	
2281	795685.364	1971655.617	235.83	V281	242524.899	600960.632	71.881	
2282	795400.158	1971891.433	218.56	V282	242437.968	601032.509	66.617	
2283	794880.369	1972178.645	210.81	V283	242279.536	601120.051	64.255	
2284	795063.067	1971789.299	214.55	V284	242335.223	601001.378	65.395	
2298	799649.166	1964428.440	214.99	V298	243733.066	598757.789	65.529	
2299	800260.166	1964689.147	197.79	V299	243919.299	598837.252	60.286	
2300	800581.119	1964734.400	201.61	V300	244017.125	598851.045	61.451	
2311	798305.949	1969272.956	226.96	V311	243323.653	600234.397	69.177	
2312	790430.566	1966318.145	329.57	V312	240923.237	599333.771	100.453	
2313	789200.912	1966572.510	307.17	V313	240548.438	599411.301	93.625	
2314	788792.776	1966663.319	291.59	V314	240424.038	599438.980	88.877	
2315	789182.569	1966538.174	296.32	V315	240542.847	599400.835	90.318	
2316	788387.841	1966711.635	290.59	V316	240300.614	599453.706	88.572	
2317	788625.451	1966936.354	287.36	V317	240373.037	599522.201	87.587	
2318	789112.837	1966821.815	303.11	V318	240521.593	599487.289	92.388	
2319	790271.692	1966596.848	323.63	V319	240874.812	599418.719	98.642	
2320	821775.892	1949218.831	320.53	V320	250477.292	594121.900	97.698	
2321	804060.103	1964840.507	211.83	V321	245077.519	598883.387	64.566	
2322	804467.529	1964638.608	228.10	V322	245201.703	598821.848	69.525	



# Mobile LiDAR Control to DTM Surface RMSE Report

Compare COGO Points to TIN Surface

JOB File:

Y:\SCDOT\2019\P027662\_CarolinaCrossroads\_I20\_I26\_HN42.003.000\Working\Microstation\job009.gpk

TIN File:

Y:\SCDOT\2019\P027662\_CarolinaCrossroads\_I20\_I26\_HN42.003.000\Working\Microstation\P027662dtm.tin

Point	Feature	COGO Elevation	TIN Elevation	Elev Diff	Location
1003	NOFEAT	331.7500	331.7121	0.0379	ABOVE*
1004	NOFEAT	331.4500	331.4426	0.0074	ABOVE
1005	NOFEAT	298.3700	298.3703	-0.0003	BELOW
1006	NOFEAT	296.9200	296.9141	0.0059	ABOVE
1007	NOFEAT	297.9300	297.9239	0.0061	ABOVE
1008	NOFEAT	297.9100	297.9083	0.0017	ABOVE
1009	NOFEAT	291.0700	291.0701	-0.0001	BELOW
1010	NOFEAT	290.6100	290.6071	0.0029	ABOVE
1011	NOFEAT	272.8700	272.8724	-0.0024	BELOW
1012	NOFEAT	272.9800	272.9730	0.0070	ABOVE
1013	NOFEAT	286.8600	286.8559	0.0041	ABOVE
1014	NOFEAT	286.9900	286.9884	0.0016	ABOVE
1015	NOFEAT	315.0400	315.0328	0.0072	ABOVE
1016	NOFEAT	311.5800	311.5787	0.0013	ABOVE
1017	NOFEAT	312.1900	312.1850	0.0050	ABOVE
1018	NOFEAT	320.0200	320.0131	0.0069	ABOVE
1019	NOFEAT	288.2900	288.2890	0.0010	ABOVE
1020	NOFEAT	285.7600	285.7593	0.0007	ABOVE
1021	NOFEAT	249.7900	249.7704	0.0196	ABOVE
1022	NOFEAT	249.4100	249.4050	0.0050	ABOVE
1023	NOFEAT	247.8400	247.8397	0.0003	ABOVE
1024	NOFEAT	246.5000	246.4992	0.0008	ABOVE
1025	NOFEAT	251.2100	251.2081	0.0019	ABOVE
1026	NOFEAT	256.2500	256.2498	0.0002	ABOVE
1027	NOFEAT	257.9500	257.9507	-0.0007	BELOW
1028	NOFEAT	278.3800	278.3822	-0.0022	BELOW
1029	NOFEAT	287.6100	287.6000	0.0100	ABOVE
1030	NOFEAT	300.1600	300.1560	0.0040	ABOVE
1031	NOFEAT	278.9300	278.9276	0.0024	ABOVE
1032	NOFEAT	278.5800	278.5760	0.0040	ABOVE
1033	NOFEAT	303.1300	303.1244	0.0056	ABOVE
1034	NOFEAT	302.4500	302.4394	0.0106	ABOVE
1035	NOFEAT	306.5000	306.4893	0.0107	ABOVE
1036	NOFEAT	306.0000	305.9920	0.0080	ABOVE
1037	NOFEAT	270.0000	269.9968	0.0032	ABOVE
1038	NOFEAT	270.5600	270.5598	0.0002	ABOVE
1039	NOFEAT	244.7000	244.6928	0.0072	ABOVE

1040	NOFEAT	245.0000	244.9937	0.0063	ABOVE
1041	NOFEAT	258.2800	258.2765	0.0035	ABOVE
1042	NOFEAT	258.7400	258.7387	0.0013	ABOVE
1043	NOFEAT	235.8000	235.7964	0.0036	ABOVE
1044	NOFEAT	226.3800	226.3787	0.0013	ABOVE
1045	NOFEAT	223.4100	223.4128	-0.0028	BELOW
1046	NOFEAT	214.9800	214.9792	0.0008	ABOVE
1047	NOFEAT	211.0300	211.0289	0.0011	ABOVE
1048	NOFEAT	214.2400	214.2371	0.0029	ABOVE
1049	NOFEAT	216.3600	216.3560	0.0040	ABOVE
1050	NOFEAT	225.8400	225.8423	-0.0023	BELOW
1051	NOFEAT	249.2500	249.2388	0.0112	ABOVE
1052	NOFEAT	259.1600	259.1619	-0.0019	BELOW
1053	NOFEAT	275.5400	275.5396	0.0004	ABOVE
1054	NOFEAT	275.8200	275.8163	0.0037	ABOVE
1055	NOFEAT	275.8300	275.8287	0.0013	ABOVE
1056	NOFEAT	273.5100	273.5085	0.0015	ABOVE
1057	NOFEAT	267.6600	267.6595	0.0005	ABOVE
1058	NOFEAT	262.8000	262.7905	0.0095	ABOVE
1059	NOFEAT	234.5800	234.5801	-0.0001	BELOW
1060	NOFEAT	218.3900	218.3895	0.0005	ABOVE
1061	NOFEAT	213.1700	213.1635	0.0065	ABOVE
1062	NOFEAT	215.4700	215.4703	-0.0003	BELOW
1063	NOFEAT	208.4000	208.3933	0.0067	ABOVE
1064	NOFEAT	232.3200	232.3186	0.0014	ABOVE
1065	NOFEAT	206.8600	206.8629	-0.0029	BELOW
1066	NOFEAT	227.3900	227.3831	0.0069	ABOVE
1067	NOFEAT	185.1300	185.0920	0.0380	ABOVE*
1068	NOFEAT	181.6300	181.6281	0.0019	ABOVE
1069	NOFEAT	188.4200	188.4168	0.0032	ABOVE
1070	NOFEAT	187.7500	187.7369	0.0131	ABOVE
1071	NOFEAT	198.5300	198.5310	-0.0010	BELOW
1072	NOFEAT	197.7200	197.7147	0.0053	ABOVE
1073	NOFEAT	235.0700	235.0650	0.0050	ABOVE
1074	NOFEAT	234.9000	234.8980	0.0020	ABOVE
1075	NOFEAT	296.5800	296.5861	-0.0061	BELOW
1076	NOFEAT	290.0100	290.0019	0.0081	ABOVE
1077	NOFEAT	325.9600	325.9586	0.0014	ABOVE
1078	NOFEAT	313.0700	313.0652	0.0048	ABOVE
1079	NOFEAT	297.7700	297.7627	0.0073	ABOVE
1080	NOFEAT	318.9000	318.9044	-0.0044	BELOW
1081	NOFEAT	288.8300	288.8227	0.0073	ABOVE
1082	NOFEAT	290.6800	290.6682	0.0118	ABOVE
1085	NOFEAT	209.3500	209.3461	0.0039	ABOVE
1086	NOFEAT	207.9000	207.8975	0.0025	ABOVE
1087	NOFEAT	206.4600	206.4492	0.0108	ABOVE
1088	NOFEAT	206.5300	206.5473	-0.0173	BELOW
1089	NOFEAT	202.5300	202.5270	0.0030	ABOVE
1090	NOFEAT	186.4500	186.4407	0.0093	ABOVE
1091	NOFEAT	185.4000	185.3972	0.0028	ABOVE

1092	NOFEAT	185.3000	185.2948	0.0052	ABOVE
1093	NOFEAT	185.9000	185.8895	0.0105	ABOVE
1094	NOFEAT	194.0700	194.0692	0.0008	ABOVE
1095	NOFEAT	204.0600	204.0420	0.0180	ABOVE
1096	NOFEAT	211.1700	211.1679	0.0021	ABOVE
1097	NOFEAT	199.4300	199.4294	0.0006	ABOVE
1098	NOFEAT	183.5600	183.5584	0.0016	ABOVE
1099	NOFEAT	183.6600	183.6589	0.0011	ABOVE
1100	NOFEAT	186.1700	186.1653	0.0047	ABOVE
1101	NOFEAT	186.1500	186.1484	0.0016	ABOVE
1105	NOFEAT	193.7400	193.7333	0.0067	ABOVE
1106	NOFEAT	189.4700	189.4560	0.0140	ABOVE
1107	NOFEAT	190.2300	190.2289	0.0011	ABOVE
1109	NOFEAT	186.2900	186.2768	0.0132	ABOVE
1110	NOFEAT	221.4100	221.4097	0.0003	ABOVE
1111	NOFEAT	221.5900	221.5786	0.0114	ABOVE
1112	NOFEAT	220.1500	220.1522	-0.0022	BELOW
1113	NOFEAT	224.0300	224.0277	0.0023	ABOVE
1115	NOFEAT	217.4100	217.4012	0.0088	ABOVE
1117	NOFEAT	223.4100	223.4112	-0.0012	BELOW
1118	NOFEAT	246.0400	246.0360	0.0040	ABOVE
1121	NOFEAT	204.5800	204.5787	0.0013	ABOVE
1122	NOFEAT	186.4300	186.4243	0.0057	ABOVE
1123	NOFEAT	182.7300	182.7159	0.0141	ABOVE
1124	NOFEAT	197.1800	197.1812	-0.0012	BELOW
1125	NOFEAT	214.5300	214.5173	0.0127	ABOVE
1126	NOFEAT	221.8900	221.8857	0.0043	ABOVE
1127	NOFEAT	222.5400	222.5351	0.0049	ABOVE
1129	NOFEAT	209.7500	209.7466	0.0034	ABOVE
1131	NOFEAT	206.4200	206.4200	0.0000	EQUAL
1132	NOFEAT	216.9100	216.8953	0.0147	ABOVE
1133	NOFEAT	207.3300	207.3260	0.0040	ABOVE
1134	NOFEAT	211.0900	211.0773	0.0127	ABOVE
1135	NOFEAT	211.9700	211.9664	0.0036	ABOVE
1137	NOFEAT	221.3800	221.3787	0.0013	ABOVE
1138	NOFEAT	221.6400	221.6377	0.0023	ABOVE
1139	NOFEAT	207.4700	207.4661	0.0039	ABOVE
1141	NOFEAT	222.8000	222.7998	0.0002	ABOVE
1142	NOFEAT	222.6500	222.6514	-0.0014	BELOW
1145	NOFEAT	253.3200	253.3239	-0.0039	BELOW
1146	NOFEAT	220.0400	220.0419	-0.0019	BELOW
1147	NOFEAT	222.6800	222.6771	0.0029	ABOVE
1148	NOFEAT	221.8600	221.8614	-0.0014	BELOW
1149	NOFEAT	223.5800	223.5997	-0.0197	BELOW
1152	NOFEAT	220.7800	220.7751	0.0049	ABOVE
1155	NOFEAT	231.6600	231.6600	0.0000	EQUAL
1156	NOFEAT	231.8900	231.8877	0.0023	ABOVE
1157	NOFEAT	231.3600	231.3630	-0.0030	BELOW
1158	NOFEAT	232.4800	232.4681	0.0119	ABOVE
1159	NOFEAT	233.4300	233.4255	0.0045	ABOVE

1161	NOFEAT	229.9800	229.9586	0.0214	ABOVE
1175	NOFEAT	332.5000	332.5026	-0.0026	BELOW
1176	NOFEAT	331.9000	331.9037	-0.0037	BELOW
1180	NOFEAT	324.3200	324.3177	0.0023	ABOVE
1181	NOFEAT	326.4800	326.4780	0.0020	ABOVE
1185	NOFEAT	314.6800	314.6721	0.0079	ABOVE
1186	NOFEAT	319.8200	319.8119	0.0081	ABOVE
1187	NOFEAT	320.5200	320.5197	0.0003	ABOVE
1189	NOFEAT	307.5700	307.5675	0.0025	ABOVE
1190	NOFEAT	309.4600	309.4638	-0.0038	BELOW
1192	NOFEAT	297.3900	297.3898	0.0002	ABOVE
1193	NOFEAT	299.8200	299.8185	0.0015	ABOVE
1194	NOFEAT	312.9900	312.9887	0.0013	ABOVE
1228	NOFEAT	267.5400	267.5303	0.0097	ABOVE
1276	NOFEAT	220.3200	220.3040	0.0160	ABOVE
1278	NOFEAT	250.9900	250.9816	0.0084	ABOVE
1279	NOFEAT	243.6500	243.6549	-0.0049	BELOW
1280	NOFEAT	274.1100	274.1071	0.0029	ABOVE
1281	NOFEAT	287.4300	287.4356	-0.0056	BELOW
1282	NOFEAT	286.1200	286.1253	-0.0053	BELOW
1305	NOFEAT	292.7600	292.7594	0.0006	ABOVE
1309	NOFEAT	331.4900	331.4858	0.0042	ABOVE
2001	NOFEAT	326.1200	326.1178	0.0022	ABOVE
2002	NOFEAT	326.4600	326.4576	0.0024	ABOVE
2003	NOFEAT	333.2000	333.1985	0.0015	ABOVE
2004	NOFEAT	333.1800	333.1863	-0.0063	BELOW
2005	NOFEAT	314.3900	314.3648	0.0252	ABOVE*
2006	NOFEAT	316.5500	316.5504	-0.0004	BELOW
2007	NOFEAT	302.2900	302.2870	0.0030	ABOVE
2008	NOFEAT	301.5100	301.5099	0.0001	ABOVE
2009	NOFEAT	297.0800	297.0831	-0.0031	BELOW
2010	NOFEAT	297.8400	297.7958	0.0442	ABOVE*
2011	NOFEAT	288.2400	288.2450	-0.0050	BELOW
2012	NOFEAT	287.8000	287.7962	0.0038	ABOVE
2013	NOFEAT	281.8700	281.8699	0.0001	ABOVE
2014	NOFEAT	282.4100	282.4147	-0.0047	BELOW
2015	NOFEAT	277.5500	277.5469	0.0031	ABOVE
2016	NOFEAT	277.1100	277.1057	0.0043	ABOVE
2017	NOFEAT	294.1000	294.0985	0.0015	ABOVE
2018	NOFEAT	296.2000	296.2033	-0.0033	BELOW
2019	NOFEAT	303.1700	303.1637	0.0063	ABOVE
2020	NOFEAT	305.3900	305.3881	0.0019	ABOVE
2021	NOFEAT	318.5500	318.5564	-0.0064	BELOW
2022	NOFEAT	320.0500	320.0461	0.0039	ABOVE
2023	NOFEAT	312.8000	312.7990	0.0010	ABOVE
2024	NOFEAT	317.2400	317.2528	-0.0128	BELOW
2025	NOFEAT	299.1600	299.1883	-0.0283	BELOW*
2026	NOFEAT	300.1500	300.1501	-0.0001	BELOW
2027	NOFEAT	272.6400	272.6348	0.0052	ABOVE
2028	NOFEAT	274.1000	274.1031	-0.0031	BELOW

2029	NOFEAT	258.7800	258.7786	0.0014	ABOVE
2030	NOFEAT	259.8300	259.8287	0.0013	ABOVE
2031	NOFEAT	247.6200	247.6202	-0.0002	BELOW
2032	NOFEAT	247.9700	247.9891	-0.0191	BELOW
2033	NOFEAT	246.2400	246.2387	0.0013	ABOVE
2034	NOFEAT	246.5600	246.5588	0.0012	ABOVE
2035	NOFEAT	254.3200	254.2814	0.0386	ABOVE*
2036	NOFEAT	251.7500	251.7594	-0.0094	BELOW
2037	NOFEAT	258.2100	258.2168	-0.0068	BELOW
2038	NOFEAT	255.7500	255.7548	-0.0048	BELOW
2039	NOFEAT	263.1200	263.1137	0.0063	ABOVE
2040	NOFEAT	264.1100	264.1127	-0.0027	BELOW
2041	NOFEAT	262.0100	262.0140	-0.0040	BELOW
2042	NOFEAT	267.1000	267.0983	0.0017	ABOVE
2043	NOFEAT	294.7200	294.7210	-0.0010	BELOW
2044	NOFEAT	299.8900	299.8867	0.0033	ABOVE
2045	NOFEAT	292.7200	292.7073	0.0127	ABOVE
2046	NOFEAT	295.3000	295.2956	0.0044	ABOVE
2047	NOFEAT	278.6400	278.6413	-0.0013	BELOW
2048	NOFEAT	278.4000	278.3945	0.0055	ABOVE
2049	NOFEAT	290.5500	290.5450	0.0050	ABOVE
2050	NOFEAT	290.8300	290.8144	0.0156	ABOVE
2051	NOFEAT	313.9500	313.9499	0.0001	ABOVE
2052	NOFEAT	313.8200	313.8124	0.0076	ABOVE
2053	NOFEAT	312.6000	312.5931	0.0069	ABOVE
2054	NOFEAT	312.8200	312.8146	0.0054	ABOVE
2055	NOFEAT	299.6200	299.6158	0.0042	ABOVE
2056	NOFEAT	299.8200	299.8189	0.0011	ABOVE
2057	NOFEAT	287.3600	287.3475	0.0125	ABOVE
2058	NOFEAT	288.0600	288.0590	0.0010	ABOVE
2059	NOFEAT	252.7400	252.7346	0.0054	ABOVE
2060	NOFEAT	253.2100	253.2072	0.0028	ABOVE
2061	NOFEAT	239.1300	239.1258	0.0042	ABOVE
2062	NOFEAT	239.1700	239.1672	0.0028	ABOVE
2063	NOFEAT	253.1800	253.1797	0.0003	ABOVE
2064	NOFEAT	253.6900	253.6870	0.0030	ABOVE
2065	NOFEAT	251.2500	251.2458	0.0042	ABOVE
2066	NOFEAT	252.3900	252.3837	0.0063	ABOVE
2067	NOFEAT	210.9200	210.9133	0.0067	ABOVE
2068	NOFEAT	213.5500	213.5466	0.0034	ABOVE
2069	NOFEAT	212.8200	212.8227	-0.0027	BELOW
2070	NOFEAT	212.6300	212.6421	-0.0121	BELOW
2071	NOFEAT	216.5600	216.5604	-0.0004	BELOW
2072	NOFEAT	214.3000	214.3008	-0.0008	BELOW
2073	NOFEAT	240.5400	240.5425	-0.0025	BELOW
2074	NOFEAT	228.0400	228.0311	0.0089	ABOVE
2075	NOFEAT	271.5800	271.5767	0.0033	ABOVE
2076	NOFEAT	266.9200	266.9078	0.0122	ABOVE
2077	NOFEAT	269.7700	269.7667	0.0033	ABOVE
2078	NOFEAT	271.3200	271.3202	-0.0002	BELOW

2079	NOFEAT	241.9000	241.8998	0.0002	ABOVE
2080	NOFEAT	252.3000	252.3007	-0.0007	BELOW
2081	NOFEAT	228.0000	227.9997	0.0003	ABOVE
2082	NOFEAT	225.4000	225.3973	0.0027	ABOVE
2083	NOFEAT	212.7600	212.7517	0.0083	ABOVE
2084	NOFEAT	217.0800	217.0746	0.0054	ABOVE
2085	NOFEAT	210.8800	210.8807	-0.0007	BELOW
2086	NOFEAT	210.0100	210.0080	0.0020	ABOVE
2088	NOFEAT	207.8900	207.8906	-0.0006	BELOW
2089	NOFEAT	197.9200	197.9229	-0.0029	BELOW
2090	NOFEAT	190.1100	190.1143	-0.0043	BELOW
2091	NOFEAT	183.4800	183.4790	0.0010	ABOVE
2092	NOFEAT	184.0200	184.0115	0.0085	ABOVE
2093	NOFEAT	184.0200	184.0079	0.0121	ABOVE
2094	NOFEAT	184.8600	184.8542	0.0058	ABOVE
2095	NOFEAT	185.3200	185.3158	0.0042	ABOVE
2096	NOFEAT	189.4800	189.4775	0.0025	ABOVE
2097	NOFEAT	188.6600	188.6624	-0.0024	BELOW
2098	NOFEAT	199.2000	199.1992	0.0008	ABOVE
2099	NOFEAT	198.3300	198.3338	-0.0038	BELOW
2100	NOFEAT	212.8800	212.8782	0.0018	ABOVE
2101	NOFEAT	207.0400	207.0448	-0.0048	BELOW
2102	NOFEAT	211.9200	211.9165	0.0035	ABOVE
2103	NOFEAT	201.4600	201.4580	0.0020	ABOVE
2104	NOFEAT	186.5200	186.5224	-0.0024	BELOW
2105	NOFEAT	190.4700	190.4383	0.0317	ABOVE*
2106	NOFEAT	184.9300	184.9314	-0.0014	BELOW
2107	NOFEAT	184.1500	184.1516	-0.0016	BELOW
2108	NOFEAT	187.2300	187.2317	-0.0017	BELOW
2109	NOFEAT	185.3300	185.3294	0.0006	ABOVE
2110	NOFEAT	187.3000	187.2975	0.0025	ABOVE
2111	NOFEAT	209.4600	209.4510	0.0090	ABOVE
2112	NOFEAT	186.8200	186.8260	-0.0060	BELOW
2113	NOFEAT	192.9500	192.9465	0.0035	ABOVE
2114	NOFEAT	184.8900	184.8884	0.0016	ABOVE
2115	NOFEAT	185.4800	185.4773	0.0027	ABOVE
2116	NOFEAT	198.3700	198.3561	0.0139	ABOVE
2117	NOFEAT	198.1100	198.1072	0.0028	ABOVE
2118	NOFEAT	202.7500	202.7353	0.0147	ABOVE
2119	NOFEAT	202.9700	202.9703	-0.0003	BELOW
2120	NOFEAT	197.7900	197.7899	0.0001	ABOVE
2121	NOFEAT	198.2300	198.2327	-0.0027	BELOW
2122	NOFEAT	214.8400	214.8401	-0.0001	BELOW
2123	NOFEAT	215.7900	215.7934	-0.0034	BELOW
2124	NOFEAT	255.3000	255.2972	0.0028	ABOVE
2125	NOFEAT	255.5100	255.5011	0.0089	ABOVE
2126	NOFEAT	274.2100	274.2114	-0.0014	BELOW
2127	NOFEAT	276.8300	276.8305	-0.0005	BELOW
2128	NOFEAT	300.7900	300.7931	-0.0031	BELOW
2129	NOFEAT	311.9900	311.9893	0.0007	ABOVE

2130	NOFEAT	322.3800	322.3732	0.0068	ABOVE
2131	NOFEAT	329.8700	329.8635	0.0065	ABOVE
2132	NOFEAT	309.2000	309.1975	0.0025	ABOVE
2133	NOFEAT	325.6600	325.6610	-0.0010	BELOW
2134	NOFEAT	297.2000	297.1995	0.0005	ABOVE
2135	NOFEAT	310.5900	310.5895	0.0005	ABOVE
2136	NOFEAT	293.6600	293.6545	0.0055	ABOVE
2137	NOFEAT	294.0200	294.0192	0.0008	ABOVE
2138	NOFEAT	287.2800	287.2798	0.0002	ABOVE
2139	NOFEAT	291.6200	291.6207	-0.0007	BELOW
2140	NOFEAT	285.8300	285.8289	0.0011	ABOVE
2141	NOFEAT	286.6500	286.6498	0.0002	ABOVE
2142	NOFEAT	285.1700	285.1706	-0.0006	BELOW
2223	NOFEAT	302.8600	302.8632	-0.0032	BELOW
2224	NOFEAT	313.2100	313.2103	-0.0003	BELOW
2225	NOFEAT	304.7800	304.7807	-0.0007	BELOW
2226	NOFEAT	296.5400	296.5402	-0.0002	BELOW
2227	NOFEAT	295.7700	295.7654	0.0046	ABOVE
2228	NOFEAT	297.0600	297.0567	0.0033	ABOVE
2229	NOFEAT	310.5800	310.5811	-0.0011	BELOW
2230	NOFEAT	322.7500	322.7487	0.0013	ABOVE
2231	NOFEAT	309.7500	309.7503	-0.0003	BELOW
2232	NOFEAT	305.7300	305.7403	-0.0103	BELOW
2233	NOFEAT	324.7900	324.7878	0.0022	ABOVE
2234	NOFEAT	310.1400	310.1414	-0.0014	BELOW
2235	NOFEAT	316.8400	316.8377	0.0023	ABOVE
2236	NOFEAT	318.9200	318.9182	0.0018	ABOVE
2237	NOFEAT	251.0300	251.0306	-0.0006	BELOW
2238	NOFEAT	249.6200	249.6280	-0.0080	BELOW
2239	NOFEAT	259.8000	259.7960	0.0040	ABOVE
2240	NOFEAT	262.6000	262.6022	-0.0022	BELOW
2241	NOFEAT	269.4100	269.4085	0.0015	ABOVE
2242	NOFEAT	307.6400	307.6335	0.0065	ABOVE
2243	NOFEAT	294.1100	294.1078	0.0022	ABOVE
2244	NOFEAT	247.4600	247.4245	0.0355	ABOVE*
2246	NOFEAT	220.5800	220.5813	-0.0013	BELOW
2247	NOFEAT	219.3000	219.3050	-0.0050	BELOW
2248	NOFEAT	252.6900	252.6861	0.0039	ABOVE
2249	NOFEAT	226.2600	226.2587	0.0013	ABOVE
2250	NOFEAT	229.1100	229.1143	-0.0043	BELOW
2251	NOFEAT	269.2300	269.2492	-0.0192	BELOW
2252	NOFEAT	268.4100	268.4120	-0.0020	BELOW
2253	NOFEAT	280.7200	280.7217	-0.0017	BELOW
2254	NOFEAT	283.9400	283.9356	0.0044	ABOVE
2255	NOFEAT	274.8600	274.8621	-0.0021	BELOW
2256	NOFEAT	243.3400	243.3477	-0.0077	BELOW
2257	NOFEAT	260.4400	260.4419	-0.0019	BELOW
2258	NOFEAT	249.2400	249.2353	0.0047	ABOVE
2259	NOFEAT	281.2200	281.2192	0.0008	ABOVE
2260	NOFEAT	276.2900	276.2533	0.0367	ABOVE*



2261	NOFEAT	277.2200	277.2225	-0.0025	BELOW
2262	NOFEAT	225.7700	225.7712	-0.0012	BELOW
2263	NOFEAT	219.6000	219.5994	0.0006	ABOVE
2264	NOFEAT	212.4600	212.4621	-0.0021	BELOW
2265	NOFEAT	210.0600	210.0586	0.0014	ABOVE
2266	NOFEAT	204.7000	204.6994	0.0006	ABOVE
2267	NOFEAT	210.9600	210.9627	-0.0027	BELOW
2268	NOFEAT	211.5600	211.5583	0.0017	ABOVE
2269	NOFEAT	204.9600	204.9629	-0.0029	BELOW
2270	NOFEAT	211.1600	211.1615	-0.0015	BELOW
2271	NOFEAT	213.8900	213.8931	-0.0031	BELOW
2272	NOFEAT	233.5800	233.5776	0.0024	ABOVE
2273	NOFEAT	211.6600	211.6630	-0.0030	BELOW
2274	NOFEAT	229.3200	229.3219	-0.0019	BELOW
2275	NOFEAT	184.8100	184.8083	0.0017	ABOVE
2276	NOFEAT	194.7000	194.7003	-0.0003	BELOW
2277	NOFEAT	245.3000	245.2983	0.0017	ABOVE
2278	NOFEAT	218.2000	218.2037	-0.0037	BELOW
2279	NOFEAT	213.2800	213.2805	-0.0005	BELOW
2280	NOFEAT	226.9400	226.9592	-0.0192	BELOW
2281	NOFEAT	235.8300	235.8276	0.0024	ABOVE
2282	NOFEAT	218.5600	218.5574	0.0026	ABOVE
2283	NOFEAT	210.8100	210.8112	-0.0012	BELOW
2284	NOFEAT	214.5500	214.5512	-0.0012	BELOW
2299	NOFEAT	197.7900	197.7859	0.0041	ABOVE
2300	NOFEAT	201.6100	201.6103	-0.0003	BELOW
2311	NOFEAT	226.9600	226.9588	0.0012	ABOVE
2312	NOFEAT	329.5700	329.5699	0.0001	ABOVE
2313	NOFEAT	307.1700	307.1684	0.0016	ABOVE
2314	NOFEAT	291.5900	291.5940	-0.0040	BELOW
2315	NOFEAT	296.3200	296.3155	0.0045	ABOVE
2316	NOFEAT	290.5900	290.5897	0.0003	ABOVE
2317	NOFEAT	287.3600	287.3627	-0.0027	BELOW
2318	NOFEAT	303.1100	303.1315	-0.0215	BELOW
2319	NOFEAT	323.6300	323.6240	0.0060	ABOVE
2320	NOFEAT	320.5300	320.5354	-0.0054	BELOW
2321	NOFEAT	211.8300	211.8313	-0.0013	BELOW
2322	NOFEAT	228.1000	228.1009	-0.0009	BELOW

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The Sum of (Elev Diff)Squared = 0.0238

The Ave of (Elev Diff)Squared = 0.0001

The Root Mean Square Error is = 0.0080

National Standard for Spatial Data Accuracy(NSSDA) is = 0.0156

Points PASS the 95% confidence test based on 1.96 Chi Square Value.

User defined Tolerance = 0.0500

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2.4% of points are between Half Tolerance and Tolerance \*

0.0% of the points are greater than Tolerance \*\*\*

-0.0283 is the maximum difference BELOW

0.0442 is the maximum difference ABOVE

375 Total number of points

121 Points are below the TIN Surface

252 Points are above the TIN Surface

2 Points are equal to the TIN Surface