

Project Information	
Name	AA450_vs_AU10
Created Time	2025-09-17 08:35:21
Operator	art
Coordinate System	New Mexico (Central)

Result	
Solution converged in 1 iterations	
Failed the Chi-Square test at the 95.00 significance level	
28.121 ≤ 0.000 ≤ 65.841	
Observed Points: 27	Unknown Points: 9
Degrees of Freedom: 18	Examined Vectors: 72
Control Points: 3	
Calculated RPA = Better than 50 PPM by -0.016 USft (Tolerance: 0.066 USft + 50 PPM)	
Connections all pass.	
All confidence regions were computed using the following factors:	
1-D Expansion Factor : 1.96	
2-D Expansion Factor : 2.45	
Expansion factors for 95.00 confidence regions taken from normal distribution table	

Points Used			
Point Name	Time Delta [hh:mm]	Redundancies	Bases
4	143:58	3	3
5	144:01	3	3
6	143:57	3	3
8	143:49	3	3
7	143:53	3	3
9	143:44	3	3

Control Points						
Point Name	North (N) [USft]	East (E) [USft]	Elevation [USft]	σ N [USft]	σ E [USft]	σ Z [USft]
B_4021225	1494072.249	1628180.653	7090.362	0.020	0.020	0.039
B_4021225_1	1494072.248	1628180.654	7090.363	0.020	0.020	0.039
B_4021225_2	1494072.248	1628180.654	7090.363	0.020	0.020	0.039

Adjusted Coordinates									
Point Name	North (N) [USft]	East (E) [USft]	Elevation [USft]	Delta N [USft]	Delta E [USft]	Delta Z [USft]	σ N [USft]	σ E [USft]	σ Z [USft]
B_4021225	1494072.249	1628180.653	7090.362	0.000	0.000	0.000	0.000	0.000	0.000
B_4021225_1	1494072.248	1628180.654	7090.363	0.000	0.000	0.000	0.000	0.000	0.000
B_4021225_2	1494072.248	1628180.654	7090.363	0.000	0.000	0.000	0.000	0.000	0.000
4	1494018.382	1628043.966	7090.532	0.000	0.000	0.000	0.000	0.000	0.000
5	1493989.263	1628206.487	7085.953	0.000	0.000	0.000	0.000	0.000	0.000
6	1493975.060	1628290.156	7083.210	0.000	0.000	0.000	0.000	0.000	0.000
8	1493976.618	1628160.090	7086.502	0.000	0.000	0.000	0.000	0.000	0.000
7	1493959.266	1628262.774	7082.840	0.000	0.000	0.000	0.000	0.000	0.000
9	1494009.940	1627971.882	7090.587	0.000	0.000	0.000	0.000	0.000	0.000

Connections							
From	To	Pass	Adjusted Distance [USft]	Calculated Error	Actual Semi-major	Allow Semi-major	Ratio
6	9	✓	320.180	Better than 50 PPM by -0.016 USft	0.000	0.082	0.000
7	9	✓	295.273	Better than 50 PPM by -0.015 USft	0.000	0.081	0.000
4	6	✓	249.973	Better than 50 PPM by -0.012 USft	0.000	0.078	0.000
5	9	✓	235.515	Better than 50 PPM by -0.012 USft	0.000	0.078	0.000
4	7	✓	226.653	Better than 50 PPM by -0.011 USft	0.000	0.077	0.000
8	9	✓	191.135	Better than 50 PPM by -0.010 USft	0.000	0.076	0.000

4	5	✓	165.109	Better than 50 PPM by -0.008 USft	0.000	0.074	0.000
6	8	✓	130.076	Better than 50 PPM by -0.007 USft	0.000	0.073	0.000
4	8	✓	123.406	Better than 50 PPM by -0.006 USft	0.000	0.072	0.000
8	7	✓	104.140	Better than 50 PPM by -0.005 USft	0.000	0.071	0.000
5	6	✓	84.866	Better than 50 PPM by -0.004 USft	0.000	0.070	0.000
4	9	✓	72.577	Better than 50 PPM by -0.004 USft	0.000	0.070	0.000
5	7	✓	63.781	Better than 50 PPM by -0.003 USft	0.000	0.069	0.000
5	8	✓	48.089	Better than 50 PPM by -0.002 USft	0.000	0.068	0.000
6	7	✓	31.611	Better than 50 PPM by -0.002 USft	0.000	0.068	0.000