

Town of Plymouth Data Sheet

Station:	Point 174	John Alden 1		NGS PID#		ID#																																																					
Town:	Plymouth		Quad: Man																																																								
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																						
(Survey Ft)	2803528.404	909631.605	(Survey Ft)	342858.853	853329.889																																																						
(meters)	854517.167	277256.268	(meters)	104503.587	260095.471																																																						
						Order																																																					
Elevation	Vert. Datum f/m	Order	Stamping:																																																								
NAVD88	69.481/21.178		Sketch																																																								
NAVD29	70.318/21.433		Recov. Date:	Oct 18, 2010																																																							
Marked by:	Drill Hole in Stone																																																										
Description:																																																											
Reference Marks:																																																											
Azimuth Data:																																																											
Geodetic:	<p>FILE: 50372910.10o 000101263 2005 NOTE: The IGS precise and IGS rapid orbits were not available 2005 at processing time. The IGS ultra-rapid orbit was/will be used to 2005 process the data. 2005</p> <p style="text-align: center;">NGS OPUS SOLUTION REPORT =====</p> <p>All computed coordinate accuracies are listed as peak-to-peak values. For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy</p> <p>USER: rfirth@townhall.plymouth.ma.us DATE: October 19, 2010 RINEX FILE: 5037291m.10o TIME: 13:16:35 UTC SOFTWARE: page5 1009.28 master50.pl 100910 START: 2010/10/18 12:31:00 EPHEMERIS: igu16061.eph [ultra-rapid] STOP: 2010/10/18 19:50:00 NAV FILE: brdc2910.10n OBS USED: 16171 / 16561 : 98% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 59 / 61 : 97% ARP HEIGHT: 1.374648 OVERALL RMS: 0.012(m) REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.7964)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 25%;">1580787.715(m)</td> <td style="width: 15%;">0.025(m)</td> <td style="width: 15%;">1580786.944(m)</td> <td style="width: 15%;">0.025(m)</td> </tr> <tr> <td>Y:</td> <td>-4480999.926(m)</td> <td>0.044(m)</td> <td>-4480998.487(m)</td> <td>0.044(m)</td> </tr> <tr> <td>Z:</td> <td>4240413.797(m)</td> <td>0.016(m)</td> <td>4240413.732(m)</td> <td>0.016(m)</td> </tr> <tr> <td>LAT:</td> <td>41 56 13.95753</td> <td>0.015(m)</td> <td>41 56 13.99091</td> <td>0.015(m)</td> </tr> <tr> <td>E LON:</td> <td>289 25 53.76562</td> <td>0.032(m)</td> <td>289 25 53.75484</td> <td>0.032(m)</td> </tr> <tr> <td>W LON:</td> <td>70 34 6.23438</td> <td>0.032(m)</td> <td>70 34 6.24516</td> <td>0.032(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-6.940(m)</td> <td>0.040(m)</td> <td>-8.183(m)</td> <td>0.040(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>21.178(m)</td> <td>0.068(m)</td> <td>[NAVD88 (Computed using GEOID09)]</td> <td></td> </tr> </table> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 35%; text-align: center;">UTM (Zone 19)</td> <td style="width: 35%; text-align: center;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td style="text-align: center;">4643994.281</td> <td style="text-align: center;">854517.167</td> </tr> <tr> <td>Easting (X) [meters]</td> <td style="text-align: center;">369979.593</td> <td style="text-align: center;">277256.268</td> </tr> <tr> <td>Convergence [degrees]</td> <td style="text-align: center;">-1.04833197</td> <td style="text-align: center;">0.62578348</td> </tr> </table>							X:	1580787.715(m)	0.025(m)	1580786.944(m)	0.025(m)	Y:	-4480999.926(m)	0.044(m)	-4480998.487(m)	0.044(m)	Z:	4240413.797(m)	0.016(m)	4240413.732(m)	0.016(m)	LAT:	41 56 13.95753	0.015(m)	41 56 13.99091	0.015(m)	E LON:	289 25 53.76562	0.032(m)	289 25 53.75484	0.032(m)	W LON:	70 34 6.23438	0.032(m)	70 34 6.24516	0.032(m)	EL HGT:	-6.940(m)	0.040(m)	-8.183(m)	0.040(m)	ORTHO HGT:	21.178(m)	0.068(m)	[NAVD88 (Computed using GEOID09)]			UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4643994.281	854517.167	Easting (X) [meters]	369979.593	277256.268	Convergence [degrees]	-1.04833197	0.62578348
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To convert meters to US survey feet
Multiply by 3.280833333

	Point Scale	0.99980802	0.99997506
	Combined Factor	0.99980911	0.99997615
	US NATIONAL GRID DESIGNATOR: 19TCG6997943994(NAD 83)		
	BASE STATIONS USED		
	PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
	DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 94087.8
	DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 82717.6
	DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 58234.7
	NEAREST NGS PUBLISHED CONTROL POINT		
	LW1536	K 43	N415549. W0703443. 1144.9
	This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.		
Grid Azimuth:			



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