

Town of Plymouth Data Sheet

Station:	Point 176	FORGES FIELD		NGS PID#		ID#																																													
Town:	Plymouth		Quad: Plym																																																
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																														
(Survey Ft)	2778235.108	909441.284	(Survey Ft)	317565.700	853139.192																																														
(meters)	846807.755	277198.258	(meters)	96794.219	260037.346																																														
						Order																																													
Elevation	Vert. Datum f/m	Order	Stamping:																																																
NAVD88	59.380/18.099		Sketch																																																
NAVD29	60.216/19.354		Recov. Date:	Nov. 1, 2010																																															
Marked by:	Spike																																																		
Description:	Spike																																																		
Reference Marks:																																																			
Azimuth Data:																																																			
Geodetic:	<p>FILE: 50373050.10o 000109789 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: November 01, 2010 RINEX FILE: 5037305m.10o TIME: 17:21:26 UTC SOFTWARE: page5 1009.28 master23.pl 100910 START: 2010/11/01 12:47:00 EPHEMERIS: igu16081.eph [ultra-rapid] STOP: 2010/11/01 16:16:00 NAV FILE: brdc3050.10n OBS USED: 7846 / 7983 : 98% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 40 / 42 : 95% ARP HEIGHT: 1.490472 OVERALL RMS: 0.011(m)</p> <p>REF FRAME: NAD_83 (CORS96) (EPOCH:2002.0000) ITRF00 (EPOCH:2010.8345)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 35%;">1582365.531(m)</td> <td style="width: 15%;">0.031(m)</td> <td style="width: 15%;">1582364.759(m)</td> <td style="width: 20%;">0.031(m)</td> </tr> <tr> <td>Y:</td> <td>-4485899.966(m)</td> <td>0.019(m)</td> <td>-4485898.526(m)</td> <td>0.019(m)</td> </tr> <tr> <td>Z:</td> <td>4234674.376(m)</td> <td>0.005(m)</td> <td>4234674.310(m)</td> <td>0.005(m)</td> </tr> <tr> <td>LAT:</td> <td>41 52 4.11317</td> <td>0.017(m)</td> <td>41 52 4.14651</td> <td>0.017(m)</td> </tr> <tr> <td>E LON:</td> <td>289 25 47.59914</td> <td>0.023(m)</td> <td>289 25 47.58834</td> <td>0.023(m)</td> </tr> <tr> <td>W LON:</td> <td>70 34 12.40086</td> <td>0.023(m)</td> <td>70 34 12.41166</td> <td>0.023(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-10.140(m)</td> <td>0.024(m)</td> <td>-11.386(m)</td> <td>0.024(m)</td> </tr> </table> <p>ORTHO HGT: 18.099(m) 0.042(m) [NAVD88 (Computed using GEOID09)]</p> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;"></td> <td style="width: 30%; text-align: center;">UTM (Zone 19)</td> <td style="width: 30%; text-align: center;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td style="text-align: center;">4636291.158</td> <td style="text-align: center;">846807.755</td> </tr> <tr> <td>Easting (X) [meters]</td> <td style="text-align: center;">369696.523</td> <td style="text-align: center;">277198.258</td> </tr> </table>							X:	1582365.531(m)	0.031(m)	1582364.759(m)	0.031(m)	Y:	-4485899.966(m)	0.019(m)	-4485898.526(m)	0.019(m)	Z:	4234674.376(m)	0.005(m)	4234674.310(m)	0.005(m)	LAT:	41 52 4.11317	0.017(m)	41 52 4.14651	0.017(m)	E LON:	289 25 47.59914	0.023(m)	289 25 47.58834	0.023(m)	W LON:	70 34 12.40086	0.023(m)	70 34 12.41166	0.023(m)	EL HGT:	-10.140(m)	0.024(m)	-11.386(m)	0.024(m)		UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4636291.158	846807.755	Easting (X) [meters]	369696.523	277198.258
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.04806184	0.62463287
Point Scale	0.99980893	0.99998133
Combined Factor	0.99981052	0.99998292
US NATIONAL GRID DESIGNATOR: 19TCG6969636291(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DH5837	CTPU PUTNAM CORS ARP	N415358.888 W0715320.889 109536.1
DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 86649.6
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 60457.1
NEAREST NGS PUBLISHED CONTROL POINT		
LW5798	10349	N415133.647 W0703506.954 1570.3
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:		



To convert meters to US survey feet
Multiply by 3.280833333

