

Town of Plymouth Data Sheet

Station:	Point 183	Billington Sea		NGS PID#		ID#																																																		
Town:	Plymouth		Quad: Plym																																																					
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																			
(Survey Ft)	2803615.861	880522.131	(Survey Ft)	342946.740	824220.515																																																			
(meters)	854543.824	268383.682	(meters)	104530.375	251222.916																																																			
						Order																																																		
Elevation	Vert. Datum f/m	Order	Stamping:																																																					
NAVD88	83.635/25.492		Sketch																																																					
NAVD29	84.455/25.742		Recov. Date:	4/6/2011																																																				
Marked by:	Iron Rod																																																							
Description:	3' Iron Rod set.																																																							
Reference Marks:																																																								
Azimuth Data:																																																								
Geodetic:	<p>FILE: 50370960.11o 000196848 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: April 07, 2011 RINEX FILE: 5037096p.11o TIME: 14:08:57 UTC SOFTWARE: page5 1009.28 master.pl 1215103 START: 2011/04/06 15:13:00 EPHEMERIS: igu16303.eph [ultra-rapid] STOP: 2011/04/06 19:59:30 NAV FILE: brdc0960.11n OBS USED: 8688 / 8836 : 98% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 40 / 42 : 95% ARP HEIGHT: 1.46304 OVERALL RMS: 0.010(m)</p> <p>REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2623)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 15%;">1572393.122(m)</td> <td style="width: 15%;">0.033(m)</td> <td style="width: 15%;">1572392.344(m)</td> <td style="width: 15%;">0.033(m)</td> </tr> <tr> <td>Y:</td> <td>-4483872.191(m)</td> <td>0.030(m)</td> <td>-4483870.753(m)</td> <td>0.030(m)</td> </tr> <tr> <td>Z:</td> <td>4240504.339(m)</td> <td>0.004(m)</td> <td>4240504.275(m)</td> <td>0.004(m)</td> </tr> <tr> <td>LAT:</td> <td>41 56 17.78204</td> <td>0.021(m)</td> <td>41 56 17.81547</td> <td>0.021(m)</td> </tr> <tr> <td>E LON:</td> <td>289 19 28.63528</td> <td>0.038(m)</td> <td>289 19 28.62407</td> <td>0.038(m)</td> </tr> <tr> <td>W LON:</td> <td>70 40 31.36472</td> <td>0.038(m)</td> <td>70 40 31.37593</td> <td>0.038(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-2.801(m)</td> <td>0.018(m)</td> <td>-4.045(m)</td> <td>0.018(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>25.492(m)</td> <td>0.033(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: none;"> <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;">4644280.069</td> <td style="text-align: center;">854543.824</td> </tr> <tr> <td>Easting (X) [meters]</td> <td style="text-align: center;">361112.925</td> <td style="text-align: center;">268383.683</td> </tr> </table>							X:	1572393.122(m)	0.033(m)	1572392.344(m)	0.033(m)	Y:	-4483872.191(m)	0.030(m)	-4483870.753(m)	0.030(m)	Z:	4240504.339(m)	0.004(m)	4240504.275(m)	0.004(m)	LAT:	41 56 17.78204	0.021(m)	41 56 17.81547	0.021(m)	E LON:	289 19 28.63528	0.038(m)	289 19 28.62407	0.038(m)	W LON:	70 40 31.36472	0.038(m)	70 40 31.37593	0.038(m)	EL HGT:	-2.801(m)	0.018(m)	-4.045(m)	0.018(m)	ORTHO HGT:	25.492(m)	0.033(m)	[NAVD88 (Computed using GEOID09)]			UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4644280.069	854543.824	Easting (X) [meters]	361112.925	268383.683
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.11988401	0.55392151
Point Scale	0.99983736	0.99997498
Combined Factor	0.99983780	0.99997542
US NATIONAL GRID DESIGNATOR: 19TCG6111244280(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 86729.2
AF9520	WES2 WESTFORD CORS ARP	N423647.975 W0712935.968 100871.5
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 49646.6
NEAREST NGS PUBLISHED CONTROL POINT		
LW5766	10329	N415632.196 W0704020.849 507.1
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