

Town of Plymouth Data Sheet

Station:	Point 192	GURNET 2		NGS PID#		ID#																																																		
Town:	Plymouth		Quad: Duxb																																																					
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																			
(Survey Ft)	2827677.412	900503.039	(Survey Ft)	367007.842	844201.717																																																			
(meters)	861877.799	274473.875	(meters)	111864.214	257313.198																																																			
						Order																																																		
Elevation	Vert. Datum f/m	Order	Stamping:																																																					
NAVD88	48.763/14.863		Sketch																																																					
NAVD29	49.600/15.118		Recov. Date:	August 23, 2011																																																				
Marked by:	Stone Bound																																																							
Description:																																																								
Reference Marks:																																																								
Azimuth Data:																																																								
Geodetic:	<p>FILE: 50372350.11o 000305385 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>WARNING, BETA PRODUCT: The results should be used with caution. 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: August 23, 2011 RINEX FILE: 5037235n.11o TIME: 22:33:23 UTC SOFTWARE: page5 1108.09 master.pl 0607113 START: 2011/08/23 13:19:00 EPHEMERIS: igul6502.eph [ultra-rapid] STOP: 2011/08/23 20:13:00 NAV FILE: brdc2350.11n OBS USED: 14016 / 14183 : 99% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 42 / 52 : 81% ARP HEIGHT: 1.64592 OVERALL RMS: 0.012(m)</p> <p>REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.6430)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">X:</td> <td style="width: 25%;">1576593.721(m)</td> <td style="width: 25%;">0.010(m)</td> <td style="width: 25%;">1576592.936(m)</td> <td style="width: 25%;">0.010(m)</td> </tr> <tr> <td>Y:</td> <td>-4477232.983(m)</td> <td>0.049(m)</td> <td>-4477231.546(m)</td> <td>0.049(m)</td> </tr> <tr> <td>Z:</td> <td>4245904.188(m)</td> <td>0.036(m)</td> <td>4245904.126(m)</td> <td>0.036(m)</td> </tr> <tr> <td>LAT:</td> <td>42 0 13.48498</td> <td>0.004(m)</td> <td>42 0 13.51854</td> <td>0.004(m)</td> </tr> <tr> <td>E LON:</td> <td>289 23 56.35613</td> <td>0.026(m)</td> <td>289 23 56.34469</td> <td>0.026(m)</td> </tr> <tr> <td>W LON:</td> <td>70 36 3.64387</td> <td>0.026(m)</td> <td>70 36 3.65531</td> <td>0.026(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-13.200(m)</td> <td>0.056(m)</td> <td>-14.442(m)</td> <td>0.056(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>14.863(m)</td> <td>0.095(m)</td> <td colspan="2">[NAVD88 (Computed using GEOID09)]</td> </tr> </table> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="width: 25%;">UTM (Zone 19)</td> <td style="width: 25%;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td>4651431.893</td> <td>861877.799</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>367413.921</td> <td>274473.875</td> </tr> </table>							X:	1576593.721(m)	0.010(m)	1576592.936(m)	0.010(m)	Y:	-4477232.983(m)	0.049(m)	-4477231.546(m)	0.049(m)	Z:	4245904.188(m)	0.036(m)	4245904.126(m)	0.036(m)	LAT:	42 0 13.48498	0.004(m)	42 0 13.51854	0.004(m)	E LON:	289 23 56.35613	0.026(m)	289 23 56.34469	0.026(m)	W LON:	70 36 3.64387	0.026(m)	70 36 3.65531	0.026(m)	EL HGT:	-13.200(m)	0.056(m)	-14.442(m)	0.056(m)	ORTHO HGT:	14.863(m)	0.095(m)	[NAVD88 (Computed using GEOID09)]			UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4651431.893	861877.799	Easting (X) [meters]	367413.921	274473.875
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.07151975	0.60387589
Point Scale	0.99981631	0.99997043
Combined Factor	0.99981838	0.99997250
US NATIONAL GRID DESIGNATOR: 19TCG6741351431(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DI0876	ACU5 ACUSHNET 5 CORS ARP	N414436.796 W0705313.027 37398.3
DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 95973.2
DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 76900.9
NEAREST NGS PUBLISHED CONTROL POINT		
MY3949	PLYMOUTH GURNET LIGHTHOUSE	N420012.120 W0703602.207 53.6
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