

## Town of Plymouth Data Sheet

<b>Station:</b>	Point 186	Carter's Bridge		NGS PID#		ID#																																																		
<b>Town:</b>	Plymouth		Quad:Sag																																																					
<b>NAD83</b>	<b>Northerly</b>	<b>Easterly</b>	<b>NAD 27</b>	<b>Northerly</b>	<b>Easterly</b>																																																			
(Survey Ft)	2758245.573	910158.187	(Survey Ft)	297576.265	853855.794																																																			
(meters)	840714.932	277416.770	(meters)	90701.427	260255.766																																																			
						<b>Order</b>																																																		
<b>Elevation</b>	<b>Vert. Datum f/m</b>	<b>Order</b>	<b>Stamping:</b>																																																					
NAVD88	38.629/11.774		Sketch																																																					
NAVD29	39.472/12.031		<b>Recov. Date:</b>	June 8, 2011																																																				
<b>Marked by:</b>	Drill Hole																																																							
<b>Description:</b>	Drill Hole Set High point boulder																																																							
<b>Reference Marks:</b>																																																								
<b>Azimuth Data:</b>																																																								
<b>Geodetic:</b>	<p>FILE: 50371590.11o 000248254  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: <a href="http://www.ngs.noaa.gov/OPUS/about.html#accuracy">http://www.ngs.noaa.gov/OPUS/about.html#accuracy</a></p> <p>USER: rfirth@townhall.plymouth.ma.us      DATE: June 09, 2011  RINEX FILE: 5037159n.11o      TIME: 13:20:29 UTC  SOFTWARE: page5 1009.28 master50.pl 060711      START: 2011/06/08 13:31:00  EPHEMERIS: igu16393.eph [ultra-rapid]      STOP: 2011/06/08 18:56:00  NAV FILE: brdc1590.11n      OBS USED: 10348 / 10662 : 97%  ANT NAME: TRM33429.00+GP NONE      # FIXED AMB: 45 / 46 : 98%  ARP HEIGHT: 0.8382      OVERALL RMS: 0.014(m)</p> <p>REF FRAME: NAD_83 (CORS96) (EPOCH:2002.0000)      ITRF00 (EPOCH:2011.4347)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">X:</td> <td style="width: 25%;">1583859.819(m)</td> <td style="width: 25%;">0.030(m)</td> <td style="width: 25%;">1583859.038(m)</td> <td style="width: 25%;">0.030(m)</td> </tr> <tr> <td>Y:</td> <td>-4489679.002(m)</td> <td>0.043(m)</td> <td>-4489677.562(m)</td> <td>0.043(m)</td> </tr> <tr> <td>Z:</td> <td>4230129.348(m)</td> <td>0.018(m)</td> <td>4230129.283(m)</td> <td>0.018(m)</td> </tr> <tr> <td>LAT:</td> <td>41 48 46.56434</td> <td>0.009(m)</td> <td>41 48 46.59773</td> <td>0.009(m)</td> </tr> <tr> <td>E LON:</td> <td>289 25 54.18797</td> <td>0.042(m)</td> <td>289 25 54.17682</td> <td>0.042(m)</td> </tr> <tr> <td>W LON:</td> <td>70 34 5.81203</td> <td>0.042(m)</td> <td>70 34 5.82318</td> <td>0.042(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-16.540(m)</td> <td>0.034(m)</td> <td>-17.789(m)</td> <td>0.034(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>11.774(m)</td> <td>0.059(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></td> <td style="text-align: center;">UTM (Zone 19)</td> <td style="text-align: center;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td style="text-align: center;">4630195.623</td> <td style="text-align: center;">840714.932</td> </tr> <tr> <td>Easting (X) [meters]</td> <td style="text-align: center;">369737.146</td> <td style="text-align: center;">277416.770</td> </tr> </table>							X:	1583859.819(m)	0.030(m)	1583859.038(m)	0.030(m)	Y:	-4489679.002(m)	0.043(m)	-4489677.562(m)	0.043(m)	Z:	4230129.348(m)	0.018(m)	4230129.283(m)	0.018(m)	LAT:	41 48 46.56434	0.009(m)	41 48 46.59773	0.009(m)	E LON:	289 25 54.18797	0.042(m)	289 25 54.17682	0.042(m)	W LON:	70 34 5.81203	0.042(m)	70 34 5.82318	0.042(m)	EL HGT:	-16.540(m)	0.034(m)	-17.789(m)	0.034(m)	ORTHO HGT:	11.774(m)	0.059(m)	[NAVD88 (Computed using GEOID09)]			UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4630195.623	840714.932	Easting (X) [meters]	369737.146	277416.770
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To convert meters to US survey feet  
Multiply by 3.2808333333

Convergence [degrees]	-1.04572089	0.62586229
Point Scale	0.99980880	0.99998731
Combined Factor	0.99981140	0.99998991
US NATIONAL GRID DESIGNATOR: 19TCG6973730195(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DI0884	ACU6 ACUSHNET 6 CORS ARP	N414435.676 W0705311.720 27572.3
DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 87649.5
DH5837	CTPU PUTNAM CORS ARP	N415358.888 W0715320.889 110100.1
NEAREST NGS PUBLISHED CONTROL POINT		
LW5806	10306	N414849.094 W0703314.566 1183.6
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.		
<b>Grid Azimuth:</b>		



meters to US survey feet  
by 3.280833333