

## Town of Plymouth Data Sheet

<b>Station:</b>	Point 170	Debbie Court 2		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>																																														
<b>(Survey Ft)</b>	2752078.353	901465.450	<b>(Survey Ft)</b>	291409.264	845162.999																																														
<b>(meters)</b>	838835.160	274767.219	<b>(meters)</b>	88821.721	257606.197																																														
						<b>Order</b>																																													
<b>Elevation</b>	<b>Vert. Datum f/m</b>	<b>Order</b>	<b>Stamping:</b>																																																
<b>NAVD88</b>	66.988/20.418		<b>Sketch</b>																																																
<b>NAVD29</b>	67.828/20.674		<b>Recov. Date:</b>	September 9,2010																																															
<b>Marked by:</b>	Iron Spk.																																																		
<b>Description:</b>																																																			
<b>Reference Marks:</b>																																																			
<b>Azimuth Data:</b>																																																			
<b>Geodetic:</b>	<p>FILE: 50372520.10o 000076066</p> <p>2005 NOTE: The IGS precise and IGS rapid orbits were not available</p> <p>2005 at processing time. The IGS ultra-rapid orbit was/will be used to</p> <p>2005 process the data.</p> <p>2005</p> <p style="text-align: center;">NGS OPUS SOLUTION REPORT</p> <p style="text-align: center;">=====</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: September 09, 2010</p> <p>RINEX FILE: 5037252m.10o                                    TIME: 20:33:22 UTC</p> <p>SOFTWARE: page5 0909.08 master2.pl 0810233            START: 2010/09/09 12:25:00</p> <p>EPHEMERIS: igu16004.eph [ultra-rapid]                    STOP: 2010/09/09 19:12:00</p> <p>NAV FILE: brdc2520.10n                                    OBS USED: 14296 / 15261 : 94%</p> <p>ANT NAME: TRM33429.00+GP NONE                          # FIXED AMB: 72 / 74 : 97%</p> <p>ARP HEIGHT: 1.670304                                    OVERALL RMS: 0.012(m)</p> <p>REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000)            ITRF00 (EPOCH:2010.6895)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 35%;">1581754.364(m)</td> <td style="width: 15%;">0.057(m)</td> <td style="width: 35%;">1581753.595(m)</td> <td style="width: 5%;">0.057(m)</td> </tr> <tr> <td>Y:</td> <td>-4491736.293(m)</td> <td>0.036(m)</td> <td>-4491734.852(m)</td> <td>0.036(m)</td> </tr> <tr> <td>Z:</td> <td>4228755.099(m)</td> <td>0.037(m)</td> <td>4228755.032(m)</td> <td>0.037(m)</td> </tr> <tr> <td>LAT:</td> <td>41 47 46.56158</td> <td>0.029(m)</td> <td>41 47 46.59484</td> <td>0.029(m)</td> </tr> <tr> <td>E LON:</td> <td>289 23 58.54224</td> <td>0.059(m)</td> <td>289 23 58.53155</td> <td>0.059(m)</td> </tr> <tr> <td>W LON:</td> <td>70 36 1.45776</td> <td>0.059(m)</td> <td>70 36 1.46845</td> <td>0.059(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-7.979(m)</td> <td>0.035(m)</td> <td>-9.228(m)</td> <td>0.035(m)</td> </tr> </table> <p><b>ORTHO HGT: 20.418(m) 0.061(m) [NAVD88 (Computed using GEOID09)]</b></p> <p style="text-align: center;">UTM COORDINATES                    STATE PLANE COORDINATES</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 45%;"></td> <td style="width: 25%;">UTM (Zone 19)</td> <td style="width: 30%;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td>4628394.243</td> <td>838835.159</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>367034.369</td> <td>274767.219</td> </tr> </table>							X:	1581754.364(m)	0.057(m)	1581753.595(m)	0.057(m)	Y:	-4491736.293(m)	0.036(m)	-4491734.852(m)	0.036(m)	Z:	4228755.099(m)	0.037(m)	4228755.032(m)	0.037(m)	LAT:	41 47 46.56158	0.029(m)	41 47 46.59484	0.029(m)	E LON:	289 23 58.54224	0.059(m)	289 23 58.53155	0.059(m)	W LON:	70 36 1.45776	0.059(m)	70 36 1.46845	0.059(m)	EL HGT:	-7.979(m)	0.035(m)	-9.228(m)	0.035(m)		UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4628394.243	838835.159	Easting (X) [meters]	367034.369	274767.219
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To convert meters to US survey feet  
Multiply by 3.2808333333

Convergence [degrees]	-1.06680006	0.60428380
Point Scale	0.99981756	0.99998931
Combined Factor	0.99981881	0.99999056
US NATIONAL GRID DESIGNATOR: 19TCG6703428394(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 84460.8
DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 89355.4
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 61568.1
NEAREST NGS PUBLISHED CONTROL POINT		
LW4497	PLYMOUTH WAREHAM 2 PLYMO COR 3	N414819.497 W0703659.888 1688.6
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>		



To convert meters to US survey feet  
 Multiply by 3.280833333