

## Town of Plymouth Data Sheet

<b>Station:</b>	Point 201	<b>Long Beach Parking Lot</b>		<b>NGS PID#</b>		<b>ID#</b>																									
<b>Town:</b>	Plymouth		<b>Quad:</b> Plym																												
<b>NAD83</b>	<b>Northerly</b>	<b>Easterly</b>	<b>NAD 27</b>	<b>Northerly</b>	<b>Easterly</b>																										
<b>(Survey Ft)</b>	2806690.546	893407.644	<b>(Survey Ft)</b>	346021.211	837106.030																										
<b>(meters)</b>	855480.989	272311.194	<b>(meters)</b>	105467.476	255150.428																										
						<b>Order</b>																									
<b>Elevation</b>	<b>Vert. Datum f/m</b>	<b>Order</b>	<b>Stamping:</b>																												
<b>NAVD88</b>	14.344/4.372		<b>Sketch</b>																												
<b>NAVD29</b>	15.174/4.625		<b>Recov. Date:</b>	January 10, 2012																											
<b>Marked by:</b>	Drill Hole																														
<b>Description:</b>																															
<b>Reference Marks:</b>																															
<b>Azimuth Data:</b>																															
<b>Geodetic:</b>	<p>FILE: 50370100.12o OPl326229838584            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>            USER: rfirth@townhall.plymouth.ma.us DATE: January 10, 2012            RINEX FILE: 50370100.12o TIME: 21:11:27 UTC            SOFTWARE: page5 1108.09 master.pl 0607113 START: 2012/01/10 14:44:00            EPHEMERIS: igu16702.eph [ultra-rapid] STOP: 2012/01/10 19:59:30            NAV FILE: brdc0100.12n OBS USED: 12708 / 12815 : 99%            ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 50 / 50 : 100%            ARP HEIGHT: 1.444752 OVERALL RMS: 0.009(m)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">REF FRAME: NAD_83 (CORS96) (EPOCH: 2002.0000)</td> <td style="width: 50%;">ITRF00 (EPOCH: 2012.0266)</td> </tr> <tr> <td>X: 1575903.458(m) 0.015(m)</td> <td>1575902.668(m) 0.015(m)</td> </tr> <tr> <td>Y: -4481986.795(m) 0.036(m)</td> <td>-4481985.358(m) 0.036(m)</td> </tr> <tr> <td>Z: 4241158.291(m) 0.011(m)</td> <td>4241158.229(m) 0.011(m)</td> </tr> <tr> <td>LAT: 41 56 46.89002 0.018(m)</td> <td>41 56 46.92357 0.018(m)</td> </tr> <tr> <td>E LON: 289 22 19.53869 0.023(m)</td> <td>289 22 19.52703 0.023(m)</td> </tr> <tr> <td>W LON: 70 37 40.46131 0.023(m)</td> <td>70 37 40.47297 0.023(m)</td> </tr> <tr> <td>EL HGT: -23.829(m) 0.027(m)</td> <td>-25.073(m) 0.027(m)</td> </tr> </table> <p style="background-color: yellow;">ORTHO HGT: 4.372(m) 0.047(m) [NAVD88 (Computed using GEOID09)]</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">UTM COORDINATES</td> <td style="width: 50%; text-align: center;">STATE PLANE COORDINATES</td> </tr> <tr> <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>4645101.985 855480.989</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>365065.568 272311.195</td> </tr> </table>							REF FRAME: NAD_83 (CORS96) (EPOCH: 2002.0000)	ITRF00 (EPOCH: 2012.0266)	X: 1575903.458(m) 0.015(m)	1575902.668(m) 0.015(m)	Y: -4481986.795(m) 0.036(m)	-4481985.358(m) 0.036(m)	Z: 4241158.291(m) 0.011(m)	4241158.229(m) 0.011(m)	LAT: 41 56 46.89002 0.018(m)	41 56 46.92357 0.018(m)	E LON: 289 22 19.53869 0.023(m)	289 22 19.52703 0.023(m)	W LON: 70 37 40.46131 0.023(m)	70 37 40.47297 0.023(m)	EL HGT: -23.829(m) 0.027(m)	-25.073(m) 0.027(m)	UTM COORDINATES	STATE PLANE COORDINATES	UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4645101.985 855480.989	Easting (X) [meters]	365065.568 272311.195
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To convert meters to US survey feet  
Multiply by 3.2808333333

Convergence [degrees]	-1.08831239	0.58581060
Point Scale	0.99982404	0.99997435
Combined Factor	0.99982778	0.99997808
US NATIONAL GRID DESIGNATOR: 19TCG6506545101(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 90486.1
DI0876	ACU5 ACUSHNET 5 CORS ARP	N414436.796 W0705313.027 31148.8
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 53201.9
NEAREST NGS PUBLISHED CONTROL POINT		
LW4625	LONG BEACH SOUTH 1934	N415652.243 W0703746.838 221.2
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  
 multiply by 3.2808333333