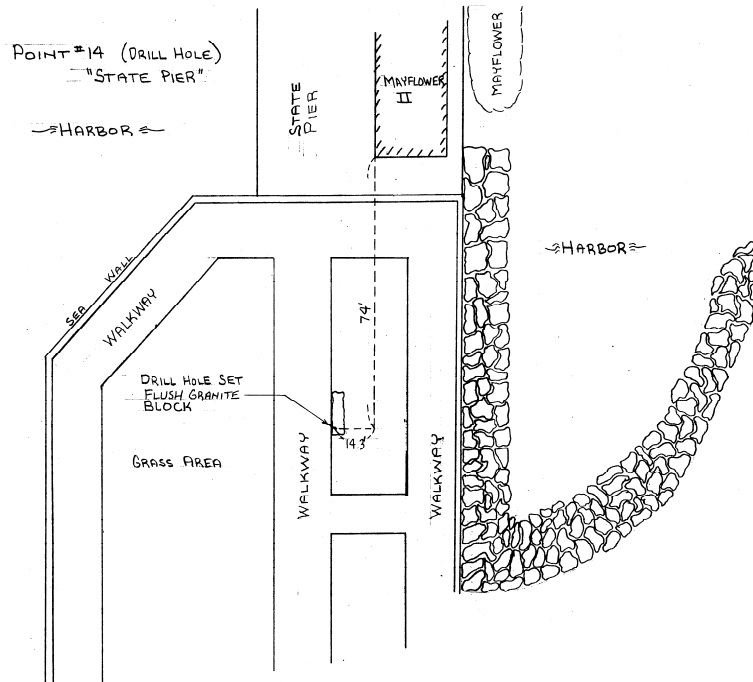


## Town of Plymouth Data Sheet

<b>Station:</b>	Point 14	<b>STATE PIER</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>	2811430.541	883944.056	<b>(Survey Ft)</b>	350761.302	827642.542																																						
<b>(meters)</b>	856925.743	269426.687	<b>(meters)</b>	106912.259	252265.951																																						
						<b>Order</b>																																					
<b>Elevation</b>	<b>Vert. Datum f/m</b>	<b>Order</b>	<b>Stamping:</b>	na																																							
<b>NAVD88</b>	11.270/3.435		<b>Sketch</b>	See Book																																							
<b>NAVD29</b>	12.096/3.687		<b>Recov. Date:</b>	Oct 8, 2009																																							
<b>Marked by:</b>	Drill Hole																																										
<b>Description:</b>	Drill Hole set in granite block flush to ground.																																										
<b>Reference Marks:</b>																																											
<b>Azimuth Data:</b>																																											
<b>Geodetic:</b>	<p>FILE: 50372740.09o 000121567  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.</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/Using_OPUS.html#accuracy">www.ngs.noaa.gov/OPUS/Using_OPUS.html#accuracy</a></p> <p>USER: rfirth@townhall.plymouth.ma.us      DATE: October 02, 2009  RINEX FILE: 50372740.09o      TIME: 11:11:39 UTC  SOFTWARE: page5 0909.08 master.pl 0810233      START: 2009/10/01 14:07:00  EPHEMERIS: igu15514.eph [ultra-rapid]      STOP: 2009/10/01 18:23:00  NAV FILE: brdc2740.09n      OBS USED: 10631 / 10728 : 99%  ANT NAME: TRM33429.00+GP NONE      # FIXED AMB: 37 / 39 : 95%  ARP HEIGHT: 1.514856      OVERALL RMS: 0.012(m)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000)</td> <td>ITRF00 (EPOCH:2009.7498)</td> </tr> <tr> <td>X: 1572868.970(m) 0.029(m)</td> <td>1572868.215(m) 0.029(m)</td> </tr> <tr> <td>Y: -4482007.784(m) 0.050(m)</td> <td>-4482006.344(m) 0.050(m)</td> </tr> <tr> <td>Z: 4242253.555(m) 0.008(m)</td> <td>4242253.486(m) 0.008(m)</td> </tr> <tr> <td>LAT: 41 57 34.65215 0.032(m)</td> <td>41 57 34.68535 0.032(m)</td> </tr> <tr> <td>E LON: 289 20 14.92597 0.015(m)</td> <td>289 20 14.91574 0.015(m)</td> </tr> <tr> <td>W LON: 70 39 45.07403 0.015(m)</td> <td>70 39 45.08426 0.015(m)</td> </tr> <tr> <td>EL HGT: -24.812(m) 0.047(m)</td> <td>-26.055(m) 0.047(m)</td> </tr> <tr> <td><b>ORTHO HGT: 3.435(m) 0.054(m) [NAVD88 (Computed using GEOID03)]</b></td> <td></td> </tr> </table> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th></th> <th style="text-align: center;">UTM COORDINATES</th> <th style="text-align: center;">STATE PLANE COORDINATES</th> </tr> <tr> <th></th> <th style="text-align: center;">UTM (Zone 19)</th> <th style="text-align: center;">SPC (2001 MA M)</th> </tr> </thead> <tbody> <tr> <td>Northing (Y) [meters]</td> <td style="text-align: center;">4646630.175</td> <td style="text-align: center;">856925.743</td> </tr> <tr> <td>Easting (X) [meters]</td> <td style="text-align: center;">362224.915</td> <td style="text-align: center;">269426.687</td> </tr> <tr> <td>Convergence [degrees]</td> <td style="text-align: center;">-1.11174696</td> <td style="text-align: center;">0.56255895</td> </tr> <tr> <td>Point Scale</td> <td style="text-align: center;">0.99983358</td> <td style="text-align: center;">0.99997335</td> </tr> </tbody> </table>							REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000)	ITRF00 (EPOCH:2009.7498)	X: 1572868.970(m) 0.029(m)	1572868.215(m) 0.029(m)	Y: -4482007.784(m) 0.050(m)	-4482006.344(m) 0.050(m)	Z: 4242253.555(m) 0.008(m)	4242253.486(m) 0.008(m)	LAT: 41 57 34.65215 0.032(m)	41 57 34.68535 0.032(m)	E LON: 289 20 14.92597 0.015(m)	289 20 14.91574 0.015(m)	W LON: 70 39 45.07403 0.015(m)	70 39 45.08426 0.015(m)	EL HGT: -24.812(m) 0.047(m)	-26.055(m) 0.047(m)	<b>ORTHO HGT: 3.435(m) 0.054(m) [NAVD88 (Computed using GEOID03)]</b>			UTM COORDINATES	STATE PLANE COORDINATES		UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4646630.175	856925.743	Easting (X) [meters]	362224.915	269426.687	Convergence [degrees]	-1.11174696	0.56255895	Point Scale	0.99983358	0.99997335
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To convert meters to US survey feet  
Multiply by 3.280833333

<p>Combined Factor                    0.99983747                    0.99997724  US NATIONAL GRID DESIGNATOR: 19TCG6222546630(NAD 83)  BASE STATIONS USED</p> <table border="1"> <thead> <tr> <th>PID</th> <th>DESIGNATION</th> <th>LATITUDE</th> <th>LONGITUDE</th> <th>DISTANCE(m)</th> </tr> </thead> <tbody> <tr> <td>DH5837</td> <td>CTPU PUTNAM CORS ARP</td> <td>N415358.888</td> <td>W0715320.889</td> <td>101953.8</td> </tr> <tr> <td>AF9520</td> <td>WES2 WESTFORD CORS ARP</td> <td>N423647.975</td> <td>W0712935.968</td> <td>99838.2</td> </tr> <tr> <td>DI0964</td> <td>FMTS MTS FRAM COOP CORS ARP</td> <td>N421800.171</td> <td>W0712630.865</td> <td>74715.3</td> </tr> </tbody> </table> <p>NEAREST NGS PUBLISHED CONTROL POINT  LW1544                    844 6493 TIDAL 10                    N415734.125 W0703944.753                    17.9</p> <p>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.</p>	PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)	DH5837	CTPU PUTNAM CORS ARP	N415358.888	W0715320.889	101953.8	AF9520	WES2 WESTFORD CORS ARP	N423647.975	W0712935.968	99838.2	DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171	W0712630.865	74715.3
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