

Town of Plymouth Data Sheet

Station:	Point 156	Route 44		NGS PID#		ID#																																																					
Town:	Plymouth		Quad: Plym																																																								
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																						
(Survey Ft)	2811000.289	869630.581	(Survey Ft)	350331.252	813329.108																																																						
(meters)	856794.602	265063.931	(meters)	106781.179	247903.208																																																						
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Elevation	Vert. Datum f/m	Order	Stamping:																																																								
NAVD88	170.784/52.055		Sketch																																																								
NAVD29	171.597/52.303		Recov. Date:	Oct 8, 2009																																																							
Marked by:	SB/Dh																																																										
Description:																																																											
Reference Marks:																																																											
Azimuth Data:																																																											
Geodetic:	<p>FILE: 50372810.09o 000126109 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: www.ngs.noaa.gov/OPUS/Using_OPUS.html#accuracy USER: rfirth@townhall.plymouth.ma.us DATE: October 09, 2009 RINEX FILE: 5037281n.09o TIME: 14:59:28 UTC SOFTWARE: page5 0909.08 master11.pl 081023 START: 2009/10/08 13:04:00 EPHEMERIS: igu15524.eph [ultra-rapid] STOP: 2009/10/08 18:46:00 NAV FILE: brdc2810.09n OBS USED: 13007 / 13278 : 98% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 39 / 39 : 100% ARP HEIGHT: 1.50876 OVERALL RMS: 0.011(m) REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2009.7689)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 25%;">1568782.336(m)</td> <td style="width: 15%;">0.034(m)</td> <td style="width: 15%;">1568781.581(m)</td> <td style="width: 15%;">0.034(m)</td> </tr> <tr> <td>Y:</td> <td>-4483541.556(m)</td> <td>0.021(m)</td> <td>-4483540.116(m)</td> <td>0.021(m)</td> </tr> <tr> <td>Z:</td> <td>4242219.344(m)</td> <td>0.029(m)</td> <td>4242219.275(m)</td> <td>0.029(m)</td> </tr> <tr> <td>LAT:</td> <td>41 57 31.74653</td> <td>0.039(m)</td> <td>41 57 31.77972</td> <td>0.039(m)</td> </tr> <tr> <td>E LON:</td> <td>289 17 5.42742</td> <td>0.025(m)</td> <td>289 17 5.41712</td> <td>0.025(m)</td> </tr> <tr> <td>W LON:</td> <td>70 42 54.57258</td> <td>0.025(m)</td> <td>70 42 54.58288</td> <td>0.025(m)</td> </tr> <tr> <td>EL HGT:</td> <td>23.727(m)</td> <td>0.017(m)</td> <td>22.485(m)</td> <td>0.017(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>52.055(m)</td> <td>0.031(m)</td> <td colspan="2">[NAVD88 (Computed using GEOID03)]</td> </tr> </table> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="width: 35%;">UTM (Zone 19)</td> <td style="width: 35%;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td>4646626.555</td> <td>856794.602</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>357860.767</td> <td>265063.931</td> </tr> <tr> <td>Convergence [degrees]</td> <td>-1.14694055</td> <td>0.52720017</td> </tr> </table>							X:	1568782.336(m)	0.034(m)	1568781.581(m)	0.034(m)	Y:	-4483541.556(m)	0.021(m)	-4483540.116(m)	0.021(m)	Z:	4242219.344(m)	0.029(m)	4242219.275(m)	0.029(m)	LAT:	41 57 31.74653	0.039(m)	41 57 31.77972	0.039(m)	E LON:	289 17 5.42742	0.025(m)	289 17 5.41712	0.025(m)	W LON:	70 42 54.57258	0.025(m)	70 42 54.58288	0.025(m)	EL HGT:	23.727(m)	0.017(m)	22.485(m)	0.017(m)	ORTHO HGT:	52.055(m)	0.031(m)	[NAVD88 (Computed using GEOID03)]			UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4646626.555	856794.602	Easting (X) [meters]	357860.767	265063.931	Convergence [degrees]	-1.14694055	0.52720017
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To convert meters to US survey feet
Multiply by 3.2808333333

	Point Scale	0.99984861	0.99997341
	Combined Factor	0.99984489	0.99996969
	US NATIONAL GRID DESIGNATOR: 19TCG5786046626(NAD 83)		
	BASE STATIONS USED		
	PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
	AF9520	WES2 WESTFORD CORS ARP	N423647.975 W0712935.968 96977.9
	DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 71044.2
	DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 45852.9
	NEAREST NGS PUBLISHED CONTROL POINT		
	LW4632	NICK ROCK 2	N415735.750 W0704257.856 145.0
	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