

Town of Plymouth Data Sheet

Station:	Point 208	Bourne Rd at Rte 25		NGS PID#		ID#																																															
Town:	Plymouth		Quad: Sag																																																		
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																
(Survey Ft)	2746507.784	900860.725	(Survey Ft)	285838.747	844558.193																																																
(meters)	837137.247	274582.898	(meters)	87123.824	257421.852																																																
						Order																																															
Elevation	Vert. Datum f/m	Order	Stamping:																																																		
NAVD88	70.856/21.597		Sketch																																																		
NAVD29	71.696/21.853		Recov. Date:	July 3,2012																																																	
Marked by:	MHB																																																				
Description:																																																					
Reference Marks:																																																					
Azimuth Data:																																																					
Geodetic:	<p>FILE: 50371850.12o OPl341354300417 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: http://www.ngs.noaa.gov/OPUS/about.html#accuracy</p> <p>USER: RFIRTH@TOWNHALL.PLYMOUTH.MA.US DATE: July 03, 2012 RINEX FILE: 5037185n.12o TIME: 22:27:27 UTC SOFTWARE: page5 1108.09 master30.pl 030912 START: 2012/07/03 13:36:00 EPHEMERIS: igu16952.eph [ultra-rapid] STOP: 2012/07/03 18:34:00 NAV FILE: brdc1850.12n OBS USED: 10648 / 11629 : 92% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 78 / 85 : 92% ARP HEIGHT: 1.545336 OVERALL RMS: 0.016(m)</p> <p>REF FRAME: NAD_83 (CORS96) (EPOCH:2002.0000) ITRF00 (EPOCH:2012.5046)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">X:</td> <td style="width: 30%;">1581939.284(m)</td> <td style="width: 10%;">0.048(m)</td> <td style="width: 10%;">1581938.487(m)</td> <td style="width: 10%;">0.048(m)</td> </tr> <tr> <td>Y:</td> <td>-4492870.224(m)</td> <td>0.012(m)</td> <td>-4492868.785(m)</td> <td>0.012(m)</td> </tr> <tr> <td>Z:</td> <td>4227491.399(m)</td> <td>0.042(m)</td> <td>4227491.337(m)</td> <td>0.042(m)</td> </tr> <tr> <td>LAT:</td> <td>41 46 51.59388</td> <td>0.041(m)</td> <td>41 46 51.62741</td> <td>0.041(m)</td> </tr> <tr> <td>E LON:</td> <td>289 23 49.78545</td> <td>0.044(m)</td> <td>289 23 49.77359</td> <td>0.044(m)</td> </tr> <tr> <td>W LON:</td> <td>70 36 10.21455</td> <td>0.044(m)</td> <td>70 36 10.22641</td> <td>0.044(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-6.823(m)</td> <td>0.026(m)</td> <td>-8.073(m)</td> <td>0.026(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>21.597(m)</td> <td>0.045(m)</td> <td>[NAVD88 (Computed using GEOID09)]</td> <td></td> </tr> </table> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES UTM (Zone 19) SPC (2001 MA M)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Northing (Y) [meters]</td> <td style="width: 30%;">4626702.718</td> <td style="width: 30%;">837137.247</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>366800.658</td> <td>274582.898</td> </tr> </table>							X:	1581939.284(m)	0.048(m)	1581938.487(m)	0.048(m)	Y:	-4492870.224(m)	0.012(m)	-4492868.785(m)	0.012(m)	Z:	4227491.399(m)	0.042(m)	4227491.337(m)	0.042(m)	LAT:	41 46 51.59388	0.041(m)	41 46 51.62741	0.041(m)	E LON:	289 23 49.78545	0.044(m)	289 23 49.77359	0.044(m)	W LON:	70 36 10.21455	0.044(m)	70 36 10.22641	0.044(m)	EL HGT:	-6.823(m)	0.026(m)	-8.073(m)	0.026(m)	ORTHO HGT:	21.597(m)	0.045(m)	[NAVD88 (Computed using GEOID09)]		Northing (Y) [meters]	4626702.718	837137.247	Easting (X) [meters]	366800.658	274582.898
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.06810350	0.60264986
Point Scale	0.99981833	0.99999121
Combined Factor	0.99981940	0.99999228
US NATIONAL GRID DESIGNATOR: 19TCG6680026702(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DE6262	URIL U OF RI COOP CORS ARP	N412920.157 W0713139.777 83611.4
DH5837	CTPU PUTNAM CORS ARP	N415358.888 W0715320.889 107645.2
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 62235.9
NEAREST NGS PUBLISHED CONTROL POINT		
LW4522	PLYMOUTH CORNER 2 1887	N414714.830 W0703737.400 2134.8
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