

Town of Plymouth Data Sheet

Station:	Point 205	Bournehurst1		NGS PID#		ID#																																																		
Town:	Plymouth		Quad: Sag																																																					
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																			
(Survey Ft)	2747464.962	898495.206	(Survey Ft)	286795.969	842192.698																																																			
(meters)	837428.995	273861.886	(meters)	87415.586	256700.848																																																			
						Order																																																		
Elevation	Vert. Datum f/m	Order	Stamping:																																																					
NAVD88	71.197/21.701		Sketch																																																					
NAVD29	72.037/21.957		Recov. Date:	February 26, 2012																																																				
Marked by:																																																								
Description:	Concrete Bound																																																							
Reference Marks:																																																								
Azimuth Data:																																																								
Geodetic:	<p>FILE: 50370530.12o OP1329945823264 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: February 22, 2012 RINEX FILE: 5037053p.12o TIME: 21:24:32 UTC SOFTWARE: page5 1108.09 master80.pl 060711 START: 2012/02/22 15:44:00 EPHEMERIS: igu16763.eph [ultra-rapid] STOP: 2012/02/22 20:15:00 NAV FILE: brdc0530.12n OBS USED: 7726 / 7820 : 99% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 34 / 34 : 100% ARP HEIGHT: 1.539240 OVERALL RMS: 0.010(m) REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2012.1441)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 30%;">1581195.901(m)</td> <td style="width: 15%;">0.014(m)</td> <td style="width: 15%;">1581195.110(m)</td> <td style="width: 15%;">0.014(m)</td> </tr> <tr> <td>Y:</td> <td>-4492920.571(m)</td> <td>0.053(m)</td> <td>-4492919.132(m)</td> <td>0.053(m)</td> </tr> <tr> <td>Z:</td> <td>4227714.628(m)</td> <td>0.029(m)</td> <td>4227714.565(m)</td> <td>0.029(m)</td> </tr> <tr> <td>LAT:</td> <td>41 47 1.29429</td> <td>0.019(m)</td> <td>41 47 1.32776</td> <td>0.019(m)</td> </tr> <tr> <td>E LON:</td> <td>289 23 18.69617</td> <td>0.028(m)</td> <td>289 23 18.68455</td> <td>0.028(m)</td> </tr> <tr> <td>W LON:</td> <td>70 36 41.30383</td> <td>0.028(m)</td> <td>70 36 41.31545</td> <td>0.028(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-6.732(m)</td> <td>0.049(m)</td> <td>-7.982(m)</td> <td>0.049(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>21.701(m)</td> <td>0.083(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%;">4627015.311</td> <td style="width: 30%;">837428.995</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>366088.581</td> <td>273861.887</td> </tr> <tr> <td>Convergence [degrees]</td> <td>-1.07391653</td> <td>0.59684887</td> </tr> </table>							X:	1581195.901(m)	0.014(m)	1581195.110(m)	0.014(m)	Y:	-4492920.571(m)	0.053(m)	-4492919.132(m)	0.053(m)	Z:	4227714.628(m)	0.029(m)	4227714.565(m)	0.029(m)	LAT:	41 47 1.29429	0.019(m)	41 47 1.32776	0.019(m)	E LON:	289 23 18.69617	0.028(m)	289 23 18.68455	0.028(m)	W LON:	70 36 41.30383	0.028(m)	70 36 41.31545	0.028(m)	EL HGT:	-6.732(m)	0.049(m)	-7.982(m)	0.049(m)	ORTHO HGT:	21.701(m)	0.083(m)	[NAVD88 (Computed using GEOID09)]		Northing (Y) [meters]	4627015.311	837428.995	Easting (X) [meters]	366088.581	273861.887	Convergence [degrees]	-1.07391653	0.59684887
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To convert meters to US survey feet
Multiply by 3.2808333333

Point Scale	0.99982067	0.99999087
Combined Factor	0.99982172	0.99999193
US NATIONAL GRID DESIGNATOR: 19TCG6608827015(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 83064.7
DI0884	ACU6 ACUSHNET 6 CORS ARP	N414435.676 W0705311.720 23314.7
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 61465.5
NEAREST NGS PUBLISHED CONTROL POINT		
LW4522	PLYMOUTH CORNER 2 1887	N414714.830 W0703737.400 1359.5
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 3.2808333333