

Town of Plymouth Data Sheet

Station:	Point 169	Debbie Court Cul-De-Sac		NGS PID#		ID#																																										
Town:	Plymouth		Quad: Sag																																													
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																											
(Survey Ft)	2751751.390	901342.976	(Survey Ft)	291082.306	845040.520																																											
(meters)	838735.501	274729.889	(meters)	88722.064	257568.866																																											
						Order																																										
Elevation	Vert. Datum f/m	Order	Stamping:																																													
NAVD88	58.701/19.892		Sketch																																													
NAVD29	59.541/18.148		Recov. Date:	September 2, 2010																																												
Marked by:	Iron Spike																																															
Description:																																																
Reference Marks:																																																
Azimuth Data:																																																
Geodetic:	<p>FILE: 50372450.10o 000072662 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: September 02, 2010 RINEX FILE: 5037245n.10o TIME: 20:20:54 UTC SOFTWARE: page5 0909.08 master29.pl 081023 START: 2010/09/02 13:48:00 EPHEMERIS: igu15994.eph [ultra-rapid] STOP: 2010/09/02 19:10:00 NAV FILE: brdc2450.10n OBS USED: 11157 / 11837 : 94% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 48 / 53 : 91% ARP HEIGHT: 1.658112 OVERALL RMS: 0.015(m)</p> <p>REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.6704)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 30%;">1581739.511(m)</td> <td style="width: 15%;">0.093(m)</td> <td style="width: 15%;">1581738.742(m)</td> <td style="width: 15%;">0.093(m)</td> </tr> <tr> <td>Y:</td> <td>-4491809.662(m)</td> <td>0.093(m)</td> <td>-4491808.221(m)</td> <td>0.093(m)</td> </tr> <tr> <td>Z:</td> <td>4228679.413(m)</td> <td>0.093(m)</td> <td>4228679.346(m)</td> <td>0.093(m)</td> </tr> <tr> <td>LAT:</td> <td>41 47 43.34433</td> <td>0.025(m)</td> <td>41 47 43.37759</td> <td>0.025(m)</td> </tr> <tr> <td>E LON:</td> <td>289 23 56.87990</td> <td>0.059(m)</td> <td>289 23 56.86921</td> <td>0.059(m)</td> </tr> <tr> <td>W LON:</td> <td>70 36 3.12010</td> <td>0.059(m)</td> <td>70 36 3.13079</td> <td>0.059(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-10.507(m)</td> <td>0.151(m)</td> <td>-11.756(m)</td> <td>0.151(m)</td> </tr> </table> <p>ORTHO HGT: 17.892(m) 0.151(m) [NAVD88 (Computed using GEOID09)]</p> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES UTM (Zone 19) SPC (2001 MA M)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">Northing (Y) [meters]</td> <td style="width: 30%;">4628295.732</td> <td style="width: 30%;">838735.501</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>366994.155</td> <td>274729.889</td> </tr> </table>							X:	1581739.511(m)	0.093(m)	1581738.742(m)	0.093(m)	Y:	-4491809.662(m)	0.093(m)	-4491808.221(m)	0.093(m)	Z:	4228679.413(m)	0.093(m)	4228679.346(m)	0.093(m)	LAT:	41 47 43.34433	0.025(m)	41 47 43.37759	0.025(m)	E LON:	289 23 56.87990	0.059(m)	289 23 56.86921	0.059(m)	W LON:	70 36 3.12010	0.059(m)	70 36 3.13079	0.059(m)	EL HGT:	-10.507(m)	0.151(m)	-11.756(m)	0.151(m)	Northing (Y) [meters]	4628295.732	838735.501	Easting (X) [meters]	366994.155	274729.889
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.06708933	0.60397362
Point Scale	0.99981769	0.99998942
Combined Factor	0.99981934	0.99999107
US NATIONAL GRID DESIGNATOR: 19TCG6699428295(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 84386.0
DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 89388.2
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 61582.8
NEAREST NGS PUBLISHED CONTROL POINT		
LW4497	PLYMOUTH WAREHAM 2 PLYMO COR 3	N414819.497 W0703659.888 1721.1
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