

Town of Plymouth Data Sheet

Station:	Point 217	FORGES FIELD		NGS PID#		ID#																													
Town:	Plymouth		Quad: Mano																																
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																														
(Survey Ft)	2810047.008	882605.306	(Survey Ft)	349377.800	826303.776																														
(meters)	856504.041	269018.635	(meters)	106490.567	251857.895																														
						Order																													
Elevation	Vert. Datum f/m	Order	Stamping:																																
NAVD88	98.799/30.114		Sketch																																
NAVD29	99.626/30.366		Recov. Date:	June 20, 2013																															
Marked by:																																			
Description:	Galv Spike set in pave island																																		
Reference Marks:																																			
Azimuth Data:																																			
Geodetic:	FILE: 50371710.130 OP1372338079864 NGS OPUS SOLUTION REPORT ===== All computed coordinate accuracies are listed as peak-to-peak values. For additional information: http://www.ngs.noaa.gov/OPUS/about.jsp#accuracy USER: rfirth@townhall.plymouth.ma.us DATE: June 27, 2013 RINEX FILE: 5037171p.130 TIME: 13:03:31 UTC SOFTWARE: page5 1209.04 master13.pl 082112 START: 2013/06/20 15:09:00 EPHEMERIS: igr17454.eph [rapid] STOP: 2013/06/20 20:29:00 NAV FILE: brdc1710.13n OBS USED: 12130 / 12538 : 97% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 51 / 55 : 93% ARP HEIGHT: 1.612392 OVERALL RMS: 0.015(m) REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2013.4678) <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">X: 1572579.070(m) 0.002(m)</td> <td style="width: 50%;">1572578.241(m) 0.002(m)</td> </tr> <tr> <td>Y: -4482426.465(m) 0.009(m)</td> <td>-4482425.025(m) 0.009(m)</td> </tr> <tr> <td>Z: 4241960.758(m) 0.009(m)</td> <td>4241960.736(m) 0.009(m)</td> </tr> <tr> <td>LAT: 41 57 21.11403 0.004(m)</td> <td>41 57 21.14889 0.004(m)</td> </tr> <tr> <td>E LON: 289 19 57.02829 0.003(m)</td> <td>289 19 57.01502 0.003(m)</td> </tr> <tr> <td>W LON: 70 40 2.97171 0.003(m)</td> <td>70 40 2.98498 0.003(m)</td> </tr> <tr> <td>EL HGT: 1.839(m) 0.012(m)</td> <td>0.609(m) 0.012(m)</td> </tr> <tr> <td>ORTHO HGT: 30.114(m) 0.024(m)</td> <td>[NAVD88 (Computed using GEOID12A)]</td> </tr> </table> UTM COORDINATES STATE PLANE COORDINATES <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;">UTM (Zone 19)</td> <td style="width: 50%; text-align: center;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters] 4646220.633</td> <td>856504.041</td> </tr> <tr> <td>Easting (X) [meters] 361804.775</td> <td>269018.635</td> </tr> <tr> <td>Convergence [degrees] -1.11499119</td> <td>0.55921940</td> </tr> <tr> <td>Point Scale 0.99983500</td> <td>0.99997363</td> </tr> <tr> <td>Combined Factor 0.99983471</td> <td>0.99997334</td> </tr> </table> US NATIONAL GRID DESIGNATOR: 19TCG6180446220(NAD 83)							X: 1572579.070(m) 0.002(m)	1572578.241(m) 0.002(m)	Y: -4482426.465(m) 0.009(m)	-4482425.025(m) 0.009(m)	Z: 4241960.758(m) 0.009(m)	4241960.736(m) 0.009(m)	LAT: 41 57 21.11403 0.004(m)	41 57 21.14889 0.004(m)	E LON: 289 19 57.02829 0.003(m)	289 19 57.01502 0.003(m)	W LON: 70 40 2.97171 0.003(m)	70 40 2.98498 0.003(m)	EL HGT: 1.839(m) 0.012(m)	0.609(m) 0.012(m)	ORTHO HGT: 30.114 (m) 0.024(m)	[NAVD88 (Computed using GEOID12A)]	UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters] 4646220.633	856504.041	Easting (X) [meters] 361804.775	269018.635	Convergence [degrees] -1.11499119	0.55921940	Point Scale 0.99983500	0.99997363	Combined Factor 0.99983471	0.99997334
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To convert meters to US survey feet
Multiply by 3.280833333

	BASE STATIONS USED			
	PID	DESIGNATION	LATITUDE	LONGITUDE DISTANCE(m)
	DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171	W0712630.865 74576.1
	DE6262	URIL U OF RI COOP CORS ARP	N412920.157	W0713139.777 88390.9
	DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018	W0711501.669 49760.6
	NEAREST NGS PUBLISHED CONTROL POINT			
	LW4631	PLYMOUTH COURT HOUSE CUPOLA	N415726.051	W0704000.247 165.0
	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