

Town of Plymouth Data Sheet

Station:	Point 216	Court House		NGS PID#		ID#																																																					
Town:	Plymouth		Quad: Plym																																																								
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																						
(Survey Ft)	2810646.114	882875.846	(Survey Ft)	349976.897	826574.325																																																						
(meters)	856686.649	269101.096	(meters)	106673.171	251940.358																																																						
						Order																																																					
Elevation	Vert. Datum f/m	Order	Stamping:																																																								
NAVD88	60.118/18.324		Sketch																																																								
NAVD29	60.945/18.576		Recov. Date:	June 12, 2013																																																							
Marked by:	Galv Spike in Brick Walk																																																										
Description:																																																											
Reference Marks:																																																											
Azimuth Data:																																																											
Geodetic:	FILE: 50371630.130 OP1372338044670 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: 5037163p.130 TIME: 13:03:02 UTC SOFTWARE: page5 1209.04 master90.pl 082112 START: 2013/06/12 15:08:00 EPHEMERIS: igr17443.eph [rapid] STOP: 2013/06/12 18:47:30 NAV FILE: brdc1630.13n OBS USED: 6382 / 7155 : 89% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 59 / 63 : 94% ARP HEIGHT: 1.545336 OVERALL RMS: 0.016(m) REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2013.4458) <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">X: 1572615.422(m)</td><td style="width: 33%;">0.006(m)</td><td style="width: 33%;">1572614.594(m)</td><td style="width: 33%;">0.006(m)</td></tr> <tr> <td>Y: -4482275.614(m)</td><td>0.019(m)</td><td>-4482274.174(m)</td><td>0.019(m)</td></tr> <tr> <td>Z: 4242088.072(m)</td><td>0.015(m)</td><td>4242088.050(m)</td><td>0.015(m)</td></tr> <tr> <td>LAT: 41 57 27.00635</td><td>0.007(m)</td><td>41 57 27.04120</td><td>0.007(m)</td></tr> <tr> <td>E LON: 289 20 0.68629</td><td>0.006(m)</td><td>289 20 0.67306</td><td>0.006(m)</td></tr> <tr> <td>W LON: 70 39 59.31371</td><td>0.006(m)</td><td>70 39 59.32694</td><td>0.006(m)</td></tr> <tr> <td>EL HGT: -9.948(m)</td><td>0.024(m)</td><td>-11.177(m)</td><td>0.024(m)</td></tr> <tr> <td>ORTHO HGT: 18.324</td><td>0.042(m)</td><td colspan="2">[NAVD88 (Computed using GEOID12A)]</td></tr> </table> UTM COORDINATES STATE PLANE COORDINATES UTM (Zone 19) SPC (2001 MA M) <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Northing (Y) [meters]</td><td style="width: 33%;">4646400.728</td><td style="width: 33%;">856686.649</td><td style="width: 33%;"></td></tr> <tr> <td>Easting (X) [meters]</td><td>361892.523</td><td>269101.096</td><td></td></tr> <tr> <td>Convergence [degrees]</td><td>-1.11434693</td><td>0.55990195</td><td></td></tr> <tr> <td>Point Scale</td><td>0.99983470</td><td>0.99997351</td><td></td></tr> <tr> <td>Combined Factor</td><td>0.99983626</td><td>0.99997507</td><td></td></tr> </table> US NATIONAL GRID DESIGNATOR: 19TCG6189246400(NAD 83) BASE STATIONS USED							X: 1572615.422(m)	0.006(m)	1572614.594(m)	0.006(m)	Y: -4482275.614(m)	0.019(m)	-4482274.174(m)	0.019(m)	Z: 4242088.072(m)	0.015(m)	4242088.050(m)	0.015(m)	LAT: 41 57 27.00635	0.007(m)	41 57 27.04120	0.007(m)	E LON: 289 20 0.68629	0.006(m)	289 20 0.67306	0.006(m)	W LON: 70 39 59.31371	0.006(m)	70 39 59.32694	0.006(m)	EL HGT: -9.948(m)	0.024(m)	-11.177(m)	0.024(m)	ORTHO HGT: 18.324	0.042(m)	[NAVD88 (Computed using GEOID12A)]		Northing (Y) [meters]	4646400.728	856686.649		Easting (X) [meters]	361892.523	269101.096		Convergence [degrees]	-1.11434693	0.55990195		Point Scale	0.99983470	0.99997351		Combined Factor	0.99983626	0.99997507	
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To convert meters to US survey feet
Multiply by 3.280833333

	PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m) DI0964 FMTS MTS FRAM COOP CORS ARP N421800.171 W0712630.865 74554.5 DI0966 XMTS MTS FOX COOP CORS ARP N420350.018 W0711501.669 49798.2 AF9520 WES2 WESTFORD CORS ARP N423647.974 W0712935.968 99787.5 NEAREST NGS PUBLISHED CONTROL POINT LW4631 PLYMOUTH COURT HOUSE CUPOLA N415726.051 W0704000.247 36.5 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 3.280833333