

**City of Dubuque, Iowa**

07/11/2020

Units: US Survey Feet

Point ID: 144

Stamping on Disk: **GPS 144**

NAD 83(NA2011) Latitude: **N42°26'50.71902"** Longitude: **W90°44'05.94116"**

NAVD 88 Ortho Height: **768.129sft** Ellip. Ht: **661.723sft** Geoid18(Conus)

Horizontal Datum: NAD 83(NA2011) - Vertical Datum: NAVD 1988

**Iowa North Zone (1401)** Northing: **3638297.638sft** Easting: **5667379.172sft**

Mapping Angle: **1°52'26.3"** Combination Scale Factor: **0.9999210889**

Iowa Regional Coordinate System, Zone 5, Waterloo LCC

**IaRCS Zone 5** Northing: **8400764.319sft** Easting: **21445571.669sft**

Mapping Angle: **-0°08'09.9"** Combination Scale Factor: **0.9999987524**

GPS #144	REFERENCE TIES
GPS #144, PLACED 5/8" X 14'6" ALUMINUM ROD WITH ALUMINUM CAP, STAMPED "GPS 144", AND ACCESS COVER, 6" DEEP. MON. 4" BELOW ACCESS COVER.	
ELEV. = 768.31 NAVD-88	
N. 3638297.6384 E. 5667379.4364 U.S. SURVEY FEET NAD-83 (1991)	
SCALE FACTOR 0.999952719 CONVERGENCE 01°52'26.31"	

