

## USGS INVAR Rod Encased in Concrete Pillar in Yellowstone, Wyoming (diagram)

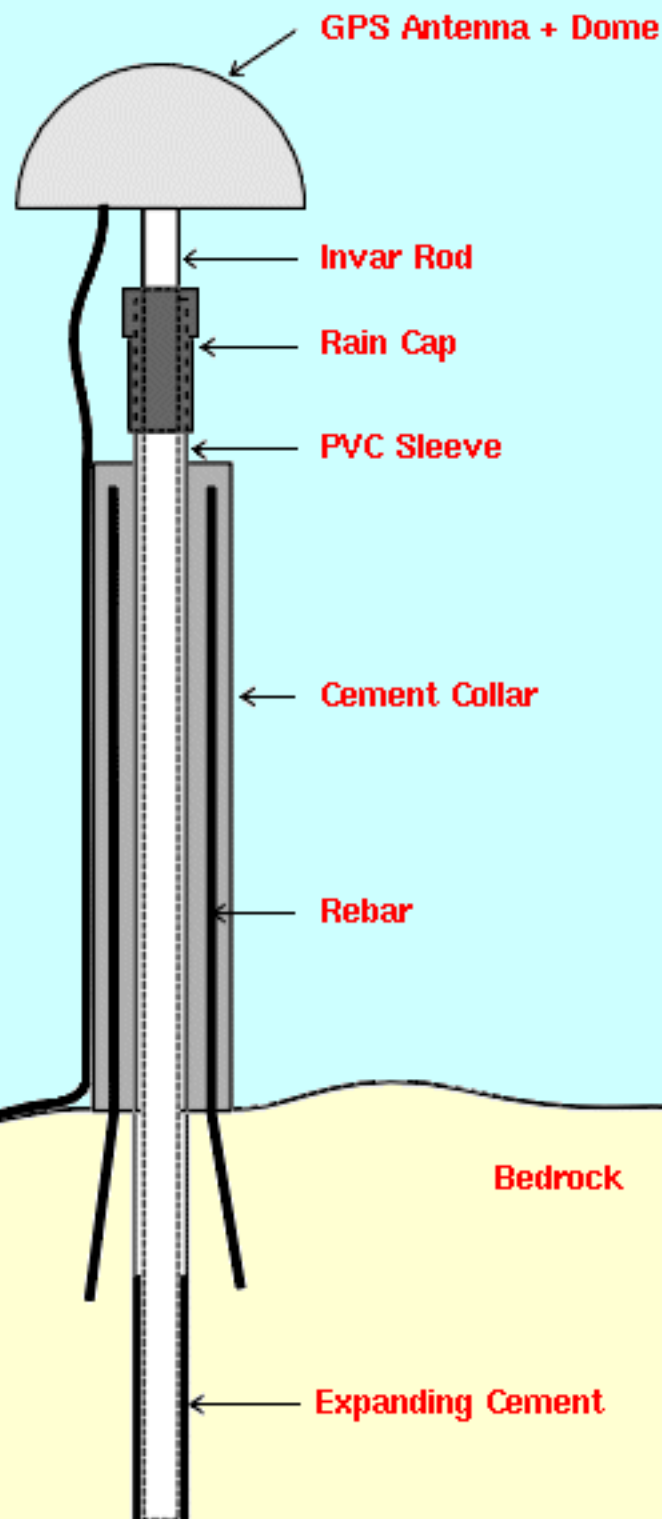
284 Beth Bartel November 24, 2008 [Concrete Pillar](#) 996

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## YELLOWSTONE GPS MONUMENT

Invar rod is coupled to bedrock with expanding cement only in lower approximate 2 feet of 4-foot-deep hole. Upper part of rod is isolated from cement collar by loose-fitting PVC pipe. Rain cap fits snugly on Invar rod, loosely over PVC. Cement collar provides protection from animals. Antenna is located approximately 8 feet above ground surface to keep it above snow.

3 feet (approximate)



*Topinka, USGS/CVD, 1999, Modified from: Dzurisin, GPS Project, 1999*

See the USGS [Yellowstone Continuous GPS Network](#) page for more.

Online URL:

<https://kb.unavco.org/article/usgs-invar-rod-encased-in-concrete-pillar-in-yellowstone-wyoming-diagram-284.html>