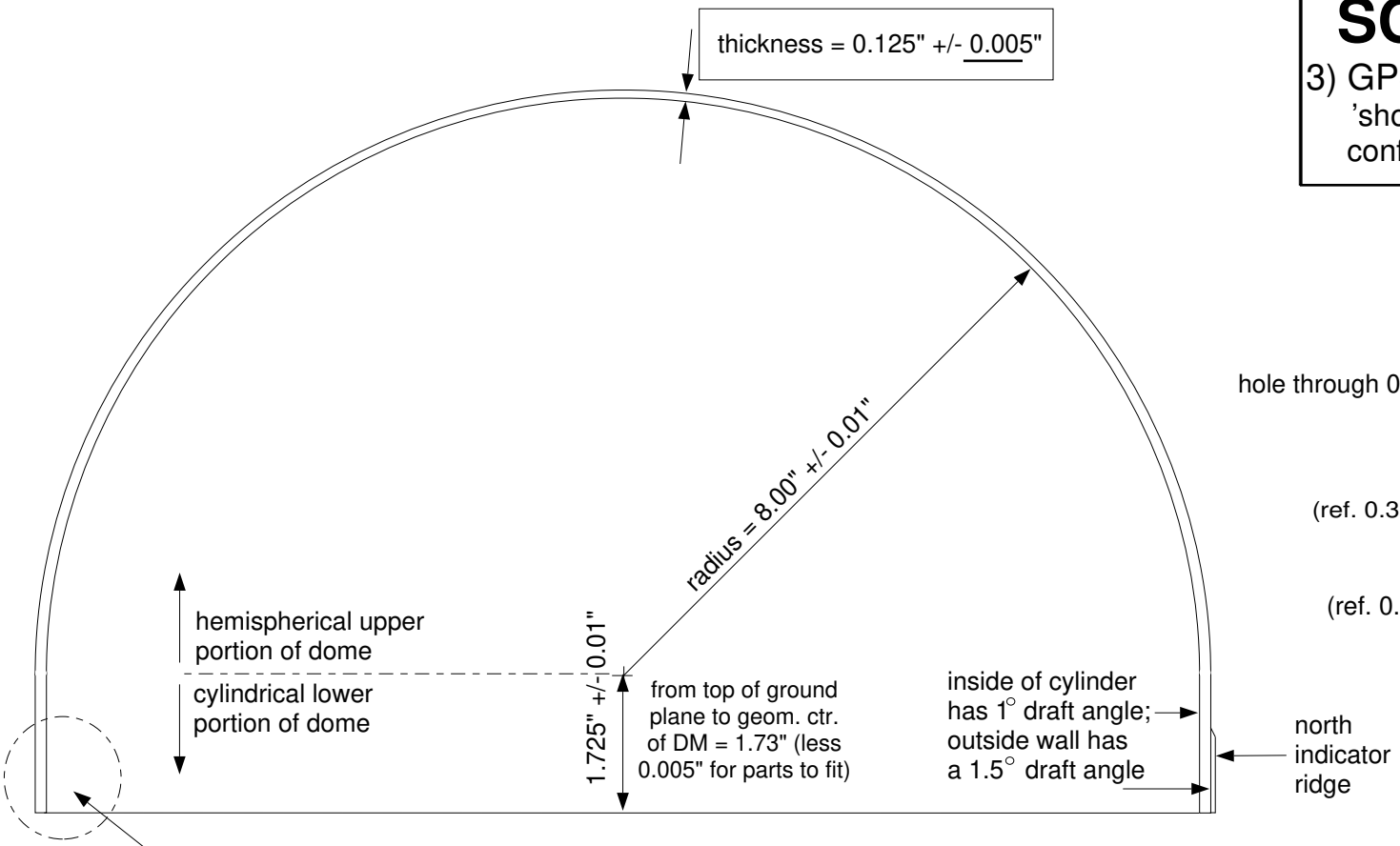
SCIGN	drawn by KWH
3) GPS radome: 'short dome' configuration	March 4, 1998
	scale 1 : 2.5



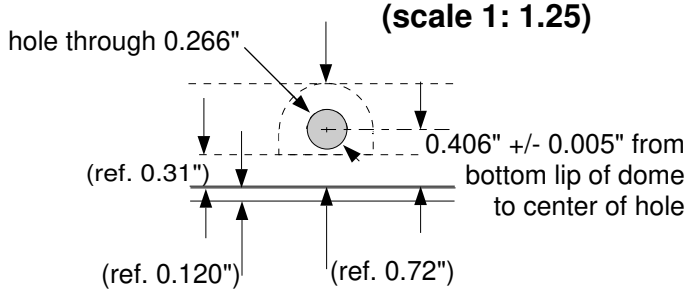
drill 0.266" +/- 0.005" dia through in 12 places on 30° +/- 0.05° with holes at 0.406" +/- 0.005" above bottom of rim (see detailed views at right for holes along lower edge of dome and the attachment to ring assembly)

to make short domes, cut off excess 3.200" (lowermost part of cylindrical lower portion) from tall dome part - then round the cut edges to mate with 0.025" radius around ledge.

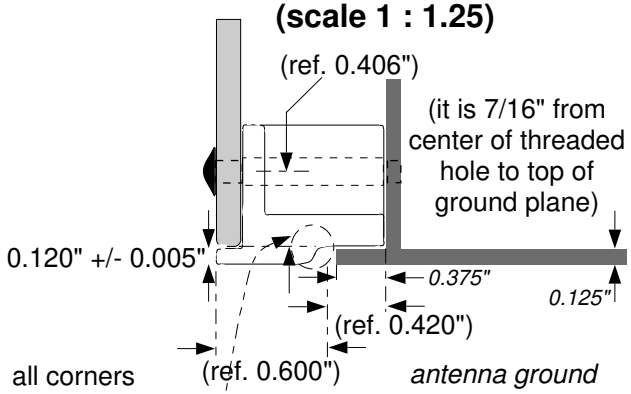
ring attaches to short dome using a set of four pop rivets for the sub-assembly of these two parts

attach short dome and ring assembly to GPS antenna using pan head screws 1/4" - 20 x 1.15" (metal with torx heads instead of nylon or slotted pan head screws) - these will not be countersunk

detail: side view of attachment (scale 1: 1.25)



detail: section of ring & dome attachment to antenna (scale 1 : 1.25)



all corners radius 0.025" (except for the two encircled - radius 0.0625")

antenna ground plane and outer-most choke ring shown here