Top surface to be ground to Ra 20 micro inches and flat to within .0005". 
Top surface to be parallel to bottom surface to within + .0005".

Mark UHV-compatible serial number (see note 6)

Notes-
1. Tile base to be made of full-fired alumina 99.8% pure or higher or proposed purity with prior agreement by UC.
2. Tile base to be hermetic in helium leak-test at UC to 5 × 10E - 10CC/SEC.
3. To facilitate hermetic sealing of the pins during assembly air-firing at at ~1600 C for 2-4 hrs. may eliminate micro-cracking due to grinding.
4. Details (dimensions, possible chamfer and/or step) of holes for pins and tubes to be worked out by ceramic vendor and brazing/metalization vendor.
5. Tol. -.0xx + - 0.010"  
   xx + - 0.020"
6. Serial number shall consist of two letters indicating manufacturer name followed by a three digit number (eg FR001).  
   (eg FR001). Serial number to be on the outer surface of a side without the tube or pin.

University of Chicago

1-inch Gen -II Ceramic Side Wall
Vendor O

DRAWN: morthrop 3/2/2018
CHECKED:
QA:
NFG:
APPROVED:

SIZE: B    DWG NO: Ceram1in030318revB    REV: B
SCALE: 3
SHEET 1 OF 1