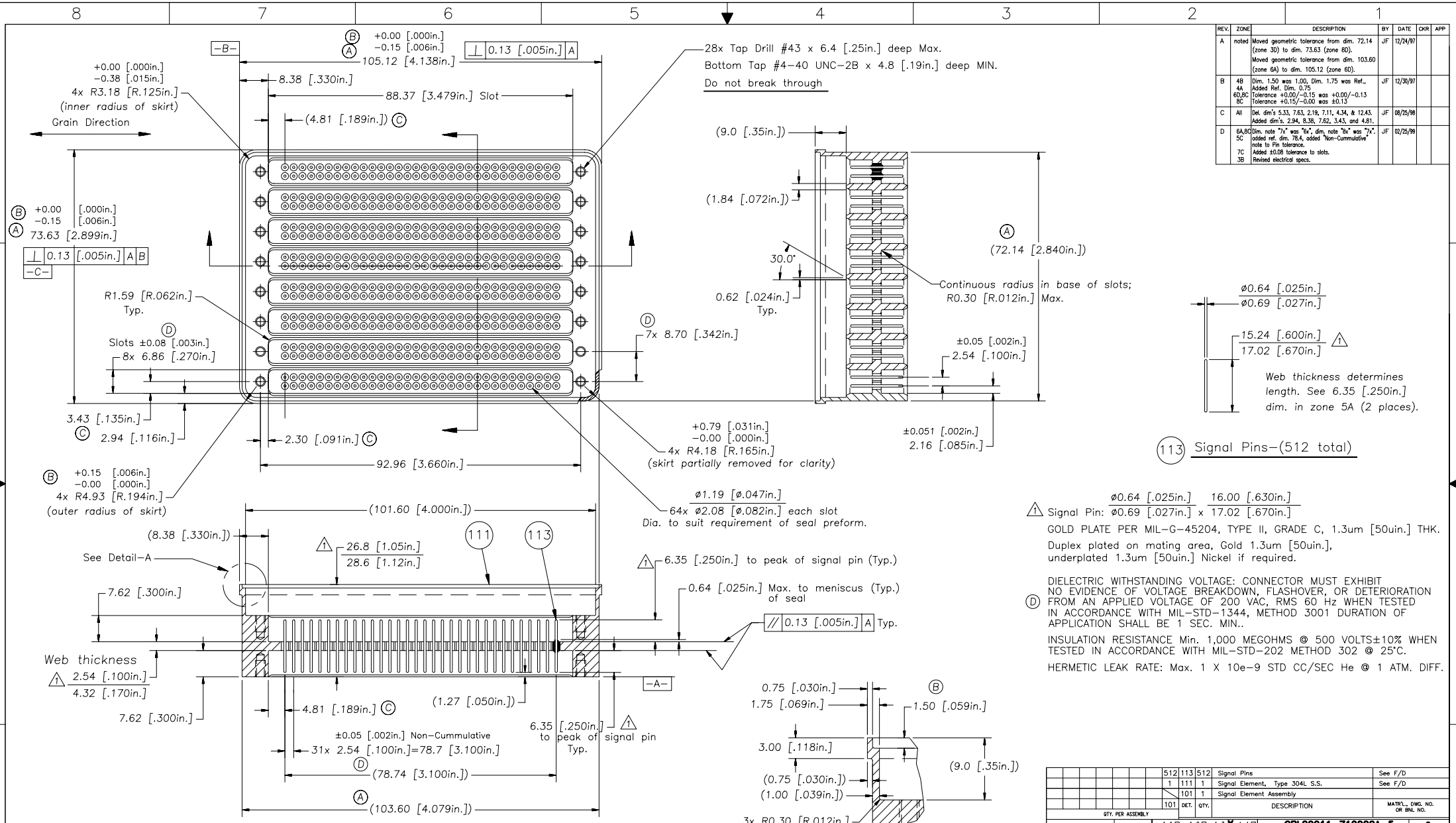


(101) Signal Element Assembly

Scale: 2:1

Detail-A (Skirt)

Scale: 4:1

(113) Signal Pins-(512 total)

| REV. | ZONE | DESCRIPTION | BY | DATE | CKR | APP |
|---|---|---|---|---|---|---|
| A | noted | Moved geometric tolerance from dim. 72.14 (zone 3D) to dim. 73.63 (zone 8D). Moved geometric tolerance from dim. 103.60 (zone 6A) to dim. 105.12 (zone 6D). | JF | 12/24/97 | | |
| B | 4B 4A 6D,8C 8C | Dim. 1.50 was 1.00, Dim. 1.75 was Ref., Added Ref. Dim. 0.75 Tolerance +0.00/-0.15 was +0.00/-0.13 Tolerance +0.15/-0.00 was ±0.13 | JF | 12/30/97 | | |
| C | All | Del. dim's 5.33, 7.63, 2.19, 7.11, 4.34, & 12.43. Added dim's. 2.94, 8.38, 7.62, 3.43, and 4.81. | JF | 08/25/98 | | |
| D | 6A,8C 5C 7C 3B | Dim. note "7x" was "6x", dim. note "8x" was "7x". added ref. dim. 78.4, added "Non-Cummulative" note to Pin tolerance. Added ±0.08 tolerance to slots. Revised electrical specs. | JF | 02/25/99 | | |

1 Signal Pin: ø0.64 [.025in.] / ø0.69 [.027in.] x 16.00 [.630in.] / 17.02 [.670in.]

GOLD PLATE PER MIL-G-45204, TYPE II, GRADE C, 1.3um [50uin.] THK.

Duplex plated on mating area, Gold 1.3um [50uin.], underplated 1.3um [50uin.] Nickel if required.

(D) DIELECTRIC WITHSTANDING VOLTAGE: CONNECTOR MUST EXHIBIT NO EVIDENCE OF VOLTAGE BREAKDOWN, FLASHOVER, OR DETERIORATION FROM AN APPLIED VOLTAGE OF 200 VAC, RMS 60 Hz WHEN TESTED IN ACCORDANCE WITH MIL-STD-1344, METHOD 3001 DURATION OF APPLICATION SHALL BE 1 SEC. MIN..

INSULATION RESISTANCE Min. 1,000 MEGOHMS @ 500 VOLTS±10% WHEN TESTED IN ACCORDANCE WITH MIL-STD-202 METHOD 302 @ 25°C.

HERMETIC LEAK RATE: Max. 1 X 10e-9 STD CC/SEC He @ 1 ATM. DIFF.

1 Manufacturing method determines Web thickness, Signal Pin length, and overall height based on Mfgr.'s Seal Preform installation.

**Notes: Unless otherwise specified:**

ALL DIMENSIONS ARE IN MILLIMETERS
DIMENSIONS IN BRACKETS [ ] ARE IN INCHES.

FILENAME: E:\DWGS\ATLAS\GBL20011\600000.DIR\600148D-4

| QTY. PER ASSEMBLY | DET. | QTY. | DESCRIPTION | MATR'L., DWG. NO. OR BNL NO. |
|---|---|---|---|---|
| 512 | 113 | 512 | Signal Pins | See F/D |
| 1 | 111 | 1 | Signal Element, Type 304L S.S. | See F/D |
| 101 | 1 | | Signal Element Assembly | |

QA: A-1 ☐ A-2 ☐ A-3 X A-4 ☐ QA CATEGORY

GBL20011-710002A-5 — USED ON DWG. NO. — NO. PER ASSY 2

DRWN: Jason Farrell 12/19/97 — ENGR: — SUPV: — CHK: — APP'D — DATE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS AND TOLERANCES ARE MM [IN]

| | | | |
|---|---|---|---|
| Decimals X. [X.X] | ±.76 [.030] | Fractions 0-20 | ±1 [1/32] |
| Decimals X.X [X.XX] | ±.38 [.015] | Fractions > 20 | ±3 [1/8] |
| Decimals X.XX [X.XXX] | ±.13 [.005] | Break Edges Min. | .13 [.005] |
| Angular | ±0.5° | Break Edges Max. | .38 [.015] |
| Finish | 3.2 [125] | Weight (kg) [lbs] | |

ATLAS — D. NAHR 1999-04-20 — APPROVED P. PATELLER 1999-04-20 — PROJECT ENGINEER — FOR INFORMATION — ATLABFS 0014 AA

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

**ATLAS**
**512 Pin Signal Element**

SHEET 1 of 1 — SCALE: 2/1

SIZE D — DRAWING NUMBER GBL20011-600148 -4 — REV. D

Date: 02/25/1999 2

*AUTOCAD