

Declassified by ASD - 04/02/2022  
Information removed for national  
security and/or personal sensitivities

To:

19th December, 1985

Fm:

Subject: Site Preparation for Cray Computer

Further to my recent visit, and our discussions concerning computer room floor preparation I enclose the following:-

1. Figure 4 - 8 Pedestal Locations. (modified to include additional stringer removal).

Please note that a total of eight stringers should be removed to ensure free access of refrigeration pipework and electrical cabling. Additional floor support pedestals may be required to restore the structural integrity of the floor system in areas where stringers are removed.

2. Figure 3 - 9 SSD floor preparation requirements for Cray X-MP System.

We confirm the following:

(a) The position of the SSD, as marked on the computer room floor is correct.

(b) Two stringers should be removed, as identified in figure 3 - 9.

(c) Hole cutout "A" - three of the four stringers and the support pedestal which is positioned in the centre of cutout "A" do not need to be removed.

(d) The two floor tiles between the X-MP and the S.S.D. need to be cut and supported as shown in figure 3 - 9.

3. Figure 5 - 2 IOC-1 Floor Preparation Requirements

Two stringers should be removed, as identified in figure 5 - 2.

EXAMINED

Declassified by ASD - 04/02/2022  
Information removed for national  
security and/or personal sensitivities

4. Refrigeration Pipework test procedure.

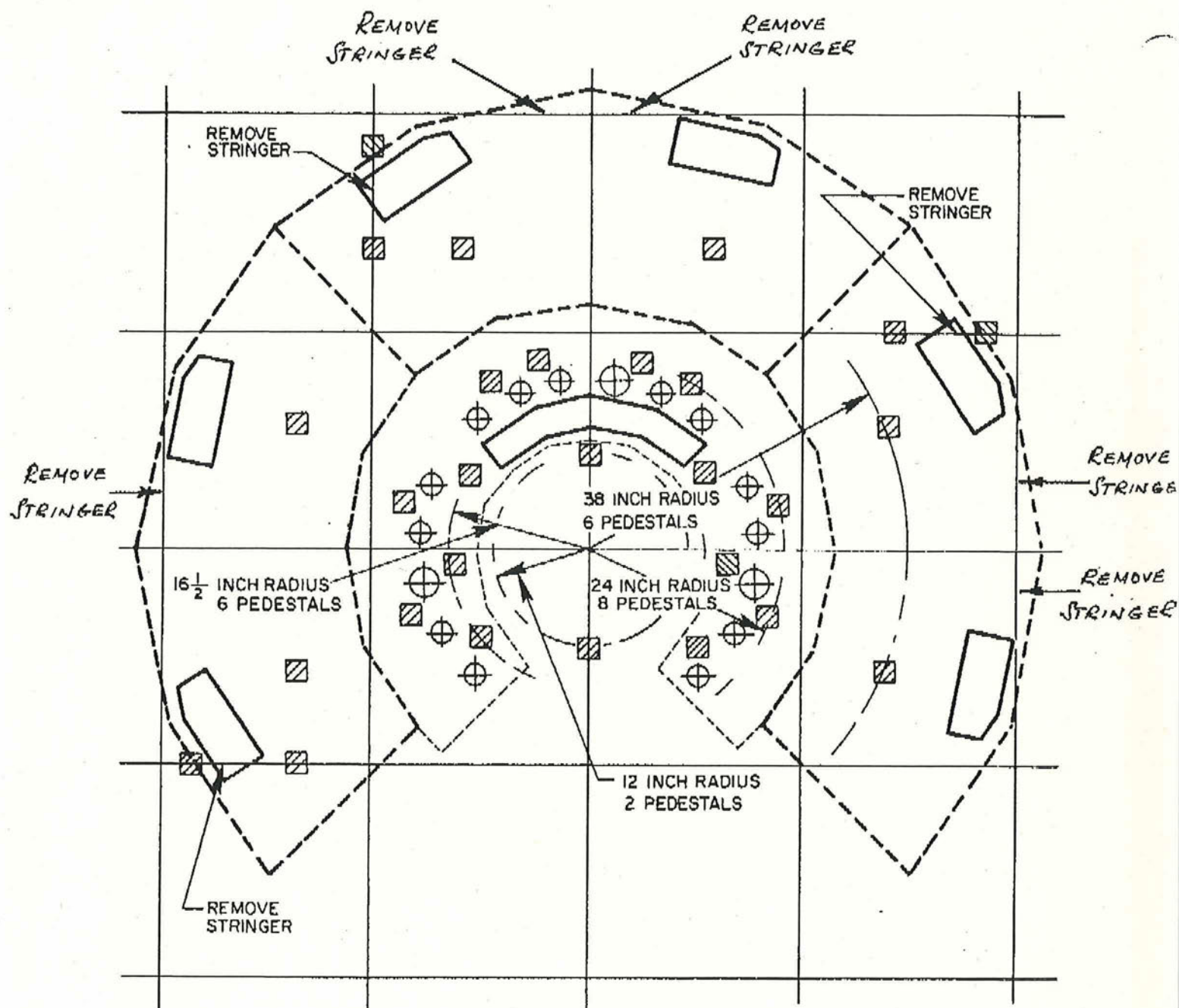
The floor cutout and additional support pedestals will be inspected during the final site preparation review.

Please confirm that Fliway have positioned the anti-vibration pads beneath the Refrigeration Condensing Units.

I would like to take this opportunity to thank you for your assistance during my visit and wish you and your colleagues a Merry Christmas and a Happy New Year.

Best Regards,

Declassified by ASD - 04/02/2022

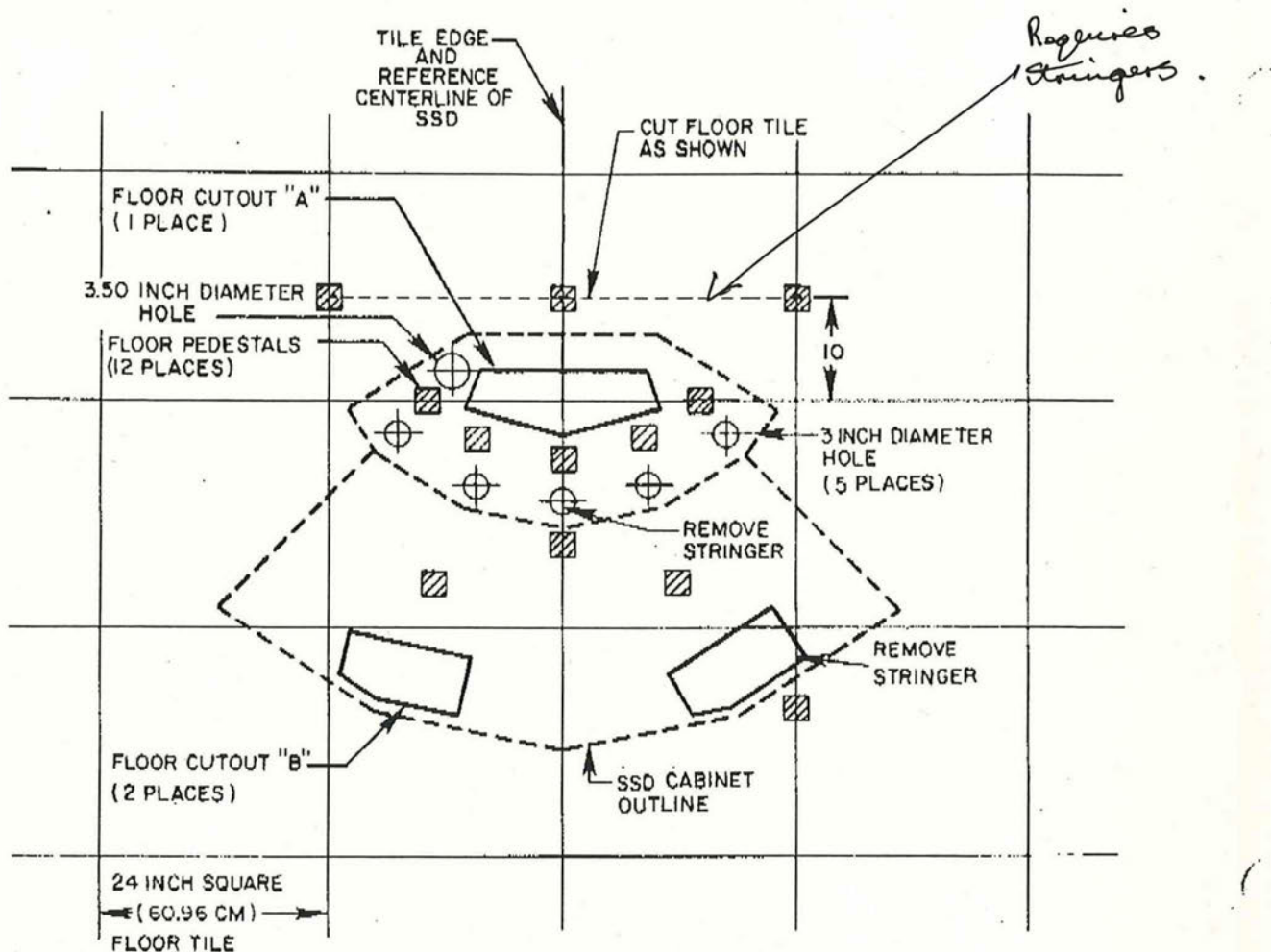


## INCHES TO CENTIMETERS CONVERSION TABLE

12	= 30.48 cm	38	= 96.52 cm
24	= 60.96 cm	16 1/2	= 41.91 cm

Figure 4-8. Pedestal locations





# INCHES TO CENTIMETERS CONVERSION TABLE

3 = 7.62 CM

3 1/2 = 8.89 CM

10 = 25.40 CM

Figure 3-9. SSD floor preparation requirements for CRAY X-MP System

Declassified by ASD - 04/02/2022

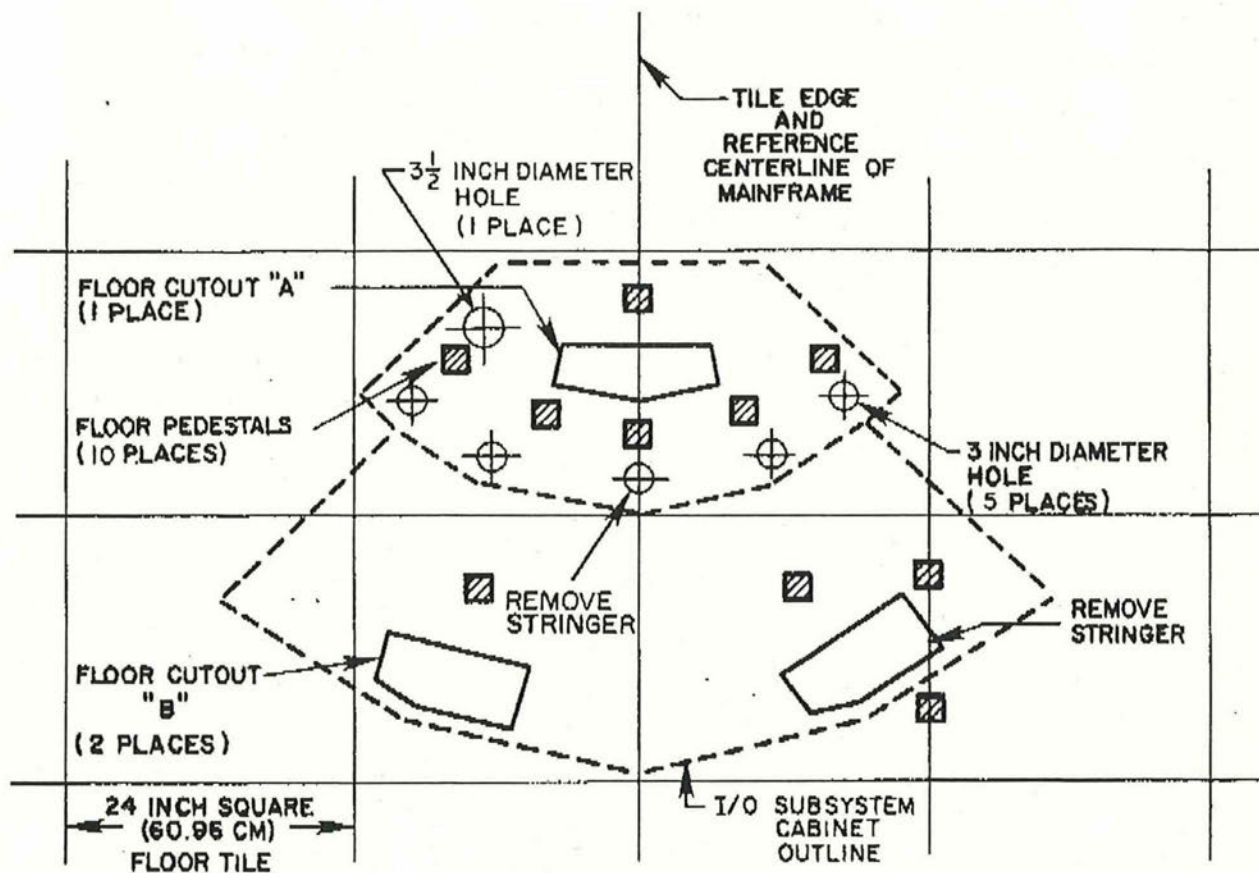


Figure 5-2. IOC-1 floor preparation requirements

REFRIGERATION PIPEWORK TEST PROCEDURE

1. Pressure test with dry Nitrogen to a pressure of 300 PSIG, ensure that pressure remains stable for 2 hours.
2. Release pressure in pipework.
3. Pull 1st vacuum, using Edwards high vacuum pump and refrigeration manifold gauge to 30" Mercury, ensure that gauge reading remains stable for 2 hours.
4. Release vacuum by injection of R.22 refrigerant to a pressure of 10 P.S.I., ensure that pressure remains stable for 30 minutes.
5. Pull 2nd vacuum, using Edwards high vacuum pump and Torr gauge to 5 Torr, ensure that Torr gauge reading remains constant for 2 hours.
6. Release vacuum by injection of R.22 refrigerant to a pressure of 10 P.S.I., ensure that pressure remains stable for 30 mins.
7. Pull 3rd Vacuum using Edwards high vacuum pump and Torr gauge to <0.5 Torr, ensure that Torr gauge reading remains constant for a period of 24 hours.
8. Release vacuum by injection of R.22 refrigerant to a holding charge pressure of 50 P.S.I.

Tests carried out by: .....

24 hour vacuum test Commenced: .....

Completed: .....

Witnessed by: .....