SPECIFICATIONS

SHIELDING REQUIREMENTS:

ENTRY PANEL 3/4"THK LEAD

EXIT PANEL 1"THK LEAD (TOTAL BACK WALL= 2" THK LEAD)

SIDE WALLS 3/4"THK LEAD

ROOF 1/2"THK LEAD

CONSTRUCTION: MODULAR

STRUCTURE: SELF-SUPPORTED

COMMERCIAL RATED: 40 LBS LIVE WEIGHT/SQ FT

100 LBS DEAD WEIGHT/SQ FT

OVERALL DIMS:

3.0M Avg WIDTH X 10.50M LONG X 3.3M HIGH [9.8' X 34.5' X 11']

CLEAR HEIGHT INSIDE: 3.0M [10']

DOOR OPENING: 2.4M HIGH X 1.0M WIDE [8'X 3.3']

SLIDING DOORS: TWO MANUAL, FIXED BY LATCH

TWO PNEUMATIC WITH MANUAL OVERRIDE

STANDARD SIDE PANEL: 1.0M WIDE X 3.3M HIGH [3.3'X11']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 19mm [3/4"]- STEEL 6mm[1/4"]

STRUCTURE: 3 1/2" X 3 1/2" X 1/4" STEEL ANGLE, ALL AROUND

WEIGHT: 2290LB

STANDARD BACK PANEL: 1.0M WIDE X 3.3M HIGH [3.3'X11']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 25mm [1"]- STEEL 6mm[1/4"]

STRUCTURE: 3 1/2" X 3 1/2" X 1/4" STEEL ANGLE, ALL AROUND

WEIGHT: 2823LB

STANDARD ROOF PANEL: 1.0M WIDE X 1.75M LONG [3.3'X5.8']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 12mm [1/2"]- STEEL 6mm[1/4"]

STRUCTURE: MC 6 X 16.3 STEEL CHANNEL, ALL AROUND

WEIGHT: 1150LB

STANDARD DOOR PANEL: 1.0M WIDE X 2.5M HIGH [3.3'X8']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 19mm [3/4"]- STEEL 6mm [1/4"]

WEIGHT: 1470LB

LABYRINTH PANELS: UTILITIES, CABLES, VENTILATION, OZONE

UTILITIES: CHILLED WATER 5°–0.8°C [41°–1.5°F]

DI WATER

COMPRESSED AIR 90psi

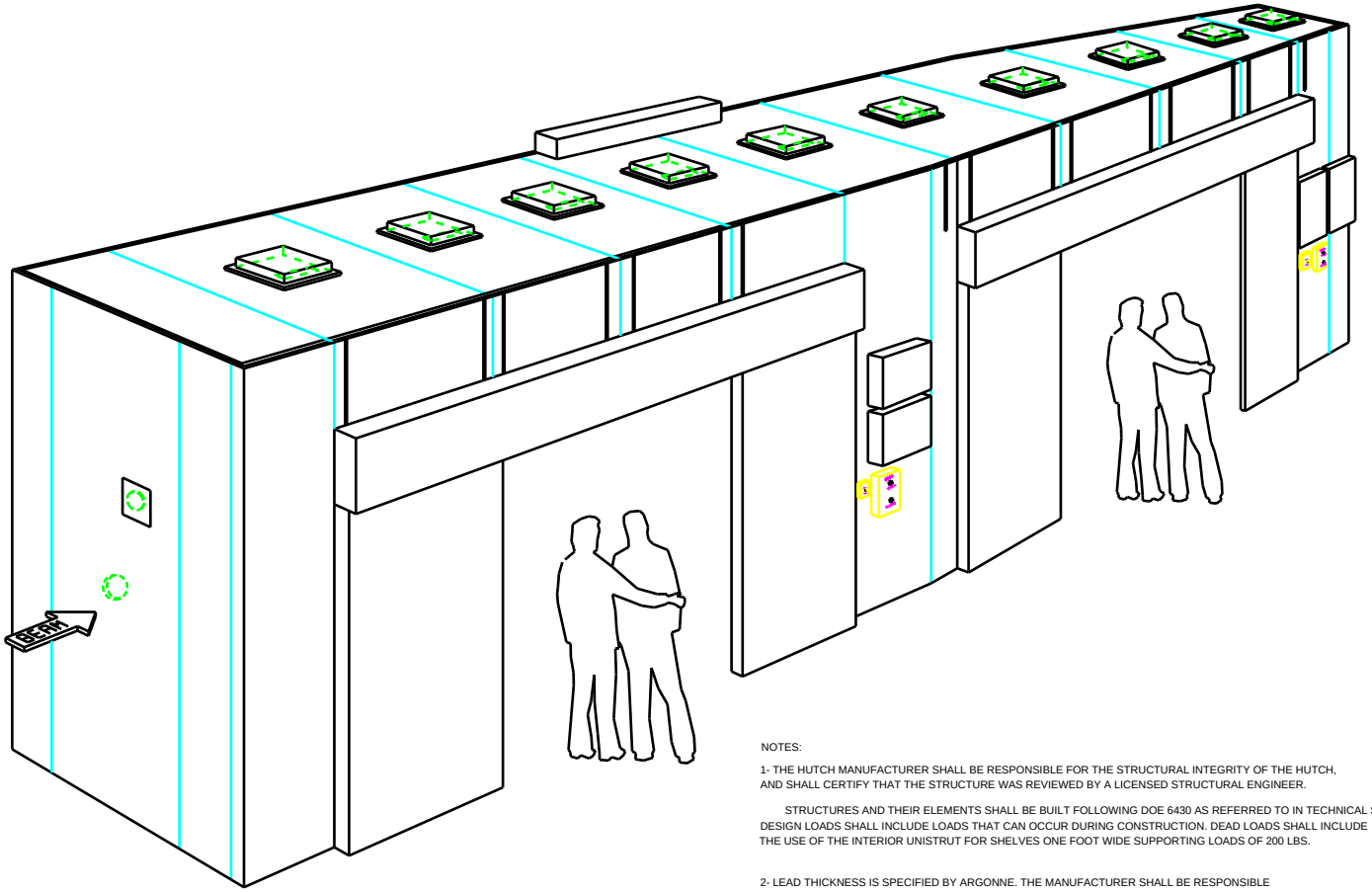
ELECTRICAL POWER 2X 30kVA 120/208V

WORK STATION CRANE WITH MANUAL HOIST:

SPAN 1.5M [5'] WIDE X RUNWAY LENGTH 10.2M [33.5'] X CLEAR HEIGHT 3.0M [10']

CAPACITY: 1000Kg [1 TON]

ILLUMINATION: FLUORESCENT- OFFICE RATED: 100 FOOT CANDLE.



NOTES:

1- THE HUTCH MANUFACTURER SHALL BE RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE HUTCH, AND SHALL CERTIFY THAT THE STRUCTURE WAS REVIEWED BY A LICENSED STRUCTURAL ENGINEER.

STRUCTURES AND THEIR ELEMENTS SHALL BE BUILT FOLLOWING DOE 6430 AS REFERRED TO IN TECHNICAL SPECS. DESIGN LOADS SHALL INCLUDE LOADS THAT CAN OCCUR DURING CONSTRUCTION. DEAD LOADS SHALL INCLUDE THE USE OF THE INTERIOR UNISTRUT FOR SHELVES ONE FOOT WIDE SUPPORTING LOADS OF 200 LBS.

2- LEAD THICKNESS IS SPECIFIED BY ARGONNE. THE MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING A RADIATION LEAK PROOF HUTCH.

LEAD LINED PANELS SHALL BE CONSTRUCTED FROM SINGLE UNPIERCED SHEET, FREE OF OXIDE INCLUSIONS, FISSURES, VOIDS AND ALL OTHER DETRIMENTAL DEFECTS. MATERIAL SHALL BE LEAD GRADE 'C' TO COMPLY WITH FEDERAL SPECIFICATION QQ-L-201. HUTCH SHALL MEET ALL APPLICABLE RADIATION GUIDE LINES REFERRED TO IN TECHNICAL SPECS.

LEGEND:

DET./SECT.

SHT. SHOWN

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY

PARTS LIST

DRAWN BY corcuera	DATE 2/13/98	DESIGN CHECKED D. SHU	DATE 5/29/98
DESIGNED BY G. SRAJER, J. CHANG	DATE 6/19/98, 5/29/98	DESIGN APPROVED T. KUZAY	DATE 7/1/98
DRAFTED CORCUERA/CHANG	DATE 2/13/98	PROJECT MGR D. MILLS	DATE 6/24/98
MANUFACTURING ENGINEER J. CHANG	DATE 5/29/98	MANUFACTURING MGR	DATE

THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY

TITLE ADVANCED PHOTON SOURCE

HJ SRICAT WBES 4-ID-B
WHITE BEAM
EXPERIMENTAL STATION
ASSEMBLY

MODEL (DRAWING TREE)

SCALE 1:20 SIZE D DRAWING NUMBER HJ-320000-00-02 SHEET 2 OF 13

ITEM	CHANGE DESCRIPTION	BY	CHKD	DATE

REVISIONS

DO NOT SCALE DRAWING