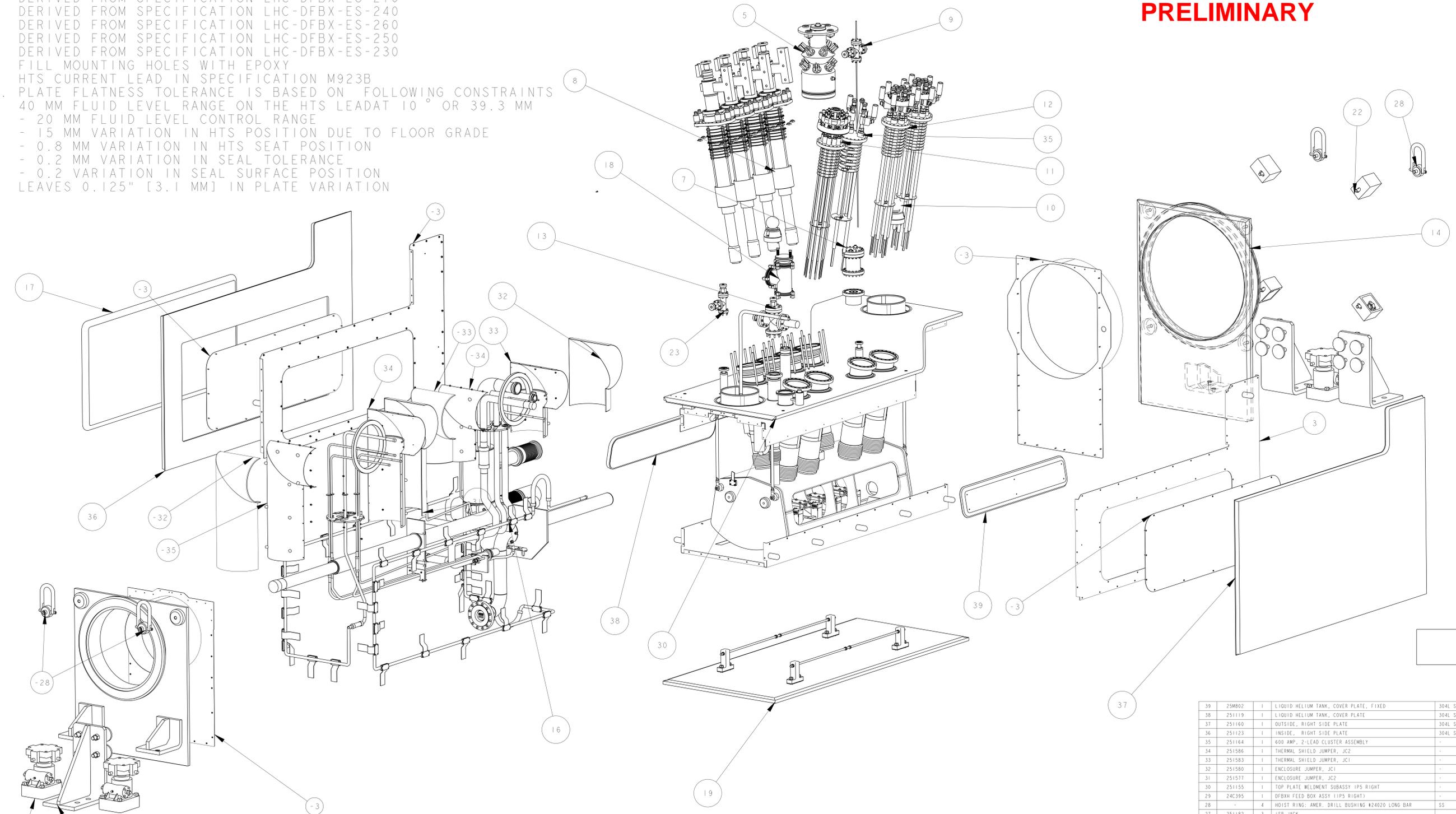


PRELIMINARY

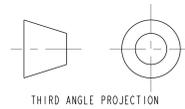
NOTE:

- 1. DERIVED FROM SPECIFICATION LHC-DFBX-ES-100
- 2. DERIVED FROM SPECIFICATION LHC-DFBX-ES-200
- 3. DERIVED FROM SPECIFICATION LHC-DFBX-ES-210
- 4. DERIVED FROM SPECIFICATION LHC-DFBX-ES-240
- 5. DERIVED FROM SPECIFICATION LHC-DFBX-ES-260
- 6. DERIVED FROM SPECIFICATION LHC-DFBX-ES-250
- 7. DERIVED FROM SPECIFICATION LHC-DFBX-ES-230
- 8. FILL MOUNTING HOLES WITH EPOXY
- 9. HTS CURRENT LEAD IN SPECIFICATION M923B
- 10. PLATE FLATNESS TOLERANCE IS BASED ON FOLLOWING CONSTRAINTS
 - 40 MM FLUID LEVEL RANGE ON THE HTS LEAD AT 10° OR 39.3 MM
 - 20 MM FLUID LEVEL CONTROL RANGE
 - 15 MM VARIATION IN HTS POSITION DUE TO FLOOR GRADE
 - 0.8 MM VARIATION IN HTS SEAT POSITION
 - 0.2 MM VARIATION IN SEAL TOLERANCE
 - 0.2 VARIATION IN SEAL SURFACE POSITION
 - LEAVES 0.125" [3.1 MM] IN PLATE VARIATION



SCALE 1/10

- 11. SOLDER JOINT USING SN60PB40 SOLDER; ROSIN FLUX, USE SPLICE PLATE IF REQUIRED
- 12. CLOSEOUT WELD PROCEDURE TO BE APPROVED BY LBNL
- 13. WELD PROCEDURE TO BE APPROVED BY LBNL, USE GTAW PROCESS
- 14. BELLOWS TO BE WITHIN 0.03" OF FREE CONFIGURATION AFTER CLOSEOUT WELDING
- 15. DIMENSIONS FROM DFBX FLANGE FACE ON DI SIDE, ADD -2367.2 MM TO OBTAIN POSITION RELEVANT TO DFBX COORDINATE SYSTEM
- 16. SHIM TANK SUPPORTS TO LIMIT STATIC DEFLECTION OF THE LOWER TANK SUPPORT RODS TO LESS THAN 0.25"
- 17. DIMENSIONS SHOW IN INSPECTION OVAL ARE REFERENCED IN THE FABRICATION TRAVELER
- 18. COPPER STRAP ATTACHED TO THE THERMAL ANCHORS DO NOT HAVE TO BE EVENLY SPACED.
- 19. ALL DIMENSIONS GIVEN AT ROOM TEMPERATURE

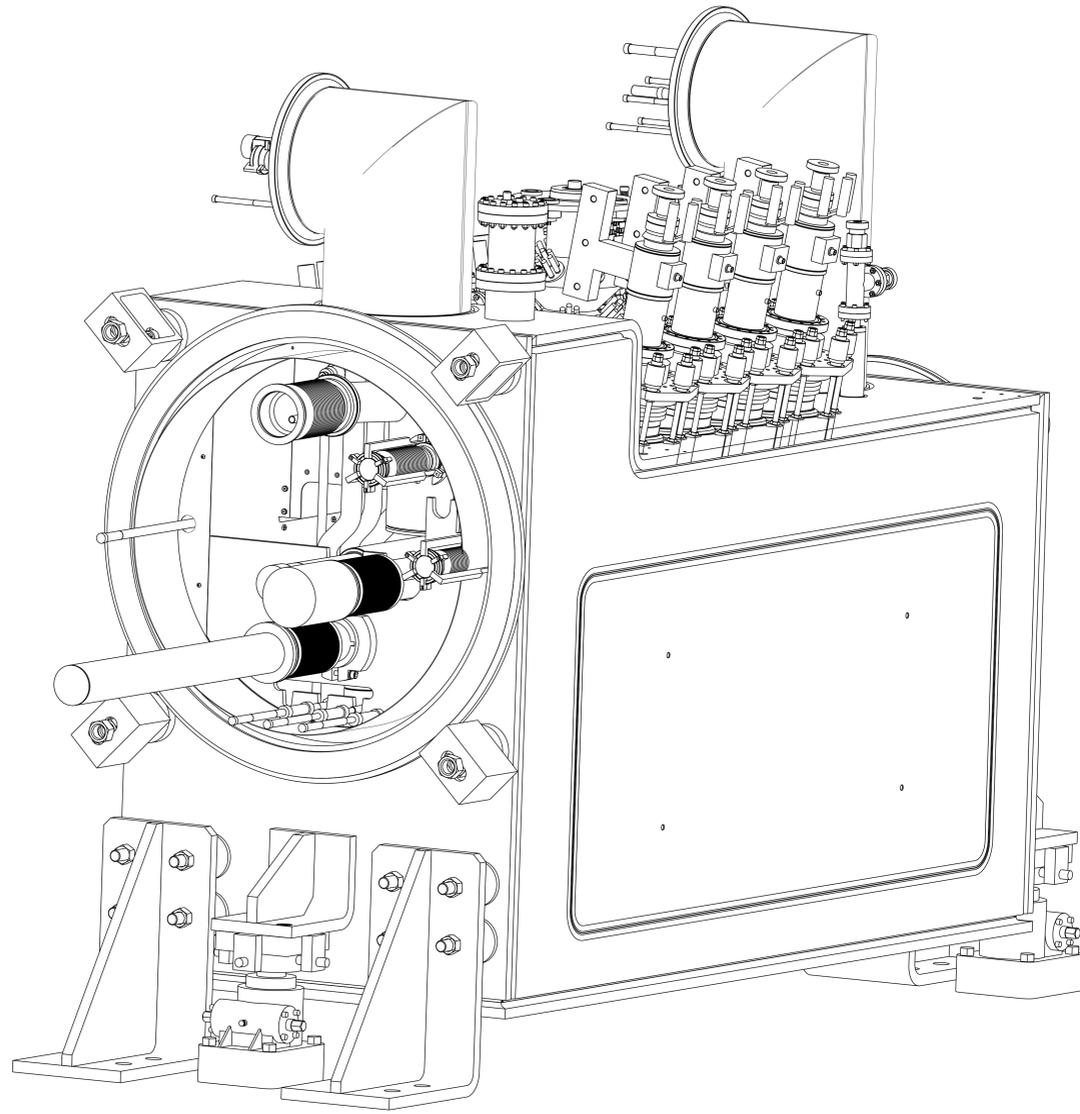


ITEM	PART NO.	REQD	DESCRIPTION	MATERIAL
39	25M802	1	LIQUID HELIUM TANK, COVER PLATE, FIXED	304L SS
38	25I119	1	LIQUID HELIUM TANK, COVER PLATE	304L SS
37	25I160	1	OUTSIDE, RIGHT SIDE PLATE	304L SS
36	25I123	1	INSIDE, RIGHT SIDE PLATE	304L SS
35	25I164	1	600 AMP, 2-LEAD CLUSTER ASSEMBLY	-
34	25I586	1	THERMAL SHIELD JUMPER, JC2	-
33	25I583	1	THERMAL SHIELD JUMPER, JC1	-
32	25I580	1	ENCLOSURE JUMPER, JC1	-
31	25I577	1	ENCLOSURE JUMPER, JC2	-
30	25I155	1	TOP PLATE WELDMENT SUBASSY IPS RIGHT	-
29	24C395	1	DFBX FEED BOX ASSY (IPS RIGHT)	-
28	-	4	HOIST RING: AMER. DRILL BUSHING #2420 LONG BAR	SS
27	25I182	3	ISR JACK	-
26	25I166	3	THRUST LOAD BUMPER WELDMENT	304L SS
23	25I171	1	DIH RELIEF VALVE ASSEMBLY	-
22	25I179	4	D3 MOUNTING BRACKET KIT	-
19	25I858	1	BASE PLATE ASSY	-
18	25I910	1	ROUGHING PORT ASSEMBLY	-
17	25I125	1	SIDE PLATE COVER	304L SS
16	25I874	1	PIPING DFBX IPS, RIGHT 24C395	-
14	25I129	1	D3 PLATE ASSY	-
13	25I339	1	HELIUM PORT RELIEF VALVE ASSEMBLY	-
12	24C353	2	600 AMP, 6 LEAD VAPOR COOLED ASSY	-
11	24C322	1	120 AMP VC LEAD MOUNTING ASSY	-
10	25I868	2	TOOLING BALL, LHC1MGAD0092	-
9	25I162	1	LHE DIAGNOSTIC ASSY	-
8	25I156	6	PIRELLI HTS LEAD KIT	-
7	25I851	1	HELIUM GUARD ASSEMBLY	-
5	25I831	1	LOX DIAGNOSTIC ASSEMBLY	-
3	25I079	1	THERMAL SHIELD ASSY, DFBXG	-

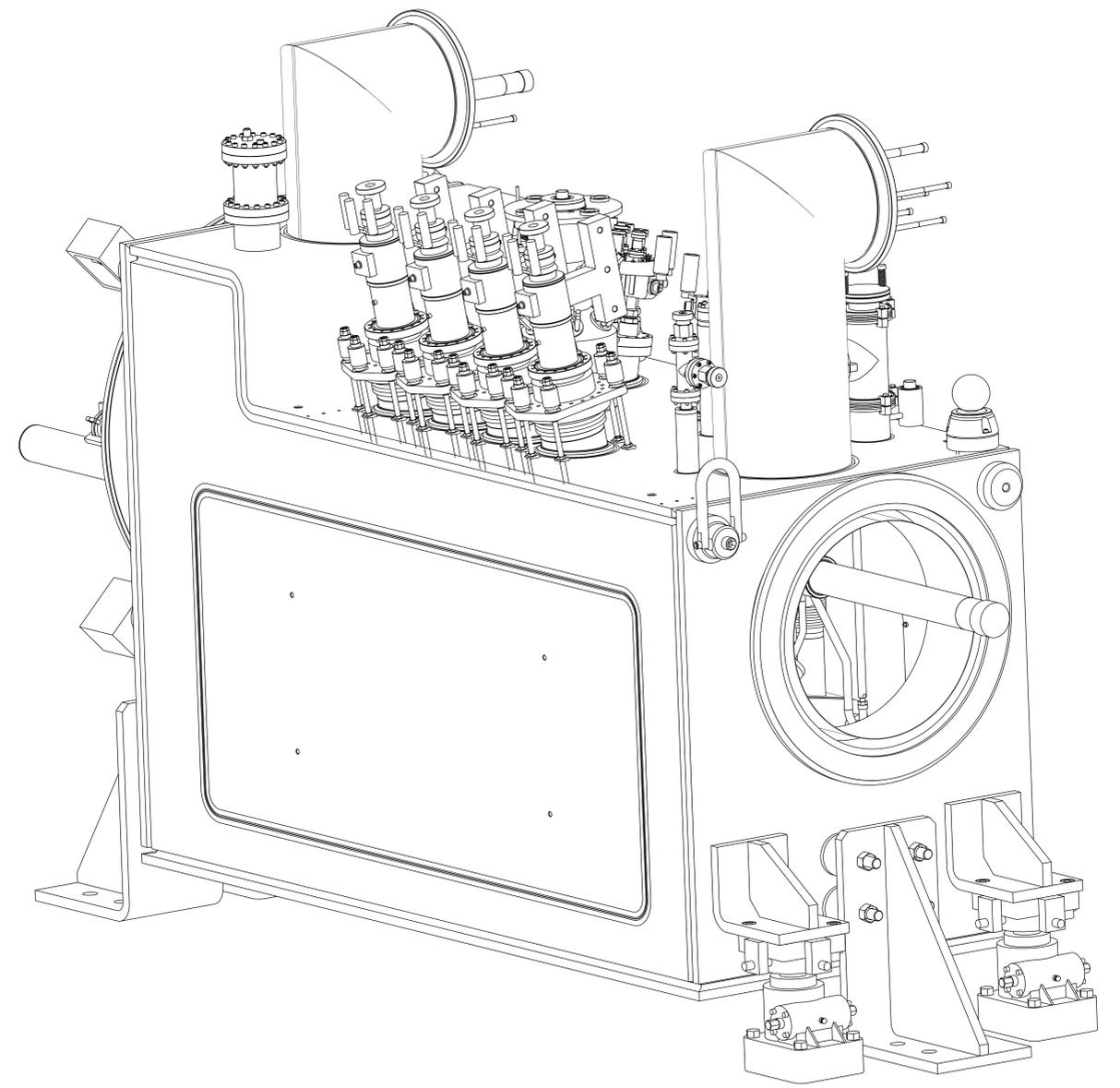
UNLESS OTHERWISE SPECIFIED TOLERANCES: X.X ± 0.1 FRACTION ± 1/64 X.XX ± 0.03 ANGLES ± 1.00° X.XXX ± 0.010 FINISH: 125 μm DO NOT SCALE PRINT THREAD ANGLES: 60° CHAMFER ENDS OF ALL SCREW THREADS 30° BREAK EDGES: 0.15 THREAD RELIEF ON MACHINED THREADS REMOVE BURRS, WELD SPATTER & LOOSE SCALE IN ACCORDANCE WITH ASME Y14.5M-10		SHOP ORDERS DATE: 03-NOV-01 TIME: 03-OCT-02 DATE: 03-OCT-02	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA BERKELEY LHC IR FEEDBOX MAJOR ASSEMBLY DFBX (IPS, RIGHT) FEED BOX ASSY, IPS (RIGHT) ASSEMBLY MICROFORMED: DWG. TYPE: SHOWN ON: SCALE: 1:3/100 SHEET 1 OF 3 SHEET NO. 24C3956 A
A JDRDPQ 10/03/02 INITIAL RELEASE REV: DWG: CHK: ZONE: DATE: CHANGES	DATE: 03-NOV-01 DATE: 03-OCT-02 DATE: 03-OCT-02		

24C3956 A 1

PRELIMINARY

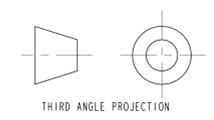


D1 END



Q3 END

DFBXG, IP8 (LEFT)



ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA BERKELEY			
LHC IR FEEDBOX MAJOR ASSEMBLY			
DFBXG (IP5, RIGHT) FEED BOX ASSY., IP5 (RIGHT)			
MICROFILMED:	DWG. TYPE:	SHOWN ON:	SCALE: 0.750
	ASSEM		SHEET 2 OF 3
PATENT CLEAR:	DESIGN ACCT. NO:	CATEGORY CODE:	DWG. NO. 24C3956
	ZSLCE2	LH2001	REV. A

24C3956 A 2

PRELIMINARY

